MCC Longview HT Addition/Renovation

PERMIT/BID DOCUMENTS and FINAL DEVELOPMENT PLAN 1

bnim

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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

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

COVER SHEET

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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. IN CASE OF CONFLICT BETWEEN REQUIREMENTS, 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 IMPLIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR EXCEPT WHERE NOTED OTHERWISE. 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 JURISDICATION IN WHICH THE WORK WILL 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 MASONRY, CAST-IN-PLACE CONCRETE, PRECAST CONCRETE, AND CONCRETE MASONRY UNIT OPENING OR COLUMN CENTERLINE. STOREFRONT AND CURTAINWALL DIMENSIONS TO FACE OF ROUGH OPENINGS INCLUDING PERIMETER JOINT. 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.
11. PRIOR TO PROCEEDING WITH WORK, COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND ROUGH-INS THROUGH SLABS, WALLS, CEILINGS, AND ROOFS FOR DUCTS, PIPES, CONDUITS, CABINETS AND EQUIPMENT.
12. VERIFY EXISTING UTILITY LOCATIONS USING STATE ONE CALL SYSTEM BEFORE CONSTRUCTION STARTS. COORDINATE NEW UTILITY LOCATIONS, CONNECTIONS, PENETRATIONS, AND SERVICE ENTRANCES WITH FINDINGS.
12. PROVIDE ACCESS DOORS FOR CONCEALED VALVES, DAMPER CONTROLS, FIRE DAMPER LINKAGE, AND ELECTRICAL JUNCTION BOXES.
13. COORDINATE MEP, AV/IT, SECURITY, AND LIFE SAFETY DEVICE/FIXTURE LOCATIONS TO AVOID CONFLICTS WITH CASEWORK, DOORS, AND OTHER TRADES.
14. 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.
15. 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.
16. INSTALL JOINT SEALANT (079200) AT EXTERIOR SIDE OF JOINTS, SEAMS, CONNECTIONS, OR OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION UNLESS NOTED OTHERWISE.
17. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES THROUGH INTERIOR GYPSUM BOARD SURFACE OF EXTERIOR WALLS WITH LATEX JOINT SEALANT (079200).
18. PROVIDE CONCEALED BLOCKING FOR ALL WALL MOUNTED ITEMS (EQUIPMENT, HANDRAILS, MILLWORK, ACCESSORIES, ETC...). BLOCKING MAY NOT BE WHOLLY SHOWN/INDICATED ON DRAWINGS. WHERE CONSTRUCTION IS OF A NONCOMBUSTIBLE TYPE PROVIDE SHEET METAL OR FIRE RETARDANT TREATED (FRT) WOOD.

Site Key

NOT TO SCALE RE: / , ,

Location Map

NOT TO SCALE RE: / , ,

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MEP	
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MEP101	SPECIFICATIONS
MEP102	SPECIFICATIONS
MEP103	SPECIFICATIONS
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DM100	DEMOLITION - FLOOR PLAN - LEVEL 1 & 2 - MECHANICAL
M100	PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - MECHANICAL
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PLUMBING	
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E200	PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - LIGHTING
E300	PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - SYSTEMS
E400	ELECTRICAL DETAILS
E500	ELECTRICAL SCHEDULES
E501	ELECTRICAL SCHEDULES, GEN NOTES & SYMBOLS

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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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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:
BNIM
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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: 1
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 1

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:	(1 – 0.25) x 30/30 = 0.75, or 75%.
	23,000 x 0.75 + 23,000 = **40,250 GSF** 1
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.

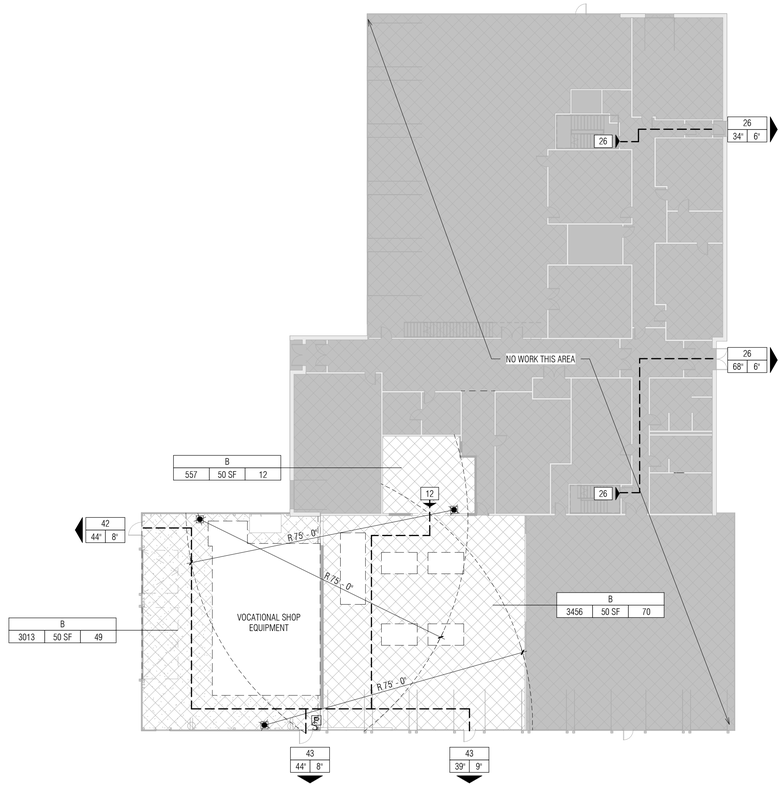
Active Fire Safety Features (CONFIRM WITH LANKFORD)
Automatic Wet Sprinkler System - per NFPA 13
Manual Dry Standpipe System - per NFPA 14 (exterior only)
Fire Alarm System (Emergency Voice Alarm Communication) - per NFPA 72
Fire Extinguishers - per NFPA 10
Exit Signs - along means of egress except at 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) 1

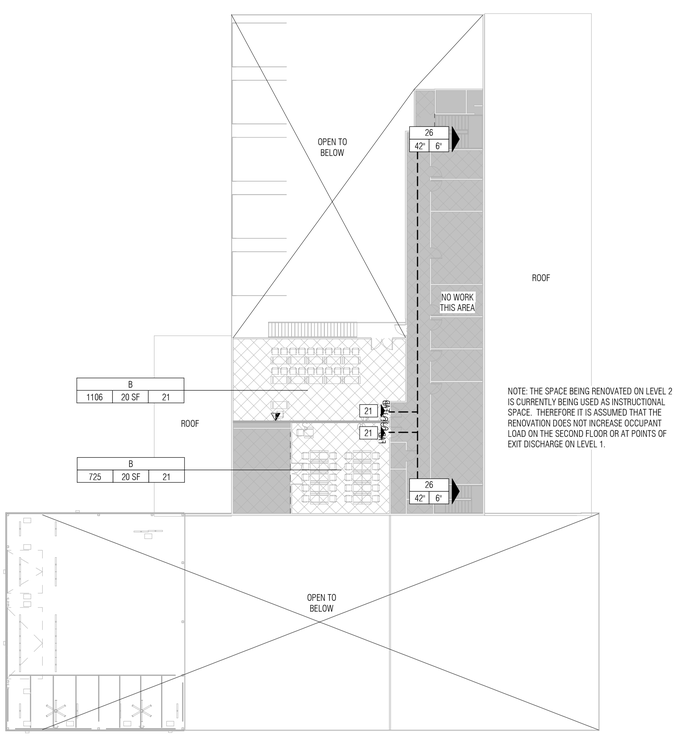
Total Constructed Area	20,990 sf
Total Land Area	4,744,043 sf
Floor Area Ratio	0.004

Classrooms in Building

Existing	6
Proposed	7



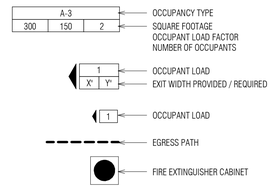
1 Level 1 Life Safety Plan
1" = 20'-0" RE: 1/0-A200
0 5 10 20 40



NOTE: THE SPACE BEING RENOVATED ON LEVEL 2 IS CURRENTLY BEING USED AS INSTRUCTIONAL SPACE. THEREFORE IT IS ASSUMED THAT THE RENOVATION DOES NOT INCREASE OCCUPANT LOAD ON THE SECOND FLOOR OR AT POINTS OF EXIT DISCHARGE ON LEVEL 1.

2 Level 2 Life Safety Plan
1" = 20'-0" RE: 1/0-A200
0 5 10 20 40

Life Safety Symbols



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CODE REVIEW DATA, LIFE SAFETY PLANS

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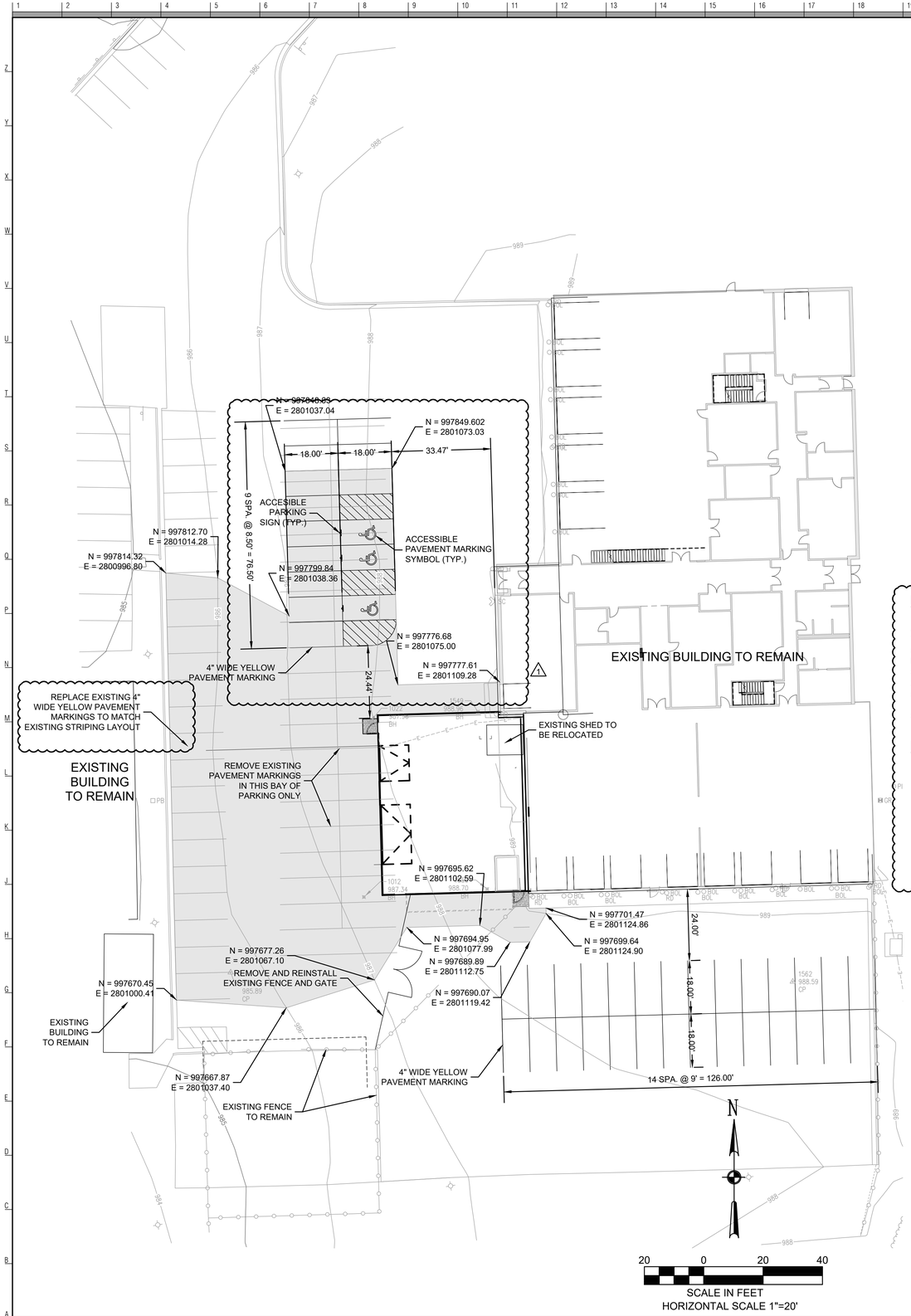

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
   A. ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL. 1
2. UTILITY LOCATIONS ARE TAKEN FROM UTILITY COMPANY RECORDS. THEY ARE APPROXIMATE ONLY AND DO NOT CONSTITUTE ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION AND SHALL COORDINATE ALL WORK WITH THE APPROPRIATE UTILITY COMPANIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING FACILITIES DESIGNATED TO REMAIN SUCH AS CURBING, PAVEMENT, SEWERS AND UTILITIES. ANY DAMAGE DONE TO THE ABOVE FACILITIES BY THE CONTRACTOR'S PERSONNEL OR EQUIPMENT SHALL BE REPAIRED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING SEWERS, UTILITIES AND ACCESS ROADWAYS DURING ALL PHASES OF CONSTRUCTION.
5. PROTECT EXISTING UTILITIES THAT ARE TO REMAIN AT ALL TIMES. FOR COORDINATION REFER TO "UTILITY SITE PLANS" AND "SPECIFICATIONS", THIS CONTRACT.
6. SAVE AND PROTECT ALL EXISTING TREES THAT ARE DESIGNATED TO REMAIN ("S") DURING ALL PHASES OF THE CONSTRUCTION.
7. REMOVAL AND DISPOSAL OF EXISTING TREES SHALL COMPLY WITH ALL REGULATIONS OF THE CITY OF LEE'S SUMMIT, MISSOURI.
8. THE CONTRACTOR SHALL INFORM THE METROPOLITAN COMMUNITY COLLEGE FACILITIES DEPARTMENT AT LEAST ONE WEEK PRIOR TO ANY STREET CLOSURE.
9. THE CONTRACTOR SHALL ESTABLISH ALL HORIZONTAL AND VERTICAL CONTROL IN CONFORMANCE WITH THE PLANS. VARIATIONS WILL REQUIRE ADVANCE APPROVAL IN WRITING FROM THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FEES AND OBTAINING ALL NECESSARY PERMITS IN ACCORDANCE WITH THE ORDINANCES OF THE CITY OF LEE'S SUMMIT, MISSOURI.
11. PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.
12. ALL STREET CUT RESTORATION SHALL BE IN CONFORMANCE WITH THE CITY OF LEE'S SUMMIT, MO. STANDARDS AND ENGINEER'S APPROVAL.
13. AT NO TIME SHALL ANY ACCESS TO OCCUPIED BUILDINGS BE CLOSED WITHOUT WRITTEN STATEMENTS FROM THE METROPOLITAN COMMUNITY COLLEGE FACILITIES DEPARTMENT AND THE ENGINEER'S APPROVAL. 1
14. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND MAINTENANCE (MARKING, SIGNS & DEVICES FOR DETOURS & LOCAL TRAFFIC CONTROLS) IN ACCORDANCE WITH AND APPROVAL OF THE STREETS AND TRAFFIC DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN A CITY APPROVED TRAFFIC (DETOUR) CONTROL PLAN PRIOR TO BEGINNING CONSTRUCTION.
15. THE CONTRACTOR MUST REMOVE, AT THEIR COST, ANY UNSUITABLE SUBSURFACE SOIL WHICH WOULD NOT BE ABLE TO SUPPORT ANY PROPOSED PUBLIC IMPROVEMENT. BACKFILL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APWA SECTIONS 2100 AND 2201 ENTITLED "GRADING AND SITE PREPARATION" AND "SUBGRADE PREPARATION" RESPECTIVELY.

PAVEMENT LEGEND

- 1 1/2" TYPE 5-01 ASPHALT CEMENT CONCRETE SURFACE COURSE
  5" TYPE 1-01 ASPHALT CEMENT CONCRETE BASE COURSE
  6" MODOT TYPE V AGGREGATE BASE
  6" COMPACTED SUBGRADE 1
- 4" TYPE SW-1 RESIDENTIAL SIDEWALK
  6" COMPACTED SUBGRADE

LEGAL DESCRIPTION:

A PARCEL OF LAND IN SECTION -9 TOWNSHPP-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 2353.78' 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 MN 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 OFBEGINNING.

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 62 STANDARD SPACES AND 3 ACCESSIBLE SPACES 1

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1	ADDENDUM 3	25 OCT 2021

Key Plan

Seal

STATE OF MISSOURI — HAGOS ERMIAS ANDEBRHAN — NUMBER PE-2004011822 — PROFESSIONAL ENGINEER

11/29/21
HAGOS E. ANDEBRHAN - PROFESSIONAL ENGINEER
MO# E-2004011822

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

SITE LAYOUT PLAN

C001

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GRADING NOTES:

1. THE SIZE, LOCATION AND NATURE OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS HAS BEEN OBTAINED FROM INFORMATION PROVIDED BY THE UTILITY COMPANIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ACTIVITIES WITH THE APPLICABLE UTILITIES, AND FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING UNFORESEEN AND UNKNOWN UTILITIES, PRIOR TO CONSTRUCTION. UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. UNLESS OTHERWISE INDICATED IN PLANS OR TECHNICAL SPECIFICATIONS, ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS AND GEOTECHNICAL REPORTS:

   A. "STANDARD SPECIFICATIONS AND DESIGN CRITERIA" AS PREPARED BY THE AMERICAN PUBLIC WORKS ASSOCIATION AND AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MISSOURI.

   B. "EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS" AS ADOPTED BY CITY ORDINANCE, AND AS APPROVED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.

   C. LEE'S SUMMIT, MISSOURI STANDARD DRAWINGS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION ACTIVITIES.

4. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACCESS TO THE SITE TO ONE LOCATION, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.

5. THE CONTRACTOR SHALL PROMPTLY CLEAN PUBLIC ROADWAYS OF ALL MUD AND CONSTRUCTION DEBRIS RESULTING OF CONSTRUCTION ACTIVITIES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD STAKING.

7. BOLD CONTOUR LINES AND BOLD SPOT ELEVATIONS REPRESENT FINISHED GRADE AT PROJECT COMPLETION, (I.E. THE TOP OF FINISHED GRADE, TOP OF PAVEMENT OR TOP OF CURB).

8. ALL SPOT ELEVATIONS ARE PVMT. ELEVATIONS UNLESS NOTED OTHERWISE. SPOT ELEVATIONS FOLLOWED BY HP INDICATE HIGH POINTS. SPOT ELEVATIONS FOLLOWED BY TC INDICATES TOP OF CURB ELEVATION. SPOT ELEVATIONS NOTED TC = P INDICATE THAT TOP OF CURB ELEVATION EQUALS PAVEMENT ELEVATION.

9. SPOT ELEVATION CALL OUTS MAY BE TRUNCATED (i.e 55.50 MEANS 955.50).

10. ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.

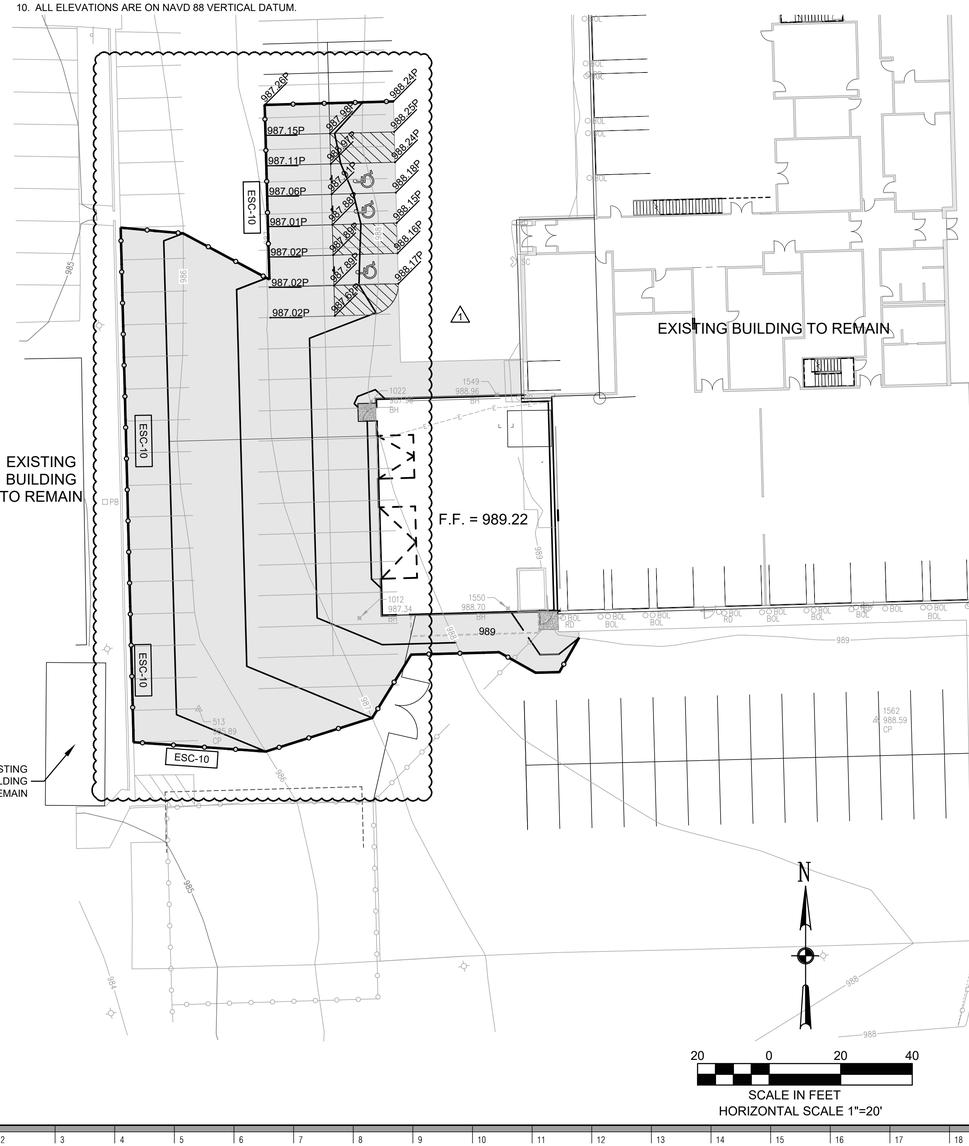
LEGEND

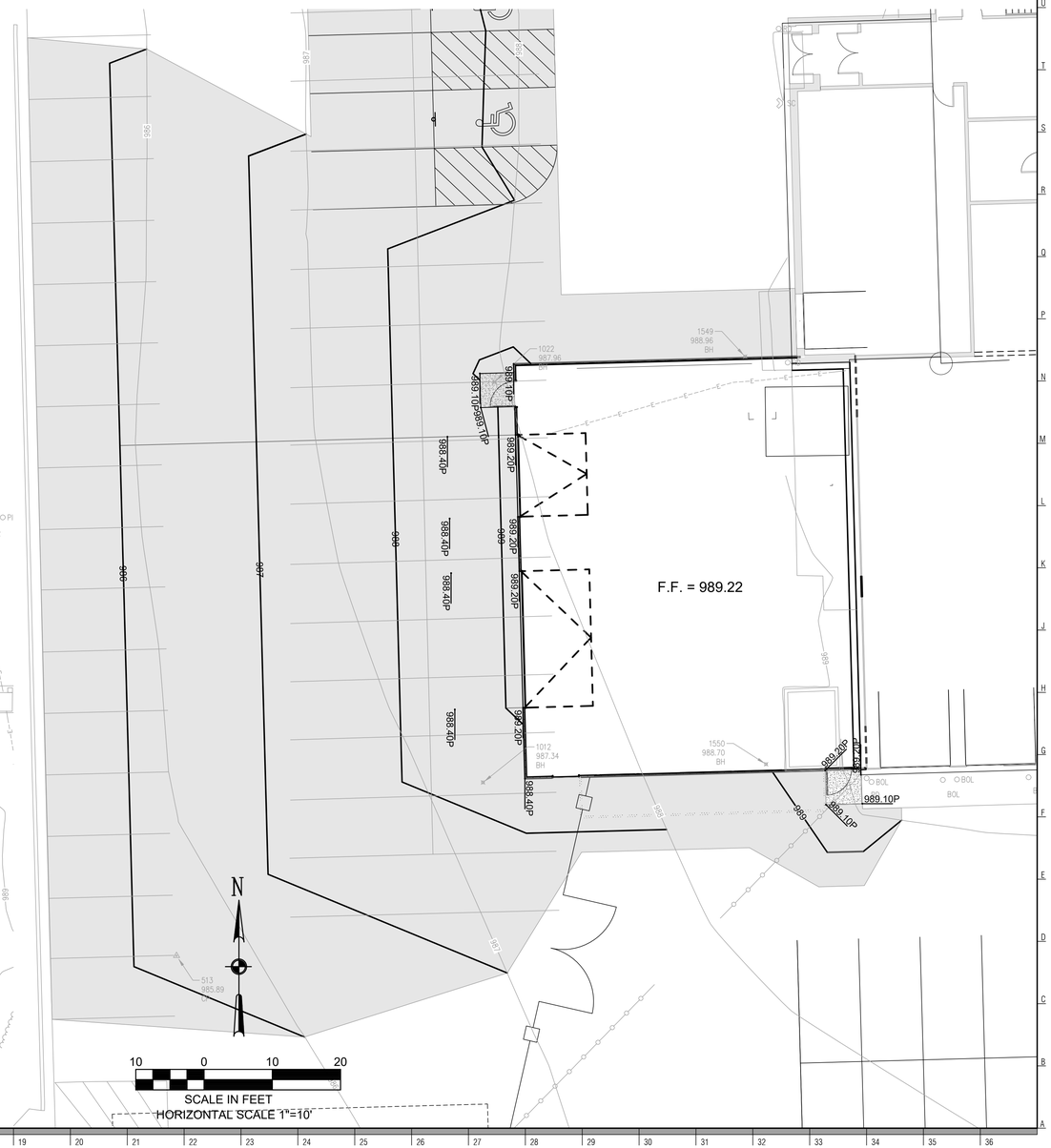
TC	DENOTES TOP OF CURB ELEVATION
P	DENOTES TOP OF PAVEMENT ELEVATION
TC=P	DENOTES TOP OF CURB ELEVATION AND TOP OF PAVEMENT ELEVATION ARE EQUAL
T.O.W.	DENOTES TOP OF RETAINING WALL ELEVATION
TS	DENOTES TOP OF GARAGE SLAB ELEVATION
WL	DENOTES WIND LIP ELEVATION OF GARAGE

SEDIMENT FENCE — ESC-10

SITE STABILIZATION

ALL DISTURBED AREAS SHALL BE PREPPED FOR SEEDING/SODDING PER KCMO/APWA 2406, APPLICATION OF SEED /SOD SHALL BE DONE IN ACCORDANCE WITH KCMO/APWA 2406.4. THE SITE DISTURBANCE PERMIT SHALL BE MAINTAINED IN AN "OPEN" STATUS UNTIL FINAL ACCEPTANCE PER KCMO/APWA 2407.





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MCC Longview HT Addition/Renovation

500 SW Longview Road
Lee's Summit, MO 64081

Project No: 20008.0

PERMIT/BID DOCUMENTS

Issued: August 23, 2021

Rev. #	Description	Date Issued
1	ADDENDUM 3	25 OCT 2021

Key Plan

Seal

STATE OF MISSOURI — HAGOS ERMIAS ANDEBRHAN — NUMBER PE-2004011822 — REGISTERED PROFESSIONAL ENGINEER

11/29/21

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

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

SITE GRADING PLAN

C002

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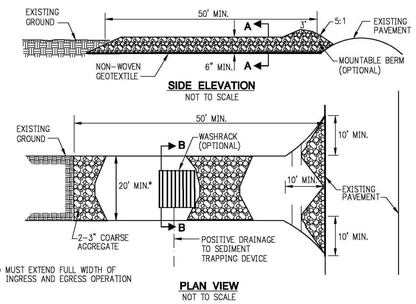
TEMPORARY CONSTRUCTION ENTRANCE



SOURCE: MODIFIED FROM VA. DCR, 1992

TEMPORARY CONSTRCUTION ENTRANCE PAD NOTES:

A) INSTALLATION:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. IF SLOPE TOWARDS THE PUBLIC ROAD EXCEEDS 2%, CONSTRUCT A 6-TO 8-INCH HIGH RIDGE WITH 3H:1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
4. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS.
5. PLACE STONE TO DIMENSIONS AND GRADE AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE.
7. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.

B) TROUBLESHOOTING:

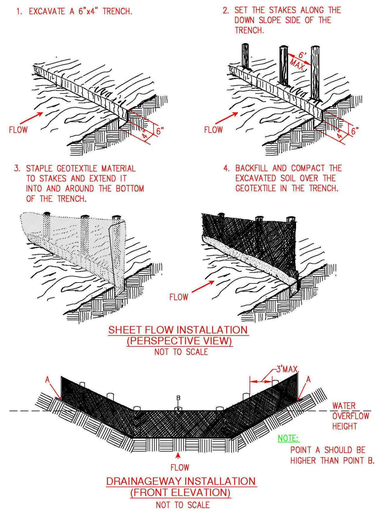
1. CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
   a. INADEQUATE RUNOFF CONTROL TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROAD – INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES.
   b. SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL – INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC.
   c. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC – EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY.

C) INSPECTION AND MAINTENANCE:

1. INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER 1/2-INCH OR GREATER STORM EVENTS.
2. RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN 2-AND 3-INCH STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.
5. REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED.

AMERICAN PUBLIC WORKS ASSOCIATION	
APWA KANSAS CITY METROPOLITAN CHAPTER	
TEMPORARY CONSTRUCTION ENTRANCE	STANDARD DRAWING NUMBER: ESC-01 ADOPTED:

SEDIMENT FENCE



SOURCE: MODIFIED FROM VA. DCR, 1992

SEDIMENT FENCE NOTES:

A) INSTALLATION:

1. THE HEIGHT OF SEDIMENT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT EXCEED 34 INCHES ABOVE THE GROUND SURFACE.
2. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE UNAVOIDABLE, FILTER CLOTH SHALL BE SECURELY SPLICED TOGETHER ONLY AT SUPPORT POSTS, WITH A MAX 6-INCH OVERLAP.
3. DIG A TRENCH AT LEAST 6 INCHES DEEP AND 4 INCHES WIDE ALONG THE FENCE ALIGNMENT.
4. DRIVE POSTS AT LEAST 24 INCHES INTO THE GROUND ON THE DOWNSLOPE SIDE OF THE TRENCH. SPACE POSTS A MAXIMUM OF 6 FEET APART.
5. EXTRA-STRENGTH SEDIMENT FENCE FABRIC SHALL BE USED. POSTS FOR THIS TYPE OF FABRIC SHALL BE PLACED A MAXIMUM OF 6 FEET APART. THE SEDIMENT FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING A MINIMUM OF ONE INCH LONG, HEAVY-DUTY WIRE STAPLES OR TIE-WIRES, AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. PLACE THE BOTTOM 1 FOOT OF FABRIC IN THE MINIMUM-OF-6-INCH DEEP TRENCH, LAPPING TOWARD THE UPSLOPE SIDE. BACKFILL WITH COMPACTED EARTH OR GRAVEL.
7. IF A SEDIMENT FENCE IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, IT MUST BE OF SUFFICIENT LENGTH TO ELIMINATE ENDFLOW, AND THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE, PLACED ON A CONTOUR, WITH THE ENDS ORIENTED UPSLOPE. EXTRA-STRENGTH SEDIMENT FABRIC SHALL BE USED WITH A MAXIMUM 3-FOOT SPACING OF POSTS.
8. TO REDUCE MAINTENANCE, EXCAVATE A SHALLOW SEDIMENT STORAGE AREA IN THE UPSLOPE SIDE OF THE FENCE. PROVIDE GOOD ACCESS IN AREAS OF HEAVY SEDIMENTATION FOR CLEAN OUT AND MAINTENANCE.
9. SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

B) TROUBLESHOOTING:

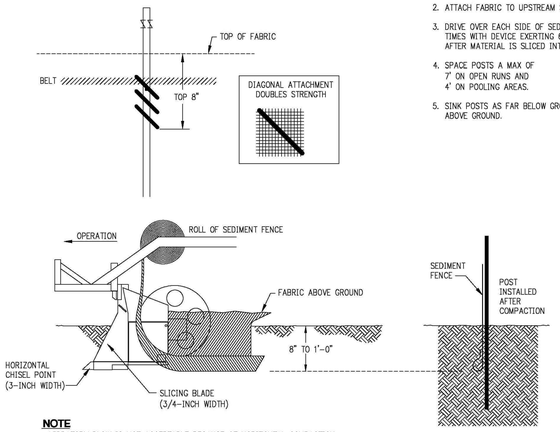
1. DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES, BEFORE FENCE INSTALLATION SO UTILITIES ARE NOT DISTURBED.
2. GRADE ALIGNMENT OF FENCE AS NEEDED TO PROVIDE A BROAD, NEARLY LEVEL AREA UPSTREAM OF FENCE TO ALLOW SEDIMENT COLLECTION AREA.

C) INSPECTION MAINTENANCE:

1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. AVOID DAMAGING OR UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT ACCUMULATION SHOULD NOT EXCEED 1/2 THE HEIGHT OF THE FENCE.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY AND COMPLETELY STABILIZED.

AMERICAN PUBLIC WORKS ASSOCIATION	
APWA KANSAS CITY METROPOLITAN CHAPTER	
SEDIMENT FENCE	STANDARD DRAWING NUMBER: ESC-10 ADOPTED:

SEDIMENT FENCE INSTALLATION SLICING METHOD



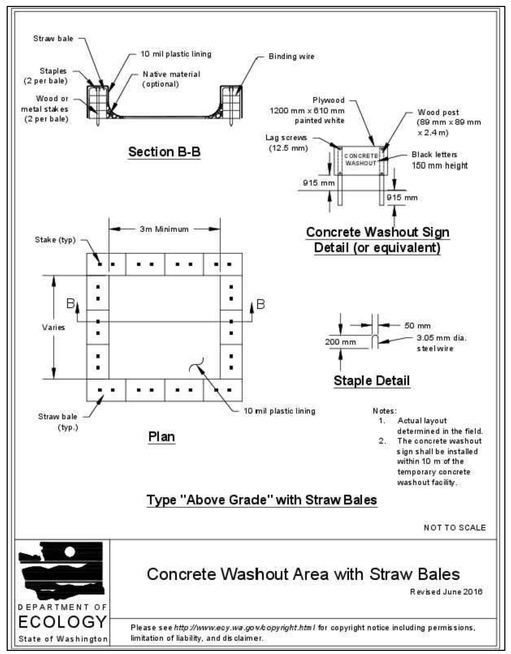
NOTE
VIBRATORY PLOW IS NOT ACCEPTABLE BECAUSE OF HORIZONTAL COMPACTION.

SOURCE: TOM CARPENTER, 2000

SEDIMENT FENCE INSTALLATION SLICING METHOD NOTES:

1. LIMIT PONDING HEIGHT TO 24"
2. ATTACH FABRIC TO UPSTREAM SIDE OF POST.
3. DRIVE OVER EACH SIDE OF SEDIMENT FENCE 2 TO 4 TIMES WITH DEVICE EXERTING 60 PSI OR GREATER AFTER MATERIAL IS SLICED INTO THE GROUND.
4. SPACE POSTS A MAX OF 7' ON OPEN RUNS AND 4' ON POOLING AREAS.
5. SINK POSTS AS FAR BELOW GROUND AS FABRIC ABOVE GROUND.

AMERICAN PUBLIC WORKS ASSOCIATION	
APWA KANSAS CITY METROPOLITAN CHAPTER	
SEDIMENT FENCE INSTALLATION SLICING METHOD	STANDARD DRAWING NUMBER: ESC-11 ADOPTED:



DEPARTMENT OF ECOLOGY
State of Washington

Concrete Washout Area with Straw Bales

Revised June 2016

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Seal

11/29/21

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MO# E-2004011822

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Licensee Number: 000377

EROSION CONTROL DETAILS

C003

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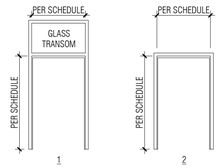
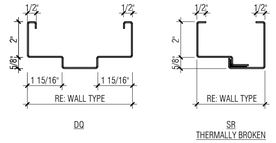
DOOR SCHEDULE

Mark	DOOR Width	Type	DOOR Height	Thickness	Fire Rating	Panel Material	FRAME Material	Frame Profile	Frame Type	Hardware Set	Remarks
1/101	3' - 0"	N	7' - 0"	1 3/4"	-		HM	DQ	2	02	
1/101B	3' - 8 1/2"	FG	8' - 0"	1 3/4"	N/A	HM	HM	SR	1	01	
2/101B	3' - 8 1/2"	FG	8' - 0"	1 3/4"	N/A	HM	HM	SR	1	01	
3/101B	12' - 0"	S	10' - 0"	1 3/4"	N/A	ALUM / GL	-			-	Overhead Panel Door
4/101B	20' - 0"	S	10' - 0"	1 3/4"	N/A	ALUM / GL	-			-	Overhead Panel Door

Frame Types

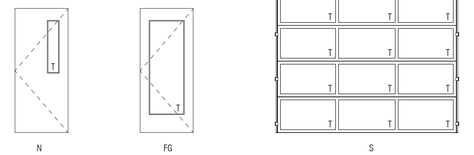


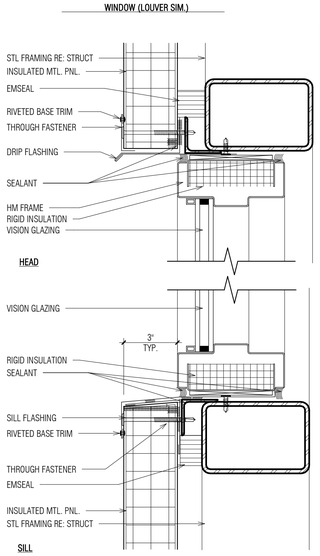
Frame Profiles

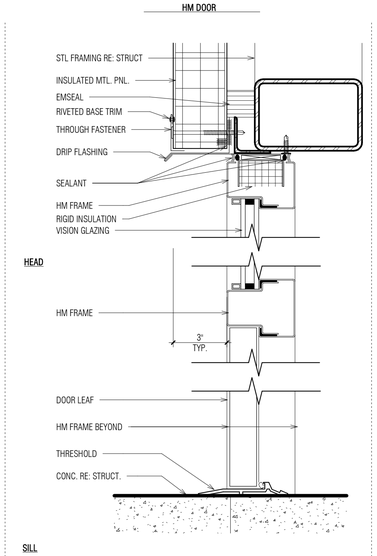


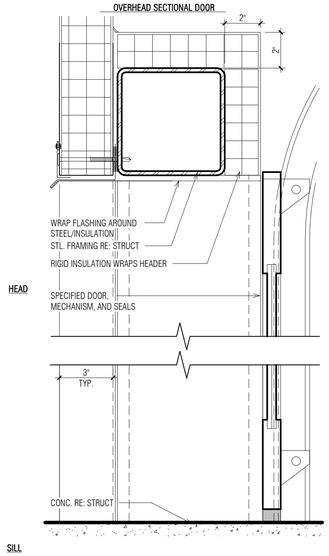
Door Types

T: FULLY TEMPERED GLAZING







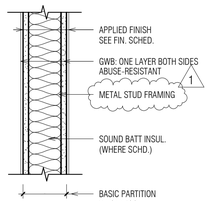


A1 Opening Details

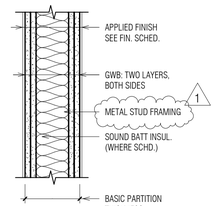
3" = 1'-0" RE: / , ,

PARTITION SYSTEM

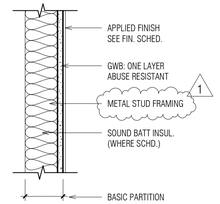
PARTITION IDENTIFICATION PLAN SYMBOL	BASIC PARTITION THICKNESS	FIRE RATING (HRS)	FIRE TEST NUMBER	ACOUSTICAL RATING (STC)	ACOUSTICAL TEST NUMBER	INSULATION THICKNESS	PARTITION CORE: STUD/FURRING SIZE	PARTITION CORE: FURRING TYPE	PARTITION CORE: STUD SPACING	REMARKS
Partition System A										
A3	4 7/8"	N/A	N/A	N/A	N/A	-	3 5/8"	N/A	16" O.C.	TWO-SIDED WALL AT WELDING AREA
A5	7 1/4"	N/A	N/A	N/A	N/A	-	6"	N/A	16" O.C.	INFILL WALL
Partition System C										
C3	6 1/8"	N/A	N/A	53	USG-170104	3 1/2"	3 5/8"	N/A	16" O.C.	CLASSROOM DEMISING WALL
Partition System D										
D6	6 5/8"	N/A	N/A	N/A	N/A	-	6"	N/A	16" O.C.	LINER WALL AT EXISTING WEST WALL
Partition System M										
M1	1 1/2"	N/A	N/A	N/A	N/A	-	7/8"	HAT	16" O.C.	LINER WALL AT WELDING AREA



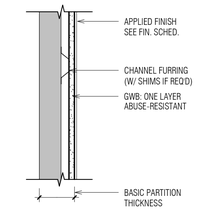
PARTITION SYSTEM A



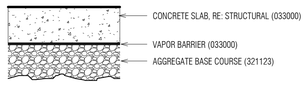
PARTITION SYSTEM C



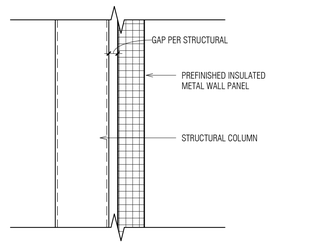
PARTITION SYSTEM D



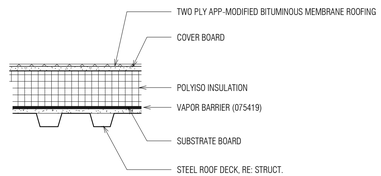
PARTITION SYSTEM M



FL1 - CONCRETE SLAB ON GRADE



EW1 - INSULATED METAL WALL PANEL



RA1 - MODIFIED BIT ROOF ASSEMBLY

DOOR SCHEDULE GENERAL NOTES

1. REFER TO FINISH PLANS FOR KEYED LEGEND OF FINISH AND MATERIAL ABBREVIATIONS.
2. REFER TO REMARKS COLUMN AND SPECIFICATION SECTION 088000 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: SW=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 UNDERCUT FOR RESTROOM DOORS EXCEPT WHERE DOOR LOUVERS ARE INDICATED. SEE MECHANICAL DRAWINGS.

PARTITION SYSTEM GENERAL NOTES

1. NOTES APPLY TO ALL PARTITION SYSTEMS.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
3. REFER TO CODE ANALYSIS PLANS AND SECTIONS FOR REQUIRED FIRE-RATINGS.
4. VERTICAL PARTITION CAPITAL LETTER DESIGNIATIONS (A, B, C, D, ETC.). REFER TO THE TYPES OF ASSEMBLY. NUMBER REFERENCES REFER TO THE DEPTH OF FRAMING AT EACH ASSEMBLY TYPE. METAL FRAMING: 1=1-5/8", 2=2-1/2", 3=3-5/8", ETC.; WOOD FRAMING: 0=0-3/4", 1=0-3/4"; 2=1-1/2", 4=3-1/2", ETC. LOWERCASE LETTER SUFFIX MODIFIER DESIGNATIONS REFER TO ACOUSTICAL AND FIRE-RATED ASSEMBLIES. EXAMPLE: A3 - TYPE 'A' ASSEMBLY WITH 3-5/8" METAL FRAMING; A3a - SAME AS PREVIOUS WITH ACOUSTICAL INSULATION AND ACOUSTICAL SEALANT; A3l - SAME AS PREVIOUS WITH FIRE RATING SHOWN ON CODE ANALYSIS PLANS. NOTE ASSEMBLIES CAN BE BOTH ACOUSTICAL (a) AND FIRE-RATED (l).
5. ADDITIONAL TRACK FRAMING AT SLIP-TYPE HEAD JOINTS AND FIRESTOP (092216) (092116.23) NOT SHOWN FOR CLARITY ON PARTITION TYPE DIAGRAMS. PROVIDE DEFLECTION TRACKS AS SPECIFIED AND/OR AS INDICATED ON DRAWINGS.
6. PROVIDE ALL NECESSARY BRACING TO STRUCTURE FOR INTERIOR PARTITIONS.
7. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES OF IN INTERIOR GYPSUM BOARD AND STRUCTURE AT EXTERIOR WALLS WITH LATEX ACOUSTICAL JOINT SEALANT (079200).
8. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES OF NONRATED PARTITIONS WITH LATEX ACOUSTICAL JOINT SEALANT (079200).
9. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES OF STC- RATED PARTITIONS WITH LATEX ACOUSTICAL JOINT SEALANT (079200). PROVIDE TWO CONTINUOUS PARALLEL BEADS OF LATEX ACOUSTICAL JOINT SEALANT BENEATH RUNNER TRACKS.
10. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES OF FIRE-RATED PARTITIONS WITH PAINTABLE FIRE-RESISITIVE SYSTEMS (078413) AND (078446) TO MATCH PARTITION RATING.
11. PROVIDE 3" STENCILED LETTERING AT TOP OF EVERY FIRE-RATED WALL AT 30'-0" ON CENTER MAXIMUM AND WITHIN 15'-0" OF END OF EACH WALL WHERE WALL IS HIDDEN ABOVE CEILINGS OR BELOW ACCESS FLOOR.
12. PROVIDE BOND BEAM (042000) AND 4" X 4" X 5/16" STEEL ANGLE KICKER BRACING (055000) AT TOP OF PARTIAL HEIGHT CMU WALLS AT 4'-0" O.C. WELD KICKER TO BULB TEE OR ANCHOR TO BOND BEAM WITH EXPANSION ANCHOR (055000) AND ANCHOR TO STRUCTURE ABOVE (OR AT SPACING INDICATED PER STRUCTURAL DRAWINGS) UNLESS NOTED OTHERWISE.
13. PROVIDE PARTITION TOP ANCHOR (042000) AT TOP OF NON-FIRE-RATED FULL-HEIGHT CMU PARTITIONS UNLESS NOTED OTHERWISE; PROVIDE DEFLECTION TRACK AT FIRE-RATED CMU PARTITIONS PER UL ASSEMBLY.
14. RUN GYPSUM BOARD PANELS (092900) ON STC-RATED AND/OR FIRE-RESISTIVE PARTITIONS CONTINUOUS THROUGH INTERSECTIONS WITH NON-RATED PARTITIONS.
15. 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. HORIZONTAL AT FURRED OUT PARTITIONS GREATER THAN 12'-0" IN HEIGHT. 15. PARTITION FACE ALIGNMENT - WHERE DIFFERENT PARTITION TYPES MEET AT LOCATIONS OTHER THAN CORNERS, MAINTAIN A FLUSH SURFACE CONTINUOUS BETWEEN PARTITIONS, 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 STRUCTURE/DECK ABOVE) UNLESS NOTED OTHERWISE.

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1	Addendum #3	10/27/21

Seal

Jeremy B Kahm - Architect
MO# A-2010035449

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

DOORS, HORIZONTAL AND VERTICAL ASSEMBLIES

A010

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Finish Legend

CP1 SEALED CONCRETE
LOCATION: FLOORS THROUGHOUT, U.N.O.

AC1 ACOUSTICAL CEILING PANELS (095113)
MFG: ARMSTRONG
PANEL PRODUCT/COLOR: ULTIMA 2X2 TEGULAR/WHITE
GRID/COLOR: 9/16" SUPRAFINE/WHITE
LOCATION: CLASSROOMS

RB1 RUBBER BASE (096513)
MFG/PRODUCT: JOHNSONITE/2-1/2" COIL, STRAIGHT AT CARPET, COVE AT HARD SURFACE FLOORS
COLOR: BURNT UMBER
LOCATION: GYPSUM BD WALLS ONLY, THROUGHOUT, U.N.O.

LV1 LUXURY VINYL TILE (096800)
MFG: TARKETT
PRODUCT/COLOR: ID LATITUDE HEARTHSTONE 7242 18X18
INSTALLATION METHOD: ASHLAR
LOCATION: CLASSROOMS

HP1 HIGH PERFORMANCE COATING (099100)
LOCATION: HM DOORS AND FRAMES

HP2 HIGH PERFORMANCE COATING (099100)
LOCATION: DRYFALL PAINT SYSTEM

HP3 HIGH PERFORMANCE COATING (099100)
LOCATION: PRIMARY STEEL STRUCTURE

PA1 PAINT SYSTEM (099100)
COLOR: TO MATCH SHERWIN WILLIAMS 7757 HIGH REFLECTIVE WHITE
LOCATION: GYPSUM BOARD WALLS

PA2 PAINT SYSTEM (099100)
COLOR: TO MATCH SHERWIN WILLIAMS 7015 REPOSE GRAY
LOCATION: GYPSUM BOARD WALLS

PA3 PAINT SYSTEM (099100)
COLOR: TO MATCH SHERWIN WILLIAMS 6966 BLUEBLOOD
LOCATION: GYPSUM BOARD WALLS; CLASSROOM BACK WALL

SF1 SPRAY-APPLIED FIREPROOFING
ISOLATEK CAFCO BLAZE-SHIELD II OR EQUAL
1-HOUR MIN. RATING

FINISH LEGEND AND SCHEDULE COMMENTS:

1.. U.N.O. PAINT FINISH TO BE:
EGGSHELL AT WALLS
FLAT AT GYP BD CEILINGS

2. RB1 AT GYP WALLS ONLY

ROOM FINISH TAG

Finish Schedule

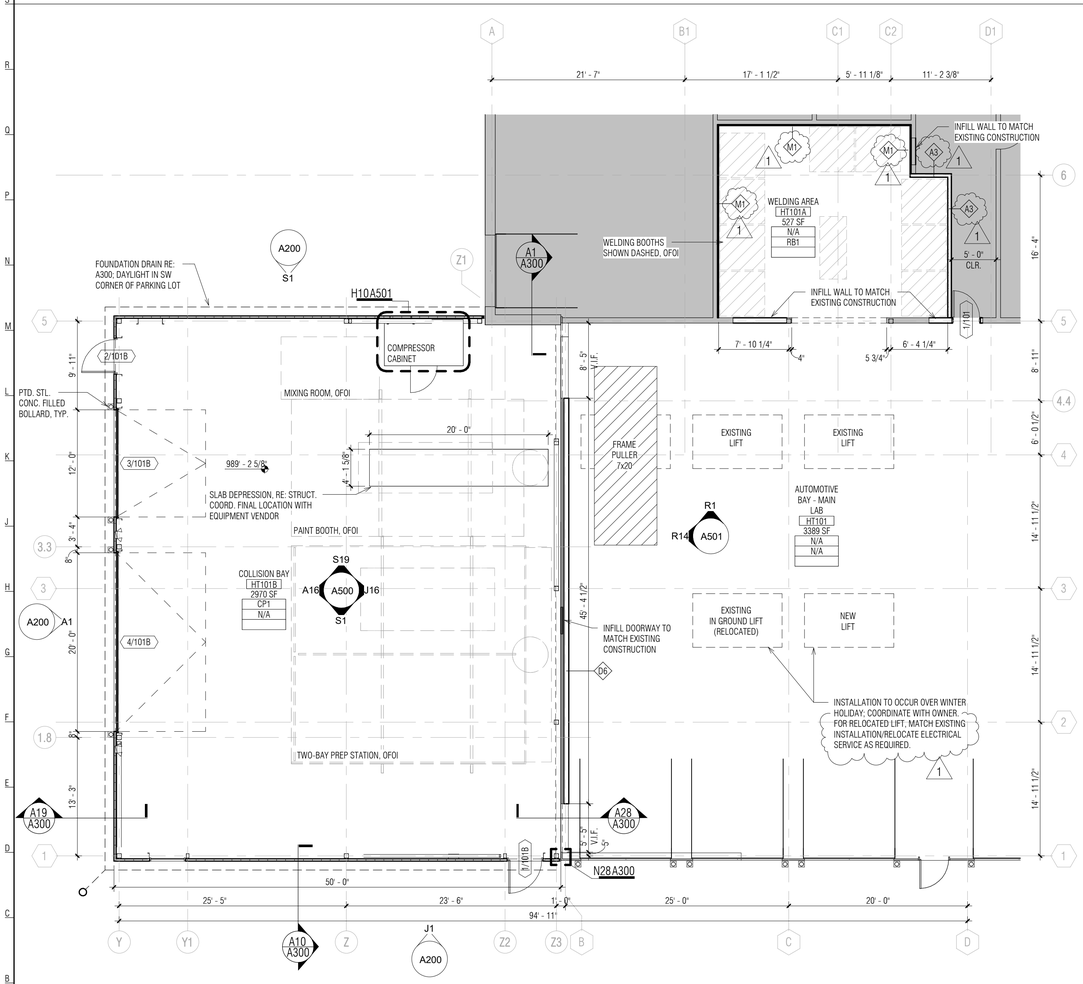
Room Name	Room Number	Floor Finish	Base Finish	North Wall	East Wall	South Wall	West Wall	Ceiling Finish	Comments
AUTOMOTIVE BAY - MAIN LAB	HT101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXISTING FINISHES TO REMAIN
WELDING AREA	HT101A	N/A	RB1	PA1	PA1	PA1	PA1	HP2, SF1	SPRAY-APPLIED FIREPROOFING AT PRIMARY STRUCTURE
COLLISION BAY	HT101B	CP1	N/A	HP3	HP3	HP3	HP3	HP2	
CLASSROOM	HT202	LV1	RB1	PA3	PA2	PA2	PA2	AC1	
COMPUTER ROOM	HT203	LV1	RB1	PA2	PA2	PA3	PA2	AC1	

PLAN GENERAL NOTES

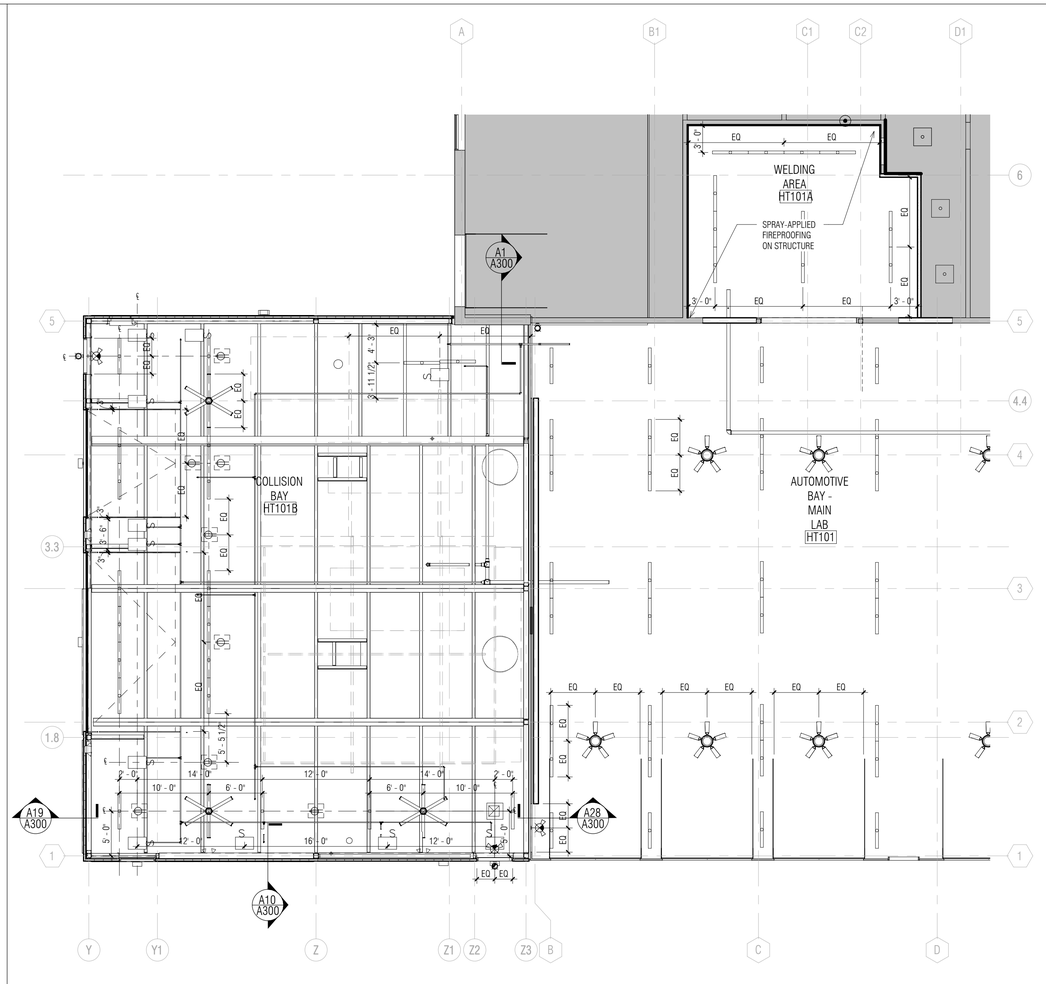
1. REFERENCE A000 FOR ARCHITECTURAL MATERIALS, GRAPHIC SYMBOLS AND ABBREVIATIONS.
2. REFERENCE A001 & A002 FOR ACCESSIBLITY AND INSTALLATION STANDARDS.
3. REFERENCE A010 FOR DOOR TYPES, FRAME TYPES AND SCHEDULES.
4. REFERENCE A010 FOR WINDOW TYPES AND SCHEDULES.
5. REFERENCE A010 FOR PARTITION TYPES AND DETAILS.
6. REFERENCE A010 FOR ENVELOPE, FLOOR & CEILING ASSEMBLY TYPES.
7. ALL INTERIOR PARTITIONS ARE TYPE C3 UNLESS NOTED OTHERWISE.
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.
9. UNLESS NOTED OTHERWISE, STOREFRONT AND CURTAINWALL DIMENSIONS ARE TO FACE OF ROUGH OPENINGS.
10. UNLESS NOTED OTHERWISE, INTERIOR DIMENSIONS ARE TO FINISHED FACE OF 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.
11. SLOPE FLOOR TO FLOOR DRAINS AT 1/8" PER FOOT IN ALL DIRECTIONS, FROM TOP OF DRAIN UP TO INDICATED FLOOR ELEVATION, UNLESS NOTED OTHERWISE.
12. PROVIDE MAXIMUM OCCUPANCY SIGNAGE AT ASSEMBLY SPACES IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH APPLICABLE CODES. SUBMIT DESIGN TO ARCHITECT FOR APPROVAL.
13. COORDINATE UTILITY ENTRANCES WITH CIVIL & MEP. PAINT UTILITY METERS & CABINETS AND ASSOCIATED PIPES/CONDUIT TO MATCH ADJACENT FINISH, TYPICAL.
14. COORDINATE ELEVATOR REQUIREMENTS INCLUDING PIT SIZES, SLAB OPENINGS, SUMPS, ETC. WITH MANUFACTURER.
15. PROVIDE FROST STOOPS AT ALL EXTERIOR DOORS, RE: LANDSCAPE AND STRUCTURAL

REFLECTED CEILING PLAN GENERAL NOTES

1. REFERENCE A000 FOR ARCHITECTURAL MATERIALS, GRAPHIC SYMBOLS AND ABBREVIATIONS.
2. REFERENCE A001 & A002 FOR ACCESSIBLITY AND INSTALLATION STANDARDS.
3. REFERENCE A041 FOR CEILING ASSEMBLY TYPES.
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. COORDINATE ALL CEILING MOUNTED OR ABOVE CEILING ITEMS INCLUDING: MECHACHANICAL, ELECTRICAL, PLUMBING, SPEAKERS, FIRE SPRINKLERS, ETC.
6. LOCATE SPRINKLER HEADS, LIGHT FIXTURES, ELECTRICAL, AV, IT, AND LIFE SAFETY DEVICES IN CENTER OF ACOUSTICAL PANEL (095113) SUPPORTED BY METAL SUSPENSION SYSTEMS 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. ALIGN CEILING GRID IN ROOMS WITH ACOUSTIC CEILING TILE CEILING SYSTEM AS SHOWN IN CEILING PLAN.
9. REFER TO INTERIOR ELEVATIONS AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHTS.
10. ALL LIGHT FIXTURE DIMENSIONS ARE TO THE CENTERLINE OF THE FIXTURE UNLESS NOTED OTHERWISE.
11. LOCATE LIGHT FIXTURES PER ARCHITECTURAL REFLECTED CEILING PLANS. REFER TO ELECTRICAL LIGHTING PLANS FOR FIXTURE TYPES AND QUANTITIES.
12. VERIFY MOUNTING HEIGHTS OF ALL PENDANT FIXTURES WITH ARCHITECT PRIOR TO HANGING.
13. REFER TO ELECTRICAL, MECHANICAL, AND FIRE SAFETY FOR ALL DEVICES, LOCATE PER ARCHITECTURAL DRAWINGS.
14. SEAL ALL PENETRATIONS OF FIRE-RATED FLOOR, WALL, AND CEILING SYSTEMS WITH APPROVED FIRE-RATED ASSEMBLIES TO MATCH FIRE RATING OF SURROUNDING CONSTRUCTION (07 84 46). RE: A040 SERIES SHEETS FOR FIRE-RATED ASSEMBLIES AND PARTITION TYPES.



A1 Floor Plan - Level 1
1/8" = 1'-0" RE: / 0 2' 4' 8' 16'



A19 First Floor Reflected Ceiling Plan
1/8" = 1'-0" RE: 1/0-A200 0 2' 4' 8' 16'

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FLOOR PLAN

A100

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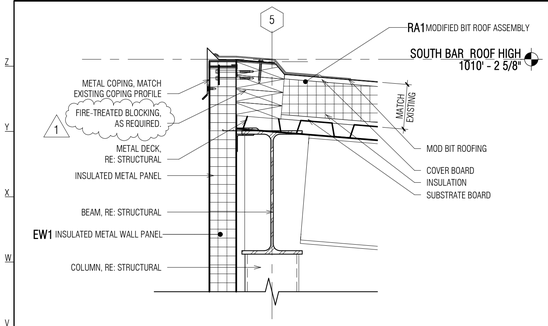
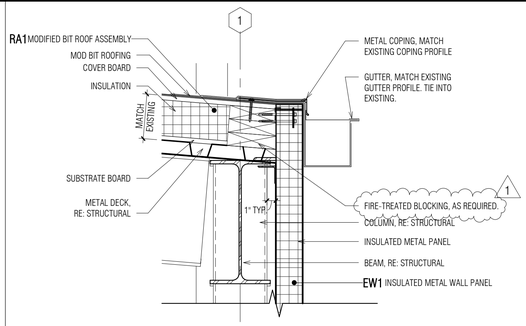


U1 Section Detail - North Coping

1 1/2" = 1'-0" RE: A1/A300

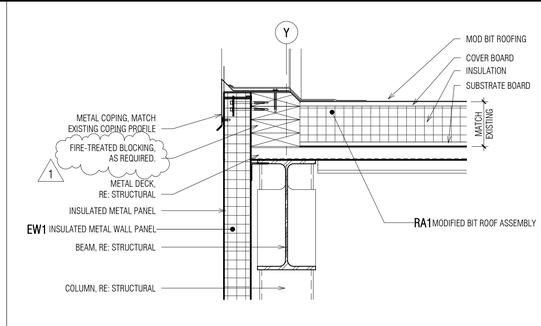
0 2" 4" 8" 16"



U10 Section Detail - South Coping

1 1/2" = 1'-0" RE: A10/A300

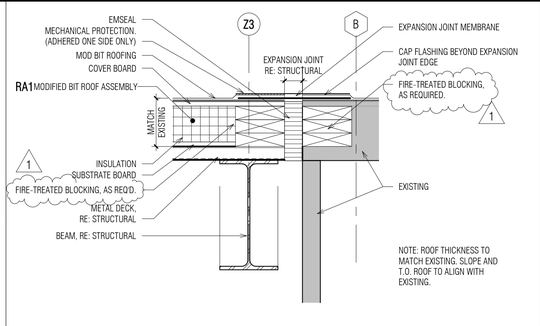
0 2" 4" 8" 16"



U19 Section Detail - West Coping

1 1/2" = 1'-0" RE: A19/A300

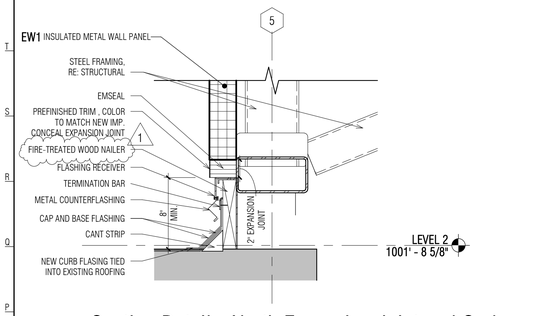
0 2" 4" 8" 16"



U28 Section Detail - East Expansion Joint

1 1/2" = 1'-0" RE: A28/A300

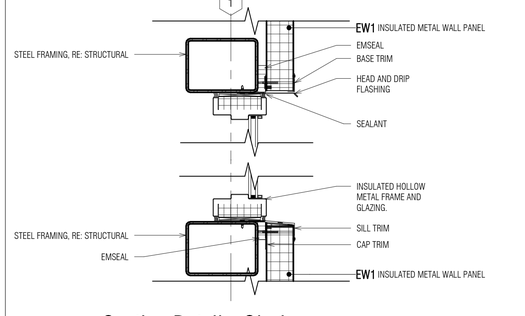
0 2" 4" 8" 16"



N1 Section Detail - North Expansion Joint and Curb

1 1/2" = 1'-0" RE: A1/A300

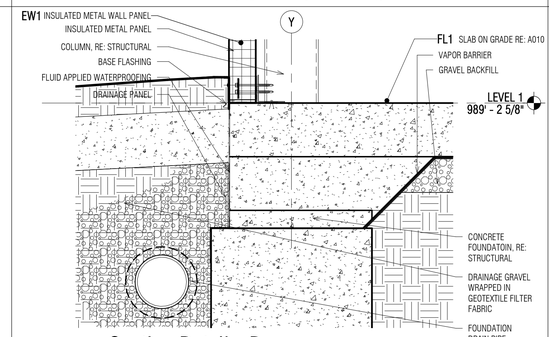
0 2" 4" 8" 16"



N10 Section Detail - Glazing

1 1/2" = 1'-0" RE: A10/A300

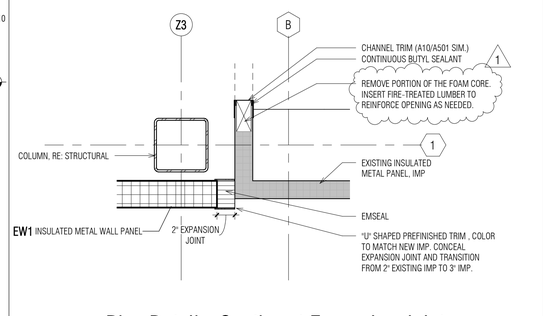
0 2" 4" 8" 16"



N19 Section Detail - Base

1 1/2" = 1'-0" RE: A19/A300

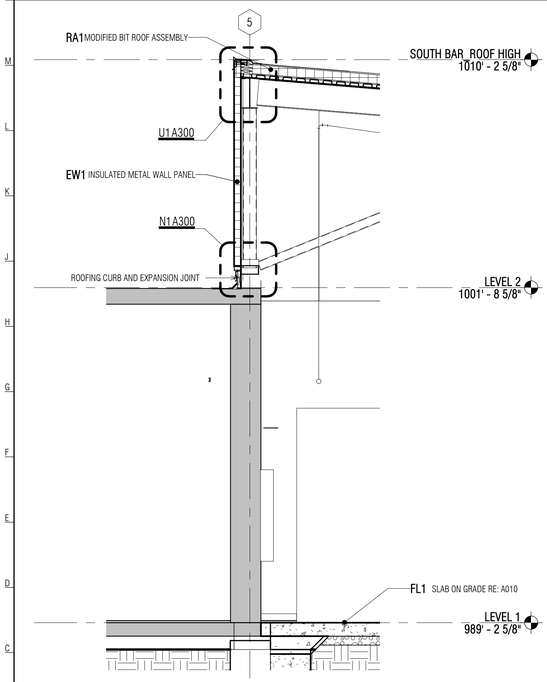
0 2" 4" 8" 16"



N28 Plan Detail - Southeast Expansion Joint

1 1/2" = 1'-0" RE: A1/A100

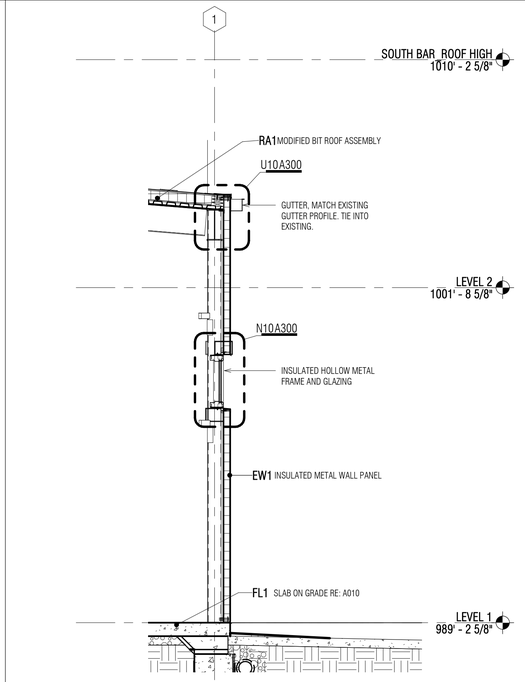
0 2" 4" 8" 16"



A1 Wall Section - North

3/8" = 1'-0" RE: 1/0-A200

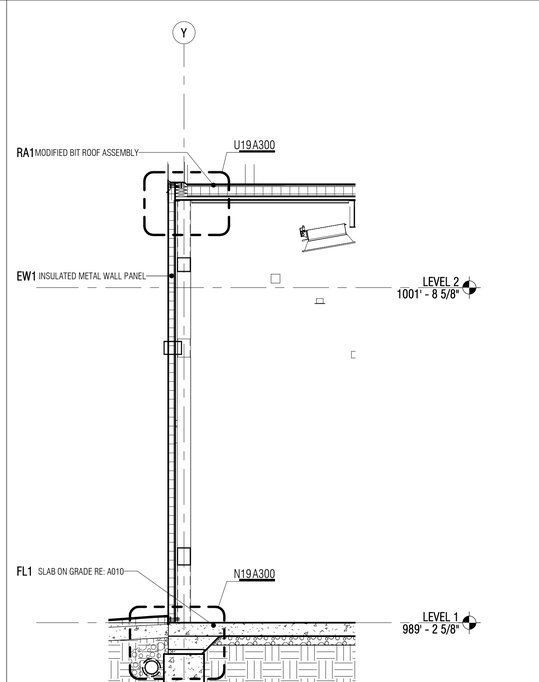
0 0'-8"1'-4" 2'-8" 5'-4"



A10 Wall Section - South

3/8" = 1'-0" RE: 1/0-A200

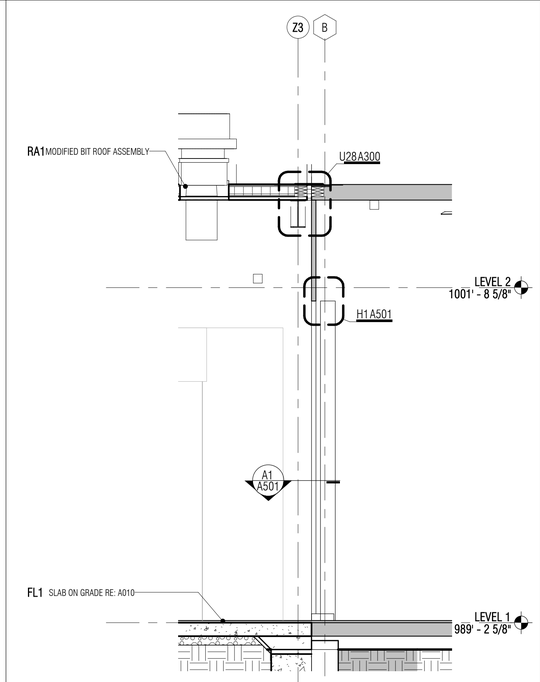
0 0'-8"1'-4" 2'-8" 5'-4"



A19 Wall Section - West

3/8" = 1'-0" RE: 2/0-A200

0 0'-8"1'-4" 2'-8" 5'-4"



A28 Wall Section - East

3/8" = 1'-0" RE: 2/0-A200

0 0'-8"1'-4" 2'-8" 5'-4"

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2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108
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ARCHITECT

Jeremy B Kahm - Architect
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EXTERIOR WALL SECTIONS

A300

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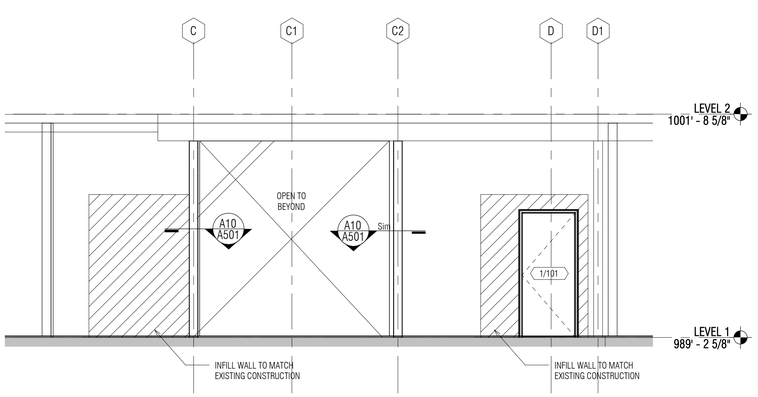
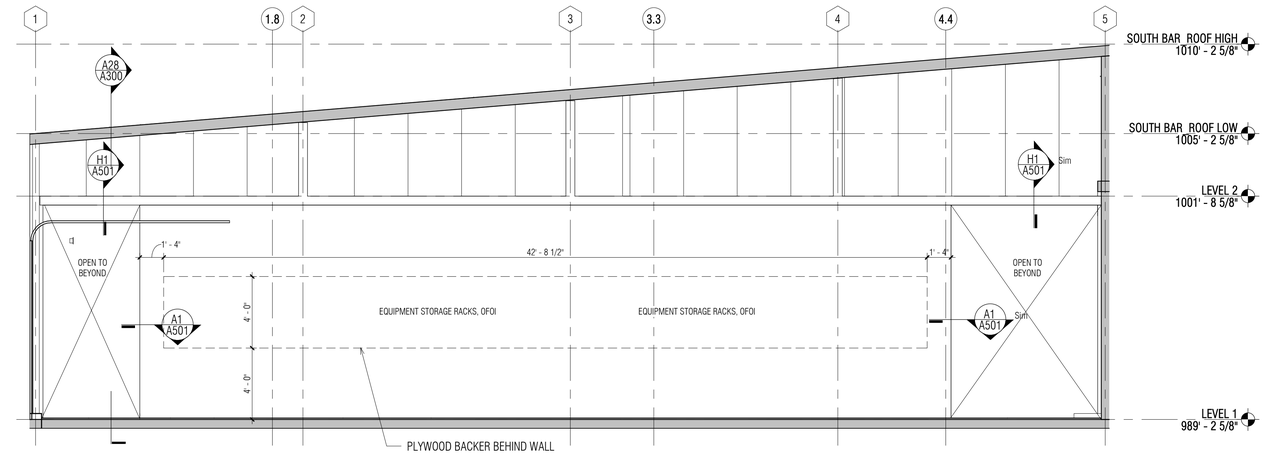


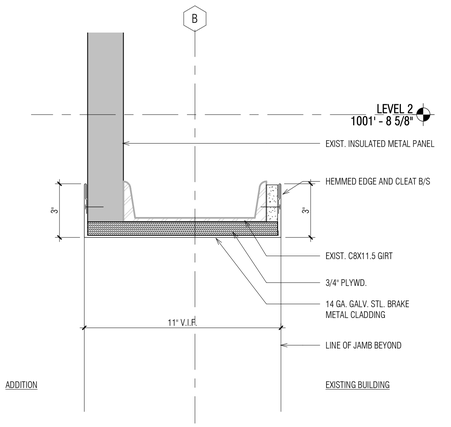
R1 Main Lab Interior Elevation - North

1/4" = 1'-0" RE: 1/0-A100



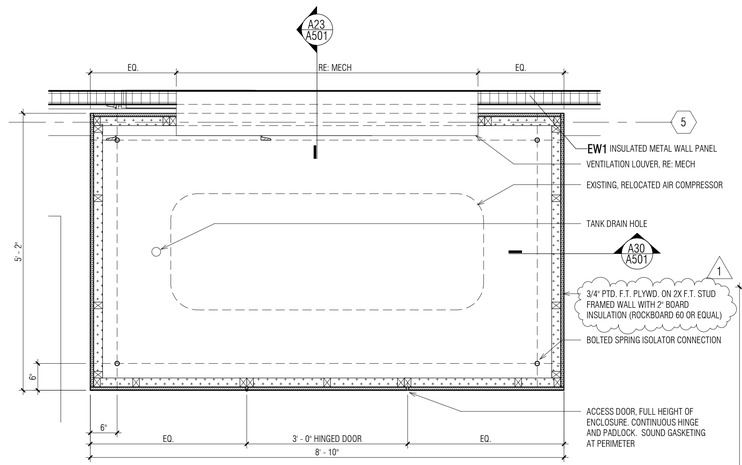
R14 Main Lab Interior Elevation - West

1/4" = 1'-0" RE: 1/0-A100



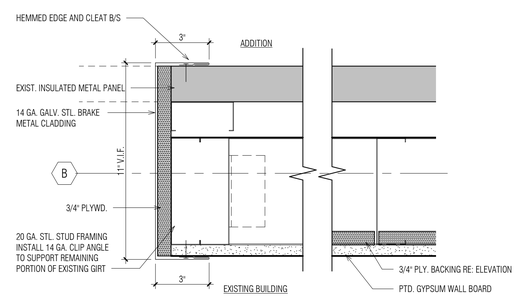
H1 Interior Wall Opening - Head

3" = 1'-0" RE: 2/0-A200



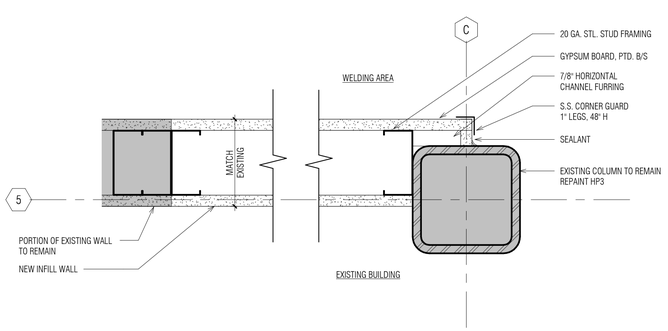
H10 Compressor Cabinet - Plan

3/4" = 1'-0" RE: A1/A100



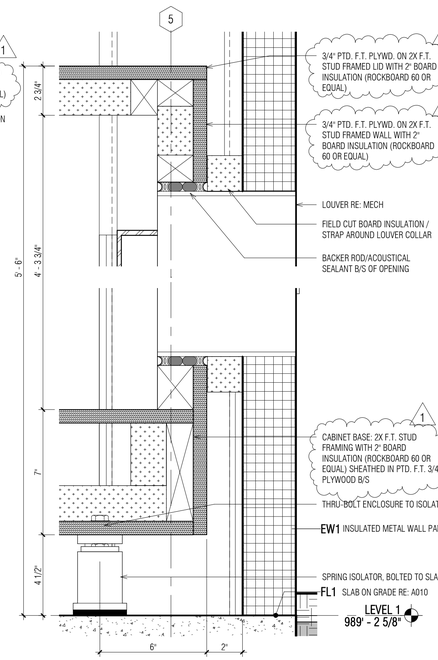
A1 Interior Wall Opening - Jamb

3" = 1'-0" RE: 1/0-A200



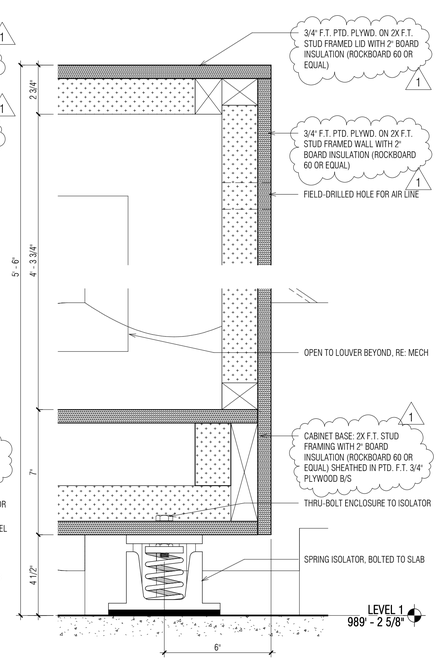
A10 Welding Area Opening - Jamb

3" = 1'-0" RE: 1/0-A200



A23 Compressor Cabinet - N/S Section

3" = 1'-0" RE: H10/A501



A30 Compressor Cabinet - E/W Section

3" = 1'-0" RE: H10/A501

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NUMBER A-2010035449
ARCHITECT
11-25-21

Jeremy B Kahm - Architect
MO# A-2010035449

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

INTERIOR ELEVATIONS AND DETAILS

A501

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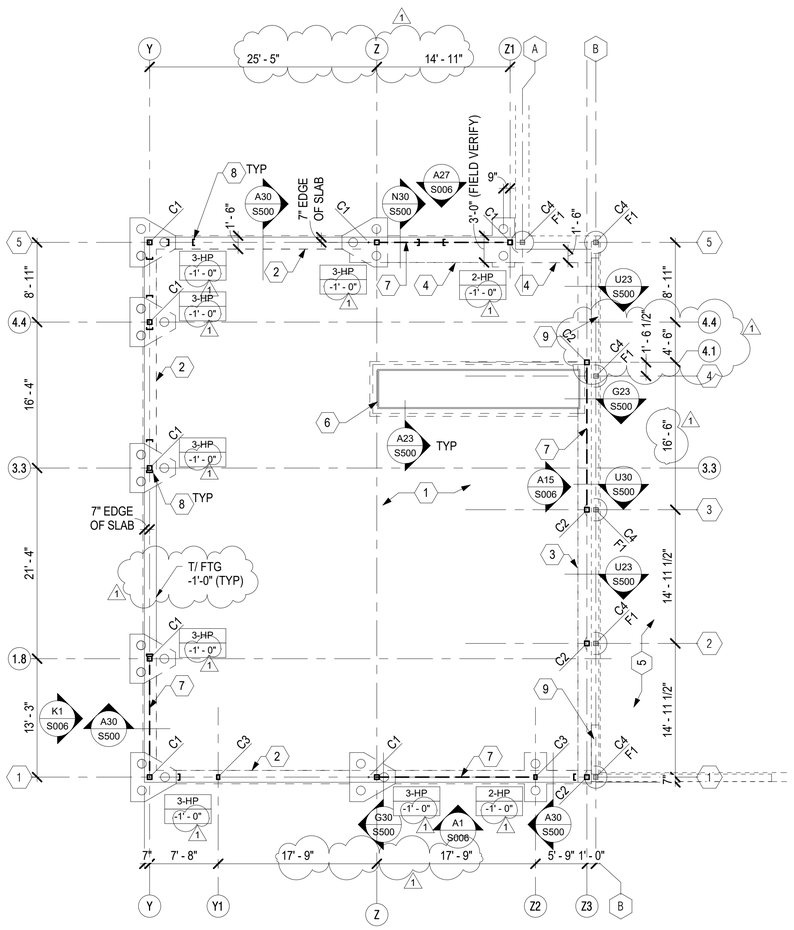


A1 FOUNDATION PLAN

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

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

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.

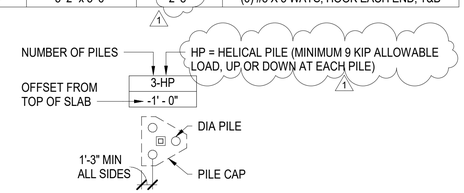
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. CONTRACTOR SHALL REPORT AN INCONSISTENCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

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



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MCC Longview HT Addition/Renovation

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

Addendum #3

Issued: September 23, 2021

Rev. #	Description	Date Issued
1	Addendum #3	10/25/21

Seal

Kathleen J Hagen
MO# E-2000155328

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

FOUNDATION PLAN

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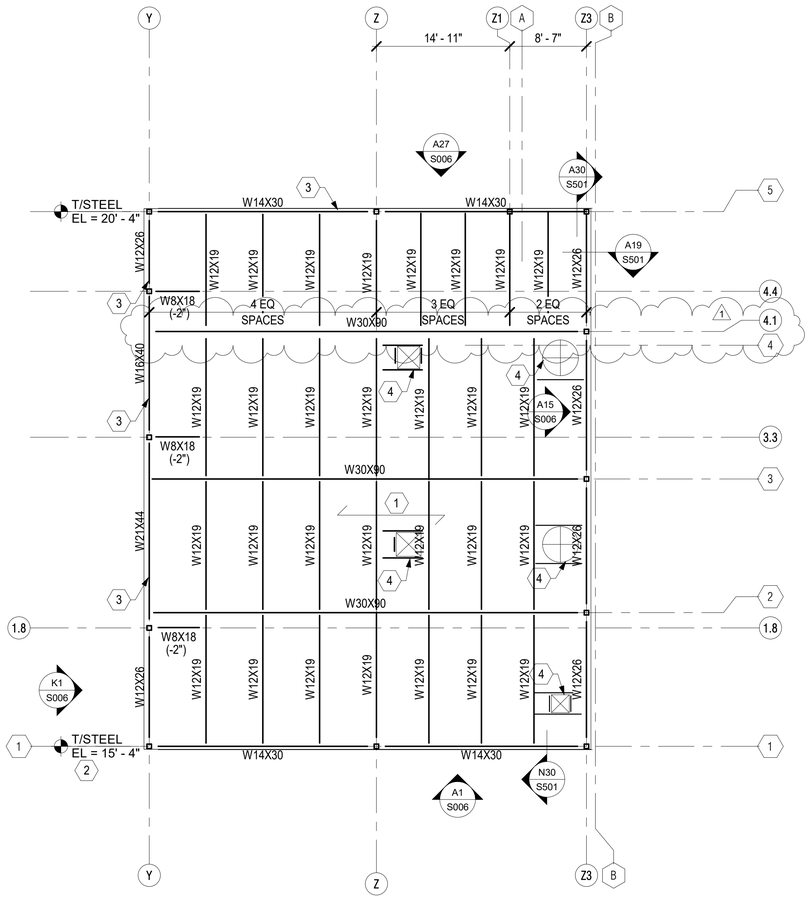


PLAN NOTES:

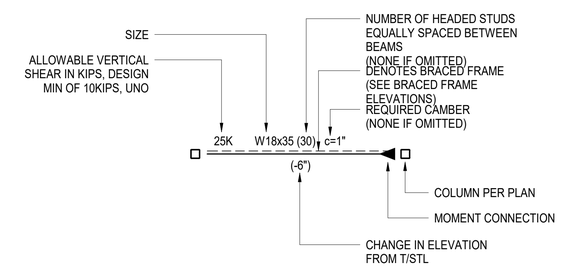
1. 1 1/2", 22 GAUGE WIDE RIB GALVANIZED ROOF DECK ATTACHED IN A 36/7 PATTERN w/ #12 TEK SCREWS AND (8) #10 TEK SCREWS FOR SIDE LAP FASTENERS. T/STEEL = SLOPE TO MATCH ARCH.
2. GC TO VERIFY TOP OF STEEL AND ADJUST TO MATCH EXIST PER ARCH.
3. HSS8X6X1/4 T/STEEL = 10' - 6" (8" HORIZONTAL)
4. ROOF PENETRATIONS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



A1 FRAMING PLAN

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

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Profession Name: Architectural Corp.
Licensee Number: 000377

FRAMING PLAN

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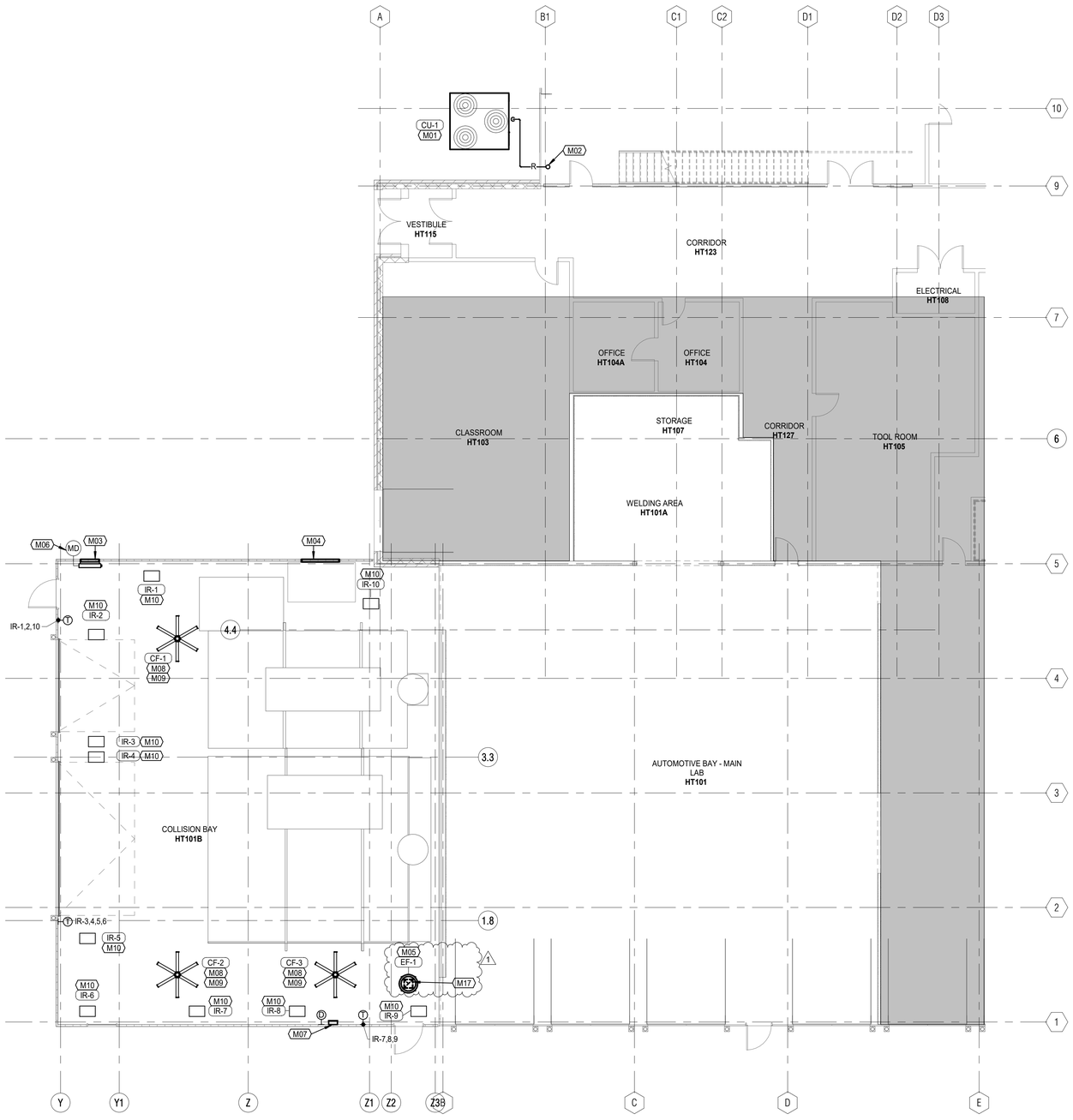
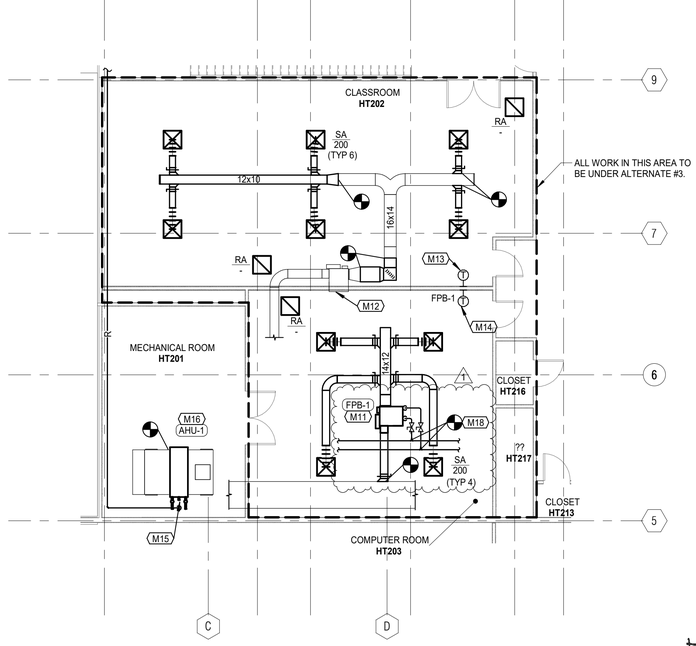


Phase 0 - Floor Plan - Level 1 - Mechanical

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



Phase 0 - Floor Plan - Level 2 - Mechanical

NOT TO SCALE

FLOOR PLAN NOTES

- M01 INSTALL NEW CONDENSING UNIT ON 4" CONCRETE HOUSEKEEPING PAD PER MANUFACTURER'S RECOMMENDATIONS. VERIFY LOCATION WITH MANUFACTURER FOR CLEARANCE, SHIFT AS CLOSE AS POSSIBLE TO THE NORTH WALL.
- M02 ROUTE REFRIGERANT PIPING THRU EXTERIOR WALL AND UP TO ABOVE 2ND FLOOR CEILING. 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 GREENHECK 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 GREENHECK 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.
- M06 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 INSTALLED ABOVE LIGHT SWITCHES.
- M10 SUSPEND INFRARED HEATER FROM STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.
- M11 INSTALL NEW FAN POWERED BOX WITHIN JOIST SPACE PER MANUFACTURER'S RECOMMENDATIONS. CONNECT 8" INLET DUCT TO EXISTING DUCT MAIN. CONNECT CONTROLS INTO EXISTING CONTROLS SYSTEM.
- M12 REBALANCE EXISTING FAN POWERED BOX TO CFM INDICATED.
- M13 RELOCATED THERMOSTAT. EXTEND WIRING AS REQUIRED TO RECONNECT 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 CARRIER 4DX, 35"x84"x6", 6-ROW, 8 FPI, 20.42 SQ. FT. FACE AREA, 490 FPM. 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 AIRFLOWS TO MATCH PREVIOUSLY MEASURED AIRFLOWS.
- 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.

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1	Addendum #3	10/25/2021

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

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

M100

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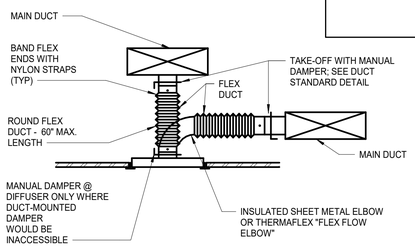
L|F+a Project No. 21.6807.00
Alan W. Lankford - Mechanical Engineer - MO #024024
COA #2006001168

AIR HANDLING UNIT SCHEDULE

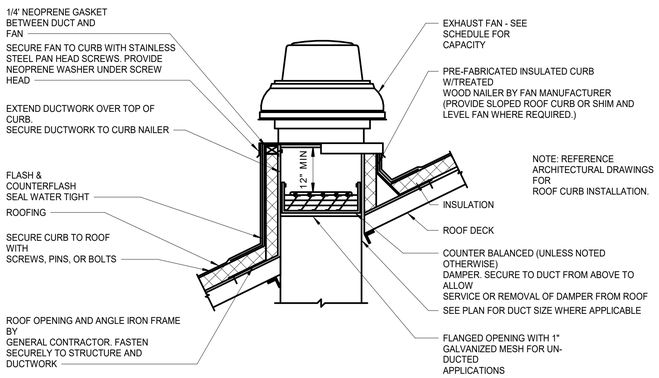
MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	FAN TYPE	FAN SIZE	FAN RPM	EXT. S.P. (IN W.G.)	TOTAL S.P. (IN W.G.)	COOLING COIL E.D.B. (°F)	E.W.B. (°F)	L.D.B. (°F)	L.W.B. (°F)	TOTAL MBH	SENS. MBH	HEATING COIL E.D.B. (°F)	L.D.B. (°F)	TOTAL MBH	ELECTRICAL VOLT	ø	HZ	NOTES
AHU-1	CARRIER	39MN	9000	AIRFOIL	17W	2534.0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

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. 1

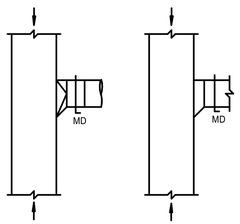


NOTE:
1. BRANCH DUCT RUNOUT TO DIFFUSER SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE INDICATED ON PLAN.
2. IN LOCATIONS WHERE TAKEOFFS ARE INSTALLED ABOVE HARD OR NON-ACCESSIBLE CEILINGS CONTRACTOR TO PROVIDE SCREWS TO PREVENT BRANCH DUCT FROM SLIDING OFF FITTING. INSPECT PRIOR TO CEILING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

DIFFUSER DETAIL
NOT TO SCALE



ROOF MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



ROUND SUPPLY BRANCH "TAKE-OFFS" (20% OR LESS AIRFLOW TO BRANCH LOW & HIGH VELOCITY)

RECTANGULAR SUPPLY BRANCH "TAKE-OFFS" (20% OR LESS AIRFLOW TO BRANCH LOW & HIGH VELOCITY)

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 FLOW (GPM)	WPD (FT)	CAPACITY (MBH)	ELECTRICAL VOLT	ø	HZ	NOTES
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 VOLT	ø	HZ	WATTS	NOTES
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 VOLT	ø	HZ	HP	NOTES
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 VOLT	ø	HZ	NOTES
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.

DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	FACE SIZE (IN.)	NECK SIZE (IN.)	FRAME TYPE*	FINISH	NOTES
SA	PRICE	SPD	24x24	8"	LAY-IN	WHITE	
RA	PRICE	PDDR	24x24	-	LAY-IN	WHITE	

NOTES:

*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.

RADIANT HEATER SCHEDULE 1

MARK NO.	MANUFACTURER	MODEL	TYPE	INPUT (MBH)	ELECTRICAL VOLT	ø	HZ	NOTES
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), ALUMINNUM 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

- EXISTING DUCTWORK TO BE REMOVED
- EXISTING DUCT TO REMAIN
- NEW DUCTWORK
- FLEX DUCT
- EXHAUST DUCT
- SUPPLY DIFFUSER
- RETURN GRILLE
- MANUAL VOLUME DAMPER
- THERMOSTAT
- ? — EQUIPMENT TYPE AND DESIGNATION
- SA / 200 — TYPE MARK: (S_) SUPPLY, (R_) RETURN, (E_) EXHAUST DIFFUSER OR GRILLE TYPE MARK AND CFM; CFM
- CONNECT TO EXISTING

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Seal

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

MECHANICAL DETAILS, SCHEDULES, GENERAL NOTES, AND SYMBOLS

M200

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L|F+a Project No. 21.68907.00
Alan W. Lankford - Mechanical Engineer - MO #0240424
COA # 2006001188

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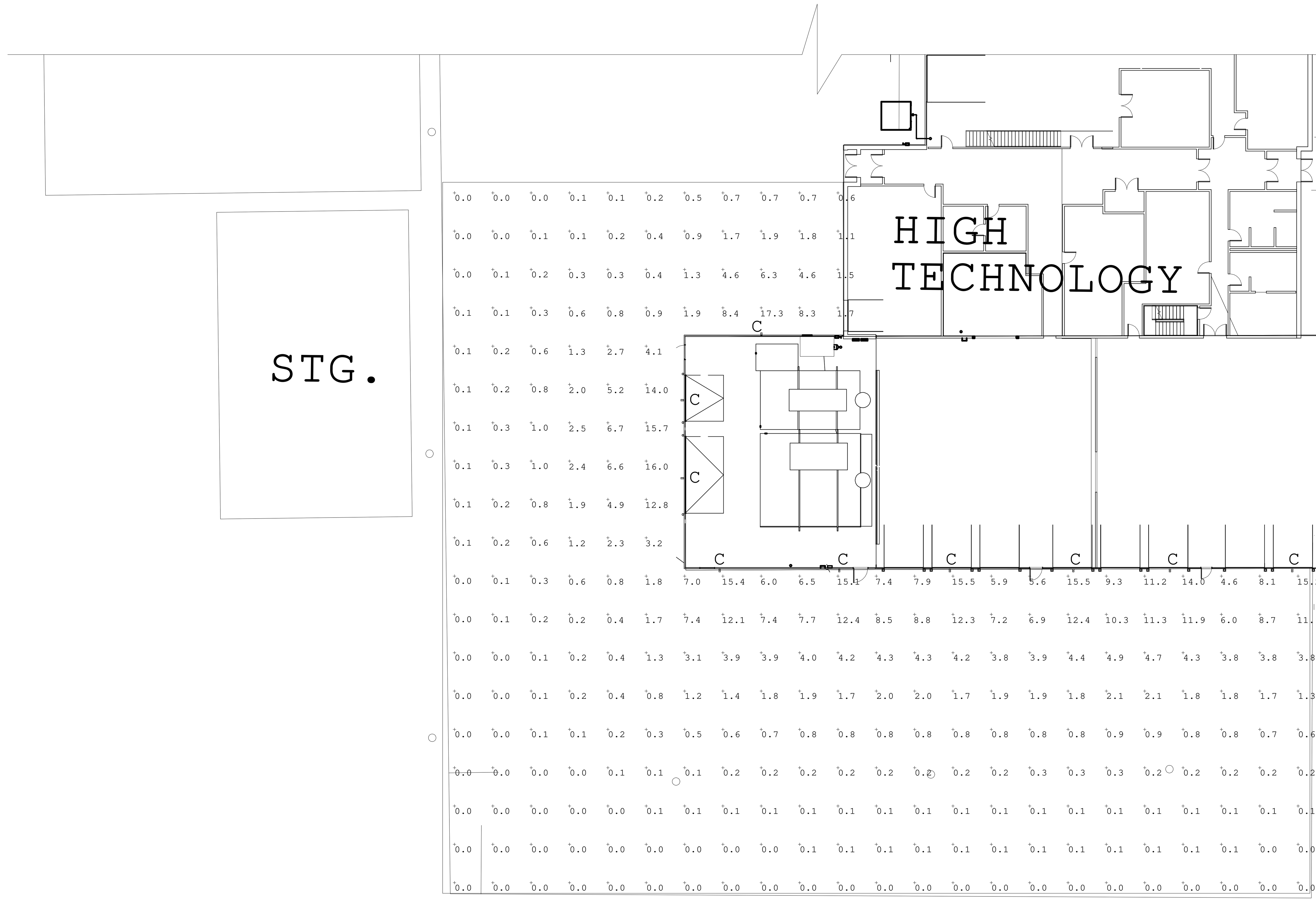


PHOTOMETRIC PLAN-PAVED AREA

SCALE: 1" = 20'-0"

Luminaire Schedule						
Symbol	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	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.

Lumark

Catalog #		Type
Project		
Comments		Date
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.

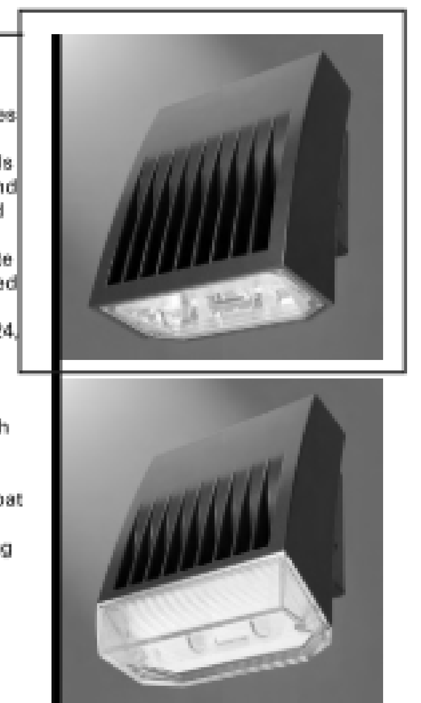
Optical
Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens assembly designed for maximum forward throw. Solid state LED Crosstour MAXX luminaries 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 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available in 58W and 81W models only. Crosstour MAXX luminaires maintain greater than 89% 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.

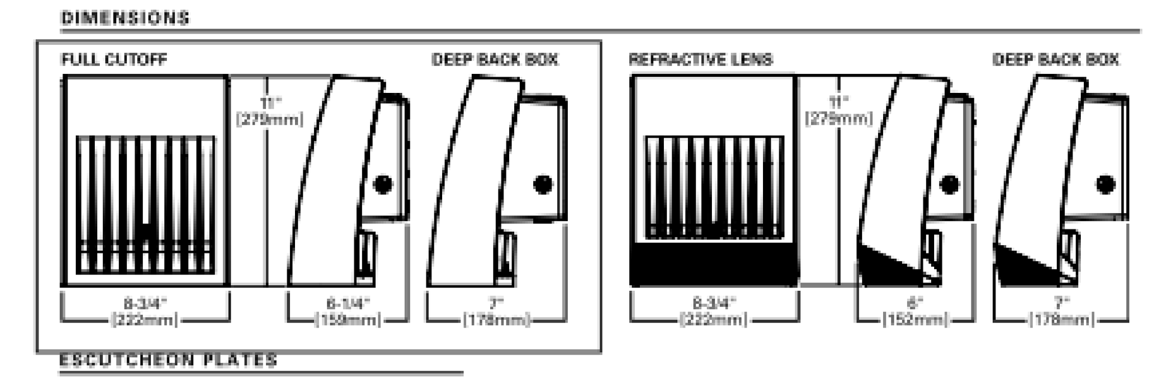
Warranty
Five-year warranty.



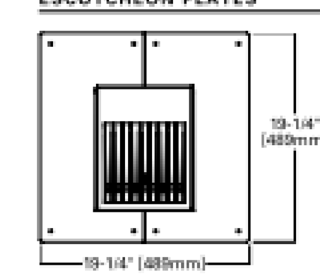
XTOR
CROSSTOUR
MAXX LED

APPLICATIONS:
WALL / SURFACE
INVERTED
SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES



COOPER Lighting Solutions

*www.designlights.org

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
NOM Compliant Models
3G Vibration Tested
UL924 Listed (CBP Models)
IP66 Rated

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

EPA
Effective Projected Area (Sq. Ft.):
XTOR6B, XTOR8B, XTOR12B=0.54

SHIPPING DATA:
Approximate Net Weight:
12-15 lbs. [5.4-6.8 kgs.]

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page 2 — **XTOR** CROSSTOUR MAXX LED

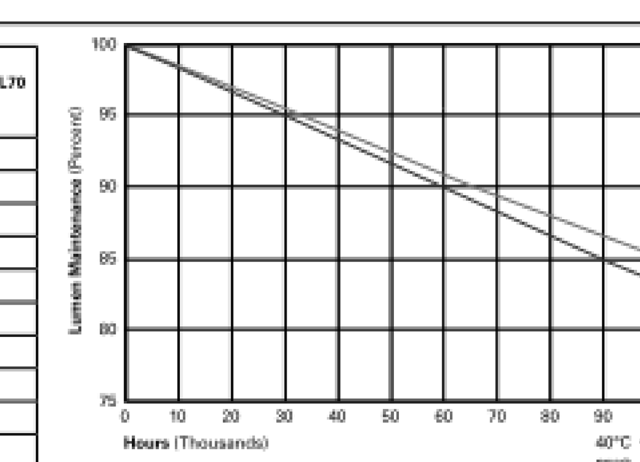
POWER AND LUMENS BY FIXTURE MODEL

58W Series						
LED Information	XTOR6B	XTOR6BRL	XTOR6B-W	XTOR6BRL-W	XTOR6B-Y	XTOR6BRL-Y
Delivered Lumens	6,129	6,225	6,038	6,133	5,611	5,826
B.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	8,373	8,504	7,748	8,079
B.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
B.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	XTOR6B and XTOR8B Full Cutoff CBP Egress LED	XTOR6B and XTOR8B Refractive Lens CBP Egress LED
Delivered Lumens	509	468
B.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)
XTOR6B Model		
25°C	> 90%	246,000
40°C	> 88%	217,000
50°C	> 88%	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				
	XTOR6B	XTOR8B	XTOR12B	XTOR6B-CBP (Fixture/Battery)	XTOR8B-CBP (Fixture/Battery)
120V	0.51	0.71	0.94	0.60/0.25	0.92/0.25
208V	0.25	0.39	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
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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816-221-1411

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

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

Lighting Photometrics

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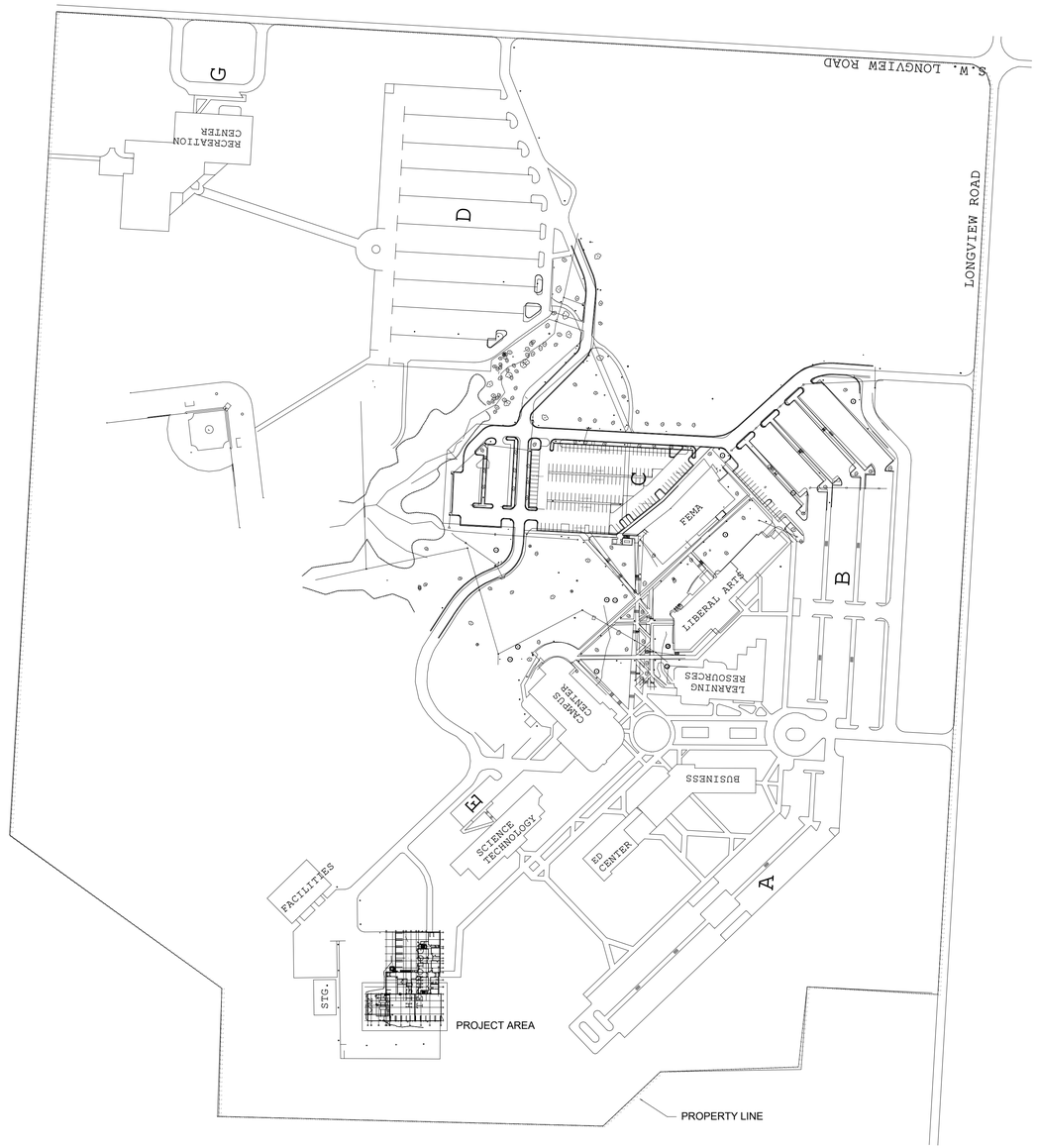

Calculation Summary				
Label	Units	Avg	Max	Min
PropertyLine	Fc	0.00	0.0	0.0

DISCLAIMER:
These calculation have been performed according to IES standards and good practice. There may be differences between measured values and results presented herin, 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"

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1 **LIGHTING PHOTOMETRIC**

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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				2.1			0.578			1	20 A	LTG; COLLISION BAY	2	
1	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	--
	7				5.8			0			--	--	PROVISION	8	--
1	9	IDD DOWN DRAFT BOOTH	30 A	3		5.8			0		--	--	PROVISION	10	--
	11						5.8			0	--	--	PROVISION	12	--
	13				7.5			0			--	--	PROVISION	14	--
1	15	MCD CROSS DRAFT BOOTH	30 A	3		7.5			0		--	--	PROVISION	16	--
	17						7.5			0	--	--	PROVISION	18	--
	19				5.5			0			--	--	PROVISION	20	--
1	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	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. 1
2.
3.
4.
5.

GENERAL NOTES:

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:

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.

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L|F+a Project No. 21.6807.00
Alan W. Lankford - Mechanical Engineer - MO #024224
COA #2006001168

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

ELECTRICAL SCHEDULES

E500

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