PROJECT INFORMATION

LEE'S SUMMIT, MO
OLDHAM VILLAGE

ADDENDUM 01
12/09/25

PROJECT SUMMARY

-	TENANT IMPROVEMENT
-	INTERIOR METAL STUD FRAMING
-	INTERIOR FINISHES
-	TOILET ROOMS
-	COOLERS
-	STOCKROOM / BACK OF HOUSE
-	RESTAURANT
-	INTERIOR DESIGN / DECOR THEME

CODE SUMMARY

REF LOCAL CODE AMENDMENTS IN ADDITION TO THE CODES BELOW

APPLICABLE CODES

BUILDING CODE	2018 INTERNATIONAL BUILDING CODE
ELECTRICAL CODE	2017 NATIONAL ELECTRIC CODE
PLUMBING CODE	2018 INTERNATIONAL PLUMBING CODE
MECHANICAL CODE	2018 INTERNATIONAL MECHANICAL CODE
FIRE CODE	2018 INTERNATIONAL FIRE CODE
ACCESSIBILITY	ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
ENERGY CODE	2018 INTERNATIONAL ENERGY CODE
FUEL GAS CODE	2018 INTERNATIONAL FUEL GAS CODE

DEFERRED SUBMITTALS	
FIRE PROTECTION	
FIRE ALARM	

CODE ANALYSIS

PROPOSED PRIMARY OCCUPANCY GROUP (MIXED OCCUPANCY)

A2	RESTAURANT
S-1	STORAGE
B	BUSINESS - OFFICES
M	MERCANTILE

BUILDABLE AREA

TOTAL ALLOWABLE AREA	24,000 SF
ALLOWABLE HEIGHT	60'
TOTAL BUILDING AREA	10,179 SF

CONSTRUCTION TYPE (WOOD TO BE FIRE RETARDANT IN ACCORDANCE WITH IBC SECTION 603; ALL WOOD TO ACHIEVE CLASS "C" FLAME SPREAD PER ASTM E84)

CONSTRUCTION TYPE	IIB; FULLY SPRINKLERED

FIRE PROTECTION (HOURLY FIRE RESISTANCE RATING REQUIREMENTS PER TABLE 601)

LOCATION	REQUIRED / PROVIDED
STRUCTURAL FRAME	0
ROOF CONSTRUCTION	0
EXTERIOR NONBEARING WALLS	0
EXTERIOR BEARING WALLS	0
INTERIOR NONBEARING WALLS	0
INTERIOR BEARING WALLS	0
FLOOR CONSTRUCTION	0

CODE ANALYSIS

BUILDING AND SPACE ARE FULLY SPRINKLERED

TOTAL OCCUPANT LOAD (REF LIFE SAFETY PLAN FOR ADDITIONAL INFORMATION)

TOTAL OCCUPANT LOAD	453

EGRESS (REF LIFE SAFETY PLAN FOR ADDITIONAL EGRESS INFORMATION)

EGRESS WIDTH REQUIRED	96"
EGRESS WIDTH PROVIDED	306"
MAXIMUM COMMON PATH OF TRAVEL	75'
MAXIMUM TRAVEL DISTANCE	250'
MINIMUM AISLE WIDTH	36"

PLUMBING FIXTURE COUNT (PER CHAPTER 29 BUILDING CODE)

LAVATORY FACTOR	1/200 MALE 1/200 FEMALE
MALE LAVATORIES REQUIRED / PROVIDED	2/2
FEMALE LAVATORIES REQUIRED / PROVIDED	2/2
UNISEX LAVATORIES REQUIRED / PROVIDED	0/1
WATER CLOSET FACTOR	1/75 MALE 1/75 FEMALE
MALE WATER CLOSETS/URINALS REQUIRED / PROVIDED	3/3
FEMALE WATER CLOSETS REQUIRED / PROVIDED	3/3
UNISEX WATER CLOSETS REQUIRED / PROVIDED	0/1

ACCESSIBLE SEATING REQUIREMENTS

TOTAL SEATS PROVIDED	309
ACCESSIBILITY FACTOR	5%
ACCESSIBLE SEATS REQUIRED/PROVIDED	16/16

VICINITY MAP

PROJECT SITE

TRUE PLAN

DRAWING INDEX

NUMBER	NAME	LATEST REVISION	DATE REVISED
00 - GENERAL			
A001	COVER SHEET	ADDENDUM 01	12/09/25
A002	GENERAL INFORMATION	PERMIT SET	11/17/25
A003	LIFE SAFETY PLAN	ADDENDUM 01	12/09/25
01 - ARCHITECTURAL			
A010	FIXTURE PLAN	PERMIT SET	11/17/25
A011	MILLWORK PLAN	PERMIT SET	11/17/25
A012	MILLWORK DETAILS	PERMIT SET	11/17/25
A013	MILLWORK DETAILS	PERMIT SET	11/17/25
A014	MILLWORK DETAILS	PERMIT SET	11/17/25
A101	PARTITION PLAN	PERMIT SET	11/17/25
A102	PARTITION DETAILS	PERMIT SET	11/17/25
A103	PARTITION DETAILS	PERMIT SET	11/17/25
A105	SLAB PLAN	PERMIT SET	11/17/25
A107	FLOOR FINISH PLAN	PERMIT SET	11/17/25
A108	WALL FINISH PLAN	PERMIT SET	11/17/25
A110	FINISH & CLADDING DETAILS	PERMIT SET	11/17/25
A200	OVERALL REFLECTED CEILING PLAN	PERMIT SET	11/17/25
A201	ENLARGED RCP	PERMIT SET	11/17/25
A202	ENLARGED RCP	PERMIT SET	11/17/25
A300	ROOF PLAN	PERMIT SET	11/17/25
A400	INTERIOR ELEVATIONS	PERMIT SET	11/17/25
A500	WALL SECTIONS	PERMIT SET	11/17/25
A501	WALL SECTIONS	PERMIT SET	11/17/25
A600	ENLARGED RESTROOM PLANS & DETAILS	PERMIT SET	11/17/25
A601	MAIN BAR PLANS & ELEVATIONS	PERMIT SET	11/17/25
A602	SECONDARY BAR PLANS & DETAILS	PERMIT SET	11/17/25
A800	DOOR AND WINDOW INFORMATION	PERMIT SET	11/17/25
02 - STRUCTURAL			
S001	GENERAL NOTES	PERMIT SET	11/17/25
S002	SPECIAL INSPECTIONS & TABLES	PERMIT SET	11/17/25
S101	FOUNDATION PLAN	PERMIT SET	11/17/25
S102	ROOF FRAMING PLAN	PERMIT SET	11/17/25
S201	TYPICAL FOUNDATION DETAILS & SECTIONS	PERMIT SET	11/17/25
S301	TYPICAL ROOF FRAMING DETAILS	PERMIT SET	11/17/25
04 - GENERAL MEP			
MEP100	SPECIFICATIONS	PERMIT SET	11/17/26
MEP101	SPECIFICATIONS	PERMIT SET	11/17/26
MEP200	MEP SCHEDULES	PERMIT SET	11/17/26
05 - MECHANICAL			
M100	FLOOR PLAN - MECHANICAL	PERMIT SET	11/17/26
M101	ROOF PLAN - MECHANICAL	PERMIT SET	11/17/26
M200	MECHANICAL DETAILS	PERMIT SET	11/17/26
M300	MECHANICAL SCHEDULES, GENERAL NOTES, & SYMBOLS	PERMIT SET	11/17/26
06 - PLUMBING			
P100	UNDERGROUND FLOOR PLAN - PLUMBING	PERMIT SET	11/17/26
P101	FLOOR PLAN - PLUMBING	PERMIT SET	11/17/26
P102	ROOF PLAN - PLUMBING	PERMIT SET	11/17/26
P200	PLUMBING RISER	PERMIT SET	11/17/26
P300	PLUMBING DETAILS	PERMIT SET	11/17/26
P400	PLUMBING SCHEDULES, GENERAL NOTES, & SYMBOLS	PERMIT SET	11/17/26
08 - ELECTRICAL			
E100	FLOOR PLAN - POWER	PERMIT SET	11/17/26
E200	FLOOR PLAN - LIGHTING	PERMIT SET	11/17/26
E300	FLOOR PLAN - SYSTEMS	PERMIT SET	11/17/26
E301	ROOF PLAN - SYSTEMS	PERMIT SET	11/17/26
E400	ENLARGED KITCHEN PLAN	PERMIT SET	11/17/26
E401	ENLARGED BAR PLANS	PERMIT SET	11/17/26
E500	ELECTRICAL DETAILS	PERMIT SET	11/17/26
E600	ELECTRICAL SCHEDULES AND RISER	PERMIT SET	11/17/26
E601	ELECTRICAL SCHEDULES, GENERAL NOTES, & SYMBOLS	PERMIT SET	11/17/26
09 - FIRE PROTECTION			
FP100	FLOOR PLAN - FIRE PROTECTION	PERMIT SET	11/17/26
10 - KITCHEN VENDOR			
QF001	FOODSERVICE GENERAL NOTES, LEGENDS, SHEET INDEX	OWNER COMMENTS	10.31.2025
QF100	FOODSERVICE OVERALL PLAN	MEP SET	10.02.2025
QF101	FOODSERVICE EQUIPMENT PLAN	OWNER COMMENTS	10.31.2025
QF102	FOODSERVICE EQUIPMENT PLANS & SCHEDULES	OWNER COMMENTS	10.31.2025
QF201	FOODSERVICE PLUMBING ROUGH-IN PLAN	OWNER COMMENTS	10.31.2025
QF202	FOODSERVICE PLUMBING ROUGH-IN PLANS & SCHEDULE	OWNER COMMENTS	10.31.2025
QF301	FOODSERVICE ELECTRICAL ROUGH-IN PLAN	OWNER COMMENTS	10.31.2025
QF302	FOODSERVICE ELECTRICAL ROUGH-IN PLANS & SCHEDULE	OWNER COMMENTS	10.31.2025
QF303	FOODSERVICE ELECTRICAL DETAILS	MEP SET	10.02.2025
QF401	FOODSERVICE SPECIAL CONDITIONS PLAN	OWNER COMMENTS	10.31.2025
QF402	FOODSERVICE SPECIAL CONDITIONS PLAN & DETAILS	OWNER COMMENTS	10.31.2025

*KITCHEN PLANS ARE PROVIDED BY OWNER VENDOR FOR REFERENCE ONLY TO SUPPLEMENT THE SIGNED AOR/EOR PLANS

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:47

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OWNER

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISSLER
NUMBER A-2023017524
REGISTERED ARCHITECT

12/9/2025

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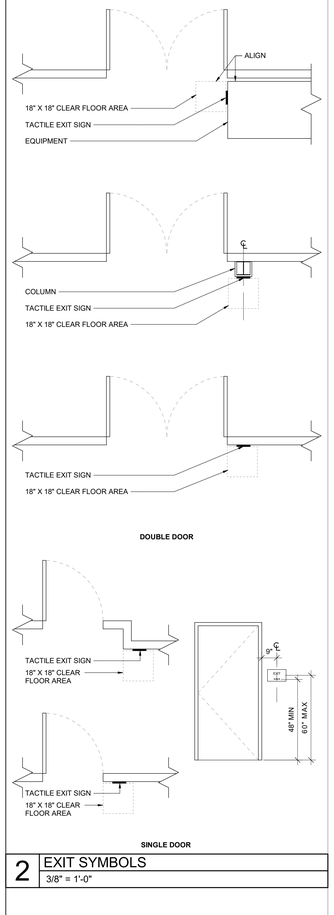
ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET
2	12/09/25	ADDENDUM 01

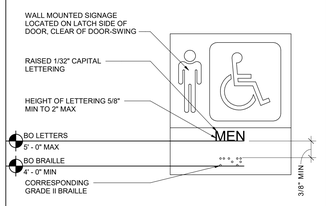
SHEET NAME
COVER SHEET

SHEET NUMBER
A001



2 EXIT SYMBOLS

3/8" = 1'-0"



1 RESTROOM SYMBOLS

1 1/2" = 1'-0"

SIGNAGE REQUIREMENTS

1. REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS:
   -ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE.
   -ACCESSIBLE ROOMS WHERE MULTIPLE SINGLE-USER TOILETS ARE CLUSTERED AT A SINGLE LOCATION.
2. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE ABOVE LISTED LOCATIONS. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNAL SYMBOL OF ACCESSIBILITY AT EACH SEPARATE -SEX TOILET INDICATING THE LOCATION OF THE NEAREST UNISEX TOILET.
3. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595C. PICTOGRAMS AND THEIR FIELDS SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST THEIR FIELDS, WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.
4. CHARACTER AND SYMBOLS OF SIGNS SHALL BE IN CONTRAST WITH THEIR BACKGROUND AND SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE MATERIAL OR FINISHES.
5. THE UPPERCASE LETTER "I" SHALL BE USED TO DETERMINE THE ALLOWABLE HEIGHT OF ALL CHARACTERS OF A FONT. THE UPPERCASE LETTER "O" SHALL BE USED TO DETERMINE THE ALLOWABLE WIDTH OF ALL CHARACTERS OF A FONT. THE WIDTH OF THE UPPERCASE LETTER "O" OF THE FRONT SHALL BE 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE "I" OF THE FONT. 2009 ICC A117.1 SECTION 703.2 CHARACTER HEIGHT MEASURED FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (16MM) MINIMUM AND 2 INCHES (51MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
6. WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING:
   - LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS.
   - RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
   - PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.
7. ACCESSIBLE SIGNAGE SHALL USE GRADE II BRAILLE.
8. A TACTILE SIGN STATING "EXIT" SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. REFERENCE DOOR SCHEDULE FOR LOCATIONS.

ACCESSIBILITY NOTES

1. FLOOR SURFACES ARE SLIP RESISTANT.
2. ALL CHANGES IN FLOOR ELEVATION ALONG ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2" IN HEIGHT. CHANGES BETWEEN 1/4" AND 1/2" SHALL BE CUT OR GROUND TO A BEVEL WITH 1:2 STEEPNESS.
3. LATCHING AND LOCKING DOORS ARE SPECIFIED TO BE OPERABLE WITH A SINGLE EFFORT BY HARDWARE THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. DOOR OPENING HARDWARE IS SPECIFIED TO BE MOUNTED BETWEEN 34" AND 48" ABOVE FLOOR FINISH.
4. MAXIMUM PULL OR PUSH EFFORT TO OPERATE NON-FIRE-RATED DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. SPECIFIED CLOSERS TO BE ADJUSTED TO COMPLY.
5. ALL DOORS ARE SPECIFIED 3'-0" MINIMUM IN WIDTH AND 6'-8" MINIMUM IN HEIGHT. DOORS ARE CAPABLE OF OPENING AT LEAST 90 DEGREES WITH A MINIMUM OF 32" CLEAR WIDTH.
6. FLOOR AREAS ON EACH SIDE OF DOORS ARE SPECIFIED TO BE LEVEL AND CLEAR. THE DIMENSIONS OF THE LEVEL AREAS ARE SPECIFIED TO MEET ICC A117.1 2009, IAC AND ADA. CLEARANCE REQUIREMENTS. A MAXIMUM CHANGE IN LEVEL OF 1/2" ALLOWED AT THRESHOLD OF THE DOORWAY. CHANGES BETWEEN 1/4" AND 1/2" SHALL BE CUT OR GROUND TO A BEVEL WITH 1:2 STEEPNESS.
7. MOUNT ALL RESTROOM AND PLUMBING ACCESSORIES IN COMPLIANCE WITH ADA STANDARDS.
8. MOUNT ALL SWITCHES, RECEPTACLES, THERMOSTATS, ETC IN COMPLIANCE WITH ADA STANDARDS.
9. GRAB BARS ARE PROVIDED IN COMPLIANCE WITH ICC A117.1 2009 – OR - CBC:
   - GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPORT BACKING, ETC.) SHALL SUPPORT A 250-POUND LOAD.
   - GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
   - GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
   - EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
10. SINKS AND LAVATORIES ARE MOUNTED TO COMPLY WITH KNEESPACE REQUIREMENTS OF ICC A117.1 2009 – OR - CBC FIGURE 11B-306.3:
    - FAUCET CONTROLS AND OPERATING MECHANISMS ARE TO BE OPERABLE WITH ONE HAND AND NOT REQUIRED TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 POUNDS. SELF CLOSING CONTROLS ARE TO REMAIN OPEN FOR AT LEAST 10 SECONDS.
    - THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

FIRE SAFETY REQUIREMENTS

1. MAINTAIN EXISTING FIRE PROTECTION, MEANS OF EGRESS, AND LIFE SAFETY REQUIRED BY LOCAL, STATE, AND FEDERAL AUTHORITIES HAVING JURISDICTION AT ALL TIMES DURING NEW CONSTRUCTION.
2. PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. AUTHORITY HAVING JURISDICTION SHALL APPROVE FINAL FIRE EXTINGUISHER QUANTITY AND LOCATIONS. FOR BIDDING PURPOSES, PROVIDE COST PER UNIT. PORTABLE FIRE EXTINGUISHER SHALL BE LOCATED WITHIN 30 FEET OF COMMERCIAL COOKING EQUIPMENT. FIRE EXTINGUISHERS ARE TO BE MOUNTED SUCH THAT THE BOTTOM OF THE UNIT IS 26" AFF MAX.
3. PROVIDE (1) UL LISTED 2A:20BC DRY CHEMICAL FIRE EXTINGUISHER, OR (1) STANDARD UL LISTED 2-1/2 GALLON WATER (E-16) AND (1) UL LISTED 10BC CARBON DIOXIDE FIRE EXTINGUISHER MOUNTED TOGETHER IN EACH 3000 SQFT OF WORK AREA OR FRACTION THEREOF (MINIMUM OF TWO AVAILABLE IN ALL CONSTRUCTION AREAS AT ALL TIMES) DURING ENTIRE CONSTRUCTION PERIOD.
4. PROVIDE AND INSTALL KNOX BOX, COORDINATE TYPE OF BOX AND LOCATION WITH FIRE DEPARTMENT OFFICAL.
5. PROVIDE FIRE-STOPPED MATERIAL IN ACCORDANCE WITH LOCAL CODES FOR PENETRATIONS IN WALLS, FLOORS OR ROOF REQUIRING PROTECTED OPENINGS.
6. HIRE A LICENSED SPRINKLER CONTRACTOR. CONTRACTOR IS TO SUBMIT SIGNED AND SEALED SPRINKLER DRAWINGS FOR APPROVAL PRIOR TO ANY ALTERATION OF THE AUTOMATIC SPRINKLER SYSTEM UNDER SEPARATE PERMIT. SUBMIT PLANS TO ARCHITECT AND ENGINEER FOR REVIEW. CONFIRM ALL WATER FLOW TEST INFORMATION WITH LOCAL FIRE DEPARTMENT AND WATER DEPARTMENT VIA SPRINKLER CONTRACTOR. INSTALL IBC-APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT NEW SCOPE OF WORK AREA WITH REQUIRED ADJUSTMENTS TO EXISTING WORK, FURNISHED AND INSTALLED BY A LICENSED SPRINKLER CONTRACTOR. ANY MODIFICATION TO EXISTING SPRINKLER MAIN LINES MUST BE COORDINATED WITH ARCHITECT AND ENGINEER FOR OWNER APPROVAL.
7. PROVIDE FIRE TREATED WOOD IN ACCORDANCE WITH NON-COMBUSTIBLE CONSTRUCTION TYPE I & II, SEC. 602.2 - IBC COMPLY WITH SECTION 602.2 REQUIREMENTS FOR NON-COMBUSTIBLE CONSTRUCTION IN TYPES I AND II CONSTRUCTION:
   - FIRE RETARDANT WOOD MAY BE USED IN CERTAIN LOCATION AS ALLOWED PER SECTION 603.1.
   - ALL PLYWOOD INSTALLED DIRECTLY TO THE FACE OF NON-RATED WALL STUDS IN THE BACK OF HOUSE (MECHANICAL, STORAGE, OFFICE AREAS), SHALL BE FIRE-RETARDANT TREATED.
   - PLYWOOD INSTALLED ON STUDS AS A BACKUP SUBSTRATE AND COVERED WITH A FINISH MATERIAL (FRP, METAL, DECORATIVE WOOD PLANS, ETC.) SHALL BE FIRE-RETARDANT TREATED.
   - ALL PLYWOOD OR 2X MEMBERS USED AS BLOCKING AT DOORS WINDOWS, OR INSIDE COOLER FREEZER PANELS MAY BE FIRE-RETARDANT TREATED.
   - ALL TYPES OF INTERIOR FINISHES (WALL AND CEILING, FLOOR, COMBUSTIBLE MATERIALS, DECORATIVE MATERIALS AND TRIM, INSULATION, ACOUSTICAL CEILING SYSTEMS, ETC.) MUST MEET A MINIMUM OF CLASS III (OR C) FLAME-SPREAD CLASSIFICATION FLAME-SPREAD RATING OF 76 – 200 BASED ON ASTM E84 SMOKE DEVELOPED INDEX OF LESS THAN 450.
   - ALL VARIETIES OF WOOD (INCLUDING TONGUE AND GROVE, WOOD SLATS, PLYWOOD SHEETS) USED AS THE FINISHED WALL SURFACE ON THE SALES FLOOR AS FIXTURES, CASEWORK OR MILLWORK MAY BE FIRE-RETARDANT TREATED.
8. PROVIDE FIRE BLOCKING IN ACCORDANCE WITH SECTION 718.2 AT THE FOLLOWING LOCATIONS:
   - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AT THE CEILING AND FLOOR LEVELS.
   - IN CONCEALED SPACES OF STUD WALLS AND PARTIOITNS, INCLUDING FURRED SPACES, AT 10-FOOT INTERVALS ALONG THE LENGTH OF THE WALL.
   - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTALS SPACES SUCH AS THOSE OCCURING AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
   - IN CONCEALED SPACES BETWEEN STAIRWAY STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALL UNDER THE STAIR IS UNFINISHED.
   - IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS. WITH NONCOMBUSTIBLE MATERIALS.

FOOD SAFETY REQUIREMENTS

1. SEAL ALL WALL PENETRATIONS WITH COPPER WIRE MESH FOR PEST CONTROL.
2. SEAL ALL EXPOSED OSB OR PLYWOOD SHEATING WITH 2 COATS OF MINWAX WATER BASED HELMSMAN 275 VOC COMPLIANT FORMULA, UNO.

GENERAL REQUIREMENTS

1. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL CONTRACT DOCUMENTS. THE FAILURE TO REVIEW AND UNDERSTAND DOCUMENTS DOES NOT RELIEVE ANY RESPONSIBILITY FOR PROPERLY PREFORMING WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
2. REVIEW AND BID ALL CONTRACT DOCUMENTS, INCLUDING DRAWINGS, SPECIFICATIONS, AND ANY ADDITIONAL REQUIREMENTS DELIVERED AS RESPONSES TO BID QUESTIONS AND ADDENDUMS, BULLETINS OR REVISIONS. ALSO REVIEW AND BID OWNER PROVIDED DOCUMENTS, SUCH AS THE AGREEMENT WITH DEVELOPER, DESIGN DEVELOPMENT PACKAGE, EQUIPMENT CUT SHEETS, AND VENDOR SHOP DRAWINGS. NOTIFY THE ARCHITECT AND OWNER OF QUESTIONS OR DISCREPANCIES PRIOR TO BID SUBMISSIONS.
3. DO NOT SCALE DRAWINGS. DIMENSIONS SHOWN ON PLANS ARE TO FACE OF STUD OR CENTER LINE OF COLUMN, UNO.
4. FOLLOW SUBSTITUTION REQUESTS AS DESCRIBED WITHIN PROJECT MANUAL. NO DEVIATION FROM CONTRACT DRAWINGS AND SPECIFICATIONS ALLOWED WITHOUT APPROVAL OF THE ARCHITECT OR OWNER.
5. FOLLOW TYPICAL CONDITION DETAILS IN ASSUMPTION THAT ALL LIKE OR SIMILAR CONDITIONS ARE THE SAME UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE. BRING ANY DISCREPANCY QUESTIONS OF APPLICABLE DETAILS TO THE ATTENTION OF THE ARCHITECT FOR REVIEW IMMEDIATELY UPON DISCOVERY.
6. REPORT ANY DRAWING DISCREPANCIES FOUND IN THE FIELD IMMEDIATELY TO OWNER AND THE ARCHITECT PRIOR TO MAKING ANY STRUCTURAL MODIFICATIONS OR ORDERING ANY MATERIALS.
7. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF CONSTRUCTION ACTIVITIES.
8. PROVIDE ALL REQUIRED NOTICES FOR INSPECTIONS AND APPROVALS OF THE WORK BY THE AUTHORITY HAVING JURISDICTION. THE MOST RESTRICTIVE CODE REQUIREMENTS AS INTERPRETED BY LOCAL OFFICIALS APPLY.
9. FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS UNLESS IT IS SPECIFICALLY NOTED AS BEING FURNISHED BY OWNER. EVEN EQUIPMENT OR MATERIALS FURNISHED BY OWNER MAY REQUIRE UNLOADING BY THE GENERAL CONTRACTOR.
10. ORDER MATERIALS TO PROHIBIT DELAYS OF THE CONSTRUCTION SCHEDULE OF THIS PROJECT. COORDINATE DELIVERY OF ALL MATERIALS IN A TIMELY MANNER UPON A OWNER APPROVED CONSTRUCTION SCHEDULE.
11. ARRANGE PRECONSTRUCTION MEETING WITH ALL TRADES AND OWNER. MEETING SHALL TAKE PLACE PRIOR TO COMMENCING WORK OR ORDERING MATERIALS.
12. PROVIDE OR MAINTAIN EXISTING SANITARY FACILITIES DURING THE DURATION OF THIS PROJECT IN ACCORDANCE WITH UNIFORM PLUMBING CODE.
13. WORK IN A SAFE AND PROFESSIONAL MANNER AND IN STRICT ACCORDANCE WITH THE APPLICABLE HEALTH AND SAFETY, BUILDING CODES, AND ORDINANCES.
14. KEEP WORK AREA CLEAN AND FREE OF DEBRIS AND IS TO REMOVE ALL TRASH AND DEBRIS FROM THE CONSTRUCTION AREA DAILY.
15. PROTECT SLAB FROM DAMAGE OR STAINING.
16. REPAIR OR REPLACE ANY DAMAGE TO PROPERTY (ADJACENT OR EXISTING), WHICH OCCURS DURING THE PROCESS OF CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
17. CLEAN MUD AND REMOVE DEBRIS TRACKED ONTO EXTERIOR PAVING OR CITY STREETS DURING CONSTRUCTION ACTIVITIES.
18. COORDINATE CONCRETE WASH DOWN AREA WITH OWNER.
19. PROVIDE FINAL CLEANING AND SANITIZATION FOR ALL FOOD PREPARATION ROOMS, EQUIPMENT, RESTROOMS, DELI, AND BAKERY AREAS. OWNER MUST INSPECT AND APPROVE THIS WORK.
20. PROVIDE RECORD DRAWINGS AND WARRANTY DOCUMENTATION IN CONJUNCTION WITH THE CERTIFICATE OF OCCUPANCY. RECORD DRAWINGS SHALL PROVIDE AS BUILT INFORMATION INCLUDING GRAPHIC MODIFICATIONS OF ALL DEVIATIONS OCCURRING IN THE FIELD DURING CONSTRUCTION ACTIVITIES. CONSOLIDATE AND INCORPORATE ALL SUBCONTRACTORS' MODIFICATIONS INTO THE RECORD DRAWINGS. CONFIRM FORMAT WITH OWNER.
21. PROVIDE 1/4" CONTINUOUS CAULK / SEALANT AT ALL DISSIMILAR MATERIAL TRANSITIONS, PLUMBING FIXTURES, COUNTERS, ETC. UNO, COORDINATE WITH OWNER AND REFERENCE PROJECT MANUAL FOR SPECIFICATIONS.
22. PIPING AND CONDUIT INSTALLATIONS BEYOND CONSTRUCTION DOCUMENTS OR DETAIL OF EXTENT MUST BE REVIEWED BY OWNER ON ONSITE FOR APPROVAL. PROVIDE FURRING FOR CONDUITS AND PIPING AND FINISH OUT FURRING TO MATCH ADJACENT FINISHES PER OWNER APPROVAL.
23. AVOID EXPOSED UTILITY PIPING OR CONDUIT ALONG COOLER FREEZER PANELS. HOWEVER, WHERE UTILITIES MUST BE EXPOSED AT COOLER FREEZER PANELS, CONTRACTOR SHALL PROVIDE INSTALL FOLLOWING AN OPTION DESCRIBED BELOW:
    - SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS; SEAL PANEL CONTINUOUSLY WITH SEALANT.
    - INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING, USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.
    - COVER UTILITIES WITH 20 GAUGE STAINLESS STEEL BENT PLATES MOUNTED TO WALL WITH NON-CORROSIVE ANCHORS; APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS.
24. MINIMIZE IMPACT TO ROOF FRAMING AND ROOFING SYSTEM ALTERATIONS TO ELIMINATE POTENTIAL WATER DAMAGE OR MOISTURE INFILTRATION.
25. PROTECT ROOF MEMBRANE FROM PUNCTURE AT ALL TIMES AND CLEAN OR REMOVE DEBRIS BY OWNER TURNOVER.
26. PROVIDE LETTERING INDICATING UNIT NUMBERS ON ALL ROOF TOP UNITS.
27. MAINTAIN WEATHERPROOFING SYSTEMS AT ALL TIMES AND MAKE REPAIRS IMMEDIATELY SHOULD ANY DAMAGE OCCUR TO THE ROOFING SYSTEM.
28. ALL BLOCKING BY GC, COORDINATE WITH OWNER AND REFERENCE MILLWORK PLAN FOR LOCATIONS, CUT TO SIZE AS REQUIRED.
29. ALL GYP BOARD CORNERS TO RECEIVE CORNER BEAD, ALL GYP BOARD ENDINGS TO RECEIVE J OR L TRIM BASED ON LOCATION.
30. SHELL CONSTRUCTION SHOWN HALFTONE FOR REFERENCE ONLY.
31. NO VISIBLE INSULATION AT GLAZING OR FRAMING.

SYMBOLS LEGEND

- NEW
- EXISTING
- 1 / A101 — SECTION INDICATOR
- 1 / A101 — ELEVATION INDICATOR
- 1 / A101 — DETAIL INDICATOR
- 0 — GRIDLINE INDICATOR
- Name / Elevation — LEVEL INDICATOR
- 101 ROOM NAME — ROOM TAG
- 1 a,c,b,d — REVISION TAG
- ? — FINISH TAG
- A6 — WALL TAG
- 205A — DOOR TAG
- LT## — LIGHTING TAG
- X.### — EQUIPMENT TAG

ABBREVIATION LEGEND

XX	DEFINITION
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BO	BOTTOM OF
BOH	BACK OF HOUSE
BOS	BOTTOM OF STEEL OR BOTTOM OF STUD
CFS	COLD FORMED STEEL
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
DEMO	DEMOLISH/DEMOLITION
DIA	DIAMETER
DIM	DIMENSION/DIMENSIONAL
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEC	ELECTRICAL
EQ	EQUAL
ETR	EXISTING TO REMAIN
EXT	EXTERIOR
FF	FINISHED FLOOR
FOH	FRONT OF HOUSE
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
GA	GAUGE
GC	GENERAL CONTRACTOR
GYP	GYPSUM BOARD
H	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
INFO	INFORMATION
ISO	ISOLATION
L	LENGTH
LB	POUNDS
LL	LANDLORD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEPFR	MECHANICAL, ELECTRICAL, PLUMBING, FIRE, REFRIGERATION
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
MW	MILLWORK
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCV	ON CENTER VERTICALLY
OH	OPPOSITE HAND
OTS	OPEN TO STRUCTURE
PAF	POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAR FOOT
PLY	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
REF	REFER TO
REINF	REINFORCING
RO	ROUGH OPENING
RR	RESTROOM
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STR	STRUCTURAL
TI	TENANT IMPROVEMENT
TO	TOP OF
TOS	TOP OF STEEL OR TOP OF STUD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCJ	VERTICAL CONTROL JOINT
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOC	VOLATILE ORGANIC COMPOUND
W	WIDTH
WD	WOOD
WTD	WALL TO DECK

FASTENER SCHEDULE

THESE ARE MINIMUM REQUIREMENTS FOR CONNECTING AND ATTACHING INTERIOR NON-STRUCTURAL FRAMING MEMBERS AND SHALL NOT SUPERSEDE STRUCTURAL REQUIREMENTS

MATERIALS	SIZE	DRIVER DESIGN	HEAD	LENGTH	TIP	THREADS	QUANTITY
DRYWALL TO METAL FRAMING	#10 WITH SERRATIONS	PHILLIPS #2	PANCAKE	1/2" MIN PENETRATION BEYOND METAL FRAMING	SD	FINE	TO MEET THE GYPSUM ASSOCIATION GUIDELINES
METAL STUD TO TRACKS	#10 WITH SERRATIONS	PHILLIPS #2	PANCAKE	3/4" MIN	SD	---	ONE PER STUD FLANGE
METAL TO METAL FRAMING	#10 WITH SERRATIONS	HEX	HEX	3/4" MIN	SD	---	AS SHOWN ON DETAILS WITH MIN 1-1/2" BETWEEN EACH (MIN 3)
DRYWALL TO METAL FRAMING	#8	PHILLIPS #2	BH	1/2" MIN PENETRATION BEYOND THE STUD	ST	FINE	TO MEET THE GYPSUM ASSOCIATION GUIDELINES
SHEET METAL TO STEEL	#12	HEX	HEX	1/2" MIN PENETRATION BEYOND THE STEEL THICKNESS	SD	---	AS SHOWN ON DETAILS WITH MIN 1-1/2" BETWEEN EACH
CEMENT BOARD TO METAL FRAMING	#8 COATED	PHILLIPS #2	WAFER	1/2" MIN PENETRATION BEYOND METAL FRAMING	SD	H/L	TO MEET THE GYPSUM ASSOCIATION GUIDELINES
CEMENT BOARD TO WOOD FRAMING	#9 COATED	PHILLIPS #2	WAFER	3/4" PENETRATION INTO WOOD	ST	H/L	TO MEET THE GYPSUM ASSOCIATION GUIDELINES
WOOD TO STEEL	#12	HEX	HEX	1/2" MIN PENETRATION BEYOND THE STEEL THICKNESS	SD	---	AS SHOWN ON DETAILS
WOOD TO STEEL	.157" DIA	PAF	---	PENETRATION THROUGH STEEL	KS	---	AS SHOWN ON DETAILS
WOOD TO METAL FRAMING	#12	PHILLIPS #3	FLAT	1/2" MIN PENETRATION BEYOND METAL FRAMING	SD	---	AS SHOWN ON DETAILS
METAL STUD TRACK TO CONCRETE FLOOR	1/4"	HEX	HEX	1-1/2" MIN EMBEDMENT	---	---	(2) AT 16" OC - LOCATE 1/4" FROM EDGE OF TRACK
METAL STUD TRACK TO CONCRETE FLOOR	.157" DIA	PAF	---	1-1/4" MIN EMBEDMENT	KS	---	(2) AT 16" OC - LOCATE 1/4" FROM EDGE OF TRACK
METAL STUD TRACK TO COOLER PANEL	#12	HEX	HEX	1-1/2" MAX EMBEDMENT	SD	---	AS SHOWN ON DETAILS

ABBREVIATION	DEFINITION
BH	BUGLE HEAD (FLAT HEAD, COUNTERSUNK)
BP	BLACK PHOSPHATE OVER CARBON STEEL
HEX	SLOTTED HEX WASHER
H/L	HIGH / LOW
KS	KNURLED SHANK
PAF	POWDER ACTUATED FASTENER
SD	SELF DRILLING
ST	SELF TAPPING

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER

62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISLER
NUMBER A-2007019644
REGISTERED ARCHITECT

11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

GENERAL INFORMATION

SHEET NUMBER

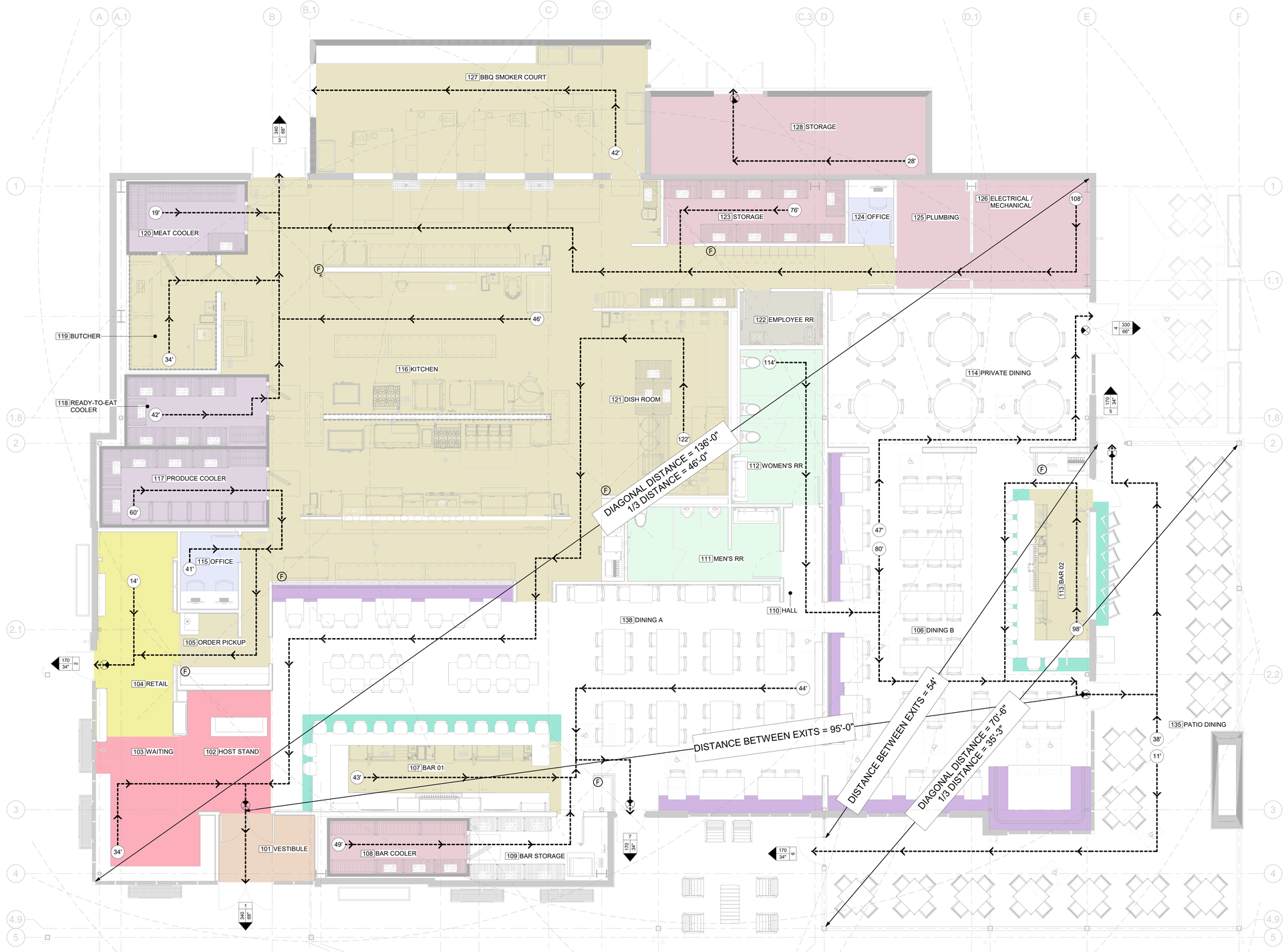
A002

RESTROOM FIXTURE COUNT

OCCUPANCY	OCCUPANTS	M/F COUNT	WC RATIO	WC REQ'D MALE	WC REQ'D FEMALE	LAV RATIO	LAV REQ'D MALE	LAV REQ'D FEMALE
ASSEMBLY	409	205	75	2.73	2.73	200	1.03	1.03
PREP	17	9	75	0.12	0.12	200	0.05	0.05
BUSINESS	1	1	25	0.04	0.04	40	0.03	0.03
RESTROOM BOH	1	1	100	0.01	0.01	100	0.01	0.01
SALES	4	2	500	0.01	0.01	750	0.01	0.01
VESTIBULE	16	8	500	0.02	0.02	750	0.01	0.01
COOLER/FREEZER	2	1	100	0.01	0.01	100	0.01	0.01
STORAGE	3	2	100	0.02	0.02	100	0.02	0.02
TOTALS:	453			2.96	2.96		1.16	1.16
ROUNDED TOTALS:				3	3		2	2

SHEET NOTES

1. REFERENCE ELECTRICAL FOR EXIT SIGNAGE AND EMERGENCY LIGHTING, SHOWN FOR REFERENCE ONLY
2. GC TO PROVIDE ALL FIRE EXTINGUISHERS. COORDINATE LOCATION, TYPE, AND REQUIREMENTS WITH INSPECTOR, FIRE MARSHAL, AND OWNER. ORIENT TOWARD BACK OF HOUSE WHERE POSSIBLE. CONFIRM REQUIREMENT FOR RECESSED CABINETS WITH OWNER.
3. CENTER EXIT SIGNS ABOVE DOOR, IN HALLWAY, UNO



SYMBOLS LEGEND

OCCUPANCIES

- ASSEMBLY (A-2)
- ASSEMBLY (STANDING)
- BAR STOOLS
- BENCH SEATING
- BUSINESS
- COOLER / FREEZER
- MERCANTILE
- PREP
- RESTROOM (BOH)
- STORAGE
- VESTIBULE
- X

- PATH OF TRAVEL
- DOOR NUMBER
- OCCUPANT LOAD
- EXIT TAG
- CLEAR WIDTH
- TRAVEL DISTANCE
- FIRE EXTINGUISHER COVERAGE
- FIRE EXTINGUISHER
- TYPE K EXTINGUISHER AT INDICATED LOCATIONS
- EXIT SIGN

EXIT CAPACITY

EXIT DOOR	EXIT WIDTH (IN)	UNIT FACTOR	OCCUPANTS
1	68	0.2	340
2	34	0.2	170
3	68	0.2	340
4	66	0.2	330
5	34	0.2	170
6	34	0.2	170
7	34	0.2	170

TOTALS

REQUIRED	96		453
PROVIDED	338		1690

OCCUPANT LOAD

OCCUPANCY	AREA (SF)	LOAD FACTOR	OCCUPANTS	WIDTH FACTOR	REQUIRED WIDTH (IN)
ASSEMBLY (A-2)	3687	15	246	0.2	50
ASSEMBLY (STANDING)	323	5	65	0.2	13
BAR STOOLS	165	---	30	0.2	6
BENCH SEATING	1624 IN	24 IN/OCC	68	0.2	14
BUSINESS	90	150	1	0.2	1
COOLER / FREEZER	369	300	2	0.2	1
MERCANTILE	209	60	4	0.2	1
PREP	3321	200	17	0.2	4
RESTROOM (BOH)	54	200	1	0.2	1
STORAGE	860	300	3	0.2	1
VESTIBULE	80	5	16	0.2	4
TOTALS	9407		453		96

CODE ANALYSIS

BUILDING AND SPACE ARE FULLY SPRINKLERED

TOTAL OCCUPANT LOAD (REF LIFE SAFETY PLAN FOR ADDITIONAL INFORMATION)

TOTAL OCCUPANT LOAD	453

EGRESS (REF LIFE SAFETY PLAN FOR ADDITIONAL EGRESS INFORMATION)

EGRESS WIDTH REQUIRED	96"
EGRESS WIDTH PROVIDED	306"
MAXIMUM COMMON PATH OF TRAVEL	75'
MAXIMUM TRAVEL DISTANCE	250'
MINIMUM AISLE WIDTH	36"

PLUMBING FIXTURE COUNT (PER CHAPTER 29 BUILDING CODE)

LAVATORY FACTOR	1/200 MALE 1/200 FEMALE
MALE LAVATORIES REQUIRED / PROVIDED	2/2
FEMALE LAVATORIES REQUIRED / PROVIDED	2/2
UNISEX LAVATORIES REQUIRED / PROVIDED	0/1
WATER CLOSET FACTOR	1/75 MALE 1/75 FEMALE
MALE WATER CLOSETS/URINALS REQUIRED / PROVIDED	3/3
FEMALE WATER CLOSETS REQUIRED / PROVIDED	3/3
UNISEX WATER CLOSETS REQUIRED / PROVIDED	0/1

ACCESSIBLE SEATING REQUIREMENTS

TOTAL SEATS PROVIDED	309
ACCESSIBILITY FACTOR	5%
ACCESSIBLE SEATS REQUIRED/PROVIDED	16/16

1 LIFE SAFETY PLAN
1/4" = 1'-0"
PLAN

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER 62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK ECHTERLER
NUMBER A-2023017324
ENGINEER

12/9/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET
2	12/09/25	ADDENDUM 01

SHEET NAME

LIFE SAFETY PLAN

SHEET NUMBER

A003

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SHEET NOTES

1. REFERENCE KITCHEN VENDOR DRAWINGS FOR EQUIPMENT SCHEDULES AND RESPONSIBILITY
2. GC TO INSTALL OWNER FURNISHED ITEMS, EXCEPT TRIMARK KITCHEN VENDOR EQUIPMENT, THIS INCLUDES RECEIVING, UNLOADING, ASSEMBLY, AND INSTALLATION
3. GC TO INSTALL ALL OWNER FURNISHED MISCELLANEOUS ACCESSORIES INCLUDING BUT NOT LIMITED TO:
   -BUG LIGHTS
   -SOAP DISPENSERS
   -PAPER TOWELS
   -TELEPHONES

SYMBOLS LEGEND

GC VENDOR MILLWORK - DESIGNED, FURNISHED, AND INSTALLED BY GC'S MILLWORK CONTRACTOR

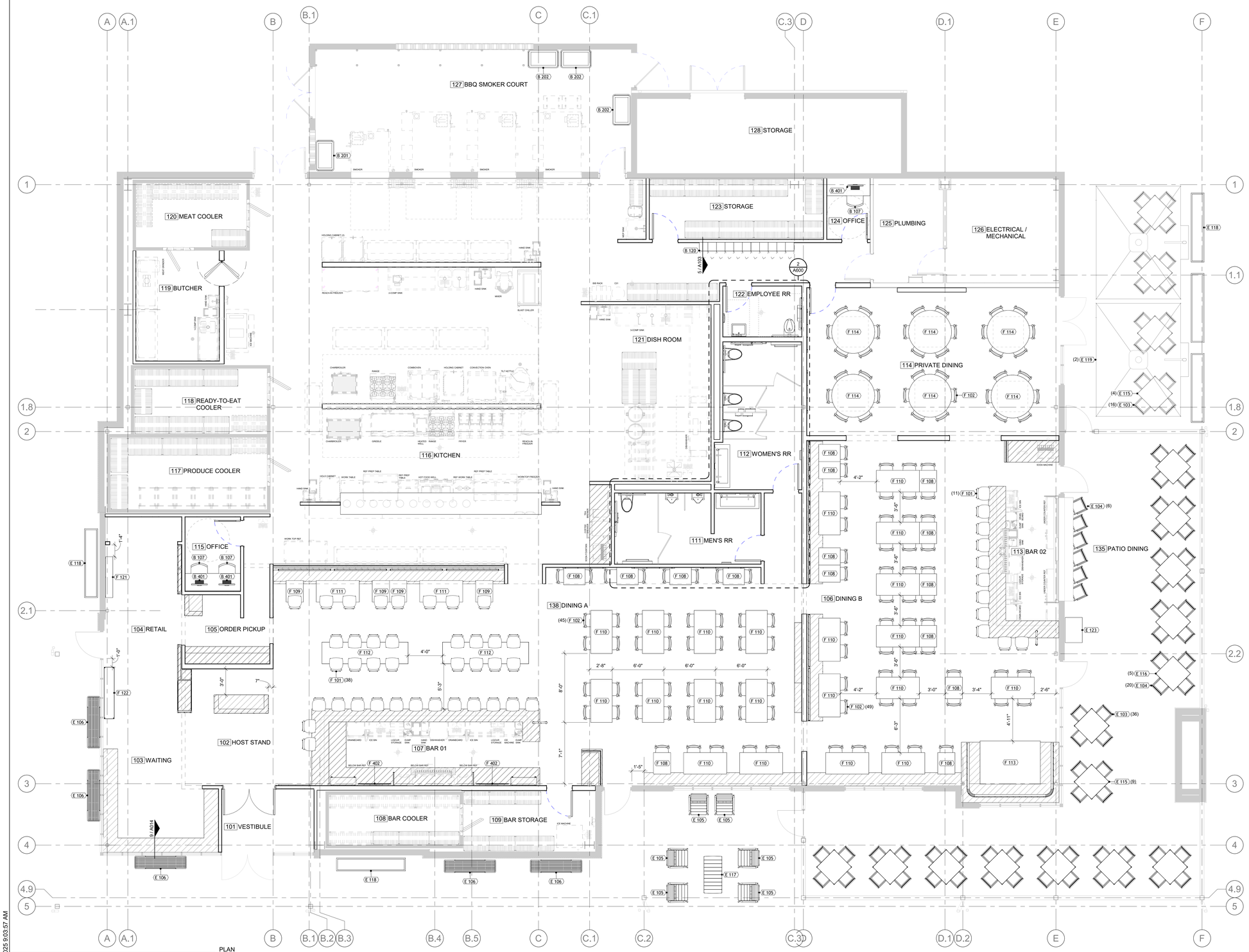
OWNER PROVIDED FURNITURE - FURNISHED BY OWNER AND INSTALLED BY GC

KITCHEN EQUIPMENT TO BE SPECIFIED, FURNISHED, AND INSTALLED BY OWNERS KITCHEN CONSULTANT; REF MEP FOR ALL UTILITIES, CONNECTIONS, ETC.

EXISTING SHELL CONSTRUCTION

EQUIPMENT SCHEDULE

MARK	QTY	MANUFACTURER	MODEL	DESCRIPTION
R 322	4	DELTA COMMERCIAL	REF MEP	DRIFTEX FAUCET, MATTE BLACK
R 323	1	BOBRICK	B-4369	RECESSED PAPER TOWEL DISPENSER
B - BACK OF HOUSE				
B 107	3	TBD	TBD	TASK CHAIR
B 120	11	VANGUARD	3 TIER	LOCKERS
B 201	1	BY OWNER	BY OWNER	DIRTY GREASE BIN
B 202	3	BY OWNER	BY OWNER	DIRTY LAUNDRY BIN
B 401	3	BY OWNER'S AV SUPPLIER	BY OWNER'S AV SUPPLIER	COMPUTER STATION
E - EXTERIOR				
E 103	52	THOMAS STEELE	MNCF-HS-P	OUTDOOR DINING CHAIR
E 104	26	THOMAS STEELE	MNCFB-HS-P	OUTDOOR BAR STOOL
E 105	20	FORMS AND SURFACES	SCVYA-W	VAYA CHAIR, FSC 100% CUMARU HARDWOOD SLATS, FREESTANDING
E 106	8	FORMS AND SURFACES	SBCIR-72T	CIRCUIT BENCH, FSC RECYCLED 100% TEAK HARDWOOD SLATS, FREESTANDING
E 115	13	THOMAS STEELE	MNT-3-WI-P	MONONA SQUARE DINING TABLE
E 116	5	THOMAS STEELE	MNTB-3-WI-P	MONONA SQUARE BAR TABLE
E 117	3	FORMS AND SURFACES	STVYA-2552W	VAYA COFFEE TABLE, 25x52", FSC 100% CUMARU HARDWOOD SLAT TABLE TOP, FREESTANDING
E 118	5	TOURNESOL	WWR-AL961830	96"L x 18"W x 30"H PLANTER; MATTE BLACK
E 119	2	EMU	SHADEPRO	CANTILEVER SUNSHADE, JACKS MIDNIGHT
E 123	1	DISPLAYS2GO	IAPCW36	36" CASH REGISTER STAND W/ LOCKING DRAWER, ADJUSTABLE SHELF, BLACK
F - FRONT OF HOUSE				
F 101	49	TBD	TBD	BAR STOOL
F 102	130	TBD	TBD	DINING CHAIR
F 108	15	TBD	TBD	2-PERSON DINING TABLE
F 109	4	TBD	TBD	2-PERSON BAR TABLE
F 110	21	TBD	TBD	4-PERSON DINING TABLE
F 111	2	TBD	TBD	4-PERSON BAR TABLE
F 112	2	TBD	TBD	COMMUNITY TABLE
F 113	1	TBD	TBD	U-BOOTH TABLE
F 114	6	TBD	TBD	DROP LEAF ROUND TABLE
F 121	2	JT INDUSTRIAL DESIGNS	68"W	EXTRA LONG SHELF WITH HANGER RACK, HONEY
F 122	1	JT INDUSTRIAL DESIGNS	72"L X 14"D X 74"H	WIDE DEPTH INDUSTRIAL STYLE SHELVING, HONEY
F 124	15	ARMSTRONG CEILINGS	8174T10T	96"X24" DIRECT ATTACH ACOUSTIC CEILING PANEL, COFFEE
F 125	20	ARMSTRONG CEILINGS	8173T10T	96"X48" DIRECT ATTACH ACOUSTIC CEILING PANEL,COFFEE
F 402	2	BY AV SUPPLIER	BY AV SUPPLIER	50" LED TV
R - RESTROOM				
R 203	1	CASCADES PRO	TANDEM C233	TOILET PAPER DISPENSER
R 204	1	BOBRICK	B-5806.99-42	42" GRAB BAR, 1 1/4" DIAMETER
R 205	1	BOBRICK	B-5806.99-18	18" GRAB BAR, 1 1/4" DIAMETER
R 206	1	BOBRICK	B-5806.99-36	36" GRAB BAR, 1 1/4" DIAMETER
R 207	1	BOBRICK	B-270	SANITARY NAPKIN DISPOSAL
R 208	1	BOBRICK	B-221	SEAT COVER DISPENSER
R 209	2	KOALA KARE	KB310-SSWM	KB310-SSWM Baby Changing Station Closed Position
R 210	2	BOBRICK	B-9806-18	1½" DIA. 18" STAINLESS STEEL GRAB BAR WITH CONCEALED FLANGE, MATTE BLACK
R 211	2	BOBRICK	B-9806-36	1½" DIA. 36" STAINLESS STEEL GRAB BAR WITH CONCEALED FLANGE, MATTE BLACK
R 212	2	BOBRICK	B-9806-42	1½" DIA. 42" STAINLESS STEEL GRAB BAR WITH CONCEALED FLANGE, MATTE BLACK
R 213	4	BOBRICK	B-221	SURFACE MOUNTED SEAT COVER DISPENSER, MATTE BLACK
R 214	4	BY OWNER	BY OWNER	TOILET PAPER DISPENSER
R 215	3	BOBRICK	B-35139	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL, MATTE BLACK
R 216	1	BOBRICK	B-165	MIRROR
R 217	5	BY OWNER	BY OWNER	SOAP DISPENSER
R 218	4	KOHLER Co.	K-26052-BLL	RECTANGLE MIRRO 22IN X 34IN MATTE BLACK
R 219	2	BOBRICK	B-38032.MBLK	TRIMLINE SERIES PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
R 302	4	SLOAN	REF MEP	WALL MOUNTED WATER CLOSET, WHITE
R 303	1	REF MEP	REF MEP	FLOOR MOUNTED WATER CLOSET, WHITE
R 304	1	REF MEP	REF MEP	WALL MOUNTED LAVATORY, WHITE
R 305	2	TRUEFORM CONCRETE	FLO-60V-ADA	GRAPHITE
R 306	2	SLOAN VALVE	REF MEP	URINAL, WHITE



1 FIXTURE PLAN
1/4" = 1'-0"

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WWW.BRRARCH.COM
TEL: 913-262-9096
FAX: 913-262-9044

CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISLER
NUMBER A-2007018424
ARCHITECT
11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

FIXTURE PLAN

SHEET NUMBER

A010

SHEET NOTE:
ALL MILLWORK SHOWN IN BELOW PLAN IS TO BE FURNISHED BY GC'S MILLWORK CONTRACTOR. ALL MILLWORK IS CUSTOM; AOR HAS GIVEN DESIGN GUIDANCE AND WILL COORDINATE WITH CONTRACTOR DURING SHOP DRAWING PHASE. THE RELATED FOLLOWING SHEETS ARE FOR REFERENCE TO COORDINATE DESIGN INTENT AND CONSTRUCTABILITY. COORDINATE SCOPE OF MILLWORK WITH OWNER FOR BIDDING PURPOSES.

SHEET NOTES

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5. GC TO COORDINATE ALL UTILITIES NEEDED IN WALLS OR INTEGRATED IN THE MILLWORK
6. ALL MILLWORK IS TO COMPLY WITH HEALTH DEPARTMENT REQUIREMENTS.

SYMBOLS LEGEND

GC TO COORDINATE WITH OWNER FOR RESPONSIBILITY OF WHO PROVIDES AND INSTALLS ALL ITEMS SHOWN HATCHED IN PLAN. CONFIRM PRIOR TO BID CLOSE.

GC VENDOR MILLWORK - DESIGNED, FURNISHED, AND INSTALLED BY GC'S MILLWORK CONTRACTOR

SHELVING ABOVE, REF 7 / A103

DECOR BLOCKING, REF 9 / A103
THIS FACE

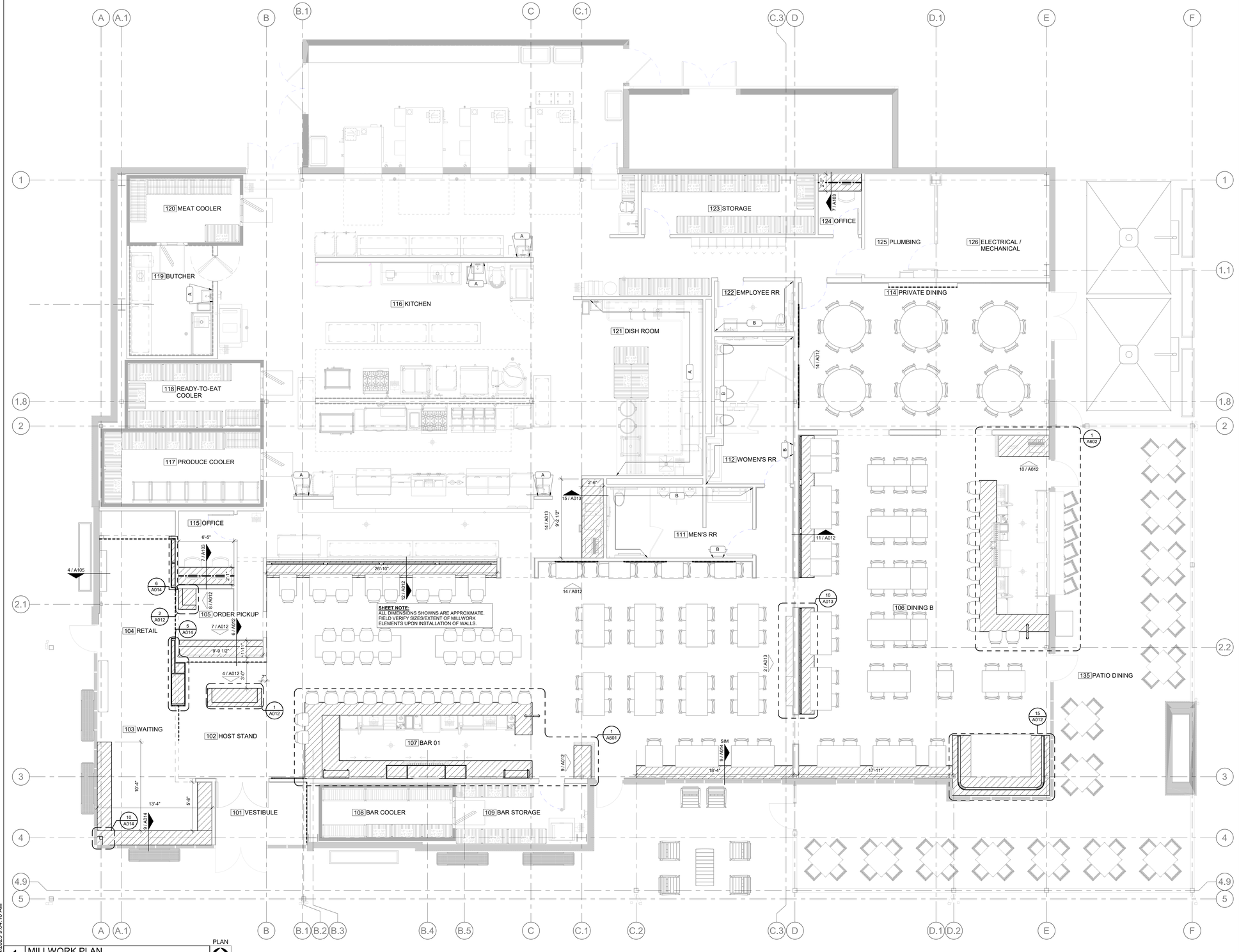
2X BLOCKING BETWEEN STUDS PER HEIGHTS BELOW

A — 12" TO 84" AFF AT SINKS WITHOUT HOSE BIBS

3/4" PLYWOOD BLOCKING BETWEEN STUDS PER HEIGHTS BELOW

B — 15" TO 72" AFF AT RESTROOM FIXTURES

C — 6" TO 84" AFF AT HOSE BIBS



1 MILLWORK PLAN
1/4" = 1'-0"
PLAN

11/14/2025 9:04:10 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:48

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NUMBER A-2003014024
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ISSUES AND REVISIONS

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1	11/17/25	PERMIT SET

SHEET NAME

MILLWORK PLAN

SHEET NUMBER

A011

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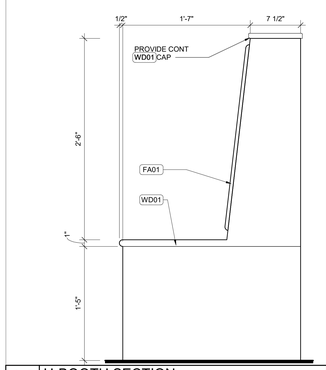
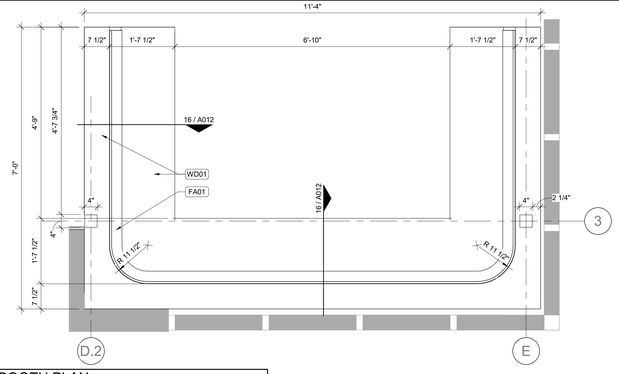
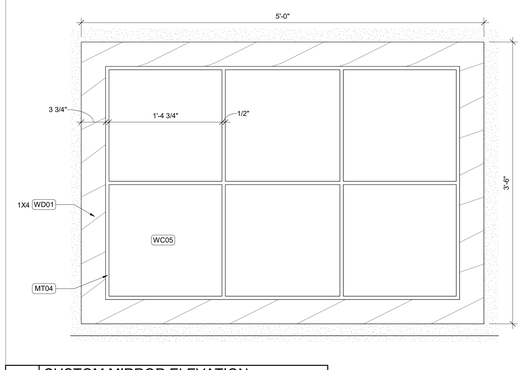


16 U-BOOTH SECTION
1 1/2" = 1'-0"



15 U-BOOTH PLAN
3/4" = 1'-0"



14 CUSTOM MIRROR ELEVATION
1 1/2" = 1'-0"

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1. ALL MILLWORK ELEMENTS SHOWN ARE TO BE ENGINEERED, FABRICATED, AND DELIVERED BY THE GC'S MILLWORK VENDOR AND INSTALLED BY THE GC OR SAID VENDOR. BRR MILLWORK DETAILS SHOWN FOR REFERENCE ONLY.
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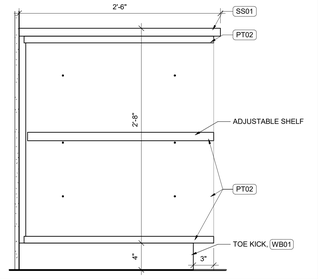
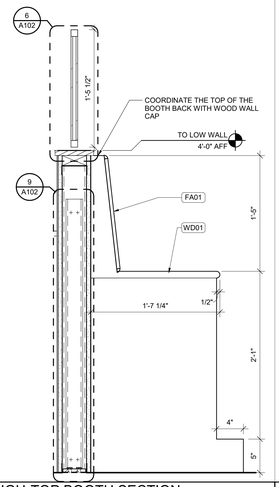
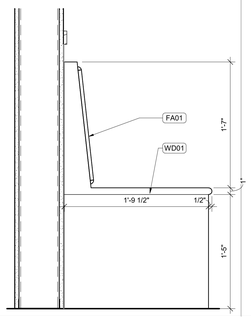


13 SERVER STATION SECTION
1 1/2" = 1'-0"



12 HIGH-TOP BOOTH SECTION
1 1/2" = 1'-0"



11 DINING BOOTH SECTION
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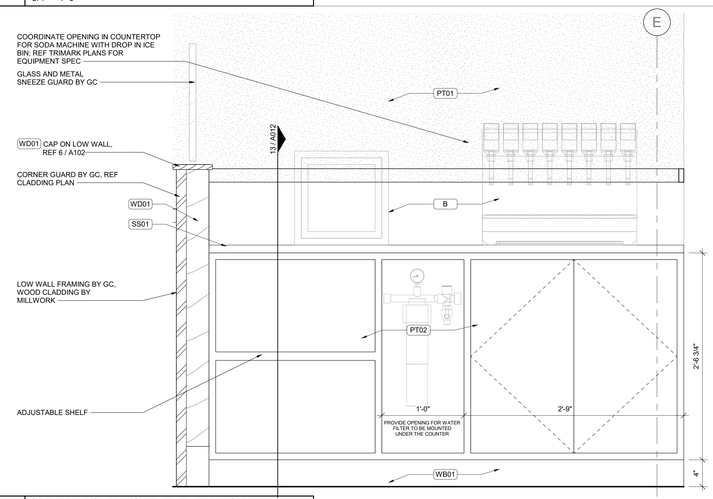
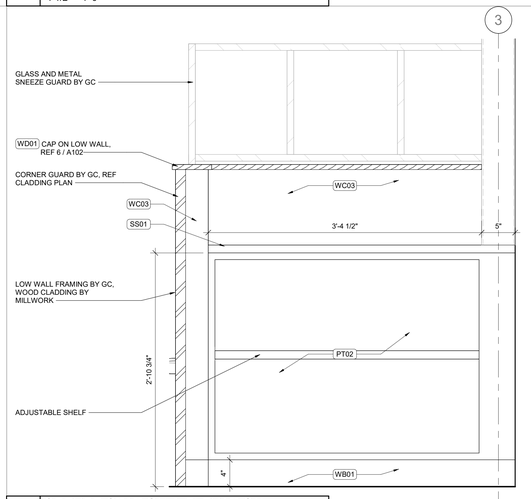
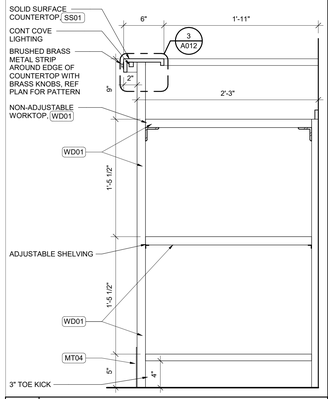


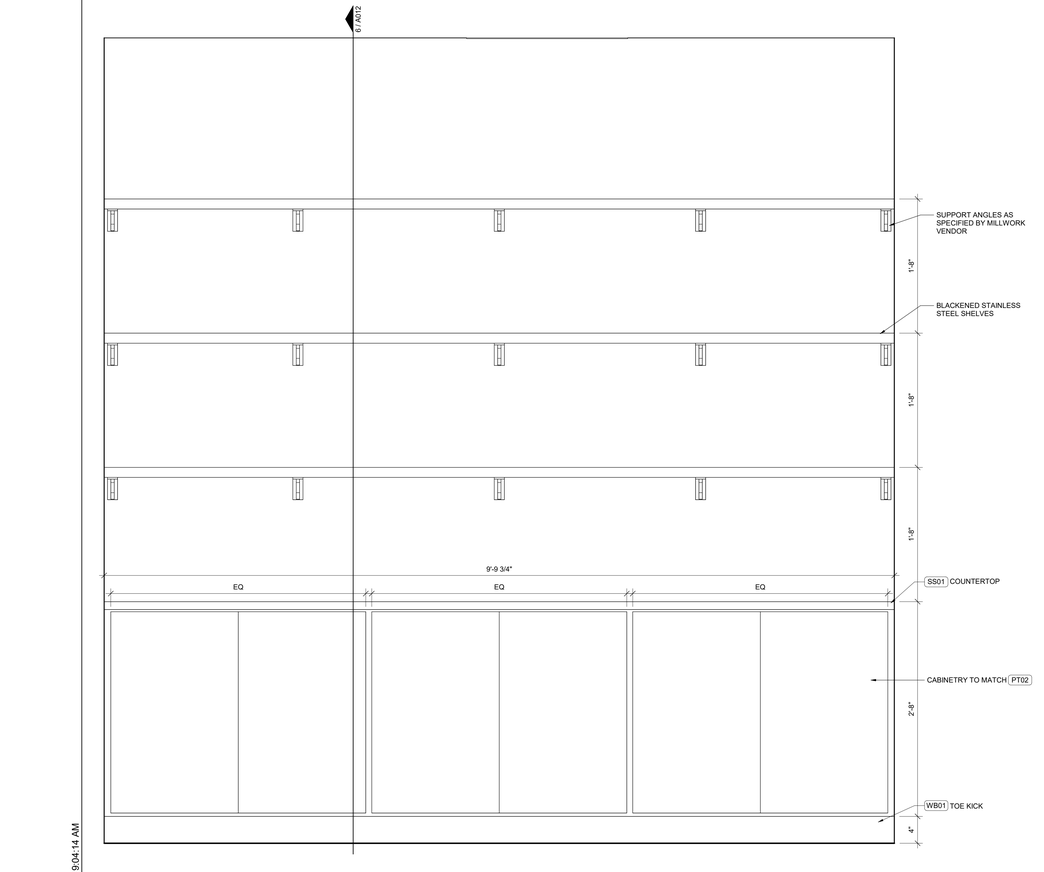
10 SERVER STATION B ELEVATION
1 1/2" = 1'-0"



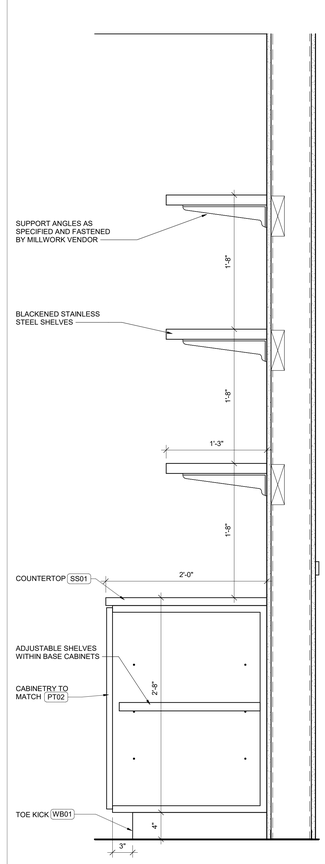
9 SERVER STATION A ELEVATION
1 1/2" = 1'-0"



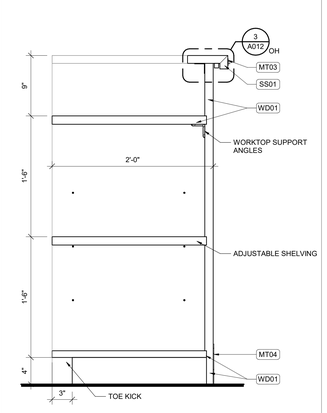
8 PICKUP STAND ELEVATION
1 1/2" = 1'-0"



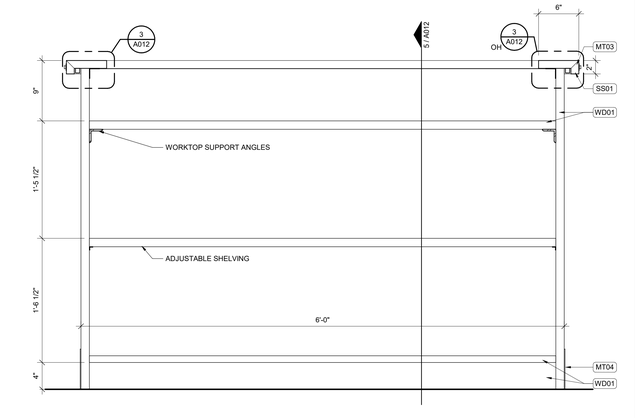
7 PICKUP COUNTER ELEVATION
1 1/2" = 1'-0"



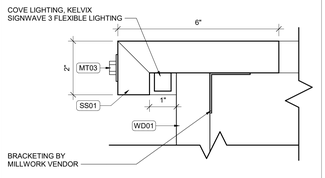
6 PICKUP COUNTER SECTION
1 1/2" = 1'-0"



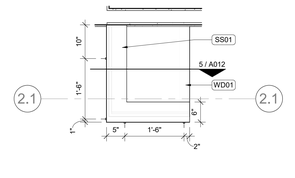
5 HOST STAND SECTION 01
1 1/2" = 1'-0"



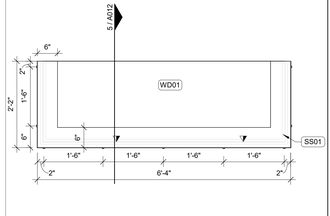
4 HOST STAND ELEVATION
1 1/2" = 1'-0"



3 HOST STAND COUNTERTOP
6" = 1'-0"



2 Q2GO STAND PLAN
3/4" = 1'-0"



1 HOST STAND PLAN
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
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OLDHAM VILLAGE

PROJECT NUMBER
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PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK ECHERER
NUMBER A-2006018624
ARCHITECT

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
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SHEET NAME

MILLWORK DETAILS

SHEET NUMBER

A012

11/14/2025 9:04:14 AM

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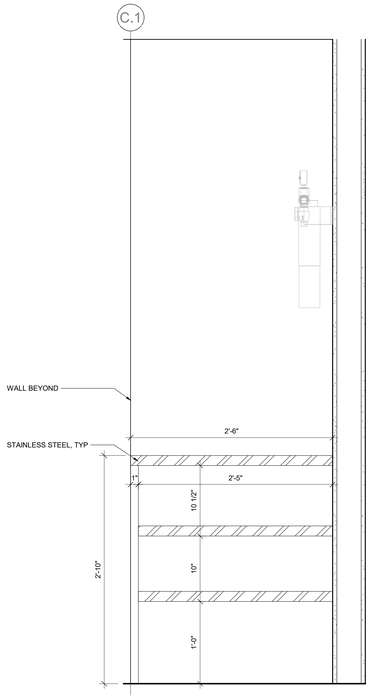
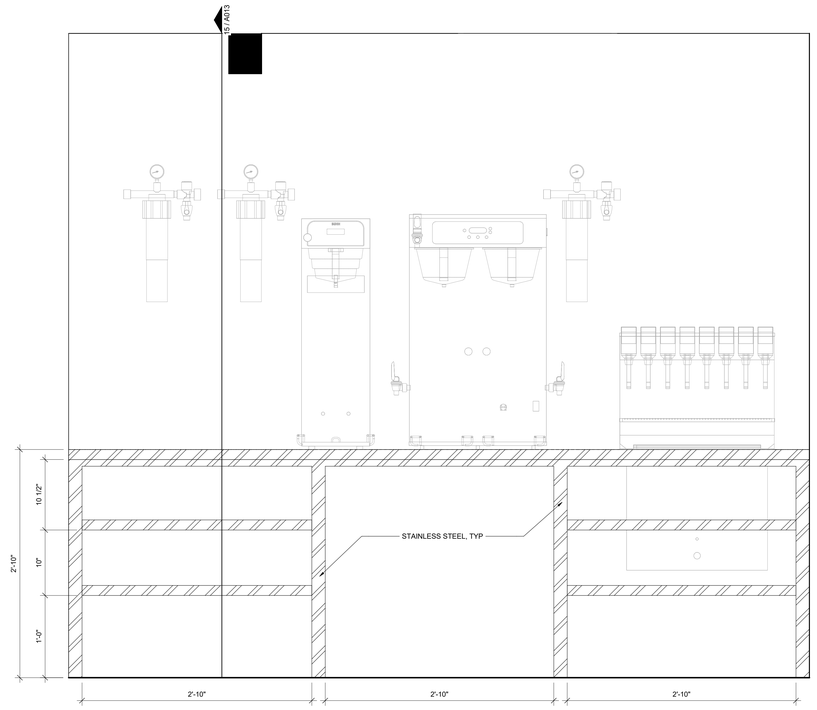
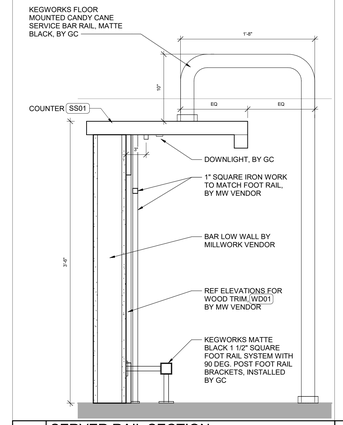


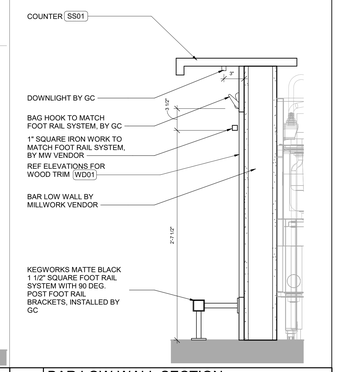
15 BOH SERVER STATION SECTION
1 1/2" = 1'-0"



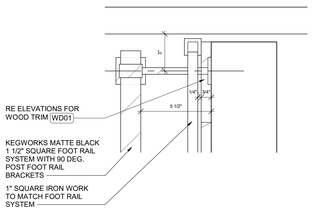
14 BOH SERVER STATION ELEVATION
1 1/2" = 1'-0"



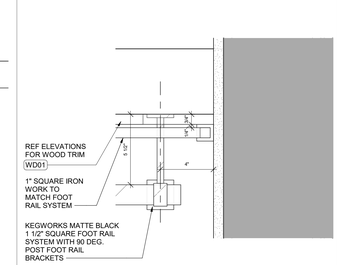
13 SERVER RAIL SECTION
1 1/2" = 1'-0"



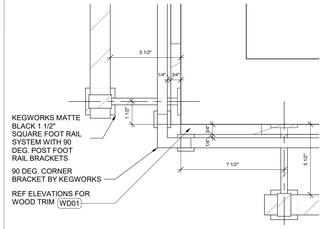
12 BAR LOW WALL SECTION
1 1/2" = 1'-0"



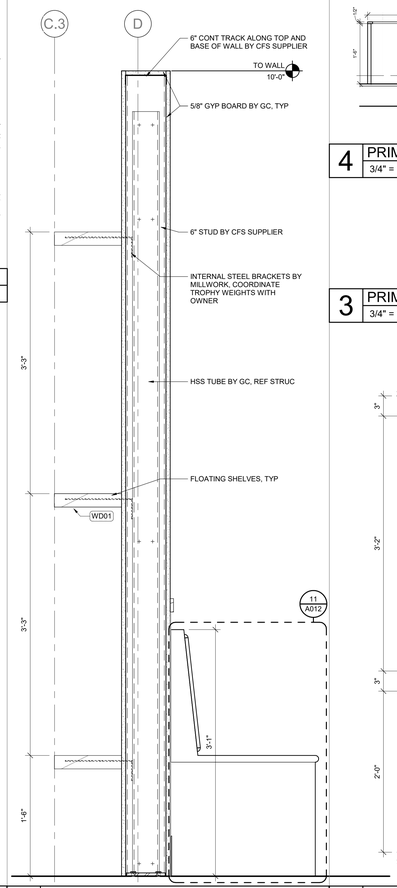
11 BAR IRONWORK END 01
3" = 1'-0"



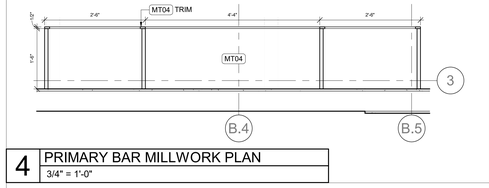
9 BAR IRONWORK END 02
3" = 1'-0"



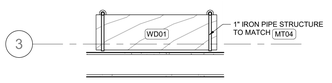
7 BAR CORNER IRONWORK
3" = 1'-0"



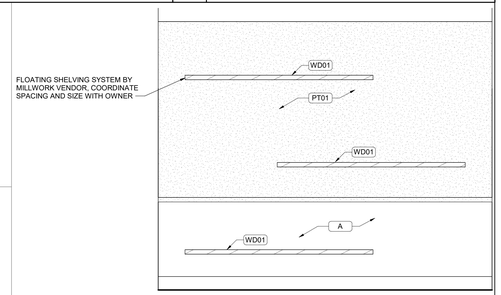
5 TROPHY CASE SECTION
1 1/2" = 1'-0"



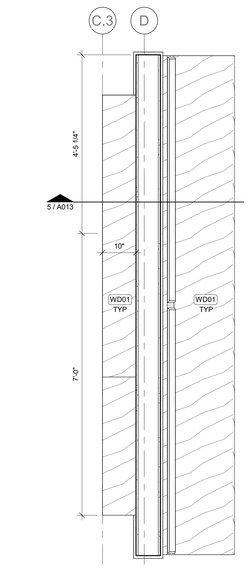
4 PRIMARY BAR MILLWORK PLAN
3/4" = 1'-0"



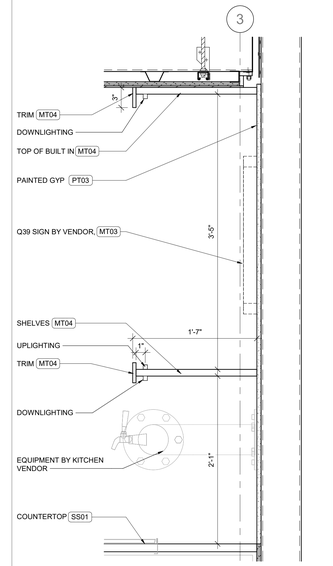
3 PRIMARY BAR IRON SHELVING PLAN
3/4" = 1'-0"



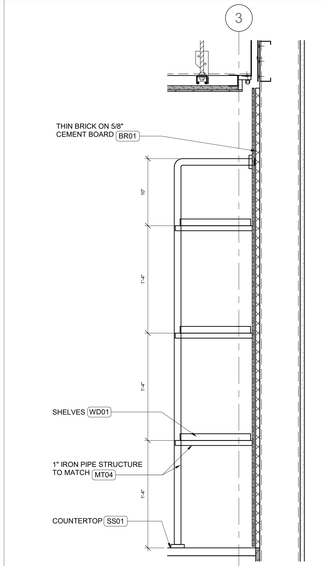
2 TROPHY CASE ELEVATION
1/2" = 1'-0"



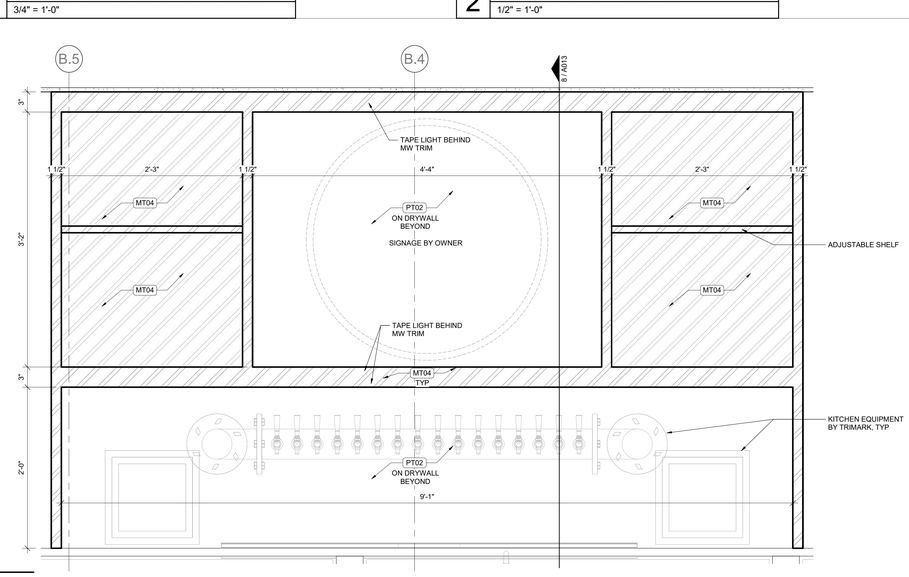
10 TROPHY SHELVES PLAN
3/4" = 1'-0"



8 PRIMARY BAR MILLWORK SHELVING
1 1/2" = 1'-0"



6 PRIMARY BAR IRON SHELVING
1 1/2" = 1'-0"



1 PRIMARY BAR MW ELEVATION
1 1/2" = 1'-0"

ARCHITECT OF RECORD

brr

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8131 METCALF AVENUE
SUITE 302
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FAX: 913-262-9044

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OLDHAM VILLAGE

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MARK SCHERER
NUMBER A-2003013441
ARCHITECT

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MILLWORK DETAILS

SHEET NUMBER

A013

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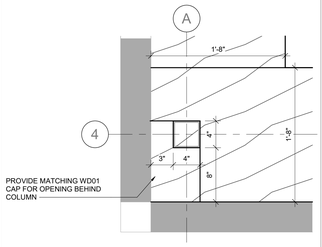
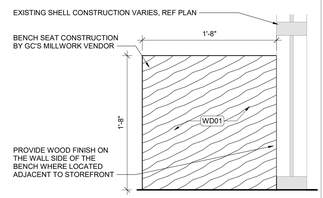


10 WAITING BENCH SEAT CORNER
1 1/2" = 1'-0"



9 BENCH SEATING
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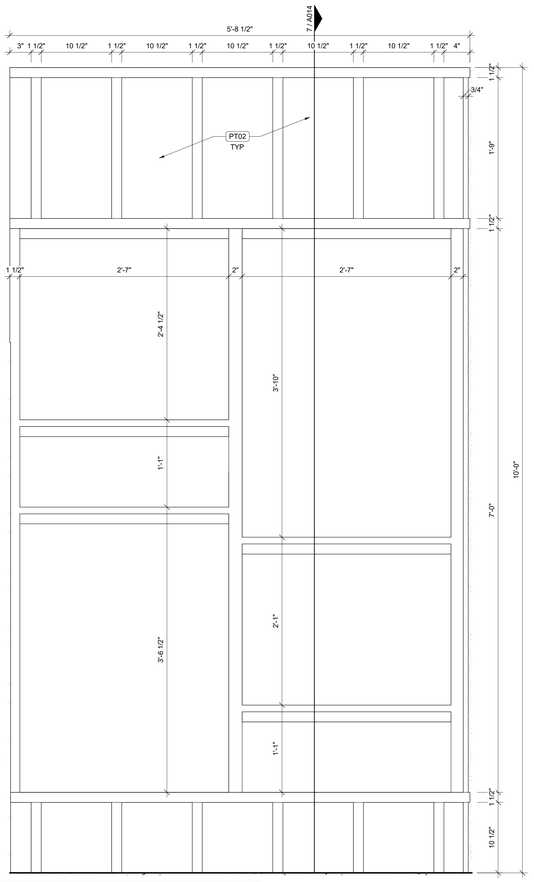
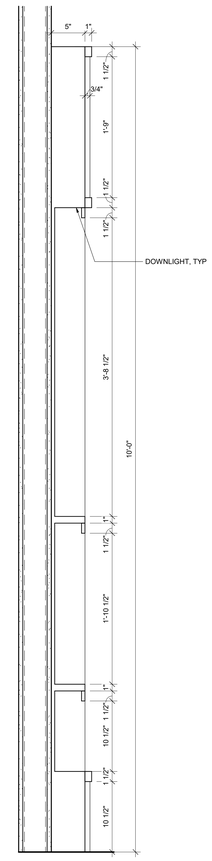
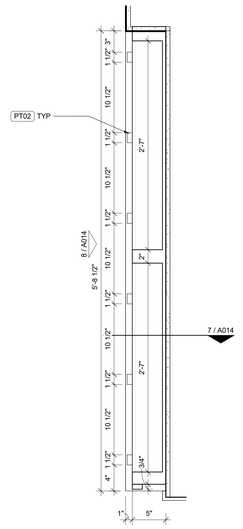


8 RETAIL SHELVING B
1 1/2" = 1'-0"



7 RETAIL SHELVING B SECTION 01
1 1/2" = 1'-0"



6 RETAIL SHELVING B
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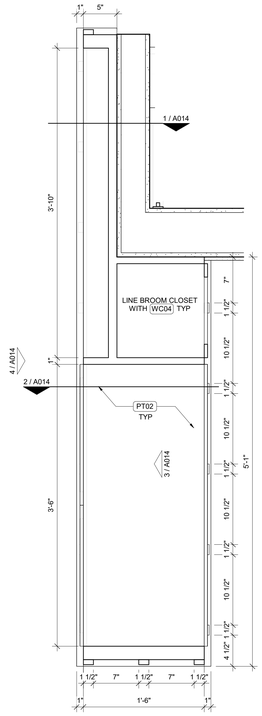
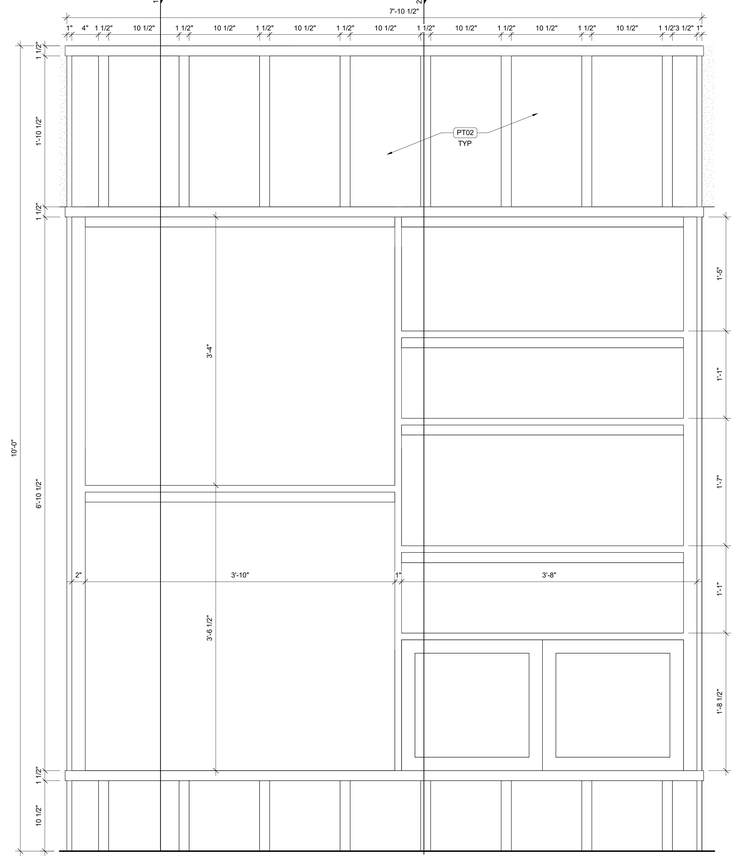
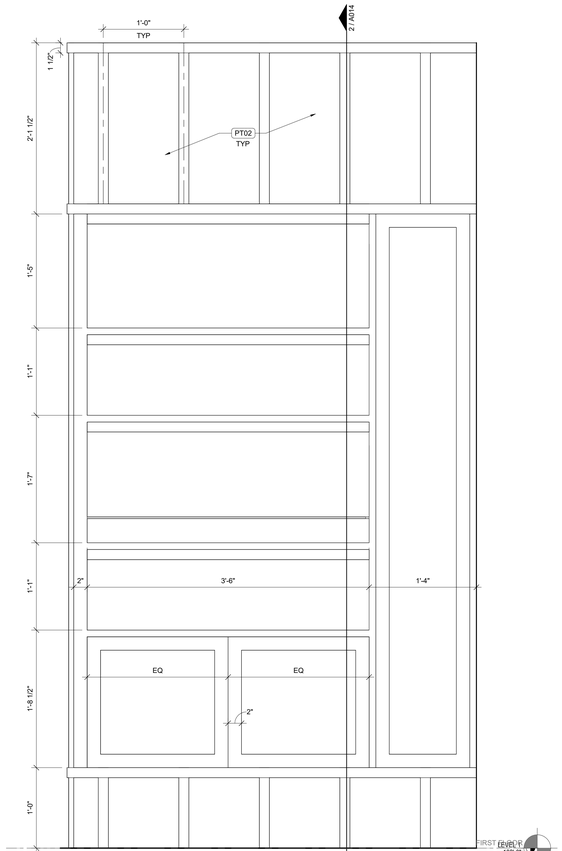


5 RETAIL SHELVING A
1 1/2" = 1'-0"



4 RETAIL SHELVING A ELEVATION 02
1 1/2" = 1'-0"



3 RETAIL SHELVING A ELEVATION 01
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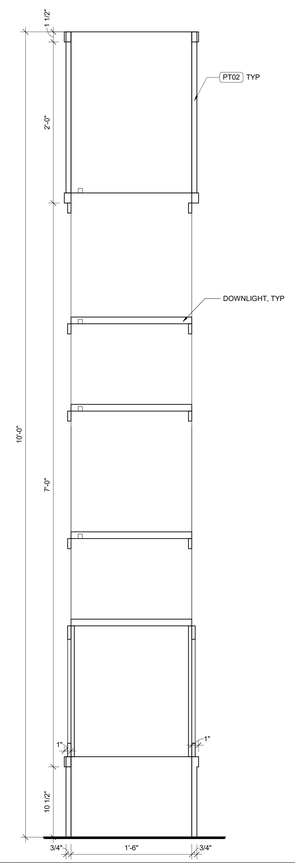

2 RETAIL SHELVING A SECTION 02
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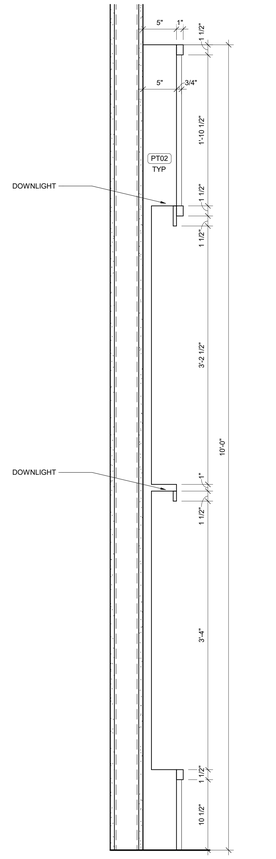

1 RETAIL SHELVING A SECTION 01
1 1/2" = 1'-0"

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
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ARCHITECT OF RECORD

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BRR ARCHITECTURE INC.
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OVERLAND PARK, KS 66204
WWW.BRRARCH.COM
TEL: 913-262-5095
FAX: 913-262-9044

CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

SHEET NOTES

1. ALL MILLWORK ELEMENTS SHOWN ARE TO BE ENGINEERED, FABRICATED, AND DELIVERED BY THE GC'S MILLWORK VENDOR AND INSTALLED BY THE GC OR SAID VENDOR. BRR MILLWORK DETAILS SHOWN FOR REFERENCE ONLY.
2. ALL PAINTED MILLWORK TO BE POPLAR WOOD, UNO
3. GC TO COORDINATE THE INSTALLATION OF ALL MILLWORK
4. GC TO COORDINATE ALL THE BLOCKING IN THE WALLS AS NEEDED PRIOR TO INSTALLATION OF MILLWORK
5. GC TO COORDINATE ALL UTILITIES NEEDED IN WALLS OR INTEGRATED IN THE MILLWORK
6. ALL MILLWORK IS TO COMPLY WITH HEALTH DEPARTMENT REQUIREMENTS.

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISLER
NUMBER A-2007019144
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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

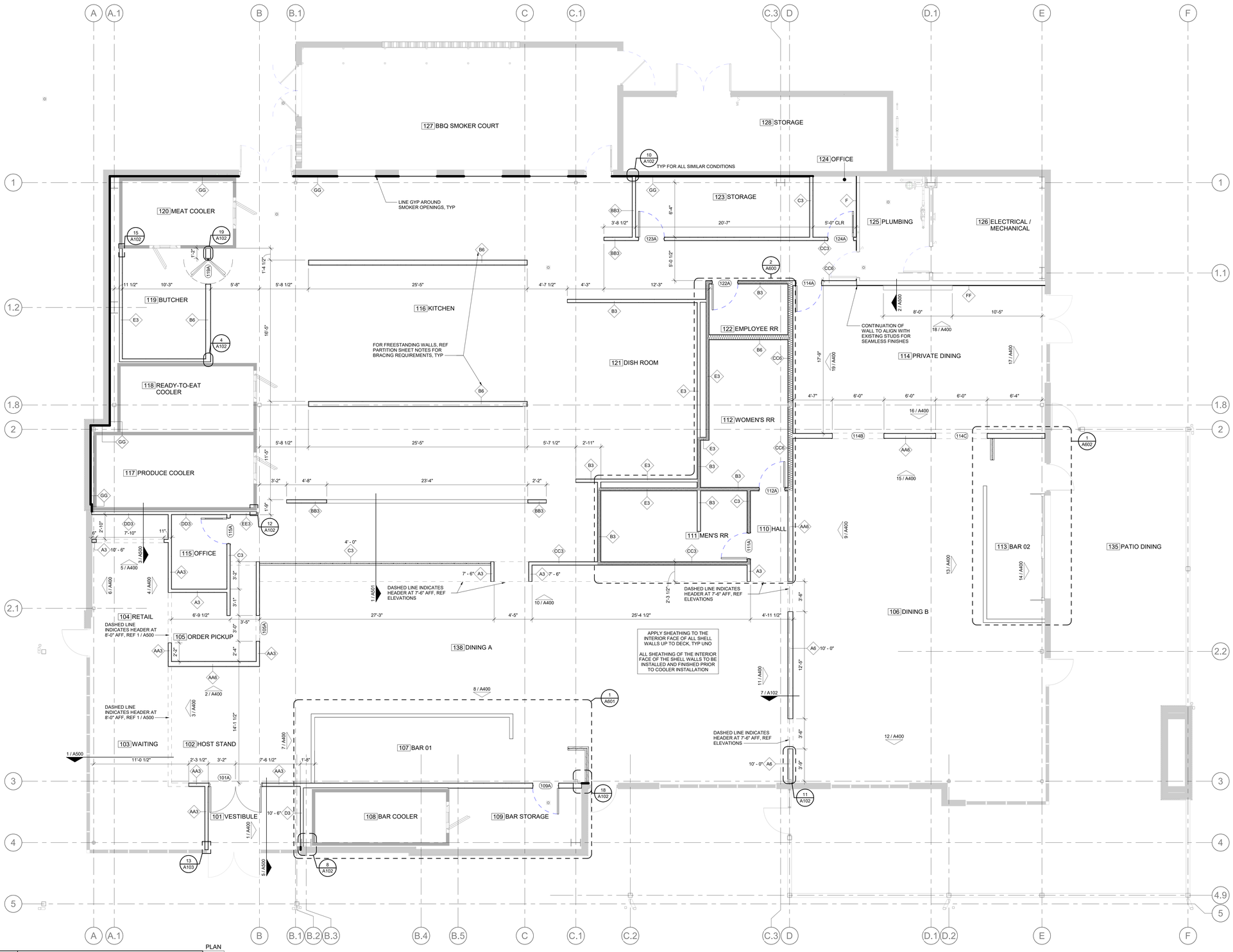
MILLWORK DETAILS

SHEET NUMBER

A014

SHEET NOTES

1. REFERENCE MILLWORK PLAN FOR BLOCKING LOCATIONS AND REQUIREMENTS
2. REFERENCE WALL FINISH PLAN, WALL SECTIONS, AND INTERIOR ELEVATIONS FOR TRANSITIONS BETWEEN WALL TYPES AND SUBSTRATE
3. REFERENCE DOOR AND WINDOW INFORMATION FOR ADDITIONAL INFORMATION
4. PROVIDE 2" AIR GAP BETWEEN STUD FRAMING AND EXTERIOR FACE OF COOLER PANEL
5. RETURN STUD FURRED WALL AT OPENINGS IN COOLER PANELS, REF 12 / A102
6. PROVIDE SOUND BATT INSULATION IN ALL RESTROOM WALLS AND CEILINGS
7. DIMENSIONS SHOWN TO/FROM FACE OF FINISH, UNO
8. COOLER PANELS PROVIDED BY KITCHEN VENDOR, SHOWN HALFTONE FOR REFERENCE ONLY
9. WHERE REFRIGERATED CASE BACK UP TO FRAMED WALLS, PROVIDE WALL VENT, REF 5 / A102
10. FOR UNBRACED WALLS UP TO 4'-0" AFF, REF 9 / A102
11. FOR UNBRACED WALLS UP TO 10'-0" AFF, REF 7 / A102



1 PARTITION PLAN
1/4" = 1'-0"

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CONSULTANT

OWNER

Q39

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LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHERER
NUMBER A-2003018144
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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

PARTITION PLAN

SHEET NUMBER

A101

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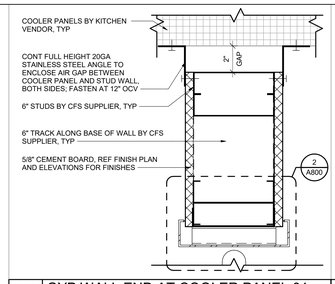
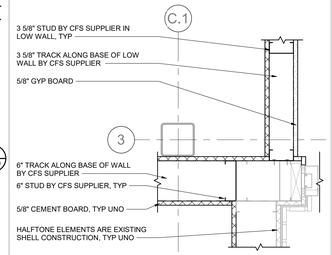
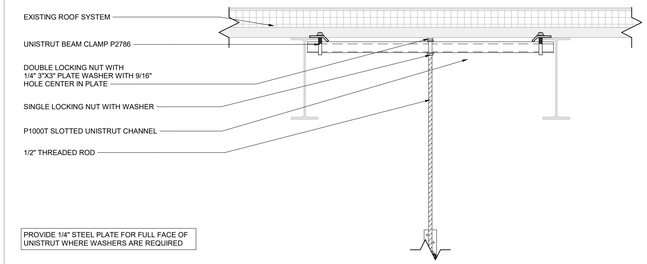


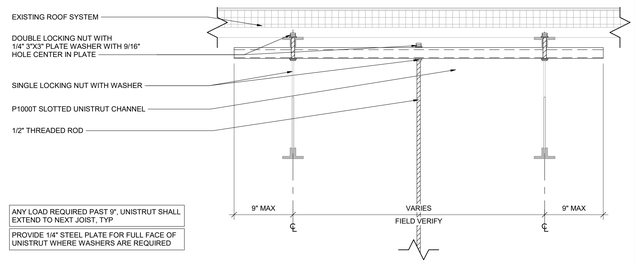
19 GYP WALL END AT COOLER PANEL 01
3" = 1'-0"



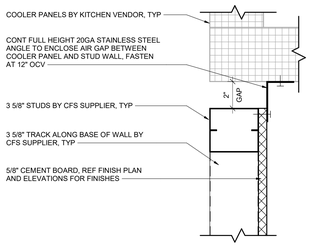
18 WALL CONNECT AT SHELL CORNER
1 1/2" = 1'-0"



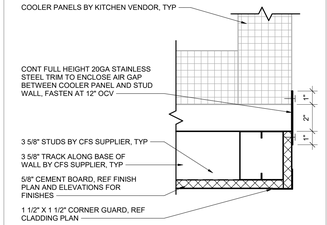
17 UNISTRUT TO WIDE FLANGE
1 1/2" = 1'-0"



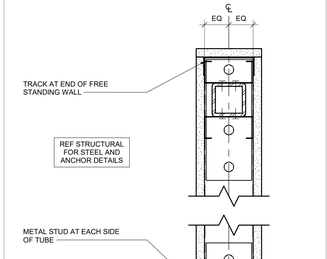
16 UNISTRUT CONNECTION
1 1/2" = 1'-0"



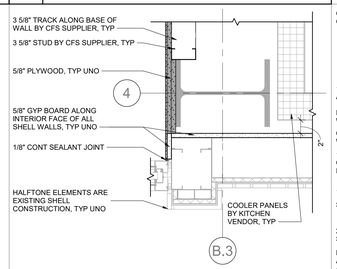
15 GYP WALL END AT COOLER CORNER
3" = 1'-0"



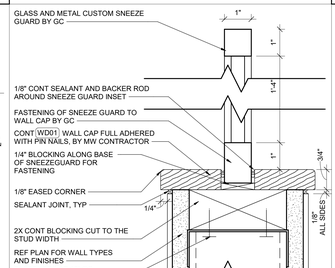
12 FURRING GAP CLOSURE AT COOLER
3" = 1'-0"



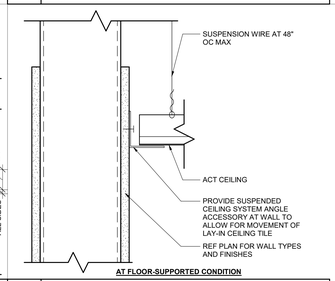
8 WALL CONNECT AT MOMENT FRAME
1 1/2" = 1'-0"

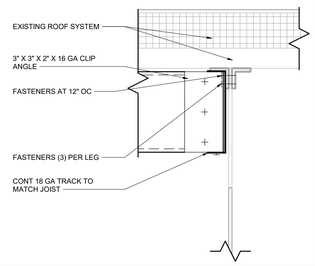


6 GLASS SNEEZE GUARD
6" = 1'-0"

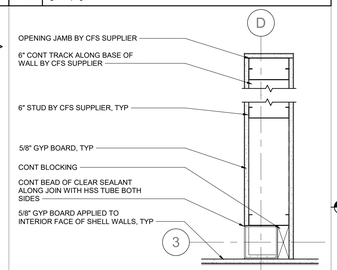


3 LAY-IN CEILING ATTACHMENT
3" = 1'-0"

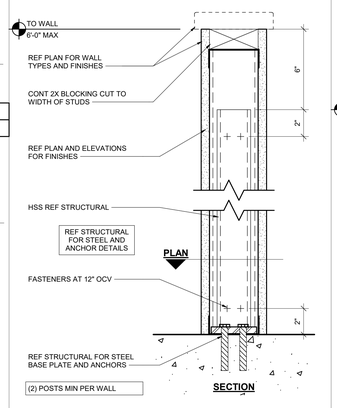




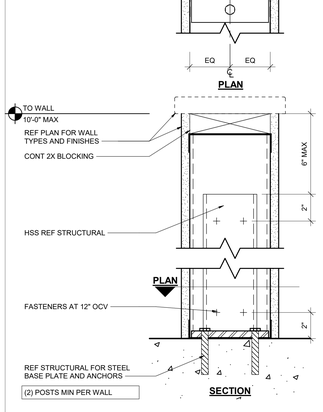
14 TOP CHORD CONNECTION
3" = 1'-0"



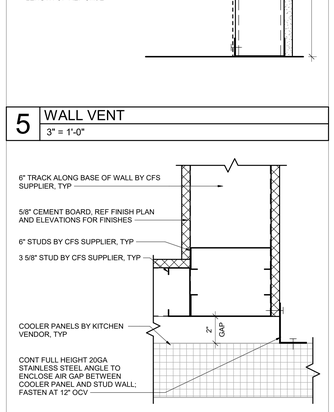
11 WALL CONNECT TO SHELL AT HSS
1 1/2" = 1'-0"



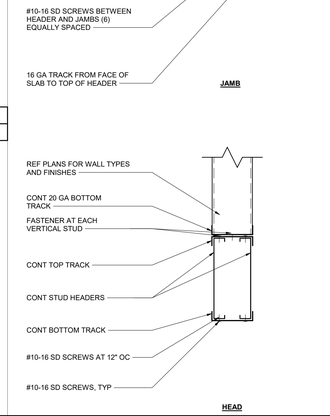
9 LOW WALL REINFORCEMENT
3" = 1'-0"



7 HIGH WALL REINFORCEMENT
3" = 1'-0"



5 WALL VENT
3" = 1'-0"

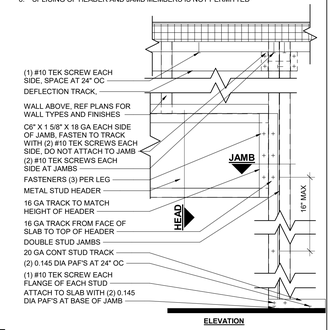


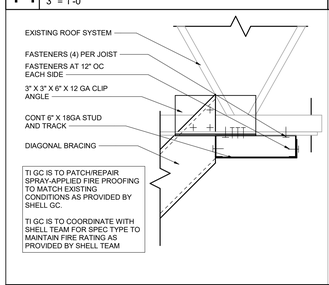
HEADER SCHEDULE

SPAN (UP TO)	HEADER	TRACK	JAMB
4'-0"	C3 5/8X1 5/8"X20 GA	C3 5/8X1 1/2X20 GA	C3 5/8x1 5/8"x20 GA
10'-0"	C6x1 5/8"x18 GA	C6x18 GA	C6x1 5/8"x18 GA
14'-0"	C8x1 5/8"x18 GA	C8x18 GA	C8x1 5/8"x18 GA
18'-0"	C8x1 5/8"x16 GA	C6x16 GA	C6x1 5/8"x16 GA
20'-0"	C10x1 5/8"x16 GA	C8x16 GA	C6x1 5/8"x16 GA
24'-0"	C12x1 5/8"x16 GA	C8x16 GA	C6x1 5/8"x16 GA

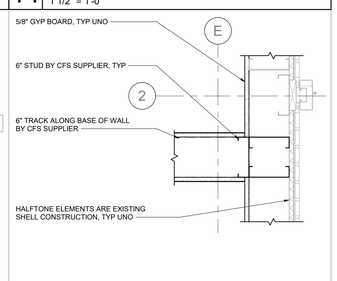
SCHEDULE NOTES

1. SCHEDULE AND SIZING FOR USE WITH INTERIOR NON LOAD BEARING STUD PARTITION HEADERS ONLY
2. FRAMING MEMBERS ARE SIZED FOR THE VERTICAL LOAD FROM THE PORTION OF WALL ABOVE THE OPENING ONLY
3. MAX SPAN FOR OPENINGS TO RECEIVE INFILL BELOW THE HEADER IS 19'-0"
4. JAMBS NOT TO DECK ARE TO BE BRACED IN ACCORDANCE WITH THE PARTITION BRACING DETAILS
5. 3 5/8" JAMBS BEYOND 13'-4" ARE TO BE BRACED ABOVE THE OPENING AND SUCH THAT THE MAXIMUM UNBRACED LENGTH IS NOT EXCEEDED
6. SPLICING OF HEADER AND JAMB MEMBERS IS NOT PERMITTED





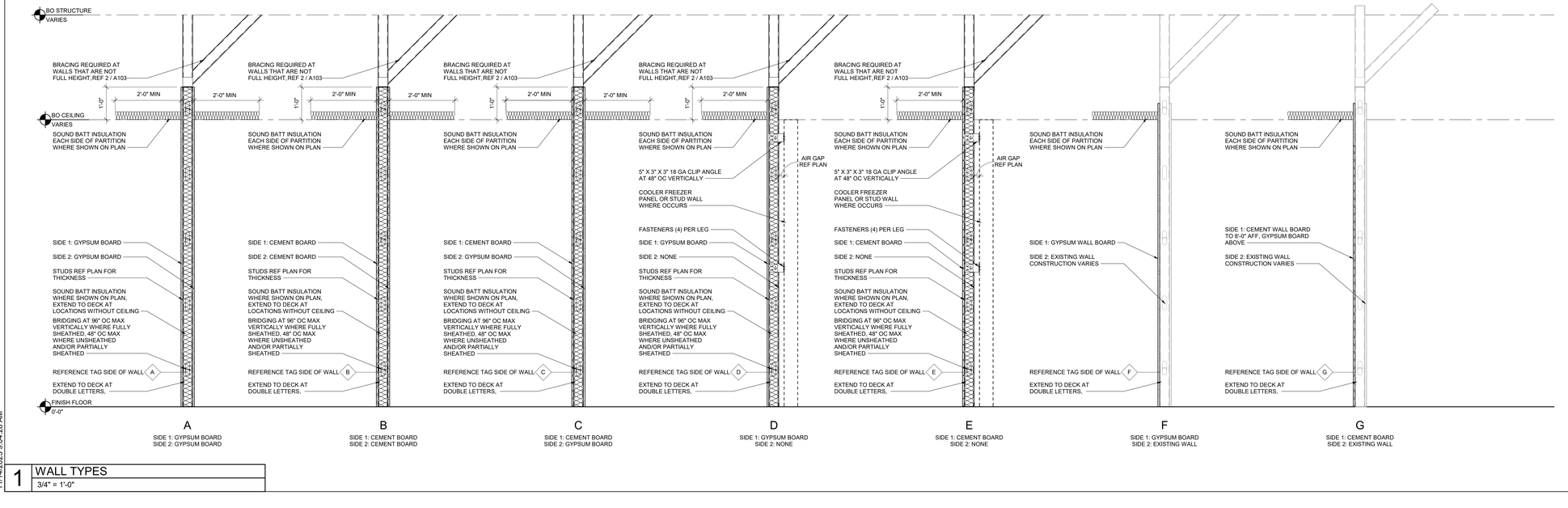
13 BOTTOM CHORD CONNECTION
3" = 1'-0"



10 WALL CONNECTION TO SHELL
1 1/2" = 1'-0"

4 GYP WALL END AT COOLER PANEL 02
3" = 1'-0"

2 STUD HEADER
1 1/2" = 1'-0"



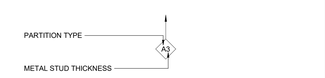
1 WALL TYPES
3/4" = 1'-0"

WALL TYPES NOTES

1. METAL STUDS ARE 20 GAUGE, (33 MILS) UNO
2. METAL STUDS ARE SPACED AT 16" ON CENTER MAX, UNO
3. METAL STUD FLANGE WIDTHS ARE 1 5/8" MIN, UNO
4. SUBSTRATES ARE 5/8" THICK, UNO
5. WALLS INDICATING PAINTED FINISH RECEIVE GYPSUM BOARD, UNO
6. WALLS INDICATING TILE OR FRP FINISH RECEIVE CEMENT BOARD SUBSTRATE, UNO
7. FULLY SHEATHED WALLS TO RECEIVE BRIDGING AT 96" OC MAX VERTICALLY
8. UNSHEATHED OR PARTIALLY SHEATHED WALLS TO RECEIVE BRIDGING AT 48" OC MAX VERTICALLY FOR THE PORTION OF WALL WHICH IS NOT FULLY SHEATHED

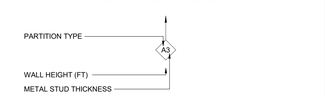
WALLS AT CEILINGS

EXTEND PAST CEILING PER WALL TYPES



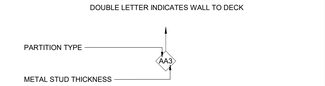
WALLS WITHOUT CEILINGS

NUMBER INDICATES UNBRACED HEIGHT AFF



FULL HEIGHT WALLS

DOUBLE LETTER INDICATES WALL TO DECK



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ARCHITECT OF RECORD

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FAX: 913-262-5044

CONSULTANT

OWNER

Q39

PROJECT TITLE

SHEET NOTE:
FRAMING NOTES AND REFERENCES ARE MINIMUM DESIGN STANDARDS. FINAL FRAMING SIZING AND CONNECTIONS TO BE BY CFS SUPPLIER.

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
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PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

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STATE OF MISSOURI
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11/14/2025

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ISSUES AND REVISIONS

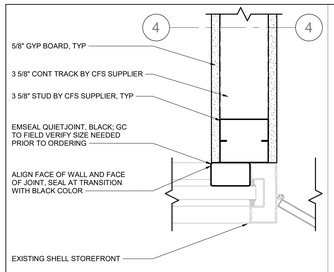
NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

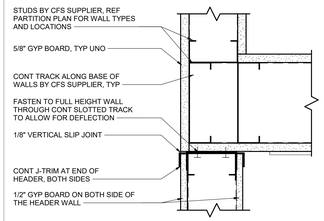
PARTITION DETAILS

SHEET NUMBER

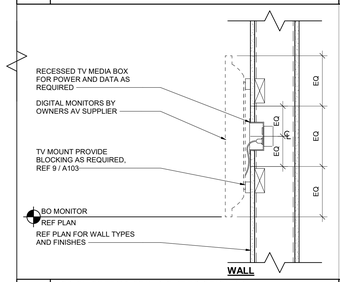
A102



13 WALL JOIN AT STOREFRONT
3" = 1'-0"

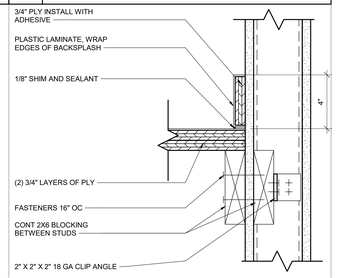


12 SLIP JOINT AT RETAIL HEADER WALL
3" = 1'-0"

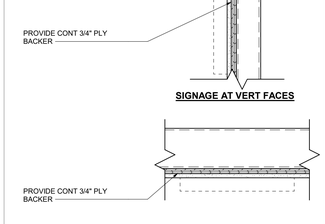


WALL

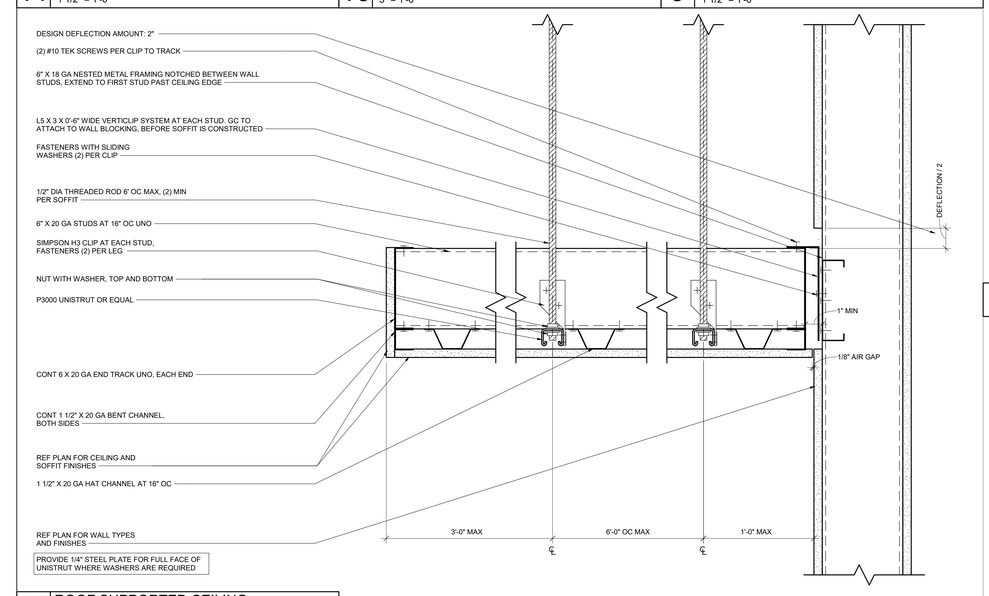
11 DIGITAL MONITOR MOUNTS
1 1/2" = 1'-0"



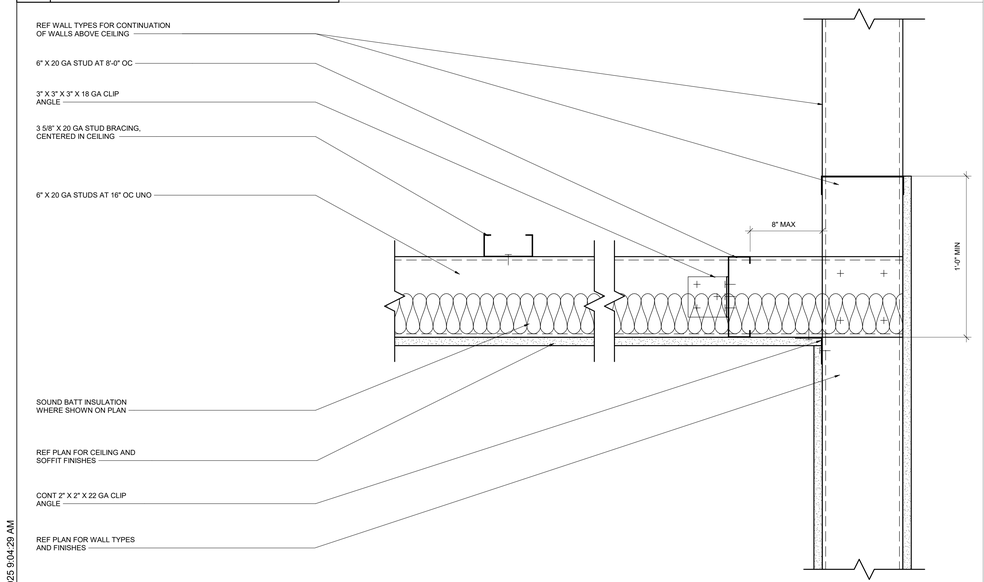
10 BACKSPLASH A
3" = 1'-0"



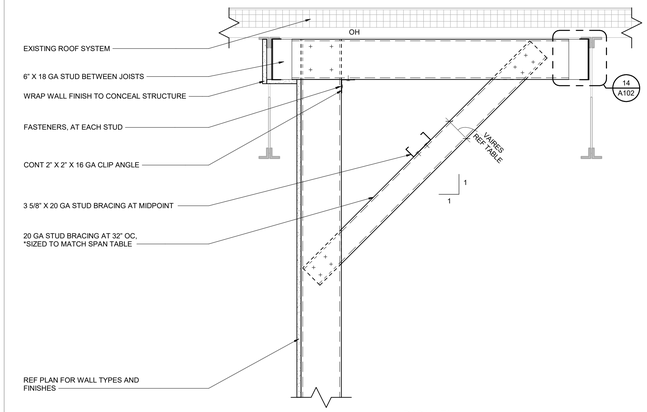
9 DECOR BLOCKING
1 1/2" = 1'-0"



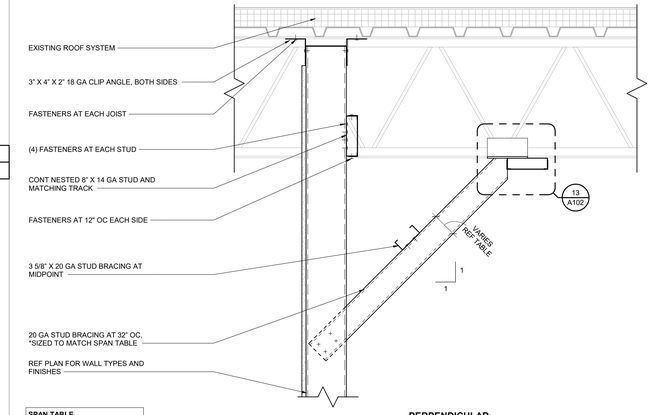
4 ROOF SUPPORTED CEILING
3" = 1'-0"



3 FLOOR SUPPORTED CEILING
3" = 1'-0"



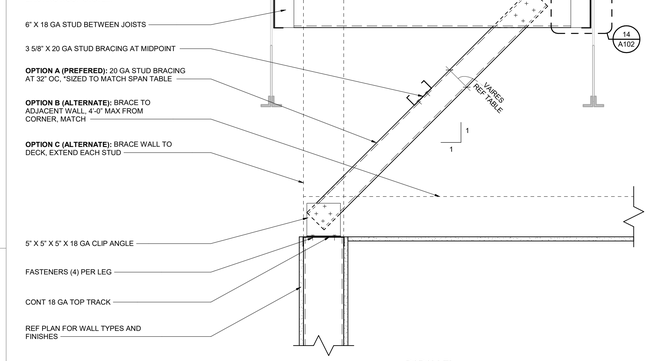
PARALLEL



SPAN TABLE
<14'-0" SPAN = 3 5/8"
>14-0" SPAN = 6"

PERPENDICULAR

8 ROOF SUPPORTED WALL BRACING
1 1/2" = 1'-0"



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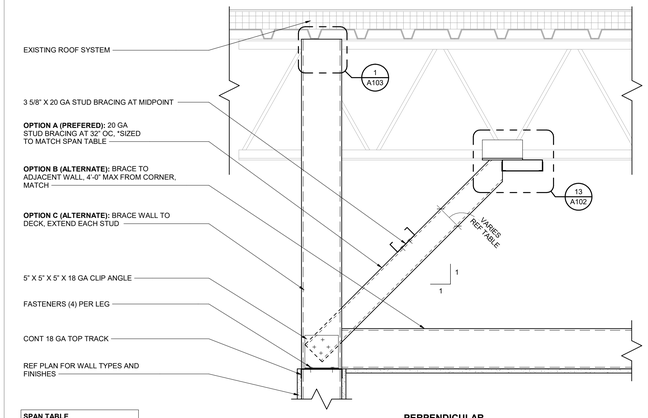
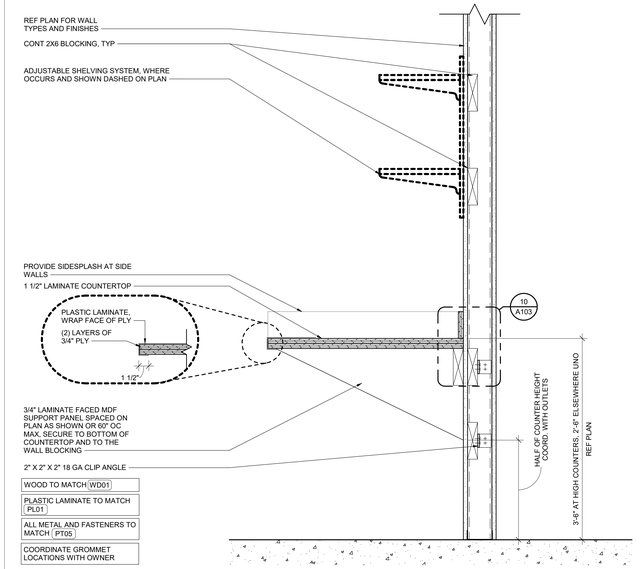


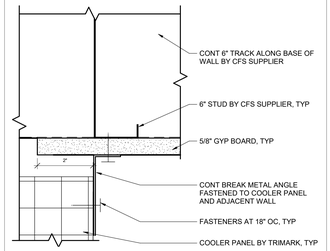
SPAN TABLE
<14'-0" SPAN = 3 5/8"
>14-0" SPAN = 6"

PERPENDICULAR

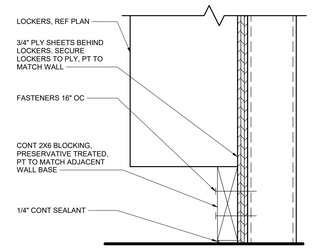
2 FLOOR SUPPORTED WALL BRACING
1 1/2" = 1'-0"



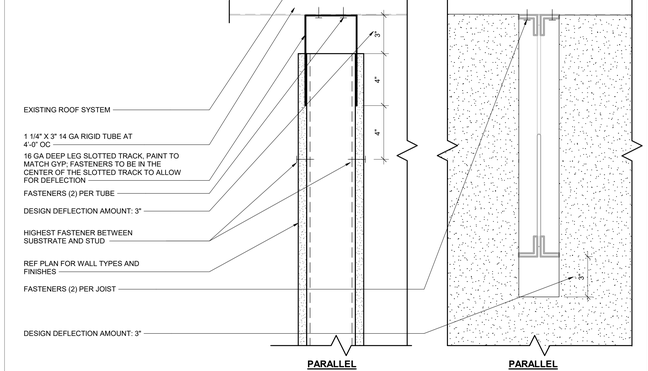
7 OFFICE COUNTER
1 1/2" = 1'-0"



6 ENCLOSURE AT COOLER CORNER
6" = 1'-0"

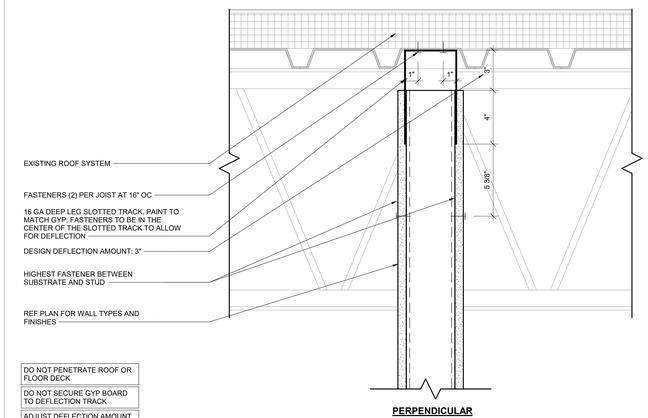


5 LOCKER BLOCKING
3" = 1'-0"



PARALLEL

PARALLEL



DO NOT PENETRATE ROOF OR FLOOR DECK

DO NOT SECURE GYP BOARD TO DEFLECTION TRACK

ADJUST DEFLECTION AMOUNT BASED ON ROOF DECK LOADS AT TIME OF INSTALL

PERPENDICULAR

1 DEFLECTION TRACK
3" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:49

ARCHITECT OF RECORD
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BRR ARCHITECTURE INC.
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OVERLAND PARK, KS 66204
WWW.BRRARCH.COM
TEL: 913-262-9096
FAX: 913-262-9044

CONSULTANT

OWNER
Q39

PROJECT TITLE

SHEET NOTE:
FRAMING NOTES AND REFERENCES ARE MINIMUM DESIGN STANDARDS. FINAL FRAMING SIZING AND CONNECTIONS TO BE BY CFS SUPPLIER.

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHERER
NUMBER A-2007018824
REGISTERED ARCHITECT

11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

PARTITION DETAILS

SHEET NUMBER

A103

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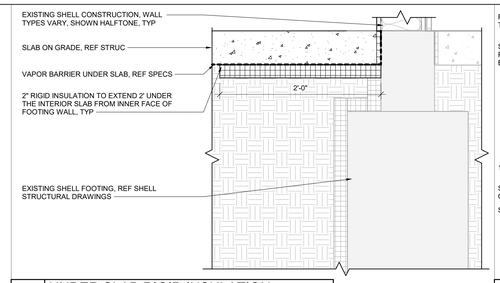
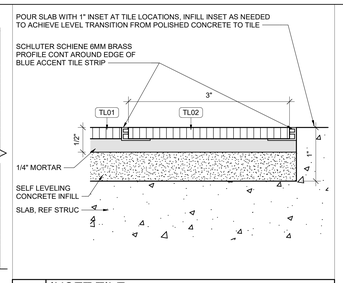


4 UNDER SLAB RIGID INSULATION
1 1/2" = 1'-0"



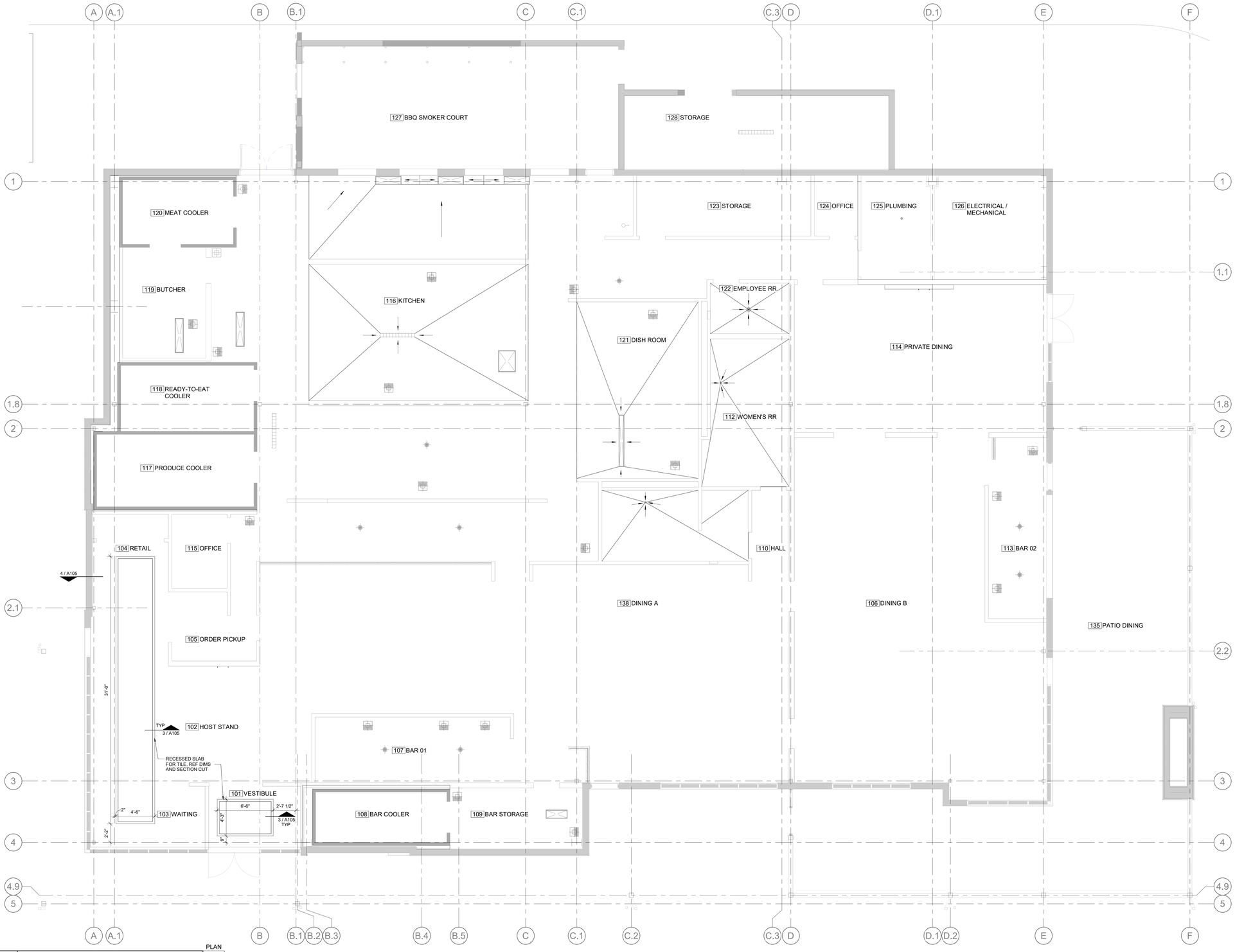
3 INSET TILE
12" = 1'-0"

SHEET NOTES

1. REFERENCE FLOOR FINISH PLAN FOR TREATMENT AND EXTENTS
2. REFERENCE STRUCTURAL FOR ADDITIONAL SLAB INFORMATION INCLUDING CONTROL JOINT LAYOUT
3. REFERENCE PLUMBING FOR DRAIN LOCATIONS AND SPECS, SHOWN FOR REFERENCE ONLY
4. FACE OF DRAIN BODY TO BE TO FLUSH WITH FINISH FLOOR, UNO

SLAB SLOPE NOTES

1. PROVIDE 1/8" PER FOOT SLOPE WHERE SPACE CONSTRAINTS ALLOW
2. SLOPES NOT TO EXCEED 2%
3. SLOPES NOT TO EXCEED 2" TOTAL RISE FOR EXTENT OF ANY ROOM



1 SLAB PLAN
1/4" = 1'-0"

PLAN

SYMBOLS LEGEND

- CONCRETE SLAB ON GRADE
- EXISTING SLAB TO REMAIN
- FLOOR DRAIN
- FLOOR SINK
- CLEANOUTS
- HUB DRAIN
- DOWN SLOPE → FLOOR SLOPE

RELEASE FOR CONSTRUCTION
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12/16/2025 3:10:49

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISLER
NUMBER A-2007018424
ARCHITECT

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

SLAB PLAN

SHEET NUMBER

A105

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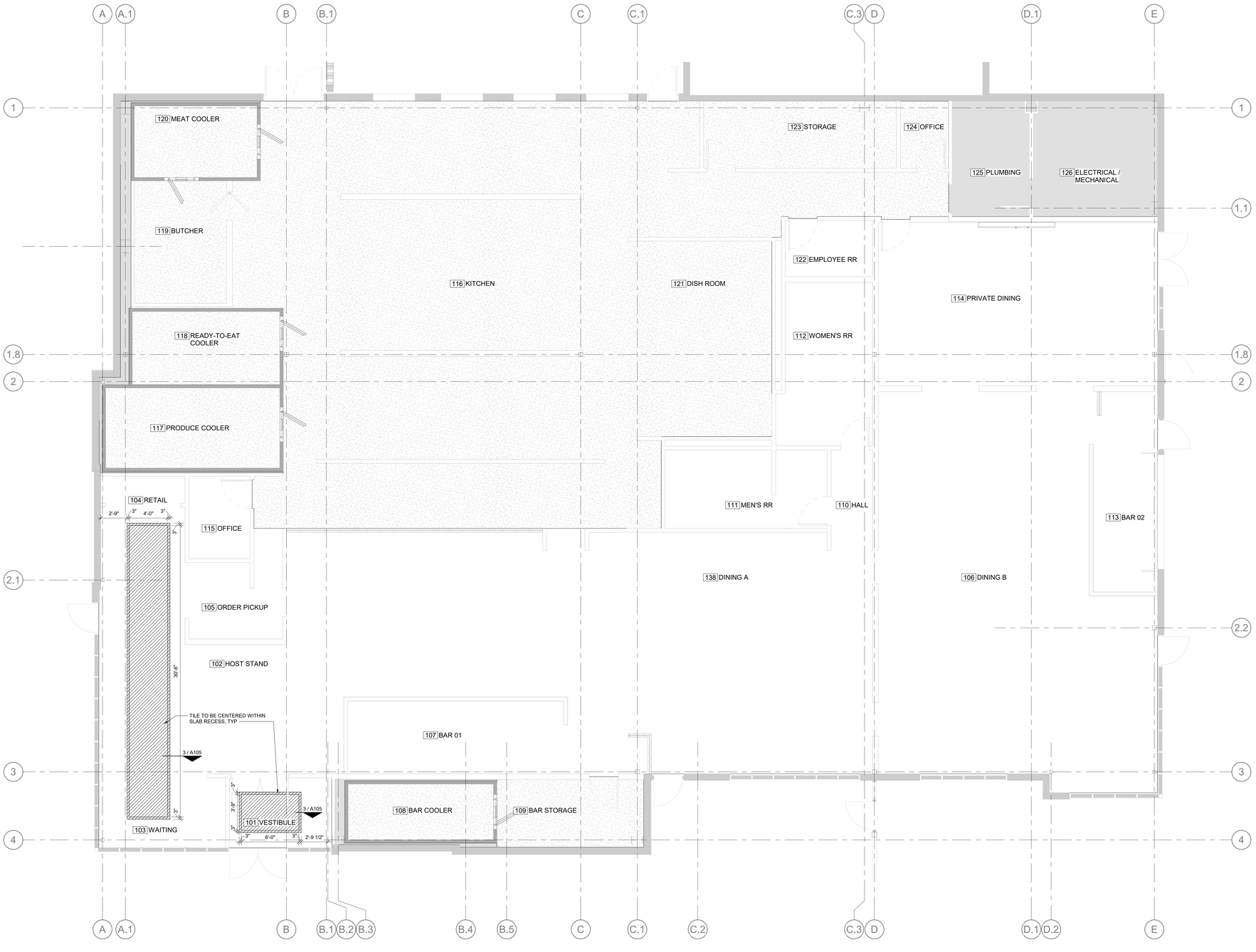
SHEET NOTES

1. REFERENCE SLAB PLAN FOR SLOPED AREAS
2. REFERENCE STRUCTURAL FOR ADDITIONAL SLAB INFORMATION
3. REFERENCE PLUMBING FOR LOCATIONS AND TYPES OF PENETRATIONS FOR COORDINATION OF NEW FLOORING
4. WHERE FINISH TRANSITIONS BETWEEN RESINOUS FLOORING AND EXPOSED CONCRETE, CONCEAL TRANSITION WITH SCHLUTER LEVEL ALUMINUM TRIM IN BRASS.

SYMBOLS LEGEND

REF FINISH SCHEDULE ON SHEET A108 FOR MORE FINISH INFORMATION

- FL01; POLISHED CONCRETE
- FL02; RESINOUS FLOORING
- SEALED CONCRETE
- TL01; PENNY TILE
- TL02; PENNY TILE



1 FLOOR FINISH PLAN
1/4" = 1'-0"

PLAN

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
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PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHERER
NUMBER A-2007014
ARCHITECT

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
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SHEET NAME

FLOOR FINISH PLAN

SHEET NUMBER

A107

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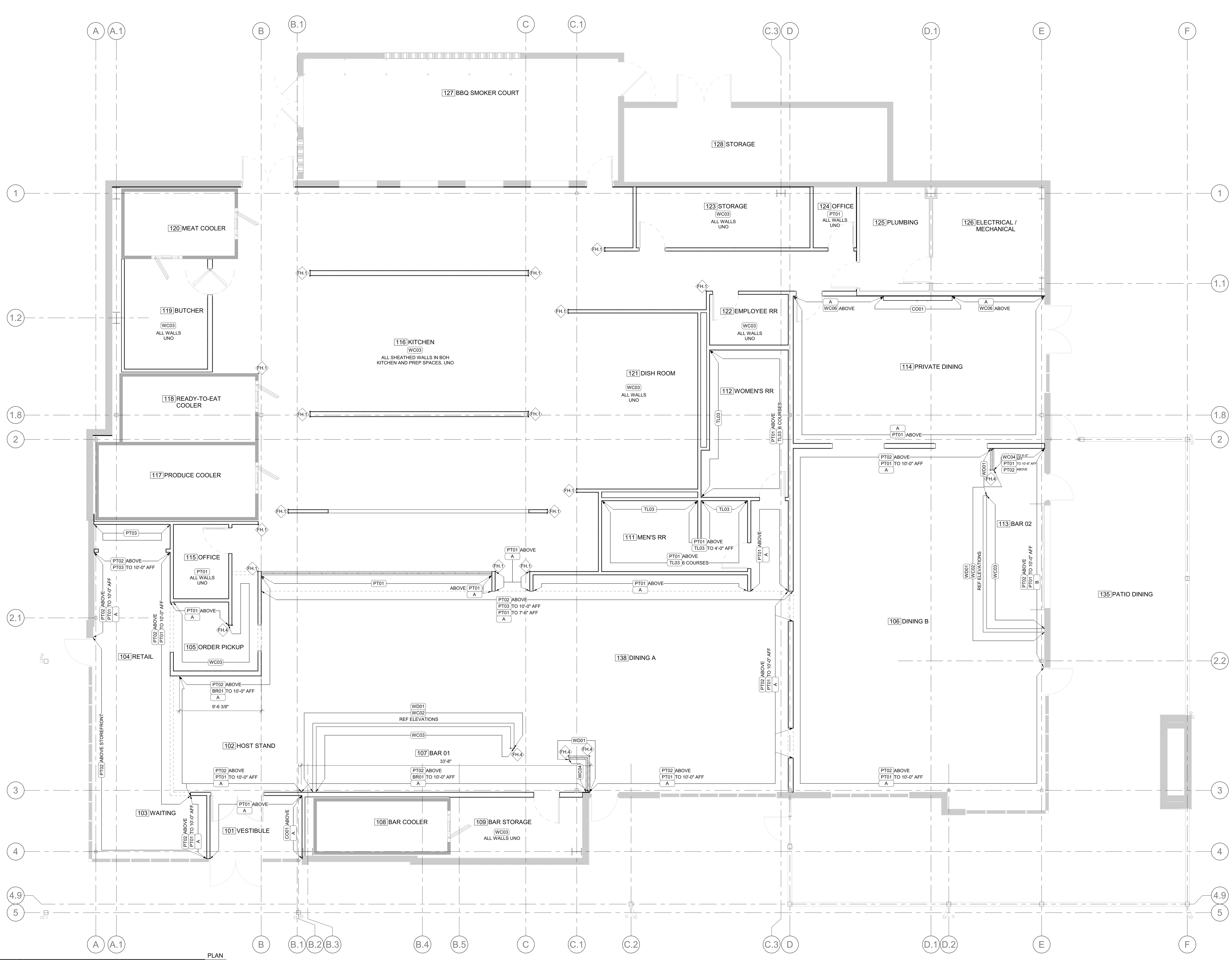

1 FINISH PLAN
1/4" = 1'-0"
PLAN

11/14/2025 9:04:33 AM

SHEET NOTES

1. REFERENCE REFLECTED CEILING PLAN FOR SOFFIT FINISHES
2. REFERENCE INTERIOR ELEVATIONS FOR FINISH TRANSITION LOCATIONS
3. REFERENCE DD PACKAGE ON PROCORE FOR ADDITIONAL INFORMATION
4. WHERE FINISHES ARE INDICATED AS "ABOVE", TRANSITION SUBSTRATE AS REQUIRED PER WALL FINISH
5. WHERE MULTIPLE FINISHES ARE INDICATED IN THE SAME LOCATION, REFERENCE ELEVATIONS
6. WHERE FINISHES ARE INDICATED AT EQUIPMENT, COORDINATE WITH OWNER FOR FIELD INSTALLATION DIRECTLY ON CUSTOM PIECES
7. PROVIDE CONTINUOUS SEALANT BETWEEN MATERIAL TRANSITIONS
8. PROVIDE STAINLESS STEEL PLATES AND BLACK FACES FOR ELECTRICAL FIXTURES IN WALLS, UNO
9. PROVIDE BLACK FINISH FOR MEPFR DEVICES IN NATURAL WOOD FINISHED SOFFITS, MATCH ADJACENT COLOR IN GYPSUM FINISHED SOFFITS
10. PRIME AND PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISHES
11. PAINT OVERHEAD PVC PIPING SHERWIN WILLIAMS IRON ORE, UNLESS RESTRICTED BY CODE
12. PAINT VERTICAL UTILITIES TO MATCH ADJACENT WALLS OR SOFFITS
13. PROVIDE SEMI GLOSS POLYURETHANE CLEAR COATING AT ALL UNPAINTED AND/OR UNTREATED WOOD CLADDING, UNO
14. PROVIDE CLEAR MATTE SEALER AT ALL UNPAINTED EXPOSED CONCRETE SURFACES
15. PAINT EXISTING SHELL WALLS IN BOH PT01 , UNO
16. PAINT GYPSUM CEILINGS PT01 , UNO
17. PAINT CUSTOMER VISIBLE COLUMNS PT02, UNO, ALL OTHERS TO MATCH NEAREST ADJACENT WALL

CLADDING NOTES

1. PROVIDE FIRE RETARDANT TREATMENT AND CLEAR COAT FINISH SEALANT AT ALL WOOD FINISHED WAINSCOTS
2. PROVIDE SAFETY STRIPING 4'-0" IN FRONT OF ELECTRICAL PANELS FOR FULL WIDTH, REFERENCE LEGEND FOR REQUIREMENTS AND LOCATION
3. PROVIDE CONTINUOUS ALUMINUM BRAKE METAL CLOSURE PANEL TO CONCEAL REFRIGERATED CASES' AIR GAP AT WALL
4. COORDINATE FINAL EXTENTS, APPLICATIONS, AND LOCATIONS OF WAINSCOT PROTECTION WITH ARCHITECT
5. COORDINATE FINAL QUANTITIES AND LOCATIONS OF STEEL PROTECTION WITH ARCHITECT
6. PROVIDE WALL CAP AT ALL LOW WALLS,

FINISH NOTES

PAINT
1. PATCH AND REPAIR DAMAGE TO EXISTING WALLS PRIOR TO PAINTING
2. PROVIDE SEMI-GLOSS CLEANABLE PAINTED SURFACES WHEN EXPOSED TO PREP SPACES
3. WHERE PLYWOOD IS CUSTOMER VISIBLE, PROVIDE PAINT GRADE PLYWOOD WITH NO VISIBLE FASTENERS
4. WHERE COOLER PANELS ARE DIRECTLY ADJACENT TO GYPSUM BOARD OR PLYWOOD SHEATHING, PROVIDE WATERPROOF PAINT.

TILE/BRICK
1. ALIGN GROUT LINES BETWEEN ALL TILE TRANSITIONS
2. CENTER TILE PATTERN ON WALL, UNO
3. PROVIDE CONTINUOUS ALUMINUM TRIM PIECE AT ALL CORNERS AND UNFINISHED TILE EDGES,

WOOD
1. WHERE EXPOSED DECORATIVE WOOD FINISHES ARE CUSTOMER VISIBLE, NO VISIBLE FASTENERS ARE ALLOWED

BASE
1. WB01: ALL CUSTOMER FACING WALLS EXCEPT AT RESINOUS FLOORING
2. WB02: FRP WALL ADJACENT TO RESINOUS FLOORING AND GYPSUM WALLS NOT CUSTOMER VISIBLE

SYMBOLS LEGEND

- A — WC01 3'-5" WAINSCOT, REF 1 / A110
- B — WC01 3'-11" WAINSCOT, REF 2 / A110
- FH.1 — MT01 FULL HEIGHT CORNER GUARD, REF 3 / A110
- FH.4 — MT04 FULL HEIGHT CORNER GUARD, REF 3 / A110

FINISH SCHEDULE

MARK	MANUFACTURER	PRODUCT	COLOR	NOTES
BRICK (BR##)				
BR01	BELDEN BRICK	5/8" THIN BRICK	ALASKA WHITE	HORIZONTAL RUNNING BOND, GR01
CONCRETE (CO##)				
CO01	WALL THEORY	BOARD FORMED CONCRETE PANELS	NATURAL GREY	6"W HORIZONTAL PLANK
FABRIC (FA##)				
FA01	-	MATCH EXISTING NAVY LEATHER UPHOLSTERY AT Q39 MIDTOWN	-	-
FLOORING (FL##)				
FL01	GC	CONCRETE	POLISHED LEVEL 2 MATTE FINISH (200)	SALT AND PEPPER AGGREGATE; SEAL WITH ANTISLIP CLEAR TOPCOAT
FL02	SHERWIN WILLIAMS	POLYCRETE	GRAY	
GROUT (GR##)				
GR01	LATICRETE	-	BRIGHT WHITE	-
GR02	LATICRETE	-	SILVER SHADOW	-
METAL (MT##)				
MT01	GC	STAINLESS STEEL	BRUSHED	-
MT02	GC	HOT ROLLED STEEL	-	-
MT03	GC	BRASS SHEET METAL	BRUSHED	-
MT04	GC	ALUMINUM SHEET METAL	PAINTED TO MATCH PT02	-
PAINT (PT##)				
PT01	SHERWIN WILLIAMS	SW7042	SHOJI WHITE	SATIN
PT02	SHERWIN WILLIAMS	SW7069	IRON ORE	SATIN
PT03	BENJAMIN MOORE	HC-154	HALE NAVY	SATIN
PLASTIC LAMINATE (PL##)				
PL01	FORMICA	LAMINATE - COMMERCIAL	902 PLATINUM	MATTE
SOLID SURFACE (SS##)				
SS01	MSI	GRANITE	NERO MIST	BRUSHED 3CM SLABS
TILE (TL##)				
TL01	MEROLA	HUDSON PENNY ROUND	WHITE GLOSSY	GR01
TL02	MEROLA	HUDSON PENNY ROUND	SMOKY BLUE GLOSSY	GR01
TL03	PORTOBELLO AMERICA	HIGH LAND LAKE	OLIVE GLOSSY	VERTICAL STACKED BOND, GR02
WALL BASE (WB##)				
WB01	JOHNSONITE	CBT 40 6 X 4 1/8 TOELESS TRADITIONAL VINYL 6" 1/8 TOELESS	40 BLACK	
WB02	SHERWIN WILLIAMS	-	MATCH FL02	6" EPOXY COVE BASE
WALLCOVERING (WC##)				
WC01	LAMINAM	CALCE 3+	NERO	3MM THICKNESS, 1000X3000MM
WC02	FORMICA	HIGH PRESSURE LAMINATE	OXIDIZED SILVER PATINA	-
WC03	MARLITE	STANDARD FRP	P100 WHITE	-
WC04	MARLITE	STANDARD FRP	P807 BLACK	-
WC05	DECORATIVE FILMS	ANTIQUE SILVER MIRROR FILM	SX-6040	-
WC06	BY OWNER	CUSTOM WALLPAPER	-	-
WOOD (WD##)				
WD01	-	MATCH FORMICA STEAMED LUSTER WALNUT	-	DIMENSION AND TYPE VARIES, REF DETAILS AND MILLWORK PACKAGE FOR MORE INFORMATION

ARCHITECT OF RECORD
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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL
STATE OF MISSOURI
MARK SCHERRER
NUMBER A-2020016624
ARCHITECT
11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME
WALL FINISH PLAN

SHEET NUMBER
A108

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RELEASE FOR CONSTRUCTION
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ARCHITECT OF RECORD

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BRR ARCHITECTURE INC.
8131 METCALF AVENUE
SUITE 302
OVERLAND PARK, KS 66204

WWW.BRRARCH.COM

TEL: 913-262-9096
FAX: 913-262-9044

CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHEIBER
NUMBER A-2012019824
REGISTERED ARCHITECT

11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

FINISH & CLADDING DETAILS

SHEET NUMBER

A110

5	ALUMINUM TRIM	4	RESINOUS BASE	3	EDGE PROTECTION	2	WAINSCOT B
	3" = 1'-0"		3" = 1'-0"		3" = 1'-0"		1 1/2" = 1'-0"

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

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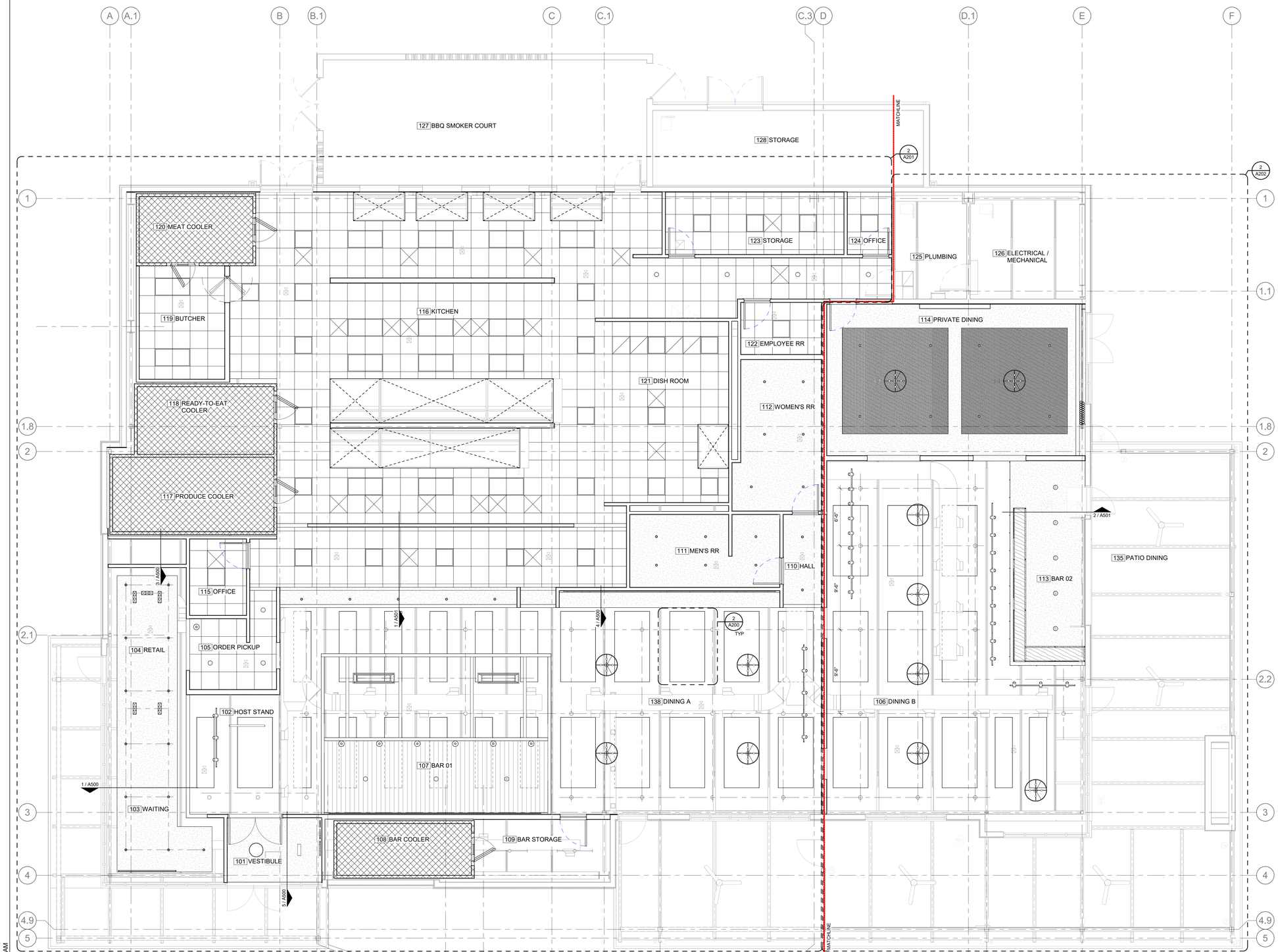


1 REFLECTED CEILING PLAN
1/4" = 1'-0"

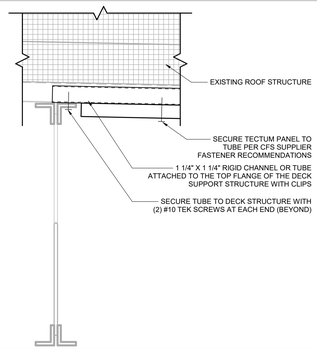
PLAN

SHEET NOTES

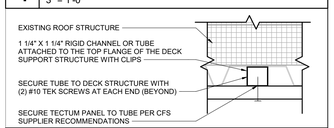
1. PAINT ALL EXPOSED ROOF DECK, STRUCTURE, AND OVERHEAD UTILITIES PT02 UNO
2. REFERENCE ELECTRICAL DRAWINGS FOR LIGHTING TAGS AND THE LIGHTING SCHEDULE CONTAINING ADDITIONAL MOUNTING HEIGHTS AND FIXTURE SPECS
3. REFERENCE MECHANICAL FOR HVAC AND HOOD LOCATION AND SPECS, SHOWN FOR REFERENCE ONLY
4. REFERENCE ELECTRICAL FOR LIGHTING CONNECTIONS.
5. PROVIDE VINYL COATED ACT PANELS WHEN EXPOSED TO PREP SPACES
6. REMOVE ALL STICKERS OR TAGS ON OVERHEAD UTILITIES, UNLESS RESTRICTED BY CODE OR INDICATING WARRANTY AND CERTIFICATION INFORMATION
7. CENTER ACT GRIDS IN ROOM, UNO
8. PROVIDE CONTROL JOINTS IN GYPSUM BOARD FRAMED ASSEMBLIES AT 30' OC MAX, OR AS INDICATED ON PLAN
9. VCJ INDICATES ISOLATION BETWEEN FLOOR SUPPORTED AND ROOF SUPPORTED WALL STRUCTURE
10. POINT ALL DIRECTIONAL LIGHTING AT SIGNAGE OR EQUIPMENT
11. DIMENSIONS SHOWN TO/FROM FACE OF FINISH, UNO
12. PROVIDE SOUND BATT INSULATION IN ALL RESTROOM WALLS AND CEILINGS
13. ALIGN UTILITIES, WHEN POSSIBLE, HARD 90'S, ALIGN WITH COLUMNS. REVIEW ROUTING AS A/E TEAM AT DURING DESIGN REVIEWS
14. CEILING JOISTS UNO:
    A. SPANS UP TO 14'-0"
    - 16" OC JOIST SPACING
    - 600S162-43 (6"X1 5/8"X18GA)
    - LATERAL BRIDGING IS REQUIRED AT MID SPAN ONLY
    B. SPANS UP TO 20'-0"
    - 16" OC JOIST SPACING
    - 600S162-54 (6"X1 5/8"X16GA)
    - LATERAL BRIDGING IS REQUIRED AT THIRD POINTS
15. GC TO VERIFY ALL LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING.

SYMBOLS LEGEND

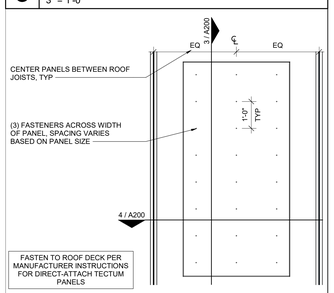
- GYPSUM BOARD
- 2' X 2' ACT CEILING
- 6" WOOD PLANK CEILING
- COOLER FREEZER BY TRIMARK
- HOOD, REF MEP
- MATCHLINE
- X'-XX" — BOTTOM OF CEILING HEIGHT
- X ### — EQUIPMENT TAG, REF A010
- LT## — LIGHTING TAG



4 TECTUM PANEL FURRING 02
3" = 1'-0"



3 TECTUM PANEL FURRING 01
3" = 1'-0"



2 TECTUM PANEL FASTENING
1/2" = 1'-0"

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LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:50

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BRR ARCHITECTURE INC.
8131 METCALF AVENUE
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OVERLAND PARK, KS 66204
WWW.BRRARCH.COM
TEL: 913-262-5095
FAX: 913-262-9044

CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHEIBER
NUMBER A-2012019824
REGISTERED ARCHITECT

11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

OVERALL REFLECTED CEILING PLAN

SHEET NUMBER

A200

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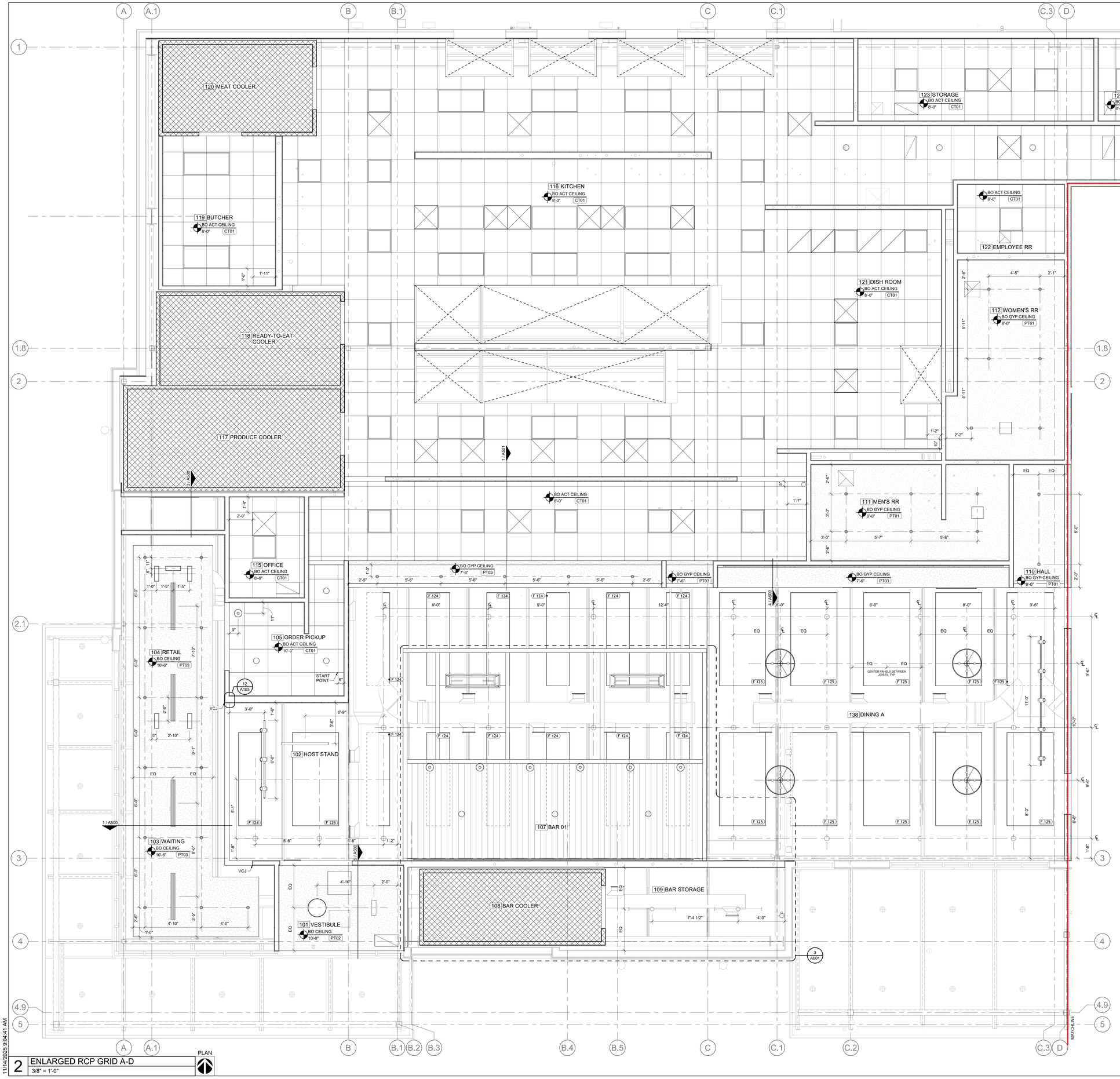

SHEET NOTES

1. PAINT ALL EXPOSED ROOF DECK, STRUCTURE, AND OVERHEAD UTILITIES PT02 UNO
2. REFERENCE ELECTRICAL DRAWINGS FOR LIGHTING TAGS AND THE LIGHTING SCHEDULE CONTAINING ADDITIONAL MOUNTING HEIGHTS AND FIXTURE SPECS
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SYMBOLS LEGEND

- GYPSUM BOARD
- 2' X 2' ACT CEILING
- 6" WOOD PLANK CEILING
- COOLER FREEZER BY TRIMARK
- HOOD, REF MEP
- MATCHLINE
- X'-XX" — BOTTOM OF CEILING HEIGHT
- X ### — EQUIPMENT TAG, REF A010
- LT## — LIGHTING TAG

2 ENLARGED RCP GRID A-D PLAN
3/8" = 1'-0"

11/14/2025 9:04:41 AM

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:50

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8131 METCALF AVENUE
SUITE 350
OVERLAND PARK, KS 66204
WWW.BRRARCH.COM
TEL: 913-262-5095
FAX: 913-262-9044

CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISLER
NUMBER A-2007018424
REGISTERED ARCHITECT

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

ENLARGED RCP

SHEET NUMBER

A201

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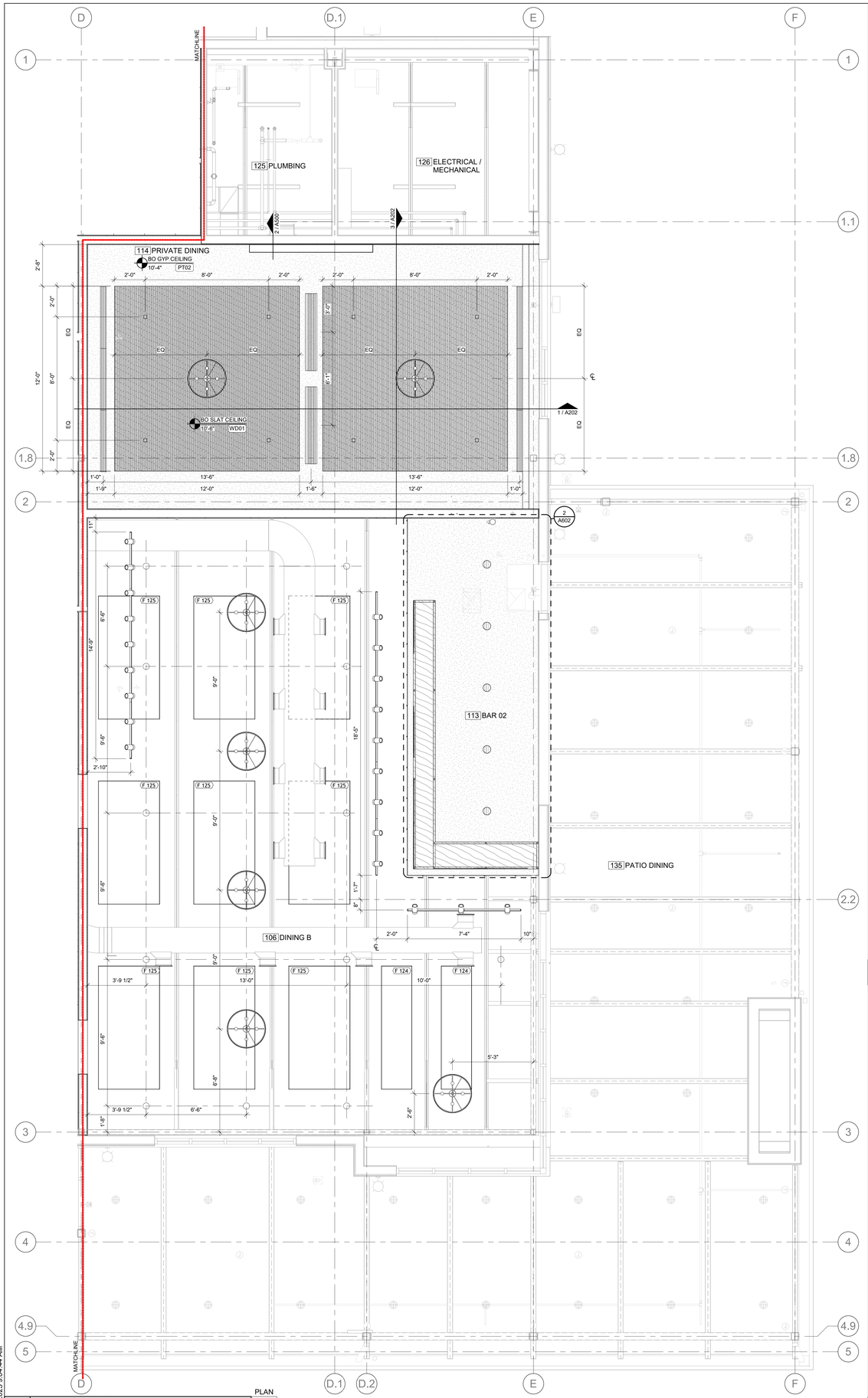
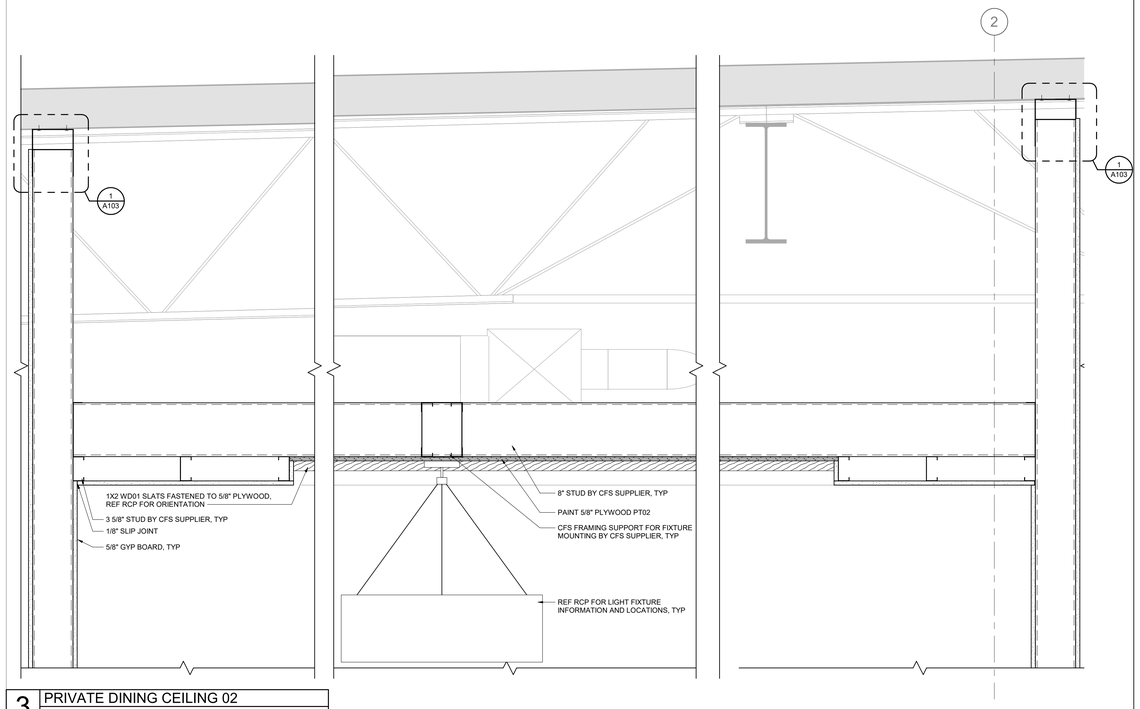
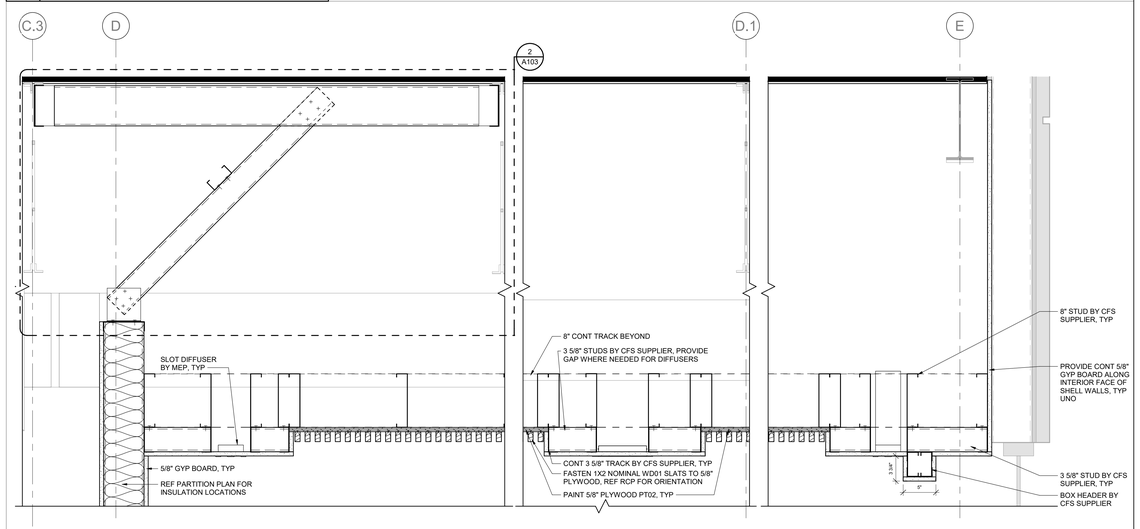


2 ENLARGED RCP GRID D-F
3/8" = 1'-0"



3 PRIVATE DINING CEILING 02
1 1/2" = 1'-0"



1 PRIVATE DINING CEILING 01
1 1/2" = 1'-0"

SYMBOLS LEGEND

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- LT## — LIGHTING TAG

SHEET NOTES

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RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:50

ARCHITECT OF RECORD

brr
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8131 METCALF AVENUE
SUITE 300
OVERLAND PARK, KS 66204
WWW.BRRARCH.COM
TEL: 913-262-5095
FAX: 913-262-5044

CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISLER
NUMBER A-2007019644
REGISTERED ARCHITECT

11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

ENLARGED RCP

SHEET NUMBER

A202

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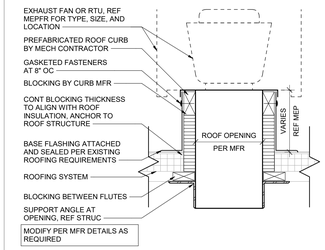
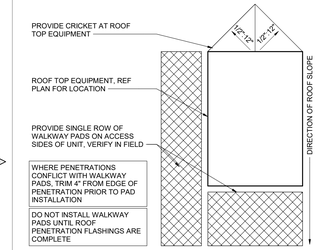
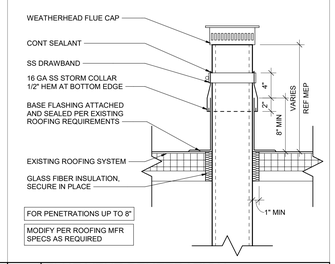


4 ROOF CURB
1 1/2" = 1'-0"



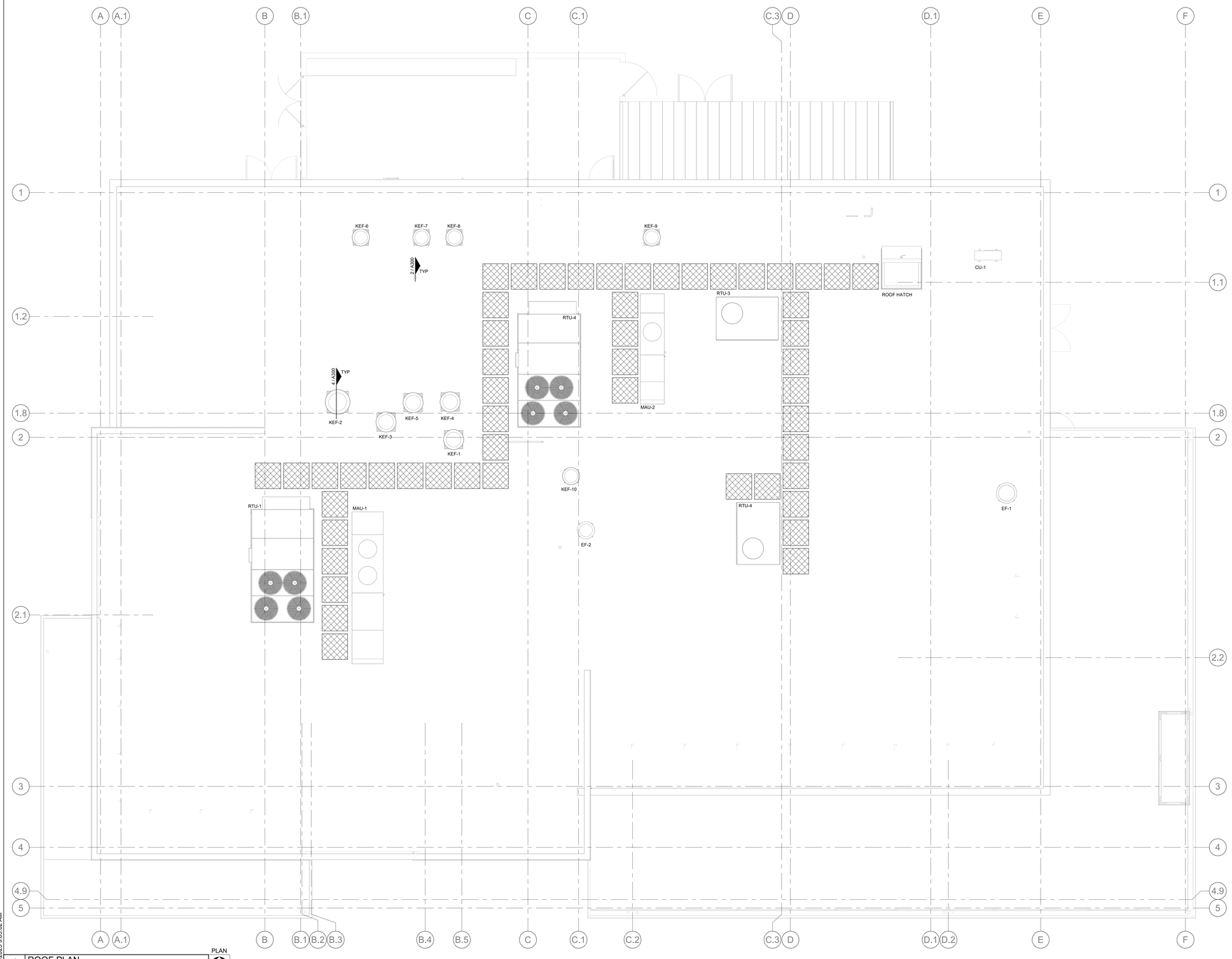
3 WALKWAY PADS AND CRICKETS
1 1/2" = 1'-0"



2 FLUE VENT PENETRATION
1 1/2" = 1'-0"

SHEET NOTES

1. REFERENCE MEPR FOR NEW EQUIPMENT AND PENETRATIONS, SHOWN FOR REFERENCE ONLY
2. ROOF TOP UNITS PROVIDED UNDER SHELL DRAWINGS, SHOWN FOR REFERENCE ONLY
3. PAINT ALL PIPING ON ROOF SAFETY YELLOW
4. PROVIDE CONTINUOUS WALKWAY PAD AT ROOFTOP EQUIPMENT. PROVIDE WALKWAY PAD FROM ROOF ACCESS POINT TO ALL SERVICEABLE EQUIPMENT, REF 3 / A300



1 ROOF PLAN
1/4" = 1'-0"
PLAN

11/14/2025 9:05:02 AM

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:50

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BRR ARCHITECTURE INC.
8131 METCALF AVENUE
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OVERLAND PARK, KS 66204
WWW.BRRARCH.COM
TEL: 913-262-9096
FAX: 913-262-9044

CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

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MARK SCHISLER
NUMBER A-2007019644
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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

ROOF PLAN

SHEET NUMBER

A300

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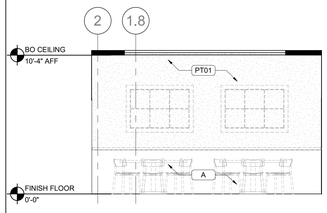
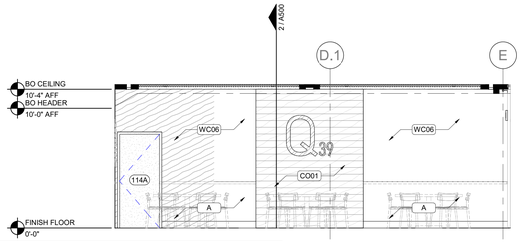
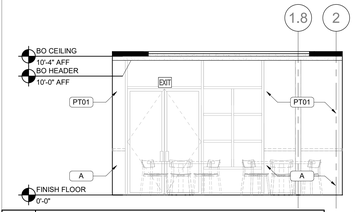
ALL SIGNAGE SHOWN FOR REFERENCE ONLY
CONFIRM FINAL SIGNAGE PACKAGE WITH OWNER



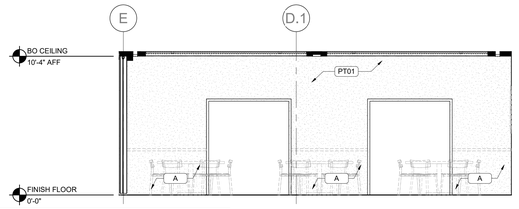
19 PRIVATE DINING 04
1/4" = 1'-0"



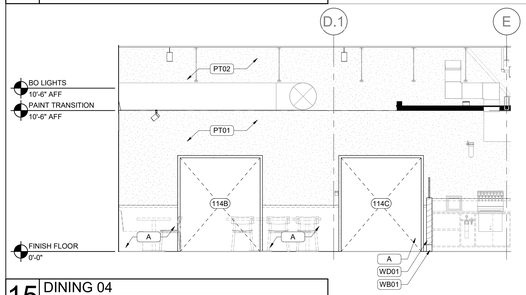
18 PRIVATE DINING 03
1/4" = 1'-0"



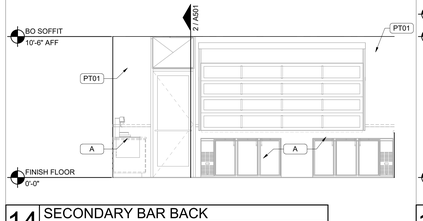
17 PRIVATE DINING 02
1/4" = 1'-0"



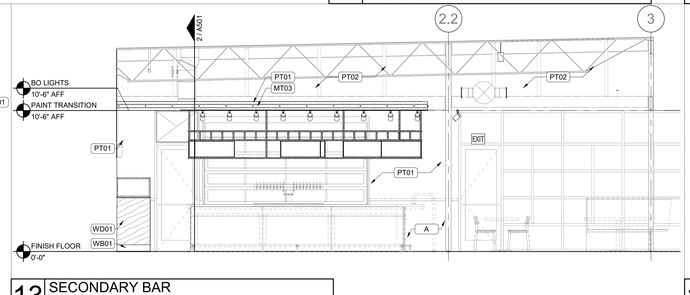
16 PRIVATE DINING 01
1/4" = 1'-0"



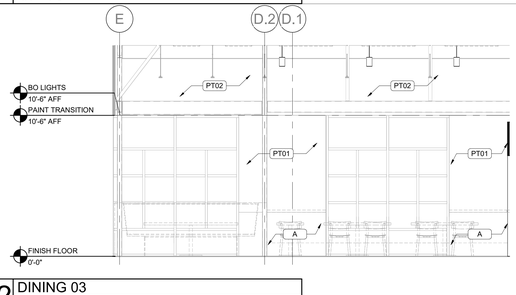
15 DINING 04
1/4" = 1'-0"



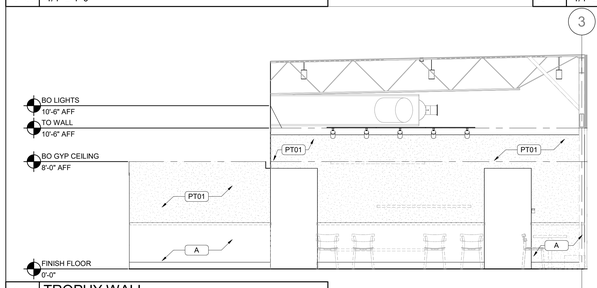
14 SECONDARY BAR BACK
1/4" = 1'-0"



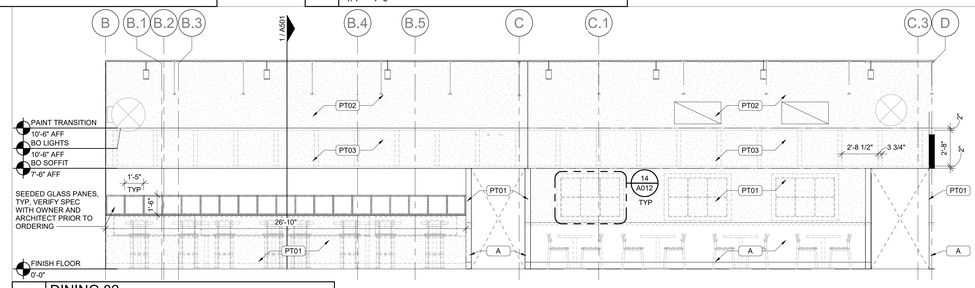
13 SECONDARY BAR
1/4" = 1'-0"



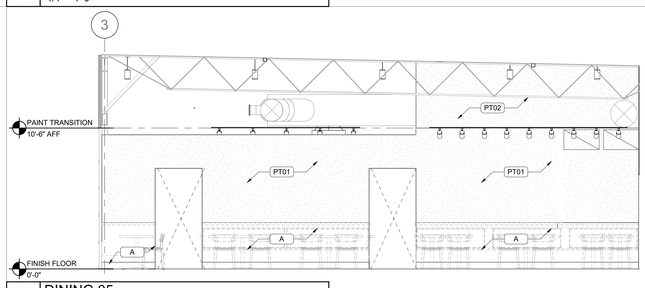
12 DINING 03
1/4" = 1'-0"



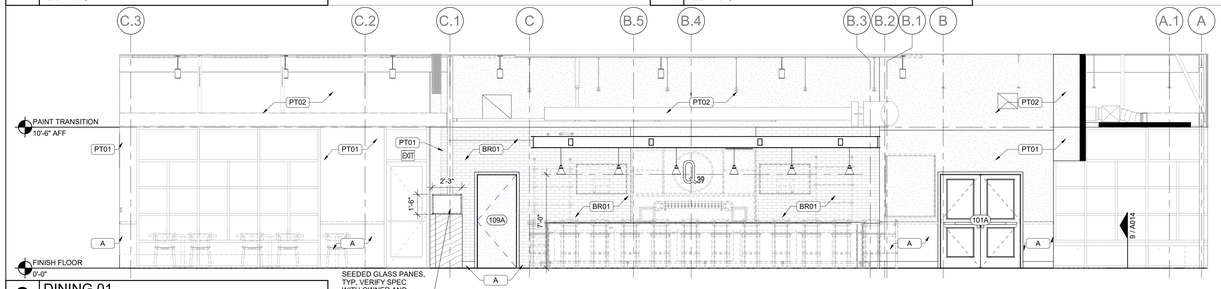
11 TROPHY WALL
1/4" = 1'-0"



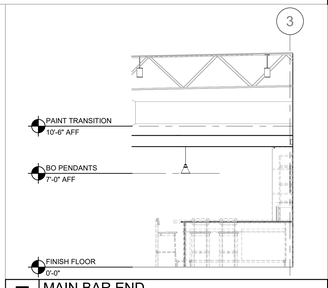
10 DINING 02
1/4" = 1'-0"



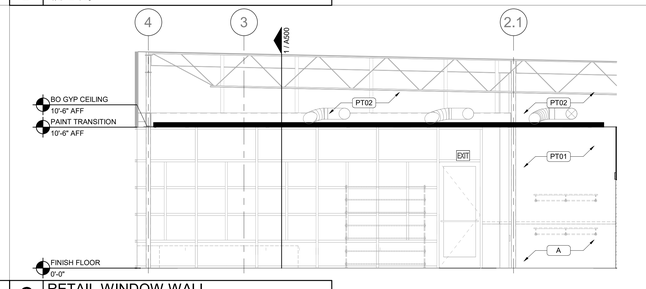
9 DINING 05
1/4" = 1'-0"



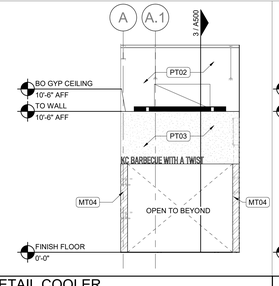
8 DINING 01
1/4" = 1'-0"



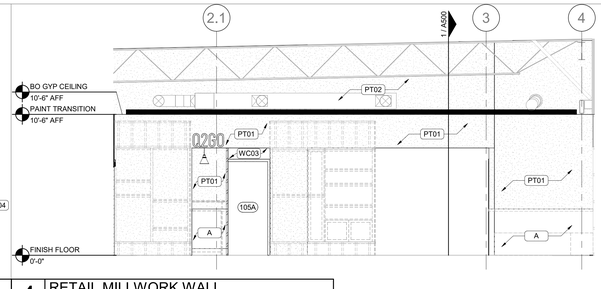
7 MAIN BAR END
1/4" = 1'-0"



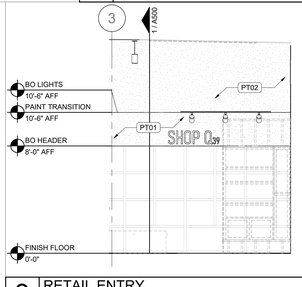
6 RETAIL WINDOW WALL
1/4" = 1'-0"



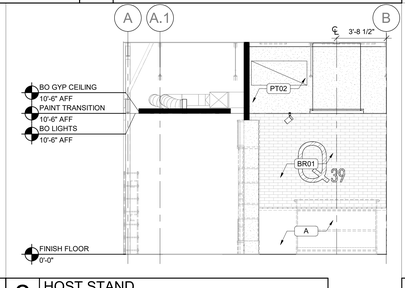
5 RETAIL COOLER
1/4" = 1'-0"



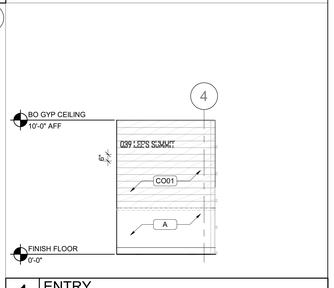
4 RETAIL MILLWORK WALL
1/4" = 1'-0"



3 RETAIL ENTRY
1/4" = 1'-0"



2 HOST STAND
1/4" = 1'-0"



1 ENTRY
1/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:50

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WWW.BRRARCH.COM
TEL: 913-262-5095
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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISSLER
NUMBER A-2003019024
REGISTERED ARCHITECT

11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

INTERIOR ELEVATIONS

SHEET NUMBER

A400

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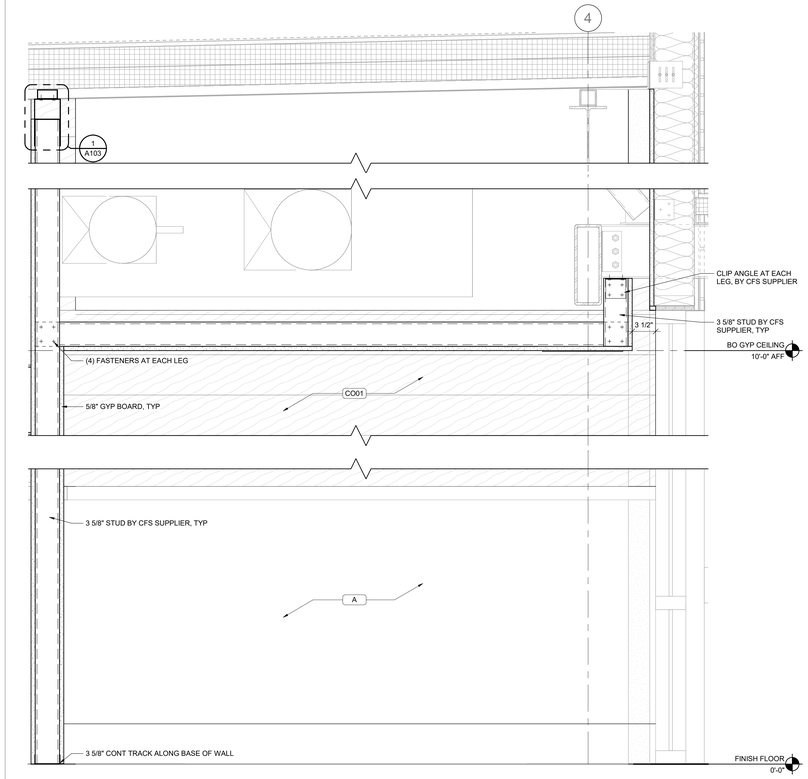
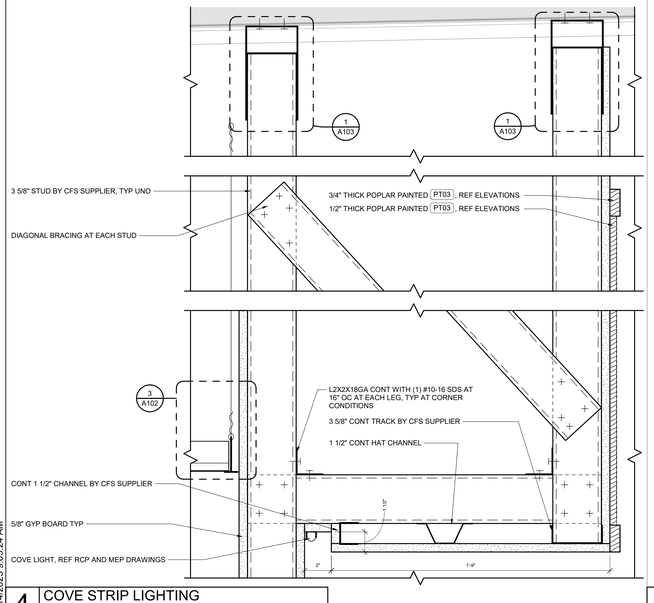
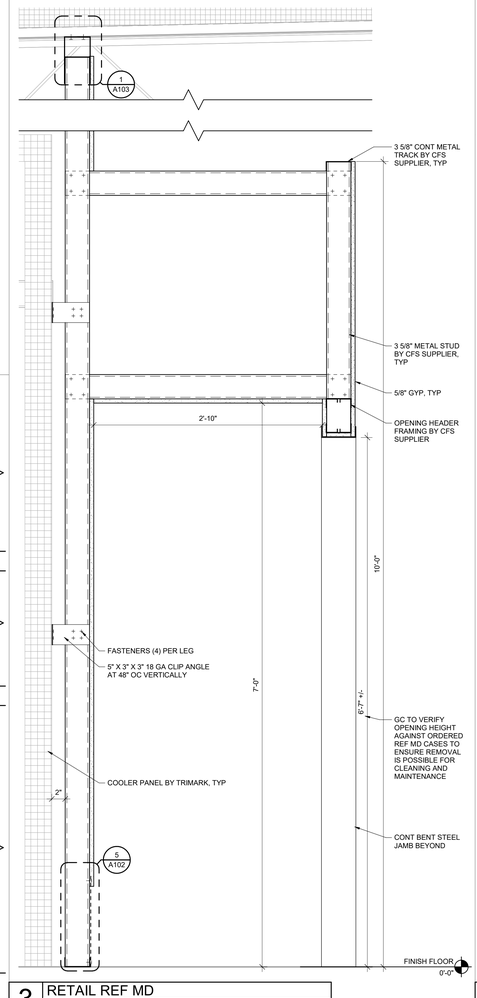


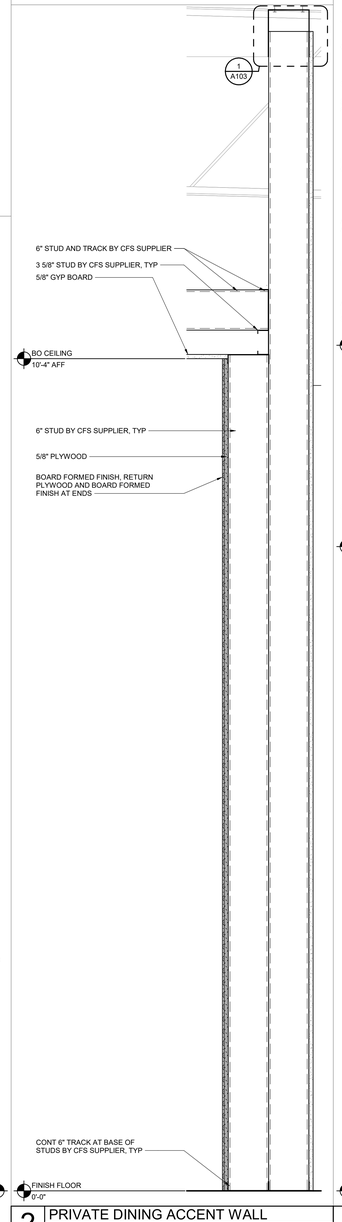
5 VESTIBULE SECTION
1 1/2" = 1'-0"



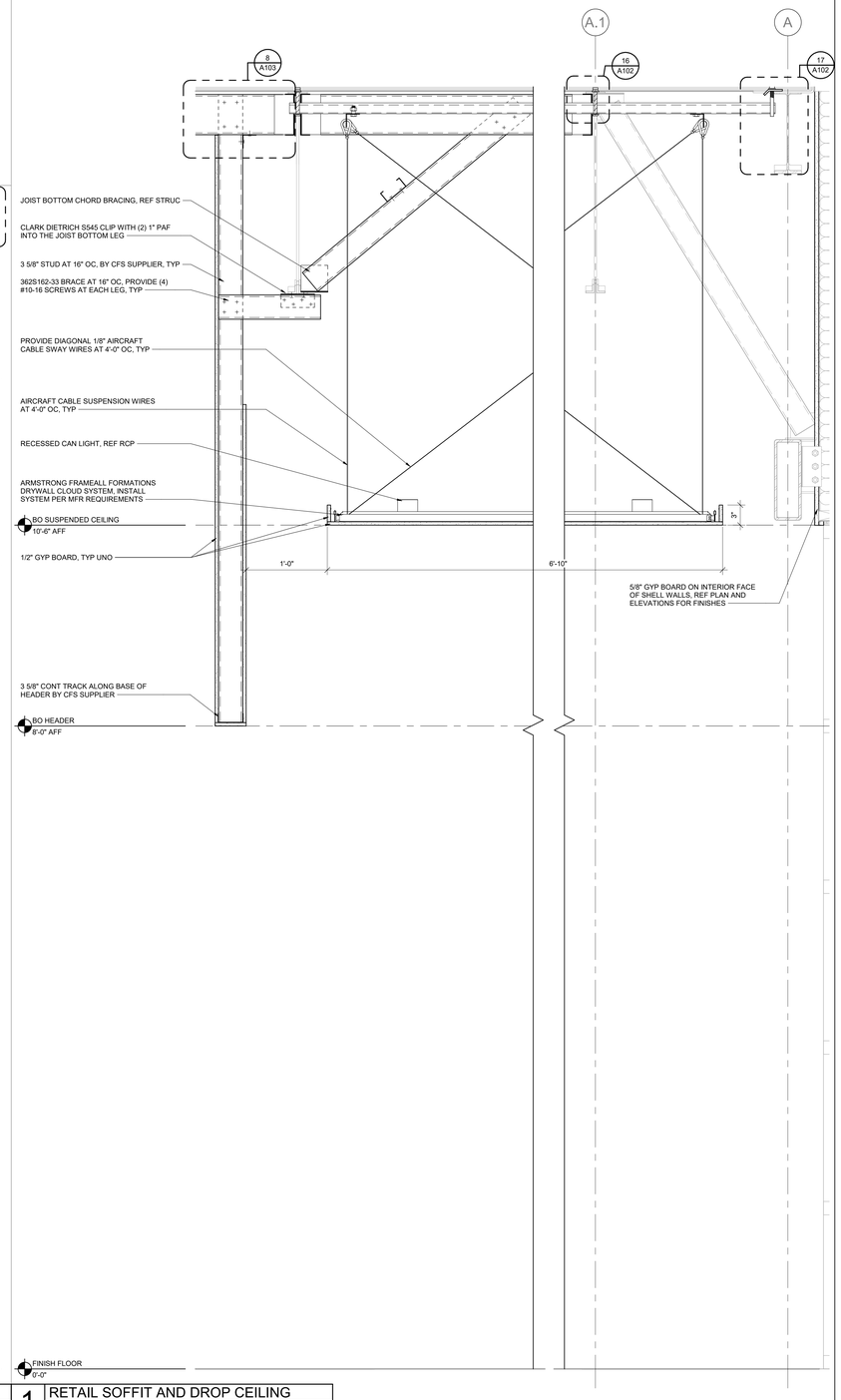
4 COVE STRIP LIGHTING
3" = 1'-0"



3 RETAIL REF MD
1 1/2" = 1'-0"



2 PRIVATE DINING ACCENT WALL
1 1/2" = 1'-0"



1 RETAIL SOFFIT AND DROP CEILING
1 1/2" = 1'-0"

SHEET NOTES

1. REFERENCE GENERAL INFORMATION FOR FASTENERS TYPE CHART
2. REFERENCE PARTITION PLAN AND PARTITION DETAILS FOR WALL TYPES
3. REFERENCE FLOOR FINISH PLAN AND WALL FINISH PLAN FOR ADDITIONAL INFORMATION
4. REFERENCE REFLECTED CEILING PLAN FOR SOFFIT DIMENSIONS AND FINISHES
5. REFERENCE INTERIOR ELEVATIONS FOR TRANSITIONS BETWEEN SUBSTRATES
6. ALL BLOCKING BY GC, COORDINATE WITH OWNER AND REFERENCE MILLWORK PLAN FOR LOCATIONS
7. PROVIDE CONTINUOUS 4X4X20GA CLIP ANGLE AT ALL OUTSIDE CORNERS OF WALLS INCLUDING WHERE SHOWN IN SECTION
8. EQUIPMENT SHOWN DASHED FOR CLARITY
9. SHELL CONSTRUCTION SHOWN HALFTONE FOR REFERENCE ONLY
10. DIMENSIONS SHOWN TO/FROM FACE OF FINISH UNO

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHERRER
NUMBER A-2007019944
11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

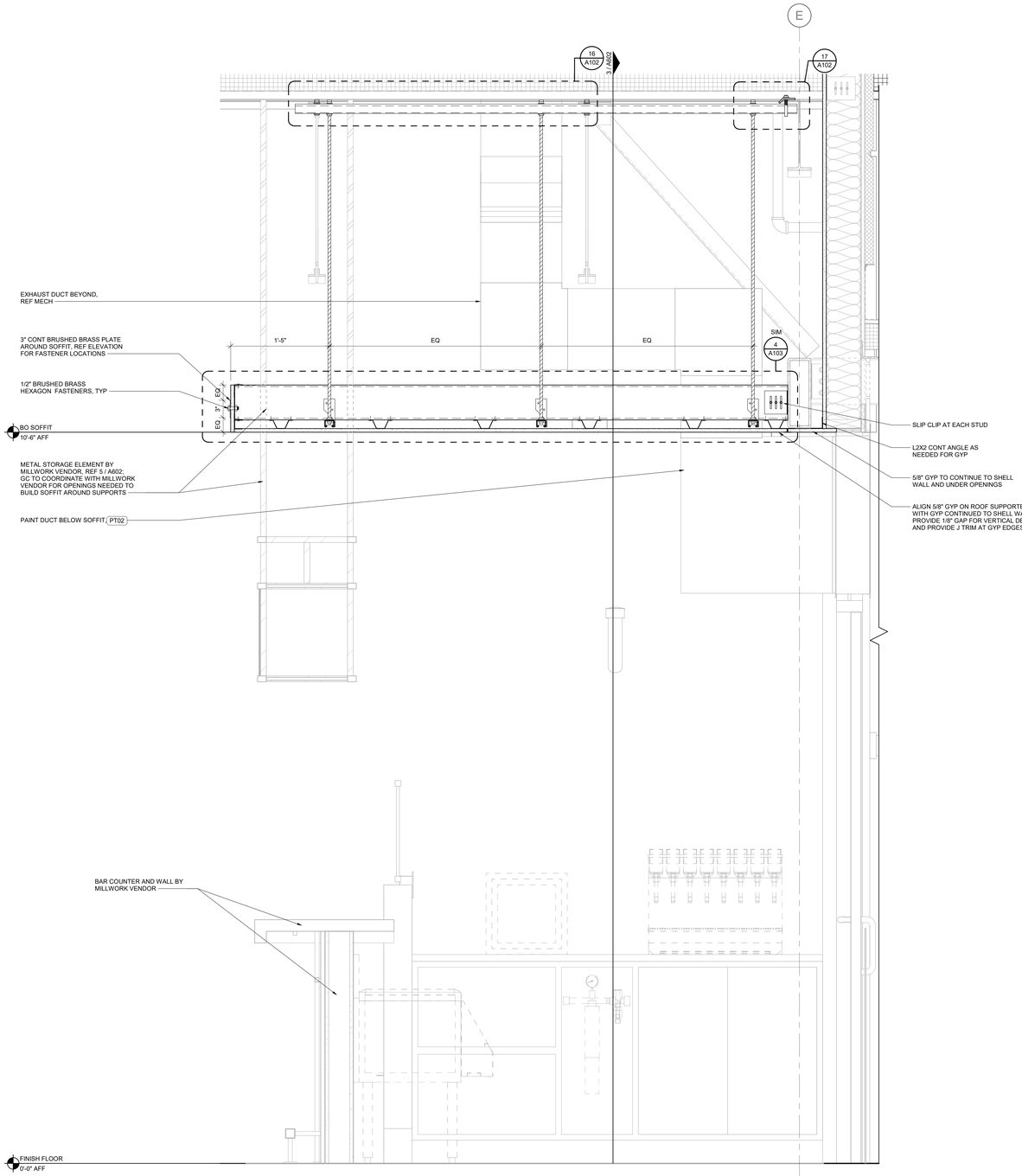
SHEET NAME
WALL SECTIONS

SHEET NUMBER
A500

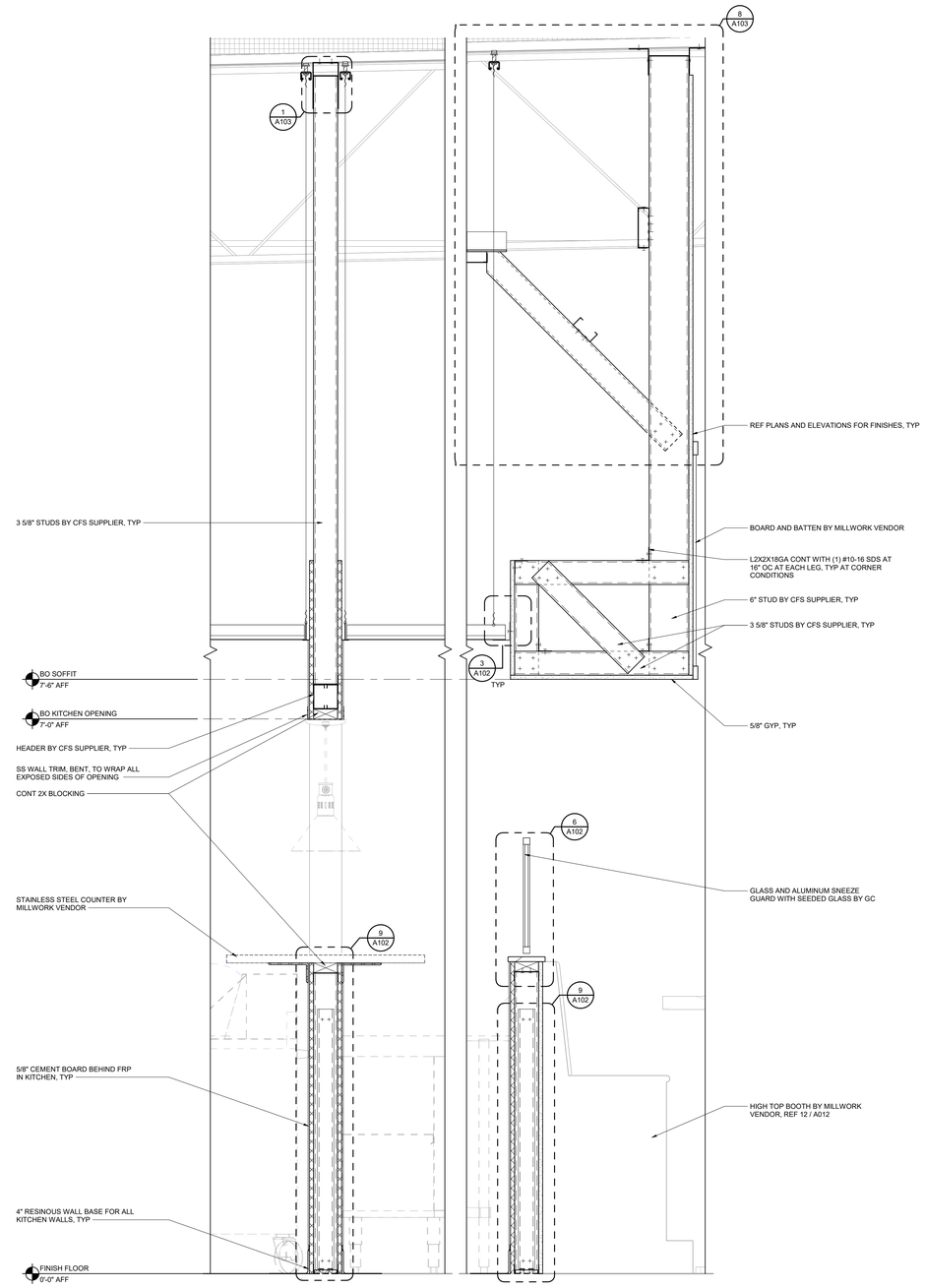
11/14/2025 9:05:24 AM

SHEET NOTES

1. REFERENCE GENERAL INFORMATION FOR FASTENERS TYPE CHART
2. REFERENCE PARTITION PLAN AND PARTITION DETAILS FOR WALL TYPES
3. REFERENCE FLOOR FINISH PLAN AND WALL FINISH PLAN FOR ADDITIONAL INFORMATION
4. REFERENCE REFLECTED CEILING PLAN FOR SOFFIT DIMENSIONS AND FINISHES
5. REFERENCE INTERIOR ELEVATIONS FOR TRANSITIONS BETWEEN SUBSTRATES
6. ALL BLOCKING BY GC, COORDINATE WITH OWNER AND REFERENCE MILLWORK PLAN FOR LOCATIONS
7. PROVIDE CONTINUOUS 4X4X20GA CLIP ANGLE AT ALL OUTSIDE CORNERS OF WALLS INCLUDING WHERE SHOWN IN SECTION
8. EQUIPMENT SHOWN DASHED FOR CLARITY
9. SHELL CONSTRUCTION SHOWN HALFTONE FOR REFERENCE ONLY
10. DIMENSIONS SHOWN TO/FROM FACE OF FINISH UNO



2 DUCT THROUGH BAR SOFFIT
1 1/2" = 1'-0"



1 EXPO SOFFIT SECTION
1 1/2" = 1'-0"

11/14/2025 9:05:25 AM

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
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NUMBER A-2005019644
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ISSUES AND REVISIONS

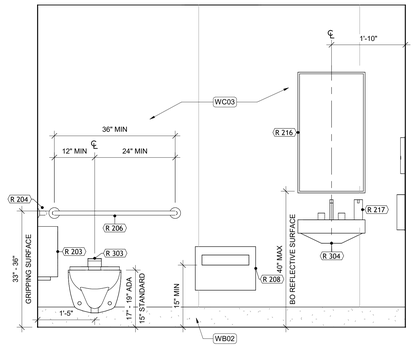
NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

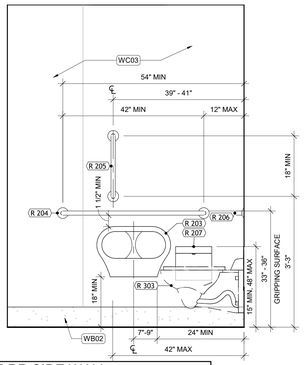
WALL SECTIONS

SHEET NUMBER

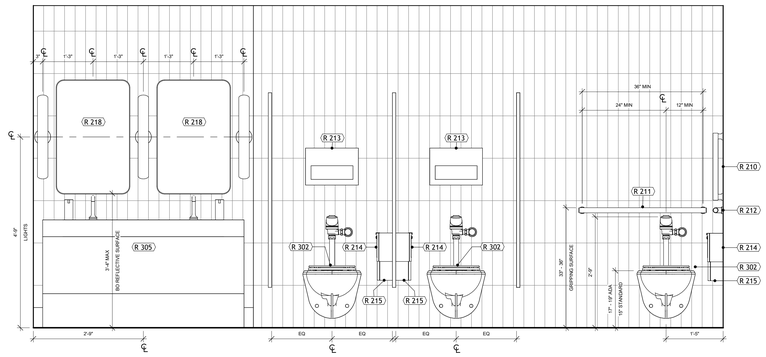
A501



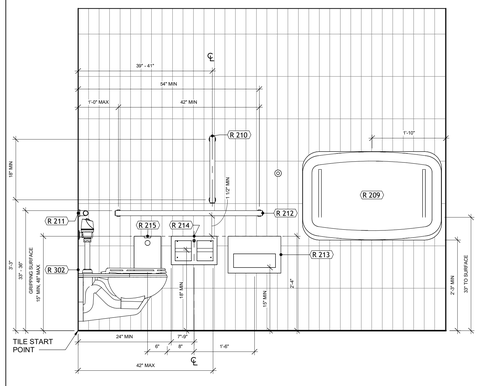
9 EMPLOYEE RR REAR WALL
3/4" = 1'-0"



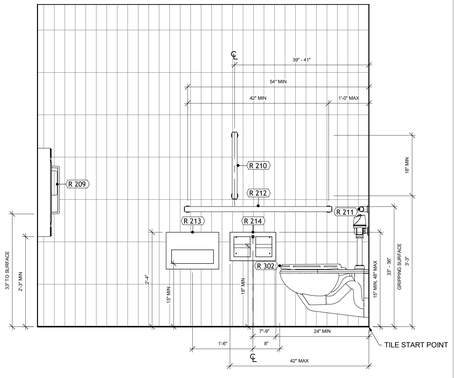
8 EMPLOYEE RR SIDE WALL
3/4" = 1'-0"



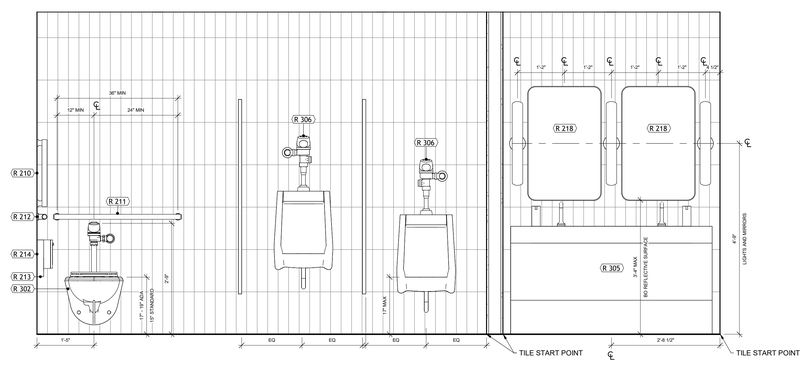
6 WOMEN'S RR REAR WALL
3/4" = 1'-0"



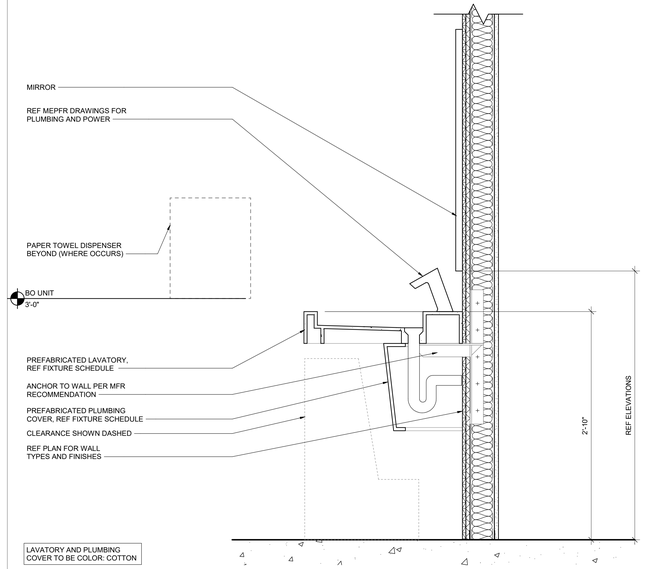
5 WOMEN'S RR SIDE WALL
3/4" = 1'-0"



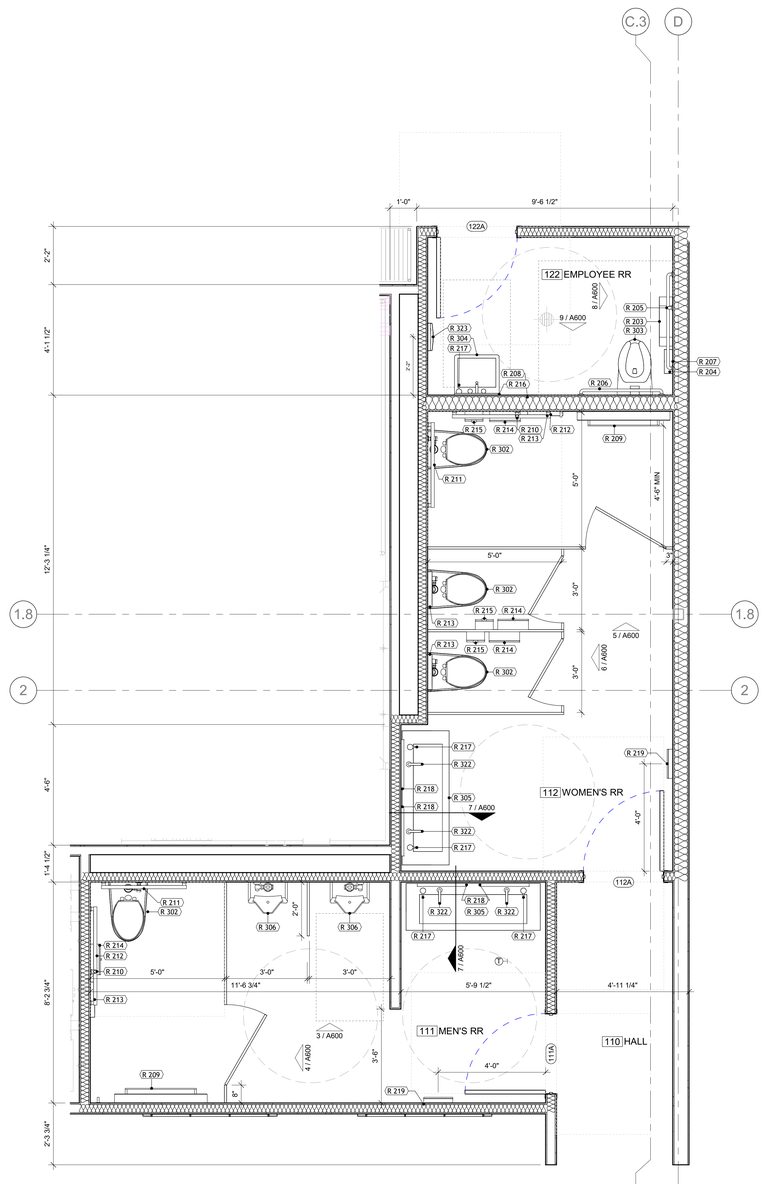
4 MEN'S RR SIDE WALL
3/4" = 1'-0"



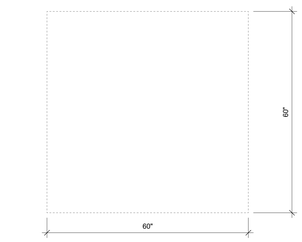
3 MEN'S RR REAR WALL
3/4" = 1'-0"



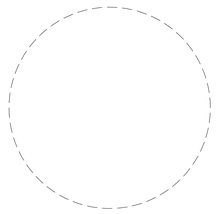
7 SOPHSTONE LAVATORY
1 1/2" = 1'-0"



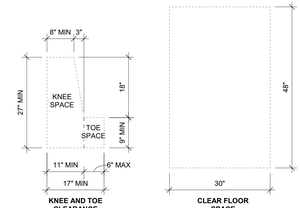
2 ENLARGED RR PLAN
1/2" = 1'-0"



CLEAR FLOOR
SPACE AT WATER
CLOSETS
(PLAN VIEW)



TURNING RADIUS
(PLAN VIEW)



KNEE AND TOE
CLEARANCE
(SECTION VIEW)

CLEAR FLOOR
SPACE
(PLAN VIEW)

1 ADA CLEARANCES
3/4" = 1'-0"

SHEET NOTES

1. REFERENCE GENERAL INFORMATION FOR SIGNAGE, COORDINATE WITH LOCAL JURISDICTIONAL REQUIREMENTS
2. REFERENCE PLUMBING FOR FIXTURE SPECS, SHOWN FOR REFERENCE ONLY
3. GC TO INSTALL ALL OWNER FURNISHED RESTROOM ACCESSORIES
4. PROVIDE CONTINUOUS SEALANT AT PERIMETER OF ALL RESTROOM EQUIPMENT, COORDINATE WITH OWNER
5. PROVIDE SOUND BATT INSULATION IN ALL RESTROOM WALLS AND CEILINGS
6. PROVIDE BLOCKING AT ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES
7. DIMENSIONS SHOWN TO/FROM FACE OF FINISH, UNO
8. MOUNT ACCESSORIES IN COMPLIANCE WITH ADA REQUIREMENTS
9. TOILET PARTITIONS TO BE SCRANTON ECLIPSE PARTITIONS IN BLACK - ORANGE PEEL FINISH; REF SPECS FOR MORE INFORMATION.

TOILET ACCESSORIES

MARK	QTY	MANUFACTURER	MODEL	DESCRIPTION
R 203	1	CASCADES PRO	TANDEM C233	TOILET PAPER DISPENSER
R 204	1	BOBRICK	B-5806.99-42	42" GRAB BAR, 1 1/4" DIAMETER
R 205	1	BOBRICK	B-5806.99-18	18" GRAB BAR, 1 1/4" DIAMETER
R 206	1	BOBRICK	B-5806.99-36	36" GRAB BAR, 1 1/4" DIAMETER
R 207	1	BOBRICK	B-270	SANITARY NAPKIN DISPOSAL
R 208	1	BOBRICK	B-221	SEAT COVER DISPENSER
R 209	2	KOALA KARE	KB310-SSWM	KB310-SSWM Baby Changing Station Closed Position
R 210	2	BOBRICK	B-9806-18	1½" DIA. 18" STAINLESS STEEL GRAB BAR WITH CONCEALED FLANGE, MATTE BLACK
R 211	2	BOBRICK	B-9806-36	1½" DIA. 36" STAINLESS STEEL GRAB BAR WITH CONCEALED FLANGE, MATTE BLACK
R 212	2	BOBRICK	B-9806-42	1½" DIA. 42" STAINLESS STEEL GRAB BAR WITH CONCEALED FLANGE, MATTE BLACK
R 213	4	BOBRICK	B-221	SURFACE MOUNTED SEAT COVER DISPENSER, MATTE BLACK
R 214	4	BY OWNER	BY OWNER	TOILET PAPER DISPENSER
R 215	3	BOBRICK	B-35139	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL, MATTE BLACK
R 216	1	BOBRICK	B-165	MIRROR
R 217	5	BY OWNER	BY OWNER	SOAP DISPENSER
R 218	4	KOHLER Co.	K-26052-BLL	RECTANGLE MIRRO 22IN X 34IN MATTE BLACK
R 219	2	BOBRICK	B-38032.MBLK	TRIMLINE SERIES PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
R 302	4	SLOAN	REF MEP	WALL MOUNTED WATER CLOSET, WHITE
R 303	1	REF MEP	REF MEP	FLOOR MOUNTED WATER CLOSET, WHITE
R 304	1	REF MEP	REF MEP	WALL MOUNTED LAVATORY, WHITE
R 305	2	TRUEFORM CONCRETE	FLO-60V-ADA	GRAPHITE
R 306	2	SLOAN VALVE	REF MEP	URINAL, WHITE
R 322	4	DELTA COMMERCIAL	REF MEP	DRIFTEX FAUCET, MATTE BLACK
R 323	1	BOBRICK	B-4369	RECESSED PAPER TOWEL DISPENSER

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
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ARCHITECT OF RECORD

brr
BRR ARCHITECTURE INC.
8131 METCALF AVENUE
SUITE 300
OVERLAND PARK, KS 66204
WWW.BRRARCH.COM
TEL: 913-262-9095
FAX: 913-262-9044

CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHEIBER
NUMBER A-2021019824
REGISTERED ARCHITECT

11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

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ENLARGED
RESTROOM PLANS
& DETAILS

SHEET NUMBER

A600

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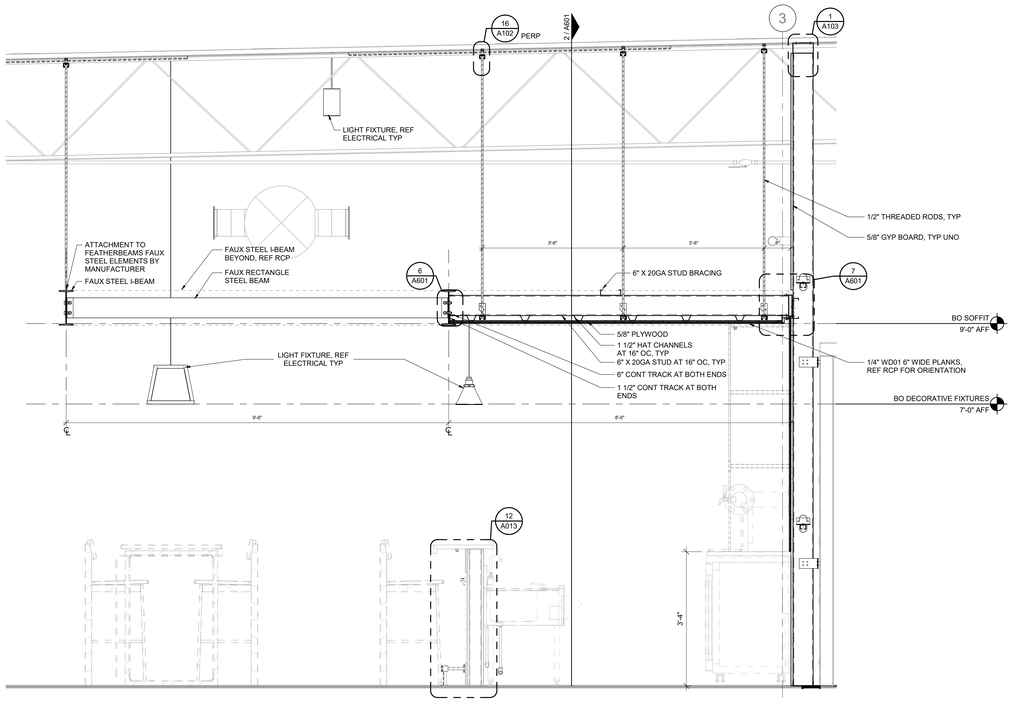
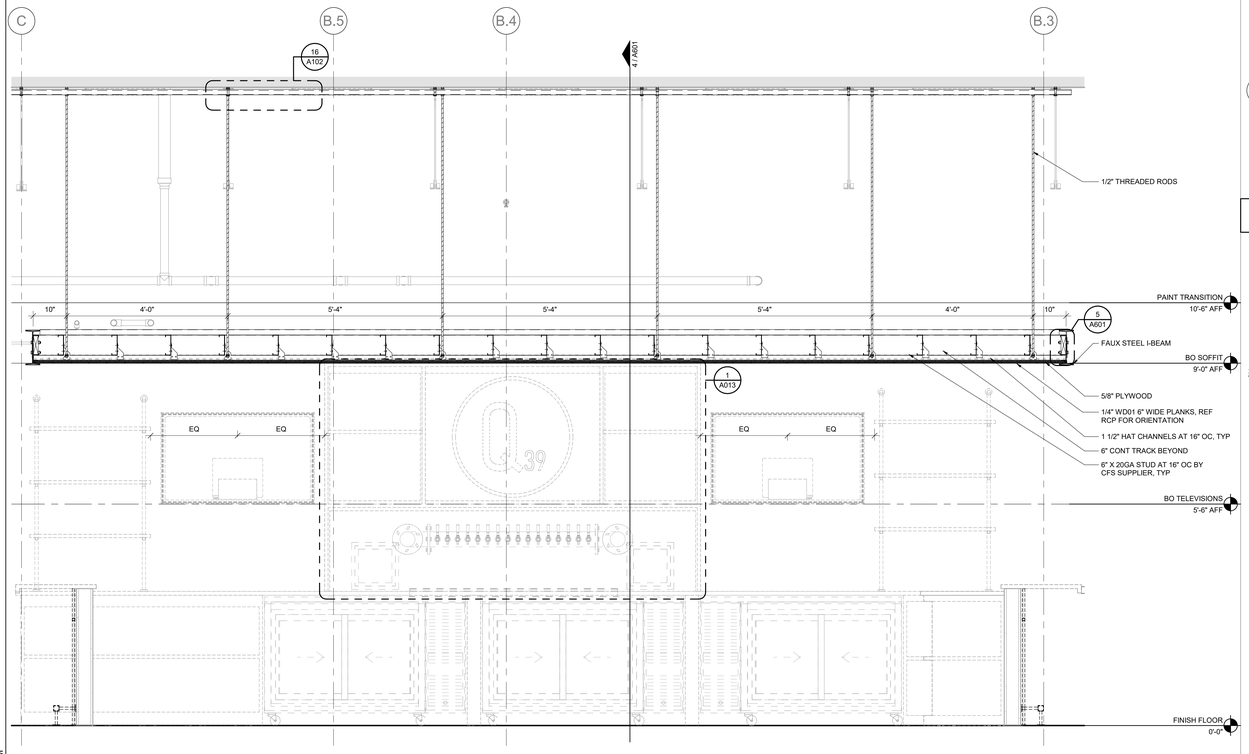


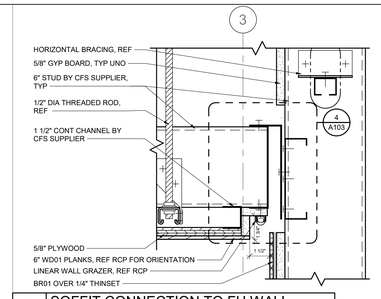
4 PRIMARY BAR NS SECTION
3/4" = 1'-0"

NOTE:
ALL FAUX STEEL ELEMENTS INCLUDING CONNECTION JOINTS ARE MANUFACTURED AND ASSEMBLED BY FEATHERBEAMS.

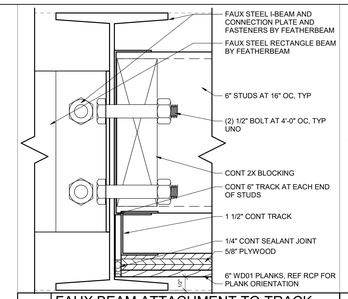


2 PRIMARY BAR EW SECTION
3/4" = 1'-0"

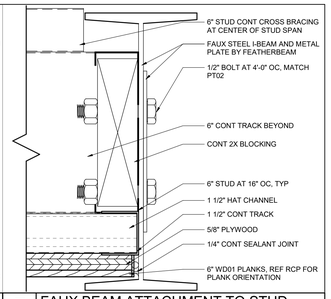
NOTE:
ALL FAUX STEEL ELEMENTS INCLUDING CONNECTION JOINTS ARE MANUFACTURED AND ASSEMBLED BY FEATHERBEAMS.



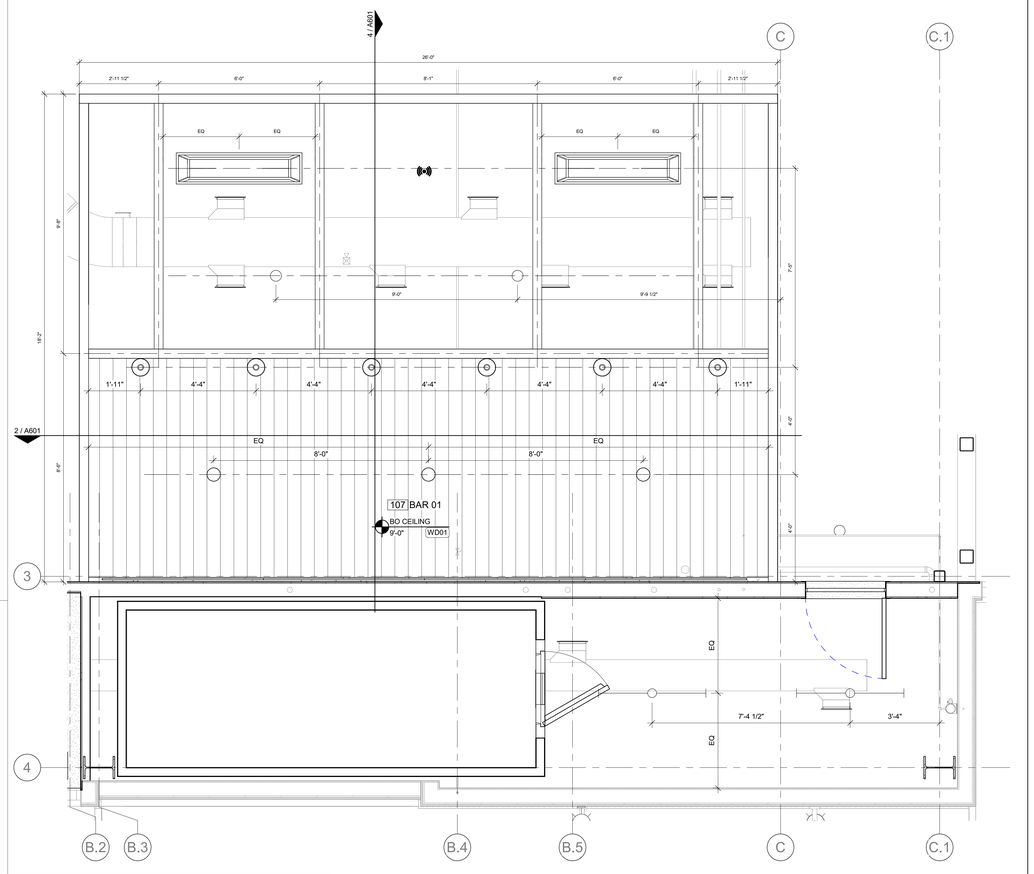
7 SOFFIT CONNECTION TO FH WALL
3" = 1'-0"



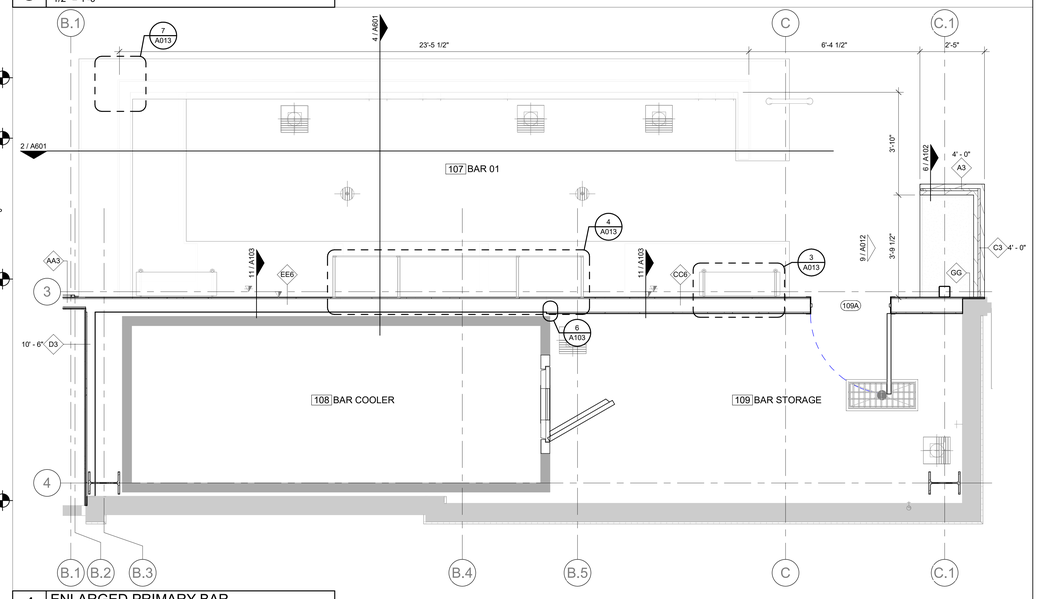
6 FAUX BEAM ATTACHMENT TO TRACK
6" = 1'-0"



5 FAUX BEAM ATTACHMENT TO STUD
6" = 1'-0"



3 PRIMARY BAR RCP
1/2" = 1'-0"



1 ENLARGED PRIMARY BAR
1/2" = 1'-0"

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

MARK SCHERRER
NUMBER A-30403
REGISTERED ARCHITECT
STATE OF MISSOURI

11/14/2025

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ISSUES AND REVISIONS

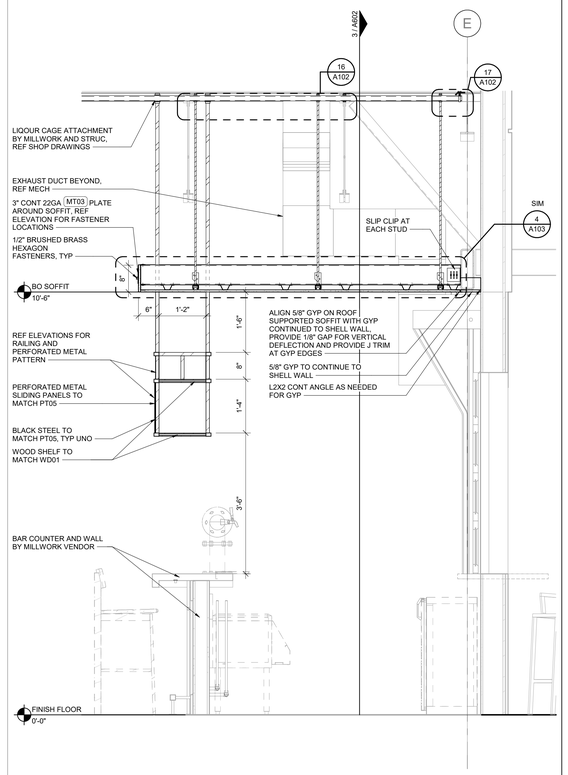
NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

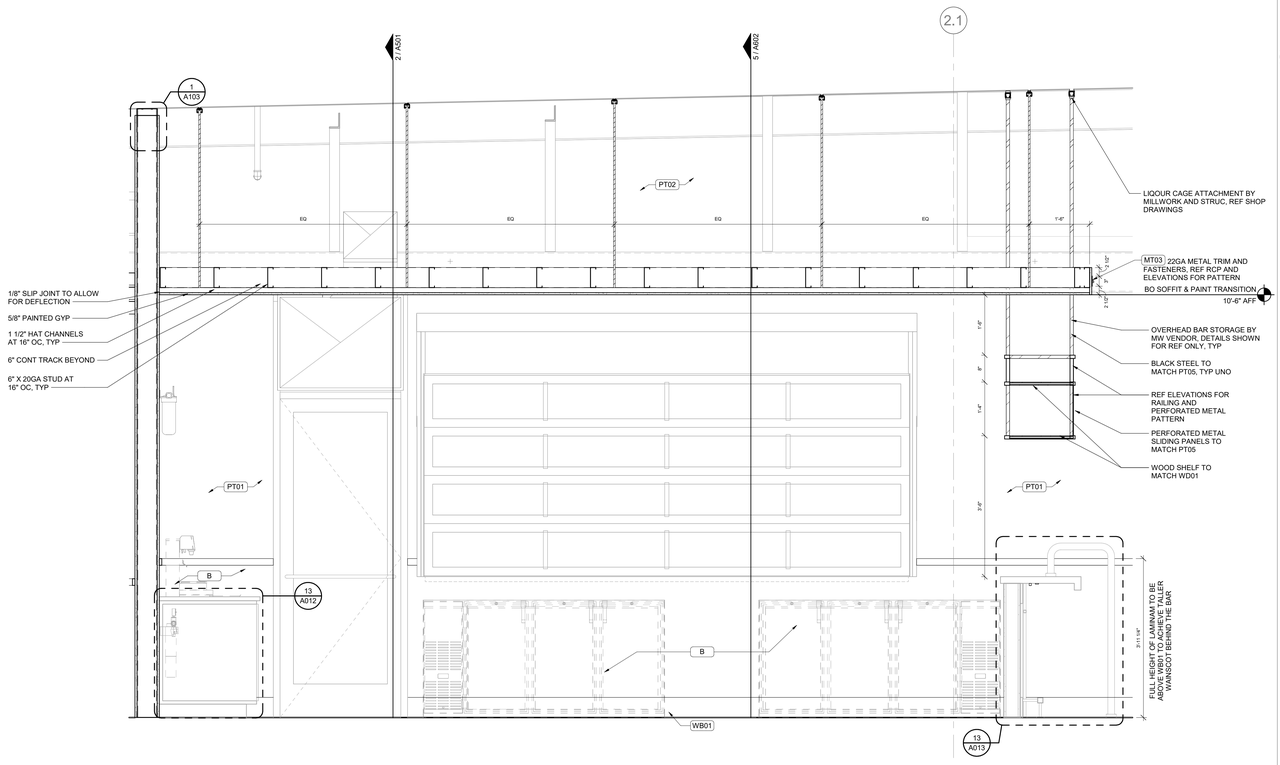
MAIN BAR PLANS & ELEVATIONS

SHEET NUMBER

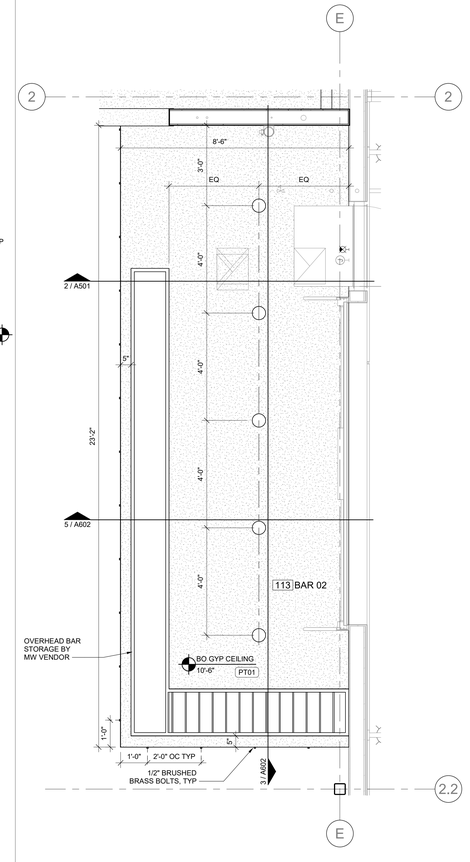
A601



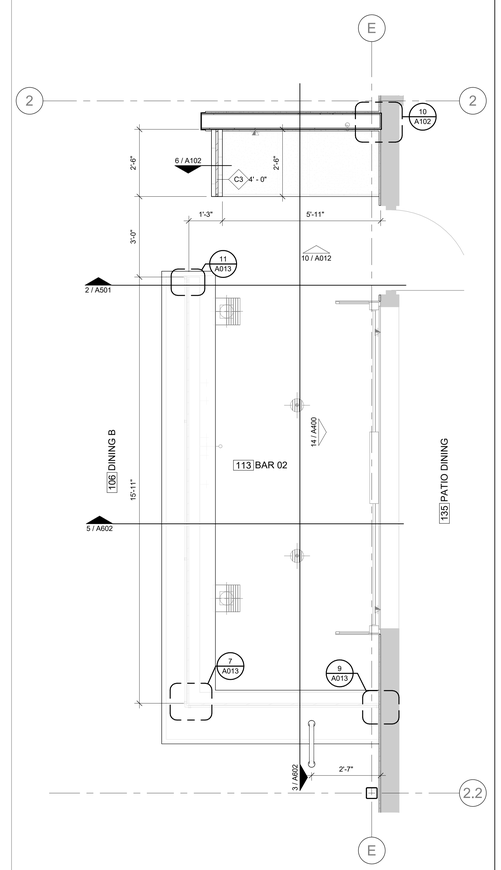
5 OVERHEAD BAR STORAGE
3/4" = 1'-0"



3 SECONDARY BAR SECTION
3/4" = 1'-0"



2 SECONDARY BAR RCP
1/2" = 1'-0"



1 ENLARGED SECONDARY BAR
1/2" = 1'-0"

11/14/2025 9:05:36 AM

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHEIBER
NUMBER A-2003019424
ARCHITECT

11/14/2025

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SECONDARY BAR
PLANS & DETAILS

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A602

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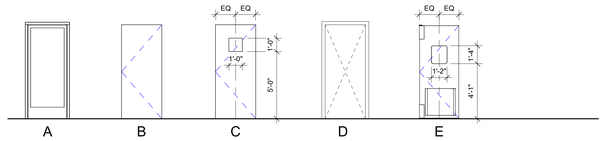
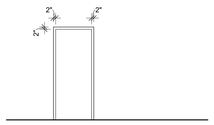
DOOR TYPES



FRAME TYPES



DOOR SCHEDULE

MARK	ROOM	DOOR TYPE	DOOR QUANTITY	DOOR DIMENSIONS OVERALL WIDTH	DOOR DIMENSIONS LEAF WIDTH	DOOR DIMENSIONS HEIGHT	DOOR MATERIAL	FRAME TYPE	FRAME DETAIL #/A800	FRAME MATERIAL	HARDWARE	NOTE
101A	VESTIBULE	A	PR	6' - 0"	3' - 0"	7' - 0"	ALUMINUM / GLASS	1	4	ALUMINUM	BY MANUF.	1, 2
105A	ORDER PICKUP	D	NA	3' - 0"	NA	7' - 0"	---	1	3	WOOD	-	
109A	BAR STORAGE	B	1	3' - 0"	3' - 0"	7' - 0"	WOOD	1	1	HOLLOW METAL	4.0	3
111A	MEN'S RR	B	1	3' - 0"	3' - 0"	7' - 0"	WOOD	1	1	HOLLOW METAL	6.0	3
112A	WOMEN'S RR	B	1	3' - 0"	3' - 0"	7' - 0"	WOOD	1	1	HOLLOW METAL	6.0	3
114A	KITCHEN	B	1	3' - 0"	3' - 0"	7' - 0"	HOLLOW METAL	1	1	HOLLOW METAL	6.0	
114B	PRIVATE DINING	D	NA	6' - 0"	NA	7' - 0"	---	1	3	WOOD	-	
114C	PRIVATE DINING	D	NA	6' - 0"	NA	7' - 0"	---	1	3	WOOD	-	
115A	OFFICE	C	1	3' - 0"	3' - 0"	7' - 0"	HOLLOW METAL	1	1	HOLLOW METAL	2.0	
119A	BUTCHER	E	1	3' - 0"	3' - 0"	7' - 0"	PLASTIC	1	2	HOLLOW METAL	7.0	
122A	EMPLOYEE RR	B	1	3' - 0"	3' - 0"	7' - 0"	HOLLOW METAL	1	1	HOLLOW METAL	5.0	
123A	STORAGE	B	1	3' - 0"	3' - 0"	7' - 0"	HOLLOW METAL	1	1	HOLLOW METAL	1.0	
124A	OFFICE	C	1	3' - 0"	3' - 0"	7' - 0"	HOLLOW METAL	1	1	HOLLOW METAL	3.0	

SCHEDULE NOTES

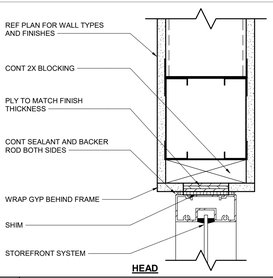
1. GC TO ADJUST HARDWARE SET QUANTITY FOR LOCATIONS WHERE OPENING CALLS FOR A PAIR OF DOORS
2. EFCO STOREFRONT DOOR TO MATCH THE SHELL VESTIBULE ENTRY DOOR
3. WOOD DOOR FINISH TO MATCH WD01

DOOR NOTES

1. FINAL KEYING BY OWNER, COORDINATE WITH CM
2. SCHEDULED WIDTH AND HEIGHT INDICATE DOOR SIZE
3. PROVIDE FULLY THROATED DOOR FRAMES ALL LOCATIONS, UNO
4. PROVIDE 1 3/4" DOOR THICKNESS, UNO
5. CUSTOMER VISIBLE WOOD DOOR FINISH TO MATCH ADJACENT WD01
6. REF SPEC SECTION 087100-13 FOR DOOR HARDWARE SETS.

GLAZING NOTES

1. PROVIDE TEMPERED GLAZING ALL LOCATIONS, UNO
2. CENTER GLAZING SYSTEMS ON WALL DEPTH, UNO
3. MATCH SHELL ALUMINUM STOREFRONT SYSTEM FINISH, UNO
4. 1/4" GLASS THICKNESS, UNO



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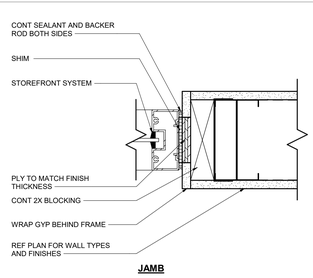
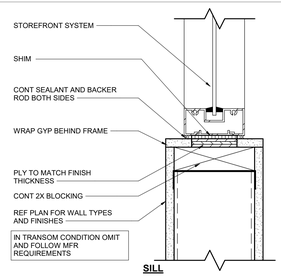
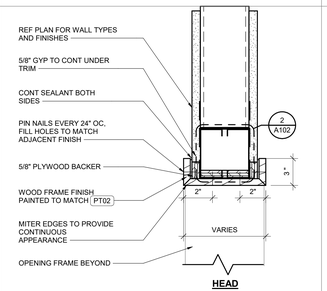


JAMB



SILL

4 STOREFRONT
3" = 1'-0"



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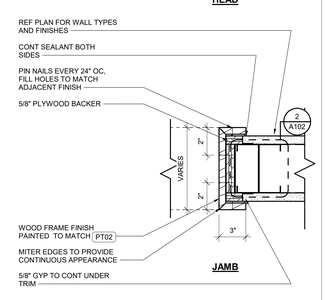
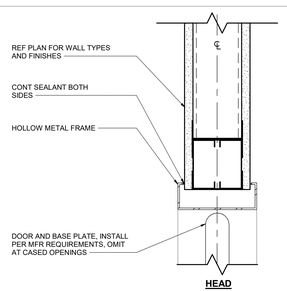


JAMB

3 WOOD FRAME
3" = 1'-0"



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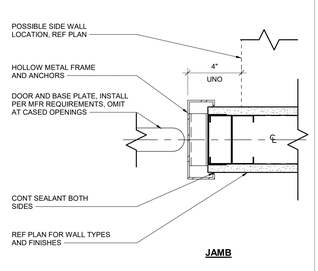
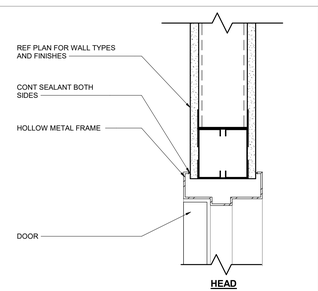


JAMB

2 FRAME AT FLEX
3" = 1'-0"



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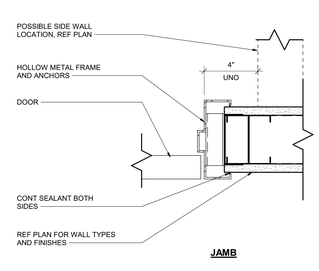

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1 FRAME AT HM
3" = 1'-0"

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CONSULTANT

OWNER

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	ND	GS

PROFESSIONAL SEAL

STATE OF MISSOURI
MARK SCHISLER
NUMBER A-2012019824
ARCHITECT

11/14/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
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SHEET NAME

DOOR AND WINDOW INFORMATION

SHEET NUMBER

A800

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STRUCTURAL NOTES

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GOVERNING CODE

2018 INTERNATIONAL BUILDING CODE (REFERENCES ASCE-7 16) WITH THE CITY OF LEE'S SUMMIT AMMENDMENTS.

DESIGN LOADS

1. ROOF LOAD (SHELL DRAWINGS).

A.	MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD ((P_f OR P_m)	20 PSF*
B.	ROOF MEMBRANE & INSULATION	4 PSF
C.	METAL DECK	2 PSF
D.	JOIST FRAMING LOAD	3 PSF
E.	SPRINKLERS	3 PSF
F.	DUCTS, LIGHTS, MISC. MECHANICAL	4 PSF
G	CEILING	2 PSF
	TOTAL LOAD ON JOISTS	38 PSF MIN
G.	BEAM/JOIST GIRDER LOAD	2 PSF
H.	TOTAL ON BEAMS/JOIST GIRDERS	40 PSF MIN

*FLAT ROOF SNOW LOAD, P_F = 14 PSF
GROUND SNOW, P_g = 20 PSF
SNOW LOAD IMPORTANCE FACTOR, I_S = 1.0
SNOW EXPOSURE FACTOR, C_e = 1.0
SNOW LOAD THERMAL FACTOR, C_t = 1.0
MINIMUM SNOW LOAD, P_m = 20 PSF

SEE SNOW DRIFT PLAN FOR DRIFT LOADS (P_d). SPECIFIED DRIFT LOADS (P_d) SHALL BE COMBINED WITH FLAT ROOF SNOW LOAD (P_f) OR SLOPED ROOF SNOW LOAD (P_s) FOR TOTAL SNOW LOADING AT DRIFT CONDITIONS

SECONDARY ROOF DRAINAGE VIA SCUPPERS OR OVERFLOW DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE AND ASCE 7. SECONDARY ROOF DRAINAGE SHALL BE DESIGNED BY OTHERS TO LIMIT THE TOTAL DEPTH OF WATER (STATIC HEAD + HYDRAULIC HEAD OVER SECONDARY ROOF DRAINS) TO 5" MAXIMUM ABOVE THE ROOF MEMBRANE AT THE PRIMARY ROOF DRAIN.

COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORTED MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.

2. WIND LOAD (PER ASCE 7):
   - A. BASIC DESIGN WIND SPEED, V= 109 MPH
   - B. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} = 85 MPH
   - C. RISK CATEGORY = II
   - D. WIND EXPOSURE = C (ALL WIND DIRECTIONS)
   - E. INTERNAL PRESSURE COEFFICIENT, GCpi = +0.18, -0.18
   - F. DESIGN PRESSURES FOR EXTERIOR COMPONENT AND CLADDING ITEMS NOT SPECIFICALLY DESIGNED BY THE ENGINEER OF RECORD: SEE TYPICAL COMPONENT AND CLADDING WIND PRESSURE TABLE.

3. SEISMIC LOAD

A.	SEISMIC RISK CATEGORY	= II
B.	SEISMIC IMPORTANCE FACTOR, I_e	= 1.0
C.	MAPPED SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIOD, S_S	= 0.1
D.	MAPPED SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND, S_1	= 0.068
E.	SITE CLASS	= D
F.	DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIOD, S_{DS}	= 0.107
G.	DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND PERIOD, S_{D1}	= 0.109
H.	SEISMIC DESIGN CATEGORY	= B
I.	BASIC SEISMIC FORCE RESISTING SYSTEM	= STEEL MOMENT FRAMES NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
J.	RESPONSE MODIFICATION COEFFICIENT, R	= 3
K.	SEISMIC RESPONSE COEFFICIENT, CS	= 0.036
L.	DESIGN BASE SHEAR	= 10 KIP
M.	ANALYSIS PROCEDURE USED	= ELFP

CONSTRUCTION AND SAFETY

1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
4. PRIOR TO COMMENCEMENT OF STEEL ERECTION, CONTRACTOR MUST PROVIDE THE STEEL ERECTOR WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.
5. ANCHOR RODS AND FOUNDATION DOWELS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY ALPHA-OMEGA GEOTECH, DATED 4/17/25. THE GEOTECHNICAL ENGINEER'S REPORT IS AVAILABLE UPON REQUEST.
   - A. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF BELOW STRIP FOOTINGS AND 2400 PSF BELOW ISOLATED COLUMN FOOTINGS.
2. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.
3. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
4. FILL MATERIALS: ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER, INCLUDING THE SUITABILITY OF ALL EXCAVATED ON-SITE SOILS FOR RE-USE. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.
   - A. CONTROLLED LOW STRENGTH MATERIAL (CLSM): SELF LEVELING AND SELF COMPACTING CEMENTITIOUS MATERIAL WITH AN UNCONFINED COMPRESSIVE STRENGTH BETWEEN 50 PSI AND 150 PSI.
   - B. WELL GRADED GRANULAR MATERIAL: WELL GRADED MIXTURE OF CRUSHED GRAVEL, CRUSHED STONE, AND SAND PER ASTM D294 WITH AT LEAST 95 PERCENT PASSING A 1 ½" SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE.
   - C. FREE DRAINING GRANULAR FILL: NARROWLY GRADED MIXTURE OF CRUSHED STONE PER ASTM D448 WITH COARSE AGGREGATE GRADING SIZE 67 WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NO MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.
   - D. IMPERVIOUS FILL: LEAN CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE.
5. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR CLSM UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS
6. FROST DEPTH IS 36 INCHES BELOW GRADE. BOTTOM OF FOOTINGS, MAT FOUNDATIONS AND GRADE BEAMS THAT ARE NOT PART OF AN INSULATED FROST PROTECTED FOUNDATION SYSTEM AND ARE NOT WITHIN CONDITIONED SPACE MUST BE BELOW SPECIFIED MINIMUM FROST DEPTH AS MEASURED FROM EXTERIOR GRADE. MAINTAIN SPECIFIED T/FDN ELEVATIONS AND THICKEN FOOTING OR PLACE ON CLSM AS REQUIRED.
7. FOUNDATIONS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL
8. LATERAL SOIL PRESSURES: LATERAL EARTH PRESSURES INDICATED BELOW DO NOT INCLUDE HYDROSTATIC OR COMPACTION PRESSURES DURING BACKFILL OPERATIONS. WALLS SHALL HAVE ADEQUATE DRAINAGE TO PREVENT HYDROSTATIC PRESSURES. COMPACT USING HAND-OPERATED TAMPERS ONLY.
   - A. CANTILEVERED RETAINING WALLS (ACTIVE PRESSURE): 55 PCF EQUIVALENT FLUID PRESSURE, TRIANGULAR DISTRIBUTION + SURCHARGE, RECTANGULAR DISTRIBUTION.
9. BACKFILL AGAINST WALLS:
   - A. INTERIOR FACE OF SHALLOW FOUNDATIONS WALLS:
     - i. CLSM OR IMPERVIOUS FILL (COMPACTED IN 6" LIFTS TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 3% OPTIMUM MOISTURE CONTENT). OR
     - ii. WELL GRADED GRANULAR MATERIAL (COMPACTED IN 6" LIFTS TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 2% OPTIMUM MOISTURE CONTENT); AT THE BOTTOM OF THE GRANULAR BACKFILL PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAIN PIPE. PROVIDE A POSITIVE SLOPE TO DAYLIGHT OR TO SUMP
   - B. EXTERIOR FACE OF SHALLOW FOUNDATION WALLS:
     - i. CLSM OR IMPERVIOUS FILL (COMPACTED IN 6" LIFTS TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 3% OPTIMUM MOISTURE CONTENT). OR
     - ii. WELL GRADED GRANULAR MATERIAL (COMPACTED IN 6" LIFTS TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 2% OPTIMUM MOISTURE CONTENT); AT THE BOTTOM OF THE GRANULAR BACKFILL PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAIN PIPE. PROVIDE A POSITIVE SLOPE TO DAYLIGHT OR TO SUMP
10. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 3% OPTIMUM MOISTURE CONTENT.
11. FILL BELOW FLOOR SLABS:
    - A. SUBGRADE: PROOF ROLL TOP 24" OF SUBGRADE BELOW INTERIOR SLAB TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 2% OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT OF BASE COURSE.
    - B. BASE COURSE: 4" OF CLEAN, OPEN GRADED CRUSHED LIMESTONE.
12. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED PRIOR TO FOOTING CONSTRUCTION.
    - A. BACKFILL TRENCHES UNDER FOOTINGS AND WITHIN 18 INCHES OF BOTTOM OF FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.
    - B. BACKFILL TRENCHES EXCAVATED UNDER FOOTINGS AND MORE THAN 18 INCHES BELOW BOTTOM OF FOOTINGS WITH CLSM OR OTHER FILL MATERIAL APPROVED BY GEOTECHNICAL ENGINEER.
13. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED AFTER FOOTING CONSTRUCTION.
    - A. BACKFILL TRENCHES EXCAVATED UNDER EXISTING FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.
14. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED IMPERVIOUS FILL OR CLSM TO CREATE A DAM TO PREVENT ENTRY OF WATER.
15. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION
16. EXCAVATIONS:
    - A. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS SHALL BE PERMITTED WITHOUT ANY SPECIAL MEASURES AS LONG AS THE BOTTOM NEAR EDGE OF THE EXCAVATION IS ABOVE A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION.
17. UTILITY TRENCHES PARALLEL TO FOOTINGS AND WITH PIPES BELOW THE BOTTOM OF FOOTING ELEVATION MUST BE LOCATED SO THAT THE SLOPE BETWEEN THE PIPE INVERT ELEVATION AND THE NEAREST BOTTOM CORNER OF THE FOOTING IS A MINIMUM OF 2 HORIZONTAL TO 1 VERTICAL.

CAST-IN-PLACE CONCRETE

1. CONCRETE MIXTURES: REFER TO CONCRETE MIXTURE REQUIREMENTS TABLE FOR CONCRETE MIX INFORMATION.
2. CONCRETE MATERIALS:
   - A. CEMENTITIOUS MATERIALS
     - i. PORTLAND CEMENT: ASTM C150, TYPE I OR TYPE II.
     - ii. BLENDED HYDRAULIC CEMENT: ASTM C595, TYPE IL, PORTLAND LIMESTONE CEMENT
     - iii. FLY ASH: ASTM C618, CLASS F OR C. FLY ASH SHALL NOT EXCEED 25% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
     - iv. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989, GRADE 100 OR 120. COMBINATION SLAG AND FLY ASH SHALL NOT EXCEED 50% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
   - B. AGGREGATES:
     - i. NORMAL WEIGHT AGGREGATES: ASTM C33, COARSE GRADED.
     - ii. LIGHTWEIGHT AGGREGATES: ASTM C330.
   - C. ADMIXTURES: ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
     - i. WATER REDUCING ADMIXTURE: ASTM C494.
     - ii. PLASTICIZING ADMIXTURE: ASTM C1017.
     - iii. AIR ENTRAINING ADMIXTURE: ASTM C260.
   - D. WATER: ASTM C94 AND POTABLE
3. DETAILING REQUIREMENTS
   - A. CONTRACTION JOINTS IN SLABS ON GROUND SHALL NOT EXCEED A LENGTH TO WIDTH RATIO OF 1.5:1. SEE PLAN FOR MAXIMUM JOINT SPACING.
   - B. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTRACTION JOINT LOCATION. SEE DRAWINGS FOR TYPICAL DETAILS.
   - C. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
   - D. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTRACTION JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.
   - E. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
   - F. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER GRANULAR BASE.
4. CONCRETE PLACEMENT
   - A. DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL CONCRETE STRENGTH HAS REACHED 0.75 f'c AND A MINIMUM OF 7 DAYS.
   - B. ROUGHENED SURFACES, WHERE INDICATED, SHALL EITHER BE:
     - i. ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4" AND BE CLEAN AND FREE OF LAITANCE.:
     - ii. FORMED BY EXPANDED METAL LEAVE-IN-PLACE MESH. SUBMIT PRODUCT INFORMATION FOR APPROVAL.
5. PERFORMANCE
   - A. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1-90 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R-16 "GUIDE TO COLD WEATHER CONCRETING".
   - B. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305.1-14 "SPECIFICATION FOR HOT WEATHER CONCRETING" AND ACI 305R-10 "GUIDE TO HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND SPEED SHALL BE ENTERED INTO NOMOGRAPH FIGURE 4.2 IN ACI 305R-10 TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.
   - C. TOLERANCES: CONFORM TO ACI 117-14
   - D. IF CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH WILL RESULT IN THE SPECIFIED SLUMP AT THE POINT OF PLACEMENT AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED ONCE ONLY TO THE REQUIRED VALUE BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING. AFTER PLASTICIZING OR WATER REDUCING ADMIXTURES ARE ADDED TO THE CONCRETE AT THE SITE TO ACHIEVE FLOWABLE CONCRETE, DO NOT ADD WATER TO THE CONCRETE. MEASURE SLUMP (AND AIR CONTENT OF AIR ENTRAINED CONCRETE), AFTER SLUMP ADJUSTMENT, TO VERIFY COMPLIANCE WITH SPECIFIED REQUIREMENTS.
   - E. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION OF ADMIXTURES.
   - F. INTERIOR SLAB FINISHING AND CURING
     - i. FINISH: MACHINE TROWEL FINISH FLOOR SLAB UNLESS NOTED OTHERWISE.
     - ii. CURING: ASTM C309 TYPE 1D (NON UV) CURE. REFER TO SPEC BOOK
   - G. FLOOR SLAB-ON-GRADE SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117-14 (Ff = FLOOR FLATNESS, Fl = FLOOR LEVELNESS):
     - i. SPECIFIED OVERALL VALUE Ff = 25, Fl = 20
     - ii. MINIMUM LOCAL VALUE Ff = 17, Fl = 15
6. SUBMITTALS:
   - A. CONSTRUCTION JOINT LAYOUT
   - B. CONCRETE MIX DESIGNS: CONCRETE MIX DESIGNS INCLUDING PRODUCT DATA FOR ALL CONSTITUENTS AND ADMIXTURES SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301-16 FIELD TEST DATA OR TRIAL MIXTURES. SUBMITTAL DATA MUST INCLUDE FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING TRIAL MIXTURES.
   - C. PRODUCT DATA FOR CURING MATERIALS
7. QUALITY ASSURANCE
   - A. CONCRETE WORK AND TESTING, AS PERFORMED BY "QUALIFIED FIELD TESTING TECHNICIANS" AND "QUALIFIED LABORATORY TECHNICIANS", SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-16, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS ABOVE. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301-16 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.

CONCRETE REINFORCING

1. MATERIALS
   - A. DEFORMED BARS: ASTM A615, OR ASTM A706, GRADE 60.
     - i. ASTM A706 DEFORMED BARS ARE REQUIRED FOR ALL WELDED REINFORCING BARS.
   - B. WELDED WIRE REINFORCEMENT: ASTM A1064, FLAT SHEETS ONLY.
2. REINFORCING DEVELOPMENT AND LAP SPLICES (UNLESS OTHERWISE NOTED)
   - A. SEE REINFORCING BAR DEVELOPMENT TABLES FOR REQUIRED DEVELOPMENT AND LAP SPLICE LENGTHS.
   - B. WELDED WIRE REINFORCEMENT: LAP WELDED WIRE REINFORCEMENT MINIMUM 1 FULL SPACE PLUS 2".
3. DETAILING REQUIREMENTS
   - A. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (2) # 4x48" LONG BARS SPACED AT 1" APART PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL WALL STEEL EXCEEDS THIS MINIMUM REQUIREMENT.
   - B. SEE PLAN FOR INTERIOR SLAB ON GROUND REINFORCEMENT. LOCATE REINFORCEMENT 2" CLEAR BELOW TOP OF SLAB.
4. PERFORMANCE
   - A. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING AND SUPPORTING REINFORCEMENT.
   - B. REINFORCING BARS SHALL HAVE CLEAR COVER AS INDICATED ON THE DRAWINGS. WHERE NOT INDICATED, PROVIDE MINIMUM CLEAR COVER PER ACI-318.
   - C. REINFORCING BARS SHALL BE FREE OF DIRT AND FORM RELEASE AGENTS.
5. SUBMITTALS
   - A. SHOP DRAWINGS FOR REINFORCING STEEL (COMPLY WITH ACI SP-066):

STRUCTURAL STEEL

1. MATERIALS (UNLESS NOTED OTHERWISE):
   - A. L SHAPES: ASTM A572, GRADE 50, Fy = 50 KSI
   - B. PLATES AND BARS (THICKNESS ≤ 4 INCHES): ASTM A572, GRADE 50, Fy = 50 KSI
   - C. PLATES AND BARS (THICKNESS > 4 INCHES): ASTM A36, Fy = 36 KSI
   - D. HSS SHAPES: ASTM A500, GRADE C, Fy = 50 KSI
   - E. BOLTS: ASTM F3125, GRADE A325-N, 3/4" DIAMETER (UNLESS NOTED OTHERWISE)
   - F. ANCHOR RODS (TYPICAL): ASTM F1554, GRADE 36
   - G. WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.
   - H. NON-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND EXTERIOR APPLICATIONS, FLUID TYPE.
     - i. LIMIT GYPSUM CONTENT TO 1.5% MAXIMUM AT EXTERIOR APPLICATIONS.
2. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION
3. FABRICATOR QUALIFICATIONS: STRUCTURAL STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, AND SHALL BE DESIGNATED AS AN AISC-CERTIFIED PLANT, CATEGORY STD.
4. SUBMITTALS
   - A. STRUCTURAL STEEL SHOP DRAWINGS
   - B. MISC. METAL SHOP DRAWINGS (STAIRS, RAILINGS AND LADDERS INCLUDING ATTACHMENT TO THE PRIMARY STRUCTURE), INCLUDING ANALYSIS DATA, SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
5. CONNECTIONS:
   - A. BOLTED CONNECTIONS ARE TO BE INSTALLED SNUG TIGHT UNLESS OTHERWISE NOTED.
   - B. FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWINGS.
   - C. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1:2010)
6. PAINT AND PROTECTION:
   - A. STEEL SURFACES UNLESS NOTED OTHERWISE:TO BE PAINTED : PREPARE SURFACES PER SSPC-SP3 "POWER TOOL CLEANING" AND PAINT WITH FABRICATOR'S STANDARD PRIME COAT.
     - i. DO NOT PAINT PORTIONS OF MEMBERS TO BE ENCASED IN CONCRETE, TO RECEIVE FIREPROOFING, OR TO RECEIVE COMPOSITE SHEAR CONNECTORS.
     - ii. IMMEDIATELY AFTER ERECTION, CLEAN EXPOSED AREAS WHERE PRIMER IS DAMAGED OR MISSING, PREPARE SURFACES BY SSPC-SP2 OR SSPC-SP3, AND PAINT WITH MATCHING SHOP PRIME COAT.
   - B. MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURE, LOOSE LINTELS, AND RELIEVING ANGLES:
     - i. HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION. COATING WEIGHT PER PARAGRAPH 5.1 OF ASTM A123 AND A153. FABRICATE ASSEMBLIES PER ASTM A143, A384, AND A385. AFTER ERECTION, REPAIR DAMAGED AREAS AND WELDS MADE AFTER GALVANIZING IN ACCORDANCE WITH ASTM A780 WITH ORGANIC ZINC RICH PAINT COMPLYING WITH DOD-P-21035 OR MIL-P-26915, MULTIPLE COATS TO DRY FILM THICKNESS OF 4 MILS. FILL EXPOSED VENT AND DRAIN HOLES, NOT INDICATED AS WEEP HOLES, BY PLUGGING WITH ZINC SOLDER AND FILING OFF SMOOTH.

       OR
     - ii. PREPARE SURFACES PER SSPC-SP6 "COMMERCIAL BLAST CLEANING". PAINT WITH ZINC RICH URETHANE PRIMER WITH NOT LESS THAN 80% ZINC IN DRIED FILM (TNEMEC SERIES 94-H20) WITH A DRY FILM THICKNESS OF 2.5 TO 3.5 MILS. FINISH PAINT WITH 2 COATS OF ALIPHATIC ACRYLIC POLYURETHANE (TNEMEC SERIES 1095). COORDINATE COLOR SELECTION WITH ARCHITECT. SUBSTITUTES MAY BE CONSIDERED. SUBMIT MANUFACTURER'S DATA PRIOR TO SURFACE PREPARATION.
   - C. MEMBERS ENCASED IN CONCRETE: PROVIDE 3" MINIMUM CONCRETE COVER FOR ALL STEEL BELOW GRADE.

POST INSTALLED ANCHORS

1. INSTALLATION: INSTALL ANCHORS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
2. CONNECTIONS TO EXISTING REINFORCED CONCRETE OR MASONRY: PRIOR TO DRILLING, VERIFY LOCATIONS OF EXISTING REINFORCING BARS USING A REBAR DETECTOR. NOTIFY ENGINEER PRIOR TO INSTALLATION IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING BARS. DO NOT DRILL THROUGH REINFORCING BARS.
3. TESTING AND INSPECTION: REFER TO EVALUATION REPORTS FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.
4. SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH SPECIFIED ACCEPTANCE CRITERIA MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
5. ADHESIVE ANCHORS:
   - A. ANCHOR RODS: HILTI "HAS-V-36" ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE. SIZE AND EMBEDMENT AS INDICATED ON DRAWINGS.
   - B. ADHESIVE IN CONCRETE: HILTI "HIT-RE 500 V3" EPOXY (EVALUATION REPORT: ICC-ES ESR-3814)HILTI "HIT-RE 100" EPOXY (EVALUATION REPORT: ICC-ES ESR-3829). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC308 AND ACI 355.4 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
   - C. ADHESIVE IN GROUT FILLED CONCRETE MASONRY: HILTI "HIT-HY 270" ADHESIVE ANCHOR SYSTEM (EVALUATION REPORT: ICC-ES ESR-4143). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC58 FOR USE IN GROUT FILLED CONCRETE MASONRY WALLS MAY BE CONSIDERED.
   - D. VERIFY THAT THE SHELF LIFE OF THE ADHESIVE HAS NOT BEEN EXCEEDED ON THE DATE OF INSTALLATION.
6. EXPANSION ANCHORS:
   - A. ANCHORAGE TO CONCRETE: HILTI "KWIK BOLT TZ2 CARBON STEEL" (EVALUATION REPORT: ICC-ES ESR-4266) HILTI "KWIK BOLT 1 CARBON STEEL" (EVALUATION REPORT: IAPMO-ER-678). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC193 AND ACI 355.2 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
   - B. ANCHORAGE TO GROUT FILLED CONCRETE MASONRY: HILTI "KWIK BOLT TZ2 CARBON STEEL" (EVALUATION REPORT: ICC-ES ESR-4561). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC01 (INCLUDING SEISMIC TESTS) FOR EXPANSION ANCHORS IN MASONRY ELEMENTS MAY BE CONSIDERED.
7. SCREW ANCHORS
   - A. ANCHORAGE TO CONCRETE: HILTI "KH-EZ" (EVALUATION REPORT: ICC-ES ESR-3027). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC193 AND ACI 355.2 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
   - B. ANCHORAGE TO GROUT FILLED CONCRETE MASONRY: HILTI "KH-EZ" (EVALUATION REPORT: ICC-ES ESR-3056). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC106 (INCLUDING SEISMIC TESTS) FOR SCREW ANCHORS IN MASONRY ELEMENTS MAY BE CONSIDERED.

POWER-ACTUATED FASTENERS (PAF)

1. INSTALLATION: INSTALL FASTENERS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTRUCTIONS (MPII)
2. SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH ICC-ES ACCEPTANCE CRITERIA AC 70 MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING GREATER OR EQUAL CAPACITY, AND COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
3. FASTENING WOOD FRAMING AND COLD FORMED METAL FRAMING TRACKS AND CHANNELS:
   - A. FASTENING TO STRUCTURAL STEEL:
     - i. 0.157" DIAMETER NAIL (TYP UNO): HILTI "X-U" NAIL (ICC-ESR-2269) OR HILTI "X-P" NAIL (ICC-ESR-2269). DETERMINE FASTENER LENGTH IN ACCORDANCE WITH ICC REPORT TO PROVIDE MINIMUM REQUIRED PENETRATION THROUGH STEEL.
   - B. FASTENING TO CONCRETE (CONCRETE MUST ACHIEVE SPECIFIED DESIGN STRENGTH PRIOR TO FASTENER INSTALLATION):
     - i. 0.157" DIAMETER NAIL: HILTI "X-U" NAIL (ICC-ESR-2269). DETERMINE FASTENER LENGTH IN ACCORDANCE WITH ICC REPORT TO PROVIDE A MINIMUM 1 1/4" EMBEDMENT.
4. FASTENING METAL DECK TO STRUCTURAL STEEL: SEE "METAL DECK" GENERAL STRUCTURAL NOTES.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS ARE REQUIRED BY SECTION 1704 OF THE REFERENCED BUILDING CODE. THE INTENT OF SPECIAL INSPECTIONS IS TO VERIFY THE COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND/OR PLACEMENT OF COMPONENTS WITH THE COMPLETED SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. IT IS THE RESPONSIBILITY OF ALL PARTIES INVOLVED TO BECOME FAMILIAR WITH THE SPECIAL INSPECTION REQUIREMENTS SET FORTH IN CHAPTER 17 OF THE REFERENCED BUILDING CODE. SPECIAL INSPECTIONS SHALL BE PROVIDED BY THE OWNER OR THE OWNER'S AGENT AND SHALL NOT BE CONSIDERED IN THE SCOPE OF WORK OF THE CONTRACTOR.
   - A. THE FOLLOWING SCHEDULE OF SPECIAL INSPECTIONS FOR STRUCTURAL WORK HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 106.1 AND 1704 OF THE REFERENCED BUILDING CODE. SEE OTHERS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WORK. THE SPECIAL INSPECTOR(S) SHALL COORDINATE WITH THE OWNER, CONTRACTORS, AND DESIGN PROFESSIONALS AND SCHEDULE ALL INSPECTIONS ACCORDINGLY.

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REFERENCE
(0)	COLUMN LINE DESIGNATION	
◇0	FACE OF BUILDING	
Kn	KEYNOTE MARK	
	ELEVATION INDICATION	

ABBREVIATIONS

NAME	DESCRIPTION
AFF =	ABOVE FINISHED FLOOR ELEVATION
ARCH =	ARCHITECT
B/ =	BOTTOM OF
BLDG =	BUILDING
BOD =	BOTTOM OF DECK
BOT =	BOTTOM
BRG =	BEARING
CFS =	COLD-FORMED STEEL
CJ =	CONTRACTION JOINT
CJP =	COMPLETE JOINT PENETRATION
CL =	CENTER LINE
CLR =	CLEAR
CLSM =	CONTROLLED LOW STRENGTH MATERIAL
CMU =	CONCRETE MASONRY UNIT
COL =	COLUMN
CONC =	CONCRETE
CONT =	CONTINUOUS
DEG or ° =	DEGREE
DIA or ø =	DIAMETER
EA =	EACH
EF =	EACH FACE
EL =	ELEVATION
EMB =	EMBEDMENT
EOD =	EDGE OF DECK
EOS =	EDGE OF SLAB
EQ =	EQUAL
EXIST =	EXISTING
EXP =	EXPANSION
FDN =	FOUNDATION
FS =	FAR SIDE
FTG =	FOOTING
GA =	GAGE
GALV =	GALVANIZED
GT =	GIRDER TRUSS
HORIZ =	HORIZONTAL
JST BRG =	JOIST BEARING
Ld =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
Ld-CMU =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN GROUTED CMU
Ldc =	COMPRESSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
LDH =	LONG DIMENSION HORIZONTAL
Ldh =	HOOKED BAR TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
LDV =	LONG DIMENSION VERTICAL
LLH =	LONG LEG HORIZONTAL
LLV =	LONG LEG VERTICAL
Ls =	LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
Ls-CMU =	LAP SPLICE LENGTH OF REINFORCING BAR IN GROUTED CMU
Lsc =	COMPRESSION LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
LSL =	LAMINATED STRAND LUMBER
LVL =	LAMINATED VENEER LUMBER
MCJ =	MASONRY CONTROL JOINT
MFR =	MANUFACTURER
NS =	NEAR SIDE
oc =	ON CENTER
OPNG =	OPENING
OPP =	OPPOSITE
P/T =	POST-TENSION
PAF =	POWER-ACTUATED FASTENER
PE =	PRE-ENGINEERED
PEMB =	PRE-ENGINEERED METAL BUILDING
PJP =	PARTIAL JOINT PENETRATION
PL =	PLATE
PSL =	PARALLEL STRAND LUMBER
PT =	PRESSURE TREATED
RD =	ROOF DRAIN
REINF =	REINFORCING
RTU =	ROOF TOP UNIT
SDS =	SELF DRILLING SCREWS
SIM =	SIMILAR
SL =	STEP LEDGE
SOMD =	SLAB ON METAL DECK
SPA =	SPACE or SPACES
SRD =	SECONDARY ROOF DRAIN
STIFF =	STIFFENER
STL =	STEEL
STW =	STEP TOP OF WALL
T/ =	TOP OF
UNO =	UNLESS NOTED OTHERWISE
VB =	VERTICAL BRACING
VERT =	VERTICAL
VIF =	VERIFY IN FIELD
w/ =	WITH
WP =	WORK POINT

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CONSULTANT

CLIENT

PROJECT TITLE

Q39 (TI)
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER: 62910099

PROJECT MANAGER	DRAWN BY	CHECKED BY
DDA	GJB	

PROFESSIONAL SEAL

STATE OF MISSOURI
JOHN RAY ASHBAUGH
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PROFESSIONAL ENGINEER
11/17/2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME: GENERAL NOTES

SHEET NUMBER: S001

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SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.3 CONCRETE CONSTRUCTION

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
In-Plant Special Inspections (Precast Concrete)	**Fabrication and implementation procedures:** In addition to special inspections provided on site, provide special inspections indicated below on the premises of fabricator's shop. Verify that the fabricator maintains detailed fabrication and quality control procedures.			X	As Noted Below	Special inspections on the premises of the fabricator's shop are not required provided the fabricator is an ***Approved Fabricator*** in accordance with section 1704.2.5.1. Fabricator is required to submit documentation/certification that they are an ***Approved Fabricator***.
1. Reinforcing steel	**a. Mild Reinforcing Steel:** Inspect size, spacing, cover, positioning and grade of reinforcing steel: Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. Verify welded wire fabric is supported per construction documents. Reference ACI 318: 20, 25.2, 25.3, 26.6-1-26.6-3, and IBC 1908.4.		X		Testing Agency	
	b. Prestress Steel: Inspect size, spacing, cover, and position of prestressing tendons:			X	Testing Agency	
2. Welding of Reinforcing Steel	a. Verify weldability of reinforcing bars other than ASTM A706. Reference ACI 318: 26.6.4 and AWS D1.4			X	Testing Agency	
	b. Inspect single pass fillet welds, maximum 5/16"			X	Testing Agency AWS - Certified Welding Inspector	
	c. Inspect all other welds	X			Testing Agency AWS - Certified Welding Inspector	
3. Cast in Place Anchor Rods	Inspect size, position and embedment of cast in place bolts and anchor rods. Inspect concrete placement and consolidation around anchors. Reference ACI 318: 17.8.2		X		Testing Agency	
4. Post Installed Anchors (Anchors installed in Hardened Concrete)	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2.4	X			Testing Agency	Reference evaluation report (identified in project general notes) for additional inspection scope required by manufacturer.
	b. Mechanical anchors and adhesive anchors not defined in 4.a. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2		X		Testing Agency	
5. Mix Design	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.		X		Testing Agency	
6. Sampling and Testing of Concrete	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests as required by construction documents, and determine the temperature of concrete. Reference ASTM C 172, ASTM C31, ACI 318-19, 26.4.3, 26.4.4, and IBC 1904.1, 1904.2, 1908.2, 1908.3	X			Testing Agency	
7. Concrete and Shotcrete Placement	Inspect concrete and shotcrete placement for proper application techniques. Reference ACI 318: 26.5 and IBC 1908.6, 1908.7, and 1908.8. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	X			Testing Agency	
8. Curing and Protection	Inspect for maintenance of specified curing temperature and techniques. Inspect cold weather and hot weather protection procedures as applicable. Reference ACI 318: 26.5.3-26.5.5 and IBC 1908.9.		X		Testing Agency	
9. Prestressed (Post-tensioned) Concrete	**a. Application of Prestressing Forces:** Inspect placement, stressing, grouting and protection of post-tensioning tendons. Verify that tendons are correctly positioned, supported, tied and wrapped. Record tendon elongations. Reference ACI 318: 26.10.2			X	Testing Agency	
	b. Grouting of Bonded Prestressing Tendons in the Seismic-Force Resisting System: Reference ACI 318: 26.10.1			X	Testing Agency	
10. Precast Concrete Erection	Inspect erection of precast concrete including member configuration, connections, welding and grouting. Reference ACI 318: Ch 26.9			X	Testing Agency	
11. Verification of In-Situ Concrete Strength	Verify concrete strength prior to the removal of shores and forms from beams and structural slabs and prior to the stressing of tendons in post-tensioned concrete. Reference ACI 318: 26.10.2 & 26.11.11.2		X		Testing Agency	
12. Formwork Geometry	Inspect formwork for shape, location and dimensions of the concrete member being formed. Reference ACI 318: 26.11		X		Testing Agency	

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.2.1 STRUCTURAL STEEL

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Observe	Perform	N/A		
In-Plant Special Inspections	**Fabrication and implementation procedures:** In addition to special inspections provided on site, provide special inspections indicated below on the premises of fabricator's shop. Verify that the fabricator maintains detailed fabrication and quality control procedures.	X		X	As Noted Below	Special inspections on the premises of the fabricators shop are not required provided the fabricator is an ***Approved Fabricator*** in accordance with section 1704.2. Fabricator is required to submit documentation/certification that they are an ***Approved Fabricator***.
1. Fabricator and erector documents	Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents		X		Schaefer Submittal Review	
2. Material verification of structural steel	Verify material in shop and field inspection		X		Testing Agency	
3. Embedments	Verify diameter, grade, type, length, embedment. See Table 1705.3 for anchors		X		Testing Agency	
4. Verify compliance with construction documents	Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents		X		Testing Agency	
5.4-1. Visual Welding Inspection - Inspection Tasks Before Welding:	1. Welder qualifications records and continuity records.		X		Testing Agency AWS - Certified Welding Inspector	
	2. Welding procedure specifications (WPS) available		X			
	3. Manufacturer certifications for welding consumables available.		X			
	4. Material Identification (type/grade)	X				
	5. Welder identification system (The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.)	X				
	6. Fit up of Groove Welds (Including Joint Geometry): Inspection shall include Joint preparation, Dimensions (alignment, root opening, roof face, and bevel), Cleanliness (condition of steel surfaces), Tacking (tack weld quality and location), Backing type and fit (if applicable)	X				
	7. Fit up of CJP Groove Welds of HSS T-, K-, Y-, and K-joints (Including Joint Geometry): Inspection shall include Joint preparation, Dimensions (alignment, root opening, roof face, and bevel), Cleanliness (condition of steel surfaces), Tacking (tack weld quality and location), Backing type and fit (if applicable)		X			
	8. Configuration and finish of access holes	X				
	9. Fit-up of Fillet Welds: Inspection shall include: Dimensions (alignment, root opening, roof face, and bevel), Cleanliness (condition of steel surfaces), Tacking (tack weld quality and location)	X				
	10. Check welding equipment.	X				
5.4-2. Visual Welding Inspection - Inspection Tasks During Welding:	1. Control and Handling of Welding Consumables: Packaging and Exposure control)	X			Testing Agency AWS - Certified Welding Inspector	
	2. No welding over cracked tack welds.	X				
	3. Environmental Conditions: Wind speed within limits, and Precipitation and temperature.	X				
	4. WPS Followed: Observe Settings on welding equipment, Travel speed, Selected welding materials, Shielding gas type/flow rate, Preheat applied, Interpass temperature maintained (min and max), and Proper position (F,V,F,OH)	X				
	5. Welding Techniques: Interpass and final cleaning, Each pass within profile limitations, Each pass meets quality requirements.	X				
	6. Placement and installation of steel headed stud anchors.		X			
5.4-3. Visual Welding Inspection - Inspection Tasks After Welding	1. Welds Cleaned:	X			Testing Agency AWS - Certified Welding Inspector	
	2. Size, Length, and Location of Welds:		X			
	3. Welds meet visual acceptance criteria: Crack prohibition, Weld/base-metal fusion, Crater cross section, Weld profiles, Weld size, Undercut, Porosity.		X			
	4. Arc strikes:		X			
	5. k-area		X			
	6. Weld access holes in rolled heavy shapes and built-up heavy shapes					
	7. Backing Removed and weld tabs removal (if required):		X			
	8. Repair Activities:		X			
	Document acceptance or rejection of welded joint or member		X			
	No prohibited welds have been added without the approval of the EOR	X				
5.5 Non-destructive Testing of Welds	**b. CJP Groove Welds:** Ultrasonic testing shall be performed on 100 percent of CJP groove welds subject to transversely applied tension loading in butt, T- and corner joints, in materials 5/16 in thick or greater. Ultrasonic testing in materials less than 5/16 in thick is not required. Reduction of Rate of Ultrasonic Testing is permitted if the conditions of AISC 360-16 Appendix N.5.a are met.		X		Testing Agency AWS - Certified Welding Inspector	Perform NDT for both in field and shop welds.
	c. Weld Joints Subjected to Fatigue: Welded joints requiring weld soundness to be established by Radiographic or Ultrasonic Inspections. Reduction rate is prohibited.			X		Perform NDT for both in field and shop welds.
5.6-1. Inspection of Bolting: Inspection Tasks Prior to Bolting	1. Manufacturer's certifications available for fastener materials.		X		Testing Agency	
	2. Fasteners marked in accordance with ASTM requirements	X			Testing Agency	
	3. Proper fasteners selected for the joint detail (grade, type, and bolt length if threads are excluded from shear plane).	X			Testing Agency	
	4. Proper bolting procedure selected for joint detail.	X			Testing Agency	
	5. Connecting elements: Verify elements are fabricated properly, including the appropriate faying surface condition and hole preparation, if specified, meets the applicable requirements	X			Testing Agency	
	6. Pre-installation verification testing conducted for fastener assemblies and methods used	X			Testing Agency	
	7. Proper storage provided for bolts, nuts, washers, and other fastener components	X			Testing Agency	
5.6-2. Inspection of Bolting: Inspection Tasks During Bolting	1. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are properly positioned	X			Testing Agency	
	2. Joint brought to the snug tight condition prior to the pretensioning operation	X			Testing Agency	
	3. Fastener component not turned by the wrench prevented from rotating	X			Testing Agency	
	4. Bolts are pretensioned in accordance with the RCSC specification, progressing systematically from most rigid point toward free edges	X			Testing Agency	
5.6-3. Inspection of Bolting: Inspection Tasks After Bolting	1. Document accepted and rejected connections:		X		Testing Agency	

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.6 SOILS

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
1. Bearing Materials	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X		**Testing Agency** Under supervision of Licensed Geotechnical Engineer	
2. Excavations	Verify excavations are extended to proper depth and have reached proper material		X		**Testing Agency** Under supervision of Licensed Geotechnical Engineer	
3. Fill Classification	Perform classification and testing of compacted fill materials		X		**Testing Agency** Under supervision of Licensed Geotechnical Engineer	
4. Placement and Fill Compaction	Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill	X			**Testing Agency** Under supervision of Licensed Geotechnical Engineer	
5. Subgrade	Prior to placement of compacted fill, inspect subgrade and verify that the site has been prepared properly		X		**Testing Agency** Under supervision of Licensed Geotechnical Engineer	

CONCRETE MIXTURE REQUIREMENTS

CONCRETE CLASS	DESCRIPTION	EXPOSURE CLASS F	S	W	C	MINIMUM f'c AT 28 DAYS (PSI)	MAXIMUM w/c RATIO	AIR CONTENT	MINIMUM CEMENTITIOUS MATERIAL (LB/CY)	REMARKS
C1	INTERIOR SLABS-ON-GROUND	F0	S0	W0	C0	4000	--	3% MAX	540	

CONCRETE MIXTURE NOTES:
A. PROVIDE MIX DESIGNS IN ACCORDANCE WITH ACI 301-16 FOR SPECIFIED EXPOSURE CLASS AND AGGREGATE.
B. NOMINAL MAX AGGREGATE SIZE = 3/4" UNLESS OTHERWISE NOTED
C. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED

SCHEDULE OF TENSION DEVELOPMENT AND LAP SPLICE LENGTHS

INTERIOR SLABS-ON-GROUND (f'c = 4000PSI)

BAR SIZE	Ld		Ls		Ldh
	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	
	(in)	(in)	(in)	(in)	(in)
#3	12	12	16	16	8
#4	12	15	16	20	10
#5	15	19	19	25	12
#6	18	23	23	29	15
#7	25	33	33	43	17
#8	29	37	37	49	19
#9	36	46	46	60	22
#10	44	57	57	74	25
#11	53	68	68	89	27
#14	72	94	94	122	33

LAP AND DEVELOPMENT TABLE CRITERIA:
A. GRADE 60 UNCOATED REINFORCING STEEL
  i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2
B. NORMAL WEIGHT CONCRETE
  i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33
C. 2" MIN CLEAR COVER
D. 4" MIN CLEAR SPACING BETWEEN BARS

FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED:
#6 AND SMALLER: Ld = 57 BAR DIAMETERS; Ls = 74 BAR DIAMETERS
#7 AND LARGER: Ld = 72 BAR DIAMETERS; Ls = 93 BAR DIAMETERS
FOR TOP BARS MULTIPLY BY 1.3
MINIMUM Ld AND Ls = 12"

LAP AND DEVELOPMENT TABLE NOTES & DEFINITIONS:
A. TOP BARS = HORIZ BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS
B. db = BAR DIAMETER
C. s = CENTER-TO-CENTER BAR SPACING
D. Ath = TOTAL AREA OF TIES OR STIRRUPS CONFINING HOOKED BARS
E. Ahs = TOTAL AREA OF HOOKED BARS BEING DEVELOPED
F. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, Ls FOR THE LARGER BAR SHALL BE USED
G. ALL TENSION SPLICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE
H. Ldh VALUES FOR #11 BARS AND SMALLER MAY BE REDUCED AS FOLLOWS (PER ACI 318-14)
  i. MULTIPLY BY 0.70 FOR (1) OR (2)
    (1) SIDE COVER ≥ 2 1/2"
    (2) 90° HOOKS WITH COVER ON BAR EXTENSION BEYOND HOOK ≥ 2"
  ii. MULTIPLY BY 0.80 FOR (3), (4), or (5)
    (3) 90° HOOKS ENCLOSED ALONG Ldh WITHIN TIES OR STIRRUPS AT s ≤ 3db
    (4) 90° HOOKS ENCLOSED ALONG THE BAR EXTENSION WITHIN TIES OR STIRRUPS AT s ≤ 3db
    (5) 180° HOOKS ENCLOSED ALONG Ldh WITHIN TIES OR STIRRUPS AT s ≤ 3db
  iii. Ldh SHALL NOT BE LESS THAN THE LARGER OF 8db OR 6" WITH REDUCTIONS APPLIED

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CONSULTANT

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LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62910099

PROJECT MANAGER	DRAWN BY	CHECKED BY
DDA	GJB	

PROFESSIONAL SEAL

STATE OF MISSOURI
JOHN DAY
NUMBER
PE-2007031054
DATE

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME
SPECIAL INSPECTIONS & TABLES

SHEET NUMBER
S002

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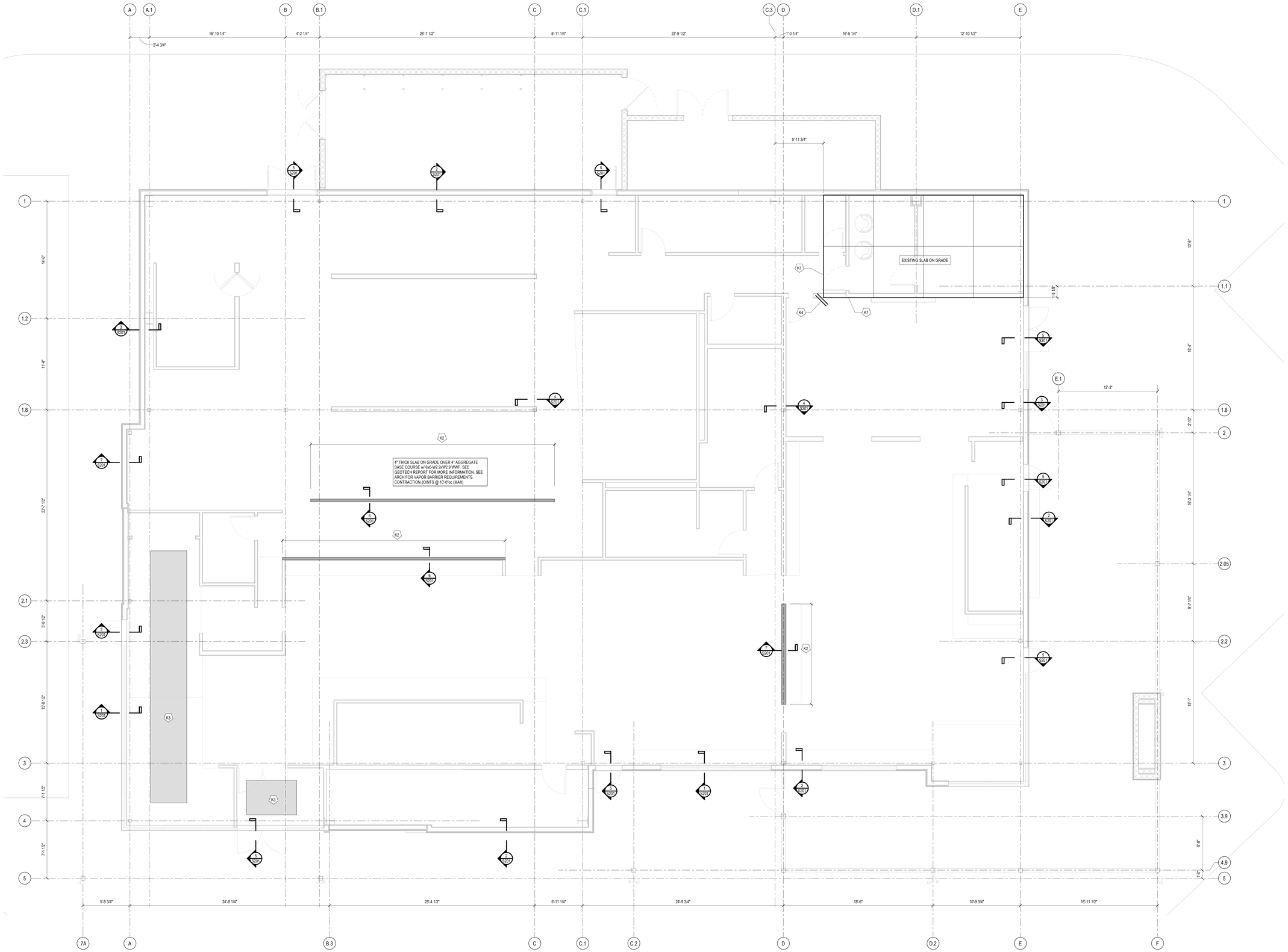

FOUNDATION PLAN
1/4" = 1'-0"

NORTH

FOUNDATION KEYNOTES	
NO.	DESCRIPTION
K1	SLAB ON GRADE CONSTRUCTION JOINT, SEE TYPICAL DETAIL ON S201
K2	INTERIOR "PONY" WALL
K3	RECESSED SLAB ON GRADE. SEE TYPICAL DETAL ON S201. SEE ARCH FOR LOCATION AND DIMENSIONS.
K4	(2) #4x48" LONG DIAGONAL BARS AT RE-ENTRANT CORNER.

FOUNDATION PLAN NOTES:

1. REFERENCE PLAN ELEVATION 0'-0" = 1040.00' ± (FINISH FLOOR ELEVATION AT MEAN SEA LEVEL). CONFIRM WITH CIVIL ENGINEER PRIOR TO CONSTRUCTION.
2. DOORS ARE SHOWN IN APPROXIMATE LOCATIONS, SEE ARCH DWGS FOR EXACT LOCATIONS.
3. SEE SHEET S001 FOR GENERAL NOTES, ABBREVIATIONS, & LEGEND (SYMBOLS).
4. SEE SHEET 201 FOR TYPICAL SLAB ON GRADE DETAILS & FOUNDATION DETAILS. SEE ARCHITECTURAL DRAWINGS FOR ALL INTERIOR WALL INFORMATION

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DDA	GJB	

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ISSUES AND REVISIONS

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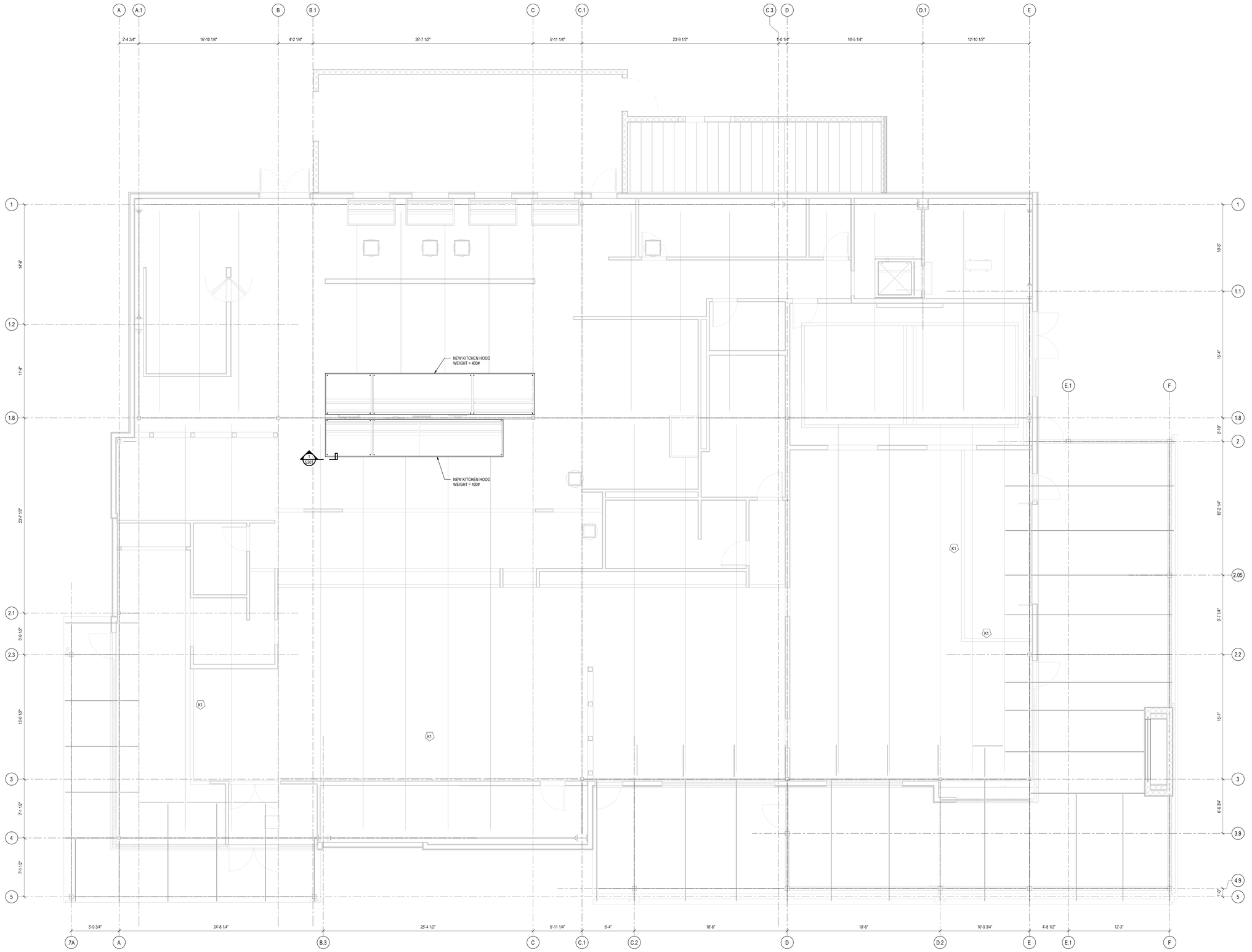
SHEET NAME

FOUNDATION PLAN

SHEET NUMBER

S101



FRAMING PLAN

1/4" = 1'-0"

NORTH

FRAMING PLAN NOTES:

1. SEE SHEET S001 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
2. VERIFY ALL EXISTING BUILDING DIMENSIONS.
3. NEW KITCHEN HOOD LOCATIONS, DIMENSIONS & WEIGHTS ARE BASED ON DRAWINGS DATED 11/17/2025 BY LANKFORD FENDLER + ASSOCIATES CONSULTING. VERIFY FINAL LOCATIONS, DIMENSIONS, & WEIGHTS w/ SUPPLIER PRIOR TO INSTALLING UNITS. NOTIFY SCHAEFER IF ANY DISCREPANCIES.
4. CONTACT SCHAEFER IF EXISTING FIELD CONDITIONS DIFFER FROM STRUCTURAL DRAWINGS.

ROOF FRAMING KEYNOTES

NO.	DESCRIPTION
K1	SUSPENDED SOFFIT FRAMING, SEE ARCH DRAWINGS.

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Schaefer Project Number: 25-0904

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CONSULTANT

CLIENT

PROJECT TITLE

Q39 (TI)
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62910099

PROJECT MANAGER	DRAWN BY	CHECKED BY
DDA	GJB	

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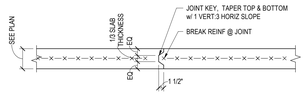
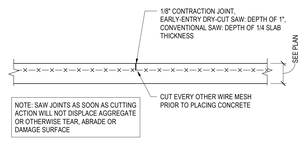
ROOF FRAMING PLAN

SHEET NUMBER

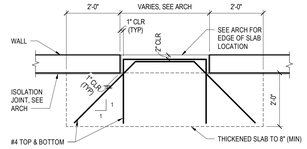
S102



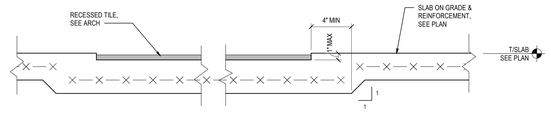
SLAB ON GRADE TYPICAL CONSTRUCTION JOINT
NTS



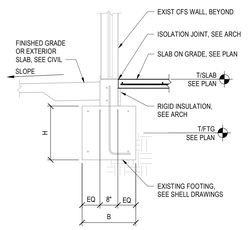
SLAB ON GRADE TYPICAL CONTRACTION JOINT
NTS



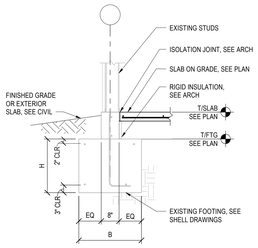
TYPICAL SLAB ON GRADE AT DOOR THRESHOLD
NTS



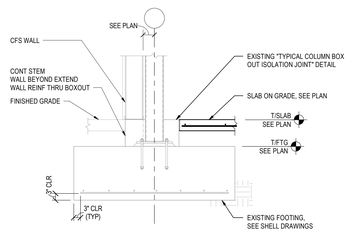
TYPICAL RECESSED SLAB ON GRADE
1 1/2" = 1'-0"



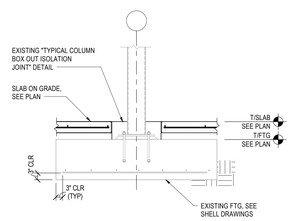
SECTION 1 / S201
1/2" = 1'-0"



SECTION 2 / S201
1/2" = 1'-0"



SECTION 3 / S201
1/2" = 1'-0"



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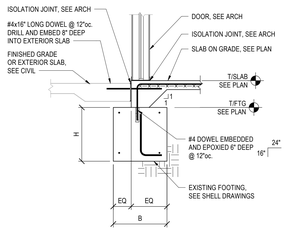
1/2" = 1'-0"



SECTION 5 / S201
1/2" = 1'-0"

SECTION 6 / S201
1 1/2" = 1'-0"

SECTION 7 / S201
1 1/2" = 1'-0"

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CONSULTANT

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PROJECT TITLE

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ISSUES AND REVISIONS

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TYPICAL FOUNDATION DETAILS & SECTIONS

SHEET NUMBER

S201

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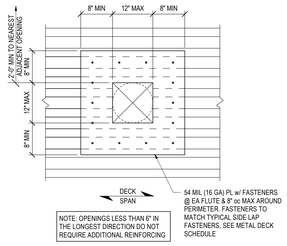
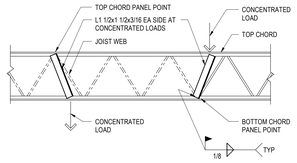
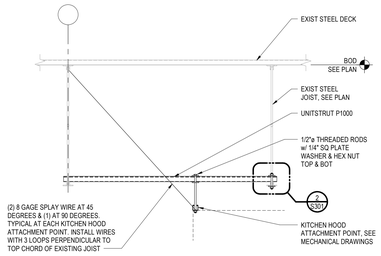


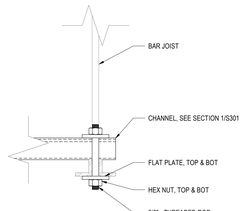
TYPICAL SMALL ROOF DECK OPENING DETAIL
FOR OPENINGS ≤ 12"
NTS



TYPICAL SUPPORT OF CONCENTRATED
LOADS NOT AT JOIST PANEL POINTS
NTS



SECTION 1/S301
3/4" = 1'-0"



SECTION 2/S301
3" = 1'-0"

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CONSULTANT

CLIENT

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SHEET NAME

TYPICAL ROOF
FRAMING DETAILS

SHEET NUMBER

S301

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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.

C. The Contractor shall arrange for and provide, at his own expense, temporary heating and cooling as necessary for prosecution of the work. Permanent air handing, heating and cooling equipment shall not be used for temporary heating and cooling unless pre-approved by the owner or his representative.

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 Contractor 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).

3. Refer to Architectural Documents for additional record drawing submission procedures.

14.0 SITE WORK AND CONDITIONS:

A. The Contractor shall do all necessary excavating and backfilling for the installation of associated work. After the piping or conduit has been installed, tested and approved, the trenches shall be backfilled to grade with compacted sand, gravel or AB-3 material or other material as required by local authorities. Compact to 85% density for unpaved areas, 95% density for paved area or under slabs.

B. All water bearing piping shall be 48" minimum below grade, all gas piping shall be 24" minimum below grade, unless instructed otherwise.

C. Roads, alleys, street, sidewalks and utilities damaged during this work shall be restored to the satisfaction of Owner's Representative and authorities having jurisdiction.

D. Where subsidence is measurable or observable at excavation during general project warranty period, remove surface, add backfill material, compact, and replace surface treatment. Restore appearance of surface to match adjacent work.

15.0 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.

16.0 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.

17.0 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 below grade, in exterior walls or thru slabs on grade shall have 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.

18.0 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. If no sequence of operation is included, submit a proposed sequence to the Engineer for approval.

F. 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.

19.0 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

230 100

HEATING, VENTILATION AND AIR CONDITIONING

1.0 SCOPE:

A. The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the heating, ventilating, and air conditioning systems and other items herein listed and as described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect/Engineer.

2.0 SHEET METAL:

A. Ductwork shall be new prime grade galvanized steel sheets constructed per ASHRAE and SMACNA Standards. Duct system(s) installation shall be in accordance with SMACNA Duct Construction Standards Manual and industry standards. Provide round or rectangular duct as indicated.

1. Provide Duct System(s), including all necessary components such as dampers, turning vanes, offsets and takeoffs, etc. required by the project (whether shown or not), which shall be fabricated and installed for maximum efficiency and to minimize pressure drops and objectionable sound and to provide for complete system balancing.
2. All duct sizes shown are free area size and do not include liner.

B. Fabricate for the pressure and SMACNA seal class required by the application.

Leakage class minimum requirements are:

1. Up thru 2" WG pressure – rectangular – Class 24, round - Class 12.

Seal class minimum requirements are:

1. Up thru 2" WG pressure - class A for all duct joints.

C. Duct Sealants

1. Duct sealant shall have 25/50 flame and smoke rating with a static pressure class of 10" WG, mold and mildew resistant. Sealant shall be installed per manufacturer instructions.
2. Sealant for concealed ductwork shall be an externally applied solvent or water based joint and seam sealant with or without tape.
3. Ductwork exposed to view shall be sealed with clear silicone or have gasketed joints. Exposed rectangular flanged duct joints shall have gasketed joints. Exposed round ducts shall have joints with EPDM gaskets in groove, O-ring seals or flanged with neoprene gaskets. Where sealant beads are used, they shall be minimized or concealed, smooth and uniform with any excess sealant trimmed flush with duct and removed.
4. Spiral lock seams and gasketed duct joints are exempted from other sealant requirements.

D. Duct Finishes

1. Concealed ductwork shall be manufacturer's standard mill finished.
2. Ductwork that is indicated or required to be field painted shall have paint grip finish.
3. Ductwork that will remain exposed to view shall be furnished without marks, markers, shipping, identification or other tags located on exterior duct surfaces, no exceptions. Any ductwork so installed shall be removed at contractor expense. Protect exposed ductwork from dents, scratches or other damage during construction. Wipe down and thoroughly clean all exposed duct, fittings and accessories.

E. Round or oval duct shall be factory built of galvanized steel, suitable for pressure class required or indicated. Snap lock duct and fittings shall be used for low pressure/velocity applications only. Fittings shall have 1.5 times diameter centerline radius. Spiral duct may be used for any pressure/velocity class. Spiral duct shall be Semco or acceptable equal by McGill Airflow or Lindab.

1. Single wall, 2.0" WG minimum.
2. Round or oval duct joints shall be Ductmate quick sleeve, slip joint, welded or flanged.

F. Special Duct Systems:

1. Kitchen Hood Exhaust Duct:
   a. Grease duct construction and installation shall be in accordance with NFPA 96 and all local codes.
   b. Duct shall be constructed of welded liquid tight 16 gage black steel. Slope duct at 2% slope (or 1% where horizontal length exceeds 75 feet) down toward the hood or grease reservoir. Install duct without dips or traps.
   c. Provide access doors at changes in direction and 20' maximum intervals for cleaning as required by code.
   d. Unless hood ducts penetrate a non-rated roof ceiling assembly only, install kitchen exhaust ducts in sealed, continuous, fire rated enclosures, with clearances not less than 18" for combustible construction and 6" for non-combustible construction.
   e. Where shown or at contractor option, field applied equivalent fire rated jacketed wrap in lieu of rated enclosure may be installed per manufacturer's listing. Duct wrap fire rating shall be equal to or greater than the rating of the assembly penetrated. Wrap shall be 3-M, Morgan Firemaster, Unifrax FyreWrap or equal.
   f. Roof or wall terminations shall be arranged to minimized grease impingement on adjacent surfaces. Grease ducts shall terminate away from adjacent property lines and building structures and above roofs with distances in accordance with code.
   g. Perform both leakage and light duct testing prior to use or concealment per SMACNA standards and in accordance with code. Contractor shall certify that all joints are liquid tight.
2. Dishwasher Duct:
   a. Ducts shall be constructed of welded 304 stainless steel. Duct shall be liquid tight and where applicable shall be sloped to the dirty end of the dishwasher without dips or traps.
   b. Roof or wall terminations shall be arranged to minimized moisture impingement on adjacent surfaces.
   c. Perform leakage testing prior to use or concealment per SMACNA standards and in accordance with code. Contractor shall certify that all joints are liquid tight.

G. Flexible air duct and accessories shall be UL-181 class 1 compliant, 25/50 smoke and flame plenum rated. Maximum length shall be 5' - 0". Flexible duct shall have ends banded and insulation ends sealed. Attach with worm gear driven stainless steel bands or nylon duct zip ties. Stainless steel bands shall be used at all inaccessible locations, zip ties are NOT permitted where inaccessible. Provide Thermaflex or equivalent flex tie supports. Supply air and return air flexible ducts and boots shall be insulated. Exhaust flexible duct shall not be insulated.

1. Insulated – Thermaflex G-KM, CPE core on helix wire with R4.2 insulation and polyethylene vapor barrier jacket, with maximum velocity of 5,000 FPM, pressure of 6" WG positive and 1" negative.
2. Uninsulated – Thermaflex MC foil laminate and helix wire, with maximum velocity of 5,000 FPM, pressure of 10" WG positive and 1" negative.
3. Flexible ducts shall be Thermaflex or acceptable equal by ATCO or Flexmaster.

3.0 DUCTWORK ACCESSORIES:

A. Provide single thickness turning vanes in all supply duct turns.

B. Provide duct access doors for all internal mounted equipment. Access doors shall be insulated double wall, constructed airtight in accordance with SMACNA standards for the appropriate pressure class where they are installed. They shall have butt or piano hinged with cam latches. Minimum size shall be 12"x12" or 12"x duct depth unless noted otherwise.

C. Branch take-offs to air terminal units shall be high efficiency type.

D. All take-offs to diffusers and grilles shall be made with high efficiency take-offs, 45º take-offs or conical fittings unless specifically indicated otherwise on drawings. Provide locking quadrant volume damper at take-offs in accessible ceilings, unless shown otherwise. Extractors and scoops are not permitted

E. Duct splits, elbows and reducing fittings shall be fabricated per SMACNA standards. "Ductmate" or acceptable equal flanged and gasketed joint systems are approved.

F. Provide dampers where shown and required. Dampers shall be by Greenheck or acceptable equal by Ruskin, American Warming & Ventilating, Air Balance, Inc., Carnes, Krueger, Nailor, United Enertech.

1. Balance and control dampers shall be rated in accordance with AMCA 500D. They shall be opposed blade except air mixing dampers shall be parallel blade.

   a. Manual dampers shall have standoff and locking quadrant.
2. Provide damper operator standoff bracket where dampers are installed in ductwork with external insulation.
3. Where balancing dampers are located above inaccessible ceilings, provide cable operator assembly with either ceiling or wall plate as indicated or required. Cable length shall be as required for application.
4. Damper Schedule:

   a. Manual Damper Rectangular:
   Greenheck MBD-15, Galv. Steel formed blade, manual locking quadrant actuator, 4" WG, 2000 fpm.
   b. Manual Damper Round:
   Greenheck MBDR-50, Galv. Steel formed blade, manual locking quadrant actuator, 1" WG, 2000 fpm.

4.0 DUCT SUPPORTS AND ROUTING

A. Hangers and Supports.

1. Ductwork shall be supported in accordance with all SMACNA standards including support methods, sizes and spacing.
2. All hanger and support parts shall be galvanized steel for non-corrosive environments or stainless steel for corrosive or damp environments.
3. Provide sheetmetal straps, adjustable hangers, clamps, channels, rods, flexible connectors, supplementary steel, etc. as required for proper support of all ductwork. Trapeze may be used for support of single or multiple ducts. Provide accompanying attachments including bolts and nuts, sheetmetal screws or rivets compatible with duct materials.
4. Upper attachments shall be manufactured items specific to the applicable structure. Include concrete inserts, wedge type drilled in inserts, steel beam and joist clamps, plates, rods, clips, straps and brackets as required by the application.
5. Cable systems may be used at contractor option. They shall be a complete assembly including cables, adjustable locking fasteners or clips and all upper and lower attachments by Gripple or acceptable equal.

B. Routing.

1. Ductwork shall be routed as shown on drawings, parallel to building lines unless otherwise shown, coordinated with building structure and other trades. Adjust ductwork routing and elevations with necessary offsets to accommodate beams and other obstructions.

5.0 GRILLES, REGISTERS, INLETS AND OUTLETS:

A. All supply, return and exhaust grilles, registers and diffusers shall be as scheduled on the drawings. Commercial quality – E.H. Price or acceptable equal by Titus, Carnes, Krueger or Nailor.

1. All air distribution devices shall be selected for throw and low noise (30 NC or less) performance characteristics unless otherwise indicated.
2. Unless otherwise indicated, louvered supply grilles shall be double deflection devices with front blades parallel to the long dimension.
3. A balancing damper shall be provided for each and every diffuser, register and grille where airflow control is required. Where a duct mounted damper would not be accessible, provide either volume damper integral with and accessible thru diffuser face or cable actuated damper.
4. Ceiling supply diffuser connection shall be made with hard elbow or flex duct with Thermaflex flex flow elbow support.

6.0 HEATING AND AIR CONDITIONING UNITS:

A. Air conditioning units shall be as scheduled or by acceptable equal. Units shall be standard catalogued products with the appropriate approval or certification by AGA, ARI and UL. Efficiencies shall conform to ASHRAE 90 standards.

B. Should an alternate manufacturer's equipment be provided that differs in size, weight or configuration from the manufacturer listed as the basis of design, the contractor shall reimburse the architect and engineer for all costs associated with modifying the construction documents to accommodate the alternate manufacturer's equipment. The contractor also shall be responsible for all costs associated with modification to electrical, plumbing, mechanical and structural systems from the original construction documents to accommodate alternate equipment.

C. Ductless Split System Units:

1. Provide wall mounted cassette indoor units with integral cabinet, fan, grille, washable filter, cooling coil and wireless thermostat coupled with remote DC invertor condensing units with low ambient wind baffle. Provide heat pump configuration where shown. Provide all mounting hardware, refrigerant line set.

2. Ductless split systems shall be by Mitsubishi or acceptable equal by LG, Hitachi, Toshiba, or Sanyo.

D. Provide units with manufacturer's standard control package. Controls to include factory wired terminals with overload devices and transformers as required. Unit safety control to include high-low pressure switches, fan relays, short cycle safety and internal pressure relief, gas controls with hi limit and anti- cycle protection.

E. Provide unit accessories as noted on drawings and as required for a complete operating system.

F. Mount units to provide the required service, access and airflow space.

7.0 FANS:

A. Fans shall be as scheduled with all required accessories including vibration isolators, hangers, rate of rise thermostats, etc. Commercial quality fans shall be AMCA rated by Greenheck or acceptable equal by Cook, Acme, Carnes, Penn Barry.

8.0 MISCELLANEOUS MECHANICAL EQUIPMENT:

A. Provide miscellaneous heating equipment with controls and all accessories as scheduled. Heating equipment includes:

1. Unit Heaters: electric.

   a. Electric units shall be Markel, Q'Mark, Trane, Vulcan or acceptable equal.

9.0 FILTERS:

A. Provide filters in air intake to each units A/C system with size and number of filters standard with air unit manufacturer. Provide 1" and/or 2" thick to suit equipment requirements, hi-velocity, throw-a-way MERV 8 filters, Camfil 30/30 or acceptable equal by American Air Filter, Airguard, Air Filters, Inc., Purolator. Filters shall be new and clean at time of Owner's acceptance. Supply extra set of filters for each unit.

10.0 CONTROLS AND LOW VOLTAGE SYSTEMS:

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

C. Controls system shall be electric/electronic with stand-alone programmable digital thermostats.

D. Provide control installation to accomplish the indicated or required sequence of operation including thermostats/ sensors, controllers, actuators, wiring, piping and tubing, software, graphics and other components as required for a complete operating system. Where no sequence is indicated, contractor shall submit a proposed sequence for approval.

E. Devices exposed to view and mounted in finished spaces shall be white in color unless otherwise noted or directed.

F. All occupant adjustable devices shall be mounted in accordance with ADA and ADAAG requirements.

11.0 PIPE, FITTINGS AND VALVES:

A. Provide service valves for each item of equipment, at branch piping and elsewhere as indicated or required. Provide control valves, balance valves, strainers, check valves and other valves as indicated or required by the application.

B. Provide a union or flanged connection between each item of equipment and its service valve. Copper to ferrous pipe connections shall have isolation coupling, flange or union.

C. Refrigerant:

1. Piping – ASTM B280 type ACR pre-charged copper tube, wrought copper or brass fittings, flared compression or brazed joints. Piping and fittings shall be rated for 700 PSIG at 170F. Soft annealed copper tubing or manufacturer's pre-charged line sets up thru 5/8" may only be used in concealed locations, on the exterior or as specifically indicated. Hard temper tubing shall be used in all areas exposed to view in finished spaces and for pipe sizes 3/4" and above.
2. Brazing material shall be hi silver content AWS A5.8 BAg-35 alloy or acceptable equal.
3. Valves -- Shutoff, check, filters/dryers, sight glasses, expansion and solenoid valves rated for refrigerant service.
4. All refrigerant piping work and accessories shall be in strict accordance with manufacturer's requirements, including but not limited to compliance with piping slopes, traps and risers, maximum permitted lengths and cleaning and purging.
5. All refrigerant piping systems shall be eddy current tested, nitrogen purged during brazing and ends capped. They shall be cleaned and triple evacuated in accordance with manufacturer and industry standards.
6. All systems shall be leak tested prior to insulation installation and prior to refrigerant charging and shall be certified leak free with report provided to the engineer. Contractor is responsible for repair of any system leaks including system evacuation and recharging.

D. Condensate drain piping:

1. PVC Pipe – Schedule 40 with solvent cement joints. PVC not permitted in plenums used for supply or return air.
2. Type "L" Copper Pipe – Indoor locations only, provide with wrought copper fittings, 50/50 solder joints.
3. Provide with plugged tee cleanouts unless otherwise accessible for cleaning. Trap all air unit condensate drains with deep traps.
4. Where indicated or where required for positive drainage, provide mechanical units with condensate pump. Provide pumps for small split system coils similar to Aspen Mini-Aqua 3.2 GPH at 33' head or as otherwise specified.
5. Condensate drain piping:
   a. Indoor units shall discharge indirectly to floor drains or to daylight or as otherwise indicated on drawings and shall be in accordance with local codes.
6. Condensate pipe sizing:

   a. Minimum condensate pipe size shall be 3/4".
   b. Piping for individual units shall be as specified by manufacturer or a minimum of the unit connection size.
   c. Install manufacturer supplied condensate lift pumps and pipe discharge adaptors where indicated or required.
   d. Common or manifold condensate system shall be minimum size as follows:

Equipment Capacity, Tons	Min. Pipe Size, In.
Up to 3	3/4"
3-1/2 to 20	1"
21-90	1-1/4"

12.0 PIPE SUPPORTS AND ROUTING:

A. Hangers and Supports.

1. Piping shall be supported in accordance with industry standards including support methods, sizes and spacing. All supports shall conform to MSS SP58 and Fed Spec WW-H-171E and A-A-1192A.
2. Pipe Slopes: Install hangers and supports to provide indicated or required pipe slopes to provide for drainage and venting
3. Deflection: Maximum pipe deflections and stresses as allowed by ANSI B31 are not exceeded.
4. Each piping system shall be independently supported with no piping bearing on another and installed such that no weight of piping is borne by the equipment.
5. Space hangers and supports within maximum piping span length indicated in MSS SP-58. Install building attachments at required locations for proper piping support.
6. Provide adjustable hangers, inserts, brackets, rolls, clamps, channels, rods, guides, anchors, flexible connectors, supplementary steel, etc., as required for proper support of all pipe lines. Trapeze may be used for support of multiple pipes. Provide accompanying attachments including bolts and nuts, sheetmetal screws or rivets suitable for application.
7. Provide copper plated, plastic coated or felt lined hangers where required to prevent electrolysis or abrasion on copper or plastic piping systems.
8. Upper attachments shall be manufactured items specific to the applicable structure. Include concrete inserts, wedge type drilled in inserts, steel beam and joist clamps, plates, rods, clips, straps and brackets as required by the application.
9. Hangers shall be designed to allow for expansion and contraction of pipe lines and shall be of adequate size to permit covering when required. Provide protective saddles and blocking where supporting insulated piping to prevent crushing insulation.
10. All hanger and support parts shall be galvanized steel for non-corrosive environments or stainless steel for corrosive or damp environments.
11. Cable systems may be used at contractor option. They shall be a complete assembly including cables, adjustable locking fasteners or clips and all upper and lower attachments by Gripple or acceptable equal.

B. Routing.

1. Piping shall be routed as shown on drawings, parallel to building lines unless otherwise shown, coordinated with building structure and other trades. Adjust pipe routing and drop locations with necessary pipe offsets or changes in elevation to accommodate beams and other obstructions.

13.0 INSULATION:

A. Ductwork

1. Interior Duct Wrap

   a. Flexible Wrap – Provide sheetmetal duct wrap with 0.75 lb. density glass fiber insulation with FSK glass fiber reinforced laminated/bonded aluminum foil and kraft paper vapor barrier. Apply with all fasteners, mastics and sealants and joint tape.

      a. Concealed low velocity round run-out duct to terminal devices – 1-1/2" thick wrap.
      b. Concealed low velocity round and rectangular air conditioning supply and return in conditioned space or return air plenums –1-1/2" thick wrap.
      c. Concealed low velocity round and rectangular air conditioning supply and return in unconditioned space or non-return plenums –1-1/2" thick wrap.
      d. Concealed low velocity round and rectangular outside air duct – 1-1/2" thick wrap. Liner is not permitted.

   b. Do not externally insulate ductwork exposed to view in finished space.

2. Fire Rated Duct Wrap

   a. Where ducts are required to be separated by a fire rating, wrap duct with 3M 615+ or acceptable equal UL listed fire blanket wrap with aluminum scrim jacket. Provide 1 layer for 1 hour rating and 2 layers for 2 hour rating. Install per manufacturer's requirements.

B. Piping

1. Pipe insulation shall conform to the International Energy Conservation Code.
2. Pipe insulation shall run continuously thru hangers and supports with all joints sealed and vapor barriers preserved.
3. Metallic condensate drain piping: Insulate interior metallic condensate drain lines with Armaflex AP or Aerocel AC EPDM flexible elastomeric insulation. Do not split.

   a. 1" thick for all pipe sizes.

4. Refrigerant suction and hot gas: Insulate with Aerocel AC flexible elastomeric EPDM insulation with 25/50 flame and smoke rating. Do not split. Adhere butt joints with appropriate adhesive. Insulation shall run continuously thru hangers or supports.

   a. Interior - 1" thick for all pipe sizes.
   b. Exterior – 1" thick for all pipe sizes.

5. Exterior flexible elastomeric piping insulation shall be inherently UV resistant, shall have an integral UV resistant jacket or shall be coated with Armstrong WB ultraviolet shield finish or equal.

14.0 VIBRATION ISOLATION:

A. Provide flexible connections at all motor driven equipment, where shown and where required to hold transmitted noise and vibration to an acceptable minimum at piping and duct connections.

B. Duct flexible connection shall be Durodyne non-combustible, 22 ounce (minimum) polymer coated woven fabric or acceptable equal.

C. Equipment Vibration Isolation: All motor driven equipment shall be furnished with isolating mountings. Motors shall be mounted on resilient bases, spring or rubber supports as recommended by the manufacturer. Isolators shall be Amber Booth or acceptable equal by Kinetics, Mason Industries, Vibration Eliminator Co.

15.0 SLEEVES AND SEALS, FLASHINGS, ROOF PIPE SUPPORTS AND UV PROTECTION:

A. Flash all pipes and vents extending through roof. Flashing details shall be in accordance with roof manufacturer's requirements.

B. Continuous roof piping penetrations shall be made weather tight, conform to roof manufacturer warranty. Penetrations shall be as detailed on drawings.

C. Roof pipe supports shall be prefabricated with UV resistant rubber base, unistrut channel and pipe clamp, length and height for consistent pipe elevation to suit application. Mi-Fab C6 series or acceptable equal.

D. Provide sleeves where piping penetrations are required thru partitions, concrete floors, concrete slabs on or below grade or foundation walls. Where penetrations are through fire rated assemblies, sleeves shall be fire stopped in accordance with UL listing requirements. Sleeves shall be galvanized steel pipe, sheet steel or cast iron. Sleeves are not required for core drilled penetrations of existing concrete slabs above grade. Penetrations of below grade structures and slabs on grade shall be water proofed with mechanical link seal system, Thunder Line or acceptable equivalent.

E. Provide escutcheons at all penetrations of exposed walls and ceilings. Escutcheons shall be chrome plated brass in occupied areas, prime paint finish for unoccupied areas unless otherwise noted. Escutcheons for exterior or moist areas shall be brass.

F. Plastic piping without UV inhibiters which is exposed to UV radiation from sunlight shall be protected by coating with a UV resistant paint.

16.0 EQUIPMENT LABELS:

A. Equipment labels shall be provided for all mechanical equipment and shall be self adhesive engraved plastic, blue with white lettering, sized, minimum 1-1/2" high, and located for viewing from ground or floor level. Label shall indicate drawing designation or unique equipment number.

17.0 MISCELLANEOUS

A. Provide escutcheons at all piping penetrations of finished wall, floor or ceiling construction. Escutcheons shall be chrome plated brass in occupied areas, prime paint finish for unoccupied areas unless otherwise noted. Escutcheons for exterior or moist areas shall be brass.

B. Where not provided by other trades and access to mechanical dampers, valves, controls and other items is required in inaccessible ceiling or wall spaces, provide an access door, minimum 12"x12" size with frame style suitable for the type of construction where installed, whether gypsum, concrete or masonry.

1. Access door shall be 16 gauge steel, keyed cylinder lock, flush mounted, concealed hinge. Provide baked enamel finish in unfinished areas or with painted walls. Provide stainless steel where located in tile walls.
2. Standard door shall be Milcor type 'M'.
3. Fire rated door shall be Milcor type 'UFR', UL labeled 1-1/2 hour fire rated self-closing, insulated door panel where located in rated assemblies.
4. Acceptable manufacturers are Zurn, JL Industries and KARP.

18.0 CLEANING:

A. New Work

1. Clean air system by operating at least three hours prior to final acceptance with temporary filters. Remove all filters and replace with clean.
2. Use pre-cleaned, pre-charged refrigerant tube or clean per manufacturer's recommendations.

19.0 TESTING AND ADJUSTING:

A. Contractor shall obtain the services of an independent test and balance agency and shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of general capacity and operating tests. The tests shall demonstrate the performance of the various pieces of equipment meet the specified capacities.

B. The entire temperature controls systems shall be adjusted and balanced and put in operating condition to cause the equipment to maintain the temperatures in accordance with the intent of these specifications. Operate and test equipment during summer and winter seasonal startup under this contract.

C. The building HVAC and controls systems shall be adjusted and balanced and put in operating condition to demonstrate the equipment and systems maintain environmental conditions in accordance with the intent of these specifications. The tests shall also demonstrate all related various pieces of equipment are functioning and that they are performing to maintain the specified design capacities.

D. The test and balance contractor shall perform an initial test and balance noting any mechanical system deficiencies. The mechanical contractor shall review the preliminary report prior to final issue of the test and balance report and work with the test and balance contractor and the engineer as needed to make all system repairs and modifications necessary to achieve the design performance established by the contract document prior to the final reporting. The final test and balance report shall incorporate results of all mechanical system modifications.

E. Test condensate drain piping by filling with water to the drain pan connection(s) for a period of 2 hours with no observable leaks.

F. Submit the complete test and balance report for review to the Architect/Engineer in triplicate.

G. Test procedure and report shall conform to NEBB or AABC standards. The report shall be signed by the responsible individual.

H. Test and Balance shall be completed by a NEBB or AABC certified test and balance agency.

END OF SECTION

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:53

ARCHITECT OF RECORD

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L|F+a Project No. 25.7849.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT LEE'S SUMMIT, MO

OLDHAM VILLAGE

PROJECT NUMBER		
		62500003
PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

STATE OF MISSOURI
JONATHAN SCANLIN
NUMBER PE-2009005130
PROFESSIONAL ENGINEER
11.17.2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/26	PERMIT SET

SHEET NAME

SPECIFICATIONS

SHEET NUMBER

MEP100

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:53

220 110

PLUMBING

1.0 SCOPE:

A. The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation and to provide complete working systems of the Plumbing Systems, including hot and cold water, waste and vent, storm drainage, fixtures, equipment and other items described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect/Engineer.

B. Extend piping systems as indicated on contract documents or to point of connection as follows:

1. Points of connection within the existing building.

2.0 PIPING, FITTINGS AND VALVES:

A. Provide hot and cold water supply to each and every fixture, piece of equipment and to systems where makeup water is required.

B. Provide service valves at each main riser and as required by code.

C. Provide service valves for each item of equipment, at branch piping, fixture groups, individual fixtures and elsewhere as indicated or required. Provide balance valves, strainers, check valves and other valves as indicated or required by the application.

D. Provide a union or flanged connection between each item of equipment and its service valve. Copper to ferrous pipe connections shall have isolation coupling, flange or union.

E. Domestic water, interior, above ground –

1. Pipe, copper tube –

a. 2-1/2" and Smaller – Type "L" hard temper copper, wrought or cast copper fittings, Lead free 95/5 or Eagle Hard Silvabrite or "CB" solder joints, or roll grooved mechanical joints or pressure seal joint fittings with EPDM O-ring seals.
b. 4" and smaller – Type 'L' hard temper cast copper with pressure seal fitting systems, Viega Pro-Press, Apollo Press or equal.

2. Provide valves where indicated on the drawings, where required by code, or required for service.

a. 1/4 turn Service –

1) 1/2" thru 2" – Nibco 585-66-LF bronze lead free, 600 PSIG, full port, stainless steel ball and stem.
2) Provide isolation valves where indicated on drawing, including at branches, terminations, each piece of equipment and elsewhere as required by code.

b. Balance –

1) Manual Flow Balance Valve –

a) Bell & Gossett Circuit Setter Plus "CB-*-LF" lead free brass or bronze, threaded ends – up thru 2".]

c. Check, Strainers and Miscellaneous –

1) Check – 1/2" thru 2" – Nibco 413-Y-LF bronze lead free, 200 PSIG, PTFE seats, Y-pattern check valve.
2) Check – 1/2" thru 2" – Nibco 480-Y-LF lead free, 200 PSIG, PTFE seats, spring loaded, resilient disc, spring loaded inline non-slam check valve, in pump discharge.

3. Securely anchor and support piping, valves and fittings, with adequate provisions for expansion and contraction. Grade lines, free of traps, to low point at cut-off and drain valve.

4. Hot and cold supply lines to have manufactured pre-charged piston type water hammer arresters sized and installed in accordance with PDI-WH 201. Install at each solenoid actuated quick closing valve location including but not limited to dishwashers, clothes washers, ice makers, electronic faucets and similar items. An arrester shall also be required at each group or battery of fixtures to prevent water hammer. Sioux Chief, JR Smith or equal. Provide access panel where required.

F. Natural Gas --

1. Pipe above ground:

a. 2" and smaller – Schedule 40 black steel piping with threaded fittings.
b. 2-1/2" and larger – Schedule 40 black steel piping with welded fittings.
c. 4" and smaller – Schedule 40 black steel pipe with pressure seal steel fittings. Viega Megapress XL, Apollo PowerPress or equal.

2. Valves & Connectors:

a. Shutoff Service –
1) 1/2" thru 1" – Nibco GB-1A, brass body, chrome plated brass ball, PTFE seats, screwed ends, 5 PSIG per CGA, lever handle.
2) 1/2" thru 2" – Nordstrom 142, iron lubricated tapered plug valve, 200 PSIG, threaded ends.
b. Connections to each piece of equipment or appliances shall be made with gas cock, dirt leg and union. Appliance connections may be made with UL listed appliance connectors with union ends.
c. Appliance shutoff valves shall be within 6' of the appliance and accessible, located in adjacent cabinet sections where required.
d. Solenoid, 1/2" thru 2-1/2" – ASCO RED HAT II 8210, brass body stainless steel core, PTFE seats, normally closed, directed or reverse acting per application, UL listed for natural gas service with explosion proof diaphragm actuated operator, voltage as indicated or required.
e. Regulator, 3/4" thru 1-1/2" – Fisher type S, spring loaded diaphragm, 1.5" WC to 2.5 PSIG discharged pressure, threaded, vented to atmosphere.
f. Regulator, 1/2" thru 2" – Maxitrol 235L, spring loaded diaphragm, 2 PSIG Maximum inlet, 7" to 11" WC outlet, threaded, vent limited.
g. Flex Connectors, Metraflex GASCT 300 series stainless steel braided hose with carbon steel threaded ends.

3. Natural gas piping in return air plenum, where permitted shall be either installed in vented fabricated enclosure; sleeved and vented; or welded or one piece.
4. Paint exterior natural gas piping with corrosion inhibiting paint, color to be selected.

G. Sanitary sewer, vent, interior --

1. Pipe – Standard weight cast iron hubless with no-hub shielded mechanical joints; solid wall schedule 40 PVC, ABS with solvent cement joints; vents may be galvanized malleable iron.
2. Plastic piping shall not be allowed in return air plenums.
3. Floor or equipment drains shall be provided at all locations where equipment is indirect wasted. Floor drains shall be provided outside all ADA showers for roll-in applications or where there is no threshold.
4. All gravity drainage shall be graded per code but not less than 1/8" per foot unless noted otherwise, except that piping sizes up thru 2-1/2" shall be sloped at 1/4" per foot. Piping sizes up thru 4" to be sloped at 1/4" per foot where possible and where required by local codes.
5. Vents shall be sloped upward in direction of flow.
6. Indirect waste piping from fixtures or appliances shall be type 'L' copper hard temper with wrought or cast copper fittings, Lead free 95/5 or Eagle Hard Silvabrite or "CB" solder joints. Support piping from fixture supports and/or floor stanchions. Maintain minimum air gap discharge per code requirements.

H. Sanitary sewer, vent, below grade --

1. Pipe – Standard weight cast iron hubless with no-hub heavy duty mechanical joint fittings; solid wall schedule 40 PVC, ABS with solvent cement joints.
2. All gravity drainage shall be graded per code but not less than 1/8" per foot unless noted otherwise, except that piping sizes up thru 2-1/2" shall be sloped at 1/4" per foot. Piping sizes up thru 4" to be sloped at 1/4" per foot where possible and where required by local codes.
3. Vents below grade shall be 2" minimum size and shall be sloped up in direction of flow.
4. Where venting is by traditional means is not possible, air admittance valves may be used subject to approval of the local code authority. Vent shall be ProFlo AAV or acceptable equal. Air admittance valves must be installed in a freely vented location. Where a suitable vented location is not available, they may be installed concealed in walls with a minimum 9" x 9" metal face grille. Where not otherwise specified, provide Proflo PFAAVBX grille assembly.

3.0 CLEANOUTS, TEST TEES, TRAPS AND TRAP SEALS:

A. Provide cleanout at the base of each stack or riser, at ends of runs greater than 100', each 135° aggregate change of direction in horizontal piping, where indicated on the drawings or as required by code. Plugs, extra heavy cast brass, screwed. Scoriated tops in unfinished areas, carpet markets in carpet floors, tile top in tile floors, stainless steel cover in finished walls. Cleanouts shall be the same size as pipe up to 4" diameter, 4" cleanouts for larger pipe unless otherwise noted.

B. Provide test tees at base of risers and elsewhere as required by code.

C. All traps shall be deep seal type with liquid seal not less than specified by code.

D. Where trap primers are not specified provide all floor and hub drains with trap seal with EPDM or silicone diaphragm, conforming to requirements of ASSE 1072 or 1017.2. Provent Proset Series SG22 or TG22, Sioux Chief series 835, Rectorseal SS series or acceptable equal.

4.0 SLEEVES AND SEALS, FLASHINGS, ROOF PIPE SUPPORTS AND UV PROTECTION:

A. Flash all pipes and vents extending through roof. Flashing details shall be in accordance with roof manufacturer's requirements.

B. Continuous roof piping penetrations shall be made weather tight, conform to roof manufacturer warranty. Penetrations shall be as detailed on drawings.

C. Roof pipe supports shall be prefabricated with UV resistant rubber base, unistrut channel and pipe clamp, length and height for consistent pipe elevation to suit application. Mi-Fab C6 series or acceptable equal.

D. Provide sleeves where piping penetrations are required thru partitions, concrete floors, concrete slabs on or below grade or foundation walls. Where penetrations are through fire rated assemblies, sleeves shall be fire stopped in accordance with UL listing requirements. Sleeves shall be galvanized steel pipe, sheet steel or cast iron. Penetrations of below grade structures and slabs on grade shall be water proofed with mechanical link seal system, Thunder Line or acceptable equivalent.

E. Plastic piping without UV inhibiters which is exposed to UV radiation from sunlight shall be protected by coating with a UV resistant paint.

5.0 CROSS- CONNECTIONS AND INTERCONNECTIONS:

A. No plumbing device or piping shall be installed which will provide cross-connection or interconnection between a distributing supply or waste so as to make possible the backflow or back-siphonage of polluted water into the potable water supply system. Where the possibility of back-siphonage exists, water supply to the fixture shall be introduced through a suitable backflow preventer device suitable for the hazard protected. Installed backflow preventers must be approved through the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research.

1. They may be an air gap, anti-syphon valve, atmospheric vacuum breaker, pressure vacuum breaker, double check, reduced pressure backflow preventer or as otherwise required by the authority having jurisdiction.

2. Where not otherwise indicated, miscellaneous equipment items with direct water connections, shall have backflow devices in accordance with authority having jurisdiction. Where not otherwise indicated, equipment such as coffee and tea makers, shall be equipped with double check valves, ASSE 1024. Connections to pressurized equipment or systems shall have reduced pressure backflow devices. Drink or carbonated water systems shall be equipped with strainer and stainless steel reduced pressure or dual check backflow device with atmospheric vent, ASSE 1022 compliant.

6.0 PLUMBING EQUIPMENT:

A. Water heaters, pumps, expansion tanks and other equipment shall be as scheduled or by acceptable equal by one of the following:

Water Heaters and Accessories:
Water Heaters: A.O. Smith, State, Rheem, Bradford White
Expansion Tanks: Watts, Amtrol, Armstrong, Elbi, Taco, Wessels.

Pumps and Accessories:
Domestic Circulating Pumps: Bell and Gossett, Armstrong, Grundfos, Taco.

B. Water Heater Installation

1. Pipe water heater drains and/or pan drains to indirect waste per code and as noted or detailed. Water heater P&T relief valves shall be piped independently, indirectly wasted 6" above receptor per code and as noted or detailed.
2. Install vacuum relief valve on each bottom fed storage water heater, installed above the top of the water heater on cold water inlet piping.
3. Mount water heaters on concrete floor pads, suspended from structure on steel rods, on steel floor stands or wall bracket steel frames as indicated on drawings.
4. Suspended heaters up to 50 gallons may be mounted utilizing prefabricated steel support platform, HoldRite SWHP series or acceptable equal.
5. Where water heaters are mounted overhead, on wood floor or other location requiring containment, mount water heaters in drain pan with 1" minimum drain, HoldRite QP series, acceptable equal or field fabricated equivalent.
6. High efficiency gas fired water heaters shall have a condensate neutralization kit.
7. Water piping connections to water heaters shall be metallic, no plastic piping is permitted within 18" of a water heater connection. Stainless steel flexible connectors with union ends may be used, HoldRite or acceptable equal. Provide 18" minimum flexible corrugated copper or braided stainless steel connector hoses with compression ends for water heaters with 3/4" water connections.

C. Water heater vents shall be matched to equipment type specified. Provide UL Listed assemblies where required by code. Furnish with all accessory items including, flashing, roof cap, concentric vent/combustion air terminal, storm collar, couplings and fittings, condensate drains and mounting hardware.

1. Refer to mechanical specification for water heater vents.

D. Pumps used for potable water system applications shall be of lead free all bronze or stainless steel construction.

E. Provide equipment accessories including but not limited to operating controls, limit switches, oil sensors, high level controls, timers, aquastats, energy management system interface, etc. as indicated on drawings and as required for a complete operating system.

7.0 INSULATION:

A. Pipe insulation shall conform to the International Energy Conservation Code.

B. Insulate all cold water, hot water and hot water recirculating piping, Owens Corning or acceptable equal.

1. Cold water piping insulation: 1" fiber glass sectional pipe covering with universal vapor barrier jacket.
2. Hot Water and hot water recirculating piping insulation: 1" (pipe sizes up thru 1-1/4") 1-1/2" (pipe sizes 1-1/2" and above) fiber glass sectional pipe covering with universal all service jacket.
3. Hot water recirculating pump body shall be insulated with 3/4" flexible elastomeric sheet or 1" fiberglass semi-rigid board with FSK jacket. All seams and joints shall be taped or mastic sealed.

C. At Contractor's option, Armacell AP Armaflex unicellular insulation or acceptable equal with 25/50 flame and smoke rating with equal thermal performance may be substituted for fiberglass products.

D. Seal all joints on cold water insulation to maintain vapor barrier.

E. Insulation shall run continuously thru hangers and supports without interruption.

F. Refer to plumbing fixture schedule for protective insulation of fixture drains and water piping for compliance with ADA requirements for People with Disabilities.

1. Pipe coverings may be omitted where protection from injury (such as shrouds or casework) is provided by other trades.
2. Provide comparable protection for accessory items such as disposers where items are exposed to contact beneath ADA designated fixtures.

8.0 PIPE SUPPORTS AND ROUTING:

A. Hangers and Supports

1. Piping shall be supported in accordance with industry standards including support methods, sizes and spacing. All supports and installation shall conform to MSS SP58 and 69 and Fed Spec WW-H-171E and A-A-1192A.
2. Pipe Slopes: Install hangers and supports to provide indicated or required pipe slopes to provide for drainage and venting
3. Deflection: Maximum pipe deflections and stresses as allowed by ANSI B31 are not exceeded.
4. Each piping system shall be independently supported with no piping bearing on another and installed such that no weight of piping is borne by the equipment.
5. Space hangers and supports within maximum piping span length indicated in MSS SP-58. Install building attachments at required locations for proper piping support.
6. Provide adjustable hangers, inserts, brackets, rolls, clamps, channels, rods, guides, anchors, flexible connectors, supplementary steel, etc., as required for proper support of all pipe lines. Trapeze may be used for support of multiple pipes. Provide accompanying attachments including bolts and nuts, sheetmetal screws or rivets suitable for application.
7. Provide copper plated, plastic coated or felt lined hangers where required to prevent electrolysis or abrasion on copper or plastic piping systems.
8. Upper attachments shall be manufactured items specific to the applicable structure. Include concrete inserts, wedge type drilled in inserts, steel beam and joist clamps, plates, rods, clips, straps and brackets as required by the application.
9. Hangers shall be designed to allow for expansion and contraction of pipe lines and shall be of adequate size to permit covering when required. Provide protective saddles and blocking where supporting insulated piping to prevent crushing insulation.
10. All hanger and support parts shall be galvanized steel for non-corrosive environments or stainless steel for corrosive or damp environments.
11. Cable systems may be used at contractor option. They shall be a complete assembly including cables, adjustable locking fasteners or clips and all upper and lower attachments by Gripple or acceptable equal.

B. Routing

1. Piping shall be routed as shown on drawings, parallel to building lines unless otherwise shown, coordinated with building structure and other trades. Adjust pipe routing and drop locations with necessary pipe offsets or changes in elevation to accommodate beams and other obstructions.

9.0 EQUIPMENT AND PIPE LABELS:

A. Equipment labels shall be provided for all plumbing equipment and shall be self-adhesive engraved plastic, blue with white lettering, sized, minimum 1-1/2" high, and located for viewing from ground or floor level. Label shall indicate drawing designation or unique equipment number.

B. Pipe labels for domestic water, waste, vent and gas piping shall be preprinted, color-coded, with 1-1/2" lettering indicating service, and showing flow direction, locate pipe labels where piping is exposed or above accessible ceilings in finished spaces; machine rooms; accessible maintenance spaces such as shafts, tunnels, and plenums; and locations as follows:

1. Near each valve and control device.
2. Near each branch connection, excluding short takeoffs for fixtures and terminal units. Where flow pattern is not obvious, mark each pipe at branch.
3. Near penetrations through walls, floors, ceilings, and inaccessible enclosures.
4. At access doors, and similar access points that permit view of concealed piping.
5. Near major equipment items and other points of origination and termination.
6. Spaced at maximum intervals of 50 feet along each run. Reduced intervals to 25 feet in areas of congested piping and equipment.
7. On piping above removable acoustical ceilings, omit intermediately spaced labels.

C. Warning labels shall be self-adhesive engraved plastic or preprinted plastic as required by application with white lettering on red background provided at locations as required by code or where hazards to personnel exist.

10.0 MISCELLANEOUS

A. Indirect wastes shall discharge full size thru an air gap to a floor, equipment drain, sanitary floor sink or hub drain. The floor or equipment drain grate shall be fitted with a funnel, the sanitary floor sink shall have a partial grate or the grate shall be omitted. Drains shall be located so they are accessible and not a tripping hazard.

B. Provide escutcheons at all penetrations of exposed walls and ceilings. Escutcheons shall be chrome plated brass in occupied areas, prime paint finish for unoccupied areas unless otherwise noted. Escutcheons for exterior or moist areas shall be brass.

11.0 PROTECTION OF WORK

A. Protection

1. Protect and cover piping and fixture waste and water openings to prevent entry of dirt and debris.
2. Cover and protect fixtures and plumbing equipment to prevent damage.

12.0 TEST, ADJUSTMENTS AND CLEANING:

A. Soil, waste and vent piping testing:

1. Initial Piping Water Test: Fill with water to the top of the highest point of the system extending through roof. Systems may be tested in whole or part. The system shall remain leak free under test for a minimum period of Fifteen (15) minutes.
a. Gravity Drain Test: Either 10' water column or at a pressure not less than 10% above that the piping will be subjected to during nominal operation
b. Pressure Piping Test: Either 25 PSIG or at a pressure not less than 10% above that the piping will be subjected to during nominal operation.
c. Where applicable, isolate new portions of the system(s) piping with test tee and Oatey Clean Seal inflatable plug prior to testing.

2. Final Piping Test: The completed system(s) shall be visually inspected to determine compliance with all codes and standards. Where required by the building official, the completed system shall be smoke tested with all traps water filled and system pressured to 1" WC for a minimum period of fifteen (15) minutes.

B. Water and gas line testing:

1. Water piping shall be purged and tested with compressed air or water at 50 PSIG above the operating pressure but not to exceed the pressure rating of piping system materials for a period of 2 hours with no measurable pressure drop.
2. Natural gas lines shall be inspected and blown out with dry compressed air or nitrogen to purge of debris and tested at 1-1/2 times the operating pressure or a minimum of 25 PSIG pressure with no measurable pressure drop. All test procedures including duration of test shall be in accordance with NFPA 54 and the International Fuel Gas Code.
3. Where applicable, isolate new portions of pressure piping from existing piping with valves prior to testing.
4. For renovation projects, isolate and protect fixtures, valves and equipment from over pressurization during testing

C. After successful testing, sterilize water system with an approved solution in accordance with local health officials.

D. Contractor to submit all test data and other documentation for record.

13.0 FIXTURE BRANCH PIPING:

A. Fixture branch and connection sizes shall be as shown in the plumbing fixture schedule on the drawings and not less than required by code.
B. Minimum waste or vent size below slab on grade shall be 2".

14.0 PLUMBING FIXTURES:

A. Refer to plumbing fixture schedule for plumbing fixtures and accessories. Include all fittings and accessories as required for a complete working system.

B. Where required for ADA compliance, provide lavatory and sink offset drain and tailpiece assembly.

At contractor option, flexible stainless steel braided hose, 125 PSIG rated, with non-toxic liner and compression fittings may be used in lieu of chrome plated brass riser tube. Where ADA complinace is required, provide flexible insulation wrap on braided water supplies in lieu of specified molded vinyl wrap.

15.0 FIXTURE AND ACCESSORY MANUFACTURERS:

A. Fixtures, equipment and accessories are specified by manufacturer's numbers as to the type and quality required.

B. Specified manufacturers and approved equal manufacturers are as follows:

FIXTURE, ITEM OR EQUIPMENT	APPROVED EQUAL MANUFACTURERS
Vitreous China Fixtures	American Standard, Toto, Kohler, Zurn
Stainless Steel Sinks	Elkay, Just, Kohler, Advance Tabco
Service Sinks – Terrazzo	Stern-Williams, Acorn, Fiat, Florestone
Water Fountains and Coolers	Elkay, Halsey-Taylor, Haws
Supply Faucets & Trim	Chicago Faucets, Delta, Elkay, Kohler, Sloan, T & S Brass, Toto, Watts, Zurn
Stops & Supplies	BrassCraft, McGuire, ProFlo, Watts, Jones Stephens
Waste Fittings	Dearborn Brass, McGuire, ProFlo, Jones Stephens, Watts
ADA Under Lavatory Pipe Covers	Trubro, ProFlo, Plumberex
Water Closet Seats	Church, Bemis, Beneke, Centoco, Olsonite, Toto
Flush Valves	Sloan, Zurn, Toto
Carriers	J R Smith, Josam, Wade, Watts, Zurn
Drains and Drainage Products	J R Smith, Sioux Chief, Wade, Watts, Zurn, Josam
Valve and Waste Boxes	Sioux Chief, IPS Corp, Oatey
Water Shock Arrestors	Amtrol, J R Smith, Precision Plumbing Products, Sioux Chief, Watts, Zurn
Mixing Valves, point of use	Leonard, Acorn, Delta, Wilkins, Watts, Zurn

END OF SECTION

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FIRE PROTECTION

1.0 SCOPE:

A. Fire protection shall be governed by all applicable provisions of the Contract Document.

B. Provide a complete and operational fire protection system as required by NFPA, systems shall include:

1. Wet sprinkler system -- NFPA 13.
2. Dry or pre-action sprinkler system – NFPA 13.
3. Private Fire Service Mains – NFPA 24.
4. Wet chemical fire suppression system – NFPA 17A.
5. Systems shall be compliant with NFPA 70, 72, FM and UL as applicable.

C. All fire protection components shall be UL and FM approved devices where applicable as required by NFPA.

D. Upon completion of the work, system acceptance testing shall be performed by the sprinkler contractor in accordance with requirements of NFPA. Perform all flushing and testing of the system including pressure and flow tests and testing of all electrical, controls and safety components.

E. Provide permanent identification of all valves, piping, electrical components and equipment in accordance with NFPA 13.

F. Contractor shall provide spare sprinklers in cabinet as required by NFPA.

G. Upon completion of the project, the fire protection contractor shall furnish 'Record' documentation including plans, equipment data sheets for all component and testing results as required by NFPA.

2.0 WET AND DRY SPRINKLER AND STANDPIPE SYSTEMS

A. Systems shall be in accordance with NFPA 13 and complete in every respect to provide complete coverage of all areas in the building, or throughout the area of work as indicated. Sprinkler system shall be hydraulically designed per appropriate hazard class.

B. Sprinkler system shall be a delegated design, and contractor shall be responsible for layout and design of the fire sprinkler system. Submit all necessary documentation (plans, calculations, cut sheet literature and flow tests) and obtain necessary permits for approval and installation of the system. Provide PE or NICET stamp, as required by the Authority Having Jurisdiction, on submittal drawings.

C. As required by application, system shall include but not be limited to pipe and hangers, sprinklers, valves, inspector tests, fire department connection, audible and visible alarms, pressure, flow and tamper switches, gauges, deluge valves, control panels, wiring, hose valves, etc.
1. System shall extend from point of connection 5' from building wall lines.
2. Service entrance piping shall be in accordance with NFPA 24 including installation, testing and flushing.

D. Sprinkler system service entrance.

1. Underground fire main – Provide new 6" minimum fire protection main outside the building and extended to the fire protection water service in the sprinkler riser room.
2. Backflow preventer – provide new Double Detector Check Valve Assembly.
3. Provide new fire sprinkler riser(s) system control valve with tamper switches and manifolded riser with isolation valves for each wet and dry sprinkler system. All valves shall be provided with tamper switches.

E. Provide new sprinkler piping and sprinklers throughout area of work.

F. Where required to prevent freezing of the system, provide dry sidewall or pendant sprinklers**,** an approved dry sprinkler system with air compressor and nitrogen generation system**, or** a UL-listed anti-freeze system with fill station. Include all necessary components including isolation and control valves, alarm devices and related items for a complete working system.

3.0 PIPING, FITTING AND VALVES:

A. Fire protection underground -

1. Pipe -- Class 50 molded ductile iron pipe, cement mortar lined, with ductile fittings and mechanical compression joints, 3" and larger.
2. PE pipe and fittings with minimum thickness equivalent to Class 150 and Molded PE Fittings: PE butt-fusion type, made to match PE pipe dimensions and class.
3. PVC pipe and fittings - AWWA C900 or UL 1285, Class 150 and Class 200, with bell end with gasket, and with spigot end with PVC Fittings with bell-and-spigot or double-bell ends. Include elastomeric gasket in each bell.

B. Fire protection piping and components above ground -

1. Pipe –

a. 2" and smaller – Schedule 40, black steel, malleable iron threaded, flanged or welded fittings; roll or cut groove mechanical joints with wrought or forged steel fittings or roll grooved end couplings.
b. 1-1/2" and larger – Schedule 10, black steel; roll groove mechanical joints with roll grooved end couplings.
c. Contractor to match existing building piping material standards.

2. Sprinkler piping shall be independently supported from all other systems, no other system or component may bear on any sprinkler pipe or support. In accordance with NFPA 25 or where required by local authority, sprinkler piping shall not be subjected to external loads by materials either hung from or resting on sprinkler piping.

3. Valves –
a. Shutoff –
1) 1/2" thru 2"
a) Nibco T-104-0 Bronze, UL and FM approved OS&Y Gate, 175 PSIG.
2) 2-1/2" thru 12"
a) Nibco F607-OTS Cast Iron, UL and FM approved OS&Y Gate, 175 PSIG.
b. Check –
1) 2-1/2" thru 12"
a) Nibco F-908W, Cast Iron Horizontal Swing, Bolted Bonnet, UL and FM approved, 175 PSIG.
c. Double Check Detector Assembly –
1) 3" thru 10"
a) Watts 757DCDA-OSY, stainless steel double check assembly with OS&Y shutoff valves, detector meter, UL and FM approved.
d. Sectional Zone Valves –
1) 1/2" thru 2"
a) Nibco T-104-0 Bronze, UL and FM approved OS&Y Gate, 175 PSIG. Provide with tamper and flow switches.

4. Sprinklers may be supplied by UL 2443 listed 1" minimum 304 stainless steel (braided or unbraided corrugated) 175 PSIG rated flexible hoses with all associated UL listed fittings, threaded ends, brackets and other attachments, 6' maximum length. Victaulic Vic-Flex or acceptable equivalent.
5. Auxiliary Drains shall be provided in accordance with NFPA 13 at all system low points for complete system drainage. Provide signage indicating all drain locations.

4.0 SPRINKLERS

A. Provide quick response sprinklers including replacement sprinklers, standard response, extended coverage or dry sprinklers as required by application.

B. Replace existing non-compliant sprinklers as required by application. Sprinklers older than 50 years shall be removed and replaced with new, or a representative sample from each area shall be tested per NFPA 25.

C. Sprinklers shall be of the following styles, subject to application.

1. Recessed chrome plated brass with 2-piece adjustable escutcheon in gypsum and lay-in tile ceilings.
2. Pendant chrome plated brass with escutcheon in gypsum and lay-in tile ceilings.
3. Concealed brass with painted flat concealer plates in gypsum and lay-in tile ceiling.
4. Upright brass in unfinished areas. Provide wire cage in areas subject to damage.
5. Upright chrome plated brass in finished areas with exposed structure.
6. Where not otherwise indicated, sprinkler type, style, appearance and coverage to match existing.
7. Any sprinklers removed shall be replaced with new sprinklers.

D. Locate sprinklers at center of 2 x 2 lay-in tiles or 2 x 2 portion of 2 x 4 lay-in tiles. Align sprinklers in a row when in gypsum board ceilings. All location tolerances shall be +/- 1/2".

E. Refer to reflected ceiling plans for coordination with lights, diffusers, exit signs, etc.

F. Install sprinklers above combustible ceilings in concealed combustible space per NFPA 13-8.15. Install sprinklers above and below all cloud ceilings in accordance with NFPA 13 8.15.24. Install sprinklers above ceilings where spaces have ceilings that are lower than the rest of the area, the space above the lower ceiling shall be sprinklered unless it complies with the rules of 8.15.1.2 for allowable unsprinklered concealed spaces. The sprinkler system shall extend beyond the lower ceiling as required by NFPA 13 and be designed in accordance with 8.15.23.3.

END OF SECTION

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ELECTRICAL

1.0 SCOPE:

A. The work included under this contract consists of the furnishing of all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the electrical systems and other items herein listed, all as directed by the Architect or Engineer, which work is comprised of, but not limited to the following principal items:

1. Electrical system for light and power:

a. Electrical service and distribution system revisions.
b. Switches and panel boards.
c. Systems of conduit, conductors, and boxes.
d. Receptacles and wiring devices.
e. Lighting fixtures and lamps.
f. Power service to the various motors.
g. Complete lighting and power systems.
h. All systems, wiring and conduit as required.

2. Control wiring and electrical installation and connections for items in other contracts as may be listed in the drawings.
3. Empty conduit and boxes for future installation of telephone wiring and miscellaneous systems.
4. Rough-in and final connection to equipment furnished by others.
5. All cable ties for low voltage cable 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.

B. Raceway wiring systems shall be concealed in all finished parts of the building, where possible. Where the raceways are exposed, they shall be run parallel with the building walls in a neat and workmanlike manner. Should it appear necessary to expose any conduit or wiring in finished spaces, it shall be brought to the Architect's attention immediately and this Contractor shall rearrange associated work as directed to facilitate an approved installation. Contractor to coordinate with mechanical trades to avoid ductwork and piping.

C. Contractor is responsible to provide liaison with electrical and communication companies. The Contractor shall provide and install all required equipment and connect as required to complete an operating service to the building.

2.0 RACEWAYS:

A. All electrical conductors are to be installed in metal raceways, unless specifically specified or noted otherwise. Galvanized steel or intermediate steel conduit as permitted by code. No conduit smaller than 3/4" to be used. Verify with architect if 1/2" conduit can be used. Use set screw or compression type fittings. Provide flexible conduit connection for final connection to each motor not to exceed 3' in length and recessed lighting fixtures not to exceed 6' in length. Provide pull wires in all empty conduit systems. Identify terminus of each pull wire. All exposed raceways shall be installed with runs parallel and/or perpendicular with building walls. Fasten all rigid/non-flexible conduit every 8' and 2' from each box. Conduit shall be EMT where not subject to mechanical damage as permitted by National Electric Code (N.E.C.). EMT connectors and couplings 4" and smaller shall be compression type. Type MC Cable with ground wire is allowed in concealed spaces only, behind walls and above ceiling. Fasten all MC and or FMC every 4.5' feet and within 12" inches of conduit termination, excluding final connections to motors and lighting fixtures.

B. Conduit bushings shall be provided and installed inside all disconnects, pull boxes, panelboards, switchboard or similar type equipment and where permitted by National Electric Code (N.E.C.).

C. Schedule 40 PVC conduit may be used for underground installation and where permitted by National Electric Code (N.E.C.). Transition to RGS for sweep from below grade to above grade.

3.0 WIRES AND CABLES:

A. Electrical conductors, soft annealed copper with conductivity 98% of that of pure, stranded copper, 90 degree - 600V insulation and equal to General Cable Company. Wire and cable for all feeders, subfeeders, motor circuits and high ambient location type shall be THHN. All other branch circuit wiring shall be type XHHN or THHN. Minimum wire size shall be #12 gauge AWG. Control wiring may be #14 gauge.

B. For conductors #4 or small use the following color-code:

- 208Y/120V, 3-phase: black, red, blue, white.
- 480Y/277V, 3-phase: brown, orange, yellow, gray.
- Green shall be used for ground wire conductor.
- Contractor shall use the following color designations and be consistent throughout the project. Color designation for switch legs and or travelers: Violet, Pink or Purple may be used.

C. For conductors larger than #4, Field-Applied, Color-Coding Conductor Tape can be applied in half-lapped turns for a minimum distance of 6 inches from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings. When using black insulated conductors, contractor shall color-code conductor inside all pullbox or similar type enclosures.

D. Conductor Material Applications:

a. Feeders: Copper; solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

b. Feeders: Copper for feeders smaller than No. 4 AWG; copper or aluminum for feeders No. 4 AWG and larger. Conductors shall be solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

c. Branch Circuits: Copper. Solid for No. 12 AWG and smaller; stranded for No. 10 AWG and larger.

d. Power-Limited Fire Alarm and Control: Solid for No. 12 AWG and smaller.

E. Conductor insulation and multi-conductor cable application and wiring methods:

a. Exposed Feeders: Type THHN, single conductors in raceway.

b. Feeders Concealed in Ceilings, Walls, Partitions, and Crawlspaces: Type THHN, single conductors in raceway.

c. Feeders Concealed below Slabs-on-Grade, and Underground: Type THWN-2, single conductors in raceway.

d. Feeders Concealed in Concrete: Type THHN, single conductors in raceway.

e. Exposed Branch Circuits, Including in Crawlspaces: Type THHN, single conductors in raceway.

f. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN, single conductors in raceway.

g. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THWN-2, single conductors in raceway.

4.0 GROUNDING:

A. Ground all electrical apparatus in accordance with N.E.C. and as specified herein. Provide a separate grounding conductor for all lighting, receptacle and equipment circuits. All cabinets, switchboards, equipment cases, motor frames, interior metal cold water piping systems, and system neutral conductors shall be effectively grounded. Use solderless pressure type connectors, no perforated strap connectors will be allowed. Ensure continuous bond where flexible conduit is used. Provide bonding jumper inside all flexible conduit. Grounding per N.E.C. 250, and any local requirements.

5.0 SPLICE AND TAPS:

A. Make splices at junction boxes, pull boxes, or outlet boxes only.

6.0 CABINETS, JUNCTION AND PULL BOXES:

A. Flush or surface mounted as indicated on drawings. Provide where shown on drawings and where required by code. Construct of cold gauge steel for flush surface mounting.

7.0 OUTLET BOXES:

A. General Electric, Appleton, Steel City or Raco hot dipped galvanized steel boxes, or equal. Install at terminal of each conduit run, each outlet, or device. Provide size, type and design to suit structural conditions. Adequate to accommodate size and number of raceways, conductors, device or fixture served. Provide plaster rings or covers on boxes where required on exposed work, use approved cast ferrous alloy outlet, junction boxes and fittings. Fixture or device cover shall completely conceal the size outlet box used. Install 3/8" fixture stud for lighting fixtures where required. Locate ceiling outlets to work with architectural features as directed. Switches installed 48" above floor on strike side of door as finally hung. Receptacles and telephone outlets, 18" above finished floor unless otherwise noted. Verify all outlet locations on job with Architect.

8.0 PANELBOARDS:

A. Panel boards are as indicated on the drawings. Main lugs only unless noted or specified otherwise. Provide typewritten schedule of circuits in index cardholder. Provide with hinged door and hinged cover. All circuit breakers shall be bolt-on molded case and have positive "trip" indication. Breakers used on existing panels shall match existing units and shall be labeled to have positive "trip" indication. Breakers shall be labeled to indicate suite number and use. Panelboards shall be ABB(General Electric), Square D, Siemens or Eaton/Cutler Hammer. All single pole circuit breakers shall be 'switch duty rated'. Panelboards shall be fully rated. Series rated panels are not permitted.

9.0 DISCONNECT SWITCHES:

A. Heavy duty NEMA type 'HD' - same manufacturer as panelboards. Plastic nameplate properly engraved with name of equipment served, secured to switch cover. Fuses shall be Bussmann of sizes and types scheduled.

10.0 MOTOR AND CONTROL WIRING AND CONNECTIONS:

A. This Contractor to provide all necessary conduit, boxes and supports to equipment furnished by Owner and as indicated on drawings. Provide a disconnect switch and starter if required.

11.0 LABELING:

A. Contractor shall label each and every j-box above ceiling with a permanent marker with panel and circuit number.

B. Outlets, adhesive film label, machine printed clear background with black letters, by thermal transfer or equivalent process. Minimum letter height shall be 1/4 inch. Face plate shall be labeled with panel and circuit number.

C. Interior equipment self-adhesive, engraved, laminated acrylic or melamine label: adhesive backed, with white letters on a dark-gray background. Minimum letter height shall be 3/8 inch (10 mm).

D. Exterior equipment: Stenciled or engraved, laminated acrylic or melamine label: punched or drilled for screw mounting. White letters on a black background. Minimum letter height shall be 1 inch (25 mm).

12.0 WIRING DEVICES:

A. Duplex receptacles shall be Hubbell #5352-X grounding type, 20A., 125V.; G.F.C.I. shall be Hubbell GF-5352-X, 20A., 125V.; duplex, G.F.C.I. TYPE. Isolated ground receptacles shall be orange in color, Hubbell IG-5352, 20A, 125V, duplex. Isolated ground receptacles shall be equipped with a Hubbell IGP-8 plate, orange in color inscribed "Isolated Ground". Wall toggle switches shall be Hubbell Number 1221-X and Number 1223-X for single pole and three way types respectively. Other switch, receptacle, and outlet device variations shall be by Hubbell of "Spec. Grade" quality. Equivalent devices of P & S or Leviton will be acceptable in lieu of the above listed devices. Provide smooth plastic or brushed stainless steel cover plates to mate and match device for each outlet.

B. All wiring devices shall have the associated color and cover plate combination for each specified space type. Confirm with architect the combination listings are still acceptable prior to purchase.
a. Back of House, Cooler, and Storage Spaces.
i. Stainless steel cover plates and gray devices
b. Dining Area
i. Black smooth plastic cover plates and devices below 3'-5" AFF and above 10'-6" AFF.
ii. White smooth plastic cover plates and devices between 3'-5" and 10'-6" AFF.
c. Customer Restrooms
i. White smooth plastic cover plates and devices.
d. Patio Bar
i. Black smooth plastic cover plates and devices below 4'-0" AFF and above 10'-6" AFF.
ii. White smooth plastic cover plates and devices between 4'-0" and 10'-6" AFF.

13.0 LIGHTING FIXTURES:

A. This Contractor shall furnish and install complete, unless otherwise specified, a lighting fixture on each and every lighting outlet shown on the drawings of each type scheduled by letter and description. All fixtures shall be equipped with lamps as scheduled or specified herein. All fixtures installed in suspended ceilings must be securely fastened to framing members per NEC 410-36b and local seismic code requirements.

14.0 FIRE ALARM SYSTEM:

A. Fire alarm system shall be a delegated design, contractor shall be responsible for layout and design of the fire alarm system. Submit all necessary documentation including stamped and signed drawings to the authority having jurisdiction and obtain necessary permits for approval and installation of the system prior to submitting shop drawings.

B. Engineer's drawings showing fire alarm devices are schematic, and only provide code intent, coordination, and all devices may not be indicated. Final layout shall be provided by the Fire Alarm contractor. Fire alarm contractor shall become the Designer of Record as such, the contractor shall be responsible to verify device layouts comply with all applicable codes and shall include in bid all cost associated with additional devices should they be required. Final layout shall be coordinated with the architect and plans.

C. Contractor shall include in bid all cost associated with Fire alarm modifications.

D. Contractor shall provide a complete fire alarm system with intelligent addressable devices. Systems shall be non-coded fire alarm protective type system. Fire alarm audible and visual devices shall be placed throughout the facility. Heat/smoke detectors for mechanical equipment shall be interlocked and connected to alarm system in accordance with NFPA 90A and 96.

E. Fire alarm system shall be relocated or added for code compliance.

F. All detection devices shall be addressable, non-coded fire alarm protective type matching base building type and style. Overall system shall utilize the following:

1. Fire alarm speaker and strobes shall be relocated and added throughout the facility per code requirements.
2. System signal wire shall be type THHN in conduit or shall be UL listed plenum cable.

G. All new equipment shall be ADA compliant, be by one manufacturer, and warranted for a minimum of one year.

END OF SECTION

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L|F+a Project No. 25.7849.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

STATE OF MISSOURI
JONATHAN SCHLIN
NUMBER PE-2009005190
PROFESSIONAL ENGINEER
11.17.2025

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ISSUES AND REVISIONS

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SPECIFICATIONS

SHEET NUMBER

MEP101

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SPLIT SYSTEM SCHEDULE (COOLING ONLY)

INDOOR UNIT									OUTDOOR UNIT						SYSTEM EFFICIENCY		ELECTRICAL																
					COOLING							COOLING			COOLING		INDOOR UNIT									OUTDOOR UNIT								
MARK NO.	MANUFACTURER	MODEL	CONFIGURATION	AIRFLOW CFM	EDB (°F)	EWB (°F)	TOTAL MBH	SENS. MBH	MARK NO.	MANUFACTURER	MODEL	STAGES	AMB. (°F)	SEER2	NOTES	VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG/SIZE	NOTES
FCU-1	MITSUBISHI	PKA-AK36NL	WALL MOUNTED CASSETTE	920	80	67	33.4	20.4	CU-1	MITSUBISHI	PUY-AK36NL	VARIABLE	95	20.3	1,2,3,4	208	1	60	0.34	0.43	-	-	-	-	208	1	60	27.2	34	35	60/2/NF	P1-81,83	-	A

NOTES:
1. PROVIDE -40°F LOW AMBIENT KIT WITH ADVANCED WIND BAFFLES.
2. PROVIDE HARD-WIRED WALL MOUNTED REMOTE CONTROLLER.
3. PROVIDE PREFABRICATED EQUIPMENT SUPPORT RAILS.
4. DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR.

NOTES: A. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT FOR EQUIPMENT.

ROOFTOP UNIT SCHEDULE

MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	MIN O.A. CFM	EXT. S.P. (IN W.G.)	FAN HP	FAN DRIVE TYPE	RPM	COOLING									HEATING-GAS			NOTES	ELECTRICAL									
									AMB. (°F)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TOTAL MBH	SENS. MBH	STAGES	EER	INPUT MBH	OUTPUT MBH	STAGES		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
RTU-1	EXISTING	EXISTING	6000	1800	0.8	3	BELT	862	95	80	67	58.9	57.4	182	136.5	4	10.9	400	324	2	1,2	480	3	60	36	40.2	50	-	-	-	A
RTU-2	EXISTING	EXISTING	5000	1500	0.8	5	BELT	1090	95	80	67	59.2	57.3	154	112.5	3	11	250	203	2	1,2	480	3	60	31.5	34.3	40	-	-	-	A
RTU-3	EXISTING	EXISTING	5000	1500	0.8	5	BELT	1090	95	80	67	59.2	57.3	154	112.5	3	11	250	203	2	1,2	480	3	60	31.5	34.3	40	-	-	-	A
RTU-4	EXISTING	EXISTING	8800	2400	0.8	7 1/2	BELT	1069	95	80	67	58.3	56	303.6	206.4	4	10	400	324	2	1,3	480	3	60	62.3	67.1	80	-	-	-	A

NOTES:
1. EXISTING ROOFTOP UNIT TO REMAIN FROM SHELL BUILDING.
2. INTERLOCK RTU'S 1-3 WITH KITCHEN HOOD CONTROLS SUCH THAT RTU'S OPERATE IN OCCUPIED MODE WHENEVER MAU-1 AND KEF'S 1-5 ARE OPERATING.
3. INTERLOCK RTU-4 WITH KITCHEN HOOD CONTROLS SUCH THAT RTU OPERATES IN OCCUPIED MODE WHENEVER MAU-2 AND KEF'S 6-9 ARE OPERATING.

NOTES: A. EXISTING EQUIPMENT FROM SHELL BUILDING.

WATER HEATER SCHEDULE (HIGH EFFICIENCY GAS)

MARK	MANUFACTURER	MODEL	TANK LINING	TANK CAPACITY (GAL)	RECOVERY (GPH @ 100°F)	INPUT (MBH)	MIN. THERMAL EFF, %	VENT SIZE (IN.)	THERMAL EXP TANK MODEL NO.	NOTES	ELECTRICAL									
											VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
DWH-1,2	AO SMITH	BTH-199	GLASS	100	235	199	93	3	PLT-12	1,2,3	120	1	60	-	-	-	-	-	-	-

NOTES:
1. PROVIDE WITH SPARK IGNITION, TEMPERATURE AND PRESSURE RELIEF VALVE AND DRAIN WITH CONDENSATE NEUTRALIZATION KIT.
2. PROVIDE WITH CONTROL THERMAL EXPANSION TANK, WATTS MODEL AND SCHEDULED WITH WATTS SCV SERVICE CHECK VALVE.
3. PROVIDE SEALED COMBUSTION WITH CONCENTRIC WALL OR ROOF VENT KIT

NOTES: A.

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	S.P. (IN W.G.)	FAN TYPE	SONES	RPM	DRIVE	HP	NOTES	ELECTRICAL									
												VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
EF-1	EXISTING	EXISTING	EXISTING	1225	0.5	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	A
EF-2	GREENHECK	G-099-VG	ROOF MOUNTED	525	0.75	BI	8.9	1467	DIRECT	1/4	1	115	1	60	2.9	4	15	-	P1-28	-	
KEF-1	ACCUREX	XCUE-140-VG	ROOF MOUNTED	2033	1.02	BI	12.7	1552	DIRECT	1	2	277	1	60	6.6	8.4	15	-	H-35	-	
KEF-2	ACCUREX	XRUBS-180-20	ROOF MOUNTED	4534	0.75	BI	21	1364	BELT	2	2	460	3	60	3.4	4.25	15	-	H-37,39,41	-	
KEF-3	ACCUREX	XCUE-140-VG	ROOF MOUNTED	1275	1.08	BI	11	1355	DIRECT	3/4	2	277	1	60	5.7	7.1	15	-	H-33	-	
KEF-4	ACCUREX	XCUE-160-VG	ROOF MOUNTED	2003	0.96	BI	13	1139	DIRECT	3/4	2	277	1	60	5.7	7.1	15	-	H-31	-	
KEF-5	ACCUREX	XCUE-160-VG	ROOF MOUNTED	2400	0.9	BI	14.4	1196	DIRECT	1	2	277	1	60	6.6	8.3	15	-	H-29	-	
KEF-6	ACCUREX	XCUE-130-VG	ROOF MOUNTED	1575	1.38	BI	14.8	1725	DIRECT	3/4	2	277	1	60	5.7	7.1	15	-	H-36	-	
KEF-7	ACCUREX	XCUE-130-VG	ROOF MOUNTED	1575	1.38	BI	14.8	1725	DIRECT	3/4	2	277	1	60	5.7	7.1	15	-	H-34	-	
KEF-8	ACCUREX	XCUE-130-VG	ROOF MOUNTED	1575	1.38	BI	14.8	1725	DIRECT	3/4	2	277	1	60	5.7	7.1	15	-	H-32	-	
KEF-9	ACCUREX	XCUE-130-VG	ROOF MOUNTED	1575	1.38	BI	14.8	1725	DIRECT	3/4	2	277	1	60	5.7	7.1	15	-	H-30	-	
KEF-10	ACCUREX	XCUE-099-VG	ROOF MOUNTED	750	1	BI	10.8	1725	DIRECT	1/4	2	277	1	60	2.4	3	15	-	H-27	-	

NOTES:
1. PROVIDE WITH 20" ROOF CURB, DISCONNECT SWITCH, EC MOTOR, SPEED CONTROLLER, BIRD SCREEN, AND BACKDRAFT DAMPER.
2. FAN PROVIDED BY OWNER.
3. EXISTING FAN TO REMAIN FROM BUILDING SHELL.

NOTES:
A. EXISTING EQUIPMENT FROM SHELL BUILDING.
B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTION TO MECHANICAL CONTRACTOR PROVIDED EQUIPMENT.

MAKE-UP AIR SUPPLY PACKAGE SCHEDULE

MARK NO.	MANUFACTURER	SUPPLY UNIT MODEL	SUPPLY AIRFLOW (CFM)	EXT. S.P. (IN W.G.)	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	SUPPLY FAN HP	RPM	NOTES	ELECTRICAL									
										VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
MAU-1	EXISTING	EXISTING	8935	0.5	800	736	7 1/2	1800	1	-	-	-	-	-	-	-	-	-	A
MAU-2	EXISTING	EXISTING	5000	0.5	400	368	5	1800	1	-	-	-	-	-	-	-	-	-	A

NOTES:
1. EXISTING MAKE-UP AIR UNIT TO REMAIN FROM SHELL BUILDING.

NOTES: A. EXISTING EQUIPMENT FROM SHELL BUILDING.

PLUMBING PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	USE	TYPE	FLOW (GPM)	HEAD (FT.)	RPM	NOTES	ELECTRICAL									
									VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
CP-1	BELL & GOSSETT	PL30B	RECIRC	INLINE	2	10	2460	1	120	1	60	-	-	-	-	-	-	-

NOTES:
1. PROVIDE WITH AQUASTAT AND AUTOMATIC TIMER KIT.

NOTES: A.

UNIT HEATER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	HEATING (ELEC.)		NOTES	ELECTRICAL									
					OUTPUT (MBH)	INPUT (KW)		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
UH-1	EXISTING	EXISTING	EXISTING	350	17	5	4	-	-	-	-	-	-	-	-	-	A
UH-2	EXISTING	EXISTING	EXISTING	350	17	5	4	-	-	-	-	-	-	-	-	-	A
UH-3	EXISTING	EXISTING	EXISTING	350	17	5	4	-	-	-	-	-	-	-	-	-	A
UH-4	BERKO	FFCH557	CEILING	300	17	5	1,2,3	277	1	60	18.1	22.6	25	30/2/NF	L-17	-	B

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH INTEGRAL THERMOSTAT.
3. PROVIDE WITH RECESSED MOUNTING KIT.
4. EXISTING UNIT HEATER TO REMAIN FROM SHELL BUILDING.

NOTES:
A. EXISTING EQUIPMENT FROM SHELL BUILDING.
B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTION TO MECHANICAL CONTRACTOR PROVIDED EQUIPMENT.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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L1# = a Project No. 25.TMR.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

MEP SCHEDULES

SHEET NUMBER

MEP200

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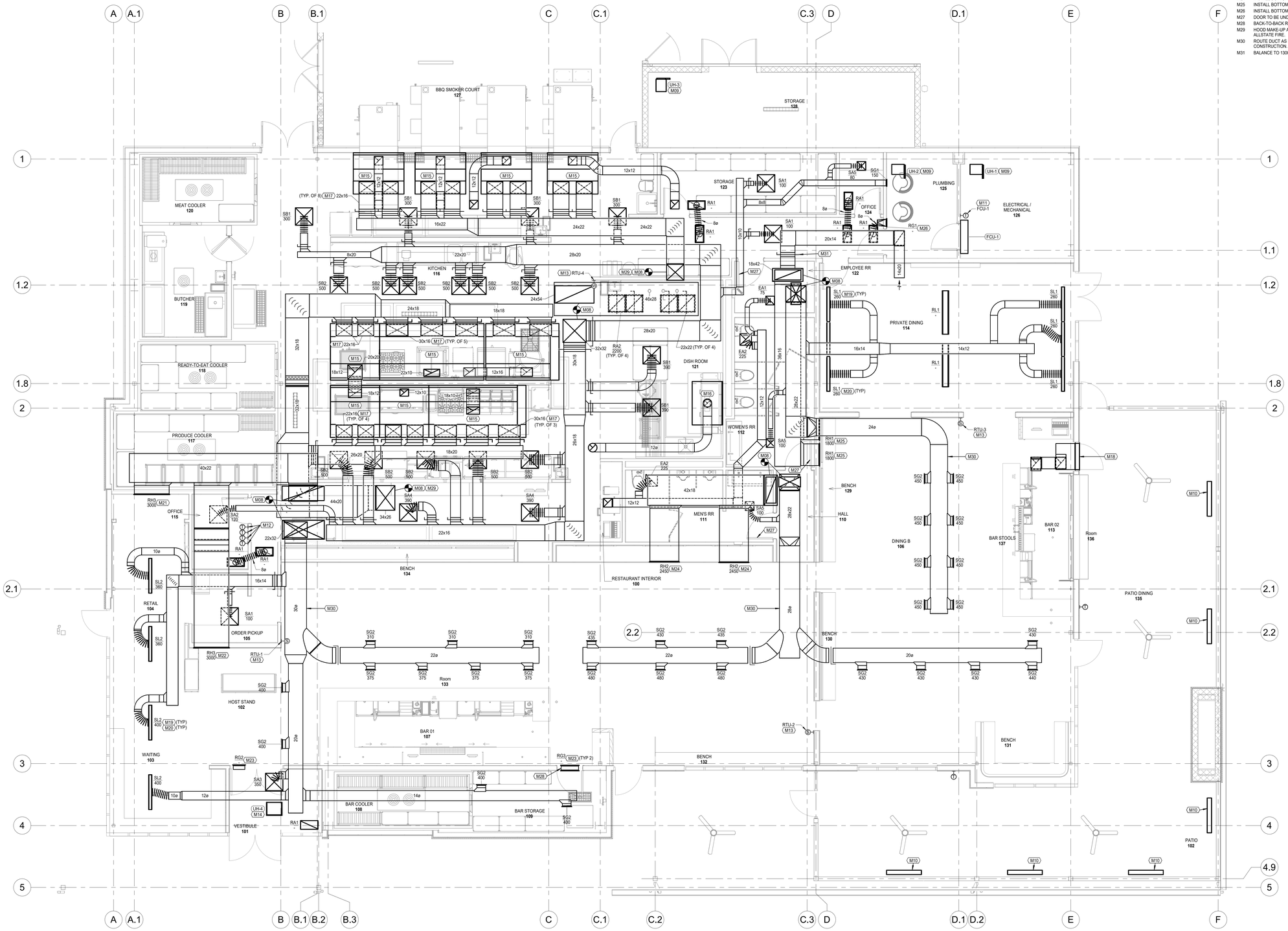

FLOOR PLAN NOTES

M08	CONNECT TO EXISTING DUCT DROP FROM ROOFTOP EQUIPMENT AND TRANSITION TO DUCT SIZE SHOWN.
M09	EXISTING UNIT HEATER TO REMAIN.
M10	EXISTING RADIANT HEATER TO REMAIN.
M11	PROVIDE WALL MOUNTED FAN COIL UNIT. PROVIDE THERMOSTAT MOUNTED AT 48" AFF. REFRIGERANT ROUTING TO BE APPROVED BY MANUFACTURER. REFER TO DETAILS FOR ADDITIONAL INFORMATION. ROUTE CONDENSATE TO FLOOR DRAIN IN WATER ENTRANCE ROOM.
M12	PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER. MOUNT 48" ABOVE FINISHED FLOOR. THERMOSTAT SHALL BE COMPATIBLE WITH COMBINATION REMOTE TEMPERATURE AND HUMIDITY SENSOR.
M13	PROVIDE COMBINATION REMOTE TEMPERATURE AND HUMIDITY SENSOR. MOUNT SENSOR 48" ABOVE FINISHED FLOOR. THE HUMIDITY SENSOR SHALL OPERATE THE REFRIGERATION SYSTEM AND INITIATE HOT GAS REHEAT AS REQUIRED TO MAINTAIN SPACE HUMIDITY AT 55% RH.
M14	PROVIDE CEILING RECESSED ELECTRIC UNIT HEATER.
M15	TYPE I GREASE EXHAUST HOOD AND DUCTWORK PROVIDED BY OWNER. COORDINATE DUCT ROUTING WITH ALLSTATE FIRE.
M16	TYPE II DISHWASHER HOOD AND DUCTWORK PROVIDED BY OWNER. COORDINATE DUCT ROUTING WITH ALLSTATE FIRE.
M17	BALANCE HOOD AIRFLOWS PER ACCUREX DRAWINGS.
M18	EXISTING EXHAUST LOUVER AND DUCTWORK FROM SHELL BUILDING TO REMAIN.
M19	COORDINATE INSTALLATION OF SLOT DIFFUSER WITH ARCHITECTURAL CEILING.
M20	WHERE DAMPERS ABOVE GYP CEILING ARE INACCESSIBLE, PROVIDE PRICE SOB INSULATED PLENUM WITH VCR/EC CABLE OPERATED DAMPER, OR EQUAL, FOR BALANCING PURPOSES.
M21	INSTALL BOTTOM OF RETURN GRILLE AT 10'-8" ABOVE FINISHED FLOOR.
M22	INSTALL BOTTOM OF RETURN GRILLE AT 12'-7" ABOVE FINISHED FLOOR.
M23	INSTALL BOTTOM OF RETURN GRILLE AT 12'-0" ABOVE FINISHED FLOOR.
M24	INSTALL BOTTOM OF RETURN GRILLE AT 10'-10" ABOVE FINISHED FLOOR.
M25	INSTALL BOTTOM OF RETURN GRILLE AT 8'-10" ABOVE FINISHED FLOOR.
M26	INSTALL BOTTOM OF RETURN GRILLE AT 9'-6" ABOVE FINISHED FLOOR.
M27	DOOR TO BE UNDERCUT MINIMUM 1" BY OTHERS.
M28	BACK-TO-BACK RETURN AIR GRILLES. PROVIDE LINED SHEETMETAL SLEEVE.
M29	HOOD MAKE-UP AIR DUCTWORK PROVIDED BY OWNER. COORDINATE DUCT ROUTING WITH ALLSTATE FIRE.
M30	ROUTE DUCT AS HIGH AS POSSIBLE AND COORDINATE WITH LIGHTING PRIOR TO CONSTRUCTION. TYPICAL OF ALL EXPOSED SUPPLY DUCTWORK.
M31	BALANCE TO 1300 CFM RETURN AIR.

PLAN

FLOOR PLAN - MECHANICAL

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

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LFA # or Project No. 25.TMH.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

STATE OF MISSOURI
NUMBER
2009035729
CHAD L. SMITH
11.17.2025

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FLOOR PLAN - MECHANICAL

SHEET NUMBER

M100

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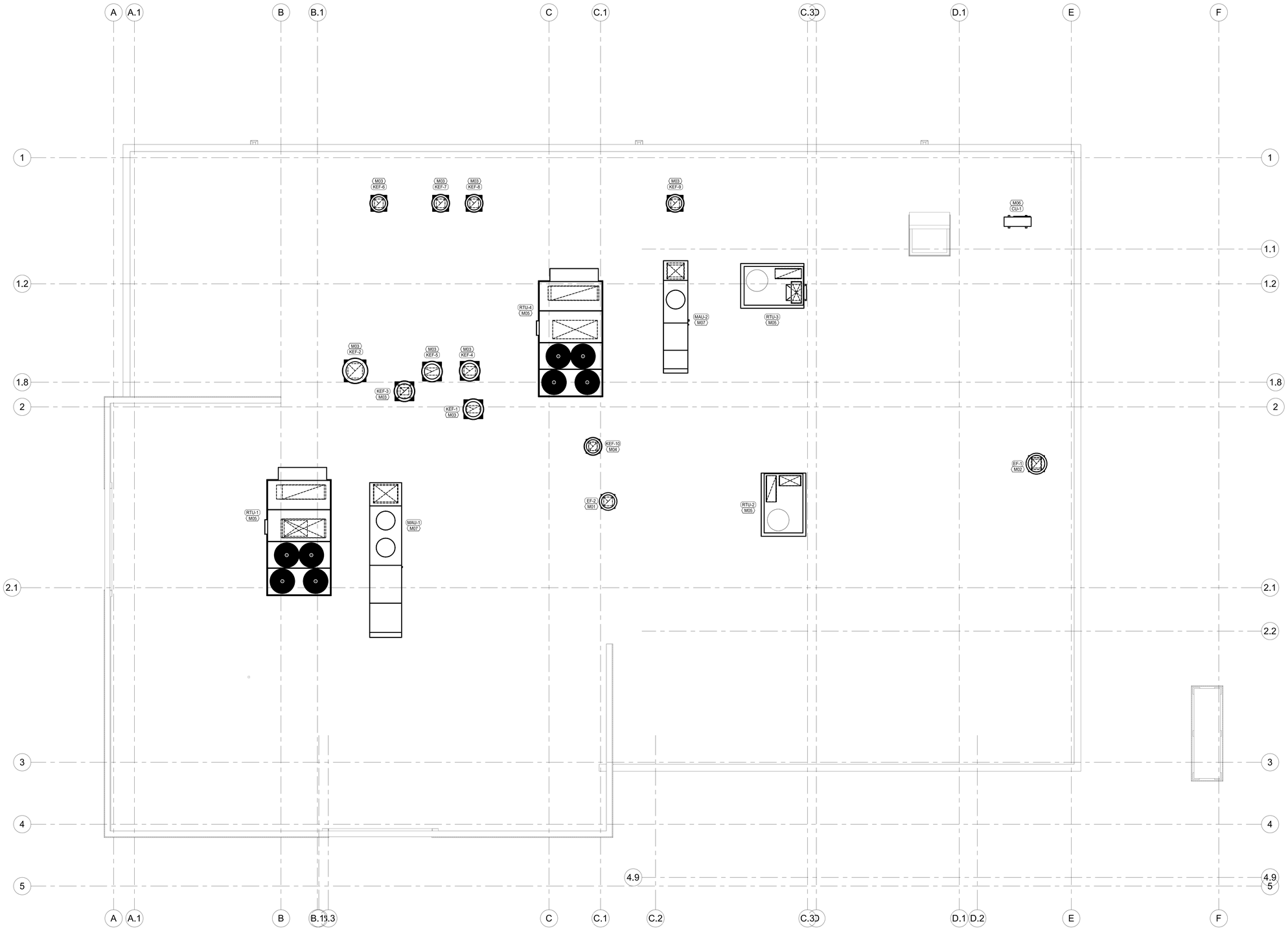
FLOOR PLAN NOTES

(M)

M01 PROVIDE ROOF MOUNTED EXHAUST FAN AND CURB.
M02 EXISTING ROOF MOUNTED EXHAUST FAN TO REMAIN.
M03 ROOF MOUNTED GREASE EXHAUST FAN AND CURB PROVIDED BY OWNER. COORDINATE FAN LOCATION WITH ALLSTATE FIRE.
M04 ROOF MOUNTED TYPE II EXHAUST FAN AND CURB PROVIDED BY OWNER. COORDINATE FAN LOCATION WITH ALLSTATE FIRE.
M05 EXISTING ROOFTOP UNIT TO REMAIN.
M06 PROVIDE CONDENSING UNIT ON ROOF MOUNTED ON EQUIPMENT SUPPORT RAILS. RAILS TO SPAN A MINIMUM OF TWO ROOF JOISTS. FASTEN TO UNIT LEVEL TO RAIL PER CONDENSING UNIT MANUFACTURER'S RECOMMENDATIONS. BOOTS AND CLAMPS FOR REFRIGERANT LINE ROOF PENETRATIONS. REFRIGERANT ROUTING TO BE APPROVED BY MANUFACTURER. CONTRACT WITH ROOFING CONTRACTOR TO FLASH AND SEAL SUPPORT RAIL TO MAINTAIN ROOFING WARRANTY. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
M07 EXISTING ROOF MOUNTED MAKE-UP AIR UNIT TO REMAIN.



PLAN
ROOF PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

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LFA Project No: 25.TMH.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

STATE OF MISSOURI
JEFFREY A. HOLLIS
NUMBER PE-2009032224
PROFESSIONAL ENGINEER
11.17.2025

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ISSUES AND REVISIONS

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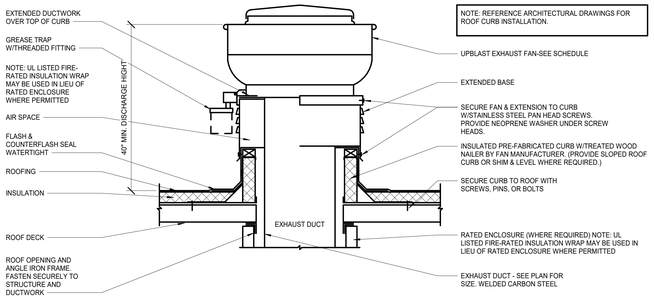
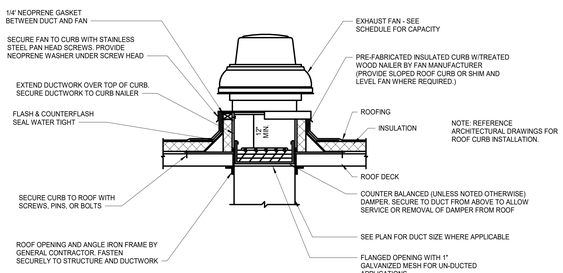
ROOF PLAN - MECHANICAL

SHEET NUMBER

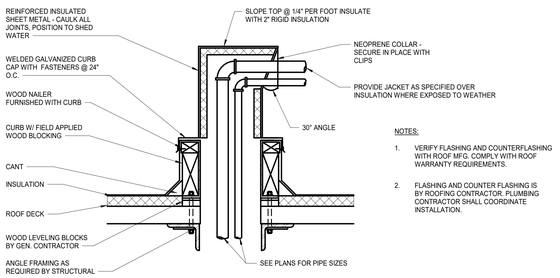
M101



ROOF UPBLAST EXHAUST FAN DETAIL
NOT TO SCALE



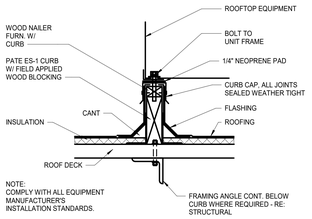
ROOF MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



NOTES:

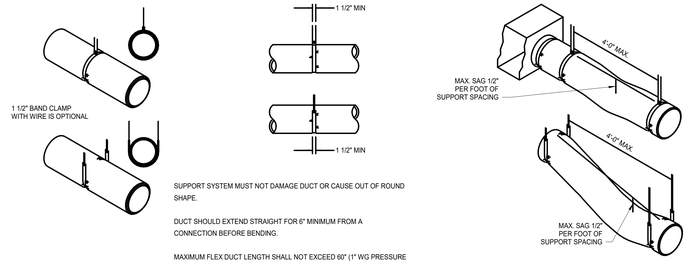
1. VERIFY FLASHING AND COUNTERFLASHING WITH ROOF MFG. COMPLY WITH ROOF WARRANTY REQUIREMENTS.
2. FLASHING AND COUNTER FLASHING IS BY ROOFING CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION.

MULTIPLE PIPE ROOF PENETRATIONS
NOT TO SCALE



NOTE:
COMPLY WITH ALL EQUIPMENT MANUFACTURER'S INSTALLATION STANDARDS.

EQUIPMENT ROOF RAIL DETAIL
NOT TO SCALE

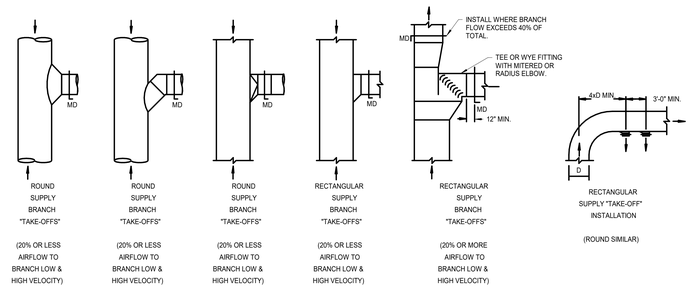


SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

DUCT SHOULD EXTEND STRAIGHT FOR 6" MINIMUM FROM A CONNECTION BEFORE BENDING.

MAXIMUM FLEX DUCT LENGTH SHALL NOT EXCEED 60" (1" WG PRESSURE OR LESS) OR 36" FOR PRESSURES GREATER THAN 1" WG.

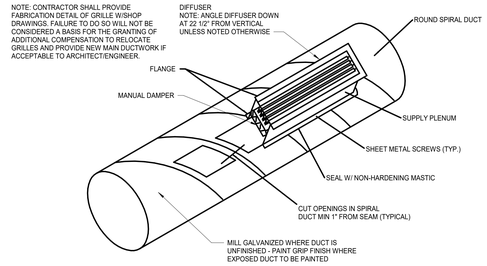
FLEXIBLE DUCT SUPPORT DETAIL
NOT TO SCALE



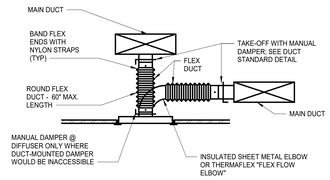
DUCT STANDARDS
NOT TO SCALE

NOTE: CONTRACTOR SHALL PROVIDE FABRICATION DETAIL OF GRILLE W/SHOP DRAWINGS. FAILURE TO DO SO WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION TO RELOCATE GRILLES AND PROVIDE NEW MAIN DUCTWORK IF ACCEPTABLE TO ARCHITECT/ENGINEER.

DIFFUSER
NOTE: ANGLE DIFFUSER DOWN AT 22 1/2° FROM VERTICAL UNLESS NOTED OTHERWISE

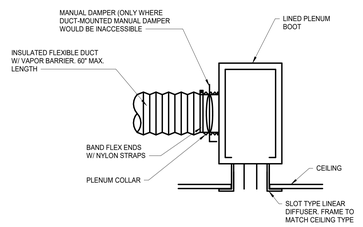


SPIRAL DUCT SUPPLY REGISTER DETAIL
NOT TO SCALE



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



LINEAR DIFFUSER DETAIL
NOT TO SCALE

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CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

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MECHANICAL DETAILS

SHEET NUMBER

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GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FRAME TYPE*	FACE SIZE (IN.)	NECK SIZE (IN.)	NO. OF SLOTS	ACTIVE LENGTH (FT.)	COLOR	NOTES
SA1	PRICE	SPD	SQUARE PLAQUE DIFFUSER	CEILING	LAY-IN	24x24	6			WHITE	1,2,3,4,5
SA2	PRICE	SPD	SQUARE PLAQUE DIFFUSER	CEILING	LAY-IN	24x24	8			WHITE	1,2,3,4,5
SA3	PRICE	SPD	SQUARE PLAQUE DIFFUSER	CEILING	LAY-IN	24x24	10			WHITE	1,2,3,4,5,6
SA4	PRICE	SPD	SQUARE PLAQUE DIFFUSER	CEILING	LAY-IN	24x24	12			WHITE	1,2,3,4,5
SA5	PRICE	SPD	SQUARE PLAQUE DIFFUSER	CEILING	LAY-IN	12x12	6			WHITE	1,2,3,4,5,6
SB1	PRICE	PDDR	PERFORATED DIFFUSER	CEILING	LAY-IN	24x24	12			WHITE	1,2,4
SB2	PRICE	PDDR	PERFORATED DIFFUSER	CEILING	LAY-IN	24x24	14			WHITE	1,2,4
SG1	PRICE	520	LOUVERED REGISTER	SIDEWALL	SURFACE	10x8	8x6			WHITE	4,6,7
SG2	PRICE	520	LOUVERED REGISTER	DUCT	SURFACE	14x10	12x8			MILL	6,7,14
SL1	PRICE	SDS100	LINEAR SLOT DIFFUSER	CEILING	SURFACE	SEE PLANS	10	3 (1")	4	BLACK	1,4,8,9,10,11,13
SL2	PRICE	SDS150	LINEAR SLOT DIFFUSER	CEILING	SURFACE	SEE PLANS	10	3 (1.5")	4	WHITE	1,4,8,9,10,11,13
RA1	PRICE	PDDR	PERFORATED GRILLE	CEILING	LAY-IN	24x12	22x10			WHITE	2,4,5
RA2	PRICE	PDDR	PERFORATED GRILLE	CEILING	LAY-IN	24x24	22x22			WHITE	2,4,5
RG1	PRICE	530	LOUVERED GRILLE	SIDEWALL	SURFACE	12x10	10x8			WHITE	4,6,7
RG2	PRICE	530	LOUVERED GRILLE	SIDEWALL	SURFACE	18x14	16x12			WHITE	4,7
RG3	PRICE	530	LOUVERED GRILLE	SIDEWALL	SURFACE	26x20	24x18			WHITE	4,7
RH1	PRICE	510Z	LOUVERED GRILLE	SIDEWALL	SURFACE	32x18	30x16			WHITE	4,7
RH2	PRICE	510Z	LOUVERED GRILLE	SIDEWALL	SURFACE	42x20	40x18			WHITE	4,7
RH3	PRICE	510Z	LOUVERED GRILLE	SIDEWALL	SURFACE	50x22	48x20			WHITE	4,7
RL1	PRICE	SDR100	LINEAR SLOT RETURN	CEILING	SURFACE	SEE PLANS	-	4 (1")	5	BLACK	4,9,12,15
EA1	PRICE	PDDR	PERFORATED GRILLE	CEILING	LAY-IN	12x12	6			WHITE	1,2,4,5,6,16
EA2	PRICE	PDDR	PERFORATED GRILLE	CEILING	LAY-IN	16x16	10			WHITE	1,2,4,5,6,16

NOTES:
1. BRANCH DUCT SIZE SHALL BE THE SAME AS THE NECK SIZE UNLESS OTHERWISE NOTED.
2. FRAME TYPE TO MATCH CEILING CONSTRUCTION - COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
3. 4-WAY THROW PATTERN UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
4. PROVIDE WITH BAKED ENAMEL FINISH. COORDINATE WITH ARCHITECT FOR COLOR SELECTION.
5. PROVIDE WITH PRICE "AMF" RAPID MOUNT FRAME TO CREATE LAY-IN APPLICATION WHEN INSTALLED IN A HARD CEILING.
6. PROVIDE WITH OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.
7. FRONT BLADES SHALL BE PARALLEL TO THE LONG DIMENSION.
8. PROVIDE WITH ICE TONG PATTERN CONTROLLERS.
9. PROVIDE WITH EXPOSED FLANGE FRAME FOR SURFACE MOUNT INSTALLATION.
10. PROVIDE WITH MANUFACTURER'S INSULATED PLENUM.
11. PROVIDE WITH MANUFACTURER'S BLANK OFF AT ALL SECTIONS OF LINEAR SLOT NOT USED FOR SUPPLY.
12. PROVIDE WITHOUT PATTERN CONTROLLERS FOR RETURN AIR APPLICATION.
13. PROVIDE WITH VCRBEC CABLE OPERATED DAMPER IN PLENUM INLET, OPERABLE FROM FACE OF DIFFUSER.
14. PROVIDE WITH GALVANIZED FINISH. COORDINATE WITH ARCHITECT TO FIELD PAINT.
15. PROVIDE WITH MANUFACTURER'S LINEAR RETURN BAFFLE.
16. PROVIDE WITH SQUARE TO ROUND ADAPTER.

*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.

AIR BALANCE SCHEDULE

BUILDING

MARK	SUPPLY AIRFLOW (CFM)	OUTDOOR AIRFLOW (CFM)	OA RATIO (%)	EXHAUST AIRFLOW (CFM)
RTU-1	6000	1800	30%	
RTU-2	5000	1500	30%	
RTU-3	5000	1500	30%	
RTU-4	8800	2400	27%	
MAU-1	8935	8935	100%	
MAU-2	5000	5000	100%	
EF-1				1225
EF-2				525
KEF-1				2033
KEF-2				4534
KEF-3				1275
KEF-4				2003
KEF-5				2400
KEF-6				1575
KEF-7				1575
KEF-8				1575
KEF-9				1575
KEF-10				750
SUBTOTAL	**38735**	**21135**	**--**	**21045**
POSITIVE AIRFLOW		**90**		
PERCENT POSITIVE OF TOTAL AIRFLOW		**0.00232348**		

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 IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO 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 ARCHITECTS 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 AIR BALANCE ALL GRILLES TO CFM'S SHOWN ON PLANS.

G. MECHANICAL CONTRACTOR SHALL PROVIDE NEW FILTERS ON ALL AIR HANDLING EQUIPMENT WHICH IS IN PROJECT SCOPE OF WORK PRIOR TO BALANCING. PROVIDE TEMPORARY FILTERS ON RETURN AIR OPENINGS DURING CONSTRUCTION.

H. 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.

I. 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.

J. 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.

FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

MECHANICAL SYMBOLS

- EXISTING DUCTWORK TO BE REMOVED
- EXISTING DUCT TO REMAIN
- NEW DUCTWORK
- FLEX DUCT
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- R/D — RISE OR DROP IN DUCT
- SUPPLY DUCT DOWN
- SUPPLY DUCT UP
- RETURN DUCT DOWN
- RETURN DUCT UP
- EXHAUST DUCT DOWN
- EXHAUST DUCT UP
- WALL MOUNTED DIFFUSER/GRILLE
- MANUAL VOLUME DAMPER
- THERMOSTAT
- SENSOR
- ? — 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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CLIENT

Q39

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Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
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SHEET NAME
MECHANICAL SCHEDULES, GENERAL NOTES, & SYMBOLS

SHEET NUMBER
M300

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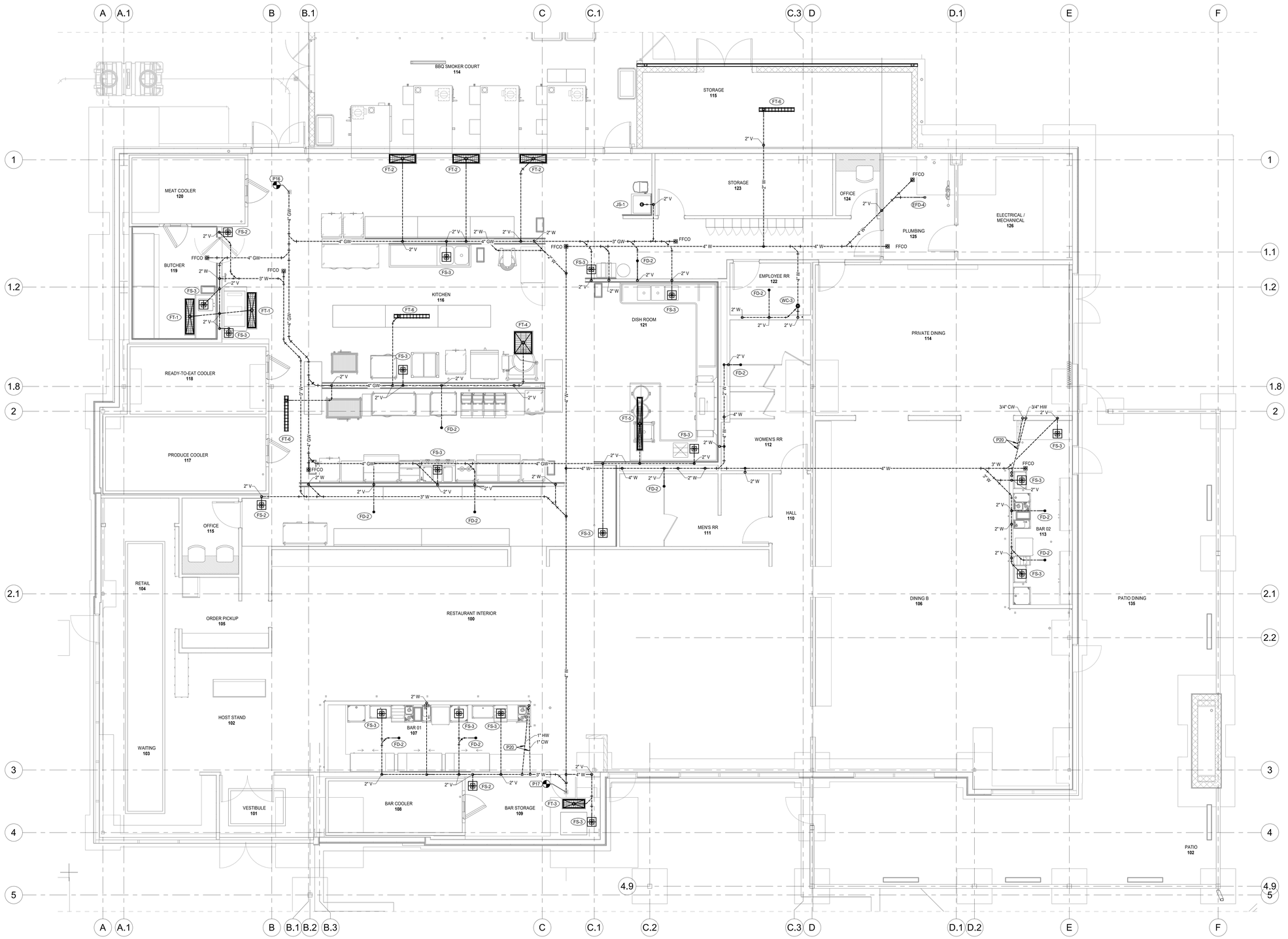
FLOOR PLAN NOTES

P16 CONNECT TO GREASE WASTE STUBOUT BELOW SLAB.
P17 CONNECT TO SANITARY WASTE STUBOUT BELOW SLAB.
P20 ROUTE WATER PIPING BELOW SLAB, RE: DETAIL.



PLAN **UNDERGROUND FLOOR PLAN - PLUMBING**
SCALE: 1/4" = 1'-0"

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OLDHAM VILLAGE

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STATE OF MISSOURI — JOSEPH A. WILLIAMS — NUMBER PE-2009032218 — PROFESSIONAL ENGINEER
11.17.2025

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UNDERGROUND FLOOR PLAN - PLUMBING

SHEET NUMBER

P100

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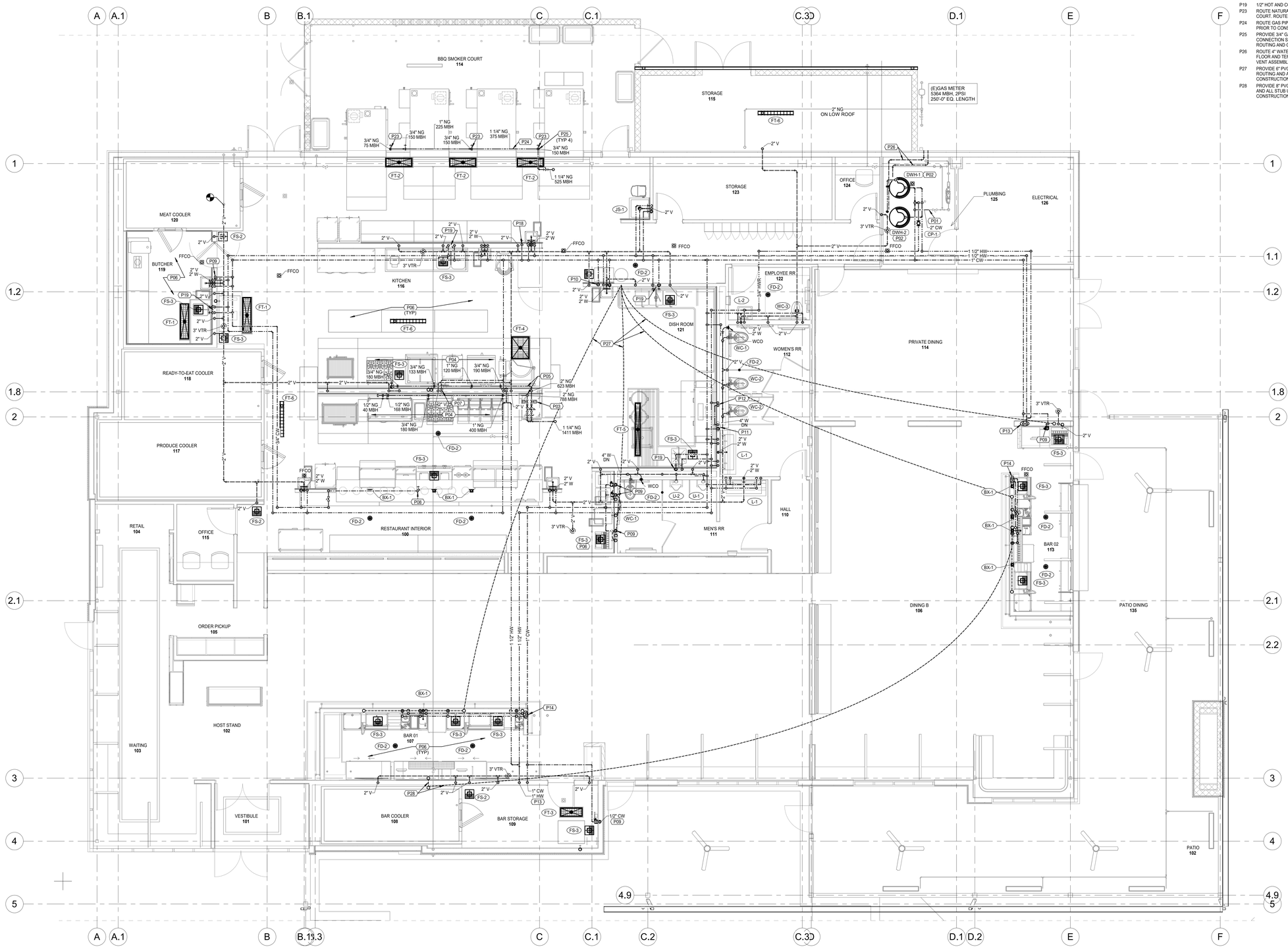
FLOOR PLAN NOTES

P

P01	CONNECT TO CORE/SHELL COLD WATER STUBOUT.
P02	NEW GAS-FIRED WATER HEATERS PIPED IN PARALLEL. ROUTE WASTE FROM T&P AND DRAIN VALVE TO NEAREST FLOOR DRAIN AND INDIRECT WASTE.
P03	ELECTRONIC SOLENOID VALVE PROVIDED WITH HOOD AND INSTALLED BY PLUMBING CONTRACTOR. INTERLOCK WITH HOOD FIRE SUPPRESSION SYSTEM.
P04	CONNECT TO COOKLINE EQUIPMENT WITH GAS COCK AND FLEXIBLE HOSE CONNECTOR.
P05	ROUTE NATURAL GAS PIPING DOWN AND OVER FULL SIZE AND TIGHT TO WALL BEHIND COOKLINE WITH DIRT LEG.
P06	ROUTE DRAINS FROM KITCHEN FIXTURES AND/OR EQUIPMENT TO NEAREST FLOOR SINK AND INDIRECT WASTE. REFER TO KITCHEN PLANS FOR ADDITIONAL INFORMATION.
P07	3/4" COLD WATER DOWN TO WATER FILTER (BY VENDOR). EXTEND PIPING FROM FILTER TO COMBI OVEN PER MANUFACTURER'S RECOMMENDATIONS.
P08	1/2" COLD WATER OVER TO HOT FOOD WELL IN PARTIAL HEIGHT WALL.
P09	1/2" COLD WATER DOWN TO WATER FILTER (BY VENDOR). EXTEND PIPING FROM FILTER TO BEVERAGE EQUIPMENT INLET PER MANUFACTURER'S RECOMMENDATIONS. REFER TO KITCHEN PLANS FOR ADDITIONAL INFORMATION.
P10	1/2" COLD WATER DOWN TO BAG-N-BOX SODA SYSTEM WITH WATTS SD3 BFP IN ACCESSIBLE LOCATION. ALL PIPING DOWNSTREAM OF BFP SHALL BE STAINLESS STEEL OR NSF RATED PLASTIC TUBING. COPPER PIPING SHALL NOT BE PERMITTED. ROUTE DRAIN FROM BFP TO FLOOR SINK AND INDIRECT WASTE.
P11	1/2" HOT AND COLD WATER DOWN IN WALL. CONNECT 1/2" HOT AND COLD WATER TO INLET OF DISHMACHINE. AND 1/2" COLD WATER TO DRAIN TEMPERING VALVE.
P12	1/2" HOT WATER DOWN TO BOOSTER HEATER. ROUTE HOT WATER FROM BOOSTER OUTLET TO DISHMACHINE. REFER TO KITCHEN PLANS FOR ADDITIONAL INFORMATION.
P13	HOT AND COLD WATER PIPING DOWN IN WALL AND BELOW SLAB. RE: UNDERSLAB PLAN FOR CONTINUATION.
P14	HOT AND COLD WATER UP FROM BELOW SLAB. ROUTE FULL SIZE TIGHT TO WALL BEHIND EQUIPMENT AND MAKE CONNECTIONS TO FIXTURES AND EQUIPMENT AS REQUIRED.
P18	1/2" COLD WATER DOWN TO HOSE REEL (BY OTHERS). REFER TO KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
P19	1/2" HOT AND COLD WATER DOWN TO KITCHEN SINK FAUCET (BY OTHERS).
P23	ROUTE NATURAL GAS PIPING THRU EXTERIOR WALL ABOVE CEILING AND INTO SMOKER COURT. ROUTE DOWN TIGHT TO EXTERIOR WALL TO 12" ABOVE GRADE.
P24	ROUTE GAS PIPE BELOW SMOKERS TIGHT TO WALL. CONFIRM FINAL HEIGHT WITH OWNER PRIOR TO CONSTRUCTION.
P25	PROVIDE 3/4" GAS CONNECTION TO SMOKER WITH GAS COCK AND DIRT LEG. SMOKER CONNECTION SHALL BE AROUND SIX FEET AWAY FROM THE BUILDING. COORDINATE PIPE ROUTING AND CONNECTION WITH SMOKERS WITH OWNER PRIOR TO DOING ANY WORK.
P26	ROUTE 4" WATER HEATER INTAKE AND EXHAUST SEPERATELY 9 FEET ABOVE FINISHED FLOOR AND TERMINATE THROUGH SINGLE EXTERIOR WALL OPENING USING CONCENTRIC VENT ASSEMBLY.
P27	PROVIDE 6" PVC 24" SWEEPING RADIUS UNDERGROUND BEVERAGE LINE. COORDINATE ROUTING AND ALL STUB UP LOCATIONS WITH FOOD SERVICE CONTRACTOR PRIOR TO CONSTRUCTION.
P28	PROVIDE 8" PVC 24" SWEEPING RADIUS UNDERGROUND BEER LINE. COORDINATE ROUTING AND ALL STUB UP LOCATIONS WITH FOOD SERVICE CONTRACTOR PRIOR TO CONSTRUCTION.



PLAN
FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

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LFA # Project No: 25.TMH.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

STATE OF MISSOURI
TIMOTHY M. HOLLAND
NUMBER PE-2009022236
PROFESSIONAL ENGINEER
11.17.2025

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NUMBER	DATE	DESCRIPTION
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SHEET NAME

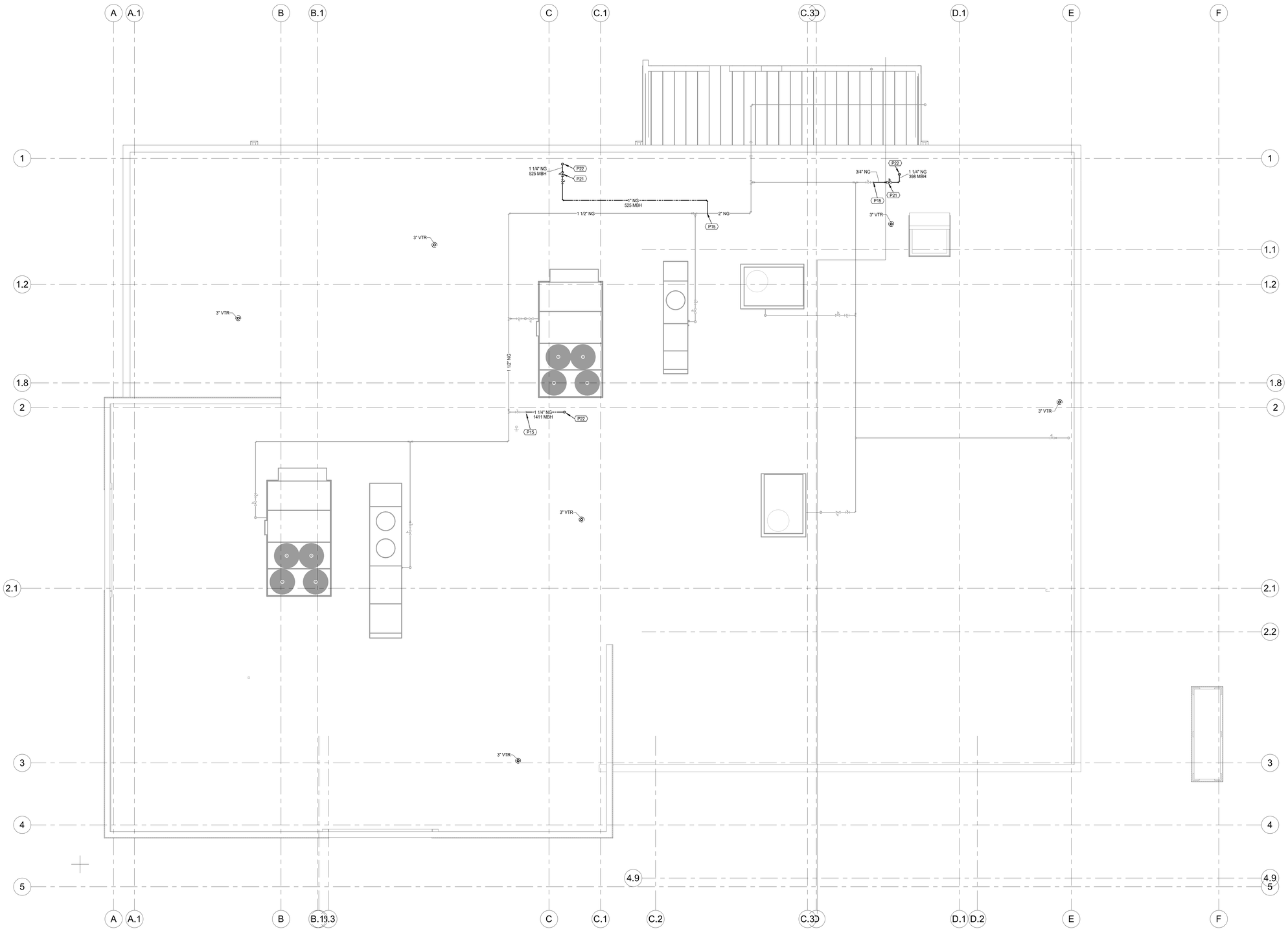
FLOOR PLAN - PLUMBING

SHEET NUMBER

P101

FLOOR PLAN NOTES

P15 CONNECT TO NATURAL GAS STUBOUT ON ROOF.
P21 PROVIDE PRESSURE REGULATOR ON ROOF. INLET: 2PSI, OULET: 10"WC.
P22 NATURAL GAS PIPING DOWN THRU ROOF. COORDINATE PENETRATION WITH ROOF MANUFACTURER.



PLAN
ROOF PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

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JOSEPH
NUMBER
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PROFESSIONAL ENGINEER
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ROOF PLAN - PLUMBING

SHEET NUMBER

P102

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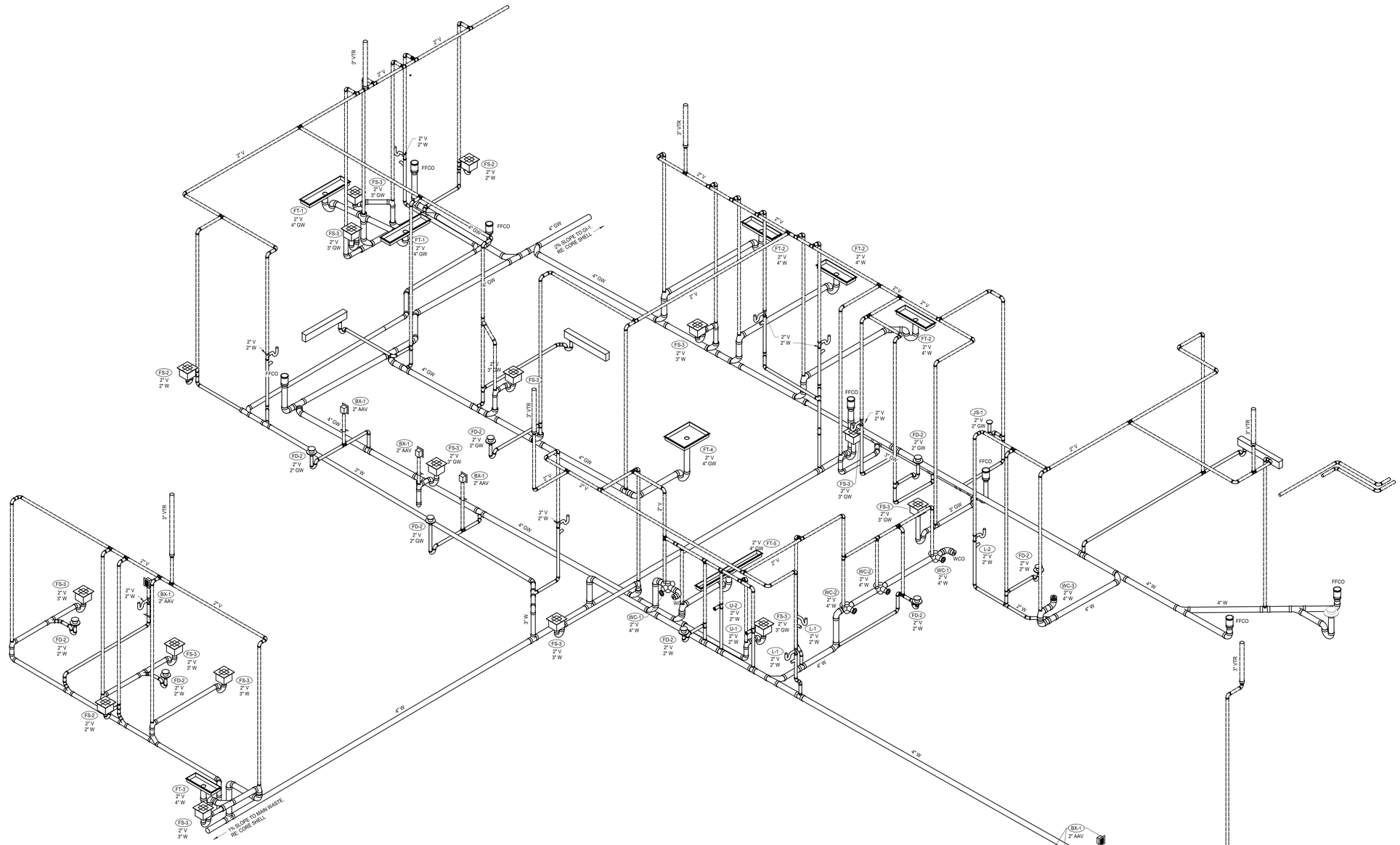

DWV RISER DIAGRAM

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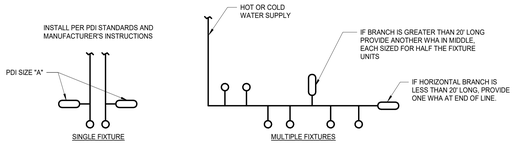
PLUMBING RISER

SHEET NUMBER

P200

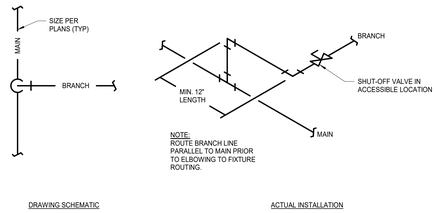


PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
AA	1/2"	1-3
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1 1/4"	61-113
E	1 1/2"	114-154
F	2"	155-330

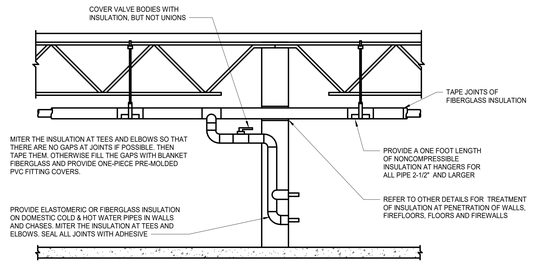
FIXTURE	TYPE OF SUPPLY CONTROL	WEIGHT IN FIXTURE - UNITS					
		PUBLIC			PRIVATE		
		TOTAL	C.W.	H.W.	TOTAL	C.W.	H.W.
WATER CLOSET 1.66 GPF	FLUSH VALVE	8	8	-	5	5	-
WATER CLOSET 1.66 GPF	FLUSH TANK	5	5	-	2.5	2.5	-
STALL OR WALL URINAL	FLUSH VALVE 1.06 GPF	4	4	-	-	-	-
LAVATORY	FAUCET	2	1.5	1.5	1	1	1
BATHROOM GROUP	FLUSH VALVE CLOSET	-	-	-	8	8	3
BATHROOM GROUP	FLUSH TANK CLOSET	-	-	-	6	6	3
SERVICE SINK	FAUCET	3	3	3	-	-	-
DISHWASHER	EQUIPMENT CONNECTION	1.4	-	1.4	1.4	-	1.4
ICE MAKER	EQUIPMENT CONNECTION	1	1	-	1	1	-

DO NOT PROVIDE AIR CHAMBERS. PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010, AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS PER THE TABLES SHOWN ABOVE, BUT NOT LESS THAN WATER CONNECTION SIZE.

WATER HAMMER ARRESTER DETAIL
NOT TO SCALE

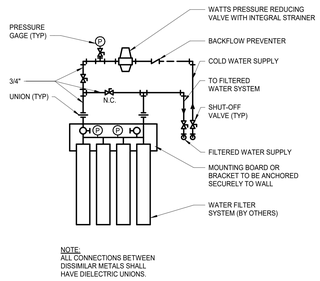


TYPICAL BRANCH LINE TAKEOFF DETAIL
NOT TO SCALE



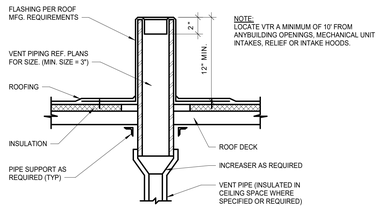
PROVIDE FIBERGLASS OR ELASTOMERIC INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL SIZES OF DOMESTIC WATER PIPING. PROVIDE FIBERGLASS OR ELASTOMERIC INSULATION ON ALL SIZES OF STORM DRAIN PIPING. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. PROVIDE INSULATION 1/4" LARGER ON PIPE WITH HEAT TRACING.

PIPE INSULATION DETAIL
NOT TO SCALE

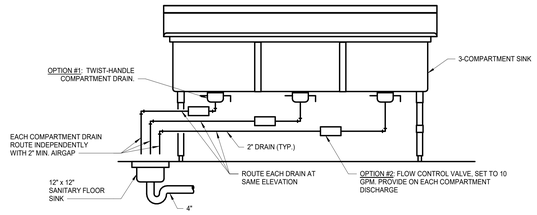


NOTE:
ALL CONNECTIONS BETWEEN DISSIMILAR METALS SHALL HAVE DIELECTRIC UNIONS.

WATER FILTER DETAIL
NOT TO SCALE



VENT THRU ROOF DETAIL
NOT TO SCALE



WASHER BOX DETAIL
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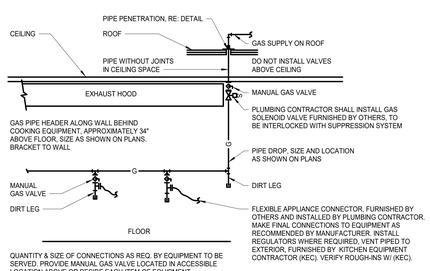


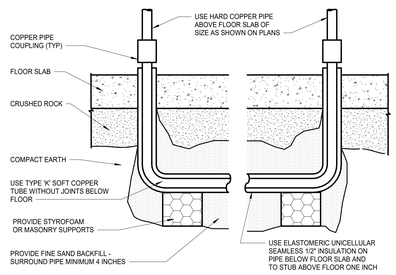
QUANTITY & SIZE OF CONNECTIONS AS REQ. BY EQUIPMENT TO BE SERVED. PROVIDE MANUAL GAS VALVE LOCATED IN ACCESSIBLE LOCATION ABOVE OR BESIDE EACH ITEM OF EQUIPMENT.

COOKING APPLIANCE GAS PIPING DETAIL
NOT TO SCALE

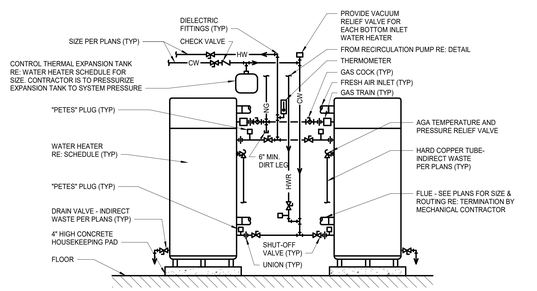
NOTES:

1. IF FLOOR SLAB IS EXISTING, SAW CUT, EXCAVATE, BACKFILL, REPAIR VAPOR BARRIER, PATCH CONCRETE FLOOR. PIPE SHALL HAVE LONG RADIUS TURNS WITHOUT KINKS.THERE SHALL BE NO CONTACT OF COPPER TUBE WITH OTHER PIPE, CONDUIT, OR REINFORCING STEEL.

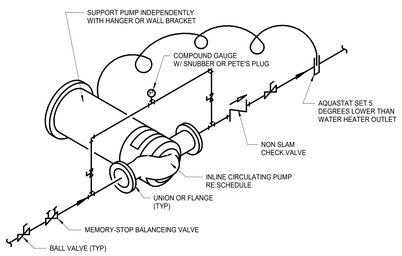
2. IF HOT AND COLD WATER PIPES ARE INSTALLED IN SAME TRENCH, SEPARATE THEM BY A MINIMUM OF TWELVE INCHES.



WATER PIPE UNDER SLAB DETAIL
NOT TO SCALE



SEALED COMBUSTION GAS WATER HEATER DETAIL
NOT TO SCALE



CIRCULATING PUMP DETAIL
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PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
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SHEET NAME

PLUMBING DETAILS

SHEET NUMBER

P300

NATURAL GAS SCHEDULE

TAG	FIXTURE	CONNECTED LOAD (MBH)
	MECHANICAL EQUIPMENT	
RTU-1	*ROOF TOP UNIT*	400
RTU-2	*ROOF TOP UNIT*	250
RTU-3	*ROOF TOP UNIT*	250
RTU-4	*ROOF TOP UNIT*	400
MAU-1	*MAKEUP AIR UNIT*	800
MAU-2	*MAKEUP AIR UNIT*	400
GEH-1	*RADIANT HEATER*	50
GEH-2	*RADIANT HEATER*	50
GEH-3	*RADIANT HEATER*	50
GEH-4	*RADIANT HEATER*	50
GEH-5	*RADIANT HEATER*	50
GEH-6	*RADIANT HEATER*	50
	MECHANICAL EQUIPMENT TOTAL:	**2800**
	PLUMBING EQUIPMENT	
DWH-1	GAS-FIRED WATER HEATER	199
DWH-2	GAS-FIRED WATER HEATER	199
	PLUMBING EQUIPMENT TOTAL:	**398**
	KITCHEN EQUIPMENT	
K15	GRIDDLE	168
K17	6-BURNER RANGE	180
K21	FRYER	400
K23	SALAMANDER	40
K32	TILT KETTLE	190
K35	6-BURNER RANGE	180
K38	CONVECTION OVEN	120
K39	COMBI-OVEN	133
	KITCHEN EQUIPMENT TOTAL:	**1411**
	MISC EQUIPMENT	
K52	SMOKER (BY OTHERS)	75
K84	SMOKER (BY OTHERS)	150
K84	SMOKER (BY OTHERS)	150
K84	SMOKER (BY OTHERS)	150
	FIREPLACE	230
	MISC EQUIPMENT TOTAL:	**755**
	TOTAL GAS LOAD	5364

NOTES:

*EQUIPMENT INSTALLED UNDER CORE/SHELL SCOPE

INTERIOR GAS PIPING SIZED PER TABLE 402.4(5) WITH A TOTAL DEVELOPED LENGTH OF 250'-0" AND A SERVICE PRESSURE OF 2 PSI.

SET PRESSURE REGULATORS TO 8" W.C. OR AS REQUIRED BY EQMT MANUFACTURER.

PLUMBING FIXTURE SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	MINIMUM CONNECTION SIZE			
					CW	HW	WASTE	VENT
WC-1	WATER CLOSET (ACCESSIBLE)	AMERICAN-STANDARD	2257.101 "AFWALL"	WALL MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, ELONGATED BOWL, WALL HUNG, 1-1/2" TOP SPUD. SLOAN "ROYAL" 111-1.28 (1.28 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: CHURCH 9500SSCT WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, AND J. R. SMITH WATER CLOSET SUPPORT. NOTE: MOUNT FIXTURE RIM 17" ABOVE FINISHED FLOOR AND FLUSH VALVE TO WIDE SIDE OF FIXTURE.	1"	-	4"	2"
WC-2	WATER CLOSET	AMERICAN-STANDARD	2257.101 "AFWALL"	WALL MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, ELONGATED BOWL, WALL HUNG, 1-1/2" TOP SPUD. SLOAN "ROYAL" 111-1.28 (1.28 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: CHURCH 9500SSCT WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, AND J. R. SMITH WATER CLOSET SUPPORT. NOTE: MOUNT FIXTURE RIM 15" ABOVE FINISHED FLOOR.	1"	-	4"	2"
WC-3	WATER CLOSET (ACCESSIBLE)	AMERICAN-STANDARD	3043.001 "MADERA"	FLOOR MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, FULLY GLAZED 2" TRAP WAY, ELONGATED BOWL, WITH 1-1/2" TOP SPUD, 16-1/2" RIM HEIGHT. SLOAN "ROYAL" 111-1.28 (1.28 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: CHURCH 9500SSCT WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, BOLTS AND CAPS. NOTE: MOUNT FLUSH VALVE TO WIDE SIDE OF FIXTURE.	1"	-	4"	2"
U-1	URINAL (ACCESSIBLE)	AMERICAN-STANDARD	6590.001 "WASHBROOK"	WHITE VITREOUS CHINA, WALL-HUNG, HIGH EFFICIENCY WASHOUT FLUSH ACTION, INTEGRAL FLUSHING RIM, 3/4" TOP SPUD, 2" OUTLET. SLOAN "ROYAL" 186-0.5 (0.5 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: J. R. SMITH URINAL SUPPORT. NOTE: MOUNT FIXTURE RIM 17" ABOVE FINISHED FLOOR.	3/4"	-	2"	1-1/2"
U-2	URINAL	AMERICAN-STANDARD	6590.001 "WASHBROOK"	WHITE VITREOUS CHINA, WALL-HUNG, HIGH EFFICIENCY WASHOUT FLUSH ACTION, INTEGRAL FLUSHING RIM, 3/4" TOP SPUD, 2" OUTLET. SLOAN "ROYAL" 186-0.5 (0.5 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: J. R. SMITH URINAL SUPPORT. NOTE: MOUNT FIXTURE RIM 24" ABOVE FINISHED FLOOR.	3/4"	-	2"	1-1/2"
L-1	LAVATORY	TRUEFORM CONCRETE	FLO-60V-ADA	60"x21" CONCRETE TROUGH SINK WITH TWO (2) SINGLE FAUCET HOLES AND ONE (1) CONCEALED DRAIN. WALL HUNG WITH INCLUDED MOUNTING BRACKETS. COORDINATE COLOR WITH ARCHITECT. (2) DELTA 810DPA50-BL "DRIFTEX" DECK MOUNTED, SINGLE HOLE FAUCETS WITH MATTE BLACK FINISH, HARDWIRE OPERATION, ELECTRONIC PROXIMITY SENSOR OPERATION, AND LAMINAR 0.5 GPM FLOW RATE. PROVIDE #0632074 24VAC TRANSFORMER FOR UP TO 5 FAUCETS. ACCESSORIES: PROVIDE TWO (2) LEONARD 170-LF LEAD FREE BRONZE THERMOSTATIC MIXING VALVES WITH 0.25 GPM MINIMUM FLOW RATE, INTEGRAL CHECK VALVES, DISCHARGE SET AT 105°F. MOUNTED DOWNSTREAM OF FIXTURE STOPS, WITH HOT AND COLD WATER PIPED TO VALVE, TEMPERED WATER TO LAVATORY. CHICAGO FAUCETS MODEL 337-XCP OFFSET GRID DRAIN, 1-1/4" X 1-1/2" 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT AND CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS. PROVIDE WITH FULLY MOLDED FLEXIBLE VINYL INSULATION KIT TO COVER TRAP, SUPPLIES AND STOPS, TRUBRO E-Z LAV GUARD. NOTE: MOUNT FIXTURE RIM 34" ABOVE FLOOR.	1/2"	1/2"	1-1/2"	1-1/2"
L-2	LAVATORY (ACCESSIBLE)	AMERICAN-STANDARD	"LUCERNE" 0356.921 (SINGLE HOLE)	WALL HUNG, VITREOUS CHINA, 20" X 18", FRONT OVERFLOW, INTEGRAL BACK. CHICAGO FAUCETS MODEL 2200-E289SABCP DECK MOUNTED, SINGLE HOLE CERAMIC DISC MIXING FAUCET WITH 4-3/4" SPOUT WITH SINGLE LEVER HANDLE AND VANDAL RESISTANT NON-AERATING OUTLET (0.5 GPM). ACCESSORIES: PROVIDE LEONARD 170-LF LEAD FREE BRONZE THERMOSTATIC MIXING VALVE WITH 0.25 GPM MINIMUM FLOW RATE, INTEGRAL CHECK VALVES, DISCHARGE SET AT 105 F, MOUNTED DOWNSTREAM OF FIXTURE STOPS, WITH HOT AND COLD WATER PIPED TO VALVE, TEMPERED AND COLD WATER TO LAVATORY. CHICAGO FAUCETS MODEL 337-XCP OFFSET GRID DRAIN, 1-1/4" X 1-1/2" 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT AND CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS. PROVIDE WITH FULLY MOLDED FLEXIBLE VINYL INSULATION KIT TO COVER TRAP, SUPPLIES AND STOPS, TRUBRO E-Z LAV GUARD. NOTE: MOUNT FIXTURE RIM 34" ABOVE FLOOR.	1/2"	1/2"	1-1/2"	1-1/2"
JS-1	JANITOR SINK	STERN-WILLIAMS	MTB-2424	SIZE 24" X 24" X 10", TERRAZZO SERVICE SINK WITH CAST BRASS DRAIN, STAINLESS STEEL STRAINER, 3" DRAIN CONNECTION. CHICAGO FAUCETS MODEL 897-CCP WITH QUATURN OPERATING CARTRIDGE, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 3/4" MALE HOSE THREAD OUTLET, 369 LEVER HANDLES, FLANGED ADJUSTABLE SUPPLY ARM AND INTEGRAL SUPPLY STOPS AND CHECK VALVES. ACCESSORIES: V-70 EXTRUDED VINYL BUMPER GUARDS ON EXPOSED SIDES, T-35 36" RUBBER HOSE WITH STAINLESS STEEL WALL BRACKET.	1/2"	1/2"	3"	2"
FD-2	FLOOR DRAIN	SIOUX CHIEF	833-225NR (ROUND) 833-225NQ (SQUARE)	GENERAL PURPOSE, CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, ROUND NICKEL BRONZE STRAINER, AND SEEPAGE OPENINGS. OUTLET SIZE PER PLANS. PROVIDE WITH SQUARE GRATE WHERE DRAIN IS INSTALLED IN TILE FLOORS. NOTE: PROVIDE WITH TRAP PRIMER CONNECTION WHERE REQUIRED BY LOCAL CODE OR AS INDICATED ON DRAWINGS.	-	-	2"	1-1/2"
FS-2	SANITARY FLOOR SINK	J.R. SMITH	3100Y	MEDIUM CAPACITY SANITARY FLOOR SINK, 8½" ROUND TOP, 6" DEEP CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE GRATE, ALUMINUM DOME STRAINER, ANCHOR FLANGE, SEEPAGE HOLES, FLASHING CLAMP. NO HUB OUTLET. PROVIDE 3/4 TOP WHERE DRAIN RECEIVES INDIRECT WASTE.	-	-	2"	2"
FS-3	SANITARY FLOOR SINK	J.R. SMITH	3100Y	MEDIUM CAPACITY SANITARY FLOOR SINK, 8½" ROUND TOP, 6" DEEP CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE GRATE, ALUMINUM DOME STRAINER, ANCHOR FLANGE, SEEPAGE HOLES, FLASHING CLAMP. NO HUB OUTLET. PROVIDE 3/4 TOP WHERE DRAIN RECEIVES INDIRECT WASTE.	-	-	3"	2"
FT-1	FLOOR TROUGH	IMC/TEDDY	FT-1248-SG	12"x48"x4" STAINLESS STEEL FLOOR TROUGH WITH GRATE AND PERFORATED WASTE BASKET.	-	-	4"	2"
FT-2	FLOOR TROUGH	IMC/TEDDY	FT-1236-SG	12"x36"x4" STAINLESS STEEL FLOOR TROUGH WITH GRATE AND PERFORATED WASTE BASKET.	-	-	4"	2"
FT-3	FLOOR TROUGH	IMC/TEDDY	FT-1230-SG	12"x30"x4" STAINLESS STEEL FLOOR TROUGH WITH GRATE AND PERFORATED WASTE BASKET.	-	-	4"	2"
FT-4	FLOOR TROUGH	IMC/TEDDY	FT-2430-SG	24"x30"x4" STAINLESS STEEL FLOOR TROUGH WITH GRATE AND PERFORATED WASTE BASKET.	-	-	4"	2"
FT-5	FLOOR TROUGH	IMC/TEDDY	FWR-72-SG	7½"x72"x4" STAINLESS STEEL FLOOR TROUGH WITH GRATE AND PERFORATED WASTE BASKET.	-	-	4"	2"
FT-6	TRENCH DRAIN	IMC/TEDDY	TRE-48	4"x48"x4" STAINLESS STEEL LINEAR FLOOR TROUGH WITH SUBWAY GRATE, BOTTOM OUTLET WITH PERFORATED WASTE STRAINER.	-	-	2"	2"
BX-1	AIR ADMITTANCE VALVE WITH ACCESS BOX	OATEY	39262 "SURE-VENT "	RECESSED WALL BOX AND "SURE-VENT" AAV FOR IN-WALL INSTALLATION OF AIR ADMITTANCE VALVE, COMPLETE WITH THREADED CONNECTION, TEST CAP AND LOUVERED FACEPLATE. OUTLET COMPATIBLE WITH 1-1/2" OR 2" PVC. COORDINATE INSTALLATION HEIGHT WITH ARCHITECT AND/OR EQUIPMENT.	-	-	2"	2"

GENERAL NOTES (TYPICAL ALL SHEETS)

A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.

B. ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO 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 ARCHITECTS 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. PLUMBING CONTRACTOR SHALL BID WORK IN CEILING SPACE BELOW TO BE COMPLETED AFTER HOURS ONLY IN AREAS THAT ARE NOT OCCUPIED BY THE OWNER'S PERSONNEL. CONTRACTOR SHALL COORDINATE WORKTIMES WITH THE OWNER'S REPRESENTATIVE.

G. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES 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 PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

H. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.

I. PIPING ROUTED BELOW COUNTER IN CABINETS SHALL BE ROUTED AS NOTED. NOT TO INTERFERE WITH DRAWERS, SHELVES, EQUIPMENT, ETC., AND SUPPORT FROM BACK WALL OF CABINET.

J. PLUMBING CONTRACTOR SHALL BID AND SCHEDULE ALL CORE DRILLING AND HAMMER DRILLING FOR AFTER BUSINESS HOURS.

K. PLUMBING CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.

L. PLUMBING CONTRACTOR SHALL PROVIDE PRO-SET SYSTEMS "TRAP GUARD' IN ALL FLOOR DRAIN TRAPS WITHIN PROJECT SCOPE OF WORK.

M. 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.

N. 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 T50 R2C2UL OR EQUIVALENT.

FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

PLUMBING SYMBOLS

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW PIPING
- CW - COLD WATER
- HW - HOT WATER
- HWR - HOT WATER RETURN
- NG - NATURAL GAS
- V - SANITARY VENT ABOVE GRD./FLOOR ABOVE
- V - SANITARY VENT BELOW GROUND
- W - SANITARY WASTE ABOVE GRD./FLOOR ABOVE
- W - SANITARY WASTE BELOW GROUND
- GW - GREASE WASTE ABOVE GRD./FLOOR ABOVE
- GW - GREASE WASTE BELOW GROUND
- SD - PRIMARY STORM DRAINAGE ABOVE GRD./FLOOR ABOVE
- SD - PRIMARY STORM DRAINAGE BELOW GROUND
- OD - SECONDARY STORM DRAINGE ABOVE GRD./FLOOR ABOVE
- BALANCE VALVE
- GAS SHUT-OFF COCK
- SHUT-OFF VALVE
- CHECK VALVE
- OR FLOOR DRAIN
- PIPE DROP/ PIPE RISE
- BOTTOM OUTLET TEE
- TOP OUTLET TEE
- HB HOSE BIBB
- WH WALL HYDRANT
- WALL CLEANOUT
- FFCO FINISHED FLOOR CLEANOUT
- VTR VENT THROUGH ROOF
- CONCENTRIC REDUCER
- DWH-1 EQUIPMENT TYPE AND DESIGNATION
- L-1 PLUMBING FIXTURE TYPE AND DESIGNATION
- ETR EXISTING TO REMAIN
- CONNECT TO EXISTING
- RD ROOF DRAIN
- OD OVERFLOW DRAIN

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

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L.F.# or Project No. 25.TMH.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER

62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

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PLUMBING SCHEDULES, GENERAL NOTES, & SYMBOLS

SHEET NUMBER

P400

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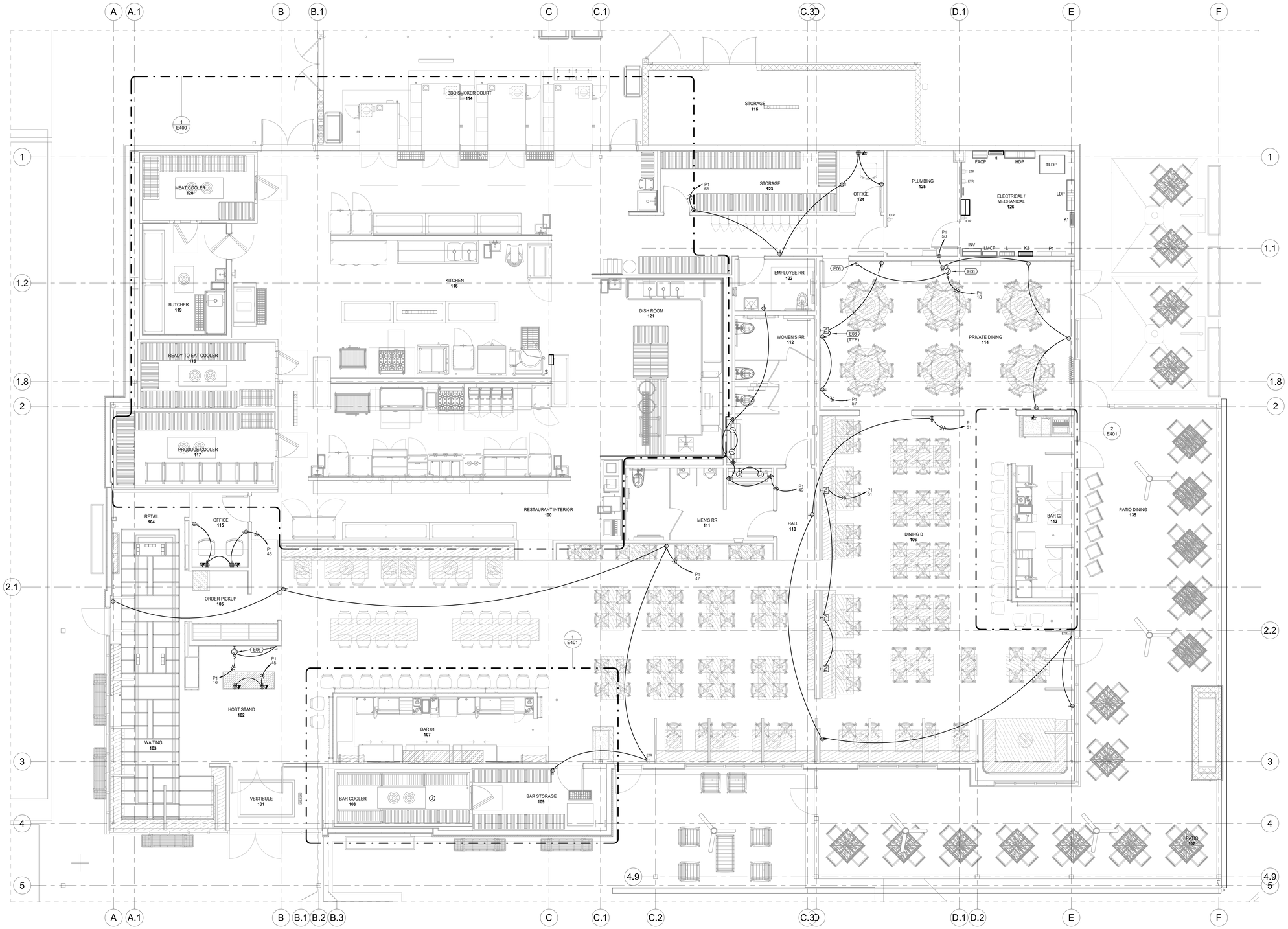
FLOOR PLAN NOTES

E06 PROVIDE JUNCTION BOX WITH TOGGLE DISCONNECT SWITCH FOR FEATURE WALL SIGNAGE. PROVIDE TOGGLE SWITCH FOR CONTROL OF SIGNAGE. COORDINATE LOCATION WITH OF DEVICES WITH SIGNAGE VENDOR, ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

E08 RECEPTACLE AND DATA DEVICE FOR TV. COORDINATE FINAL LOCATION WITH ARCHITECT.



PLAN

FLOOR PLAN - POWER

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

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LEE'S SUMMIT, MO
OLDHAM VILLAGE

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Approver	Author	

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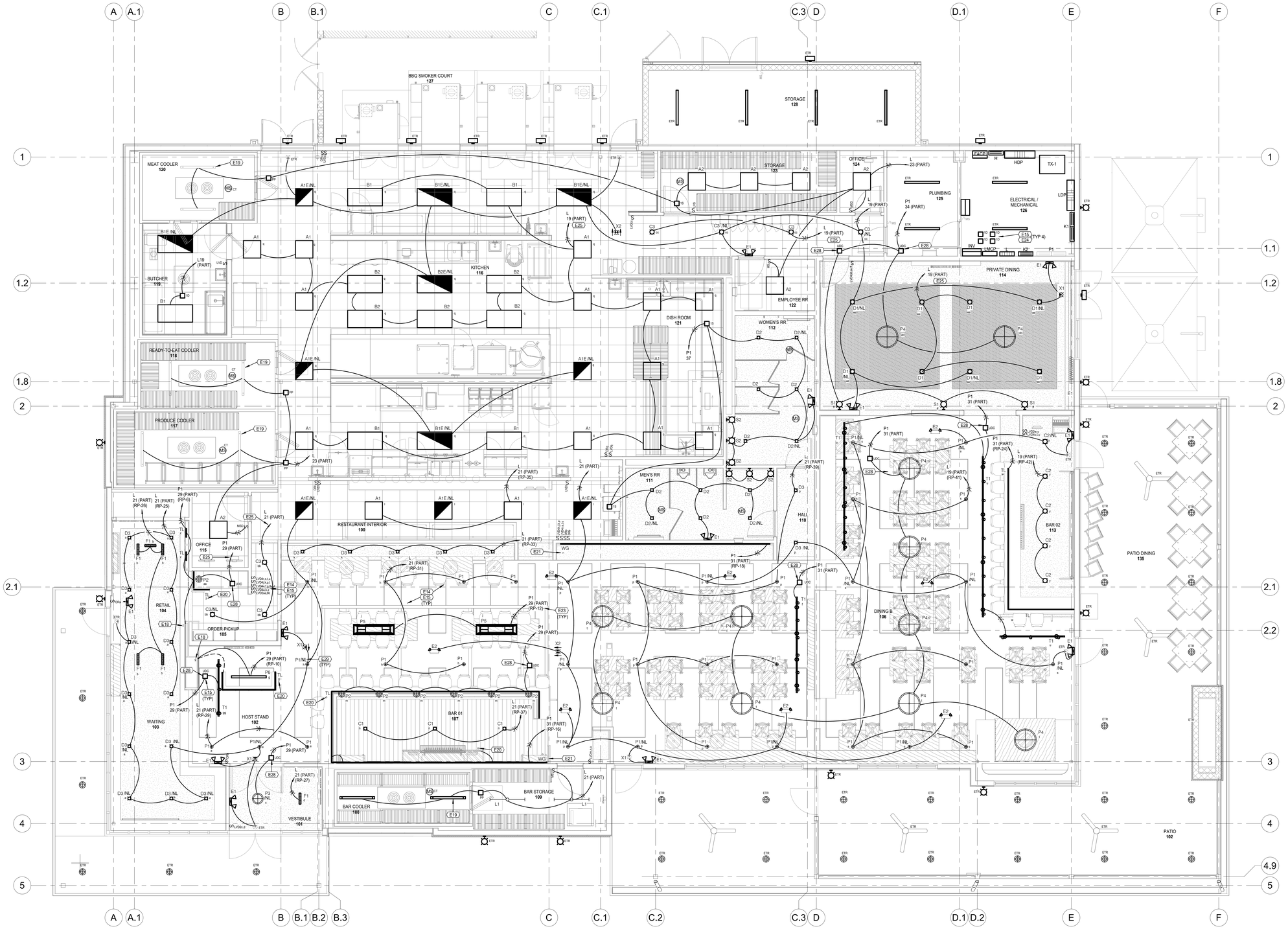
FLOOR PLAN - POWER

SHEET NUMBER

E100



PLAN

FLOOR PLAN - LIGHTING

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

FLOOR PLAN NOTES

- E14 LOWER CASE LETTER DESIGNATES LIGHT FIXTURES TO BE CONTROLLED TOGETHER.
- E15 REFERENCE LIGHTING CONTROL SCHEDULE FOR ADDITIONAL INFORMATION.
- E18 PROVIDE POWER AND CONTROLS WIRING CONNECTION TO TAPELIGHTING PROVIDED BY MILLWORK VENDOR. REFERENCE MANUFACTURER SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E19 PROVIDE POWER AND CONTROLS WIRING CONNECTION TO VAPORTIGHT FIXTURE PROVIDED BY COOLER VENDOR. REFERENCE MANUFACTURER SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E20 TAPE LIGHT IN CHANNEL MOUNTED ON UNDERSIDE OF COUNTERTOP. FIELD MEASURE LENGTH PRIOR TO ORDERING MATERIAL. CONFIRM QUANTITIES, LENGTHS, AND LOCATIONS WITH ARCHITECT.
- E21 FIELD MEASURE LENGTH OF WALL GRAZER PRIOR TO ORDERING MATERIAL. CONFIRM WITH ARCHITECT.
- E23 ROUTE HOMERUN THROUGH LIGHTING CONTROL RELAY PANEL AS INDICATED. REFER TO PANELBOARD AND RELAY PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- E24 PROVIDE ONE SINGLE ZONE ROOM CONTROLLER PER ZONE FOR ZONES q, bb, cc, ee. ROOM CONTROLLER SHALL BE INSTALLED NEAR LIGHTING CONTROL RELAY PANEL "LMCP" AND CONNECTED TO RELAY PANEL FOR PROGRAMMING OF ZONES.
- E25 ROUTE HOMERUN THROUGH SINGLE ZONE ROOM CONTROLLER LOCATED IN ELECTRICAL ROOM.
- E28 0-10V TO PHASE DIMMING ROOM CONTROLLER SHALL BE CONNECTED TO RELAY PANEL FOR PROGRAMMING OF ZONE.
- E29 "NL" NIGHT LIGHT FIXTURE. PROVIDE UNSWITCHED HOT FOR 24/7 ON OPERATION.

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Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER 62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

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STATE OF MISSOURI
NUMBER
PROFESSIONAL ENGINEER
11.17.2025

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FLOOR PLAN - LIGHTING

SHEET NUMBER

E200

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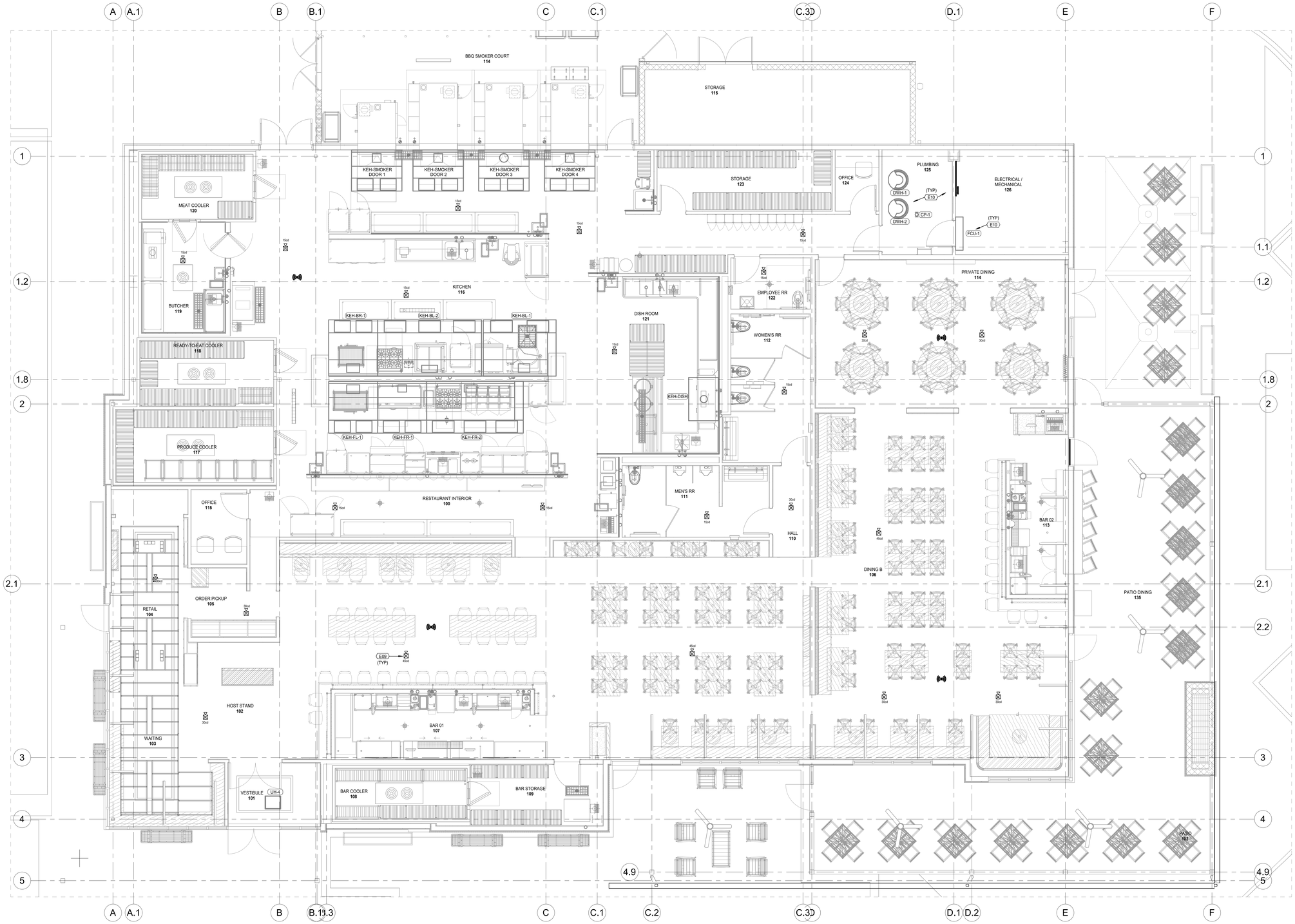
FLOOR PLAN NOTES

E09 PROVIDE NEW DEVICES TO TIE INTO EXISTING FIRE ALARM SYSTEM.
E10 REFER TO MEP SCHEDULES FOR ELECTRICAL REQUIREMENTS FOR ALL TAGGED MECHANICAL AND PLUMBING EQUIPMENT ON THIS SHEET.



PLAN
FLOOR PLAN - SYSTEMS
SCALE: 1/4" = 1'-0"

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Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
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SHEET NAME

FLOOR PLAN - SYSTEMS

SHEET NUMBER

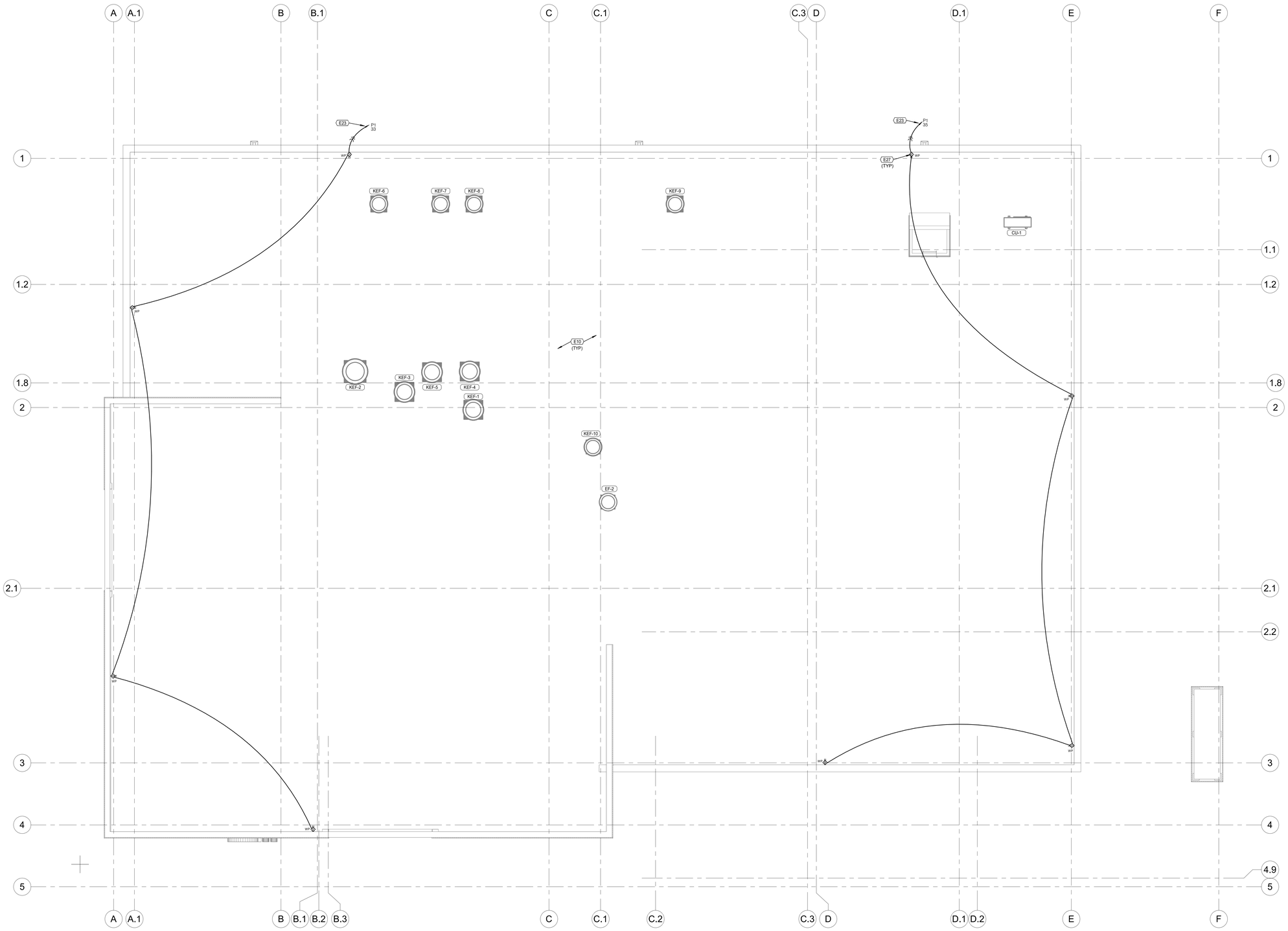
E300

FLOOR PLAN NOTES

E10 REFER TO MEP SCHEDULES FOR ELECTRICAL REQUIREMENTS FOR ALL TAGGED MECHANICAL AND PLUMBING EQUIPMENT ON THIS SHEET.

E23 ROUTE HOMERUN THROUGH LIGHTING CONTROL RELAY PANEL AS INDICATED. REFER TO PANELBOARD AND RELAY PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

E27 PROVIDE RECEPTACLE WITH WEATHER PROOF ENCLOSURE FOR CHRISTMAS LIGHTING AND MOUNT TO INSIDE OF PARAPIT. COORDINATE FINAL LOCATION WITH ARCHITECT/OWNER.



PLAN
ROOF PLAN - SYSTEMS
SCALE: 1/4" = 1'-0"

11/17/2025 5:00:22 PM

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:56

ARCHITECT OF RECORD

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TEL: 913-262-9095
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CONSULTANT

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1730 Walnut Street 816.221.1411
Kansas City, Missouri 64108 Fax: 816.221.1426

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LLF # or Project No: 25.TMH.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

ROOF PLAN - SYSTEMS

SHEET NUMBER

E301

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:56

GENERAL FOOD SERVICE NOTES

A. PROVIDE ALL FINAL ELECTRICAL CONNECTIONS FROM ELECTRICAL BOXES TO FOOD SERVICE EQUIPMENT.

B. REFER TO FOOD SERVICE PLANS FOR EQUIPMENT IDENTIFICATION AND EXACT MOUNTING LOCATIONS OF DEVICES PRIOR TO INSTALLATION.

C. COORDINATE FINAL ROUGH-IN AND ASSOCIATED DEVICES WITH APPROVED SUBMITAL PACKAGE PROVIDED BY THE FOOD SERVICE EQUIPMENT VENDOR. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER.

D. PROVIDE GFCI PROTECTION FOR ALL RECEPTACLES IN KITCHEN AND BAR AREAS AS NOTED IN NEC 210.8 (B).

FLOOR PLAN NOTES

E01 PROVIDE JUNCTION BOX FOR ELECTRICAL CONNECTION TO KITCHEN GAS SOLENOID PROVIDED BY OTHERS. PROVIDE CONNECTION EMERGENCY GAS SHUTOFF PUSH BUTTON IN KITCHEN. COORDINATE EXACT LOCATION OF SOLENOID WITH FOOD SERVICE VENDOR.

E02 KITCHEN HOOD CONTROL PANEL. PROVIDE CONNECTIONS TO MANUAL HOOD SHUTOFF OVERRIDE STATIONS AND FIRE ALARM SYSTEM.

E03 PROVIDE JUNCTION BOX FOR MANUAL HOOD SHUTOFF PULL STATIONS.

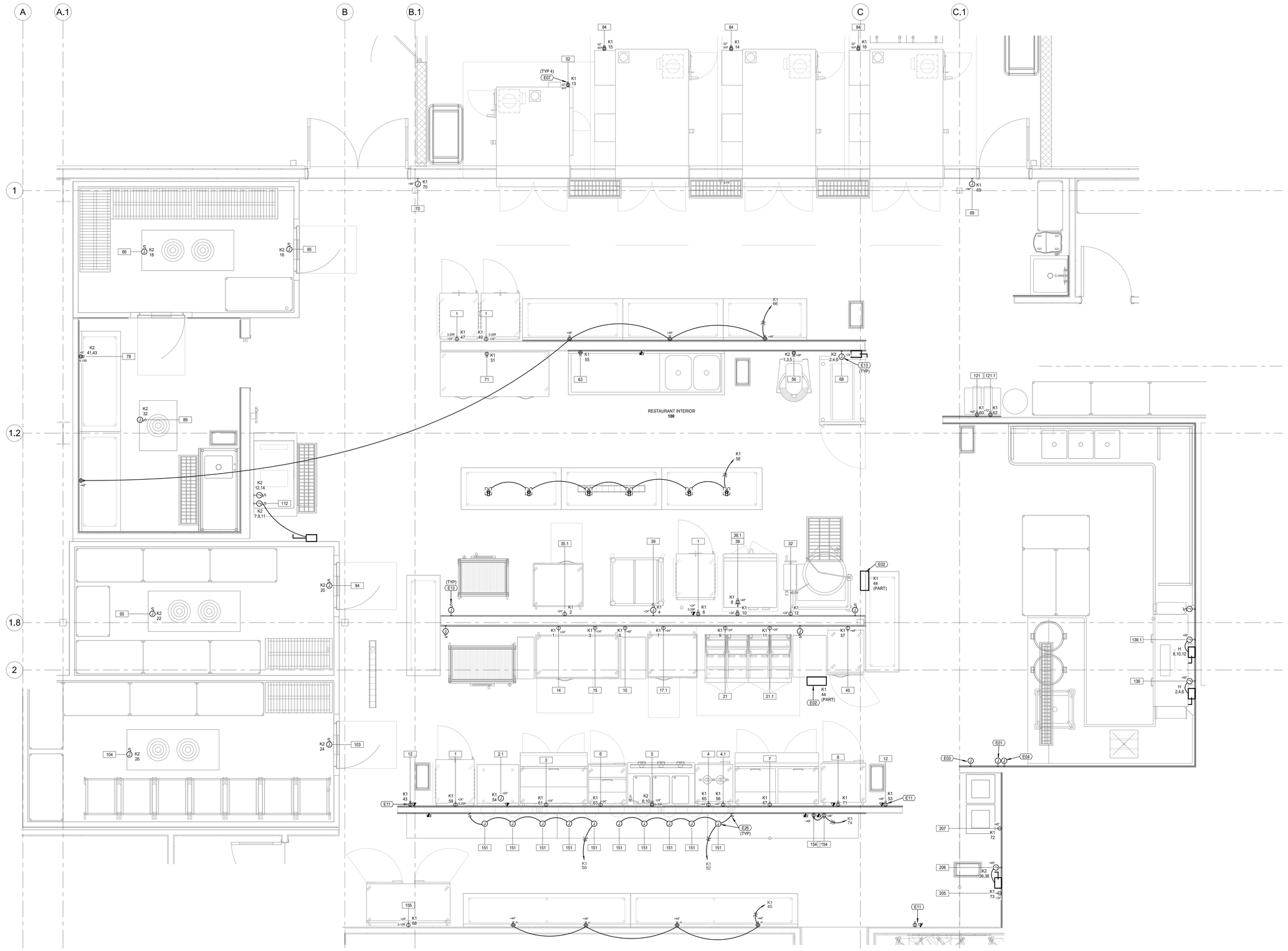
E04 PROVIDE JUNCTION BOX FOR EMERGENCY GAS SHUTOFF PUSH BUTTON BY OTHERS. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.

E07 ROUTE CONDUIT UNDERGROUND AND STUB UP TO AND PROVIDE UNISTRUT MOUNT FOR RECEPTACLE. COORDINATE FINAL UNISTRUT LOCATION WITH ARCHITECT AND EQUIPMENT VENDOR PRIOR TO INSTALL.

E11 RECEPTACLE AND DATA DEVICE FOR POS MONITOR. COORDINATE FINAL LOCATION WITH VENDOR.

E13 PROVIDE JUNCTION BOX FOR ELECTRICAL CONNECTION TO KITCHEN EQUIPMENT PROVIDED BY OTHERS. IN ADDITION, PROVIDE WITH A DISCONNECT SWITCH. COORDINATE STUB IN LOCATIONS WITH VENDOR.

E26 PROVIDE JUNCTION BOX AND TOGGLE SWITCH FOR ELECTRICAL CONNECTION AND CONTROL OF HEAT LAMP. CONFIRM QUANTITY OF HEAT LAMPS TO BE CONTROLLED TOGETHER WITH MANUFACTURER SPECIFICATIONS. CONFIRM SWITCH LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.



PLAN ENLARGED KITCHEN PLAN - POWER
SCALE: 1/2" = 1'-0"

11/17/2025 5:00:24 PM

ARCHITECT OF RECORD
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LF+a Project No: 25.TMH.00

CLIENT
Q39

PROJECT TITLE
Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL
STATE OF MISSOURI
NUMBER
A-2009035239
TIMOTHY H. SCHWERDT
11.17.2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/26	PERMIT SET

SHEET NAME
ENLARGED KITCHEN PLAN

SHEET NUMBER
E400

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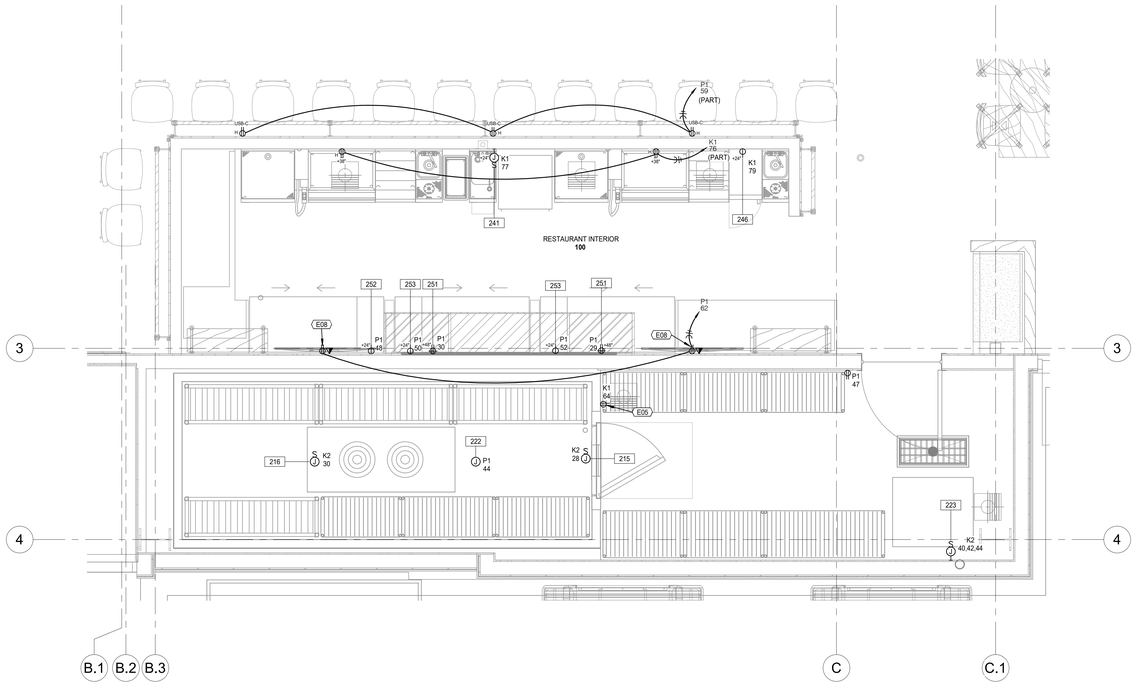
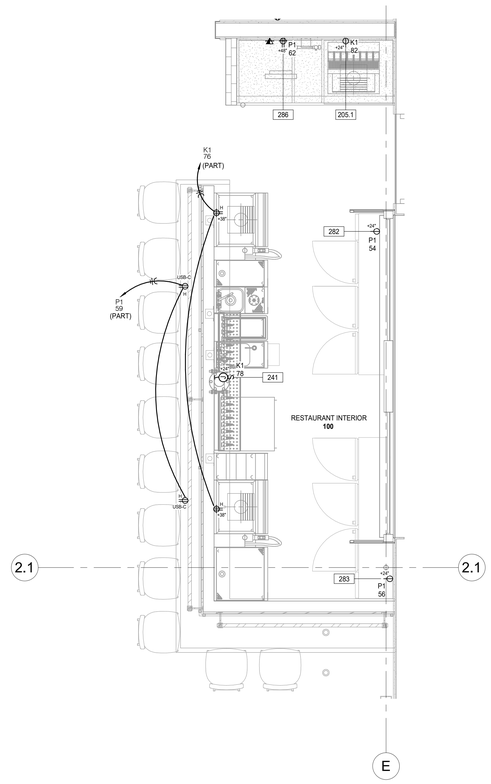


PLAN

ENLARGED BAR 01 - POWER

SCALE: 1/2" = 1'-0"



PLAN

ENLARGED BAR 02 - POWER

SCALE: 1/2" = 1'-0"

GENERAL FOOD SERVICE NOTES

A. PROVIDE ALL FINAL ELECTRICAL CONNECTIONS FROM ELECTRICAL BOXES TO FOOD SERVICE EQUIPMENT.

B. REFER TO FOOD SERVICE PLANS FOR EQUIPMENT IDENTIFICATION AND EXACT MOUNTING LOCATIONS OF DEVICES PRIOR TO INSTALLATION.

C. COORDINATE FINAL ROUGH-IN AND ASSOCIATED DEVICES WITH APPROVED SUBMITAL PACKAGE PROVIDED BY THE FOOD SERVICE EQUIPMENT VENDOR. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER.

D. PROVIDE GFCI PROTECTION FOR ALL RECEPTACLES IN KITCHEN AND BAR AREAS AS NOTED IN NEC 210.8 (B).

FLOOR PLAN NOTES

E05 SURFACE MOUNT ON COOLER. MOUNT ADJACENT TO CO2 SENSOR. COORDINATE FINAL LOCATION WITH EQUIPMENT VENDOR AND ARCHITECT.

E08 RECEPTACLE AND DATA DEVICE FOR TV. COORDINATE FINAL LOCATION WITH ARCHITECT.

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LF+a Project No: 25.TMR.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER

62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

STATE OF MISSOURI
NUMBER PE-2009022126
PROFESSIONAL ENGINEER

11.17.2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

ENLARGED BAR PLANS

SHEET NUMBER

E401

11/17/2025 5:00:29 PM

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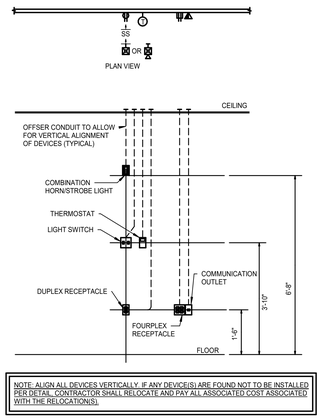
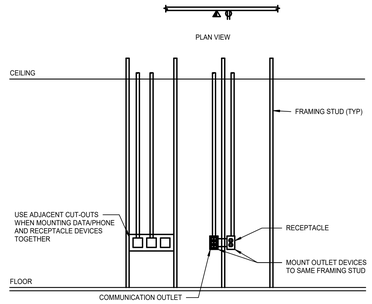
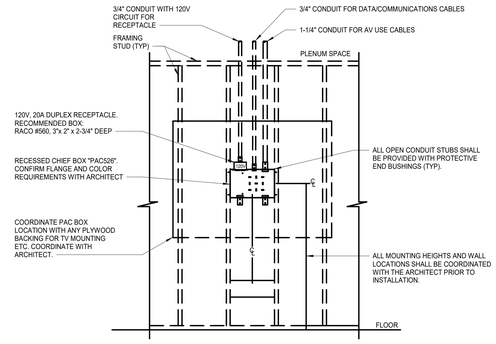


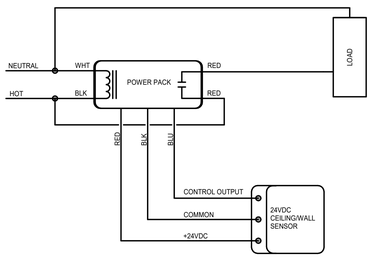
TYPICAL WALL MOUNTING DEVICE DETAIL
NOT TO SCALE



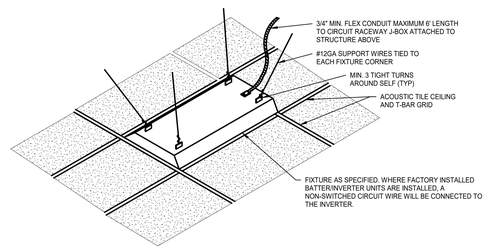
TYPICAL MOUNTING OUTLET DETAIL
NOT TO SCALE



TYPICAL SELF-CONTAINED TV MOUNTING DETAIL
NOT TO SCALE



OCCUPACY SENSOR MS1 DETAIL
NOT TO SCALE



LIGHT FIXTURE MOUNTING AND BRACING DETAIL
NOT TO SCALE

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LFA Project No: 25.TMH.00

CLIENT

Q39

PROJECT TITLE

Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL

STATE OF MISSOURI
NUMBER PE-2009022539
PROFESSIONAL ENGINEER
11.17.2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	11/17/25	PERMIT SET

SHEET NAME

ELECTRICAL DETAILS

SHEET NUMBER

E500

11/17/2025 5:00:31 PM

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EXISTING PANELBOARD P1

BUS AMPS: 225A | MAIN SIZE / TYPE: MLO | VOLTS/PHASE: 208Y/120V, 3PH, 4W | SECTION: 1
SCCR: EXISTING | NEMA TYPE: 1 | MOUNTING: SURFACE | LOCATION: ELEC ROOM
FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD | MANUFACTURER: SQUARE D | MFG MODEL: NQ | OPTIONS: SPD

	CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
RP,E	1	PWR - WEST DOOR SIGN	20	1	1,200	1,200			0	1	20	PWR - FACP	2	E,HL
RP,E	3	PWR - S. MAIN ENTRANCE SIGN	20	1	1,200		1,200		0	1	20	PWR - LMCP	4	E
RP,E	5	PWR - MONUMENT SIGN SOUTH	20	1	1,200			1,400	200	1	20	PWR - SECURITY	6	R
RP,E	7	RCPT - SMOKER CONV.	20	1	720	960			240	1	15	GEH-1,2,3,4,5,6	8	E,RP
RP,E	9	RCPT - EXTERIOR CAFÉ LIGHTS	20	1	540		1,260		720	1	20	RCPT - FRONT BUILDING CONV.	10	E
RP,E	11	RCPT - ROOF TOP	20	1	900			1,800	900	1	20	RCPT - NE BLDG CONV.	12	E
RP,E	13	PWR - WEST WALL SIGN	20	1	1,200	1,920			720	1	20	RCPT - PATIO CONV. 1	14	E
RP,E	15	PWR - FIRE PLACE SIGN	20	1	1,200		2,400		1,200	1	20	PWR - HOST Q39 SIGN	16	R
RP,E	17	RCPT - PATIO FANS	20	1	25			1,225	1,200	1	20	PWR - PRIVATE DINING Q39 SIGN	18	R
RP,E	19	PWR - MONUMENT SIGN NORTH	20	1	1,200	2,160			960	1	15	PWR - EF-1	20	E
E	21	PWR - AUTO DOOR	20	1	600		800		200	1	20	PWR - FIRE PLACE	22	E
E	23	RCPT - ELEC/MECH CONV.	20	1	360			720	360	1	20	RCPT - PHONEBOARD 1	24	E
E	25	PWR - GARAGE DOOR	20	2	600	960			360	1	20	RCPT - PHONEBOARD 2	26	E
	27				600		1,080		480	1	20	PWR - EF-2	28	R
R,RP	29	LTG - WAITING / TOGO/HOST/BAR	20	1	1,149			2,352	1,203	1	20	LTG - KIT./COOLER/OFFICE/ DINING	30	R,RP
R,RP	31	LTG - DINING / BAR	20	1	1,019	1,486			467	1	20	LTG - DINING / BAR	32	R,RP
R,RP	33	RCPT - CHRISTMAS LTG	20	1	720		1,216		496	1	20	LTG - PRIVATE DINING	34	R,RP
R,RP	35	RCPT - CHRISTMAS LTG	20	1	720			930	210	1	20	CP-1	36	R
R	37	LTG - MENS/WOMENS RR	20	1	804	1,554			750	1	20	DWH-1 & DWH-2	38	R
E	39	SPARE	20	1	0		0		0	1	20	SPARE	40	E
E	41	SPARE	20	1	0			0	0	1	20	SPARE	42	E
	SECTION: 2													
R	43	RCPT - OFFICE 115	20	1	1,080	4,224			3,144	1	35	RCPT - DRAFT BEER SYSTEM ITEM 222	44	N
R	45	RCPT - HOST POS	20	1	360		2,280		1,920	1	20	RCPT - BACK BAR POS MONITOR ITEM 286	46	R
R	47	RCPT - RETAIL / DINING / BAR 1 CONV.	20	1	900			1,200	300	1	20	RCPT - BACK BAR REFRIGERATOR 1 ITEM 252	48	R
R	49	RCPT - RESTROOMS	20	1	1,000	1,300			300	1	20	RCPT - BACK BAR REFRIGERATOR 1 ITEM 253	50	R
R	51	RCPT - E DINING / HALL / BAR 2 CONV.	20	1	900		1,200		300	1	20	RCPT - BACK BAR REFRIGERATOR 1 ITEM 253	52	R
R	53	RCPT - PRIVATE DINING CONV. 1	20	1	720			1,224	504	1	20	RCPT - BACK BAR REFRIGERATOR 1 ITEM 282	54	R
E	55	SPARE	20	1	0	504			504	1	20	RCPT - BACK BAR REFRIGERATOR 1 ITEM 283	56	R
R	57	RCPT - PRIVATE DINING TV / CONV. 2	20	1	740		2,660		1,920	1	20	RCPT - BAR POS MONITOR ITEM 251	58	R
R	59	RCPT - BAR COUNT USB-C	20	1	900			2,820	1,920	1	20	RCPT - BAR POS MONITOR ITEM 251	60	R
R	61	RCPT - BAR TV	20	1	600	960			360	1	20	RCPT - TV'S	62	R
E	63	SPARE	20	1	0		0		0	1	20	SPARE	64	E
R	65	RCPT - OFFICE 124 / STORAGE 123	20	1	1,080			1,080	0	1	20	SPARE	66	E
E	67	SPARE	20	1	0	0			0	1	20	SPARE	68	E
E	69	SPARE	20	1	0		0		0	1	20	SPARE	70	E
E	71	SPARE	20	1	0			0	0	1	20	SPARE	72	E
E	73	SPARE	20	1	0	0			0	1	20	SPARE	74	E
E	75	SPARE	20	1	0		0		0	1	20	SPARE	76	E
E	77	SPARE	20	1	0			0	0	1	20	SPARE	78	E
E	79	SPARE	20	1	0	0			0	1	20	SPARE	80	E
N	81	CU-1 / FCU-1	35	2	3,536		3,536		0	1	20	SPARE	82	E
	83				3,536			3,536	0	1	20	SPARE	84	E
		PER PHASE CONNECTED - VA				17,228	17,632	18,286				TOTAL CONNECTED - VA	53,146	
		PER PHASE CONNECTED - AMPS				144	147	152				TOTAL CONNECTED - AMPS	148	
												TOTAL DEMAND - VA	44,074	
												NEC TOTAL DEMAND - AMPS	122	

NOTES:
RP = CONTROL CIRCUIT WITH RELAY PANEL AS INDICATED ON PLAN
HL = HANDLE LOCK ON/OFF
SPD = SURGE PROTECTIVE DEVICE
E = EXISTING CIRCUIT BREAKER
R = REUSE EXISTING CIRCUIT BREAKER
N = PROVIDE NEW CIRCUIT BREAKER
*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

EXISTING PANELBOARD HDP

BUS AMPS: 600A | MAIN SIZE / TYPE: 600A MCB | VOLTS/PHASE: 480Y/277V, 3PH, 4W | SECTION: 1
SCCR: EXISTING | NEMA TYPE: 1 | MOUNTING: SURFACE | LOCATION: ELEC ROOM
FULLY RATED | TYPE: DISTRIBUTION PANELBOARD | MANUFACTURER: SQUARE D | MFG MODEL: NQ | OPTIONS: SER,SPD

	CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
	1				56,689	66,610			9,921				2	
E	3	PANEL LDP	350	3	46,597		56,518		9,921	3	40	RTU-1	4	E,HACR
	5	VIA 225KVA TRANSFORMER TX-1			51,647			61,568	9,921				6	
	7				8,683	17,190			8,507				8	
E	9	PANEL L	200	3	9,496		18,003		8,507	3	35	RTU-2	10	E,HACR
	11				6,064			14,571	8,507				12	
	13				0	8,507			8,507				14	
	15	SPACE ONLY	400	3	0		8,507		8,507	3	35	RTU-3	16	E,HACR
	17				0			8,507	8,507				18	
	19				34,964	48,239			13,275				20	
N	21	PANEL H	250	3	35,794		49,069		13,275	3	60	RTU-4	22	E,HACR
	23				39,294			52,569	13,275				24	
	25				0	5,598			5,598				26	
	27	SPACE ONLY	250	3	0		5,598		5,598	3	40	MAU-1	28	E,HACR
	29				0			5,598	5,598				30	
	31				0	5,598			5,598				32	
	33	SPACE ONLY	250	3	0		5,598		5,598	3	40	MAU-2	34	E,HACR
	35				0			5,598	5,598				36	
	37				0	0			0				38	
	39	SPACE ONLY	250	3	0		0		0	3	60	SPD	40	E
	41				0			0	0				42	
		PER PHASE CONNECTED - VA				151,742	143,293	148,411				TOTAL CONNECTED - VA	443,446	
		PER PHASE CONNECTED - AMPS				548	517	536				TOTAL CONNECTED - AMPS	533	
												TOTAL DEMAND - VA	460,743	
												NEC TOTAL DEMAND - AMPS	554	

NOTES:
SER = SERVICE ENTRANCE RATED
HACR = HACR RATED
SPD = SURGE PROTECTIVE DEVICE
E = EXISTING CIRCUIT BREAKER
N = PROVIDE NEW CIRCUIT BREAKER
*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

EXISTING PANELBOARD L

BUS AMPS: 250A | MAIN SIZE / TYPE: MLO | VOLTS/PHASE: 480Y/277V, 3PH, 4W | SECTION: 1
SCCR: EXISTING | NEMA TYPE: 1 | MOUNTING: SURFACE | LOCATION: ELEC ROOM
FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD | MANUFACTURER: SQUARE D | MFG MODEL: NF | OPTIONS: SPD

	CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
RP,E	1	LTG - SITE POLES	20	1	688	1,376			688	1	20	LTG - SITE POLES	2	E,RP
RP,E	3	LTG - SMOKERS / CANOPY / SCONCES	20	1	1,429		2,289		860	1	20	LTG - SITE POLES	4	E,RP
E	5	LTG - ELEC/MECH/PLUMB	20	1	132			648	516	1	20	LTG - SITE POLES	6	E,RP
RP,E	7	LTG - SITE POLES	20	1	516	696			180	1	20	LTG - SITE BOLLARDS	8	E,RP
	9	RELAY PANEL "LMCP"	20	1	200		950		750	1	20	LTG - INVERTER EXTERIOR	10	E
E	11	PWR UH-1	25	1	5,000			5,000	0	1		SPACE ONLY	12	
E	13	PWR UH-2	25	1	5,000	5,000			0	1		SPACE ONLY	14	
E	15	PWR UH-3	25	1	5,000		5,000		0	1		SPACE ONLY	16	
N	17	PWR UH-4	25	1	5,000			5,000	0	1		SPACE ONLY	18	
RP,R	19	LTG - KITCHEN/DINING/BAR 2	20	1	1,611	1,611			0	1		SPACE ONLY	20	
RP,R	21	LTG - WAITING / KITCHEN/DINING	20	1	1,257		1,257		0	1		SPACE ONLY	22	
R	23	LTG - OFFICE /STORAGE / COOLERS	20	1	416			416	0			SPACE ONLY	24	
	25	SPACE ONLY			0	0			0			SPACE ONLY	26	
	27	SPACE ONLY			0		0		0			SPACE ONLY	28	
	29	SPACE ONLY			0			0	0			SPACE ONLY	30	
	31	SPACE ONLY			0	0			0			SPACE ONLY	32	
	33	SPACE ONLY			0		0		0			SPACE ONLY	34	
	35	SPACE ONLY			0			0	0			SPACE ONLY	36	
	37	SPACE ONLY			0	0			0			SPACE ONLY	38	
	39	SPACE ONLY			0		0		0			SPACE ONLY	40	
	41	SPACE ONLY			0			0	0			SPACE ONLY	42	
		PER PHASE CONNECTED - VA				8,683	9,496	11,064				TOTAL CONNECTED - VA	29,243	
		PER PHASE CONNECTED - AMPS				31	34	40				TOTAL CONNECTED - AMPS	35	
												TOTAL DEMAND - VA	30,066	
												NEC TOTAL DEMAND - AMPS	36	

NOTES:
RP = CONTROL CIRCUIT WITH RELAY PANEL AS INDICATED
SPD = SURGE PROTECTIVE DEVICE
E = EXISTING CIRCUIT BREAKER
R = REUSE EXISTING CIRCUIT BREAKER
N = PROVIDE NEW CIRCUIT BREAKER
*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

NEW PANELBOARD H

BUS AMPS: 250A | MAIN SIZE / TYPE: MLO | VOLTS/PHASE: 480Y/277V, 3PH, 4W | SECTION: 1
SCCR: 42k A | NEMA TYPE: 1 | MOUNTING: SURFACE | LOCATION: ELEC ROOM
FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD | MANUFACTURER: SQUARE D | MFG MODEL: NQ | OPTIONS:

	CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
	1	SPACE ONLY			0	7,205			7,205				2	
	3	SPACE ONLY			0		7,205		7,205	3	35	PWR - DISH MACHINE	4	GF
	5	SPACE ONLY			0			7,205	7,205			ITEM 136	6	
	7	SPACE ONLY			0	6,097			6,097				8	
	9	SPACE ONLY			0		6,097		6,097	3	30	PWR - DISH MACHINE HEATER	10	GF
	11	SPACE ONLY			0			6,097	6,097			ITEM 136.1	12	
	13	SPACE ONLY			0	0			0			SPACE ONLY	14	
	15	SPACE ONLY			0		0		0			SPACE ONLY	16	
	17	SPACE ONLY			0			0	0			SPACE ONLY	18	
	19	SPACE ONLY			0	0			0			SPACE ONLY	20	
	21	SPACE ONLY			0		0		0			SPACE ONLY	22	
	23	SPACE ONLY			0			0	0			SPACE ONLY	24	
	25	SPACE ONLY			0	0			0			SPACE ONLY	26	
	27	PWR - KEF-10	15	1	830		830		0			SPACE ONLY	28	
	29	PWR - KEF-5	15	1	2,008			3,975	1,967	1	15	PWR - KEF-9	30	
	31	PWR - KEF-4	15	1	1,662	3,629			1,967	1	15	PWR - KEF-8	32	
	33	PWR - KEF-3	15	1	1,662		3,629		1,967	1	15	PWR - KEF-7	34	
	35	PWR - KEF-1	15	1	2,321			4,288	1,967	1	15	PWR - KEF-6	36	
	37				1,178	1,178			0			SPACE ONLY	38	
	39	PWR - KEF-2	15	3	1,178		1,178		0			SPACE ONLY	40	
	41				1,178			1,178	0			SPACE ONLY	42	
		PER PHASE CONNECTED - VA				18,109	18,939	22,744				TOTAL CONNECTED - VA	59,792	
		PER PHASE CONNECTED - AMPS				65	68	82				TOTAL CONNECTED - AMPS	72	
												TOTAL DEMAND - VA	116,652	
												NEC TOTAL DEMAND - AMPS	140	

NOTES:
GF = GROUND FAULT CIRCUIT INTERRUPTER
*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

EXISTING PANELBOARD LDP

BUS AMPS: 800A | MAIN SIZE / TYPE: 700A MCB | VOLTS/PHASE: 208Y/120V, 3PH, 4W | SECTION: 1
SCCR: EXISTING | NEMA TYPE: 1 | MOUNTING: SURFACE | LOCATION: ELEC ROOM
FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD | MANUFACTURER: SQUARE D | MFG MODEL: I-LINE | OPTIONS:

	CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
	1				16,328	37,702			21,374				2	
E	3	PANEL P1	200	3	11,656		29,718		18,062	3	200	PANEL K1	4	N
	5				12,650			34,862	22,212				6	
	7				0	18,987			18,987				8	
	9	SPACE ONLY	200	3	0		16,879		16,879	3	200	PANEL K2	10	N
	11				0			16,785	16,785				12	
	13				0	0			0				14	
	15	SPACE ONLY	225	3	0		0		0	3	225	SPACE ONLY	16	
	17				0			0	0				18	
	19				0	0			0				20	
	21	SPACE ONLY	225	3	0		0		0	3	225	SPACE ONLY	22	
	23				0			0	0				24	
	25				0	0			0				26	
	27	SPACE ONLY	225	3	0		0		0	3	225	SPACE ONLY	28	
	29				0			0	0				30	
	31				0	0			0				32	
	33	SPACE ONLY	225	3	0		0		0	3	225	SPACE ONLY	34	
	35				0			0	0				36	
	37				0	0			0				38	
	39	SPACE ONLY	225	3	0		0		0	3	225	SPACE ONLY	40	
	41				0			0	0				42	
		PER PHASE CONNECTED - VA				56,689	46,597	51,647				TOTAL CONNECTED - VA	154,933	
		PER PHASE CONNECTED - AMPS				472	388	430				TOTAL CONNECTED - AMPS	430	
												TOTAL DEMAND - VA	159,807	
												NEC TOTAL DEMAND - AMPS	444	

NOTES:
E = EXISTING CIRCUIT BREAKER
N = PROVIDE NEW CIRCUIT BREAKER
*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

NEW PANELBOARD K1

BUS AMPS: 225A | MAIN SIZE / TYPE: 200A MCB W/ST | VOLTS/PHASE: 208Y/120V, 3PH, 4W | SECTION: 1
SCCR: 18k A | NEMA TYPE: 1 | MOUNTING: SURFACE | LOCATION: ELEC ROOM
FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD | MANUFACTURER: SQUARE D | MFG MODEL: NQ | OPTIONS: SPD

	CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
	1	RCPT - REFRIGERATED BASE ITEM 14	20	1	396	600			204	1	20	RCPT - REFRIGERATED BASE ITEM 35.1	2	
	3	PWR - COMBI OVEN ITEM 15	20	1	120		936		816	1	20	RCPT - COMBI OVEN ITEM 39	4	
	5	RCPT - COUNTERTOP HEATED WELL ITEM 10	20	1	1,200			3,492	2,292	1	20	RCPT - CVAP HOLDING CABINET 3 ITEM 1	6	
	7	RCPT - REFRIGERATED BASE ITEM 17.1	20	1	204	1,380			1,176	1	20	RCPT - CONVECTION OVEN DECK 1 ITEM 38.1	8	
	9	RCPT - GAS FRYER CONTROLS ITEM 21	20	1	120		1,296		1,176	1	20	RCPT - CONVECTION OVEN DECK 2 ITEM 38	10	
	11	RCPT - GAS FRYERS ITEM 21.1	20	1	960			2,160	1,200	1	20	RCPT - GAS TILT KETTLE ITEM 32	12	
	13	PWR - SMOKER 1 ITEM 52	20	1	1,800	3,600			1,800	1	20	PWR - SMOKER 3 ITEM 84	14	
	15	PWR - SMOKER 2 ITEM 84	20	1	1,800		3,600		1,800	1	20	PWR - SMOKER 4 ITEM 84	16	
	17	SPACE ONLY			0			0	0			SPACE ONLY	18	
	19	SPACE ONLY			0	0			0			SPACE ONLY	20	
	21	SPACE ONLY			0		0		0			SPACE ONLY	22	
	23	SPACE ONLY			0			0	0			SPACE ONLY	24	
	25	SPACE ONLY			0	0			0			SPACE ONLY	26	
	27	SPACE ONLY			0		0		0			SPACE ONLY	28	
	29	SPACE ONLY			0			0	0			SPACE ONLY	30	
	31	SPACE ONLY			0	0			0			SPACE ONLY	32	
	33	SPACE ONLY			0		0		0			SPACE ONLY	34	
	35	SPACE ONLY			0			0	0			SPACE ONLY	36	
	37	SPACE ONLY			0	0			0			SPACE ONLY	38	
	39	SPACE ONLY			0		0		0			SPACE ONLY	40	
	41	SPACE ONLY			0			0	0			SPACE ONLY	42	
	SECTION: 2													
GF	43	RCPT - POS MONITORS ITEM 12	20	1	1,920	2,520			600	1	15	PWR - KEC-1,2 HOOD CTRL PANELS ITEM 26.1,4[illegible]	44	GF
GF	45	RCPT - WORK TABLE CONV.	20	1	900		2,100		1,200	1	20	LTG - KITCHEN HOODS	46	GF
GF	47	RCPT - CVAP HOLDING CABINET 1 ITEM 1	20	1	2,292			3,492	1,200	1	20	LTG - SMOKER HOODS	48	GF
GF	49	RCPT - CVAP HOLDING CABINET 2 ITEM 1	20	1	2,292	3,542			1,250	1	20	PWR - HEAT LAMPS 1	50	GF
GF	51	RCPT - 3 DOOR REACH-IN FREEZER 1 ITEM 71	20	1	1,584		2,834		1,250	1	20	PWR - HEAT LAMPS 2	52	GF
GF	53	RCPT - POS MONITOR ITEM 154	20	1	1,920			2,616	696	1	20	PWR - HEAT LAMP 3	54	GF
GF	55	RCPT - FOOD PROCESSOR ITEM 63	20	1	1,620	2,112			492	1	20	PWR - HEAT LAMP 4	56	GF
GF	57	RCPT - REACH-IN FREEZER 2 ITEM 45	20	1	1,320		2,400		1,080	1	20	RCPT - RETRACTABLE WRK TABLE CONV.	58	GF
GF	59	RCPT - CVAP HOLDING CABINET 4	20	1	2,292			4,212	1,920	1	20	RCPT - SODA SYSTEM	60	GF
GF	61	RCPT - REFRIGERATED PREP TABLE 1	20	1	240	2,160			1,920	1	20	RCPT - SODA SYSTEM CARBONATOR	62	GF
GF	63	RCPT - REFRIGERATED PREP TABLE 2	20	1	240		440		200	1	20	RCPT - CO2 SENSOR	64	GF
GF	65	RCPT - WORK TOP REFRIGERATOR	20	1	240			960	720	1	20	RCPT - SMOKER WORK TABLES	66	GF
GF	67	RCPT - REFRIGERATED PREP TABLE 3	20	1	648	1,128			480	1	20	RCPT - WORKTOP REFRIGERATOR ITEM 155	68	GF
GF	69	PWR - AIR CURTAIN 1 ITEM 69	20	1	408		816		408	1	20	PWR - AIR CURTAIN 2 ITEM 70	70	GF
GF	71	RCPT - WORKTOP FREEZER	20	1	480			2,400	1,920	1	20	RCPT - TEA BREWER ITEM 207	72	GF
GF	73	RCPT - ICE CHEST ITEM 205	20	1	1,920	3,840			1,920	1	20	RCPT - POS MONITOR ITEM 154	74	GF
GF	75	RCPT - SODA TOWER ITEM 205.1	20	1	1,000		1,720		720	1	20	RCPT - BAR CONV.	76	GF
GF	77	RCPT - UNDER BAR DISH MACHINE ITEM 241	20	1	1,440			2,880	1,440	1	20	RCPT - UNDER BAR DISH MACHINE ITEM 241	78	GF
GF	79	RCPT - UNDER BAR ICE MACHINE ITEM 246	20	1	492	492			0			SPACE ONLY	80	
	81	SPACE ONLY	20	1	0		1,920		1,920	1	20	RCPT - SODA TOWER ITEM 205.1	82	GF
	83	SPACE ONLY	20	1	0			0	0			SPACE ONLY	84	
		PER PHASE CONNECTED - VA				21,374	18,062	22,212				TOTAL CONNECTED - VA	61,648	
		PER PHASE CONNECTED - AMPS				178	151	185				TOTAL CONNECTED - AMPS	171	
												TOTAL DEMAND - VA	63,082	
												NEC TOTAL DEMAND - AMPS	175	

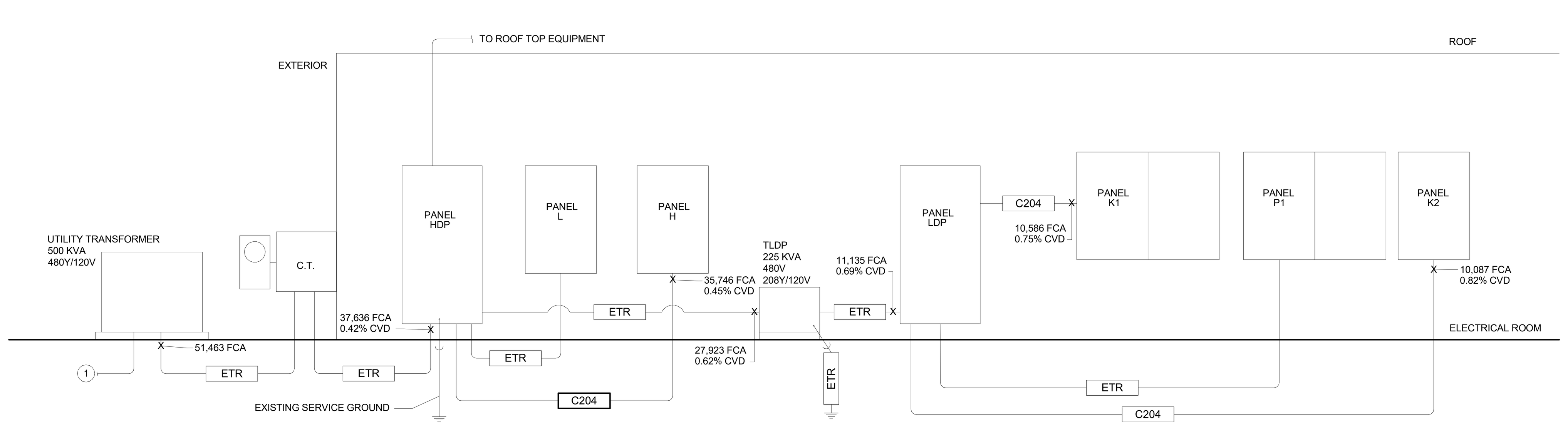
NOTES:
ST = SHUNT TRIP
SPD = SURGE PROTECTIVE DEVICE
HACR = HACR RATED
GF = GROUND FAULT CIRCUIT INTERRUPTER
*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

NEW PANELBOARD K2

BUS AMPS: 225A | MAIN SIZE / TYPE: MLO | VOLTS/PHASE: 208Y/120V, 3PH, 4W | SECTION: 1
SCCR: 18k A | NEMA TYPE: 1 | MOUNTING: SURFACE | LOCATION: ELEC ROOM
FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD | MANUFACTURER: SQUARE D | MFG MODEL: NQ | OPTIONS: SPD

	CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
	1				1,081	3,901			2,820				2	
GF	3	PWR - MIXER	20	3	1,081		3,901		2,820	3	60	PWR - BLAST CHILLER	4	GF
	5	ITEM 56			1,081			3,901	2,820			ITEM 68 (WAITING ON NEW SPEC)	6	
	7				2,414	4,078			1,664	2	20	PWR - HOT FOOD WELL	8	GF
GF	9	PWR - ICE MACHINE	30	3	2,414		4,078		1,664			ITEM 5	10	
	11	ITEM 112			2,414			2,612	198	2	15	PWR - CU (ICE MACHINE)	12	GF
	13				648	846			198			ITEM 112.2	14	
GF	15	PWR - MEAT COOLER CU-1	20	3	648		2,568		1,920	1	20	PWR - MEAT COOLER ITEM 85	16	GF
	17	ITEM 87			648			840	192	1	20	PWR - MEAT COOLER EVAP COIL ITEM 86	18	GF
	19				648	2,568			1,920	1	20	PWR - PRODUCE COOLER ITEM 94	20	GF
GF	21	PWR - PRODUCE COOLER CU-2	20	3	648		840		192	1	20	PWR - PRODUCE COOLER EVAP COIL ITEM 95	22	GF
	23	ITEM 96			648			2,568	1,920	1	20	PWR - R.T.E COOLER ITEM 103	24	GF
	25				721	913			192	1	20	PWR - R.T.E EVAP COIL ITEM 104	26	GF
GF	27	PWR - READY-TO-EAT COOLER CU-3	20	3	721		2,641		1,920	1	20	PWR - KEG COOLER ITEM 215	28	GF
	29	ITEM 105			721			913	192	1	20	PWR - KEG COOLER EVAP COIL ITEM 216	30	GF
	31				648	744			96	1	20	PWR - BUTCHER EVAP COIL ITEM 89	32	GF
GF	33	PWR - KEG COOLER CU-4	20	3	648		648		0			SPACE ONLY	34	
	35	ITEM 217			648			3,768	3,120	2	30	PWR - COFFE/TEA BREWER	36	GF
GF	37	PWR - BUTCHER CU-5	15	2	770	3,890			3,120			ITEM 206	38	
	39	ITEM 90			770		2,067		1,297				40	
GF	41	RCPT - MEAT GRINDER	15	2	750			2,047	1,297	3	20	PWR - ICE MACHINE	42	GF
	43	ITEM 78			750	2,047			1,297			ITEM 223	44	
	45	SPACE ONLY			0		136		136	2	15	PWR - ICE MACHINE CU	46	GF
	47	SPACE ONLY			0			136	136			ITEM 223.2	48	
	49	SPACE ONLY			0	0			0			SPACE ONLY	50	
	51	SPACE ONLY			0		0		0			SPACE ONLY	52	
	53	SPACE ONLY			0			0	0			SPACE ONLY	54	
		PER PHASE CONNECTED - VA				18,987	16,879	16,785				TOTAL CONNECTED - VA	52,651	
		PER PHASE CONNECTED - AMPS				158	141	140				TOTAL CONNECTED - AMPS	146	
												TOTAL DEMAND - VA	52,651	
												NEC TOTAL DEMAND - AMPS	146	

NOTES:
SPD = SURGE PROTECTIVE DEVICE
GF = GROUND FAULT CIRCUIT INTERRUPTER
*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

ⓧ RISER NOTES

1. EXISTING INCOMING UTILITY PRIMARY CONDUITS AND CONDUCTORS.

FEEDER SCHEDULE - COPPER

CIRCUIT AMPS	TAG NAME	NUMBER SETS	PHASE / NEUTRAL CONDUCTORS	EQUIPMENT GROUND	CONDUIT SIZE	NEC SIZE EMT/PVC/RGS	TAG NAME	NUMBER SETS	PHASE / NEUTRAL CONDUCTORS	EQUIPMENT GROUND	CONDUIT SIZE	NEC SIZE EMT/PVC/RGS
	3-WIRE W/ GROUND						4-WIRE W/ GROUND					
200	C203	1	3 #3/0	#6	2"	2"/2"/2"	C204	1	4 #3/0	#6	2"	2"/2"/2"
	MISC FEEDER DESCRIPTIONS											
	ETR						EXISTING FEEDER AND CONDUIT TO REMAIN					

NOTES:
1. SIZE BRANCH FEEDER AND CIRCUITS ACCORDING TO THE CIRCUIT BREAKER / FUSE SIZE AND THIS SCHEDULE. TAG NAME MAY BE USED AS AN ADDITIONAL REFERENCE.
2. REFER TO THE SPECIFICATIONS AND GENERAL NOTES FOR MINIMUM CONDUIT SIZE REQUIREMENTS. MINIMUM SIZE REQUIRED MAY BE LARGER THAN SHOWN IN THIS SCHEDULE.
3. CONDUCTOR SIZES ARE BASED UPON TYPE THHN/THWN CONDUCTORS WITH EMT OR SCHEDULE 40 PVC CONDUIT. VERIFY AND ADJUST CONDUIT SIZE AS REQUIRED FOR OTHER TYPES OF CONDUIT.
4. CONDUCTOR SIZES ARE BASED UPON 100 FEET OR LESS IN LENGTH. IF ONE WAY CIRCUIT IS OVER 100 FEET, INCREASE FEEDER SIZES AS REQUIRED FOR VOLTAGE DROP.
5. APPLY AMBIENT TEMPERATURE CORRECTION FACTORS AS REQUIRED BY THE NEC AND MODIFY FEEDER SIZES ACCORDINGLY.
6. APPLY DERATING FACTORS FOR MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY AS REQUIRED BY THE NEC AND MODIFY FEEDER SIZES ACCORDINGLY.

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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:56

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L|F+a Project No. 25.7849.00

CLIENT

PROJECT TITLE
Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER 62500003
PROJECT MANAGER: Approver | DRAWN BY: Author | CHECKED BY:

PROFESSIONAL SEAL
STATE OF MISSOURI
JONATHAN SCHLIN
NUMBER PE-2009005190
PROFESSIONAL ENGINEER
11.17.2025

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1	11/17/26	PERMIT SET

SHEET NAME
ELECTRICAL SCHEDULES AND RISER

SHEET NUMBER
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	LIGHT SOURCE NOMINAL LUMENS CCT CRI	WATTS VOLTS	DIMMING PROTOCOL	VA	MOUNTING	DESCRIPTION	SPECIFIC NOTES
A1 (A1E)	METALUX 22FP4235C (EL14W)	INTEGRAL LED 4,330 LUMENS 3500K	38.3 UNV	10% 0-10V	43	RECESSED GRID CEILING	2' X 2' LED EDGE LIT RECESSED PANEL, NSF RATED, 4330 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING E = 14 W EMERGENCY BATTERY CAPABLE OF 90 MINUTE RUNTIME.	
A2	METALUX 22FP3235C	INTEGRAL LED 3,307 LUMENS 3500K	29.2 UNV	10% 0-10V	32	RECESSED GRID CEILING	2' X2' LED EDGE LIT RECESSED PANEL, NSF RATED, 3307 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING	
B1 (B1E)	METALUX 24FP6435C (EL14W)	INTEGRAL LED 6091 LUMENS 3500K	60.3 UNV	10% 0-10V	67	RECESSED GRID CEILING	2' X 4' LED EDGE LIT RECESSED PANEL, NSF RATED, 6091 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING E = 14W EMERGENCY BATTERY CAPABLE OF 90 MINUTE RUNTIME.	
B2 (B2E)	METALUX 24FP3835C (EL14W)	INTEGRAL LED 3849 LUMENS 3500K	28.5 UNV	10% 0-10V	32	RECESSED GRID CEILING	2' X 4' LED EDGE LIT RECESSED PANEL, NSF RATED, 4591 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING E = 14W EMERGENCY BATTERY CAPABLE OF 90 MINUTE RUNTIME.	
C1	KENALL EPDL6-NF-DCFW-18L-30K9-W-FW-G-RIG6-DV-DIM1	INTEGRAL LED 1572 LUMENS 3000K	20 UNV	0-10V	22	RECESSED WOOD CEILING	6" ROUND RECESSED DOWNLIGHT, NFS RATED, CLEAR LENS, WHITE TRIM, 1572 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90 CRI.	
C2 (C2E)	KENALL EPDL6-NF-DCFW-18L-30K9-W-FW-G-RIG6-DV-DIM1	INTEGRAL LED 1572 LUMENS 3000K	20 UNV	1% 0-10V	22	RECESSED HARD LID CEILING	6" ROUND RECESSED DOWNLIGHT, NFS RATED, CLEAR LENS, WHITE TRIM, 1572 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90 CRI.	
C3 (C3E)	KENALL EPDL6-NF-DCFW-18L-30K9-W-FW-G-RIG6-DV-DIM1	INTEGRAL LED 1572 LUMENS 3000K	20 UNV	1% 0-10V	22	RECESSED GRID CEILING	6" ROUND RECESSED DOWNLIGHT, NFS RATED, CLEAR LENS, WHITE TRIM, 1572 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90 CRI.	
D1 (D1E)	LUMENWERX AE2RR-TLMW-SW-OF-ASB-UNV-10W-RD1-NA// AE2RRBSW-10W-50DEG-3STP-90CRI-30K-NA-TLMW -FDL-FTMB-NA-NA	INTEGRAL LED 850 LUMENS 3000K	10 UNV	1% 0-10V	11	RECESSED WOOD CEILING	2" ROUND RECESSED DOWNLIGHT. FROSTED DIFFUSED LENS, MATTE BLACK BAFFLE, TRIMLESS MILLWORK, 850 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90 CRI, REMOTE DRIVER. E = EMERGENCY BATTERY CAPABLE OF 90 MINUTE RUNTIME.	
D2 (D2E)	LUMENWERX AE2RR-TRM-SW-OF-ASB-UNV-7W-RD1-NA// AE2RRBSW-7W-50DEG-3STP-90CRI-30K-NA-TRM -FDL-FTMB-FTMB-NA	INTEGRAL LED 632 LUMENS 3000K	7 UNV	1% 0-10V	8	RECESSED HARD LID	2" ROUND RECESSED DOWNLIGHT. FROSTED DIFFUSED LENS, MATTE BLACK BAFFLE, MATTE BLACK TRIM, 632 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90 CRI, REMOTE DRIVER. E = EMERGENCY BATTERY CAPABLE OF 90 MINUTE RUNTIME.	
D3 (D3E)	LUMENWERX AE3RR-TRM-SW-OF-ASB-UNV-10W-RD1-NA// AE3RRBSW-10W-50DEG-3STP-90CRI-30K-NA-TRM -FDL-FTMW-FTMW-NA	INTEGRAL LED 937 LUMENS 3000K	10 UNV	1% 0-10V	11	RECESSED HARD LID CEILING	3" ROUND RECESSED DOWNLIGHT. FROSTED DIFFUSED LENS, WHITE BAFFLE, WHITE TRIM FLANGE, 937 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90 CRI, REMOTE DRIVER. E = EMERGENCY BATTERY CAPABLE OF 90 MINUTE RUNTIME.	
F1	WAC LIGHTING MT-4310T-930-WTBK LENS-16-FR	INTEGRAL LED 835 LUMENS 3000K	30 UNV	1% 0-10V	33	RECESSED HARD LID CEILING	RECESSED 3-LIGHT LED RETRACKABLE, ADJUSTABLE SPOT FIXTURE, WHITE TRIM, BLACK FIXTURE, 835 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90 CRI	
L1	HE WILLIAMS 75-4-L50/835-VBY-2-DRV-UNV (-EM/10WLP) OR EQUAL BY LITHONIA	INTEGRAL LED 5000 LUMENS 3500K	36.7 UNV	1% O-10V	41	SUSPENDED	4' SUSPENDED LED STRIP. DIE FORMED C.R.S. HOUSING. WHITE POLYESTER POWEDER COAT. PAINTED AFTER FABRICATION, Y-HANGERS WITH CHAINS. 3500K COLOR TEMPERATURE, 5000 LUMEN OUTPUT.	
P1 (P1E)	LUMENWERX AE5CYP-D-12IN-FTMB-BVL-FTMB-NOL-SW-80DEG 3STP-90CRI-30K-LSDL-UNV-14W-D1-CDR-FTMB- BPC##IN-BKS##IN (+EB FOR "P1E")	INTEGRAL LED 1220 LUMENS 3000K	14 UNV	1% O-10V	16	SUSPENDED	SUSPENDED 5" X 12" LED CYLINDER, BLACK FINISH, BLACK BEVELED BAFFLE, 80 DEGREE DISTRIBUTION 1220 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90CRI. E = EMERGENCY BATTERY CAPABLE OF 90 MINUTE RUNTIME. MOUNT TO BOTTOM OF FIXTURE AT 12'-0" AFF. CONFIRM WITH ARCHITECT.	1,2
P2	INNOVATIONS LIGHITNG 201C-OB-M13-OB	E26 800 LUMENS 3000K	100 120	- PHASE	111	SUSPENDED	8" APPALACHIAN OIL RUBBED BRONZE PROVIDE WITH (1) A19/E26 LED LAMP, 800 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, DIMMABLE MOUNT TO BOTTOM OF FIXTURE AT 7'-0" AFF. CONFIRM WITH ARCHITECT.	1,2
P3E	AFX DUNF15LAJUDBKGD	INTEGRAL LED 1400 LUMENS 3000K	26 120	- PHASE	29	SURFACE	16" DUNCAN FLUSH MOUNT BLACK/GOLD, INTEGRAL LED, 1400 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, DIMMABLE 90 CRI.	2
P4	DAINOLITE PLV-304C-MB-698 DAI1174954	E26 800 LUMENS/LAMP 3000K	68 120	- PHASE	76	SUSPENDED	30" PALLAVI PENDANT PROVIDE WITH (4) A19/E26 LED LAMPS, MAXIMUM WATTAGE OF 17W EACH, 800 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, DIMMABLE MOUNT TO BOTTOM OF FIXTURE AT 9'-6" AFF. CONFIRM WITH ARCHITECT.	1,2
P5	KONCEPT LIGHTING ZBP-54-RR-SW-MTB-CN	INTEGRAL LED 5350 LUMENS 3000K	84 120	1% 0-10V	93	SUSPENDED	56.2" Z-BAR RECTANGLE BLACK LED DECORATIVE SUSPENDED FIXTURE, 5350 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 90 CRI, 0-10V DIMMING. MOUNT TO BOTTOM OF FIXTURE AT 7'-0" AFF. CONFIRM WITH ARCHITECT.	2
P6	KUZCO LIGHTING LP70148-BK-UNV	INTEGRAL LED 1800 LUMENS 3000K	25 120	1% 0-10V	28	SUSPENDED	48" GRAMERCY LINEAR PENDANT BLACK LED DECORATIVE SUSPENDED FIXTURE, 1800 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, 90 CRI, 0-10V DIMMING MOUNT TO BOTTOM OF FIXTURE AT 10'-6" AFF. CONFIRM WITH ARCHITECT.	
S1	DAINOLITE SAM-252W-MB	E26 500 LUMENS/LAMP 3000K	120 120	- PHASE	133	WALL SCONCE	SAMANTHA 2 LIGHT WALL SCONCE BLACK PROVIDE WITH (2) LED E26 LAMPS, 500 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, DIMMABLE. REFERENCE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.	1,2
S2	DAINOLITE SAM-252W-MB	E26 500 LUMENS/LAMP 3000K	120 120	- PHASE	133	WALL SCONCE	SAMANTHA 2 LIGHT WALL SCONCE BLACK PROVIDE WITH (2) LED E26 LAMPS, 500 LUMEN OUTPUT, 3000K COLOR TEMPERATURE, DIMMABLE. REFERENCE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.	1,2
T#	CONTECH LT-#-B / LA-10-B / LAC-24 CTL-9052WF-3C-B	INTEGRAL LED 1462 LUMENS 3000K	14 UNV	- PHASE	16	SUSPENDED	TRAC-MASTER 1-CIRCUIT TRACK SECTIONS. BLACK FINISH. LENGTHS PER PLAN. MOUNT AT 10'-6" AFF. CONFIRM WITH ARCHITECT. POWER END FEED. CABLE MOUNT KIT CTL905 SERIES. FLOOD BEAM. BLACK FINISH.	
TL	KELVIX SIGNWAVE SW3S-XX-30K-HZ-XX-XX-IP68	INTEGRAL LED 143 LUMENS/FT 3000K	3.7 / FT 24V	1% 0-10V	4.1	SURFACE	SURFACE MOUNTED UNDER COUNTER TAPE LIGHT IN ANODIZED CHANNEL WITH FROSTED LENS AND FIXED MOUNTING CLIPS. QUICK CONNECT END FEEDS. UNIVERSAL DIMMING POWER SUPPLY. POWER SUPPLY SIZE PER PLAN. 3.7 WATTS/FOOT WET RATED.	
WG	ALCON LIGHTING 12109-XX-30K-10-DY-AB 4N1-150W-24V	INTEGRAL LED 440 LUMENS/FT 3000K	4/FT UNV	- 0-10V	4.4	SURFACE	SURFACE MOUNTED LED WALL GRAZER. 440 LUMENS/FOOT, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 90 CRI.	
X1	LITHONIA EDG-W-1-RW-EL-SD	LED	5 120/277	N/A N/A	5.6	SUSPENDED	EDGE LIT UNIVERSAL SURFACE MOUNT ALUMINUM BODY IN WHITE FINISH. SINGLE FACE WITH RED LETTERING ON WHITE BACKGROUND. EMERGENCY BATTERY BACK UP CAPABLE OF 90 MINUTE RUNTIME WITH SELF DIAGNOSTICS. DIRECTIONS PER PLAN.	
X2	LITHONIA EDG-W-2-RW-EL-SD	LED	5 120/277	N/A N/A	5.6	SUSPENDED	EDGE LIT UNIVERSAL SURFACE MOUNT ALUMINUM BODY IN WHITE FINISH. DOUBLE FACE WITH RED LETTERING ON WHITE BACKGROUND. EMERGENCY BATTERY BACK UP CAPABLE OF 90 MINUTE RUNTIME WITH SELF DIAGNOSTICS. DIRECTIONS PER PLAN.	

SPECIFIC NOTES:
1 CONFIRM LAMP TYPE WITH MANUFACTURER SPECIFICATIONS.
2 CONFIRM LAMP IS COMPATIBLE WITH DIMMING CONTROL SYSTEM.

GENERAL NOTE:
G1. THE MANUFACTURER IN THE COLUMN LISTED FIRST IS THE BASIS OF DESIGN. SUBSEQUENT MANUFACTURER'S/MODEL SERIES LISTED ARE CONSIDERED APPROVED EQUIVALENT, SUBJECT TO COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
G2. REFER TO THE SUBSTITUION NOTES BELOW FOR THE PROCESS TO BECOME AN APPROVED EQUIVALENT.
G3. VERIFY CEILING TYPE PRIOR TO ORDERING LIGHT FIXTURES, AND PROVIDE TRIM KITS, ADAPTER KITS, MOUNTING HARDWARE, ETC AS REQUIRED FOR THE TYPE OF CEILING APPLICATION.
G4. COORDINATE DIMMING DRIVERS WITH DIMMING SWITCHES/SYSTEMS AND PROVIDE REQUIRED CONTROL WIRING.
G5. PROVIDE UNSWITCHED HOT CONDUCTOR TO LIGHT FIXTURES AND EXIT SIGNS WITH EMERGENCY BATTERY BACK UP POWER.
G6. CONFIRM FINAL LIGHT FIXTURE FINISHES WITH THE ARCHITECT PRIOR TO ORDERING.

SUBSTITUTION NOTES:
THE LIGHTING DESIGN FOR THIS PROJECT IS BASED UPON THE MANUFACTURER SPECIFIED. IF A PROPOSED SUBSTITUTION IS DESIRED BY THE CONTRACTOR, A SUBSTITUTION REQUEST SUBMITTAL MUST BE PROVIDED AS FOLLOWS:

S1. SUBSTITUTION REQUEST FOR PROPOSED EQUIVALENTS MUST BE RECEIVED BY THE ENGINEER IN WRITING AT LEAST 10 DAYS PRIOR TO BID. FAILURE TO SUBMIT CONSTITUTES A GUARANTEE TO SUPPLY THE SPECIFIED LIGHT FIXTURE OR LISTED EQUIVALENT.
S2. INFORMATION IS TO BE SUPPLIED COMPARING PHOTOMETRY, (WITH FLOOR PLANS INDICATING POINT BY POINT CALCULATIONS) DIMENSIONS, MATERIAL COMPOSITION, FINISH, VISUAL APPEARANCE AS WELL AS THE "CONTRACTOR NET" PRICING.
S3. LUMENS INDICATED ARE NOMINAL BASED ON THE BASIS OF DESIGN LIGHT FIXTURE. IT IS THE RESPONSIBILITY OF THE LIGHTING REPRESENTATIVE TO REVIEW THE DELVIERED LUMENS OF THE BASIS OF DESIGN AND TO MEET OR EXCEED THAT VALUE.
S4. SAMPLES ARE TO BE PROVIDED UPON REQUEST.
S5. IF THE ENGINEER DEEMS THE PROPOSED SUBSTITION ACCEPTABLE, IT WILL BE INCLUDED IN THE BID DOCUMENT OR AN ADDENDUM WILL BE ISSUED THAT INCLUDES THE LIGHT FIXTURE IN THE SCHEDULE AS AN APPROVED EQUIVALENT. IF THE PROPOSED SUBSTITUTION IS NOT DEEMED ACCEPTABLE, IT WILL NOT BE INLCUDED IN THE ADDENDUM, THEREFORE IT IS NOT ACCEPTABLE TO INCLUDE IN THE BID.
S6. PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED.
S7. MANUFACTURER'S REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MINI-LOT PRICING FOR SPECIFIED LIGHTING FIXTURES.
S8. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ANY LIGHTING CONTROLS PRICING THAT IS SUBMITTED WITH LIGHT FIXTURE PRICING (UNIT OR MINI-LOT) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY.

POST BID ALTERNATES:
P1. GREAT CARE, TIME AND EXPENSE HAVE BEEN USED TO PROVIDE OUR CLIENT WITH THE LIGHTING AND CONTROLS SYSTEM. THEREFORE, FOR EACH AND EVERY TYPE OF LIGHT FIXTURE OR CONTROL SYSTEM OFFERED AS AN UNSOLICITED ALTERNATE, A $500.00 FEE WILL BE CHARGED TO THE CONTRACTOR FOR REVIEW OF THE PROPOSED ALTERNATE. THIS CHARGE IS IN NO WAY A GUARANTEE OF APPROVAL, BUT IS SOLELY TO COMPENSATE THE ENGINEER FOR TIME SPENT VALIDATING EQUALITY AND COMPATIBILITY WITH THE PROJECT REQUIREMENTS. THIS REIMBURSEMENT FEE MUST BE RECEIVED BY THE ENGINEER PRIOR TO ANY REVIEW COMMENCING.
P2. SAMPLES ARE TO BE PROVIDED UPON REQUEST.

LIGHTING CONTROLS SCHEDULE

TYPE / TAG	MANUFACTURER	MODEL #	EQ. MANUCTURER	EQ. MODEL #	VOLTAGE	DETECTION TYPE	MOUNTING	DESCRIPTION	NOTES
LINE VOLTAGE MOTION SENSOR SWITCHES									
S^{MS}	WATTSTOPPER	LMDW-220	CRESTRON LUTRON ACUITY	nWSXA	LOW VOLTAGE	-	WALL	LOW VOLTAGE 2 BUTTON WALL SWITCH, LOCAL SYSTEM, SINGLE ZONE, ON/OFF CONTROL	2,4
LINE VOLTAGE MOTION SENSOR WALL SWITCHES WITH DIMMING									
S^{MSD}	WATTSTOPPER	LMDW-211	CRESTRON LUTRON ACUITY	nWSXA DX	LOW VOLTAGE	-	WALL	LOW VOLTAGE, LOCAL SYSTEM, 1 BUTTON, 1-ROCKER, SINGLE ZONE SWITCH, ON/OFF AND RAISE/LOWER CONTROL.	2,4
LOW VOLTAGE MOTION SENSOR SWITCHES									
S^{LVS}	WATTSTOPPER	LMSW-210	CRESTRON LUTRON ACUITY	nPODMA	LOW VOLTAGE	-	WALL	LOW VOLTAGE, LOCAL SYSTEM, SINGLE ZONE SWITCH, ON/OFF CONTROL	2,4
S^{OR}	WATTSTOPPER	LMSW-101	CRESTRON LUTRON ACUITY		LOW VOLTAGE	-	WALL	LOW VOLTAGE, NETWORKED SINGLE ZONE SWITCH, ON/OFF MANUAL OVERRIDE PROGRAM SWITCH FOR 2 HOUR MANUAL OVERRIDE OF RELAY PANEL PROGRAMMED SCHEDULE	2,4
LOW VOLTAGE MOTION SENSOR SWITCHES WITH DIMMING									
S^{LVD}	WATTSTOPPER	LMSW-211	CRESTRON LUTRON ACUITY	nPODMA DX	LOW VOLTAGE	-	WALL	LOW VOLTAGE, LOCAL SYSTEM, 1 BUTTON, 1-ROCKER, SINGLE ZONE SWITCH, ON/OFF AND RAISE/LOWER CONTROL.	2,4
S^{LVD2}	WATTSTOPPER	LMSW-222	CRESTRON LUTRON ACUITY	nPODMA 2P DX	LOW VOLTAGE	-	WALL	LOW VOLTAGE, LOCAL SYSTEM, 2 BUTTON, 2-ROCKER, 2 ZONE SWITCH, ON/OFF AND RAISE/LOWER CONTROL.	2,4
S^{LVD4}	WATTSTOPPER	LMSW-241	CRESTRON LUTRON ACUITY	nPODMA 4P DX	LOW VOLTAGE	-	WALL	LOW VOLTAGE, LOCAL SYSTEM, 4 BUTTON, 1-ROCKER, 4 ZONE SWITCH, ON/OFF AND RAISE/LOWER CONTROL.	2,4
LOW VOLTAGE ROOM CONTROLLERS									
1S, 2S, 3S	WATTSTOPPER	LMRC-101 LMRC-102 LMRC-103	CRESTRON LUTRON ACUITY	JBOX-20A-SW nPP16	120/277V	-	ABOVE CEILING	ONE, TWO, OR THREE RELAY ROOM CONTROLLER, ON/OFF CONTROL. PLENUM RATED, INTEGRATES WITH LOW VOLTAGE SENSORS AND SWITCHES	1,2,4
LOW VOLTAGE ROOM CONTROLLERS WITH DIMMING									
1D, 2D, 3D	WATTSTOPPER	LMRC-211 LMRC-212 LMRC-213	CRESTRON LUTRON ACUITY	JBOX-16A-LV nPP16 D	120/277V LOW VOLTAGE	-	ABOVE CEILING	ONE, TWO, OR THREE RELAY ROOM CONTROLLER, ON/OFF CONTROL WITH 0-10V DIMMING. PLENUM RATED, INTEGRATES WITH LOW VOLTAGE SENSORS AND SWITCHES	1,2,4
LOW VOLTAGE OCCUPANCY SENSORS									
MS	WATTSTOPPER	LMDC-100	CRESTRON LUTRON ACUITY	nCM PDT	LOW VOLTAGE	DUAL TECHNOLOGY	CEILING	LOW VOLTAGE OCCUPANCY SENSOR WITH 1000 SF COVERAGE	3
MS^{CT}	WATTSTOPPER	CB-100	CRESTRON LUTRON ACUITY	SBO 10 OEX XX	LOW VOLTAGE	PASSIVE INFRARED	CEILING	LOW VOLTAGE OCCUPANCY SENSOR, GASKETED AND WATERTIGHT, LOW TEMPERATURE RATED. 90 DEGREE COVERAGE.	3
LINE VOLTAGE POWER PACK									
PP	WATTSTOPPER	BZ-150	CRESTRON LUTRON ACUITY	PP20	120/277	-	ABOVE CEILING	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS WITH 20A LOAD RELAY AND INTEGRAL TRANSFORMER. MANUAL AND AUTO-ON MODES, HOLD-ON AND HOLD-OFF INPUTS.	1,2
VOLTAGE CONVERTER									
UDC	WATTSTOPPER	LMAC-131M	CRESTRON LUTRON ACUITY	nPP PCD	120/277V LOW VOLTAGE	-	ABOVE CEILING	0-10V TO PHASE ROOM CONTROLLER. CONVERTS 0-10V SIGNAL TO LINE VOLTAGE FOR FORWARD OR REVERSE PHASE DIMMING. 1300W @ 277V, 750W @ 120V.	1,2

SPECIFIC NOTES:
1. LOCATE DEVICE ABOVE ACCESSIBLE CEILING OR WITHIN ELECTRICAL ROOM. LOCATIONS SHOWN ON PLAN ARE SCHEMATIC.
2. PROVIDE 8' OF EXCESS CONTROL WIRING, COILED AND TIED, BETWEEN CEILING MOUNTED SENSORS AND CORRESPONDING ROOM CONTROLLERS.
3. MODIFY LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED SO THAT SENSORS COMPLY WITH MANUFACTURER'S LIMITATIONS AND PROXIMITY TO HVAC DIFFUSERS.
4. VERIFY COLOR OF DEVICES WITH ARCHITECT PRIOR TO ORDERING

SUBSTITUTION NOTES:
THE LIGHTING DESIGN FOR THIS PROJECT IS BASED UPON THE MANUFACTURERS SPECIFIED. IF AN ADDITIONAL SUBSTITUTION IS DESIRED BY THE CONTRACTOR,
A SUBSTITUTION REQUEST SUBMITTAL MUST BE PROVIDED AS FOLLOWS:
S1. SUBSTITUTION REQUEST MUST BE RECEIVED BY THE ENGINEER IN WRITING 10 DAYS PRIOR TO BID. FAILURE TO SUBMIT CONSTITUTES A GUARANTEE TO SUPPLY THE SPECIFIED LIGHTING CONTROLS.
S2. INFORMATION IS TO BE SUPPLIED COMPARING WIRING REQUIREMENTS, LOAD RATINGS, DIMENSIONS, MATERIAL COMPOSITION, FINISH, VISUAL APPEARANCE AS WELL AS THE "CONTRACTOR NET" PRICING.
S3. SAMPLES ARE TO BE PROVIDED UPON REQUEST.
S4. IF THE ENGINEER DEEMS THE PROPOSED SUBSTITION ACCEPTABLE, AN ADDENDUM WILL BE ISSUED THAT INCLUDES THE LIGHTING CONTROL DEVICE IN THE SCHEDULE AS AN APPROVED EQUIVALENT.
S5. IF THE PROPOSED SUBSTITUTION IS NOT DEEMED ACCEPTABLE, IT WILL NOT BE INLCUDED IN THE ADDENDUM, THUS NOT ACCEPTABLE TO INCLUDE IN THE BID.
S6. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING.

POST BID ALTERNATES:
P1. GREAT CARE, TIME AND EXPENSE HAVE BEEN USED TO PROVIDE OUR CLIENT WITH THE LIGHTING AND CONTROLS SYSTEM SPECIFIED. THEREFORE, FOR EACH AND EVERY TYPE OF LIGHT FIXTURE OR CONTROL SYSTEM OFFERED AS AN UNSOLICITED ALTERNATE, A $500.00 FEE WILL BE CHARGED TO THE CONTRACTOR FOR REVIEW OF THE PROPOSED ALTERNATE. THIS CHARGE IS IN NO WAY A GUARANTEE OF APPROVAL, BUT IS SOLELY TO COMPENSATE THE ENGINEER FOR TIME SPENT VALIDATING EQUALITY AND COMPATIBILITY WITH THE PROJECT REQUIREMENTS. THIS REIMBURSEMENT FEE MUST BE RECEIVED BY THE ENGINEER PRIOR TO ANY REVIEW COMMENCING.
P2. SAMPLES ARE TO BE PROVIDED UPON REQUEST.

RELAY PANEL: RP

LOCATION: ELEC
CONTROL POWER SOURCE: L-9
MANFACTURER: WATTSTOPPER
MODEL: LMCP

#	SOURCE PANEL - CKT	LOAD DESCRIPTION	CONTROL SCHEDULE	LOAD TYPE	DIMMING	VOLTAGE	P	P	VOLTAGE	DIMMING	LOAD TYPE	CONTROL SCHEDULE	LOAD DESCRIPTION	SOURCE PANEL - CKT	#
1	ETR	PWR - WEST DOOR SIGN	A	NORMAL	NO	120	1	1	120	0-10V	NORMAL	K	PWR - GEH-1,2,3,4,5,6	ETR	2
3	ETR	PWR - S. MAIN ENTRANCE SIGN	A	NORMAL	NO	120	1	1	120	0-10V	NORMAL	M	PWR - EF-1	ETR	4
5	ETR	PWR - MONUMENT SIGN SOUTH	A	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	INTERIOR LTG - RETAIL-ZONE z	P1-29	6
7	ETR	RCPT - SMOKER CONV.	E	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	RCPT - CHRISTMAS LTG	P1-33	8
9	ETR	RCPT - EXTERIOR CAFÉ LIGHTS	C	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	INTERIOR LTG - HOST - ZONE g	P1-29	10
11	ETR	PWR - WEST WALL SIGN	A	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	INTERIOR LTG - DINING - ZONE j	P1-29	12
13	ETR	PWR - FIRE PLACE SIGN	A	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	RCPT - CHRISTMAS LTG	P1-35	14
15	ETR	RCPT - PATIO FANS	D	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	INTERIOR LTG - BAR 1 - ZONE o	P1-31	16
17	ETR	PWR - MONUMENT SIGN NORTH	A	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	INTERIOR LTG - DINING - ZONE r	P1-31	18
19	ETR	RCPT - FRONT BUILDING CONV.	E	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	SPARE		20
21	ETR	RCPT - NE BLDG CONV.	E	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	SPARE		22
23	ETR	RCPT - PATIO CONV. 1	E	NORMAL	NO	120	1	1	120	0-10V	NORMAL	N	INTERIOR LTG - BAR 2 - ZONE w	P-31	24
25	L-21	INTERIOR LTG - WAITING - ZONE a	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	N	INTERIOR LTG - WAITING ZONE b	L-21	26
27	L-21	INTERIOR LTG - WAITING - ZONE d	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	F	LTG - CANOPY ENTRANCE	ETR	28
29	L-21	INTERIOR LTG - ENTRY - ZONE e	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	G	LTG - CANOPY PATIO	ETR	30
31	L-21	INTERIOR LTG - DINING - ZONE h	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	H	LTG - SCONCES	ETR	32
33	L-21	INTERIOR LTG - DINING - ZONE k	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	J	LTG - WALL PACKS	ETR	34
35	L-21	INTERIOR LTG -KITCHEN- ZONE l	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	B	LTG - SITE POLES	ETR	36
37	L-21	INTERIOR LTG -BAR 1- ZONE n	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	B	LTG - SITE POLES	ETR	38
39	L-21	INTERIOR LTG - DINING- ZONE p	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	B	LTG - SITE BOLLARDS	ETR	40
41	L-19	INTERIOR LTG - DINING - ZONE s	N	NORMAL	0-10V	277	1	1	277	0-10V	NORMAL	N	INTERIOR LTG - BAR 2 - ZONE y	L-19	42
43	ETR	LTG - SITE POLES	B	NORMAL	0-10V	277	1	1	277	0-10V	EMERGENCY	F	LTG - CANOPY ENTRANCE	ETR	44
45	ETR	LTG - SITE POLES	B	NORMAL	0-10V	277	1	1	277	0-10V	EMERGENCY	G	LTG - CANOPY PATIO	ETR	46
47	ETR	LTG - SITE POLES	B	NORMAL	0-10V	277	1	1	277	0-10V	EMERGENCY	J	LTG - WALL PACKS	ETR	48

GENERAL: GRAPHIC DISPLAY WITH LED BACKLIGHT, BUTTON INTERFACE, USB INTERFACE, TIME OF DAY CLOCK AND ASTRONOMICAL CLOCK, BUILT-IN NETWORK INTERFACE,
PROGRAMMABLE SCHEDULE PER RELAY OR CUSTOMIZABLE GROUPS, LOCAL OR NETWORK PROGAMMING, LOCAL MANUAL ON/OFF OVERRIDE WITH POSITION INDICATION,
PHYSICALLY SEPARATED LOW VOLTAGE COMPARTMENT, DIMMING PROTOCOLS AS INDICATED,
FIRE ALARM SYSTEM CONTACTS TO FORCE LIGHTING CONTROL SYSTEM INTO EMERGENCY LIGHTING MODE

NOTES: VB1 = PROVIDE VOLTAGE BARRIER BETWEEN NORMAL AND EMERGENCY POWER CIRCUITS
VB2 = PROVIDE VOLTAGE BARRIER BETWEEN 120V AND 277V POWER CIRCUITS
PC = LOAD CONTROLLED VIA PHOTOCELL
TC = LOAD CONTROLLED VIA TIMECLOCK

CONTROL SCHEDULE:

A. EXTERIOR - SIGNAGE	TC/PC
B. EXTERIOR - SITE LIGHTING	TC/PC, PROGRAM CIRCUIT SUCH THAT FIXTURES DIM TO 50% OR TURN OFF 1 HOUR AFTER BUSINESS CLOSES. CONFIRM WITH OWNER
C. EXTERIOR - CAFÉ LIGHTS	TC/PC, PROGRAM CIRCUIT SUCH THAT FIXTURES TURN OFF 1 HOUR AFTER BUSINESS CLOSES.
D. EXTERIOR - PATIO FANS	TC
E. EXTERIOR - CONV.	TC
F. EXTERIOR - CANOPY ENTRANCE	TC/PC, PROGRAM CIRCUIT SUCH THAT FIXTURES DIM TO 50% 1 HOUR AFTER BUSINESS CLOSES.
G. EXTERIOR - CANOPY PATIO	TC/PC, PROGRAM CIRCUIT SUCH THAT FIXTURES DIM TO 50% 1 HOUR AFTER BUSINESS CLOSES.
H. EXTERIOR - SCONCES	TC/PC, PROGRAM CIRCUIT SUCH THAT FIXTURES TURN OFF 1 HOUR AFTER BUSINESS CLOSES.
J. EXTERIOR - WALL PACKS	TC/PC, PROGRAM CIRCUIT SUCH THAT FIXTURES DIM TO 50% 1 HOUR AFTER BUSINESS CLOSES.
K. EXTERIOR - RADIANT HEATERS	TC
M. EXTERIOR - EXHAUST FAN	TC
N. INTERIOR - LIGHTING	TC/ REFERENCE LIGHTING PLAN FOR LIGHT FIXTURE ZONES NOTED WITH A LOWER CASE LETTER AT EACH FIXTURE AND WALL MOUNTED LIGHTING CONTROL DEVICE.

* CONTROL SCHEDULES ARE FOR REFERENCE ONLY. CONFIRM CONTROL SCHEDULE FOR EACH RELAY WITH OWNER PRIOR TO PROGRAMMING.

GENERAL NOTES (TYPICAL ALL SHEETS)

A. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.

B. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.

C. REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS.

D. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.

E. PROVIDE UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.

F. CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS.

G. CONTRACTOR SHALL PROVIDE ANY REQUIRED PATCH PANELS, RACK ACCESSORIES, ETC... TO MAKE ALL DATA/VOICE CLOSET TERMINATIONS INDICATED. COORDINATE WITH OWNERS TELECOMMUNICATIONS REPRESENTATIVE.

H. SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.

I. CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.

J. REPAIR AND/OR REPLACE ANY DAMAGED CEILING TILE OR GRID DUE TO INSTALLATION OF CONDUITS, ETC. ABOVE EXISTING CEILING. WALK BUILDING WITH ARCHITECT PRIOR TO COMMENCING WORK TO NOTE ANY EXISTING DAMAGED CEILING TILE OR GRID.

K. DISCONNECTS FOR MECHANICAL EQUIPMENT ARE PROVIDED BY OTHERS. UNLESS NOTED OTHERWISE.

L. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID ALL COSTS ASSOCIATED WITH FIRE ALARM MODIFICATIONS. THIS WORK SHALL INCLUDE POWER EXTENDER PANEL, SMOKE DETECTORS, HORN/STROBES, PULL STATIONS, REMOTE INDICATING LIGHTS AND ANY OTHER FIRE ALARM WORK SHOWN ON PLANS. ALL WIRING, PLENUM RATED CABLING, BETWEEN DEVICES SHALL BE INCLUDED IN WORK TO PROVIDE AN OPERATIONAL EXTENSION OF THE EXISTING FIRE ALARM SYSTEM.

M. ALIGN ALL WIRING DEVICES IN VERTICAL ALIGNMENT. IF ANY DEVICE(S) ARE FOUND NOT TO BE INSTALLED PER DETAIL CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED COSTS ASSOCIATED WITH THE RELOCATION(S).

N. LIGHTING INDICATED ABOVE EXIT DISCHARGE DOOR IS FOR MEANS OF EGRESS ILLUMINATION PER IBC 1006.1.

O. MEANS OF EGRESS TO BE ILLUMINATED AT NOT LESS THAN 1 FOOTCANDLE AT THE FLOOR. CONTRACTOR SHALL PROVIDE AND INSTALL IF NECESSARY ADDITIONAL EMERGENCY FIXTURES IF NECESSARY TO MEET THE REQUIRED READINGS.

P. PROVIDE FIRE STOP ON ALL PIPING AT FLOOR PENETRATIONS PER LOCAL CODE REQUIREMENTS. METHOD OF FIRE STOP SHALL MEET WALL RATING. RE: ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. PROVIDE FIRE CAP HOUSING FOR ALL FIXTURES THAT PENETRATE FIRE RATED CEILINGS.

Q. CONDUIT SHALL BE USED FOR CONDUCTORS WHERE REQUIRED BY N.E.C.

R. OUTLETS INSTALLED IN FIRE RATED ASSEMBLES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".

S. CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENING IN RATED ASSEMBLES PER MANUFACTURERS RECOMMENDATIONS PER FIRE RATED ASSEMBLES.

T. INSTALL FIRE ALARM DEVICES THAT COMPLY WITH APPLICABLE CODES. INCLUDING BUT NOT LIMITED TO THE NFPA, UL, ADA, IBC OR ANY OTHER AUTHORITIES HAVING JURISDICTION.

U. WHERE MORE THAN ONE SWITCH IS INDICATED ON DRAWINGS SIDE BY SIDE, CONTRACTOR SHALL INSTALL SWITCHES UNDER ONE COMMON FACE PLATE.

V. FIRE ALARM CONTRACTOR IS RESPONSIBLE OF TESTING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEETS A MINIMUM OF 15 DBA ABOVE AMBIENT NOISE LEVELS. AFTER INSTALLATION AND BEFORE CERTIFICATE OF OCCUPANCY. ADD HORNS WHERE REQUIRED TO MAINTAIN MINIMUM LEVELS.

W. CONTRACTOR SHALL PROVIDE HIS/HER OWN SUPPORTING OF CABLING FROM STRUCTURE ABOVE, I.E. TEMPERATURE CONTROL WIRING, SECURITY CONTROL WIRING, FIRE ALARM CONTROL WIRING, OR ANY OTHER WIRING CONTAINING VOLTAGE. CONTRACTOR SHALL NOT RUN PARALLEL WITH OR BE SUPPORTED BY ANY UTP, COAX OR VIDEO CABLING (CABLES INDICATED ON TECHNOLOGY DRAWINGS). IF CABLES ARE FOUND TO BE SUPPORTED WITH THESE CABLES, CONTRACTOR SHALL REMOVE CABLES, REROUTE AND RE-SUPPORT AT THEIR OWN EXPENSE. IF UTP CABLES ARE DAMAGED WHILE EITHER INSTALLING OR REMOVING SUCH CABLES, THE CONTRACTOR(S) THAT DID SUCH DAMAGE SHALL COVER COST TO REPLACE CABLES AT THEIR OWN EXPENSE.

X. WHERE THE DRAWINGS INDICATE DEDICATED CIRCUITRY WITH NO SHARED NEUTRALS, THE CONTRACTOR SHALL NOT INSTALL MULTI-WIRE BRANCH CIRCUITS WITH A COMMON NEUTRAL.

ELECTRICAL SYMBOLS

BRANCH CIRCUIT CONCEALED IN CEILING OR WALL, ARROWS INDICATED HOMERUNS TO PANEL, ALL CONDUCTORS ARE NOTED IN PANEL SCHEDULE
PHASE CONDUCTORS
NEUTRAL CONDUCTORS
GROUND CONDUCTORS
LP1-10 — PANEL - BREAKER NUMBER (IDENTIFICATION)
1,3 OR 1,3,5 — INDICATES X,X= 2-POLE C.B. OR X,X,X= 3-POLE C.B.
5 3 1 — HOMERUN INDICATED LIKE THIS INDICATES THREE SEPARATE CIRCUITS
CONDUIT CONCEALED IN CEILING OR WALL WITH THREE CONDUCTORS: 1-PHASE, 1-NEUTRAL, 1-GROUND WIRE, MINIMUM NO.12 WIRE UNLESS OTHERWISE SPECIFIED ON PLANS
CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB
GROUNDING CONDUCTOR, MINIMUM NO. 12 WIRE EXCEPT AS NOTED
EXIT SIGN, SINGLE FACED, ARROWS AS SHOW ON PLANS, SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT
EXIT SIGN, DOUBLE FACED, ARROWS AS SHOW ON DRAWING, SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT
COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT, CEILING OR WALL MOUNTED, SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT
CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY AND UNIT MOUNTED HEADS
A OR A — LIGHT FIXTURE; LETTER DENOTES FIXTURE TYPE
AE AE — LIGHT FIXTURE ON EMERGENCY POWER OR WITH INTEGRAL EMERGENCY BALLAST; REFER TO FIXTURE SCHEDULE FOR TYPE
M M — FLUORESCENT STRIP FIXTURE
WALL WASH OR RECESSED CEILING LIGHT FIXTURE
WALL MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
PENDANT MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
TRACK LIGHTING, SIZE AND TYPE AS NOTED
INDIRECT/DIRECT LIGHT FIXTURE, SIZE AND TYPE AS NOTED
MOTOR
208Y/120V OR 120/240V PANELBOARD (SURFACE), TOP MOUNTED 6'-0" AFF
208Y/120V OR 120/240V PANELBOARD (FLUSH), TOP MOUNTED 6'-0" AFF
480/277V PANELBOARD (SURFACE), TOP MOUNTED 6'-0" AFF
480/277V PANELBOARD (FLUSH), TOP MOUNTED 6'-0" AFF
DISTRIBUTION PANEL (SURFACE OR FLOOR MOUNTED)
SURFACE MOUNTED EQUIPMENT, TYPE AS INDICATED ON PLANS
FLUSH MOUNTED EQUIPMENT, TYPE AS INDICATED ON PLANS
DISCONNECT SWITCH, SIZE AND TYPE AS NOTED, TOP MOUNTED 5'-0" AFF
S — SINGLE POLE SWITCH, +3'-10" AFF TO CENTERLINE OF DEVICE BOX
S^3 — THREE-WAY SWITCH, +3'-10" AFF TO CENTERLINE OF DEVICE BOX
S^D — DIMMER SWITCH MOUNTING HEIGHT TO CENTERLINE OF DEVICE BOX; WATTAGE AS NOTED ON PLANS
S^{MS} — MOTION SENSOR SWITCH, +3'-10" AFF TO CENTERLINE OF DEVICE BOX
a,b,c,d — SWITCH DESIGNATION
PUSH BUTTON, +3'-10" AFF
INDICATES RECEPTACLE ABOVE COUTERTOP. RE: PLANS
DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED
DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION,+ 1'-6" AFF OR AS NOTED
WP — GFI DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE, HEIGHT AS NOTED
DOUBLE DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED
HEAVY DUTY RECEPTACLE; VOLTAGE, PHASE AND AMPS AS NOTED, +1'-6" OR AS NOTED
H — DUPLEX RECEPTACLE, MOUNTED HORAZONTALLY
ROUND POKE-THRU WITH TYPE INDICATED, SEE SPECS.
J OR J — WALL OR CEILING MOUNTED JUNCTION BOX
TV — CATV JUNCTION BOX WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING, +1'-6" AFF OR AS NOTED
DATA/VOICE OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING, +1'-6" AFF OR AS NOTED
DATA/VOICE OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING, INSTALLED ABOVE COUNTERTOP
FIRE ALARM STROBE LIGHT, +6'-8" AFF
FIRE ALARM STROBE LIGHT, CEILING MOUNTED
FIRE ALARM COMBINATION AUDIBLE/VISUAL WALL MOUNTED, +6'-8" AFF
FIRE ALARM COMBINATION AUDIBLE/VISUAL CEILING MOUNTED (FLUSH)
F — FIRE ALARM MANUAL PULL STATION, +3'-10" AFF
INDICATES WIRING DEVICE ABOVE, RE: DRAWING
AHU-1 — MECHANICAL EQUIPMENT CALL OUT
+3'-10" — HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR
NL — NIGHT LIGHT FIXTAURE, UNSWITCHED HOT FOR 24/7 OPERATION
AFF — ABOVE FINISHED FLOOR
ETR — EXISTING TO REMAIN
FA — FIRE ALARM

FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

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L|F+a Project No. 25.7849.00

CLIENT
Q39

PROJECT TITLE
Q39 RESTAURANT
LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER
62500003

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

PROFESSIONAL SEAL
STATE OF MISSOURI
PROFESSIONAL ENGINEER
11.17.2025

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
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SHEET NAME
ELECTRICAL SCHEDULES, GENERAL NOTES, & SYMBOLS

SHEET NUMBER
E601

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AS NOTED ON PLANS REVIEW
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FIRE PROTECTION LEGEND

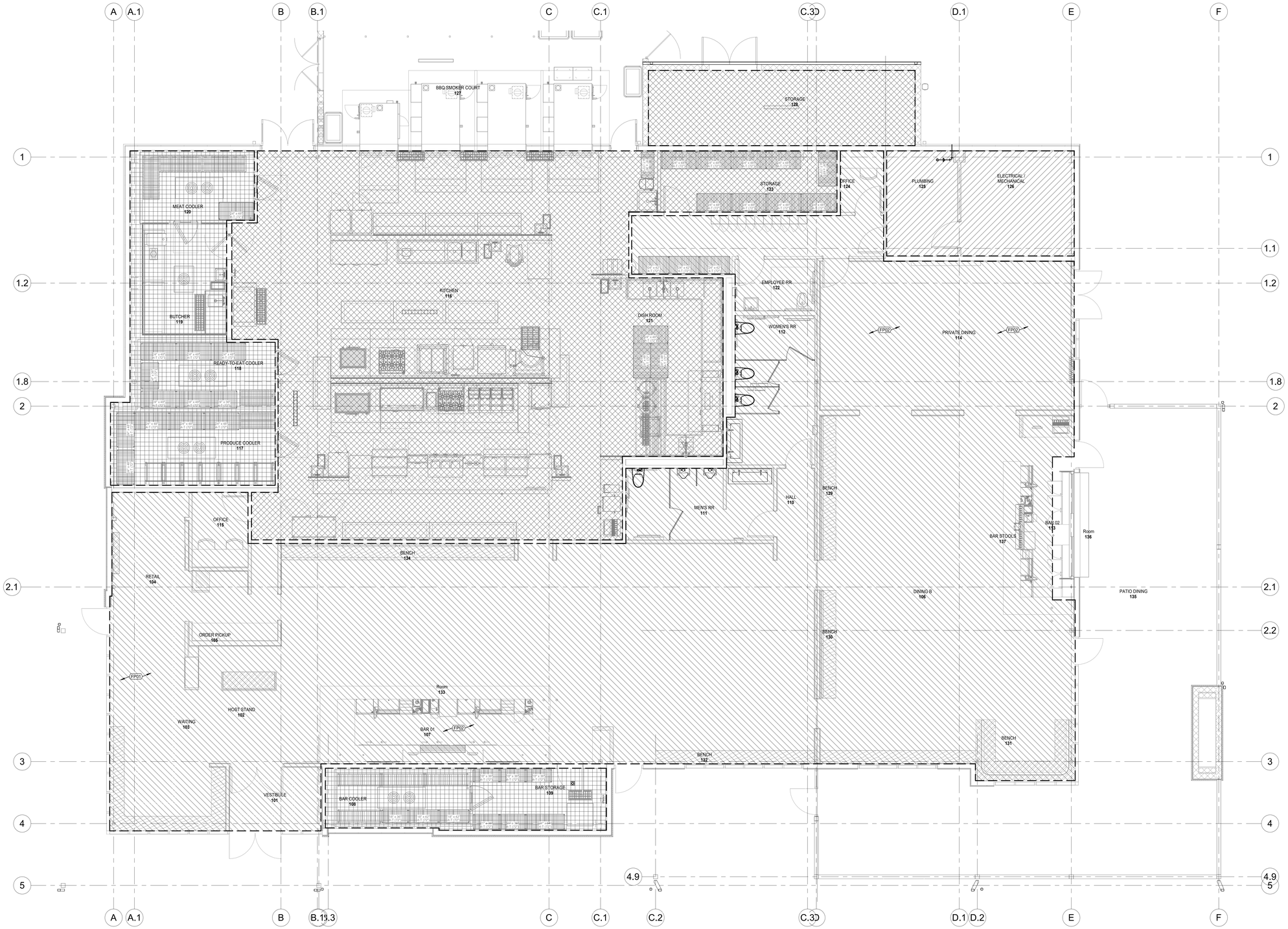
PROVIDE PROPER COVERAGE PER FPA 13 AND LOCAL AUTHORITIES. REFER TO REFLECTED CEILING PLANS FOR COORDINATION WITH LIGHTS, DIFFUSERS, EXIT SIGNS, ETC.

- 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.
- ORDINARY HAZARD GROUP 2 - PROVIDE DRY PENDENT SPRINKLERS FOR ALL WALK-IN COOLERS AND FREEZERS.

FP FLOOR PLAN NOTES

FP01 PROVIDE ADDITIONAL FIRE SPRINKLERS ABOVE AND BELOW FLOATING CEILINGS IN ACCORDANCE WITH NFPA 13.

FP02 PROVIDE ADDITIONAL FIRE SPRINKLERS ABOVE AND BELOW ALL WOOD SLAT CEILINGS TO PROTECT CONCEALED COMBUSTIBLE SPACE IN ACCORDANCE WITH NFPA 13.8.15. CONCEALER SPRINKLER PLATES TO MATCH WOOD FINISH PER ARCHITECT'S DIRECTION.



PLAN

FLOOR PLAN - FIRE PROTECTION

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

11/17/2025 4:12:15 PM

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LFA Project No: 25.TMH.00

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LEE'S SUMMIT, MO
OLDHAM VILLAGE

PROJECT NUMBER

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STATE OF MISSOURI
NUMBER PE-2009018227
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FLOOR PLAN - FIRE PROTECTION

SHEET NUMBER

FP100

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GENERAL FOOD SERVICE AND HEALTH CODE REQUIREMENTS

1. FOODSERVICE EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE CURRENT EDITION OF CODES, RULES, AND REGULATIONS OF THE GOVERNING HEALTH DEPARTMENT AUTHORITIES AND SHALL BE MANUFACTURED IN STRICT COMPLIANCE WITH AND, IF APPLICABLE, BEAR THE SEAL OF UL, NEMA, ASME, NSF, NSF7, ETL, AGA, OSHA AND NFPA. ACCEPTANCE OF FOODSERVICE AREAS IS SUBJECT TO FINAL INSPECTION BY THE GOVERNING HEALTH DEPARTMENT.
2. CEILING AND WALL SURFACES ADJACENT TO OR ABOVE ANY FOODSERVICE AREA, RESTROOM, AND ANTE-ROOM SHALL BE SMOOTH, NON-ABSORBENT, EASILY CLEANABLE, AND LIGHT IN COLOR. ANY MATERIALS NOT CLEARLY CONSISTENT WITH THIS REQUIREMENT SHOULD BE SUBMITTED TO THE GOVERNING HEALTH DEPARTMENT FOR PRIOR APPROVAL OF USE. LAY-IN CEILING TILE MUST BE NON-POROUS AND NON-FISSURED PANELS ONLY. A CORROSION RESISTANT SUSPENSION SYSTEM IS RECOMMENDED.
3. FLOORING IN ANY FOODSERVICE AREA, RESTROOM, AND ANTE-ROOM SHALL BE SMOOTH, NON-ABSORBENT, AND EASILY CLEANABLE WITH MINIMUM 3/8" COVE BASE EXTENDING UPWARD MINIMUM 6" AT WALLS OR AS DIRECTED BY THE GOVERNING HEALTH DEPARTMENT.
4. WHERE MOP SINKS ARE INDICATED, DO NOT PROVIDE FINISH FLOORING OR COVE BASE ON WALLS BEHIND OR THE AREA DIRECTLY BENEATH SINK. UNIT SHALL INSTALL FLUSH TO ADJACENT WALLS WITH COVE BASE AT ALL EXPOSED EXTERIOR SIDES OF MOP SINK.
5. BUILDING SURFACES AT AND AROUND FOODSERVICE COUNTERS IN PUBLIC SERVING AREAS SHALL MEET THE FINISH REQUIREMENTS OF THE GOVERNING HEALTH DEPARTMENT.
6. CONSTRUCT PARTITION WALLS BETWEEN FOODSERVICE AREAS AND PUBLIC AREAS FOR MAXIMUM SOUND CONTROL WHERE APPLICABLE.
7. LIGHTING IN FOODSERVICE AREAS SHALL MEET THE MINIMUM FOOT-CANDLE REQUIREMENTS ESTABLISHED BY THE AUTHORITIES HAVING JURISDICTION.
8. LIGHTING AND INFRARED/HEAT LAMPS IN AREAS OVER FOOD CONTACT SHALL HAVE LAMP GUARDS/SLEEVES, SOLID PLASTIC LENSES, OR APPROVED SHATTER RESISTANT COATED BULBS.
9. BACKSPLASHES, WHEN PROVIDED WITH EQUIPMENT, SHALL BE SEALED TO WALLS WITH SILICONE IN A NEAT WORKMANLIKE MANNER OR AS DIRECTED BY THE GOVERNING HEALTH DEPARTMENT. SEALANT MUST BE APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF).
10. SEAMS AND GAPS BETWEEN NON-PORTABLE FOODSERVICE EQUIPMENT AND ADJACENT STRUCTURES SHALL BE PROPERLY SEALED AGAINST THE ENTRANCE OF FOOD PARTICULATES AND VERMIN WITH NSF APPROVED SILICONE SEALANT AND/OR TRIM OR AS DIRECTED BY THE GOVERNING HEALTH DEPARTMENT.
11. EQUIPMENT PLACED ON TABLES AND COUNTERS SHALL BE COMPLETELY SEALED TO WORK SURFACE OR MOUNTED ON LEGS NO LESS THAN 4 INCHES IN HEIGHT IF EQUIPMENT WEIGHS MORE THAN 75 POUNDS.
12. ALL FOODSERVICE EQUIPMENT RESTING ON THE FLOOR SHALL BE COMPLETELY SEALED TO FLOOR, MOUNTED ON MINIMUM 6” HIGH LEGS, MOUNTED ON CASTERS, INSTALLED ON A RAISED CURB WITH COVED BASE, OR INSTALLED AS DIRECTED BY THE GOVERNING HEALTH DEPARTMENT.
13. EMPLOYEE LOCKERS SHALL HAVE MINIMUM 6" HIGH ROUND METAL LEGS OR MOUNTED TO THE WALL WITH MINIMUM 6" AFF CLEAR.
14. UNDERBAR SINKS SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING HEALTH DEPARTMENT.
15. WAREWASH SINKS SHALL HAVE THREE COMPARTMENTS SIZED TO SUBMERGE THE LARGEST KITCHEN VESSEL AND MINIMUM 18" DRAINBOARD ON BOTH ENDS. SPLASHGUARDS SHALL BE PROVIDED AS REQUIRED BY THE GOVERNING HEALTH DEPARTMENT.
16. DISHWASHERS SHALL BE CHEMICAL OR HIGH TEMPERATURE SANITIZING. HIGH TEMPERATURE MACHINES MUST BE DESIGNED WITH A FINAL RINSE TEMPERATURE OF 180°F AND WASH CYCLE TEMPERATURE OF 160°F.
17. ALL REFRIGERATION EQUIPMENT SHALL HAVE THERMOMETERS WHICH ARE EASILY READABLE, IN PROPER WORKING CONDITION, AND ACCURATE WITHIN PLUS OR MINUS 2°.
18. VACUUM BREAKERS, WHEN REQUIRED, SHALL BE A MINIMUM OF 6 INCHES ABOVE THE FLOOD LEVEL RIM WITH NO SHUT OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
19. WATER FILTRATION DEVICES SHALL NOT BE LOCATED DIRECTLY ABOVE FOODSERVICE EQUIPMENT OR FIXTURES WHERE DIRECTED BY THE AUTHORITIES HAVING JURISDICTION.
20. DEDICATED HANDWASHING FACILITIES SHALL BE LOCATED WITHIN REQUIRED PROXIMITY AND ACCESSIBILITY OF ALL FOODSERVICE AREAS.
21. UTILITY FAUCETS AT MOP SINK(S) SHALL HAVE BACKFLOW PROTECTION AND SHALL BE THREADED FOR HOSE ATTACHMENT.CHEMICAL DISPENSING SYSTEMS SHALL NOT BE PLUMBED TO THE FAUCET.
22 AIR CURTAIN(S) SHALL HAVE MINIMUM 1600 CFM VELOCITY MEASURED 3'-0" AFF AND SHALL OPERATE VIA DOOR ACTIVATED MICROSWITCH.

GENERAL CONDITIONS

1 THESE DOCUMENTS ARE AN INSTRUMENT OF PROFESSIONAL SERVICE PROVIDED BY THE KITCHEN DESIGN CONSULTANT. MODIFICATION TO THESE DOCUMENTS WITHOUT PRIOR WRITTEN AUTHORIZATION IS EXPRESSLY PROHIBITED.
2 THE KITCHEN DESIGN CONSULTANT IS NOT LICENSED OR CERTIFIED TO PROVIDE ARCHITECTURAL, MECHANICAL, ELECTRICAL, HVAC, OR STRUCTURAL ENGINEERING SERVICES AND EXPRESSLY DISCLAIMS ANY RESPONSIBILITY AND LIABILITY THEREFOR. THESE DOCUMENTS ARE INTENDED TO BE INCORPORATED INTO THE CONSTRUCTION DOCUMENTS OF A LICENSED ARCHITECT OR ENGINEER.
3 ANY FEES ASSOCIATED WITH DOCUMENT SUBMITTALS, INCLUDING BUILDING PERMITS THAT MAY BE REQUIRED UNDER FEDERAL, STATE, AND/OR LOCAL LAWS/CODES ARE EXPRESSLY NOT INCLUDED BY THE KITCHEN DESIGN CONSULTANT.
4 GENERAL CONTRACTOR, SUBDIVISIONS, AND/OR OWNER(S) SHALL NOTIFY THE KITCHEN DESIGN CONSULTANT OF ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND FIELD VERIFIED BUILDING CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
5 EQUIPMENT LISTED AS EXISTING, BY OTHERS, OR BY OWNER MUST BE VERIFIED BY THE GENERAL CONTRACTOR AND/OR SUBDIVISIONS FOR FINAL CONFIRMATION OF UTILITY, INSTALLATION, AND SIZE REQUIREMENTS.

REFRIGERATION GENERAL REQUIREMENTS

1. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE FLOOR REQUIREMENTS AND/OR SLAB RECESS(ES) AT WALK-IN COOLERS AND FREEZERS AS SPECIFIED.
2. EVAPORATOR CONDENSATE DRAIN LINE(S) SHALL BE REFRIGERATION GRADE HARD COPPER USING 1" STANDOFFS. "P" TRAP DRAIN OUTSIDE WALK-IN COMPARTMENT(S). PROVIDE AND INSTALL SLEEVES THRU WALK-IN AND BUILDING WALLS FOR DRAIN LINE(S). FOAM & CAULK AROUND SLEEVES AND DRAIN LINES. WRAP WITH DRAIN LINE HEATER AND INSULATION WHERE SUBJECT TO FREEZING TEMPERATURES.
3. KEC (SECTION 114000) SHALL FURNISH AND INSTALL METAL CLOSURE PANELS & TRIM TO MATCH WALK-IN FACING WHERE WALK-IN ABUTS BUILDING WALLS AND CEILINGS.
4. BUILDING FLOOR UNDER WALK-IN MUST BE SMOOTH AND LEVEL WITHIN PLUS OR MINUS 1/8".
5. REFRIGERATION CONTRACTOR SHALL VERIFY LOCATION OF CONDENSING UNIT(S) PRIOR TO INSTALLATION.
6. INDOOR RACK SYSTEMS SHALL REQUIRE MECHANICAL VENTILATION OF NOT LESS THAN 800 CFM PER H.P. FOR AIR-COOLED UNITS AND 250 CFM PER H.P. FOR WATER-COOLED UNITS UNLESS DIRECTED OTHERWISE BY MANUFACTURER'S RECOMMENDATIONS.
7. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL COORDINATE CLEARANCE REQUIREMENTS OF ROOFTOP REFRIGERATION UNIT(S) FROM BUILDING EDGES AND OTHER ROOFTOP MECHANICAL UNITS AS DIRECTED BY CODE.
8. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE STRUCTURAL REINFORCEMENT TO BUILDING AS REQUIRED FOR HANGING AND/OR MOUNTING OF REFRIGERATION EQUIPMENT. COORDINATE EQUIPMENT LOCATION(S) WITH REFRIGERATION CONTRACTOR.
9. ALL ROOF MATERIAL/FLASHING AND REQUIRED ROOF PENETRATION(S) FOR REFRIGERATION SYSTEMS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR SUBDIVISIONS.
10. REFRIGERATION CONTRACTOR SHALL PITCH OR SEAL PENETRATIONS THRU PIPE CURB(S) WITH TAR UPON INSTALLATION OF REFRIGERATION LINES.
11. REFRIGERATION CONTRACTOR SHALL FURNISH REFRIGERATION PIPING AND INSTALL CONDENSERS, CONDENSING UNITS, AND EVAPORATOR COILS. REFRIGERATION CONTRACTOR TO CHARGE, START-UP, RUN, AND CHECK FOR PROPER OPERATING TEMPERATURES.
12. REFRIGERATION CONTRACTOR SHALL FURNISH AND INSTALL FLEXIBLE CLOSED CELL INSULATION ON REFRIGERATION LINES TO PREVENT CONDENSATION.
13. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL COORDINATE ACCESSIBILITY OF REFRIGERATION PIPING TO CONDENSING UNITS (THRU MULTIPLE FLOORS WHERE REQ'D) WITH REFRIGERATION CONTRACTOR.
14. REFRIGERATION LINES TO BE CONCEALED WITHIN WALLS, ABOVE CEILINGS, AND BENEATH FLOORS WHERE POSSIBLE. REFRIGERATION CONTRACTOR TO INSTALL LINE SETS IN WALLS DURING FRAMING.
15. REFRIGERATION CONTRACTOR SHALL FOAM & SEAL INSIDE AND OUTSIDE OF ALL REFRIGERATION PENETRATIONS THRU WALK-IN COOLER/FREEZER(S) AND REMOTE REFRIGERATION UNITS.
16. REFRIGERATION CONTRACTOR SHALL FOAM AND SEAL BOTH ENDS OF CONDUIT (WHERE SPECIFIED) UPON INSTALLATION OF REFRIGERATION LINES.
17. PULL BOXES FOR REFRIGERATION LINES (WHERE SPECIFIED) SHALL BE MINIMUM 12" X 12".
18. KEC (SECTION 114000) FURNISHED REMOTE CONDENSERS/CONDENSING UNITS FOR ICE MACHINES SHALL BE INSTALLED NO FURTHER THAN 75'-0" FROM UNIT OR WITHIN MANUFACTURER'S RECOMMENDED MAXIMUM DISTANCE.
19. REFRIGERATION CONTRACTOR SHALL INSTALL REFRIGERATION LINE SETS FOR ICE MACHINES.

VENTILATION REQUIREMENTS

1C. HVAC/MECHANICAL CONTRACTOR (DIVISION 23) SHALL FURNISH AND INSTALL EXHAUST HOODS, EXHAUST/MAKE-UP AIR FAN(S), CURBS, AND DUCTWORK.
2C STAINLESS STEEL WALL PANELS SHALL BE FURNISHED AND INSTALLED BY OTHERS AT EXHAUST HOOD LOCATION(S) AS INDICATED IN THE DOCUMENTS.
3B. FIRE SUPPRESSION SYSTEM FOR EXHAUST HOODS SHALL BE FURNISHED AND INSTALLED BY HVAC/MECHANICAL CONTRACTOR (DIVISION 23).
4. ALL EXHAUST AND MAKE-UP AIR SYSTEMS FOR EXHAUST HOODS TO BE TESTED AND BALANCED BY THE HVAC/MECHANICAL CONTRACTOR (DIVISION 23).

BEVERAGE SYSTEM GENERAL REQUIREMENTS (DIVISION 26)

1. PROVIDE ELECTRICAL METALLIC TUBING (EMT) OR PVC SCHEDULE 40 ELECTRICAL CONDUIT UNLESS DIRECTED OTHERWISE BY CODE.
2. CONDUIT IS TO BE SMOOTH WITH WATER TIGHT CONNECTIONS AT INTERIOR JOINTS AND AT EXTERIOR PENETRATIONS THROUGH WALLS, CEILINGS, AND FLOORS.
3. ALL CONDUIT BENDS ARE TO BE WIDE SWEEPS WITH 24" MIN. RADIUS. NO 90° OR 45° ANGLES. VERIFY REQUIREMENTS WITH BEVERAGE CONDUIT DETAILS.
4. PROVIDE PULL-BOX FOR OVERHEAD CONDUIT RUNS EVERY 3 BENDS OR 75' - 0". PULL BOXES TO BE INSTALLED WITH REMOVABLE ACCESS PANEL. ACCESSIBILITY THROUGHOUT CONSTRUCTION MUST BE MAINTAINED. SECURE AND TIGHTEN ACCESS PANEL AFTER LINES ARE PULLED AND TESTING IS COMPLETED.
5. THE ELECTRICAL CONTRACTOR (DIVISION 26) SHALL VERIFY FINAL ROUTING OF ALL BEVERAGE CONDUITS AND COORDINATE CONFLICTS WITH ANY NEW OR EXISTING BUILDING CONDITIONS.
6 THE ELECTRICAL CONTRACTOR (DIVISION 26) SHALL VERIFY AND COORDINATE THE EXACT BEVERAGE CONDUIT REQUIREMENTS FOR ALL NIC EQUIPMENT OUTSIDE OF THE KEC (SECTION 114000) SCOPE PRIOR TO FINAL ROUGH-IN.
7 CAP CONDUITS DURING CONSTRUCTION.

PLUMBING GENERAL REQUIREMENTS (DIVISION 22)

1. FOODSERVICE DRAWINGS INDICATE PLUMBING ROUGH-IN/CONNECTION POINTS ONLY FOR EQUIPMENT SPECIFIED UNDER THE KITCHEN EQUIPMENT (SECTION 114000) CONTRACT. ADDITIONAL PLUMBING REQUIREMENTS ARE NOT INDICATED ON FOODSERVICE DRAWINGS. THE PLUMBING CONTRACTOR (DIVISION 22) SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVES, FLOW CONTROLS, BACK FLOW PREVENTION, RPZ (REDUCED PRESSURE ZONE) VALVES, WATER HAMMER ARRESTOR, GATE VALVES, FOR WATER CONNECTIONS AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
2. DIMENSIONS ARE SHOWN FROM FINISHED FLOORS, FINISHED WALLS, AND/OR COLUMN CENTERLINES TO CENTER OF ROUGH-IN. HEIGHTS ARE SHOWN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTER OF ROUGH-IN. A ROUGH-IN "STUB-UP" SHALL EXIT FINISHED FLOOR OR CURB TO HEIGHT AND LOCATION INDICATED.
3. ROUGH-INS, FIELD INTERCONNECTIONS (EXPOSED AND UNEXPOSED), AND FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT SHALL BE PROVIDED BY PLUMBING CONTRACTOR (DIVISION 22).
4. PLUMBING TO BE CONCEALED WITHIN WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE.
5. REUSE PLUMBING SERVICES WHERE APPLICABLE IN EXISTING/REMODELED FOODSERVICE AREAS. CAP OR REMOVE EXISTING SERVICE(S) MADE OBSOLETE BY NEW CONSTRUCTION AS DIRECTED BY CODE.
6. THE PLUMBING CONTRACTOR (DIVISION 22) SHALL VERIFY AND COORDINATE THE EXACT PLUMBING REQUIREMENTS FOR ALL NIC EQUIPMENT OUTSIDE OF THE KEC (SECTION 114000) SCOPE PRIOR TO FINAL ROUGH-IN.
7. DIRECT AND INDIRECT WASTES ARE INDICATED IN FOODSERVICE AREAS. ADDITIONAL DRAINS MAY BE REQUIRED UNDER DIVISION 22.
8. FLOOR SINKS SHALL BE INSTALLED AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION.
9. PROVIDE REMOVABLE GRATES OR COVERS ON PARTIALLY AND FULLY EXPOSED FLOOR SINKS.
10. FLOOR SINKS FOR DISHWASHERS, SCULLERY SINKS, AND WATER-WASH HOODS TO BE A MINIMUM 10" DEEP WITH 3" DRAIN WHERE APPLICABLE.
11. PROVIDE AND ROUTE DRAIN LINES FROM EQUIPMENT TO FLOOR SINKS WITH A MINIMUM 1/4" PER 1'-0" SLOPE. INSULATE DRAIN LINES SUSCEPTIBLE TO CONDENSATION (ICE BINS, REFRIGERATION UNITS, ETC).
12. SUPPORT ALL PLUMBING TIGHT AGAINST UNDERSIDE OF EQUIPMENT TO ALLOW SPACE FOR CLEANING.
13. KEC (SECTION 114000) SHALL FURNISH FAUCETS, BASKET WASTES, TWIST/LEVER WASTES, GAS HOSES, RESTRAINING CABLES, AND VACUUM BREAKER/SAFETY REGULATORS AS SPECIFIED. PLUMBING CONTRACTOR (DIVISION 22) SHALL INSTALL FAUCETS, BASKET WASTES, TWIST/LEVER WASTES, GAS HOSES, RESTRAINING CABLES, AND VACUUM BREAKER/SAFETY REGULATORS WITH THE NECESSARY COMPONENTS AND SUPPLY NIPPLES TO MAKE FINAL CONNECTIONS: INCLUDING THE INSTALLATION OF COMPONENTS NOT SHOWN OR SHIPPED LOOSE.
14. FLOOR AND WALL PENETRATIONS MUST BE SEALED WATER-TIGHT AND VERMIN PROOF.
15. FOODSERVICE EQUIPMENT DRAIN(S) ARE TO BE PIPED TO GREASE TRAP/INTERCEPTOR(S) AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION. FURNISH AND INSTALL GREASE TRAP/INTERCEPTOR(S) AS SPECIFIED BY THE PLUMBING ENGINEER.
16. POTABLE WATER PRESSURE TO FOODSERVICE EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
17. INCOMING GAS PRESSURE AT POINTS OF USE MUST MEET MANUFACTURER'S SPECIFIED WATER COLUMN REQUIREMENTS. INSTALL KEC (SECTION 114000) FURNISHED PRESSURE REGULATORS WHEN SHIPPED LOOSE WITH EQUIPMENT.
18. WATER HEATER(S) SHALL BE SIZED BY THE PLUMBING ENGINEER TO MEET THE CONSUMPTION REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
19. PROVIDE 110 DEGREE F HOT WATER SUPPLY AT THREE-COMPARTMENT SINK(S) OR AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION.
20. UNLESS SPECIFIED AS FURNISHED BY KEC (SECTION 114000), PLUMBING CONTRACTOR (DIVISION 26) SHALL FURNISH AND INSTALL TEMPERATURE REDUCING DEVICES ON DRAIN LINES WHERE DISCHARGE WATER EXCEEDS MAXIMUM ALLOWABLE TEMPERATURE AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION.
21 ALL STEAM AND CONDENSATE CONNECTIONS SHALL BE INSTALLED AS DIRECTED BY CODE. PROVIDE PRESSURE REDUCING VALVES, STEAM TRAPS, SAFETY VALVES, SHUT-OFF VALVES, STRAINERS, WRAP, AND INSULATION AS REQ'D.

FLOOR CURB AND DEPRESSION GENERAL REQUIREMENTS (DIVISION 3, 6, 7, & 9)

1. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE FLOOR RECESS(ES) AND RAISED CONCRETE CURB(S) AS SPECIFIED.
2. FLOOR SLAB RECESS(ES) AND RAISED CONCRETE CURB(S) MUST BE SMOOTH AND LEVEL WITHIN PLUS OR MINUS 1/8".
3. DIMENSIONS ARE SHOWN FROM FINISHED FLOORS, FINISHED WALLS, AND/OR COLUMN CENTERLINES TO FINISHED EDGE OF RAISED CURB AND/OR FLOOR RECESS. HEIGHTS ARE SHOWN FROM FINISHED FLOOR TO FINISHED SURFACE OF RAISED CURB AND/OR FLOOR RECESS.
4. OFFSET CURB 3" MINIMUM AROUND PERIMETER OF FLOOR SINKS WHEN SHOWN WITHIN RAISED CURB(S).
5. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL BACKFILL FLOOR RECESS(ES) AND EXPOSED OPENINGS IN CONCRETE CURBS UPON INSTALLATION OF FOODSERVICE EQUIPMENT.
6. KEC (SECTION 114000) SHALL CONFIRM RAISED CURB FRAMING PRIOR TO POURING OF CONCRETE BY GENERAL CONTRACTOR AND/OR SUBDIVISIONS.
7. GENERAL CONTRACTOR AND/OR SUBDIVISIONS TO FURNISH AND INSTALL INTEGRAL COVE BASE ON RAISED CONCRETE CURB(S) PRIOR TO INSTALLATION OF FOODSERVICE EQUIPMENT.
8. KEC (SECTION 114000) TO PROVIDE MINIMUM 1/2" BORIC ACID IN ENCLOSED CURBS OF FRAME CONSTRUCTION FOR VERMIN CONTROL OR AS ACCEPTABLE BY THE AUTHORITIES HAVING JURISDICTION.

ELECTRICAL GENERAL REQUIREMENTS (DIVISION 26)

1. FOODSERVICE DRAWINGS INDICATE ELECTRICAL ROUGH-IN/CONNECTION POINTS ONLY FOR EQUIPMENT SPECIFIED UNDER THE KITCHEN EQUIPMENT (SECTION 114000) CONTRACT. ADDITIONAL ELECTRICAL REQUIREMENTS ARE NOT INDICATED ON FOODSERVICE DRAWINGS.
2. ROUGH-INS, INTERWIRING, AND FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT SHALL BE COMPLETED BY ELECTRICAL CONTRACTOR (DIVISION 26).
3. FURNISH AND INSTALL ALL NECESSARY COMPONENTS TO MAKE FINAL CONNECTIONS; INCLUDING THE INSTALLATION OF COMPONENTS NOT SHOWN OR SHIPPED LOOSE.
4. VERIFY AVAILABLE BUILDING SERVICES WITH ELECTRICAL REQUIREMENTS OF ALL FOODSERVICE EQUIPMENT.
5. COVER PLATES IN FOODSERVICE AREAS SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
6. COUNTERTOP HEIGHT RECEPTACLES IN FOODSERVICE AREAS SHALL BE INSTALLED HORIZONTALLY.
7. PROVIDE DEDICATED CIRCUITS FOR FOODSERVICE EQUIPMENT.
8. REUSE ELECTRICAL SERVICE WHERE APPLICABLE IN EXISTING/REMODELED FOODSERVICE AREAS. CAP OR REMOVE EXISTING SERVICE(S) MADE OBSOLETE BY NEW CONSTRUCTION AS DIRECTED BY CODE.
9. THE ELECTRICAL CONTRACTOR (DIVISION 26) SHALL VERIFY AND COORDINATE THE EXACT ELECTRICAL REQUIREMENTS FOR ALL NIC EQUIPMENT OUTSIDE OF THE KEC (SECTION 114000) SCOPE PRIOR TO FINAL ROUGH-IN.
10. DIMENSIONS ARE SHOWN FROM FINISHED FLOORS, FINISHED WALLS, AND/OR COLUMN CENTERLINES TO CENTER OF ROUGH-IN. HEIGHTS ARE SHOWN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTER OF ROUGH-IN. A ROUGH-IN "STUB-UP" SHALL EXIT FINISHED FLOOR OR CURB TO HEIGHT AND LOCATION INDICATED.
11. ALL ELECTRICAL CONDUIT TO BE CONCEALED WITHIN WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE.
12. PROVIDE GFCI PROTECTION IN FOODSERVICE AREAS AS DIRECTED BY CODE. GFCI SHALL MEET THE MOTOR RATING AS REQ'D.
13. UNLESS SPECIFIED AS FURNISHED BY KEC (SECTION 114000), ELECTRICAL CONTRACTOR (DIVISION 26) SHALL FURNISH AND INSTALL ACCEPTABLE MEANS OF DISCONNECT FOR ALL ITEMS AS DIRECTED BY CODE.
14. PROVIDE LIQUID TIGHT CONDUIT WHERE EXPOSED IN FOODSERVICE AREAS UNLESS DIRECTED OTHERWISE BY CODE.
15. PROVIDE MINIMUM 6'-0" FLEXIBLE CONDUIT WHIP ON ALL MOBILE OR UNFASTENED FOODSERVICE EQUIPMENT WITH DIRECT CONNECTION(S).
16. CONDUIT PENETRATING WALK-IN REFRIGERATION UNITS SHALL BE INSULATED OR OF MATERIAL TO PREVENT THERMAL TRANSFER. FOAM & SEAL INSIDE AND OUTSIDE OF PENETRATION(S) THRU WALK-IN TO PREVENT CONDENSATION.
17 INSTALL KEC (SECTION 114000) FURNISHED AIR CURTAIN(S) AND MICRO SWITCH(S) WHERE SPECIFIED.

FOODSERVICE ABBREVIATIONS (SECTION 114000)

AFF	ABOVE FINISHED FLOOR	INCL	INCLUDE
ALT	ALTERNATE	INSUL	INSULATE(ION)
AMP	AMPERE	INT	INTERIOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	IW	INDIRECT WASTE
BLDG	BUILDING	JB	JUNCTION BOX
BTC	BRANCH TO CONNECTION	JBH	JUNCTION BOX - HORIZONTALLY MOUNTED
BTU	BRITISH THERMAL UNIT	JBW	JUNCTION BOX - WALL MOUNTED
C&P	CORD AND PLUG	KEC	KITCHEN EQUIPMENT CONTRACTOR
CFM	CUBIC FEET PER MINUTE	KW	KILOWATT HOUR
CL	CENTER LINE	LAM	LAMINATE
CLG	CEILING	LBS	POUNDS
CLR	COOLER	MBTU	1000 BTU/HOUR
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL
COL	COLUMN	MTD	MOUNTED
CW	COLD WATER	N/A	NOT APPLICABLE
DC	DROP CORD	NIC	NOT IN CONTRACT
DFA	DOWN FROM ABOVE	NTS	NOT TO SCALE
DIA	DIAMETER	OC	ON CENTER
DIM	DIMENSION	OD	OUTSIDE DIAMETER
DIV	DIVISION	PC	PLUMBING CONTRACTOR
DR	DUPLEX RECEPTACLE	PH	PHASE
DW	DIRECT WASTE	PLAM	PLASTIC LAMINATE
DWG	DRAWING	PLYWD	PLYWOOD
EA	EACH	PSI	POUNDS PER SQUARE INCH
EC	ELECTRICAL CONTRACTOR	QR	QUAD RECEPTACLE
EQ	EQUAL	QT	QUARRY TILE
EXT	EXTERIOR	QTY	QUANTITY
FD	FLOOR DRAIN	RAD	RADIUS
FIN	FINISH(ED)	RCP	REFLECTED CEILING PLAN
FLR	FLOOR	REQD	REQUIRED
FW	FILTERED WATER	SP	SPECIAL RECEPTACLE
GA	GAUGE	SR	SINGLE RECEPTACLE
GAL	GALLON	SS	STAINLESS STEEL
GALV	GALVANIZED	STD	STANDARD
GC	GENERAL CONTRACTOR	STP	STATIC PRESSURE
GFCI	GROUND FAULT CIRCUIT INTERUPTER	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UDS	UTILITY DISTRIBUTION SYSTEM
HGT	HEIGHT	VAC	VACUUM
HP	HORSEPOWER	VERT	VERTICAL
HVAC	HEATING, VENTILATING, AIR CONDITIONING	WP	WEATHER PROOF
HW	HOT WATER		
ID	INSIDE DIAMETER		
IN	INCH		

FOODSERVICE SHEET LIST

NO.	SHEET NAME
GENERAL	
QF001	FOODSERVICE GENERAL NOTES, LEGENDS, SHEET INDEX 2 3
EQUIPMENT PLANS	
QF100	FOODSERVICE OVERALL PLAN
QF101	FOODSERVICE EQUIPMENT PLAN 3
QF102	FOODSERVICE EQUIPMENT PLANS & SCHEDULES 2 3
PLUMBING ROUGH-INS	
QF201	FOODSERVICE PLUMBING ROUGH-IN PLAN 2 3
QF202	FOODSERVICE PLUMBING ROUGH-IN PLANS & SCHEDULE 2 3
ELECTRICAL ROUGH-INS	
QF301	FOODSERVICE ELECTRICAL ROUGH-IN PLAN 3
QF302	FOODSERVICE ELECTRICAL ROUGH-IN PLANS & SCHEDULE 3
QF303	FOODSERVICE ELECTRICAL DETAILS
SPECIAL CONDITIONS	
QF401	FOODSERVICE SPECIAL CONDITIONS PLAN 3
QF402	FOODSERVICE SPECIAL CONDITIONS PLAN & DETAILS 3

GENERAL CONTRACTOR REQUIREMENTS (DIVISION 3, 6, 7, & 9)

1. GENERAL CONTRACTOR, ARCHITECT, ENGINEER(S), AND/OR OWNER SHALL NOTIFY THE KEC (SECTION 114000) OF ALL ADDENDUMS, BULLETINS, AND CHANGES TO THE BUILDING SPACE WITHIN AND AROUND ANY FOODSERVICE AREA(S) PRIOR TO CONSTRUCTION.
2. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL NOTIFY THE KEC (SECTION 114000) OF ANY DISCREPANCY BETWEEN DRAWINGS, CONSTRUCTION, AND CODE REQUIREMENTS WITH POTENTIAL IMPACT TO THE INSTALLATION OR FABRICATION OF FOODSERVICE EQUIPMENT.
3. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE ACCESS AND PATH OF DELIVERY FOR FOODSERVICE EQUIPMENT TO FINAL LOCATION. COORDINATE REQ'S WITH KEC (SECTION 114000).
4. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE OPENINGS THRU FLOORS, CEILINGS, WALLS, AND ROOFS FOR UTILITY ACCESS, CONDUIT, REFRIGERATION LINES, RISERS, AND DUCTWORK UNLESS SPECIFIED OTHERWISE. OPENINGS SHALL BE DRILLED, CORE-BORED, OR CUT BY AN APPROVED METHOD.
5. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE FIRESTOP AT ALL FIRE-RATED BUILDING PENETRATIONS, SHAFTS, AND ASSEMBLIES AS DIRECTED BY CODE UNLESS SPECIFIED OTHERWISE.
6. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE ACCESS PANELS IN HARD LID CEILINGS FOR ACCESS TO EXHAUST CLEANOUTS, FIRE SUPPRESSION GAS VALVES, PULL BOXES, ETC.
7. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL WALL BLOCKING WHERE WALLS REQUIRE REINFORCEMENT. LENGTHS OF WALL BLOCKING ARE NOMINAL: ALWAYS EXTEND TO THE NEXT STUD IN EACH DIRECTION.
8. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL VERIFY AND PROVIDE STRUCTURAL REINFORCEMENT TO BUILDING AS REQ'D FOR HANGING AND/OR MOUNTING OF KEC (SECTION 114000) FURNISHED EQUIPMENT. COORDINATE EQUIPMENT LOCATION(S) WITH KEC (SECTION 114000) AND PROVIDE CLEAR ACCESS FROM HANGING LOCATION(S) ON EQUIPMENT TO SUPPORT STRUCTURE ABOVE FOR INSTALLATION OF THREADED ROD.
9. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE ADDITIONAL ROOF BRACING AND STRUCTURAL SUPPORT AS REQ'D FOR KEC (SECITON 114000) FURNISHED ROOFTOP REFRIGERATION UNITS, EXHAUST/MAKE-UP AIR FANS, ETC.
10. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE TRAPEZE HANGING SUPPORT FROM BUILDING STRUCTURE TO WITHIN 6'-0" ABOVE ALL EXHAUST HOOD(S) WHERE REQ'D.
11. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE FIRE-RATED SHAFTS AND DUCT WRAP IN ACCORDANCE WITH CODE UNLESS SPECIFIED OTHERWISE.
12. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE NON-COMBUSTIBLE WALL CONSTRUCTION OF MINIMUM 16 GA. METAL STUDS WITHIN 18" OF EXHAUST HOOD(S) OR AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION.
13. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE SPRINKLER PROTECTION IN WALK-IN REFRIGERATION UNITS AS REQ'D BY CODE. FOAM & SEAL INSIDE AND OUTSIDE OF PENETRATION(S) THRU WALK-IN AND PROTECT SPRINKLER SYSTEM AGAINST FREEZING.
14. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE FIRE EXTINGUISHERS AS REQ'D BY CODE UNLESS SPECIFIED AS FURNISHED BY KEC (SECTION 114000).
15. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE SMOOTH CONCRETE SLAB FOR TRASH AND DUMPSTER AREA(S) AS LOCATED BY THE ARCHITECTURAL DRAWINGS.

CUSTOM FABRICATION GENERAL REQUIREMENTS

1. THESE NOTES APPLY TO ITEMS LISTED AS “CUSTOM” FABRICATION AND DO NOT APPLY TO STAINLESS STEEL BUY-OUT ITEMS WITH A MANUFACTURER/BRAND AND MODEL NUMBER.
2. STAINLESS STEEL SHALL BE 18-8, TYPE 304 UNLESS NOTED OTHERWISE.
3. COUNTERTOPS AND SINKS SHALL BE 14 GAUGE UNLESS NOTED OTHERWISE.
4. UNDERSHELVES AND OVERSHELVES SHALL BE 18 GAUGE UNLESS NOTED OTHERWISE.
5. ENCLOSED CABINET BASES SHALL BE 18 GAUGE. DOORS SHALL BE DOUBLE WALL CONSTRUCTION WITH 18 GAUGE EXTERIOR.
6. LEGS SHALL BE 16 GAUGE, 1-5/8” O.D. TUBING WITH STAINLESS STEEL BULLET SHAPED FEET. CROSS-RAILS SHALL BE 16 GAUGE, 1-1/4” O.D. TUBING. ALL JOINTS BETWEEN LEGS, CROSS BRACES, AND UNDERSHELVES TO BE FULLY WELDED, GROUND, AND POLISHED SMOOTH. SPACING BETWEEN LEGS NOT TO EXCEED 5'-0” O.C.
7. REINFORCE TOPS, SHELVES, AND CABINET BASES WITH 14 GAUGE CHANNEL: ONE CENTER CHANNEL UP TO 36” WIDE AND TWO CHANNELS WHEN OVER 36” WIDE. CHANNEL SHALL BE STAINLESS STEEL IN WET AREAS OR WHERE EXPOSED.

TriMark
Foodservice Equipment, Supplies and Design

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14603 W. 112th Street
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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.16.2025	2	BEER TOWER REVISION
10.31.2025	3	OWNER COMMENTS

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

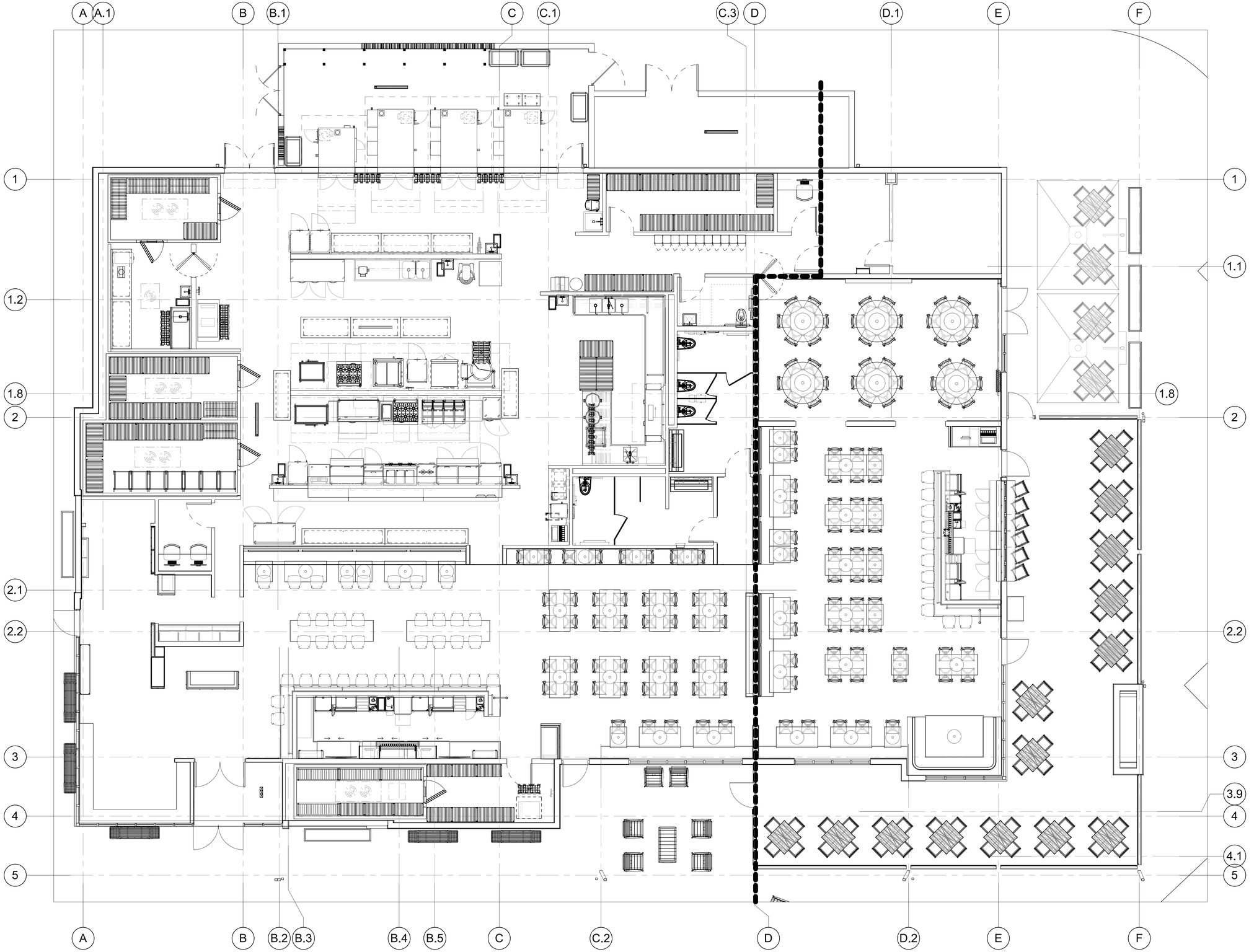
PROJECT PHASE:

DATE:	PROJECT #:
08.29.2025	2025078
DRAWN BY:	APPROVED BY:
JG	ABR

SHEET TITLE:
FOODSERVICE GENERAL NOTES, LEGENDS, SHEET INDEX

SHEET NUMBER:
QF001

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR BIDDING OR PRICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:57



FOODSERVICE OVERALL PLAN

3/16" = 1'-0"

TriMark
Foodservice Equipment, Supplies and Design

North : Hockenbergs
14603 W. 112th Street
Lenexa, KS 66215

p. 913-491-4999

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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET

Q39 RESTAURANT

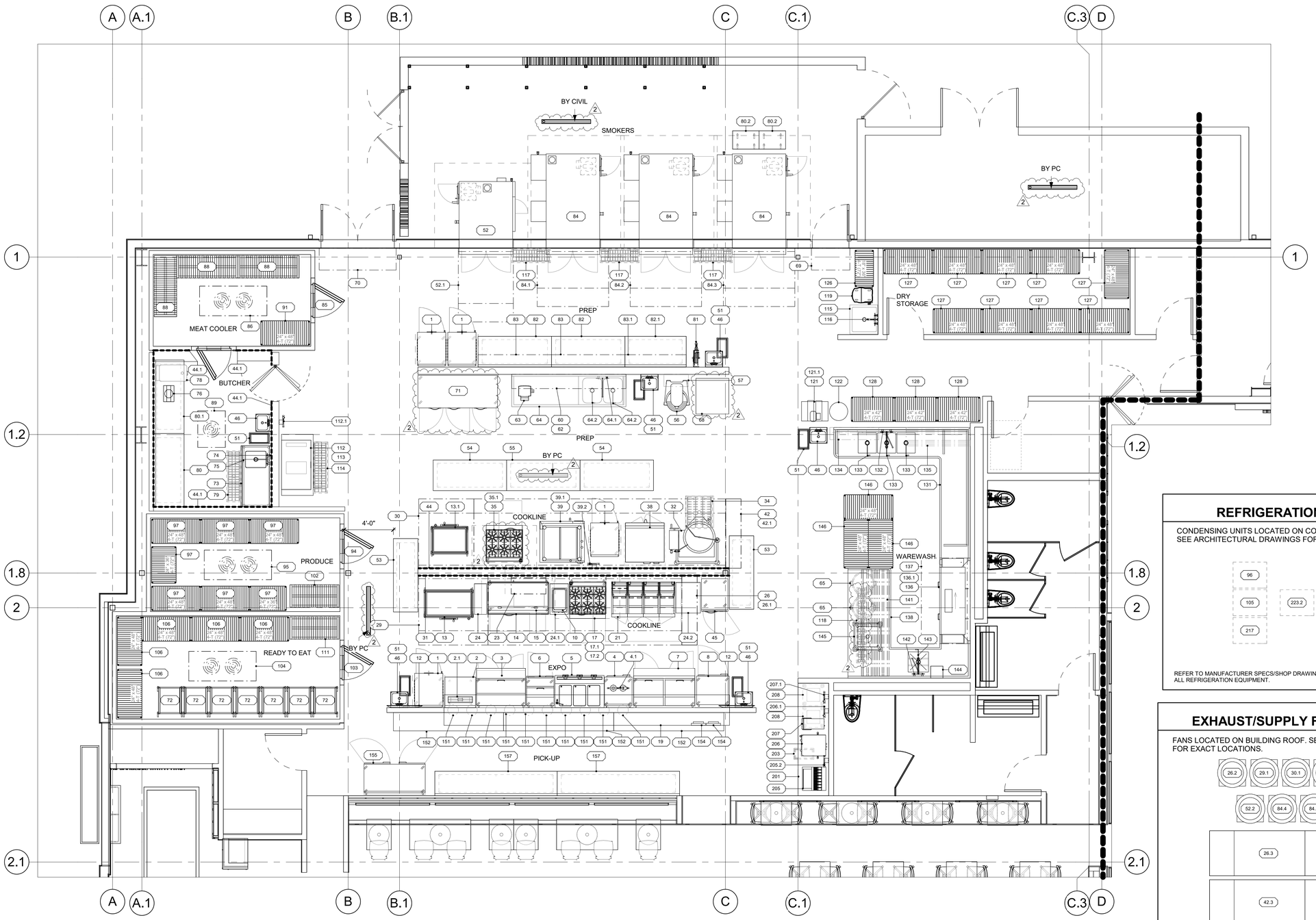
LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:	
DATE: 08.29.2025	PROJECT #: 2025078
DRAWN BY: JG	APPROVED BY: ABR

SHEET TITLE:
FOODSERVICE OVERALL PLAN

SHEET NUMBER:
QF100

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
PERFORMED BY: CITY OF
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:57

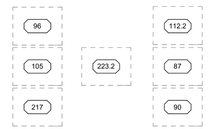


FOODSERVICE EQUIPMENT PLAN

1/4" = 1'-0"

REFRIGERATION EQUIPMENT

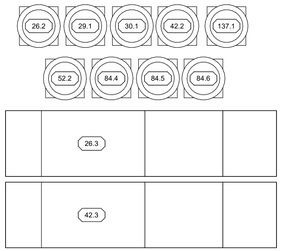
CONDENSING UNITS LOCATED ON CONCRETE SLAB/ BUILDING ROOF. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.



REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL REFRIGERATION EQUIPMENT.

EXHAUST/SUPPLY FAN EQUIPMENT

FANS LOCATED ON BUILDING ROOF. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.



REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL EXHAUST/SUPPLY FANS.

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North : Hockenbergs
14603 W. 112th Street
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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.31.2025	2	OWNER COMMENTS

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:	
DATE: 08.29.2025	PROJECT #: 2025078
DRAWN BY: JG	APPROVED BY: ABR

SHEET TITLE:
FOODSERVICE EQUIPMENT PLAN

SHEET NUMBER:
QF101

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
PERMIT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:58

FOODSERVICE EQUIPMENT SCHEDULE

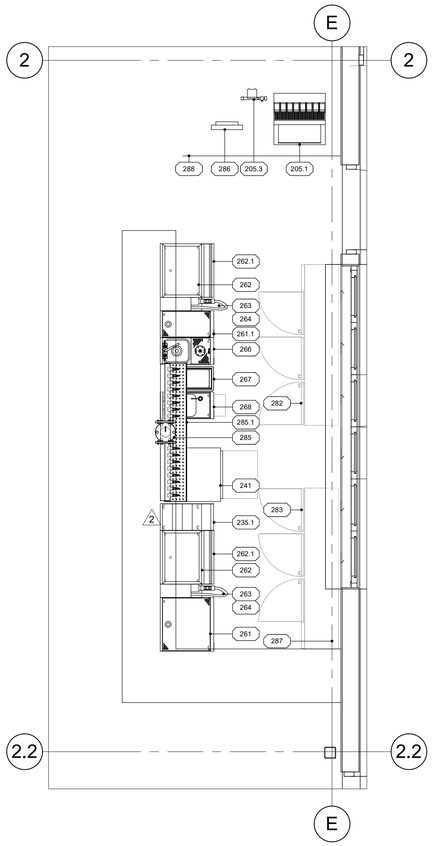
ITEM NO.	QTY.	DESCRIPTION	REMARKS
1	4	CVAP HOLDING CABINET	
2	1	WORKTABLE - 24"x30"	
2.1	1	HEAT LAMP	
3	1	REFRIGERATED PREP TABLE	
4	1	WORKTOP REFRIGERATOR	
4.1	1	HEAT LAMP	
5	1	HOT FOOD WELL	
6	1	REFRIGERATED PREP TABLE	
7	1	REFRIGERATED PREP TABLE	
8	1	WORKTOP FREEZER	
9	1	SPARE NUMBER	
10	1	COUNTERTOP HEATED WELL	
11	1	SPARE NUMBER	
12	2	POS MONITOR - BY OTHERS	BY OTHERS
13	1	CHARBROILER, SOLID FUEL - BY OWNER	BY OWNER
13.1	1	CHARBROILER, SOLID FUEL - BY OWNER	BY OWNER
14	1	REFRIGERATED BASE	
15	1	COUNTERTOP GRIDDLE, GAS	
16	1	SPARE NUMBER	
17	1	COUNTERTOP 6-BURNER RANGE	
17.1	1	REFRIGERATED BASE	
17.2	1	WALL SHELF - 16"x36"	HEIGHT AFF @ 74"
18	1	SPARE NUMBER	
19	1	SOLID SURFACE COUNTER - BY OTHERS	BY OTHERS 3
20	1	SPARE NUMBER	
21	1	GAS FRYER	
22	1	SPARE NUMBER	
23	1	GAS SALAMANDER BROILER	
24	1	FILLER TABLE - 12"x30"	
24.1	1	FILLER TABLE - 18"x30"	
24.2	1	FILLER TABLE - 24"x30"	
25	1	SPARE NUMBER	
26	1	HOOD - BY OTHERS	BY OTHERS
26.1	1	EXHAUST HOOD CONTROL PANEL - BY OTHERS	BY OTHERS
26.2	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
26.3	1	MAKE UP AIR UNIT - BY OTHERS	BY OTHERS
27-28	1	SPARE NUMBER	
29	1	HOOD - BY OTHERS	BY OTHERS
29.1	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
30	1	HOOD - BY OTHERS	BY OTHERS
30.1	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
31	1	STAINLESS STEEL PANELING	
32	1	GAS TILT KETTLE	
33	1	SPARE NUMBER	
34	1	FLOOR TROUGH - BY OTHERS	
35	1	COUNTERTOP 6-BURNER RANGE	
35.1	1	REFRIGERATED BASE	
36-37	1	SPARE NUMBER	
38	1	GAS CONVECTION OVEN	
39	1	COMBI-OVEN	
39.1	1	COMBI STAND, MOBILE PAN SLIDES & SHELF	
39.2	1	WATER FILTER	
40-41	1	SPARE NUMBER	
42	1	HOOD	BY OTHERS
42.1	1	EXHAUST HOOD CONTROL PANEL - BY OTHERS	BY OTHERS
42.2	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
42.3	1	MAKE UP AIR UNIT - BY OTHERS	BY OTHERS
44	1	STAINLESS STEEL PANELING	
44.1	6	STAINLESS STEEL PANELING	
45	1	REACH-IN FREEZER	
46	3 6	HAND SINK W/FAUCET	
47-50	1	SPARE NUMBER	
51	6	TRASH RECEPTACLE - SMALLWARES	SMALLWARES
52	1	SMOKER - BY OTHERS	BY OTHERS
52.1	1	EXHAUST HOOD - BY OTHERS	BY OTHERS
52.2	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
53	2	WORKTABLE - 24"x72"	
54	2	WORKTABLE - 30"x72"	
55	1	WORKTABLE - 30"x72"	
56	1	MIXER	
57	1	WALL SHELF - 12"x24"	HEIGHT AFF @ 60"
58-59	1	SPARE NUMBER	
60	1	WALL SHELF - 14"x112"	HEIGHT AFF @ 66"
61	1	SPARE NUMBER	
62	1	WALL SHELF - 14"x112"	HEIGHT AFF @ 78"
63	1	FOOD PROCESSOR	
64	1	2-COMPARTMENT SINK	
64.1	1	SPLASH MOUNT FAUCET	
64.2	2	TWIST DRAIN	
65	2	TRASH CONTAINER - SMALLWARES	SMALLWARES
66-67	1	SPARE NUMBER	
68	1	BLAST CHILLER	
69	1	AIR CURTAIN	
70	1	AIR CURTAIN	
71	1	3-DOOR REACH-IN FREEZER 3	
72	7	PAN RACK	
73	1	WORK TABLE W/ PREP SINK - 30"x60"	
74	1	WALL MOUNT FAUCET	
75	1	TWIST DRAIN	
76	1	SAUSAGE STUFFER	
77	1	SPARE NUMBER	
78	1	MEAT GRINDER	
79	1	FLOOR TROUGH - BY OTHERS	
80	1	WORKTABLE - 30"x72"	
80.1	1	WORKTABLE - 30"x72"	
80.2	2	WORKTABLE - 18"x26"	
81	1	HOSE REEL	

FOODSERVICE EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	REMARKS
82	2	WORKTABLE - 30"x72"	
82.1	1	WORKTABLE - 30"x60"	
83	2	WALL SHELF - 12"x72"	HEIGHT AFF @ 60"
83.1	1	WALL SHELF - 12"x60"	HEIGHT AFF @ 60"
84	3	SMOKER - BY OTHERS	BY OTHERS
84.1	1	EXHAUST HOOD - BY OTHERS	BY OTHERS
84.2	1	EXHAUST HOOD - BY OTHERS	BY OTHERS
84.3	1	EXHAUST HOOD - BY OTHERS	BY OTHERS
84.4	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
84.5	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
84.6	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
85	1	MEAT COOLER	
86	1	MEAT COOLER EVAPORATOR COIL	
87	1	MEAT COOLER CONDENSING UNIT	
88	3	DUNNAGE RACK	
89	1	BUTCHER EVAPORATOR COIL	
90	1	BUTCHER CONDENSING UNIT	
91	1	WIRE SHELVING UNIT, COOLER STORAGE	
92-93	1	SPARE NUMBER	
94	1	PRODUCE COOLER	
95	1	PRODUCE COOLER EVAPORTATOR COIL	
96	1	PRODUCE COOLER CONDENSING UNIT	
97	7	WIRE SHELVING UNIT, COOLER STORAGE	
98-101	1	SPARE NUMBER	
102	1	DUNNAGE RACK	
103	1	READY TO EAT COOLER	
104	1	READY TO EAT EVAPORATOR COIL	
105	1	READY TO EAT COOLER CONDENSING UNIT	
106	5	WIRE SHELVING UNIT, COOLER STORAGE	
107-110	1	SPARE NUMBER	
111	1	DUNNAGE RACK	
112	1	ICE MACHINE - LEASED	LEASED
112.1	1	WATER FILTER - LEASED	LEASED
112.2	1	ICE MACHINE CONDENSING UNIT - LEASED	LEASED
113	1	ICE BIN - LEASED	LEASED
114	1	FLOOR TROUGH - BY OTHERS	BY OTHERS 3
115	1	MOP SINK	
116	1	WALL MOUNT FAUCET	
117	3	FLOOR TROUGH - BY OTHERS	BY OTHERS 3
118	1	FLOOR TROUGH - BY OTHERS	BY OTHERS 3
119	1	MOP BUCKET - SMALLWARES	SMALLWARES
120	1	SPARE NUMBER	
121	1	BAG-N-BOX SODA SYSTEM - BY VENDOR	BY VENDOR
121.1	1	CARBONATOR - BY VENDOR	BY VENDOR
122	1	CO2 TANKS - BY VENDOR	BY VENDOR
123-125	1	SPARE NUMBER	
126	1	WIRE SHELVING UNIT, DRY STORAGE	
127	9	WIRE SHELVING UNIT, DRY STORAGE	
128	3	WIRE SHELVING UNIT, DRY STORAGE	
129-130	1	SPARE NUMBER	
131	1	CLEAN DISH TABLE WITH 3-COMPARTMENT SINK	
132	1	PRE-RINSE FAUCET	
133	3	TWIST DRAIN	
134	1	WALL SHELF - 12"x48"	HEIGHT AFF @ 60"
135	1	DISHTABLE SORTING SHELF	
136	1	DISH MACHINE - BY OTHERS	BY OTHERS
136.1	1	E-TEMP HEATER - BY OTHERS	BY OTHERS (INLCUDED WITH DISHWASHER #136)
137	1	HOOD - BY OTHERS	BY OTHERS
137.1	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS	BY OTHERS
138	1	SOILED DISHTABLE	
139-140	1	SPARE NUMBER	
141	1	DISHTABLE SORTING SHELF	
142	1	PRE-RINSE FAUCET	
143	1	TWIST DRAIN	
144	1	CHEMICAL DISPENSER - BY OTHERS	BY OTHERS
145	1	MOBILE SOAK SINK	
146	3	WIRE SHELVING UNIT, DRY STORAGE	
147-150	1	SPARE NUMBER	
151	10	HEAT LAMP	
152	3	DISH CABINET	
153	1	SPARE NUMBER	
154	2	POS MONITOR - BY OTHERS	BY OTHERS
155	1	WORKTOP REFRIGERATOR	
156	1	SPARE NUMBER	
157	2	WORKTABLE - 24"x120"	
158-200	1	SPARE NUMBER	
201	1	BEVERAGE COUNTER	
202	1	SPARE NUMBER	
203	1	TRASH RECEPTACLE - SMALLWARES	SMALLWARES
204	1	SPARE NUMBER	
205	1	ICE CHEST AND SODA TOWER - BY VENDOR	BY VENDOR
205.1	1	ICE CHEST AND SODA TOWER - BY VENDOR	BY VENDOR
205.2	1	WATER FILTER - BY VENDOR	BY VENDOR
205.3	1	WATER FILTER - BY VENDOR	BY VENDOR
206	1	COFFEE/TEA BREWER - BY VENDOR	BY VENDOR
206.1	1	WATER FILTER - BY VENDOR	BY VENDOR
207	1	TEA BREWER - BY VENDOR	BY VENDOR
207.1	1	WATER FILTER - BY VENDOR	BY VENDOR
208	2	DOLLY RACK	
209-214	1	SPARE NUMBER	
215	1	WALK-IN KEG COOLER	
216	1	WALK-IN KEG COOLER EVAPORATOR COIL	
217	1	WALK-IN KEG COOLER CONDENSING UNIT	
218	4	KEG STORAGE RACKS	
219	3	WIRE SHELVING UNIT, DRY STORAGE	
220	1	SPARE NUMBER	
221	3	WIRE SHELVING UNIT, COOLER STORAGE	
222	1	DRAFT BEER SYSTEM	

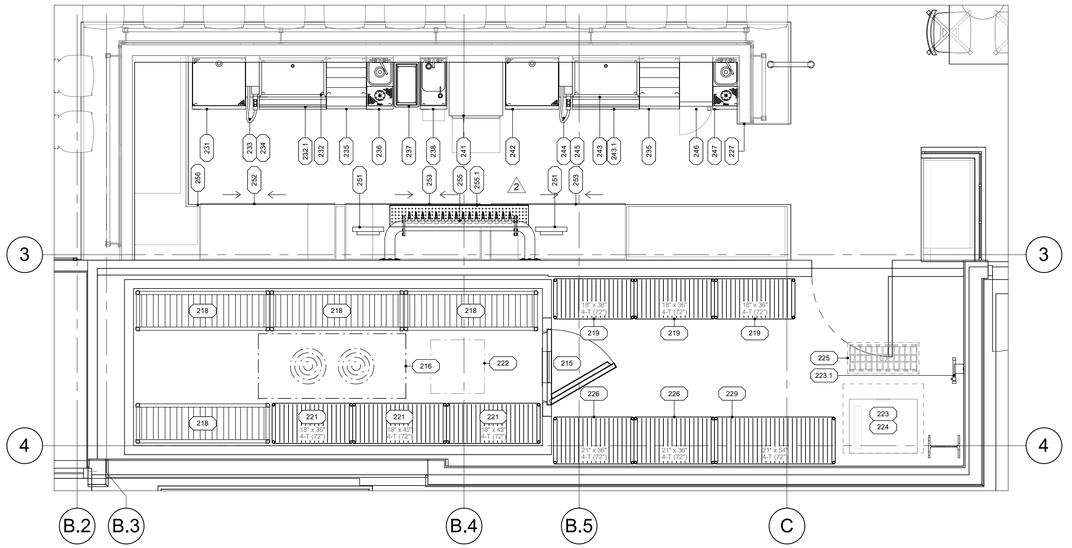
FOODSERVICE EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	REMARKS
223	1	ICE MACHINE - LEASED	LEASED
223.1	1	WATER FILTER, ICE MACHINE - LEASED	LEASED
223.2	1	ICE MACHINE CONDENSING UNIT - LEASED	LEASED
224	1	ICE BIN - LEASED	LEASED
225	1	FLOOR TROUGH - BY OTHERS	BY OTHERS 3
226	2	WIRE SHELVING UNIT, DRY STORAGE	
227	1	BAR TOP AND FRONT FACADE - BY OTHERS	BY OTHERS
228	1	SPARE NUMBER	
229	1	WIRE SHELVING UNIT, DRY STORAGE	
230	1	SPARE NUMBER	
231	1	UNDERBAR DRAINBOARD W/ GLASS RACKS	
232	1	UNDERBAR ICE BIN	
232.1	1	UNDERBAR SPEED RAIL	
233	1	UNDERBAR SODA GUN FILLER	
234	1	SODA GUN	
235	2	UNDERBAR LIQUIOR DISPLAY	
235.1	1	UNDERBAR LIQUIOR DISPLAY	
236	1	UNDERBAR DUMP SINK	
237	1	TRASH RECEPTACLE - SMALLWARES	SMALLWARES
238	1	UNDERBAR HAND SINK	
239-240	1	SPARE NUMBER	
241	2	UNDERBAR DISHMACHINE - LEASED	LEASED
242	1	UNDERBAR DRAINBOARD W/ GLASS RACKS	
243	1	UNDERBAR ICE BIN	
243.1	1	UNDERBAR SPEED RAIL	
244	1	UNDERBAR SODA GUN FILLER	
245	1	SODA GUN - BY OTHERS	BY OTHERS
246	1	UNDERBAR ICE MACHINE - LEASED	LEASED
247	1	UNDERBAR DUMP SINK	
248-250	1	SPARE NUMBER	
251	2	POS MONITOR - BY OTHERS	BY OTHERS
252	1	2-DOOR BACK BAR REFRIGERATOR	
253	2	2-DOOR BACK BAR REFRIGERATOR	
254	1	SPARE NUMBER	
255	1	WALL MOUNT BEER PIPE TOWER - 16 TAPS	
255.1	1	DRINK RAIL 2	
256	1	BACK BAR TOP - MILLWORK - BY OTHERS	BY OTHERS
257-260	1	SPARE NUMBER	
261	1	UNDERBAR DRAINBOARD W/ GLASS RACKS	
261.1	1	UNDERBAR DRAINBOARD W/ GLASS RACKS	
262	2	UNDERBAR ICE BIN	
262.1	2	UNDERBAR SPEED RAIL	
263	2	UNDERBAR SODA GUN FILLER	
264	2	SODA GUN - BY OTHERS	BY OTHERS
265	1	SPARE NUMBER	
266	1	UNDERBAR DUMP SINK	
267	1	TRASH RECEPTACLE - SMALLWARES	SMALLWARES
268	1	UNDERBAR HAND SINK	
269-281	1	SPARE NUMBER	
282	1	2-DOOR BACK BAR REFRIGERATOR	
283	1	2-DOOR BACK BAR REFRIGERATOR	
284	1	SPARE NUMBER	
285	1	BEER PIPE TOWER - 16 TAPS	
285.1	1	DRINK RAIL 2	
286	1	POS MONITOR - BY OTHERS	BY OTHERS
287	1	EXTERIOR BACK BAR TOP - BY OTHERS	BY OTHERS
288	1	BEVERAGE COUNTER - BY OTHERS	BY OTHERS
289-300	1	SPARE NUMBER	



FOODSERVICE EQUIPMENT PLAN

3/8" = 1'-0"



FOODSERVICE EQUIPMENT PLAN

3/8" = 1'-0"

TriMark
Foodservice Equipment, Supplies and Design

North : Hockenbergs
14603 W. 112th Street
Lenexa, KS 66215

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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.16.2025	2	BEER TOWER REVISION
10.31.2025	3	OWNER COMMENTS

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:

DATE:	PROJECT #:
08.29.2025	2025078
DRAWN BY:	APPROVED BY:
JG	ABR

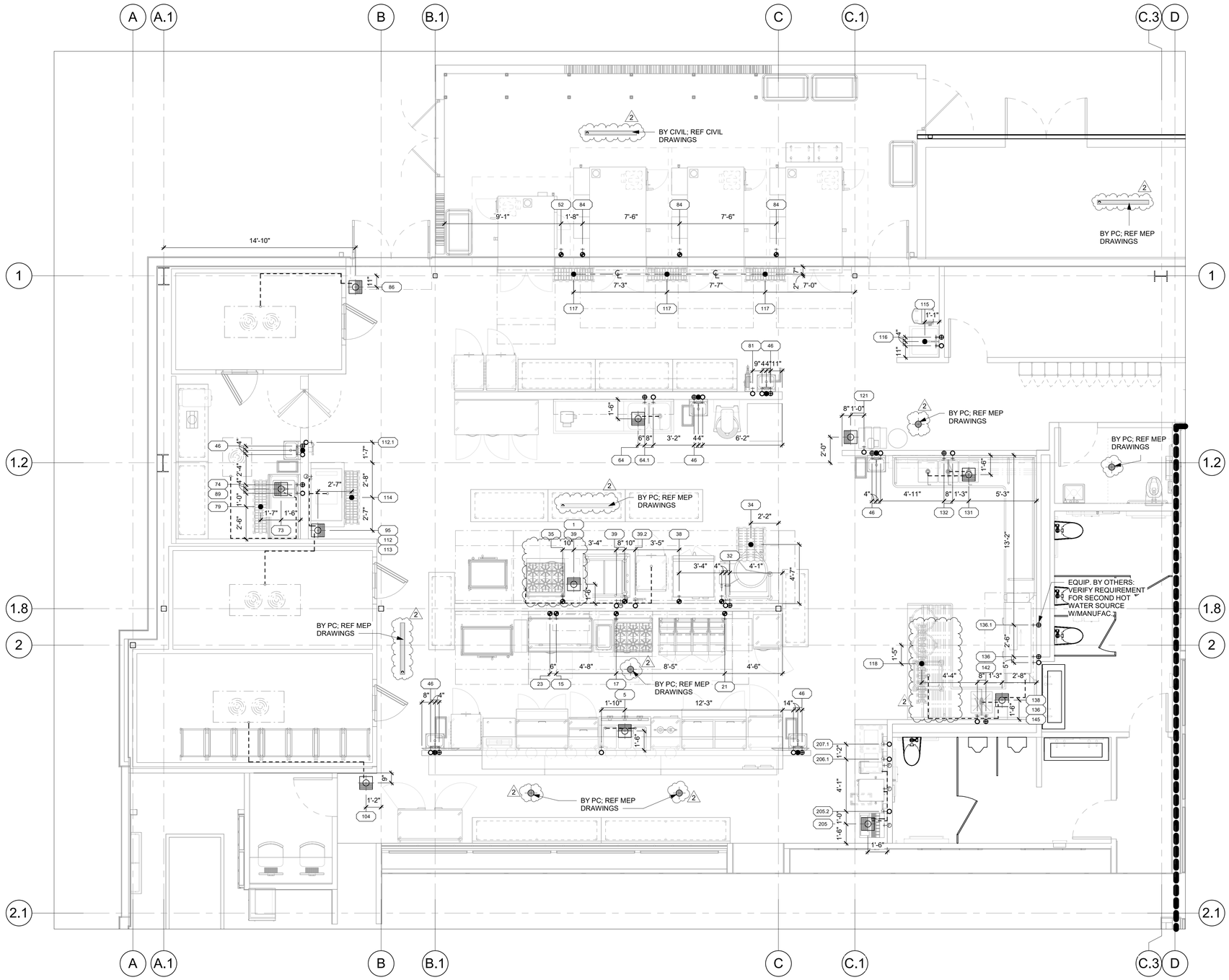
SHEET TITLE:

FOODSERVICE EQUIPMENT PLANS & SCHEDULES

SHEET NUMBER:

QF102

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BY CITY OF LEE'S SUMMIT
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:58



FOODSERVICE PLUMBING ROUGH-IN PLAN

1/4" = 1'-0"

PLUMBING NOTES (DIVISION 22)

NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR (DIVISION 22) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE PLUMBING ROUGH-IN PLAN(S). THE PLUMBING CONTRACTOR (DIVISION 22) SHALL VERIFY AND COORDINATE THE EXACT PLUMBING REQUIREMENTS FOR ALL N/C EQUIPMENT PRIOR TO FINAL ROUGH-IN.

A. INSTALL KEC (SECTION 114000) FURNISHED FLOOR TROUGH(S).
B. INSTALL KEC (SECTION 114000) FURNISHED MOP SINK(S).
C. INSTALL KEC (SECTION 114000) FURNISHED FIRE SUPPRESSION SYSTEM GAS SHUT OFF VALVE. MUST BE ACCESSIBLE AND NOT CONCEALED IN WALL OR CEILING.
D. INSTALL KEC (SECTION 114000) FURNISHED DRAIN LINE TEMPERING KIT PER MANUFACTURER'S RECOMMENDATIONS.
E. MANIFOLD DRAINS TO SINGLE CONNECTION.
F. FURNISH AND INSTALL BALL VALVE IN DRAIN LINE. VALVE TO BE IN EASILY ACCESSIBLE LOCATION.
G. INTERPLUMB BETWEEN FILTER AND EQUIPMENT. PIPING FROM WATER FILTER OUTLET TO POINTS OF USE SHALL BE CONCEALED WITHIN WALLS AND CEILINGS. EXTEND DRAIN(S) TO FLOOR SINK/FLOOR DRAIN, IF REQUIRED.
H. CONNECT MIN. 110°F HOT WATER SUPPLY TO BUILT-IN OR EXTERNAL (70° RISE) BOOSTER HEATER. WHEN EXTERNAL, INSTALL TEMPERATURE/PRESSURE GAUGE(S) AS REQ'D AND EXTEND TO DISHWASHER INLET.
I. CONNECT DRAIN(S) WITH REFRIGERATION GRADE HARD COPPER USING 1" STANDOFFS. "P" TRAP DRAIN OUTSIDE WALK-IN COMPARTMENT(S). PROVIDE AND INSTALL SLEEVES THRU WALK-IN AND BUILDING WALLS FOR DRAIN LINE(S). FOAM & CAULK AROUND SLEEVES AND DRAIN LINES. WRAP WITH DRAIN LINE HEATER AND INSULATION WHERE SUBJECT TO FREEZING TEMPERATURES.
J. REFRIGERATION CONTRACTOR SHALL PROVIDE WALK-IN EVAPORATOR CONDENSATE DRAIN(S) PER REFRIGERATION GENERAL REQS.
K. PROVIDE GRAY WATER AND SLURRY PIPING TO AND FROM (SECTION 114000) FURNISHED PULPER, TROUGH, AND WATER EXTRACTOR. INSTALL KEC (SECTION 114000) FURNISHED TROUGH INLET NOZZLES AND PROVIDE SHUT OFF VALVE AT EACH NOZZLE.
L. PROVIDE "TEE" IN HOT WATER LINE AND CAP FOR FUTURE INSTALLATION OF CHEMICAL DISPENSING SYSTEM BY OTHERS.
M. PROVIDE CHROME PLATED PIPE AND FITTINGS WHERE EXPOSED.
N. PROVIDE AND INSTALL 3" MIN. DRAIN LINE TO 12"X12"X10" DEEP FLOOR SINK.
O. VERIFY EXACT LOCATION AND QUANTITY OF AREA FLOOR DRAIN(S) WITH THE PLUMBING ENGINEER.
P. STUB UP WASTE WITHIN WALL. ROUTE WASTE THRU WALL TO ROUGH-IN LOCATION(S) INDICATED FOR DIRECT CONNECTION TO EQUIPMENT.

PLUMBING LEGEND

- HOT WATER
- HOT WATER - SOFTENED
- COLD WATER
- COLD WATER - SOFTENED
- FILTERED WATER
- DIRECT WASTE
- FLOOR SINK - THREE-QUARTER GRATE
- FLOOR SINK - HALF GRATE
- FLOOR SINK - NO GRATE
- FLOOR DRAIN
- FUNNEL FLOOR DRAIN
- HUB FLOOR DRAIN
- AREA FLOOR DRAIN - SLOPED PER CODE
- GAS DROP FROM MANIFOLD
- FIRE SUPPRESSION GAS SHUT-OFF VALVE
- CHILLED WATER
- CHILLED WATER RETURN
- STEAM SUPPLY
- CONDENSATE RETURN

FOODSERVICE DRAWINGS INDICATE PLUMBING ROUGH-IN/CONNECTION POINTS ONLY FOR EQUIPMENT SPECIFIED UNDER THE KITCHEN EQUIPMENT (SECTION 114000) CONTRACT. ANY ADDITIONAL PLUMBING REQUIREMENTS ARE NOT INDICATED ON FOODSERVICE DRAWINGS. THE PLUMBING CONTRACTOR (DIVISION 22) SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVES, FLOW CONTROLS, BACK FLOW PREVENTION, RPZ (REDUCED PRESSURE ZONE) VALVES, WATER HAMMER ARRESTOR, GATE VALVES, FOR WATER CONNECTIONS AS REQUIRED PER LOCAL CODES.

TriMark
Foodservice Equipment, Supplies and Design

North : Hockenbergs
14603 W. 112th Street
Lenexa, KS 66215

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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.31.2025	2	OWNER COMMENTS

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:

DATE:	PROJECT #:
08.29.2025	2025078
DRAWN BY: JG	APPROVED BY: ABR

SHEET TITLE:
FOODSERVICE PLUMBING ROUGH-IN PLAN

SHEET NUMBER:
QF201

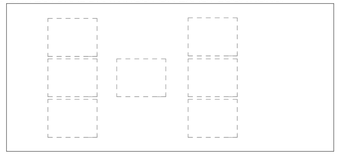
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE NOTICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:58

FOODSERVICE PLUMBING SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	HW SIZE	HW AFF	CW SIZE	CW AFF	DW SIZE	DW AFF	GAS SIZE	GAS AFF	GAS MBTU	PLUMBING REMARKS
5	1	HOT FOOD WELL			1/2"	14"						PC TO CONTINUE WASTE LINE TO FLOOR SINK
15	1	COUNTERTOP GRIDDLE, GAS							3/4"	18"	168.0	
17	1	COUNTERTOP 6-BURNER RANGE							3/4"	18"	180.0	
21	1	GAS FRYER							1"	18"	400.0	
23	1	GAS SALAMANDER BROILER							1/2"	80"	40.0	PC TO HARD PIPE GAS CONNECTION TO SALAMANDER MOUNTED ON WALL
26.3	1	MAKE UP AIR UNIT - BY OTHERS										BY OTHERS, VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS
32	1	GAS TILT KETTLE	1/2"	14"	1/2"	14"			3/4"	18"	190.0	PC TO CONTINUE WASTE LINE TO FLOOR SINK
34	1	FLOOR TROUGH - BY OTHERS					4"					BY OTHERS: PC TO STUB UP DIRECT WASTE; VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER 3
35	1	COUNTERTOP 6-BURNER RANGE							3/4"	18"	180.0	
38	1	GAS CONVECTION OVEN							1"	18"	120.0	
39	1	COMBI-OVEN			1/2"	36"			3/4"	18"	133.0	PC TO CONTINUE WASTE LINE TO FLOOR SINK
39.2	1	WATER FILTER			3/4"	60"						PC TO CONTINUE CW THROUGH FILTER ONTO COMBI-OVEN
42.3	1	MAKE UP AIR UNIT - BY OTHERS										BY OTHERS, VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS
46	6	HAND SINK W/FAUCET	1/2"	14"	1/2"	14"	2"	16"				
52	1	SMOKER - BY OTHERS							1/2"	30 5/8"	75.0	BY OTHERS,PC TO HARD PIPE UNIT; VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS
64	1	2-COMPARTMENT SINK										PC TO CONTINUE WASTE LINE TO FLOOR SINK
64.1	1	SPLASH MOUNT FAUCET	1/2"	14"	1/2"	14"						
73	1	WORK TABLE W/ PREP SINK - 30"x60"										PC TO CONTINUE WASTE LINE TO FLOOR SINK
74	1	WALL MOUNT FAUCET	1/2"	14"	1/2"	14"						
79	1	FLOOR TROUGH - BY OTHERS					4"					BY OTHERS: PC TO STUB UP DIRECT WASTE; VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER 3
81	1	HOSE REEL			1/2"	80"						
84	3	SMOKER - BY OTHERS							1/2"	29 1/2"	150.0	BY OTHERS,PC TO HARD PIPE UNIT; VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS
86	1	MEAT COOLER EVAPORATOR COIL										PC TO CONTINUE WASTE LINE TO FLOOR SINK
89	1	BUTCHER EVAPORATOR COIL										PC TO CONTINUE WASTE LINE TO FLOOR SINK
95	1	PRODUCE COOLER EVAPORTATOR COIL										PC TO CONTINUE WASTE LINE TO FLOOR SINK
104	1	READY TO EAT EVAPORATOR COIL										PC TO CONTINUE WASTE LINE TO FLOOR SINK
112	1	ICE MACHINE - LEASED										LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER; PC TO CONTINUE WASTE LINE TO FLOOR SINK
112.1	1	WATER FILTER - LEASED			1/2"	60"						PC TO CONTINUE CW THROUGH FILTER ONTO ICE MACHINE
113	1	ICE BIN - LEASED										LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER; PC TO CONTINUE WASTE LINE TO FLOOR SINK
114	1	FLOOR TROUGH - BY OTHERS					4"					BY OTHERS: PC TO STUB UP DIRECT WASTE; VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER 3
115	1	MOP SINK					2"					PC TO STUB UP DIRECT WASTE
116	1	WALL MOUNT FAUCET	1/2"	36"	1/2"	36"						
117	3	FLOOR TROUGH - BY OTHERS					4"					BY OTHERS: PC TO STUB UP DIRECT WASTE; VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER 3
118	1	FLOOR TROUGH - BY OTHERS					4"					BY OTHERS: PC TO STUB UP DIRECT WASTE; VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER 3
121	1	BAG-N-BOX SODA SYSTEM - BY VENDOR			1/2"	60"						BY VENDOR - VERIFY ALL ROUGH-IN REQUIREMENTS
131	1	CLEAN DISH TABLE WITH 3-COMPARTMENT SINK										PC TO CONTINUE WASTE LINE TO FLOOR SINK
132	1	PRE-RINSE FAUCET	1/2"	14"	1/2"	14"						
136	1	DISH MACHINE - BY OTHERS	1/2"	60"	1/2"	60"						BY OTHERS, VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS. PC TO TEE OFF CW AND INTERCONNECT CW TO DRAIN TEMPERING KIT TO DISH MACHINE AS REQUIRED; PC TO CONTINUE WASTE LINE TO FLOOR SINK
136.1	1	E-TEMP HEATER - BY OTHERS	1/2"	48"								
138	1	SOILED DISHTABLE										PC TO CONTINUE WASTE LINE TO FLOOR SINK
142	1	PRE-RINSE FAUCET	1/2"	14"	1/2"	14"						
145	1	MOBILE SOAK SINK										PC TO CONTINUE WASTE LINE TO FLOOR SINK
205	1	ICE CHEST AND SODA TOWER - BY VENDOR										BY OTHERS, VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS. PC TO CONTINUE WASTE LINE TO FLOOR SINK
205.1	1	ICE CHEST AND SODA TOWER - BY VENDOR										BY OTHERS, VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS. PC TO CONTINUE WASTE LINE TO FLOOR SINK
205.2	1	WATER FILTER - BY VENDOR			3/4"	72"						PC TO CONTINUE CW THROUGH FILTER ONTO ICE CHEST AND SODA TOWER
205.3	1	WATER FILTER - BY VENDOR			3/4"	30"						PC TO CONTINUE CW THROUGH FILTER ONTO ICE CHEST AND SODA TOWER
206	1	COFFEE/TEA BREWER - BY VENDOR										BY OTHERS, VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS. PC TO CONTINUE WASTE LINE TO FLOOR SINK
206.1	1	WATER FILTER - BY VENDOR			3/4"	60"						PC TO CONTINUE CW THROUGH FILTER ONTO COFFEE/TEA BREWER
207	1	TEA BREWER - BY VENDOR										BY OTHERS, VERIFY ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S SHOP DRAWINGS. PC TO CONTINUE WASTE LINE TO FLOOR SINK
207.1	1	WATER FILTER - BY VENDOR			3/4"	60"						PC TO CONTINUE CW THROUGH FILTER ONTO TEA BREWER
216	1	WALK-IN KEG COOLER EVAPORATOR COIL										PC TO CONTINUE WASTE LINE TO FLOOR SINK
223	1	ICE MACHINE - LEASED										LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER; PC TO CONTINUE WASTE LINE TO FLOORSINK
223.1	1	WATER FILTER, ICE MACHINE - LEASED			1/2"	60"						PC TO CONTINUE CW THROUGH FILTER ONTO ICE MACHINE
224	1	ICE BIN - LEASED										LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER; PC TO CONTINUE WASTE LINE TO FLOOR SINK
225	1	FLOOR TROUGH - BY OTHERS					4"					BY OTHERS: PC TO STUB UP DIRECT WASTE; VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER 3
231	1	UNDERBAR DRAINBOARD W/ GLASS RACKS										PC TO CONTINUE WASTE LINE TO FLOOR SINK
232	1	UNDERBAR ICE BIN										PC TO CONTINUE WASTE LINE TO FLOOR SINK
236	1	UNDERBAR DUMP SINK	1/2"	12"	1/2"	12"						PC TO CONTINUE WASTE LINE TO FLOOR SINK
238	1	UNDERBAR HAND SINK	1/2"	12"	1/2"	12"	2"	14"				
241	2	UNDERBAR DISHMACHINE - LEASED	1/2"	12"								LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER; PC TO CONTINUE WASTE LINE TO FLOOR TROUGH
242	1	UNDERBAR DRAINBOARD W/ GLASS RACKS										PC TO CONTINUE WASTE LINE TO FLOOR SINK
243	1	UNDERBAR ICE BIN										PC TO CONTINUE WASTE LINE TO FLOOR SINK
246	1	UNDERBAR ICE MACHINE - LEASED			1/4"	12"						LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER; PC TO CONTINUE WASTE LINE TO FLOOR SINK
247	1	UNDERBAR DUMP SINK	1/2"	12"	1/2"	12"						PC TO CONTINUE WASTE LINE TO FLOOR SINK
255.1	1	DRINK RAIL										PC TO EXTEND INDIRECT WASTE LINE TO FLOOR SINK 2
261	1	UNDERBAR DRAINBOARD W/ GLASS RACKS										PC TO CONTINUE WASTE LINE TO FLOOR SINK
261.1	1	UNDERBAR DRAINBOARD W/ GLASS RACKS										PC TO CONTINUE WASTE LINE TO FLOOR SINK
262	2	UNDERBAR ICE BIN										PC TO CONTINUE WASTE LINE TO FLOOR SINK
266	1	UNDERBAR DUMP SINK	1/2"	12"	1/2"	12"						PC TO CONTINUE WASTE LINE TO FLOOR SINK
268	1	UNDERBAR HAND SINK	1/2"	12"	1/2"	12"	2"	14"				
285.1	1	DRINK RAIL										PC TO EXTEND INDIRECT WASTE LINE TO FLOOR SINK 2

REFRIGERATION EQUIPMENT

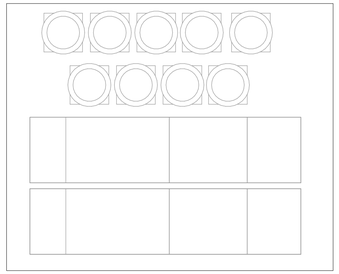
CONDENSING UNITS LOCATED ON CONCRETE SLAB/ BUILDING ROOF. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.



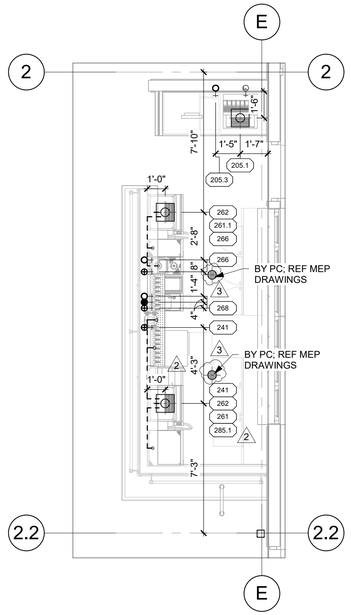
REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL REFRIGERATION EQUIPMENT.

EXHAUST/SUPPLY FAN EQUIPMENT

FANS LOCATED ON BUILDING ROOF. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

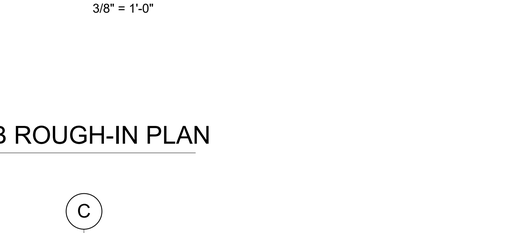


REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL EXHAUST/SUPPLY FANS.



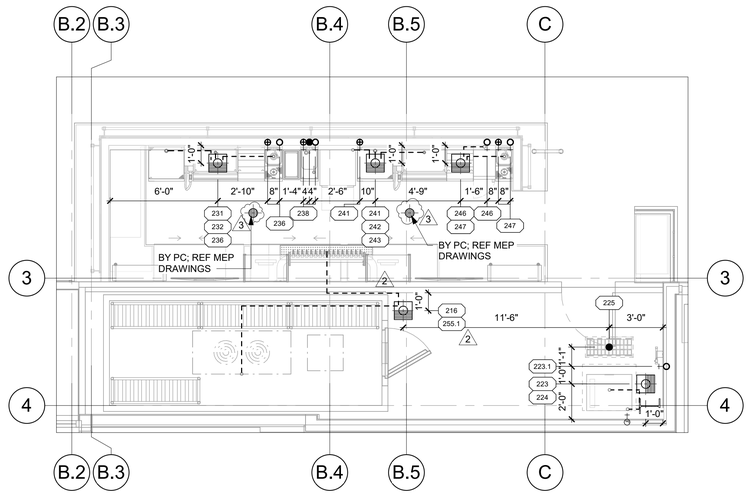
FOODSERVICE PLUMBING IN-SLAB ROUGH-IN PLAN

1/4" = 1'-0"



WALK-IN DRAIN LINE DETAIL

3/8" = 1'-0"



FOODSERVICE PLUMBING ROUGH-IN PLAN

1/4" = 1'-0"

FOODSERVICE DRAWINGS INDICATE PLUMBING ROUGH-IN/CONNECTION POINTS ONLY FOR EQUIPMENT SPECIFIED UNDER THE KITCHEN EQUIPMENT (SECTION 114000) CONTRACT. ANY ADDITIONAL PLUMBING REQUIREMENTS ARE NOT INDICATED ON FOODSERVICE DRAWINGS. THE PLUMBING CONTRACTOR (DIVISION 22) SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVES, FLOW CONTROLS, BACK FLOW PREVENTION, RPZ (REDUCED PRESSURE ZONE) VALVES, WATER HAMMER ARRESTOR, GATE VALVES, FOR WATER CONNECTIONS AS REQUIRED PER LOCAL CODES.

TriMark
Foodservice Equipment, Supplies and Design

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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.16.2025	2	BEER TOWER REVISION
10.31.2025	3	OWNER COMMENTS

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:	
DATE: 08.29.2025	PROJECT #: 2025078
DRAWN BY: JG	APPROVED BY: ABR

SHEET TITLE:
FOODSERVICE PLUMBING ROUGH-IN PLANS & SCHEDULE

SHEET NUMBER:
QF202

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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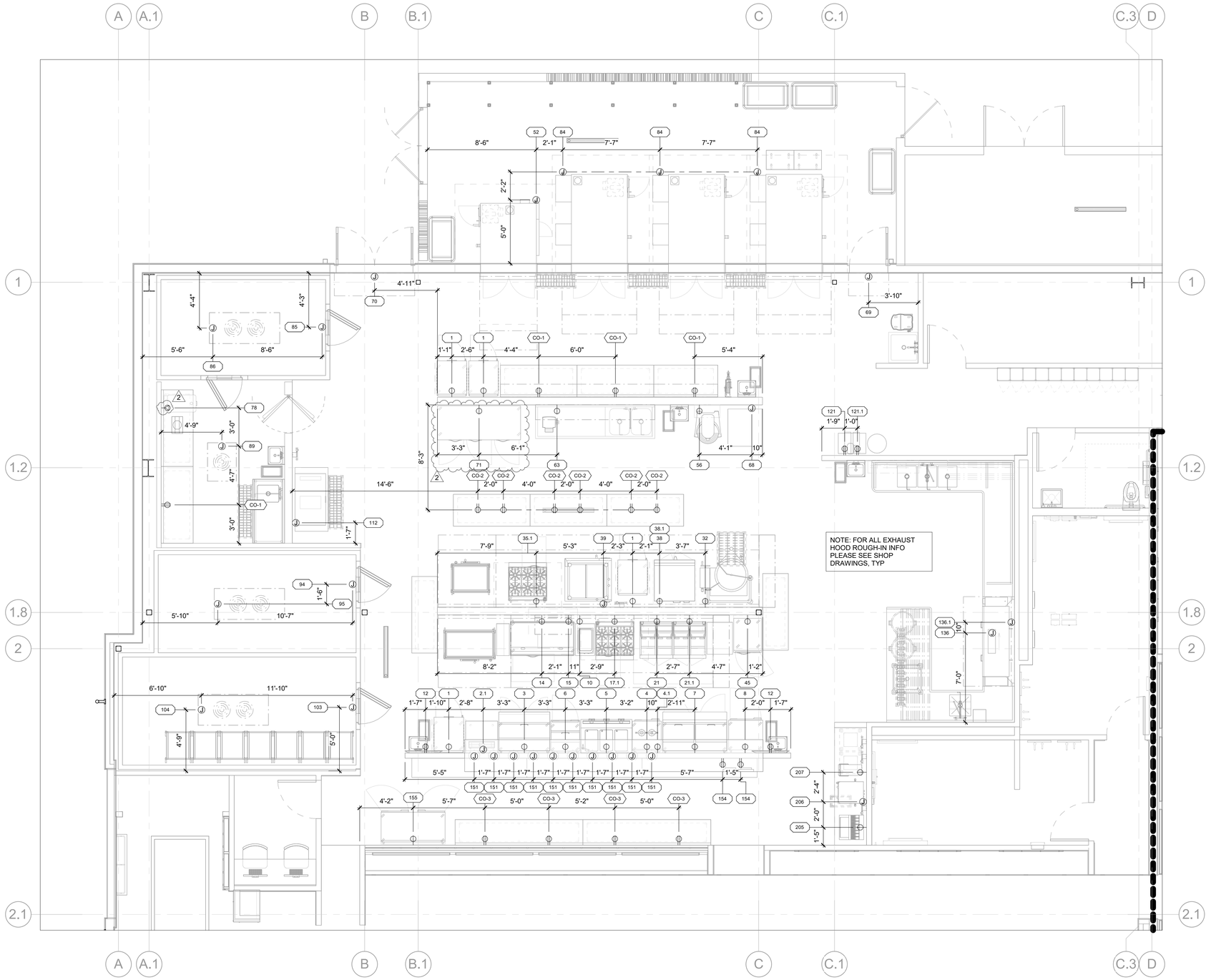
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:58



FOODSERVICE ELECTRICAL ROUGH-IN PLAN

1/4" = 1'-0"

FOODSERVICE DRAWINGS INDICATE ELECTRICAL ROUGH-IN/CONNECTION POINTS ONLY FOR EQUIPMENT SPECIFIED UNDER THE KITCHEN EQUIPMENT (SECTION 114000) CONTRACT. ANY ADDITIONAL ELECTRICAL REQUIREMENTS ARE NOT INDICATED ON FOODSERVICE DRAWINGS.

ELECTRICAL LEGEND

- DUPLEX RECEPTACLE
- SINGLE RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE
- QUAD RECEPTACLE
- FLUSH FLOOR MOUNT RECEPTACLE
- JUNCTION BOX - FLOOR/CLG MOUNTED
- JUNCTION BOX - WALL MOUNTED
- JUNCTION BOX - WALL MOUNTED (HORIZONTAL)
- SWITCH
- DATA CONNECTION
- MANUAL FIRE PULL STATION
- DROP CORD MOUNTED FROM CEILING (CLG)
- CONDUIT STUB UP
- CONDUIT STUB OUT OF WALL
- DEFROST TIME CLOCK
- DISCONNECT
- LIGHT - RECTANGULAR
- LIGHT - ROUND
- MOTOR
- FIRE SUPPRESSION GAS SHUT OFF VALVE
- SENSOR (EXHAUST HOOD, TEMP, CO2, LIGHT) (SNSR)
- PLUG MOLD
- ELECTRIC PANEL (EP)

ELECTRICAL NOTES (DIVISION 26)

NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE ELECTRIC CONTRACTOR (DIVISION 26) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE ELECTRIC ROUGH-IN PLAN(S). THE ELECTRIC CONTRACTOR (DIVISION 26) SHALL VERIFY AND COORDINATE THE EXACT ELECTRICAL REQUIREMENTS FOR ALL NIC EQUIPMENT PRIOR TO FINAL ROUGH-IN.

A. FURNISH AND INSTALL CORD AND PLUG SET(S).
B. FURNISH AND INSTALL DEVICE & COVER IN KEC (SECTION 114000) FURNISHED JUNCTION BOX.
C. FURNISH AND INSTALL JUNCTION BOX(S), DEVICE(S), AND COVER(S) IN KEC (SECTION 114000) FURNISHED EQUIPMENT.
D. CONNECT THRU DISPOSER CONTROL TO SOLENOID VALVE AND MOTOR.
E. CONNECT FROM KEC (SECTION 114000) FURNISHED ICE MACHINE TO REMOTE CONDENSER AS REQ'D.
F. CONNECT THRU KEC (SECTION 114000) FURNISHED AIR CURTAIN TO DOOR ACTIVATED MICROSWITCH.
G. CONNECT THRU KEC (SECTION 114000) FURNISHED REMOTE CONTROL SWITCH(ES).
H. FURNISH AND INSTALL SWITCH. CONNECT TO LIGHTS FURNISHED BY KEC (SECTION 114000).
I. CONNECT POWER SUPPLY TO KEC (SECTION 114000) FURNISHED LOAD CENTER. COUNTER SHALL BE PREWIRED AND SHIPPED IN SECTIONS. CONNECT BETWEEN SECTIONS.
J CONNECT TO KEC (SECTION 114000) FURNISHED JUNCTION BOX AT WALK-IN DOOR ASSEMBLY. LIGHT FIXTURE AT DOOR IS PREWIRED TO FACTORY MOUNTED LIGHT SWITCH. MOUNT ADDITIONAL KEC (SECTION 114000) FURNISHED LIGHTS WHERE INDICATED AND CONNECT TO SWITCH. CONDUIT SHALL BE INSTALLED ABOVE WALK-IN AND NOT EXPOSED ON INTERIOR UNLESS REQ'D. CONDUIT PENETRATING WALK-IN SHALL BE NON-METALLIC OR PVC.
K CONNECT KEC (SECTION 114000) FURNISHED TEMPERATURE ALARM SYSTEM. COORDINATE WITH BUILDING SYSTEM(S).
L. INSTALL KEC (SECTION 114000) FURNISHED DEFROST TIMER. CONNECT THRU TIMER TO EVAPORATOR COIL.
M. CONNECT FROM KEC (SECTION 114000) FURNISHED CONDENSING UNIT, THRU DEFROST TIMER, TO EVAPORATOR COIL.
N. FURNISH AND INSTALL NEMA RECEPTACLE WITH WEATHER COVER.
O. CONNECT EXHAUST FAN THRU FAN CONTROL CONTACTS IN DISHWASHER.
P. CONNECT TABLE LIMIT SWITCH TO DRY CONTACT ON KEC (SECTION 11400) FURNISHED DISH MACHINE.
Q. CONNECT DRAIN WATER TEMPERING DEVICE PER MANUFACTURER'S RECOMMENDATIONS.
R. CONNECT TO EXHAUST HOOD LIGHT(S), CONTROL(S), AND EXHAUST FAN(S)/MAKE-UP AIR UNIT(S) AS REQ'D. INTERWIRE HOOD SECTIONS, MOTOR STARTER(S)/DRIVES, AND OVERLOAD PROTECTION AS REQ'D. INSTALL COMPONENTS AND SENSORS SHIPPED LOOSE. REFER TO SYSTEM SHOP DRAWING(S) FOR ADDITIONAL SCHEMATICS.
S. CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICRO SWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL TO SHUNT TRIP BREAKER(S) FOR SHUT DOWN OF POWER TO ALL ELECTRICAL DEVICES UNDER HOOD(S) AND 18" OUTSIDE PERIMETER OF HOOD(S). CONNECT FROM MICRO SWITCH TO DIVISION 26 FURNISHED RELAY(S) OR SWITCHES FOR SHUT DOWN/CONTROL OF HOOD LIGHTS, MAKE-UP AIR FAN, AND FIRE ALARM SYSTEM.
T. CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICRO SWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL THRU MANUAL RESET RELAY TO ELECTRIC GAS VALVE. PROVIDE CONTROL/INTERWIRING BETWEEN THE FIRE SUPPRESSION SYSTEM AND ASSOCIATED ELECTRICAL GAS SOLENOID VALVES, RESET RELAYS, AND PULL STATIONS AS REQ'D.
U. FURNISH AND INSTALL CONCEALED CONDUIT AND RECESSED OCTAGONAL JUNCTION BOX IN WALL AT 42"-48" AFF FOR REMOTE MANUAL PULL STATION(S). COORDINATE LOCATION(S) WITH FIRE SUPPRESSION SYSTEM CONTRACTOR AND AUTHORITIES HAVING JURISDICTION PRIOR TO ROUGH-IN.
V. PROVIDE 3/4" EMPTY CONDUIT AND JUNCTION BOX FOR DATA CONNECTION. VERIFY EXACT REQS AND TERMINATION POINTS PRIOR TO ROUGH-IN.
W. PROVIDE DEVICE MOUNTED HORIZONTALLY IN BUILDING WALL.

TriMark
Foodservice Equipment, Supplies and Design

North : Hockenbergs
14603 W. 112th Street
Lenexa, KS 66215

p. 913-491-4999

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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.31.2025	2	OWNER COMMENTS

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:	
DATE: 08.29.2025	PROJECT #: 2025078
DRAWN BY: JG	APPROVED BY: ABR

SHEET TITLE: FOODSERVICE ELECTRICAL ROUGH-IN PLAN

SHEET NUMBER: QF301

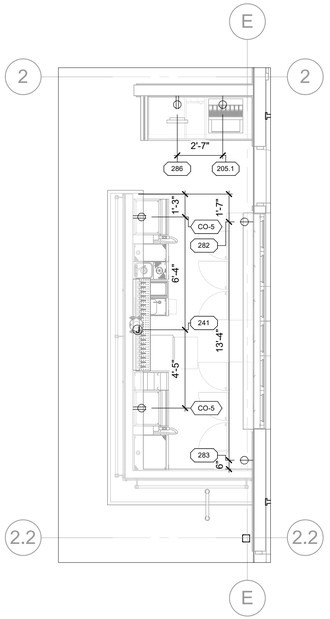
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR BIDDING OR PERMITTING
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:58

FOODSERVICE ELECTRICAL SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	VOLTS	PHASE	AMPS	TYPE	TYPE AFF	ELECTRICAL REMARKS
1	4	CVAP HOLDING CABINET	120	1	19.1	SR	24"	
2.1	1	HEAT LAMP	120	1	5.8	JB	24"	
3	1	REFRIGERATED PREP TABLE	120	1	2.0	SR	24"	
4	1	WORKTOP REFRIGERATOR	120	1	2.0	SR	24"	
4.1	1	HEAT LAMP	120	1	4.1	SR	42"	
5	1	HOT FOOD WELL	208/240	1	16.0	SR	24"	
6	1	REFRIGERATED PREP TABLE	120	1	2.0	SR	24"	
7	1	REFRIGERATED PREP TABLE	120	1	5.4	SR	24"	
8	1	WORKTOP FREEZER	120	1	4.0	SR	24"	
10	1	COUNTERTOP HEATED WELL	120	1	10.0	SR	48"	
12	2	POS MONITOR - BY OTHERS	120	1	16.0	DR	48"	BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
14	1	REFRIGERATED BASE	120	1	3.3	SR	24"	
15	1	COUNTERTOP GRIDDLE, GAS	120	1	1.0	SR	24"	
17.1	1	REFRIGERATED BASE	120	1	1.7	SR	24"	
21	1	GAS FRYER	120	1	1.0	SR	24"	CONTROLS
21.1	1	FRYER - FILTER	120	1	8.0	SR	24"	
26	1	HOOD - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
26.1	1	EXHAUST HOOD CONTROL PANEL - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
26.2	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
26.3	1	MAKE UP AIR UNIT - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
29	1	HOOD - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
29.1	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
30	1	HOOD - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
30.1	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
32	1	GAS TILT KETTLE	120	1	10.0	SR	24"	
35.1	1	REFRIGERATED BASE	120	1	1.7	SR	24"	
38	1	GAS CONVECTION OVEN	120	1	9.8	SR	24"	
38.1	1	CONVECTION OVEN (SECOND DECK)	120	1	9.8	SR	48"	
39	1	COMBI-OVEN	120	1	6.8	JB	24"	
42	1	HOOD						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
42.1	1	EXHAUST HOOD CONTROL PANEL - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
42.2	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
42.3	1	MAKE UP AIR UNIT - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
45	1	REACH-IN FREEZER	120	1	11.0	SR	48"	
52	1	SMOKER - BY OTHERS	120	1	15.0	JB		BY OTHERS; JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS
52.1	1	EXHAUST HOOD - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
52.2	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
56	1	MIXER	208	3	9.0	SR	48"	
63	1	FOOD PROCESSOR	120	1	13.5	SR	48"	
68	1	BLAST CHILLER	208	3	40.0	JB	24"	208-240
69	1	AIR CURTAIN	120	1	3.4	JB	96"	
70	1	AIR CURTAIN	120	1	3.4	JB	96"	
71	1	3-DOOR REACH-IN FREEZER	120	1	13.2	SR	48"	
78	1	MEAT GRINDER	220	1	8.9	SR	48"	
84	3	SMOKER - BY OTHERS	120	1	15.0	JB		BY OTHERS; JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS
84.1	1	EXHAUST HOOD - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
84.2	1	EXHAUST HOOD - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
84.3	1	EXHAUST HOOD - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
84.4	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
84.5	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
84.6	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
85	1	MEAT COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
86	1	MEAT COOLER EVAPORATOR COIL	120	1	1.6	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
87	1	MEAT COOLER CONDENSING UNIT	208	3	5.4	JB		JB LOCATION TBD BY ARCHITECT, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
89	1	BUTCHER EVAPORATOR COIL	120	1	0.8	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
90	1	BUTCHER CONDENSING UNIT	208	1	7.4	JB		JB LOCATION TBD BY ARCHITECT, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
94	1	PRODUCE COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
95	1	PRODUCE COOLER EVAPORTATOR COIL	120	1	1.6	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
96	1	PRODUCE COOLER CONDENSING UNIT	208	3	5.4	JB		JB LOCATION TBD BY ARCHITECT, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
103	1	READY TO EAT COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
104	1	READY TO EAT EVAPORATOR COIL	120	1	1.6	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
105	1	READY TO EAT COOLER CONDENSING UNIT	208	3	6.0	JB		JB LOCATION TBD BY ARCHITECT, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
112	1	ICE MACHINE - LEASED	208	3	20.1	JB	72"	LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER DRAWINGS
112.2	1	ICE MACHINE CONDENSING UNIT - LEASED	208	1	1.9	JB		LEASED; JB LOCATION TBD BY ARCHITECT, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER DRAWINGS
121	1	BAG-N-BOX SODA SYSTEM - BY VENDOR	120	1	16.0	DR	66"	BY VENDOR; VERIFY ALL ROUGH-IN REQUIREMENTS
121.1	1	CARBONATOR - BY VENDOR	120	1	16.0	DR	72"	BY VENDOR; VERIFY ALL ROUGH-IN REQUIREMENTS
136	1	DISH MACHINE - BY OTHERS	480	3	26.0	JB	66"	BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
136.1	1	E-TEMP HEATER - BY OTHERS	480	3	22.0	JB	66"	BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
137	1	HOOD - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
137.1	1	ROOF MOUNTED EXHAUST FAN - BY OTHERS						BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
151	10	HEAT LAMP	120	1		JB	84"	250 WATTS; EC TO VERIFY HOW MANY CAN BE CHAINED TO ONE SWTICH WITH MANUFACTURER DRAWINGS
154	2	POS MONITOR - BY OTHERS	120	1	16.0	DR	48"	BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
155	1	WORKTOP REFRIGERATOR	120	1	4.0	SR	24"	
205	1	ICE CHEST AND SODA TOWER - BY VENDOR	120	1	16.0	SR	24"	BY VENDOR; VERIFY ALL ROUGH-IN REQUIREMENTS
205.1	1	ICE CHEST AND SODA TOWER - BY VENDOR	120	1	16.0	SR	24"	BY VENDOR; VERIFY ALL ROUGH-IN REQUIREMENTS
206	1	COFFEE/TEA BREWER - BY VENDOR	120/208	1	30.0	JB	48"	BY VENDOR; VERIFY ALL ROUGH-IN REQUIREMENTS
207	1	TEA BREWER - BY VENDOR	120	1	16.0	SR	48"	BY VENDOR; VERIFY ALL ROUGH-IN REQUIREMENTS
215	1	WALK-IN KEG COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
216	1	WALK-IN KEG COOLER EVAPORATOR COIL	120	1	1.6	JB		JB DOWN FROM ABOVE, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
217	1	WALK-IN KEG COOLER CONDENSING UNIT	208	3	5.4	JB		JB LOCATION TBD BY ARCHITECT, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
222	1	DRAFT BEER SYSTEM	120	1	26.2	DR		DR DOWN FROM ABOVE; MOUNTED ON CEILING OF WALK-IN KEG COOLER
223	1	ICE MACHINE - LEASED	208	3	10.8	JB	72"	LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER DRAWINGS
223.2	1	ICE MACHINE CONDENSING UNIT - LEASED	208	1	1.3	JB		LEASED; JB LOCATION TBD BY ARCHITECT, VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER DRAWINGS
241	2	UNDERBAR DISHMACHINE - LEASED	120	1	12.0	JB	24"	LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER DRAWINGS
246	1	UNDERBAR ICE MACHINE - LEASED	120	1	4.1	SR	24"	LEASED; VERIFY ALL ROUGH-IN REQUIREMENTS WITH MANUFACTURER DRAWINGS
251	2	POS MONITOR - BY OTHERS	120	1	16.0	DR	48"	BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS
252	1	2-DOOR BACK BAR REFRIGERATOR	120	1	2.5	SR	24"	
253	2	2-DOOR BACK BAR REFRIGERATOR	120	1	2.5	SR	24"	
282	1	2-DOOR BACK BAR REFRIGERATOR	120	1	4.2	SR	24"	
283	1	2-DOOR BACK BAR REFRIGERATOR	120	1	4.2	SR	24"	
286	1	POS MONITOR - BY OTHERS	120	1	16.0	DR	48"	BY OTHERS; VERIFY ALL ROUGH-IN REQUIRMENTS

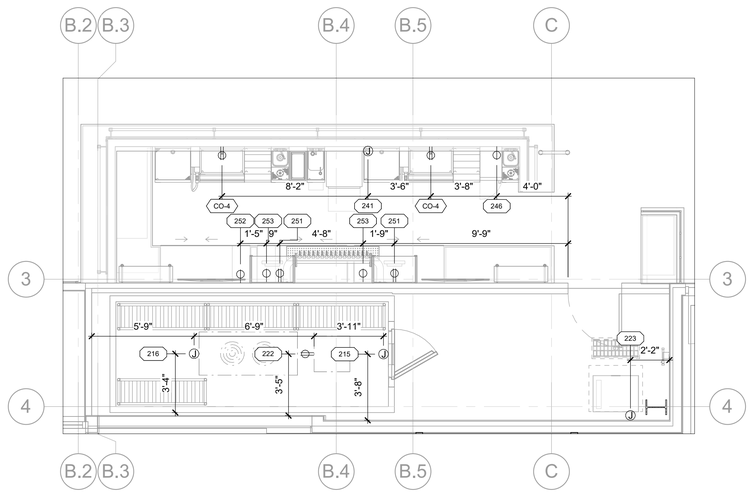
CONVENIENCE OUTLET SCHEDULE

ITEM NO.	QTY.	TYPE	TYPE AFF	ELECTRICAL REMARKS
CO-1	4	DR	48"	
CO-2	6	DR	0"	RETRACATABLE CONVENIENCE OUTLETS
CO-3	4	DR	44"	MOUNT RECEPTACLE HORIZONTAL
CO-4	2	DR	38"	MOUNT RECEPTACLE HORIZONTAL
CO-5	2	DR	38"	MOUNT RECEPTACLE HORIZONTAL



FOODSERVICE ELECTRICAL ROUGH-IN PLAN

1/4" = 1'-0"

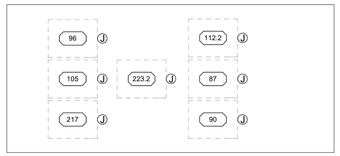


FOODSERVICE ELECTRICAL ROUGH-IN PLAN

1/4" = 1'-0"

REFRIGERATION EQUIPMENT

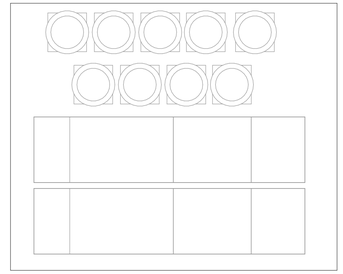
CONDENSING UNITS LOCATED ON CONCRETE SLAB/ BUILDING ROOF. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.



REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL REFRIGERATION EQUIPMENT.

EXHAUST/SUPPLY FAN EQUIPMENT

FANS LOCATED ON BUILDING ROOF. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.



REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL EXHAUST/SUPPLY FANS.

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Foodservice Equipment, Supplies and Design

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14603 W. 112th Street
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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.31.2025	2	OWNER COMMENTS

Q39 RESTAURANT

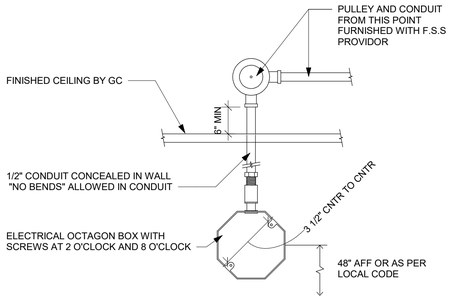
LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:	
DATE: 08.29.2025	PROJECT #: 2025078
DRAWN BY: JG	APPROVED BY: ABR

SHEET TITLE:
FOODSERVICE ELECTRICAL ROUGH-IN PLANS & SCHEDULE

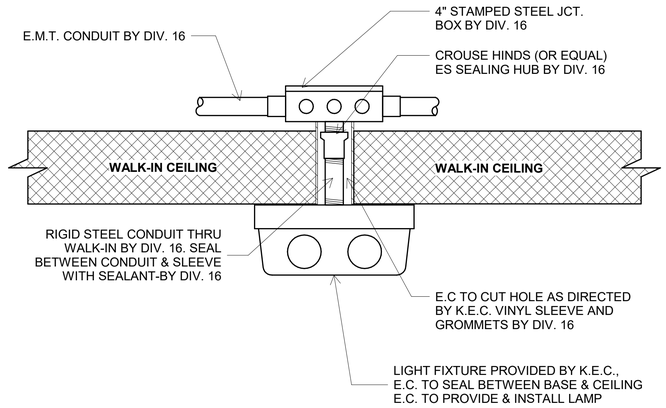
SHEET NUMBER:
QF302

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COMMENTS ONLY - NOTICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:59



FIRE SUPPRESSION REMOTE PULL STATION - TYP

3/4" = 1'-0"



1. ALL CONDUIT TO BE RUN ON EXTERIOR OF WALK-IN BY DIV. 16 UNLESS BOX IS LOCATED OUTDOORS. THEN CONDUIT IS RUN BELOW CEILING.
2. ALL PENETRATIONS THRU WALK-IN TO BE THOROUGHLY SEALED.
3. ALL LIGHT FICTURES TO BE FURNISHED BY K.E.C.
4. MOUNTING FIXTURES, ALL CONDUIT AND ALL INTER-WIRING BY DIV. 16.
5. ALL LAMPS (BULBS) TO BE FURNISHED BY OTHERS.

WALK-IN LIGHT DETAIL

3/4" = 1'-0"

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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:

DATE:	PROJECT #:
08.29.2025	2025078
DRAWN BY:	APPROVED BY:
JG	ABR

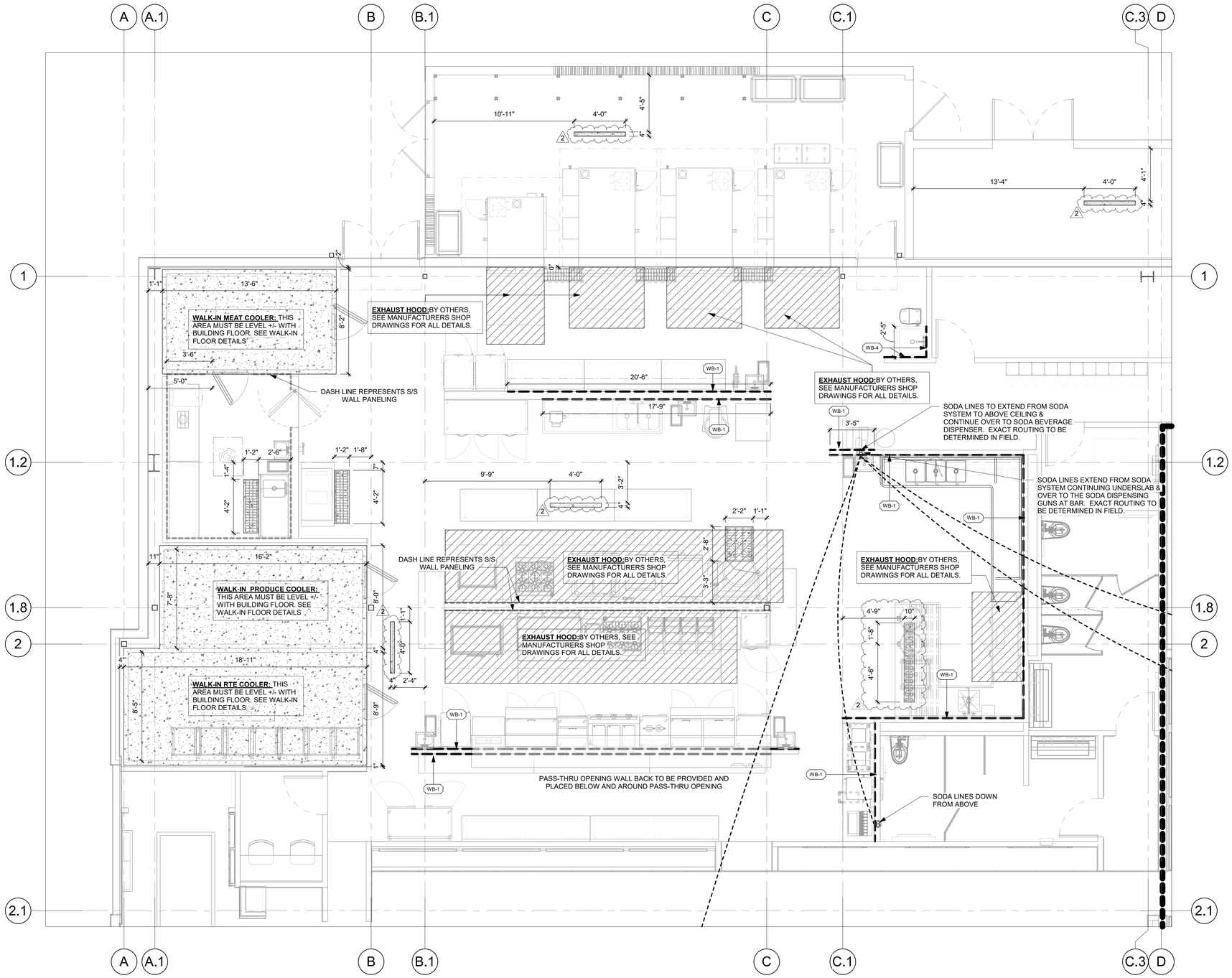
SHEET TITLE:

FOODSERVICE
ELECTRICAL DETAILS

SHEET NUMBER:

QF303

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:59



FOODSERVICE SPECIAL CONDITIONS PLAN

1/4" = 1'-0"

SPECIAL CONDITIONS LEGEND

- WALL BLOCKING
- PROPOSED STRUCTURAL SUPPORT
- NON-COMBUSTIBLE WALL

SPECIAL CONDITIONS NOTES

NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR (OR AS SPECIFIED OTHERWISE) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE PLAN(S). THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE THE EXACT BUILDING REQUIREMENTS FOR ALL NIC EQUIPMENT PRIOR TO CONSTRUCTION.

A. BUILDING FLOOR BENEATH WALK-IN MUST BE LEVEL WITHIN PLUS OR MINUS 1/8". REFER TO DETAIL #X/QFXXX.
B. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE X" DEEP FLOOR DEPRESSION FROM TOP OF FINISHED FLOOR FOR WALK-IN. REFER TO DETAIL #X/QFXXX.
C. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE PRESSURE TREATED WOOD THERMAL BARRIER CENTERED BENEATH WALK-IN WALLS. REFER TO DETAIL #X/QFXXX.
D. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE INSULATED FLOOR SLAB BENEATH WALK-IN. REFER TO DETAIL #X/QFXXX.
E. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE X" DEEP FLOOR DEPRESSION FROM FINISHED FLOOR FOR INSTALLATION OF FLOOR TROUGH BY PLUMBING CONTRACTOR (DIVISION 26). GENERAL CONTRACTOR TO BACK-FILL WITH GROUT. REFER TO DETAIL #X/QFXXX.
F. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL ROOF PAD FOR KEC (SECTION 114000) FURNISHED REFRIGERATION RACK.
G. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL CONCRETE PAD FOR KEC (SECTION 114000) FURNISHED REFRIGERATION RACK/CONDENSING UNITS.
H. REFRIGERATION CONTRACTOR SHALL FURNISH AND COORDINATE LOCATION OF EQUIPMENT RAILS AND PIPE CURBS FOR ROOFTOP CONDENSING UNIT(S).
I. HVAC/MECHANICAL CONTRACTOR (DIVISION 23) SHALL INSTALL KEC (SECTION 114000) FURNISHED RAILS & ROOF CURBS FOR EXHAUST FAN(S) AND MAKE-UP AIR UNIT(S).
J. KEC (SECTION 114000) SHALL FURNISH AND INSTALL RAILS AND ROOF CURBS FOR EXHAUST FAN(S) AND MAKE-UP AIR UNIT(S). GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FLASH-IN RAILS AND ROOF CURBS.
K. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE STRUCTURAL REINFORCEMENT ABOVE CEILING AS REQ'D FOR KEC (SECTION 114000) FURNISHED EQUIPMENT.
L. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE MINIMUM VERTICAL CLEARANCE OF X'-X" AT WALK-IN.
M. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE MINIMUM VERTICAL CLEARANCE OF X'-X" AT EXHAUST HOOD.
N. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE MINIMUM VERTICAL CLEARANCE OF X'-X" AT ICE MAKER.

WALL BLOCKING NOTES (DIVISION 6)

(WB-#)

WB-1	24" TO 96" AFF FOR GENERAL PURPOSE
WB-2	18" AFF TO 30" AFF FOR WATER FILTER
WB-3	30" AFF TO 60" AFF FOR HAND SINK
WB-4	48" AFF TO 60" AFF FOR WALL SHELF/MOP RACK/POT FILL/PRE-RINSE
WB-5	48" AFF TO 78" AFF FOR 2-TIER WALL SHELVES
WB-6	48" AFF TO 84" AFF FOR RACK SHELF
WB-7	54" AFF TO 90" AFF FOR WALL CABINET/SALAMANDER
WB-8	60" AFF TO 78" AFF FOR WATER FILTER
WB-9	66" AFF TO 84" AFF FOR POT RACK
WB-10	72" AFF TO CEILING FOR FIRE SUPPRESSION/HOOD CONTROL
WB-11	78" AFF TO 114" AFF FOR EXHAUST HOOD
WB-12	84" AFF TO 102" AFF FOR WATER FILTER/AIR CURTAIN
WB-13	102" AFF TO 114" AFF FOR CLG MOUNT AIR CURTAIN
WB-14	VERIFY WITH ARCHITECT FOR BACK BAR SUPERSTRUCTURE
WB-15	FINISHED FLOOR TO FINISHED CEILING

NOTE: GENERAL CONTRACTOR AND/OR SUBDIVISIONS TO PROVIDE 3/4" WALL BACKING FOR WALL MOUNTED EQUIPMENT. MATERIAL MUST MEET THE SIZE AND LOAD REQ'S OF THE SPECIFIED EQUIPMENT AND SHALL BE COMPLIANT WITH ALL LOCAL CODES, LAWS, AND REGULATIONS. PROVIDE METAL BACKING OR OTHER ACCEPTABLE MATERIAL AT EXHAUST HOODS AND FIRE RATED WALLS/ASSEMBLIES AS REQ'D BY THE AUTHORITY HAVING JURISDICTION. ALL WALL BACKING SHALL BE CONCEALED BEHIND WALL FINISH. NO EXPOSED WALL BACKING SHALL BE ACCEPTED. IN THE EVENT THE KEC MUST REPAIR OR REPLACE THE PROVIDED BACKING, THE KEC WILL NOT BE LIABLE FOR ANY DELAYS OR ADDED COSTS.

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Foodservice Equipment, Supplies and Design

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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.31.2025	2	OWNER COMMENTS

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

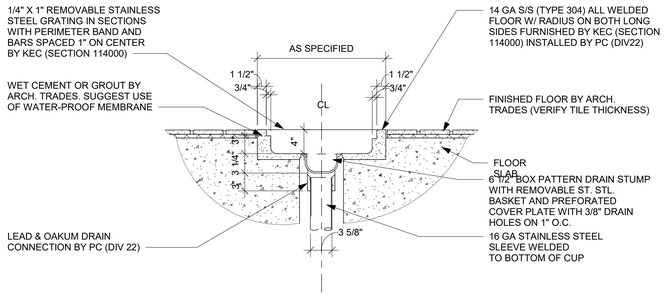
PROJECT PHASE:

DATE:	PROJECT #:
08.29.2025	2025078
DRAWN BY:	APPROVED BY:
JG	ABR

SHEET TITLE:
FOODSERVICE SPECIAL CONDITIONS PLAN

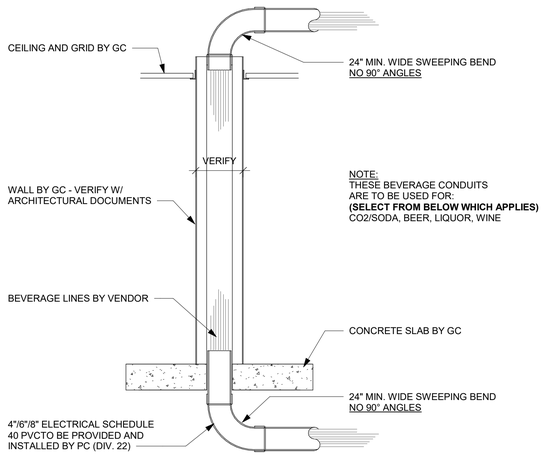
SHEET NUMBER:
QF401

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:59



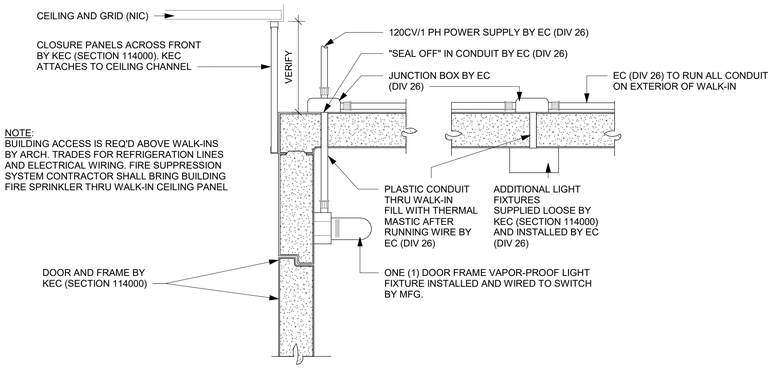
FLOOR TROUGH SECTION - TYP

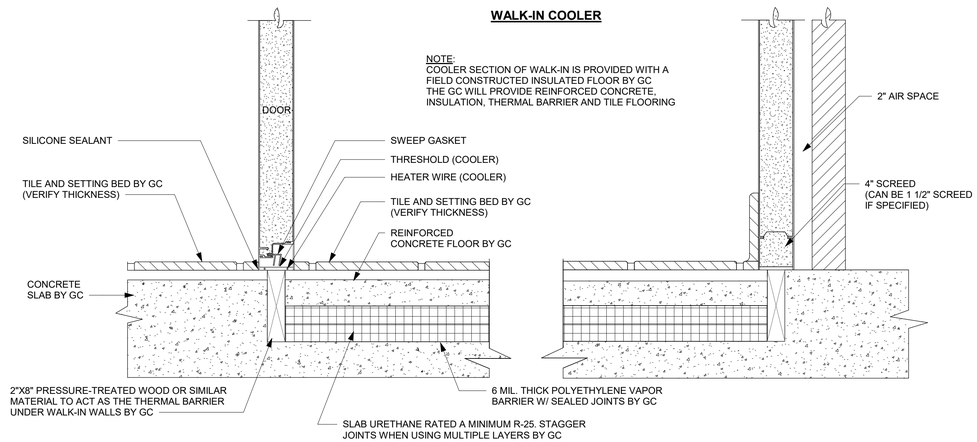
1" = 1'-0"



BEVERAGE CONDUIT - THRU WALL - TYP

1/2" = 1'-0"





WALK-IN COOLER ONLY W/ BUILT UP FLOOR - TYP

1 1/2" = 1'-0"

BEVERAGE/REFRIGERATION LEGEND

Ⓑ	BEVERAGE CONDUIT STUB UP
—R—R—	REFRIGERATION LINE SET
- - - - - - -	BEVERAGE/REFRIGERATION CONDUIT RUN
—OIL—OIL—	BULK COOKING OIL LINE SET

ⓧ BEVERAGE SYSTEM NOTES (DIVISION 26)

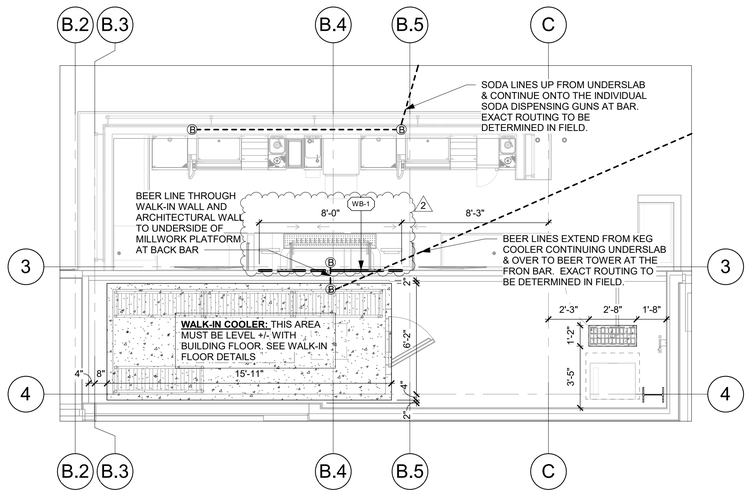
NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR (DIVISION 26) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE PLAN(S). THE ELECTRIC CONTRACTOR (DIVISION 26) SHALL VERIFY AND COORDINATE THE EXACT BEVERAGE REQUIREMENTS FOR ALL NIC EQUIPMENT PRIOR TO FINAL ROUGH-IN.

B-1 PROVIDE 6" ID CONDUIT.
B-2 PROVIDE 8" ID CONDUIT.
B-3 ROUTE CONDUIT BENEATH FLOOR AND STUB UP TO 4" AFF. REFER TO DETAIL #X/QFXXX.
B-4 ROUTE CONDUIT ABOVE FINISHED CEILING AND DOWN THRU WALL/CHASE. REFER TO DETAIL #X/QFXXX.
B-5 ROUTE CONDUIT THRU WALL/CHASE AND STUB OUT AT 12" AFF. REFER TO DETAIL #X/QFXXX.

ⓧ REFRIGERATION NOTES

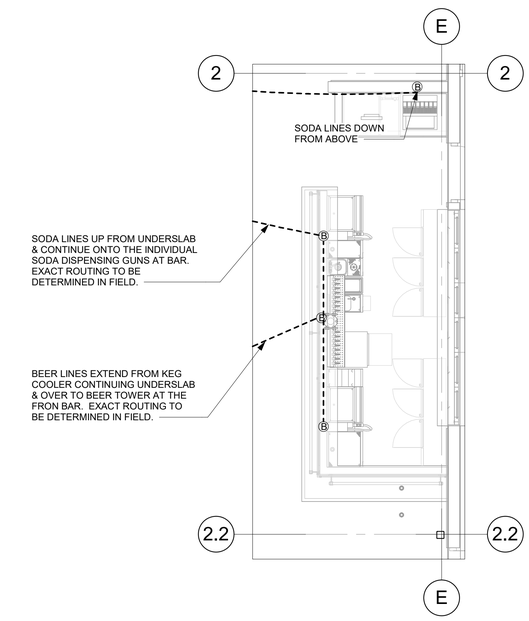
NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR (DIVISION 26) UNLESS NOTED OTHERWISE AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE PLAN(S). THE ELECTRIC CONTRACTOR (DIVISION 26) SHALL VERIFY AND COORDINATE THE EXACT REFRIGERATION REQUIREMENTS FOR ALL NIC EQUIPMENT PRIOR TO FINAL ROUGH-IN.

A. REFRIGERATION CONTRACTOR SHALL PROVIDE INSULATED REFRIGERATION PIPING TO SYSTEM ON ROOF. PIPING SHALL BE CONCEALED WITHIN WALLS AND CEILINGS WHERE APPLICABLE.
B. ELECTRICAL CONTRACTOR (DIVISION 26) SHALL PROVIDE X" CONDUIT IN WALL TO ABOVE CEILING FOR REFRIGERATION PIPING. REFER TO DETAL #X/QFXXX.
C. ELECTRICAL CONTRACTOR (DIVISION 26) SHALL PROVIDE X" CONDUIT ABOVE FINISHED CEILING FOR REFRIGERATION LINES.
D. ELECTRICAL CONTRACTOR (DIVISION 26) SHALL PROVIDE MIN. 12"X12" PULL BOX IN WALL FOR REFRIGERATION LINES. ROUTE CONDUIT WITHIN WALLS AND ABOVE CEILINGS TO PULL BOX. REFER TO DETAIL #X/QFXXX.
E. ELECTRICAL CONTRACTOR (DIVISION 26) SHALL PROVIDE MIN. 18"X18" PULL BOX IN WALL FOR REFRIGERATION LINES. ROUTE CONDUIT WITHIN WALLS AND ABOVE CEILINGS TO PULL BOX. REFER TO DETAIL #X/QFXXX.



FOODSERVICE SPECIAL CONDITIONS PLAN

1/4" = 1'-0"



FOODSERVICE SPECIAL CONDITIONS PLAN

1/4" = 1'-0"

TriMark
Foodservice Equipment, Supplies and Design

North : Hockenbergs
14603 W. 112th Street
Lenexa, KS 66215

p. 913-491-4999

trimarkusa.com

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REVISIONS

DATE	NO.	DESCRIPTION
10.02.2025	1	MEP SET
10.31.2025	2	OWNER COMMENTS

Q39 RESTAURANT

LEE'S SUMMIT, MISSOURI
OLDHAM VILLAGE

PROJECT PHASE:	
DATE: 08.29.2025	PROJECT #: 2025078
DRAWN BY: JG	APPROVED BY: ABR

SHEET TITLE:
FOODSERVICE SPECIAL CONDITIONS PLAN & DETAILS

SHEET NUMBER:
QF402

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:59

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-FR	XXEW-68-S	68	54	24	430 SS WHERE EXPOSED	HEAVY	1275	10	12		1275	0.541	896		266	LEFT
2	KEH-FR	XXEW-122-S	122	54	24	430 SS WHERE EXPOSED	HEAVY	2033	10	18		2033	0.52	1580		503	RIGHT

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)					
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS		
							L	H		TYPE	SIZE	MODEL	INTERFACE	
1	KEH-FR	ROUND LED	2	70.56	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	3	16	20						
						1	20							
2	KEH-FR	ROUND LED	2	60.77	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	0	16	20	RIGHT			XKC	MB TOUCHSCREEN	
						6	20							

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-FR	FRONT	ASP	68	18	4	NO	YES	NO		896	0.01	MUA	LOOSE	2	16	22		448	183
2	KEH-FR	FRONT	ASP	134	18	4	NO	YES	NO		1580	0	MUA	LOOSE	3	16	30		527	158

HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- 18 IN HIGH CEILING ENCLOSURES - FRONT RIGHT - FIELD INSTALLED
- CONTINUOUS CAPTURE
- SHIPPED LOOSE EXHAUST COLLAR(S)
- BACKSPLASH 80.00 IN HIGH 266.00 IN LONG
- LEFT SIDESPLASH 122.00 IN HIGH 6.00 IN LONG
- RIGHT SIDESPLASH 122.00 IN HIGH 30.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-FL	XXEW-68-S	68	54	24	430 SS WHERE EXPOSED	EXTRA HEAVY	2267	12	18		2267	1.097	1631		259	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)					
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS		
							L	H		TYPE	SIZE	MODEL	INTERFACE	
1	KEH-FL	ROUND LED	2	70.56	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	3	16	20						
						1	20							

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-FL	FRONT	ASP	68	18	4	NO	YES	NO		1631	0.04	MUA	LOOSE	2	16	22		816	334

HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
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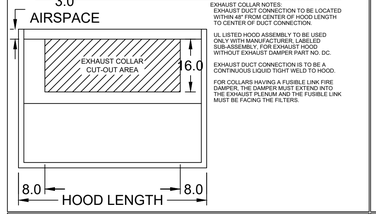
- 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT - FIELD INSTALLED
- SHIPPED LOOSE EXHAUST COLLAR(S)
- LEFT INSULD END PNL W/ ADJ LEG 80IN HIGH 27IN TOP WIDTH 21IN BOTTOM WIDTH
- HOOD CONTAINS SOLID FUEL COOKING APPLIANCES
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

SPECIAL DESIGN REQUESTS

- SDR #K2500507 - PROVIDE (1) CUSTOM 42" TOP WIDE INSULATED END PANEL. MAINTAIN FRONT FACE ANGLE

SHIPPED LOOSE DUCT COLLAR INST. DETAIL



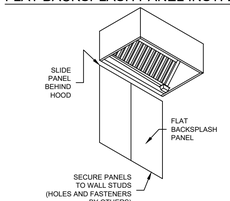
EXHAUST COLLAR NOTES:
EXHAUST DUCT CONNECTION TO BE LOCATED WITHIN 48" FROM CENTER OF HOOD LENGTH TO CENTER OF DUCT CONNECTION.

UL LISTED HOOD ASSEMBLY TO BE USED ONLY WITH MANUFACTURER, LABELED SUB-ASSEMBLY, FOR EXHAUST HOOD WITHOUT EXHAUST DAMPER PART NO. DC.

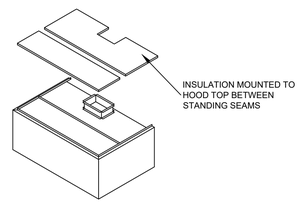
EXHAUST DUCT CONNECTION IS TO BE A CONTINUOUS LIQUID TIGHT WELD TO HOOD.

FOR COLLARS HAVING A FUSIBLE LINK FIRE DAMPER, THE DAMPER MUST EXTEND INTO THE EXHAUST PLENUM AND THE FUSIBLE LINK MUST BE FACING THE FILTERS.

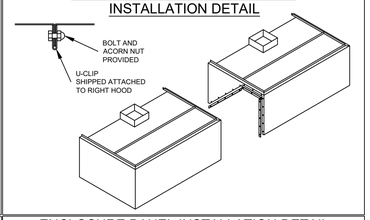
FLAT BACKSPLASH PANEL INST. DETAIL



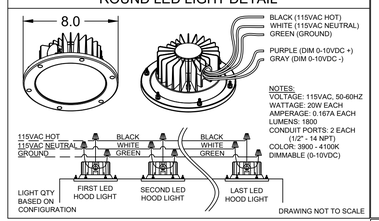
ZERO CLEARANCE TO HOOD TOP



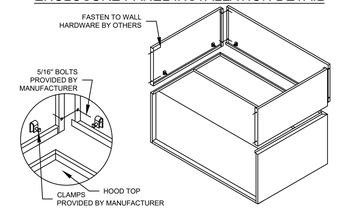
CONTINUOUS CAPTURE PLENUM INSTALLATION DETAIL



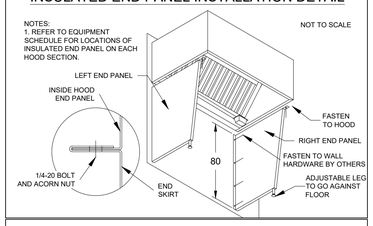
ROUND LED LIGHT DETAIL



ENCLOSURE PANEL INSTALLATION DETAIL



INSULATED END PANEL INSTALLATION DETAIL



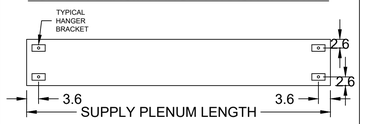
HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

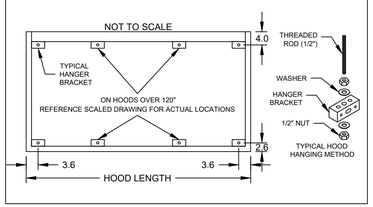
☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

SUPPLY PLENUM HANGER BRACKET DETAIL



HOOD HANGER BRACKET DETAIL



PROJECT 9/25/2025

MARK

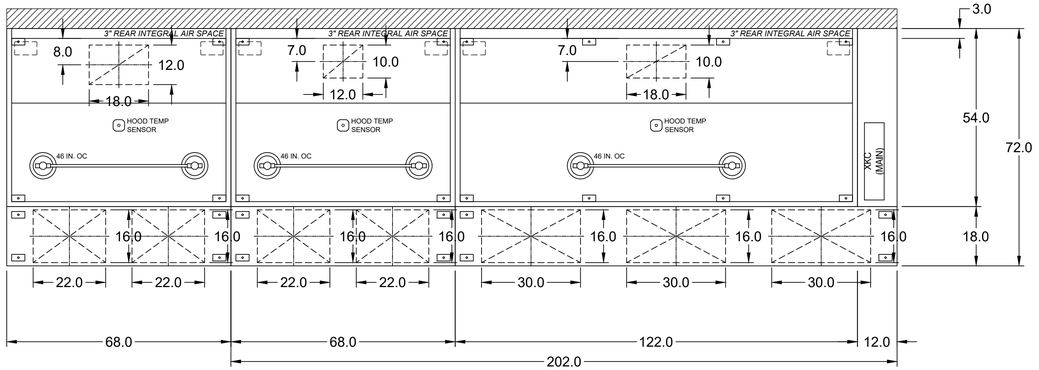
Q39 LEE'S SUMMIT R2

KEH-FR & KEH-FL

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

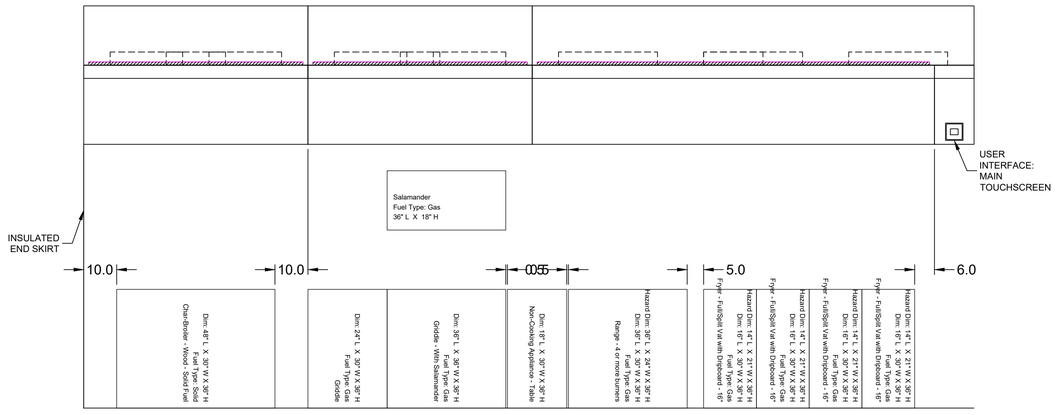
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:10:59



MARK: KEH-FL - SECTION 1
PLAN VIEW

MARK: KEH-FR - SECTION 1
PLAN VIEW

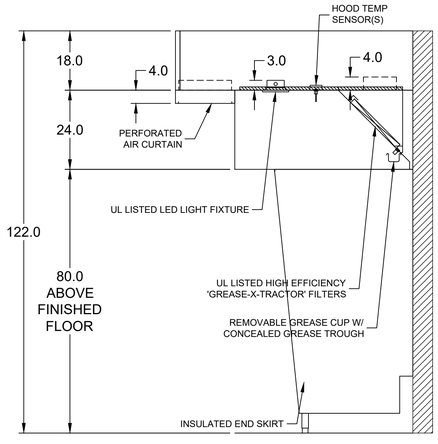
MARK: KEH-FR - SECTION 2
PLAN VIEW



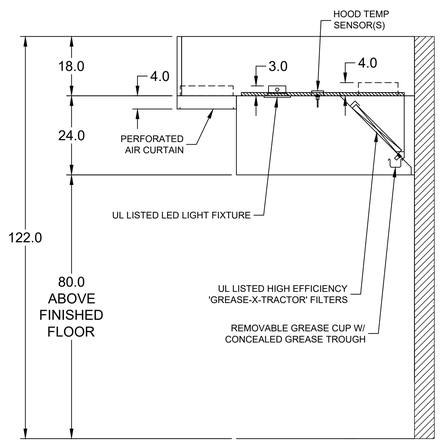
MARK: KEH-FL - SECTION 1
ELEVATION VIEW

MARK: KEH-FR - SECTION 1
ELEVATION VIEW

MARK: KEH-FR - SECTION 2
ELEVATION VIEW

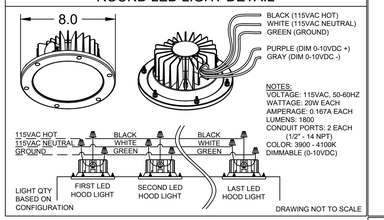


MARK: KEH-FR (LAST HOOD IN ROW)
SECTION VIEW

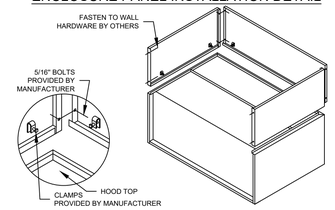


MARK: KEH-FL
SECTION VIEW

ROUND LED LIGHT DETAIL



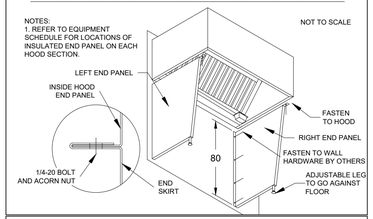
ENCLOSURE PANEL INSTALLATION DETAIL



INSULATED END PANEL INSTALLATION DETAIL

NOTES:
1. REFER TO EQUIPMENT SCHEDULE FOR LOCATIONS OF INSULATED END PANEL ON EACH HOOD SECTION.

NOT TO SCALE



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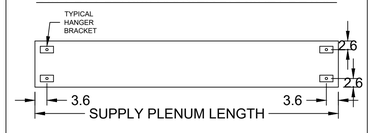
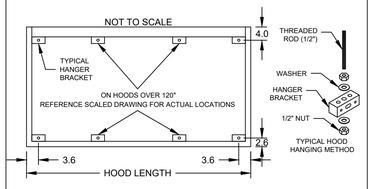
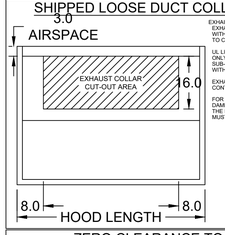
SUPPLY PLENUM HANGER BRACKET DETAIL



HOOD HANGER BRACKET DETAIL



SHIPPED LOOSE DUCT COLLAR INST. DETAIL



EXHAUST COLLAR NOTES:
EXHAUST DUCT CONNECTION TO BE LOCATED WITHIN 48" FROM CENTER OF HOOD LENGTH TO CENTER OF DUCT CONNECTION.

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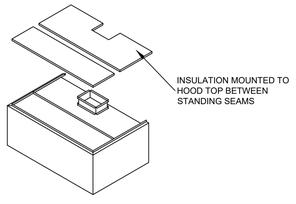
EXHAUST DUCT CONNECTION IS TO BE A CONTINUOUS LIQUID TIGHT WELD TO HOOD.

FOR COLLARS HAVING A FUSIBLE LINK FIRE DAMPER, THE DAMPER MUST EXTEND INTO THE EXHAUST PLENUM AND THE FUSIBLE LINK MUST BE FACING THE FILTERS.

ZERO CLEARANCE TO HOOD TOP



Q39 LEE'S SUMMIT R2

KEF-FR & KEH-FL

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:00

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-BR	XXEW-68-S	68	60	24	430 SS WHERE EXPOSED	EXTRA HEAVY	2267	12	18		2267	1.097	1631		267	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KEH-BR	ROUND LED	2	70.56	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	3	16	20					
						1	20						

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-BR	FRONT	ASP	68	18	4	NO	YES	NO		1631	0.04	MUA	LOOSE	2	16	22		816	334

HOOD OPTIONS

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- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- 18 IN HIGH CEILING ENCLOSURES - FRONT RIGHT - FIELD INSTALLED
- SHIPPED LOOSE EXHAUST COLLAR(S)
- RIGHT INSULD END PNL W/ ADJ LEG 80IN HIGH 27IN TOP WIDTH 21IN BOTTOM WIDTH
- HOOD CONTAINS SOLID FUEL COOKING APPLIANCES
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

SPECIAL DESIGN REQUESTS

SDR #K2500507 - PROVIDE (1) CUSTOM 42" TOP WIDE INSULATED END PANEL. MAINTAIN FRONT FACE ANGLE

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-BL	XBEW-89-S	89	60	24	430 SS WHERE EXPOSED	HEAVY	2003	12	16		2003	0.462	1347		370	LEFT
2	KEH-BL	XBEW-144-S	144	60	24	430 SS WHERE EXPOSED	HEAVY	2400	10	22		2400	0.399	1863		443	RIGHT

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KEH-BL	ROUND LED	2	66.3	BAFFLE STAINLESS STEEL	3	16	20	LEFT				
						2	20						
2	KEH-BL	ROUND LED	3	69.77	BAFFLE STAINLESS STEEL	4	16	20					
						4	20						

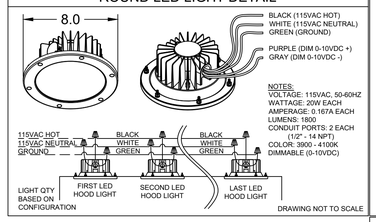
SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-BL	FRONT	ASP	101	18	4	NO	YES	NO		1347	0.01	MUA	LOOSE	2	16	30		674	202
2	KEH-BL	FRONT	ASP	144	18	4	NO	YES	NO		1863	0.01	MUA	LOOSE	3	16	30		621	186

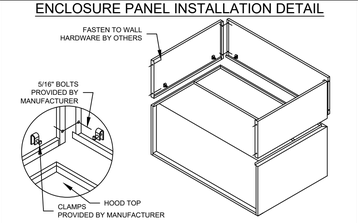
HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
- CONTINUOUS CAPTURE
- SHIPPED LOOSE EXHAUST COLLAR(S)
- BACKSPLASH 80.00 IN HIGH 308.00 IN LONG
- LEFT SIDESPLASH 122.00 IN HIGH 6.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

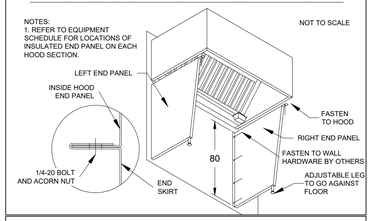
ROUND LED LIGHT DETAIL



ENCLOSURE PANEL INSTALLATION DETAIL



INSULATED END PANEL INSTALLATION DETAIL



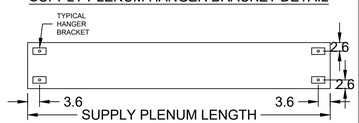
HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

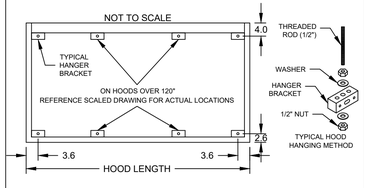
☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

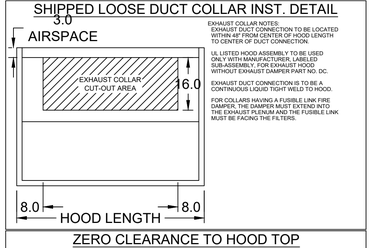
SUPPLY PLENUM HANGER BRACKET DETAIL



HOOD HANGER BRACKET DETAIL



SHIPPED LOOSE DUCT COLLAR INST. DETAIL



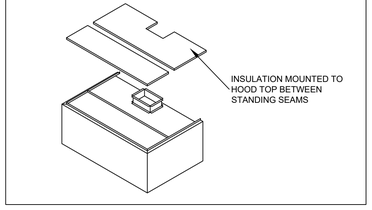
EXHAUST COLLAR NOTES:
EXHAUST DUCT CONNECTION TO BE LOCATED WITHIN 48" OF CENTER OF HOOD LENGTH TO CENTER OF DUCT CONNECTION.

UL LISTED HOOD ASSEMBLY TO BE USED ONLY WITH MANUFACTURER, LABELED SUB-ASSEMBLY, FOR EXHAUST HOOD WITHOUT EXHAUST DAMPER PART NO. DC.

EXHAUST DUCT CONNECTION IS TO BE A CONTINUOUS LIQUID TIGHT WELD TO HOOD.

FOR COLLARS HAVING A FUSIBLE LINK FIRE DAMPER, THE DAMPER MUST EXTEND INTO THE EXHAUST PLENUM AND THE FUSIBLE LINK MUST BE FACING THE FILTERS.

ZERO CLEARANCE TO HOOD TOP



Q39 LEE'S SUMMIT R2

KEH-BR & KEH-BL

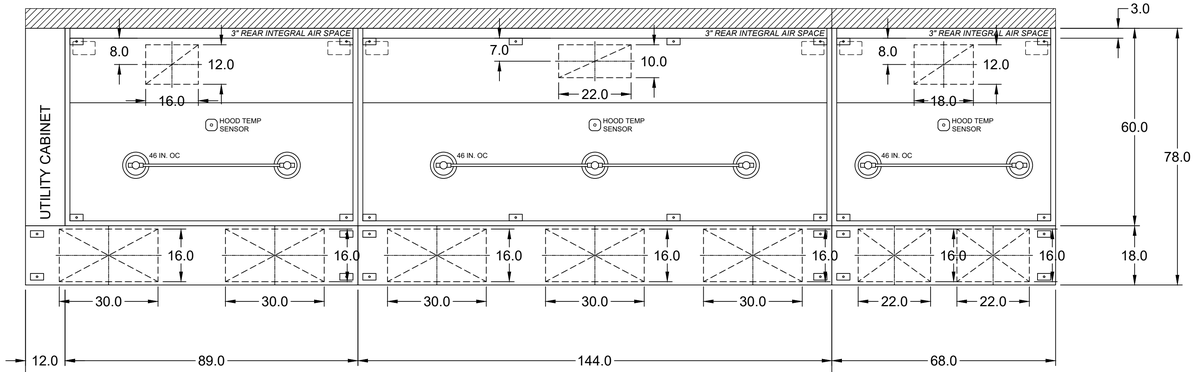
PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

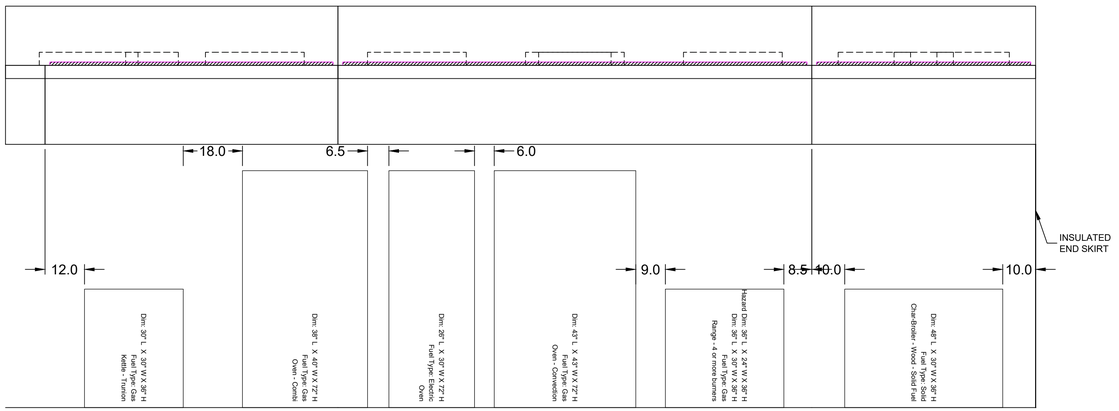
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:00



MARK: KEH-BL - SECTION 1
PLAN VIEW

MARK: KEH-BL - SECTION 2
PLAN VIEW

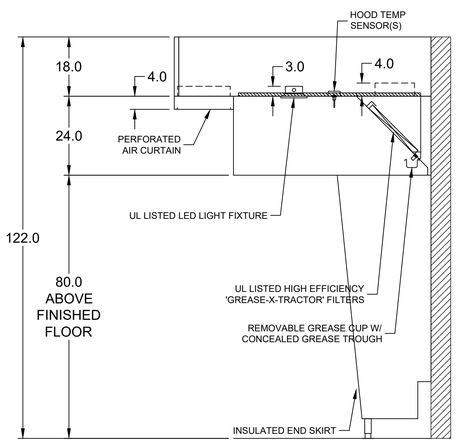
MARK: KEH-BR - SECTION 1
PLAN VIEW



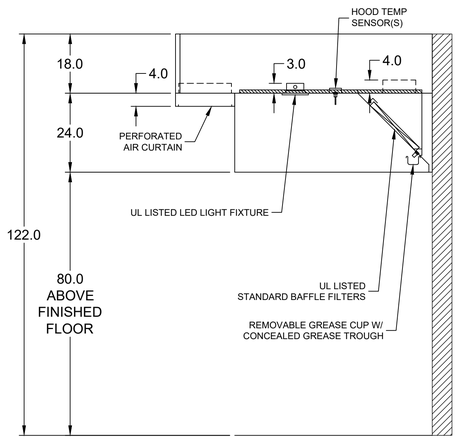
MARK: KEH-BL - SECTION 1
ELEVATION VIEW

MARK: KEH-BL - SECTION 2
ELEVATION VIEW

MARK: KEH-BR - SECTION 1
ELEVATION VIEW

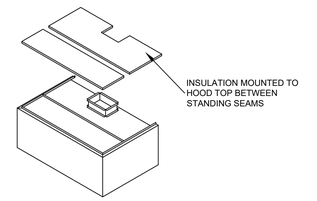


MARK: KEH-BR
SECTION VIEW

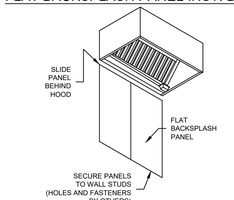


MARK: KEH-BL (LAST HOOD IN ROW)
SECTION VIEW

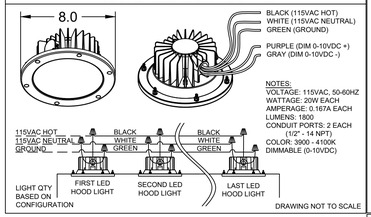
ZERO CLEARANCE TO HOOD TOP



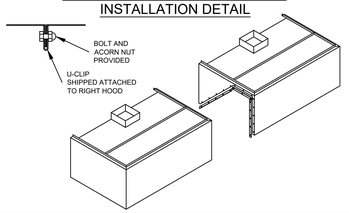
FLAT BACKSPLASH PANEL INST. DETAIL



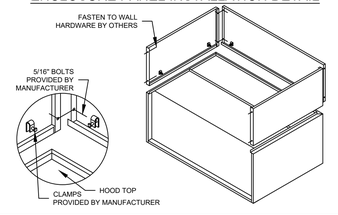
ROUND LED LIGHT DETAIL



CONTINUOUS CAPTURE PLENUM INSTALLATION DETAIL



ENCLOSURE PANEL INSTALLATION DETAIL



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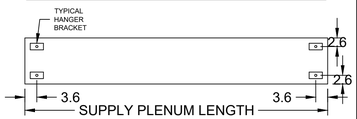
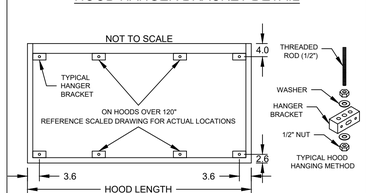
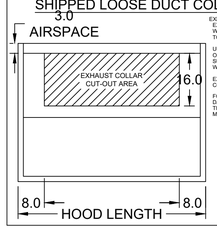
SUPPLY PLENUM HANGER BRACKET DETAIL



HOOD HANGER BRACKET DETAIL



SHIPPED LOOSE DUCT COLLAR INST. DETAIL



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Q39 LEE'S SUMMIT R2

KEH-BR & KEH-BL

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:00

Direct Drive Upblast Centrifugal Roof Exhaust Fan

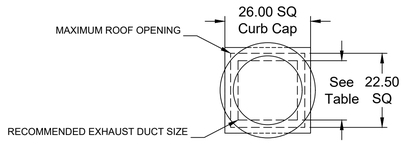
MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION							
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR
KEF-3	1	XCUE-140-VG	Direct	1,275	1.076	1.076	1,355	741.28	0	85.6	60.1	11.04	0	0	0	0.42	0.75	0	OP	277	60	1	VariGreen

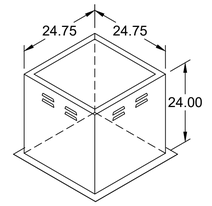
KEF-FLR : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 26 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Aluminum Wheel Material

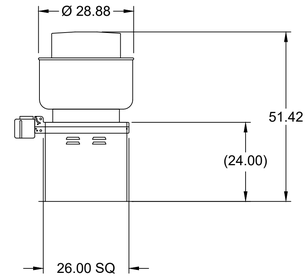
DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

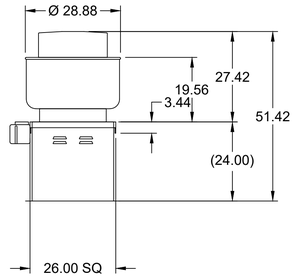
OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ









Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION								
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*
KEF-1	1	XCUE-140-VG	Direct	2,033	1.02	1.02	1,552	1,181.98	1.38	92	64.97	12.71	0	0	0	0.68	1	0.6	OP	277	60	1	VariGreen	6.6

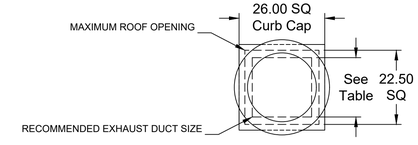
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

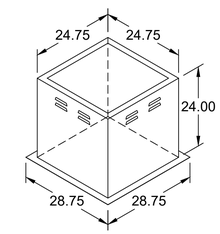
KEF-FR : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 26 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Fastener Material: Stainless
Grease Trap (PN 475538)
Aluminum Wheel Material

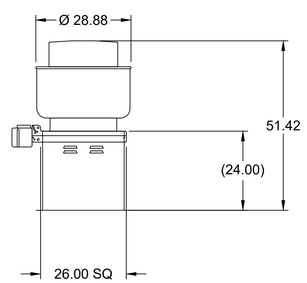
DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

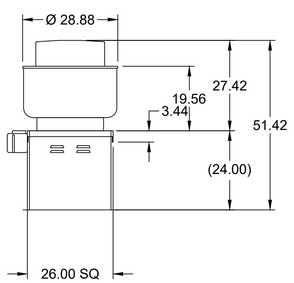
OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ









Q39 LEE'S SUMMIT R2

KEF-3 & KEF-1

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:00

Direct Drive Upblast Centrifugal Roof Exhaust Fan

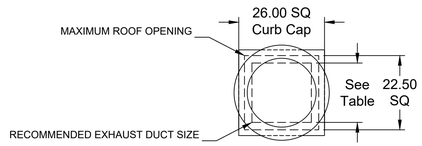
MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION							
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR
KEF-5	1	XCUE-160-VG	Direct	2,400	0.899	0.899	1,196	1,395.35	1.57	99.4	66.19	14.41	0	0	0	0.64	1	0	TN	277	60	1	VariGreen

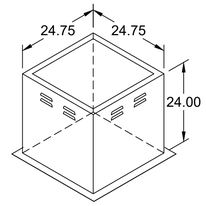
KEF-BLR : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 26 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Aluminum Wheel Material

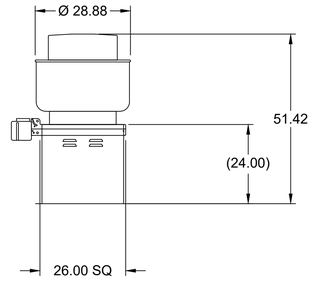
DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

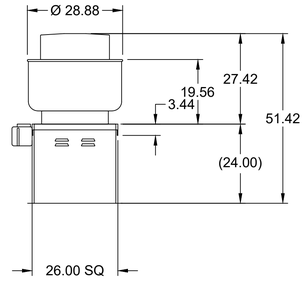
OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ









Direct Drive Upblast Centrifugal Roof Exhaust Fan

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KEF-4	1	XCUE-160-VG	Direct	2,003	0.962	0.962	1,139	1,164.53	0	93.6	64.53	13	0	0	0	0.54	0.75	0	OP	277	60	1	VariGreen

KEF-BL : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 26 Square
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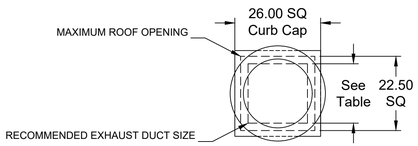
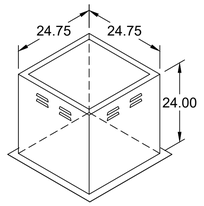
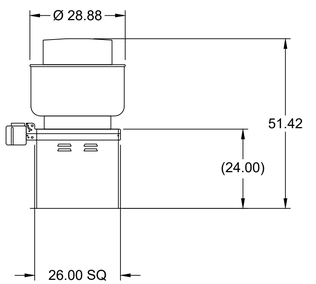
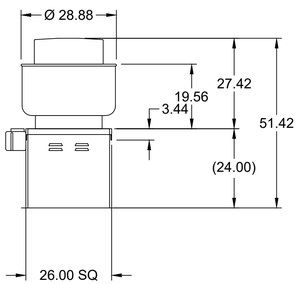
FIRE-WRAPPED	12 SQ









Q39 LEE'S SUMMIT R2

KEF-5 & KEF-4

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

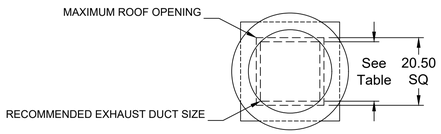
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:00

Ultimate Steel Grease Fan

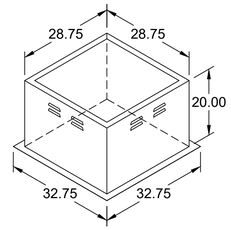
MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION								
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*
KEF-2	1	XRUBS-180-20	Belt	4,534	0.75	0.75	1,364	1,552.74	0.94	309	71.78	20.99	0	0	0	1.62	2	1.45	OP	460	60	3	No	3.4

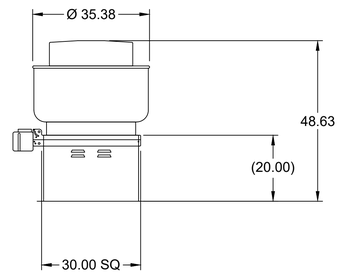
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

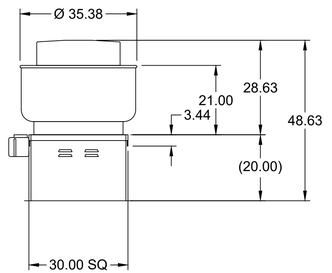
KEF-FL, BR : SELECTED OPTIONS AND ACCESSORIES
Curb Cap Size - 30 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinged Base (Attached)
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Coated with Permatector, Concrete Gray-RAL 7023, Fan And Attached Acc
Non-Stick Coated Wheel
Grease Trap (PN 475538)
Heat Baffle (Attached)
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)
Clean-out Port - Factory Installed
Steel Wheel Material



DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	10 SQ







DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON
MOTOR, ADAPTER, AND/OR HINGE BASE.

Q39 LEE'S SUMMIT R2

KEF-2

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
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ACCUREX

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:01

EQUIPMENT SCHEDULE

Tempered Make-Up Air Unit

Mark: KSF-1

Qty	Accurex Model	Volume	External SP	Total SP	MCA	MOP	Weight	SCCR
1	XDGX-P122-H22-D1-16	8,935 CFM	0.5 in. wg	2.674	38.2	50	2,435 lb	NA

Motor Information

Size	V/C/P	Enclosure	Motor with Shaft Gounding	Motor RPM	Operating Power
7 1/2 hp	460/60/3	TF	No	1800	7.05 hp

Heating

Type	Gas Type	Temperature			Energy			Connection Gas (IN)	Building Gas Pressure	Control Access	Gas Pressure	
		Winter DB	Max Δ	Max LAT	Input	Output	Efficiency				Min	Max
Direct Gas	Natural	3 F	76.3 F	78.9 F	800.0 MBH	736.0 MBH	92%	1"	1/2 PSI	No	12 PSI	5 PSI

Cooling

Cooling Type	Coil Model	Rows Deep	Fins Per Inch	Face Velocity	Total Energy	Sensible Energy	Entering Air (F)		Leaving Air (F)	
							Dry	Wet	Dry	Wet
0	DX38S02S10-36x55-RH	2	10	NA	200.1 MBH	191.3 MBH	97 F	80 F		

Coil SP	Refrigerant	Suction Temp	Liquid Temp	Super Heat	Code 18/19	Suction Conn Qty / Size	Liquid Conn Qty / Size
NA	R_454b	49 F			0	NA	NA

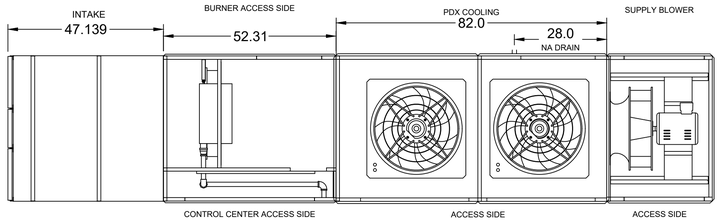
Outlet Sound Power By Octave Band

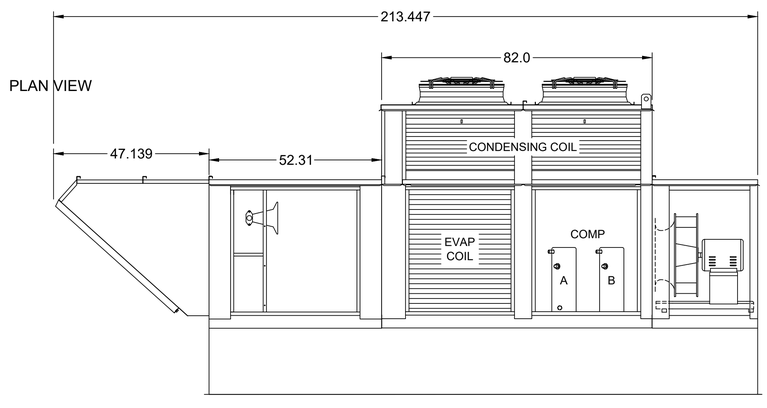
62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*

*LwA - A weighted sound power level based on ANSI S1.4
*dBA - A weighted sound pressure level base on 11.1 dB attenuation per octabe band at 5.0 ft.
*Noise Criteria (NC) based on an average attenuation of 11.5 dB per octabe band at 5.0 ft.

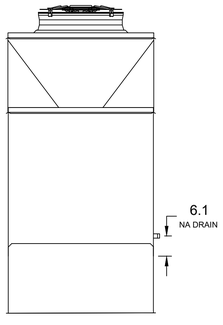
OPTIONS AND ACCESSORIES

Make Up Air
Air Flow Arrangement: Variable Volume
Weatherhood: Aluminum Mesh, 16x25x2 - (4), 12x25x2 - (2)
Damper: Inlet
Outdoor Air Intake Position: End
Return Air Intake Position: None
Discharge Position: Bottom
Coating: Galvanized
Cooling Coil Coating - None
Insulation: Double Wall - Tempering On
Supply Fan Control: VFD
VFD Control: 0-10 VDC By Others
Hinged Access
Access Side: Right-Hand
Unit Weight: 2,435 lb
Control Center
Freeze Protection
Heat Inlet Air Sensor
Cool Inlet Air Sensor
Unit Controls: Microprocessor
Temperature Control: Discharge





ELEVATION VIEW



END VIEW

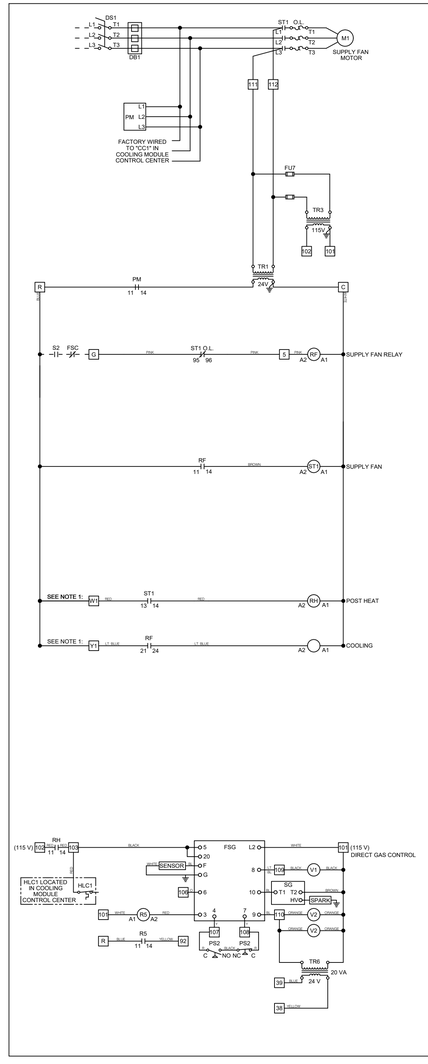
NOTE: Roof Opening Requirements:

Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb.
This is by design, in order to help alleviate water infiltration issues.

FOOTPRINT



ACCUREX

Wiring Diagram Code:

CAUTION
UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C.
POWER MUST BE OFF WHILE SERVICING.

NOTES
USE COPPER CONDUCTORS ONLY
60° C FOR TERMINALS RATED LESS THAN 100 AMPS.
75° C FOR TERMINALS RATED 100 AMPS OR MORE.

FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM.

FIELD WIRED
FACTORY SUPPLIED AND WIRED

NOTE: #1
FOR EXTERNAL HEAT AND BLOWER MOTOR CONTROL, JUMPER AND REMOVE FACTORY INSTALLED EXTERNAL CONTACT.

WIRE COLOR CODE

BK	BLACK	BL	BLUE	BR	BROWN	GY	GRAY
LT BL	LIGHT BLUE	O	ORANGE	PK	PINK	PR	PURPLE
R	RED	W	WHITE	Y	YELLOW		

LEGEND

AMP	AMPLIFIER
CO2	CARBON DIOXIDE SENSOR
D3	OUTDOOR DAMPER
D4	RECIRCULATING DAMPER
DS1	MAIN DISCONNECT SWITCH
FSC	FIRE SYSTEM CONTACT
FSG	FLAME SAFE GUARD
HLC	HIGH LIMIT CONTROL
M#	MOTOR
MOD	MODULATING VALVE
OL#	MOTOR OVERLOAD
FALSE	
PS2	AIR PROVING SWITCH
RS	ALARM RELAY
RB	POC LATCHING RELAY
RC	COOL RELAY
RD	DAMPER RELAY
RF	SUPPLY FAN RELAY
RH	HEAT RELAY
S2	FAN SWITCH
S4	HEAT AND COOL SWITCH
SG	SPARK GENERATOR
ST#	MOTOR STARTER
TR#	TRANSFORMER
TS2	DISCHARGE AIR SENSOR
V1	PILOT VALVE
V2	MAIN VALVE

Wiring Template: M28 DOC NUMBER: ---- REV: ----

Q39 LEE'S SUMMIT R2

MUA-1

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
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(417)920-5245

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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CONTROL INFORMATION

MARK	MAIN ELECTRICAL CONTROL PACKAGE		MAIN USER INTERFACE	
	MODEL	LOCATION	TYPE	LOCATION
KEC-1	XKC-DCV-S-51-6-1-0	RIGHT CABINET ON KEH-FR	FULL COLOR TOUCHSCREEN	CABINET – RIGHT CABINET ON KEH-FR

FANS CONTROLLED

FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
1	EXHAUST	E1	KEF-1	1	2033	1	277	60	1	NO	NO
2	EXHAUST	E2	KEF-2	1	4534	2	460	60	3	NO	YES
3	EXHAUST	E3	KEF-3	1	1275	0.75	277	60	1	NO	NO
4	EXHAUST	E4	KEF-4	1	2003	0.75	277	60	1	NO	NO
5	EXHAUST	E5	KEF-5	1	2400	1	277	60	1	NO	NO
6	SUPPLY	S1	MUA-1	1	8935	7.5	460	60	3	NO	NO

CONTROL FEATURES

- HOOD LIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY. 6
- DRY FIRE CONTACTS - QTY. 2
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE

ACCUREX

DOC NUMBER: ---- REV: ----

CAUTION
UNIT MUST BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

ATTENTION
L'APPAREIL DOIT ÊTRE MIS À LA TERRE CONFORMÉMENT AU CODE C.E. L'ALIMENTATION DOIT ÊTRE COUPÉE DURANT L'ENTRETIEN.

C US LISTED 43BM

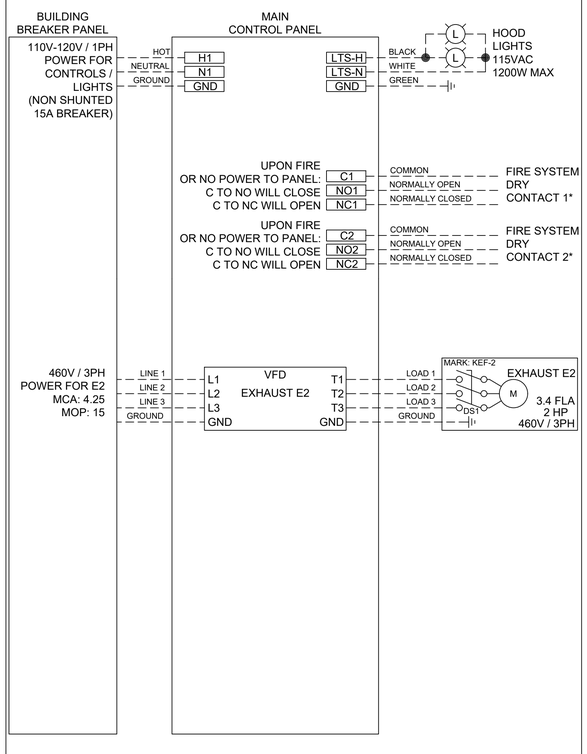
COMMERCIAL APPLIANCE OUTLET CENTER
ELECTRICAL RATINGS: 110-240V,1PHASE, 50-60HZ,15A
BASE FILE #E200616, ML FILE #E313951

THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE POWER LUGS/SCREWS TO COMPONENT RATINGS LISTED. TORQUE CONTROL BOARD SCREW TERMINALS TO 3.5 LBS. IN. FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL FACTORY AT 1-800-371-6858.
PRG VERSION: V5
FIELD WIRED (CÂBLÉ LOCALEMENT) - - - - -
FACTORY WIRED (CÂBLÉ À L'USINE) ———

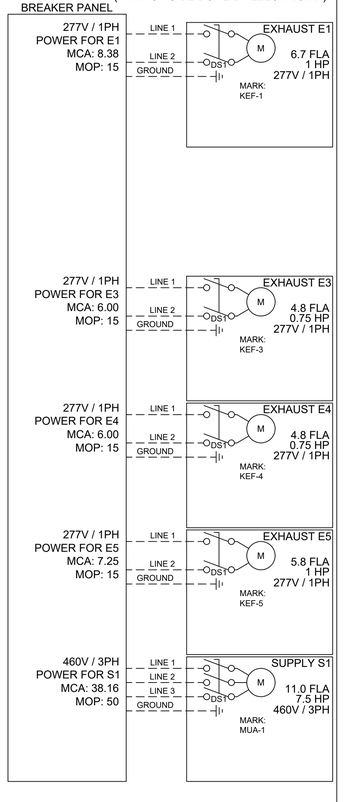
NE PAS RETIRER CES DESSINS DE CET ÉQUIPEMENT. SAUF INDICATION CONTRAIRE, UTILISER DES CONDUCTEURS EN CUIVRE CLASSÉS 90 °C. SERRER LES BORNES DE COMMANDE ET DE MISE À LA TERRE À 8 LB-PO. SERRER LES COSSES/VIS D'ALIMENTATION AUX COUPLES INDIQUÉS POUR LE COMPOSANT. SERRER LES BORNES À VIS DE LA CARTE DE COMMANDE À 3,5 LB-PO. LA RÉSISTANCE DU CÂBLAGE DE COMMANDE LOCAL NE DOIT PAS DÉPASSER 0,75 OHM. POUR PLUS D'INFORMATION, CONSULTER LE MANUEL OU APPELER 1-800-371-6858

WIRING DIAGRAM CODE: WDC#
JOB NAME: Q39 LEE'S SUMMIT R2
MODEL: XKC-DCV-S-51-6-1-0
SERIAL NUMBER: WDSN#
MARK: KEC-1

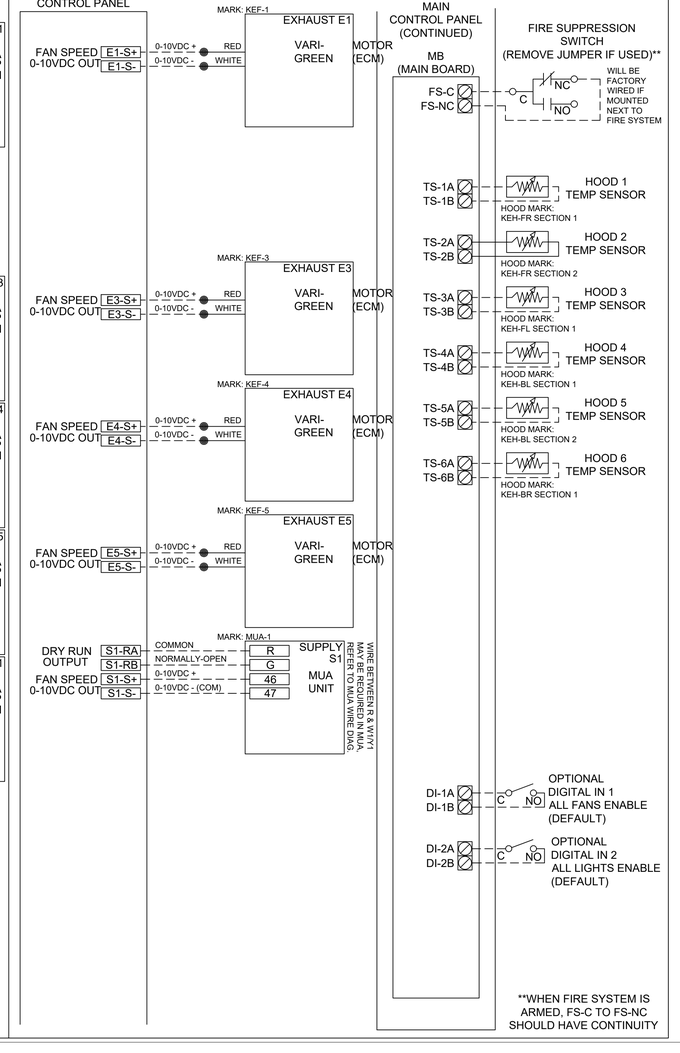
POWER WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN)



POWER WIRING FROM BREAKER PANEL DIRECT TO FANS
(WIRING TO BE DONE BY ELECTRICIAN)



CONTROL WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN, IF NO CONTROLS CONTRACTOR. USE 18-22GA WIRE UNLESS SPECIFIED.)



**WHEN FIRE SYSTEM IS ARMED, FS-C TO FS-NC SHOULD HAVE CONTINUITY

*FIRE SYSTEM DRY CONTACT WIRING EXAMPLES

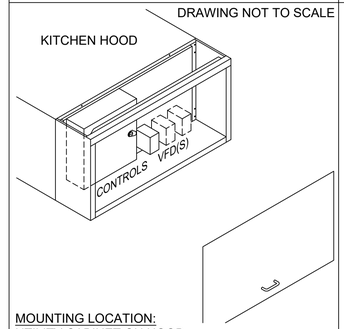
SHUNT TRIP (BY OTHERS) WIRING EXAMPLE:
C1 COMMON — HOT
NO1 NORMALLY OPEN — NEUTRAL
SHUNT TRIP BREAKER COIL

APPLIANCE CONTACTORS (BY OTHERS) WIRING EXAMPLE:
C1 COMMON — HOT
NC1 NORMALLY CLOSED — NEUTRAL
APPLIANCE CONTACTOR COIL

DO NOT USE CONTACTS FOR PROVIDING SIGNALS TO BUILDING FIRE ALARM. DRY CONTACTS SWITCH STATE DURING POWER LOSS TO PANEL.

CABINET DETAILS

DRAWING NOT TO SCALE



MOUNTING LOCATION:
UTILITY CABINET ON HOOD

(INNER CONTROL BOX: 18 X 20 X 6)

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.
2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

MAIN USER INTERFACE DETAILS

MOUNTING TYPE
FACTORY MOUNTED:
UTILITY CABINET - RIGHT END OF HOOD

USER INTERFACE CONTROL
FANS AND LIGHTS

INTERFACE CABLE LENGTH
7FT (FACTORY PROVIDED)

DEFAULT SETTINGS

FACTORY SETTINGS
TYPE: VAV
CONFIGURATION: STANDARD
ZONES: 1
HOODS: 6
EXHAUST FANS: 5
SUPPLY FANS: 1
MB ROOM SENSOR: NO
MB TEMP SENSORS: 6
HIGH TEMP FAULT: NO
FREEZE PROTECTION: YES
MB GAS RESET: NO
FAN PROVING: NO
BMS: NONE

ZONE SETTINGS
SEE ZONE CONFIGURATION TABLE BELOW

HOOD SETTINGS
SEE HOOD CONFIGURATION TABLE BELOW

EXHAUST FAN SETTINGS
SEE FAN CONFIGURATION TABLE BELOW

SUPPLY FAN SETTINGS
SEE FAN CONFIGURATION TABLE BELOW

SENSOR SETTINGS
SEE HOOD CONFIGURATION TABLE BELOW

USER INTERFACE SETTINGS (MB)
FAN & LIGHT BUTTONS: SHOW BOTH (SEPERATE)

GENERAL SETTINGS
TIME ZONE: CENTRAL DAYLIGHT (DEFAULT)

MB FIRE/FAULT SETTINGS
EXHAUST DURING FIRE: MAX
SUPPLY DURING FIRE: OFF
LIGHTS DURING FIRE: OFF

WIRING DIAGRAM CODE: WDC#
JOB NAME: Q39 LEE'S SUMMIT R2
MODEL: XKC-DCV-S-51-6-1-0
SERIAL NUMBER: WDSN#
MARK: KEC-1
DOC NUMBER: ---- REV: ----
PRG VERSION: V5

ZONE CONFIGURATION

ZONE #	ZONE	ROOM TEMP
1	Z1	PRESET

HOOD CONFIGURATION

HOOD #	HOOD	HOOD MARK	ZONE	EXH A	EXH B	SUPPLY		MB-TEMP SENSORS	
1	H1	KEH-FR SECTION 1	Z1	E1	-	S1		TS1	
2	H2	KEH-FR SECTION 2	Z1	E3	-	S1		TS2	
3	H3	KEH-FL SECTION 1	Z1	E2	-	S1		TS3	
4	H4	KEH-BL SECTION 1	Z1	E4	-	S1		TS4	
5	H5	KEH-BL SECTION 2	Z1	E5	-	S1		TS5	
6	H6	KEH-BR SECTION 1	Z1	E2	-	S1		TS6	

FAN CONFIGURATION

FAN #	TYPE	FAN	FAN MARK	ZONE	MIN CFM	MAX CFM	MODBUS VFD	VFD ADDRESS	MIN FREQ.	MAX FREQ.	MIN VDC	MAX VDC
1	EXHAUST	E1	KEF-1	Z1	1017	2033	NO	-	-	-	4.5	9.0
2	EXHAUST	E2	KEF-2	Z1	2267	4534	YES	2	30	60	-	-
3	EXHAUST	E3	KEF-3	Z1	638	1275	NO	-	-	-	4.4	8.7
4	EXHAUST	E4	KEF-4	Z1	1002	2003	NO	-	-	-	4.7	9.5
5	EXHAUST	E5	KEF-5	Z1	1200	2400	NO	-	-	-	5.0	10.0
6	SUPPLY	S1	MUA-1	Z1	4468	8935	NO	-	-	-	5.0	10.0

Q39 LEE'S SUMMIT R2

PROJECT 9/25/2025 | MARK KEC-1

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ACCUREX

RELEASE FOR CONSTRUCTION
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HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-SMOKER DOOR 2	XXEW-70-S	70	39	24	430 SS WHERE EXPOSED	EXTRA HEAVY	1575	12	12		1575	0.695	1260		232	SINGLE

HOOD INFORMATION

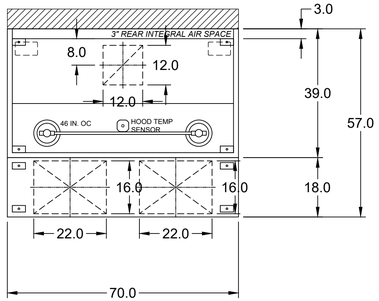
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KEH-SMOKER DOOR 2	ROUND LED	2	70.13	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	3	16	20					
						1	20						

SUPPLY PLENUM INFORMATION

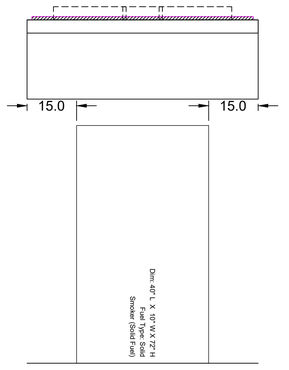
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-SMOKER DOOR 2	FRONT	ASP	70	18	4	NO	YES	NO		1260	0.01	MUA	LOOSE	2	16	22		630	258

HOOD OPTIONS

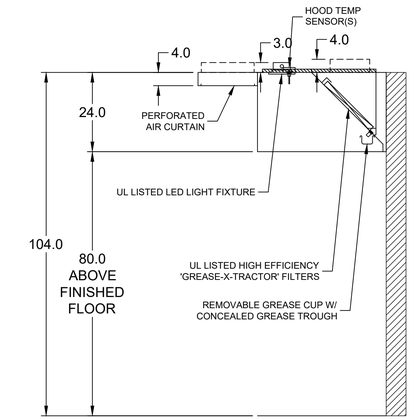
- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- SHIPPED LOOSE EXHAUST COLLAR(S)
- HOOD CONTAINS SOLID FUEL COOKING APPLIANCES
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



MARK: KEH-Smoker Door 2 - SECTION 1
PLAN VIEW



MARK: KEH-Smoker Door 2 - SECTION 1
ELEVATION VIEW



MARK: KEH-Smoker Door 2
SECTION VIEW

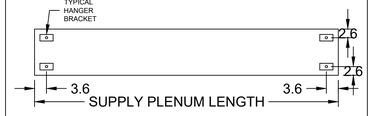
HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

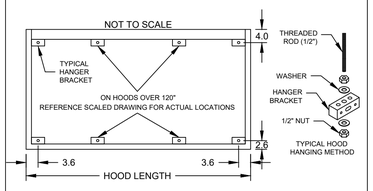
☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

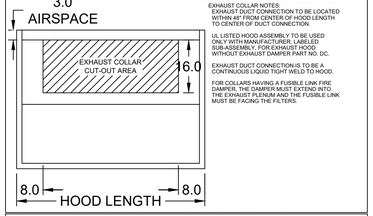
SUPPLY PLENUM HANGER BRACKET DETAIL



HOOD HANGER BRACKET DETAIL



SHIPPED LOOSE DUCT COLLAR INST. DETAIL



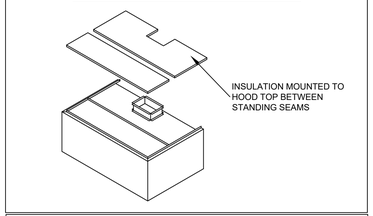
EXHAUST COLLAR NOTES:
EXHAUST DUCT CONNECTION TO BE LOCATED WITHIN 48" FROM CENTER OF HOOD LENGTH TO CENTER OF DUCT CONNECTION.

UL LISTED HOOD ASSEMBLY TO BE USED ONLY WITH MANUFACTURER, LABELED SUB-ASSEMBLY, FOR EXHAUST HOOD WITHOUT EXHAUST DAMPER PART NO. DC.

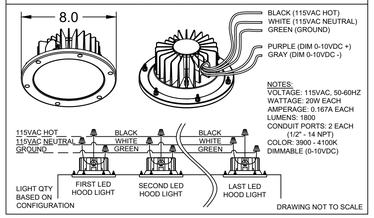
EXHAUST DUCT CONNECTION IS TO BE A CONTINUOUS LIQUID TIGHT WELD TO HOOD.

FOR COLLARS HAVING A FUSIBLE LINK FIRE DAMPER, THE DAMPER MUST EXTEND INTO THE EXHAUST PLENUM AND THE FUSIBLE LINK MUST BE FACING THE FILTERS.

ZERO CLEARANCE TO HOOD TOP



ROUND LED LIGHT DETAIL



HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-SMOKER DOOR 1	XXEW-70-S	70	39	24	430 SS WHERE EXPOSED	EXTRA HEAVY	1575	12	12		1575	0.695	1260		232	SINGLE

HOOD INFORMATION

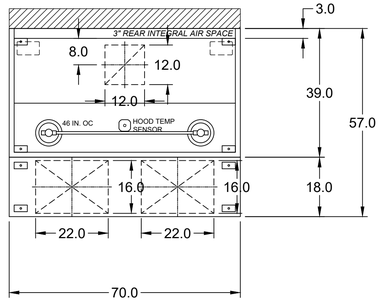
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KEH-SMOKER DOOR 1	ROUND LED	2	70.13	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	3	16	20					
						1	20						

SUPPLY PLENUM INFORMATION

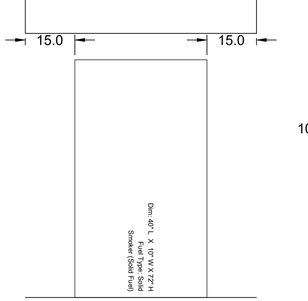
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-SMOKER DOOR 1	FRONT	ASP	70	18	4	NO	YES	NO		1260	0.01	MUA	LOOSE	2	16	22		630	258

HOOD OPTIONS

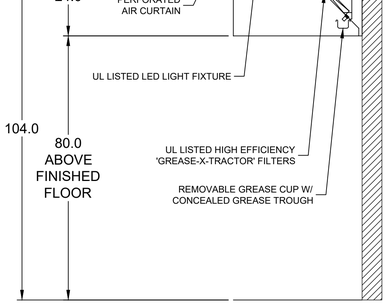
- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- SHIPPED LOOSE EXHAUST COLLAR(S)
- HOOD CONTAINS SOLID FUEL COOKING APPLIANCES
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



MARK: KEH-Smoker Door 1 - SECTION 1
PLAN VIEW



MARK: KEH-Smoker Door 1 - SECTION 1
ELEVATION VIEW



MARK: KEH-Smoker Door 1
SECTION VIEW

Q39 LEE'S SUMMIT R2

KEH-SMOKER DOOR 1 & KEH-SMOKER DOOR 2

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:01

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-SMOKER DOOR 4	XXEW-70-S	70	39	24	430 SS WHERE EXPOSED	EXTRA HEAVY	1575	12	12		1575	0.695	1220		232	SINGLE

HOOD INFORMATION

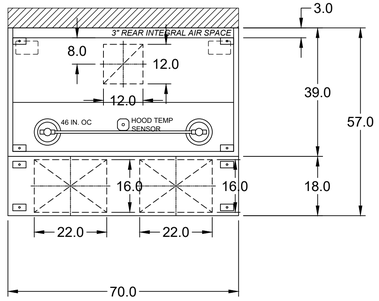
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KEH-SMOKER DOOR 4	ROUND LED	2	70.13	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	3	16	20					
						1	20						

SUPPLY PLENUM INFORMATION

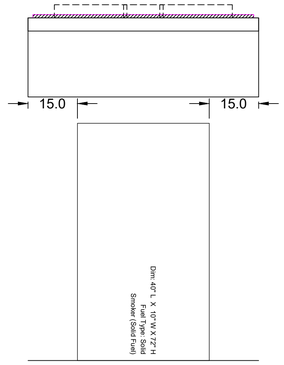
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-SMOKER DOOR 4	FRONT	ASP	70	18	4	NO	YES	NO		1220	0.01	MUA	LOOSE	2	16	22		610	250

HOOD OPTIONS

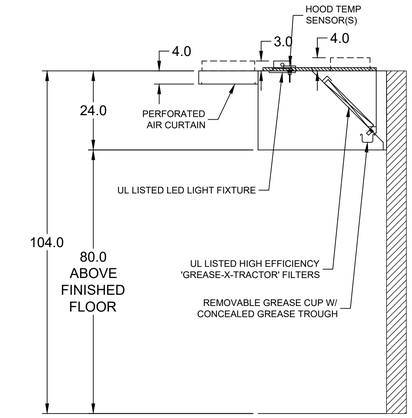
- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- SHIPPED LOOSE EXHAUST COLLAR(S)
- HOOD CONTAINS SOLID FUEL COOKING APPLIANCES
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



MARK: KEH-Smoker Door 4 - SECTION 1
PLAN VIEW



MARK: KEH-Smoker Door 4 - SECTION 1
ELEVATION VIEW



MARK: KEH-Smoker Door 4
SECTION VIEW

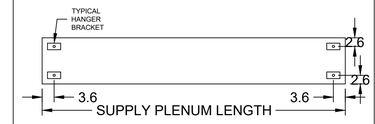
HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

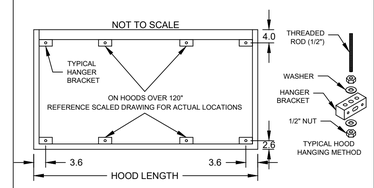
☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

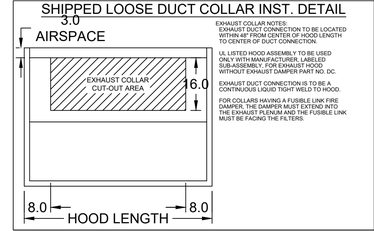
SUPPLY PLENUM HANGER BRACKET DETAIL



HOOD HANGER BRACKET DETAIL



SHIPPED LOOSE DUCT COLLAR INST. DETAIL



EXHAUST COLLAR NOTES:
EXHAUST DUCT CONNECTION TO BE LOCATED WITHIN 48" FROM CENTER OF HOOD LENGTH TO CENTER OF DUCT CONNECTION.

UL LISTED HOOD ASSEMBLY TO BE USED ONLY WITH MANUFACTURER, LABELED SUB-ASSEMBLY, FOR EXHAUST HOOD WITHOUT EXHAUST DAMPER PART NO. DC.

EXHAUST DUCT CONNECTION IS TO BE A CONTINUOUS LIQUID TIGHT WELD TO HOOD.

FOR COLLARS HAVING A FUSIBLE LINK FIRE DAMPER, THE DAMPER MUST EXTEND INTO THE EXHAUST PLENUM AND THE FUSIBLE LINK MUST BE FACING THE FILTERS.

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-SMOKER DOOR 3	XXEW-70-S	70	39	24	430 SS WHERE EXPOSED	EXTRA HEAVY	1575			12	1575	0.879	1260		232	SINGLE

HOOD INFORMATION

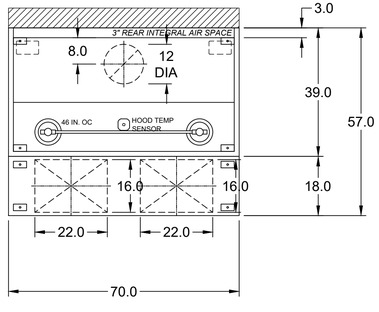
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KEH-SMOKER DOOR 3	ROUND LED	2	70.13	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	3	16	20					
						1	20						

SUPPLY PLENUM INFORMATION

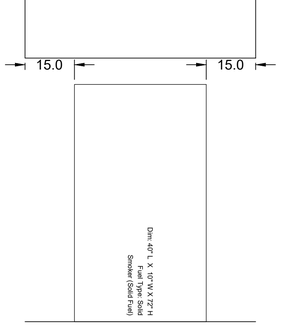
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-SMOKER DOOR 3	FRONT	ASP	70	18	4	NO	YES	NO		1260	0.01	MUA	LOOSE	2	16	22		630	258

HOOD OPTIONS

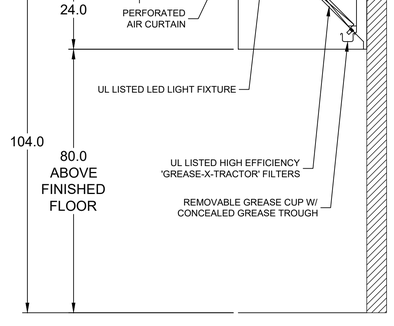
- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- SHIPPED LOOSE EXHAUST COLLAR(S)
- HOOD CONTAINS SOLID FUEL COOKING APPLIANCES
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



MARK: KEH-Smoker Door 3 - SECTION 1
PLAN VIEW

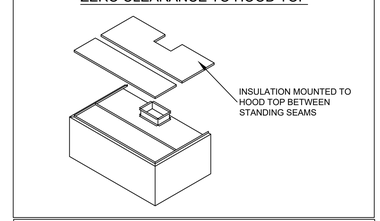


MARK: KEH-Smoker Door 3 - SECTION 1
ELEVATION VIEW

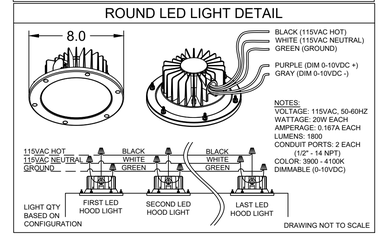


MARK: KEH-Smoker Door 3
SECTION VIEW

ZERO CLEARANCE TO HOOD TOP



ROUND LED LIGHT DETAIL



PROJECT 9/25/2025

MARK

Q39 LEE'S SUMMIT R2

KEH-SMOKER DOOR 3 & KEH-SMOKER DOOR 4

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:01

Direct Drive Upblast Centrifugal Roof Exhaust Fan

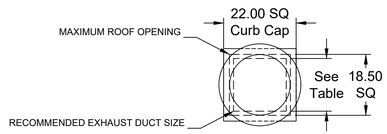
MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION								
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*
KEF-6	1	XCUE-130-VG	Direct	1,575	1.379	1.321	1,725	1,204.46	0	78.6	65.71	14.76	0	0	0	0.57	0.75	0	OP	277	60	1	VariGreen	5.7

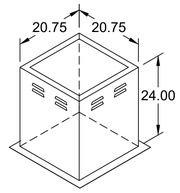
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

KEF-Smoker Door 1 : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 22 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Aluminum Wheel Material

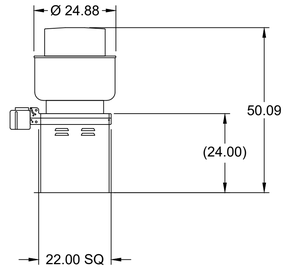
DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

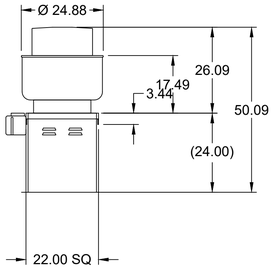
OVERALL HEIGHT MAY BE GREATER DEPENDING ON
MOTOR, ADAPTER, AND/OR HINGE BASE.





DUCT TYPE	SIZE
STANDARD	16 SQ
FIRE-WRAPPED	8 SQ





Direct Drive Upblast Centrifugal Roof Exhaust Fan

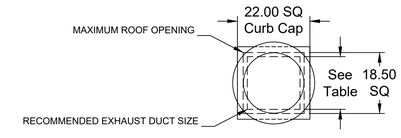
MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION								
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*
KEF-7	1	XCUE-130-VG	Direct	1,575	1.379	1.321	1,725	1,204.46	0	78.6	65.71	14.76	0	0	0	0.57	0.75	0	OP	277	60	1	VariGreen	5.7

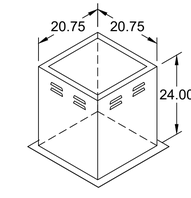
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

KEF-Smoker Door 2 : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 22 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Aluminum Wheel Material

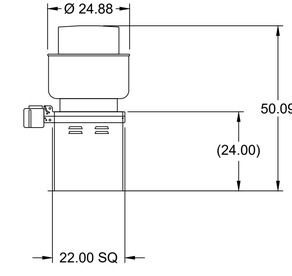
DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

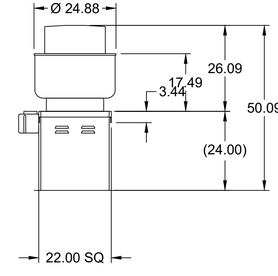
OVERALL HEIGHT MAY BE GREATER DEPENDING ON
MOTOR, ADAPTER, AND/OR HINGE BASE.





DUCT TYPE	SIZE
STANDARD	16 SQ
FIRE-WRAPPED	8 SQ





Q39 LEE'S SUMMIT R2

KEF-6 & KEF-7

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
BENJAMIN.OBRIEN@ACCUREX.COM
(417)920-5245

ACCUREX

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:02

Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION								
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*
KEF-9	1	XCUE-130-VG	Direct	1,575	1.379	1.321	1,725	1,204.46	0	78.6	65.71	14.76	0	0	0	0.57	0.75	0	OP	277	60	1	VariGreen	5.7

*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

KEF-Smoker Door 4 : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 22 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Aluminum Wheel Material

DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON
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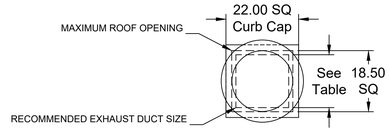

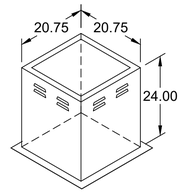

DUCT TYPE	SIZE
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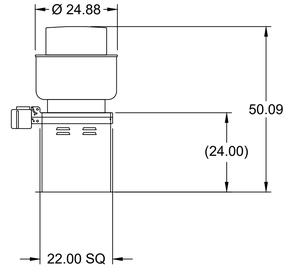

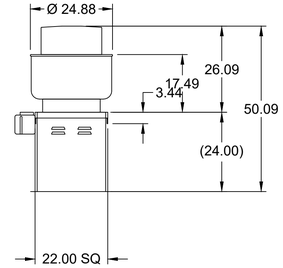

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KEF-Smoker Door 3 : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 22 Square
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High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
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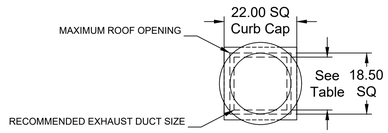

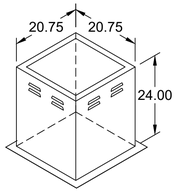

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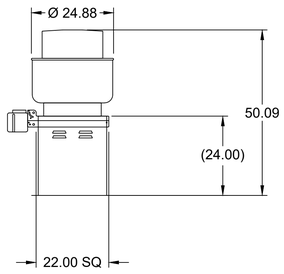

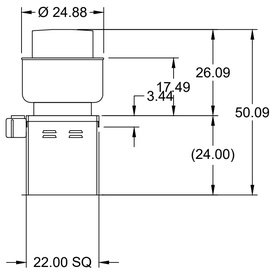

Q39 LEE'S SUMMIT R2

KEF-9 & KEF-8

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
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ACCUREX

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:02

EQUIPMENT SCHEDULE

Tempered Make-Up Air Unit

Mark: KSF-2(Smokers)

Qty	Accurex Model	Volume	External SP	Total SP	MCA	MOP	Weight	SCCR
1	XDGX-P118-H12-D1-8	5,000 CFM	0.5 in. wg	2.354	23.8	35	1,409 lb	NA

Motor Information

Size	V/C/P	Enclosure	Motor with Shaft Gounding	Motor RPM	Operating Power
5 hp	460/60/3	OP	No	1800	3.36 hp

Heating

Type	Gas Type	Temperature			Energy			Connection Gas (IN)	Building Gas Pressure	Control Access	Gas Pressure	
		Winter DB	Max Δ	Max LAT	Input	Output	Efficiency				Min	Max
Direct Gas	Natural	3 F	68.1 F	70.7 F	400.0 MBH	368.0 MBH	92%	3/4"	1/2 PSI	No	12 PSI	5 PSI

Cooling

Cooling Type	Coil Model	Rows Deep	Fins Per Inch	Face Velocity	Total Energy	Sensible Energy	Entering Air (F)		Leaving Air (F)	
							Dry	Wet	Dry	Wet
0	DX38S02Q10-32x35-RH	2	10	NA	108.7 MBH	103.9 MBH	97 F	80 F		

Coil SP	Refrigerant	Suction Temp	Liquid Temp	Super Heat		Suction Conn Qty / Size	Liquid Conn Qty / Size
NA	R_454b	56 F			Code 18/19 0	NA	NA

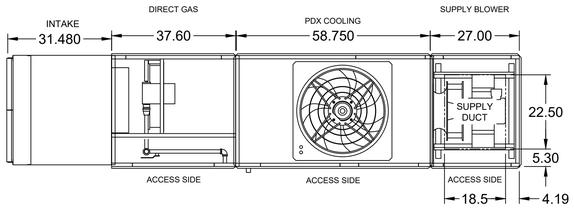
Outlet Sound Power By Octave Band

62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*

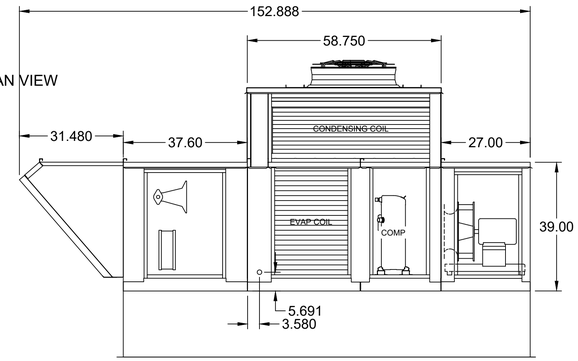
- *LwA - A weighted sound power level based on ANSI S1.4*
- *dBA - A weighted sound pressure level base on 11.f dB attenuation per octabe band at 5.0 ft.*
- *Noise Criteria (NC) based on an average attenuation of 11.5 dB per octabe band at 5.0 ft.*

OPTIONS AND ACCESSORIES

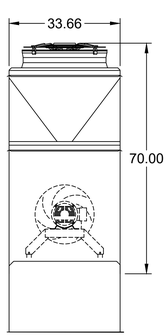
Make Up Air
Hot Gas Bypass
Air Flow Arrangement: Variable Volume
Weatherhood: Aluminum Mesh, 16x20x2 - (4)
Damper: Inlet
Outdoor Air Intake Position: End
Return Air Intake Position: None
Discharge Position: Bottom
Coating: Galvanized
Cooling Coil Coating - None
Insulation: Double Wall - Tempering On
Supply Fan Control: VFD
VFD Control: 0-10 VDC By Others
Hinged Access
Access Side: Right-Hand
Unit Weight: 1,409 lb
Control Center
Freeze Protection
Heat Inlet Air Sensor
Cool Inlet Air Sensor
Unit Controls: Microprocessor



PLAN VIEW



ELEVATION VIEW



END VIEW

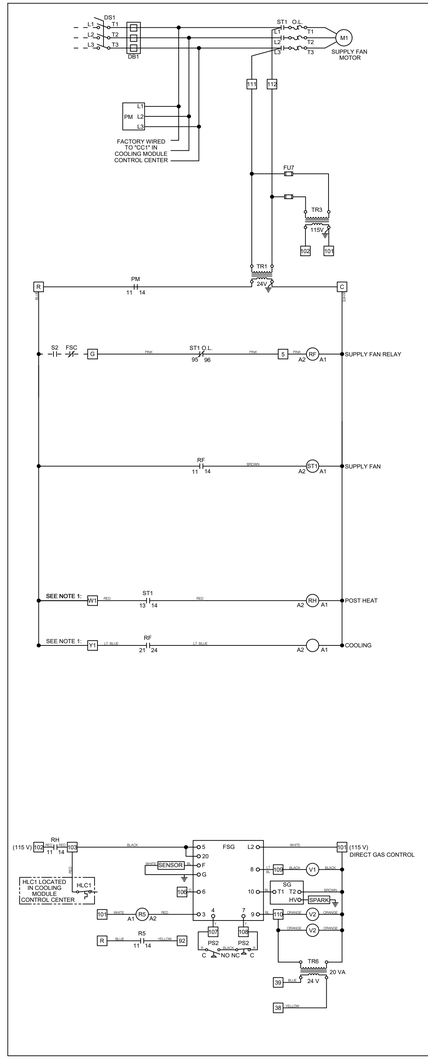
NOTE: Roof Opening Requirements:

Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb.
This is by design, in order to help alleviate water infiltration issues.

FOOTPRINT



ACCUREX

Wiring Diagram Code:

CAUTION

UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

NOTES

USE COPPER CONDUCTORS ONLY
60° C FOR TERMINALS RATED LESS THAN 100 AMPS.
75° C FOR TERMINALS RATED 100 AMPS OR MORE.

FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM.

FIELD WIRED — — — —
FACTORY SUPPLIED AND WIRED ————

NOTE: #1
FOR EXTERNAL HEAT ENABLE/DISABLE REMOVE JUMPER AND INSTALL EXTERNAL CONTACT. EXTERNAL CONTACT.

WIRE COLOR CODE

BK	BLACK	BL	BLUE	BR	BROWN	GY	GRAY		
LT BL	LIGHT BLUE	O	ORANGE	PK	PINK	PR	PURPLE		
R	RED	W	WHITE	Y	YELLOW				

LEGEND

AMP	AMPLIFIER
CO2	CARBON DIOXIDE SENSOR
D3	OUTDOOR DAMPER
D4	RECIRCULATING DAMPER
DS1	MAIN DISCONNECT SWITCH
FSC	FIRE SYSTEM CONTACT
FSG	FLAME SAFE GUARD
HLC	HIGH LIMIT CONTROL
M#	MOTOR
MOD	MODULATING VALVE
OL#	MOTOR OVERLOAD
FALSE	
PS2	AIR PROVING SWITCH
RS	ALARM RELAY
R8	POC LATCHING RELAY
RC	COOL RELAY
RD	DAMPER RELAY
RF	SUPPLY FAN RELAY
RH	HEAT RELAY
S2	FAN SWITCH
S4	HEAT AND COOL SWITCH
SG	SPARK GENERATOR
ST#	MOTOR STARTER
TR#	TRANSFORMER
TS2	DISCHARGE AIR SENSOR
V1	PILOT VALVE
V2	MAIN VALVE

Wiring Template: M28 DOC NUMBER: ---- REV: ----

Q39 LEE'S SUMMIT R2

MUA-2

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
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LEE'S SUMMIT, MISSOURI
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CONTROL INFORMATION

MARK	MAIN ELECTRICAL CONTROL PACKAGE		MAIN USER INTERFACE	
	MODEL	LOCATION	TYPE	LOCATION
KEC-2 (SMOKERS)	XKC-DCV-S-41-4-1-0	SHIP LOOSE ENCLOSURE	FULL COLOR TOUCHSCREEN	SHIP LOOSE

CONTROL FEATURES

- HOOD LIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY. 4
- DRY FIRE CONTACTS - QTY. 2
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE

FANS CONTROLLED

FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
1	EXHAUST	E1	KEF-6	1	1542	0.75	277	60	1	NO	NO
2	EXHAUST	E2	KEF-7	1	1542	0.75	277	60	1	NO	NO
3	EXHAUST	E3	KEF-8	1	1542	0.75	277	60	1	NO	NO
4	EXHAUST	E4	KEF-9	1	1542	0.75	277	60	1	NO	NO
5	SUPPLY	S1	MUA-2	1	5000	5	460	60	3	NO	NO

ACCUREX

DOC NUMBER: ---- REV: ----

CAUTION
UNIT MUST BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

ATTENTION
L'APPAREIL DOIT ÊTRE MIS À LA TERRE CONFORMÉMENT AU CODE C.E. L'ALIMENTATION DOIT ÊTRE COUPÉE DURANT L'ENTRETIEN.

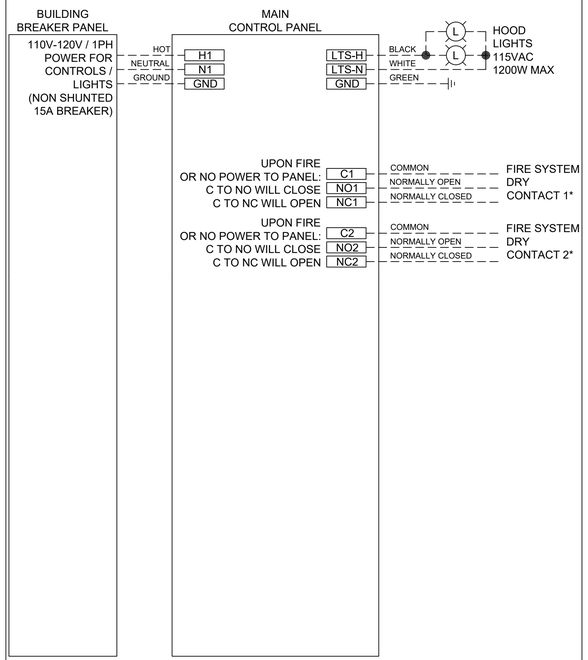
c UL us LISTED 43BM
COMMERCIAL APPLIANCE OUTLET CENTER
ELECTRICAL RATINGS: 110-240V,1PHASE, 50-60HZ,15A
BASE FILE #E200616, ML FILE #E313951

THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE POWER LUGS/SCREWS TO COMPONENT RATINGS LISTED. TORQUE CONTROL BOARD SCREW TERMINALS TO 3.5 LBS. IN. FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL FACTORY AT 1-800-371-6858.
PRG VERSION: V5
FIELD WIRED (CÂBLÉ LOCALEMENT) — — — —
FACTORY WIRED (CÂBLÉ À L'USINE) ———

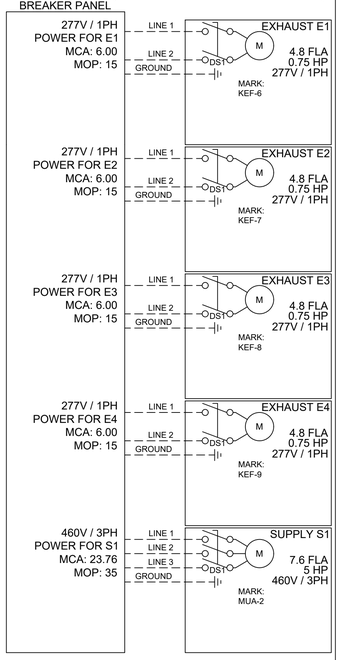
NE PAS RETIRER CES DESSINS DE CET EQUIPEMENT. SAUF INDICATION CONTRAIRE, UTILISER DES CONDUCTEURS EN CUIVRE CLASSÉS 90 °C. SERRER LES BORNES DE COMMANDE ET DE MISE À LA TERRE À 8 LB-PO. SERRER LES COSSES/VIS D'ALIMENTATION AUX COUPLES INDIQUÉS POUR LE COMPOSANT. SERRER LES BORNES À VIS DE LA CARTE DE COMMANDE À 3,5 LB-PO. LA RÉSISTANCE DU CÂBLAGE DE COMMANDE LOCAL NE DOIT PAS DÉPASSER 0,75 OHM. POUR PLUS D'INFORMATION, CONSULTER LE MANUEL OU APPELER 1-800-371-6858

WIRING DIAGRAM CODE: WDC#
JOB NAME: Q39 LEE'S SUMMIT R2
MODEL: XKC-DCV-S-41-4-1-0
SERIAL NUMBER: WDSN#
MARK: KEC-2 (SMOKERS)

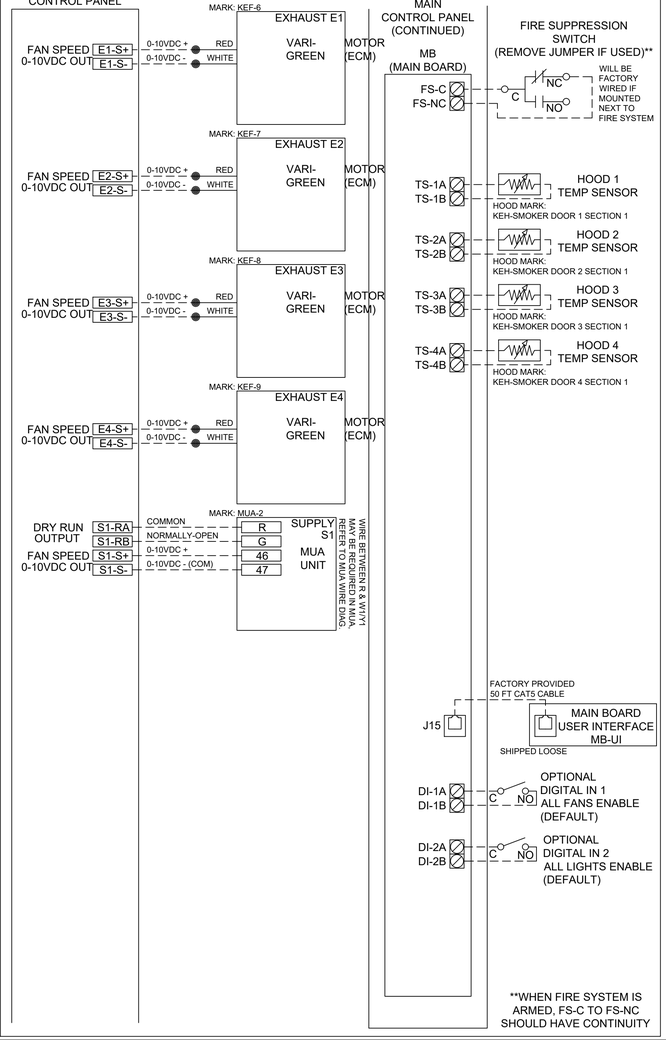
POWER WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN)



POWER WIRING FROM BREAKER PANEL DIRECT TO FANS
(WIRING TO BE DONE BY ELECTRICIAN)

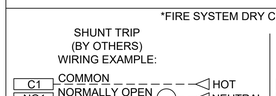


CONTROL WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN, IF NO CONTROLS CONTRACTOR. USE 18-22GA WIRE UNLESS SPECIFIED.)

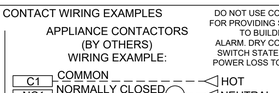


*FIRE SYSTEM DRY CONTACT WIRING EXAMPLES

SHUNT TRIP (BY OTHERS) WIRING EXAMPLE:



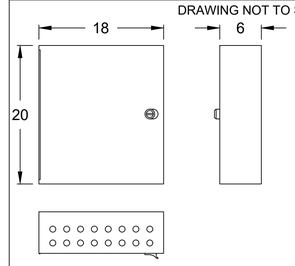
APPLIANCE CONTACTORS (BY OTHERS) WIRING EXAMPLE:



DO NOT USE CONTACTS FOR PROVIDING SIGNALS TO BUILDING FIRE ALARM. DRY CONTACTS SWITCH STATE DURING POWER LOSS TO PANEL.

CABINET DETAILS

DRAWING NOT TO SCALE



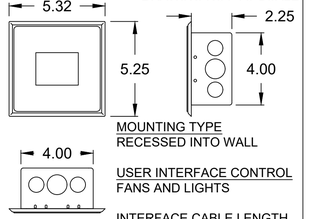
MOUNTING LOCATION:
SHIP LOOSE ENCLOSURE

TOTAL WEIGHT: 35 LBS

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.
2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

MAIN USER INTERFACE DETAILS

DRAWING NOT TO SCALE



MOUNTING TYPE
RECESSED INTO WALL

USER INTERFACE CONTROL
FANS AND LIGHTS

INTERFACE CABLE LENGTH
50FT (FACTORY PROVIDED)

DEFAULT SETTINGS

FACTORY SETTINGS
TYPE: VAV
CONFIGURATION: STANDARD
ZONES: 1
HOODS: 4
EXHAUST FANS: 4
SUPPLY FANS: 1
MB ROOM SENSOR: NO
MB TEMP SENSORS: 4
HIGH TEMP FAULT: NO
FREEZE PROTECTION: YES
MB GAS RESET: NO
FAN PROVING: NO
BMS: NONE

ZONE SETTINGS
SEE ZONE CONFIGURATION TABLE BELOW

HOOD SETTINGS
SEE HOOD CONFIGURATION TABLE BELOW

EXHAUST FAN SETTINGS
SEE FAN CONFIGURATION TABLE BELOW

SUPPLY FAN SETTINGS
SEE FAN CONFIGURATION TABLE BELOW

SENSOR SETTINGS
SEE HOOD CONFIGURATION TABLE BELOW

USER INTERFACE SETTINGS (MB)
FAN & LIGHT BUTTONS: SHOW BOTH (SEPERATE)

GENERAL SETTINGS
TIME ZONE: CENTRAL DAYLIGHT (DEFAULT)

MB FIRE/FAULT SETTINGS
EXHAUST DURING FIRE: MAX
SUPPLY DURING FIRE: OFF
LIGHTS DURING FIRE: OFF

WIRING DIAGRAM CODE: WDC#
JOB NAME: Q39 LEE'S SUMMIT R2
MODEL: XKC-DCV-S-41-4-1-0
SERIAL NUMBER: WDSN#
MARK: KEC-2 (SMOKERS)
DOC NUMBER: ---- REV: ----
PRG VERSION: V5

ZONE CONFIGURATION

ZONE #	ZONE	ROOM TEMP
1	Z1	PRESET

HOOD CONFIGURATION

HOOD #	HOOD	HOOD MARK	ZONE	EXH A	EXH B	SUPPLY		MB-TEMP SENSORS	
1	H1	KEH-SMOKER DOOR 1 SECTION 1	Z1	E1	-	S1		TS1	
2	H2	KEH-SMOKER DOOR 2 SECTION 1	Z1	E2	-	S1		TS2	
3	H3	KEH-SMOKER DOOR 3 SECTION 1	Z1	E3	-	S1		TS3	
4	H4	KEH-SMOKER DOOR 4 SECTION 1	Z1	E4	-	S1		TS4	

FAN CONFIGURATION

FAN #	TYPE	FAN	FAN MARK	ZONE	MIN CFM	MAX CFM	MODBUS VFD	VFD ADDRESS	MIN FREQ.	MAX FREQ.	MIN VDC	MAX VDC
1	EXHAUST	E1	KEF-6	Z1	771	1542	NO	-	-	-	5.0	10.0
2	EXHAUST	E2	KEF-7	Z1	771	1542	NO	-	-	-	5.0	10.0
3	EXHAUST	E3	KEF-8	Z1	771	1542	NO	-	-	-	5.0	10.0
4	EXHAUST	E4	KEF-9	Z1	771	1542	NO	-	-	-	5.0	10.0
5	SUPPLY	S1	MUA-2	Z1	2500	5000	NO	-	-	-	5.0	10.0

Q39 LEE'S SUMMIT R2

KEC-2 (SMOKERS)

PROJECT 9/25/2025

MARK

ACCUREX KS NE WESTERN MO
BENJAMIN OBRIEN
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(417)920-5245

ACCUREX

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/16/2025 3:11:02

HOOD INFORMATION

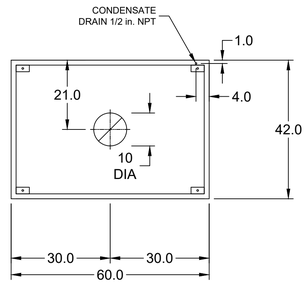
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-DISH	XD1-60-S	60.00	42	24	430 SS 100%		750.0			10	750	0.227			104	SINGLE

HOOD INFORMATION

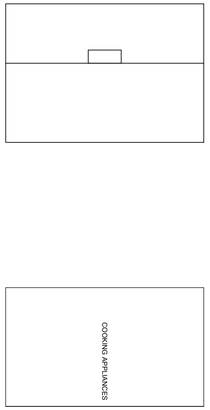
HOOD NO.	MARK	LIGHTING DETAILS			BAFFLE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	SIZE (IN.) H	LOCATION	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	CONTROLS MODEL	CONTROLS INTERFACE
1	KEH-DISH												

HOOD OPTIONS

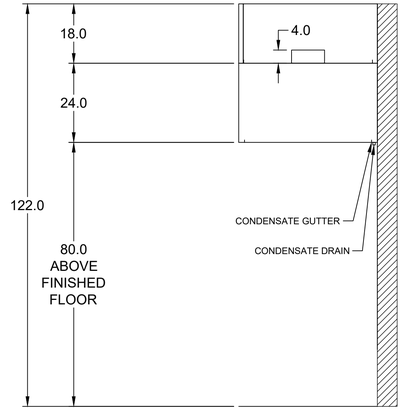
18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)
PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



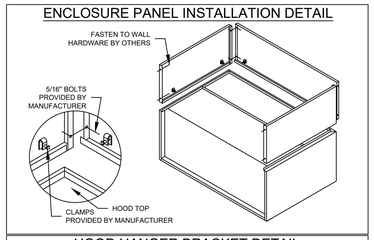
MARK: KEH-Dish - SECTION 1
PLAN VIEW

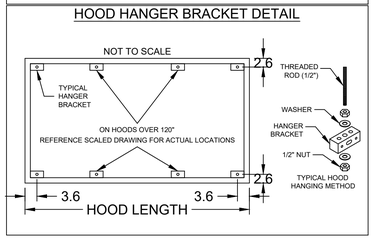


MARK: KEH-Dish - SECTION 1
ELEVATION VIEW



MARK: KEH-Dish
SECTION VIEW



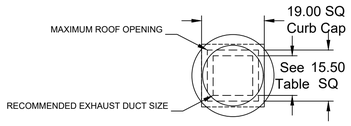


Direct Drive Upblast Centrifugal Roof Exhaust Fan

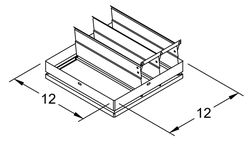
MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION							
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*
KEF-10	1	XCUE-099-VG	Direct	750	1.054	1.007	1,725	572.86	0	45.2	60.98	10.76	0	0	0	0.23	0.25	0	TN	277	60	1	VariGreen	2.4

*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

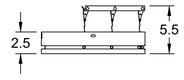
KEF-Dish : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 19 Square
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle,
Foam Curb Seal (Factory Applied)
Damper Shipped Loose, BD-100-PB-12X12, Gravity Operated, Not Coated, Nominal Size
Birdscreen: Stainless Steel, nom. 86% Free Area
Aluminum Wheel Material
Conduit Chase Qty 1



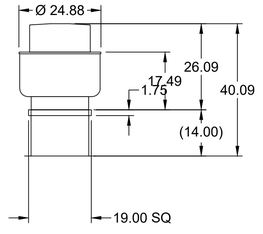
DUCT TYPE	SIZE
STANDARD	12 SQ
FIRE-WRAPPED	8 SQ



DAMPER

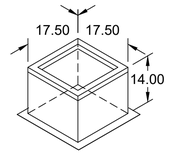


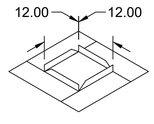
TYP. SECTION VIEW



DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON
MOTOR, ADAPTER, AND/OR HINGE BASE.





Q39 LEE'S SUMMIT R2

KEH-DISH & KEF-10

PROJECT 9/25/2025

MARK

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