

tacos+amigos+tequila

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PROJECT NOTES:		
1. INCLUDED AS PART OF THESE DOCUMENTS IS THE "GENERAL CONDITIONS FOR CONSTRUCTION", AIA DOCUMENT A-201, ARTICLE THRU 14 INCLUSIVE.		T1.0 TIT
2. THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF THE ARCHITECTURAL DESIGN CONCEPT, DIMENSIONS, MAJOR ELEMENTS AND MATERIALS, THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL COMPLETION OF THE PROJECT.		C2.00 CIV C3.00 CIV L.1 LANI L.2 LANI
3. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTOR SHALL FURNISH ALL OF THOSE ITEMS AND LABOR REQUIRED FOR THE FULL COMPLETION OF THIS PROJECT IN A FIRST CLASS WORKMANSHIP LIKE MANNER.		L.3 LANI G0.1 GEI G0.2 SPE
4. THE ELECTRICAL CONTRACTOR SHALL INSTALL SMOKE AND CARBON MONOXIDE DETECTORS AS SHOWN ON THE PROJECT DRAWINGS AND AS REQUIRED BY THE LOCAL CODES.		A0.0 AB A0.1 SIT A0.2 DE
5. INTERIOR FINISHES SHALL NOT EXCEED CLASS A, 0-25 FLAME SPREAD, 200 SMOKE.		A0.3 DE A1.1 CC
6. THE SUBCONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDITIONS BEFORE EXECUTION OF ANY WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING.		A1.2 AC A1.3 FL0 A1.4 DE A2.1 RE
7. THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE ADHERENCE TO COMPLY WITH ALL APPLICABLE CITY, STATE AND NATIONAL CODES AND ORDINANCES.		A2.2 DIN A2.3 LIG A3.1 RC A3.2 RC
8. THE SUBCONTRACTORS SHALL VERIFY ALL PARTITION LAYOUTS AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY FRAMING.		A4.1 EX A6.1 BU A8.1 EN A8.2 RE
9. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL INCOMING UTILITIES.		A8.3 EM A9.1 ST A9.2 FIN
10. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. THESE DRAWINGS MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN. DO NOT SCALE DRAWINGS.		A9.3 RO A10.1 INT A10.2 INT A11.1 WA
11. GENERAL CONTRACTORS AND SUBCONTRACORS SHALL COMPLY WITH ALL CITY, STATE AND NATIONAL CODES AND ORDINANCES. PERFORM ALL WORK IN A FIRST CLASS WORKMANSHIP LIKE MANNER AND IN NO WAY DAMAGE OR WEAKEN THE STRUCTURAL STRENGTH OF THE BUILDING. REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT. (OSHA) LATEST ADDITION. MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD, A CERTIFICATE OF INSURANCE FOR ALL LIABILITIES, WITH A HOLD HARMLESS CLAUSE, PROTECTING THE OWNER AND ARCHITECT.		A11.2 EN A11.3 EN A11.3 MII A12.1 FL0
12. THE GENERAL CONTRACTOR'S SUBCONTRACTORS SHALL COMPLETELY HOOKUP AND CONNECT ALL EQUIPMENT AND FURNISH ALL NECESSARY APPENDAGES.		
13. ALL WINDOW GLASS, MIRRORS, FLOORS AND WALL TILE SHALL BE CLEANED AND WASHED UPON COMPLETION OF THE PROJECT BY THE GENERAL CONTRACTOR.		
14. THE PREMISES SHALL BE KEPT IN A BROOM SWEPT FINISH CONDITION DURING ALL PHASES OF THE CONSTRUCTION. ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR CLEANING UP AND DISPOSING OF THEIR LITTER AND LEFT OVER MATERIAL ON A REGULAR BASIS AND LEAVE THE PROJECT IN A BROOM FINISH CONDITION UPON COMPLETION OF THEIR PORTION OF THIS PROJECT.		
15. THE ENTIRE INSTALLATION SHALL BE PERFORMED WITH A FIRST CALL WORKMANSHIP LIKE MANNER THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL. ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT.		
16. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCE , PRESERVE MAXIMUM HEAD ROOM AND AVOID OMISSIONS.		
17. THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND BARRICADES AROUND THE ENTIRE CONSTRUCTION SITE AS REQUIRED BY THE CITY OF OMAHA TO BE PROTECTED AND AT ANY OPENINGS THAT MIGHT PRESENT A HAZARD.		
18. ALL DOORS USED IN CONNECTION WITH EXITS SHALL BE SO ARRANGED AS TO BE READILY OPENED WITHOUT USE OF A KEY FROM THE SIDE FROM WHICH EGRESS IS MADE.		0
19. ALL GLAZED DOORS, ALL SKYLIGHTS AND ALL GALZED PANELS MORE THAN 18" IN WIDTH IMMEDIATELY ADJACENT TO ANY DOOR WHERE STHE SILL OF THE GLAZED PANEL IS LESS THAN 24" ABOVE THE FOOR SHALL BE GLAZED WITH SAFETY GLAZING MATERIAL		S

20. ALL SUB-CONTRACTORS SHALL PROVIDE FIRE-STOPPING EQUAL IN RATING TO THE FLOOR/CELING AND WALL ASSEMBLIES THROUGH WHICH PENETRATIONS ARE MADE. THE GENERAL CONTRACTOR SHALL ENSURE FIRE-STOPPING IS INCLUDED IN ALL SUB CONTRACTORS SCOPE OF WORK.

NO WINDOW SILLS SHALL HAVE A SILL HEIGHT OF LESS THAN 2'-0" ABOVE THE FLOOR

UNLESS NOTED OTHERWISE.

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 T1.0 TITLE SHEET - DRAWING INDEX, PROJECT LOCATION C1.00 CIVIL - SITE PLAN C2.00 CIVIL - GRADING PLAN C3.00 CIVIL - DETAIL SHEET L.1 LANDSCAPE PLAN - EXISTING OVERSTORY L.2 LANDSCAPE PLAN - EXISTING UNDERSTORY L.3 LANDSCAPE PLAN - EXISTING UNDERSTORY L.3 LANDSCAPE PLAN - PROPOSED G0.1 GENERAL REQUIREMENTS & NOTES G0.2 SPECIFICATIONS A0.0 ABBREVIATION AND SYMBOLS A0.1 SITE PLAN A0.2 DEMOLITION - FLOOR PLAN A0.3 DEMOLITION - FLOOR PLAN A0.4 COESSIBILITY - DIMENSIONS, ELEVATIONS, & NOTES A1.1 CODE ANALYSIS - OCCUPANCY & EGRESS/EXIT PLAN A1.2 ACCESSIBILITY - DIMENSIONS, ELEVATIONS, & NOTES A1.3 FLOOR PLAN - EXTERIOR DIMENSIONS & NOTES A1.4 DEPRESSED/RAISED SLAB PLAN A2.1 REFLECTED CEILING PLAN A2.2 DIMENSION LIGHTING PLAN A2.3 LIGHT FIXTURE SCHEDULE A3.1 ROOF PLAN AND NOTES A3.2 ROOF DETAILS A4.1 EXTERIOR ELEVATIONS A6.1 BUILDING AND WALL SECTIONS A6.1 BUILDING AND WALL SECTIONS A8.1 ENLARGED RESTROOM PLANS & SCHEDULES A8.2 RESTROOM ELEVATIONS & LEGENDS A8.3 EMPLOYEE TOILET ROOM PLAN AND ELEVATIONS A9.1 STOREFRONT AND DOOR SCHEDULE AND HARDWARE A9.2 FINISH LEGENDS AND SCHEDULES A1.1 INTERIOR ELEVATIONS A1.1 ENCREPONS BUILTY SCHEDULES A1.2 INTERIOR ELEVATIONS 	S1.1 S2.0 S2.1 S3.0 S0.1 S3.0 E0.1 S E0.2 E E0.3 E E0.4 E E0.5 E E0.6 E E1.1 E E2.1 E E3.0 E E3.1 E M1.1 M M1.2 M M2.0 M M2.1 M M2.2 M M3.1 M M3.2 M M4.1 M M4.3 M M4.4 M M4.5 M M4.9 M	STRUCTURAL NOTES AN STRUCTURAL - DETAILS STRUCTURAL - PATIO FR STRUCTURAL - ROOF FR STRUCTURAL - BAR FRA SYMBOLS LIST LIGHTING PANEL SCHEDULES LIGHTING FIXTURE SCHE KITCHEN EQUIPMENT SC ROOF PLAN - POWER AN ELECTRICAL DETAILS FLOOR PLAN - DOWER AN ELECTRICAL DETAILS FLOOR PLAN - POWER A ELECTRICAL SPECIFICA FLOOR PLAN - POWER A ELECTRICAL SPECIFICA MECHANICAL NOTES, SY MECHANICAL NOTES, SY MECHANICAL DEMO FLO MECHANICAL DE	AMING DETAILS AMING PLAN MING DETAILS FIXTURE SCHEDUI EDULES DECHANICAL SCI FRONT OF HOUSE ND SPECIAL SYSTE TIONS MBOLS, & SCHEDUI MBOLS, & SCHEDUI OR PLANS	LE & DETAILS HEDULES MS LES	P1.1 PLUN P2.1 PLUN P3.1 PLUN P4.1 PLUN P4.2 PLUN P5.1 PLUN P5.2 PLUN P6.1 PLUN P6.2 PLUN K-1 FOODS K-2 ELECT K-3 UNDEF K-3A PLUME K-4 SPECIJ K-5 EXHAU

NTERIOR ELEVATIONS

- VALL TYPES & INTERIOR DETAILS NLARGED BAR PLAN & ELEVATIONS
- NLARGED BAR DETAILS
- ILLWORK DETAILS AND HOST STAND PLAN LOOR FINISH PLAN, SCHEDULE AND NOTES

M5.1 MECHANICAL SPECIFICATIONSM5.2 MECHANICAL SPECIFICATIONSM5.3 MECHANICAL SPECIFICATIONS

M4.11 'CAPTIVE AIRE' DRAWINGS

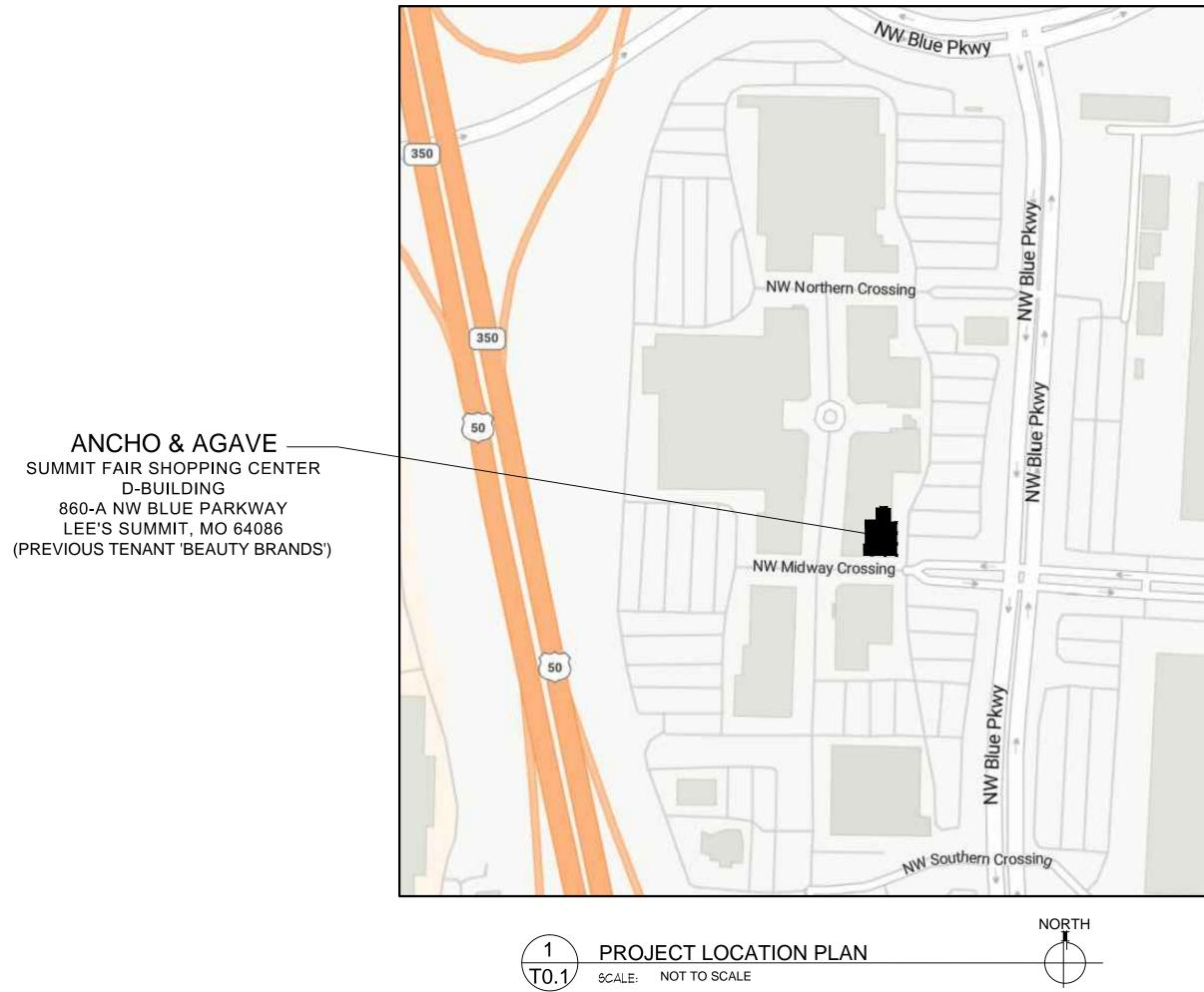
M4.12 'CAPTIVE AIRE' DRAWINGS

M4.13 'CAPTIVE AIRE' DRAWINGS

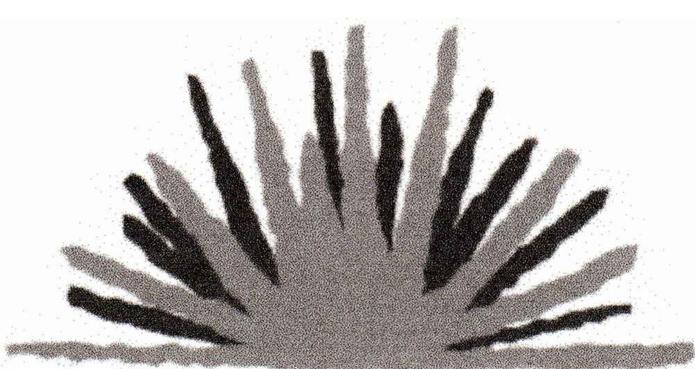
M4.14 'CAPTIVE AIRE' DRAWINGS

M4.15 'CAPTIVE AIRE' DRAWINGS

PROJECT LOCATION/SITE:





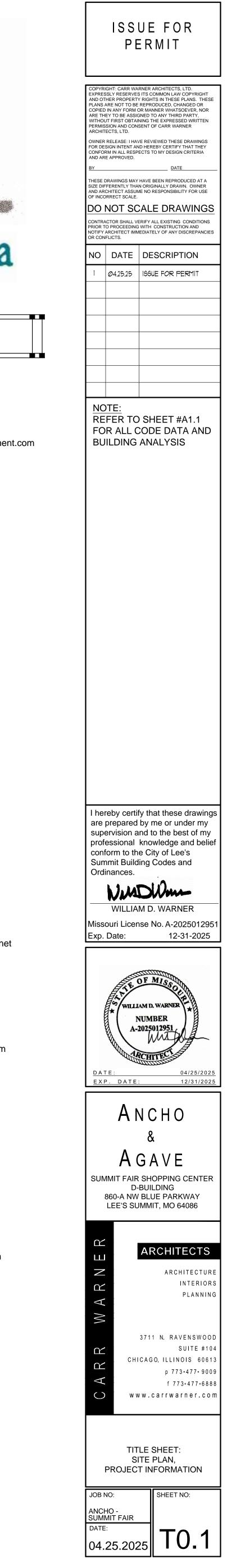


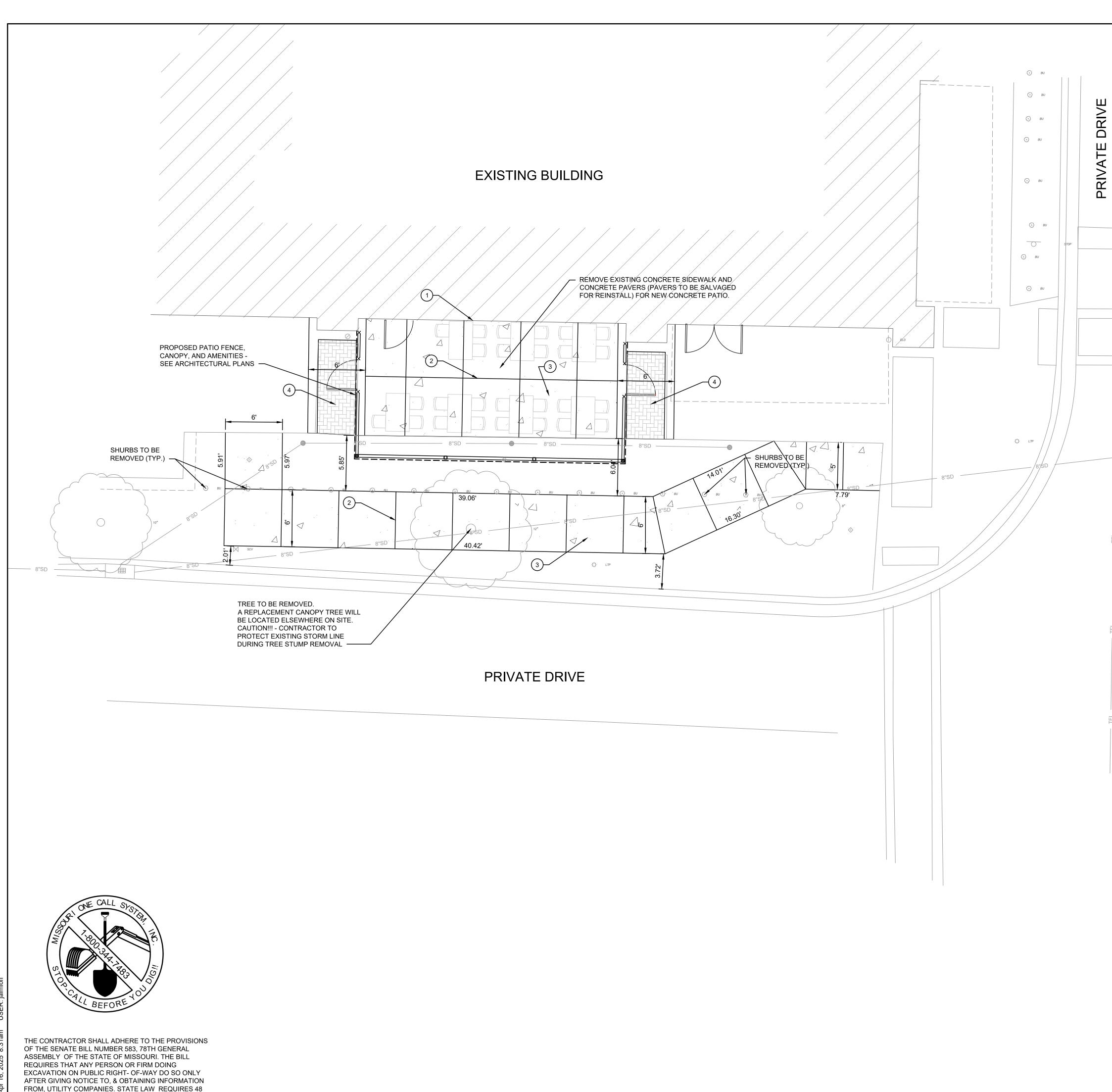
tacos+amigos+tequila

STEVE SCHOOP sschoop@adefoodservice.com

ROB THOMPSON

	PRC	DJECT TEAM:
 PLUMBING NOTES AND SYMBOLS PLUMBING UNDER SLAB PLAN - WASTE PLUMBING FLOOR PLAN - WATER & VENT PLUMBING SCHEDULES PLUMBING ISOMETRICS - WASTE AND VENT PLUMBING ISOMETRICS - WATER PLUMBING DETAILS PLUMBING DETAILS 	OWNER/LANDLORD:	XXX ONE EAST WASHINGTON STREET, #300 PHOENIX, AZ 85004 (480) 556-7732 DUSTIN CLEVELAND DCleveland@reddevelopment.c
 PLUMBING SPECIFICATIONS PLUMBING SPECIFICATIONS FOODSERVICE EQUIPMENT PLAN ELECTRICAL SPOT PLAN UNDERGROUND PLUMBING SPOT PLAN A PLUMBING SPOT PLAN SPECIAL CONDITIONS PLAN EXHAUST HOOD DRAWINGS 	TENANT/APPLICANT:	ALL IN HOSPITALITY 1705 CLEARWATER AVENUE BLOOMINGTON, IL 61704 (309) 664-2148 #211 TODD HOVENDEN todd@biaggis.com
	ARCHITECT:	CARR WARNER ARCHITECTS, LTD. 3711 N. RAVENSWOOD, #104 CHICAGO, IL 60613 (773) 477-9009 RICHARD CARR rick@carrwarner.com WILLIAM WARNER bill@carrwarner.com
	DESIGNER: PROJECT CONTACT	ALL IN HOSPITALITY 1705 CLEARWATER AVENUE BLOOMINGTON, IL 61704 (708) 218-4327 PAM VALENTA pvalenta@biaggis.com
	CIVIL ENGINEER:	OLSSON ENGINEERING 7301 WEST 133rd. STREET, STE #200 OVERLAND PARK, KS 66213 (913) 381-1170 BRAD SONNER bsonner@olsson LUKE MOORE
	STRUCTURAL ENGINEER:	SOUND STRUCTURES, INC. 152 E. MAIN STREET LAKE ZURICH, IL 60047 (847) 749-0923 NATHAN SCHUETTE nathan@soundstructures.net
	ELECTRICAL ENGINEER:	DICKERSON ENGINEERING, INC. 3343 N. RIDGE AVENUE ARLINGTON HEIGHTS, IL 60004 (847) 966-0290 STEPHAN BARNARD steve.barnard@dei-pe.com KALEO PEDRINA
	MP + FP ENGINEER:	WCW ENGINEERS, INC. 760 CREEL DRIVE WOOD DALE, IL 60191 (630) 595-8800 SUNG KWON sung.kwon@wcwengineers.com MATT ZOOK
	KITCHEN CONSULTANT:	ADE RESTAURANT SERVICES, INC. 471 SOUTH IRMEN DRIVE ADDISON, IL 60101 (630) 628-0811 STEVE SCHOOP, sschoop@adefoodservice.com





HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

SITE PLAN NOTES

1. ALL PAVEMENT DIMENSIONS ARE TO BACK OF CURB, OR EDGE OF PAVEMENT WHERE NO CURB IS PRESENT, UNLESS OTHERWISE NOTED. DIMENSIONED TIES BETWEEN PROPERTY LINES AND BUILDING FACES OR PAVEMENT ARE AS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ANY ADJUSTMENTS NECESSARY FOR FOUNDATIONS, BEDDING EXTENSIONS, SURCHARGING, ETC.

2. INSTALLED PAVEMENT SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT TO PROVIDE SMOOTH SURFACE TRANSITIONS. INSTALLED CURB & GUTTER SHALL MATCH EXISTING CURB & GUTTER IN SIZE AND TYPE OR CONTRACTOR SHALL INCLUDE A TRANSITION FROM NEW TO EXISTING OF NO LESS THAN 5' AS MEASURED ALONG BACK OF CURB.

LEGEND

	CONCRETE SIDEWALK
	CONCRETE PAVERS
	PROPOSED PATIO FENCE
G	EXISTING GAS LINE
TEL	EXISTING UNDERGROUND TELECOMM
FO	EXISTING UNDERGROUND FIBER OPTICS
SD	EXISTING STORM SEWER

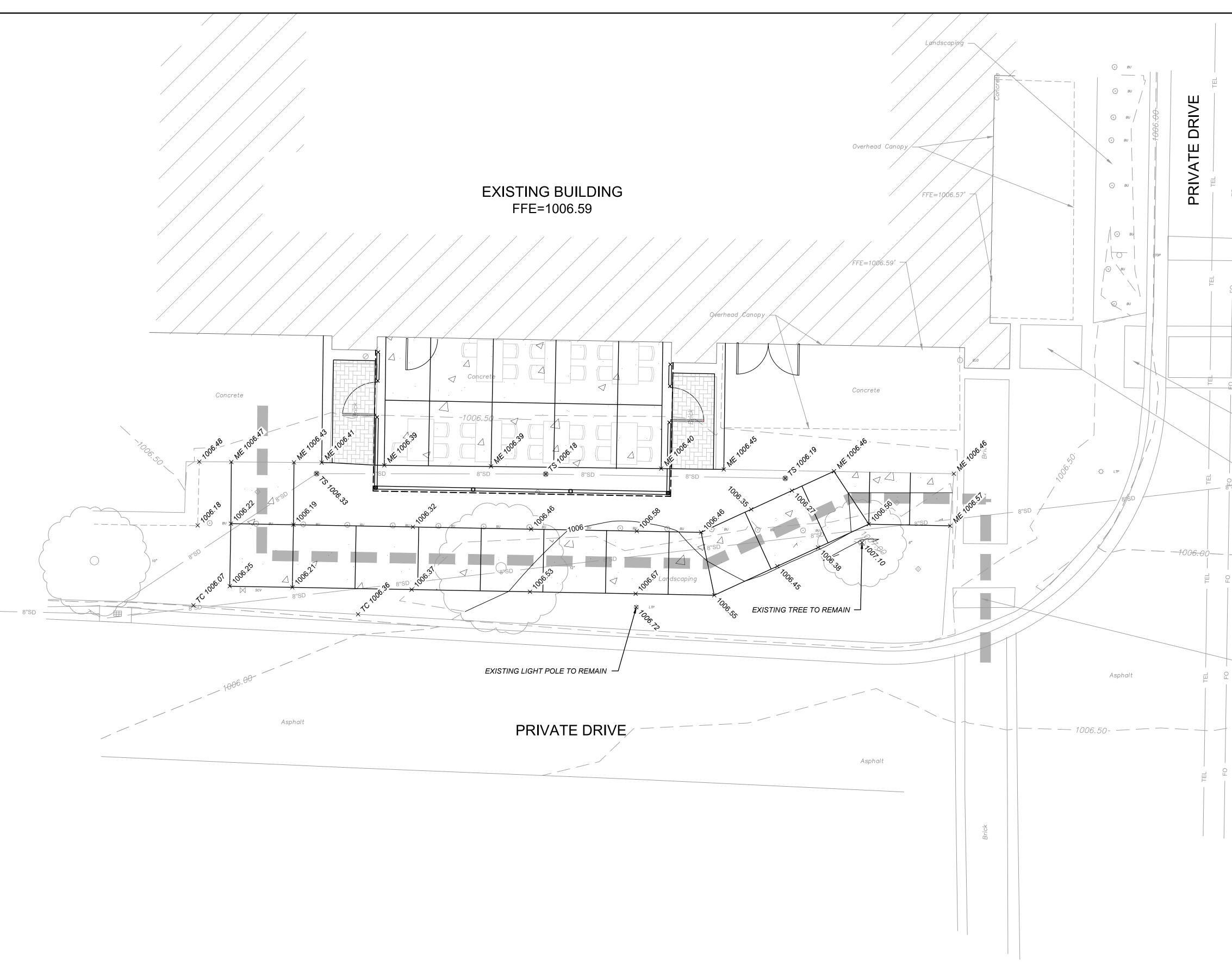
KEYNOTES

- 1. EXPANSION JOINT; REF: C3.00
- 2. CONTROL JOINT; REF: C3.00
- 3. CONSTRUCT CONCRETE PAVING; REF: C3.00
- 4. CONSTRUCT CONCRETE PAVERS, CONCRETE PAVER PATTERN SHALL BE 90° HERRINGBONE PATTERN; REF: C3.00

R 0' 2.5' 5' SCALE IN FEET

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DESCRIPTION BY							REVISIONS
DATE							
REV. NO.							0
							5025
SITE PLAN	PATIO IMPROVEMENTS		ANCHO & AGAVE	860-A NW BLUE PARKWAY			LEE'S SUMMIT, MO
drawn b designe project date:	ed by:_ no.:			02	5-0		<u>1A</u> 25
date:				04.	16.	202	<u>20</u>

SHEET C1.00





THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT- OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

GRADING PLAN NOTES

- 1. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE, SURFACE OF PAVEMENT, TOP OF CURBS, ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT PAVEMENT DEPTH FROM ELEVATIONS SHOWN.
- 2. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
- 3. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE.
- 4. SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT, LIP OF CURB, OR FINISHED GRADE UNLESS OTHERWISE INDICATED. (SEE LEGEND)

LEGEND						
999/	EXISTING GRADE CONTOUR (MAJOR)					
999/	EXISTING GRADE CONTOUR (MINOR)					
9999	FINISH GRADE CONTOUR (MAJOR)					
9999	FINISH GRADE CONTOUR (MINOR)					
	PROPOSED PATIO FENCE					
G	EXISTING GAS LINE					
TEL	EXISTING UNDERGROUND TELECOMM					
FO	EXISTING UNDERGROUND FIBER OPTICS					
SD	EXISTING STORM SEWER					
	PROPOSED ADA ROUTE					

SPOT ELEVATION LEGEND:

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION. TP TOP OF PAVEMENT

- TC TOP OF CURB
- FG FINISHED GRADE WITHIN GREENSPACE TS TOP OF STRUCTURE
- FC CURB DEPRESSED TO BE FLUSH WITH
- ADJACENT PAVEMENT

#SD

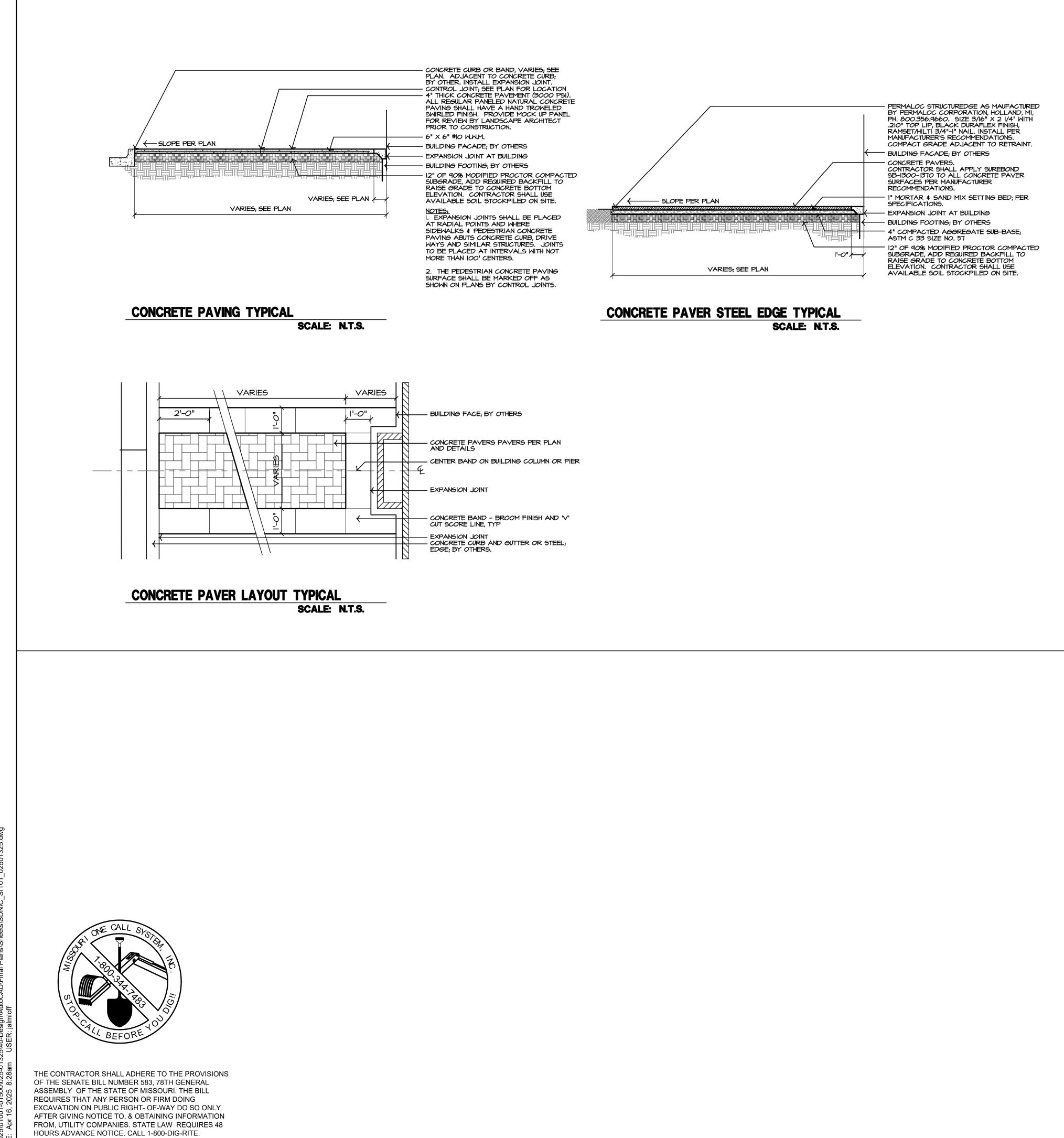
- HP HIGH POINT
- LP LOW POINT ME MATCH EXISTING
- FFE FINISH FLOOR ELEVATION AT TOP OF SLAB

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2.5' 5'	10'
SCALE IN FEET	

2.5'

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DESCRIPTION								REVISIONS
DATE								
REV. NO.								
								2029
GRADING PLAN	PATIO IMPROVEMENTS		ANCHO & AGAVE		860-A NW BLUE PARKWAY			LEE'S SUMMII, MO
drawn design project	ed b no.:	y:			02	25-0	132	<u>1A</u> 25
date:					04	.16.	202	<u>25</u>

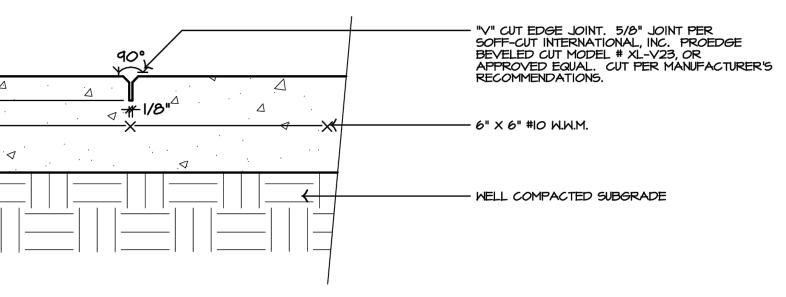
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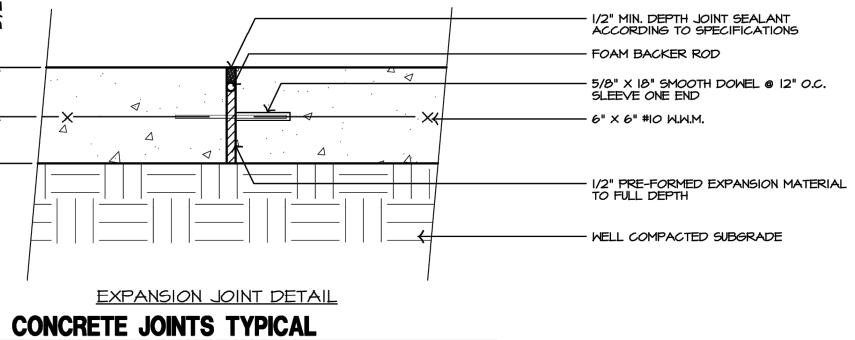


CONTROL JOINT DETAIL - CONCRETE PAVEMENT AREAS N Ω \triangleleft ~1

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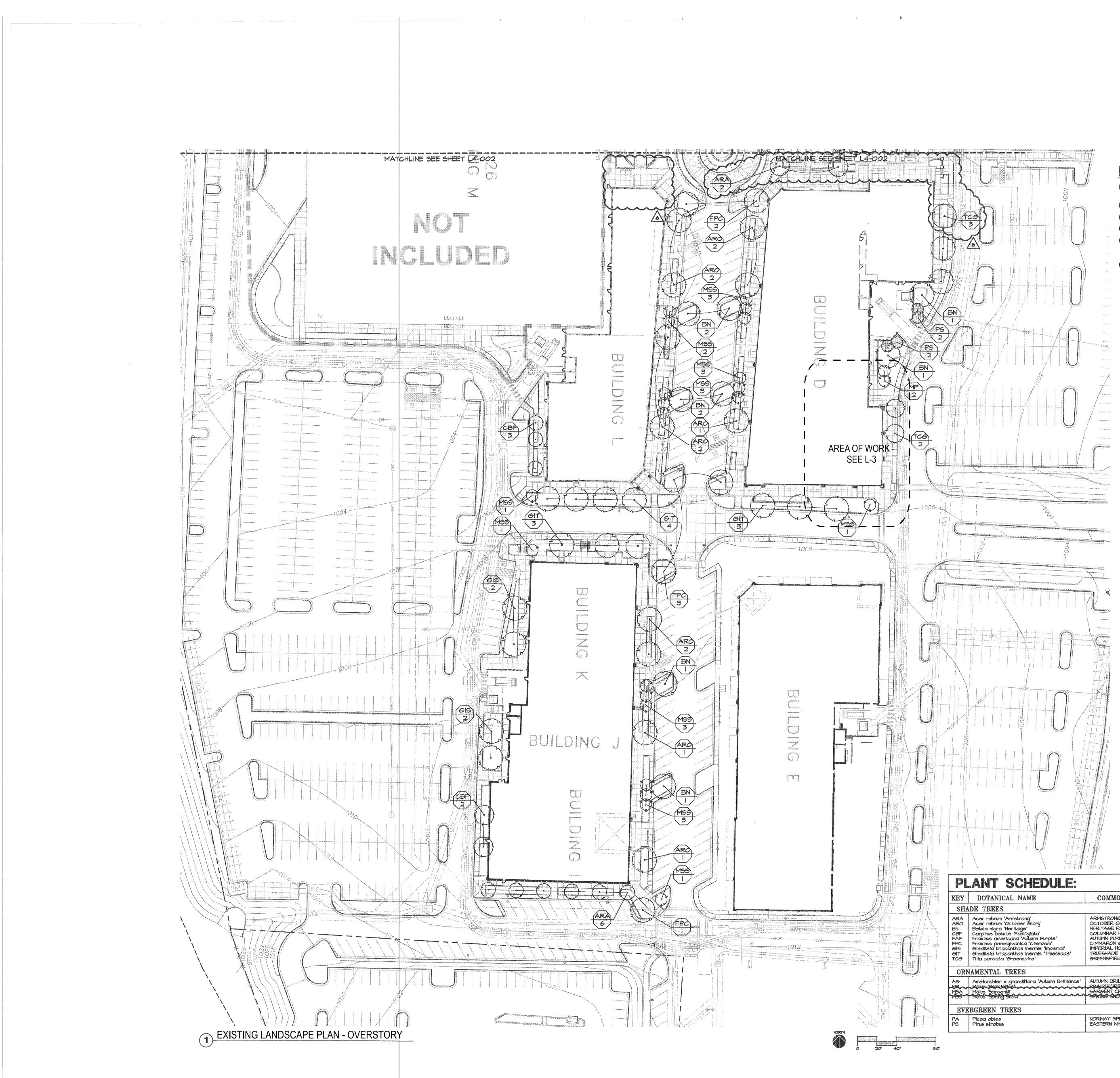






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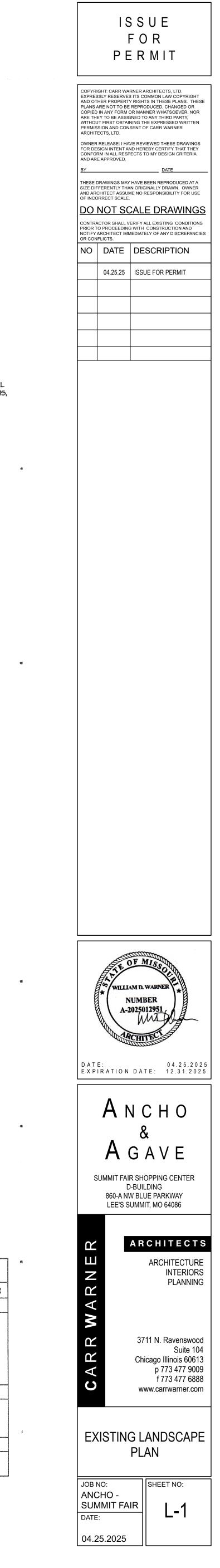
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STANDARD DETAILS PATIO IMPROVEMENTS									
STANDARD DETAILS	PATIO IMPROVEMENTS			ANCHO & AGAVE		860-A NW BLUE PARKWAY			LEE'S SUMMII, MO
drawn design date:	by: _ ed b no.:	y:_				02		JN JN 132	1 <u>A</u> 1 <u>A</u> 25

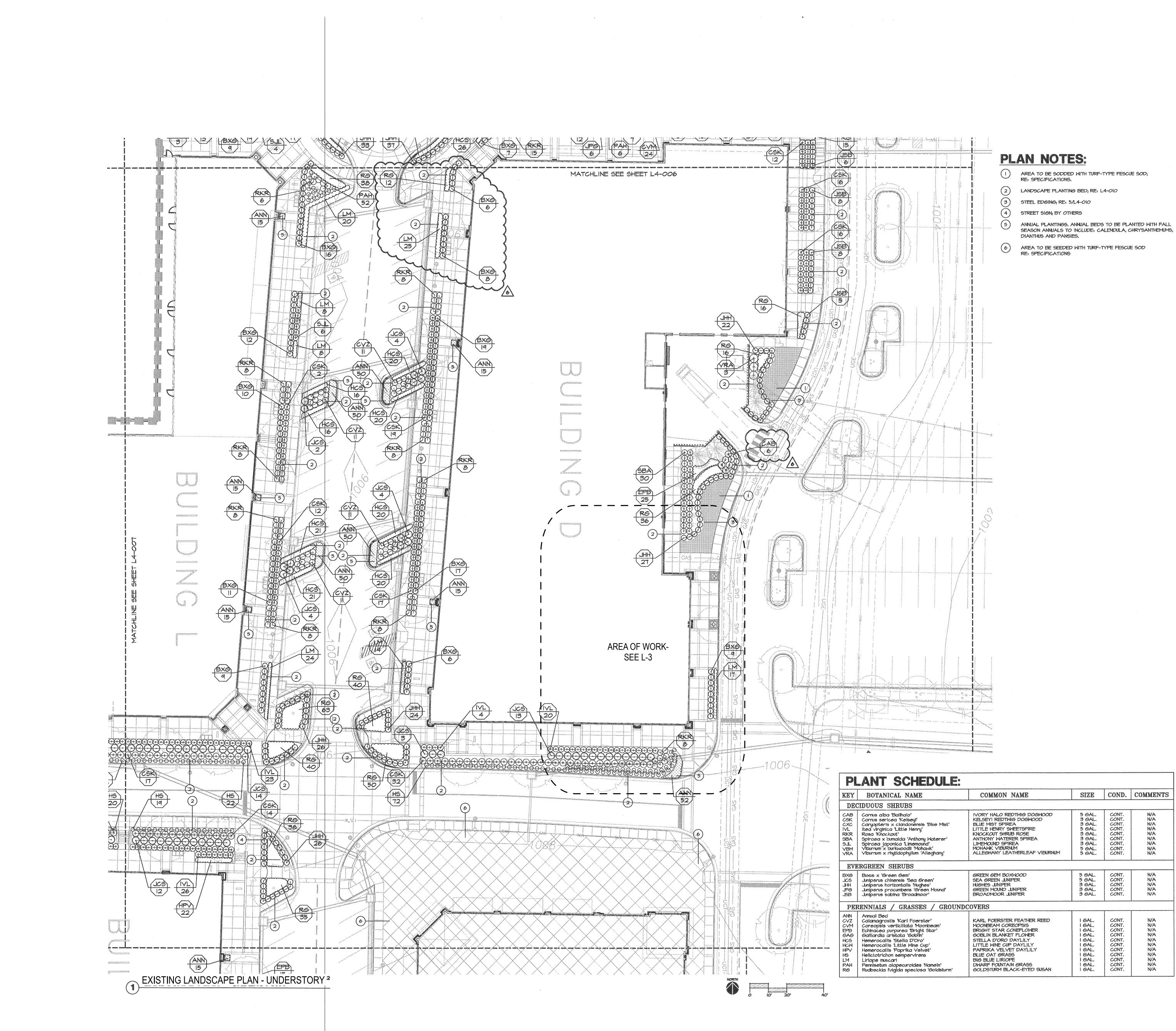


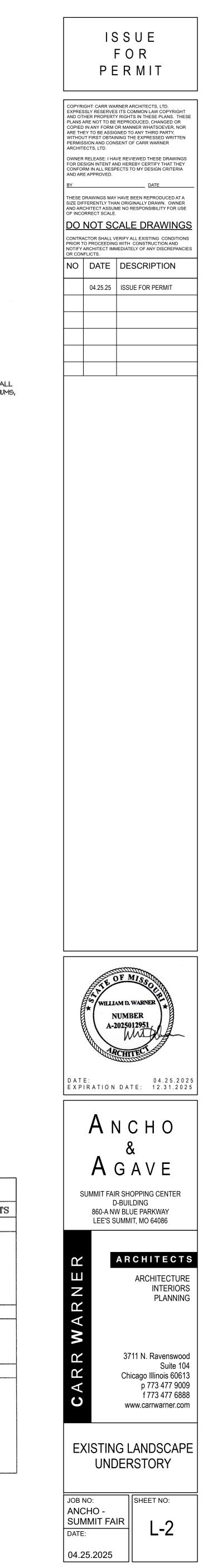
PLAN NOTES:

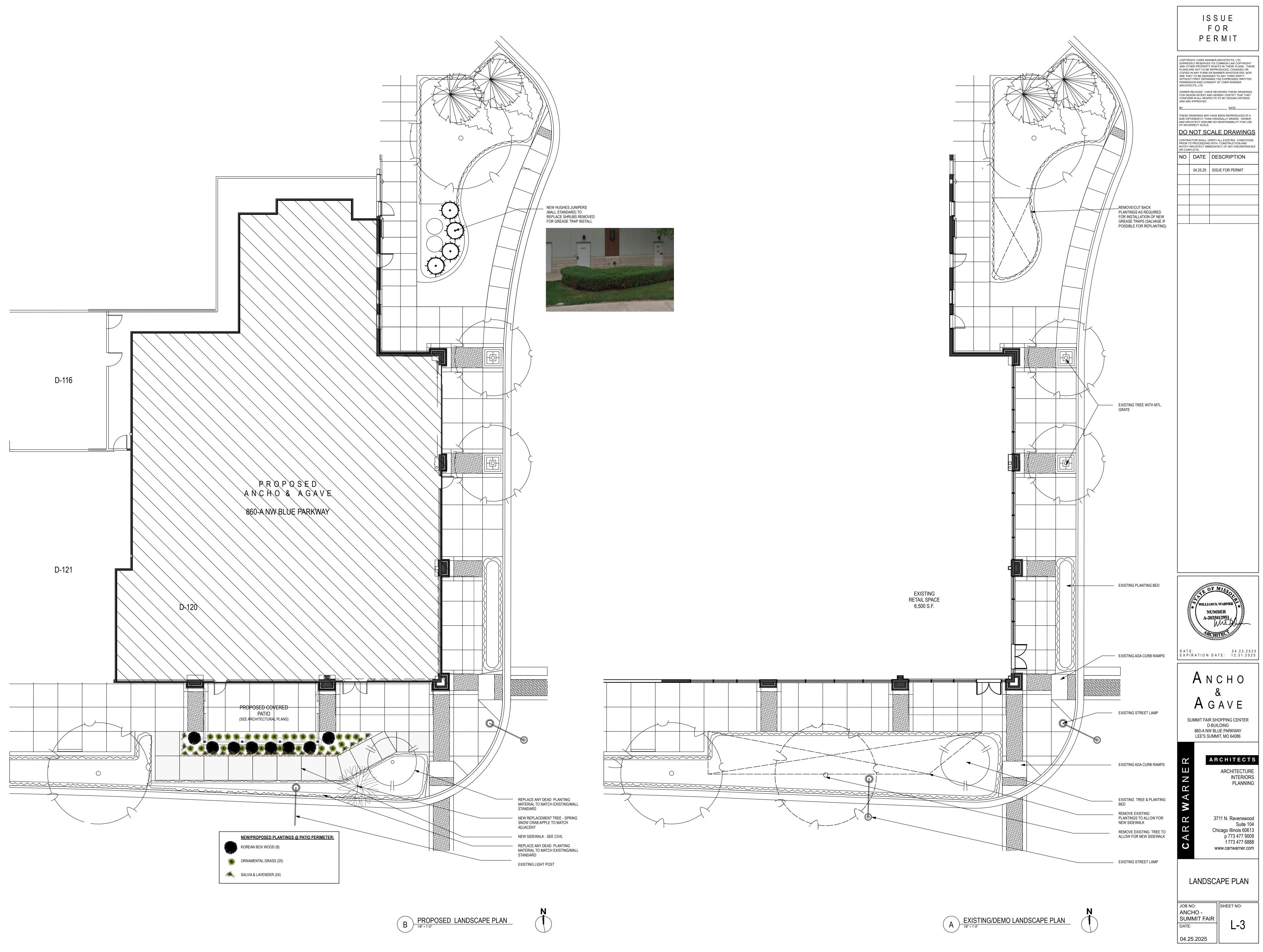
- \bigcirc AREA TO BE SODDED WITH TURF-TYPE FESCUE SOD; RE: SPECIFICATIONS.
- (2)LANDSCAPE PLANTING BED; RE: L4-010 (3) STEEL EDGING; RE: 5/L4-010
- (4)STREET SIGN; BY OTHERS
- 5 ANNUAL PLANTINGS, ANNUAL BEDS TO BE PLANTED WITH FALL SEASON ANNUALS TO INCLUDE: CALENDULA, CHRYSANTHEMUMS, DIANTHUS AND PANSIES.
- 6 AREA TO BE SEEDED WITH TURF-TYPE FESCUE SOD RE: SPECIFICATIONS

KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	COMMENTS
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ARA ARO BN CBF FAP FPC GIS GIT TCG	Acer rubrum 'Armstrong' Acer rubrum 'October Glory' Betula nigra 'Heritage' Carpinus betulus 'Fastiglata' Fraxinus americana 'Autumn Purple' Fraxinus pennsylvanica 'Cimmzam' Gleditsla triacanthos inermis 'Imperial' Gleditsla triacanthos inermis 'Trueshade' Tillia cordata 'Greenspire'	ARMSTRONG RED MAPLE OCTOBER GLORY RED MAPLE HERITAGE RIVER BIRCH COLUMNAR HORNBEAM AUTUMN FURPLE WHITE ASH CIMMARON GREEN ASH IMPERIAL HONEYLOCUST TRUESHADE HONEYLOCUST GREENSPIRE LITTLELEAF LINDEN	3" CAL. 3" CAL. 3" CAL. 3" CAL. 3" CAL. 3" CAL. 3" CAL. 3" CAL. 3" CAL. 3" CAL.	5 # 5 5 5 # 6 5 5 5 5 # 6 5 5 5 5 # 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	*** *** **** ***
ORN	AMENTAL TREES				
AG MGA MGA M95	Amelanchier x grandiflora 'Autumn Brilliance' Malus Sargentii' Malus Sargentii'	AUTUMN BRILLIANCE SERVICEBERRY BRAIRIEEIRE CRABABPLE SARGENT CRABAPPLE SPRING SNOW CRABAPPLE	3" CAL. 3" CAL. 3" CAL.	B + B B + B B + B B + B	CLUMP NA
EVE	RGREEN TREES	An and a second		ан _и ник они и или на	2
PA PS	Picea ables Pinus strobus	NORWAY SPRUCE EASTERN WHITE PINE	8' HT. MIN. 8' HT. MIN.	B # B B # B	N/A N/A













LANDLORD'S INSTRUCTIONS

PURPOSE:

THE FOLLOWING IS A LIST OF SOME OF THE LANDLORD'S INSTRUCTIONS TO GENERAL CONTRACTORS AND HIS/HER SUBCONTRACTORS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN LANDLORD'S

'SUMMIT FAIR' CONTRACTOR RULES AND REGULATIONS

COMPLETE REQUIREMENTS AND RESPONSIBILITIES AND TO MAKE SURE THAT THE LANDLORD'S POLICIES ARE MET.

ROOF PENETRATIONS:

INSTRUCT ALL SUB-CONTRACTORS THAT ANYTHING THAT NEEDS TO BE ATTACHED ABOVE THE CEILING SHOULD BE ATTACHED TO THE ROOF STRUCTURE, NOT THE DECKING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

STRUCTURAL ELEMENTS:

DO NOT MAKE ANY CUTS TO ANY OF THE BUILDING ELEMENTS WITHOUT VERIFYING WHETHER OR NOT IT IS A STRUCTURAL ELEMENT. THIS INCLUDES ROOF BEAMS, ROOF DECK, MASONRY WALLS AND THE CONCRETE SLAB. IF YOU HAVE ANY QUESTIONS REGARDING THE ABOVE INFORMATION, PLEASE CONTACT THE LANDLORD. LANDLORD CONTACT INFORMATION IS FOUND ON CONSTRUCTION WORK LETTER.

FIRE SYSTEM MONITORING:

VERIFY IF THE LANDLORD IS MONITORING THE FLOW AND TAMPER SWITCHES FOR THE SHELL BUILDING. IF THE SYSTEM IS OPERATIONAL, YOU MUST CONTACT THE LANDLORD PRIOR TO MAKING ANY MODIFICATIONS TO THE SYSTEM. ANY FINES CHARGED BY THE FIRE DEPARTMENT FOR FALSE ALARMS WILL BE CHARGED BACK TO THE TENANT'S GENERAL CONTRACTOR. ALL FIRE ALARM MONITORING DEVICES TO BE CONNECTED TO LANDLORD FIRE ALARM SYSTEM. G.C. TO INSTALL/MODIFY EXISTING FIRE ALARM SYSTEM AS NECESSARY PER LOCAL CODES. COORDINATE W/ LICENSED FIRE ALARM CONTRACTOR.

ADDITIONAL LANDLORD INSTRUCTIONS

 ANY ROOF PENETRATIONS NEED TO BE COORDINATED WITH LANDLORD'S ROOFING COMPANY: SCHEFERS ROOFING COMPANY, LANCE SCHEFERS lance@schefersroofing.com or BRIAN GEDWILLO, briang@schefersroofing.com (816) 847-1002 (OFFICE)

· GENERAL CONTRACTOR AND HIS SUBS SHALL FIELD VERIFY LEASE SPACE FOR CONDITIONS AND THAT SPACE CONFORMS TO APPROVED LEASE OUTLINE DIAGRAM AS APPROVED WITH LEASE.

· GENERAL CONTRACTOR AND HIS SUBS SHALL LOCATE ANY ROOF TOP VENTS A MIN. 10' AWAY FROM ANY ADJACENT ROOFTOP UNITS. · GENERAL CONTRACTOR AND HIS SUBS SHALL INSTALL WATER SHUT OFF VALVE AT EYE

LEVEL AND BE INDICATED AS SUCH WITH A PROFESSIONAL CREATED SIGN. SHUT OFF VALVE SHALL NOT BE INSTALLED AT A HEIGHT THAT WOULD REQUIRE A LADDER TO ACCESS.

ARCHITECT'S INSTRUCTIONS

SUBMITTALS:

IF ALTERNATE EQUIPMENT IS PROPOSED DUE TO LEAD TIME, THE ARCHITECT OR ENGINEER MAY REQUEST PAYMENT FROM G.C. FOR REVIEW OF THE SUBMITTAL. GENERAL CONTRACTOR MUST VERIFY LONG LEAD ITEMS AT START OF PROJECT TO AVOID DELAYS & ALTERNATES.

SPECIAL INSPECTIONS (IF REQUIRED)

1. SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE FOLLOWING: CONCRETE, BOLT IN CONCRETE, REINFORCING STEEL, WELDING, SPECIAL GRADING, EXCAVATION & FILLING, & STUCCO SYSTEMS. SPECIAL INSPECTIONS OF SPECIFIC ITEMS ARE TO BE PROVIDED ONLY IF REQUIRED BY LOCAL CODE OR CITY INSPECTORS. SPECIAL INSPECTIONS ARE IN ADDITION TO ALL STANDARD BUILDING INSPECTIONS REQUIRED & ARE NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR. ALL WORK REQUIRING SPECIAL INSPECTION WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL AT THE CONTRACTORS EXPENSE.

2. CONTINUOUS INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS.

3. SPECIAL INSPECTORS MUST BE CERTIFIED BY LOCAL JURISDICTION TO PERFORM THE TYPES OF INSPECTIONS REQUIRED.

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.

5. LICENSED FABRICATOR REQUIRED FOR STEEL SHAPES.

6. WELDING TO BE DONE BY WELDERS CERTIFIED BY LOCAL JURISDICTION (STRUCTURAL STEEL, REINFORCING STEEL & LIGHT GAUGE STEEL.)

GENERAL INSTRUCTIONS

TYPE I HOOD FIRE EXTINGUISHING SYSTEM

THE VENT HOOD SYSTEM SHALL COMPLY WITH NFPA 96 & SHALL BE EQUIPPED WITH A FIRE EXTINGUISHING SYSTEM. THE FUEL SUPPLY TO ALL COOKING EQUIPMENT UNDER THE VENT HOOD SHALL SHUT OFF UPON ACTIVATION OF THE FIRE EXTINGUISHING SYSTEM. THE VENT HOOD FIRE EXTINGUISHING SYSTEM SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM IF PROVIDED. ALL ELECTRICAL OUTLETS UNDER THE HOOD SHALL DE-ACTIVATE UPON ACTIVATION OF THE FIRE EXTINGUISHING SYSTEM.

1. APPROVED AUTOMATIC FIRE-EXTINGUISHING SYSTEMS SHALL BE PROVIDED FOR THE PROTECTION OF COMMERCIAL-TYPE COOKING EQUIPMENT. SEPARATE COMPLETE PLANS FOR THESE SYSTEMS SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. (CFC 904.2.1, CFC 609.2)

2. FIRE EXTINGUISHERS PROVIDED FOR THE PROTECTION OF COOKING GREASE FIRES SHALL BE OF AN APPROVED TYPE COMPATIBLE WITH THE AUTOMATIC FIRE EXTINGUISHING SYSTEM AGENT IN ACCORDANCE WITH SECTION 904.11.5 WITHIN 30 FEET OF COMMERCIAL COOKING EQUIPMENT (CFC 906.1. 906.4).

G.C. COMPLIANCE

GENERAL CONTRACTOR SHALL VISIT THE PREMISES AND VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL REPORT ALL DISCREPANCIES TO TENANT'S ARCHITECT. GENERAL CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS REGARDING CONSTRUCTION PROCEDURES INSURANCE, ETC., AS SET FORTH BY THE LANDLORD. GC TO VERIFY THE EXACT LOCATION OF ALL EXISTING LANDLORD FEATURES I.E. METAL BRACE FRAME, STOREFRONT OPENINGS, CORRIDOR ACCESS DOOR, DEMISING WALLS, UTILITY P.O.C., ETC.

SIGNAGE

TENANT'S SIGNAGE CONTRACTOR SHALL PREPARE SIGNAGE SHOP DRAWINGS AND SUBMIT TO BUILDING DEPT. & LANDLORD FOR APPROVAL. ALL SIGNAGE IS UNDER SEPARATE PERMIT

FIRE SPRINKLERS

1. AN AUTOMATIC FIRE SPRINKLER SYSTEM EXISTS WITHIN THE SPACE. THE GENERAL CONTRACTOR SHALL EMPLOY THE SERVICES OF THE LANDLORD'S, OR ANOTHER LICENSED FIRE SPRINKLER CONTRACTOR TO DESIGN AND INSTALL ANY MODIFICATIONS TO THE EXISTING SYSTEM AND TO CONFORM WITH THE NEW ROOM AND CEILING HEIGHTS AS SHOWN IN THESE DRAWINGS. THE SPRINKLER CONTRACTOR SHALL DESIGN AND PREPARE SHOP DRAWINGS FOR THE PROPOSED SYSTEM MODIFICATIONS & SUBMIT THESE DRAWINGS TO THE BLDG. /FIRE DEPT. & THE ARCHITECT TO GAIN APPROVALS PRIOR TO COMMENCING ANY WORK. PUBLIC AREA HEADS TO BE CONCEALED TYPE W/ BLACK COVERS AT DARK CEILINGS, WHITE AT LIGHT CEILINGS & CHROME IN TOILETS. HEADS IN NON-PUBLIC AREAS ARE TO BE SEMI-RECESSED. INSTALLATION IS TO INCLUDE ALL SITE WORK.

2. COMPLETE PLANS AND SPECIFICATIONS FOR FIRE-EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND WET AND DRY STANDPIPES: HALON SYSTEMS AND OTHER SPECIAL TYPES OF AUTOMATIC FIRE-EXTINGUISHING SYSTEMS; BASEMENT PIPE INLETS; AND OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES THERETO SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

3. LANDLORD (BUILDING OWNER) FIRE SUPPRESSION SYSTEM VENDOR IS: ABSOLUTE FIRE, contact: DOUG MASON #816/737-9991 sprinklerduo@sbcglobal.net TO BE NOTIFIED PRIOR TO ANY WORK PERFORMED WITHIN TENANT SPACE.

4. FIRE EXTINGUISHING SYSTEM SHALL BE IN ACCORDANCE WITH CFC SECTION 903.

FIRE ALARM

1. EXISTING FIRE PANEL TO REMAIN. FIRE CONTRACTOR TO TIE INTO BUILDING SYSTEM OR PROVIDE NEW SYSTEM AS REQ'D BY LOCAL JURISDICTION. F.C. TO PROVIDE DRAWINGS AND SPECIFICATIONS FOR CITY/VILLAGE APPROVAL.

2. LANDLORD REQUIRES TENANT RETAIN THE BASE BUILDING FIRE ALARM SUB-CONTRACTOR FOR CONNECTION(S) TO LANDLORD INSTALLED EQUIPMENT AND FOR INSTALLATION AND TESTING OF TENANT'S FIRE ALARM WORK.

3. LANDLORD (BUILDING OWNER) FIRE ALARM VENDOR IS: KANSAS CITY FIRE & SECURITY, LLC contact: KARI QUINLAN kquinlan@marmicfire.com or CORBY FISHER cfisher@marmicfire.com TO BE NOTIFIED PRIOR TO ANY WORK PERFORMED WITHIN TENANT <u>SPACE.</u>

<u>BID NOTES</u>

1. BID FORMS TO BE PROVIDED BY CLIENT TO G.C.

2. ALL ITEMS NOTED AS (N.I.C.) TO BE BID SEPARATELY FROM THE BASE BID.

3. G.C. RESPONSIBLE FOR COORD. W/ ALL UTILITY CO. INCLUDING BUT NOT LIMITED TO: ELECTRICAL, WATER, WASTE, STORM, PHONE/DATA TO PROVIDE SERVICES AS CALLED FOR ON THE DRAWING. LOAD LETTERS & SERVICE APPLICATIONS TO BE COMPLETED & SUBMITTED BY G.C.

4. SPRINKLER SYSTEM; G.C. TO PROVIDE SPRINKLER SYSTEM DESIGN & PERMIT. SEE FIRE DEPT. NOTES 5. FIRE ALARM SYSTEM: G.C. TO PROVIDE FIRE SYSTEM DESIGN & PERMIT. SEE FIRE DEPT. NOTES

SPRINKLER NOTES

1. MODIFY EXISTING SPRINKLER SYSTEM FOR NEW TENANT CEILING LAYOUT, OUTDOOR COVERED PATIO, AND OCCUPANCY REQUIREMENTS. PROVIDE SPRINKLER SYSTEM DESIGN & PERMIT. PROVIDE SHOP DRAWINGS TO ARCHITECT FOR APPROVAL.

<u>ACCESSIBILIT</u>Y NOTES

REFER TO SHEET #A1.2 FOR ACCESSIBILITY NOTES AND DIAGRAMS. REFER TO SHEET #A8.1 AND A8.3 FOR TOILET ROOM ACCESSIBILITY INFORMATION. GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY TYPE OF SOILS. IF CORROSIVE SOILS ARE ENCOUNTERED, TAKE NECESSARY PRECAUTIONS FOR ALL UNDERGROUND WORK.

2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON DRAWINGS FOR CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. DO NOT SCALE DRAWINGS.

3. BIDDERS ARE INSTRUCTED TO CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS & SITE.

4. NO STRUCTURE OF ANY KIND TO BE CONSTRUCTED ON, OVER OR PLACED WITHIN THE PUBLIC UTILITY EASEMENTS EXCEPT WOOD, WIRE OR REMOVABLE SECTION TYPE FENCING AND/OR PAVING.

5. CONTRACTOR TO COORDINATE STAGING AREAS AS REQUIRED WITH LANDLORD AND OWNER/TENANT.

6. ANY DAMAGE BY G.C. OR SUBCONTRACTOR TO EXISTING ASPHALT OR CONCRETE PAVEMENT AND/OR EXISTING LANDSCAPING OUTSIDE OF CONSTRUCTION LIMIT LINE SHALL BE REPAIRED AT NO COST TO OWNER.

7. SIDEWALK ELEVATIONS TO BE COORDINATED WITH SITE AS-BUILT CONDITIONS. ARCHITECT TO BE NOTIFIED OF ANY DISCREPANCIES.

8. G.C. TO COORDINATE LOCATION & PLACEMENT OF GREASE REMOVAL SYSTEM WITH PLUMBING CONTRACTOR. FIELD VERIFY ANY (E) SITE CONDITIONS THAT MAY IMPEDE INSTALLATION AND/OR OPERATION OF SUCH.

9. APPROVED NUMBERS OR ADDRESSES SHALL BE MAINTAINED & AS CURRENTLY PLACED ON BUILDING.

10. NO MATERIALS SHALL BE STORED ON PUBLIC PROPERTY UNLESS AN ENCROACHMENT PERMIT IS FIRST OBTAINED FROM THE CITY OF OMAHA PUBLIC WORKS DEPARTMENT.

11. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD AT FRAMED WALLS & SOFFITS. TYPICAL UNLESS OTHERWISE NOTED. AT MILLWORK LOW WALLS, DIMENSIONS ARE TO FACE OF FINISHED WALL, TYPICAL.

12. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE FOR PEDESTRIAN PROTECTION ACCORDING TO MALL OWNER, LOCAL REGULATIONS & BUILDING CODE.

13. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED BY G.C.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE SECURITY & SAFETY OF THE SITE WHILE THE JOB IS IN PROGRESS & UNTIL THE JOB IS COMPLETE.

15. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS & WORKERS AT ALL TIMES.

16. ALL DEBRIS SHALL BE REMOVED FROM THE PREMISES DAILY & WORK AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS TO THE OWNER AND TENANT PRIOR TO START OF THE PROJECT.

18. CONTRACTOR SHALL COMPLY WITH ALL STATE & LOCAL RULES & REGULATIONS CONCERNING LICENSING WHICH THE APPLICABLE GOVERNING AUTHORITY MAY HAVE ADOPTED.

19. ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.

20. GENERAL CONTRACTOR SHALL PLACE ORDERS FOR ALL FINISHES, ALL MATERIALS, EQUIPMENT; ETC. AT THE START OF THE PROJECT. SUBSTITUTIONS ARE NOT ACCEPTED FOR ANY ITEMS, UNLESS NOTED OTHERWISE. OWNER & ARCHITECT MUST BE INFORMED OF LEAD TIME PROBLEMS WITHIN THE FIRST TWO WEEKS OF THE PROJECT.

21. PROVIDE VENTILATION FOR KITCHEN & FOOD PREPARATION ARE AS PER MECHANICAL AND KITCHEN DRAWINGS.

22. SIGNS ARE REQUIRED FOR ALL MP&E ROOMS & SPRINKLER CONTROL VALVE ROOMS.

23. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE APPLICANT SHALL HAVE EVIDENCE OF CURRENT WORKMAN'S COMPENSATION INSURANCE COVERAGE ON FILE WITH THE DEPARTMENT IN COMPLIANCE WITH THE LOCAL LABOR CODE.

24. AFTER OBTAINING BUILDING PERMIT AND BEFORE COMMENCING WITH THE WORK, THE GENERAL CONTRACTOR SHALL SHOW EVIDENCE OF ALL THE INSURANCE REQUIREMENTS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND OBTAIN ALL PERMITS AND LICENSES AND PAY REQUIRED FEES.

26. CONTRACTOR SHALL BE FAMILIAR WITH ALL LANDLORD REQUIREMENTS AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH SAME. CONTRACTOR SHALL INVESTIGATE LOCAL CODES AND PROCEDURES AND SHALL COMPLY WITH ALL REQUIREMENTS.

27. A COPY OF LANDLORD'S FINAL APPROVED PLANS MUST BE ON SITE DURING CONSTRUCTION.

28. REMOVE ALL ABANDONED IMPROVEMENTS, INCLUDING ELECTRICAL AND MECHANICAL, IF ANY.

29. INSPECT SITE: VERIFY FIELD DIMENSIONS BEFORE COMMENCING CONSTRUCTION. NOTIFY TENANT AND LANDLORD IMMEDIATELY IF THERE ARE ANY SIGNIFICANT DISCREPANCIES.

30. WHERE FACTORY FINISHED OR FACTORY PRIMED ITEMS OCCUR. SUCH AS GRILLES. DIFFUSERS, METAL TRIM AND ACCESSORIES, ETC. THEY SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE AND AS DIRECTED BY THE OWNER.

31. CONTRACTOR SHALL, IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING, PATCHING, REPAIRING, RESTORING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND TO RESTORE ANY DAMAGED OR AFFECTED SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER.

32. THERE SHALL BE NO EXPOSED PIPE, CONDUITS, ETC. IN PUBLIC AREAS, U.N.O. ALL SUCH LINES SHALL BE CONCEALED OR FURRED AND FINISHED.

33. GENERAL CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. DISCREPANCIES IF ANY, SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

34. SHOULD THE DRAWINGS DISAGREE WITH THEMSELVES OR WITH THE SPECIFICATIONS OR SHOULD THE SPECIFICATIONS DISAGREE WITH THEMSELVES, THE BETTER QUALITY AND/OR GREATER QUANTITY OF WORK OR MATERIAL SHALL BE ESTIMATED UPON AND UNLESS OTHERWISE ORDERED IN WRITING SHALL BE FURNISHED AND INSTALLED.

35. NO SUBSTITUTIONS ARE PERMITTED UNLESS PRIOR APPROVAL BY THE OWNER.

36. IF ANY DISCREPANCIES APPEAR IN CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF SUCH DISCREPANCIES PRIOR TO BID.

37. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ARRIVAL OF ALL SPECIFIED FINISH MATERIALS EQUIPMENT, LIGHT FIXTURES AND ANY OTHER SUCH MATERIAL (S) TO BE UTILIZED ON THE PROJECT. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING WITHIN 10 DAYS OF THE DATE OF CONTRACT OF THOSE SPECIFIED ITEMS THAT MAY NOT BE READILY AVAILABLE. IF NOTIFICATION IS NOT RECEIVED BY THE OWNER THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR THE PROPER ORDERING AND FOLLOW-UP OF SPECIFIED ITEMS AND WILL PURSUE WHATEVER MEANS NECESSARY AT NO ADDITIONAL COST TO THE OWNER, INSURE AVAILABILITY OF ALL SPECIFIED ITEMS SO AS NOT TO CREATE A HARDSHIP ON THE OWNER AND NOT DELAY PROGRESS OF THE WORK. NO EXTENSION OF TIME TO THE CONTRACT WILL BE ALLOWED.

38. MECHANICAL CONTRACTORS SHALL VERIFY EXACT DIMENSIONS WITH EQUIPMENT MANUFACTURERS. MECHANICAL CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS BEFORE INSTALLATION AND VERIFY DISCREPANCIES. IF ANY.

39. ALL EXTERIOR WALL OPENINGS, FLASHING, COUNTER FLASHING, COPING AND EXPANSION JOINTS SHALL BE WEATHERPROOF

40. CAULKING AND SEALANTS: ALL OPEN JOINTS PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER STRIPPED TO LIMIT AIR AND WATER LEAKAGE.

41. USE ACOUSTICAL SEALANT AROUND ALL PIPES, DUCTS CONDUITS, OUTLETS, SWITCHES, ETC. ON BOTH SIDES OF CROSSING/PENETRATING WALLS WITH THERMAL AND ACOUSTIC INSULATION.

42. ALL NOISE BARRIER BATTS (SOUND INSULATION) SHALL BE NON-COMBUSTIBLE.

43. EACH CONTRACTOR SHALL LEAVE THE SITE IN A NEAT, CLEAN AND ORDERLY CONDITION ON A DAILY BASIS AND UPON CONCLUSION OF HIS WORK. ALL WASTE, RUBBISH AND EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE PROMPTLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH GENERATED BY OWNERS CONTRACTORS FOR THE DURATION OF THE PROJECT.

44. SAFETY: ALL CONDUIT, WORK EQUIPMENT AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST SAFETY RULES AND REGULATIONS OF ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION OVER THE WORK.

RIGHTS AND RESPONSIBILITIES.

1. CONTRACTOR TO PROVIDE A SUFFICIENT NUMBER OF 2A 10BC RATED FIRE EXTINGUISHERS DURING CONSTRUCTION SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 75 FT. TRAVEL DISTANCE OF SAID EXTINGUISHER & SO THAT AT LEAST ONE 2A10BC RATED FIRE EXTINGUISHER IS PROVIDED FOR EACH 3,000 SQ. FT. OF FLOOR SPACE OR PORTION THEREOF.

2. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 40-B FOR KITCHEN. LOCATE EXTINGUISHERS PER LOCAL FIRE DEPARTMENT INSPECTOR.

6. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN EACH ASSEMBLY ROOM HAVING AN OCCUPANT CONTENT OF 50 OR MORE. SIGN IS TO BE POSTED NEAR ENTRANCE, COORDINATE LOCATION OF SUCH SIGN WITH FIRE MARSHAL. SIGN TO BE PROVIDED & INSTALLED BY OWNER VENDOR.

7. MAINTAIN MIN. 44" AISLES TO EXIT OR PUBLIC WAY.

BACKGROUND.

9. EXIT SIGNS MUST BE INTERNALLY ILLUMINATED. 10. PROVIDE TWO (2) SEPARATE POWER SUPPLIES FOR EXIT SIGNS CONFORMING TO CODE SECTION.

11. PROVIDE EMERGENCY EXIT LIGHTING PROVIDING A VALUE OF ONE FOOT CANDLE AT FLOOR LEVEL.

12. ADDITIONAL EXIT SIGNS WILL BE PROVIDED AS/IF DIRECTED BY THE CITY INSPECTOR. 13. SEE "ROOM FINISH SCHEDULE" FOR SMOKE DENSITY RATING & FLAME SPREAD RATING OF MATERIALS USED.

14. INTERIOR WALL & CEILING FINISHES FOR ASSEMBLY AREAS SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING OF 20.

15. ANY DECORATIONS USED SHALL BE NON-COMBUSTIBLE OR FLAME PROOFED IN AN APPROVED MANNER.

16. FINISHES SHALL NOT EXCEED CLASS A, B OR C AS INDICATED IN THE BUILDING CODE. 17. PROVIDE OUTSIDE GAS SHUT - OFF VALVE CONSPICUOUSLY MARKED.

GENERAL NOTES - CONT.

45. CONSULT PROPERTY UTILITY PLANS BEFORE SAW CUTTING CONCRETE SLAB, IF ANY.

46. THE ARCHITECT WILL NEITHER HAVE CONTROL OVER OR CHARGE OF, NOR BE RESPONSIBLE FOR, THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S

FIRE DEPARTMENT NOTES

3. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR DURING CONSTRUCTION & FOR COMPLETED PROJECT.

4. ALL EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL.

5. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT SPECIAL KNOWLEDGE OR EFFORT (NO DEAD BOLTS, NO SLIDING BOLTS, ETC.).

8. PROVIDE EXIT SIGNS ABOVE EXITS WITH MIN. 3/4"x6" LETTERS LIGHTED ON CONTRASTING

FIRE DEPARTMENT NOTES - CONT

18. PROVIDE A KNOX BOX FOR FIRE DEPT. ACCESS & KEY ACCESS, LOCATION AS DETERMINED BY FIRE MARSHAL.

19. EXIT SIGNAGE SHALL BE PROVIDED & MAINTAINED FOR CORRIDORS & AISLE WAYS LEADING TO EXITS IN ACCORDANCE WITH STATE CODE. SIGNAGE SHALL STATE: "OBSTRUCTIONS, INCLUDING STORAGE, SHALL NOT BE PLACED IN THE REQUIRED WIDTH OF AN EXIT OR EXIT PASSAGEWAY."

20. GENERAL CONTRACTOR SHALL SECURE PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE DEPARTMENT PRIOR TO OCCUPYING THIS BUILDING.

21. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. G.C. TO VERIFY INSPECTION SCHEDULING REQUIREMENTS AT LEAST 14 DAYS PRIOR TO COMPLETION OF WORK

22. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE & COMBUSTIBLE LIQUIDS, FLAMMABLE & COMPRESSED GASES & OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH STATE BUILDING CODE REGULATIONS.

23. ANY TYPE I HOOD INSTALLATION & SHAFT CONSTRUCTION MUST COMPLY WITH THE STATE & MECH CODE.

24. WHEN ALLOWED BY FIRE MARSHAL AND/OR BUILDING INSPECTOR, FIRE BLOCKS CAN BE SUBSTITUTED WITH APPROVED FIRE SPRINKLER SYSTEM.

25. IN ADDITION TO THE SPRINKLER MONITORING SYSTEM, A FIRE SYSTEM PER NFPA #13 SPECIFICATIONS MUST BE INSTALLED. PLANS FOR THE FIRE ALARM MUST BE SUBMITTED TO THE BUILDING DEPARTMENT FOR FIRE DEPARTMENT REVIEW PRIOR TO INSTALLATION. THE KITCHEN HOOD FIRE PROTECTION SYSTEM WILL CAUSE INITIATION OF AN ALARM SIGNAL.

26. ALL EXIT DOORS & INTERVENING DOORS ON THE EXIT PATH, IF PROVIDED WITH A LOCK OR LATCH, MUST BE PROVIDED WITH PANIC HARDWARE.

27. PLANS FOR THE KITCHEN HOOD FIRE PROTECTION SYSTEM MUST BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW BY THE FIRE DEPARTMENT PRIOR TO INSTALLATION.

28. THE FIRE SPRINKLER SYSTEM DESIGN CRITERIA IS AS SET FORTH BY THE FIRE MARSHAL. 29. PREMISES IDENTIFICATION TO BE LEGIBLE FROM STREET OR DRIVE & MUST BE ON ALL

PLANS.

30. BACK FLOW PREVENTION WILL BE REQUIRED ON VERTICAL RISER ON CLASS I & II FIRE SPRINKLER SYSTEM PER LOCAL JURISDICTION CODE.

31. EXIT & EMERGENCY LIGHTING SHALL COMPLY WITH THE VILLAGE ORDINANCE & 2021 IFC.

32. FIRELINE, SPRINKLER & STANDPIPE SYSTEM TO BE FLUSHED & PRESSURE TESTED PER NFPA STANDARDS & LOCAL JURISDICTION CODES.

33. FDC SIAMESE CONNECTIONS FOR SPRINKLERS AND/OR STANDPIPES WILL BE LOCATED PER ORDINANCE OR AT AN APPROVED LOCATION MIN. SIZE 2 1/2" X 2 1/2" X 4" (NHST) BUILDING MOUTED.

34. SPRINKLER SYSTEM SHALL BE INSTALLED TO COMPLY WITH MINIMUM NFPA CRITERIA & VILLAGE ORDINANCE. SYSTEMS WITH 20 HEADS OR MORE SHALL HAVE OFF-SITE MONITORING. AFTER BUILDING PLAN REVIEW, INSTALLING CONTRACTOR SHALL SUBMIT (3) COMPLETE SETS OF DRAWINGS & HYDRAULIC CALCULATIONS.

35. REVIEWED BY MINIMUM NICET III DESIGN TECHNICIAN. NFPA COMMERCIAL SYSTEM / DESIGN CRITERIA : ORD. GR. II - 0.20/1500 (1996 EDITION) - PE STAMP REQUIRED.

36. CONSTRUCTION WITHIN LOCAL JURISDICTION SHALL COMPLY WITH THE APPLICABLE FIRE CODE STANDARDS, AS AMENDED BY THE COUNTY CONSTRUCTION ORDINANCE, SUBTITLE 11.

37. THE APPLICANT IS RESPONSIBLE TO IDENTIFY & COORDINATE DEFERRED SUBMITTALS.

38. THE FIRE SPRINKLER RISER SHALL BE LOCATED INSIDE BUILDING WITH DIRECT EXTERIOR ACCESS. ALL OCCUPANCIES ARE REQUIRED TO PROVIDE EXTERIOR ACCESS TO A FIRE RISER ROOM DESIGNED FOR THE FIRE SYSTEMS ONLY.

39. FIRE DEPARTMENT INLET CONNECTIONS (FDC) SHALL BE LOCATED ON THE WALL OF THE ADDRESS SIDE OR NATURAL APPROACH OF THE BUILDING IT SERVES & SHALL IDENTIFY THE BUILDING(S) SERVED WITH PERMANENT SIGNAGE.

40. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS & WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLER HEADS EXCEEDS 19. IBC SECTION 903.4.

41. IN ADDITION TO THE EXTERIOR BELL OR HORN, AN APPROVED AUDIBLE/VISUAL FIRE SPRINKLER FLOW ALARM SHALL BE PROVIDED IN THE INTERIOR OF ALL BUILDINGS IN A NORMALLY OCCUPIED LOCATION. THE A/V DEVICE SHALL BE A MINIMUM OF 75 CD LUMENS & 15 DB ABOVE THE AMBIENT SOUND LEVEL. IFC SECTION 907.10 & ADAAG SECTION 4.28.

42. PLANS & SPECIFICATIONS FOR FIRE SPRINKLER SYSTEMS EXCEEDING 19 HEADS SUBMITTED FOR REVIEW SHALL BE SEALED BY A QUALIFIED LOCAL JURISDICTION REGISTRANT IN FIRE SPRINKLER DESIGN. THE INSTALLING CONTRACTOR'S NAME, ADDRESS & PHONE NUMBER ARE TO BE INCLUDED ON THE DRAWINGS & CALCULATIONS SUBMITTED FOR REVIEW & APPROVAL. AS-BUILT DRAWINGS WILL BE REQUIRED WHERE FIELD CHANGES ARE MADE TO THE DESIGNED DRAWINGS.

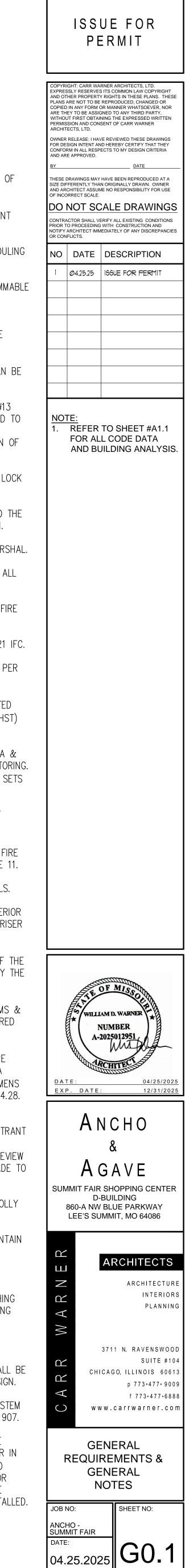
43. FIRE SPRINKLERS SHALL BE INSTALLED IN ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION.

44. AN APPROVED KEY BOX IS REQUIRED ON ALL COMMERCIAL STRUCTURES THAT CONTAIN OFF SITE MONITORED FIRE SPRINKLERS, A FIRE ALARM SYSTEM OR WHEN ACCESS IS DIFFICULT & WHERE IMMEDIATE ACCESS IS REQUIRED FOR LIFE SAVING OR FIREFIGHTING.

45. PLANS & SPECIFICATIONS FOR FIRE ALARM SYSTEMS. AUTOMATIC FIRE-EXTINGUISHING SYSTEMS, STANDPIPES & THEIR APPURTENANCES SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW & APPROVAL PRIOR TO INSTALLATION.

GENERAL FIRE ALARM SYSTEM NOTES

1. PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS SUBMITTED FOR REVIEW SHALL BE SEALED BY A QUALIFIED LOCAL JURISDICTION REGISTRANT IN FIRE ALARM SYSTEM DESIGN. 2. ALARM INITIATING DEVICES, ALARM SIGNALING DEVICES, AND OTHER FIRE ALARM SYSTEM COMPONENTS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH IFC SECTION 907. 3. WHEN DUCT DETECTORS, REQUIRED BY IMC 606 OR IFC AND IBC SECTION 909, ARE CONCEALED FROM VIEW OR INSTALLED MORE THAN 10 FEET ABOVE FINISHED FLOOR OR IN ARRANGEMENTS WHERE THE DETECTOR'S ALARM INDICATOR IS NOT READILY VISIBLE TO RESPONDING PERSONNEL. AN LED SHALL BE PROVIDED THROUGH THE CEILING LEVEL OR SIGHT OBSTRUCTION AT EACH DETECTOR. ALL DETECTION DEVICES PROVIDED SHALL BE MONITORED FOR INTEGRITY BY THE FIRE ALARM SYSTEM WHERE A FIRE ALARM IS INSTALLED.

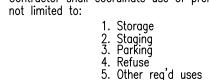


I. GENERAL CONDITIONS / INSTRUCTIONS FOR BIDDERS

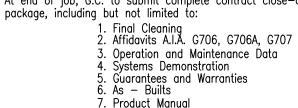
1. <u>GENERAL</u>

contract documents.

- a. The AIA document A201, 2017 edition of General conditions of contract for construction shall be made of and incorporated as part of the
- b. The contract documents shall consist of agreement between Owner and
- Contractor, conditions of contract, drawings, specifications, and addenda c. The A.I.A. "Instructions to Bidders" document A701 latest edition is to
- be used. d. Performance Bond, A.I.A. A311 - latest edition, in the amount of 100%
- of contract amount to be delivered simultaneously w/ executed contract. e. Contractor shall coordinate use of premises w/ owner, including but



- f. All submittals to architect shall be submitted for his review in a timely manner with 5 copies of each item, including but not limited to: . Procedures
 - . Schedules 5. Shop drawings 6. Product Data
 - Samples 5. Change Orders (3 copies)
- q. All temporary utilities shall be the responsibility of general
- contractor and coordinated with owner's requirements. h. At end of job, G.C. to submit complete contract close-out



- <u>General separation of work</u>:
- 1. Terms Owner/Landlord – Phillips Edison & Company Landlord Entity – Naperville Crossings Station, LLC
- Tenant/Owner All In Hospitality
- CEO Todd Hovenden By Tenant/Owner - Supplied by Owner, installed by General Contractor.
- N.I.C. Not in Contract work not in general contractor's scope of work but provided and installed by separate contractor or vendor hired independently by Tenant/Owner. Coordination by General Contractor necessary.
- 2. <u>CERTIFICATE OF INSURANCE</u>

Contractors or any subcontractor may not commence any work until all reauired insurance has been obtained and certificates evidencing such coverage has been delivered to Landlord/Owner. Owner shall secure, pay for, and maintain insurance during the performance of owner's work within the premises the following: Landlord its Partners, Parent Corporations, prime Lessor and their employees and agents as Additional Insured parties, and which shall provide in all policies that Landlord shall be given thirty (30) days prior written notice of any alteration or termination of coverage, in the minimum amounts as set forth below:

Workers' compensation and statuary limits, as required by the state where work is being performed and Employer's Liability with limits no less than \$500,000 each accident or occupational disease.

Provide for additional insured including: 1) Owner; 2) Tenant; 3) Carr Warner Architects, Ltd.

Comprehensive General Liability including Premises Operations, Products and Completed Operations Liability, Independent Contractors Liability, Contractors Liability and Broad Form Property Damage Liability with limits no less than: Bodily Injury and Property Damage Liability

Option 1: \$2.000,000 Each Occurrence

\$2.000,000 General Aggregate 52,000,000 Product & Completed Operations Aggregate 3,000,000 Umbrella Each Occurrence/Aggregate

-or-

Option 2

\$1.000,000 Each Occurrence \$2,000,000 General Aggregate 2.000.000 Product & Completed Operations Aggregate \$4,000,000 Umbrella Each Occurrence/Aggregate

Such insurance shall provide coverage for explosion, collapse, and underground exposures if applicable, and contractual liability coverage, and shall insure Tenant's Contractors and any Subcontractor against any and all claims for personal injury including death resulting therefrom, and damage to property of others, arising from operations under contracts whether such operations are performed by

Comprehensive Automobile Liability Insurance including the ownership, maintenance and operation of any automobile equipment owned, hired and non-owned including

contractors or by any Subcontractor whose acts any of them may be liable.

the loading and unloading thereof in the following minimum amounts: Bodily Injury Liability and Property Damage Liability

- \$2,000,000 each accident
- Umbrella Liability Insurance covering all operations of Contractor with no less than:
- Bodily Injury and Property Damage Liability
- (See Option 1 and Option 2 listed previously) Builders' Risk Completed Value Form affording All Risks of Physical Loss or

Damage on Tenant's Work in the Premises as it relates to the Building in which the Premises are located, naming the interests of Landlord and its agents and emplovees and Tenant's Contractors, as their respective interest may appear, within a radius of 100 feet of the Premises.

II. <u>GENERAL NOTES</u>

- 1. The following specifications are general in nature and allow Contractor to select manufacturers for materials on the basis of cost and availability of such materials unless preselected manufacturers are indicated as items supplied by Tenant/Owner.
- 2. It is understood that the Tenant/Owner may be purchasing and/or installing materials, equipment and furnishings under separate contract. This Contract shall cooperate with the Tenant/Owner to allow the delivery and installation of such materials, equipment and furnishings by other Contractors and suppliers which commence prior to final acceptance of the remodeled space by Owner so as to assure the Owner of the earliest possible completion date.
- 3. The term 'Architect' shall mean Carr Warner Architects, Ltd. 3711 N. Ravenswood Avenue, Suite #104, Chicago, IL 60613, (773) 477-9009
- 4. The Contract Documents are intended to include either directly or by implication all items required for the proper execution and completion of the work. The General Contractor shall provide all labor, material and equipment to complete the work as shown and specified in the drawings.
- 5. During the bidding period the Contractor is solely responsible for the complete coordination of the work and required trades so that no part of the work shall be left in an unfinished state as a result of lack of coordination, disagreements between the parties performing the work, or any other reason.
- 6. The Contractor shall be solely responsible for obtaining access to the site to determine and verify the existing conditions, materials, systems, sizes, dimensions, quantities, layouts, locations, and potential limitations for the performance of the work completed herein.
- 7. It will be presumed that the Contractor has fully acquainted himself/herself with the nature of the work and the limitations of the existing space and that he/she has full and complete knowledge of the work to be done and has included in his/her bid all required labor and materials to complete the work.
- 8. NOTES REGARDING INSPECTION OF EXISTING SITE
- a. While the size and location of new work and equipment in the existing site has been indicated on the drawings as accurately as possible, the Contractor shall adjust his work as required to avoid existing ducts, pipes, conduits, structural members and the like not shown on the plans. Contractor shall adapt his work to meet all actual conditions on the site and in the existing building without additional cost to the Tenant.
- b. Contractor shall inspect the premises and make a detailed examination of all locations where new work is to be installed. Contractor shall verify location of all utilities and shall notify Architect of any discrepancies prior to commencing work. The Contractor shall be responsible for any damages to underground utilities encountered in areas where excavations are indicated and shall repair any such damage at his own expense. Where utility lines must be maintained under building, they shall be properly sleeved through foundation walls. Footings shall be dropped to a depth below utility as required by details on drawings, i.e., pressure zone proximity, sleeve locations, steps, reinforcing, etc., all at no additional cost to Tenant.
- c. After inspecting the premises and examining the drawings, the Contractor shall notify the Engineer and Architect of any defects, discrepancies, problems, uncertainties or clearances required for the installation of new work Contractor shall await resolution prior to proceeding with the work and will be responsible for all changes necessary without additional cost to the Owner if he neglects to notify the Architect.
- 9. No extras will be allowed for claims due to unforeseen or unanticipated conditions which could have been discovered by each Contractor during inspection of the site, during bidding period and prior to the commencement of the work.
- 10. All work is to be performed and installed in compliance with governing local building codes and regulations. The Contractor shall be responsible for obtaining any required building permits for the performance of this work. Permit fees shall be reimbursed by Tenant/Owner.
- 11. All new Construction is to be properly integrated with the site. Refer to civil drawings.

- 12. Patch and repair any damage caused to existing construction resulting from work performed under this contract.
- 13. The General Contractor is responsible for providing temporary bracing, as necessary to ensure the vertical and lateral stability of the entire structure or a portion thereof during construction as necessary. 14. All wall dimensions are face of finish, u.n.o.
- 15 The General Contractor shall be responsible for repair or replacement for any
- damage caused by him or his Sub-Contractors to existing work in place. 16. These drawings are not to be scaled. If the required dimensions or information cannot be found herein, the Architect shall be requested to interpret the
- documents, and his interpretations shall be final and binding. 17. Any proposed substitutions shall be submitted to the Owner and the Architect for review and approval prior to incorporation into the work. The Contractor shall be totally responsible for any changes to details or conditions made necessary by a
- 18. The Contractor shall clean the entire facility to Owner's satisfaction upon completion of the work contracted hereunder, remove all tools, gangboxes, and equipment from the premises. Any leftover materials resulting from the work shall be properly disposed of off-site.
- 19. All work and materials shall be guaranteed against defects for two (2) years from date of substantial completion. 20. General Contractor shall consult and coordinate with Owner's Construction
- Coordinator in all matters of workmen parking, delivery and storage of materials, safety protection, trash removal, use of temporary facilities and other such operations in advance.
- 21. General Contractor shall be solely responsible for all trash removal from the demised premises at the end of working day. Coordinate w/ Owner.
- 22. The General Contractor shall provide blocks, openings, cores, etc. not specifically shown on the drawings as necessary for mechanical and electrical equipment, vents, ducts, and typical details. All cores and penetrations are to be approved by project structural engineer in writting.
- 23. The General Contractor is to build and maintain construction barricades (all necessary lights, sign, etc.) for the protection of the public, as per

local ordinances and Owner requirements & obtain all required permits.

IV. <u>SPECIFICATIONS</u>

DIVISION 1: SHOP DRAWINGS, PRODUCT DATA, SAMPLES 1. All plumbing fixtures, doors/windows, finishes, hardware and miscellaneous items noted

elsewhere shall be selected and/or approved by the Tenant/Owner and Architect unless noted on <u>he plans or in the specifications. Provide shop drawings and sample submittals as noted for</u> <u>chitect and Owner approval.</u> The following items shall be submitted to the Architect and Tenant/Owner for review on a timely basis. Contractor shall waive all claims for additional compensation for extra materials. labor or time needed to complete the work arising from the Contractors failure to submit these items on time. Architect shall be given (15) working days to review all submittals and shall no

- be responsible for delays to the project resulting from a rejection of incorrect submittals. Required material & product literature submittals
- Masonry Units, Pavers, Mortar, and Natural Limestone Tile & Grout colors Plumbing & Electrical Fixtures and Devices
- Toilet Room Hardware and Accessories Mechanical Grilles and Devises Counter Top Finish and Typ
- Doors Frames, and Finish Hardware Exterior Door & Windows Roofing Membrane Systems, Flashing, and Accessorie Sheet Metal Roof Specialities, Gutters, Downspouts, and Scuppers Millwork Samples and Finishes Acoustical Materials

Carpet – Walk Off Pad Paint & Stain Colors Required Shop Drawings:

Structural Steel and Anchor Bolts Cold Formed Metal Framing & Details Roof Insulation Lavout

Metal Awnings & Canopies Stone Profiles and Metal Fasteners

- Storefront Layout & Details
 Fire Protection System and Accessories
- 3. Shop drawings: present in a clear and thorough manner. Title each drawing with Project name and number, identify each element of drawings by reference to sheet number and detail, schedule, or room number of contract documents. Identify field dimensions, show relation to adjacent or critical features or work or products. Submit (3) three copies.
- 4. Product Data: submit only pages which are pertinent, mark each copy of standard printed data to identify pertinent products, referenced to project manual section and article number. Show reference standards, performance characteristics, and capacities, wiring and piping diagrams and controls, component parts, finishes, dimensions, and required clearances. Submit (3) three copies.
- 5. Samples: Submit full range of manufacturer's standard finishes except when more restrictive requirements are specified, indicating colors, textures, and patterns. Submit samples to illustrate functional characteristics of projects, including parts and attachments. Submit (3) sets/copies.

DIVISION 3: CONCRETE

- Note: Refer to Structural Drawings for Concrete Specifications
- 1. Work included: General Contractor to provide all work, labor, materials, and equipment to complete all the cast-in place work as specified herein or shown on these drawings and notes.
- 2. Cast in place concrete
- a. Summary: 1. Cast-in-place concrete, including formwork, reinforcing, mix design,
 - placement, and finishes for the following: a. Foundations and footings.
- b. Slabs-on-grade. . Fill for steel deck. Foundation walls.
- e. Loadbearing building walls.
- f. Equipment pads and bases. b. Refer to Structural drawings and notes for submittals, quality assurance, materials, mixes, installation, and field quality control.
- 3. During progress of work a testing service will mold and lab cure concrete cylinders in accordance with ASTM C31 - compressive strength tests shall be conducted in accordance with ASTM C39.
- 4. Reference standards all work to comply with ACI, ASTM and local code
- specifications and recommendations.
- General Contractor to provide all reinforcing steel &/or wire mesh where indicated on drawings or as required. Grade 60
- General Contractor to provide vapor barrier below all new concrete in
- contact with earth. 7. Refer to Structural sheets for additional spec.'s and notes (If applicable.)
- b. Steel angle corner guards. c. Prefabricated steel plate tread and riser stairs, landings, and pipe rails.
- d. Miscellaneous framing and supports for overhead doors
- DIVISION 4: MASONRY
- Note: Refer to Structural Drawings for Masonry Specifications

degrees F. and maximum of 160 degrees F.

). Tool ioints to match Architect approved profile.

and until their design supports are in place.

Keep all brick clean from mortar.

11. Set all brick plumb, level and true.

painted, flashed, and weeped.

building to approved drains.

mortar or arout mix.

thickness.

- 1. City of Naperville, Adopted Standards: Building Code Requirements for Masonry Structures: ACI 530-92/ASCE 5-92/TMS 402-92 2. Concrete masonry units shall be normal weight block conforming to ASTM C-90 with a unit strenath of 1500 psi unless noted otherwise on plan. Face brick shall conform to ASTM C216, type SW, with a five brick average minimum compressive strength of 3000 psi, individual 2500 psi.
- 3. Mortar to be type M or S and joints are to be tooled concave. Mortar shall conform to ASTM C270.
- 4. Brick veneer anchors to be placed vertically at 16" o.c., horizontally at 24" o.c. Veneer Anchors: 2-piece adjustable masonry veneer anchors allowing vertical or horizontal differential movement between veneer and wall framing parallel to plane of wall but resisting tension and compression forces perpendicular to it, for attachment over sheathing to studs, and acceptable to authorities having jurisdiction. 6. Provide fabric flashing over exterior steel lintels with weep holes at 24" on center
- with cotton rope wick. 7. Use clean sand, well graded and free of any deleterious substances. Use only potable water. All work shall be done in a first class manner by experienced mechanics skilled in their trade.

Cold weather installation: When air temperature is below 40 degrees F. but above

25 degrees F., sand and mixing water shall be pre-heated to minimum of 70

12. Set all units, both bottom and ends, in full bed of mortar with joints uniform in

Architect/Owner with affidavits from an approved testing laboratory certifying

14. Calcium chloride and/or admixtures containing same shall NOT be included in

15. Masonry wall shall be adequately braced against wind during their erection

16. Provide lintels over all opening in masonry work. All lintels shall be primed,

17. Provide weep hole mesh vents along the base of all cavities and above steel

18. Provide flashing at the base of all cavities. Extend flashing up 12" on back

remove grout, stains, and excess mortar. Direct run-off wash away from

for Architect's and Tenant/Owner approval. Construct a sample wall panel

approximately 48 inches (1200 mm) long by 48 inches (1200 mm) high to

20. Provide face brick as specified in construction documents. Provide sample

demonstrate aesthetic effects and qualities of materials and execution.

lintels in masonry wall. Space weep holes 24" o.c. with polyproplene mesh

13. Prior to delivery of masonry units to the job site, furnish the

that all units conform to their respective ASTM requirements.

face of the cavity. Overlap adjoining sheets 2" horizontally.

19. Wash masonry following installation with a detergent based solution to

STONEWORK

1. Provide all work and materials necessary to complete the work. 2. Comply with the rules and recommendations of the Indiana Limestone Institute of America, Inc. handbook, latest edition. 3. Stone thickness shall be minimum 2-1/2".

- 4. Cover materials while stored and cover work in progress at site at end of each day's work. 5. Limestone contractor shall provide and design all stonework anchors. All stonework shall be properly and securely anchored to building structure. All anchors shall be fabricated with non-corrosive materials.
- 6. Install work to direct water away from building. 7. Provide minimum of four mechanical anchors per stone block or panel. 8. Provide weep holes at base of cavities to evacuate moisture.
- 9. Mortar used for setting of stonework shall be non-staining. 10. Protect all work from moisture and/or freezing during installation. 11. Verify all existing conditions, dimensions, and materials in field. Report any discrepancies to Architect in writing at once.
- 12. Quirk miter joints shall be 3/8" maximum. 13. Ease all exposed stone corners. 14. All exposed stone faces and edges shall be smooth unless noted otherwise.
- 15. Replace damaged or stained stonework at no cost to Owner. 16. Verify all conditions in field. 17. Submit shop drawings to Architect for review prior to fabrication of stonework.

DIVISION 5: METALS

supports

- Note: Refer to Structural Drawings for Structural Steel Specifications
- 1. Work Included: Provide all labor, material and equipment to complete the installation of metal elements as shown on the drawings and specified on structural drawings. (Refer also S-Sheets for additional specifications) a. Loose bearing and leveling plates, loose steel lintels, shelf and relieving angles, misc. framing and supports, misc. steel trim, floor plate and
- 2. General contractor to provide miscellaneous steel sections shown on
- drawings, including but not limited to fasteners, clips, steel sections. 3. All welding in field shall be completed by certified welders. Grind smooth
- all field welds and reapply rust inhibitive primer. 4. All work to comply with AISC and ASTM specifications and recommendations steel plates, shapes, and bars — ASTM A 36, cold formed steel tubing -ASTM A 500, hot formed steel tubing – ASTM A 501, steel pipe – ASTM A 53. sched. 40
- 5. Apply rust inhibitive primer to all shop fabricated steel.
- 6. Provide fasteners complying with ASTM and ANSI requirements for fabrication
- 7. Provide nonshrink, nonmetallic grout at leveling plates.
- 8. Fabricate assemblies in shop to extent possible to minimize field splicing.

DIVISION 5a: STRUCTURAL STEEL AND STEEL ROOF DECK

- 1. Work included: Contractor to provide all work, labor, materials, and equipment to complete all the steel work as specified herein or shown on these drawings and notes.
- 2. Summary: (Refer to Structural drawings for extent of work) a. Beams, girders, bracing, base and bearing plates, leveling plates, shims, shear connectors.
- b. Entry canopy framing and anchors.
- c. Composite steel floor deck and steel roof deck.
- 3. All work to comply with AISC and ASTM specifications and recommendation
- 4. All welding in field shall be completed by certified welders. 5. General Contractor to employ a testing agency to inspect materials and

<u>STEEL STUD FRAMING NOTES</u>

perform tests.

Refer to Structural Drawings for Specifications

- 1. Comply with the recommendations of the 'gypsum construction handbook' latest edition for metal stud framing work, unless more stringent requirements are specified in the contract documents.
- 2. Provide fire treated wood buck blocking at all doors and window openings.
- 3. Provide double 20 gauge metal studs at all door jambs.
- 4. Rigidly attach all framing to building structure. provide top track slip joints for expansion joints as required or noted.
- 5. All steel studs and framing members shall be of the type, size, gauge, and spacing shown on the drawings, and shall be manufactured by Unimast corporation. Clark steel framing systems, or equal.
- 6. All steel framing members shall be designed in accordance with the current edition of american iron and steel institute (aisi) "specification for design of cold-formed steel structural members"
- 7. All framing members shall be formed from corrosion-resistant steel, corresponding to the requirements of astm a446, with a minimum yield strength of 40 ksi for sj studs, 33 ksi for cr runners.
- 8. Studs: install, align, and securely anchor continuous tracks to supporting structure. squarely seat studs against webs of top and bottom tracks. space studs as indicated plumb, align, and fasten both flanges of studs to top and bottom track.
- 9. Install framing and accessories level, plumb, square, and true to line, and securely fasten. temporarily brace framing.
- 10. Fastening of components shall be with self drilling screws of a size sufficient to ensure the strength of the connection. wire tying of components shall not be permitted. 11. Splices in studs shall not be permitted.
- 12. Layout wall prior to erection of framing. report discrepancies or deviations to
- architect in writing at once. 13. Construct wall partitions to resist bending and rotation about the minor axis.
- 14. Diagonally brace studs walls as required to provide frame stability and lateral load stability.
- 15. Where finishes are applied to only one face of framing, provide horizontal backer brace to mid-height screwed to all studs.

DIVISION 6: WOOD/PLASTICS

- A. CARPENTRY/CABINETRY/MILLWORK
- 1. Work included: Labor, materials, and equipment to complete all the carpentry work as shown specified herein or implied from these drawings and notes. including but not necessarily limited to the following:
- a. Rough Carpentry 1) Framing, blocking, furring, rough lumber curbs nailers, sleepers, sheathing, subflooring, wall backing, and miscellaneous carpentry items. ALL WOOD TO BE FIRE RETARDANT TREATED
- b. Finished Carpentry
- 1) Installation of doors, windows. Installation of finished and temporary construction hardware.
- Installation of toilet accessories
- Brackets, shelving as shown on drawing or as required.) Bars and bathroom countertops.
- 6) Booths & banquettes.) Cabinetry millwork.
- 8) Wainscotting.
- c. Caulking Rough Hardware.
- 2 Products a. Wood Eleoring
- 1) Refer to B for moisture barrier. 2) See sheet A9.2
- 3) Provide 3/4" plywood underlayment per details (tolerance or _____1/8" in 10' level). Provide 1x sleepers.___
- b. Paneling 1) See sheet A9.2
- 2) Fabrication in accordance with AWI, section 500, or 400-8 custom grade guality standards. 3) Install with no exposed joints visible.
- c. Trim to be clear, plain sawn, premium poplar, AW1 Grade 1 refer to drawinas.
- d. Laminate: Nema standard LD-1, Class 1, high pressure decorative laminate, color as selected by Architect. Surface sheet .05" thick
- with .02" phenolic backing. 3. General Contractor shall submit shop drawings, wood samples and
- stains for approval by the Architect prior to commencement of work. 4. All materials, workmanship and installation shall comply with all
- applicable (City, State, and National Building Codes and Ordinances). <u>-5. Wood flooring installation - Refer to B</u>

- 6. Perform all work as shown on the drawings or inferable therefrom. Provide miscellaneous component parts required to assemble and support the work to ensure a complete total installation. Include all required parts such as anchors, braces, attachments, clips, bolts, hardware and similar not provided by Owner.
- 7. Provide preinstallation of blocking with the partitions, exact locations of any such supports are to be coordinated by the Contractor based upon the cabinetry construction. Blocking to be fire treated wood.
- 8. Field measure the exact spaces available for installation of millwork prior to purchase or fabrication of any items to verify dimensions
- and configurations. 9. Lumber in general: Grade: appearance grade in accordance with AWI section 100 Grade II. New, dry sound, undamaged, well seasoned, free from marks of a recognized organization whose regular business it is to establish lumber grades. when installed, exposed lumber shall have no blemishes, objectionable marks, stains or scars. Provide fire treated lumber as shown on plans. Comply with regulations of American Lumber Standards Committee (ALSC) Board of Review. a. Plywood subflooring to comply with PSI, APA stud—1 flooring.
- b. Metal framing to comply with AISI and ASTM A 446.
- 10. Rough Lumber: 'Standard' Grade Douglas Fir-Larch conforming to all standards set by the Western Wood Products Assoc.
- 11. Construction Sealant: Verify with Architect type and color. Caulk all openings, cracks, frames, gaps, windows, obtrusions etc. Caulking shall remain elastic, non-hardening and firmly adhesive. 12. All nailing, bolting and other connection to conform to 'Techniaues of
- House Nailing U.S. Government Publication' to the recommendations of the individual standards agencies specified herein. Fasteners in finished material to be recessed and filled.
- 13. Rough Hardware: All bolts, nuts, expansion shields, lag screws and bolts, toggle bolts, wood screws, nails, staples and any other miscellaneous hardware shall be supplied by the carpenter contractor.
- 14. When structural strength is impaired by cutting, drilling or by inherent defects, replace or reinforce members in acceptance manner. Architect is to verify repair that is done. 15. Erect framing and furring true to line, plumb, level and square with
- proper fastening and bracing.
- 16. Provide solid blocking for shelving, cabinets, accessories, and other surface mounted work.
- 17. Exposed trim work, use lengths as long as practical in order to minimize
- 18. Set exposed nail heads and/or screws to receive putty.
- 19. Sand wood with the grain. No coarse sandpaper marks, hammer marks, or other imperfections will be accepted.
- 20. Set frames plumb, level, and square. Brace until firmly in place. Use at least three shims on each side. Shim jambs firmly at butts and striker plates.
- 21. Apply finish hardware as recommended by hardware manufacturer and as required. Upon completion, adjust and lubricate hardware for proper operation.
- 22. Join lengths of running trim only where solid fastenings can be made. Miter exterior corners and cope interior angles.
- 23. Submit shop drawings on all millwork items.
- 24. Minor items and accessories reasonably inferable as necessary to the completion shall be provided whether or not they are specifically shown or specified.
- 25. All work shall be laid out by this contractor at the building in consultation with the Owner's representative and those installing work under other trades. This Contractor shall cooperate to eliminate conflicts between his work and that of others, and shall be responsible for all conflicts between his work and that of others.
- 26. Labor shall be performed rapidly, consistent with the project schedule, and in a workmanlike manner; to the satisfaction of the Architect.
- 27. Contractor is to guarantee all work and material for one year after completion against all defects of the materials, equipment and workmanship.

28. This Contractor is responsible for clean up of any left over material or rubbish caused by installation of this work. All such material shall be removed from the job site daily or as requested by the Owner.

- DIVISION 7: THERMAL MOISTURE A. SEALANT AND WATER PROOFING NOTES
- 1. Work Included: Provide all labor, material and equipment to complete
- the sealant and water proofing installation as shown on the drawings and specified on drawings. 2. Carpenter Contractor to be responsible for all caulking and sealing.
- 3. Caulking compound for joints around frames of doors and window openings.
- 4. Interior caulking shall be done at all joints, crevices, cracks, openings and obtrusions as required. Verify type and color of interior caulking
- with Architect. Provide backer rod as required.
- 5. Clean joints and spaces to be caulked, free of dust, dirt, oil, grease and dampness.
- 6. Apply caulking compounds with pressure gun. Fill joints solidly and smoothly, without thin edges. Remove excess compound and leave adjoining surfaces clean.
- 7. This contractor is to guarantee this work to be free from defects of material and workmanship for two years from date of final acceptance of work.
- 8. Mop in flashing at all floor drains and penetrations.
- Water proofing membrane for tile bed setting/waterproofing;
- a. Wall Waterproofing: Tile to be on setting bed of maipai kerplastic liquid polymar mix with maipai kerpound to achieve waterproof membrane. b. Tile Floors: (Where indicated on drawings) Laticrete system #9235
- or equal compatible with thinset. Run membrane min. 12" up wall.

a. Joint Cleaner: Proivde type recommended by sealant manufacuter.

c. Bond Breaker Tape: Polyethylene tape or other plastic tape as

d. Sealant Backer Rod: Compressible rod stock polyethylene foam, or

e. Expansion joints: Provide isolation membrane over all expansion joints.

Work Included: Provide all labor, material and equipment to complete

3. Exterior Windows/Doors: Batt insulation loosely stuffed between frame

4. Interior and Exterior Masonry Walls: Rigid insulation/Batt insulation

Interior Frame Walls: Insulate both sides with unfaced acoustical

6. Safing: Mineral fiber safing at pipes, duct and all penetrations or

openings in fire rated walls and floors. Provide also at intersection

8. Vapor Barrier: It is intent of spec's that a continuous vapor barrier

be constructured on inside face of framing members at exterior

9. Floor/Ceiling Separation: Rigid sound board insulation as indicated.

1. Work included: Contractor to provide all work, labor, materials, and

2. Summary: Clear water repellent coating on vertical concrete unit

3. Provide water repellents with the following properties:

C 140. Stone – ASTM A 97.

specimens, ASTM E 96.

equipment to complete all the work as specified herein or shown on

masonry and stonework surfaces. Refer to elevations for extent of work.

a. Absorption: minimum 90% reduction of absorption after 24 hours

b. Water-vapor transmission: maximum 10% reduction in rate of

vapor transmission in comparison of treated and untreated

in comparison of treated and untreated specimens, CMU - ASTM

walls to reduce condensation. Tape all joints, ruptures of insulation

installation of insulation as shown on the drawings and specified on

other flexible permanent durable non-absorptive material as

recommended for compatibility with sealant by the sealant

2. Exterior Frame Walls: Kraft or foil faced batt insulation.

insulation as indicated on drawinas.

of masonry and roof decks.

7. Insulate all pipes, ducts in ceiling.

or provide 6 mil vapor barrier.

on these drawings and notes.

recommended by sealant manufacturer. Provide self-adhesive tape

b. Joint Primer/Sealer: Provide type recommended by sealant

- c. Watertest membrane at all penetrations. 10. Installation of moisture barrier at wood floor.
- a. Per manufacturer's direction.

11. Miscellaneous Materials:

manufacturer.

where applicable.

manufacuturer.

B. INSULATION

drawinas

and stud.

as noted.

C. WATER REPELLENTS

c. Water penetration and leakage through masonry: maximum 90% reduction in leakage rate in comparison of treated and untreated

specimens, ASTM É 514.

manufacturer's products.

for this type of application.

corners unless noted otherwise.

D. ROOFING AND ROOF ACCESSORIES

<u>Brandon @ (219) 477-8222</u>

5. Performance Requirements:

applying/designating finishes.

and recommendations.

the following:

parapet walls

16 oz.

A. HARDWARE

DIVISION 8: DOORS & WINDOWS

each set.

Stops: Ives 407

B. DOORS/GLAZING:

all roof penetrations

of an exterior wall.

or rubberized asphalt.

METAL COPING NOTES

FLASHING NOTES

2. Summary:

on these drawings and notes.

PORTLAND CEMENT STUCCO

ASTM G 53.

- d. Durability: maximum 5% loss of water repellency after 2500 hours of weathering in comparison to specimens before weathering,
- e. Permeability: minimum 80% breathable in comparison of treated
- and untreated specimens, ASTM D 1653. 4. Engage an experienced applicator who employs only persons trained nd approved by water repellent manufacturer for application of
- 5. Comply with the manufacturer's written instructions for application. 6. Warranty period shall be 5 years from date of Substantial Completion. 7. Provide a product recommended by the substrate manufacturer/supplier

1. All Portland cement stucco shall conform with ASTM C150, metal reinforcement #FS-QQ-L-101a, metal accessories ANSI A42.3 and building paper #FS-UU-B-790 Furnish and install all stucco work completely including grounds, screeds & casing. 3. Provide self-furring diamond mesh 1 ½", 17 GA zinc coated lath on heavy duty building paper. Inspect paper for proper laps, tears, nail punctures, etc. prior to plastering. Provide 24 GA galvanized screeds, control joints, and reveals as indicated or required. . Provide 24 GA galvanized metal drip screeds at all foundations and overhangs. 6. Provide square beads at all edges, openings, penetrations and corner beads at all

- . Provide 3—coat Portland cement stucco application over frame construction totaling at least 7/8" thickness. Finish coat texture and color to match approved sample. 8. Finish texture shall be steel troweled to match approved sample. Submit color and texture sample to Owner and Architect (24"x24") for approval. 9. Protect stucco and substrate from excessive moisture, freezing temperatures or frost-filled surfaces. All surfaces to be clean and structurally sound. Apply strictly according to manufacturer's specification to achieve approved finish.
- NOTE: Any roof penetrations need to be coordinated with landlord's roofing <u>company: South Shore Roofing - contact Dave @ (630) 536-4544 or</u>
- 1. Work included: Contractor to provide all work, labor, materials, and equipment to complete all the roof work as specified herein or shown

a. Fully adhered thermoplastic polyolefin (TPO) roofing system for torch down application roof system as manufactured by GAF, Carlisle SynTec, Firestone Building Products or approved equal. Tensile Strength, 200 psi in compliance with ASTM 2523. Thickness, 60 mils. minimum not including cap sheet. Reinforcing polyester or glass fiber polyester mat. Face color, WHITE

- b. TPO Roof flashing, counterflashing, cants, and trim. c. Roof specialties including copings, edge stops, metal fascia, gutters scuppers, downspouts, reglets and counterflashing. d. Roof accessories including curb and equipment supports, prefab
- roof flashing, roof drains, and roof hatch. 3. Engage an experienced installer who employs only persons trained and approved by roof manufacturer for application of manufacturer's products. 4. Standard roofing manufacturer's warranty period shall be 15 years from
- date of Substantial Completion. Roofing installers warranty shall be 2 years. a. Install a watertight, 60mils. single-ply roofing and base flashing roofing system
- with compatible components that will not permit the passage of liquid water and will withstand wind load, thermally induced movement, and exposure to weather without failure.
- b. Fabricate and install sheet metal and TPO flashing and trim, roof specialties, and roof accessories to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failing. All fabrications to comply with SMACNA recommendations.
- 6. Provide roofing materials with fire test response characteristics per M test methods when tested by a governing authority approved testing agency and bearing the marking of that agency.
- 7. Materials: Provide metal, trim, and accessories that are compatible
- with one another and approved for use by the product manufacturer. 8. Comply with the manufacturer's written instructions for application. 9. Comply with NAAMM's metal finishes manual for recommendations on

1. Provide zinc-coated steel, commercial guality with 0.20% copper, ASTM A 526, G90 hot-dipped galvanized, 20 gauge thickness. Solder to be 50-50 tin/lead, ASTM B32, with rosin flux. Fasteners to be same metal as metal coping or other non-corrosive metal as recommended by sheet manufacturer. Provide sheet metal clips, straps, anchoring devices and similar accessory units as required for installation of the work.

- 1. Flashing is hereby defined as the system of impervious sheet related anchors provided in intercept and control the flow of moisture and/or water away from the building interior spaces or interior cavities. All flashings shall provide a weather-tight and watertight assembly and shall have a non-corrosive finish. 2. All sheet metal and flashing shall be detailed, fabricated, and installed in accordance with the SMACNA "architectural sheet metal manual". anchor units of work securely in place by methods indicated, providing for thermal expansion of metal units. 3. Wherever flashing is to be provided as an accessory to a manufactured system, comply with manufacturer's requirements
- 4. Flashing shall be provided at locations including but not limited to base of masonry cavities
- all roof edge, ridge, and valley conditions • all window heads, window sills, door heads, and door sills. • all gutters and scuppers.
- at top of any construction which projects more than 1" from face 5. Structural sill angles or ledges which support exterior finishes or veneers. PVC flashing is not permitted. 6. Concealed flashing shall be galvanized sheet metal, stainless steel,
- 7. Avoid the possibility of galvanic action between dissimilar metals. Provide compatible metals or separators as required. provide for separations of non-compatible metals with concealed coatings on substrates at locations of contact with bituminous coating or other permanent separation as recommended by manufacturer. 8. QII exposed metal flashings shall be 22 gauge minimum. copper
- shall conform to ASTM specifications B370 and B152 temper H00 9. Lap all joints 2" minimum. Install flashings for consistent straight edge where exposed. Finished assemblies shall be free from dents, "oil canning", scratches or other defects.
- 1. Work included: General Contractor to provide all work, labor, materials, and equipment to complete all the work as specified herein or shown
- on these drawings and notes. 2. Install all required hardware for complete operation, Install per manufacturer's instructions, and adjust all installed hardware to
- manufacturer's specified tolerances. 3. Refer to A9.1 for hardware schedule.
- 4. Furnish (3) three keys for each lock, twelve (12) master keys for
- 5. Master keying: Factory key, master key and grand master key. All lock and cylinders to existing system. 6. General Contractor to verify doors provided by Tenant and provide
- hardware based on schedule as required. General Contractor to verify that existing hardware on existing and relocated doors are operable and appropriate to function of room.
- Hardware finish in non-public areas to be US26D. Public areas to be US26D (verify with owner).
- 8. Suppliers (or approved equal), refer to sheet A9.1 for hardware schedule. Hinges: Hager Locksets: Schlage (L-Series mortise extra heavy duty)
 - Closers: LCN Smoothee 4010 Series Panic Devices: Yon Duprin Series 33, Series 99 for receiving door Push and Pull_Plates: by Owner
 - Weather-stripping and thresholds: Reese Door Silencers: Glynn-Johnson #GJ64
 - Kick Plates: .05" thick satin stainless steel
- 1. Work included: General Contractor to provide all work, labor, materials, and equipment to complete all the work as specified herein or shown on these drawings and notes. 2. Provide glazing, aluminum, storefront, hollow metal doors and solid core wood doors as indicated on door schedules, details. Refer also Section XVII
- 3. Provide welded metal door (18 ga.)and steel frames (16 ga.) with S.D.I. 100 for minimum materials and construction requirements. (Refer door schedule). 4. Provide solid core wood doors and frames as indicated on door schedule.
- 5. Provide Frostlite 1/4 opaque glass for doors, cabinets where indicated on drawings.
- 6. Mirrors all interior mirrors to be 1/4" thick.
- 7. Provide tempered glazing where required by code or as indicated in drawings. 8. Provide 1" insulated window type low E clear glazing.
- 9. Provide 1/4" uninsulated clear where indicated
- 10. Provide all glazing accessories, blocks, spaces etc., necessary for proper installation as recommended by the manufacturer.
- 11. All work to comply ANSI, ADA, and I.B.C.
- 12. Provide metal access panels w/ frame suitable for material being installed.

- C. ALUMINUM STOREFRONT
- 1. Work included: Provide all labor, material and equipment to complete aluminum storefront installation as shown on drawings and specified, including but not limited to:

c. Woodwork backpriming

1st coat: Wood Undercoater

1st coat: Primer Sealer

1st coat: latex primer

2nd coat: semi-gloss

f. Unit masonry

g. Ferrous Metal

3rd coat: same as second coat

3rd coat: same as second coat

3rd coat: same as second coat

1st coat: Red Metal Primer

h. Epoxy — high gloss enamel

2nd coat: semi-aloss topcoat

3rd coat: same as second coa

1st coat: Ultra Hide Latex Block Filler

remove all dirt, grease, oil, and scale

i. Stains: Paneling, Doors, Trims - Satin Finish

color per Architect's sample.

1) 2 - 3 coats stain brush applied and wiped immediately

with soft cotton rags or as necessary to achieve

Wait 24 hours after final staining. 3 coat process,

Natural finish interior – wood trim, wood doors and frames,

1) Seal-Crete concrete floor/driveway sealer (SK, CFDS)

by Seal-Crete, Inc., 1-800-323-7357 or equal.

all exposed wood paneling, planking and plywood (N.I.C.)

and proceed work only when conditions are corrected.

woodwork smooth after each every coat except the last coat.

8. Apply materials according to manufacturer's instruction and free

completion against all defects of material, and workmanship.

a. Material as indicated in finish schedule sheet A9.1.

a. Vinyl Faced & Acoustical Tile: USG, Armstrong.

straight, true to line, with exposed surface flush and level.

be reported immediately to the Architect for relocation.

b. Spray on acoustical: K—13 'fc' or equal.

c. Grid Donn's standard 15/16".

drawings for further specifications.

2. Fire extinguishers per Fire Department requirements by G.C.

3. Custom stainless steel items. Refer drawings for scope.

b. Toilet partitions and accessories per drawings.

by owner cables. Verify with MEP sheets.

FIREBLOCKING and FIRESTOP SEALANT NOTES:

ROOF SPACES. MATERIALS WHICH MAY BE USED ARE:

1. Applications of firestop systems include:

5. Provide item cuts, shops on all specialty items for approval.

1. Art & artifacts to be by owner.

4. Stainless steel corner guards.

in or on the ceiling.

on all ceilings.

DIVISION 10: SPECIALTIES

IV. P.O.S. / SOUND SYSTEM

partitions

containing fire doors.

rated floors or walls.

-DRYWALL COMPOUND

-CEMENTITIOUS MATERIAL

-FIRESTOPPING CAULK

• Tremco Fyre-Caulk

PRIOR TO ORDERING OR FABRICATION.

-UNFACED BATT INSULATION

-BLANKETS OF MINERAL WOOL

-THERMAL FIBER/FIRE SAFE BATTS

all penetrations of rated assemblies by:

HILTI # CP 606 Flexible Firestop Sealant

Minimum 1 hour rating must be maintained.

ALL FINISHES ARE LISTED IN THE FINISH LEGEND ON SHEET A9.2 and A9.3

DESIGNATIONS DO NOT ALLOW FOR AN APPROVED EQUAL TO BE SUBSTITUTED.

walls.

from runs and sags. Apply no paint, varnish, or enamel until

d. Fire retardant treatment if indicated. Class I rating.

2) All sealers shall be brush applied with satin finish.

oil based polyurethane per manufacture's rec.

c. Three coats at casework. (refer #2 above)

a. First coat shall be sanding sealer.

b. Fill all pores, grains smooth.

paneling. Class I flame spread.

surface, to assure a smooth finish.

before proceeding with additional coats.

weather or until surface is dry.

preceding coat is dry and hard.

approval. Prior to any painting/staining.

E. ACOUSTICAL TREATMENT/CEILING SYSTEM

2. Manufacturer's

7. Wood Flooring – Not Used

k. Concrete Slab Sealer

2nd coat: Spred Ultra Semigloss Enamel

2nd coat: Spred Ultra Semigloss Enamel

d. Gypsum Wallboard – latex eggshell enamel finish

2nd coat: refer to finish legend on drawings

e. Gypsum Wallboard – semi-gloss polyamide epoxy finish

- a. Doors. b. Glazing.
- c. Frames.
- d. Hardware. 2. Products:
- 3. Finishes: matte black aluminum.
- 4. Glazing: 1" insulated clear 'E' glass.
- 5. Verify wind load requireds with manufacturer.
- Install per manufacturer's instructions.
- Install flashing, weeps etc. as necessary <u>DIVISION 9: FINISHES</u>

A. PARTITION NOTES

- 1. All materials, workmanship and installation shall comply with all
- applicable codes and ordinances. 2. Work included
- Provide all labor, material and equipment to complete installation of gypsum drywall, metal studs, taping and sanding. Use materials as manufactured by U.S. Gypsum Co. or approval equal as follows:
- a. Gypsum wallboard at interior partitions, 5/8" tapered edge sheet rock panel, except as noted otherwise.
- b. Gypsum wallboard at ceilings, 5/8" tapered edge sheet rock panel, except as noted otherwise.
- c. Gypsum wallboard at all wet (toilet room, bar and kitchen) walls to be 5/8" moisture resistant green board unless otherwise noted. Wallboard on all dishroom, cookline and mop room walls to be 5/8" Durock U.N.O.
- d. Fasteners, 1-1/4" type W bugle head wallboard screws. Glue and screw all drywall.
- e. Corner bead (outside), Dur-A-Bead #103.
- f. Corner bead (inside), Perf-A-Tape.
- g. Casing bead, No. 200-A USG metal trim. h. Furring channels, USG metal furring channels 26 GA. galvanized steel.
- i. Reinforcing tape, Perf-A-tape.
- j. Joint compounds, USG joint compounds.
- k. USG metal studs with minimum gauge 22 galvanized steel. 3. All drywall shall be screw fastened to the studs. All drywall joints are to be taped and floated smooth with joint compound, sanded and made ready for painting. The finished surfaces shall be
- reinforced with perforated metal beads, screw fastened through drywall to the studs and floated level. 4. Minor items and accessories reasonably inferable as necessary to
- complete the drywall work shall be provided whether or not they are shown or specified. 5. All partitions shall be constructed of galvanized steel studs
- where noted and avpsum board drywall, where indicated as manufactured by USG Corporation or equal, and constructed to the thickness and configurations shown on the drawinas.
- 6. Studs extended up to the structure above shall be installed as required to allow for vertical deflection and movement of the structure above.
- 7. Provide acoustical, fiberglass, batt type insulation in partitions where shown on drawings. All voids between studs shall be filled full height of the partitions without gaps vertically or horizontally.
- 8. Labor shall be performed rapidly, consistent with the project schedule, and in a workmanlike manner, to the satisfaction of the Architect.
- 9. Contractor is to guarantee all work and material for one year after 10. This Contractor is responsible for clean up of any left over material or rubbish caused by installation of this work. All such material shall be removed from the job site daily or as requested by the Owner.
- completion against all defects of materials, equipment and workmanship. 11. General Contractor shall be responsible for all bracing of partition walls and door openings as required.
- 12. All new partitions engaging exterior walls or columns shall be jointed with resilient fastners. A 2" thick compressible neoprene gasket shall be installed between metal stud and existing construction.
- B. TILE NOTES
- 1. Work included: Provide all labor, material and equipment to complete the tile installation as shown on the drawings and specified on drawings.
- 2. Products: Refer to sheet A9.3 and A9.4 for product specification.
- a. Quarry tile. b. Mosaic ceramic.
- c. Ceramic. d. Vinyl.
- 5. Wall tile installation to comply to TCA Method F142-93, organic adhesive, and floor tile to comply to TCA Method F142-93 and TCA Method for mudset installation (if required due to floor elevations or as noted).
- 4. Contractor to verify grout colors with Architect. Submit samples. 5. This Contractor is responsible for preparing all surfaces to accept tile finish. See waterproofing membrane under Sealant & Waterproofing
- notes to be installed where indicated on sheet A12.1 and A12.2. 6. Do not apply adhesives or mortar setting beds until necessary grounds, hangers, anchors, and other items to receive plumbing have been properly
- installed. Coordinate work with other trades. 7. Tile to be applied plumb and true, all grout joints are to be of equal
- 8. Layout tile in each area in such a manner as to minimize the cutting of tile.
- 9. Grout: Wall tile L&M dry cure as manufactured by L&M Corp. or approved eaual. Quarry tile floor - arout with L&M acid R as manufactured by L&M Corp. or approved equal. Grout after tile has set for at least 24 hours. Saturate joints with water and force grout into joints to full depth. Take care not to scratch glazed tile. Remove surplus grout before it hardens and leave face of tile clean.
- 10. Upon completion of tile work, clean finish surface thoroughly. Do not use acid solution on glazed tilework. 11. Labor shall be performed rapidly, consistent with the project schedule,
- and in workmanship manner, to the satisfaction of the Architect and
- 12. Contractor is to guarantee all work and material for one year after completion against all defects of materials, and workmanship.
- 13. This Contractor is responsible for clean up of any left over material or rubbish caused by installation of this work. Or as requested by the Owner.
- 14. Make all floor transitions level and true. Proivde leveling latex compound as necessary on uneven flooring. Provide concrete for deeper patches.
- 15. Provide samples of all tiles, stones, quarry, ceramics and patterns to architect for approval.

3. Install per Manufacturer's directions.

Steel doors and frames

Wood Wainscotting.

Miscellaneous Metals.

1. Colors as selected by Architect.

Benjamin Moore

Sherwin Williams

1 coat interior primer

b. HMD & Frames:

Columns.

D. PAINTING/STAINING NOTES

A. Items:

B. Materials:

C. FIBERGLASS REINFORCED PLASTIC WALL PANELING

a. Caulk FRP at base, ceiling, and door intersections.

Miscellaneous Millwork & Running Trim.

Wood doors & frames
 Brick — as noted in finish schedule

a. Acceptable paint manufacturers:

Rust-Oleum or approved equal

2 coats topcoats. (semi-gloss)

Faux painting as indicated. -BY OWNER

- 1. (FRP) to be Kallite pebble white or white Kemlite .09" thick white by Kemlite Corp. Submit sample for Architect's review.
- 2. Provide all necessary adhesives, fasteners, vinyl molding and trim, and rivets.

1. Work included: Labor, material and equipment to complete all painting

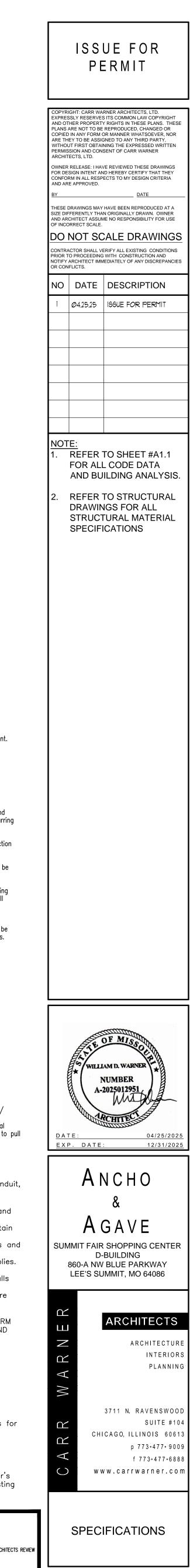
and notes, including but not necessarily limited to the followina:

Interior and exterior painting as specified on drawings

Products: Refer to sheet A9.3 and A9.4 for product specification.

Gypsum wallboard and ceiling, soffits as specified on drawings

and staining as shown, specified, herein or implied from these drawings



2. Stain rating at finish interior - wood trim, wood doors and frames, paneling. Class II flame spread. Wood - fire retardant treatment -3. Do not begin work on surfaces that are unsuitable for proper finish of work, notify Architect and General Contractor of unsuitable surfaces 4. Fill voids between wall surfaces and wood or metal trim, or scribed edges with, putt, caulking material, or spackle, as required by the 5. Clean, hand-sandpaper, and dust off all woodwork. Putty nail holes cracks and defects in woodwork after first coat. Sandpaper Insure that surfaces are free of dust, dirt, and other imperfections

6. No exterior staining or painting in rainy, damp, high humidity

9. Contractor is to guarantee all work and material for one year after 10. This contractor is responsible for clean up of any left over material or rubbish caused by installation of this work. All such material shall be removed from the job site daily or as requested by the 11. All surfaces to be cleaned, dry and clear of blemishes, dirt etc. 12. Provide paint and stain samples of all materials to architect for

1. Install suspended ceiling system as shown including all necessary hangers, framing, perimeter control joints and structural reinforcement.

3. Coordinate the spacing of all hangers, carrying channels, runners and molding with the location of electrical fixtures and other items occurring 4. Tiles to be installed so grain lines of tile are running in same direction 5. Following completion of acoustical ceiling installation, all joints shall be

6. If ceiling diffusers, light fixtures or other elements on or above ceiling cannot be located as shown on the drawings, such interference shall 7. Ceilings as noted on drawings to be treated w/K-13 'fc' spray-on

ceiling system, 1" thickness, and color to be white. Installation to be by a recommended installer and as per manufacturer's specifications. Provide samples (prior to ordering) to architect for approval. NOTE: Refer to room finish schedule and reflected ceiling plan on

a. To be 18 guage type 430 #4 satin finish and 3 1/2"x3 1/2"x48" or as noted on drawings.) Provided and installed by GC.

1. G.C. and subcontractors to coordinate and supply all necessary items w/ P.O.S./ Sound System contractors selected by owner. Electrical items includéd in drawings are for informational & pricing purposes only. Final selected vendors may differ on req's to that shown on drawings. G.C. to pull

a. Penetrations for passage of duct, cable, cable tray, conduit, piping, electrical busways and raceways through fire rated vertical barriers (walls and partitions), horizontal beams (floor/ceiling assemblies) and vertical service shaft walls and b. Safing slots gaps between edge of floor slabs and curtain c. Openings between structurally separate sections of walls and d. Gaps between tops of walls and ceiling or roof assemblies. e. Expansion joints in fire rated walls and floors. f. Openings and penetrations in fire rated partitions or walls g. Openings around structural members which penetrate fire 2. FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (VERT. & HORIZ.) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN FLOORS, STORIES, AND

3. Firestop System installation must meet requirements of ASTM E 814, ASTM E 84, UL 1479 or UL 2079 tested assemblies that provide a fire rating equal to that of construction being penetrated. Provide firestopping systems for OSI Flameseal Fire, Smoke & Draft Stop Sealant

4. Install firestopping systems to comply with manufacturer's written instructions and with requirements listed in the testing agency's directory for the indicated fire-resistance rating.

PROVIDE SHOP DRAWINGS COLOR CHARTS, SPECS, CUTS ON ALL ITEMS LISTED ON G1.1 AND A9.2 FOR ARCHITECTS REVIEW THIS SPEC IS PERFORMANCE BASED - REFER TO DRAWINGS FOR PRODUCT SPECIFIC DESIGNATIONS. MOST PRODUCT

JOB NO:

ANCHO

DATE

SUMMIT FAIR

04.25.2025

SHEET NO:

LEGEND

PLAN/SECTION

	EXISTING C
	EXISTING C REMOVED
	NEW WALL
XXXXXXXXX	BATT INSUL
	RIGID INSUL
	STONE
	BRICK
	CONCRETE
	CONCRETE
	EARTH - UN
	EARTH - CO
	GRAVEL
	GYPSUM BC
	METAL LATH
	PLYWOOD
<u> ////////////////////////////////////</u>	STEEL
<u></u>	WOOD - FIN
	WOOD - DIM
	WOOD - EN

TAGS ROOM NAME

ROOM NUMBER **REVISION NUMBER** $\bigoplus_{X'-X'}^{XXX} ELEVATION MARK$

(DET) DETAIL NUMBER SHT SHEET NUMBER

SHEET NUMBER

* (SHT.) * INTERIOR ELEVATION TAG

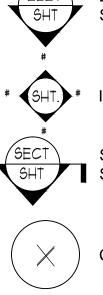
SECTION NUMBER SHEET NUMBER

COLUMN LINE DESIGNATION

DOOR NUMBER NOTE TAG CONSTRUCTION TYPE $\langle \times \times \rangle$ WINDOW NUMBER STEP DOWN HEIGHT

 $\langle \times \times \rangle$ FLOOR MATERIAL TRANSITION

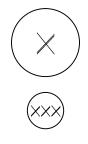
 $\begin{array}{c} \hline x-x \\ xx \end{array}$ FLOOR MATERIAL TAG

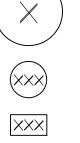


NAME #

#

<u></u> # \





IG CONSTRUCTION TO REMAIN NG CONSTRUCTION TO BE

ALL - SEE PLANS FOR TYPE SULATION OR SOUND JATION BLANKET

NSULATION

ETE BLOCK

ETE

- UNDISTURBED

- COMPACTED BACKFILL

BOARD

LATH & PLASTER

FINISH

- DIMENSIONAL LUMBER

- ENGINEERED LUMBER

ELEVATION

BRICK

GLASS

SHINGLE - ASPHALT

SHINGLE - SLATE OR CEDAR SHAKE

SIDING

STONE - DIMENSIONAL

STONE - NATURAL

STUCCO

ABBREVIATIONS ABBREV. AIR CONDITIONING CONDENSER ADDL. ADDITIONAL ADJUSTABLE ADJ. A.F.F. ABOVE FINISHED FLOOR ALTERNATE ALUM. ALUMINUM APRVD. APPROVED ARCH. ARCHITECT ASSOC. ASSOCIATED BOARD BLDG. BUILDING BLKG. BLOCKING BEAM BOTTOM OF BEARING BSMT. BASEMENT CABT. CABINET CARPENTER CARP. CATALOG CAST IRON CONTROL JOINT CENTERLINE CEILING CLG. JST. CEILING JOIST CLEAR CENTIMETER C.M.U. CONC. MASONRY UNIT C.O. CLEAN OUT COMPACTED COMP. CONC. CONCRETE CONFIG. CONFIGURATION CONT. CONTINUOUS COORDINATE COORD. CARPET CERAMIC TILE CUBIC DOUBLE DEGREES DIAMETER DIMENSION DOWN DOWNSPOUT DETAIL DISHWASHER

A/C

ALT.

BD.

BM.

B.O.

BRG.

CAT.

C.I.

C.J.

CL.

CLG.

CLR.

CM.

CPT.

C.T.

CU.

DBL.

DEG .

DIA.

DIM.

DN.

D.S.

DTL.

D.W.

DWG.

DRAWING

E.J. ELEC. ELEV. ENG. EQ. EXIST EXT. F.D. FIN. FIX. FLR. FLRG. FLSHG. FND. FP. FTG. GA. GAL. GALV. G.C. GL. GR. GRAN. GYP. BD. H.C. HD. HDWD. HDWR. H.M. HORIZ. H.P. HR. HT. HUMID. H.V.A.C. I.D. I.L.O. INFO. INT. INSUL.

EA.

ABBREVIATIONS

JOIST

EACH E.I.F.S. EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT ELECTRICAL ELEVATION ENGINEER EQUAL EXISTING EXTERIOR FLOOR DRAIN FINISH FIXTURE FLOOR FLOORING FLASHING FOUNDATION FIREPLACE FOOTING GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GLASS GRADE GRANULAR GYPSUM BOARD HANDICAPPED HEAD H.D. GALV. HOT DIPPED GALVANIZED HARDWOOD HARDWARE HOLLOW METAL HORIZONTAL HIGH POINT HOUR HEIGHT HUMIDIFIER HEATING, VENTILATION & A/C **INSIDE DIAMETER** IN LIEU OF INFORMATION INTERIOR INSULATION

JST. LAM. LAV. L.H. LOCN. L.P. LVL. MAS. MATL. MAX. M.D.F. M.D.O. MECH. MIN. MFR. MFRS. MFRD. MLWK. M. MM. M.O. MTL. MULL. N.I.C. NO. NOM. N.T.S. O.C. O.D. O.F.C.I. OPNG. OPP. PL. P.LAM. PLBG PLYWD. POL. PR. PT. PAINT PTD. PAINTED

LAMINATED LAVATORY LEFT HAND LOCATION LOW POINT LAMINATED VENEER LUMBER MASONRY MATERIAL MAXIMUM MEDIUM DENSITY FIBERBOARD MEDIUM DENSITY OVERLAY MECHANICAL MINUMUM MANUFACTURER MANUFACTURER'S MANUFACTURED MILLWORK METER MILLIMETER MASONRY OPENING METAL MULLION NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OWNER FURNISHED, CONTRACTOR TO INSTALL OPENING OPPOSITE PLATE PLASTIC LAMINATE PLUMBING PLYWOOD POLISHED PAIR PRE-FAB. PRE-FABRICATED PRE-FIN. PRE-FINISHED PRES. TRTDPRESSURE TREATED

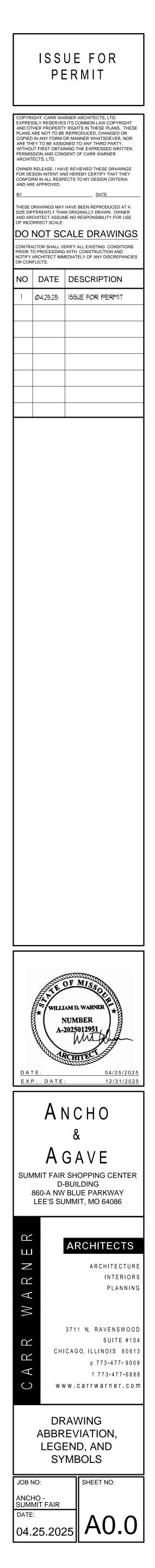
P.V.C. POLYVINYL CHLORIDE

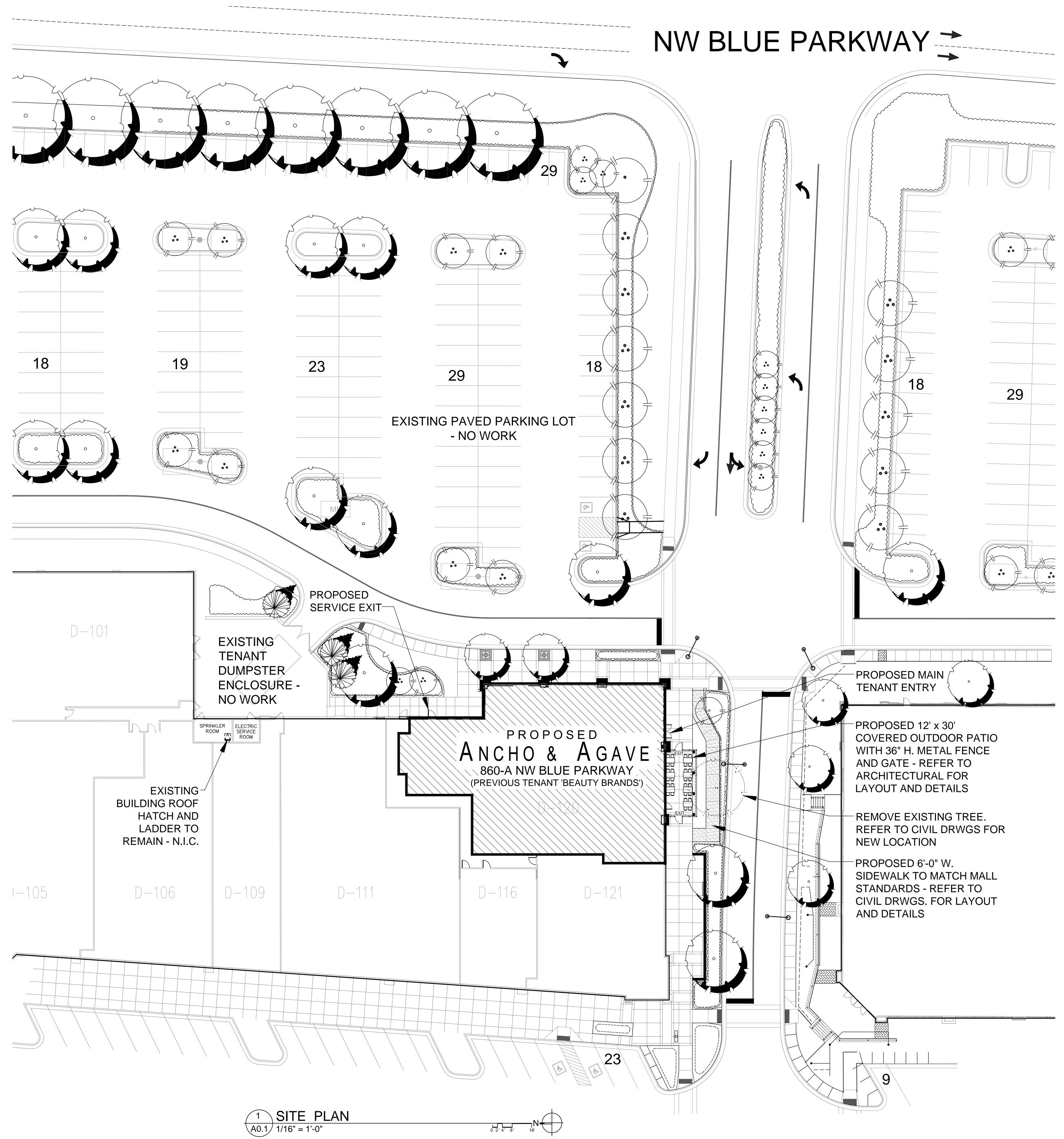
R. RAD. REINF. REQD. REQTS. R.H. R.O. RM. S.C. SCHED. S.F. SHT. SHTG. SHWR. SIM. S.S. STD. STL. S4S Т. TEMP. T&G THK. TRANS. T.O. TYP. U.N.O. V.B. V.C.T. VERT. V.I.F. W.C. WD. WDW. WHPL.

W.W.F.

YD.

RISER RADIUS RECIRC. RECIRCULATING REINFORCING REQUIRED REQUIRMENTS RIGHT HAND ROUGH OPENING ROOM SOLID CORE SCHEDULE SQUARE FEET SHEET SHEATHING SHT. MTL. SHEET METAL SHOWER SIMILAR STAINLESS STEEL STANDARD STEEL STRUCT. STRUCTURAL SUBFLR. SUBFLOOR SMOOTH FOUR SIDES TREAD TEMPERED TONGUE AND GROOVE THICK TRANSPARENT TOP OF TYPICAL UNLESS NOTED OTHERWISE VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VERIFY IN FIELD WATER CLOSET WOOD WINDOW WHIRLPOOL WELDED WIRE FABRIC YARD





BUILDING DATA

TYPE OF CONSTRUCTION: USE GROUP:

NUMBER OF STORIES: BUILDING HEIGHT: BUILDING (TENANT) AREA: EXTERIOR WALL FIRE RATING: SPRINKLERED: FIRE ALARM:

II B (EXISTING) M, MERCANTILE (PREVIOUS TENANT - BEAUTY BRANDS SALON) A-2, ASSEMBLY (PROPOSED - ANCHO AND AGAVE RESTAURANT) ONE STORY (EXISTING - NO CHANGE) 24'-0", (EXISTING - NO CHANGE) 7,500 SF 0 HR, (EXISTING - NO CHANGE) EXISTING - TO BE MODIFIED FOR NEW OCCUPANCY **EXISTING - TO BE MODIFIED FOR NEW OCCUPANCY**

SITE PARKING CALCULATIONS

PARKING REQUIREMENTS:

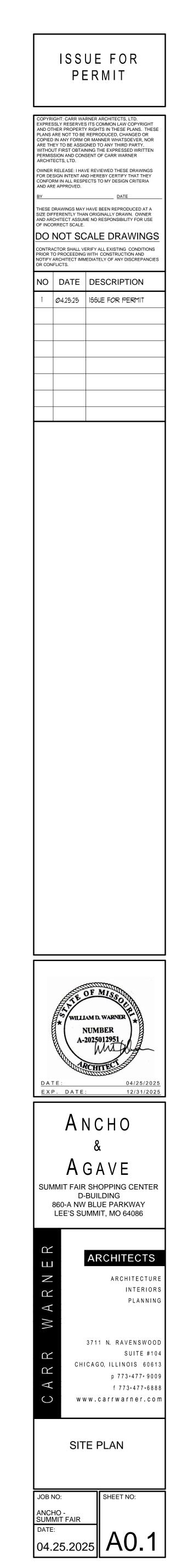
EXISTING PARKING ON SITE: HANDICAP SPACES: PARKING PROVIDED:

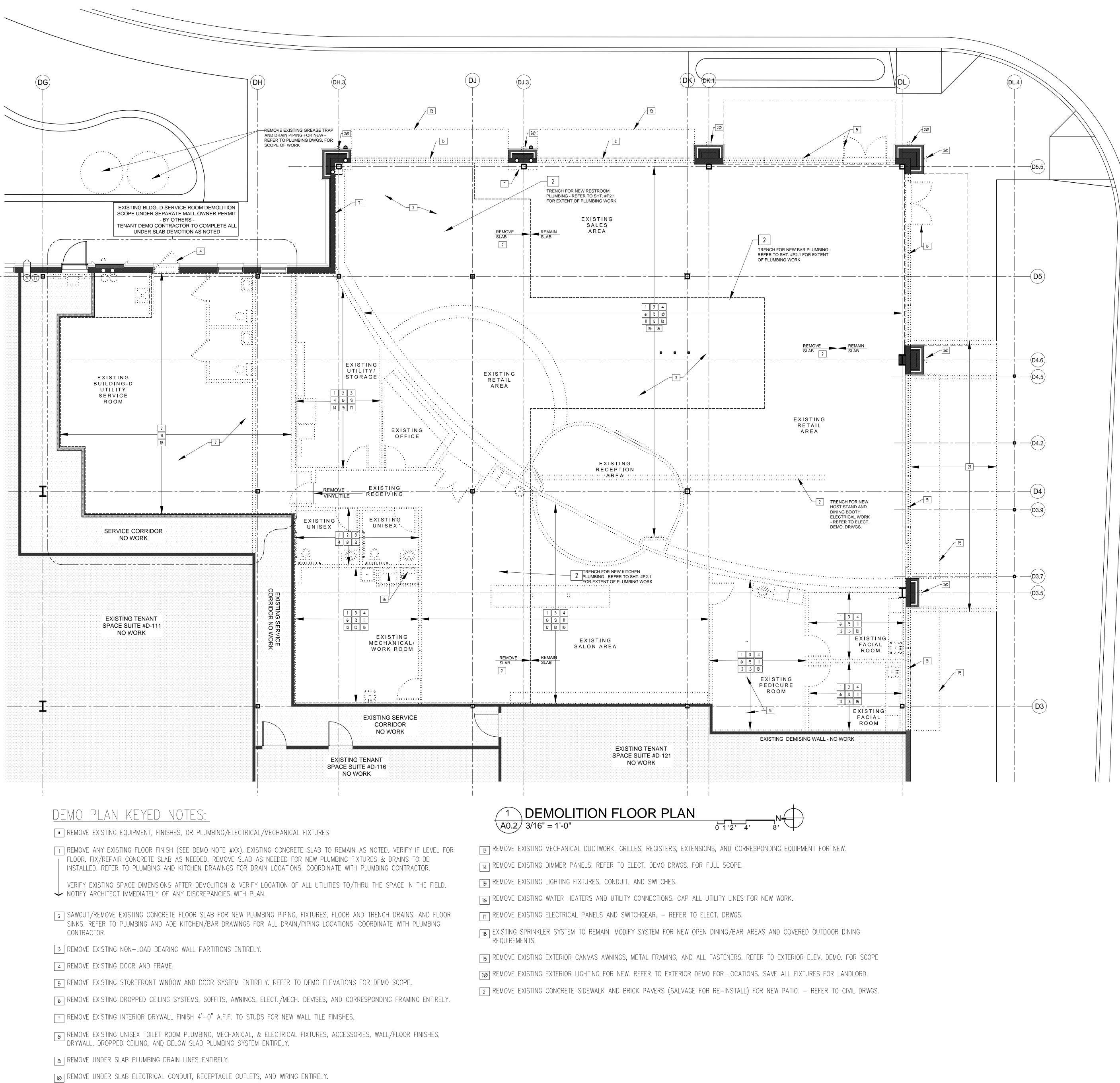
 RESTAURANT (eating establishment): 5 PARKING SPACE PER EACH 1,000 S.F. (for large shopping center) 7,500 GROSS S.F. : 7,500 S.F./1,000 = 7.5 x 5 = 38 PARKING SPACES OVER 200 SPACES WITHIN 300 FT. OF RESTAURANT ENTRY

2 EXISTING SPACES ADJACENT TO BUILDING ENTRY EXISTING - NO CHANGE

SITE PLAN IS DIAGRAMMATIC IN NATURE AND IS FOR VISUAL REFERENCE ONLY. DO NOT USE FOR ACCURATE LOCATING OR SURVEY PURPOSES.

> NOTE: BUILDING IS EQUIPPED WITH AN EXISTING APPROVED AUTOMATIC SPRINKLER SYSTEM COMPLYING WITH N.F.P.A. 13 2010 EDITION





REMOVE EXISTING CASEWORK, COUNTER TOPS, SHELVES, HAND/UTILITY SINKS, PLUMBING AND ELECTRICAL FIXTURES. REMOVE EXISTING VINYL FLOOR PLANK SYSTEM, CARPET, FLOOR TILE INCLUDING METAL TRANSITION STRIPS, GROUT AND ADHESIVES. ZEXISTING CONCRETE SLAB TO REMAIN U.N.O.. VERIFY SLAB SURFACE TO RECEIVE NEW FINISH FLOOR. FIX/PATCH/REPAIR CONCRETE

GENERAL DEMOLITION NOTES:

- 1. COORDINATE WITH PROPER UTILITY COMPANY REMOVAL OF UTILITY SYSTEM PRIOR TO IT'S DISCONNECTION.
- 2. ALL UTILITY LINES TO BE PROPERLY CAPPED AND SEALED UNTIL NEW SUCH SAID SYSTEMS ARE INSTALLED.
- 3. FIELD VERIFY ALL EXISTING TENANT UTILITIES AND UTILITIES THAT PENETRATE DEMISING WALLS, CEILINGS, AND SLABS PRIOR TO REMOVAL.
- 4. DEMOLISH EXISTING CONSTRUCTION WHERE INDICATED ON THE DRAWINGS AND REQUIRED BY JOB CONDITIONS.
- 5. MAINTAIN EXIT AND ACCESS WAYS IN A CLEAN, UNOBSTRUCTED, AND PROPERLY ILLUMINATED MANNER AT ALL TIMES.
- 6. PROTECT SPACES AND WORK TO REMAIN FROM DUST, NOISE, AND DAMAGE. PROVIDE TEMPORARY ENCLOSURES TO INSURE THAT NO DUST LEAKAGE OR DAMAGE OCCURS TO THE TENANT UNIT AREAS OR BUILDING STRUCTURE. MAINTAIN SITE IN A CLOSED AND SECURE MANNER TO PREVENT THEFT, VANDALISM, AND UNAUTHORIZED ENTRY.
- PROTECT EXISTING CONSTRUCTIONS AND ADJACENT TENANT SPACES THAT ARE DESIGNATED TO REMAIN. REMOVE DEMOLISHED ITEMS FROM SITE AND DISPOSE OF THEM IN A LEGAL MANNER.
- 8. CEASE OPERATIONS AND IMMEDIATELY NOTIFY THE TENANT AND BUILDING OWNER IF THE SAFETY OF EXISTING CONSTRUCTION APPEARS TO BE ENDANGERED AT ANY TIME. TAKE PRECAUTIONS TO SUPPORT SUCH ENDANGERED CONSTRUCTION AND DO NOT RESUME OPERATIONS UNTIL AUTHORIZED BY THE ARCHITECT.
- 9. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE ADEQUACY AND INSTALLATION OF ALL TEMPORARY SHORING SYSTEMS USED DURING THE REMOVAL OF ALL STRUCTURAL ELEMENTS, EXCEPT, AS OTHERWISE AGREED IN WRITTEN BY THE BUILDING DEPARTMENT AND ARCHITECT.
- 10. THE DRAWINGS DO NOT NECESSARILY INDICATE THE FULL EXTENT OF THE WORK REQUIRED TO BE PERFORMED. CONTRACTOR TO INSPECT THE EXISTING CONSTRUCTION CAREFULLY TO DETERMINE THE FULL EXTENT OF THE WORK TO BE PERFORMED AND THE PROBLEMS INVOLVED. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO ESTIMATE THE FULL EXTENT OF THE WORK
- 11. ALL WORK SHALL BE PERFORMED BY SKILLED AND PROPERLY EQUIPPED PERSONNEL. DEMOLITION AND REMOVAL OF ITEMS SCAFFOLD HIGH OR HIGHER SHALL BE LOWERED BY CONTROLLED METHODS, NOT BY THROWING OR DROPPING, PERFORM CUTTING AND STRIPPING SO THAT THE WORK TO REMAIN IS UNDAMAGED AND IN SUCH MANNER THAT THE NEW WORK CAN BE PROPERLY CONNECTED WITH IT.
- 12. DEMOLISH EXISTING CONSTRUCTION ONLY TO THE EXTENT NECESSARY FOR THE PROPER INSTALLATION OF NEW CONSTRUCTION AND JUNCTION WITH EXISTING WORK CUT BACK FINISHED SURFACES TO STRAIGHT, PLUMB AND LEVEL AS REQUIRED.
- 13. SAW-CUTTING SHALL BE PERFORMED BY EXPERIENCED CRAFTSMEN CUSTOMARILY ENGAGED IN AND PROPERLY EQUIPPED FOR THE PERFORMANCE OF THE TYPE OF WORK REQUIRED BY JOB CONDITIONS. PROVIDE WET VACUUM EQUIPMENT AS REQUIRED FOR CONTROL OF WASTE COOLING WATER.
- 14. REMOVE EXISTING CONSTRUCTION FOR INSTALLATION OF PIPING, CONDUIT AND TUBING AS REQUIRED BY PLUMBING, MECHANICAL AND ELECTRICAL TRADES.
- 15. DRILLING AND INSTALLING SLEEVES FOR PASSAGE OF PIPING CONDUIT AND TUBING SHALL BE DONE BY THE TRADE INSTALLING THE PIPING, CONDUIT OR TUBING.
- 16. REPAIR, RESTORE, REPLACE OR MAKE GOOD DAMAGE TO EXISTING CONSTRUCTION WHICH JCCURS AS A RESULT OF DEMOLITION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER. THESE REPAIRS SHALL INCLUDE ANY ROOF PATCHING REQUIRED DUE TO DEMOLITION TO BE COORDINATED WITH LANDLORD AND LANDLORDS ROOFER.
- 17. ALL REMOVED MATERIAL, NOT OTHERWISE DESIGNATED, AND ALL DEBRIS BECOMES THE PROPERTY OF THE CONTRACTOR WHO SHALL REMOVE IT FROM THE SITE.
- 18. DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE, REMOVE DAILY AND DISPOSE OF IN A LEGAL MATTER. NO ON-SITE SALE OR BURNING OF DEMOLISHED MATERIALS WILL BE PERMITTED.
- 19. LEAVE ALL SPACES BROOM CLEAN WITH ALL LEDGES AND CORNERS PROPERLY CLEANED.
- 20. CONTRACTOR TO PROTECT ADJACENT TENANT SPACES AND SHOPPING MALL COMMON SPACES FOR CONSTRUCTION DUST AND DEBRIS. NO MATERIALS MAYBE STORED AND/OR

TEMPORARILY STAGE WITHIN COMMON AREAS.

- 21. GLASS: PROVIDE SUCH PROTECTION AS MAY BE REQUIRED TO PREVENT GLASS BREAKAGE AT NO ADDITIONAL COST, REPLACE IN KIND ALL BROKEN GLASS.
- 22. LOWERING MATERIAL PROVIDE HOISTS AND CHUTES AS REQUIRED TO LOWER REMOVED MATERIAL. THROWING, DROPPING OR PERMITTING THE FREE FALL OF MATERIAL AND DEBRIS FROM HEIGHTS WHICH WOULD CAUSE DAMAGE TO WORK TO REMAIN NOISE OR NUISANCE, OR EXCESSIVE DUST IS EXPRESSLY PROHIBITED.
- 23. PROTECTION OF PERSONNEL: ERECT SIGNS, BARRICADES AND SUCH OTHER FORMS OF WARNING AS MAY BE REQUIRED TO PREVENT THEM FROM PUTTING THEMSELVES IN THE WAY OF INJURY.
- 24. EXISTING WORK TO REMAIN: PROVIDE SUCH FORMS OF PROTECTION AS MAY BE NECESSARY TO PREVENT DAMAGE TO EXISTING WORK AND EQUIPMENT TO REMAIN.
- 25. DOORS AND HARDWARE: REMOVE CAREFULLY TO AVOID DAMAGE, INSOFAR AS POSSIBLE, LEAVE HARDWARE ATTACHED TO THE DOOR WHERE THIS IS NOT PRACTICAL PLACE ITEMS OF HARDWARE IN A CLOTH BAG ATTACHED TO THE DOOR.
- 26. PARTITIONS: REMOVE PARTITION FINISH, STUDS, PLATES AND SILLS. WHERE ONLY A PARTIAL RUN IS REMOVED, CUT BACK FINISH MATERIAL TO THE CENTER LINE OF THE NEXT ADJACENT SUPPORT TO REMAIN. LEAVE REMAINING MATERIAL WITH A CLEAN TERMINAL LINE WITH NO LOOSE MATERIAL ADHERING.
- 27. MECHANICAL, ELECTRICAL, PLUMBING: CAREFULLY REVIEW PLANS AND DETERMINE LINES TO BE REMOVED AND THOSE TO BE KEPT ACTIVE OR TO BE REACTIVATED. PROTECT LINES TO REMAIN. PROVIDE FOR MINIMUM SERVICE INTERRUPTION OF LINES TO REMAIN.
- 28. REMOVE FIXTURES AND EQUIPMENT AS INDICATED, WHEN INDICATED FOR REUSE, CLEAN, STORE AS DIRECTED AND PROTECT. IDENTIFY POINT OF REUSE.

LEGEND

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

NOTE ALL EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING ALTERATIONS, REPAIRS OR ADDITIONS TO BUILDING STRUCTURE PEDESTRIANS SHALL BE PROTECTED DURING CONSTRUCTION, REMODELING AND DEMOLITION ACTIVITIES. SIGNS SHALL BE PROVIDED TO RE-DIRECT PEDESTRIAN TRAFFIC. REQUIRED MEANS OF EGRESS AND ACCESSIBLE MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO BUILDING.



PRESSLY RESERVES ITS COMMON LAW COPYRIG OTHER PROPERTY RIGHTS IN THESE PLANS. THES ANS ARE NOT TO BE REPRODUCED, CHANGED OF PIED IN ANY FORM OR MANNER WHATSOEVER, NOR THEY TO BE ASSIGNED TO ANY THIRD PARTY, THOUT FIRST OBTAINING THE EXPRESSED WRITTEN MISSION AND CONSENT OF CARR WARNER VNER RELEASE: I HAVE REVIEWED THESE DRAWINGS OR DESIGN INTENT AND HEREBY CERTIFY THAT THEY CONFORM IN ALL RESPECTS TO MY DESIGN CRITERIA ND ARE APPROVED.

ESE DRAWINGS MAY HAVE BEEN REPRODUCED AT A E DIFFERENTLY THAN ORIGINALLY DRAWN. OWNER ND ARCHITECT ASSUME NO RESPONSIBILITY FOR USE FINCORRECT SCALE. DO NOT SCALE DRAWING

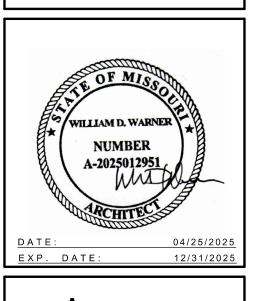
ITRACTOR SHALL VERIFY ALL EXISTING CONDITIONS R TO PROCEEDING WITH CONSTRUCTION AND FY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES CONFLICTS.

NO	DATE	DESCRIPTION
1	Ø4.25.25	ISSUE FOR PERMIT

REFER TO SHT. #A0.3 FOR EXTERIOR ELEVATION DEMOLITION & NOTES REFER TO SHT. # M2.0 FOR MECHANICAL DEMOLITION PLAN AND

NOTES. REFER TO SHT. #E4.0 FOR ELECTRICAL DEMOLITION PLAN AND NOTES.

REFER TO SHT. #K-4 FOR KITCHEN AND BAR DEMOLITION PLAN AND NOTES.





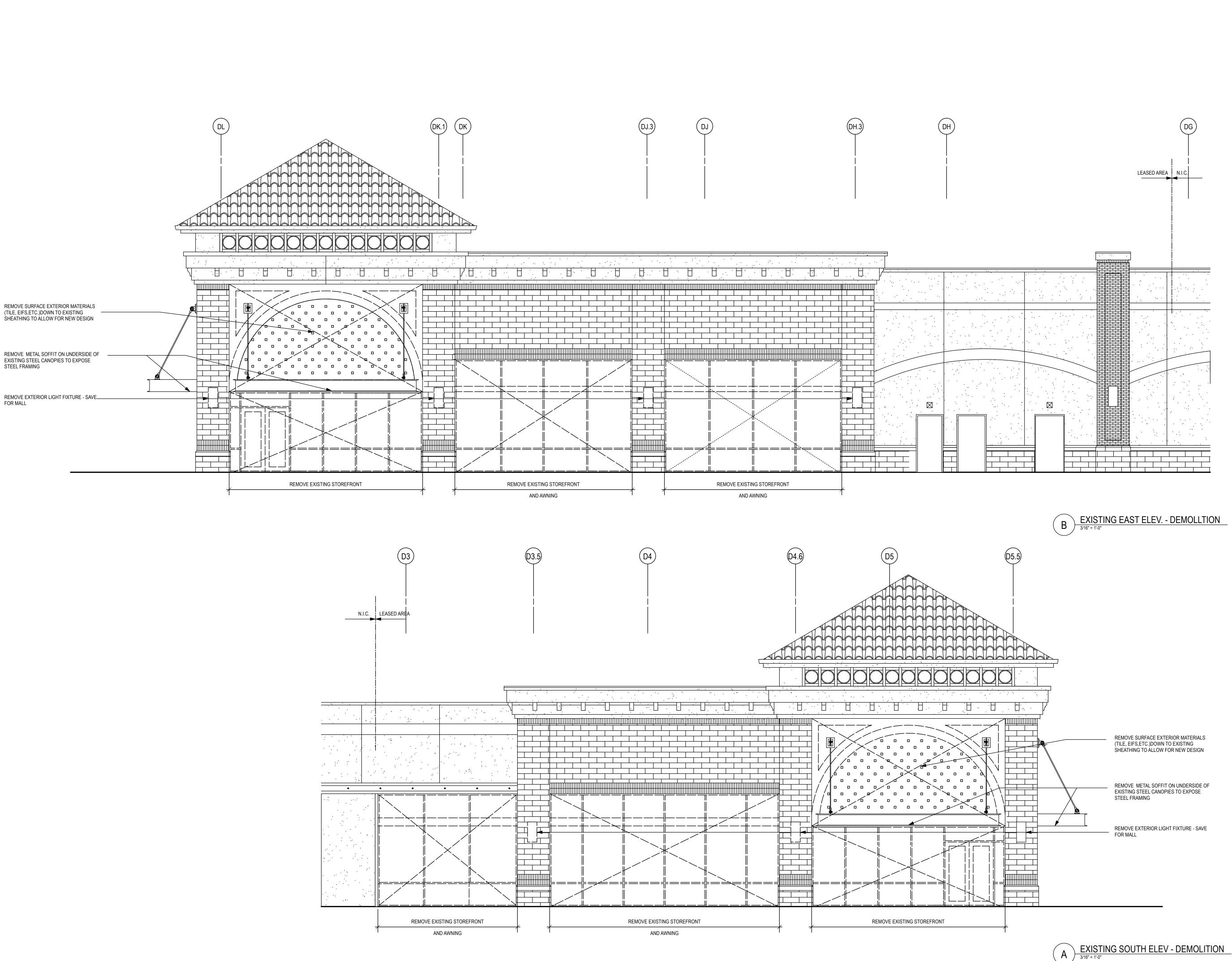
D-BUILDING 860-A NW BLUE PARKWAY LEE'S SUMMIT, MO 64086

> ARCHITECTS ARCHITECTURE INTERIORS PLANNING

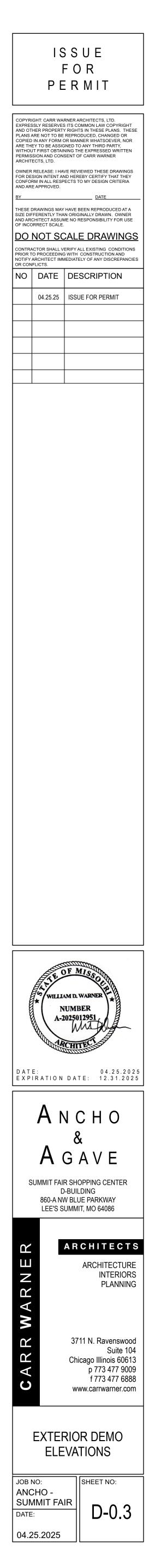
3711 N. RAVENSWOO SUITE #10 CHICAGO, ILLINOIS 6061 p 773•477•900 f 773•477•6888 www.carrwarner.com

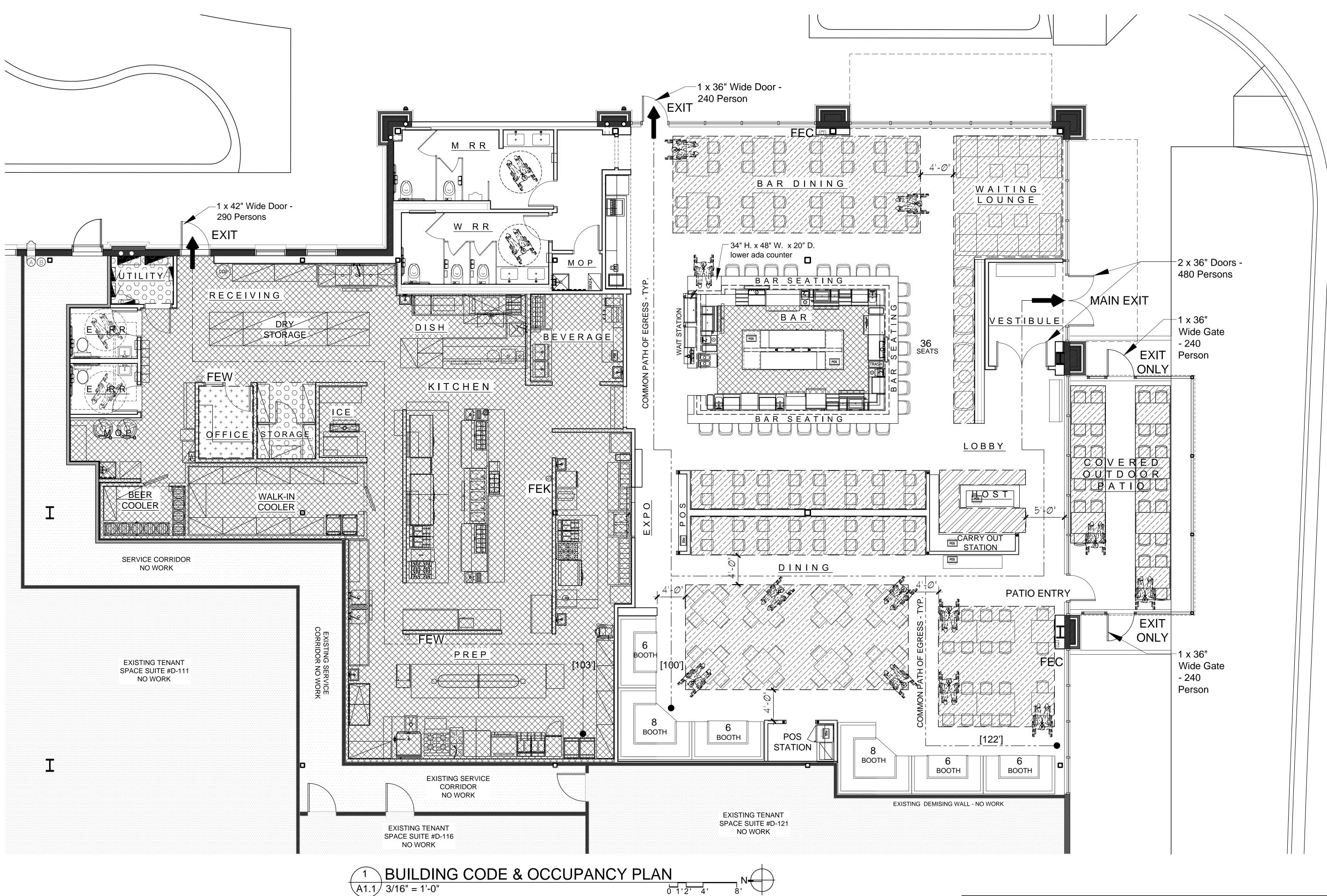
INTERIOR DEMOLITION FLOOR PLAN





DH.3	DH		LEASED AREA N.I.C.





A1.1/ 3/16" = 1'-0"

SEX	PLUMBING	FIXTURE	CODE	PROVIDED
	FIXTURE TYPE	CALCULATION	QUANTITY	
MALE	WATER CLOSETS	1 per 75	2	2
	URINALS	1-150	1	1
	LAVATORIES	1 per 200	1	2
FEMALE	WATER CLOSETS	1 per 75	2	3
	LAVATORIES	1 per 200	1	2
	DRINKING FOUNTAIN	NR, WATER IS SERVED		
	SERVICE SINK	MOP SINK	1	1
CALCULAT			403.1	BING FIXTURE

FIRE PR	ROTEC
FEC	RECE #SS-1 (STAI #6 DL BLAC EXTIN
FEK	WALL AND to top
FEW	WALL 'POTT to top
<u>NOTE:</u> COORD	

TENANT/OWNER TO PROVIDE A DURABLE OCCUPANT LOAD SIGN POSTED IN A PROMINENT LOCATION OF THE ENTRY VESTIBULE EXIT AREA, AS REQUIRED PER NFPA 101. VERIFY LOCATION WITH FIRE CODE INSPECTOR.

CTION SYMBOLS:

CESSED FIRE EXTINGUISHER CABINET - BY POTTER ROEMER S-1702-F-#6-FP-VAB-R mounting height 48" a.f.f. to cabinet door handle AINLESS STEEL, RECESSED MOUNTED, FLUSH SOLID METAL PANEL, DULL SATIN FINISH, FLUSH PULL HANDLE, VERTICAL ASCENDING

ACK REVERSE DIE CUT LETTERING) FOR USE WITH POTTER ROEMER TINGUISHER #3005-3, DRY CHEMICAL 2A 40B:C L MOUNTED TYPE 'K-CLASS' WET CHEMICAL FIRE EXTINGUISHER

D WALL BRACKET BY 'POTTER-ROEMER' #3263 mounting height 48" a.f.f. op of extinguisher MOUNTED TYPE 'ABC' EXTINGUISHER AND WALL BRACKET BY

TTER-ROEMER' #3005, DRY CHEMICAL 2A 10B:C mounting height 48" a.f.f. op of extinguisher

E ALL FIRE EXTINGUISHER LOCATIONS WITH LOCAL FIRE DEPARTMENT

PR	DJECT SCOPE:				
•	TENANT INTERIOR BU STEEL FRAME BUILDI				
<u>AP</u>	PLICABLE CODES: per	the CITY OF LEE'S S	UMMIT		
•	2018 International Build 2018 International Prop	-	۵		
•	2018 International Fire	Code	C		
•	2018 International Fuel 2018 International Mecl				
•	2018 International Plum 2018 International Exist	ing Building Code			
•	2017 National Electric C 2018 Life Safety Code				
•	National Fire Code (NF Missouri State Plumbing	PA), Current Edition	n		
•	ICC/ANSI A117.1-2009 Local Amendments per	ACCESSIBLE and U	SEABLE	BUILDINGS ar	nd FACILITIE
<u> </u>	CUPANCY CLASSIFICA			03.1)	
	PREVIOUS TENANT: PROPOSED: ASSEMB				BRANDS SAL
20	NSTRUCTION TYPE:				
ΓΥI	PE II-B NON-COMBUST	ABLE (EXISTING - NC	CHANG	E)	
<u>ALI</u>	OWABLE HEIGHT & BU			ABLE 503)	
•	ALLOWABLE BUILDIN SPRINKLER INCREAS TOTAL ALLOWABLE E	E (SECTION 506.3 30	0% ONE	STORY)	
•	7,500 SF TENANT GRO				
)	ALLOWABLE BUILDIN ACTUAL BUILDING HE ALLOWABLE NUMBER ACTUAL NUMBER OF	IGHT: 24'-0" (EXISTIN R OF STORIES (II-B) =	NG - NO (3 STOR	IES (2 + 1 SPF	
IR	E RESISTANCE RATING	<u> 35:</u> (2018 IBC - TAB	LE 601)	REQUIRED	PROVIDE
	STRUCTURAL FRAME			0 HR	
	EXTERIOR WALLS - B EXTERIOR WALLS - N	ON-BEARING:		0 HR 0 HR	0 HR 0 HR
	INTERIOR WALLS - BE		RING:	0 HR 0 HR	0 HR 0 HR
	FLOOR CONSTRUCTION	ON:		0 HR 0 HR	0 HR 0 HR
	* BUILDING IS ONE		/ITH AUT	OMATIC SPRI	NKLER SYS
<u>NT</u>	ERIOR FINISH REQUIR (SPRIN	CHAPTE	ER 8 OF T	THE 2018 IBC	L COMPLY \
•	EXIT ENCLOSURES & CORRIDORS: ROOMS & ENCLOSED		CLA	ISS B ISS B ISS C	
	CORRIDORS:		CLA	SS B	
•	CORRIDORS: ROOMS & ENCLOSED	SPACES:	CLA CLA	ISS B NSS C	BLE 10
C	CORRIDORS:	SPACES: LOAD: (20	CLA CLA	ISS B NSS C	BLE 10
	CORRIDORS: ROOMS & ENCLOSED CCUPANCY LOAD C SEMBLY - NON-FIXED S	SPACES: LOAD: (20 ALCULATIONS SEATING UN-CONCE	CLA CLA 18 IB	SS C SS C	3LE 10
	CORRIDORS: ROOMS & ENCLOSED	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCE	CLA CLA 18 IB	SS B SS C C - TAE	3LE 10
	CORRIDORS: ROOMS & ENCLOSED CCUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCE = 90	CLA CLA 18 IB	SS B SS C C - TAE	3LE 10
	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F F AREA: 1,349 SF / 15	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCE = 90 NG BOOTH/BANQUE EAT	CLA CLA 18 IB	SS B SS C C - TAE	3LE 10
	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F F AREA: 1,349 SF / 15 SEMBLY - FIXED SEATI ERSON PER 24" BACKS	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCE = 90 NG BOOTH/BANQUE EAT	CLA CLA 18 IB	SS B SS C C - TAE	3LE 10
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	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F F AREA: 1,349 SF / 15 SEMBLY - FIXED SEATI ERSON PER 24" BACKS FAL LINEAR INCHES = LI / 24 SEMBLY - FIXED SEATI ERSON PER 18" BACKS FAL LINEAR INCHES = 0 LI / 18	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCENT = 90 NG BOOTH/BANQUE EAT 1296 LI = 40 NG BAR EAT 554 LI = 36	CLA CLA 18 IB	SS B SS C C - TAE	3LE 10
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	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F F AREA: 1,349 SF / 15 SEMBLY - FIXED SEATI ERSON PER 24" BACKS FAL LINEAR INCHES = 1 LI / 24 SEMBLY - FIXED SEATI ERSON PER 18" BACKS FAL LINEAR INCHES = 1 LI / 24 SEMBLY - STANDING S ERSON PER 5 NET SF	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCEL = 90 NG BOOTH/BANQUE EAT 1296 LI = 40 NG BAR EAT 554 LI = 36 PACE = 11 MMERCIAL) S S.F.	CLA CLA 18 IB	SS B SS C C - TAE	BLE 10
	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F F AREA: 1,349 SF / 15 SEMBLY - FIXED SEATI ERSON PER 24" BACKS TAL LINEAR INCHES = 1 LI / 24 SEMBLY - FIXED SEATI ERSON PER 18" BACKS TAL LINEAR INCHES = 1 LI / 24 SEMBLY - STANDING S ERSON PER 100 GROS OSS AREA: 2713 SF / 20 FICE ERSON PER 100 GROS	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCE = 90 NG BOOTH/BANQUE EAT 1296 LI = 40 NG BAR EAT 554 LI = 36 PACE = 11 MMERCIAL) S S.F. 20 = 14 S S.F.	CLA CLA 18 IB	SS B SS C C - TAE	BLE 10
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O SPH SPOG SPO SPH TPR FPR TP	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F F AREA: 1,349 SF / 15 SEMBLY - FIXED SEATI ERSON PER 24" BACKS TAL LINEAR INCHES = LI / 24 SEMBLY - FIXED SEATI ERSON PER 18" BACKS TAL LINEAR INCHES = LI / 24 SEMBLY - STANDING S ERSON PER 18" BACKS FAL LINEAR INCHES = LI / 18 SEMBLY - STANDING S ERSON PER 5 NET SF F AREA: 55 SF / 5 CHEN, PREP, BAR (CO ERSON PER 200 GROS OSS AREA: 2713 SF / 20 FICE ERSON PER 100 GROS OSS AREA: 55 SF / 100 LITY/STORAGE ERSON PER 300 GROS	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCEL = 90 NG BOOTH/BANQUE EAT 1296 LI = 40 NG BAR EAT 554 LI = 36 PACE = 11 MMERCIAL) S S.F. 20 = 14 S S.F. = 1 S S.F.	CLA CLA 18 IB	SS B SS C C - TAE	BLE 10
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O O ASPE APOG APOS APE TPR	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F F AREA: 1,349 SF / 15 SEMBLY - FIXED SEATI ERSON PER 24" BACKS FAL LINEAR INCHES = LI / 24 SEMBLY - FIXED SEATI ERSON PER 24" BACKS FAL LINEAR INCHES = LI / 24 SEMBLY - FIXED SEATI ERSON PER 18" BACKS FAL LINEAR INCHES = LI / 18 SEMBLY - STANDING S ERSON PER 5 NET SF F AREA: 55 SF / 5 CHEN, PREP, BAR (CO ERSON PER 200 GROS OSS AREA: 2713 SF / 20 FICE ERSON PER 100 GROS OSS AREA: 55 SF / 100 LITY/STORAGE ERSON PER 300 GROS OSS AREA: 102 SF / 300 TAL BUILDING OC	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCE = 90 NG BOOTH/BANQUE EAT 1296 LI = 40 NG BAR EAT 554 LI = 36 PACE = 11 MMERCIAL) S S.F. 20 = 14 S S.F. 20 = 14 S S.F. 21 = 12 CUPANT LOAD FIXED SEATING UN			
	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F F AREA: 1,349 SF / 15 SEMBLY - FIXED SEATI ERSON PER 24" BACKS FAL LINEAR INCHES = 1 LI / 24 SEMBLY - FIXED SEATI ERSON PER 18" BACKS FAL LINEAR INCHES = 1 LI / 24 SEMBLY - STANDING S ERSON PER 18" BACKS FAL LINEAR INCHES = 1 LI / 18 SEMBLY - STANDING S ERSON PER 5 NET SF F AREA: 55 SF / 5 CHEN, PREP, BAR (CO ERSON PER 200 GROS OSS AREA: 2713 SF / 20 FICE ERSON PER 100 GROS OSS AREA: 25 SF / 100 LITY/STORAGE ERSON PER 300 GROS OSS AREA: 102 SF / 300 TAL BUILDING OC SEMBLY (PATIO) - NON ERSON PER 15 NET S.F F AREA: 175 SF / 15 TAL OCCUPANT I	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCEL = 90 NG BOOTH/BANQUE EAT 1296 LI = 40 NG BAR EAT 354 LI = 36 PACE = 11 MMERCIAL) S S.F. 20 = 14 S S.F. 20 = 14 S S.F. 20 = 14 S S.F. 20 = 14 S S.F. 21 = 12 CUPANT LOAD FIXED SEATING UN- = 12 OAD (BUILDIN		SS B SS C C - TAE	<u>5</u>
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C SPE SPOR SPOR SPOR SPE TPR FPR TPR C SPE C	CORRIDORS: ROOMS & ENCLOSED CUPANCY LOAD C CUPANCY LOAD C SEMBLY - NON-FIXED S ERSON PER 15 NET S.F TAREA: 1,349 SF / 15 SEMBLY - FIXED SEATI ERSON PER 24" BACKS TAL LINEAR INCHES = 1 11/24 SEMBLY - FIXED SEATI ERSON PER 18" BACKS TAL LINEAR INCHES = 1 11/18 SEMBLY - STANDING S ERSON PER 18" BACKS TAL LINEAR INCHES = 1 11/18 SEMBLY - STANDING S ERSON PER 5 NET SF TAREA: 55 SF / 5 CHEN, PREP, BAR (CO ERSON PER 200 GROS OSS AREA: 2713 SF / 20 FICE ERSON PER 100 GROS OSS AREA: 55 SF / 100 LITY/STORAGE ERSON PER 300 GROS OSS AREA: 55 SF / 100 LITY/STORAGE ERSON PER 102 SF / 300 TAL BUILDING OC SEMBLY (PATIO) - NON ERSON PER 15 NET S.F TAL OCCUPANT I CUPANCY LOAD L ASSEMBL 1 PERSO	SPACES: LOAD: (20 ALCULATIONS EATING UN-CONCE = 90 NG BOOTH/BANQUE EAT 296 LI = 40 NG BAR EAT 554 LI = 36 PACE = 11 MMERCIAL) S S.F. 20 = 14 S S.F. 20 = 14 S S.F. 21 = 12 CUPANT LOAD FIXED SEATING UN- = 12 OAD (BUILDIN EGEND: LY - NON-FIXED SEAT	CLA 18 IB NTRATEI TTE CONCEN G & PA TING E	SS B SS C C - TAE	<u>5</u>

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 OFFICE: - 1 PERSON PER 100 GROSS S.F.

UTILITY/STORAGE: - 1 PERSON PER 300 GROSS S.F.

ANCHO & AGAVE BUILDING ANALYSIS: BUILDING AREA: 7,500 S.F. GROSS FLOOR AREA

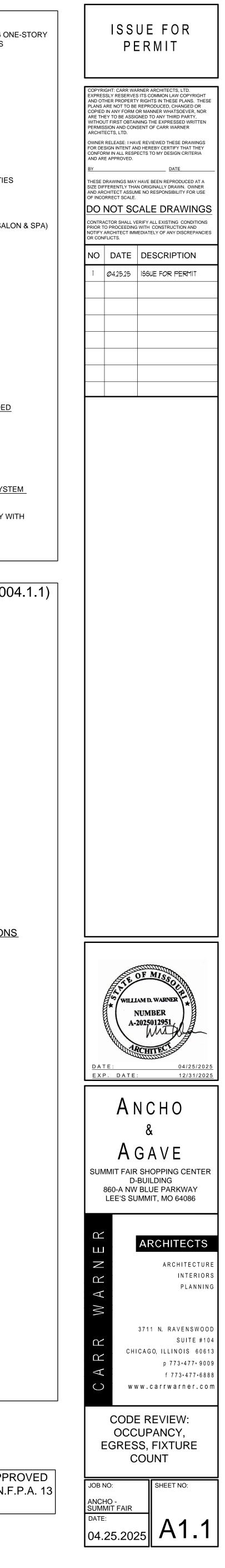
SQUARE FOOTAGE/SEATING SUMMARY:

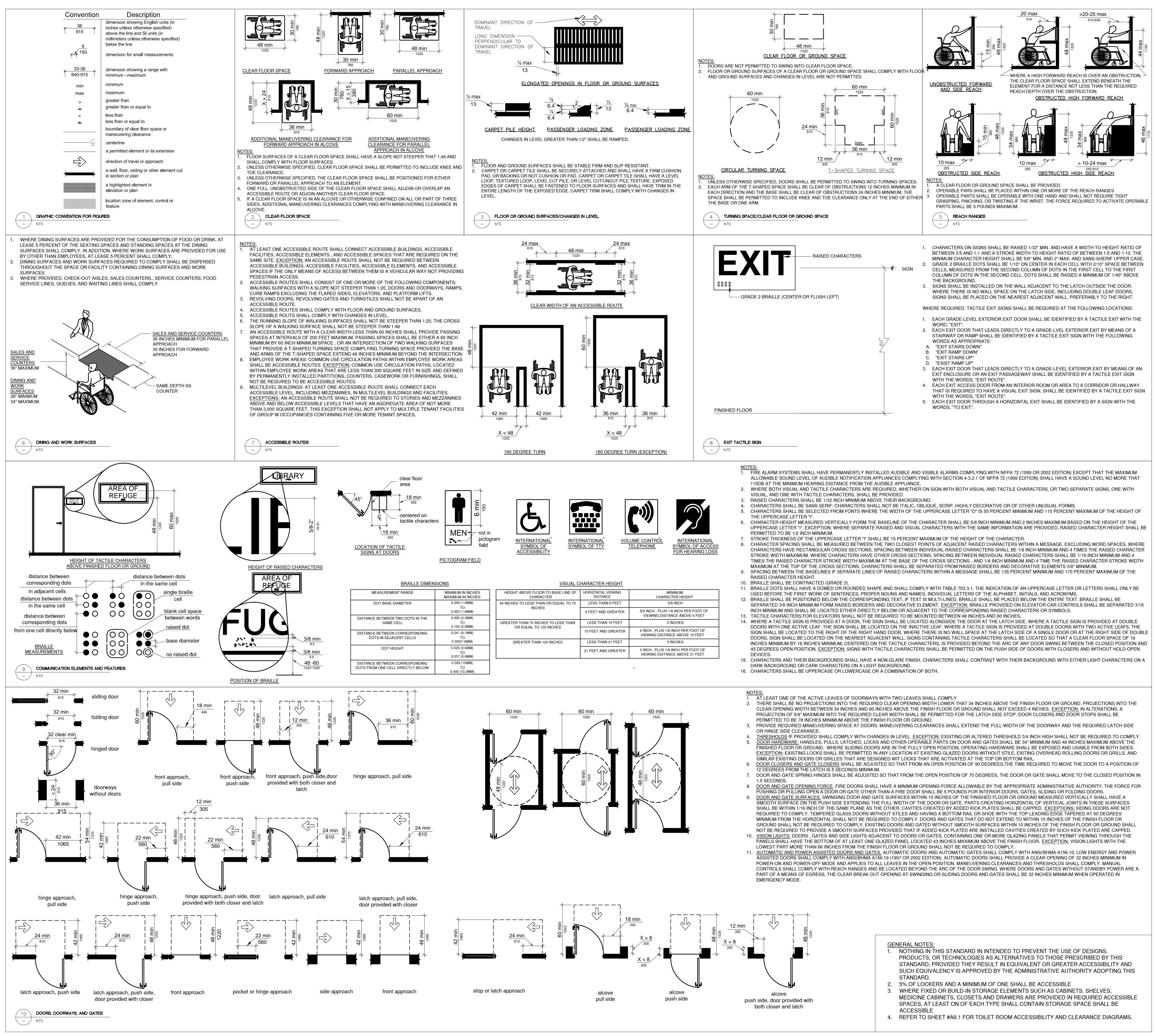
DINING/EATING AREA: 2,800 S.F. OCCUPANCY: 180 PERSONS # OF TABLES: 30 TABLES # OF CHAIRS: 116 CHAIRS # OF BOOTHS: 6 BOOTHS # OF BAR STOOLS: 25 STOOLS
LOUNGE/WAITING AREA: 120 S.F. OCCUPANCY:14 PERSONS # OF TABLES: 2 TABLES # OF CHAIRS: 14 CHAIRS
ACTUAL NUMBER OF SEATS: 194 (INTERIOR) REQUIRED H.C. SEATING 5% OF TOTAL = 10 SEATS PROVIDED H.C. SEATING: = 10 SEATS
OUTSIDE COVERED PATIO AREA: 450 S.F. # OF TABLES: 7 TABLES # OF CHAIRS: 28 CHAIRS
ACTUAL NUMBER OF SEATS: 28 (OUTDOOR) REQUIRED H.C. SEATING 5% OF TOTAL = 2 SEATS

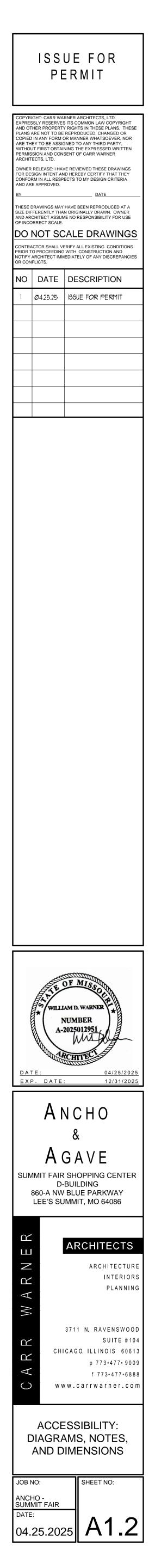
PROVIDED H.C. SEATING:

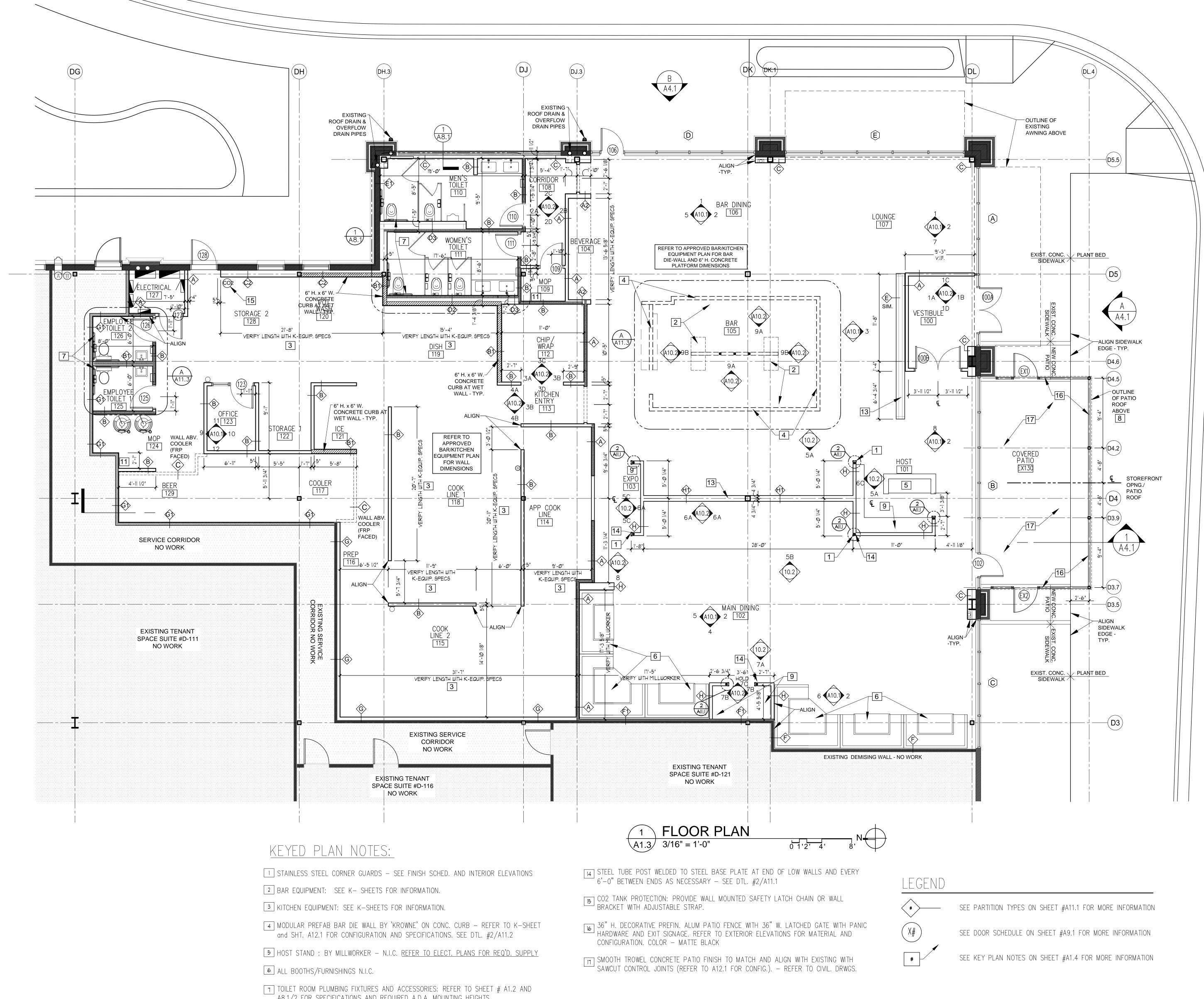
NOTE: BUILDING IS EQUIPPED WITH AN EXISTING APPROVED AUTOMATIC SPRINKLER SYSTEM COMPLYING WITH N.F.P.A. 13 2010 EDITION

= 2 SEATS









- A8.1/2 FOR SPECIFICATIONS AND REQUIRED A.D.A. MOUNTING HEIGHTS.
- B OUTLINE OF METAL PATIO ROOF ABOVE. REFER TO EXTERIOR ELEVATIONS #A4.1 FOR CONFIGURATION.
- 9 POS STATION: G.C. TO COORDINATE LOW VOLTAGE WITH EQUIPMENT SUPPLIER.
- 🔟 KITCHEN HAND SINKS WITH SOAP AND TOWEL DISPENSER, REFER TO K-SHEETS.
- II MOP BASIN AND FAUCET, REFER TO K-SHEET.
- PROVIDE SOLID 3/4" PLYWOOD INWALL BLOCKING/BACKING FOR ALL WALL MOUNTED CABINETRY, SHELVING, PLUMBING & ELECTRICAL FIXTURES, AND MILLWORK. REFER TO INTERIOR ELEVATIONS FOR ROOM CONFIGURATIONS FOR MOUNTING HEIGHTS.
- HALF HEIGHT METAL STUD WALL TO SUPPORT MILLWORK. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION AND DETAILS.

GC TO VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION TO INCLUDE (BUT NOT LIMITED TO):

•OVERALL DIMENSIONS ·HEIGHTS OF EXISTING DECK, JOISTS, BEAMS, ETC.

·COLUMN LOCATIONS

•BEAM / JOIST SPACING & ORIENTATION ·UTILITY SERVICE SIZES (GAS, WATER, SANITARY, ELEC, ETC.), EQUIP & PANEL LOCATIONS, ETC.

NOTIFY ARCHITECT OF ANY DISCREPANCIES THAT PREVENT THE PROJECT FROM BEING BUILT AS CURRENTLY DESIGNED.

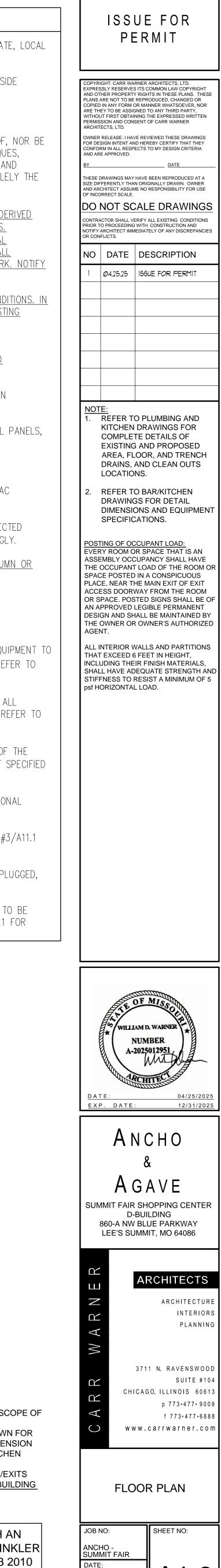
GENERAL PLAN NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE, LOCAL CODES, AND ORDINANCES.
- EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- ALL FIRE RATED DOORS TO BE SELF-CLOSING.
- THE ARCHITECT WILL NEITHER HAVE CONTROL OVER OR CHARGE OF. NOR BE RESPONSIBLE FOR, THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES.
- EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL 'PERMITTED' BUILDING DRAWINGS. CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT BEFORE PROCEEDING.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING
- IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
- REFER TO K-SHEETS FOR KITCHEN AND BAR EQUIPMENT ROUGH-IN REQUIREMENTS AND ADDITIONAL INFORMATION.
- PROVIDE SOLID IN-WALL BLOCKING FOR MILLWORK, SHELVING, WALL PANELS, ETC. REFER TO K-SHEETS FOR ADDITIONAL INFORMATION.
- 10. ALL FINISHES SHALL BE CLASS 1, 0-25 FLAME SPREAD RATING.
- . COORDINATE NEW WALL FRAMING LAYOUT WITH PLUMBING AND HVAC CONTRACTOR TO AVOID INTERFERENCES.
- 12. VERIFY/COORDINATE DOOR AND WINDOW OPENING SIZES WITH SELECTED MANUFACTURER AND ADJUST ROUGH OPENING FRAMING ACCORDINGLY.
- 13. ALL EXTERIOR DIMENSIONS ARE TO CENTER LINE OF EXISTING COLUMN OR FACE OF EXISTING MASONRY
- 14. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISH U.N.O.
- 15. <u>CENTER STUD ON COLUMN LINE (U.N.O.).</u>
- 6. ALL NEW PARTITIONS AT OR ADJACENT TO SINKS AND/OR WET EQUIPMENT TO HAVE $\frac{5}{7}$ CEMENT BOARD IN LIEU OF $\frac{5}{7}$ WATER RESISTANT GB. REFER TO SHT. # A12.1 FOR LOCATIONS.
- 7. INSTALL 5%" CEMENT BOARD (SMOOTH SIDE OUT) FULL HEIGHT AT ALL EXHAUST HOOD LOCATIONS, DISHWASHING AREA, AND MOP AREA. REFER TO SHT. #A12.1 FOR LOCATIONS.
- 18. INSTALL 5%" WATER RESISTANT GYP. BD. AT ALL KITCHEN (BACK OF THE HOUSE) AREAS AND TOILET ROOMS WHERE CEMENT BOARD IS NOT SPECIFIED OR DETAILED. REFER TO SHT. #A12.1 FOR LOCATIONS.
- 19. REFER TO FLOOR FINISH PLAN AND FINISH SCHEDULES FOR ADDITIONAL PARTITION REQUIREMENTS AND WALL FINISH CONFIGURATIONS.
- 20. REFER TO SHEET # A11.1 FOR INTERIOR WALL TYPES AND DETAIL #3/A11.1 FOR TILE FLOORING BASE.
- 21. ALL EXPOSED CONCRETE FLOOR PENETRATIONS TO BE PROPERLY PLUGGED, SEALED, AND WATERPROOFED.
- 22. FIRE EXTINGUISHERS SUPPLIED BY G.C. QUANTITY AND LOCATIONS TO BE COORDINATED WITH LOCAL FIRE DEPARTMENT. REFER TO SHT. #A1.1 FOR TYPES.

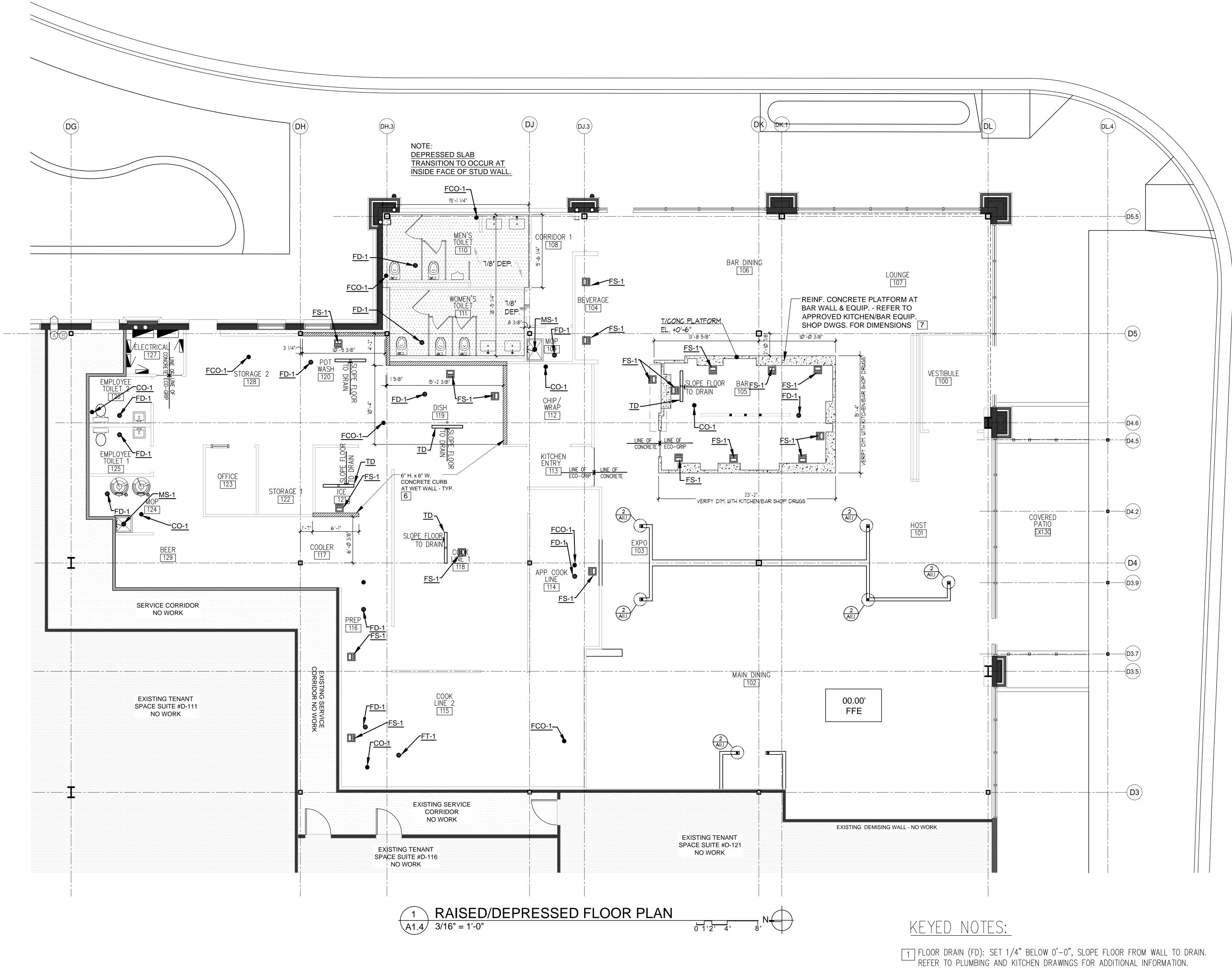
1. REFER TO MEP/FP DRAWINGS FOR ADDITIONAL SCOPE OF WORK INFORMATION. 2. FURNITURE AND KITCHEN/BAR EQUIPMENT SHOWN FOR

COORDINATION PURPOSES ONLY. CONFIRM DIMENSION AND REQUIREMENTS WITH FURNITURE AND KITCHEN EQUIPMENT VENDOR AND OWNER/DESIGNER. 3. SIGNAGE SHALL BE PLACED AT MAIN ENTRANCE/EXITS STATING; DOOR SHALL NOT BE LOCKED WHILE BUILDING IS "OCCUPIED".

NOTE: BUILDING IS EQUIPPED WITH AN EXISTING APPROVED AUTOMATIC SPRINKLER SYSTEM COMPLYING WITH N.F.P.A. 13 2010 EDITION



04.25.2025 AIJ



[2] FLOOR SINK (FS): SET 1/4" BELOW 0'-0", SLOPE FLOOR FROM WALL TO DRAIN. REFER TO PLUMBING AND KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.

3 TRENCH DRAIN (TD): SLOPE FLOOR FROM WALL TO DRAIN. REFER TO PLUMBING AND KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.

4 HUB DRAIN (HD): REFER TO PLUMBING AND KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.

5 CLEAN OUT (FCO): REFER TO PLUMBING AND KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.

6 6" H. REINF. CONCRETE WALL CURB. REFER TO STRUCTURAL DRWGS. FOR ADDITIONAL INFORMATION.

7 REINF. CONC. BAR PLATFORM - REFER TO K-SHEET and SHT. A12.1 FOR CONFIGURATION AND SPECIFICATIONS. SEE DTL. #2/A11.2

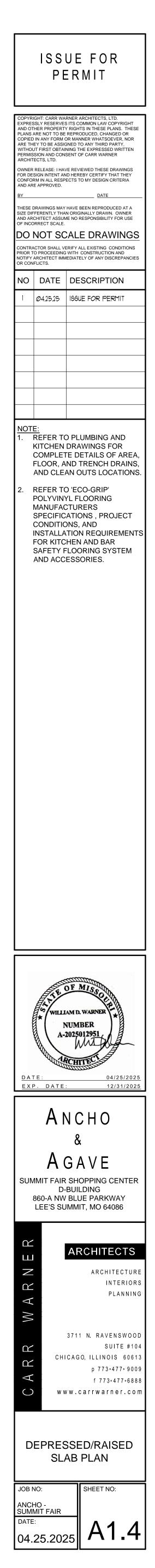
8 MOP BASIN (MS): REFER TO PLUMBING DRAWINGS AND K-SHEET.

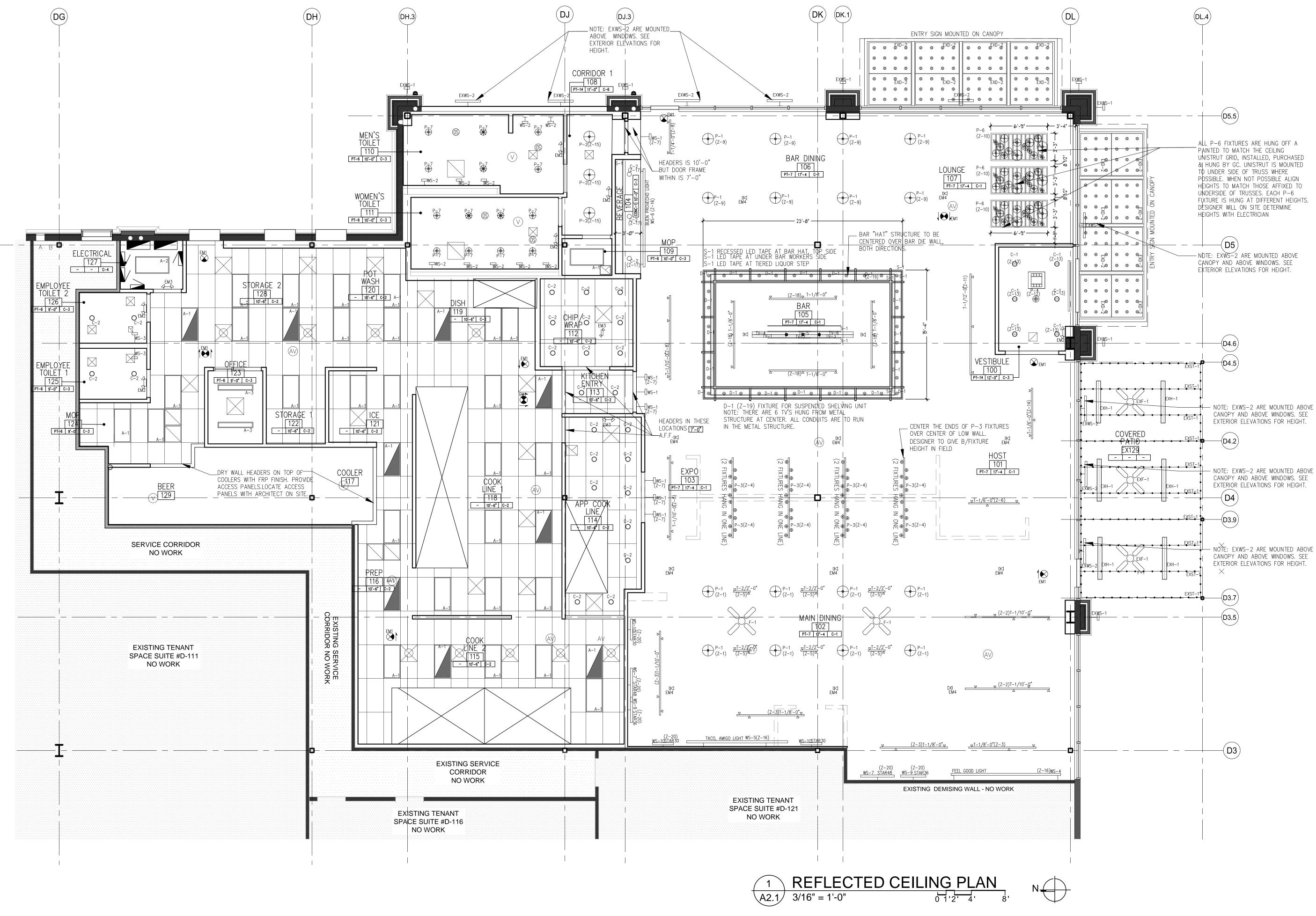
NOTE: 1. REFER TO MEP/FP DRAWINGS FOR ADDITIONAL SCOPE OF WORK INFORMATION. 2. FURNITURE AND KITCHEN/BAR EQUIPMENT SHOWN FOR

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IS "OCCUPIED".

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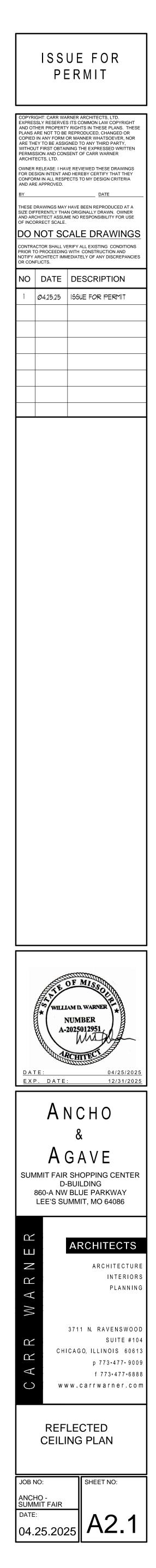
CEILING FINISHES DESCRIPTION SYMBOL PAINTED EXPOSED STRUCTURE WITH BARRIER SPRAY TECHNOLOGIES – ACOUSTIC SPRAY K13 MUST SPRAY C-1 2" THICK COLOR TBD CONTACT 612.789.1130 2'-0" X 4'-0" VINYL FACED GYP. BD. CEILING TILE C-2 5/8" GYPSUM BOARD CEILING PAINTED C-3 C-4 OPEN TO EXISTING STRUCTURE C-5 FIRE TREATED STAINED CEDAR SAMPLE TAGS - CEILING FINISH — CEILING HEIGHT (A.F.F.) —— CEILING MATERIAL PT-X 9'-0" C-1

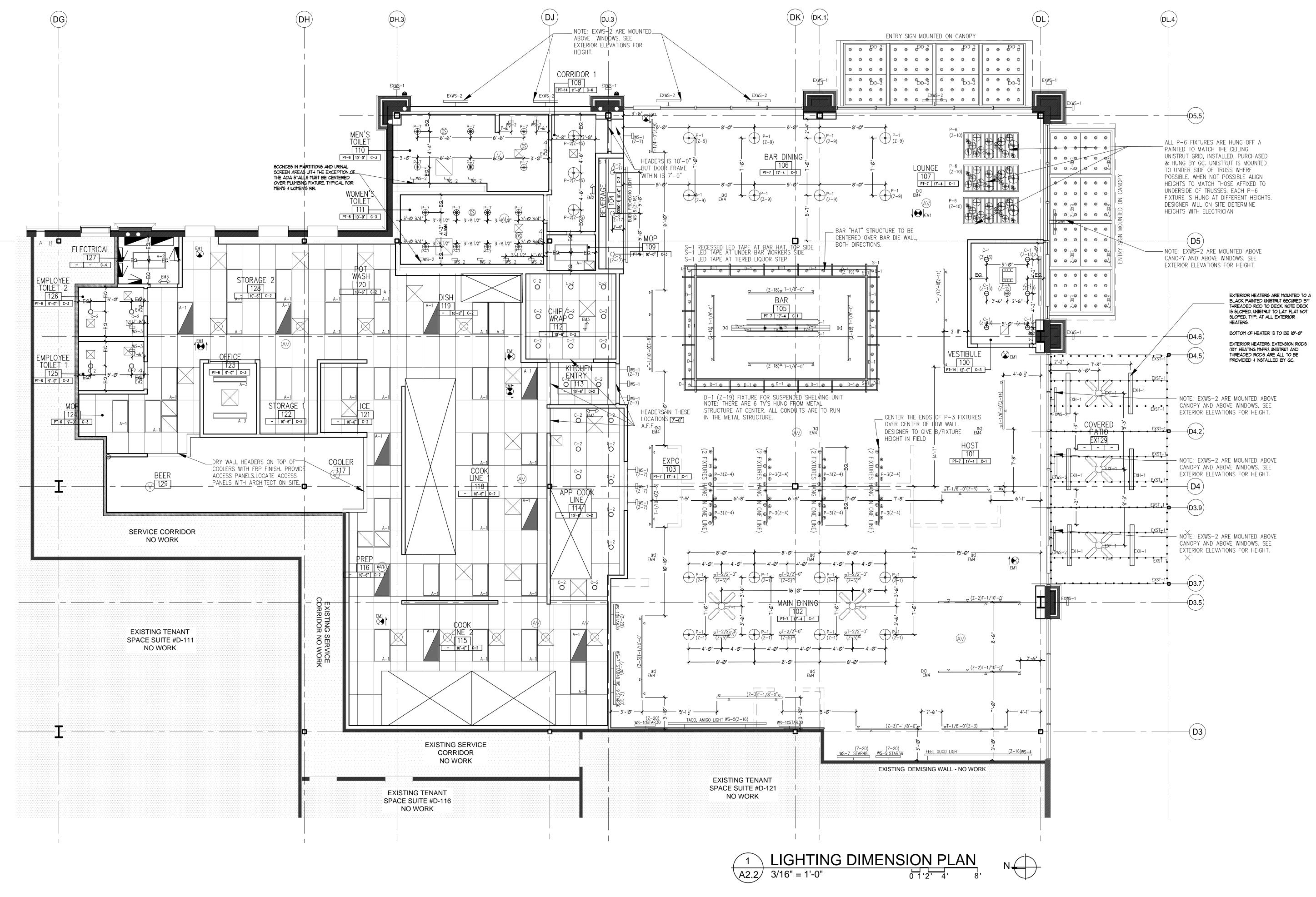
BY GC.

GENERAL NOTES

- CENTER ALL FIXTURES IN CEILING TILES & FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LAYOUT (TO MATCH DRAWINGS). ALIGN ALL FIXTURES IN BOTH DIRECTIONS (LAY OUT GRIDS SO THAT ALIGNMENT IS CONSISTENT).
- 3. ALL WIRING IN CEILING MUST BE IN RIGID CONDUIT.
- 4. E.C. TO VERIFY ALL LOCATIONS OF WALL MOUNTED J-BOXES FOR SCONCES AND CLOCK OUTLETS w/ OWNER PRIOR TO INSTALLATION.
- 5. G.C. TO PAINT ALL GYP. BD. CEILINGS AND SOFFITS.
- 6. 2" REQUIRED FOR ACOUSTIC SPRAY K13 COLOR TBD
- 7. ALL FIXTURES FRONT OF HOUSE THAT ARE IN OPEN CEILING MUST BE HUNG ON PAINTED (TO MATCH CEILING) UNISTRUT.
- 8. ALL EXPOSED DUCTS, GRILLS, TRUSSES, ELECTRICAL CONDUIT, UNISTRUT ARE TO BE PAINTED TO MATCH THE K-13 ACOUSTICAL SPRAY. PT-15 SEE FINISH LEGEND FOR COLOR. BY GC

RCP LEGEND					
SYMBOL	DESCRIPTION				
	2' x 2' RETURN AIR GRILL REFER TO M-SHEETS FOR MORE INFO.				
	2' x 2' SUPPLY AIR DIFFUSER REFER TO M-SHEETS FOR MORE INFO.				
	1' x 1' EXHAUST FAN REFER TO M-SHEETS FOR MORE INFO.				





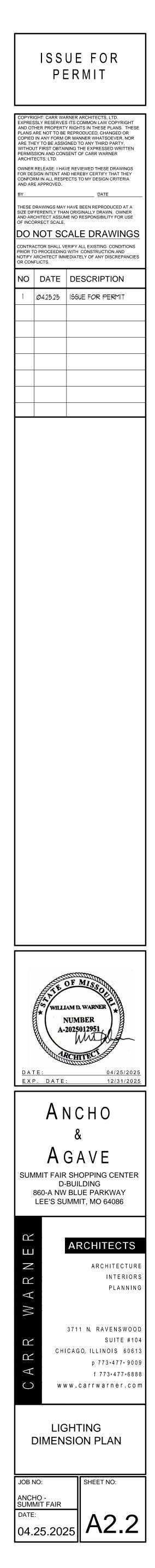
	CEILING FINISHES	
SYMBOL	DESCRIPTION	1.
C-1	PAINTED EXPOSED STRUCTURE WITH BARRIER SPRAY TECHNOLOGIES – ACOUSTIC SPRAY K13 MUST SPRAY 2" THICK COLOR TBD CONTACT 612.789.1130	2.
C-2	2'-0" X 4'-0" VINYL FACED GYP. BD. CEILING TILE	- 3. 4.
C-3	5/8" GYPSUM BOARD CEILING PAINTED	
C-4	OPEN TO EXISTING STRUCTURE	5. 6.
C-5	FIRE TREATED STAINED CEDAR	7.
	SAMPLE TAGS	8.
	CEILING FINISH	
	CEILING HEIGHT (A.F.F.)	
	CEILING MATERIAL	

BY GC.

GENERAL NOTES

- CENTER ALL FIXTURES IN CEILING TILES & FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LAYOUT (TO MATCH DRAWINGS). ALIGN ALL FIXTURES IN BOTH DIRECTIONS (LAY OUT GRIDS SO THAT ALIGNMENT IS CONSISTENT).
- ALL WIRING IN CEILING MUST BE IN RIGID CONDUIT.
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	RCP LEGEND
SYMBOL	DESCRIPTION
	2' x 2' RETURN AIR GRILL REFER TO M-SHEETS FOR MORE INFO.
	2' x 2' SUPPLY AIR DIFFUSER REFER TO M-SHEETS FOR MORE INFO.
	1' x 1' EXHAUST FAN REFER TO M-SHEETS FOR MORE INFO.



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DESCRIPTION: 2X4 LED FLAT PANEL LIGHT – RECESSED MANUF: LITHONIA MODEL: CPX-2X4-AL08-SWW7-M2 LAMP: 50.5 WATT LED NOTE: PURCHASED BY OWNER, INSTALLED BY GC	D−1 ⊚	DESCRIPTION: EXPOSED PORCELAIN SOCKET LIGHT UNDER BAR CANOPY MANUF: COMMUNE LIGHT SOCKETS MODEL: MEDIUM BASE LIGHT SOCKET FINISH: BLACK LAMP: 4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER, INSTALLED BY GC	P-1	DESCRIPTION: INDUSTRIAL STYLE DEEP 20" BOWL PENDANT MANUF: STEEL LIGHTING COMPANY MODEL: CUSTOM ROSE BOWL FIXTURE 20" DEEP – W/CUSTOM ROD LENGTH FINISH: GALVANIZED LAMP: 4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER INSTALLED BY GC/FIXTURE REQUIRES SOCKET EXTENDER, OWNER TO PURCHASE EXTENDERS & GC TO INSTALL	S <u>–1</u>	DESCRIPTION: LED ROPE TAPE MANUF: GM LIGHTING/PROFESSIONAL GRADE FLEXIBLE LED TAPE MODEL: LTR-P-12V-1.5W-27K-16 LAMP: 1.5 WATTS PER FOOT NOTE: PURCHASED BY OWNER & INSTALLED BY GC.	DESCRIPTION: FEEL (LAMP:EACH LETTER ROPE LIGHT 12	T TEL GOOD LIGHT OOD LIGHT – 8 INDIVIDUAL LETTER/LIGHTS IT WITH LED STRIP LIGHT WARM WHITE DIMABLE LED V, FLEXIBLE UNDER COUNTER LIGHT NEEDED TO STEP DOWN POWER.
ΈM	DESCRIPTION: EMERGENCY LIGHT – 2X4 LED FLAT PANEL LIGHT – RECESSED MANUF: LITHONIA MODEL: CPX-2X4-AL08-SWW7-M2 LAMP: 50.5 WATT LED DRIVER MNFR: IOTA/ACUITY BRANDS MODEL: ILBLP-CP10-HE-SD-A	EM1	DESCRIPTION: DIRECTIONAL EXIT LIGHT MANUF: LITHONIA LIGHTING MODEL: EDG 1 R EL REMARKS:PROVIDE DUAL FACES, ARROWS, & MOUNTING RODS AS REQ'D. NOTE: PURCHASED BY OWNER & INSTALLED BY GC	P-2	DESCRIPTION: INDUSTRIAL STYLE DEEP 15" BOWL PENDANT MANUF: STEEL LIGHTING COMPANY MODEL: ROSE BOWL FIXTURE WITH CUSTOM ROD LENGTH FINISH: GALVANIZED LAMP: 4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER INSTALLED BY GC		DESCRIPTION: TRACK WITH LED HEADS/VARIOUS LENGTHS SEE RCP MANUF: JUNO – TRAC MASTER SERIES MODEL: R600L-G2 –27K-80CRI-DIMMABLE-NFL-BL FINISH: BLACK LAMP: NARROW LED FLOOD LIGHT NOTE: LAMP & FIXTURE PURCHASED BY OWNER INSTALLED BY GC.	NOTE: PURCHASED E LOCATION ON SITE.	Y OWNER INSTALLED BY GC. DESIGNER TO PROVIDE EXACT ILL CORDS, POWER TO BE CONCEALED, BEHIND EACH LETTER.
	10WATT EMERGENCY LED DRIVER NOTE: GC TO FIELD INSTALL EM DRIVER OWNER TO PURCHASE FIXTURE AND DRIVER SHADED LIGHTS ARE EM FIXTURES DESCRIPTION: 2X4 LED FLAT PANEL LIGHT – SURFACE MOUNTED	EM2	DESCRIPTION: EMERGENCY LIGHT FIXTURE FRONT OF HOUSE MANUF: SURE LIGHTS – SELDWA SERIES MODEL: SELDA50_SD – SILVER FINISH & WHITE PENDING LOCATION REMARKS: AT AL LOCATIONS AND WHERE REQ'D BY FIRE CODE. NOTE: PURCHASED BY OWNER & INSTALLED BY GC	⊕ ⊕ ⊕ ⊕ ⊕ P-3	DESCRIPTION: CUSTOM MULTI BULB PIPE PENDANT MANUF: BD LIGHTING MODEL: CUSTOM FINISH: GALVANIZED LAMP: 60W EACH/7 LAMPS PER FIXTURE – SIZES OF LAMPS VARY PHYSICALLY NOTE: PURCHASED BY OWNER INSTALLED BY GC, INCLUDING LAMPS	T−2 <u> ▼ ▼ </u>	DESCRIPTION: 2'-O" TRACK WITH LED HEADS MANUF: JUNO - TRAC MASTER SERIES MODEL: R600L-G2 -27K-80CRI-DIMMABLE-NFL-BL FINISH: BLACK LAMP: NARROW LED FLOOD LIGHT	LAMP: 400W LED MA VOLTAGE:LINE VOLTA NOTE: PURCHASED E FIELD.	X GE, DIRECT PLUG BEHIND FIXTURE, ONE OUTLET REQUIRED. Y OWNER INSTALLED BY GC.DESIGNER WILL VERIFY LOCATION I
	MANUF: LITHONIA MODEL: CPX-2X4-AL08-SWW7-M2 WITH 2X4SMKSH- SHALLOW DEPTH SURFACE MOUNT KIT LAMP: 51 WATT LED NOTE: PURCHASED BY OWNER, INSTALLED BY GC DESCRIPTION: DECORATIVE SUSPENDED 4" X 48" LED DIRECT LIGHT MANUF: COOPER LIGHTING/CORELITE - CONTINUA SQ4 MODEL: SQ4-F-0U-100D-930-1-D-UNV-STD-W-AC48-JB-4	ЕМ3	DESCRIPTION: EMERGENCY LIGHT FIXTURE KITCHEN/BACK OF HOUSE MANUF: SURE LIGHTS – APEL SERIES MODEL: APELH2WH – WHITE REMARKS: AT AL LOCATIONS AND WHERE REQ'D BY FIRE CODE. NOTE: PURCHASED BY OWNER & INSTALLED BY GC DESCRIPTION: LED MONO POINT –EMERGENCY LIGHT WILL NEED EM INVERTER – SEE E.SHEETS	€4	DESCRIPTION: FLUSH MOUNT FIXTURE MANUF: SHADES OF LIGHT MODEL: VINTAGE STAR FLUSH MOUNT – FM10022 BZ FINISH: WEATHER BRONZE LAMP: 3 @ 4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER INSTALLED BY GC.		NOTE: LAMP & FIXTURE PURCHASED BY OWNER INSTALLED BY GC. DESCRIPTION: WALL SCONCE STRAIGHT ARM TAP LIGHT MNFR: EDISON LIGHT GLOBES MODEL: SMALL SHADE STRAIGHT ARM TAP AND WALL LIGHT 220MM FINISH: GALVANIZED SHADE: FLAT BLACK LAMP:4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER	DESCRIPTION: BUENE P LAMP: 400W LED MAX	, DIRECT PLUG BEHIND FIXTURE/2 OUTLETS REQUIRED 1 FOR OWNER INSTALLED BY
	LAMP: 10 WATT LED NOTE: PURCHASED BY OWNER, INSTALLED BY GC DESCRIPTION: 3 1/2" LED RECESSED WALL WASH – DIMMABLE	EM4	MANUF: JUNO – TRAC MASTER SERIES MODEL: R600L-G2 –27K-80CRI-DIMMABLE-NFL-BL FINISH: BLACK LAMP: NARROW LED FLOOD LIGHT TRACK, LAMP AND INVERTER PURCHASED BY OWNER & INSTALLED BY GC.	P-5	NOT USED	- 	INSTALLEÓ BY GC NOTE: PURCHASED BY OWNER INSTALLED BY GC. DESCRIPTION: WALL SCONCE ENAMEL SHADE FOR GUEST TOILET ROOM MNFR: REJUVENATION		, DIRECT PLUG BEHIND FIXTURE/1 OUTLET REQUIRED
C-1	MANUF: COOPER LIGHTING - PORTFOLIO COLLECTION MODEL: LDA3B-10-R40-90-27 - DIMMABLE FINISH: SELF FLANGE- SPECULAR CLEAR LAMP: 9 WATT LED/PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER, INSTALLED BY GC DESCRIPTION: 6" LENSED DOWNLIGHT	F-1	DESCRIPTION: INTERIOR CEILING FAN MANUF: MATHEWS FAN COMPANY/LIGHTING NEW YORK MODEL: DG-BK-MTL - NO LIGHT KIT USED LAMP/WATTS: 18W REMARKS: INSTALL WITH EXTENSION RODS. DESIGNER TO PROVIDE B/FIXTURE		DESCRIPTION: DECORATIVE PENDANTS – 15 DIFFERENT STYLES A-N LAMP: 4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC NOTE: THESE FIXTURES MOUNTED TO A PAINTED UNISTRUT GRID FRAME/FRAME IS FABRICATED BY GC- FIXTURES ARE PURCHASED BY OWNER INSTALLED BY GC. FIXTURES HANG AT MULTIPLE DIFFERENT HEIGHTS, FINAL HEIGHT PLACEMENT TO	⊥ ₩S-2	MODEL: CARSON 12" WALL SCONCE FINISH: GALVANIZED SHADE: GLOSS WHITE LAMP:4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC NOTE: THESE FIXTURES ARE CENTERED OVER TOILET FIXTURES AND SINKS.	NOTE: PURCHASED BY GC.DESIGNER WILL VER WS-8 30 STAR DESCRIPTION: 30" STAR	FY LOCATION IN FIELD.
O	MANUF: LITHONIA LIGHTING MODEL: RB56SWW5MWM6 FINISH: WHITE BAFFLE & LENSED REFLECTOR LAMP: 15W LED 2700K PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER, INSTALLED BY GC		NOTE: PURCHASED BY OWNER, INSTALLED BY GC	₽-7	BE SET ON SITE WITH DESIGNER DESCRIPTION: FLUSH MOUNTED PENDANT IN RESTROOM MANUF: SCHOOLHOUSE ELECTRIC MODEL: NORFOLK 4" FITTER WITH NATURAL BRASS FINISH: GRAY BANDS OGEE SHADE LAMP: 6W PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER INSTALLED BY GC.	二 WS-3	VERIFY WITH DESIGNER PRIOR TO INSTALLATION. NOTE: PURCHASED BY OWNER INSTALLED BY GC. DESCRIPTION: WALL SCONCE ENAMEL SHADE FOR EMPLOYEE TOILET ROOM MNFR: REJUVENATION MODEL: CARSON 12" WALL SCONCE FINISH: GALVANIZED SHADE: EUCALYPTUS LAMP:4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER INSTALLED BY GC.	NOTE: PURCHASED BY FIELD. WS-9 36 STAR DESCRIPTION: 36" STAF LAMP: 100W LED MAX VOLTAGE: LINE VOLTAG	

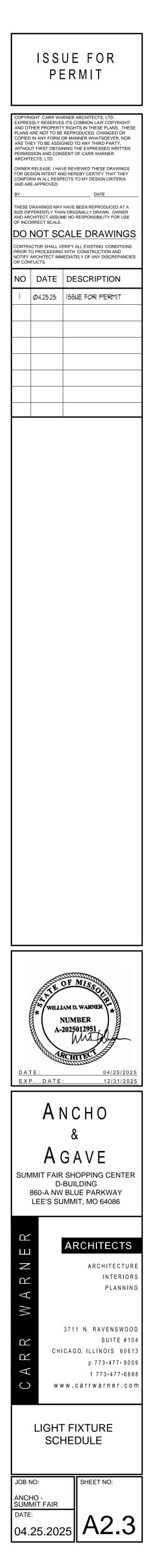
NOTE:

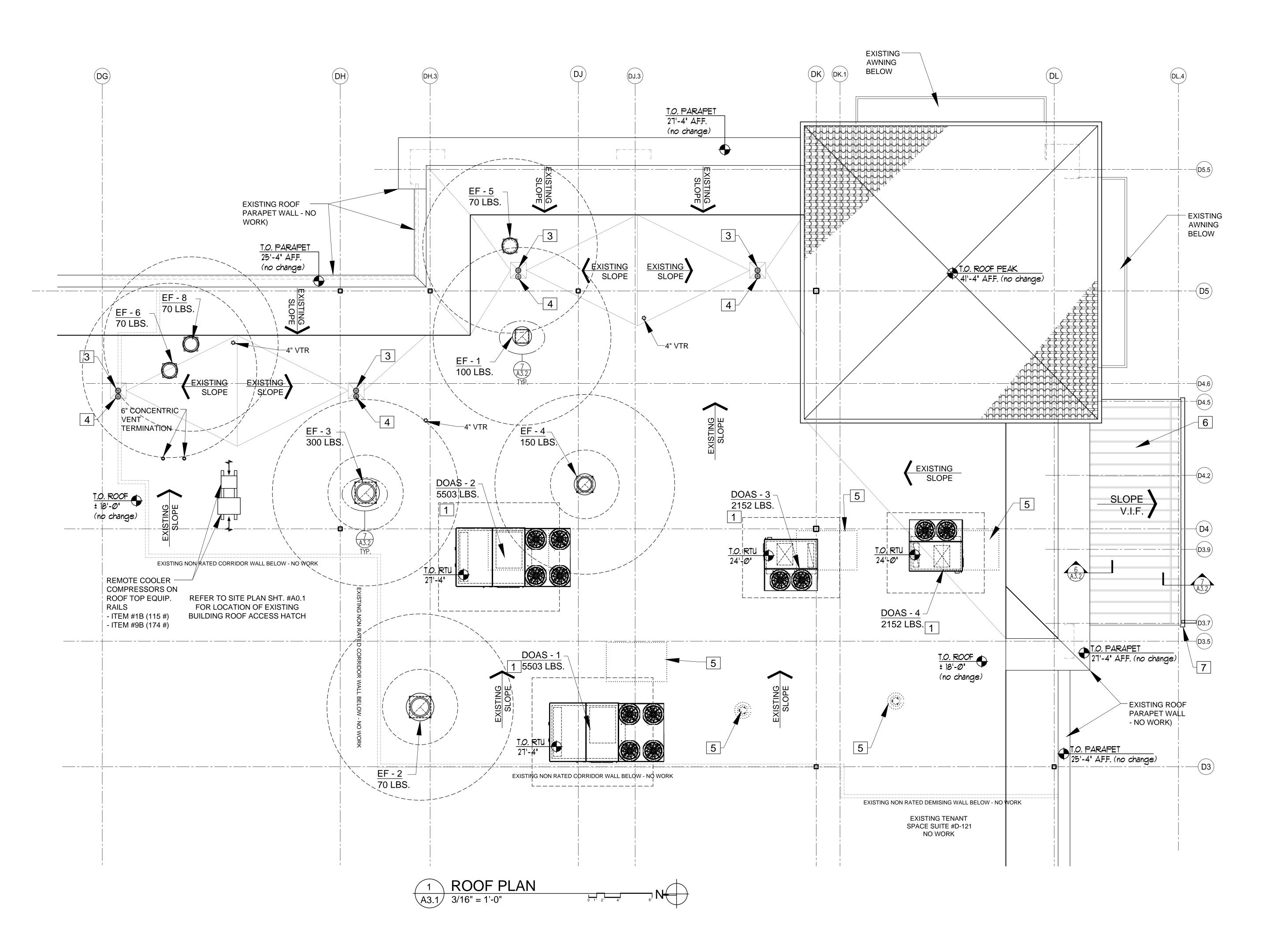
ALL INTERIOR PENDANTS, TRACKS AND FANS IN OPEN CEILING AREA ARE TO BE HUNG ON UNISTRUT - PAINTED TO MATCH THE CEILING. UNISTRUT IS PURCHASED AND INSTALLED BY GC. HEIGHT TO BE VERIFIED BY DESIGNER PRIOR TO INSTALLATION. GC IS TO PAINT UNISTRUT PRIOR TO LIGHTING INSTALLATION

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
EXF-1	DESCRIPTION: OUT DOOR FAN MANUF: MATHEWS FAN COMPANY/LIGHTING NEW YORK MODEL: DGLK-BN-MTL - NO LIGHT KIT USED LAMP/WATTS: 18W REMARKS: NOTE: PURCHASED BY OWNER, INSTALLED BY GC INSTALL WITH EXTENSION RODS. DESIGNER TO PROVIDE B/FIXTURE	EXWS-1	DESCRIPTION: WALL SCONCE ENAMEL SHADE MNFR: REJUVENATION MODEL: CARSON 12" WALL SCONCE FINISH: GALVANIZED SHADE: GLOSS HONEY YELLOW LAMP:4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC NOTE: PURCHASED BY OWNER INSTALLED BY GC.
EXH-1	DESCRIPTION: EXTERIOR HEATER ROD MOUNTED MANUF: BROMIC MODEL: 6000W SERIES, TUNGSTEN SMART ELEC WITH TUNGSTEN ELEC MOUNTING POLES FINISH: BLACK NOTE: THESE ARE POLE MOUNTED, B/FIXTURE IS AT 10'-0" PURCHASED BY GC & INSTALLED BY GC GC TO PURCHASE RODS LENGTH DETERMINED BY DESIGNER	EXWS-2	DESCRIPTION: EXTERIOR STAR LIGHT MANUF: ARCHER SIGNS MODEL: CUSTOM REVERSE LIT/EDGE LIT METAL STAR FINISH: BLACK LAMP: 32 WATT LED NOTE: PURCHASED BY OWNER INSTALLED BY OWNER'S SIGN INSTALLER.
EXST-1	DESCRIPTION: MANUF: AMERICAN LIGHTING MODEL: FINISH: BLACK LAMP: LED SIGN LIGHT BULB .65 WATTS MEDIUM BASE, SUN WARM WHITE, PLASTIC BULB AND NO TAIL ON STRING LIGHTS NOTE: PURCHTASECTORSYCONNMERCIALINGETANCY EDUBY STRING LIGHTS COMMERCIAL GRADE HEAVY DUTY OUTDOOR STRING LIGHTS	e e e e e e e e e e e e EXD−2	DESCRIPTION:12 LAMP EXTERIOR EXPOSED PORCELAIN MARQUEE LIGH MANUF: ARCHER SIGNS FINISH: BLACK LAMP: 4.5W LED/FILAMENT STYLE – PURCHASED BY OWNER INSTALLED BY GC SIZE: VARIES – 2 SIZES PER CANOPY NOTE: PURCHASED BY OWNER, INSTALLED BY GC. GC TO PROVIDE INTERMEDIARY SUPPORTS AS NEEDED AND BLACK METAL TRIM PIECES. EACH FIXTURE HAS ONE WHIP

NOTE:

1. VERIFY ALL EXTERIOR MOUNTING HEIGHTS WITH ARCHITECT **& DESIGNER PRIOR TO INSTALLATION.** ALL EXTERIOR LIGHTS PURCHASED BY OWNER & INSTALLED BY GC.



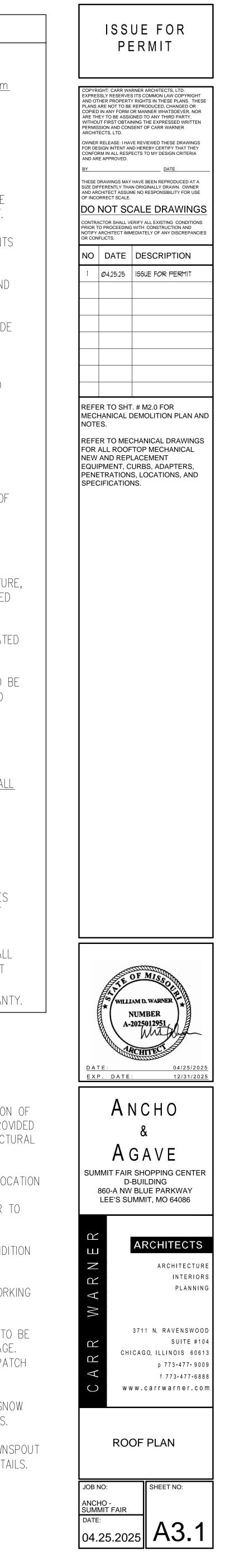


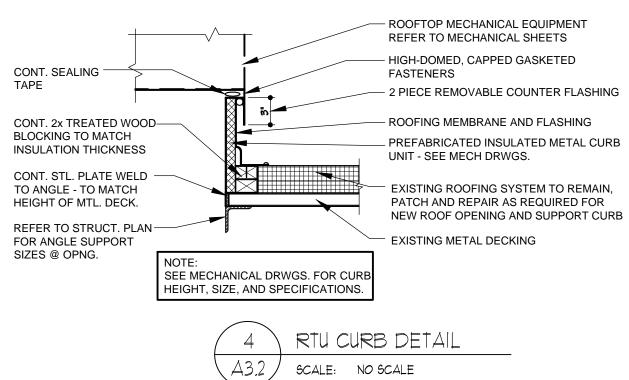
ROOF PLAN NOTES:

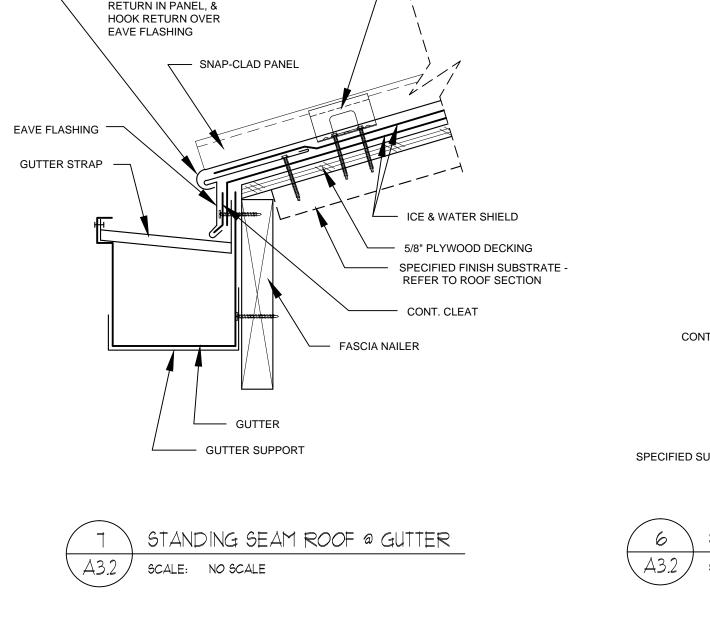
- 1. <u>ANY ROOF PENETRATIONS NEED TO BE COORDINATED WITH LANDLORD'S</u> <u>ROOFING COMPANY: SCHEFERS ROOFING COMPANY, LANCE SCHEFERS</u> <u>lance@schefersroofing.com or BRIAN GEDWILLO,briang@schefersroofing.com</u> <u>(816) 847–1002 (OFFICE)</u>
- 2. REFER TO SHEET #M2.0 FOR ROOFTOP MECHANICAL DEMOLITION PLAN.
- 3. ALL ROOF PENETRATION WORK TO BE DONE BY APPROVED ROOFING CONTRACTOR.
- 4. COORDINATE EXACT LOCATION OF ROOFTOP EQUIPMENT WITH STRUCTURE BELOW. REFER TO STRUCTURAL DRAWINGS FOR ENGINEERED PLACEMENT.
- 5. COORDINATE ALL EQUIPMENT, DUCT SIZES, LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS.
- 6. PROVIDE FLASHING, COUNTER FLASHING AND SEAL ALL ROOF CURBS AND PENETRATIONS PER EXISTING ROOFING SYSTEM.
- 7. ROOFING CONTRACTOR TO INSPECT EXISTING ROOF OVERALL AND PROVIDE TENANT/CLIENT FOR SEPARATE PRICING FOR ANY ADDITIONAL REPAIRS NEEDED.
- 8. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR VTR AND FLUE DETAILS.
- 9. PROVIDE CRICKETS ON ALL ROOFTOP EQUIPMENT CURBS AS SHOWN ON PLAN. VERIFY ROOF PITCH AND COORDINATE EXACT ORIENTATION AS REQUIRED.
- 10. PATCH AND REPAIR ROOFING MEMBRANE SYSTEM AT ALL REMOVED OR MODIFIED ITEMS, IF APPLICABLE. MATCH EXISTING ROOFING SYSTEM, ROOF ASSEMBLY, AND DETAILS.
- 11. ALL ABANDONED PENETRATIONS THRU ROOF TO BE PATCHED TO WEATHERTIGHT CONDITION.
- 12. ALL OPENINGS CREATED BY ANY PENETRATIONS, FOR UTILITIES, STRUCTURE, SIGNAGE, ETC., SHALL BE FILLED WITH MINERAL WOOL AND FIRE CAULKED AS REQUIRED TO MEET HOURLY FIRE RATING.
- 13. PROVIDE TAPERED RIGID INSULATION AS NECESSARY AND WHERE INDICATED TO PROVIDED POSITIVE PITCH TO DRAIN.
- 14. ROOFING DETAILS SHOW DESIGN INTENT FOR EACH CONDITION. WORK TO BE PERFORMED USING ROOFING MANUFACTURER'S MATERIALS, DETAILS, AND SPECIFICATIONS.
- 15. REFER TO MECHANICAL AND KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- 16. <u>ALL FRESH AIR INTAKES SHALL BE LOCATED 15'-0" MIN. AWAY FROM ALL EXHAUST, VENT, OUTLETS, OR OTHER SOURCES OF CONTAMINATES.</u>
- 17. ROOFTOP MECHANICAL EQUIPMENT LOCATION IS SHOWN APPROXIMATE. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR REQUIRED LOCATIONS.
- 18. GENERAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF PROPOSED ROOFTOP EQUIPMENT IN RELATION TO THE JOIST, DUCTS, SYSTEMS PIPES AND ALL STRUCTURE BELOW. REPORT ANY DISCREPANCIES AND ADJUST THE EQUIPMENT LOCATION TO WORK IN THE FIELD.
- 19. ROOFING WORK REQUIRED AS A RESULT OF TENANT PENETRATIONS SHALL BE COMPLETED BY TENANT AS PART OF TENANT'S WORK. TENANT MUST CONTRACT WITH LANDLORD'S ROOFING CONTRACTOR TO COMPLETE ANY SUCH ROOFING WORK IN ORDER TO MAINTAIN LANDLORD'S ROOF WARRANTY.

KEYED ROOF NOTES:

- 1 NEW REPLACEMENT RTU AND CURB or ADAPTER. VERIFY SIZE AND LOCATION OF OPENINGS IN THE FIELD. NOTIFY ARCHITECT IMMEDIATELY IF DIFFERENT. PROVIDED TAPERED ROOF CRICKET FOR CURB AS SHOWN ON DWGS. REFER TO STRUCTURAL AND MECHANICAL DRAWINGS AND MANUFACTURER CUT-SHEETS.
- NEW KITCHEN EXHAUST FAN FOR KITCHEN EQUIPMENT. VERIFY SIZE AND LOCATION OF OPENINGS IN THE FIELD. NOTIFY ARCHITECT IMMEDIATELY IF DIFFERENT. PROVIDED TAPERED ROOF CRICKET FOR CURB AS SHOWN ON DWGS. REFER TO KITCHEN and MECHANICAL DRAWINGS AND MANUFACTURER CUT-SHEETS.
- 3 EXISTING ROOF DRAIN. VERIFY DRAIN SYSTEM IS IN OPTIMAL WORKING CONDITION AND DRAIN IS FREE AND CLEAR OF DEBRIS.
- 4 EXISTING OVERFLOW ROOF DRAIN. VERIFY DRAIN SYSTEM IS IN OPTIMAL WORKING CONDITION AND DRAIN IS FREE AND CLEAR OF DEBRIS.
- **5** REMOVE EXISTING ROOFTOP EQUIPMENT. PATCH AND INFILL ROOF SYSTEM TO BE FLUSH WITH EXISTING ADJACENT ROOFING ASSEMBLY FOR POSITIVE DRAINAGE. VERIFY WITH ROOFING MEMBRANE MANUFACTURER FOR APPROVED INFILL/PATCH SYSTEM. REFER TO SHT. #M2.0 FOR MECH. DEMO. PLAN & NOTES.
- 6 PRE-FINISH 'PAC-CLAD' STANDING SEAM METAL ROOF SYSTEM WITH ICE/SNOW GUARDS, COLOR: GRANITE REFER TO EXTERIOR ELEVATIONS FOR DETAILS.
- CONT. 3"x5" PRE-FINISH ALUM. SEAMLESS BOX GUTTER WITH 3.5"x4" DOWNSPOUT SYSTEM, COLOR: MATT BLACK REFER TO EXTERIOR ELEVATIONS FOR DETAILS.

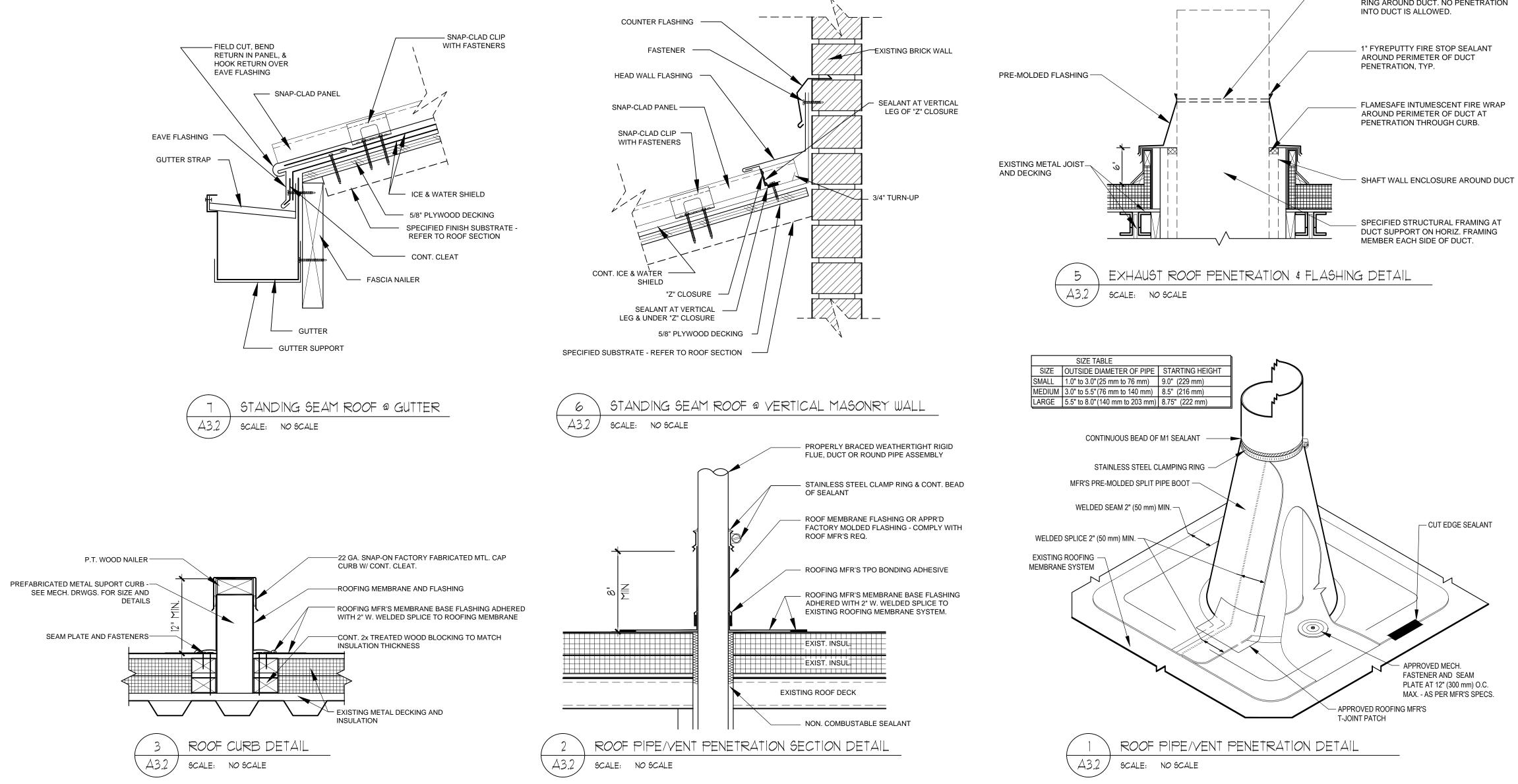


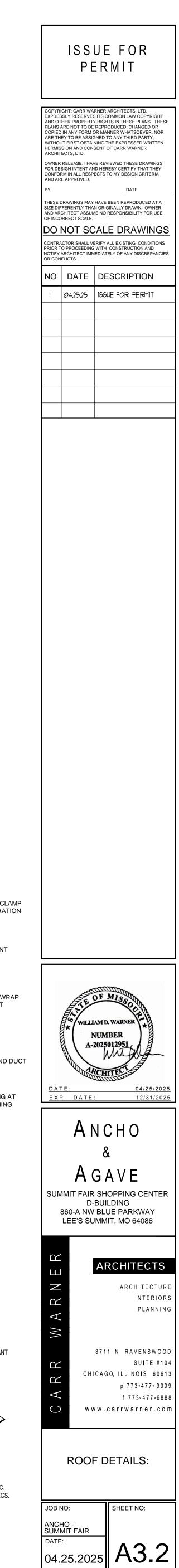




- 2 PIECE REMOVABLE COUNTER FLASHING

EXISTING ROOFING SYSTEM TO REMAIN, PATCH AND REPAIR AS REQUIRED FOR

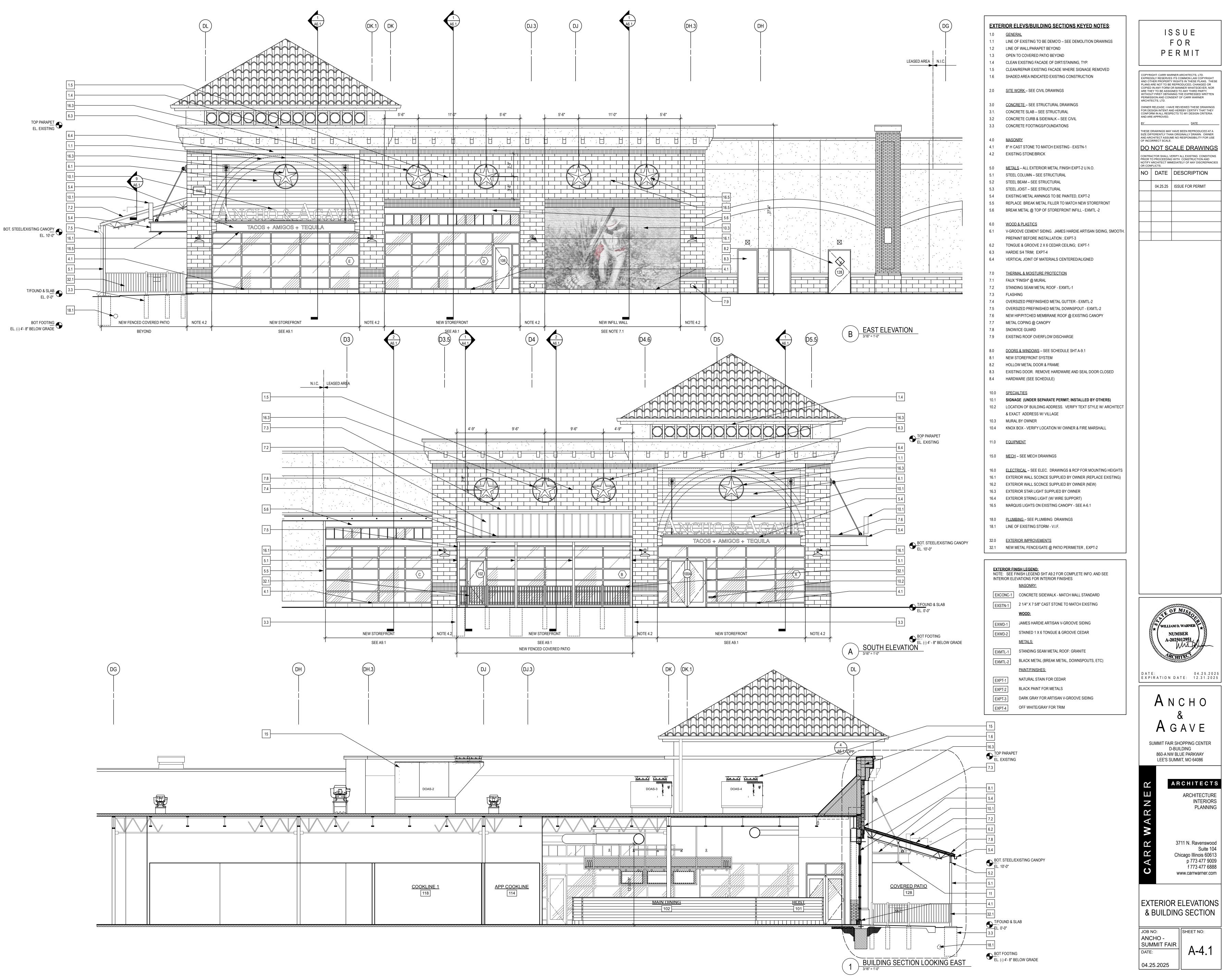


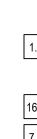


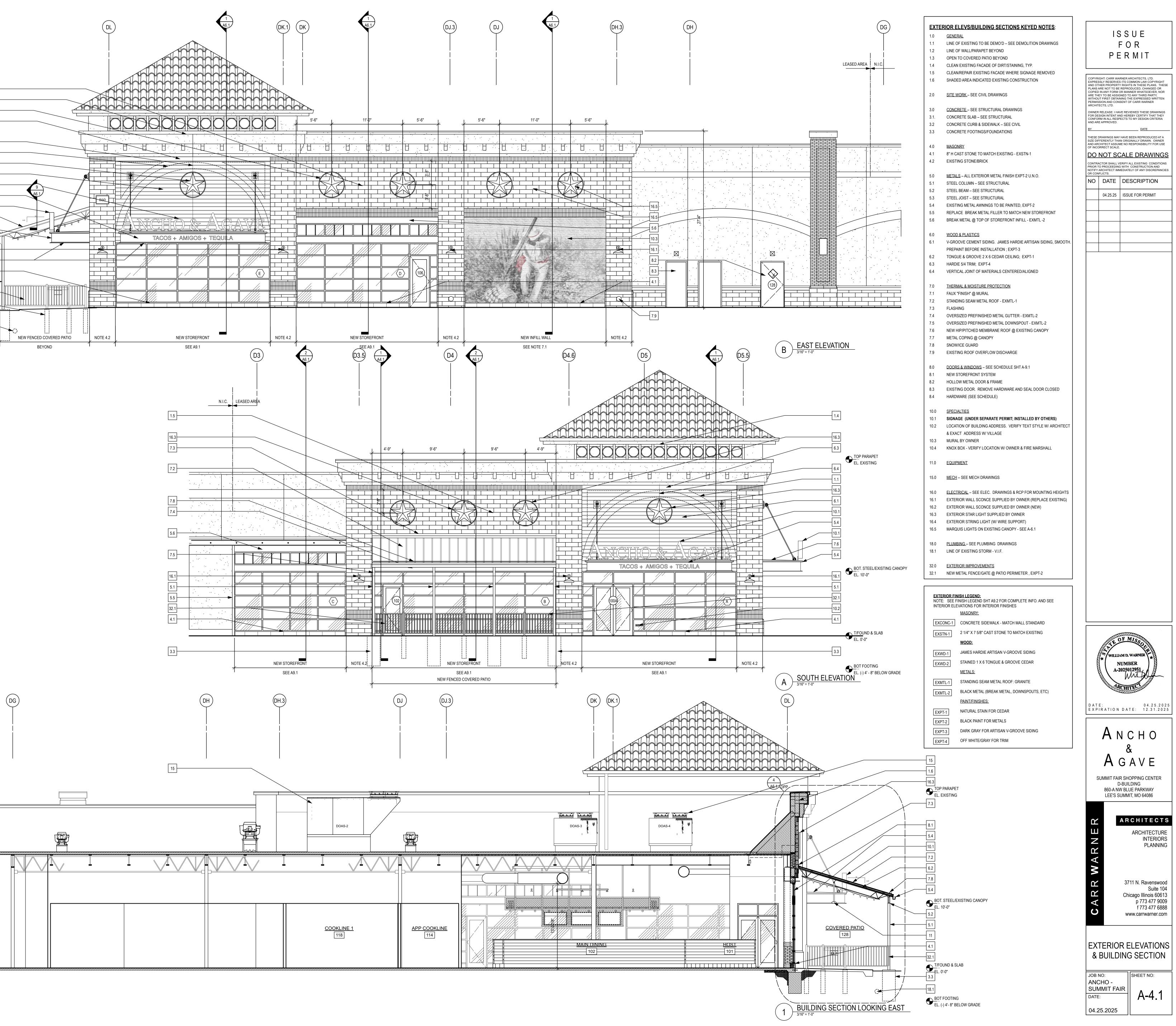
CONTINUOUS STAINLESS STEEL CLAMP
 RING AROUND DUCT. NO PENETRATION

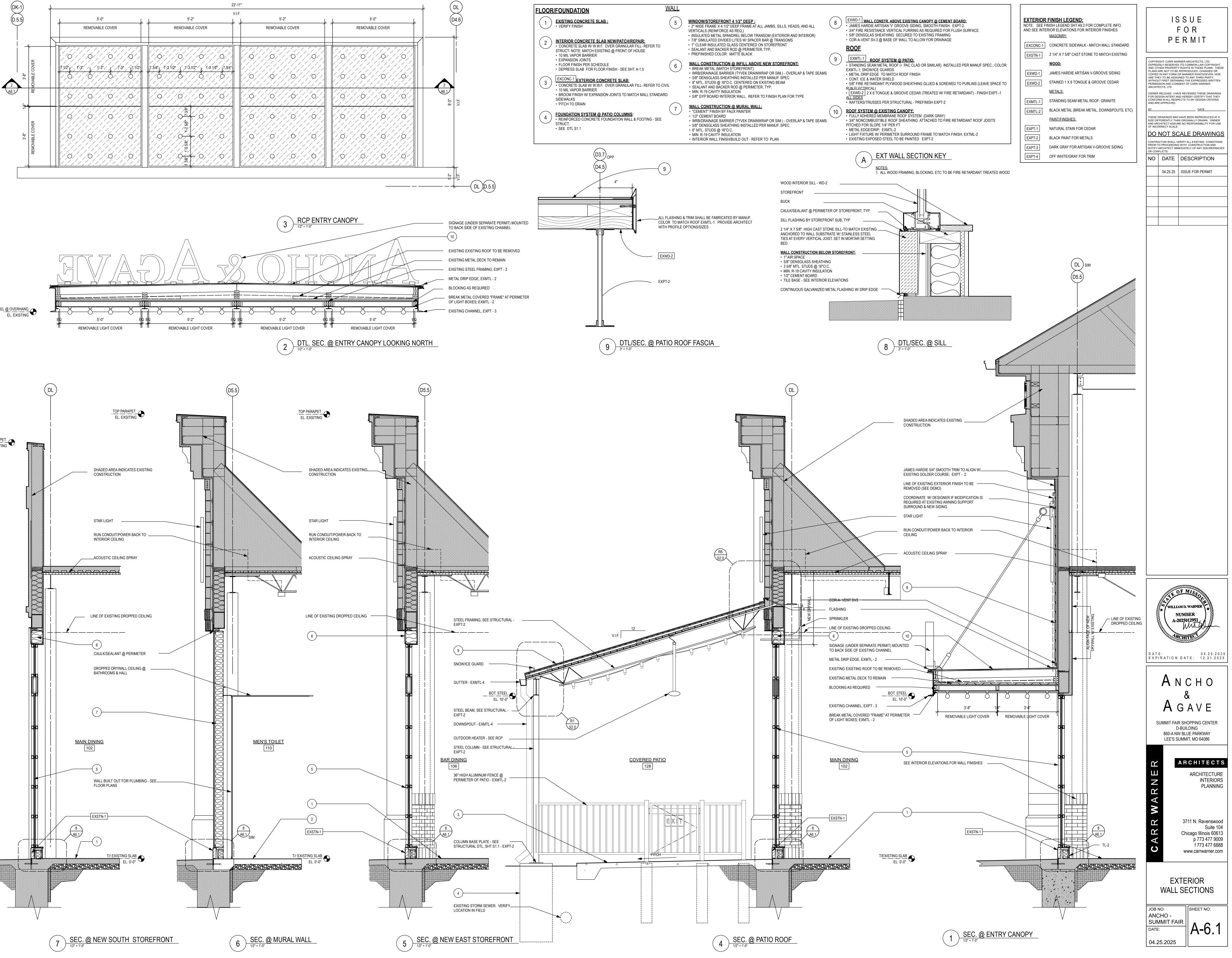
CUT EDGE SEALANT

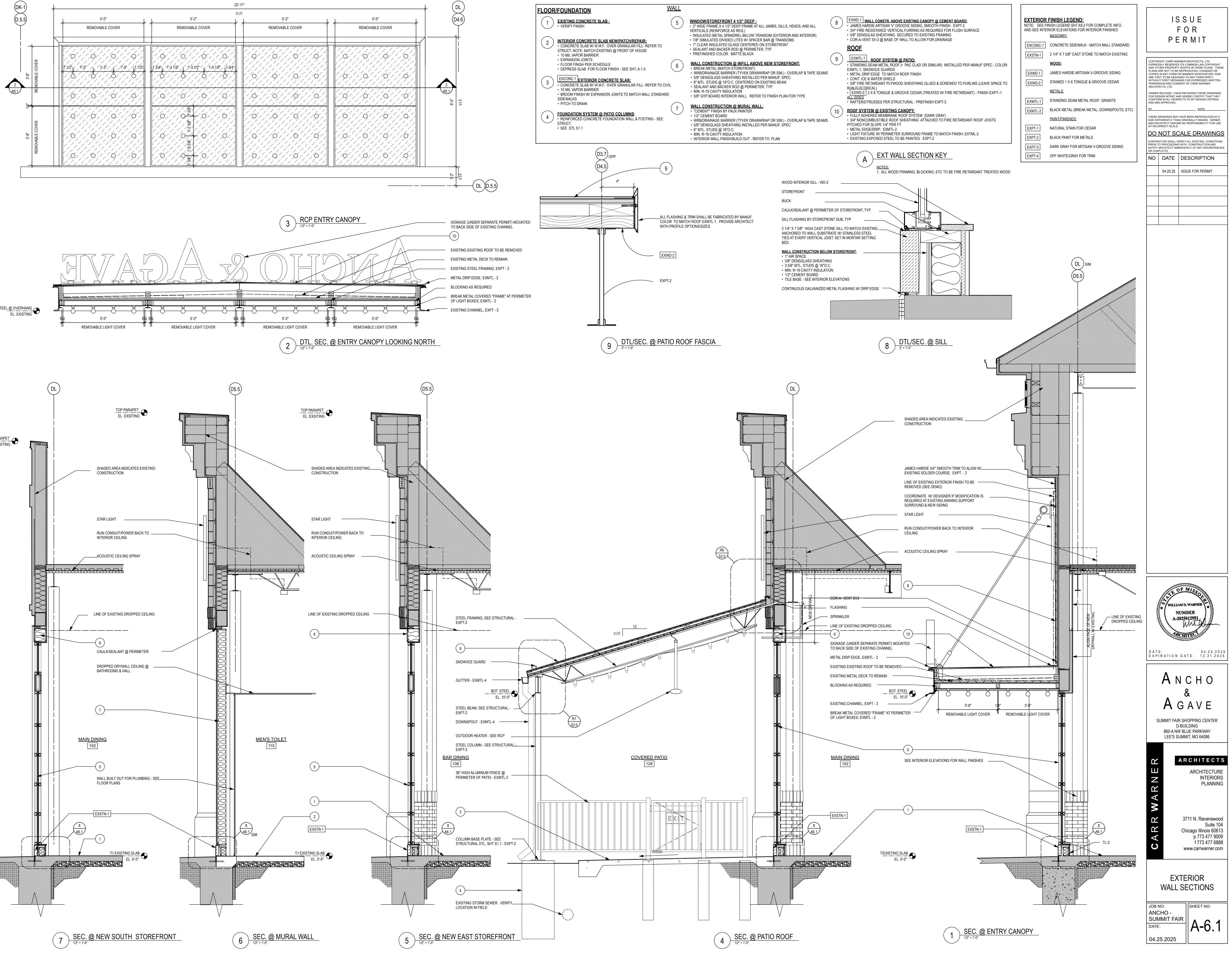
FASTENER AND SEAM PLATE AT 12" (300 mm) O.C. MAX. - AS PER MFR'S SPECS.

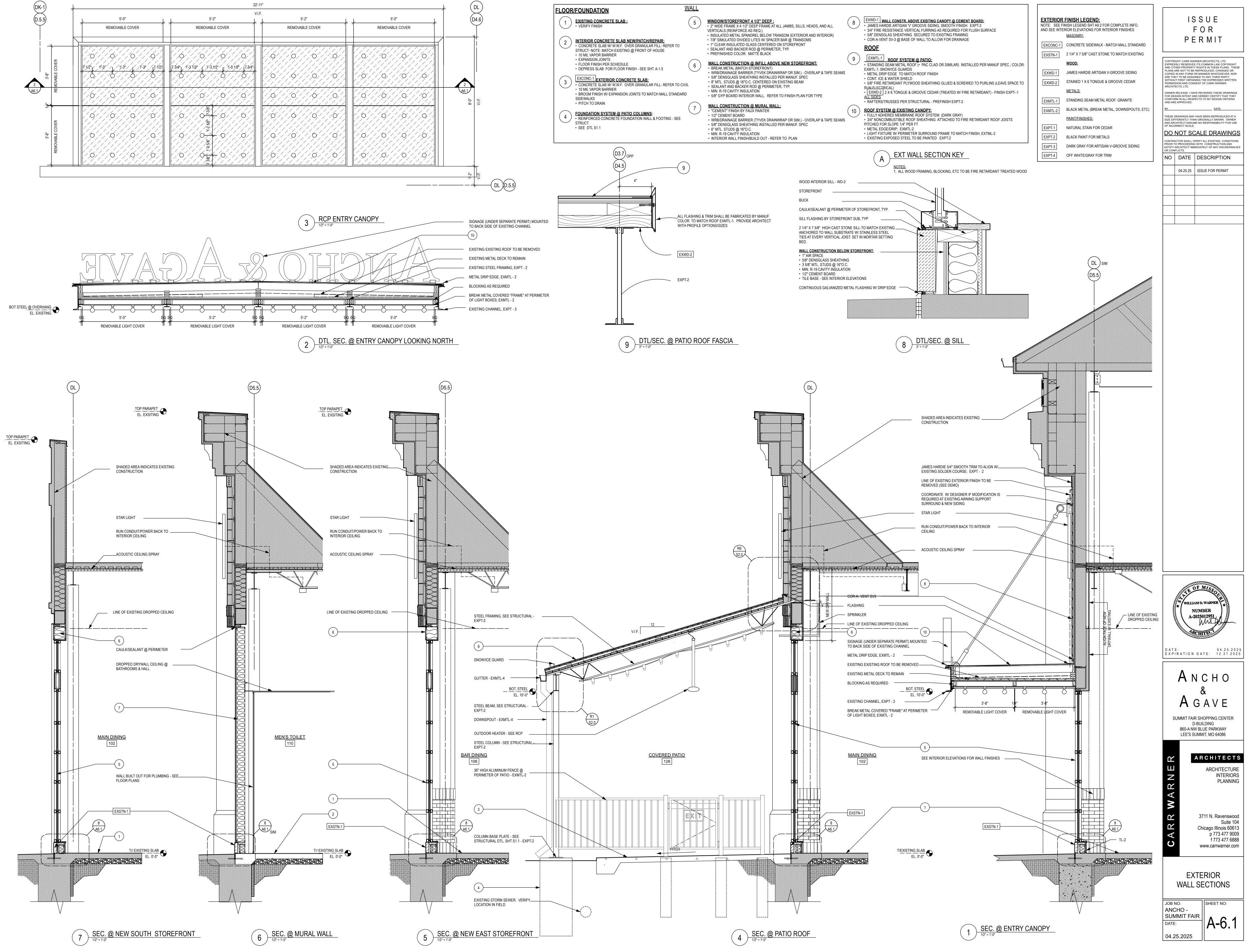


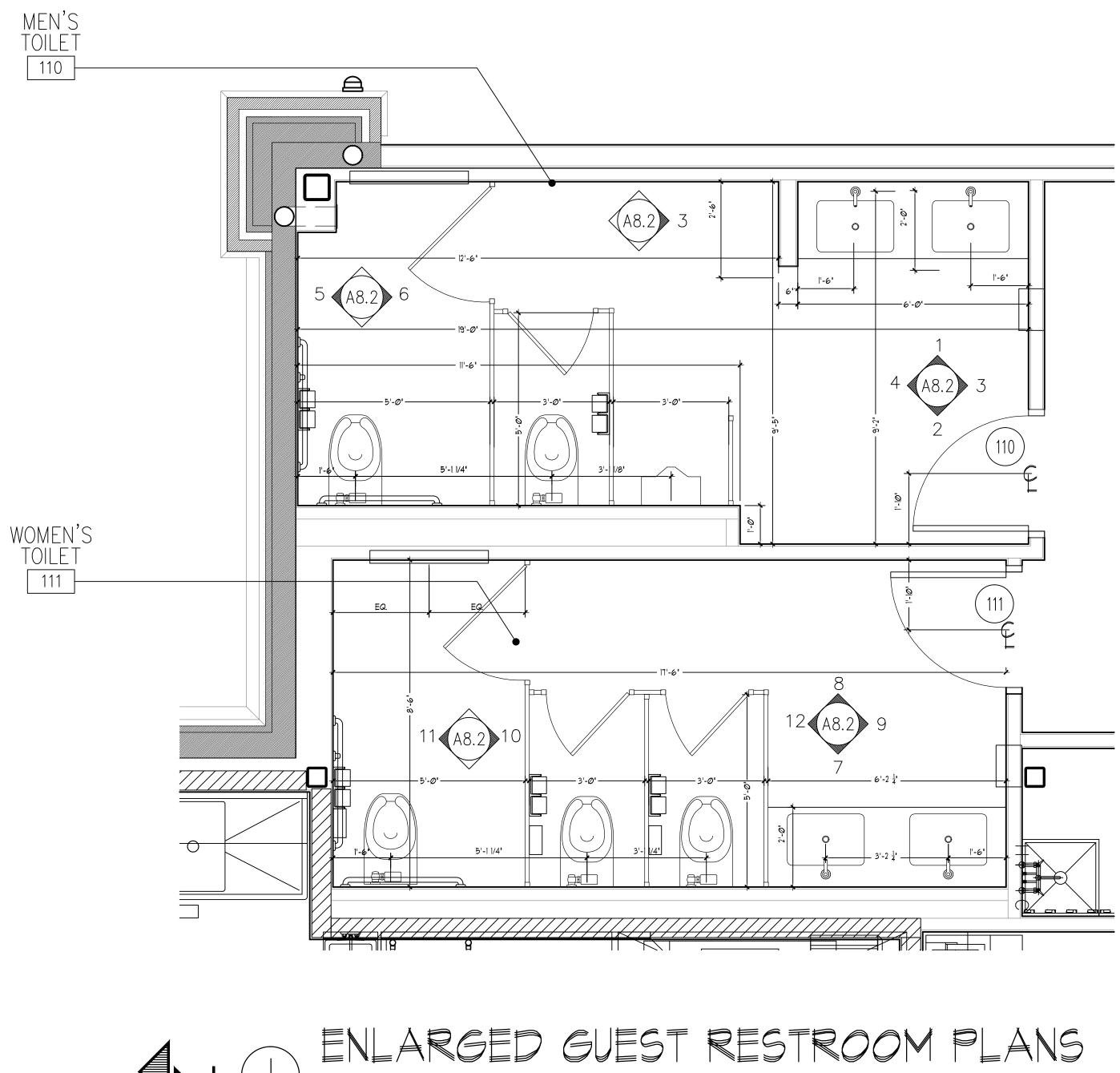




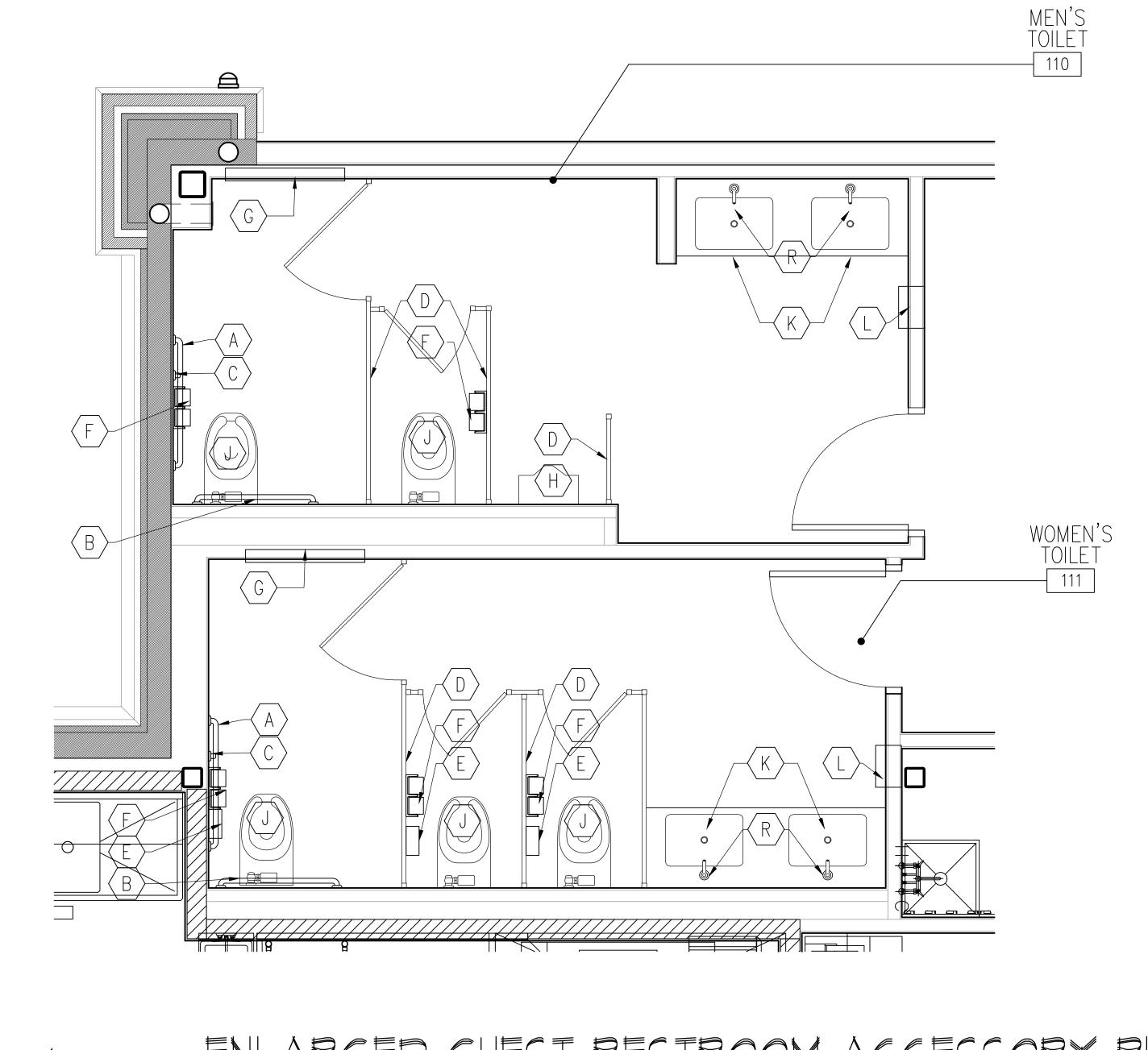








SCALE: |/2" = |'-0"



IN 2 ENLARGED GUEST RESTROOM ACCESSORY PLANS SCALE: 1/2" = 1'-0"

GENERAL NOTES MOUNT ALL FIXTURES AND ACCESSORIES AT HEIGHTS

CONFORMING TO ALL GOVERNING CODES AND A.D.A. REQUIREMENTS WHETHER OR NOT INDICATED.

2. SEE NOTE SECTION OF ITEM FOR RESPONSIBILITY

3. ALL MIRRORS TO HAVE 1" BEVELED EDGES, PROVIDED BY OWNER INSTALLED BY GC.

4. ALL PLUMBING FITTINGS ARE TO BE SUPPLIED BY GC. EVEN IF THE FIXTURE IS SUPPLIED BY OWNER. MILLWORKER TO FABRICATE METAL FRAMED SHIP LAP

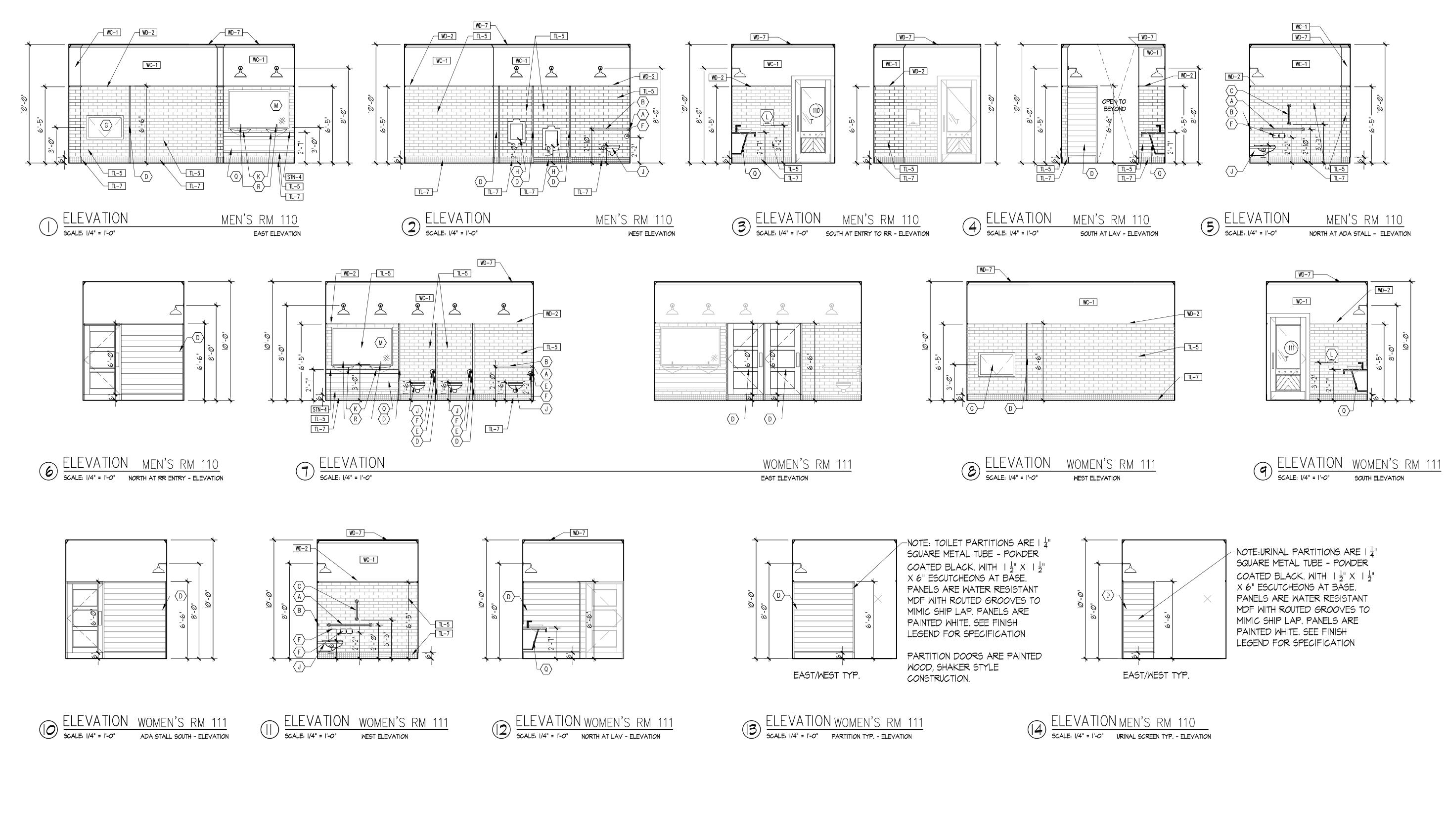
PARTITIONS.

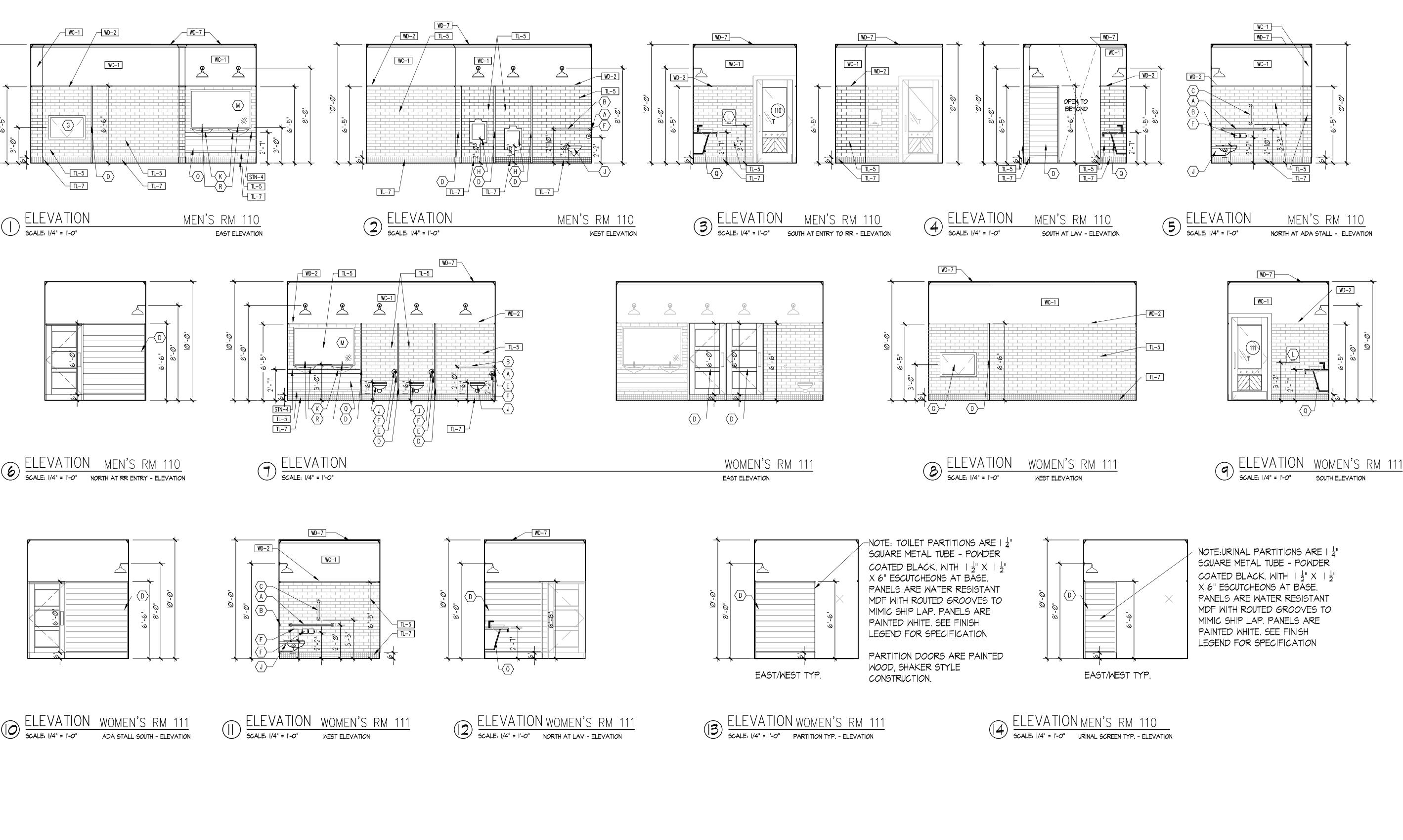
6. VERIFY SINK & FAUCET CUTOUT IN GUEST RESTROOMS PRIOR TO CUTTING OPENINGS FOR BOTH SINK AND FAUCETS.

. PER EQUITABLE RESTROOMS ACT - SINGLE USE EMPLOYEE RESTROOMS ARE TO BE IDENTIFIED AS ALL-GENDER SPECIFIC AND SHALL BE OUTFITTED WITH SIGNAGE ON EXTERIOR SIDE OF WALL, HANDLE SIDE OF DOOR THAT IDENTIFIES AS SUCH. SIGNAGE PROVIDED BY OWNER.

G	GUEST RESTROOM ACCESSORY SCHEDULE						
	حـــــــــــــــــــــــــــــــــــــ	1 1/2" DIAMETER X 3'-6" LONG GRAB BAR MOUNTED 2'-10" A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTING LOCATION) NOTE: PURCHASED & INSTALLED BY GC 1 1/2" DIAMETER X 3'-0" LONG GRAB BAR MOUNTED 2' 10" A F.F. (REFER TO TOULET ROOM DUAN FOR	H		WALL MOUNTED URINAL MNFR: TOTO MODEL: 0.5GPF LOW CONSUMPTION WALL MOUNT WASH OUT URINAL MODEL #: UT104EX COLOR: WHITE AUTO FLUSH VALVE:		WALL MOUNTED AUTOMATIC RECESSED TOWEL DISPENSER GEORGIA PACIFIC – MODEL: enMOTION 59466A FINISH: STAINLESS STEEL MOUNT AT ADA HEIGHT NOTE: PURCHASED BY OWNER & INSTALLED BY GC.
B		2'-10" A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTING LOCATION) NOTE: PURCHASED & INSTALLED BY GC.			MNFR: SLOAN MODEL: URINAL FLUSH VALVE-G2 8180-1.0-GR		CUSTOM MIRROR: PURCHASED BY OWNER & INSTALLED BY OWNER'S INSTALLER
C		1 1/2" DIAMETER X 1'-6" LONG GRAB BAR MOUNTED 3'-4" A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTING LOCATION) -VERTICAL GRAB BAR			NOTE: URINAL & FLUSH VALVES PURCHASED & INSTALLED BY GC. WALL MOUNTED TOILET		ADA COMPLIANT – LAVATORY SCREEN MNFR: MILLWORKER NOTE: PURCHASED & INSTALLED BY GC'S MILLWORKER
		NOTE: PURCHASED & INSTALLED BY GC. CUSTOM TOILET PARTITION – STEEL POWDER COATED FRAME WITH PAINTED SHIP LAP PANELS SEE ELEVATIONS. NOTE: FABRICATED & INSTALLED BY GC'S MILLWORKER	J		MNFR: TOTO MODEL: CT708U(G) COMMERCIAL FLUSHOMETER TOP SPUD WALL-HUNG TOILET COLOR: WHITE AUTO FLUSH VALVE: MNFR: SLOAN	R	GUEST – ADA AUTOMATIC FAUCET MNFR: KOHLER MODEL: TBD COLOR: BLACK NOTE: PURCHASED BY OWNER & INSTALLED BY GC.
E		SURFACE MOUNTED SANITARY NAPKIN DISPOSAL MOUNT TOP OF UNIT 2'-6" A.F.F. U.N.O. MODEL: BOBRICK # B-270 - CONTURA SERIES NOTE: PURCHASED BY OWNER & INSTALLED BY GC.			MODEL: G2 8111–1.28–GR COLOR: GRAPHITE NOTE: TOILET & FLUSH VALVE PURCHASED & INSTALLED BY GC.		BACKING IN WALL FOR ALL NECESSARY
F	•===	SURFACE MOUNTED DOUBLE ROLL TOILET TISSUE DISPENSER MODEL: TBD FINISH: BLACK NOTE: PURCHASED BY OWNER INSTALLED BY GC	K		DROP IN ADA VESSEL SINK MANUF:KOHLER MODEL: IRON PLAINS VESSEL SINK WITH OVERFLOW COLOR: WHITE	-	
G		HORIZONTAL RECESSED BABY CHANGING STATION KOALA BEAR CARE MODEL: KB110-SSRE FINISH: STAINLESS STEEL NOTE: PURCHASED BY OWNER, INSTALLED BY GC.			SIZE: 22 1/2"L X 14" W X 6" D LOCATION: TOP OF SINK TO BE NO HIGHER THAN 34" NOTE: PURCHASED BY OWNER & INSTALLED BY GC		







	GE
1.	MOUNT ALL CONFORMING REQUIREMEN
2.	SEE NOTE SE
3.	ALL MIRRORS OWNER INSTA
4.	ALL PLUMBIN IF THE FIXTU
5.	MILLWORKER PARTITIONS.
6.	VERIFY SINK PRIOR TO CL FAUCETS.
7.	PER EQUITAE RESTROOMS SPECIFIC ANI EXTERIOR SIE IDENTIFIES A

GENERAL NOTES

MOUNT ALL FIXTURES AND ACCESSORIES AT HEIGHTS CONFORMING TO ALL GOVERNING CODES AND A.D.A. REQUIREMENTS WHETHER OR NOT INDICATED.

SEE NOTE SECTION OF ITEM FOR RESPONSIBILITY

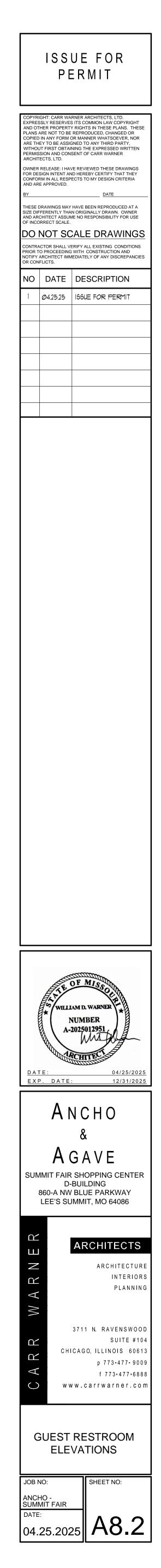
ALL MIRRORS TO HAVE 1" BEVELED EDGES, PROVIDED BY OWNER INSTALLED BY GC.

ALL PLUMBING FITTINGS ARE TO BE SUPPLIED BY GC. EVEN F THE FIXTURE IS SUPPLIED BY OWNER. MILLWORKER TO FABRICATE METAL FRAMED SHIP LAP

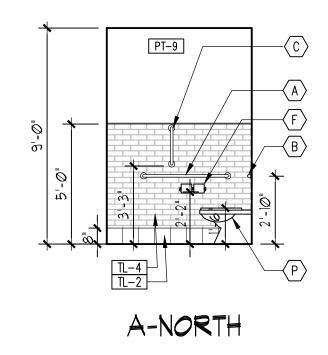
VERIFY SINK & FAUCET CUTOUT IN GUEST RESTROOMS PRIOR TO CUTTING OPENINGS FOR BOTH SINK AND FAUCETS.

PER EQUITABLE RESTROOMS ACT - SINGLE USE EMPLOYEE RESTROOMS ARE TO BE IDENTIFIED AS ALL-GENDER SPECIFIC AND SHALL BE OUTFITTED WITH SIGNAGE ON EXTERIOR SIDE OF WALL, HANDLE SIDE OF DOOR THAT IDENTIFIES AS SUCH. SIGNAGE PROVIDED BY OWNER.

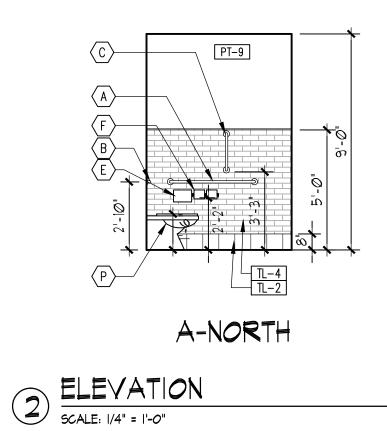
GU	EST RESTROOM ACCESS	OR	Y SCH	IEDULE		
	1 1/2" DIAMETER X 3'-6" LONG GRAB BAR MOUNTED 2'-10" A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTING LOCATION) NOTE: PURCHASED & INSTALLED BY GC 1 1/2" DIAMETER X 3'-0" LONG GRAB BAR MOUNTED			WALL MOUNTED URINAL MNFR: TOTO MODEL: 0.5GPF LOW CONSUMPTION WALL MOUNT WASH OUT URINAL MODEL #: UT104EX COLOR: WHITE	L	WALL MOUNTED AUTOMATIC RECESSED TOWEL DISPENSER GEORGIA PACIFIC – MODEL: enMOTION 59466A FINISH: STAINLESS STEEL MOUNT AT ADA HEIGHT NOTE: PURCHASED BY OWNER & INSTALLED BY GC.
B	2'-10" A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTING LOCATION) NOTE: PURCHASED & INSTALLED BY GC.	(H)		AUTO FLUSH VALVE: MNFR: SLOAN MODEL: URINAL FLUSH VALVE-G2 8180-1.0-GR	M	CUSTOM MIRROR: PURCHASED BY OWNER & INSTALLED BY OWNER'S INSTALLER
	1 1/2" DIAMETER X 1'-6" LONG GRAB BAR MOUNTED 3'-4"A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTINGLOCATION) - VERTICAL GRAB BAR			NOTE: URINAL & FLUSH VALVES PURCHASED & INSTALLED BY GC. WALL MOUNTED TOILET		ADA COMPLIANT – LAVATORY SCREEN MNFR: MILLWORKER NOTE: PURCHASED & INSTALLED BY GC'S MILLWORKER
	NOTE: PURCHASED & INSTALLED BY GC. CUSTOM TOILET PARTITION – STEEL POWDER COATED FRAME WITH PAINTED SHIP LAP PANELS SEE ELEVATIONS. NOTE: FABRICATED & INSTALLED BY GC'S MILLWORKER	J		MNFR: TOTO MODEL: CT708U(G) COMMERCIAL FLUSHOMETER TOP SPUD WALL-HUNG TOILET COLOR: WHITE AUTO FLUSH VALVE: MNFR: SLOAN	R	GUEST – ADA AUTOMATIC FAUCET MNFR: KOHLER MODEL: TBD COLOR: BLACK
E E	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL MOUNT TOP OF UNIT 2'-6" A.F.F. U.N.O. MODEL: BOBRICK # B-270 - CONTURA SERIES NOTE: PURCHASED BY OWNER & INSTALLED BY GC.			MODEL: G2 8111–1.28–GR COLOR: GRAPHITE NOTE: TOILET & FLUSH VALVE PURCHASED & INSTALLED BY GC.		NOTE: PURCHASED BY OWNER & INSTALLED BY GC. E BACKING IN WALL FOR ALL S NECESSARY
(F)	SURFACE MOUNTED DOUBLE ROLL TOILET TISSUE DISPENSER MODEL: TBD FINISH: BLACK NOTE: PURCHASED BY OWNER INSTALLED BY GC	K		DROP IN ADA VESSEL SINK MANUF:KOHLER MODEL: IRON PLAINS VESSEL SINK WITH OVERFLOW COLOR: WHITE	_	
G	HORIZONTAL RECESSED BABY CHANGING STATION KOALA BEAR CARE MODEL: KB110-SSRE FINISH: STAINLESS STEEL NOTE: PURCHASED BY OWNER, INSTALLED BY GC.			SIZE: 22 1/2"L X 14" W X 6" D LOCATION: TOP OF SINK TO BE NO HIGHER THAN 34" NOTE: PURCHASED BY OWNER & INSTALLED BY GC		

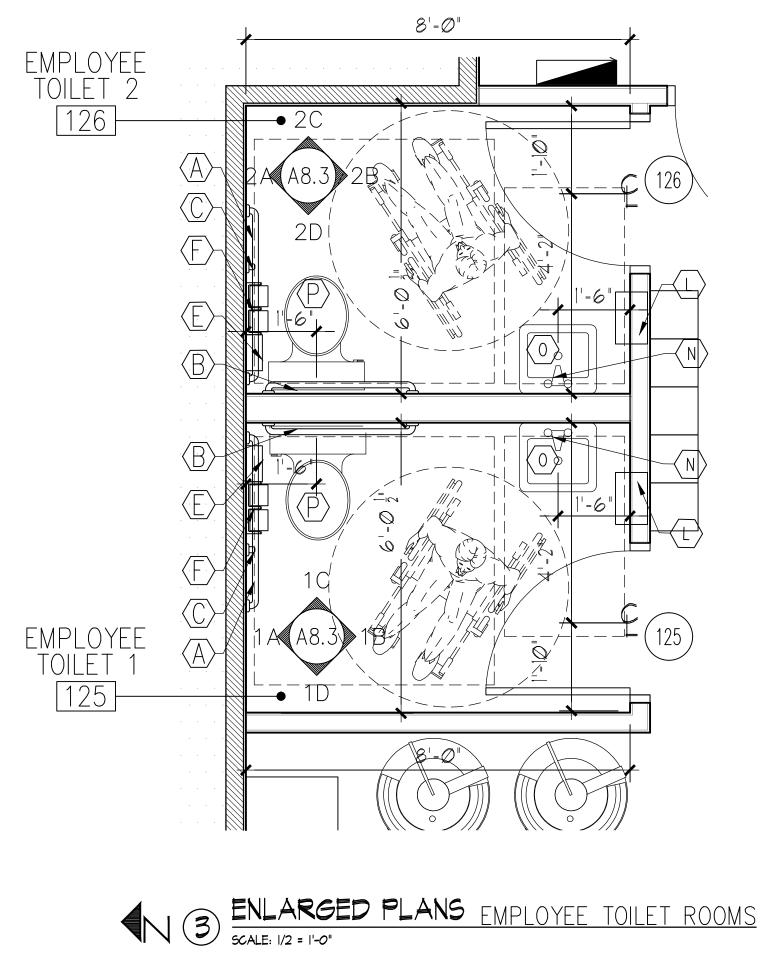


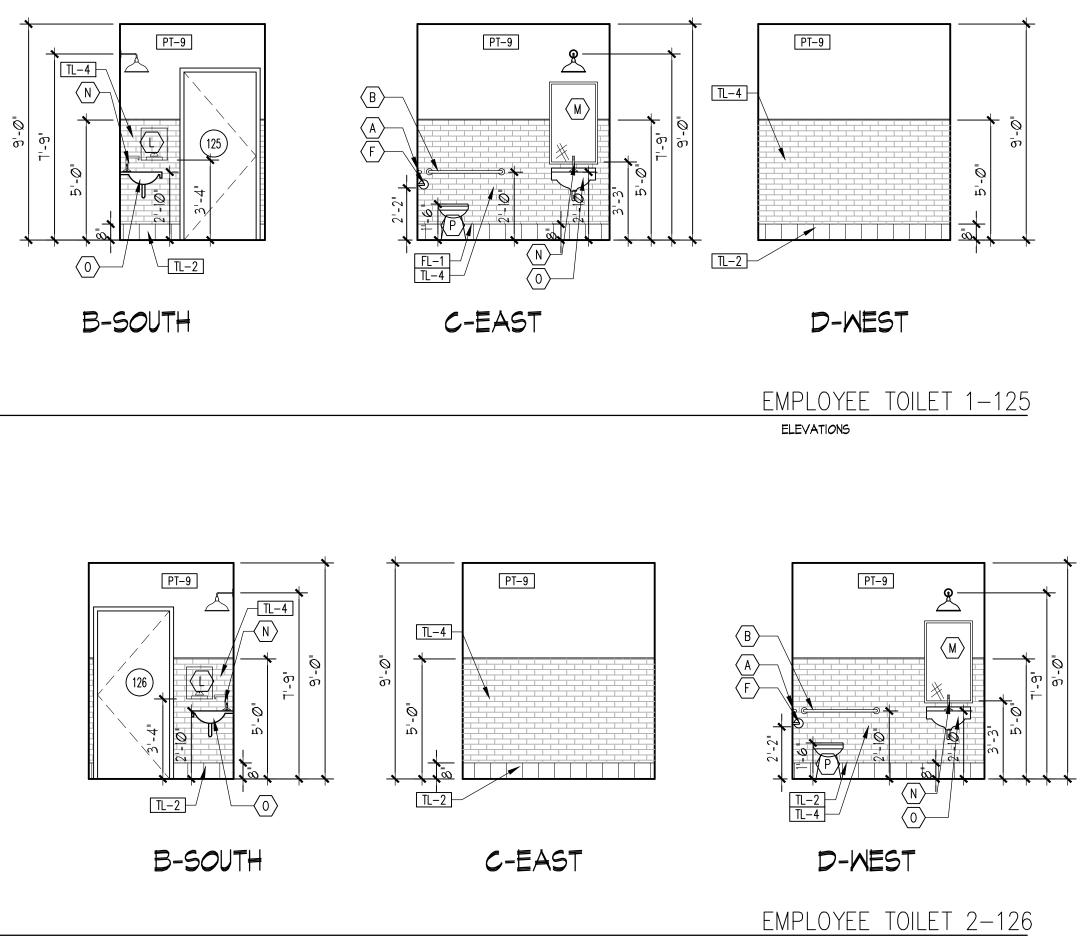
INSTALLER _____ KER



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

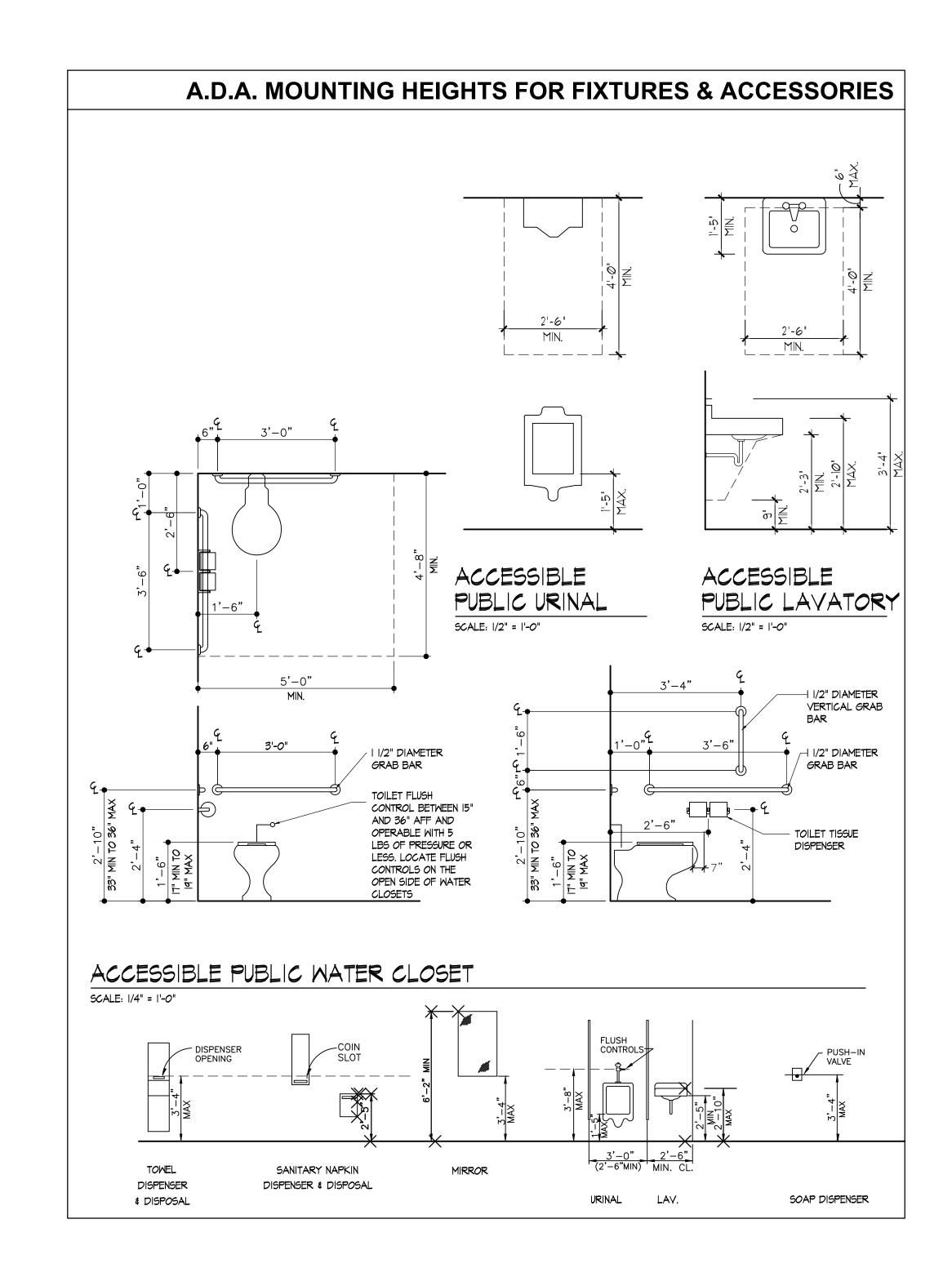


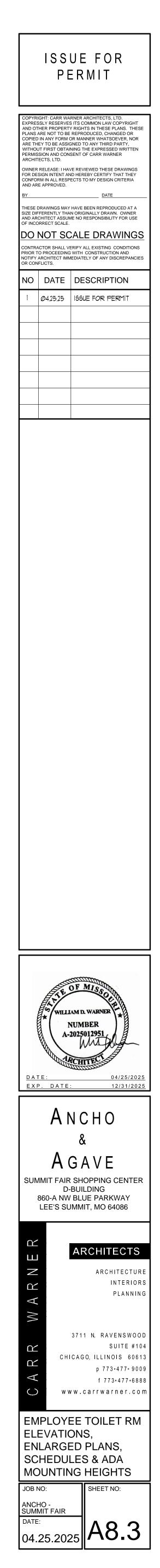


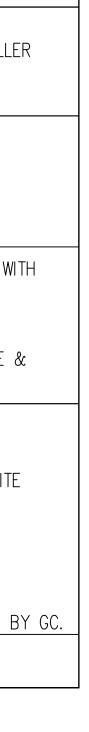


ELEVATIONS

GENERAL NOTES	F	MPI	OYEE TOILET RESTRO	ON	CESSORY SCHEDULE
. MOUNT ALL FIXTURES AND ACCESSORIES AT HEIGHTS CONFORMING TO ALL GOVERNING CODES AND A.D.A. REQUIREMENTS WHETHER OR NOT INDICATED.		حـــــــــــــــــــــــــــــــــــــ	1 1/2" DIAMETER X 3'-6" LONG GRAB BAR MOUNTED 2'-10" A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTING LOCATION) NOTE: PURCHASED & INSTALLED BY GC		CUSTOM MIRROR: PURCHASED BY OWNER & INSTALLED BY OWNER'S INSTALLER
 SEE NOTE SECTION OF ITEM FOR RESPONSIBILITY ALL MIRRORS TO HAVE 1" BEVELED EDGES, PROVIDED BY OWNER INSTALLED BY GC. 	В	~	1 1/2" DIAMETER X 3'-0" LONG GRAB BAR MOUNTED 2'-10" A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTING LOCATION) NOTE: PURCHASED & INSTALLED BY GC.		ADA AUTOMATIC FAUCET MNFR: TBD MODEL: TBD COLOR: POLISHED CHROME NOTE: PURCHASED BY OWNER & INSTALLED BY GC
 ALL PLUMBING FITTINGS ARE TO BE SUPPLIED BY GC. EVEN IF THE FIXTURE IS SUPPLIED BY OWNER. MILLWORKER TO FABRICATE METAL FRAMED SHIP LAP PARTITIONS. 	C		1 1/2" DIAMETER X 1'-6" LONG GRAB BAR MOUNTED 3'-4" A.F.F. (REFER TO TOILET ROOM PLAN FOR MOUNTING LOCATION) - VERTICAL GRAB BAR NOTE: PURCHASED & INSTALLED BY GC.	\bigcirc	EMPLOYEE TOILET ROOM WALL MOUNTED ADA LAVATORY WITH SHROUD MODEL: KOHLER – BRENHAM K–1999–1N –0 COLOR: WHITE
. VERIFY SINK & FAUCET CUTOUT IN GUEST RESTROOMS PRIOR TO CUTTING OPENINGS FOR BOTH SINK AND FAUCETS.	E		SURFACE MOUNTED SANITARY NAPKIN DISPOSAL MOUNT TOP OF UNIT 2'-6" A.F.F. U.N.O. MODEL: BOBRICK # B-270 - CONTURA SERIES NOTE: PURCHASED BY OWNER & INSTALLED BY GC.		NOTE: CONCEALED CARRIER ARM – SINGLE FAUCET HOLE & SHROUD – PURCHASED BY OWNER & INSTALLED BY GC FLOOR MOUNTED TOILET – EMPLOYEE TOILET RM MNFR: KOHLER
PER EQUITABLE RESTROOMS ACT – SINGLE USE EMPLOYEE RESTROOMS ARE TO BE IDENTIFIED AS ALL-GENDER SPECIFIC AND SHALL BE OUTFITTED WITH SIGNAGE ON EXTERIOR SIDE OF WALL, HANDLE SIDE OF DOOR THAT IDENTIFIES AS SUCH. SIGNAGE PROVIDED BY OWNER.	F	e_j,	SURFACE MOUNTED DOUBLE ROLL TOILET TISSUE DISPENSER MODEL: TBD FINISH: BLACK NOTE: PURCHASED BY OWNER INSTALLED BY GC		MODEL: HIGHCLIFF ULTRA K-96057-B COLOR: WHITE SPUD: AT REAR, GC TO PROVIDE MATCHING SEAT IN WHITE AUTO FLUSH VALVE: MNFR: SLOAN MODEL: G2 8111-1.28-GR
			WALL MOUNTED AUTOMATIC RECESSED TOWEL DISPENSER GEORGIA PACIFIC – MODEL: enMOTION 59466A FINISH: STAINLESS STEEL MOUNT AT ADA HEIGHT NOTE: PURCHASED BY OWNER & INSTALLED BY GC.		COLOR: GRAPHITE NOTE: TOILET & FLUSH VALVE PURCHASED & INSTALLED BY GC. DE BACKING IN WALL FOR ALL AS NECESSARY







HARDWARE SCHEDULE

SET	LOCATION	TYPE
AA	EXTERIOR DOOR (SINGLE DOOR)	 PAIR B.B. BUTT HINGES MORTISE DOUBLE CYLINDER DEAD BOLT LOCK FIRST CHOICE 3700 SERIES PANIC BAR PULL BAR CLOSER CLOSER THRESHOLD SET WEATHER STRIPPING AUTOMATIC DOOR BOTTOM
AA	EXTERIOR DOOR (DOUBLE DOOR)	 PAIR B.B. BUTT HINGES MORTISE DOUBLE CYLINDER DEAD BOLT LOCK FIRST CHOICE 3700 SERIES PANIC BAR PULL BAR CLOSER THRESHOLD SET WEATHER STRIPPING AUTOMATIC DOOR BOTTOM
BB	INTERIOR VESTIBULE DOOR (DOUBLE DOOR)	 PAIR B.B. BUTT HINGES PUSH PLATES - DECORATIVE PULLS - DECORATIVE CLOSER DOOR STOPS
CC	EXTERIOR EXIT DOOR (SINGLE DOOR)	 PAIR B.B. BUTT HINGES FIRST CHOICE 3700 SERIES PANIC BAR CLOSER THRESHOLD SET WEATHER STRIPPING AUTOMATIC DOOR BOTTOM
DD	SERVICE ENTRANCE/EXIT	 PAIR B.B. BUTT HINGES SET PANIC HARDWARE W/ MORTISE LOCKSET CLOSER W/ HOLD OPEN CYLINDER KICK PLATE 9"H x DOOR WIDTH PULL BAR VIEW - DOORSCOPE SECURITY, SILVER ALUMINUM THRESHOLD SET WEATHER-STRIPPING
EE	EXTERIOR DOOR SINGLE	 PAIR B.B. BUTT HINGES SET PANIC HARDWARE W/ MORTISE LOCKSET CLOSER W/ HOLD OPEN CYLINDER KICK PLATE 9"H x DOOR WIDTH PULL BAR VIEW - DOORSCOPE SECURITY, SILVER ALUMINUM
FF	PUBLIC TOILET ENTRY <u>NOTE:</u> CUSTOM ADA RESTROOM SIGNAGE PROVIDED BY TENANT & INSTALLED BY GC	 1/2 PAIR B.B. BUTT HINGES CLOSER PULL PUSH PLATE KICK PLATE 34" X 8" SET DOOR SILENCERS MEN'S OR WOMEN'S SIGN (FURN. BY TENANT) HDCP.
GG	EMPLOYEE TOILET	 1/2 PAIR B.B. BUTT HINGES TOILET ROOM LATCH SET W/ OCCUPIED/UNOCCUPIED CLOSER DOOR STOP THRESHOLD NON-GENDER SPECIFIC SIGNAGE (FURN. BY TENANT) HDCP.
HH	OFFICE	1 1/2 PAIR B.B. BUTT HINGES 1 OFFICE LOCKSET 1 CLOSER 1 DOOR STOP
JJ	STORAGE/ CORRIDOR	1 1/2 PAIR B.B. BUTT HINGES 1 KEY PAD LOCK ENTRY SET 1 DOOR STOP 1 CLOSER W/ HOLD OPEN
KK	NOT USED	
LL	MECHANICAL	 1 1/2 PAIR B.B. BUTT HINGES STORE ROOM LOCKSET CLOSER DOOR STOP SET WEATHER/SOUND SEALS THRESHOLD
MM	PASSAGE	 1/2 PAIR B.B. BUTT HINGES PUSH PULL BAR CLOSER W/ HOLD OPEN KICK PLATE 34" X 9" LOW (OR CUSTOM) SET DOOR SILENCERS
NN	EXTERIOR PATIO EXITS	 SET EXTERIOR PANIC HARDWARE W/ MORTISE LOCKSET CLOSER /SELF CLOSING HINGES SET GATE HINGES

HARDWARE SCHEDULE NOTES:

A CONTRASTING BACKGROUND.

DEGREES IS 5 SECONDS MINIMUM.

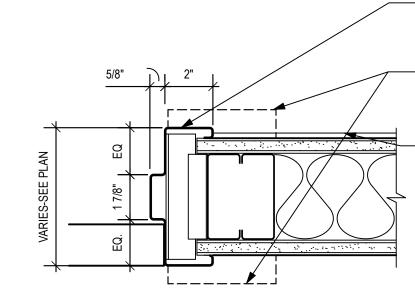
FRONT OF HOUSE - RESTROOMS, STORAGE DOORS, STOREFRONT - ALL HARDWARE TO BE FLAT BLACK US19 / 622 BACK OF HOUSE - ALL HARDWARE BACK OF HOUSE - TO BE SATIN CHROME US26D BACK OF HOUSE LEVER DESIGN - SCHLAGE - AL SERIES/LEVER: JUPITER (JUP) EXTERIOR ENTRY DOOR, VESTIBULE DOOR PULLS AND RESTROOM DOORS- DECORATIVE BY TENANT INSTALLED BY GC (REPLACE EXISTING) HARDWARE SETS ARE DESCRIBED FOR SINGLE DOORS. WHERE A PAIR OF DOORS IS LISTED IN THE DOOR SCHEDULE, DOUBLE THE QUANTITY OF EACH ITEM LISTED IN THE HARDWARE SCHEDULE, UNLESS NOTED OTHERWISE.

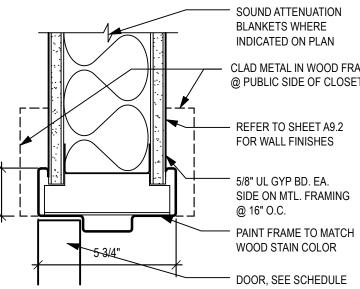
WHEN A DOOR IS OVER 7'-6" TALL, PROVIDE 2 PAIR HINGES PER DOOR. HARDWARE SUPPLIER VERIFY W/ FLOOR PLANS ON MOUNTING LOCATION FOR DOOR STOP, IE. FLOOR OR WALL. GC MUST PROVIDE SHOP DRAWING FOR REVIEW PRIOR TO ORDERING GC TO VERIFY EXISTING PANIC HARDWARE & CLOSERS ON ALL EXTERIOR ALUM. GLASS DOORS THAT ARE TO REMAIN FUNCTION AND IN GOOD WORK CONDITION. IF NOT, REPLACE W/ NEW 10. MAXIMUM DOOR OPENING FORCES FOR EGRESS DOORS SHALL BE 8.5 LBS FOR EXTERIOR DOORS, 5 LBS FOR INTERIOR DOORS PER IAC 404.2.9 11. PER 2018 IBC 1010.1.9.4 LOCKS AND LATCHES: LOCKS AND LATCHES SHALL BE PERMITTED TO PREVENT OPERATION OF DOORS WHERE ANY OF THE FOLLOWING EXIST:

2. IN BUILDINGS IN OCCUPANCY GROUP A HAVING AN OCCUPANT LOAD OF 300 OR LESS, GROUPS B,F,M AND S, AND IN PLACES OF RELIGIOUS WORSHIP, THE MAIN DOOR OR DOORS ARE PERMITTED TO BE EQUIPPED WITH KEY-OPERATED LOCKING DEVICES FROM THE EGRESS SIDE PROVIDED: 2.1. THE LOCKING DEVICE IS READILY DISTINGUISHABLE AS LOCKED

2.2. A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. THE SIGN SHALL BE LETTERS 1 INCH HIGH ON 2.3. THE USE OF THE KEY-OPERATED LOCKING DEICE IS REVOCABLE BY THE BUILDING OFFICIAL FOR DUE CAUSE.
PER IAC 404.2.8.1 DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12

13. PER IAC 404.2.10 DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESES SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.





DOOR, SEE SCHEDULE 4 JAMB/HEAD DTL MTL FRAME

2x4 WD. NAILER

-1/4" SHIMSPACE

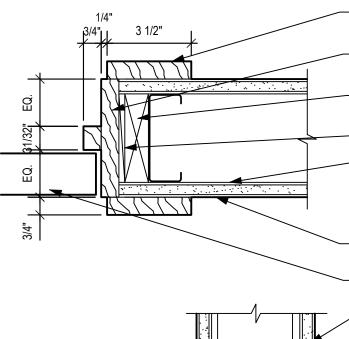
GYP. BD. EACH

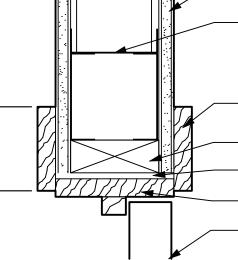
WALL FINISH

DOOR-SEE SCHED.

DOOR-SEE SCHED.

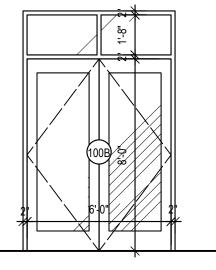
PLAN



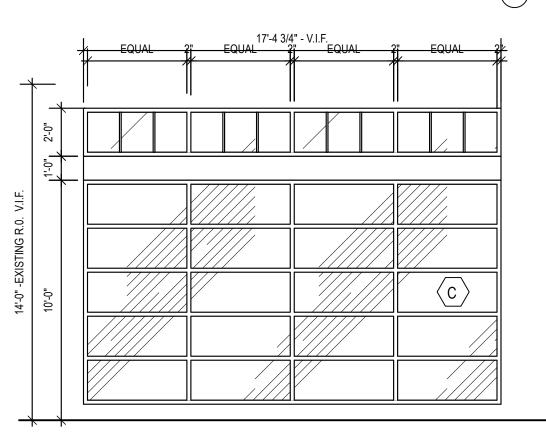


REFER TO SHEET A9.1 FOR WALL FINISH GYP. BD. EACH SIDE OF MTL. FRAMING-PROVIDE INSULATION WHERE INDICATED ON PLAN - 1x4 HARDWOOD FRAME (ON PUBLIC SIDE ONLY @ CLOSETS) - 2x4 WD. NAILER WOOD SHIM AS REQUIRED 1x HARDWOOD CASING

3 JAMB/HEAD DTL WOOD FRAME



F EAST - VESTIBUL





C SOUTH

H.M. DOOR & FRAME PROVIDE (3) ANCHORS PER JAMB PAINT FRAME TO MATCH WOOD STAIN COLOR - CLAD METAL IN WOOD FRAME @ PUBLIC SIDE OF CLOSETS

REFER TO SHEET A9.2 FOR WALL FINISHES 5/8" UL GYP. BD. EA. SIDE OF MTL. FRAMING - PROVIDE

SOUND ATTENUATION BLANKET WHERE INDICATED ON PLAN

SOUND ATTENUATION INDICATED ON PLAN

CLAD METAL IN WOOD FRAME @ PUBLIC SIDE OF CLOSETS

SIDE ON MTL. FRAMING

WOOD STAIN COLOR

1x4 HARDWOOD FRAME (ON PUBLIC SIDE ONLY @ CLOSETS)

1x HARDWOOD CASING

SIDE OF MTL. FRAMING-PROVIDE INSULATION WHERE INDICATED ON

REFER TO SHEET A9.1 FOR

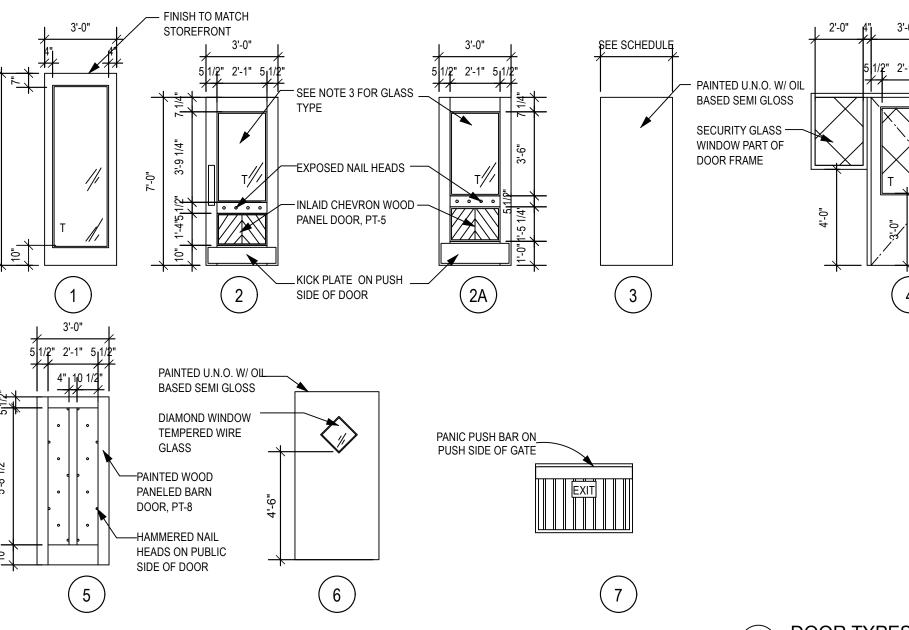
						DOO	R SC	HED	ULE					
DOOR NUMBER	LOCATION	QUANITY	SIZE	TYPE	THICKNESS	CONSTRUCTION	FACING - FINISH	FRAME	THRESHOLD	HEAD DETAIL	JAMB DETAIL	U.L. LABEL/ HOURS	HARDWARE	REMARKS
100A	VESTIBULE	2	3'-0" X 8'-0"	1		AL/GL	-	-	-				AA	
100B	HOST	2	3'-0" X 8'-0"	1		AL/GL	PRE	AL	NO	-	-		BB	
102	MAIN DINING	1	3'-0" X 8'-0"	1		AL/GL	-	-	-				AA	
106	BAR DINING	1	3'-0" X 8'-0"	1		AL/GL	-	-	-				AA	
109	MOP	1	3'-0" X 7'-0"	5	1 3/4"	WD	WD/PT-5	HM	NO	4	4	-	JJ	DOOR HAS RUSTIC NAIL HEADS
110	WOMEN'S TOILET ROOM	1	3'-0" X 7'-0"	2	1 3/4"	WD/GL	WD/PT-5	WD	NO	3	3	-	FF	TEMPERED GLASS - SEE NOTE 3 DOOR HAS RUSTIC NAIL HEADS
111	MEN'S TOILET ROOM	1	3'-0" X 7'-0"	2	1 3/4"	WD/GL	WD/PT-5	WD	NO	3	3	-	FF	TEMPERED GLASS - SEE NOTE 3 DOOR HAS RUSTIC NAIL HEADS
123	OFFICE	1	3'-0" X 7'-0"	4	1 3/4"	НМ	PT-8	HM	NO	4	4	-	НН	TEMPERED WIRE GLASS - CLEAF
125	EMPLOYEE TOILET	1	3'-0" X 7'-0"	3	1 3/4"	НМ	PT-8	HM	YES	4	4	-	GG	
126	EMPLOYEE TOILET	1	3'-0" X 7'-0"	3	1 3/4"	НМ	PT-8	HM	YES	4	4	-	GG	
127	ELECTRICAL	1	EXISTING	-	-	-	PT-8	-	-	-	-	-	LL	
128	STORAGE 2	1	3'-6" X 7'-0"	6	1 3/4"	НМ	EXPT	HM	YES			-	DD	INSULATED
EX130A	COVERED PATIO	1	3'0"X 3'6"	7		AL	EXPT-2	-	-	-	-	-	NN	
EX130B	COVERED PATIO	1	3'0"X 3'6"	7		AI	FXPT-2	_	-	_		_	NN	

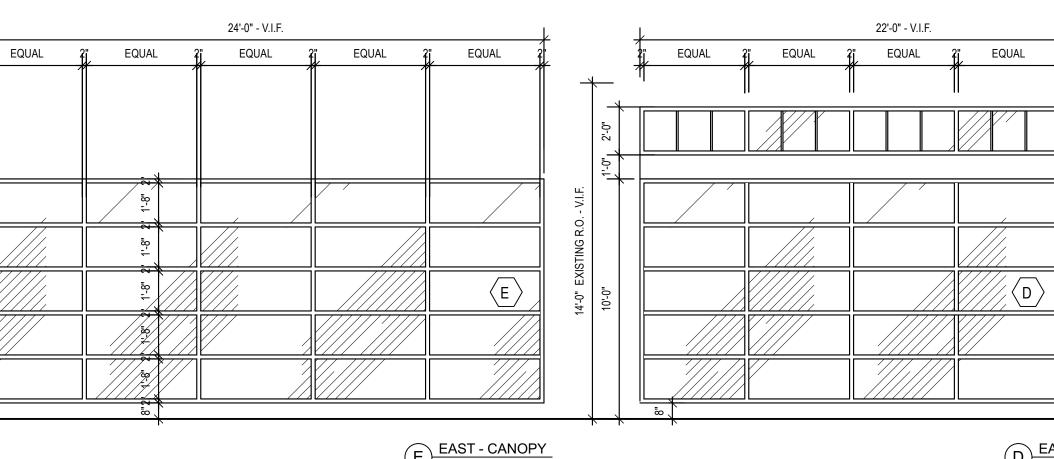
** SEE STOREFRONT DRAWINGS BELOW

DOOR NOTES: 1. AL= ALUMINUM, GL= GLAZING, HM= HOLLOW METAL, PT= PAINT, WD= WOOD, PRE= PREFINISHED, ST= STAIN, T= TEMPERED, PL= PLASTIC LAMINATE, STL= STEEL 2. ALL DOOR THRESHOLDS TO MEET ADA STANDARDS.

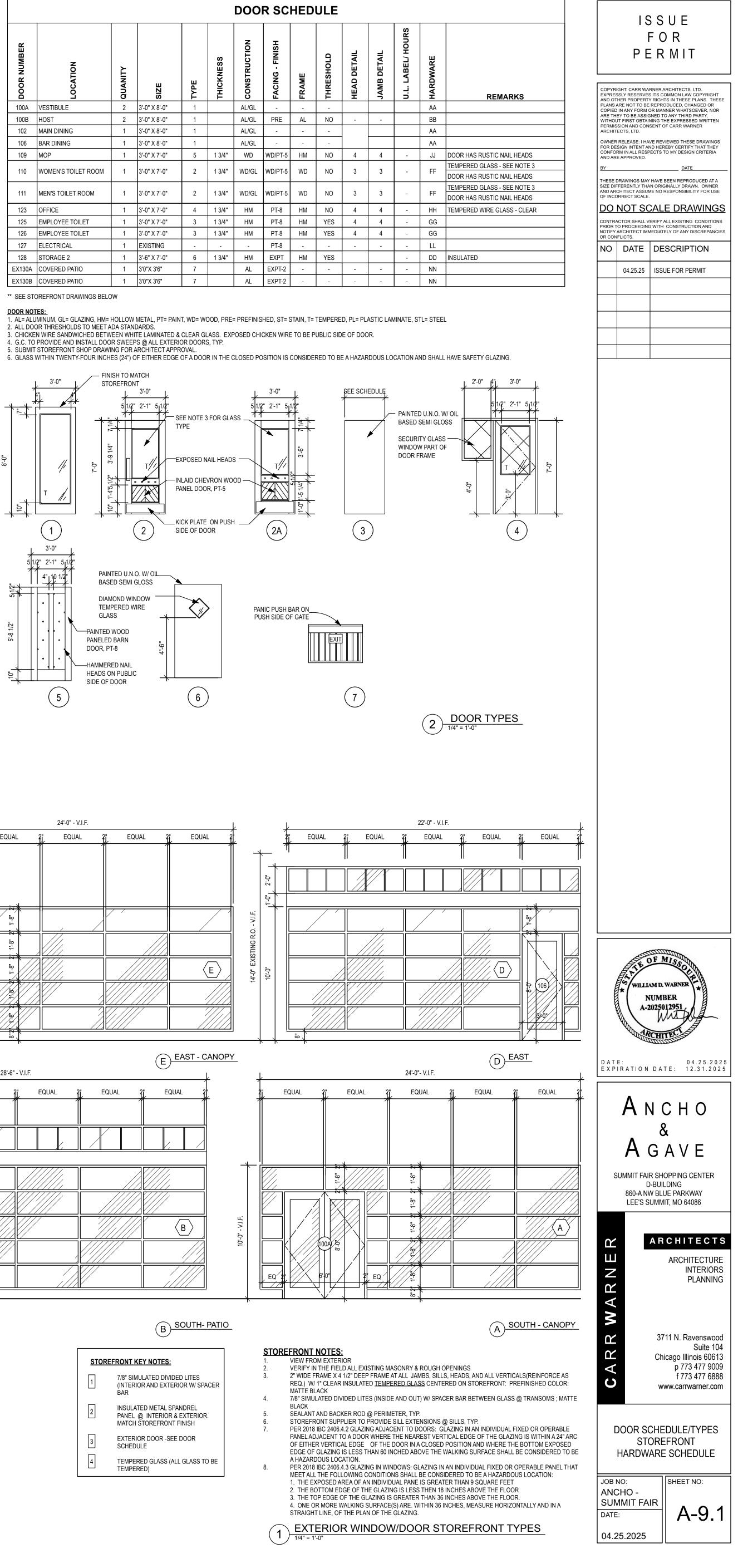
3. CHICKEN WIRE SANDWICHED BETWEEN WHITE LAMINATED & CLEAR GLASS. EXPOSED CHICKEN WIRE TO BE PUBLIC SIDE OF DOOR. 4. G.C. TO PROVIDE AND INSTALL DOOR SWEEPS @ ALL EXTERIOR DOORS, TYP.

5. SUBMIT STOREFRONT SHOP DRAWING FOR ARCHITECT APPROVAL. 6. GLASS WITHIN TWENTY-FOUR INCHES (24") OF EITHER EDGE OF A DOOR IN THE CLOSED POSITION IS CONSIDERED TO BE A HAZARDOUS LOCATION AND SHALL HAVE SAFETY GLAZING.





JLE_						E EAST - C	ANOPY	
			28'-6"	- V.I.F.			2	_
EQUAL		EQUAL 2	EQUAL 2	EQUAL	EQUAL 2	EQUAL 2	2	7
1-8" 2"								
						B	10'-0" - V.I.F.	
8'-0"	102						10	
3		4						
\ \		11						



B SOUTH- PATIO

- 7/8" SIMULATED DIVIDED LITES (INTERIOR AND EXTERIOR W/ SPACER INSULATED METAL SPANDREL PANEL @ INTERIOR & EXTERIOR. MATCH STOREFRONT FINISH EXTERIOR DOOR -SEE DOOR

STOREFRONT KEY NOTES:

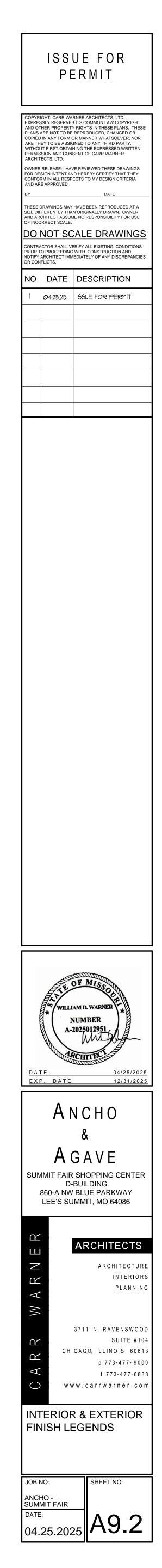
SCHEDULE TEMPERED GLASS (ALL GLASS TO BE

TEMPERED)

					INTERIOR	FINISH LEGEND	
TAG	MATERIAL	MANUFACTURER	MODEL/SIZE	COLOR	FINISH	CONTACT	LOCATION AND NOTES
TILE:		1	T	1	T		
TL-1	PORCELAIN TILE	FIORANESE DIST: LOUISVILLE TILE	CEMENTINE: BLACK & WHITE SIZE: 8" X 8"	B&W- #2	GROUT: MAPEI #10 BLACK		FIELD FLOOR TILE FOR RESTROOMS, SEE FLOOR FINISH PLAN FOR LOCATION. TILE FOR EXTERIOR SEE EXTERIOR ELEVATIONS FOR LOCATIONS.
TL-2	PORCELAIN TILE	THE TILE SHOP	CHALK GREY #680604 SIZE: 8" x 8" BRICK X BRICK-	CHALK GREY	GROUT: MAPEI #10 BLACK	TILE SHOP TEL: 847.324.4590 - MICHELLE	BASE TILE FOR MAIN DINING, HOST, AND BAR DINING, MOP CLOSET AND CORRIDOR
TL-3	PORCELAIN TILE	THE TILE SHOP	ALISON VICTORIA COLLECTION SIZE: 2" X 10"	POWDER	GROUT: MAPEI #47 CHARCOAL	TILE SHOP TEL: 847.324.4590 - MICHELLE	TILE AT SERVICE STATION SOUTH EXPO AREA ABOVE FRP AT LOW WALL. SEE ELEVATIONS.
TL-4	PORCELAIN TILE	TILE SHOP	NAUTILUS SIZE: 2" X 10"	NAVY	TBD	TILE SHOP TEL: 847.324.4590 - MICHELLE	TILE AT EMPLOYEE TOILET WALLS. USE SCHL-2 BAR STOCK AT TOP OF TILE IN EMPLOYEE TOILET ROOM
TL-5	PORCELAIN TILE	VIRGINIA TILE	WOW SERIES – WOWCRWH312GZ SIZE: 3" X 12"	CRAFTED WHITE	GROUT: MAPEI #10 BLACK	LAURAL HAMPTON: 312.439.4210 EMAIL: LAUREL.HAMPTON@VIRGINIATILE.COM	FIELD TILE AT GUEST RESTROOM WALLS
TL-6	PORCELAIN TILE	VIRGINIA TILE	CITY BRICK STREET LIGHTS – CRACKLE GLAZE	STREET LIGHTS	GROUT: TEC INCOLOR COLOR: TBD	LAURAL HAMPTON: 312.439.4210 EMAIL: LAUREL.HAMPTON@VIRGINIATILE.COM	TILE FOR BEVERAGE SERVICE, CHIP & WRAP STATIONS. USE SCHL-2 BAR STOCK AT TOP OF TILE IN THESE AREAS. FULL TILE REQUIRED AT TOP OF WALL AND WORK WAY DOWN.
			SIZE: 3" X 9"		MUST USE TEC INCOLOR		TILE MUST BE PRESEALED WITH A PENETRATING SEALER 2-3 TIMES BEFORE GROUTING AND AGAIN AFTER GROUTING. GC'S SUB TO PROVIDE SEALER FOR TILE BASED ON TILE MNFR RECOMMENDATIONS.
TL-7	PORCELAIN TILE	DAL TILE	KEYSTONE MOSAIC SIZE: 2" X 2"	BLACK D311 – UNGLAZED	GROUT: MAPEI #10 BLACK	MATT HAMILTON: 618.530.4654 EMAIL:matt.hamilton@daltile.com	BASE & BORDER TILE FOR GUEST RESTROOMS. USE SCHL-1 COVE BASE WITH THIS TILE IN GUEST RESTROOMS.
TL-8	QUARRY TILE	LOUISVILLE TILE	SIZE: 6" X 6"	PURITAN GREY	GROUT: MAPEI #10 BLACK	STACY DRACOPOULOS : 224.366.2868 EMAIL: ADRACOPOULOS@Iouisvilletile.com	BASE TILE AT ISLAND AT BAR. TILE ONLY SURROUNDS THE ISLAND IN CENTER, NO OTHER LOCATION AT BAR.
TL-9	PORCELAIN TILE	VIRGINIA TILE	EUPHORIA COLLECTION SIZE: 2" x 8"	PARROT CAY & AMAZING GRACE	GROUT: MAPEI TBD	LAURAL HAMPTON: 312.439.4210 EMAIL: LAUREL.HAMPTON@VIRGINIATILE.COM	WALL TILE FOR NORTH WALL AT KITCHEN COOK LINE 3 AROUND EXPO – SEE ELEVATIONS NOTE: THIS IS TWO COLORS, NEED TO MIX THE BOXES UP IN THE FIELD TO BLEND THE TWO COLORS FULLY. TILE CAN
TI 40		THE TILE SHOP	BRICK X BRICK- ALISON VICTORIA	PEWTER	GROUT: MAPEI	TILE SHOP	NOT BE CUT GOING VERTICALLY ONLY FULL TILES. CAN CUT TILE ON SIDES OF EXPO JUST NOT AT TOP AND BOTTOM.
TL-10	PORCELAIN TILE		COLLECTION SIZE: 2" X 10"		#27 SILVER	TEL: 847.324.4590 – MICHELLE	TILE AT CARRY OUT WALLS. USE SCHL-2 AT TOP OF TILE IN THIS AREA.
TL-11	PORCELAIN TILE	TILE SHOP	BOLSHOI SIZE: 8" X 8"	NAVY	GROUT: MAPEI CHARCOAL # 47		FIELD FLOOR TILE FOR RESTROOMS, SEE FLOOR FINISH PLAN FOR LOCATION. TILE FOR EXTERIOR SEE EXTERIOR ELEVATIONS FOR LOCATIONS.USE SCHL-4 FOR COVE BASE IN THE EMPLOYEE RESTROOMS
FLOO	R SPECIALTY:	·	·	•		·	
FL-1	POLYVINYL RECYCLED MATERIALS	ECO-GRIP	ECO-GRIP	PEWTER	WELD SEEMS	WEDNSDAY WATKINS EMAL: WEDNESDAY@ECO-GRIPINSTALLATION.COM TEL: 980.595.3316	BASE AND FLOORING FOR BACK OF HOUSE AREAS INCLUDING BAR SERVICE SIDE. SEE FLOOR FINISH PLAN FOR LOCATION. PURCHASED BY OWNER AND INSTALLED BY ECO-GRIP, GC TO COORDINATE INSTALL. CONCRETE MUST BE CURED FOR 30 DAYS PRIOR TO INSTALL
SCHL-1	SCHLUTER COVE	SCHLUTER.COM	SCHLUTER COVE - SCHL-DILEX -	BLACK			NOTE: THIS IS FOR GUEST RESTROOMS, TRANSITION FROM FLOOR 2X2 TO WALL 2X2 BASE, THIS SPEC DOES NOT INCLUE INVERTED CORNERS OR OUTER CORNERS, SUBCONTRACTOR MUST PROVIDE AND DETERMINE QUANTITIES OF CORNERS, SAME FINISH AS LONG RUNS,
SCHL-2	SCHLUTER JOLLY	SCHLUTER.COM	SCHLUTER - JOLLY	BRUSHED STAINLESS			NOTE: THIS IS FOR TOP OF WALL TILE AT EMPLOYEE TOILETS, CARRY OUT, BEVERAGE STATION, CHIP STATION, WRAP AND TO GO STATIONS.
SCHL-3	METAL TRANSITION	KUBERIT.COM	KS-K-550-A1-U	BRONZE	55MM — WITH 1" VISIBLE FACE	1.888.284.7567	NOTE: THIS IS FOR TRANSITION BETWEEN WALK OFF MAT AND CONCRETE AT ENTRY VESTIBULE. NOTE. CUSTOM PRODUCT
SCHL-4	SCHLUTER COVE	SCHLUTER.COM	SCHLUTER COVE – SCHL-DILEX – AHK	BRUSHED STAINLESS			NOTE: THIS IS ONLY USED IN EMPLOYEE RESTROOM AS A COVE BASE. NO OTHER LOCATIONS USE THIS COLOR.
CONC	RETE						
CONC-1	STUCCO- Concrete trowel finish	GENERAL CONTRACTOR		SEALED		-	CONCRETE TROWELED ON FINISH, LOCATIONS AT BEVERAGE, UNDERSIDE OF BEVERAGE SOFFIT AND WEST WALLS. MUST PROVIDE SAMPLE BOARD TO ARCHITECT/DESIGNER FOR APPROVAL. SEE ELVATIONS FOR LOCATIONS
CONC-2	CONCRETE FLOOR WITH EXPOSED AGGRIGATE	GENERAL CONTRACTOR	SEALER – SHERWIN WILLIAMS GENERAL POLYMER – EPOXY PRIMER SEALER – #3477 W/ ADD OF ALUMINUM OXIDE FOR MAT FINISH	MAT FINISH	EXPOSED AGGREGATE FINISH		SEALED EXPOSED AGGREGATE CONCRETE FLOOR FRONT OF HOUSE. SEE FLOOR FINISH PLAN A12.1 FOR LOCATION. MUST PROVIDE EXPOSED AGGREGATE SAMPLE FOR FINISH.
CONC-3	CONCRETE BAR TOP	GENERAL CONTRACTOR		MAT FINISH	EXPOSED AGGREGATE FINISH SEALED		CONCRETE BAR TOP WITH EXPOSED AGGREGATE – PROVIDE SAMPLE TO ARCHITECT/DESIGNER FOR APPROVAL
CONC-4	CONCRETE FLOOR	GENERAL CONTRACTOR					NORMAL 5" REINFORCED CONCRETE FOR BACK OF HOUSE. NOTE CONCRETE IN THIS AREA DOES
	BACK OF HOUSE						NOT HAVE EXPOSED AGGREGATE AND FL-1 GOES ON TOP OF THIS FLOOR.
WOOF							
WOOL	PAINTED 1 x 6 SOLID	MILLWORKER	PAINTED		PAINTED		PAINTED WOOD SHIP LAP LOW WALLS & FEATURE WALL AT EXPO. SEE ELEVATIONS AND
WD-1	SHIP LAP PAINTED SOLID WOOD CAP &		1 X 6 SHIP LAP	PT-4	FAINTED		SCHEDULE FOR LOCATIONS.
WD-2	TRIMS	MILLWORKER	1 X SOLID VARIES	VARIES BY LOCATION	PAINTED	_	PAINTED WOOD CAP AT LOW WALL DIVIDER AND WOOD CAP IN RESTROOM. NOTE EACH LOCATION HAS DIFFERENT PAINT COLOR.
WD-3 WD-4	STAINED HARDWOOD VENEER PLYWOOD PAINTED WOOD DOOR	MILLWORKER		TBD VARIES BY	STAINED TBD	-	STAINED SOLID WAINSCOT PANELING AT LOUNGE LOW WALL DIVIDER
WD-4	CASING STAINED SOLID TRIMS.	MILLWORKER	VARIES WHITE OAK SOLIDS	LOCATION VARIES BY	PAINTED STAINED TBD	-	PAINTED WOOD CASING AT CORRIDOR INTO RESTROOM AND RESTROOM DOORS. STAINED SOLID HARDWOOD FOR TRIMS, BASE AND TOP @ LOUNGE LOW WALL DIVIDER
WD-6	CAPS & BASE RECLAIMED OAK	MILLWORKER	2 X SOLID	LOCATION TBD	STAINED TBD	_	RECLAIMED OAK HARDWOOD SOLID SHELF AT EXPO ABOVE AND BELOW WINDOW. NOTE: THERE
	HARDWOOD SHELF PAINTED WOOD CROWN	MILLWORKER	3" CROWN	PT-6	PAINTED		IS A STAINLESS STEEL WRAP AT EXPO WINDOW. SEE ELEVATIONS. PAINTED CROWN IN RESTROOMS. DESIGNER TO PROVIDE COLOR
CARPI	3 T :						
CPT	WALK OFF MAT	AMERICAN FLOOR MATS	COCOA MAT 4' X 6'- 1/2" THICK	CHARCOAL	_	WWW.AMERICANFLOORMATS.COM	RECESSED WALK OFF MAT AT ENTRY VESTIBULE. NOTE: THAT THERE IS A METAL TRIM PIECE THAT PROTECTS EDGES OF CARPET AND CONCRETE, INSTALL PRIOR TO CARPET. SEE SCHL-3
STON				1	1		
STN-1	SOLID SURFACE	TERRAZZO MARBLE & SUPPLY	DIRESCO QUARTZ #S/SU100	SUPREME WHITE	POLISHED	EMILY VAN TASSEL 224.223.2492 EVANTASSEL@TMSUPPLY.COM	COUNTER TOP AT RESTROOMS
STN-2	HONED GRANITE	TERRAZZO MARBLE & SUPPLY	GRANITE	ABSOLUTE BLACK	LEATHER SATIN	EMILY VAN TASSEL 224.223.2492 EVANTASSEL@TMSUPPLY.COM	ISLAND COUNTER TOP AT BACK BAR ISLAND & AT HOST STAND WORK TOP
STN-3	SOLID SURFACE	TERRAZZO MARBLE & SUPPLY	DIRESCO QUARTZ	BELGIAN FOG	VELVET	EMILY VAN TASSEL 224.223.2492 EVANTASSEL@TMSUPPLY.COM	BACK COUNTER AT CARRY OUT
META	LS:						
MTL-1	steel pipe	MILLWORKER	SCHEDULE 40 PIPE	NATURAL STEEL	HAMMERED FINISH		STEEL FOOT RAIL WITH PIPE FITTINGS FOR BRACKETS AND SUPPORTS
MTL-2	STEEL STRAPING	MILLWORKER	STEEL STRAPPING	NATURAL STEEL	HAMMERED FINISH		STEEL STRAPPING AT WOOD SLATTED WALL ON WEST WALL OF BAR / BAR DINING
MTL-3	CORTEN STEEL	MILLWORKER	CORTEN STEEL PANEL				CORTEN STEEL PANELS AT BAR DIE WALL. SEE ELEVATIONS
	METAL MESH	MCNICHOLS	TECHNA – 3150 ITEM: 3231500048	BLACK	BLACK		METAL MESH AT BAR HANGING STRUCTURE – PAINTED BLACK
MTL-4							

EXTERIOR FINISH LEGEND										
TAG	MATERIAL	MANUFACTURER	MODEL/SIZE	COLOR	FINISH	CONTACT	NOTES			
CONCRI	ETE:									
EXCONC-1	CONCRETE FLOOR	GENERAL CONTRACTOR	SEALER – SHERWIN WILLIAMS GENERAL POLYMER – EPOXY PRIMER SEALER – #3477 W/ ADD OF ALUMINUM OXIDE FOR MAT FINISH	SEALED/ EXTERIOR MAT	MALL STANDARD		CONCRETE SIDEWALK AT COVERED PATIO. MATCH MALL STANDARD, SEE CIVIL DRAWINGS.			
WOOD:			1		I					
EXWD-1	CEMENT SIDING	JAMES HARDIE	ARTISAN V-GROOVE PROFILE	SMOOTH	PAINTED		PAINTED JAMES HARDIE CEMENT BOARD ABOVE CANOPY. SEE EXTERIOR ELEVATIONS A4.1 FOR EXACT LOCATIONS. PAINT COLOR SAMPLE MUST BE APPROVED BY ARCHITECT/DESIGNER.			
EXWD-2	TONGUE & GROOVE CEDAR SHEATHING – STAINED	GENERAL CONTRACTOR	STAINED TONGUE AND GROOVE	SMOOTH	MUST BE TREATED SEE BELOW FOR ST	WITH FIRE RETARDENT AIN COLOR	STAINED CEDAR TONGUE & GROOVE CEILING AT COVERED PATIO A6.1 FOR DETAILS. FINISH AND STAIN SAMPLE MUST BE APPROVED PRIOR TO INSTALLATION.			
STONE				I						
EXSTN-1	CAST STONE TO MATCH EXISTING	GENERAL CONTRACTOR					STONE SILL SEE EXTERIOR ELEVATIONS ON A4.1 AND A6.1 FOR SIZES AND LOCATION.			
METALS		·	·			·	·			
EXMTL-1	STANDING SEAM METAL ROOF	PAC CLAD OR SIMILAR		GRANITE			STANDING SEAM METAL ROOF AT COVERED PATIO. SEE EXTERIOR ELEVATIONS ON A4.1 AND SECTIONS ON A6.1			
EXMTL-2	BLACK METAL	BY GENERAL CONTRACTOR		EXPT-2			BLACK METALS, COPINGS, DOWN SPOUTS, STOREFRONT & MISC SEE EXTERIOR ELEVATIONS.			
PAINT		- ·								
EXPT-1	STAIN FOR CEDAR -NATURAL	PPG - PROLUX SRD RE WOOD FINISH	PPG - PROLUX SRD RE WOOD FINISH	072– BUTTERNUT			STAIN FOR CEDAR PLANK CEILING AT COVERED PATIO/ COLOR: BUTTERNUT			
EXPT-2	PAINT METALS – BLACK	SHERWIN WILLIAMS	PRO-INDUSTRIAL DTM	SW 6258 TRICORN BLACK	SEMI GLOSS		PAINT FOR MISC METALS, AWNINGS ETC. – COLOR: BLACK			
EXPT-3	PAINT JAMES HARDIE	BENJAMIN MOORE	WOODSCAPES	CW – 685 AMBLER SLATE			PAINT FOR JAMES HARDIE BOARD			
	PAINT JAMES HARDIE			WHITE			SOLDIER TRIM ABOVE ARTISAN V-GROOVE			

				NTERIOF	_		
TAG	MATERIAL	MANUFACTURER	MODEL/SIZE	COLOR	FINISH	CONTACT	LOCATION AND NOTES
PAINT	:		1		1		
'T−1	PAINT	BENJAMIN MOORE	-	# OC-32 TAPESTRY BEIGE	EGGSHELL	BENJAMIN MOORE RETAILER	BASE PAINT FOR FAUX FINISH-1 WALLS FOR WALLS IN MAIN DINING, BAR DINING, LOUNGE, LOUNGE EAST, CARRY OUT. SEE ELEVATIONS FOR LOCATIONS.
PT-2	PAINT	BENJAMIN MOORE	-	# CSP -115 BARNWOOD	FLAT	BENJAMIN MOORE RETAILER	BASE PAINT FOR FAUX FINISH-2 WALLS FOR WALLS IN BAR DINING, LOUNGE EAST & CORRIDOR. SEE ELEVATIONS FOR LOCATIONS.
T-3	PAINT	SHERWIN WILLIAMS	-	SW 7670 GREY SHINGLE	PEARL OR EGGSHELL	BENJAMIN MOORE RETAILER	PAINT FOR WALLS ABOVE 12'-8" SEE ELEVATIONS FOR LOCATIONS.
T-4	PAINT	BENJAMIN MOORE	ADVANCE ENAMEL	# CSP -115 BARNWOOD	PEARL OR EGGSHELL	BENJAMIN MOORE RETAILER	PAINT FOR WOOD WALLS, CAP AND TRIM FRONT OF HOUSE SHIP LAP ALL LOCATIONS USE THIS SPEC FOR THE BASE COAT AS IT IS MORE DURABLE. ALL SHIP LAP MUST BE PRIMED GREY TO MATCH IN MILLWORK SHOP PRIOR TO DELIVERY ON SITE.
T-5	PAINT	SHERWIN WILLIAMS	-	SW7005 SEMI GLOSS PURE WHITE		SHERWIN WILLIAMS	PAINT FOR TOILET ROOM PARTITIONS AND PARTITION DOORS, WOOD DOORS & FRAMES
T-6	PAINT	BENJAMIN MOORE	-	0C-117	FLAT	BENJAMIN MOORE RETAILER	CEILING IN RESTROOMS, EMPLOYEE TOILET AND OFFICE CEILINGS
T-7	K–13 – THERMAL INSULATION	INTERNATIONAL CELLULOSE	K13 – COLOR GREY	SIMPLY WHITE	GREY	INTERNATIONAL CELLULOSE CORP	OPEN CEILING AREAS IN FRONT OF HOUSE AND CARRY OUT – PROVIDE 2" OF SPRAY FOR ALL
T-8	PAINT	CORP. SPRAY-ON.COM SHERWIN WILLIAMS	_	SW9141	SEMI GLOSS	SPRAY-ON.COM SHERWIN WILLIAMS RETAILER	FOH AREAS – SEE A2.1 FOR LOCATIONS BACK OF HOUSE DOORS AND FRAMES
T—9	PAINT	SHERWIN WILLIAMS	_	WATERLOO SW9137	PEARL OR EGGSHELL	SHERWIN WILLIAMS RETAILER	OFFICE WALLS & EMPLOYEE RESTROOM WALLS
T-10	PAINT	SHERWIN WILLIAMS	_	NIEBLA AZUL SW7570	PEARL OR EGGSHELL	SHERWIN WILLIAMS RETAILER	PAINT FOR WALLS ABOVE TILE BOH - KITCHEN ENTRY, CHIP AND WRAP STATION
T-10	PAINT FOR CMU AT TRASH			EGRET WHITE SW 7007			·
	ROOM	SHERWIN WILLIAMS	LOXON XP	BRIGHT WHITE # OC-32	SATIN	SHERWIN WILLIAMS RETAILER	PAINT FOR CMU WALLS IN TRASH ROOM
T-12	PAINT	BENJAMIN MOORE	-	TAPESTRY BEIGE	PEARL OR EGGSHELL	BENJAMIN MOORE RETAILER	PAINT FOR WALLS AT CARRY OUT – BASE FOR FAUX FINISH 1
T-13	PAINT	SHERWIN WILLIAMS	-	#SW6258 TRICORN BLACK	SEMI GLOSS	SHERWIN WILLIAMS	BLACK PAINT FOR MISC METAL SURFACES
T—14	PAINT	BENJAMIN MOORE	-	SIMPLY WHITE OC-117	FLAT	BENJAMIN MOORE RETAILER	CEILING PAINT FOR VESTIBULE, AND CORRIDOR 1
T-15	PAINT	BENJAMIN MOORE	-	TBD	FLAT	BENJAMIN MOORE RETAILER	PAINT FOR FRONT OF HOUSE DUCTS, TRUSSES AND DRYWALL OVER BAR. COLOR TO MATCH THE K-13 GREY SPRAY.
RICK	:				1		
	FACE CUT INTERIOR BRICK	REP: BRICKS INCORPORATED BRAND: MCNEAR BRICK	BRAND: MCNEAR BRICK- CHI COLOR: CHICAGO COMMON- I SIZE: STANDARD		I BLED	BRENT SCHMITT 630.730.5156	INTERIOR FACE CUT BRICK RUNNING BOND BRICK , OVER MORTAR. CONTRACTOR TO PROVIDE MORTAR STYLE SAMPLE. SOME AREAS HAVE PAINT/STAINED BRICK. SEE ELEVATIONS FOR LOCATIONS.
	FACE CUT BRICK INTERIOR – SOLDIER COURSE	REP: BRICKS INCORPORATED BRAND: MCNEAR BRICK	BRAND: MCNEAR BRICK- CHI COLOR: CHICAGO COMMON- 1 SIZE: STANDARD		<i>I</i> BLED	BRENT SCHMITT 630.730.5156	INTERIOR FACE CUT BRICK SOLDIER COURSE BRICK , OVER MORTAR. CONTRACTOR TO PROVIDE MORTA STYLE SAMPLE. SOME AREAS HAVE PAINT/STAINED BRICK. SEE ELEVATIONS FOR LOCATIONS OF SOLDI COURSE AND PAINT/STAIN.
R-3	BASE BRICK – FACE CUT –BLACK SOLDIER COURSE	REP: BRICKS INCORPORATED BRAND: LAKEWOOD BRICK	BLACK BLEND, TUMBLED EDGE	s, smooth finish		BRENT SCHMITT 630.730.5156	BASE BRICK – INTERIOR FACE CUT BRICK, SOLDIER COURSE AT BASE OF INTERIOR WALLS – SEE INTERIOR ELEVATIONS FOR LOCATIONS.
R-4	SOLDIER COURSE FULL CORNER FACE CUT INTERIOR BRICK	REP: BRICKS INCORPORATED BRAND: MCNEAR BRICK	BRAND: MCNEAR BRICK- CHI COLOR: CHICAGO COMMON- I SIZE: STANDARD		/ BLED	BRENT SCHMITT 630.730.5156	FULL CORNER SOLDIER COURSE -FACE CUT BRICK, OVER MORTAR. CONTRACTOR TO PROVIDE MORTAR STYLE SAMPLE. SOME AREAS HAVE PAINT/STAINED BRICK. SEE ELEVATIONS FOR LOCATIONS.
IR-5	RUNNING BOND FULL CORNER FACE CUT INTERIOR BRICK	REP: BRICKS INCORPORATED BRAND: MCNEAR BRICK	BRAND: MCNEAR BRICK- CHI COLOR: CHICAGO COMMON- 1 SIZE: STANDARD		I BLED	BRENT SCHMITT 630.730.5156	FULL CORNER RUNNING BOND -FACE CUT BRICK , OVER MORTAR. CONTRACTOR TO PROVIDE MORTAR STYLE SAMPLE. SOME AREAS HAVE PAINT/STAINED BRICK. SEE ELEVATIONS FOR LOCATIONS.
3R-6	FULL CORNER SOLDIER COURSE – BASE BRICK – FACE CUT –BLACK	REP: BRICKS INCORPORATED BRAND: LAKEWOOD BRICK	BLACK BLEND, TUMBLED EDGE: MUST USE FULL CORNER UNIT:			BRENT SCHMITT 630.730.5156	BASE CORNER BRICK – INTERIOR FACE CUT BRICK, SOLDIER COURSE AT BASE OF INTERIOR WALLS – PROVIDE FULL CORNERS. SEE INTERIOR ELEVATIONS FOR LOCATIONS.
AISC	FINISHES:						
	PLASTIC	5001/001	9529-43		ARTISAN		
L-1	LAMINATE PLASTIC	FORMICA	SEA SALT 5784–NG		NATURAL GRAIN		PLASTIC LAMINATE FOR OFFICE COUNTER TOP
L-2	LAMINATE NOT USED, NOW BLACK	FORMICA	ASHWOOD BONE		INATURAL GRAIN		PLASTIC LAMINATE FOR OFFICE SHELVES
3	MELAMINE	TBD	0014 110				NOW MELAMINE FOR CABINET UNIT AT BACK BAR ISLAND WITH WOOD SHIP LAP END PANELS
4	PLASTIC LAMINATE	FORMICA	8914-NG WEATHERED FIBERWOOD		NATURAL GRAIN		PLASTIC FOR CARRY OUT CABINETRY DOORS
۲P	FIBERGLASS REINFORCED PANEL	MARLITE	P100-WHITE	-	SMOOTH	MARLITE 800.377.1221	FOH AT BEVERAGE AND SERVICE STATION AT EXPO. SEE ELEVATIONS. BACK OF HOUSE WALLS WHERE INDICATED ON FLOOR FINISH PLAN. ALL FRP MUST BE SMOOTH. NO EXCEPTIONS.
S	STAINLESS STEEL	KITCHEN SUPPLIER	-	-	-	ADE FOOD SERVICE 630.628-0811	SEE FLOOR FINISH PLAN FOR BOH STAINLESS LOCATIONS. NOTE: WHERE SHOWN ON FULL HEIGHT WALL. STAINLESS PANELS GO TO CEILING.
C-1	WALL COVERING	MDC WALLCOVERING	CUSTOM WALLCOVERING	-	-	SUSAN ERNEST: 847–437–4017 EMAIL: SERNEST@MDCWALL.COM	WOMEN'S & MEN'S ROOM WALL COVERING – ABOVE TILE. SEE ELEVATIONS FOR LOCATIONS WALL COVERING MUST BE RUN RAILROADED. MUST SHOW DESIGNER BEFORE INSTALLATION. PURCHASED BY OWNER AND INSTALLED BY GC.
ORK	CORK	₿" THICK	PAINTED CORK/PT-9				PAINTED CORK TO MATCH OFFICE WALLS
F-1	FAUX FINISH 1	OWNER'S FAUX ARTIST			1		FAUX FINISH 1 – BY OWNER'S ARTIST. ALL WALLS ARE TO BE PAINTED BASE COLOR INDICATED
							ON ELEVATIONS BY GC. FAUX FINISH 2 – BY OWNER'S ARTIST. ALL WALLS ARE TO BE PAINTED BASE COLOR INDICATED
F-2	FAUX FINISH 2	OWNER'S FAUX ARTIST					ON ELEVATIONS BY GC.



Second Number Second N			ROOM	FINI	SH SCHEDULI	E					
No. No. No. Prof. Pr		ROOM NAME		3ASE		Е	S	w			REMARKS
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							PT-1/FF-1	PT-1/FF-1	–	<u> </u>	
No.	101	HOST	CONC-2		WD-1/PT-4	BR-1&2 PT-1/FF-1&PT-3	PT-1/FF-1&PT-3		C-1	17'-4	NOTE WALL AROUND BACK HOST STAND IS NOT FULL HEIGHT AND ALL WOOD SHIP LAP IS PAINTED SEE A11.4 FOR HOST DETAIL
Model Model <t< td=""><td>102</td><td>MAIN DINING</td><td>CONC-2</td><td>BR-3 TL-2</td><td>PT-1/FF-1&PT-3 BR-1&2</td><td>WD-1/PT-4</td><td>PT-1/FF-1&PT-3 BR-1&2</td><td>PT-1/FF-1&PT-3 BR-1&2</td><td>C-1</td><td></td><td>OPEN TO STRUCTURE, 2" ACOUSTIC SPRAY TREATMENT AT OPEN CEILING. NOTE: EAST WALL IS A HALF WALL AND ALL WOOD SHIP LAP IS PAINTED, SEE FINISH LEGEND FOR SPECIFICATIONS AND ELEVATIONS FOR LOCATIONS.</td></t<>	102	MAIN DINING	CONC-2	BR-3 TL-2	PT-1/FF-1&PT-3 BR-1&2	WD-1/PT-4	PT-1/FF-1&PT-3 BR-1&2	PT-1/FF-1&PT-3 BR-1&2	C-1		OPEN TO STRUCTURE, 2" ACOUSTIC SPRAY TREATMENT AT OPEN CEILING. NOTE: EAST WALL IS A HALF WALL AND ALL WOOD SHIP LAP IS PAINTED, SEE FINISH LEGEND FOR SPECIFICATIONS AND ELEVATIONS FOR LOCATIONS.
Image: Probability of the state of the	103	EXPO	CONC-2	T-2		_	· · · · · · · · · · · · · · · · · · ·	-	C-1	17'-4	AND NORTH WALL IS AT EXPO. SEE 5/A10.1 FOR NORTH ELEVATION AND 6B/A10.2 FOR SERVICE. NOTE: PT-3 IS FOR THE AREA OF WALL ABOVE 14'-0".
Instruction Ref Lag Ref Ref <th< td=""><td>104</td><td>BEVERAGE</td><td>CONC-2</td><td>T-2</td><td>•</td><td>CONC-1/SS</td><td>-</td><td>CONC-1/SS</td><td>C-3</td><td></td><td>AND AT THE BOTTOM SOFFIT FRP IS BELOW KEC EQUIPMENT AND SS ON SIDES. SEE DRAWINGS 2/A10.1 FOR WEST WALL AND 11/A10.2 FOR NORTH AND SOUTH ELEVATIONS. NOTE: NO PT-3 ABOVE 14'-0" IN THIS AREA.</td></th<>	104	BEVERAGE	CONC-2	T-2	•	CONC-1/SS	-	CONC-1/SS	C-3		AND AT THE BOTTOM SOFFIT FRP IS BELOW KEC EQUIPMENT AND SS ON SIDES. SEE DRAWINGS 2/A10.1 FOR WEST WALL AND 11/A10.2 FOR NORTH AND SOUTH ELEVATIONS. NOTE: NO PT-3 ABOVE 14'-0" IN THIS AREA.
Normal	105	BAR	FL-1			MTL-3 SS		MTL-3 SS	C-1	<u>17'-4</u> 9'-0"	FL-1 ON WORKER SIDE OF BAR ONLY BASE AND FLOORING. NOTE: B/BAR HAT IS 9'-0" AFF
10 100 00.0 00.0 00.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1	106	BAR DINING	CONC-2					WD-1/PT-4	C-1	17'-4	THE LOW HEIGHT SHIP LAP PAINTED WALL. SEE ELEVATIONS.
matrix matri	107	LOUNGE	CONC-2		_	,	PT-1/FF-1	, ,	C-1		NOTE: WEST WALL FINISHES INCLUDE LOW WALL BY MILLWORKER THAT IS STAINED AND CHAIR RAIL.
initialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitialinitial<	108	CORRIDOR 1	CONC-2	T-2	FF-2/PT-2					11'-0"	NOTE: PAINTER TO PRIME WALLS FOR FAUX FINISHER. THIS IS THE SECOND TYPE OF FAUX FINISH.
10 Name Let Let Single	109	МОР	CONC-2	T-8	FRP	FRP	FRP	FRP		11'-0"	NOTE: ALL FRP IS SMOOTH FINISH
Image mark State $1-2$ $1-3$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$ $1-5$	110	MEN'S TOILET		TL-7				TL-5/WC-1	C-3	10'-0"	NOTE: WALL COVERING IS TO RUN RAIL ROADED. CONFIRM DIRECTION AND LAYOUT PRIOR TO INSTALLATION
12 Ørlø Staton R. R. T. T. <tht.< th=""> <tht.< th=""> T.</tht.<></tht.<>	111	WOMEN'S TOILET	TL-1	TL-7	TL-5/WC-1	TL-5/WC-1	TL-5/WC-1	TL-5/WC-1	C3	10'-0"	NOTE: WALL COVERING IS TO RUN RAIL ROADED. CONFIRM DIRECTION AND LAYOUT PRIOR TO INSTALLATION
Non-Year Prior	112	CHIP/WRAP STATION		FL-1					RP C-2	10'-6	SEE ELEVATIONS FOR HEIGHTS OF TILE, FRP AND AREA OF PAINT
No No<	113	KITCHEN ENTRY	FL-1	FL-1	TL-6/PT-10	TL-6/PT-10	TL-6/PT-10	TL-6/PT-10	C-2	10'-6	SEE ELEVATIONS FOR HEIGHTS OF TILE AND AREA OF PAINT
Action	114	APP COOK LINE	FL-1	FL-1	SS	FRP	FRP	FRP	C-2	10'-6	
IN RP R R R R R R R R R R 10 OLGR A A A SOCUMANTACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	115	COOK LINE 2	FL-1	FL-1	-	FRP	_	SS	C-2	10'-6	NOTE: WALL WITH HOOD HAS STAINLESS ALL SIDES AND STAINLESS IS TO GO 18" ABOVE HOOD ON WALLS WITH HOOD.
IP 0002k FL-1	116	PREP	FL-1	FL-1	FRP	_	_	_	C-2		
Infliction File	117	COOLER	FL-1	FL-1	BY COOLER MANUFACTURE			-			►
10 0SN MASH 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 <	118	COOK LINE 1	FL-1	FL-1	SS	-	FRP	FRP	C-2	10'-6	NOTE: WALL WITH HOOD HAS STAINLESS ALL SIDES AND STAINLESS IS TO GO 18" ABOVE HOOD ON WALLS WITH HOOD.
And Andrew Andrew <td>119</td> <td>DISH WASH</td> <td>FL-1</td> <td>FL-1</td> <td>-</td> <td>SS</td> <td>SS</td> <td>_</td> <td>C-2</td> <td></td> <td></td>	119	DISH WASH	FL-1	FL-1	-	SS	SS	_	C-2		
12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 <th< td=""><td>120</td><td>POT WASH</td><td>FL-1</td><td>FL-1</td><td>_</td><td>SS</td><td>-</td><td>_</td><td>C-2</td><td>10'-6</td><td></td></th<>	120	POT WASH	FL-1	FL-1	_	SS	-	_	C-2	10'-6	
Image: A construction	121	ICE	FL-1	FL-1	FRP	FRP	FRP	FRP	C-2	10'-6	
International International<	122	STORAGE 1	FL-1	FL-1	_	FRP	-	_	C-2	10'-6	
Image: Second	123	OFFICE	FL-1	FL-1	CORK/PT-9	PT-9	PT-9	CORK/PT-9	C-3	9'-0"	
Image: Second	124	MOP	FL-1	FL-1	FRP	FRP	FRP	FRP	C-2	10'-6	
Image: Second	125	EMPLOYEE TOILET 1	TL-11	TL-2	TL-4/PT-9	TL-4/PT-9	TL-4/PT-9	TL-4/PT-9	C-3	9'-0"	
128 STORAGE 2 FL-1 FL-1 FL-1 FRP - - C-2 10'-6 129 BEER FL-1 FL-1 BY COOLER MANUFACTURE - - - -	126	EMPLOYEE TOILET 1	TL-11	TL-2	TL-4/PT-9	TL-4/PT-9	TL-4/PT-9	TL-4/PT-9	C-3	9'-0"	
120 STORAGE 2 FL-1 FL-1 FL-1 129 BER FL-1 FL-1 BY COOLER MANUFACTURE	127	ELECTRICAL ROOM	FL-1	FL-1	PLYWOOD PAINTED	PLYWOOD PAINTED	PLYWOOD PAINTED	PLYWOOD PAINTED	C-4	OPEN	
	128	STORAGE 2	FL-1	FL-1	_	FRP	-	-	C-2	10'-6	
EX129 COVERED PATIO EXCONC-2 EXBR-2	129	BEER	FL-1	FL-1	BY COOLER MANUFACTURE						·
	EX129	COVERED PATIO									

KITCHEN EQUIPMENT
AREA RUGS
TILES - TL-1 THROUGH TL-11
TRANSITION STRIPS - SCHL-1 THROU
FL-1/ECO-GRIP FLOOR
CONC-1
CONC-2
CONC-3
CONC-4
STN-1/STN-2/STN-3 MTL-1 THROUGH MTL-5
BRICK – ALL INTERIOR
STONE - ALL EXTERIOR
FAUX FINISH - 1/ FAUX FINISH -2
CUSTOM WALL COVERING
STAINLESS STEEL PANELS BOH
CORK
FRP - FIBERGLASS REINFORCED PANE
LIGHTS - CAN, DOWN & STRIP LIGHTS
LAMPS FOR CAN, DOWN & STRIPS
BOH 2 X 4 LIGHTING - ALL
EXIT LIGHTS FOH AND BOH
EMERGENCY LIGHTS FOH AND BOH
PENDANT LIGHTS – P–1/P–2/P–3/P PENDANT LAMPS – P–1/P–2/P–3/P
FANS - ALL
WALL SCONCES - ALL INTERIOR AND
WALL SCONCES LAMPS - ALL INTERIC
PATIO HEATERS
BOOTHS
TABLE TOPS & BASES - INTERIOR &
CHAIRS, BAR STOOLS, OFFICE CHAIRS,
DECORATIVE TABLES, LOUNGE SOFAS
ART & ARTIFACTS INTERIOR DECORATIVE AND REQUIRED
RESTROOM ACCESSORIES - SEE SHE
RESPONSIBILITY
PLUMBING FIXTURES: SINKS, FAUCETS URINALS, ETC SEE SHEETS A8.1-A8.
RECESSED FIRE EXTINGUISHERS
RESTROOM PARTITIONS
RESTROOM TRASH CANS
EXTERIOR TRASH CANS
METAL WIRE CAGE ABOVE BAR
MURALS - EXTERIOR AND INTERIOR
TV'S – ALL LOCATIONS POS SYSTEM
PHONE SYSTEM
MUSIC SYSTEM
SECURITY SYSTEM
PAINTING OF EXTERIOR STEEL AWNING
EXTERIOR MARQUEE LIGHT FIXTURS @
EXTERIOR MARQUEE LAMPS @ ENTRY
EXTERIOR SIGNAGE
PAINTING & STAINING AT INTERIOR AN
EXTERIOR FENCING – BOTH CEDAR AN LIMESTONE SILL AT MURAL
LANDSCAPE 12" BLACK DIRT – LAND
LANDSCAPE 12 BLACK DIRT - LAND
NOTES:
THE FOLLOWING IS INCLUDED IN THE
1. HOST STAND FRONT & BACK 2. CARRY OUT CABINETRY. SEE
 CARRY OUT CABINETRY. SEE LOW WALL SHIP LAP CLADDIN

1. 2.	HOST STAND FRONT & BACH CARRY OUT CABINETRY. SEE
z. 3.	
ა.	LOW WALL SHIP LAP CLADDI
	A10.1-A10.3
4.	PAINTED SHIP LAP WALL AT
5.	SOLID WOOD SHELVES AT EX
6.	BLACK POWDER COATED ME
	CLAVOS AT EXPO & AT ALL
7.	STAINED WOOD SOLIDS AND
8.	GUEST ROOM PAINTED SHIP
	PROTECTIVE SINK SHROUD &
9.	INSTALLATION OF OWNER PR
10.	
	BAR: ITEMS SEE PAGES A11.2
11.	BLACK POWDER COATED STR
12.	
13.	
14.	ISLAND END CABINETRY WITH
15.	WOOD FACED AND ACRYLIC
	BY OWNER, INSTALLED BY E
16.	HANGING BLACK POWDER CO
	CEDAR UNDERSIDE. (LIGHTIN
17.	TV HANGING BLACK POWDER
18.	BLACK PAINTED WOOD END
19.	INSTALLATION OF OWNER SU
15.	OFFICE:
20.	LAMINATE SHELVING, COUNT
	CORK FOR BACK SPLASH
۲۱.	OTHER:
22	WOOD DOORS - SEE DIVISIO
	FAUX STEEL C- CHANNEL
20.	THOR STELL O OTAMINEL

			A	E E			
	GC PURCHASE	GC INSTALL	MONNER PURCHASED	OWNER'S INSTALLER	MANUFACTURER'S SUPPLIED	MANUFACTURERS	REMARKS GC TO COORDINATE INSTALLATION OF OWNER'S SUPPLIED KITCHEN EQUIPMENT WITH KITCHEN DESIGNER, TO INSURE THAT A
							POWER AND WATER REQ' ARE MET PER K-SHEETS. CARPET NOT USED IN THIS LOCATION
							DESIGNER TO PLACE ON SITE WITH GC. GC TO PROVIDE TAPE FOR CARPETS AT PERIMETER
TL-11		0	0				SEE INTERIOR ELEVATIONS FOR LOCATIONS OF TILES PURCHASED BY OWNER
CHL-1 THROUGH SCHL-3	\bigotimes	0					SCHLUTER COVE, END BASE AND TRIM AT RECESSED MAT ALL PURCHASED AND INSTALLED BY GC.
			0			\bigotimes	GC TO COORDINATE OWNER'S PURCHASED ECO-GRIP FLOOR AND TO PREP FLOOR PER SPEC FOR MFR'S INSTALLERS
							DESIGNER/ARCHITECT MUST APPROVE FINISH PRIOR TO INSTALLATION GC TO PROVIDE SAMPLE
		Ø					DESIGNER/ARCHITECT MUST APPROVE FINISH PRIOR TO FINAL POUR
		Ø Ø					DESIGNER/ARCHITECT MUST APPROVE FINISH PRIOR TO INSTALLATION. GC TO PROVIDE SAMPLE
							GC TO PROVIDE SAMPLES FOR APPROVAL
							GC TO PROVIDE SAMPLES FOR APPROVAL
		0	Ø				NOTE OWNER DOES NOT PURCHASE MORTAR OR ANY SUPPLIES RELATED TO INSTALLATION OF MASONRY
		0					GC TO PROVIDE SAMPLES FOR APPROVAL
FINISH -2			٢	۲			WALLS ARE TO BE BASE PAINTED BY GC. SPEC PER INFORMATION ON FINISH LEGEND. GC TO COORDINATE TIMING.
		۲	۲				WALLCOVERING IS TO RUN RAILROADED. VERIFY INSTALLATION INSTRUCTIONS WITH DESIGNER PRIOR TO INSTALL.
S BOH						\bigotimes	KEC TO PROVIDE BOH STAINLESS PANELS - INSTALLED BY KEC. SEE A12.1 FOR LOCATIONS OF STAINLESS WALLS PANELS
	\bigotimes						CORK AT OFFICE ABOVE COUNTER TOP.
ORCED PANELS - SMOOTH		0					SEE A12.1 FOR LOCATIONS OF FRP WALLS
STRIP LIGHTS		0	© ©				SEE 2.1 FOR LOCATIONS AND FOR SPECIFICATIONS SEE 2.1 FOR SPECIFICATIONS
& STRIPS		Ø Ø					SEE 2.1 FOR SPECIFICATIONS SEE 2.1 FOR LOCATIONS AND FOR SPECIFICATIONS
							SEE E-SHEETS FOR LOCATIONS AND A2.1 FOR SPECIFICATIONS
AND BOH		Ø	©				SEE E-SHEETS FOR LOCATIONS AND A2.1 FOR SPECIFICATIONS
′P-2/P-3/P-4/P-5/P-6/P-7		0	Ø				NOTE: P-7 REQUIRES METAL GRID TO BE MADE BY GC AND INSTALLED BY GC
P-2/P-3/P-4/P-5/P-6/P-7		0	0				DESIGNER TO PROVIDE LAMP GUIDE FOR ALL OWNER SUPPLIED FIXTURES. GC TO INSTALL .
		۲	0				SEE 2.1 FOR LOCATIONS AND FOR SPECIFICATIONS
TERIOR AND EXTERIOR		0	0				SEE 2.1 FOR LOCATIONS AND FOR SPECIFICATIONS
ALL INTERIOR AND EXTERIOR							DESIGNER TO PROVIDE LAMP GUIDE FOR ALL OWNER SUPPLIED FIXTURES. GC TO INSTALL .
		Ø					SEE E-SHEETS FOR LOCATIONS AND A2.1 FOR SPECIFICATIONS
INTERIOR & PATIO		Ø 0					GC TO INSTALL BOOTHS PURCHASED BY OWNER GC TO RECEIVE, AND INSTALL ALL FURNITURE – ASSEMBLY DIR. PROVIDED BY DESIGNER
FICE CHAIRS,							GC TO RECEIVE, AND INSTALL ALL FURNITURE - ASSEMBLY DIR. PROVIDED BY DESIGNER
INGE SOFAS AND CHAIRS		Ø	l i i i i i i i i i i i i i i i i i i i				GC TO RECEIVE, AND INSTALL ALL FURNITURE – ASSEMBLY DIR. PROVIDED BY DESIGNER
		0	Ø				GC TO RECEIVE & HANG ANY ART PER DESIGNERS DIRECTIONS.
D REQUIRED SIGNAGE		0	0				GC TO INSTALL ALL INTERIOR SIGNAGE PER DESIGN DIRECTION
– SEE SHEETS A8.1–A8.3 FOR							SEE SHEETS A8.1- A8.3 FOR RESPONSIBILITY
KS, FAUCETS, TOILETS, FLUSHERS,							SEE SHEETS A8.1– A8.3 FOR RESPONSIBILITY
TS A8.1-A8.3 FOR RESPONSIBILITY							
CHERS							NOTE THESE ARE IN THE MILLWORK SCOPE OF WORK.
	*#						
		0	©				
BAR		٢					PART OF MILLWORK SCOPE
		۵					SEE NOTE BELOW FOR SCOPE OF MILLWORK
) INTERIOR			0	0			
			Ø			-	
						<u></u>	
						 Ø	
						 Ø	
EEL AWNINGS						<i>\</i>	
EEL AWNINGS FIXTURS @ ENTRY CANOPY	~	©					
S @ ENTRY CANOPY		©	©				
			0		Ø	\bigotimes	GC TO COORDINATE NECESSARY POWER IS FED TO EACH SIGN AND EXTERIOR LIGHTING AS SHOWN ON E-SHEETS
INTERIOR AND EXTERIOR		0					
TH CEDAR AND METAL	٢	٢					
L	۲						

MILLWORK	SCOPE:

COUNTERS. SEE A11.4 E A11.4 DDINGS: PAINTED SHIP LAP, PAINTED WOOD SOLID CAPS. SEE SHEET AETS

AT EXPO. SEE A10.1 EXPO. SEE A10.1

ETAL STRAPPING AND CORNERS, INCLUDING 1 1/4" BLACK HAMMERED LL LOW WALLS. SEE A10.1-A10.3

ID VENEERS FOR LOW WALL AT LOUNGE. SEE A10.3 IP LAP STALLS WITH POWDER COATED BLACK METAL FRAMES, ADA

PROVIDED DOOR PUSH, PULLS & DECORATIVE COAT HOOKS. COATED KICK PLATES. SEE A9.1

1.2 AND A11.3 TRAPPING AT CONCRETE COUNTER SEAMS.

PANELS ON GUEST SIDE OF DIE WALL WITH PAINTED SHIP LAP CLADDING

C TOPPED STEPPED "WEDDING CAKE" LIQUOR STEPS. (LIGHTING PROVIDED ELEC SUB). COATED LIQUOR DISPLAY CAGE AND METAL MESH, INCLUDING STAINED TING BY OWNER INSTALLED BY GC'S ELEC). ER COATED STRUCTURE

) CAPS FOR TV'S SUPPLIED CUSTOM PURSE HOOKS.

INTER TOP AND ADJUSTABLE STANDARDS

SION 8 AND SHEET A9.1

GENERAL NOTES:

1. CONTRACTOR TO PROVIDE STORAGE "PODS/CONNEX" BOXES FOR OWNER SUPPLIED ITEMS.

(FURNITURE, LIGHTING, TILE, ETC). CONTRACTOR TO RECEIVE, STORE AND ORGANIZE OWNER SUPPLIED ITEMS BY STORAGE CONTAINER. COORDINATE ARRIVAL DATE OF CONTAINER WITH OWNER. 4. BUILDING MATERIALS NOT TO BE STORED WITH OWNER SUPPLIED ITEMS.

5. CONTRACTOR TO RELOCATE ANY EXISTING IN MALL STORAGE ITEMS TO SITE CONTAINERS AS NEEDED FOR CONSTRUCTION.

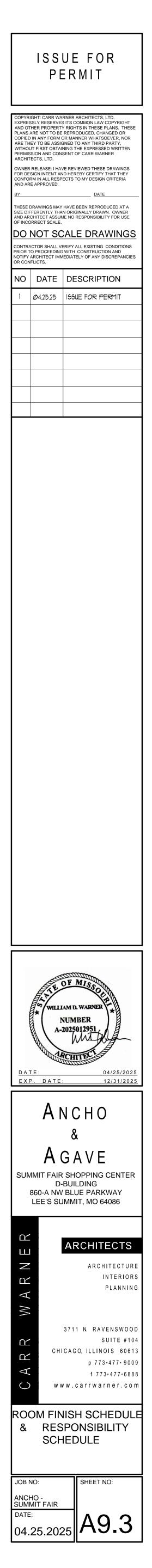
6. ALL FURNITURE ASSEMBLED BY OWNER'S FURNITURE ASSEMBLER. 7. ON OWNER FURNISHED ITEMS SUCH AS TILE, NOTE GC'S SUB IS TO PROVIDED FLOOR PREP

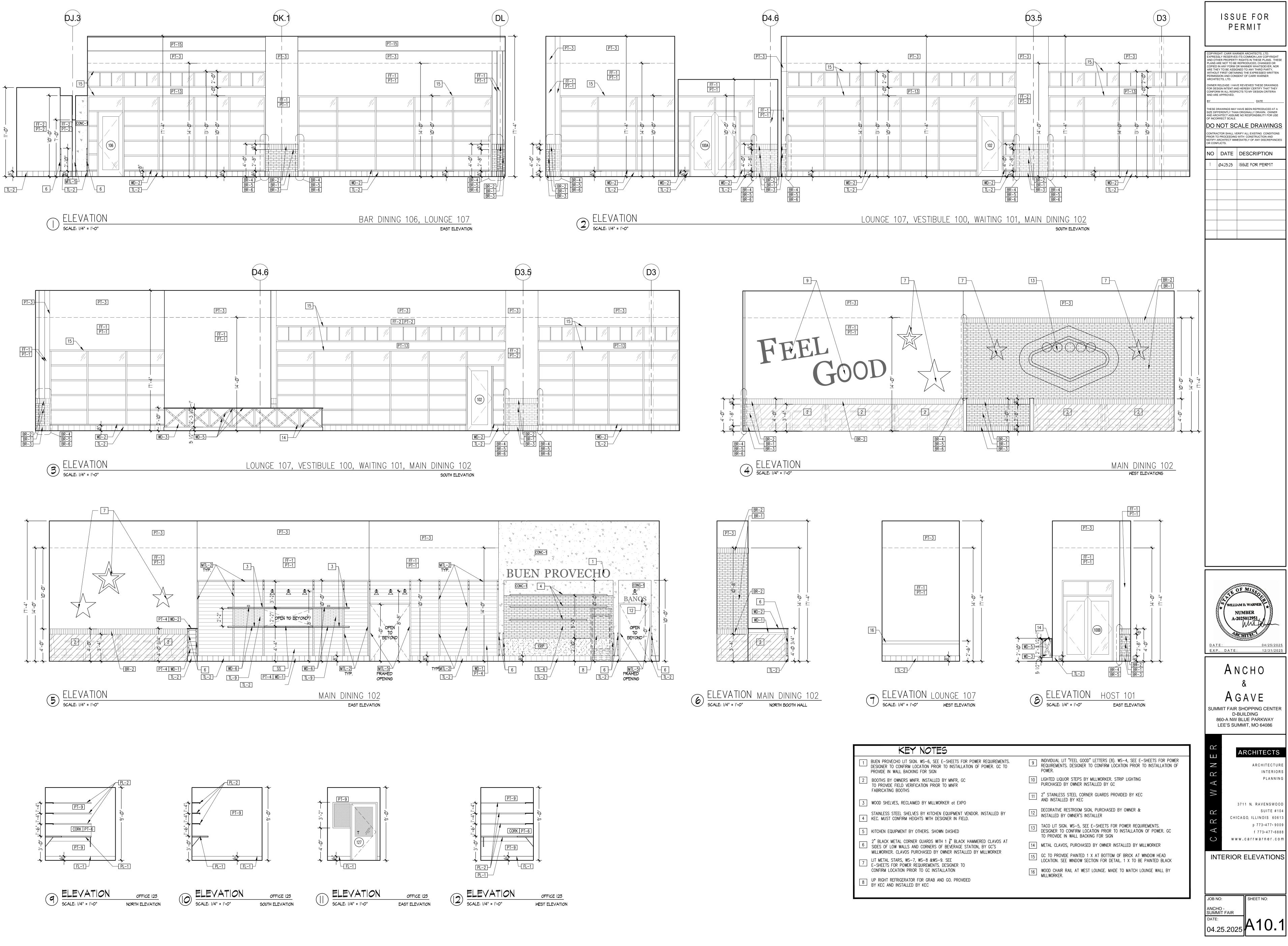
MATERIALS AND GROUT AS SPECIFIED.

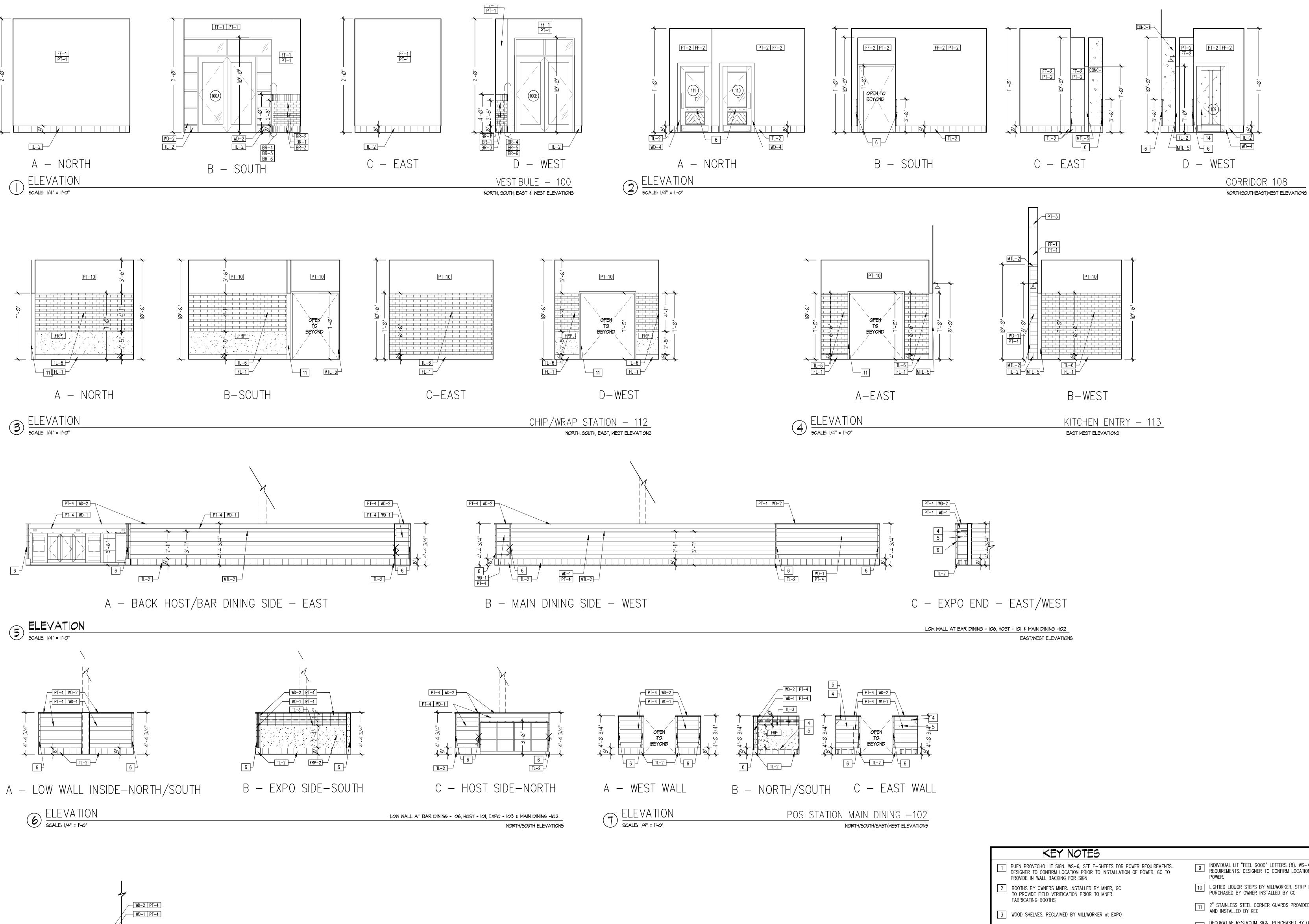
8. GC TO COORDINATE THE INSTALLATION OF THE OWNER PROVIDED FL-1 AND PREPARE THE CONC-4 FLOORING TO RECEIVE THE FL-1 FLOORING. 9. ALL LAMPS FOR LIGHTING PROVIDED BY OWNER AND INSTALLED BY GC'S SUB. OWNER WILL PROVIDE A LAMPING GUIDEBOOK PRIOR TO INSTALLATIOIN. 10. GC IS RESPONSIBLE FOR ALL PAINTING/BASE PAINTING PER DOCUMENTS, INCLUDING BUT NOT

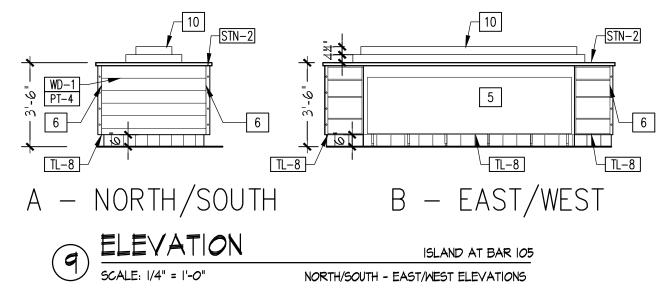
LIMITED TO THE FOLLOWING: WALLS, WOOD WALLS, TOILET PARTITIONS, CEILINGS, DOORS, FRAMES, BRICK, ALL EXPOSED TRUSSES, DUCT WORK AND COORDINATION OF 2" ACOUSTICAL SPRAY PER SPECS INSTALLATION INSTRUCTIONS.

11. GC'S SUB TO PROVIDE ALL CONDUIT, WIRING & CONNECTIONS, TRANSFORMERS, CABINETS ETC FOR OWNER SUPPLIED LIGHT FIXTURES ON INTERIOR AND EXTERIOR







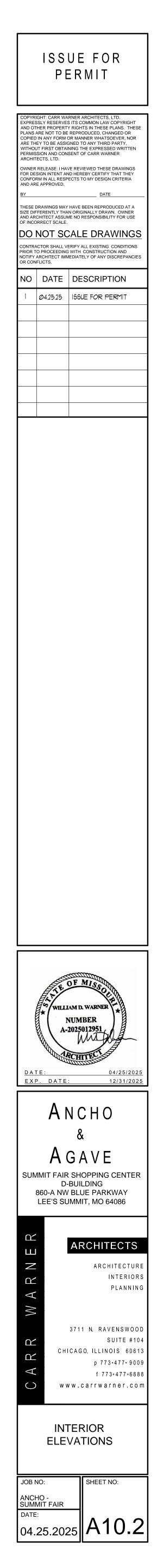


B ELEVATION LOW WALL AT EXPO CORNER SCALE: 1/4" = 1'-0" WEST ELEVATION

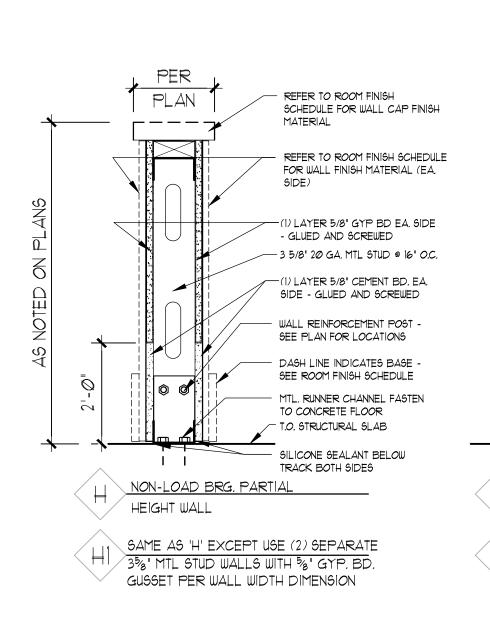
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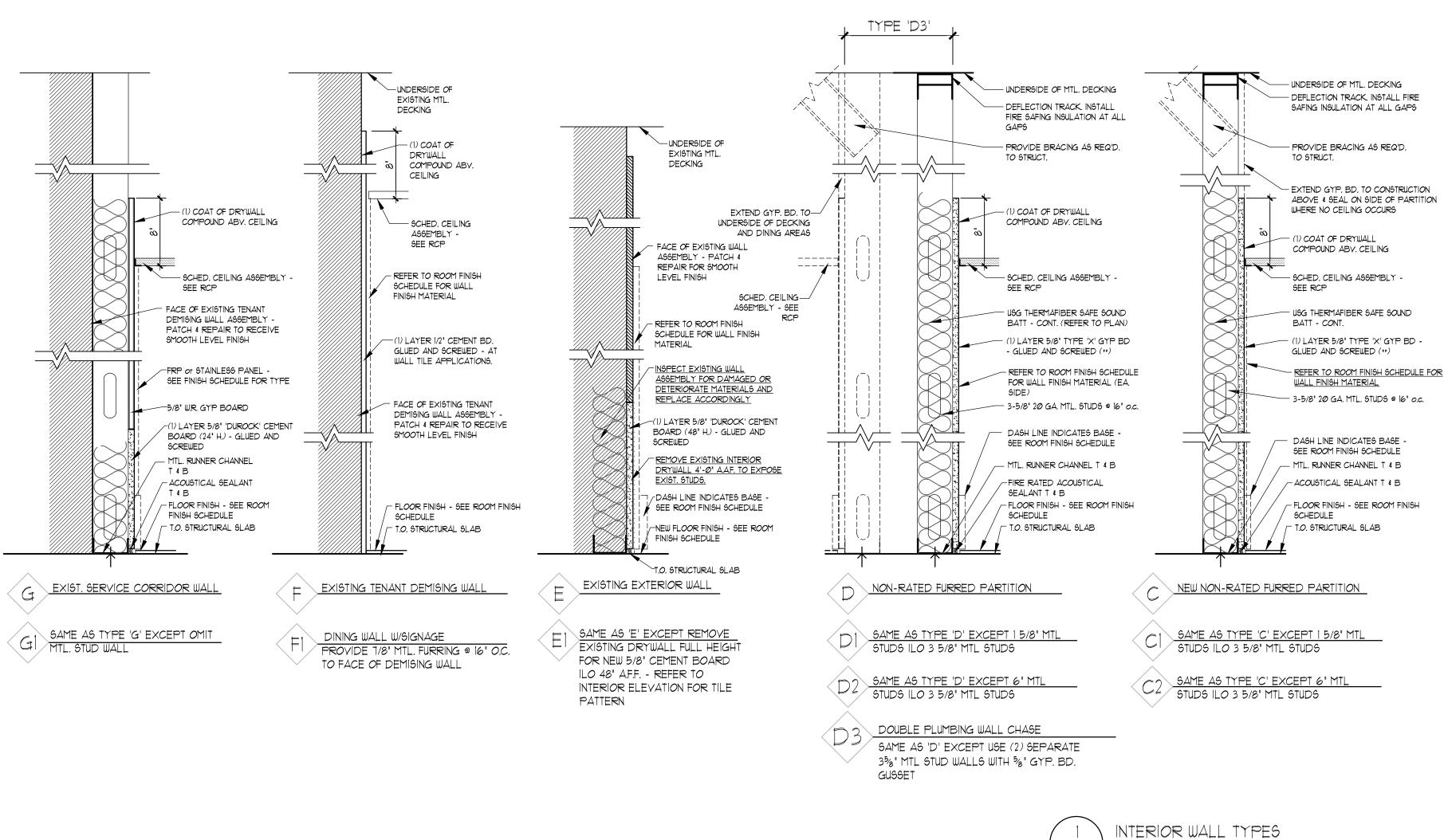
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KEY NOTES	
IBUEN PROVECHO LIT SIGN. WS-6, SEE E-SHEETS FOR POWER REQUIREMENTS. DESIGNER TO CONFIRM LOCATION PRIOR TO INSTALLATION OF POWER. GC TO PROVIDE IN WALL BACKING FOR SIGN	9 INDIVIDUAL LIT "FEEL GOOD" LETTERS (8). WS-4, SEE E-SHEETS FOR POWE REQUIREMENTS. DESIGNER TO CONFIRM LOCATION PRIOR TO INSTALLATION O POWER.
2 BOOTHS BY OWNERS MNFR. INSTALLED BY MNFR, GC TO PROVIDE FIELD VERIFICATION PRIOR TO MNFR FABRICATING BOOTHS	10 LIGHTED LIQUOR STEPS BY MILLWORKER. STRIP LIGHTING PURCHASED BY OWNER INSTALLED BY GC
3 WOOD SHELVES, RECLAIMED BY MILLWORKER at EXPO	11 2" STAINLESS STEEL CORNER GUARDS PROVIDED BY KEC AND INSTALLED BY KEC
4 STAINLESS STEEL SHELVES BY KITCHEN EQUIPMENT VENDOR. INSTALLED BY KEC. MUST CONFIRM HEIGHTS WITH DESIGNER IN FIELD.	12 DECORATIVE RESTROOM SIGN, PURCHASED BY OWNER & INSTALLED BY OWNER'S INSTALLER
5 KITCHEN EQUIPMENT BY OTHERS. SHOWN DASHED	13TACO LIT SIGN. WS-5, SEE E-SHEETS FOR POWER REQUIREMENTS. DESIGNER TO CONFIRM LOCATION PRIOR TO INSTALLATION OF POWER. GC TO PROVIDE IN WALL BACKING FOR SIGN
2 " BLACK METAL CORNER GUARDS WITH 1 $\frac{1}{4}$ " BLACK HAMMERED CLAVOS AT SIDES OF LOW WALLS AND CORNERS OF BEVERAGE STATION, BY GC'S MILLWORKER. CLAVOS PURCHASED BY OWNER INSTALLED BY MILLWORKER	14 METAL CLAVOS, PURCHASED BY OWNER INSTALLED BY MILLWORKER
ZLIT METAL STARS, WS-7, WS-8 &WS-9. SEEE-SHEETS FOR POWER REQUIREMENTS. DESIGNER TO	15 GC TO PROVIDE PAINTED 1 X AT BOTTOM OF BRICK AT WINDOW HEAD LOCATION. SEE WINDOW SECTION FOR DETAIL. 1 X TO BE PAINTED BLACK
CONFIRM LOCATION PRIOR TO GC INSTALLATION UP RIGHT REFRIGERATOR FOR GRAB AND GO. PROVIDED BY KEC AND INSTALLED BY KEC	[16] WOOD CHAIR RAIL AT WEST LOUNGE. MADE TO MATCH LOUNGE WALL BY MILLWORKER.

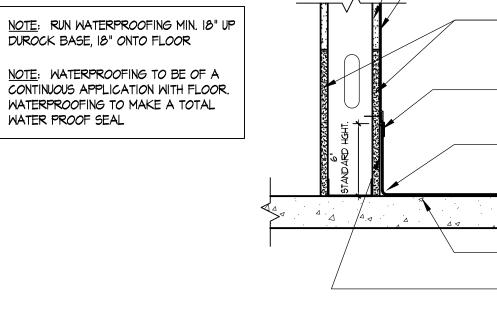


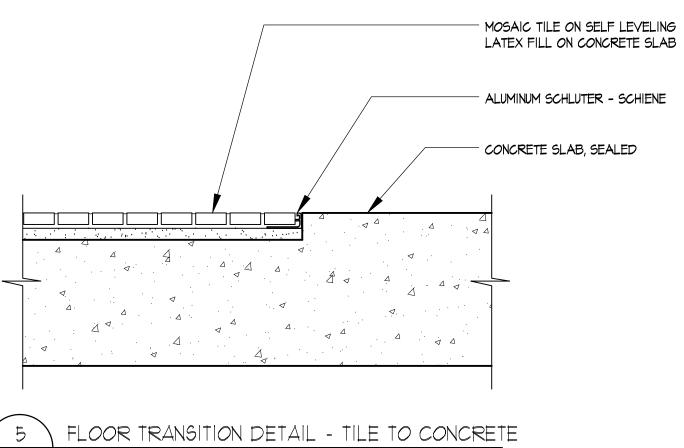
EETS FOR POWER INSTALLATION OF





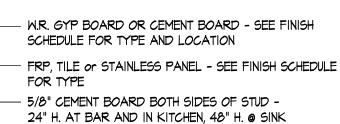








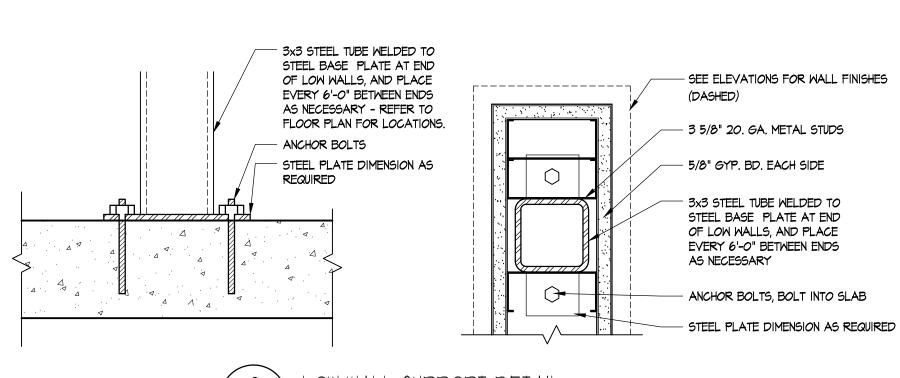
SCALE: N.T.S.



LOCATIONS, FULL HEIGHT @ DISHWASHER LOCATIONS. APPROVED ECO-GRIP BASE CAP AND SEALANT WITH APPROVED FASTENER OR TERMINATION TRIM TO MATCH

SCHEDULED WALL FINISH ECO-GRIP FLOORING SYSTEM ON ECO-GRIP EPOXY ADHESIVE WITH I" RADIUS ROUTED COVE

CONCRETE SLAB - PREPARE SLAB TO RECEIVE ECO-GRIP EPOXY ADHESIVE BINDER WATERPROOFING THROUGHOUT KITCHEN- APPLY TO FACE OF DUROCK MIN. OF 18" HIGH (TYP.)



LOW WALL SUPPORT DETAIL A

A11,1

SCALE: N.T.S.

- SEE ELEVATIONS FOR WALL FINISHES

- 5/8" GYP. BD. EACH SIDE

3x3 STEEL TUBE WELDED TO STEEL BASE PLATE AT END OF LOW WALLS, AND PLACE EVERY 6'-O" BETWEEN ENDS

ANCHOR BOLTS, BOLT INTO SLAB

GENERAL PARTITION NOTES:

PARTITIONS ARE INDICATED ON FLOOR PLANS BY GRAPHIC DESIGNATION AND/OR TYPE SYMBOL – REFER TO PARTITION LEGEND. LINE OF STRUCTURE INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY - VERIFY EXISTING CONDITIONS IN FIELD.

DO NOT FASTEN PARTITION STUDS AND GYPSUM BOARD TO METAL CEILING RUNNER, TO ALLOW FOR STRUCTURAL DEFLECTION. PROVIDE BRACING WHERE PARTITION HEIGHT EXCEEDS MANUFACTURER'S ALLOWABLE HEIGHT. DO NOT BRACE TO DUCTWORK OR OTHER SUCH COMPONENTS VERIFY ALLOWABLE HEIGHT PSF REQUIREMENTS WITH LOCAL CODE AUTHORITIES. THE FIRE RATINGS AND STC RATINGS NOTED FOR THE GYPSUM BOARD PARTITION ASSEMBLIES SHOWN ARE COPIED AND TRANSCRIBED HERE FOR CONVENIENCE ONLY FROM THE UNDERWRITERS LABORATORY DIRECTORY AND THE UNITED STATES GYPSUM CATALOG. WALL ASSEMBLIES AND PARTITIONS THAT RECEIVE FIRE RESISTIVE RATINGS SHALL BE CONSTRUCTED PER TESTED ASSEMBLIES. MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS OF ALL APPLICABLE CODES AND LOCAL GOVERNING AUTHORITIES. PENETRATIONS OR PRODUCTS FOR USE IN SPECIFIC FIRE RATED PARTITION ASSEMBLIES SHALL BE BASED ON SUCCESSFUL PERFORMANCE IN FIRE TESTS. THESE PENETRATIONS MAY INCLUDE BUT ARE NOT LIMITED TO ITEMS SUCH AS PIPING, CONDUIT, OR

HVAC DUCTWORK.

EACH PARTITION SHOWN ON THE DRAWINGS TO BE A FIRE AND/OR SMOKE RESISTANT PARTITION SHALL BE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL, 8'-0" O.C.

FIRE AND/OR SMOKE RESISTANT RATINGS ARE TO CONTINUE ABOVE ALL OPENINGS IN RATED PARTITIONS. . ELECTRICAL RECEPTACLES SHALL NOT BE LOCATED IN FIRE RATED PARTITIONS IN EXCESS OF TWO HOURS.

. THE SURFACE AREA OF INDIVIDUAL METALLIC OUTLET OR SWITCH BOXES SHALL NOT EXCEED 16 SQ. IN. THE AGGREGATE SURFACE AREA OF BOXES SHALL NOT EXCEED 100 SQ. IN. PER 100 SQ. FT. OF WALL AREA. A HORIZONTAL DISTANCE OF 24 IN. SHALL SEPARATE BOXES LOCATED ON OPPOSITE SIDES OF PARTITIONS.

. BOXES LOCATED IN CORRIDOR AND UNIT DEMISING PARTITIONS SHALL BE TREATED WITH ACOUSTICAL SEALANT AROUND PERIMETER AND BEHIND EACH BOX (FULL CLOSURE BED). IN ADDITION, OUTLET AND JUNCTION BOXES SHALL BE SEPARATED BY INSTALLING A METAL STUD BETWEEN THEM IN THE PARTITION.

. COMPLETELY SEAL WITH CONTINUOUS ACOUSTICAL SEALANT ALL PARTITION HEADS, BASES, AND ENDS, PLUS SEAL ALL PENETRATIONS, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING WORK. 4. SOUND ATTENUATION BLANKETS ARE TO BE INSTALLED IN ALL PARTITIONS SEPARATING PUBLIC FROM PRIVATE AREAS AND WHERE NOISE CAN BE TRANSMITTED (RESTROOMS) EXTEND BLANKETS FULL HEIGHT OF PARTITION UP TO BOTTOM OF STRUCTURE. INSTALLED IN

TIGHT, COMPRESSION FIT TO STUDS, STRUCTURE AND ADJACENT SURFACES. . FINAL LOCATION AND PLACEMENT OF MEPFP ITEMS (BOTH HORIZONTAL AND VERTICAL) SHALL BE COORDINATED SUCH THAT THEY DO NOT TOUCH STUD PARTITION ASSEMBLIES AND CREATE AN ACOUSTICAL PROBLEM SUCH AS VIBRATION, IMPACT NOISE, ETC. 5. PROVIDE FIRE RETARDANT WOOD BLOCKING IN METAL STUD PARTITIONS AS REQUIRED FOR SUPPORT AND/OR INSTALLATION OF DOOR FRAMES, MOLDINGS, MILLWORK, WALL PANELS, HANDRAILS, GRAB BARS, AND/OR PARTITIONS WHICH CONTAIN PLUMBING FIXTURES

(SUCH AS WET WALLS AND WALLS ADJACENT TO AND BEHIND PLUMBING FIXTURES) U.N.O. CEMENTITIOUS BACKER BOARD SHALL BE USED AT PARTITIONS WHICH CONTAIN BATHROOM OR KITCHEN PLUMBING FIXTURES U.N.O. 8. USE GALVANIZED METAL CORNER BEADS AND EDGE TRIMS (OR SCREEDS AS REQUIRED) IN ALL EXPOSED WORK, POSITIVELY ATTACHED WITH FASTENERS.

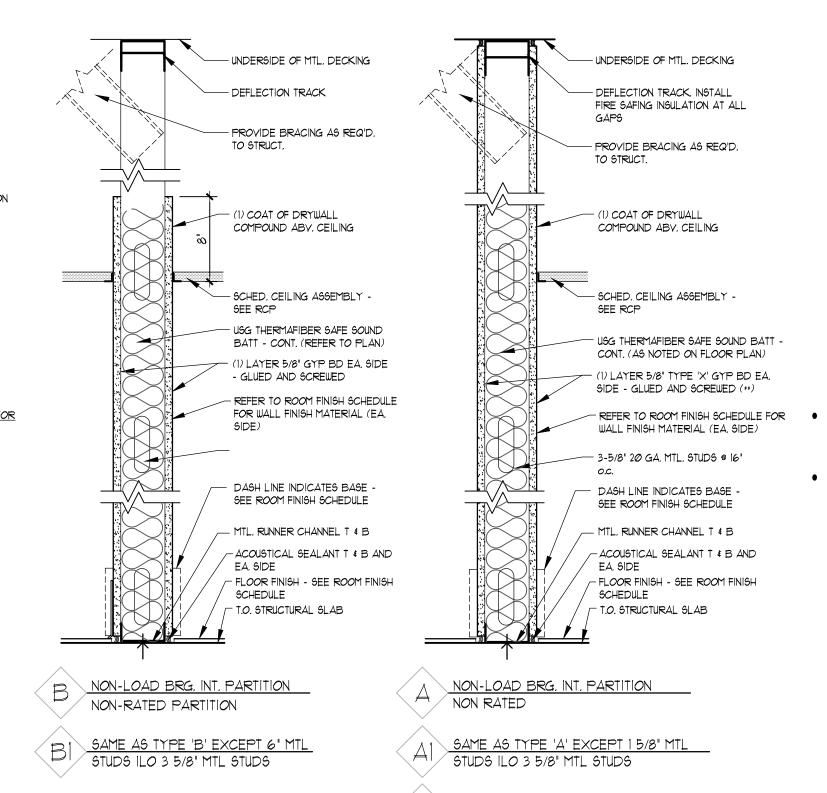
9. TAPE AND APPLY JOINT COMPOUND TO ALL INTERIOR CORNERS AND MOVEMENT CONTROL JOINTS IN GYPSUM BOARD PARTITIONS U.N.O. 0. PROVIDE VERTICAL CONTROL JOINTS FOR ANY UNINTERRUPTED PARTITION LENGTH AT 30'-0" O.C. IN THE HORIZONTAL DIRECTION

WHERE INDICATED OR AS REQUIRED. VERIFY LOCATIONS WITH ARCHITECT BEFORE INSTALLATION. . ALL PLUMBING, MECHANICAL AND ELECTRICAL WORK WITHIN PUBLIC SPACES IS TO BE CONCEALED BY PAINTED SUSPENDED GYPSUM BOARD SOFFITS AND CEILINGS, COORDINATE LOCATIONS WITH MEP-FP DRAWINGS.

2. ALL MASONRY PARTITIONS THAT EXTEND BETWEEN STRUCTURAL CONCRETE COLUMNS AND/OR SHEAR WALLS SHALL HAVE VERTICAL SEALANT JOINTS BETWEEN CONCRETE AND MASONRY.

3. ALL FIRESAFED MASONRY PARTITIONS SHALL HAVE CONTINUOUS FIRESAFING OF DENSITY AS SPECIFIED. PROVIDE CONTINUOUS JOINT FILLER AND ELASTOMERIC SEALANT AT THE TOP OF THE WALL AND UNDERSIDE OF STRUCTURE. 4. INTERSECTIONS OF MASONRY PARTITIONS SHALL BE CONSTRUCTED BY INTERLOCKING ALTERNATE COURSES OF MASONRY AND INSTALLING METAL TIES, RIGID ANCHORS, OR PREFABRICATED JOINT REINFORCEMENT.

25. COORDINATE LOCATIONS OF ALL OPENINGS REQUIRED IN MASONRY PARTITIONS WITH ARCHITECTURAL, STRUCTURAL AND MEP DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE AND REINFORCING SCHEDULE. 26. SEE FINISH PLAN FOR WATERPROOFING REQUIREMENTS



A2 SAME AS TYPE 'A' EXCEPT 6" MTL STUDS ILO 3 5/8" MTL STUDS

* PROVIDE CORNER & J-BEADS AT ALL CORNERS & TERMINATIONS OF GYP. BD.

- (**) REFER TO SHEET #A12,1 FLOOR FINISH PLAN AND SHEETS #AIØ.1-AIØ.3 INTERIOR ELEVATIONS FOR SELECTED WALL FINISH.
- IN LIEU OF 5/8" GYPSUM BOARD:
- @ FRP: 5%" CEMENT BOARD or 5%" P.T. PLYWOOD • a TILE: $\frac{5}{8}$ " CEMENT BOARD
- @ THIN BRICK: 5%" CEMENT BOARD. • @ STN. STL. PANELS: 5%" CEMENT BOARD.

NOTES: 1. REFER TO WALL SECTIONS SHEET # A6.1 FOR EXTERIOR WALL ASSEMBLIES. 2. REFER TO FINISH SCHEDULE FOR LOCATION AND EXTENT OF $\frac{5}{8}$ " CEMENT BOARD AND $\frac{1}{2}$ " WATER RESISTANT GYPSUM BOARD IN LIEU OF $\frac{5}{8}$ " GYPSUM BOARD.

NOTE: BUILDING IS EQUIPPED WITH AN EXISTING APPROVED AUTOMATIC SPRINKLER SYSTEM COMPLYING WITH N.F.P.A. 13 2010 EDITION



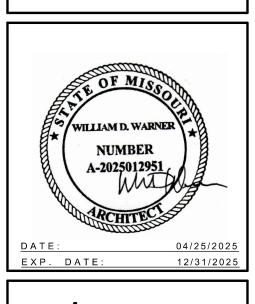


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IESE DRAWINGS MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENTLY THAN ORIGINALLY DRAWN. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR USE OF INCORRECT SCALE. DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND DTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

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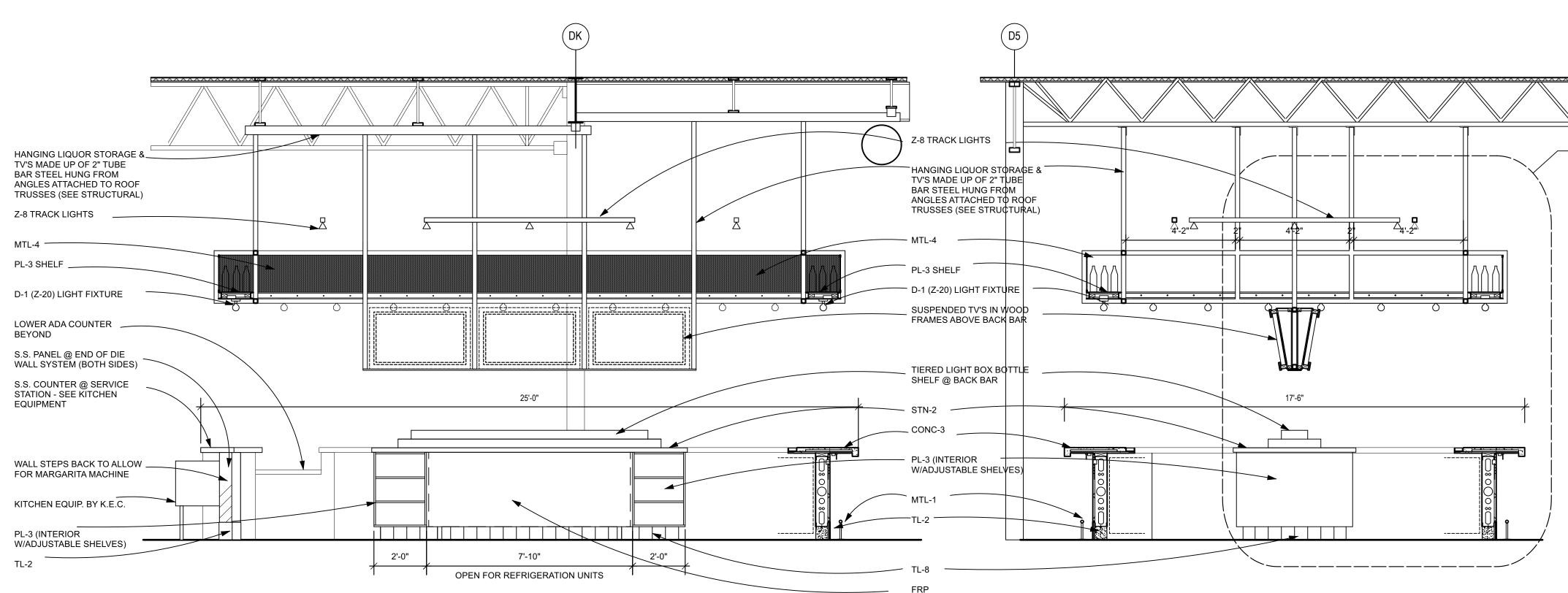
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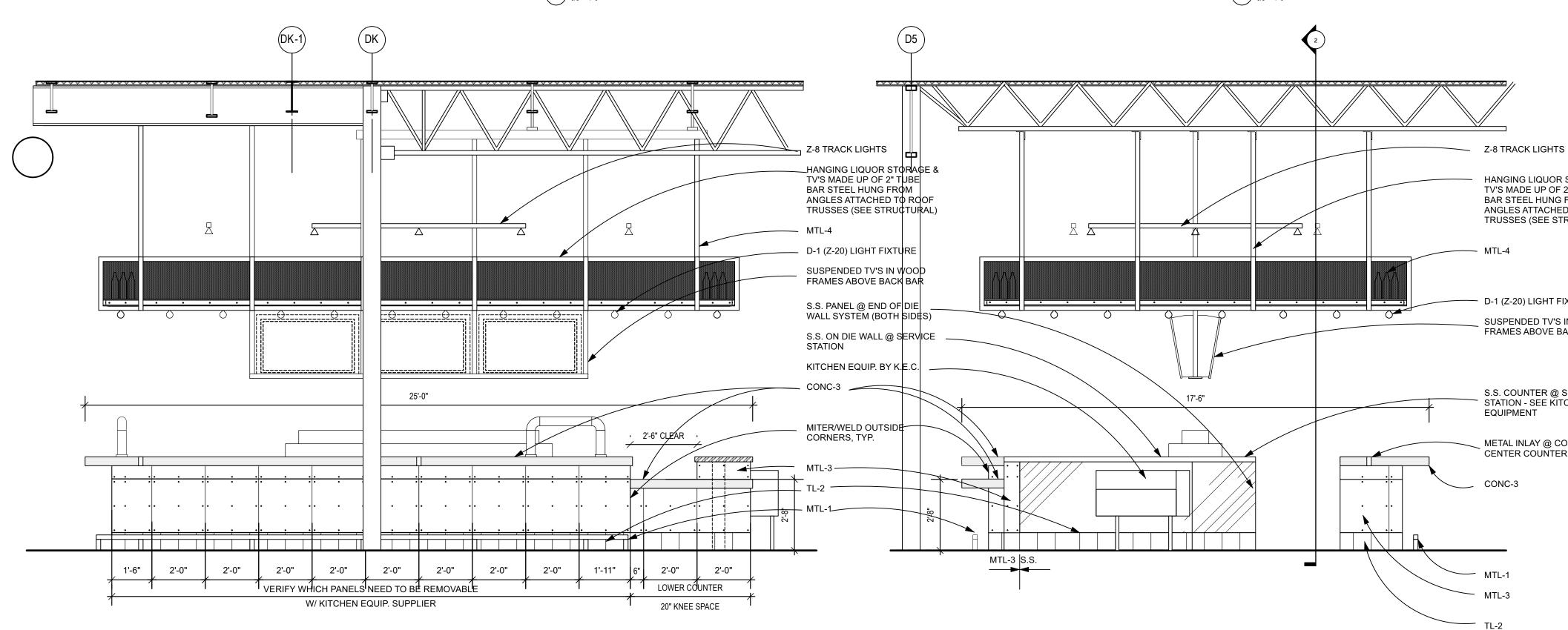
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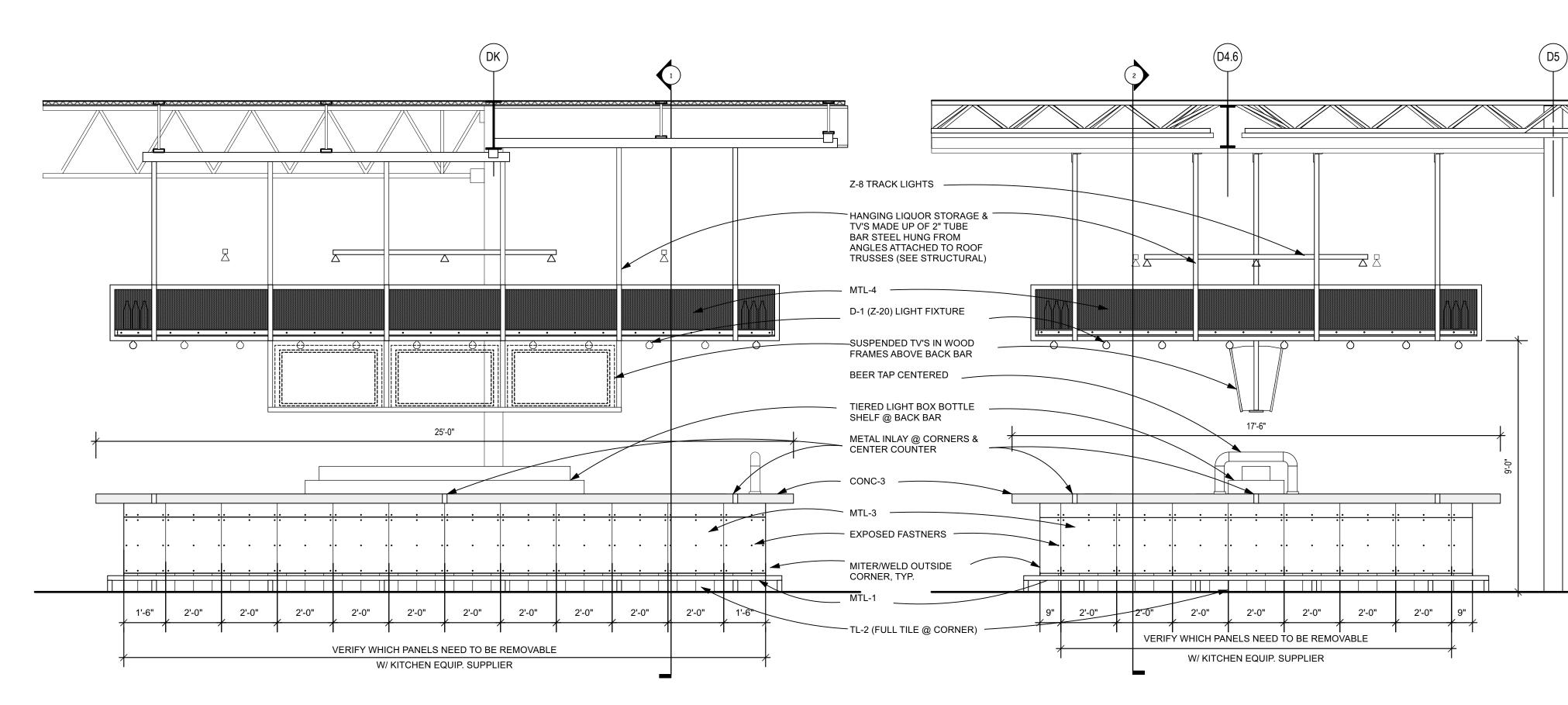
PARTITION TYPES & DETAILS

SHEET NO: JOB NO: ANCHO -SUMMIT FAIR DATE: |04.25.2025**||A11.1**|







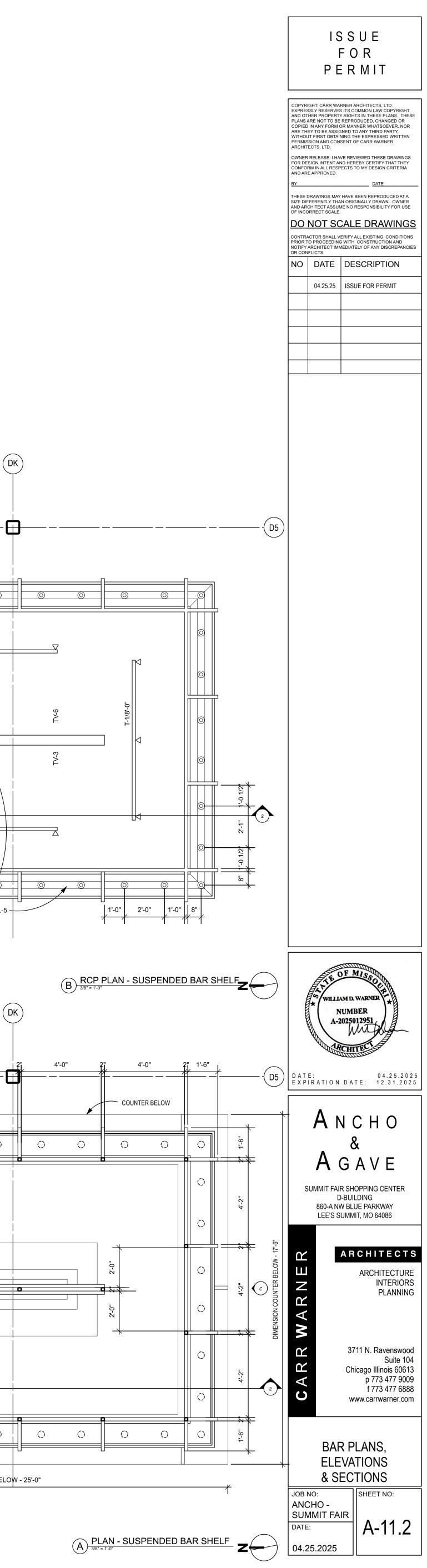


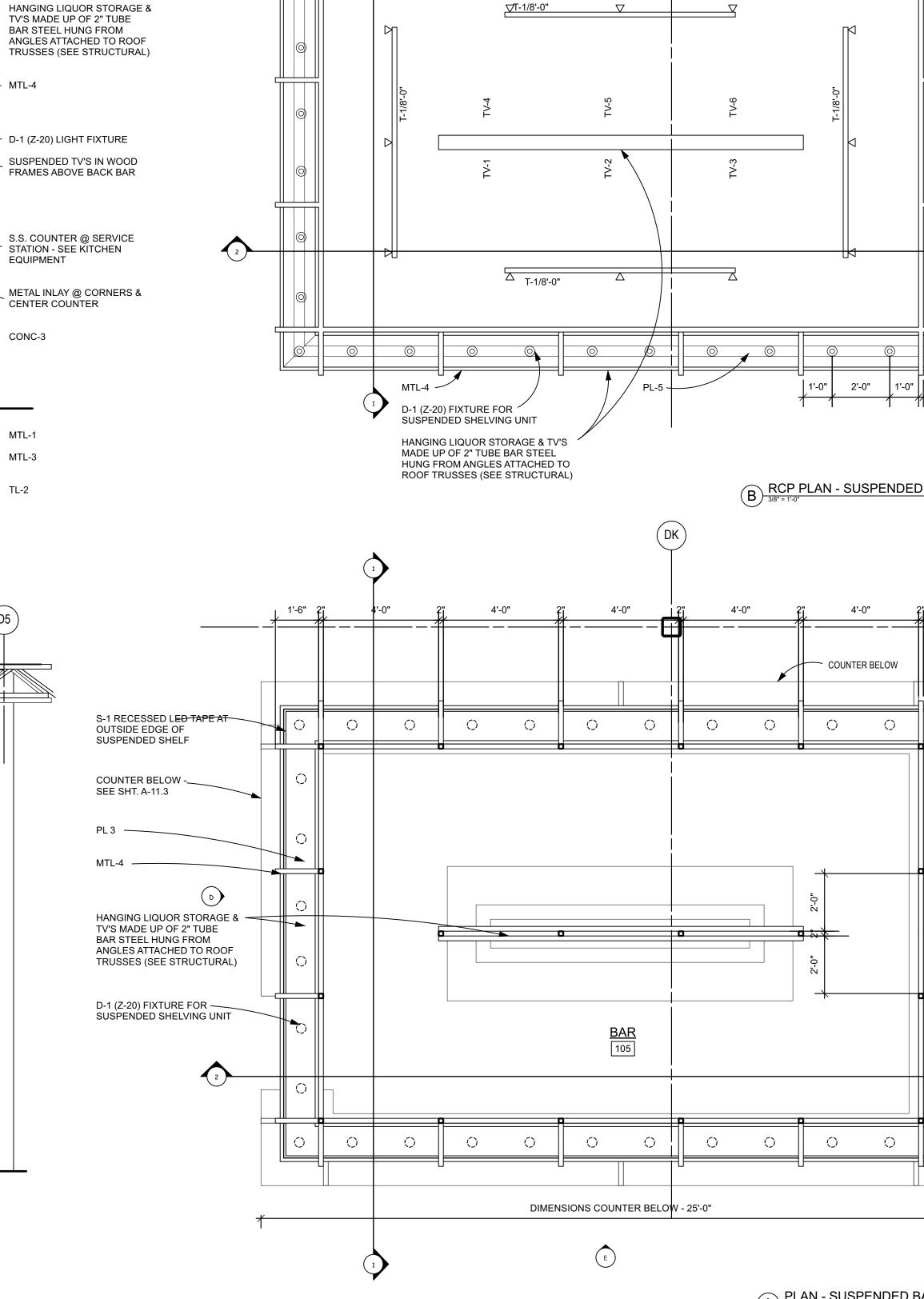
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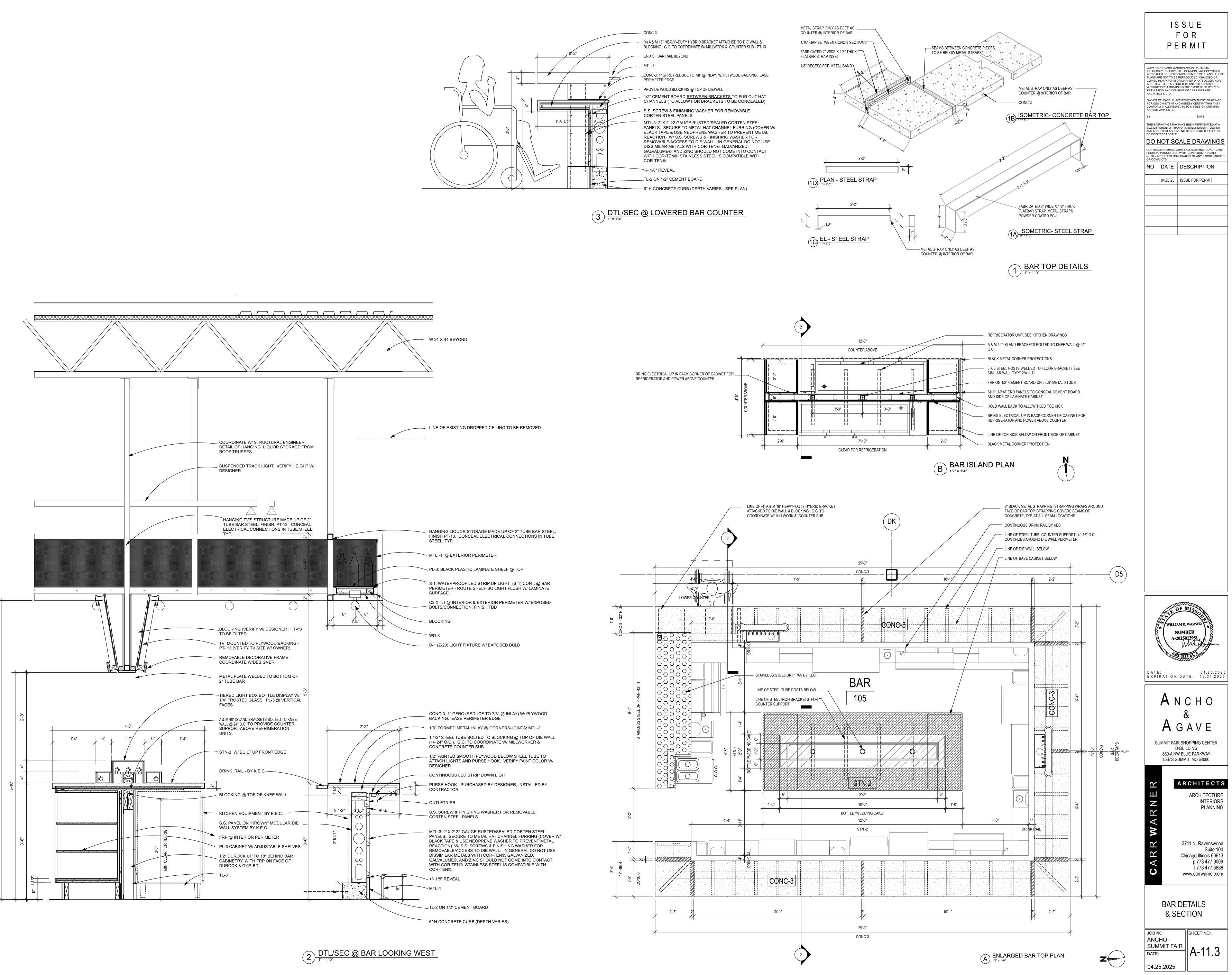


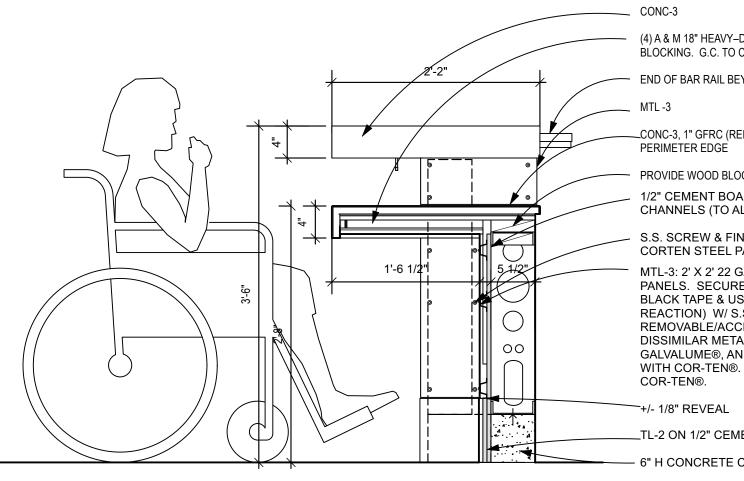
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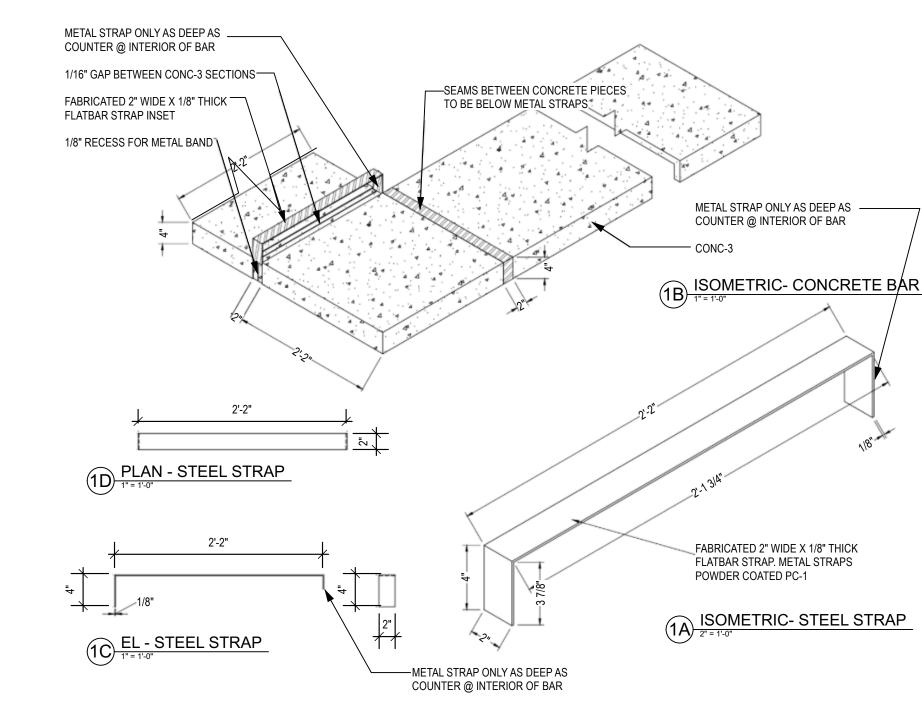
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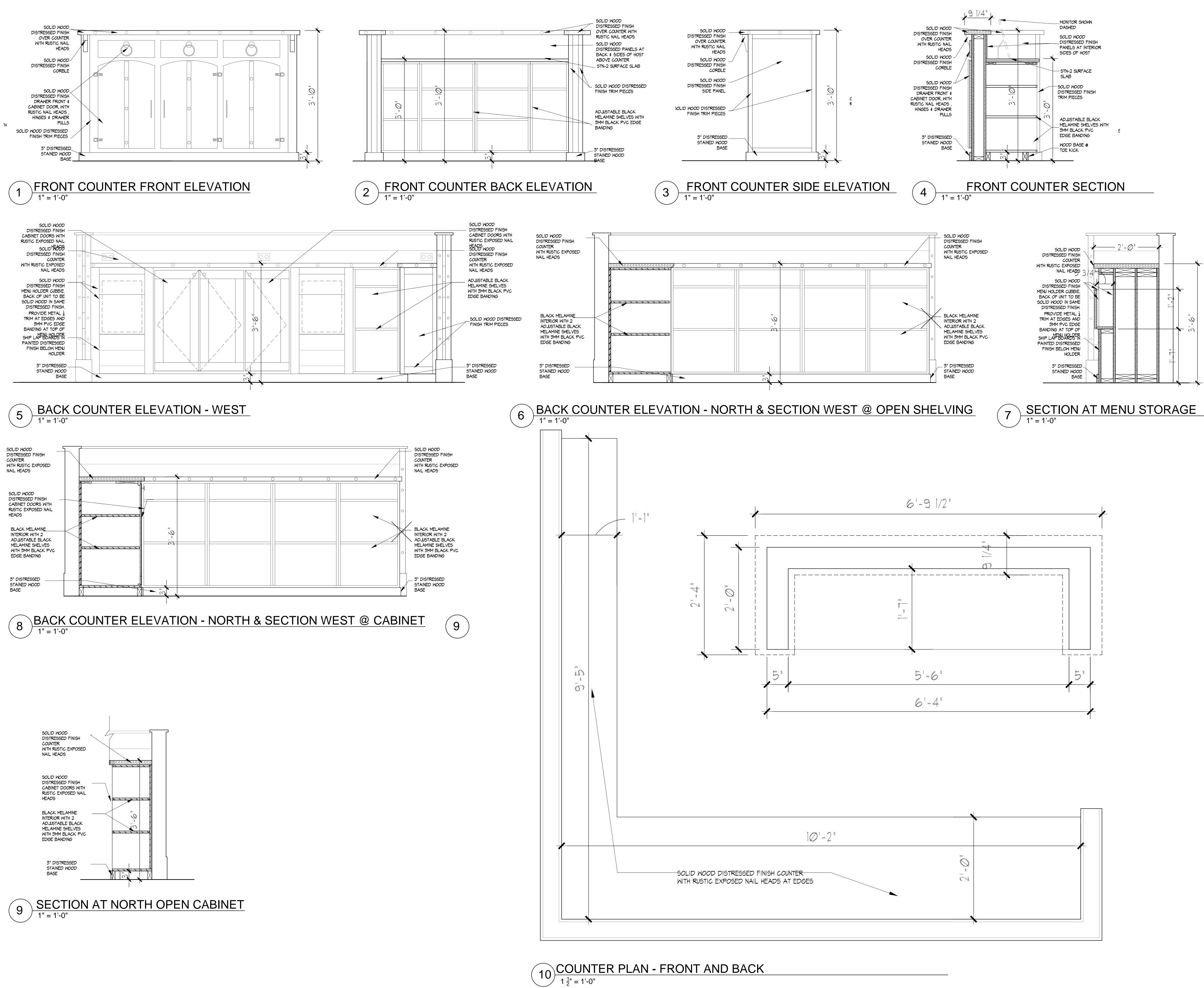
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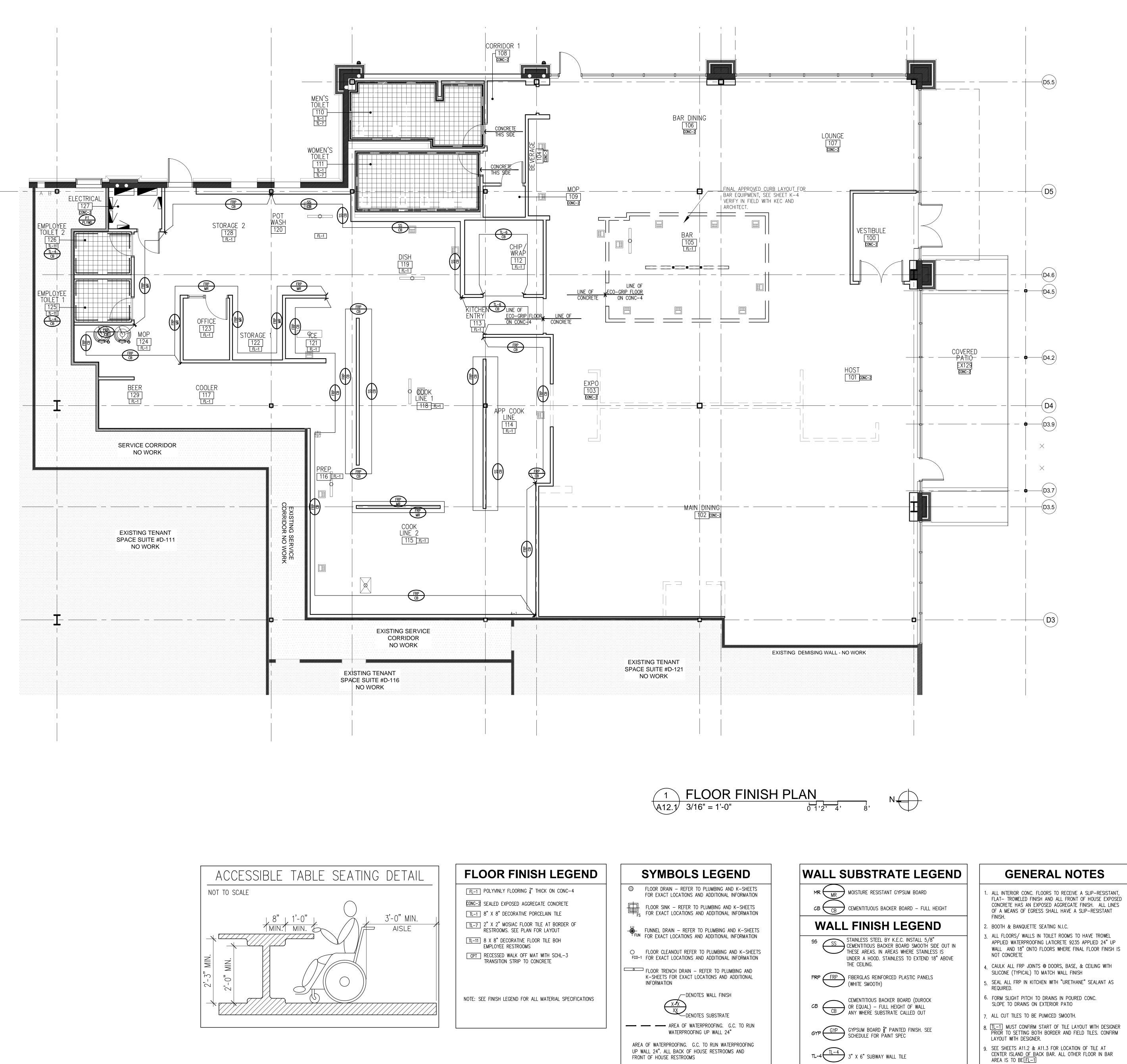


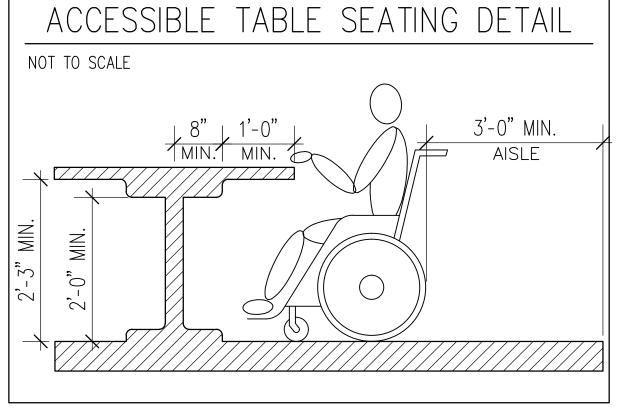


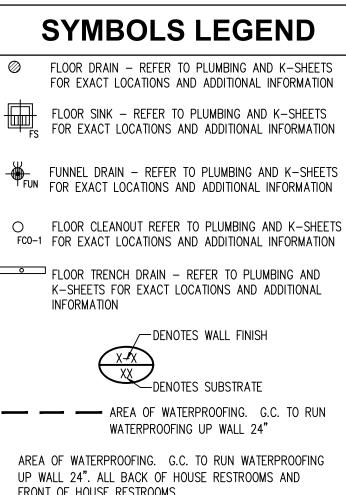




ISSUE FOR PERMIT)PYRIGHT: CARR WARNER ARCHITECTS, LTD. |PRESSLY RESERVES ITS COMMON LAW COPYRIGHT ND OTHER PROPERTY RIGHTS IN THESE PLANS. THES LANS ARE NOT TO BE REPRODUCED, CHANGED OR PIED IN ANY FORM OR MANNER WHATSOEVER, NOP ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY, WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN PERMISSION AND CONSENT OF CARR WARNER RCHITECTS, LTD. OWNER RELEASE: I HAVE REVIEWED THESE DRAWINGS FOR DESIGN INTENT AND HEREBY CERTIFY THAT THEY CONFORM IN ALL RESPECTS TO MY DESIGN CRITERIA AND ARE APPROVED. DATE THESE DRAWINGS MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENTLY THAN ORIGINALLY DRAWN. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR USE OF INCORRECT SCALE. DO NOT SCALE DRAWINGS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS RIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIE OR CONFLICTS. NO DATE DESCRIPTION Ø4.25.25 ISSUE FOR PERMIT VILLIAM D. WARNEL NUMBER A-202501295 04/25/202 DATE: EXP. DATE: 12/31/202 Амсно AGAVE SUMMIT FAIR SHOPPING CENTER D-BUILDING 860-A NW BLUE PARKWAY LEE'S SUMMIT, MO 64086 ARCHITECTS ARCHITECTURE INTERIORS PLANNING 3711 N. RAVENSWOO SUITE #10 CHICAGO, ILLINOIS 6061 p 773•477•9009 f 773•477•688 www.carrwarner.com HOST STAND PLAN, ELEVATION & DETAILS SHEET NO: JOB NO: ANCHO -SUMMIT FAIR DATE 04.25.202



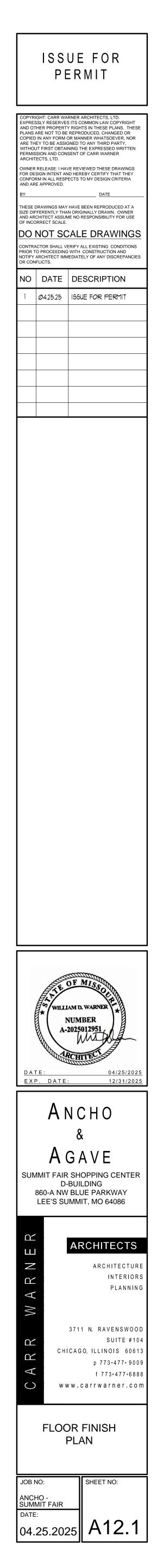




TL-6 (1-6) 4" X 16" SUBWAY WALL TILE

0. A SIGN SHALL BE POSTED NEAR THE MAIN EXIT INDICATING THE MAXIMUM NUMBER OF OCCUPANTS PERMITTED, COORDINATE W/ FIRE DEPARTMENT.

- AREA NEAR REAR EXIT SHALL NOT BE USED FOR ANY PURPOSE THAT WOULD INTERFERE W/ ITS USE AS A MEANS OF EGRESS.
- 12. ALL NON-FIXED SEATING AREAS SHALL BE HANDICAPPED ACCESSIBLE PER THE DETAIL BELOW. FIRE EXTINGUISHERS ARE TO BE PROVIDED THROUGHOUT THE BUILDING PER THE REQUIRE- MENTS OF NFPA #10. VERIFY
- PLACEMENT WITH THE LOCAL FIRE INSPECTOR. 14. SEE STRUCTURAL DWGS S2.0 FOR CONTROL JOINTS AND A1.6 FOR SLAB DEPRESSION PLAN
- 15. FL-1 IS A POLYVINYL RECYCLED FLOOR. INSTALLED AT FLOOR AND BASE WITH FLASHING AT TOP OF BASE BACK OF HOUSE AND AT BAR. TRANSITION PLATES AND TRIM RINGS PROVIDED BY ECO-GRIP. INSTALLED BY ECO-GRIPS INSTALLER. GC TO COORDINATE INSTALL OF OWNER PROVIDED FLOOR. NOTE: THAT THIS FLOOR GOES ON TOP OF CONC-4 A NORMAL REINFORCED 5" THICK CONCRETE NOT SEALED AND
- NO EXPOSED AGGREGATE BOH. 16. SEE A10.2 & A10.3 FOR EXACT LOCATIONS OF WALL FINISHES FOR ROOM NUMBERS 118, 119, 120 AND 121 AND EMPLOYEE RESTROOMS 131 AND 132
- 17. THRESHOLDS BETWEEN FL-1 CONCRETE AND TILE ARE PROVIDED BY ECO-GRIP INSTALLER
- 18. STAINLESS STEEL PANELS UNDER HOOD LOCATIONS ARE TO EXTEND 18" ABOVE THE FINISH CEILING.



GENE	RALNOTES	CONC	RETE
1.	REQUIREMENTS AND DESIGN DATA SHALL BE FOLLOWED ENTIRELY, REGARDLESS OF WHETHER THEY ARE GIVEN BY BOTH THE SPECIFICATIONS AND DRAWINGS OR BY EITHER ONE ONLY.	1.	CONCRETE WORK SHALL CONFORM TO THE CURRENTLY ADOP BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE; SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
2. 3.	UNLESS OTHERWISE NOTED, ALL DETAILS, SECTIONS AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE. DESIGN LOADS, ALLOWABLE STRESSES AND STRUCTURAL CAPACITIES ARE BASED ON THE INTERNATIONAL BUILDING CODE 2018.	2.	ULTIMATE COMPRESSIVE STRENGTH OF PORTLAND CEMENT CO STANDARD WEIGHT AT TWENTY-EIGHT DAYS SHALL BE 4000 PSI CONCRETE WORK. DESIGN AND SUBMITTAL FOR CONCRETE MI ACCORDANCE WITH ACI318, CHAPTER 5 AND ACI 301, SECTION 4
	EARTHQUAKE DESIGN DATA(PATIO ROOF ONLY):	0	SUBMITTED IN ADVANCE TO STRUCTURAL ENGINEER FOR APPR
	SEISMIC IMPORTANCE FACTOR, I = 1.0 RISK CATEGORY: II SS = .1	3.	AIR ENTRAINED CONCRETE SHALL BE USED FOR ALL CONCRETE WEATHER, EXCEPT AS NOTED IN THE DRAWINGS.
	S1 = .068 SITE CLASS: C SDS = .087	4.	CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUN SHALL NOT BE INCLUDED IN CONCRETE MIX.
	SD1 = .068 SEISMIC DESIGN CATEGORY: B BASIC SEISMIC-FORCE-RESISTING-SYSTEM: ORDINARY STEEL MOMENT FRAME	5.	CONCRETE CONTRACTOR SHALL NOT POUR CONCRETE IN ADVI CONDITIONS OR WHEN SUCH IS FORECAST FOR THE TIME PERIO THE POUR, UNLESS PROPER CURING AND PROTECTION IS PROV CONTINUOUSLY UNTIL CONCRETE DEVELOPS ITS DESIGN STREE
	DESIGN BASE SHEAR = .138K SEISMIC RESPONSE COEFFICIENT, CS = .029 RESPONSE MODIFICATION FACTOR, R = 3	6.	UNLESS OTHERWISE NOTED, PRINCIPAL REINFORCEMENT SHAL FOLLOWING CONCRETE PROTECTION:
	ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE WIND DESIGN DATA(PATIO ROOF ONLY): BASIC WIND SPEED = 107MPH WIND IMPORTANCE FACTOR, I = 1.0 RISK CATEGORY = II WIND EXPOSURE: B		 a) SURFACES NOT FORMED 3 INCHES b) FORMED SURFACES IN CONTACT WITH SOIL OR WATER, WEATHER 1 1/2 INCHES c) FORMED SURFACES NOT IN CONTACT WITH SOIL OR WA TO WEATHER 3/4 INCH
	INTERNAL PRESSURE COEFFICIENT: NA COMPONENTS AND CLADDING DESIGN WIND PRESSURE(UNFACTORED.	CONC	CRETE REINFORCEMENT
	+ INDICATES WIND ACTING TOWARD SURFACE INDICATES WIND ACTING AWAY FROM SURFACE): ROOFS: +24.4/-26.8PSF	1.	REINFORCING BARS SHALL CONFORM TO ASTM SPECIFICATION: GRADE 60.
	SNOW LOAD DATA: GROUND SNOW LOAD, Pg = 20PSF SNOW EXPOSURE FACTOR, Ce = 1.0	2.	DETAILING AND ACCESSORIES SHALL CONFORM TO THE ACI DE AND TO THE CRSI MANUAL OF STANDARD PRACTICE, CURRENT UNLESS NOTED OTHERWISE HERE, ON DRAWINGS, OR IN SPECI
	SNOW LOAD IMPORTANCE FACTOR, $I = 1.0$ THERMAL FACTOR, $Ct = 1.2$ FLAT-ROOF SNOW LOAD, Pf = 16.8PSF	3.	ALL LAPS, WHEN NOT DIMENSIONED ON DRAWINGS, SHALL BE 4 DIAMETERS AND NOT LESS THAN 24".
4.	CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO THE STRUCTURE CAPABLE OF RESISTING A FULL WIND LOAD UPON THE BUILDING UNTIL THE ENTIRE ROOF DECK IS CONNECTED TO THE ROOF STRUCTURE.	4.	REINFORCING BARS ARE TO BE PLACED ON CHAIRS OR OTHER A INSURE PROPER PLACEMENT. REINFORCING SHALL NOT BE PU IN PLACE.
SUBM	ITTALS	5.	REINFORCING SHOP DRAWINGS SHALL SHOW CLEARANCES TO
1.	SHOP DRAWINGS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC. SHALL BE REVIEWED BY STRUCTURAL ENGINEER ONLY FOR CONFORMANCE WITH DESIGN	STRU	CTURAL STEEL
2.	CONCEPT. NO WORK SHALL BE STARTED WITHOUT SUCH REVIEW. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE	1.	ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL CONFORM TO AISC SPECIFICATION FOR STRUCTURAL STEEL BL AISC360-16 USING LRFD.
۷.	REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO STRUCTURAL ENGINEER.	2.	MISCELLANOUS STRUCTURAL STEEL SHALL CONFORM TO ASTM A36. ROLLED WIDE FLANGE MEMBERS SHALL CONFORM TO AST
3.	CONTRACTORS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS AND BY SUPERVISION OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR THE FOLLOWING:	3.	SPECIFICATION A992. HSS MEMBERS SHALL CONFORM TO ASTA BOLTS FOR ALL FRAME CONNECTIONS SHALL CONFORM TO ASTA ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR. 36 UNLES
	 a) COMPLIANCE WITH CONTRACT DOCUMENTS. b) DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS. c) FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES (INCLUDING EXCAVATION, SHORING, SCAFFOLDING, BRACING, ERECTION, FORMWORK, 	4.	INDICATED. BOLTS SHALL BE 3/4" DIAMETER MINIMUM. FOR SHEAR CONNECTION NOT SPECIFICALLY DETAILED ON THE STEEL FABRICATOR IS ALLOWED TO SELECT THE CONNECTION TABLES 10-1 THROUGH 10-11 TO MEET THE REQUIRED SHEAR CA
	 ETC.) d) COORDINATION OF THE VARIOUS TRADES. e) SAFE CONDITIONS AT THE JOB SITE. 	5.	INDICATED ON THE DRAWINGS. IF NO SHEAR INDICATED, USE 15 WELD SHALL CONFORM TO AWS D1.1-2008, CLASS E70XX SERIES
4.	THE FOLLOWING SUBMITTALS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW:	6.	UNLESS OTHERWISE NOTED. WELDING SHALL BE DONE BY CER UNLESS OTHERWISE GIVEN OR REQUIRED BY CALCULATION, AL 3/16" FILLET TYPE.
(D	CONCRETE REINFORCING SHOP DRAWINGS CONCRETE MIX DESIGNS) STRUCTURAL STEEL SHOP DRAWINGS	7.	STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT GREY PRIME SURFACES.
(-	STEEL JOIST SHOP DRAWINGS TONGUE AND GROOVE DECKING PRODUCT DATA	8.	CUTS, HOLES (OPENINGS), ETC., REQUIRED IN STRUCTURAL STE THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP
	(S) INDICATES SUBMITTAL THAT SHALL BE SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS.		BURNING OF HOLES AND CUTS IN STRUCTURAL STEEL MEMBER SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FRO ARCHITECT.
	(D) INDICATES DEFERRED STRUCTURAL SUBMITTALS, WHICH HAVE NOT BEEN PERMITTED UNDER THE BASE BUILDING APPLICATION. AFTER DEFERRED STRUCTURAL SUBMITTALS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT, CONTRACTOR SHALL SUBMIT DEFERRED STRUCTURAL SUBMITTALS TO THE BUILDING OFFICIAL FOR APPROVAL. WORK ON DEFERRED	9.	THE DESIGN, MANUFACTURE, AND ERECTION OF STEEL JOISTS BRIDGING SHALL BE IN ACCORDANCE WITH THE "STANDARD SPI FOR OPEN WEB STEEL JOISTS" OF THE STEEL JOIST INSTITUTE, JOIST BRIDGING WHEN SHOWN ON THE DRAWINGS IS ONLY FOR OR COORDINATION WITH OTHER TRADES.
	STRUCTURAL SUBMITTAL ITEMS SHALL NOT START UNTIL AFTER THE DEFERRED STRUCTURAL SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.	10.	ALL EQUIPMENT HUNG FROM JOISTS SHALL BE SUPPORTED FRO AT PANEL POINTS OR REINFORCING SHALL BE PROVIDED. ANY THAN 100 POUNDS SHALL BE PROVIDED TO THE JOIST SUPPLIEF
SPEC	AL INSPECTIONS	11.	JOIST SEATS SHALL BE DESIGNED TO TRANSFER 1500(ASD) POL FORCE FROM THE DECK TO THE SUPPORT BELOW.
1.	SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH IBC CHAPTER 17.		
2.	THE INSPECTION AND TESTING AGENT SHALL BE HIRED BY THE OWNER AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF WORK. THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.		
3.	SPECIAL INSPECTIONS SHALL BE PROVIDED AS SHOWN IN THE TABLES ON THIS SHEET.		

- FOUNDATION
- FOUNDATIONS ARE DESIGNED FOR A NET ALLOWABLE BEARING PRESSURE OF 1. 1500 POUNDS PER SQUARE FOOT(PSF).
- EXCAVATIONS SHALL BE EXAMINED BY A QUALIFIED GEOTECHNICAL ENGINEER 2. TO VERIFY THE BEARING CAPACITY.
- DO NOT CAST FOOTINGS AGAINST EDGES OF EXCAVATION. ALL FOOTINGS ARE 3. TO BE FORMED WITH APPROVED FORM MATERIAL TO THE SIZES INDICATED ON THE PLANS.

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L FRAME CONNECTIONS SHALL CONFORM TO ASTM A325, TYPE 1. Image: Connection of the province of the	C31, ACI 318: 26.4, 1	1908.10
S SHALL CONFORM TO ASTM FISSE GR. 36 UNLESS OTHERWISE	26.12	
NNECTION NOT SPECIFICALLY DETAILED ON THE DRAWINGS, THE ATOR IS ALLOWED TO SELECT THE CONNECTION FROM THE AISC TROUGH 10-11 TO MEET THE REQUIRED SHEAR CAPACITY THE DRAWINGS. IF NO SHEAR INDICATED, USE 15KIPS LRFD. • Settings on welding equipment • Tarvei speed • NorFORM TO AWS D1.1-2008, CLASS ETOXX SERIES ELECTRODES, RWISE NOTED. WELDING SHALL BE DONE BY CERTIFIED WELDERS. • Settings on welding materials • O • O • Preheat applied • Interpass temperature maintained (min./max.) • O • O • Preheat applied • Interpass temperature maintained (min./max.) • Preheat applied • REFERENCEID SPECIAL INSPECTION REFERENCEID SPECIAL INSPECTION • Notion of the previous of the connections of the connecone of the connections of the connections of the connec		, 1908.7, 1908.8
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OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS.		
OLES AND CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD	Section	
Crack prohibition		
ANUFACTURE, AND ERECTION OF STEEL JOISTS AND JOIST U PE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS • Weld/base-metal fusion • Crater cross section • Crater cross section		
LL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS B STEEL JOISTS" OF THE STEEL JOIST INSTITUTE, CURRENT EDITION. O MULEN SUBJECT ON THE DEALWINGS IS ONLY FOR ESTIMATING		
• Porosity		
Arc strikes P P		
NTS OR REINFORCING SHALL BE PROVIDED. ANY LOADS GREATER		
NDS SHALL BE PROVIDED TO THE JOIST SOFPLIER. D Repair activities P		
HALL BE DESIGNED TO TRANSFER 1500(ASD) POUND ROLLOVER THE DECK TO THE SUPPORT BELOW. Document acceptance or rejection of welded joint or member P P		
Inspection Tasks Prior to Bolting Manufacturer's certifications available for fastener materials O P		
Manufacturer's certifications available for fastener materials O P Fasteners marked in accordance with ASTM requirements O O		
Proper fasteners selected for the joint detail (grade, type, bolt length if threads		
are to be excluded from shear plane)		
Proper bolting procedure selected for joint detail O O Connecting elements, including the appropriate faying surface condition and O O		
hole preparation, if specified, meet applicable requirements		
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used		
Adocumented for lastener assemblies and methods usedProper storage provided for bolts, nuts, washers and other fastenerOO		
Increation Taska During Balting		
Inspection Tasks During Bolting Fastener assemblies, of suitable condition, placed in all holes and washers (if		
required) are positioned as required		
Joint brought to the snug-tight condition prior to the pretensioning operation O O		
Fastener component not turned by the wrength prevented from rotating O O Fasteners are pretensioned in accordance with the PCSC Specification Image: Comparison of the prevented from rotating Image: Comparison of the prevented from rotating		
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edgesOO		

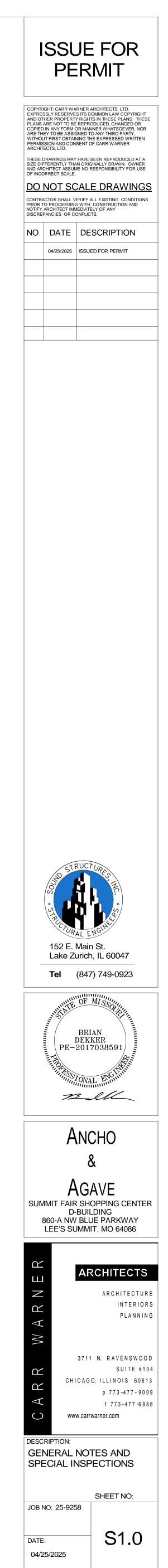
Inspection Tasks After Bolting

Document acceptance or rejection of bolted connections O - Observe these items on a random basis. Operations need not be delayed pending these inspections. P - Perform these tasks for each welded joint or steel element.

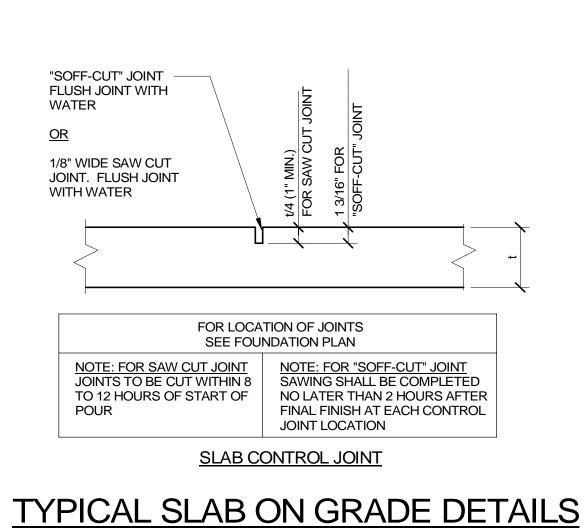
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2PSF	(ADHERED)	2PSF	(STANDING S
2PSF		-	
2PSF		4.5PSF	
SELF W	/T.	SELF V	VT.
3PSF		-	
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35PSF+	DRIFT	32.5PS	F+DRIFT
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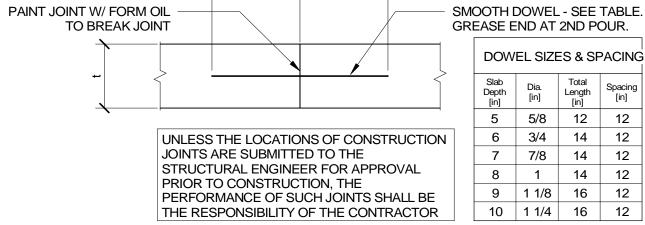


ATIO
-DRIFT
(STANDING SEAM)
/T.

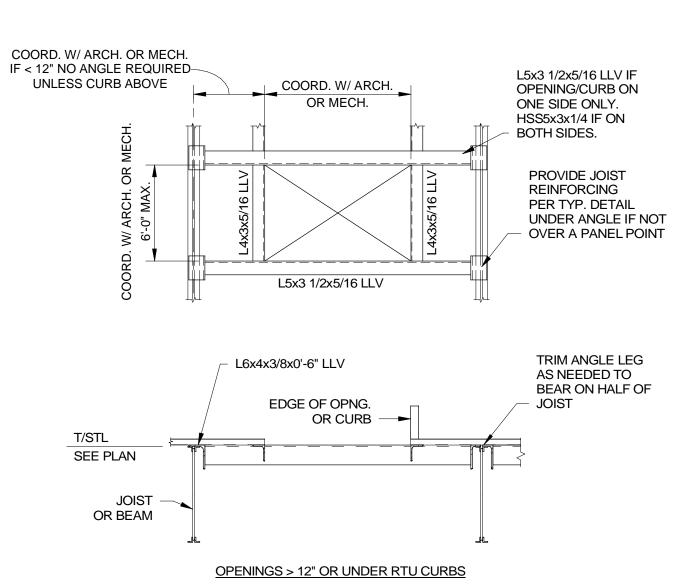


TYPICAL CONSTRUCTION JOINT DETAILS

SLABS ON GRADE



TYPICAL ROOF OPENING OR RTU CURB SUPPORT DETAILS



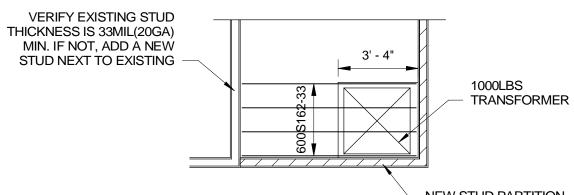
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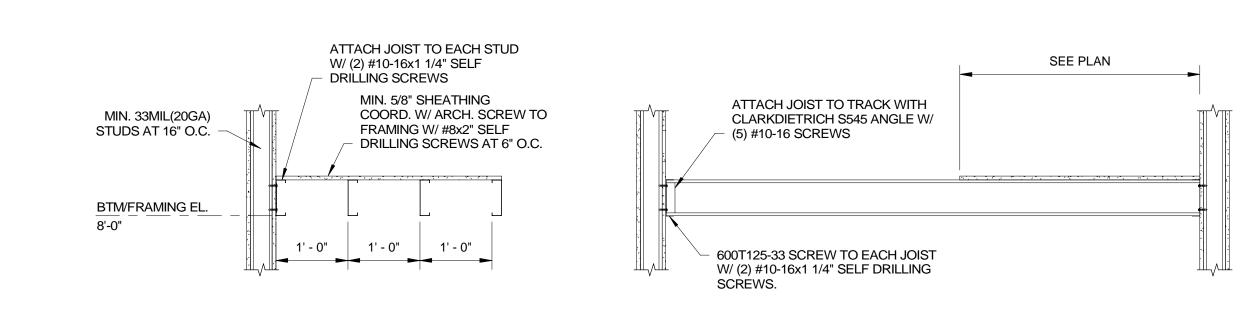
- NEW STUD PARTITION MIN. 33MIL(20GA.) @ 16 O.C. COORD. W/ ARCH. DRAWINGS

TRANSFORMER PLATFORM PLAN

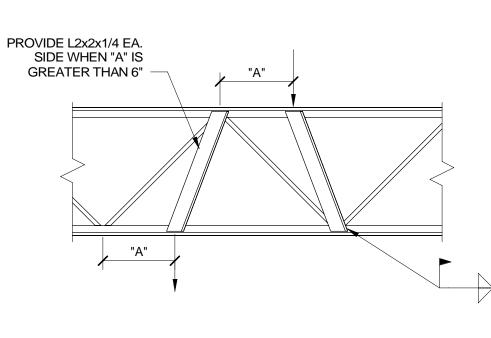
SCALE: 1/4" = 1'-0"

COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS



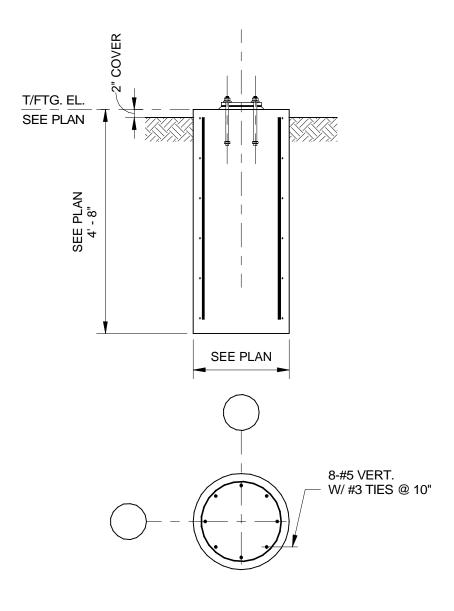




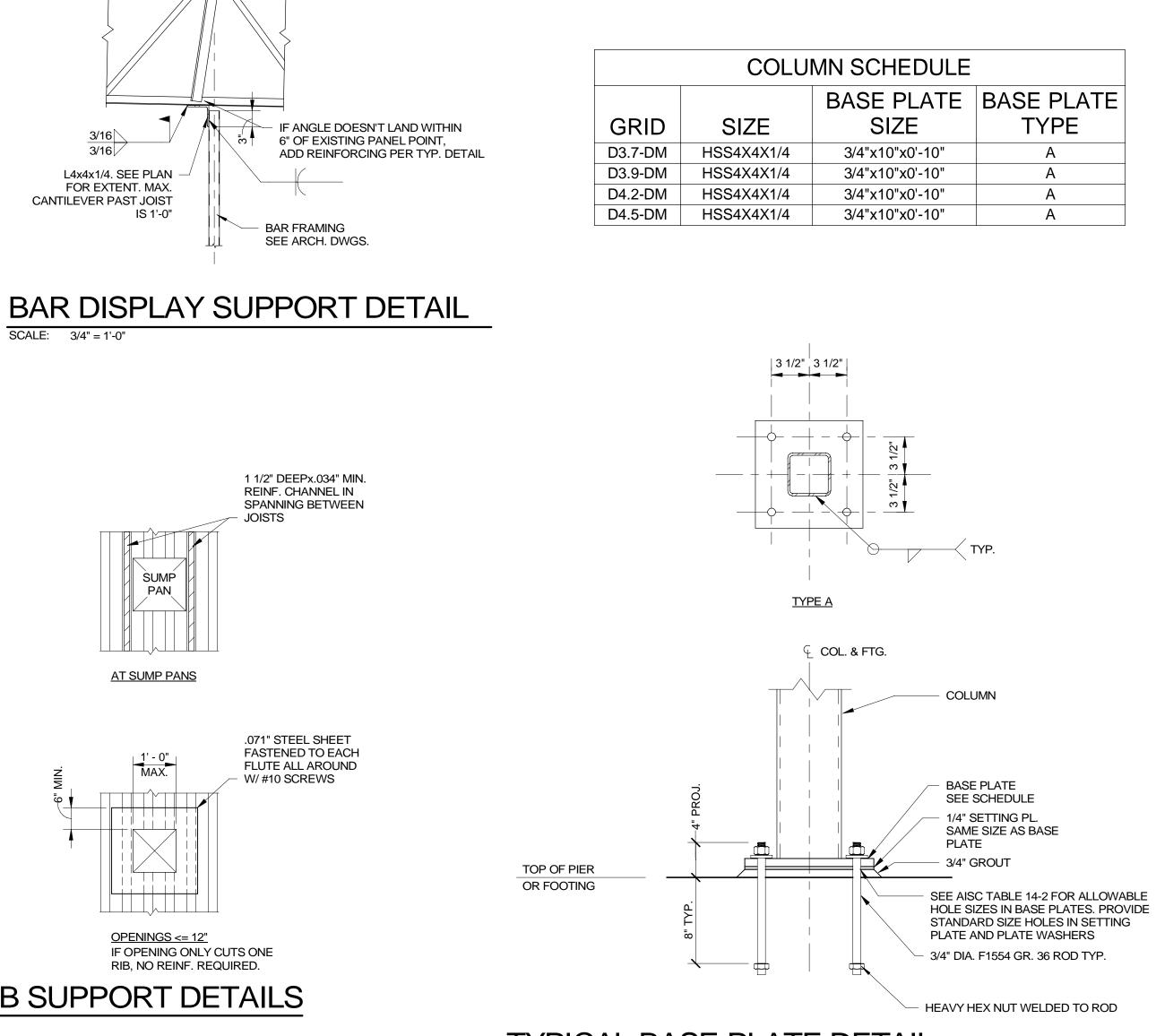


JOIST REINFORCING AT CONCENTRATED LOAD

TYP.



PATIO CANOPY FOOTING DETAIL SCALE: 1/2" = 1'-0"



TYPICAL BASE PLATE DETAIL SCALE: 1 1/2" = 1'-0"



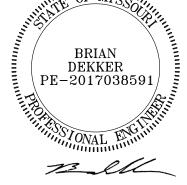
COPYRIGHT: CARR WARNER ARCHITECTS, LTD. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY, WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN PERMISSION AND CONSENT OF CARR WARNER ARCHITECTS, LTD.

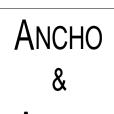
THESE DRAWINGS MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENTLY THAN ORIGINALLY DRAWN. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR USE OF INCORRECT SCALE.

DO NOT SCALE DRAWINGS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

NO	DATE	DESCRIPTION
	04/25/2025	ISSUED FOR PERMIT







AGAVE SUMMIT FAIR SHOPPING CENTER D-BUILDING 860-A NW BLUE PARKWAY LEE'S SUMMIT, MO 64086



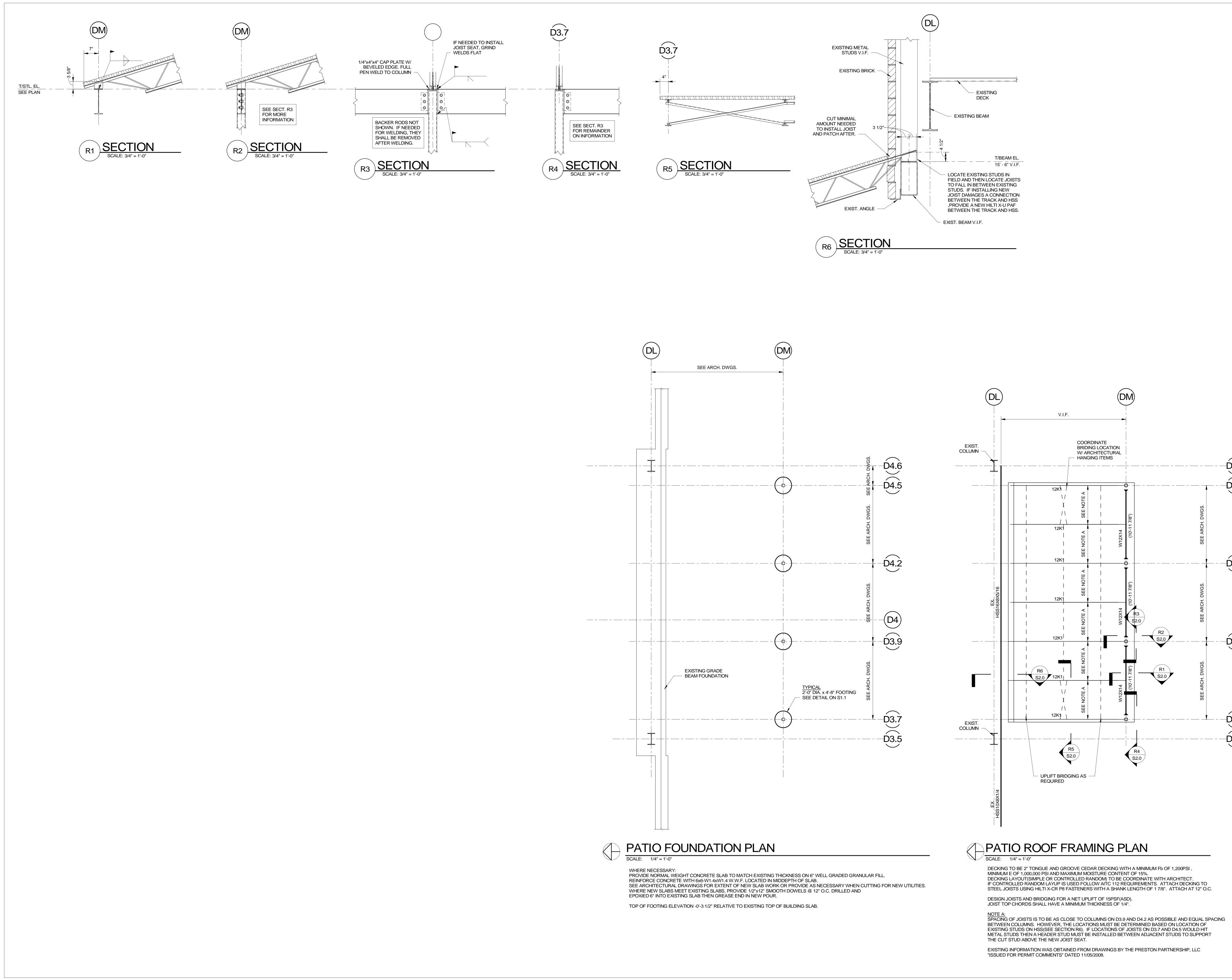
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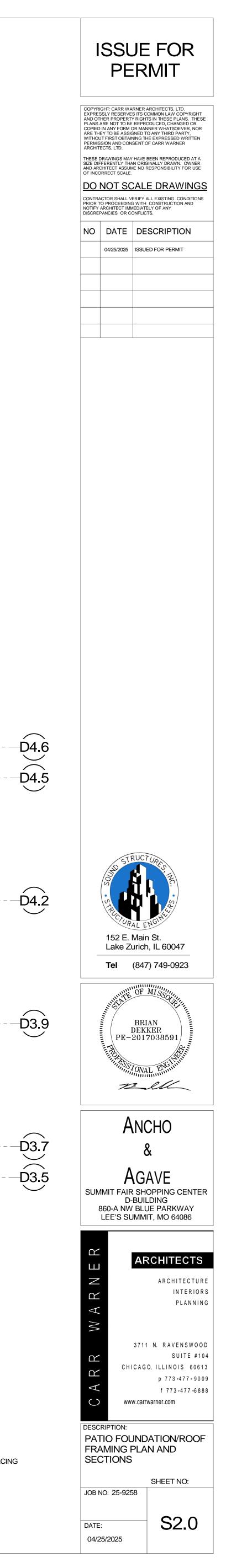
S1.1

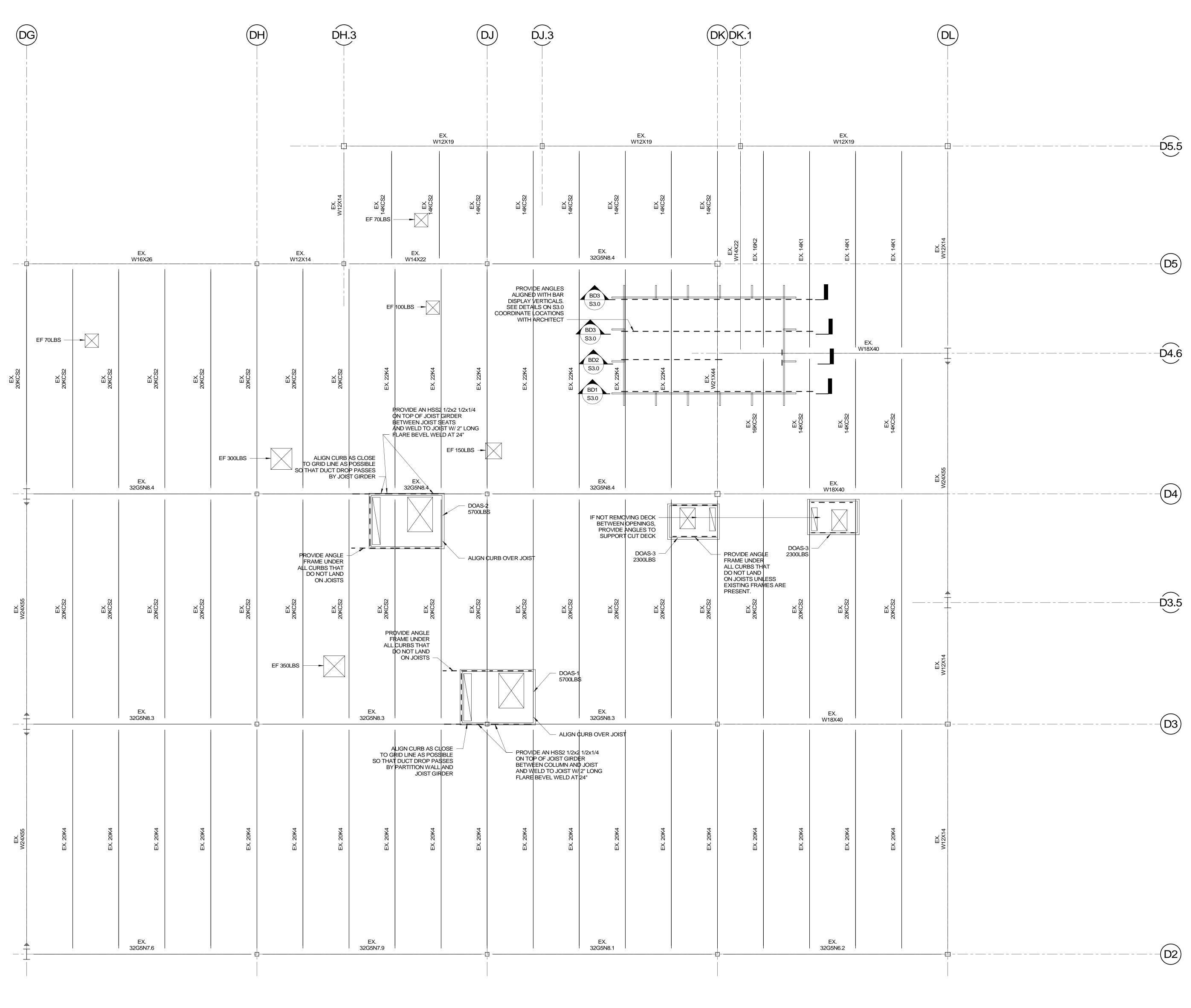
DESCRIPTION: TYPICAL DETAILS

JOB NO: 25-9258

DATE: 04/25/2025



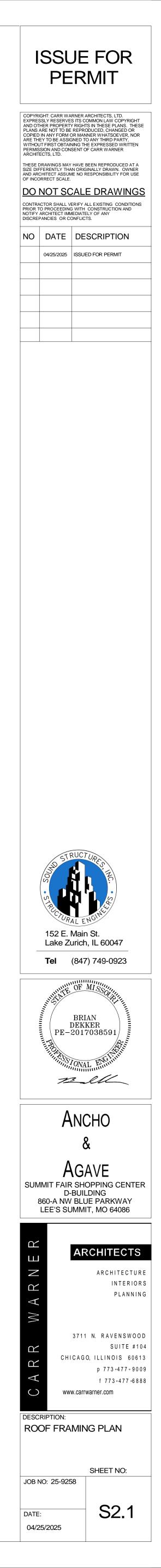


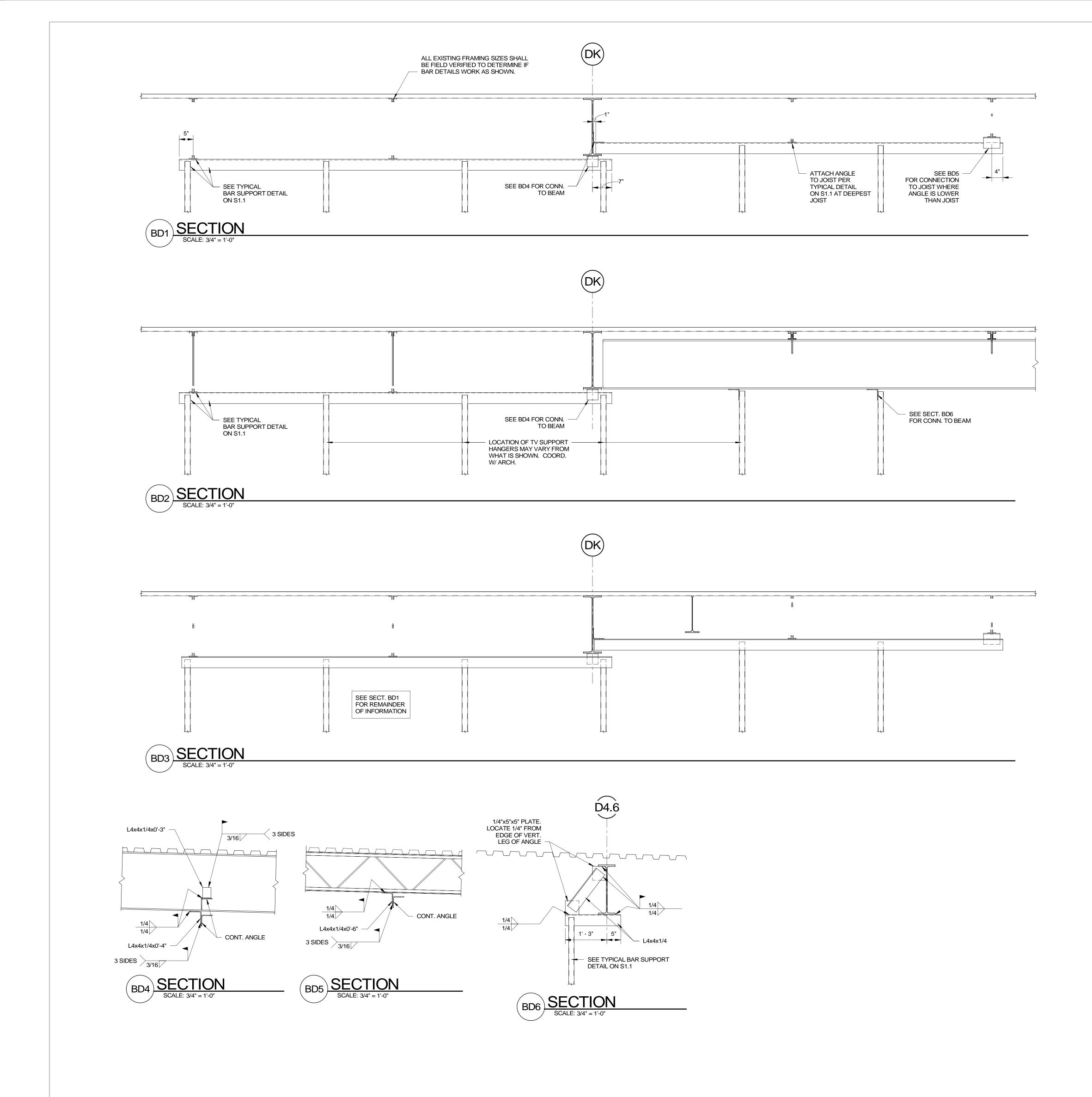


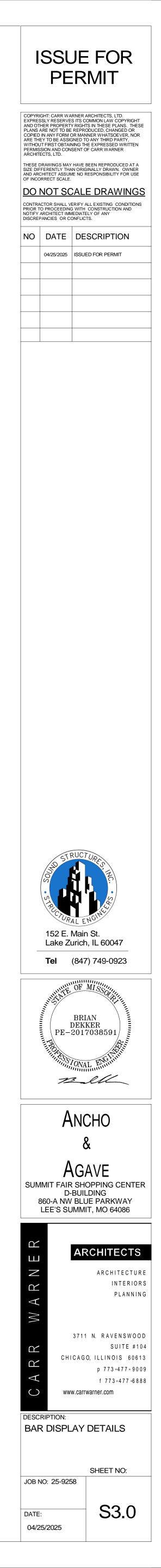


WHERE NECESSARY FOR NEW OPENINGS IN EXISTING ROOF DECK OR FOR EQUIPMENT WEIGHING MORE THAN 200LBS THAT IS ON NEW CURBS PROVIDE FRAMES PER THE DETAILS ON S1.1. IF INFILL OF EXISTING OPENINGS IS NECESSARY, PROVIDE METAL DECK TO MATCH EXISTING AND OVERLAP EXISTING BY 6" AND SCREW TO EACH FLUTE WITH #10 TEK SCREW.

EXISTING INFORMATION WAS OBTAINED FROM DRAWINGS BY THE PRESTON PARTNERSHIP, LLC "ISSUED FOR PERMIT COMMENTS" DATED 11/05/2008.







GENERAL NOTES: COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR TO LEAST INTERFERE WITH THE OWNER'S USE OF THE FACILITY. GENERAL CONTRACTOR MAY REQUIRE WORK INTERRUPTIONS DURING THE DAY AND MAY REQUIRE CERTAIN WORK TO BE PERFORMED ON PREMIUM TIME AT NIGHT OR ON WEEKENDS.

WHERE CORE DRILLING AND CUTTING OF FLOORS OR WALLS IS REQUIRED. CONTRACTOR SHALL USE XRAY EQUIPMENT, METAL DETECTORS OR OTHER APPROVED DEVICES TO DETERMINE AND AVOID INTERFERENCE WITH EXISTING CONCEALED FEEDERS AND PIPES. USE TEMPORARY CABLES AND ELECTRICAL APPARATUS AS REQUIRED.

- UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL ONLY. FOR EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES, ETC., REFER TO ARCHITECTURAL DRAWINGS OR QUESTION ARCHITECT.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED AND SMOKE RATED WALLS. 4.
- SEAL ALL CONDUIT PENETRATIONS THROUGH SUCH WALLS IN ACCORDANCE WITH SPECIFICATIONS. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR THE EXACT SIZE, NUMBER 5. AND LOCATION OF ALL MECHANICAL EQUIPMENT. PROVIDE ELECTRICAL CONNECTIONS AS
- REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. CIRCUITS ARE SIZED ASSUMING NO MORE THAN THREE CURRENT CARRYING CONDUCTORS 6. IN A SINGLE CONDUIT. FOR CONDUITS CONTAINING MORE THAN THREE, PROVIDE APPROPRIATE DETRACTING OF CONDUCTORS PER PRESENT APPLICABLE CODES.
- 7. ALL OUTLETS MOUNTED ABOVE COUNTER SHALL BE INSTALLED HORIZONTALLY AND NOT VERTICALLY. IN AREAS WHERE COUNTERS ARE PROVIDED, COORDINATE EXACT LOCATION OF OUTLETS AND WIRING WITH CASEWORK
- 8. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF AIR SUPPLY DIFFUSERS.
- CONTRACTOR SHALL VISIT THE SITE AND CAREFULLY EXAMINE THE BUILDING ELECTRICAL SYSTEMS SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK, BEFORE SUBMITTING PROPOSALS. SUBMISSION OF A PROPOSAL SHALL BE EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED.
- EXISTING SYSTEMS SUCH AS FIRE ALARM, COMMUNICATION SYSTEMS, SECURITY SYSTEM, 10. ETC. ARE TO BE EXTENDED AND INTERFACED WITH NEW WORK IF REQUIRED. ARRANGE FOR THE ON-SITE INSPECTION AND GUIDANCE OF THE MANUFACTURER'S REPRESENTATIVE PRIOR TO THE START OF THE WORK. PROVIDE ALL MATERIALS, DEVICES AND COMPONENTS AS INDICATED SO THAT THE EXISTING AND NEW SYSTEMS SHALL BE PROPERLY INTERFACED AND FUNCTION AS ONE SYSTEM.
- 11. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
- 12. BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS. SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
- 13. CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO INSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT. NO EXTRA CHARGES SHALL BE ACCEPTED BY OWNER, AFTER BIDDING FOR SUCH EQUIPMENT AND LABOR.
- EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF 14. THE LISTED EQUIPMENT SHALL BE FOLLOWED TO INSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATION MUST BE CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
- COORDINATE WORK WITH FIELD CONDITIONS AND OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF ALL APPLICABLE 16. CODES AND REGULATIONS.
- ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, 17. PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS.
- 18. ALL OF THE BOXES, CONDUITS, WIRES, CONTROL STATIONS, SLEEVES, INSERTS, FRAMES AND ANCHORS ARE NOT SHOWN ON THE DRAWINGS. ONLY MAJOR ITEMS ARE SHOWN. COORDINATE ALL WORK AS REQUIRED FOR PROPER DEMOLITION AND INSTALLATION.
- NO WIRING SHALL BE DONE PRIOR TO THE CONTRACTOR'S REVIEW OF THE PROJECT EQUIPMENT 19. SHOP DRAWINGS. COORDINATE FIELD CONDITIONS WITH THE DESIGN DOCUMENTS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION FOR FINAL RESOLUTION. WORK THAT HAS TO BE REPLACED DUE TO LACK OF PROPER SHOP DRAWINGS COORDINATION SHALL BE DONE AT CONTRACTOR'S EXPENSE.
- 20. NEW PANELS SHALL NOT BE INSTALLED BELOW WATER PIPES OR VENTILATION DUCTS. IF EXISTING PANELS ARE LOCATED BELOW PIPES OR DUCTS, PROVIDE DRIP PANS ABOVE
- EXISTING PANELS. FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH
- CODE REQUIREMENTS. (NOT ALL LOCAL DISCONNECT SWITCHES AREA SHOWN). 22. ALL OUTLETS BOXES SHALL BE PROVIDED WITH PROPER COVER PLATES.
- 23. SEAL ALL WALL AND FLOOR CONDUIT PENETRATIONS.

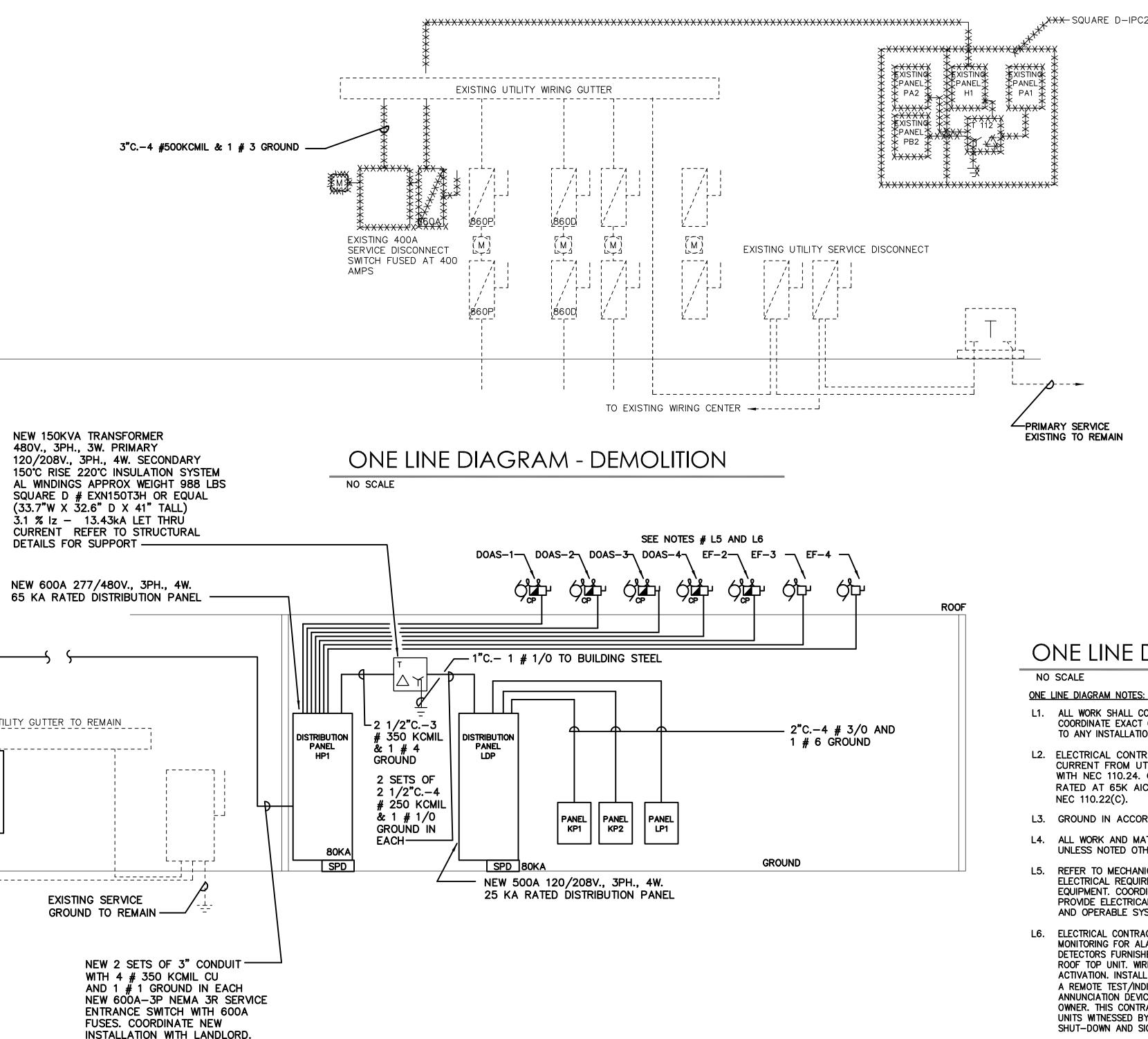
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ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE SHORT CIRCUIT COORDINATION 24. STUDY, ARC FLASH LABELING AND SUBMIT TO ENGINEER FOR APPROVAL. INCLUDE ALL COSTS DOCUMENTATION OF DISTRIBUTION SYSTEM AND PROVIDE A COMPLETE STUDY. ALL EQUIPMENT PROVIDED SHALL BE IN ACCORDANCE WITH THE STUDY AND MATCH RATINGS AND SETTINGS AS RECOMMENDED IN STUDY. INCLUDE SHORT CIRCUIT CURRENTS TO EACH THREE PHASE MOTOR. ALL AVAILABLE SHORT CIRCUIT SHALL BE LESS THAN 5,000A AT EACH UNIT. STUDY SHALL BE PREPARED BY A STATE OF ILLINOIS LICENSED ELECTRICAL ENGINEER AND BEAR THE SEAL. SUBMIT PRELIMINARY STUDY WITH EQUIPMENT SHOP DRAWINGS AND UPDATED FINAL STUDY WITH ACTUAL FEEDER LENGTHS INSTALLED AS PART OF CLOSE OUT PROJECT.

NEW UTILITY COMPANY APPROVED 277/480V., 3PH., 4W. CURRENT TRANSFORMER CABINET WITH ADJACENT METER FITTING COORIDNATE WITH UTILITY COMPANY	EXISTING UT
UTILITY TRANSFORMER	
PRIMARY SERVICE EXISTING TO REMAIN EXISTING UTILY SERVICE TO BUSSWAY DISCONNECT TO REMAIN	

FN:E0.1-ONE LINE_IL ANCHO SUMMIT



DRAWING SCHEDULE SYMBOL LIST ONE LINE DIAGRAM, AND NOTES PANEL SCHEDULE LIGHTING FIXTURE SCHEDULE KITCHEN EQUIPMENT SCHEDULE ROOF PLAN AND MECH EQUIPMENT SCHEDULES

E0.6 ELECTRICAL DETAILS E1.1 FLOOR PLAN - LIGHTING FLOOR PLAN - POWER & SPECIAL SYSTEMS E2.1 E3.0 ELECTRICAL SPECIFICATIONS E3.1 ELECTRICAL SPECIFICATIONS CONT.

SECTION C408.3 LIGHTING SYSTEMS FUNCTIONAL TESTING - THIS PROJECT WILL COMPLY WITH THIS SECTION CONTRACTOR SHALL HIRE AN INDENDENT COMMISSIONING AGENT TO PERFORM THE FOLLOWING TESTING.

NUMBER

E0.1

E0.2

E0.3

E0.4

E0.5

LIGHTING CONTROL DEVICES AND CONTROL SYSTEM SHALL BE TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

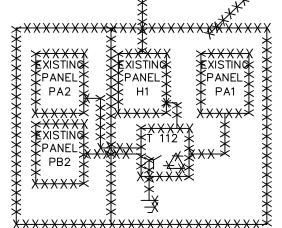
A COMMISSIONING AGENT SHALL CONFIRM THE OCCUPANT SENSORS, TIME SWITCHES, AND PROGRAMMABLE SCHEDULE CONTROLS ARE INSTALLED AND FUNCTION AS SPECIFIED ON CONSTRUCTION DRAWINGS ARE IN COMPLIANCE WITH IECC C405.

COMMISSIONING AGENT SHALL SUBMIT DOCUMENTS TO THE OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF CERTIFICATE OF OCCUPANCY CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF SECTION IECC C405.



------ DENOTES NEW WORK ----- DENOTES EXISTING TO REMAIN





ONE LINE DIAGRAM

- L1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE. COORDINATE EXACT CODE REQUIREMENTS WITH LOCAL INSPECTOR PRIOR TO ANY INSTALLATION.
- L2. ELECTRICAL CONTRACTOR SHALL CONFIRM AVAILABLE FAULT CURRENT FROM UTILITY AND PROVIDE LABELING IN ACCORDANCE WITH NEC 110.24. COORDINATE BRANCH PANELS TO BE SERIES RATED AT 65K AIC WITH PANEL 'HP1'. PROVIDE LABELING PER NEC 110.22(C).
- L3. GROUND IN ACCORDANCE WITH N.E.C. AND ALL LOCAL CODES.
- UNLESS NOTED OTHERWISE.
- L5. REFER TO MECHANICAL DRAWINGS FOR EXACT SIZE, LOCATION, AND ELECTRICAL REQUIREMENTS FOR ALL MOTORS AND MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- L6. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW FIRE ALARM MONITORING FOR ALARM AND TROUBLE TO 120V DUCT MOUNTED SMOKE DETECTORS FURNISHED AND INSTALLED WITH ROOF TOP UNIT FOR EACH ROOF TOP UNIT. WIRE DUCT DETECTOR TO SHUTDOWN UNIT UPON ACTIVATION. INSTALL IN ACCORDANCE WITH NFPA 72 AND 90A. PROVIDE A REMOTE TEST/INDICATING STATION (RTI) WITH AUDIBLE/VISUAL ANNUNCIATION DEVICE FOR EACH DETECTOR. MOUNT RTI AS DIRECTED BY OWNER. THIS CONTRACTOR SHALL CONDUCT A SMOKE TEST ON THE HVAC UNITS WITNESSED BY THE BUILDING INSPECTOR TO VERIFY FAN SHUT-DOWN AND SIGNAL ACTIVATION UPON SMOKE DETECTION.

L7. CONTACT UTILITY COMPANY AND COORDINATE NEW 600A 277/480V ELECTRICAL SERVICE.

SYMBOL	DESCRIPTION
Ю	SINGLE POLE SWITCH
₩З₩	THREE WAY SWITCH
os	MOTION SENSOR SWITCH - LUTRON LOS-SIR-HD OR APPRO
 	CEILING MOUNTED MOTION SENSOR SWITCH LINE VOLTAGE -
HBBI	LIGHTING CONTROL STATION OVERRIDE
	THERMAL OVERLOAD SWITCH - "P" DENOTES PILOT LIGHT
₩ T ₩	DUPLEX CONVENIENCE OUTLET (+ 18" ABOVE FINISHED FLO
	C DENOTES CONTROLLED OUTLET
	DUPLEX CONVENIENCE OUTLET WITH 2 INTEGRAL USB PORTS DOUBLE DUPLEX OUTLET (+ 18" ABOVE FINISHED FLOOR)
₩ I	C DENOTES CONTROLLED OUTLET
	DUPLEX CONVENIENCE OUTLET MOUNTED 6" ABOVE COUNTE
	FLUSH FLOOR MOUNTED OUTLET BOX WITH DUPLEX RECEPTA
НÐ	RECEPTACLE - RATING & VOLTAGE AS INDICATED ON DRAV
ю	RECESSED TV OUTLET FOR SIGNAGE PLUG, COORDINATE EXA
₽c	CEILING MOUNTED RECEPTACLE - C DENOTES CONTROLLED
	COMBINATION VOICE/DATA OUTLET
	DOUBLE - COMBINATION VOICE/DATA OUTLET
	TELEPHONE OUTLET (+ 18" ABOVE FINISHED FLOOR) "W" [
₩w	MOUNTED (+54" ABOVE FINISHED FLOOR) "P" DENOTES PUE PHONE (+54" ABOVE FINISHED FLOOR)
HQ, Q	JUNCTION BOX - WALL OR CEILING MOUNTED
· •, •	
₽₽	RECESSED JUNCTION BOX WITH 3/4" CONDUIT STUB INTO C AND DUPLEX RECEPTACLE FOR TV. COORDINATE MOUNTING ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
С,	NON - FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
 ₽	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT
	SWITCH - DEVICE AS NOTED
	MOTOR CONNECTION - H.P. AS NOTED ON DRAWINGS
	CONDUIT RUN CONCEALED IN CEILING OR WALLS
\nearrow	CONDUIT RUN IN FLOOR SLAB
	CONDUIT RUN EXPOSED
\checkmark	X DENOTES GROUND WIRE
30	JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
٩_	FINAL EQUIPMENT CONNECTION
\sim	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN
6	CIRCUIT BREAKER
	SWITCH & FUSE
	PANELBOARD
	DISTRIBUTION PANELBOARD
	CONTROL PACKAGE - ALL CONTROLLING DEVICES, STARTER
	CONTROL STATIONS AND ASSOCIATED CONTROL WIRING SHA FURNISHED, INSTALLED AND WIRED BY EQUIPMENT SUPPLIEF WIRING AND DISCONNECTING DEVICES ONLY SHALL BE UNDE
CP A.	DIVISION OF THE WORK UNLESS NOTED OTHERWISE.
A.F.F.	DENOTES ABOVE FINISHED FLOOR
B.P.S.	DENOTES BOLTED PRESSURE SWITCH
C.	DENOTES CONDUIT
GFCI GFI	DENOTES GROUND FAULT INTERRUPTER DENOTES GROUND FAULT INTERRUPTER
GRD.	DENOTES GROUND
M.L.O. N.I.C.	DENOTES MAIN LUGS ONLY DENOTES NOT IN CONTRACT
WP	DENOTES WEATHERPROOF
AV	DENOTES CEILING MOUNTED AUDIO/VISUAL
\bigtriangledown	DENOTES CEILING MOUNTED VOLUME
$\langle v \rangle$	DENOTES WALL MOUNTED VISUAL
S	FIRE ALARM PULL STATION MOUNTED AT + 48" A.F.F. TO
$\overline{\langle A \rangle}$	FIRE ALARM SPEAKER DEVICE MOUNTED AT + 96" A.F.F. T
	COMBINATION FIRE ALARM SPEAKER DEVICE/ADA APPROVED
	DEVICE MOUNTED AT + 80" A.F.F. TO CENTER OR 6" BELO WHICHEVER IS LOWER
	HEAT DETECTOR - "FT" DENOTES FIXED TEMPERATURE
SD	SMOKE DETECTOR
DD	DUCT MOUNTED SMOKE DETECTOR
VSS	SPRINKLER VALVE SUPERVISORY (TAMPER) SWITCH
WF	SPRINKLER WATERFLOW INDICATOR
SPD	80 KA RATED SURGE PROTECTION DEVICE - UL 1449 5TH

LEE'S SUMMIT MISSOURI FOLLOWS:

2018	INTERNATIONAL	BUILDING CODE
2018	INTERNATIONAL	FIRE CODE
2018	INTERNATIONAL	MECHANICAL CODE

2017 NATIONAL ELECTRICAL CODE

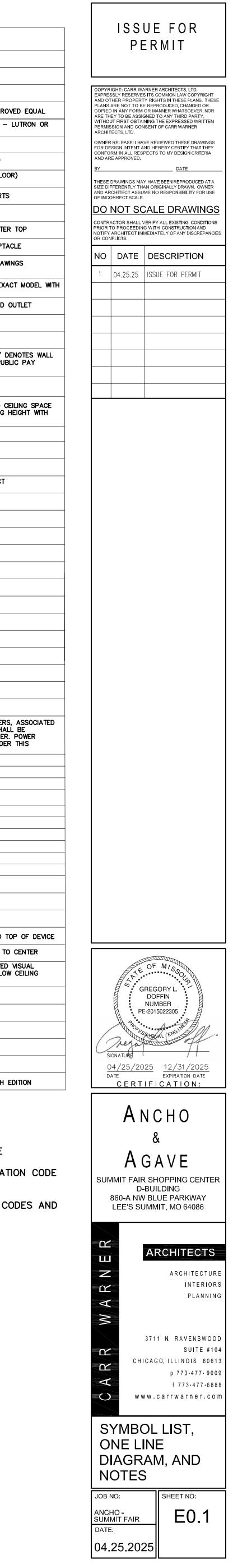
2018 INTERNATIONAL ENERGY CONSERVATION CODE AND LOCAL AMENDMENTS.

ALL WORK SHALL COMPLY WITH THESE CODES AND LOCAL AMENDMENTS

SYMBOL LIST

69	APPROVED EQUAL
HBB	LIGHTING CONTROL STATION OVERRIDE
њт	THERMAL OVERLOAD SWITCH - "P" DENOTES PILOT LIGHT
₽	DUPLEX CONVENIENCE OUTLET (+ 18" ABOVE FINISHED FLOOD C DENOTES CONTROLLED OUTLET
₩ USB	DUPLEX CONVENIENCE OUTLET WITH 2 INTEGRAL USB PORTS
₽	DOUBLE DUPLEX OUTLET (+ 18" ABOVE FINISHED FLOOR) C DENOTES CONTROLLED OUTLET
Þ	DUPLEX CONVENIENCE OUTLET MOUNTED 6" ABOVE COUNTER
@	FLUSH FLOOR MOUNTED OUTLET BOX WITH DUPLEX RECEPTAG
Ð	RECEPTACLE - RATING & VOLTAGE AS INDICATED ON DRAWN
Ю П	RECESSED TV OUTLET FOR SIGNAGE PLUG, COORDINATE EXAC OWNER PRIOR TO INSTALL
₽ c	CEILING MOUNTED RECEPTACLE - C DENOTES CONTROLLED O
	COMBINATION VOICE/DATA OUTLET
	DOUBLE - COMBINATION VOICE/DATA OUTLET
M w	TELEPHONE OUTLET (+ 18" ABOVE FINISHED FLOOR) "W" DE MOUNTED (+54" ABOVE FINISHED FLOOR) "P" DENOTES PUBL PHONE (+54" ABOVE FINISHED FLOOR)
Ю,∅	JUNCTION BOX - WALL OR CEILING MOUNTED
₽₽	RECESSED JUNCTION BOX WITH 3/4" CONDUIT STUB INTO CE AND DUPLEX RECEPTACLE FOR TV. COORDINATE MOUNTING H ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
D	NON - FUSED DISCONNECT SWITCH
R	FUSED DISCONNECT SWITCH
\boxtimes	MAGNETIC MOTOR STARTER
R	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH - DEVICE AS NOTED
Q	MOTOR CONNECTION - H.P. AS NOTED ON DRAWINGS
+	CONDUIT RUN CONCEALED IN CEILING OR WALLS
/+ <	CONDUIT RUN IN FLOOR SLAB
 +	CONDUIT RUN EXPOSED
\times	X DENOTES GROUND WIRE
у о	JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
L.	FINAL EQUIPMENT CONNECTION
~	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN
6	CIRCUIT BREAKER
	SWITCH & FUSE
	PANELBOARD
	DISTRIBUTION PANELBOARD
CP	CONTROL PACKAGE – ALL CONTROLLING DEVICES, STARTERS, CONTROL STATIONS AND ASSOCIATED CONTROL WIRING SHALL FURNISHED, INSTALLED AND WIRED BY EQUIPMENT SUPPLIER. WIRING AND DISCONNECTING DEVICES ONLY SHALL BE UNDER DIVISION OF THE WORK UNLESS NOTED OTHERWISE.
A. A.F.F.	DENOTES AMPERES DENOTES ABOVE FINISHED FLOOR
B.P.S.	DENOTES BOLTED PRESSURE SWITCH
C. GFCI	DENOTES CONDUIT DENOTES GROUND FAULT INTERRUPTER
GFI	DENOTES GROUND FAULT INTERRUPTER
GRD.	DENOTES GROUND
M.L.O. N.I.C.	DENOTES MAIN LUGS ONLY DENOTES NOT IN CONTRACT
WP	DENOTES WEATHERPROOF
AV	DENOTES CEILING MOUNTED AUDIO/VISUAL
$\overline{\mathbb{V}}$	DENOTES CEILING MOUNTED VOLUME
<u><\></u>	DENOTES WALL MOUNTED VISUAL
	FIRE ALARM PULL STATION MOUNTED AT + 48" A.F.F. TO TO FIRE ALARM SPEAKER DEVICE MOUNTED AT + 96" A.F.F. TO
	COMBINATION FIRE ALARM SPEAKER DEVICE/ADA APPROVED
(AV)	DEVICE MOUNTED AT + 80" A.F.F. TO CENTER OR 6" BELOW WHICHEVER IS LOWER
D	HEAT DETECTOR - "FT" DENOTES FIXED TEMPERATURE
SD	SMOKE DETECTOR
DD	DUCT MOUNTED SMOKE DETECTOR

L4. ALL WORK AND MATERIALS TO BE BY THE ELECTRICAL CONTRACTOR,



PANEL DATA SC	HEDI	IF	P	NF	NAME:	HP1			D	EMAND LO	ad Flush
LOCATION _ELECTRIC ROOM								KEY I.	LIGHTING	0.00 KVA	
SERVICE	W		CO	NNECTE	D LOAD	DEMAND LOAD)		RECEPTAC	NES	0.00 KVA
		P	hase a _	157. <i>′</i>	I 4 KVA	<u>121.07</u> к	VA		MOTORS		226.58 KVA
MAIN BREAKER Main lugs only <u>600A</u>			HASE B _	154.3			(VA		PANELS		0.00 KVA
NEUTRAL BUS <u>600A</u>			hase c _	159.4			(VA		TRANSFOR	RMERS	101.43 KVA
GROUND BUS <u>YES</u>			DTAL _	470.		705 07	.VA		KITCHENO		37.92 KVA
SHORT CIRCUIT RATING 65,0	000	RMS SYM		566.			MPS			ELECTRIC	
NOTES:			/ (() =			/		0 00 / 1			
* DENOTES LOCK-OUT CLIP:	** DENOT	ES GFI BR	EAKER: **	* DENC	DTES VIA TIMECL	OCK: **** DEN	IOTES \	/IA CONTA	CTOR		
CIRCUIT USE	CC	NNECTED	LOAD	CCT.	CIRCUIT	CIRCUIT	CCT.	CO	NNECTED I	LOAD	CIRCUIT USE
	A	В	С	NO.	BREAKER	BREAKER	NO.	A	В	С	
M: ROOF TOP UNIT DOAS-1	25,750		_	1	100A-3P	300A-3P	2	45,367		_	T: TRANSF-T1 (LDP)
M:		25,750		3			4		42,544		T:
М:			25,750	5			6		-	47,644	T:
M: ROOF TOP UNIT DOAS-2	25,750		_	7	100A-3P	15A-3P	8	361		_	M: (95.1) EXHAUST FAN EF-4
M:		25,750		9			10		361		M:
M:			25,750	11			12		-	361	M:
M: ROOF TOP UNIT DOAS-3	10,667		-	13	40A-3P	60A-3P	14	13,333		_	E: BOOSTER HEATER (48)
M:		10,667		15			16	_	13,333		E:
M:		_	10,667	17			18		-	13,333	E:
M: ROOF TOP UNIT DOAS-4	10,667		-	19	40A-3P	30A-3P	20	6,111		_	E: (49) WAREWASHER
M:		10,667		21			22		6,111		E:
M:		_	10,667	23			24		-	6,111	E:
X: INFRARED HEATER RH-1	6,000		_	25	30A-1P	30A-1P	26	4,800		_	X: EWUH-1
X: INFRARED HEATER RH-2		6,000		27	30A-1P	30A-1P	28		4,800		X: EWUH-2
X: INFRARED HEATER RH-3		_	6,000	29	30A-1P	30A-1P	30		-	4,800	X: ECUH-1
X: INFRARED HEATER RH-4	6,000		-	31	30A-1P	20A-1P	32	0		_	S: SPARE
X: INFRARED HEATER RH-5		6,000		33	30A-1P	30A-1P	34		0		S: SPARE
X: INFRARED HEATER RH-6		_	6,000	35	30A-1P	SPACE	36		-	0	X: SPACE
M: (64.1) EXHAUST FAN EF-2	1,278		-	37	15A-3P	30A-3P	38	0		_	X: 80 KA SPD
M:		1,278		39			40	_	0		X: DEVICE MOUNTED BELOW PANEL
M:		-	1,278	41			42		7	0	X:
M: (68.1) EXHAUST FAN EF-3	1,056		-	43	15A-3P	SPACE	44	0		_	X: SPACE
M:		1,056		45		SPACE	46	_	0		X: SPACE
M:			1,056	47		SPACE	48		1 	0	X: SPACE
SUB TOTAL	87,167	87,167	87,167					69,972	67,149	72,249	_ SUB TOTAL

PANEL DATA SCI	HEDU	IF	P	ANFI	NAME:	KP1			D	EMAND LO	DAD FLUSH
			• •						: LIGHTING		0.00 KVA
LOCATION <u>ELECTRIC ROOM</u> Service <u>120/208v.,3ph.,4</u> W			СС	NNECTE) LOAD	DEMAND LOAD			: RECEPTA		1.38 KVA
	•	D	HASE A	21.40		13.91 KV	/ ^		: MOTORS	JLES	0.00 KVA
MAIN BREAKER				19.75							<u>0.00</u> KVA
MAIN LUGS ONLY 225A			HASE B	20.82					: PANELS		
NEUTRAL BUS <u>225A</u>			HASE C _	61.98					: TRANSFO		(X, Y, Y)
GROUND BUS YES	0		OTAL _	172.0		I \ \			: KITCHEN		
SHORT CIRCUIT RATING <u>25,00</u> NOTES:	/0	RMS SYM	AMPS -	172.0	AMPS	AN	MPS	5 & X	: SPARE &	SPACE	<u>0.00</u> KVA
* DENOTES LOCK-OUT CLIP:	** DENO]) F / K E D · *	** DENO		001. **** DENI	NTES N				
DENOTES EOCK OUT CEIL.	-						_				
CIRCUIT USE		DNNECTED				CIRCUIT	CCT.		DNNECTED		CIRCUIT USE
	A	B	C	NO.	BREAKER	BREAKER	NO.	A	B	С	
BEER COOLER LITES/COOLER (1/1A)	960	0.400	-	1	20A-1P	20A-1P **	2	960		_	E: CARBONATOR (6) LEFT
COFFEE MAKER (118)	-	2,496	0.400	3	30A-2P**	20A-1P **	4	_	960		E: CARBONATOR (6) CENTER
		_	2,496	5		20A-1P **	6		_	960	E: CARBONATOR (6) RIGHT
WALK IN COOLER REM COND (9B)	2,049		_	7	30A-2P	20A-1P **	8	240		_	E: GRIDDLE(20)(75)
	-	2,049		9		20A-2P	10	_	1,352		E: BEER SYSTEM (12)
AIR CURTAIN (10) BACK DOOR		_	780	11	20A-1P		12		_	1,352	E:
CO2 DETECTOR (7A)	1,800		_	13	20A-1P	20A-1P **	14	180		_	E: UTILITY OUTLET (18) LEFT
COOLER EVAP LIGHTS (9/9A)		840		15	20A-1P	20A-1P **	16	_	180		E: UTILITY OUTLET (18) CENTER
UTILITY (86) POT WASH NE		_	180	17	20A-1P **	20A-1P **	18			180	E: UTILITY OUTLET (18) RIGHT
UTILITY (86) POT WASH SE	180		_	19	20A-1P **	20A-1P **	20	180		_	E: UTILITY (21) ICE W WALL N
UTILITY OUTLET (91)		180		21	20A-1P **	20A-1P **	22		180		E: UTILITY (21) ICE W WALL S
TEA BREWER (119)			2,496	23	30A-2P**	20A-1P **	24			180	E: UTILITY (21) ICE POT WASH S
	2,496			25		20A-1P **	26	1,800			E: NITRO(15)
PULL DOWN CORD (55) BACK		180		27	20A-1P **	20A-1P **	28		180		E: UTILITY OUTLET (33) W WALL
PULL DOWN CORD (55) FRONT			180	29	20A-1P **	20A-1P **	30			180	E: UTILITY OUTLET (33) W WALL
HEAT LAMPS (87) TOP	1,560			31	30A-2P	20A-1P **	32	180			E: UTILITY OUTLET (33A) W WAL
		1,560		33		20A-1P **	34		180		E: UTILITY OUTLET (33A) W WAL
HEAT LAMPS (87) CENTER			1,560	35	30A-2P	20A-1P	36			900	R: ROOF RECEPT
· · ·	1,560			37		20A-2P	38	1,352			E: BEER SYSTEM COOLER COMP
HEAT LAMPS (87) BOTTOM		1,560		39	30A-2P		40		1,352		E:
			1,560	41		20A-1P	42	1		480	R: PRINTER (80B)
UTILITY OUTLETS (89) LEFT	180			43	20A-1P	20A-1P **	44	180		I	E: BAR UTILITY OUTLET LEFT (16
UTILITY OUTLETS (89) RIGHT		180		45	20A-1P	20A-1P **	46		180		E: BAR UTILITY OUTLET RIGHT (1
ICE MAKER (94)	-		2,090	47	30A-2P	20A-1P **	48	-		0	S: SPARE
	2,090		2,000	49	0011 21	20A-1P **	50	0		•	S: SPARE
CHIP WARMER (113) RIGHT	,	1,044		51	20A-1P **	20A-1P **	52	+	960		E: BAR POS OUTER BAR (130)
CHIP WARMER (113) LEFT	-	.,	1,044	53	20A-1P **	20A 11 20A-1P **	54	1		876	E: BAR WORK TOP REF (137)
SPARE	0			55	20A-1P **	20A-1P **	56	180		0,0	E: BAR UTILITY OUTLET FRONT (
UTILITY OUTLET (111)		180		57	20A-1P **	20A-1P **	58		936		E: BAR UC REF (138)/ FREZ (14
COFFEE GRINDER (118A)	-		1,000		20A-1P **	20A-1P **	60	-	330	1,008	E: BACKBAR COOLERS (157)
× ,	696		1,000	59	20A-1P ** 20A-1P **			1 0 2 0		1,000	· · ·
REF PREP STATION (79)	090	190	7	61	20A-1P ** 20A-1P **	20A-1P **	62	1,920	1.044		E: BAR GLASSWASHER (152) E: BAR CHIP WARMER (149)
UTILITY OUTLETS (116) LEFT	-	180	100	63		20A-1P **	64	-	1,044	100	
UTILITY OUTLETS (116) RIGHT	400		180	65	20A-1P **	20A-1P **	66	100	_	180	E: WAITER UTILITY BACK (174)
SODA/ICE DISP (120)	480	0.10	_	67	20A-1P **	20A-1P **	68	180	4.500	_	E: WAITER UTILITY FRONT RIGHT
REFRIGERATOR (115)	-	240		69	20A-1P **	20A-1P **	70	_	1,560	-	E: BAR FROZEN DRINK MACH(15
SPARE		_	0	71	20A-1P	20A-1P **	72		_	960	E: UCR WAITER STATIONS (176)
SPARE	0		_	73	20A-1P	20A-1P	74	0		_	S: SPARE
SPARE	4	0		75	20A-1P	20A-1P	76		0		S: SPARE
SPARE		_	0	77	20A-1P	20A-1P	78		_	0	S: SPARE
SPARE	0		_	79	20A-1P	20A-1P	80	0		_	S: SPARE
SPARE		0		81	20A-1P	20A-1P	82		0		S: SPARE
SPARE			0	83	20A-1P	20A-1P	84	1		0	S: SPARE

PANEL DATA SCI	-	LE	P	ANEL	NAME:	LDP				EMAND LO	
LOCATION MAIN ELECTRIC RO			C	ONNECTED		DEMAND LOAD					
SERVICE <u>120/208V.,3PH.,4W</u> Main breaker <u>500A—3P</u>		F	PHASE A		KVA	<u> </u>	/Α		RECEPTA MOTORS	ULES	<u>0.00 </u>
MAIN BREAKER <u>JUDA-JP</u> MAIN LUGS ONLY			PHASE B	42.54		31.87 K			PANELS		101.43 KVA
NEUTRAL BUS <u>600A</u>			PHASE C	47.64	— KVA	<u> </u>			TRANSFO	RMERS	0.00 KVA
GROUND BUS <u>YES</u> Short circuit rating <u>25,00</u>	0		OTAL	135.56	KVA AMPS	<u> </u>			EXTRA SPARE &		0.00 KVA 0.00 KVA
NOTES:	.0	RMS SYM	AMPS		AMP5	<u> </u>	VIP S	5 & X:	SPARE &	(SPACE	<u>0.00</u> KVA
* DENOTES LOCK-OUT CLIP:	** DENO	tes gfi bf	REAKER: *	*** DENOT	ES VIA TIMECL	OCK: **** DEN	DTES V	IA CONTA	CTOR		
CIRCUIT USE	CC	ONNECTED	LOAD	CCT.	CIRCUIT	CIRCUIT	CCT.	CO	NNECTED	LOAD	CIRCUIT USE
	A	В	С	NO.	BREAKER	BREAKER	NO.	A	В	С	
PANEL LP1	6,994	8,027		1	200A-3P	30A-3P	2	0	0		E: 80 KVA SURGE PROTECTIVE E: DEVICE MOUNTED BELOW PANE
	-	0,027	9,131	5			6	_	0	0	E:
PANEL KP1	21,403			7	200A-3P	SPACE	8	0			X: SPACE
	-	19,753	00.000	9		SPACE	10	-	0	-	X: SPACE
PANEL KP2	16,970	7	20,822	11	200A-3P	SPACE SPACE	12	0		0	X: SPACE X: SPACE
	10,070	14,764		15	20071 01	SPACE	16	Ū	0		X: SPACE
			17,691	17		SPACE	18			0	X: SPACE
SUB TOTAL	45,367	42,544	47,644					0	0	0	SUB TOTAL
PANEL DATA SCI	HEDU	LE	P	ANEL	NAME:	KP2			C	EMAND LO	OAD FLUSH
LOCATION _ELECTRIC ROOM				ONNECTED		DEMAND LOAD			LIGHTING		<u>2.45</u> KVA
SERVICE <u>120/208V.,3PH.,4W</u>							/ •		RECEPTA	CLES	7.42 KVA 2.23 KVA
MAIN BREAKER Main lugs only _ 225A				<u> 16.97</u> 14.76		<u>11.86</u> KV <u>10.71</u> KV			MOTORS PANELS		<u>2.23 </u>
NEUTRAL BUS <u>225A</u>			PHASE C		KVA	14.13 KV			TRANSFO	RMERS	0.00 KVA
GROUND BUS <u>YES</u>		Т	OTAL	49.43	KVA	<u> </u>	VА			EQUIPMEN	
SHORT CIRCUIT RATING 25,00)0	RMS SYM	AMPS	137.2	AMPS	<u> 101.9 </u> AN	MPS	S & X:	SPARE &	3PACE	<u>0.06</u> KVA
NOTES: * DENOTES LOCK-OUT CLIP:	** DENO	tes gfi bf	REAKER: *	*** DENOT	ES VIA TIMECL	OCK: **** DEN	DTES V	IA CONTA	CTOR		
CIRCUIT USE		ONNECTED		CCT.	CIRCUIT	CIRCUIT	CCT.		NNECTED	LOAD	CIRCUIT USE
	A	В	С	NO.	BREAKER	BREAKER	NO.	A	В	С	
EACH IN FREEZER (36)	1,680			1	20A-1P **	20A-1P **	2	1,920			E: 30 QT MIXER (24)
EACH IN COOLER (38) POS SYSTEMS (110A)	-	888	480	3	20A-1P ** 20A-1P **	20A-1P ** 20A-1P **	4	-	348	1,704	E: REFRIGERATED PREP TABLE (2 E: COOK AND HOLD CAB (63) *
ITILITY RECEPTACLE (22)	180		460	5	20A-1P **	20A-1P **	8	180	7	1,704	E: UTILITY RECEPT (56) LEFT SIDE
EFRIG. PREP TABLE (103)		1,560		9	20A-1P **	20A-1P **	10		960		E: CONVECTION OVEN (59) TOP
EFRIG. PREP TABLE (105)			1,560	11	20A-1P **	20A-1P **	12			960	E: CONVECTION OVEN (59) BOT *
EACH IN FREEZER (126)	576	0.10		13	20A-1P **	20A-1P **	14	1,200	400		E: FRYER FILTER (62) ****
CORN TORTILLA PRES (17) 100D LIGHTS/CONTROL (95/95.4)	-	240	480	15	20A-1P ** 20A-1P *	20A-1P ** 20A-1P **	16 18	-	408	600	E: UPRIGHT BROILER (73) **** E: TILT SKILLET (72) ****
REF STAND (77)/GRIDDLE(78)****	420	7	400	19	20A-1P **	20A-1P **	20	1,200	7	000	E: FRYER FILTER (71) ****
RYER/FILERS (101) ****		1,200		21	20A-1P **	20A-1P **	22		0		S: SPARE
HEAT LAMP (108A,109) ****			1,056	23	20A-1P	20A-1P **	24			1,704	E: COOK AND HOLD CAB (63) *
HOT FOOD TABLE (104) MICROWAVE (88)	2,040	504		25	30A-1P** 20A-1P **	20A-1P ** 20A-1P **	26	1,188	1,920	_	E: REF EQ. STAND (20A)/(76) ** E: SMOKER (63A) ****
POS REGISTERS (130)	-	504	960	27 29	20A-1P **	20A-1P *	28 30	_	1,920	480	E: HOOD LIGHTS/CONTROL (68/6
REF PREP TABLE (82)	840			31	20A-1P **	30A-2P	32	2,496	7		E: HOT FOOD TABLE (84)
CONDIMENT REF (81)	_	204		33	20A-1P **		34		2,496		E:
JTILITY OUTLET (83A)		_	180	35	20A-1P **	20A-1P **	36	700	7	504	E: MICROWAVE (88) COOK LINE
SPARE POS (80A)	0	480		37	20A-1P ** 20A-1P **	20A-1P * 20A-1P **	38 40	700	840	_	E: HOOD LIGHTS/CONTROL (64/6 E: REF PREP TABLE (85)
COUNTERTOP WARMER (83)	-	400	1,800	41	20A-1P	20A-1P	40	-	040	0	S: SPARE
SPARE (5-)	0		.,	43	20A-1P	20A-1P	44	0		I	S: SPARE
PARE	-	0		45	20A-1P	20A-1P	46	_	0	<u> </u>	S: SPARE
PARE	760	7	60	47	20A-1P	20A-1P **	48		Г	180	R: ELEC ROOM RECEPTACLE
MP RESTROOM RECEPT 50.1) EXHAUST FAN EF-1	360	756		49 51	20A-1P 20A-1P	20A-1P 20A-1P	50 52	0	0		S: SPARE S: SPARE
50) CONDENSATE HOOD	-	,	800	53	20A-1P	20A-1P	54	-		720	R: OFFICE RECEPT
IENS WOMENS/ TOILETS CORR	360			55	20A-1P	20A-1P****		200]		R: EXT STRING LIGHTS EXS-1
	-	0		57	20A-1P	20A-1P****	58		0		S: SPARE
ETRACTABLE AWNING ATIO FANS/DINING FANS	90		800	59 61	20A-1P**** 20A-1P****	20A-1P ** 20A-1P **	60 62	960	7	960	R: POS SYSTEM (110) CHIP STAT R: POS SYSTEM (110) EXPO
XTERIOR LTG - WALL LTS *	30	220		61	20A-1P**** 20A-1P****	20A-1P ** 20A-1P **	62	300	960		R: POS SYSTEM (110) EXPO
XTERIOR LTG - CANOPY DN *			648	65	20A-1P****	20A-1P	66			275	M: RCP-1
TILITY RECEPT. SMOKER (63B)****				67	20A-1P **	20A-1P	68	200			L: LIGHTING CONTROLS
TILITY RECEPTACLE CAB. (63B)****		180	100	69	20A-1P **	20A-1P	70	-	600	600	M: WH-1
TILITY RECEPTACLE CAB. (63B)**** PARE	0		180	71	20A-1P ** 20A-1P	20A-1P 20A-1P	72	0	7	600	M: WH-2 S: SPARE
PARE		0		75	20A-1P	20A-1P	74		0		S: SPARE
PARE			0	77	20A-1P	20A-1P	78			0	S: SPARE
SPARE	0			79	20A-1P	20A-1P	80	0			S: SPARE
SPARE SPARE	-	0	0	<u> </u>	20A-1P 20A-1P	20A-1P 20A-1P	82 84	-	0	0	S: SPARE S: SPARE
SUB TOTAL	6,726	6,232	9,004		204-15	LUA-IF	04	10,244	8,532	8,687	SUB TOTAL
	ייחקנ		D			LP1) Emand L(nad Flush
PANEL DATA SCI	IEVU				NAME:			KFY I.	LIGHTING		14.81 KVA SURFACE
SERVICE <u>120/208V.,3PH.,4W</u>	•		СС	ONNECTED	LOAD	DEMAND LOAD			RECEPTA		7.02 KVA
SERVICE <u>120/208V.,3PH.,4W</u> Main breaker		F		<u> </u>		<u>6.75</u> K	VA		RECEPTA MOTORS	ULES	<u>7.02 </u>

PANEL DATA SC	MOM							: LIGHTING		0.00 KVA
SERVICE <u>120/208V.,3PH.,4V</u>			CO – HASE A	NNECTE 45.37	d load 7 kva	DEMAND LOAD <u>32.90</u> KV		R: RECEPTA 1: MOTORS	CLES	0.00 KVA 0.00 KVA
MAIN BREAKER <u>500A-3P</u> MAIN LUGS ONLY			hase a _ hase b _		<u>/</u> kva 1 kva	<u> </u>		P: PANELS		<u>101.43</u> KVA
NEUTRAL BUS <u>600A</u>			HASE C _	47.64	1 KVA	<u> </u>	A	T: TRANSFC	RMERS	<u>0.00</u> KVA
GROUND BUS <u>YES</u>			DTAL _	135.5		<u>101.43</u> KV	A E	: EXTRA		0.00 KVA
SHORT CIRCUIT RATING <u>25,0</u> NOTES:	00	RMS SYM	AMPS _	376.3	3 AMPS	<u>281.5</u> AM	IPS S&>	: SPARE &	C SPACE	<u>0.00</u> KVA
* DENOTES LOCK-OUT CLIP:	** DENO	tes gfi br	EAKER: **	** DENC	TES VIA TIMECL	OCK: **** DENO	TES VIA CONT	ACTOR		
CIRCUIT USE	СС	ONNECTED	LOAD	CCT.	CIRCUIT	CIRCUIT	CCT. C	ONNECTED	LOAD	CIRCUIT USE
	A	В	С	NO.	BREAKER	BREAKER	NO. A	В	С	
PANEL LP1	6,994	8,027	7	1	200A-3P	30A-3P	2 0 4	0		E: 80 KVA SURGE PROTECTIVE E: DEVICE MOUNTED BELOW PANE
	_	0,027	9,131	5			6	0	0	E:
PANEL KP1	21,403			7	200A-3P	SPACE	8 0			X: SPACE
	_	19,753	20,822	9		SPACE SPACE	10	0	0	X: SPACE X: SPACE
PANEL KP2	16,970		20,022	13	200A-3P	SPACE	14 0			X: SPACE
		14,764		15		SPACE	16	0		X: SPACE
	45 303	40 544	17,691	17		SPACE	18		0	X: SPACE
SUB TOTAL	45,367	42,544	47,644				0	0	0	SUB TOTAL
PANEL DATA SC	HEVII		D	NE	NAME:	KD0		Γ	EMAND L	DAD FLUSH
LOCATION _ELECTRIC ROOM	IIEVU	مگاهگ	۲7	WIE L			KEV I	LIGHTING		<u>2.45</u> KVA SURFACE ■
SERVICE <u>120/208V.,3PH.,4</u> V	V		CO	NNECTE	D LOAD	DEMAND LOAD		RECEPTA		<u>7.42</u> KVA
MAIN BREAKER			hase a _			<u>11.86</u> KV	A N	1: MOTORS		2.23 KVA
MAIN LUGS ONLY <u>225A</u>			HASE B _	14.76		<u> 10.71 </u> KV 14.13 KV		P: PANELS		0.00 KVA 0.00 KVA
NEUTRAL BUS <u>225A</u> GROUND BUS <u>YES</u>			HASE C _ DTAL _	<u> 17.69</u> 49.43	I \ V / \	<u> 14.13 </u>	, ,	T: TRANSFC T: KITCHEN		
SHORT CIRCUIT RATING <u>25,0</u>	00			137.2		<u> </u>		: SPARE &		
NOTES: * DENOTES LOCK-OUT CLIP:				** DENC						
CIRCUIT USE		ONNECTED		CCT.	CIRCUIT	CIRCUIT		ONNECTED	LOAD	CIRCUIT USE
	A	В	C	NO.	BREAKER	BREAKER	NO. A	В	С	
REACH IN FREEZER (36)	1,680	000	7	1	20A-1P **	20A-1P **	2 1,920	740		E: 30 QT MIXER (24)
EACH IN COOLER (38) POS SYSTEMS (110A)	_	888	480	<u> </u>	20A-1P ** 20A-1P **	20A-1P ** 20A-1P **	4	348	1,704	E: REFRIGERATED PREP TABLE (2 E: COOK AND HOLD CAB (63)
ITILITY RECEPTACLE (22)	180		400	7	20A-1P **	20A 11 20A-1P **	8 180		1,704	E: UTILITY RECEPT (56) LEFT SIDI
REFRIG. PREP TABLE (103)		1,560]	9	20A-1P **	20A-1P **	10	960		E: CONVECTION OVEN (59) TOP
REFRIG. PREP TABLE (105)			1,560	11	20A-1P **	20A-1P **	12		960	E: CONVECTION OVEN (59) BOT
REACH IN FREEZER (126)	576	0.4.0	7	13	20A-1P **	20A-1P **	14 1,200	400		E: FRYER FILTER (62) ****
CORN TORTILLA PRES (17) HOOD LIGHTS/CONTROL (95/95.4	7	240	480	15	20A-1P ** 20A-1P *	20A-1P ** 20A-1P **	16 18	408	600	E: UPRIGHT BROILER (73) **** E: TILT SKILLET (72) ****
REF STAND (77)/GRIDDLE(78)***			400	19	20A H 20A-1P **	20A 11 20A-1P **	20 1,200		000	E: FRYER FILTER (71) ****
RYER/FIILERS (101) ****		1,200		21	20A-1P **	20A-1P **	22	0		S: SPARE
HEAT LAMP (108A,109) ****	0.040	_	1,056	23	20A-1P	20A-1P **	24		1,704	E: COOK AND HOLD CAB (63)
HOT FOOD TABLE (104) MICROWAVE (88)	2,040	504	7	25 27	30A-1P** 20A-1P **	20A-1P ** 20A-1P **	26 1,188 28	1,920		E: REF EQ. STAND (20A)/(76) * E: SMOKER (63A) ****
POS REGISTERS (130)	_	504	960	27	20A-1P **	20A-1P *	30	1,920	480	E: HOOD LIGHTS/CONTROL (68/6
EF PREP TABLE (82)	840			31	20A-1P **	30A-2P	32 2,496			E: HOT FOOD TABLE (84)
CONDIMENT REF (81)		204		33	20A-1P **		34	2,496		E:
ITILITY OUTLET (83A)	0	_	180	35	20A-1P **	20A-1P **	36		504	E: MICROWAVE (88) COOK LINE
PARE POS (80A)	0	480	7	37 39	20A-1P ** 20A-1P **	20A-1P * 20A-1P **	38 700 40	840		E: HOOD LIGHTS/CONTROL (64/6 E: REF PREP TABLE (85)
COUNTERTOP WARMER (83)	_	100	1,800	41	20A-1P	20A-1P	42	010	0	S: SPARE
PARE	0		· · ·	43	20A-1P	20A-1P	44 0		I	S: SPARE
PARE		0		45	20A-1P	20A-1P	46	0	4.5.5	S: SPARE
PARE MP RESTROOM RECEPT	360	_	60	47	20A-1P 20A-1P	20A-1P **	48		180	R: ELEC ROOM RECEPTACLE S: SPARE
50.1) EXHAUST FAN EF-1	360	756	7	49 51	20A-TP 20A-1P	20A-1P 20A-1P	50 0 52	0		S: SPARE
50) CONDENSATE HOOD	_	,	800	53	20A-1P	20A-1P	54		720	R: OFFICE RECEPT
IENS WOMENS/ TOILETS CORR	360			55	20A-1P	20A-1P****	56 200			R: EXT STRING LIGHTS EXS-1
	_	0	800	57	20A-1P	20A-1P***	58	0		S: SPARE
ETRACTABLE AWNING	90		800	59 61	20A-1P**** 20A-1P****	20A-1P ** 20A-1P **	60 62 960		960	R: POS SYSTEM (110) CHIP STA R: POS SYSTEM (110) EXPO
XTERIOR LTG - WALL LTS *	30	220	7	61	20A-1P**** 20A-1P****	20A-1P **	64	960		R: POS SYSTEM (110) EXPO
XTERIOR LTG - CANOPY DN *			648	65	20A-1P****	20A-1P	66		275	M: RCP-1
TILITY RECEPT. SMOKER (63B)***				67	20A-1P **	20A-1P	68 200			L: LIGHTING CONTROLS
TILITY RECEPTACLE CAB. (63B)*** TILITY RECEPTACLE CAB. (63B)***		180	180	69	20A-1P ** 20A-1P **	20A-1P 20A-1P	70	600	600	M: WH-1 M: WH-2
PARE	* 0	7	100	71	20A-1P ** 20A-1P	20A-TP 20A-1P	72 74 0		000	S: SPARE
SPARE SPARE	-	0	7	75	20A-1P	20A-1P	76 76	0		S: SPARE
SPARE	_		0	77	20A-1P	20A-1P	78	. <u> </u>	0	S: SPARE
SPARE	0			79	20A-1P	20A-1P	80 0			S: SPARE
SPARE SPARE	_	0	0	81 83	20A-1P 20A-1P	20A-1P 20A-1P	82 84	0	0	S: SPARE S: SPARE
SUB TOTAL	6,726	6,232	9,004	03	ZUATIP	LOATIC	10,244	8,532	8,687	SUB TOTAL
SUB IUTAL	-,, 20	-,202	-,					-,	-,	
	LENI		D	N EI		LP1			EMAND L	DAD FLUSH
PANEL DATA SC	NEVU	LE	F /		NAME:					DAD FLUSH ⊡ SURFACE ■ 14.81 KVA
LOCATION <u>ELECTRIC ROOM</u> SERVICE <u>120/208V.,3PH.,4</u> V	V		CO	NNECTE	d load	DEMAND LOAD		: LIGHTING R: RECEPTA		<u>7.02</u> KVA
MAIN BREAKER	••	 P	hase a _	6.69	KVA	<u> 6.75 </u> KV		I: MOTORS		2.13 KVA

PANEL DATA SCH	HEDU	LE	P	NE	NAME:	LP1			DE	EMAND LC	DAD FLUSH
LOCATION _ELECTRIC ROOM								KEY: L:	LIGHTING		14.81 KVA
SERVICE	•		COI	NNECTE	d load	DEMAND LOAD			RECEPTAC	CLES	7.02 KVA
MAIN BREAKER		P	hase a _	6.69	KVA	6.75KV	/Α		MOTORS		2.13 KVA
MAIN LUGS ONLY <u>225A</u>			HASE B _	8.33	KVA	<u>8.70</u> KV	Α/		PANELS		0.00 KVA
NEUTRAL BUS <u>225A</u>			HASE C _	9.13	KVA	<u>8.51</u> KV			TRANSFOF	RMFRS	<u>0.00</u> KVA
GROUND BUS YES			OTAL _	24.15		23.96KV			KITCHEN I		
SHORT CIRCUIT RATING _25,00)0	RMS SYM		67.0			1PS		SPARE &		0.00 KVA
NOTES:											
* DENOTES LOCK-OUT CLIP:	** DENO	tes gfi br	EAKER: **	* DENC	DTES VIA TIMECLO	DCK: **** DENC) TES \	/IA CONTA	CTOR		
CIRCUIT USE	CC	ONNECTED	LOAD	CCT.	CIRCUIT	CIRCUIT	CCT.	CO	NNECTED L	_OAD	CIRCUIT USE
	A	В	С	NO.	BREAKER	BREAKER	NO.	А	В	С	
L: FRONT SIGN LEFT	1,200			1	20A-1P****	20A-1P *	2	1,530			L: KITCHEN - 2 X 4 LIGHTING/EM ***
L: FRONT FACADE OUTDOOR SIGN RIGHT	•	1,200		3	20A-1P****	20A-1P *	4		621	7	L: KITCHEN - DOWNLIGHTS/EM ****
R: BAR USB RECEPT WEST		L	900	5	20A-1P	20A-1P *	6			362	L: TOILET/MECH/STORAGE/EM
R: BAR USB RECEPT EAST	720			7	20A-1P*	20A-1P *	8	398			L: DINING LTG Z1-Z3,Z9,Z11/EM ****
R: VESTIBULE/DINING		900		9	20A-1P*	20A-1P ****	10		155		L: EXPO/HOST – Z6, Z7,Z8
R: SHOW WINDOW - DINING/LOUNGE			1,620	11	20A-1P****	20A-1P ****	12			295	L: BAR DINING Z12, Z13, Z15,Z17,Z18,Z22
R: OUTDOOR RECEPTACLES FRONT	180			13	20A-1P****	20A-1P ****	14	225			L: LOUNGE LIGHITNG ZONE Z10
R: IT RACK		360		15	20A-1P	20A-1P ****	16		345		L: BAR MARQUEE LIGHTS/S1/S2
R: OFFICE RECEPT.	-		720	17	20A-1P	20A-1P ****	18	1		1,200	L: DINING WALL LIGHTS WS-4,5,6
R: BAR DECOR - CEILING	720			19	20A-1P****	20A-1P *	20	375			L: DINING EM LTG/INVERTER
M: EF5,EF6****		1,392		21	20A-1P	20A-1P *	22		100		R: FIRE ALARM PANEL
M: EF7,EF8****			734	23	20A-1P	20A-1P	24			540	R: BAR TELEVISIONS EAST
R: EXPO/HOST ABOVE COUNTER	720			25	20A-1P	20A-1P	26	540			R: BAR TELEVISIONS WEST
R: DINING/BAR USB RECEPTACLES		1,080		27	20A-1P	20A-1P ****	28		500		L: DINING WALL LIGHTS WS-7,8,9,10
R: DINING/SERVICE RECEPTACLES			1,080	29	20A-1P	20A-1P *	30			0	S: SPARE
S: SPARE	0			31	20A-1P	20A-1P ****	32	80			L: DINING TRACK Z5
S: SPARE		0		33	20A-1P	20A-1P ****	34		1,680		L: DINING ROOM PENDANTS Z4
S: SPARE			0	35	20A-1P	20A-1P ****	36			1,680	L: DINING ROOM PENDANTS Z5
S: SPARE	0			37	20A-1P	20A-1P	38	0			S: SPARE
S: SPARE		0		39	20A-1P	20A-1P	40		0		S: SPARE
S: SPARE			0	41	20A-1P	20A-1P *	42			0	S: SPARE
SUB TOTAL	3,540	4,932	5,054					3,148	3,401	4,077	SUB TOTAL

MISSED BY FIELD PERSONNEL: a. WHEREVER CIRCUIT CONDUCTORS ARE SPLICED IN A BOX, ANY EQUIPMENT GROUNDING CONDUCTORS ASSOCIATED WITH THESE CIRCUITS MUST BE BONDED ('PIGTAILED") TO THE BOX PER NEC 250.148.

- b. ARC-FLASH HAZARD WARNING MARKINGS SHALL BE PROVIDED ON ELECTRICAL EQUIPMENT LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16.
- c. ILLUMINATION SHALL BE PROVIDED FOR ALL WORKING SPACES ABOUT ELECTRICAL EQUIPMENT AND THAT THE ILLUMINATION SHALL NOT BE CONTROLLED BY AUTOMATIC MEANS ONLY PER NEC 110.26(D).
- c. THE SERVICE DISCONNECT SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS THE SERVICE DISCONNECT.
- d. ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT AND THAT REQUIRED WORKING SPACE SHALL NOT BE USED FOR STORAGE PER NEC 110.26(A),(B),(C).
- e. THE PANEL DIRECTORIES SHALL HAVE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS AND THE PANEL LABEL(S) SHALL INCLUDE THE SOURCE OF FEED PER NEC 408.4.

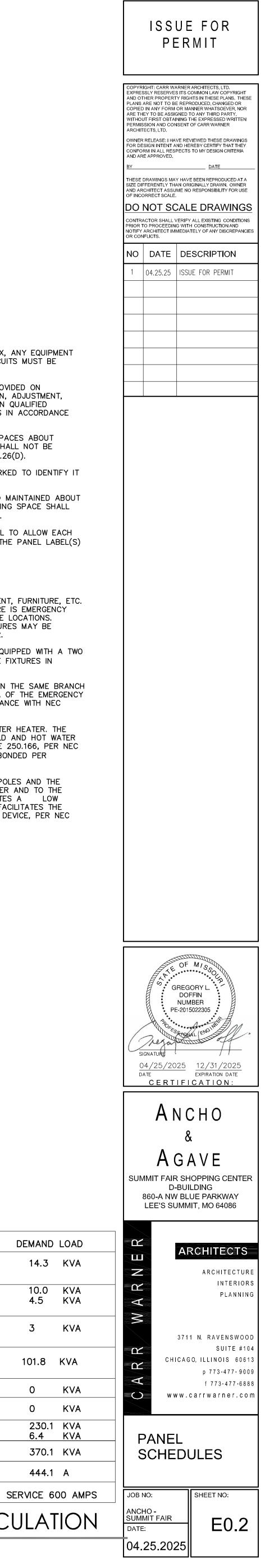
ELECTRICAL INSPECTOR SHALL FIELD VERIFY THE FOLLOWING: a. THE GROUNDING SYSTEM PER NEC 250.50.

- b. THE EXIT AND EMERGENCY LIGHTING ONCE ALL EQUIPMENT, FURNITURE, ETC. ARE IN PLACE. THIS INCLUDES VERIFICATION THAT THERE IS EMERGENCY LIGHTING PROVIDED AT EXTERIOR OF EGRESS DISCHARGE LOCATIONS. ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES MAY BE REQUIRED AT THE DISCRETION OF THE FIELD INSPECTOR.
- c. THAT THE EXTERIOR EMERGENCY EGRESS LIGHTING IS EQUIPPED WITH A TWO (2) LAMP / TWO (2) LED DRIVER FIXTURE OR MULTIPLE FIXTURES IN PROXIMITY TO EACH OTHER.
- d. THAT ALL EMERGENCY LIGHTING SHALL BE INSTALLED ON THE SAME BRANCH CIRCUIT THAT SUPPLIES NORMAL LIGHTING IN THE AREA OF THE EMERGENCY LIGHTING, AHEAD OF ANY LOCAL SWITCHING IN ACCORDANCE WITH NEC 700.12(F) AND NEC 408.4.
- e. THE BONDING OF THE WATER PIPE SYSTEM AT THE WATER HEATER. THE WATER HEATER SHALL BE JUMPERED BETWEEN THE COLD AND HOT WATER PIPES WITH A JUMPER SIZED ACCORDING TO NEC TABLE 250.166, PER NEC 250.104(A)(1) AND ANY METAL GAS PIPING SHALL BE BONDED PER NEC 250.104(B).
- f. ALL EXPOSED METAL PARTS OF THE PROPOSED LIGHT POLES AND THE MONUMENT SIGN ARE EFFECTIVELY CONNECTED TOGETHER AND TO THE ELECTRICAL SUPPLY SOURCE IN A MANNER THAT CREATES A LOW IMPEDANCE PATH FOR GROUND FAULT CURRENT THAT FACILITATES THE OPERATION OF THE CIRCUIT OVERCURRENT PROTECTION DEVICE, PER NEC 250.4(A)(5).

	CONNECT	ED LOAD		DEMAN
LIGHTING	11.4	KVA	© 125%	14.3
RECEPTACLES	19	KVA	1ST 10KVA @ 100% REST @ 50%	10.0 4.5
BUILDING SIGNAGE	2.4	KVA	@ 1.2 KVA X 125%	3
KITCHEN EQUIPMENT	156.6	KVA	© 65%	101.8
PATIO HEATERS	36	KVA	© 0%	0
ELECTRIC HEAT	15.7	KVA	@ 0%	0
MECHANICAL	230.1	KVA	@ 100% LARGEST @ 25%	230 6.4
	471.2	KVA	TOTAL LOAD	370

CODE MINIMUM SERVICE SIZE CALCULATION

NO SCALE



LIGHT FIXTURE SCHEDULE													
TAG	DESCRIPTION	MANUFACTURER CATALOG NUMBER	LAMP	WATTS	VOLTS	DIMMING TECHNOLOGY	MOUNTING LOCATION	REMARKS					
A-1	2'X4' LED LAY-IN LED PANEL	LITHONIA CPX-2X4-ALO8-SWW7-M2	LED	51W	120	0-10V	RECESSED						
A-1 EM	2'X4' LED LAY-IN LED PANEL WITH EM BATTERY	LITHONIA CPX-2X4-ALO8-SWW7-M2 WITH IOTA ILBLP-CP10-HE-SD-A EMERGENCY DRIVER	LED	51W	120	0-10V	RECESSED						
A-2	2'X4' LED SURFACE MOUNTED LAY IN LED PANEL WITH SURFACE FRAME	LITHONIA CPX-2X4-ALO8-SWW7-M2 WITH 2X4SMKSH-SHALLOW DEPTH SURFACE MOUNT KIT	LED	51W	120	0-10V	SURFACE						
A-3	2'X2' LED LAY-IN TROFFER	COOPER SQ4-F-OU-100D-930-1-D-UNV-STD-W-AC48-JB-4	LED	10W	120	0-10V	RECESSED						
C-1	3" LED WALL WASH	COOPER LDA3B-10-R40-90-27-DIMMABLE	LED	9W	120	I.C.C.	RECESSED						
C-2	6" LED DOWNLIGHT	LITHONIA RB56SWW5MWM6	LED	15W	120	0-10V	RECESSED						
D-1	PORCELAIN SOCKET LIGHT UNDER BAR CANOPY	COMMUNE LIGHT SOCKETS MEDIUM BASE LIGHT SOCKET	LED	4.5W	120V	PHASE DIMMING	CANOPY						
EM1	EDGE LIT EXIT SIGN WITH BATTERY BACKUP	LITHONIA EDG 1 R EL	LED	2W	120V	NA	UNIVERSAL						
EM2	FRONT OF HOUSE EMERGENCY BATTERY LIGHT	SURE LIGHTS SELDA50_SD	LED	2W	120V	NA	WALL						
EM3	BACK OF HOUSE EMERGENCY BATTERY LIGHT	SURE LIGHTS APELH2WH-WHITE	LED	2W	120V	NA	WALL						
EM4	MONOPOINT TRACK LIGHT WIRED TO EMERGENCY LIGHTING INVERTER	JUNO R600L-G2-27K-80CRI-DIMMABLE-NFL-BL	LED	10W	120V	NA	PENDANT	INVERTER BY EC REFER TO DRAWINGS					
F1	CEILING FAN WITHOUT LIGHT KIT	MATTHEWS FAN DG-BK-MTL	LED	18W	120V	NA	PENDANT						
P-1	DECORATIVE PENDANT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	4.5W	120V	PHASE DIMMING	PENDANT						
P-2	DECORATIVE PENDANT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	4.5W	120V	PHASE DIMMING	PENDANT						
P-3	DECORATIVE PENDANT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	7-LAMPS	120V	PHASE DIMMING	PENDANT						
	FLUSH MOUNT FIXTURE	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	60W EA 3-LAMPS	120V	PHASE DIMMING	FLUSH						
		REFER TO ARCHITECTURAL DRAWING # A2.1		4.5W EA	1200		FLUSH						
P-5	UNUSED												
P-6	DECORATIVE PENDANT (15 DIFFERENT STYLES A-N)	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	4.5W	120V	PHASE DIMMING	PENDANT						
P-7	DECORATIVE FLUSH MOUNT PENDANT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	6W	120V	PHASE DIMMING	PENDANT						
S-1	LED ROPE TAPE	GM LIGHTING LTR-P-12V-1.5W-27K-16	LED	1.5W/FT	120	PHASE DIMMING	SURFACE						
T-1	TRACK WITH LED HEADS	JUNO R600L-G2-27K-80CRI-DIMMABLE-NFL-BL	LED	10W	120	PHASE DIMMING	SURFACE						
T-2	2'-0" TRACK WITH LED HEADS	JUNO R600L-G2-27K-80CRI-DIMMABLE-NFL-BL	LED	10W	120	PHASE DIMMING	SURFACE						
WS-1	WALL SCONCE	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	4.5W	120	PHASE DIMMING	SURFACE						
WS-2	WALL SCONCE	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	4.5W	120	PHASE DIMMING	SURFACE						
WS-3	WALL SCONCE	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	4.5W	120	PHASE DIMMING	SURFACE						
WS-4	FEEL GOOD SIGN LIGHT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	400W	120	PHASE DIMMING	SURFACE						
WS-5	TACOS AMIGOS SIGN LIGHT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	400W	120	PHASE DIMMING	SURFACE						
WS-6	BUENE PROVECHO SIGN LIGHT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	400W	120	PHASE DIMMING	SURFACE						
WS-7	STAR 48 SIGN LIGHT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	100W	120	PHASE DIMMING	SURFACE						
WS-8	STAR 30 SIGN LIGHT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	100W	120	PHASE DIMMING	SURFACE						
WS-9	STAR 36 SIGN LIGHT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	100W	120	PHASE DIMMING	SURFACE						
EXD-1	UNUSED												
EXD-2	4" EXTERIOR EXPOSED MARQUEE LIGHT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	4.5W	120	PHASE DIMMING	SURFACE	4.5 W PER LAMP					
EXF-1	EXTERIOR FAN - NO LAMP KIT	MATTHEWS DGLK-BN-MTL		18W	120		SURFACE						
	EXTERIOR HEATER ROD MOUNTED	BROMIC 6000W SERIES		6000W	208V 1PH		ROD/POLE MTD						
	EXTERIOR STRING LIGHTS	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	.6/LF	120	PHASE DIMMING	SURFACE						
	EXTERIOR WALL SCONCE	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	5W	120	PHASE DIMMING	SURFACE						
	EXTERIOR WALL SCONCE	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	32W	120	PHASE DIMMING	SURFACE						
EXWW-1	LIGHT	REFER TO ARCHITECTURAL DRAWING # A2.1	LED	6W/LF	120	PHASE DIMMING	SURFACE						

YPICAL LIGHT FIXTURES SHALL HAVE MANUFACTURER LABEL INDICATING MAXIMUM WATTAGE OF NO MORE THAN INDICATED ON THIS SCHEDULE FOR FINAL LIGHTING CONFIGURATION DIMENSIONS AND SPECIFICATIONS REFER TO ARCHITECTURAL DRAWINGS. DESIGN ARCHITECT TO APPROVE FINAL LOCATION OF ALL CEILING FIXTURES PRIOR TO FINAL TAPING AND CEILING PAINT. ALL DIMENSIONS AND LIGHTING FIXTURE PLACEMENT ARE APPROXIMATE UNTIL VERIFIED BY FIELD OBSERVATION AND DESIGN ARCHITECT APPROVAL.

			CON	ITACTOR S	SCHED	ULE					
EXTERNAL	INTERNAL						CONTACT				
CONTACTOR	CONTACTOR	SCENE	MANUFACTURER	TYPE	COIL	CONTACT	AMPERE	NO. OF	POLES	NEMA TYPE	CIRCUITS
LABEL	PANEL LABEL		MODEL		VOLTAGE	VOLTAGE	RATING	N.O.	N.C.	ENCLOSURE	CONTROLLED
1A		1 INTERIOR LIGHTS	GENERAL ELECTRIC CR463L20-AJA	ELEC ENERGIZED ELEC HELD	120	120	30		12	NEMA 1	LP1-2,4,6,8,10,12,14,16,18,11,13,19
1B		1 INTERIOR LIGHTS	GENERAL ELECTRIC CR463L20-AJA	ELEC ENERGIZED ELEC HELD	120	120	30		12	NEMA 1	LP1-21,23,28,32,34,36
2A		2 OUTSIDE LIGHTS/SIGNS	GENERAL ELECTRIC CR463L20-AJA	ELEC ENERGIZED ELEC HELD	120	120	20	6		NEMA 1	LP1-1,3 KP2-56,61,63,65

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LIGHTING FIXTURE SCHEDULE NOTES:

1. COORDINATE LENGTH OF ALL PENDANT FEEDS WITH OWNER PRIOR TO INSTALLATION. 2. LIGHITNG FIXTURES FURNISHED, INSTALLED AND WIRED BY E.C. E.C. SHALL PROVIDE ALL MATERIALS AND LABOR FOR A COMPLETE INSTALLATION BY OWNER. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS AND HEIGHTS.

- 3. CONTRACTOR SHALL PROVIDE ALL LAMPS.
- 4. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE, TRIM RINGS, ETC. FOR THE TYPE OF CEILING SPECIFIED. COORDINATE WITH THE ARCHITECTURAL ROOM FINISH SCHEDULE.
- 5. FOR EXIT LIGHTS, COORDINATE MOUNTING CONFIGURATION REQUIREMENT, DIRECTIONAL ARROWS, NUMBER OF FACES, ETC. WITH PLAN DRAWINGS.
- 6. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE, FITTINGS, CONNECTORS, PENDANT FEEDS, END CAPS, ETC. FOR A COMPLETE TRACK LIGHTING SYSTEM.
- 7. CONTRACTOR SHALL PROVIDE ALL NECESSARY LOW VOLTAGE TRANSFORMERS, CONNECTORS, MOUNTING CLAMPS, ETC. FOR A COMPLETE LOW VOLTAGE LIGHTING SYSTEM.
- 8. CONTRACTOR SHALL VERIFY THICKNESS OF CEILING SYSTEMS AND PROVIDE EXTENSIONS AS REQUIRED FOR ALL DOWNLIGHTS.
- 9. PROVIDE ALL CONTROL WIRING NECESSARY FOR CONTROL WIRES OF 0-10V LED SYSTEMS. COORDINATE EXACT WIRING REQUIREMENTS WITH ALL LED FIXTURES, AND DIMMING CONTROL MODULES. PROVIDE A COMPLETE AND OPERATING SYSTEM.

PROVIDE UNISTRUT MOUNT FOR ALL FIXTURES LOCATED AT FRONT OF HOUSE. COORDINATE EXACT MOUNTING HEIGHT WITH **ARCHITECT / OWNER REPRESENTATIVE.**

LIGHTING SENSOR SCHEDULE SENSOR DESCRIPTION

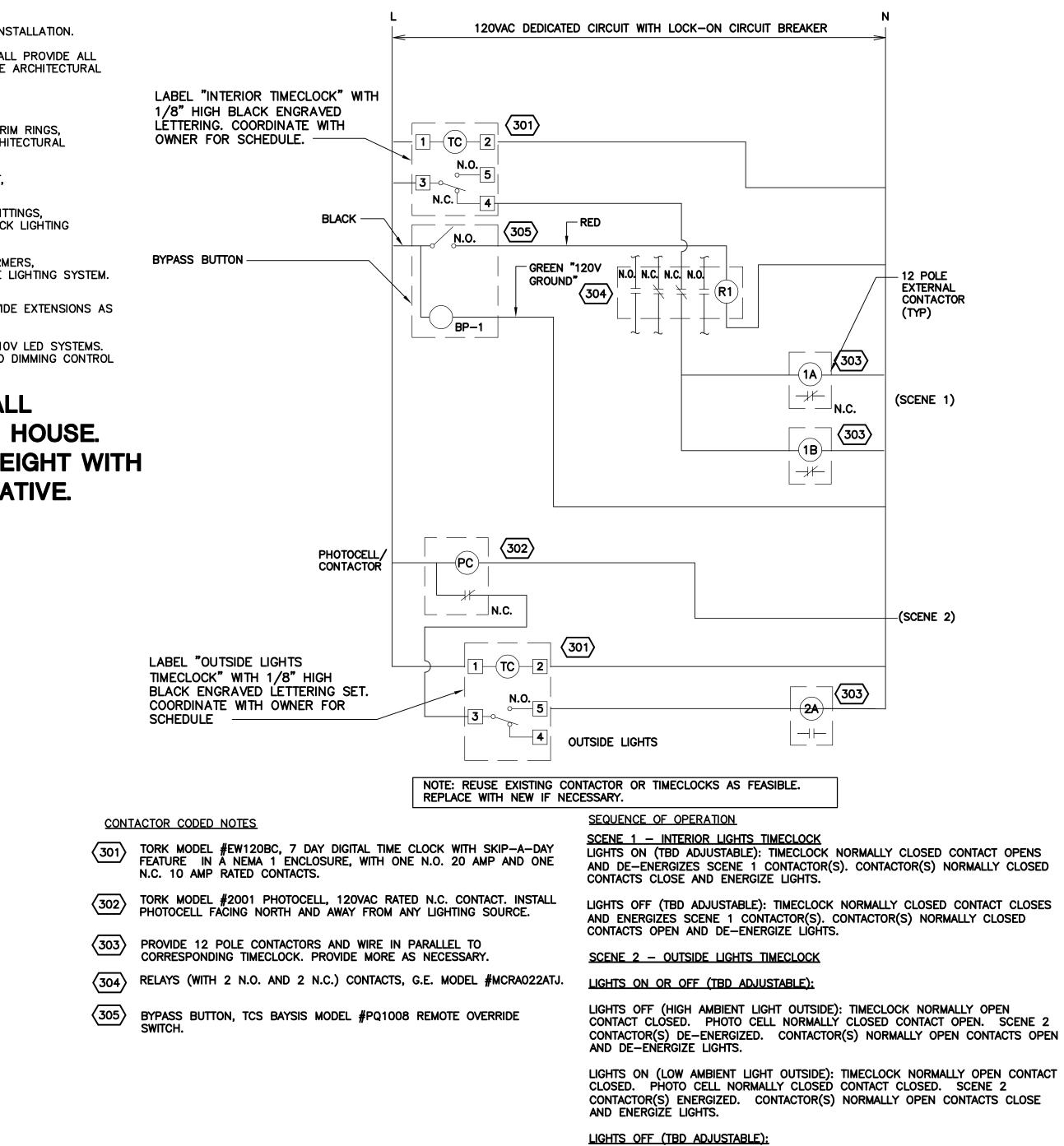
ITPE	DESCRIPTION	MODEL #
OS	500 SQ. FT. ROOM SENSOR – DUAL TECHNOLOGY	CM-PDT-9
P1	POWER PACK (120V.)	PP-20
SP	SLAVE PACK (120V.)	SP-20
09	AUTOMATIC DIMMING PHOTOCELL	CM-PC-ADC
⊮ OS	WALL MOUNTED VACANCY SENSOR SWITCH	WSD-PDT-SA
⊮ OSD	WALL MOUNTED VACANCY SENSOR SWITCH WITH DIMMING	WSX-D

OCCUPANCY SENSOR SCHEDULE NOTES:

- 01. PLAN DRAWING LOCATIONS OF OCCUPANCY SENSOR ARE DIAGRAMATIC ONLY. CONTRACTOR SHALL LOCATE OCCUPANCY SENSOR PER MANUFACTURER'S RECOMMENDATIONS.
- 02. WALL MOUNTED OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR MANUAL ON / AUTOMATIC OFF OPERATION. OCCUPANCY SENSORS SHALL TURN OFF AFTER NO OCCUPANCY HAS BEEN DETECTED FOR 20 MINUTES.
- 03. CONTRACTOR SHALL COORDINATE OCCUPANCY SENSOR SETTINGS WITH OWNER AND FIELD ADJUST AS REQUIRED.
- 04. FURNISH AND INSTALL A POWER PACK FOR EACH CIRCUIT/SWITCH LEG THAT IS CONTROLLED BY A OCCUPANCY SENSOR. IF OCCUPANCY SENSOR SERVES BOTH NORMAL AND CRITICAL POWER THE POWER PACK SHALL BE POWERED BY THE CRITICAL CIRCUIT.
- 05. COORDINATE PHOTOCELL SET POINTS WITH OWNER'S REPRESENTATIVE.
- 06. OR EQUAL BY LEVITON, LUTRON, ACUITY, WATTSTOPPER OR COOPER.

LDA ZONE	DIMMER #
Z-1	D1
Z-2	D2
Z-3	D3
Z-4	D4
Z-4	D5
Z-5	D6
Z-6	D7
Z-7	D8
Z-8	D9
Z-9	D10
Z-10	D11
Z-11	D12
Z-12	D13
Z-13	D14
Z-14	D15
Z-15	D16
Z-16	D17
Z-17	D18
Z-18	D19
Z-19	D20
Z-20	D21
Z-21	D22
Z-22	D23
Z-23	D24

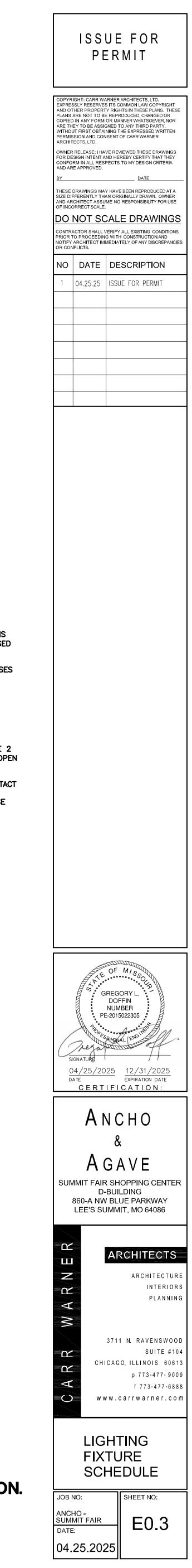
NOTE: ALL SWITCHES SHALL HAVE REMOTE INDICATOR LIGHTS AND LABELED FOR IDENTIFICATION.



TIMECLOCK NORM	MALLY OPEN CO	NTACT OPEN	N. SCENE 2	2 CONTACTOR(S)
DE-ENERGIZED.		NORMALLY	OPEN CONT	ACTS OPEN AND
DE-ENERGIZE LIG	יםוס.			

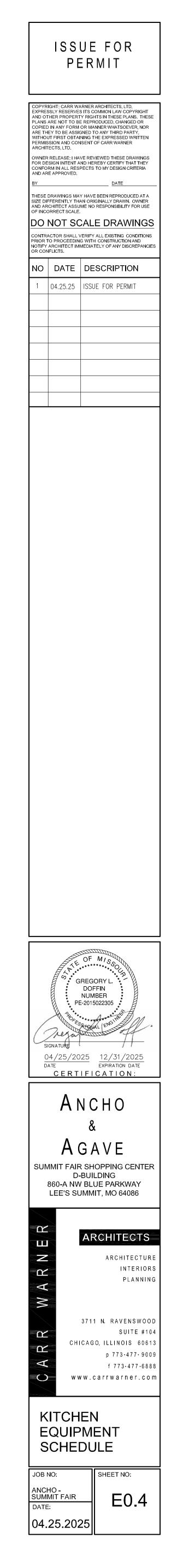
CONFIRM ALL TIME SETTINGS WITH OWNER REPRESENTATIVE AHEAD

ŀ	AREA CONTROLLED	TYPE	QTY	W	LOAD	CONTROL TYPE	PANEL - CIRCUI
	MAIN DINING PENDANT LTS	P-1	8	8	64	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-8a
	DINING TRACK LTS	T-1	10	10	100	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-8b
	DINING TRACK LTS	T-1	14	10	140	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-8c
	CENTER PENDANTS BAR/DINING	P-3	28	60	1,680	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-34
	CENTER PENDANTS BAR/DINING	P-3	28	60	1,680	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-36
	DINING TRACK LTS	T-2	12	10	120	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-32a
	POS TRACK LTS	T-1	3	10	30	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP-10b
	WALL SCONCE	WS-1	7	5	35	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-10c
	DINING TRACK LTS	T-1	9	10	90	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-10a
	DINING PENDANTS	P-1	8	8	64	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-8d
	LOUNGE PENDANTS	P6	45	5	225	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-14
-	DINING TRACK LTS	T-1	3	10	30	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-8e
	VESTIBULE PENDANT	P4	1	5	5	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-12f
	VESTIBULE DOWNLIGHTS	C-1	6	15	90	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-12e
	ENTRY TRACK LTS	T-1	3	10	30	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-10d
	RESTROOM CORRIDOR PENDANT	P-2	3	5	15	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-12h
	FEEL GOOD LIGHTS	WS-4,5,6	3	400	1,200	ON/OFF SWITCH, TIMECLOCK	LP1-18
	BEVERAGE DOWNLIGHTS	C-2	3	15	45	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-12i
	BAR TRACK LIGHTS	T1	12	10	120	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-12a
	BAR MARQUEE LIGHTS	D1	36	5	180	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-16a
	DINING SIGN LIGHTS	WS-7,8,9,10	5	100	500	ON/OFF SWITCH, TIMECLOCK	LP1-28
	BAR TAPE LIGHTS	S-1	110	1.5	165	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-16b
	BEVERAGE TAPE LIGHTS	S-1	13	1.5	20	UNIVERSAL DIMMER SWITCH, TIMECLOCK	LP1-12j
	FANS	F-1	2	83	166	ON/OFF SWITCH, TIMECLOCK, SPEED BY REMOTE	KP2-61a
	PUBLIC MEN'S RESTROOM	WS-2/P-7	5/8	5/6	73	OCCUPANCY SENSOR, 20 MINUTES AUTO SHUTOFF, REMOTE DIMMER	LP1-6m
	PUBLIC WOMEN'S RESTROOM	WS-2/P-7	5/8	5/6	73	OCCUPANCY SENSOR, 20 MINUTES AUTO SHUTOFF, REMOTE DIMMER	LP1-6p
	STORAGE	A-1	1	51	51	OCCUPANCY SENSOR, 20 MINUTES AUTO SHUTOFF	LP1-6r
	EMPLOYEE 1 RESTROOM	C-2/WS-3	2/1	15/5	35	OCCUPANCY SENSOR, 10 MINUTES AUTO SHUTOFF	LP1-6b
	EMPLOYEE 2 RESTROOM	C-2/WS-3	2/1	15/5	35	OCCUPANCY SENSOR, 10 MINUTES AUTO SHUTOFF	LP1-6a
	CHIPS/WRAP	C-2	11	15	165	0-10V DIMMER SWITCH, TIMECLOCK	LP1-4a
	APP COOK LINE	C-2	10	15	150	0-10V DIMMER SWITCH, TIMECLOCK	LP1-4b
	COOK LINE 1	A-1	30	51	1530	0-10V DIMMER SWITCH, TIMECLOCK	LP1-2c
	COOK LINE 2	A-1	6	51	306	0-10V DIMMER SWITCH, TIMECLOCK	LP1-4c
	ELECTRICAL	A-2	1	51	51	OCCUPANCY SENSOR, 20 MINUTES AUTO SHUTOFF	LP1-6z
	OFFICE	A-3	2	10	20	OCCUPANCY SENSOR, 20 MINUTES AUTO SHUTOFF	LP1-6c
	EXTERIOR WALL SCONCE	EXWS-1	7	5	35	PHOTOCELL ON, TIMECLOCK OFF	KP2-63
	EXTERIOR WALL SCONCE	EXWS-2	9	32	288	PHOTOCELL ON, TIMECLOCK OFF	KP2-63
	EXTERIOR CANOPY LIGHTS	EXD-2	192	4.5	864	PHOTOCELL ON, TIMECLOCK OFF	KP2-65
	EXTERIOR STRING LIGHTS	EXST-1	193	0.6	115.8	PHOTOCELL ON, TIMECLOCK OFF	KP2-56
	EXTERIOR FAN	EXF-1	3	18	54	ON/OFF SWITCH, TIMECLOCK, SPEED BY REMOTE	KP2-61b



SF: 1.00 JC

			KITCHI	EN ELECTF	RICAL SC	HEDULE					
		NO.	DESCRIPTION	VAC/PH	LOAD	RECEPTACE	CONNECTION	SOURCE	CONDUIT AND WIRING	MOUNTING HEIGHT	REMARKS
		1 1A	BEER COOLER LIGHTS BEER COOLER UNIT COOLER	120/1 120/1	6.5A 1.5A		HARDWIRE HARDWIRE	KP1–1 (TIE) KP1–1 (TIE)	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	80" 80"	A,K,P C,K,Z
		1B 6	WALK-IN BEER COOLER REF. SYSTEM CARBONATORS (3)	208/1	13.0A 8.0A EA.	5–20R EA	HARDWIRE	KP1-(38,40) KP1-2,4,6	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G EA	EXT. ROOF 72"	C D,E,H
		7A 9	CO2 DETECTOR WALK IN COOLER LIGHTS	120/1 120/1 120/1	15A CIRC. 4.0A		HARDWIRE HARDWIRE	KP1-13 KP1-15 (TIE)	1/2"C. -2 # 12 & 1 # 12G 1/2"C. -2 # 12 & 1 # 12G 1/2"C. -2 # 12 & 1 # 12G	80"	D,E
		9A 9B	WALK IN COOLER EVAPORATOR COIL(2) WALK IN COOLER REMOTE COMPRESSOR	120/1 120/1 208/1	3.0A 19.7A		HARDWIRE	KP1-15 (TIE) KP1-15 (TIE) KP1-(7,9)	1/2"C2 # 12 & 1 # 12G	80" EXT. ROOF	<u> </u>
		10	AIR CURTAIN	120/1	6.5A EA. 13A		HARDWIRE HARDWIRE HARDWIRE	KP1-11	1/2"C2 # 10 & 1 # 10G 1/2"C2 # 12 & 1 # 12G EA.	90" 78"	<u> </u>
		12 15	BEER CHILLER (ON TOP OF WALK-IN) NITRO	208/1 120/1	15A CIRC.		HARDWIRE	KP1-(10,12) KP1-26	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	18"	D,E
		17 18	CORN TORTILLA PRESS UTILITY OUTLET (3)	120/1 120/1	2.0A 15A CIRC.	5-20R 5-20R GFCI EA		KP2-15 KP1-14,16,18	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G EA	50" 50"	D,H D,E
		20 20A	60" GRIDDLE REFRIGERATED EQUIPMENT STAND	120/1 120/1	1.0A 4.2A	5-20R 5-20R		KP1-8 (TIE) KP2-26 (TIE)	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	26 " 12"	D,H D,H
		21 22	UTILITY OUTLETS (3) UTILITY OUTLET (1)	120/1 120/1	20A CIRC. 20A CIRC.	5-20R GFCI EA 5-20R GFCI		KP1-20,22,24 KP2-7	1/2"C2 # 12 & 1 # 12G EA 1/2"C2 # 12 & 1 # 12G	50" 50"	D,E D,E
		24 27	30 QUART FLOOR MIXER REFRIGERATED PREP TABLE	120/1 120/1	16A 2.9A	5-20R 5-20R		KP2-2 KP2-4	1/2"C2 # 10 & 1 # 10G 1/2"C2 # 12 & 1 # 12G EA	24" 50"	C,E D,E
		33	UTILITY OUTLETS (2)	120/1	20A CIRC.	5-20R GFCI EA		KP1-28,30	1/2"C2 # 12 & 1 # 12G EA	50"	D,E
		33A 36	UTILITY OUTLETS (2) THREE DOOR REACH—IN FREEZER	120/1 120/1	14A	5-20R GFCI EA 5-20R		KP1-32,34 KP2-1	1/2"C2 # 12 & 1 # 12G EA 1/2"C2 # 12 & 1 # 12G	50" 12"	D,E D,H
		38 48	TWO DOOR REACH IN COOLER BOOSTER HEATER	120/1 480/3	7.4A 48A	5-20R	HARDWIRE	KP2-3 HP1-(14,16,18)	<u>1/2"C2 # 12 & 1 # 12G</u> 3/4C3 # 6 & 1 # 10 G	12" 24"	D,H C,E
		49 50	WAREWASHER CONDENSATE EXHAUST HOOD LIGHTS	480/3 120/1	22A 15A CIRC		HARDWIRE HARDWIRE	HP1-(20,22,24) KP2-53	3/4"C3 # 10 & 1 # 10 G 1/2"C2 # 12 & 1 # 12G	78" CEILING	<u>C,E</u> A,J,M,T
		50.1 55	CONDENSATE HOOD FAN (EF1) PULL DOWN ELECTRICAL CORD (2)	120/1 120/1	1/3 HP 20A CIRC	5–20R EA	HARDWIRE	KP2-51 KP1-27,29	<u>1/2"C2 # 12 & 1 # 12G</u> 1/2"C2 # 12 & 1 # 12G EACH	CEILING CEILING	A,E,M,O,T E,M
		56 59	UTILITY OUTLETS CONVECTION OVENS (2)	120/1 120/1	20A CIRC. 8.0A EA.	5-20R GFCI 5-20R EA		KP2-8 KP2-10,12	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G EACH	50"	D,E D,H
		62 63	FRYER FILTER HALF HEIGHT HOLDING CABINET (2)	120/1 120/1	10.0A 14.2A	5-20R 5-20R		KP2-14 KP2-6,24	1/2 °C2 # 12 & 1 # 120 EXCH 1/2°C2 # 12 & 1 # 12G 1/2°C2 # 12 & 1 # 12G EACH	24"	D,H D,H
		63A 63B	SMOKER OVEN	120/1	16.0A	5-20R 5-20R GFCI EA		KP2-28 KP2-67,69,71	1/2"C2 # 12 & 1 # 12G	24" 24"	D,H D,E
		64	UTILITY OUTLETS (3) EXHAUST HOOD LIGHTS	120/1 120/1	15A CIRC.	5-ZUR GFCI LA	HARDWIRE	KP2-38(TIE)	1/2"C2 # 12 & 1 # 12G EA 1/2"C2 # 12 & 1 # 12G	CEILING	A,J,M,T
		64.1 64.4	EXHAUST FAN (EF2) REMOTE FIRE SUPRESSION SYSTEM	208/3 120/1	5 HP 2.0 A		HARDWIRE HARDWIRE	– KP2–38(TIE)	REFER TO MOTOR SCHEDULE 1/2"C2 # 12 & 1 # 12G	ROOF CEILING	A,E,M,O,T A,M,O,T
		64.5 68	FIRE SUPRESSION REMOTE PULL EXHAUST HOOD LIGHTS	120/1	2.0 A			KP2-30(TIE)	3/4"C 1/2"C2 # 12 & 1 # 12G	48" CEILING	N A,J,M,T
	ELECTRICAL REMARKS	68.1 68.4	EXHAUST FAN (EF3) REMOTE FIRE SUPRESSION SYSTEM	208/3 120/1	5 HP 2.0 A		HARDWIRE	– KP2–30(TIE)	REFER TO MOTOR SCHEDULE	ROOF CEILING	A,E,M,O,T A,M,O,T
А. В.	WIRE TO JUNCTION BOX ON EQUIPMENT. ATTACH RECEPTACLE OR J.B. TO COUNTER, CABINET,	68.5 71	FIRE SUPRESSION REMOTE PULL FRYERS W/ FILTERS	120/1	10A	5.000			<u>1/2"C2 # 12 & 1 # 12G</u> <u>3/4"C</u> 1/2"C 2 # 12 % 1 # 12C	48" 24"	<u> </u>
	OR EQUIPMENT.	72	TILT SKILLET	120/1	5A	5-20R	HARDWIRE	KP2-20 KP2-18	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	24 24" 24"	C
C.	WIRE TO EQUIPMENT. PROVIDE DISCONNECT OR CORD AND PLUG AS REQUIRED BY LOCAL CODE.	73 75	UPRIGHT BROILER GRIDDLE	120/1 120/1	3.4A. 1.0A.	5-20R 5-20R		KP2-16 KP1-8 (TIE)	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	26"	D,H D,H
D.	PROVIDE RECEPTACLE FLUSH IN WALL.	76 77	REFRIGERATED EQUIPMENT STAND REFRIGERATED EQUIPMENT STAND	120/1 120/1	5.7A 2.5A	5-20R 5-20R		KP2–26 (TIE) KP2–19 (TIE)	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	24" 24"	D,H D,H
E.	EQUIPMENT NOT SUPPLIED BY A.D.E., VERIFY REQUIREMENTS WITH SUPPLIER.	78 79	GRIDDLE REFRIGERATED PREP STATION	120/1 120/1	1.0A. 4.5A	5-20R 5-20R		KP2–19 (TIE) KP1–61	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	26" 24"	D,H D,H
F.	DEDICATED CIRCUIT/ISOLATED GROUND, PROVIDE ELECTRICAL OUTLET. PROVIDE CONDUIT ACCESS FOR COMMUNICATION	80A 80B	KDS SCREENS (4) PRINTER	120/1 120/1	4.0A 4.0A	5-20R 5-20R		KP2-39 KP1-42	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	-	D,E,F,H D,E,F,H
	CABLE, VERIFY WITH OWNER.	81 82	CONDIMENT REFRIGERATOR REFRIG. PREP TABLE	120/1 120/1 120/1	1.7A 7.0A	5-20R 5-20R		KP2-33 KP2-31	1/2"C2 # 12 & 1 # 12G	24" 24"	<u> </u>
	PROVIDE AND INSTALL CORD & PLUG AND RECEPTACLE.	83	COUNTERTOP WARMER	120/1	15A CIRC.	5-20R GFCI		KP2-41	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	50"	B,H,L,A1
Н.	EQUIPMENT SUPPLIED WITH CORD & PLUG.	83A 84	UTILITY OUTLET (2) HOT FOOD TABLE	120/1 208/1	20A CIRC. 24.0A	5-20R GFCI	HARDWIRE	KP2-35 KP2-(32,34)	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 10 & 1 # 10G	24" 24"	D,E C
Ι.	WIRE FROM CONTROL PANEL OR WALL SWITCH TO FAN(S) ON EXTERIOR ROOF. PROVIDE AND INSTALL DISCONNECT. SWITCH AND STARTERS LOCATED IN CONTROL PANEL.	85 86	REFRIG. PREP TABLE UTILITY OUTLETS (2)	120/1 120/1	7.0A 20A CIRC. EA	5-20R · 5-20R EA.		KP2-40 KP1-17,19	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	24 " 36"	D,H D,E
J.	WIRE FROM SWITCH ON PANEL TO LIGHTS IN ALL HOODS.	87	HEAT LAMPS (3)	120/208/1	3.12 KW EA		HARDWIRE	KP1-(31,33), (35,37),(39,41)	1/2"C3 # 10 & 1 # 10G EACH		A,C,L,Z
к.	CONNECTION INSIDE WALK-IN FROM CEILING. E.C. TO CAULK	88 89	MICROWAVE (2) UTILITY OUTLETS (2)	120/1 120/1		5-20R 5-20R GFCI EA		KP2-27,36 KP1-43.45	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	39" 50"	D,H D,E
	ALL CONDUIT PENETRATIONS INSIDE AND OUTSIDE. RUN ALL HORIZONTAL CONDUIT ABOVE WALK-IN WHERE POSSIBLE.	91 94	UTILITY OUTLET ICE MAKER WITH BIN	120/1 208/1	20A CIRC. 20.1A	5-20R GFCI EA FUSED DISC.	HARDWIRE	KP1-21 KP1-(47,49)	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 10 & 1 # 10G	50" 72"	D,E C
L.	STUB UP FROM FLOOR, ATTACH TO RECEPTACLE OR J.B. ON EQUIPMENT.	95 95.1	EXHAUST HOOD LIGHTS EXHAUST FAN (EF4)	120/1 208/3	2 A 3 HP		HARDWIRE HARDWIRE	KP2–17(TIE) –	1/2"C2 # 12 & 1 # 12G REFER TO MOTOR SCHEDULE	CEILING ROOF	A,J,M,T A,E,M,O,T
М.	FROM CEILING.	95.4	REMOTE FIRE SUPRESSION SYSTEM	128/1	2 A		HARDWIRE	KP2-17(TIE)	1/2"C2 # 12 & 1 # 12G	CEILING 48"	A,M,O,T
N.	INSTALL 4x4 J.B. IN WALL, RUN CONDUIT ABOVE DROP CEILING FOR FIRE SYSTEM PULL STATION. VERIFY LOCATION	95.5 101	FIRE SUPRESSION REMOTE PULL FRYERS WITH FILTERS	120/1	10.0A	5-20R		KP2-21	3/4"C 1/2"C2 # 12 & 1 # 12G	24"	N D,H
0	W/ LOCAL INSPECTOR.	103 104	REFRIG. PREP TABLE SELF CONTAINED HOT FOOD TABLE	120/1 120/1	13.0A 17.0A	5-20R 5-30R		KP2-9 KP2-25	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 10 & 1 # 10G	24" 24"	D,H C
U.	PROVIDE CIRCUIT FOR ALARM, SHUNT TRIP BREAKERS & FAN SHUT-OFF AS REQUIRED BY LOCAL CODE. MICROSWITCH PROVIDED IN UTILITY CABINET. WIRE TO J.B. ON FIRE SYSTEM.	105 108A	REFRIG. PREP TABLE HEAT LAMP	120/1 120/1	13.0A 4.4A	5-20R	HARDWIRE	KP2–11 KP2–23	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	24" 50"	D,H D,H
Ρ.	ELECTRICIAN TO INSTALL LIGHT FIXTURES SUPPLIED	109 110	HEAT LAMP POS SYSTEMS (6)	120/1 120/1	4.4A 4.0A		HARDWIRE	KP2-23 KP2-60,62,64	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	66" 42"	D,H D,E,F,H
-	WITH EQUIPMENT.	110A 111	POS SYSTEMS (2) UTILITY OUTLET (2)	120/1 120/1	4.0A 20A CIRC.	5–20R GFCI		KP2-5 KP1-57	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	30" 30"	D,E,F,H D,E
Q.	STUB UP FROM FLOOR, INSIDE DIE WALL. WRE TO LIGHTS & JUNCTION BOXES LOCATED IN DIE WALL.	113 115	CHIPS WARMER (2) REACH IN REFRIGERATOR	120/1 120/1	8.7A EA. 2.0A	5-20R 5-20R		KP1-51,53 KP1-69	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	50" 24"	D,H D,H
К.	RUN CONTROL WIRING FROM "STOP SWITCH" TO DISHWASHER. VERIFY WITH SUPPLIER. SUPPLIED BY CHEMICAL COMPANY.	116 118	UTILITY OUTLETS (2) COFFEE BREWER (1)	120/1 120/208/1	20A CIRC. 30A CIRC.	5-20R L14-30R		KP1-63,65 KP1-(3,5)	1/2"C2 # 12 & 1 # 12G 1/2"C3 # 10 & 1 # 10G	50" 50"	D,E C,E
S.	MOUNT RECEPTACLE TO UNDERSIDE OF BAR TOP.	118A 119	COFFEE GRINDER TEA BREWER	120/1 120/208/1	20A CIRC. 30A CIRC.	5-20R L14-30R		KP1–59 KP1–(23,25)	1/2"C2 # 12 & 1 # 12G 1/2"C3 # 10 & 1 # 10G	50" 50"	D,E,H C,E
Т.	SEE EXHAUST HOOD WIRING DIAGRAM #1 ON HOOD DRAWINGS	120 126	SODA/ICE DISPENSER REACH IN FREEZER	120/1 120/1	4.0A 4.8A	5-20R 5-20R		KP1-67 KP2-13	1/2 °C2 # 12 & 1 # 12G 1/2 °C2 # 12 & 1 # 12G 1/2 °C2 # 12 & 1 # 12G	12" 24"	
V.	SEE WIRING DIAGRAM HOOD DRAWINGS	130 137	POS REGISTERS (2) WORKTOP REFRIGERATOR	120/1	4.0A EA. 2.8A	5-20R 5-20R		KP1-52 KP1-54	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VERIFY 18"	B,E,F,H D,H
₩.	WIRE TWO CONTROL WIRES FROM J.B ON ICE MAKER TO ROOF TOP REMOTE CONDENSER.	137 138 148	UNDERCOUNTER REFRIGERATOR WORK TOP FREEZER	120/1 120/1 120/1	2.8A 2.8A 5.0A	5-20R		KP1-58(TIE)	1/2"C2 # 12 & 1 # 12G	18" 18"	D,H D,H D,H
Х.	WIRE FROM EXHAUST FAN ON EXTERIOR ROOF TO WALL SWITCH. PROVIDE AND LOCATE WALL SWITCH PER PLAN.	149	CHIP WARMER	120/1	8.7A	5-20R 5-20R		KP1-58(TIE) KP1-64	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	24"	D,H D,H
v		152 154	GLASS WASHER FROZEN DRINK MACHINE	120/1 120/1	16.0A 13 A	5-20R	HARDWIRE	KP1-62 KP1-70	1/2"C2 # 12 & 1 # 12G 1/2"C2 # 12 & 1 # 12G	18" 24"	C D,H
τ.	CONNECT TO PANEL INSTALLED ON EQUIPMENT. UNCOIL FACTORY SUPPLIED WIRING AND CONNECT TO RECEPTACLES AND JUNCTION BOXES ALSO INSTALLED ON EQUIPMENT.	157	BACKBAR COOLERS (2)	120/1	4.2A EA.	5-20R		KP1-60	1/2"C2 # 12 & 1 # 12G	24"	D,H D,E
		161 174	UTILITY OUTLET (3) UTILITY OUTLETS	<u> </u>	20A CIRC. 20A CIRC.	5-20R GFCI 5-20R GFCI		KP1-56.44,46 KP1-66	1/2"C2 # 12 & 1 # 12G	36" 50"	D,E

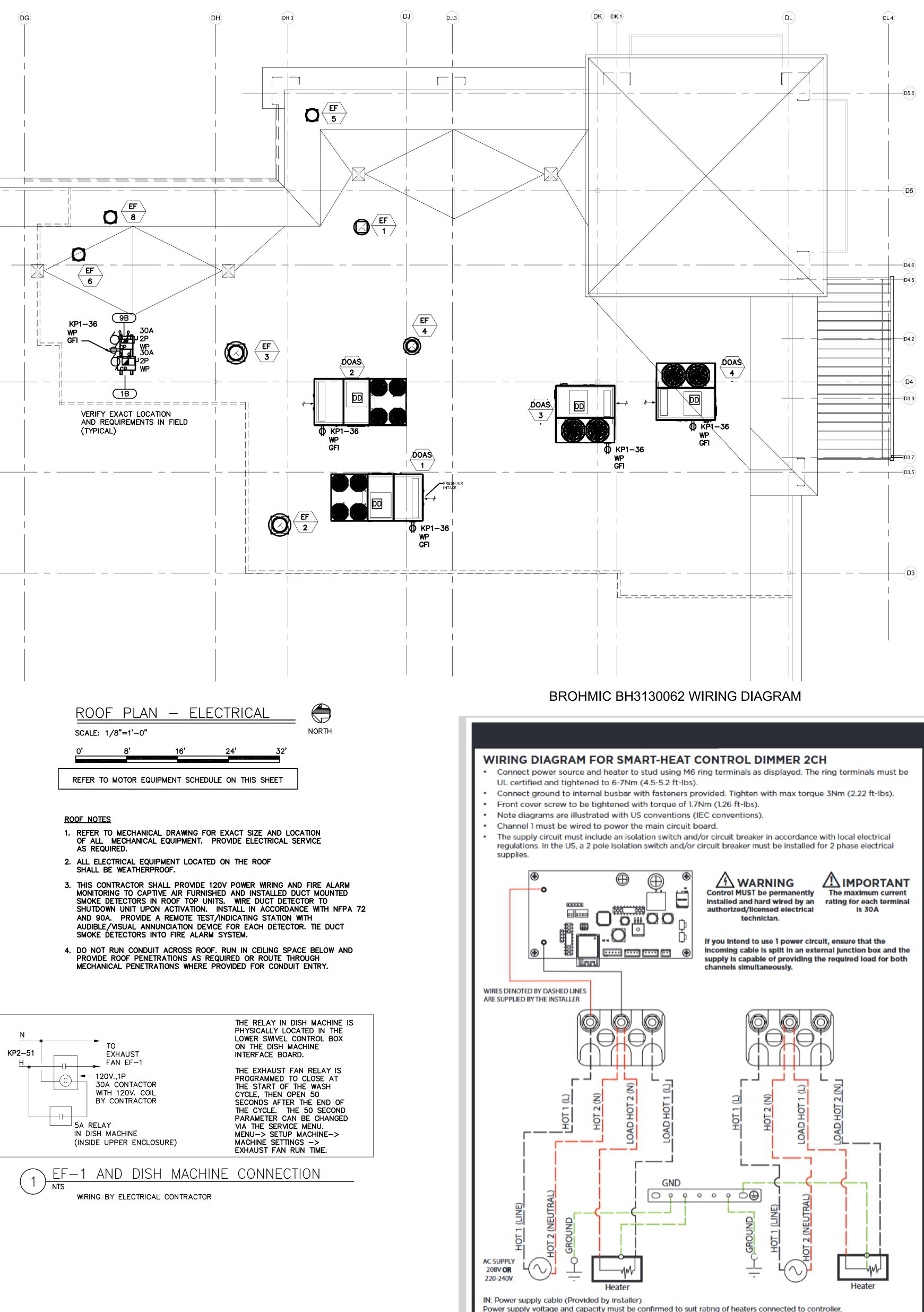


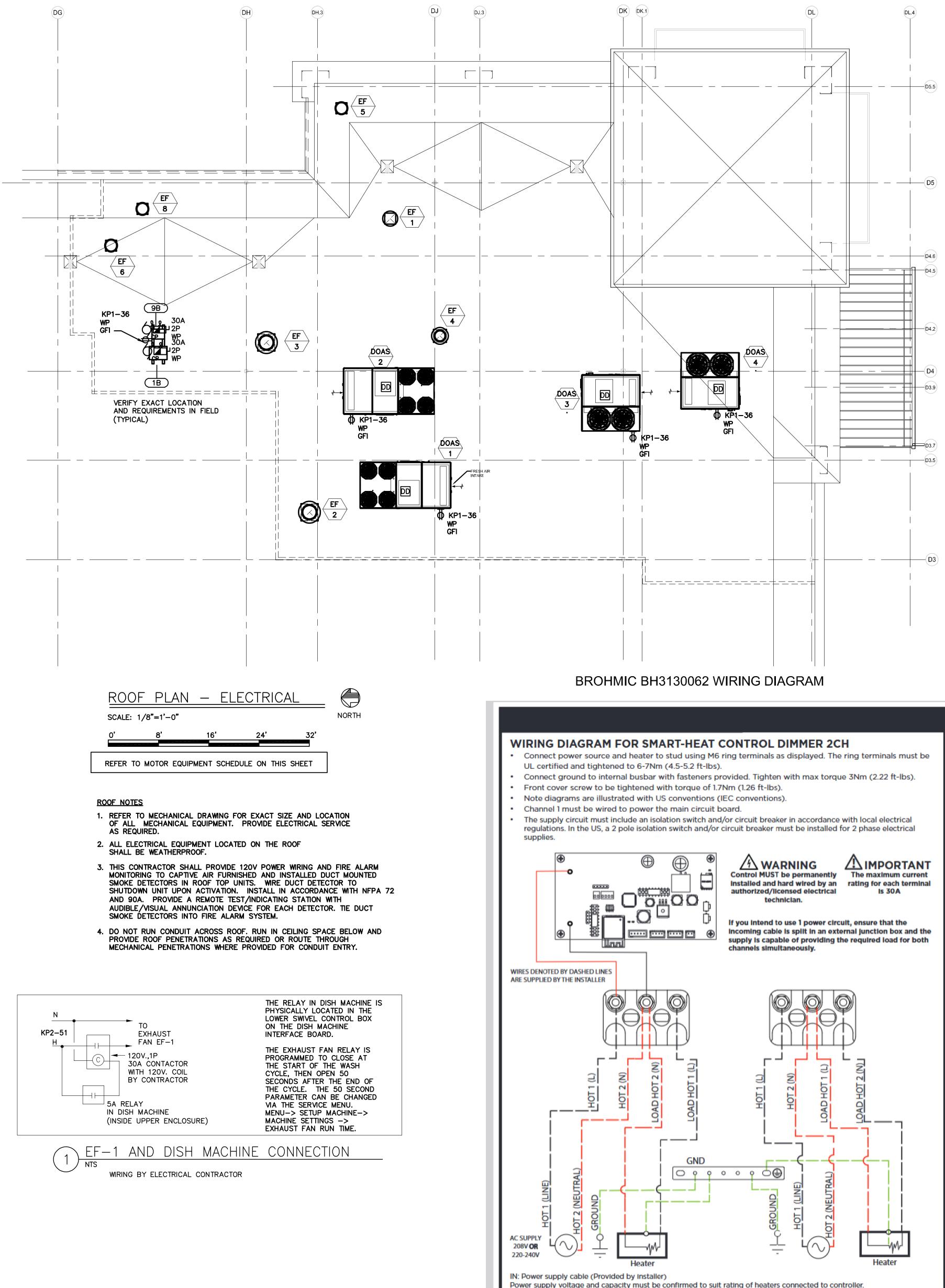
		ΜΟΤ	OR	/EC	UIF	PM	EN ⁻	ΓS	CH	IED	UL	E		
						CON	ITROL	DEV	CES			SIZE		
ITEM	EQUIPMENT DESIGNATION	MOTOR LOCATION	HP, WATTS OR AMPS	VOLTAGE & PHASE	2 N.O. & 2 N.C. AUXILIARY CONTACTS	SINGLE POLE THERMAL OVERLOAD SWITCH	off-auto Ilot Light Ver		DUCT MOUNTED SMOKE DETECTOR IN SUPPLY	DUCT MOUNTED SMOKE DETECTOR IN RETURN	PACKAGED CONTROLLER	CONDUIT, WIRE AND POWER SOURCE	DISCONNECT SWITCH BY E.C.	REMARKS
DOAS 1	KITCHEN ROOF TOP DOAS UNIT 1	ROOF	92.7 MCA	480V 3PH	-	_	_	-	EE	EE	МЕ	HP1-(1,3,5) 1 1/4"C 3 # 2 & 1 & 8 GROUND	SEE NOTE # M11	PROVIDE 120V CONVENIENCE RECEPT. 100A MOCP
DOAS 2	KITCHEN ROOF TOP DOAS UNIT 2	ROOF	92.7 MCA	480V 3PH	_	-	-	-	EE	EE	ME	HP1-(7,9,11) 1 1/4"C 3 # 2 & 1 & 8 GROUND	SEE NOTE # M11	PROVIDE 120V CONVENIENCE RECEPT. 100A MOCP
DOAS 3	DINING ROOM ROOF TOP DOAS UNIT 3	ROOF	38.4 MCA	480V 3PH	-	-	-	-	EE	EE	ME	HP1-(13,15,17) 3/4"C. 3 # 6 & 1 & 10 GROUND	SEE NOTE # M11	PROVIDE 120V CONVENIENCE RECEPT. 40A MOCP
DOAS 4	DINING ROOM ROOF TOP DOAS UNIT 4	ROOF	38.4 MCA	480V 3PH	-	-	-	-	EE	EE	ME	HP1-(19,21,23) 3/4"C. 3 # 6 & 1 & 10 GROUND	SEE NOTE # M11	PROVIDE 120V CONVENIENCE RECEPT. 40A MOCP
	EXHAUST FAN	ROOF	1/2 HP	120V 1PH	-	-	-	_	_	-	_	KP2-51 1/2"C. 2 # 12 & 1 & 12 GROUND	ме	6.3 FLA, SEE NOTE M10
EF 2	EXHAUST FAN	ROOF	3 HP	480V 3PH	-	-	-	-	-	-	-	HP1-(37,39,41) 1/2"C. 3 # 12 & 1 & 12 GROUND	ME	WIRE TO HOOD CONTROL PANEL REFER TO CAPTIVAIRE DRAWINGS
EF 3	EXHAUST FAN	ROOF	2 HP	480V 3PH	-	-	-	-	-	-	-	HP1-(43,45,47) 1/2"C. 3 # 12 & 1 & 12 GRUND	ME	WIRE TO HOOD CONTROL PANEL REFER TO CAPTIVAIRE DRAWINGS
EF 4	EXHAUST FAN	ROOF	3/4 HP	480V 3PH	_	-	-	-	-	-	-	HP1-(8,10,12) 1/2"C. 3 # 12 & 1 & 12 GROUND	ME	WIRE TO HOOD CONTROL PANEL REFER TO CAPTIVAIRE DRAWINGS
EF 5	EXHAUST FAN	FIRST FLOOR WOMEN'S RR	ΗP	120V 1PH	_	-	-	-	-	-	-	LP1-21 1/2"C. 2 # 12 & 1 # 12 GROUND	20A 1P	WIRE THRU LIGHTING RELAY TO OPERATE WHEN BUILDING OPEN
EF 6	EXHAUST FAN	FIRST FLOOR MEN'S RR	HP	120V 1PH	-	-	-	-	-	-	-	LP1-21 1/2"C. 2 # 12 & 1 # 12 GROUND	20A 1P	WIRE THRU LIGHTING RELAY TO OPERATE WHEN BUILDING OPEN
EF 7	EXHAUST FAN	FIRST FLOOR MOP SINK	42 W	120V 1PH	-	-	-	-	-	-	-	LP1-23 1/2"C. 2 # 12 & 1 # 12 GROUND LP1-23	20A 1P	WIRE THRU LIGHTING RELAY TO OPERATE WHEN BUILDING OPEN
EF 8	EXHAUST FAN	ELEC ROOM ROOF	1/4 HP	120V 1PH	-	-	-	-	_	-	-	1/2"C. 2 # 12 & 1 # 12 GROUND	20A 1P	THERMOSTATIC CONTROL
(RH) (1-6)	ELECTRIC HEATER ON PATIO	ΡΑΠΟ	6 KW	277V 1PH								SEE PLAN HP1-25,27,29,31,33,35 3/4"C 5 # 8 & 1 # 8 GROUND (3 SETS)	30A 1P WP EACH	SEE NOTE # M12
EWUH 1	ELECTRIC WALL UNIT HEATER	EMPLOYEE RR MEN	4.8 KW	277V 1PH	-	EE	-	-	-	-	-	HP1-26 3/4"C. 2 # 10 & 1 & 10 GROUND	30A 1P	
EWUH 2	ELECTRIC WALL UNIT HEATER	SPRINKLER ROOM	4.8 KW	277V 1PH	-	EE	-	-	-	-	_	HP1-28 3/4"C. 2 # 10 & 1 & 10 GROUND	30A 1P	
	ELECTRIC CEILING UNIT HEATER	CARRY OUT	4 KW	277V 1PH	-	EE	-	_	_	_	_	HP1-30 3/4"C. 2 # 10 & 1 & 10 GROUND	30A 1P	
	RECIRUCLATION PUMP	KITCHEN	1/8 HP	120V 1PH	_	EE	_	_	_	-	_	KP2-43 3/4"C. 2 # 12 & 1 & 12 GROUND	20A 1P	1.76 A
	WATER HEATER	KITCHEN	5 A	120V 1PH	-	EE	-	-	_	-	_	KP2-70 3/4"C. 2 # 12 & 1 & 12 GROUND	20A 1P	
WH 2	WATER HEATER	KITCHEN	5 A	120V 1PH	_	EE	-	-	_	-	-	KP2-72 3/4"C. 2 # 12 & 1 & 12 GROUND	20A 1P	

MOTOR SCHEDULE NOTES:

- M1. REFER TO MECHANICAL DRAWINGS FOR EXACT SIZE, LOCATION, AND ELECTRICAL REQUIREMENTS FOR ALL MOTORS AND MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- M2. 'ME' DENOTES EQUIPMENT FURNISHED UNDER DIVISION 15; INSTALLED AND WIRED UNDER DIVISION 16.
- M3. 'EE' DENOTES EQUIPMENT FURNISHED, INSTALLED AND WIRED UNDER DIVISION 16.
- M4. VERIFY CONTROL REQUIREMENTS OF ALL 3 PHASE MOTORS WITH MECHANICAL AND CONTROL CONTRACTORS. ALL MOTORS STARTED BY AUTOMATIC DEVICES OR INTERLOCKED TO START WITH OTHER MOTORS SHALL BE PROVIDED WITH HAND-OFF-AUTO SELECTOR SWITCHES. ALL MOTORS WITH MANUAL CONTROL ONLY SHALL BE PROVIDED WITH STOP-START PUSHBUTTONS.
- M5. CONTROL PANEL (INCLUDING STARTERS, ALARMS, ETC.) AND INTERLOCK CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. POWER WIRING SHALL BE PROVIDED BY THIS CONTRACTOR.
- M6. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECT, GENERAL CONTRACTOR, ETC. AND WORK OF ALL OTHER TRADES. M7. 'AE' DENOTES EQUIPMENT FURNISHED BY ACCUREX, INSTALLED BY MECHANICAL
- CONTRACTOR AND WIRED ELECTRICAL CONTRACTOR.
- M8. WIRE THROUGH HOOD CONTROL PANEL, REFER TO MECHANICAL AND HOOD VENDOR DRAWING FOR EXACT WIRING REQUIREMENTS.
- M9. DISCONNECT SWITCH FURNISHED AND INSTALLED ON ACCUREX EQUIPMENT, EC TO PROVIDE FINAL CONNECTION.
- M10. DISH FAN EXHAUST. WIRE THRU CONTACTS ON DISH MACHINE TO RN WHEN DISH MACHINE IS ACTIVE. SEE DETAIL 1, THIS SHEET. M11. NEW RTUS FURNISHED BY CAPTIVE AIR, INSTALLED BY MECHANICAL CONTRACTOR
- AND WIRED BY ELECTRICAL CONTRACTOR. FURNISHED WITH DISCONNECT. EC TO PROVIDE ALL INTERLOCK AND CONTROL WIRING. REFER TO CAPTIVE AIR DRAWINGS IN MECHANICAL SET FOR INTERLOCK REQUIREMENTS.
- M12. CONTRACTOR SHALL FURNISH AND INSTALL (6) BROMIC HEATING # BH042033 277V 1PH TUNGSTEN HEATERS MOUNTED AT 10' AND SUSPENDED FROM STRUCTURE ABOVE. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS. ENSURE 3' CLEARANCE FROM ALL LIGHTING FIXTURES, FAN BLADES, SPRINKLER HEADS AND OTHER WALL OR CEILING ELEMENTS, PROVIDE BROMIC BH0420033-277V TUNGSTEN ELECTRIC 6000W HEATER BLACK (277V) @ 21.7 A EACH (6 TOTAL) PROVIDE (3) BROMIC BH3130062 2 CHANNEL DIMMER CONTROL

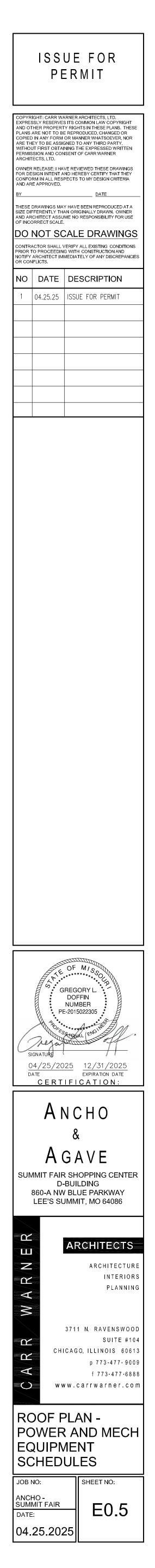
WITH APP CONTROL. REFER TO WIRING DIAGRAM THIS SHEET. MOUNT EACH CONTROLLER WITHIN 30'.



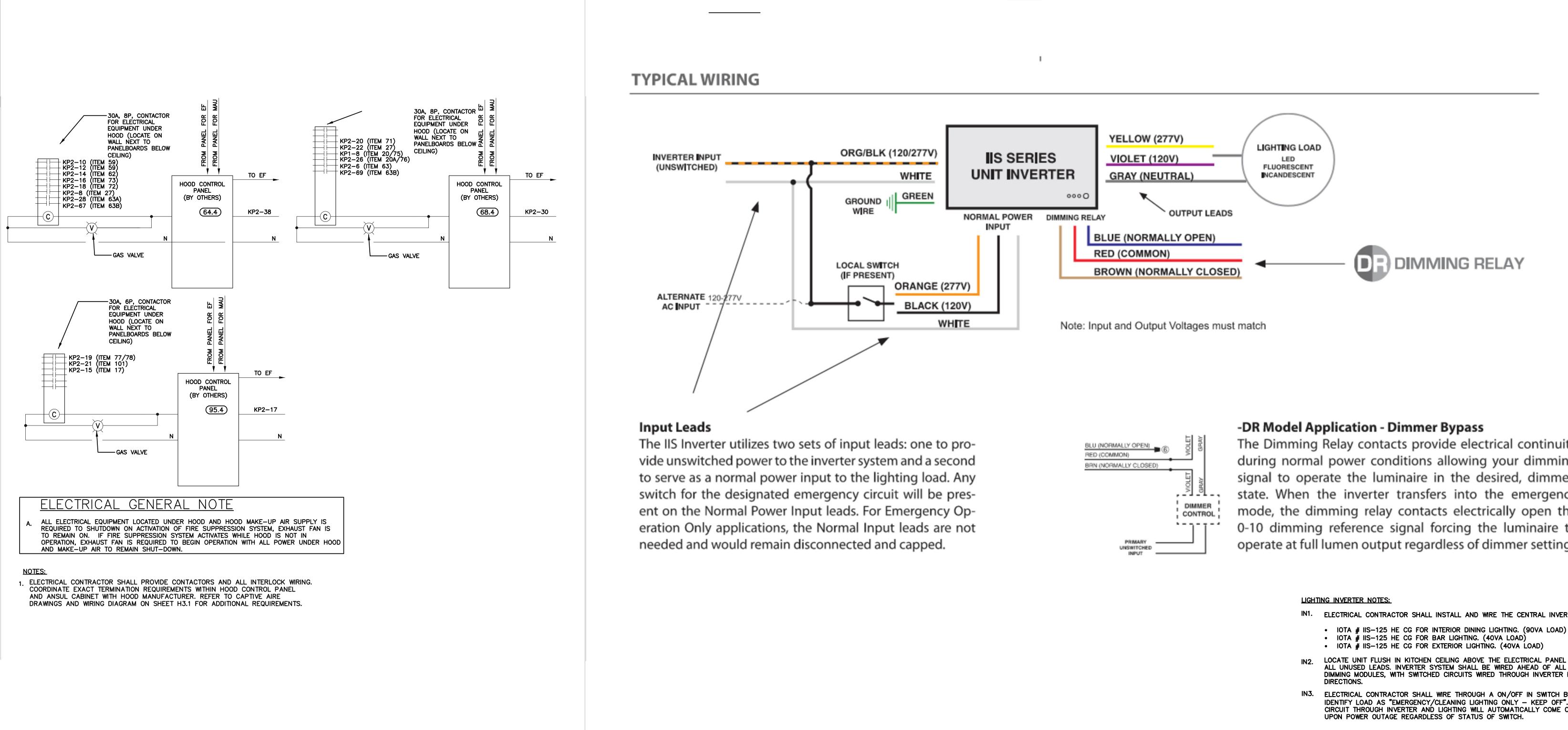


Power supply voltage and capacity must be confirmed to suit rating of heaters connected to controller. OUT: Power cable from heater Check the heater type, rating, load distribution, and the maximum amperage capacity per controller channel (6kW per

channel/refer to page 15 of manual). Tighten cable glands with torque of 8Nm (6 ft-lbs).



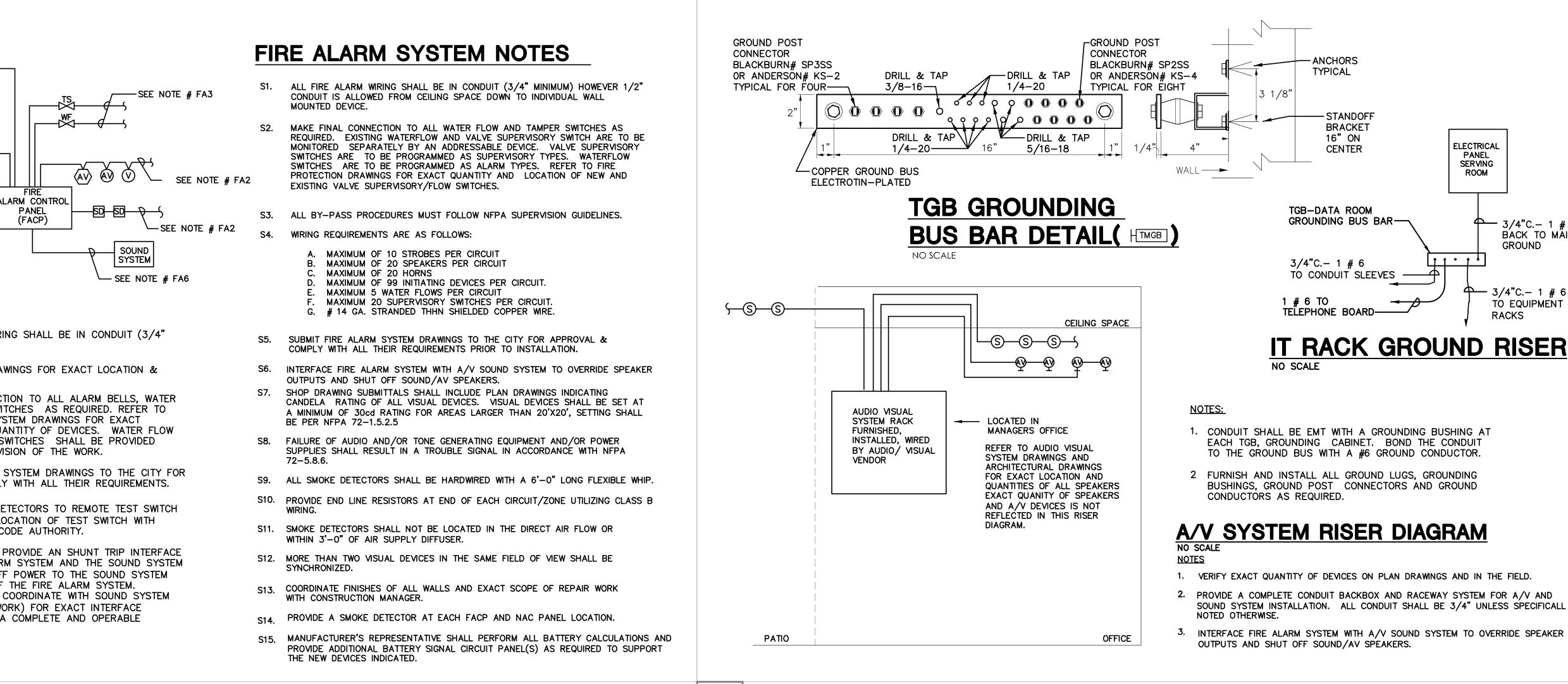
SEE NOTE ; SEE NOTE # FA5 SEE NOTE # FA5 SEE NOT	
LP1-22 120V POWE REFER TO PLAN	
FIRE	ALARM RISER NOTES:
FA1.	ALL FIRE ALARM WIRIN MINIMUM).
FA2.	REFER TO PLAN DRAV QUANTITY.
FA3.	MAKE FINAL CONNECT FLOW & TAMPER SWIT FIRE PROTECTION SYS LOCATION AND QUA SWITCHES, TAMPER SW UNDER ANOTHER DIVIS
FA4.	SUBMIT FIRE ALARM S APPROVAL & COMPLY
FA5.	WIRE DUCT SMOKE DE (RTS) COORDINATE LO OWNER AND LOCAL CO
FA6.	CONTRACTOR SHALL P FROM THE FIRE ALARM TO MUTE / TURN OFF UPON ACTIVATION OF CONTRACTOR SHALL C VENDOR (PLAY NETWO REQUIREMENTS FOR A OVERRIDE SYSTEM.
	RE ALARM



EXHAUST HOOD SHUT-DOWN WIRING DIAGRAM NOT TO SCALE

> FN:E0.6-ELECTRICAL DETAILS ANCHO SUMMIT JN: H: \25041.01

SF: 1.00 JC

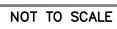


SYSTEM DETAILS AND NOTES

INVERTER DETAILS

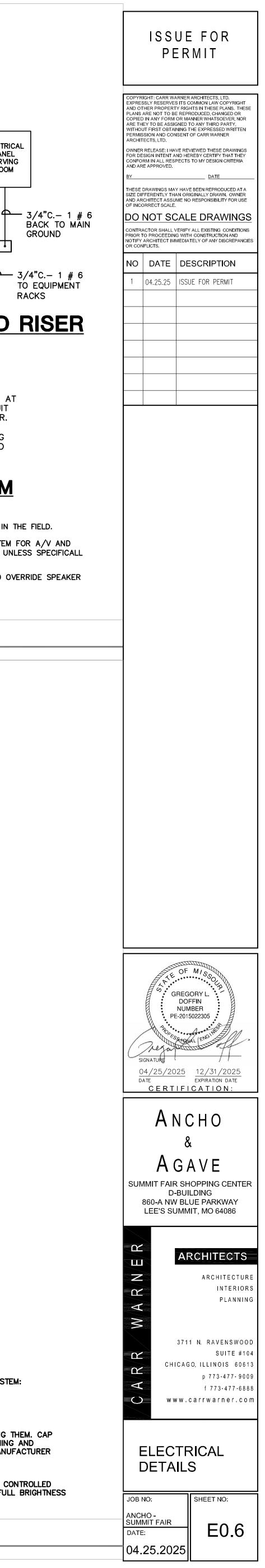
NOT TO SCALE

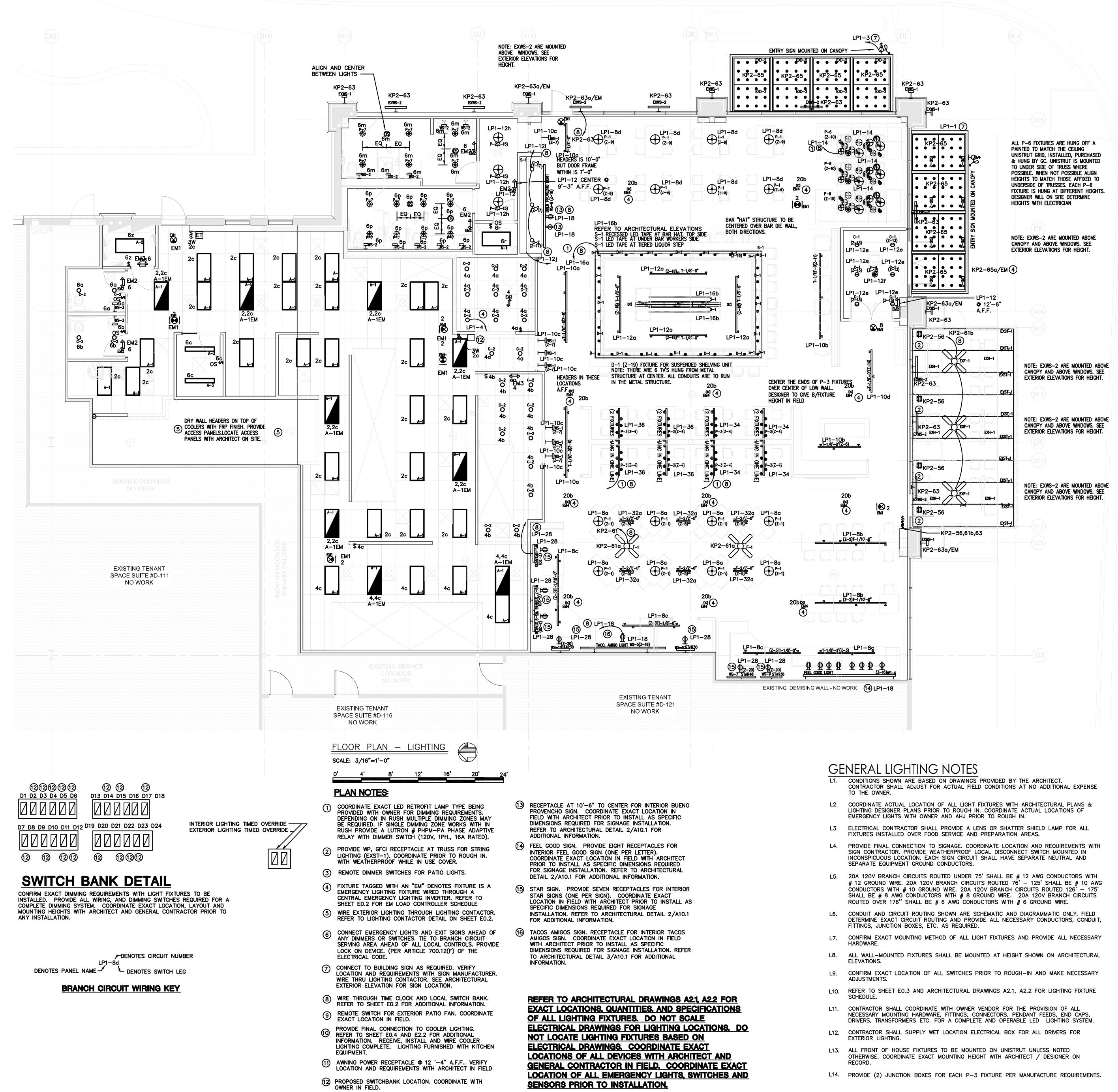
2 AUDIO / VISUAL RISER AND IT GROUNDING DETAILS

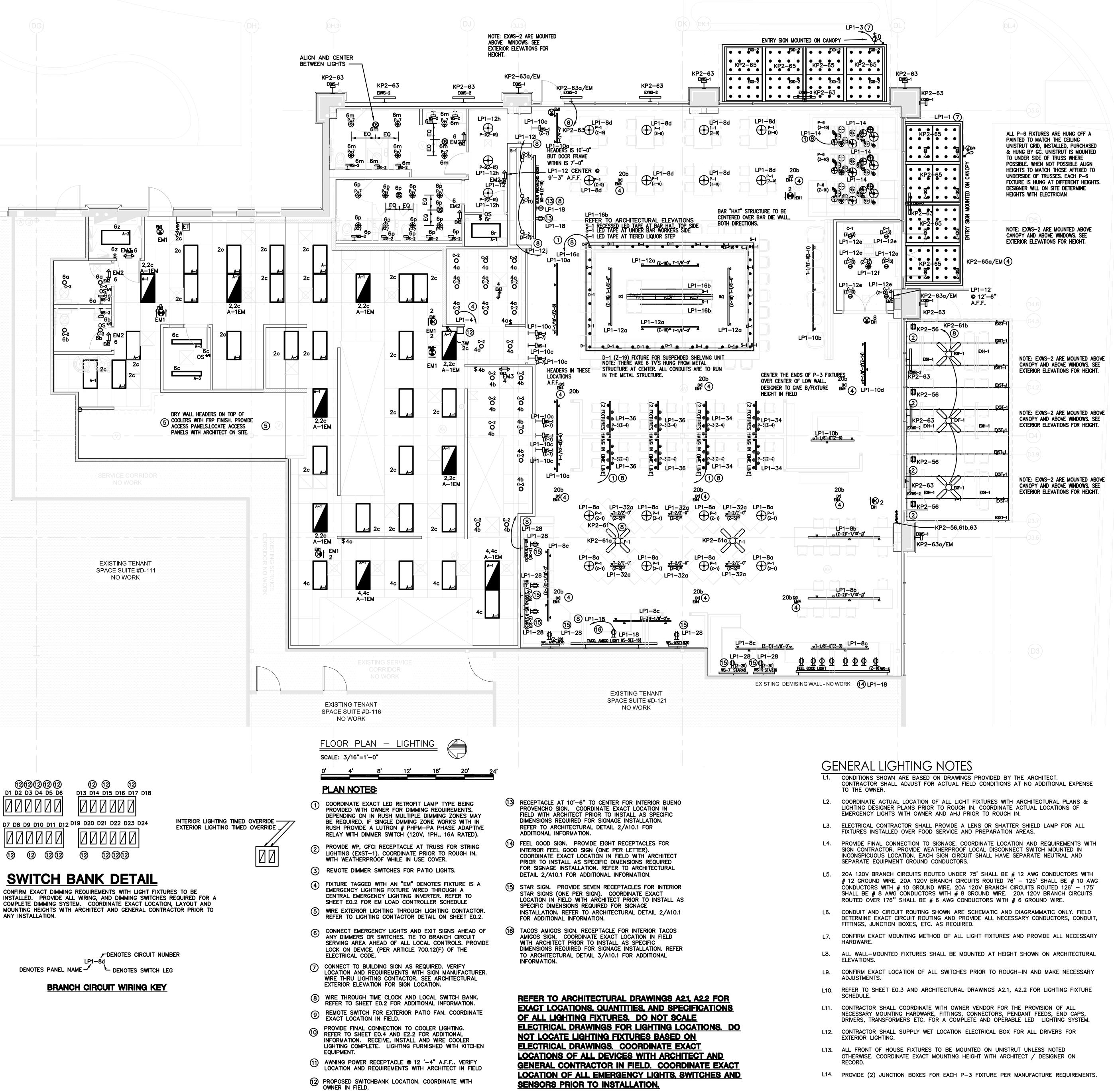


The Dimming Relay contacts provide electrical continuity during normal power conditions allowing your dimming signal to operate the luminaire in the desired, dimmed state. When the inverter transfers into the emergency mode, the dimming relay contacts electrically open the 0-10 dimming reference signal forcing the luminaire to operate at full lumen output regardless of dimmer setting.

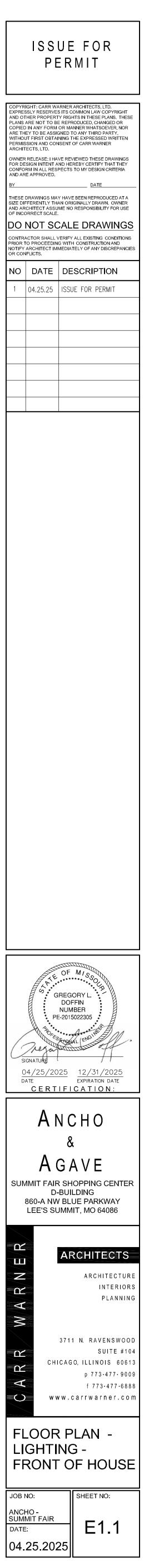
- IN1. ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE THE CENTRAL INVERTER SYSTEM:
- IN2. LOCATE UNIT FLUSH IN KITCHEN CEILING ABOVE THE ELECTRICAL PANEL SERVING THEM. CAP ALL UNUSED LEADS. INVERTER SYSTEM SHALL BE WIRED AHEAD OF ALL SWITCHING AND DIMMING MODULES. WITH SWITCHED CIRCUITS WIRED THROUGH INVERTER PER MANUFACTURER
- IN3. ELECTRICAL CONTRACTOR SHALL WIRE THROUGH A ON/OFF IN SWITCH BANK IDENTIFY LOAD AS "EMERGENCY/CLEANING LIGHTING ONLY - KEEP OFF". WIRE CONTROLLED CIRCUIT THROUGH INVERTER AND LIGHTING WILL AUTOMATICALLY COME ON TO FULL BRIGHTNESS

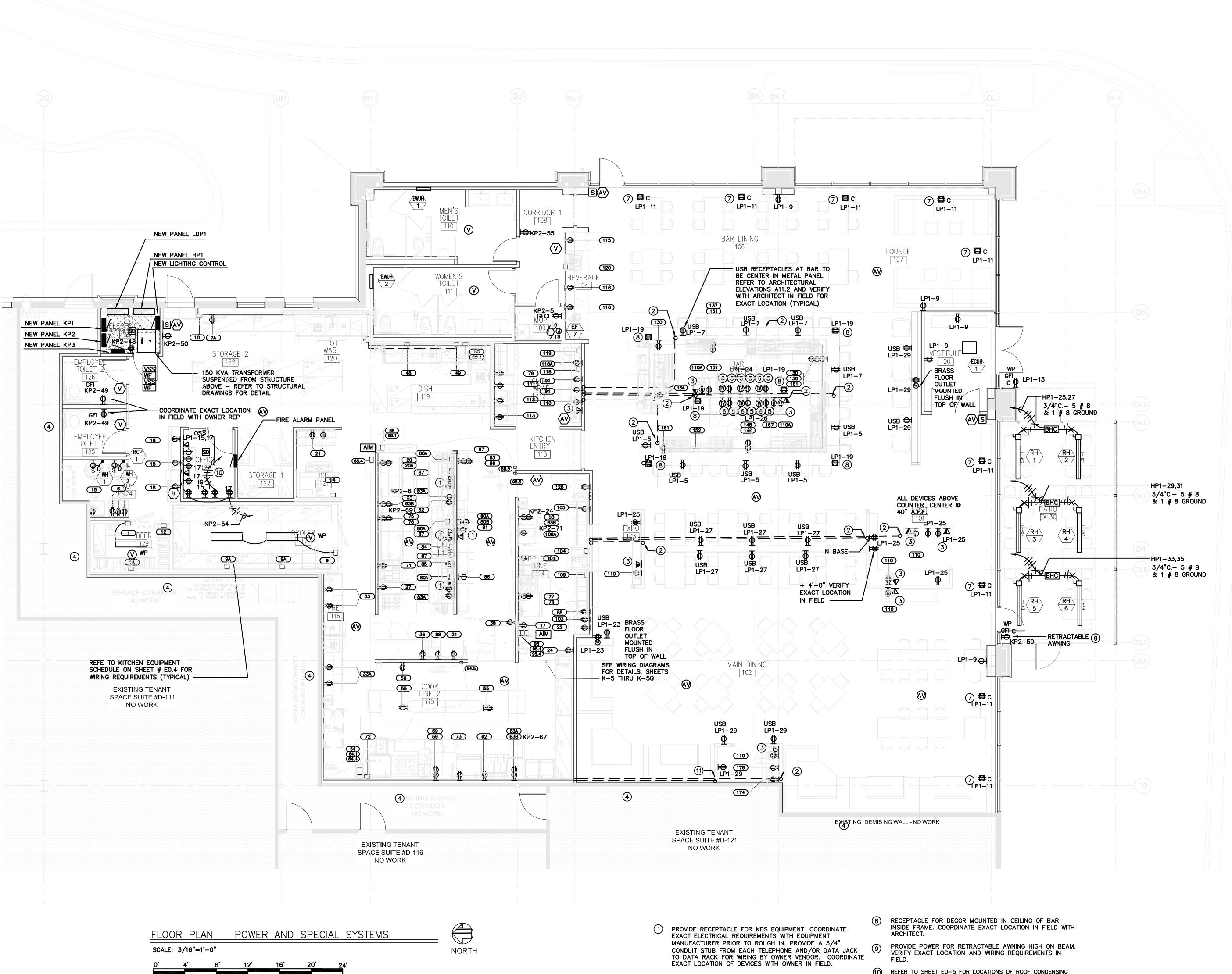






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ALL BAR AND KITCHEN RECEPTACLES SHALL BE GFCI PROTECTED PROVIDE GFCI PROTECTION IN ACCORDNANCE WITH 2017 NEC 210.8(B) ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE FOLLOWING LOCATIONS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

(1) BATHROOMS, (2) KITCHENS. (3) ROOFTOPS EXCEPTION: RECEPTACLES ON ROOFTOPS SHALL NOT BE REQUIRED TO BE READILY ACCESSIBLE OTHER THAN FROM THE ROOFTOP. (4) OUTDOORS, (5) SINKS - WHERE RECEPTACLES ARE INSTALLED WITHIN 1.8 M (6 FT) FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK, (6) INDOOR WET LOCATIONS

GENERAL NOTES:

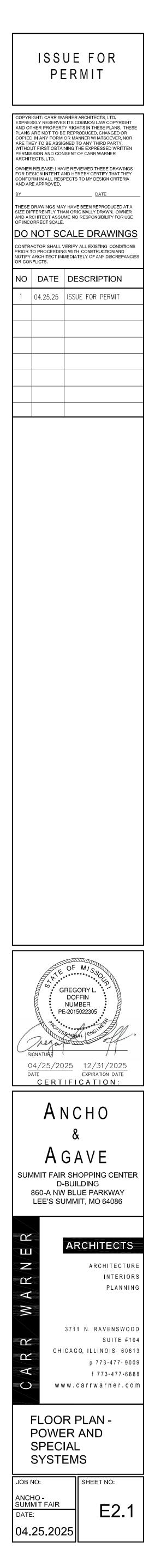
REFER TO GENERAL NOTES LOCATED ON SHEET # E0.1

- 2 LOW HEIGHT WALL PROVIDE IN SLAB POWER (3/4"C) AND DATA RACEWAYS (1 1/4"C) TO THIS LOCATION. COORDINATE EXACT LOCATION OF DEVICES WITH OWNER IN FIELD.
- PROVIDE RECEPTACLE FOR POS EQUIPMENT. COORDINATE 3 PROVIDE RECEPTAGLE FOR FOS LOON MELTER MANUFACTURER PRIOR TO ROUGH IN. PROVIDE A 3/4" CONDUIT STUB FROM EACH TELEPHONE AND/OR DATA JACK TO DATA RACK FOR WIRING BY OWNER VENDOR. COORDINATE EXACT LOCATION OF DEVICES WITH OWNER IN FIELD.
- 4 PROVIDE FIRE WRAP OF BOXES IN DEMISING WALL AND FIRE STOP CONDUIT PENETRATIONS.
- PROVIDE DUPLEX RECEPTACLE FOR TELEVISION LOCATION. 5 COORDINATE IN THE FIELD. PROVIDE ALL BACK BOXES AND EMPTY CONDUITS REQUIRED BY TELEVISION VENDOR FOR A COMPLETE SYSTEM. FEED FROM ABOVE
- RECEPTACLE AND EMPTY JUNCTION BOX WITH PULL 6 STRING MOUNTED TO TELEVISION SUPPORT POST.
- PROVIDE SHOW WINDOW DUPLEX RECEPTACLE AT NO MORE $\overline{7}$ THAN 18" ABOVE WINDOW. ROUTE CIRCUIT THROUGH TIMECLOCK CONTROLLED CONTACTOR.

10 REFER TO SHEET EO-5 FOR LOCATIONS OF ROOF CONDENSING UNITS FOR WALK IN REFRIGERATION.

GENERAL NOTES

- . CONTRACTOR TO RUN POWER TO ROOF TOP EQUIPMENT AND RECEPTACLES. REFER TO MECHANICAL PLANS FOR LOCATIONS.
- ELECTRICAL CONTRACTOR SHALL VERIFY DIMENSIONAL LOCATIONS FOR OUTLETS WITH KITCHEN SHEETS PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FOR FIRE ALARM DEVICES AS REQUIRED.
- D. ALL RECEPTACLES IN KITCHEN AREA SHALL BE LABELED FOR INTENDED EQUIPMENT USE. LABELS SHALL BE PERMANENTLY AFFIXED. REFER TO ELECTRICAL ROUGH-IN SCHEDULE AND KITCHEN PLANS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR DINING AREA WIRING DEVICE MOUNTING HEIGHTS AND LOCATIONS.
- 20A 120V BRANCH CIRCUITS ROUTED UNDER 75' SHALL BE # 12 AWG CONDUCTORS WITH # 12 GROUND WIRE. 20A 120V BRANCH CIRCUITS ROUTED 76' - 125' SHALL BE # 10 AWG CONDUCTORS WITH # 10 GROUND WIRE. 20A 120V BRANCH CIRCUITS ROUTED 126' - 175' SHALL BE # 8 AWG CONDUCTORS WITH # 8 GROUND WIRE. 20A 120V BRANCH CIRCUITS ROUTED OVER 176" SHALL BE # 6 AWG CONDUCTORS WITH # 6 GROUND WIRE.
- . COORDINATE ALL TRENCHING WITH GC TO MINIMIZE FLOOR SLAB CUTTING AND PATCHING



DIVISION 16 - ELECTRICAL SECTION 16010 GENERAL PROVISIONS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

A. The General Conditions, Supplementary Conditions, and General Requirements apply to the Work specified in this

1.02 DESCRIPTION

- A. This Section defines the General Provisions which are common to all Sections of Division 16. B. The information in the Specifications and the Plan Drawings are basic facts to follow in determining a reasonable and competitive price for the disciplines intended. The Drawings and Specifications do not necessarily indicate o describe each item necessary for the full performance and completion of the particular work the contractor may be bidding. These documents provide the general intent necessary to inform the contractor of the Owner's desire for the systems required for Electrical. Contractor shall visit the site prior to bidding to become familiar with the existing conditions under which the work shall be performed. Failure to inspect the site will not be considered justification for an adjustment in contract price or failure to perform the work under this contract. C. Work Included:
- All electrical work herein specified and/or shown on Drawings unless noted otherwise. 2. Installation shall be complete from location designated by the Electric Utility Company as point o
- service connection, to the final connection of motors, fixtures, devices, apparatus or pieces of equipment, unless modified by Drawings or these Specifications. The Electrical Drawings and Specifications shall be understood to cover complete operating system. The
- Drawings and Specifications are to be taken together. Work specified and not shown, or Work shown and not specified shall be performed or furnished as though mentioned in both Drawings and Specifications. Minor items and accessories reasonably inferred as
- necessary to the complete and proper operation of any system, shall be provided by this Contractor or Subcontractor for such systems. D. Description of Systems:
- Complete power wiring from existing landlord utility/wiring to panels, motorized equipment, motors, equipment cabinets, and miscellaneous outlets. 2. General wiring for power, lighting, and miscellaneous
- Materials and equipment for electrical work. Motor and equipment wiring.
- General and emergency lighting and power systems. Wiring of equipment furnished by others. Motor and equipment, including Starters if required.
- Empty conduit stubs and backboxes for telephone
- complete and operable fire alarm system. Power and empty conduit system and backboxes for
- Owners security system. 11. Power and empty conduit system and backboxes for
- Owners computer system. 12. All other equipment, material, devices, accessories
- required and/or shown on the Drawings. 13. Arrange for sources of temporary construction services. Such services shall be nominally 120/208 volt, 3 phase, 4 wire from which a complete system of temporary power and lighting shall be installed for all construction needs and as required by the occupational safety and health departments. (OSHA) Temporary services shall be removed upon completion of
- 14. Cutting, patching, excavation and backfill and concrete work required to complete the work of this section. Backfill shall be compacted to 95% of standard compaction. All existing surfaces shall be patched or replaced to "Like New" conditions.
- E. Related work to be completed by others: Telephone system wiring.
- Computer system wiring. Temperature controls and thermostat wiring.
- Definitions As used within the Contract Documents:
- . The term "Contractor" shall be understood to mean the Electrical Contractor or Electrical Subcontractor. "Circuitry" shall mean any electric work (not limited to light and power distribution) which consists of wires, cables, raceways, and/or specialty wiring method assemblies taken all together complete with associated junction boxes, pull boxes, outlet boxes, joints, couplings, splices and connections, except where limited to a lesser meaning by specific
- 3. "Wiring" shall mean the same as Circuitry. 4. "Package Unit" shall mean an item of equipment having one or more motors or other electric energy consuming elements integrally factory mounted on a single base, complete with all associated control devices and
- interconnecting wiring. "Normal Electric Work Conditions" means locations within building confines which are neither damp, wet, nor hazardous, and which are not used for air
- "Raceway" shall mean any pipe, duct, extended enclosed, or conduit (as specified for a particular
- system) which is used to contain wires, and which is of such nature as to require that the wires be installed by a "pulling in" procedure.
- "Concealed" (as applied to circuitry) means covered completely by building materials, except for penetrations(by boxes or fittings) to a level flush with the surface as necessitated by functional or specified accessibility requirements. Unless directed otherwise, all outlet boxes in walls are to be
- concealed G. Fees and Permits: Obtain all permits and pay all inspection fees required for the complete electrical system.
- 1.03 QUALITY ASSURANCE A. Qualifications:
 - Only new products will be acceptable unless otherwise The Electrical Contractor and his Subcontractors shall 2
 - only employ workmen who are skilled in their respective trades.
 - 3. All equipment, material, fixtures, devices, articles, accessories or products included in the Contract shall be of the exact make, model or catalog number, size, form and of the characteristics specified.
- B. Reauirements of Regulatory Agencies: 1. All electrical work shall be in accordance with the 2017 National Electrical Code (N.E.C.), and all local
- ammendments, and other governing bodies which have jurisdiction over this project.
- 2. Where applicable, all fixtures, equipment and materials shall be as approved or listed by the following agencies:
 - a. Factory Mutual Laboratories.
 - National Fire Protection Association. Underwriters Laboratories, Inc. (UL)
 - National Electrical Manufacturers Association (NFMA)
- Americans with Disabilities Act (ADA) Allowable Tolerances: 1. Review Architectural, Structural and Mechanical
- Drawings for all dimensions, locations, partitions and walls, structural details, and location of mechanical
- pipes and ducts so that the electrical installation shall be in harmony with that of the other trades Exact size, location, and electrical requirements of equipment furnished by other trades and wired by this Contractor shall be obtained from the Drawings of the
- other trades

1.08 GUARANTEE

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- 1.04 SUBMITTALS A. Shop drawings for all fixtures, equipment, materials, etc., shall be submitted as specified in Division 1.
 - Installation, maintenance and operating manuals and
- instructions for all equipment shall be provided as
- specified in Division 1
- 1.05 APPROVAL DRAWINGS Prepare and submit for approval to local code authorities
- such additional electrical drawings, diagrams, and
- specifications as are required by: Local Fire Prevention Bureau
- Local Building Department Electrical Inspection
- Section
- Local Utility Company Metering Department
- 1.06 EXAMINATION OF THE SITE
- A. All Contractors submitting proposals for this work are requested to visit the existing site. Failure to visit the existing site will in no way relieve the successful bidder

Exercise care in transporting and handling to avoid damage

Keep fixtures, equipment and materials clean, dry and free

Store materials on the site so as to prevent damage.

Where items of electrical equipment and/or materials are

installation with Contractor providing equipment.

Provide one year guarantee for all fixtures, equipment.

furnished by others for installation by Electrical

Contractor, Electrical Contractor will be held responsible

the delivery truck. He shall check equipment and/or

for the unloading of such equipment and/or materials from

materials upon receipt and notify party furnishing item of

any damaged or missing equipment. He shall coordinate

materials and workmanship, upon final acceptance by Owner.

FN: E3.0 ELECTRICAL SPECS ANCHO SUMMI

in accordance with Drawings and Specifications without

- from the necessity of furnishing any materials or

to fixtures, equipment and materials.

- performing any work that may be required to complete work

additional cost to the Owner.

1.07 PRODUCT DELIVERY. STORAGE, AND HANDLING

from deleterious conditions.

-		
3. PART 2 – PRODUCTS	Flexible conduit shall be heavy duty steal Greenfield type except, where exposed to oil, grease, or water — then conduit shall be Sealtite.	i. Where conduit passes through floors or through smoke and fire walls, space between conduit and floor or wall shall be filled with cement grout.
2.01 MATERIALS A. Refer to individual Sections of Division 16.	 Plastic conduit shall be PVC Schedule 40. Conduit Fittings: 	j. Radius of bends shall be not less than six(6) times internal diameter. Any run of conduit shall not include more than the equivalent of four(4) quarter bends.
PART 3 – EXECUTION 3.01 INSTALLATION/APPLICATION/PERFORMANCE/ERECTION	a. Rigid & IMC: Threaded. b. Thin—Wall: Compression Type. c. Flexible: Connectors shall be compatible with	k. Provide expansion fittings for all conduits at expansion joints. 2. Cutting Conduit: a. Measure and cut conduit from job site conditions,
A. Excavating and Backfilling: 1. The Electrical Contractor shall do all excavating and backfilling reguired for the installation of any and	flexible conduit used. 6. Conduit shall be as manufactured by Allied, National	not from Drawings. b. Conduit shall be cut square and butted solidly
all parts of his work requiring excavation. He shall also do all sheathing and bracing required for the	Electric, Republic or Triangle. 7. Flexible liquid tight conduit as manufactured by Anaconda, Simplex, or International Metal Hose.	into fittings. c. On rigid conduit, cut conduit full and clean with
installation of his work. He shall provide and operate pumping equipment, if required, to keep the trenches	 Provide an insulating bushing for all conduits containing #4 and larger wire as well as all conduits 	sharp dies. Ream ends of pipe after cutting and before assembly to remove burrs. d. Ream thin—wall conduit (EMT) after it is cut.
free of standing water. All work shall comply with requirements given architectural specifications. 2. The above shall include all excavation of every	1" and larger regardless of the size wire they contain.	3. Liquid Tight and Flexible Conduit: a. Liquid tight flexible conduit shall be installed
character, including rock, if encountered. Contractor shall visit the premises and determine for himself, by	B. Wires and Cables: 1. All wire shall be type THHN/THWN copper. 2. Wire shall be stranded or solid where required by system	in such a manner that liquids tend to run off the surfaces and not drain toward the fittings. b. All runs of flexible conduit shall be as short as
actual observations, boring, or other means, the nature of the soil conditions. The cost of all such inspections, boring, etc., shall be borne by the	 anufacturer. Where light fixtures are wired in continuous rows, 	practicle (maximum of 6'), of the same size as the conduit it extends and with enough slack to
Contractor. 3. All excavations are to be so conducted that no walls	wire pulled through fixtures shall be type SF2. 4. Final connections to heating equipment where shown,	reduce the effects of vibration. A minimum of 24 inches of flexible conduit shall be installed.
or footings shall be disturbed or injured in any way. 4. Remove all surplus earth not needed for filling and diagona of arms as appointed under given architectural	type SF2. 5. Cable and wire shall be as manufactured by Alcoa, Anaconda, General Cable, Triangle, Simplex, Hatfield,	c. Where the fittings are brought into an enclosure with a knockout, an insulated throat type fitting with liquid sealing "0" ring shall be used.
dispose of same as specified under given architectural specifications. 5. All backfilling shall be thoroughly tamped and settled	Bell, Alpha, and Coleman Cable and Wire. 6. Unless specifically noted otherwise, all wiring shall	d. Flexible metal conduit shall be installed for all final equipment connections to transformers,
in a manner as is proper for the particular type of work.	be installed in conduit. 7. Layout branch circuit wiring and arrangement of home runs for maximum economy efficiency. Increase wire	light fixtures (lay—in type) and all other devices where so required. (Maximum of 6')
6. Where it is necessary to install work in or across roads, pavements, curbs, sidewalks, etc., this Contractor shall restore the present construction to	size if voltage drop exceeds 2% or 100 ft in length. C. Color Coding: Color coding shall be used throughout the	 Type of Conduit: a. The following areas shall be galvanized steel heavy wall conduit:
its original or better condition if disturbed by his operation at no additional cost to the Owner.	entire electrical system: For 120/208V. Systems:	1) In earth fill. 2) Exposed in wet areas.
B. Application, Installation: 1. In the event that conflicts, if any, cannot be settled rapidly and amicably between the affected trades, with	1. "A" Phase – Black – all gauges. 2. "B" Phase – Red – through # 6. Larger black with phase markers.	 3) Exposed outdoors (Provide watertight fittings & boxes).
work proceeding in a workmanlike manner, then the Architect/Engineer shall decide which work is to be	 "C" Phase — Blue — through # 6. Larger black with phase markers. 	4) Outside masonry walls.5) Within building confines run in concrete
relocated and his judgement shall be final and binding on this Contractor.	4. Neutral — White — through # 6. Larger black with phase markers.	slab. 6) Exposed in mechanical rooms. 7) Feeder conduit for panelboards.
2. No measurements of a Drawing by scale shall be used as a dimension to work by. The Drawings are not intended to show complete or accurate details of the building	5. Grounding Wire — Green, insulated. 6. Control Wire — Colors other than above.	Couplings for conduit run in poured concrete
in every respect. Exact locations and relations are to be defined in the field and shall be satisfactory	For 277/480V. Systems: 1. "A" Phase — Brown	shall be concrete tight. b. Conduit run in dry areas within building confines shall be EMT. Dry areas are inside partitions,
to the Architect/Engineer. This Contractor shall take all field measurements and shall be responsible therefore.	2. "B" Phase — Orange 3. "C" Phase— Yellow	ceiling cavities and areas not subject to damage. Outside walls are not considered dry areas.
3. Compare Drawings and Specifications, checking all measurements and determine intent of Contract	4. Grounding Wire — Gray D. Wire Pulling Lubricant: Use of wire pulling lubricant is	c. IMC may be used in above grade floor slabs of size 3/4" only. d. Where permitted by local codes run conduits under
Documents. Discrepancies shall be brought to the Architect/Engineer's attention for interpretation	optional; but, if needed to prevent damage to the conductors, it must be listed by Underwriters Laboratories	floor slabs and in contact with earth may be schedule 40 PVC.
prior to any installation. 4. The right is reserved to make any reasonable change in location of outlets and equipment prior to roughing—in	and be of such consistency that it will leave no obstruction or tackiness that will prevent pulling out old wires or pulling in new wires or additional wires	 Supporting of Conduit: a. All conduits must be independently supported from
without involving additional expense. Any change from the Electrical Drawings as is necessary to make the	wires or pulling in new wires or additional wires. E. Electrical Connections, Terminals and Splicing shall be in accordance with Section 110—14 of the N.E.C. Connection	structure. No conduits shall be supported from the ventilating ducts, ceiling hangers, mechanical piping or their hangers.
work of this Contractor conform to the building as constructed and to fit the work of other trades shall	materials and equipment must be given special attention when using dissimilar metal conductors, etc.	 All surface run conduit one inch(1") and smaller shall be supported every five feet with one hole
be included in Contractor's Contract and installed without extra cost.	F. Outlet, Pull and Junction Boxes: 1. Boxes shall be 12 gauge or heavier steel, sherardized or galvanized to prevent rusting and shall have	straps with clamp backs. Perforated strap hangers will not be permitted.
3.02 FIELD QUALITY CONTROL A. Testing:	readily removable knockouts. 2. Pullboxes and pull fittings shall be accessible with	c. Hangers shall be proportioned for the weight of the conduit(s) supported. All rods, clamps and/or hangers shall be galvanized, bonderized,
 After wires are in place and connected to devices and equipment, the system shall be tested for shorts and arounds. 	removable covers secured with brass machine screws. 3. Junction boxes shall be minimum 4" square or octagon,	plated or painted. Where factory supplied, with one of the above rust resistant finishes, all
2. All hot wires, if shorted or grounded, shall be removed and replaced.	not less than 2" deep, deeper if required by the number of wires or construction, with appropriate covers. Provide with 3/8" stud where lighting fixture	field cuts and threads are to be painted and covered with a grey finishing paint.
3. A voltage test shall be made at the last outlet on each circuit. If drop in potential is excessive,	is suspended from box. 4. All switch and receptacle outlets shall be equipped	d. Trapeze type hangers may be used where several conduits occur at the same elevation. The spacing of such trapeze hangers shall be
Contractor will be required to correct the condition by locating partly grounded conductor or high resistance splice.	with minimum 4" box. Gang boxes shall be provided where groups of switches occur. All boxes shall be	determined by the electrical code spacing requirements for the smallest conduit in the run.
 All grounds, shorts and high resistance splices shall be rectified. 	equipped with proper raised covers, mounted at heights shown on Drawings, or as directed. The approximate location of outlet boxes is shown on the Drawings, but	e. Approved type inserts for support of work in cast or concrete construction. f. Approved type steel beam clamps in the case of
5. Any wiring device, electrical apparatus or lighting fixture furnished under this Contract, if grounded or charted on any integral "live" part, shall be removed	care shall be taken to install all outlets with proper relation to equipment or material to be installed by	steel construction. g. Provide seismic bracing in accordance with Indiana
shorted on any integral "live" part, shall be removed and the trouble rectified by replacing all defective parts or materials as directed.	other trades. Special outlets shall have proper boxes to accommodate special equipment. Outlet boxes in	code requirements. Contractor shall provide structural engineer designed bracing system. Design shall be by
6. Service ground to be tested per Indiana Electrical Code requirement. Grounding pole of all receptacles	masonry shall be or proper depth to allow conduit to be installed without cutting of shell of blocks, etc. 5. Outlet boxes shall be as manufactured by Appleton,	Electrical Contractors Structural Engineer and at Electrical Contractors expense.
to be tested. 7. All motors shall be tested under load with ammeter readings taken in each phase, and the RPM of motors	Steel City, Raco or Crouse—Hinds. 6. Boxes for all exterior conduit, or conduit mounted in	6. Where holes or recesses must be cut in walls, floors, ceilings, or any part of the building to admit
recorded at the time. All motors shall be tested for correct direction or rotation. Electrical Contractor	G. Disterioreotalisvit shel t: be cast iron boxes, type "FS" or 1. SWDCheas shallurioeturblitMay erclassed HindlischApplietlandspyle National, KB1 Kiltarkenah degitisvide as willtheas shalledbe quick—make,	apparatus, conduit or other work of this Contractor, he must have it done by a competent mechanic in a neat and workmanlike manner. The portions cut must be
shall be responsible for testing running of all motors and shall verify that proper overload devices have	watertightqu ickers reakitsingshathalperetional operation of the switch, gasketed rootvers: capable, during normal operation of the switch,	restored to their original condition at the expense of this Contractor. This Contractor shall provide for
been installed. 8. All meters, instruments, cable connections, equipment or apparatus necessary for making all tests, shall be	of being restrained by the operating handle after the opening or closing of the contacts has started.	all of his own cutting and patching. 7. All conduits run in or below any grade slab shall be
furnished by this Contractor at his own expense. 9. Contractor shall submit proof of all tests to the	 All safety switches shall be heavy duty of voltage matching equipment served, NEMA 1 for indoor use and NEMA 3R for outdoor use. Switches shall be as 	heavy wall conduit and entirely encased in 2" of concrete. In no case shall conduit be laid in fill below slab. Conduit shown as plastic shall be
Architect before final acceptance of the work. 3.03 ADJUST AND CLEAN	manufactured by Westinghouse, Square D, or Siemens. H. Fuses: Furnish and install all fuses. Fuses shall be	schedule 40. 8. 1/2"D. minimum conduit shall be provided in all
A. Cleaning Equipment, Completed Work and Premises: After the completion of all installations, each system shall be	Bussman "Fusetron", dual element, current limiting type, unless specifically noted otherwise.	non—accessible construction such as floor slabs, earth, masonry, walls, partitions, etc. 9. Provide:
thoroughly cleaned to remove all paint, oil and other foreign material. Contractor shall also clean all foreign paint, grease, oil, dirt, labels and stickers, etc., from	I. Switches: 1. Except where otherwise specified, wall switches shall be mounted in suitable outlet boxes in the walls,	a. Supplementary angles, channels, plates, etc., where supports are required between building's
all fixtures, equipment, etc. The Contractor shall remove all rubbish, debris, etc., accumulated from his operations	partitions, or as shown on Drawings. 2. Wall switches shall be located as indicated on the	structural members, spanning the space and attached to building structural members, by
from the premises. B. Demonstration: At the conclusion of the work and before	Drawings, arranged singly or in gangs and at the height specified or indicated and shall have proper covers with finishes specified herein. Switches shall	welding, bolting or with concrete anchors. b. All rods, angles, rails, struts, brace plates, platforms, etc. required for suspension or
final contract payment is made demonstrate and explain to the Using Agency's personnel, the function, operation and maintenance of all equipment and systems installed by this	be as follows unless otherwise called for on Drawings or hereinafter specified. (Contractor shall check	support of conduit and equipment. c. Straps, clamps, threaded rods, turnbuckles,
Division of the work and provide a copy of all tests performed.	architectural drawings for additional information.) a. Light switches shall be toggle 20amp, 120/277	anchors, etc., and all miscellaneous specialties for the attachment of hangers and supports to the structure.
C. Protect all equipment and systems against harmful exposures to, or accumulations of dust and moisture, flooding, corrosion or other forms of damage and clean and restore	Volt Specification grade. b. SPST Hubbell #1221; P & S #20AC1; Leviton #1221 c. 3—way Hubbell #1223; P & S #20AC3; Leviton #1223	10. Unless otherwise noted on the Drawings, the following shall apply:
damaged finishes as may be required to place installations in a "like—new" condition before acceptance by the	d. 30A—SPST (Motor Disconnect): Hubbell #3031; P & S #30AC1; Leviton #3031. Coordinate location	a. Convenience outlets shall be placed on separate circuits from motor and lighting outlets.
Architect.	with mechanical trades. 3. Verify door swings before installing switchboxes and	 Motors shall be placed on separate circuits from lighting outlets. Convenience outlets shall not be installed back
3.04 SCHEDULES A. Equipment Schedules: See Drawings for schedules of lighting fixtures, switchboard, panelboards, distribution	install the boxes on the latch side of the door unless otherwise directed by the Architect. 4. Color of devices to be bid as white; however, final	to back. 11. Provide full size ground wire in all conduits, PVC or
equipment, and related items.	selection shall be by the Architect. J. Receptacles:	Metallic. Where the drawings do not identify the size of the equipment ground wire, it shall be the same size as the phase conductors.
3.05 APPROVALS A. Obtain all permits and approvals from the governing bodies which have invisidiation over this project	 Receptacle shall be located as shown on the Drawings and at the heights specified or indicated. Receptacle and power outlets shall be of the arounding type and 	B. Motor and Equipment Wiring: 1. Unless indicated or specified elsewhere perform the
which have jurisdiction over this project.	and power outlets shall be of the grounding type and as manufactured by Hubbell, Pass & Seymour, or Leviton.	following: a. Connect and wire to each motor and piece of
3.06 IDENTIFICATION AND TAGGING A. Provide all distribution switches and/or circuit breakers, starters, etc. whether individually mounted in panelboards,	2. Duplex Convenience Receptacles: 20A.,2 Pole, 3 Wire,	electrically operated equipment shown on the Drawings or as specified in these Specifications. b. Furnish, install and connect all starters,
switchboards, etc., with suitable identification. The designation, using proper nomenclature, shall indicate the	125 Volt, (NEMA designation 5—20R) Specification Grade. a. Pass & Seymour #5362	controller selector switches, pilot lights, pushbuttons' stations for each motor and piece of
load served. Provide all feeders with suitable identification as to their designation in all junction boxes, pullboxes, gutter spaces through which they pass,	b. Leviton # 5362 c. Hubbell # 5362	electrically operated equipment shown on Drawings, or as specified in the Specifications, unless otherwise indicated.
and at their terminal points of connection. Identification of distribution switches or circuit breakers in panelboards	3. Special Receptacles and Floor Boxes: As indicated on Drawings. Color of receptacles to be as selected by architect owner, coordinate with architectural finishes in front of house spaces. All kitchen and back of house device	c. Furnish and install all wiring from the current source to all starters and from starters to
shall be by means of panelboard directories. Identification of distribution switches or circuit breakers and starters individually mounted or in switchboards shall	shall be white with stainless steel cover plates. 4. Ground fault circuit interrupter to be provided for all kitchen,	motors, except in the case of factory installed wiring packaged equipment. Wire to the line side of all prewired equipment.
be by means of engraved lamacoid nameplates permanently fastened on the front face of the housing, showing 1/4"	receptacles outdoors, in toilet rooms, and within 6' of sinks. K. Switch and Receptacle Plates:	d. Furnish and install a disconnect switch ahead of all prewired package equipment. Coordinate with
high white lettering on a black background. Identification of feed cables shall be by means of engraved fiber tags	 Plates in back of house areas for switches and receptacles shall be stainless steel plate. 	Mechanical Trades Contractor. e. Install all roughing—in pertaining to each item of equipment furnished under other Sections of
suitably fastened to the cables. 3.07 SLEEVES	 Provide multigang or combination plates for devices grouped in gang or combination. Provide painted steel plates in colors to match device in front of house areas. 	the Specifications or by the Owner. Locations of electrical outlets for this equipment are
A. Provide coring in walls and floor slabs for the passage of all conduits, pipes and ducts installed.	 4. All outdoor devices shall be weather resistant, GFCI protected, and provided with While in Use weatherproof cover plates. 	indicated on the Drawings in their approximate locations. The supplier furnishing the equipment will furnish dimensional drawings accurately
B. Cored holes in floor shall be provided with sleeves extended one inch above finished floor level and made watertight.	 Identify all dedicated circuits with a laser printed adhesive label indicating panel and circuit number. L. Circuit Breakers: 	locating all roughing—in required for his equipment.
3.08 PAINTING	 Circuit breakers: Circuit breakers shall be as manufactured by Cutler—Hammer, Square D, General Electric or Siemens 	f. Receive, set and align motors which are shipped loose if local union or trade jurisdiction
A. All equipment, panelboards, switchboards, etc., shall be factory finished in baked enamel or lacquer, or as specified. Standard factory finishes shall be approved.	or of type and manufacturer to match existing for existing panels.	practice requires doing so. g. Provide all control circuit and interlock wiring and connections for all mechanical equipment as
Any scratches shall be neatly touched up by the installing Contractor.	 M. Motors, Control Panels, Etc., Furnished by Others: 1. Check the Drawings and Specifications covering all branches of the work to ascertain what equipment is 	indicated and scheduled on the Drawings. 2. If a disconnect switch is required by the enforcing
B. All metal work installed by this Contractor exposed to the weather and not factory finished shall be painted with two coats of oil paint of color selected by Architect.	furnished by others. It will be this Contractor's responsibility to furnish the necessary labor and	code and not indicated on the Drawings or in the Specifications, it shall be furnished and installed. 3. Where specific locations of switches and starters are
coats of oil paint of color selected by Architect. C. All finish painting shall comply with the Painting Section of the Specifications.	materials to receive and wire said equipment. Check the Plumbing and Mechanical Drawings and Division 15	not shown on the Drawings, these shall be placed near the motor.
3.09 CUTTING AND PATCHING	of the Specifications carefully for wiring by the Electrical Contractor.	C. Conductors, Cables: 1. Except where otherwise shown on the drawings all
 Perform all cutting and patching required to complete the Work, except where specifically shown on the Architectural or Structural Drawings. 	PART 3 – EXECUTION 3.01 PREPARATION/INSTALLATION/APPLICATION	wiring shall be installed in conduit. 2. Conductors and cables shall not be installed in
B. Refer to Section 01070 for additional requirements. END OF SECTION	A. Conduit: 1. Installation — All conduit shall be sized in accordance per local codes:	conduit or raceways until same are free from moisture and debris.
SECTION 16100	a. Conduit to be run exposed in unfinished areas such as mechanical, electrical room, and janitors' closets used as electrical closets. All other conduit shall be	3. Leave a minimum of six inch(6") length of cable and conductor slack at each outlet. D. Expansion Fittings:
BASIC MATERIALS AND METHODS	concealed. b. All conduit and wiring shall be concealed wherever possible. Where conduit and wire cannot be concealed, obtain direction from the Architect. No surface mounted	1. Expansion fittings shall be installed in all conduits crossing expansion joints. Refer to Architectural
PART 1 — GENERAL 1.01 DESCRIPTION A. This section defines the Basic Material and Methods which	conduit, wiremold or power poles will be acceptable, unles specifically indicated on the drawings.	e drawings for locations.
A. This section defines the Basic Material and Methods which are common to all Sections of Division 16.	c. Run parallel or perpendicular to exterior walls of building. d. Locate to avoid equipment, fixtures, ductwork piping, etc.	
PART 2 - PRODUCTS	e. Layout and install work in advance of the layin of floors, walls, etc., and furnis and install all sleeves that may be required for openings through floors, walls, etc. f. Where conduit is to be run exposed, furnish and install all inserts and clamps for	
2.01 MATERIALS A. Conduit: 1. Electrical Metallic Tubing: EMT, "Thinwall" conduit	the supporting of conduit. g. If contractor does not properly install all sleeves and inserts he will be required	to
shall in general be utilized where permitted by Code except where described herein. Minimum size conduit	do the necessary cutting and patching later at his own expense, and to the satisfacti of the Architect. h. Do not obstruct openings or passageways.	
shall be 3/4", unless otherwise specifically noted otherwise. 2. Heavy—wall steel conduit and I.M.C shall be either hot dipped galvanized or sherardized.		

6. Utility Company transformer support pad and primary conduit(s)

7. Complete secondary 277/480 volt, 3 phase, 4 wire, 60 hertz service from the Utility Pad Mounted Transformer To CT compartment and metering and main service overcurrent protective device. Coordinate with utility company for service upgrade.

Temporary Electrical service for construction purposes. Coordinate with general contractor.

PART 2 - PRODUCTS 2.01 EQUIPMENT

- A. Distribution Panelboards: Shall be as scheduled on the drawings Panelboard shall be enclosed in steel cabinet o
 - rigidity and gauge of steel per UL Standard #50 for
- 3. Acceptable manufacturers are Square D I Line Series, Eaton Pow-R-line 4 series, Siemens P4 series and General Electric Spectra Series. 4. Bus structure shall be copper not exceeding density of
- 1000 amps per square inch of cross section. Buss supports shall be adequate to withstand 65,000 amperes symmetrical short circuit stresses minimum. Al contact surfaces shall be silver plated.
- Panelboard shall be braced for short circuit capacities as scheduled by the local Utility Compan however, the minimum bracing shall be 65,000 A.I.C symmetrical.
- Circuit breakers shall be molded case fixed trip type with s accessories as required including lockable hasps, lock out clips, shunt trip or GFCI. Each circuit breaker shall be equipped with an
- approved nameplate which indicates the name of the equipment (motor, panelboard, etc.) to which the feeder conductors are connected. 8. Main distribution panel shall have a ground bus. The
- ground bus shall be fastened and bonded to the framina member in an approved manner. The ground bus shall be grounded in a manner meeting all code requirements.
- B. Building Metering/Service Disconnect: For metering furnish and install on the C/T compartment or on the exterior wall a mounting panel with all meter accessory equipment for mounting thereon the associated Utility Company's meter requirements. Contractor shall comply with Utility Company requirements.
- Service disconnect shall be service entrance rated weatherproof Nema **3R Main Fused Switch.** C.
- Panelboards: Panels shall be type indicated on the Drawings, with main lugs, main breakers, bolt-on branch breakers, spares and spaces as scheduled. Ground fault interrupter (GFI) circuit breakers shall be provided
- where noted Panels shall comply with U.S. Federal Specification WP115a, Type I, Class I. Where applicable, provide with copper bus of density not exceeding 1000 amps per
- sauare inch. 3. The Electrical Contractor shall balance all circuits. All conductors shall be continuous without splicing from last outlet to their terminals in cabinet. A circuit conductors in cabinet shall be installed with sufficient amount of length to reach the most remote
- breaker connection from its point of entrance. 4. Panelboard fronts shall be fabricated from a flat piece of full finished code gauge sheet steel with door cut out leaving a trim of proper width around the door. Provide Door in Door construction for access to wiring compartment without removal of cover. Provide a latching mechanism controlled by a chrome plated vault-handle on doors twenty-four inches(24") or over in height. All Locks to be keyed alike to the panel manufactures's standard key. Two(2) Keys shall be furnished with each cabinet.
- 5. Contractor shall provide a directory of circuits for cabinet. Directory shall be typewritten designating room or equipment and circuit numbers. Directory frame, lock, hinges, etc., are to be secured to inside of door and trim in such a manner that screws, hole or welds, etc., are not visible on the door panel or
- 6. The width and height of cabinets shall be sufficient to provide a wiring gutter at the two sides and at the top and bottom of not less than 4". Additional width or height shall be provided, if required for entering conduits. Additional wiring gutter space shall be provided, if required for main or sub-feeder cables passing through to feed other cabinets.
- 7. Where 2 or 3 pole breaker units are called for, they shall be one unit with common trip and not single pole units with handle ties. Capacity of main busses shall be as shown on the Drawings.
- 8. Panelboards shall be Square 'D' NQQD series, Eaton PRL1a, General Electric A series, or Siemens P1 approved equivalent. Panelboards shall be braced for short circuit capacities as scheduled by the local Utility Company and series rated with upstream breakers in MDP.
- 10. All breakers utilized for switching lighting shall be labeled switching duty type.
- 11. All panels shall be provided with Door-in-Door Construction. 12. Install complete and test in accordance with NECA STANDARDS. C. Transformers
- All general purpose transformers shall be enclosed and ventilated. All transformers shall comply with DOE 10 CFR Part 431 January 1st/, 2016 efficiency levels defined in the U.S. Department of Energy, Energy Conservation Program; Distribution Transformers Energy Conservation Standards DOE 10 CFR Part 431 as published in the Federal Register No. 2013-08712 / Vol. 78, No. 75 / Thursday, April 18, 2013 / Rules and Regulations
- All transformers shall comply with Nema ST-20. IEEE C57.110 DOE 2016 and UL 1561 and be UL listed
- Inrush currents shall not exceed 15 X RM Typical Impedenence **0** 60 Hz shall be 3 % to 5.75.
- Insulation Class: 220 Deg C. Temperature Rise 150 Deg C Taps: To NEMA ST 20 $[2 \times \pm 5\% (1FCAN, 1FCBN)]$ Core construction: high grade non-aging, fully processed silicon steel
- laminations or better Transformers shall terminate in mounting pads or mechanical lugs Primary and secondary terminations are to have terminals on the same side of the transformer mounted on separate insulated supports, with the HV teminations in the upper half of the enclosure and LV terminations in the lower half. Mechanical type lugs shall be included on primary, secondary and neutral customer terminations on all aluminum and copper units up to and including 270 amp ratings. Contractors shall provide all necessary lugs not already provided with transformer. Anti-vibration pads/isolators shall be used between the
- transformer core and coil and the enclosure. 10. Ground core & coil assembly to enclosure with a flexible copper grounding strap or equivalent. Cannot block ventilation slots per N.E.C. 2017 Transformers Shall be Hammond Power solutions or equivelent by Siemens. ABB,
- Eaton, Square D or Heavy Duty. 12. The installing contractor shall install the Transformer per the manufacturer's recommended installation practices as found in the installation, operation, and
- maintenance manual in compliance with all applicable national and local codes. 13. Transformers cannot be back (reverse) fed unless specifically designed for and
- marked accordingly. Make sure that the transformer is levelled. Check for damage and loose connections.
- Mount transformer to comply with all applicable codes. Install optional vibration isolation pads between transformer enclosure and the
- mounting surface as needed. 18. Install seismic restraint where required by code Coordinate all work in this section with all work of other sections.

21. Install compete and test transformer in accordnace with NECA standards.

Prior to putting transformer into service, verify secondary voltages and if necessary adjust primary taps

PART 3 - EXECUTION 3.01 INSTALLATION

- A. Electrical services, metering and main distribution shall be as shown on the Drawings and as herein specified. B. System Grounding: Shall be in strict accordance with the Indiana Electrical Code, Local Governing Authorities and in accordance with the recommendations of the Utility
- Company C. Electrical Service:
- Electrical services shall be from the utility transformer at 3 phase, 4 wire, 60 hertz with voltage as specified on the Drawings. Furnish and install the service from the utility transforme
- gear to the current transformer cabinet/meters and nto the main service switches as shown on the Drawings. Leave sufficient slack cable, at the locations for connection of the secondary
- conductors, all terminations by this contractor This Contractor shall contact the Utility Company to obtain all information necessary for the work, incorporate their instructions into the work, and
- obtain their approval of all work and material. Include all contractor related costs in base bid. 4. Provide Utility approved CT cabinet in accordance with the
- Utility Company's standards. Utilize existing spare conduits for new work as feasilble. 5. coordinate installation of the CT's and meter with The Utility Company.
- D. Grounding: Provide an electrically continuous ground system from service to all points of utilization. In general, all pieces of electrical equipment shall be arounded as required by Federal, State and Local Codes and regulations, but special attention is called to the
 - following items to be grounded as indicated: a. All distribution equipment including transformer and panelboards.
 - b. Conduit and other metallic raceways. In general where grounding wire is shown use green
 - END OF SECTION

SECTION 16500 LIGHTING SYSTEMS AND CONTROLS

PART 1 - GENERAL 1.01 DESCRIPTION

- A. Work Included: Installing and wiring lighting fixtures as shown on Drawings and Lighting Fixture Schedule. Refer to the Architectural Room Finish Schedules and 1.
 - Architectural and Structural details to determine conditions and finishes affecting the installation of the work. Include. to the full intent and meaning of these Specifications, all items of labor and materials necessary for design, detailing or adjustment of fixtures due to surrounding finishes and construction.
- PART 2 PRODUCTS 2.01 MATERIALS

A. All lighting fixtures and lamps shall be furnished by owner, received, installed and wired complete by electrical contractor PART 3 - EXECUTION

- 3.01 INSTALLATION A. Fixtures: An outlet is to be provided for each fixture. All fixtures shall be located to suit the Architectural details of the areas involved. Unpack, assemble, wire and install all fixtures at the proper locations indicated on the Drawinas. B. Recessed Fixture Installation: Recessed fixtures shall be
- of type suitable for mounting in the type of ceiling as scheduled on the Drawings. Variations to catalog numbers indicated shall be made to assure proper mounting and fitting arrangements, prior to fabrication. Changes to be made by this Division Contractor must have prior written approval from the Architect. C.
- Supports: Each lighting fixture shall be rigidly and independently supported from the building construction. Provide suspension hangers, stems and extra steel work for fixture
- support where required. Coordinate complete unistrut suspension system with General Contractor
- for all front of house lighting coordinate scope with General Contractor prior to submission for bid.
- Where recessed fixtures are called for, each shall be provided with the proper plaster frame or suitable adapter to receive the finished ceiling construction.
- Where suspended acoustic tile ceilings on steel channels occur, outlets and fixtures shall be supported on members resting on the channel framework
- In no case shall fixtures be supported from plaster or acoustic material. Suspended fixtures shall be hung on suspension hangers furnished by the fixture manufacturer and shall be
- adjusted as necessary during installation to insure that all fixtures in the same room or area are at a uniform height from the floor. Mounting height shall be as specified, detailed or noted on the Drawings.
- D. Fixture Wiring: Fixtures shall be wired with white wire for the neutral and colored wire for phase wires, see Section
- Housing of all fixtures must be grounded to conduit
- Each fixture to be complete with holders, screws,
- sockets, wires, lamps, etc., as is necessary for a complete installation
- All lighting shall be dimmed. EC shall coordinate exact dimmer to be utilized and provide compatible dimmer.
- All circuits shall be provided with independent neutral conductor no sharing of nuetrals permitted.
- 6. Provide additional wiring as required to facilitate 0–10V dimming and other types of dimming provided. coordinate exact wiring requirements prior to installation of any lighting fixtures.
- E. Operation and Controls:
 - 1. Provide a complete and operable Lighting control system system consisting of electronic 24 hour timeclock, photocell, over ride switches and contactors to control exterior lighting and signage, general lighting, patio lighting, and indoor holiday/show vindow devices, provide panel with space for 48 controllable relays.
- 2. Provide local dimming switches as shown and wired.
- 3. Exit and directional signs shall be constantly on, and wired as shown.
- Commission lighting controls in accordance with 2021 IECC
- 5. Provide 16 hours of labor during normal working hours to coordinate aiming and adjustment of lighting fixtures after buildling is
- complete. Coordinate with owners representative in field. 6. Refer to Architectural drawings for all lighting specifications.

END OF SECTION

SECTION 16620 EMERGENCY LIGHT AND POWER

- PART 1 GENERAL 1.01 DESCRIPTION
- A. Install all exit signs and battery emergency lights as shown on the Drawings and required by all governing authorities having jurisdiction.
- 1.02 SUBMITTALS A. Requirements of Regulatory Agency: Obtain any and all plan approvals as required by the authorities which have jurisdiction over this Project, prior to start of work.

PART 2 - PRODUCTS 2.01 MATERIALS AND FIXTURES

- A. Conduits, fittings, wire, etc., shall be in accordance with applicable Section of this Specification.
- B. Exit and Direction Signs: Shall be U.L. approved
- Colored letters on white background. (Color per the local Code Authority).
- 3. Directional arrows as required by local Fire
- Protection Bureau. 4. Color of trim as selected by Architect.

PART 3 - EXECUTION

- 3.01 INSTALLATION Furnish and install all branch circuit wiring, etc, with green ground wire. All exit and emergency lighting shall
- be wired ahead of local switching in accordnace with National Electrical code. B. Provide aiming and adjustment of emergency lighting to provide

END OF SECTION

SECTION 16720

ALARM AND DETECTION SYSTEMS

PART 1 – GENERAL 1.01 DESCRIPTION A. Work Included:

PART 1 – GENERAL

PART 2 – PRODUCTS

2.01 MATERIALS

A. Work Includes:

owner's vendor.

All telephone instruments.

A. Conduits, fittings, and outlet boxes shall be as

hereinbefore specified in Section 16100.

the Drawings, including the following:

termination point.

Wall boxes to be flush, 4" square, with extension ring.

equipment to respective electrical service grounding

3. Outlet boxes with a 3/4" conduit stubbed into

telecommunications room light fixtures.

B. Work by Telephone Utility:

electrode system.

lines.)

1.01 DESCRIPTION

- Provide necessary conduit and power for alarm and detection systems. This shall include the following: a. Dedicated 20 Amp., 120 Volt circuit (s).
- b. 3/4" conduit (empty) to each door contact, silent duress alarm, camera, etc.
- PART 2 PRODUCTS (REFER TO OTHER SECTIONS OF THE SPECIFICATION)
- PART 3 EXECUTION 3.01 RELATED DOCUMENTS A. All conduit and wiring requirements shall conform with
- Section 16100, "Basic Materials and Methods" of this Specification.

All wiring for telephone instruments.

END OF SECTION

SECTION 16700

COMUNICATIONS

Empty conduit and boxes for wiring installed by



SF: 1.00 JC

JN: H: ∖25041.01

FN:E3.1 ELECTRICAL SPECS ANCHO SUMMIT

PART 1 GENERAL

PART 2 PRODUCTS 2.01 NEW FIRE ALARM SYSTEM: ADDRESSABLE TYPE. A. Where the word "should" is used in NFPA 72, consider that provision

Mandatory. B. Do not combine fire alarm system with other non-fire systems. C. Control units: Notifier Firewarden 100-2(E), or equal, intelligent Control unit capable of monitoring all required addressable initiation Devices, operating all required notification appliances, and Initiating all required auxiliary functions. Provide with digital Alarm communicator transmitter (dact) with two dedicated telephone Lines that communicate to a ul-listed remote supervising station. Provide storage battery secondary power source, unless indicated Otherwise, and battery charger capable of operating entire system for Period of time specified by NFPA 72 and charging depleted batteries Within 48 hours of power restoration. Use semi-flush enclosures in All areas except for unfinished areas.

D. Trouble sequence of operation: system or circuit trouble places System in trouble mode, which causes visual and audible trouble alarm Indicated at fire alarm control unit, trouble signal transmitted to Remote station, manual acknowledge function at fire alarm control unit Silences audible trouble alarm but visual alarm is displayed until Initiating failure or circuit trouble is cleared, and visual and Audible trouble alarm indicated at remote annunciator panel if Applicable E. Alarm sequence of operation: actuation of initiating device places Circuit in alarm mode, which activates notification appliances, Transmit coded signal to remote supervising station, transmit signal To building mechanical systems to initiate shutdown of fans and smoke Damper operation as applicable, transmit signals to building elevator Control panel to initiate elevator recall as applicable, and indicate Location of farm on fire alarm constral unit and or remote annuminator. Location of alarm on fire alarm control unit and on remote annunciator Panel if applicable

Neutral and 350 vac line—to—line. Do not use fuses. G. Connect control unit to a separate dedicated branch circuit with a Separate, red, dedicated disconnect switch with lock—on accessory and Label circuit as fire alarm. 2.02 Fire safety systems interfaces A. Supervision: provide supervisory signals in accordance with NFPA 72 For fire suppression system control valves, flow switches, pressure Switches, and corrosion monitoring probes where ever present, per NFPA 13, 13r and 72.

B. Alarm: provide alarm initiation in accordance with NFPA 72 for fire Suppression system flow, kitchen hood fire suppression system Equipment, and all other initiation devices present or required for a Complete NFPA 72 compliant system. C. Trouble: provide trouble signals in accordance with NFPA 72.

2.03 Initiation devices: provide initiation devices made by the same A. Manual stations: semi-flush mounted, non-coded type, single action

G.

Α.

Instruction.

Back box.

B. Ceiling or wall mounted smoke detector: NFPA 72, photoelectric type With visual indication of detector actuation, adjustable sensitivity, And plug—in base suitable for mounting on 4 inch outlet box. C. Duct mounted smoke detector: NFPA 72, photoelectric type with Auxiliary spdt relay contact, key-operated normal-reset-test switch, Duct sampling tubes extending width of duct, and visual indication of Detector actuation. Include remote test/reset station for each duct Mounted smoke detector, including audible and visible alarm indication And reset capability. D. Spot heat detector: combination rate—of—rise and fixed temperature Rated 135 degrees f and temperature rate of rise of 15 degrees f.

2.04 Notification appliances: provide all notification appliances made by the Same manufacturer. Provide flush mounted initiation devices where B. Audible appliances: NFPA 72, flush type fire alarm horn rated at 87 Db at 10 feet. Provide integral strobe lamp and flasher with clear Lens and red lettered "fire" on lens or housing where combination Appliances are indicated on the drawings. C. Remote annunciator: where indicated on the drawings or otherwise Required, provide remote annunciator including audible and visual Indication of fire alarm, and audible and visual indication of system Trouble. Install in flush wall-mounted enclosure where indicated on The drawings, subject to the approval of the local fire marshal.

2.05 wire and cable: type fpl power—limited fire alarm cable or type fplp power— Limited fire alarm plenum cable where permitted by the authority having Jurisdiction. All new fire alarm system wiring shall be new and shall be Supervised for open circuits, short circuits, and grounded conditions. 2.06 instruction charts: printed instruction chart for operators showing steps To be taken when a signal is received (normal, alarm, supervisory, and Trouble). Provide stainless steel or aluminum frame with polycarbonate o Glass cover. Coordinate mounting location with owner. Part 3 execution 3.01 installation A. Install all components in accordance with applicable codes, NFPA 72, Nfpa 70, and the contract documents.

3.02 inspection and testing for completion

3.03 personnel instruction: provide hands—on instruction for the owner and Owner's personnel. Furnish the services of instructors and teaching aids And have copies of operation and maintenance data available during A. Closeout demonstration: demonstrate proper operation of all functions To owner. Have at least one copy of operation and maintenance data, Copy of project record drawings, input/output matrix, and operator Instruction chart(s) available during demonstration. Demonstration May be combined with inspection and testing required by authority Having jurisdiction. Repeat demonstration until successful.

PART 3 - EXECUTION

3.01 INSTALLATION A. Furnish and install conduit system as shown. Cabling and final connection to be by the owners subcontractor. The system shall consist of telephone/data outlets in locations as indicated, branch conduits, and all accessories required

2018 IECC COMMISSIONING REQUIREMENT.

for the applicable control type.

each sensor shall be tested.

the following:

performed:

correct operation.

within the required time

when manually activated.

more than 2 hours.

the following:

design professional.

the following:

Occupancy.

piece of equipment.

controls.

lighting controls.

and include the following:

areas or by HVAC operation.

<u>C408.3 Functional testing of lighting controls</u>. Automatic lighting controls required by this code shall comply with this

<u>C408.3.1 Functional testing</u>. Prior to passing final inspection, the registered design professional shall provide

tested to ensure that control hardware and software are calibrated,

and aimed in accordance with manufacturer recommendations.

of sensor type and space geometry. Where multiples of each unique combination of sensor type and space geometry are

3.1. Where occupant sensor controls include status indicators, verify

3.3. For auto-on occupant sensor controls, the lights turn on to the

3.4. For manual—on occupant sensor controls, the lights turn on only

3.5. The lights are not incorrectly turned on by movement in adjacent

3.2. The controlled lights turn off or down to the permitted level

permitted level when an occupant enters the space.

<u>C408.3.1.2 Time-switch controls.</u> Where time-switch controls are provided, the following procedures shall be

2. Provide documentation to the owner of timeswitch

5. Verify that the override time limit is set to not

Confirm that the time-switch control is programmed

Verify the correct time and date in the time switch.

Simulate occupied condition. Verify and document

Simulate unoccupied condition. Verify and document

8. Additional testing as specified by the registered

<u>C408.3.2 Documentation requirements.</u> The construction documents shall specify that the documents described in this section be provided to the building owner or owner's authorized agent within 90 days of the date of

<u>C408.3.2.1 Drawings.</u> Construction documents shall include the location and catalogue number of each

<u>C408.3.2.2 Manuals.</u> An operating and maintenance manual shall be provided and include the following:

2. A narrative of how each system is intended to

operate, including recommended setpoints. 3. Submittal data indicating all selected options for each piece of lighting equipment and lighting

4. Operation and maintenance manuals for each piece of lighting equipment. Required routine maintenance actions, cleaning and recommended

5. A schedule for inspecting and recalibrating all

C408.3.2.3 Report. A report of test results shall be provided

Disposition of deficiencies found during testing, including details of corrective measures used or proposed.

relamping shall be clearly identified.

1. Results of functional performance tests.

Name and address of not less than one service

receipt of the certificate of occupancy.

agency for installed equipment.

<u>C408.3.1.3 Daylight responsive controls.</u> Not required for 'A-2'

4. Verify that any battery back—up is installed and energized.

6.1. All lights can be turned on and off by their respective area control switch. 6.2. The switch only operates lighting in the

7.1. Nonexempt lighting turns off.7.2 Manual override switch allows only the lights in the enclosed space where the override

on until the next scheduled shutoff occurs.

switch is located to turn on or remain

enclosed space in which the switch is located.

with accurate weekday, weekend and holiday schedules.

controls programming including weekday, weekend, holiday schedules, and set—up and preference program settings.

provided, not less than 10 percent and in no case fewer than one, of each combination shall be tested unless the code official or design professional requires a higher percentage to be tested. Where 30 percent or more of the tested controls fail, all

evidence that the lighting control systems have been

adjusted, programmed and in proper working condition

in accordance with the construction documents and manufacturer's instructions. Functional testing shall be in accordance with Sections C408.3.1.1 through C408.3.1.3

C408.3.1.1 Occupant sensor controls. Where occupant

sensor controls are provided, the following procedures shall be performed:

1. Certify that the occupant sensor has been located

2. For projects with seven or fewer occupant sensors,

3. For projects with more than seven occupant sensors,

testing shall be done for each unique combination

remaining identical combinations shall be tested.

For occupant sensor controls to be tested, verify

by the telephone company for complete installation. END OF SECTION

SECTION 283100 - FIRE DETECTION AND ALARM

1.01 SYSTEM DESIGN, INSTALLATION, AND MAINTENANCE

A. Provide a fully engineered design of the fire detection and alarm system from a qualified fire detection and alarm system designer unless indicated otherwise. Any fire detection and alarm

of establishing a minimum criteria to aid the fire detection and

alarm system designer in the design of the fully engineered fire

detection and alarm drawings. Designer shall be nicet level iii or iv (3 or 4) certified fire alarm technician or registered fire

manufacturer, contractor, or installer, with experience designing

having jurisdiction. Installer shall be an employee of a firm with minimum 5 years experience installing fire alarm systems of the specified type and providing contract maintenance service as a regular part of their business. Maintenance contractor shall be

and use mall fire alarm vendor for design and installation.

F. Surge protection: in accordance with IEEE C62.41 B3 combination

Where installed in finished areas. Surface mounted initiation devices are Acceptable for use in unfinished areas.

Installed in finished areas. Surface mounted initiation devices are Acceptable for use in unfinished areas. Provide visible notification Devices in all public and common use areas. Notification appliances shall Be white unless the authority having jurisdiction requires red appliances.

A. Visible appliances: NFPA 72, strobe lamp and flasher with clear lens And red lettered "fire" on lens or housing.

But shall be not less than 16 awg for signaling line circuits and 14 awg For notification appliance circuits.

B. Conceal all wiring, conduit, boxes, and supports where installed in Finished areas. Install all concealed, inaccessible wiring, including Wiring installed in walls, and all exposed wiring in conduit in Accordance with NFPA 70. Conduits shall not enter the control unit or Any other component provided except where entry is specified by the Manufacturer. Where permitted by the authority having jurisdiction, Wiring may be installed without conduit where accessible and not Subject to damage. Plenum rated cable may be used only where Concealed above accessible tile ceilings or accessible shafts.

C. Obtain owner's approval of locations of devices, before installation

E. Install products in accordance with manufacturer's instructions.

D. Install instruction cards and labels. Provide legible, permanent Labels for each control device, using identification used in operation And maintenance data.

F. Install control units with top at 72 inches above finished floor, Manual stations with operating handle 4 feet above floor, and Notification appliances with tops at 90 inches above finished floor or 6 inches below finished ceiling, whichever is lower, and automatic Detectors per NFPA 72 requirements.

H. Make connections to sprinkler flow switches, sprinkler valve tamper Switches, fire suppression system control panels, duct smoke Detectors, and corrosion monitoring systems as applicable.

J. Mount end-of-line device in box with last device or separate box

B. Substantial completion of the project cannot be achieved until

Adjacent to last device in circuit.

I. Connect duct smoke detectors to close dampers as indicated and shut

Down air moving fans on each unit rated equal to or greater than 2,000 Cubic feet per minute or on units serving the same room or area where The total aggregate capacity of the units is equal to or greater than 2,000 cubic feet per minute, or as indicated on the drawings. Interlock duct smoke detectors and relays for global shutdown of all

Room or area where the total circulation equals or exceeds 2,000 cubic Feet per minute.

Inspection and testing: notify authority having jurisdiction and Comply with their requirements for scheduling inspections and tests And for observation by their personnel. Perform inspection and Testing in accordance with NFPA 72 and requirements of local

Authorities. Document each inspection and test and correct defective Work, adjust for proper operation, and retest until entire system Complies with contract documents.

Diagnostic period: after successful completion of inspections and Tests, operate system in normal mode for at least 14 days without any System or equipment malfunctions. Record all system operations and Malfunctions. If a malfunction occurs, start diagnostic period over After correction of malfunction. At end of successful diagnostic Period, fill out and submit NFPA 72 "record of completion" form.

Inspection and testing is successful, specified diagnostic period Without malfunction has been completed, all aspects of operation have Been demonstrated to owner, final acceptance of the fire alarm system Has been given by authority having jurisdiction, the occupancy permit Has been granted, and the specified pre-closeout instruction is

END OF SECTION

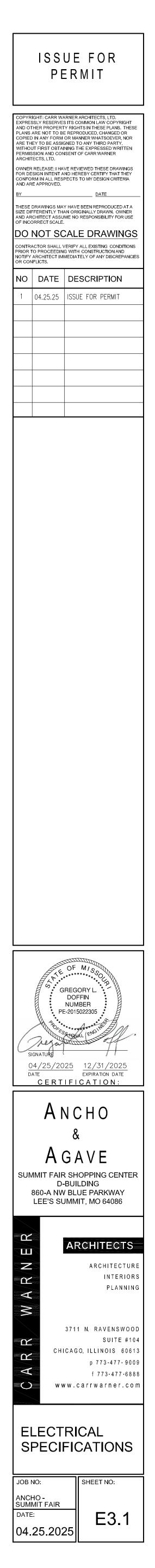
Separate cables from any open conductors of class 1 circuits and do Not place in any conduit, junction box, or raceway containing class 1

same entity as installer. Fire alarm system shall match existing mall

fire alarm systems in the jurisdictional area of the authorities

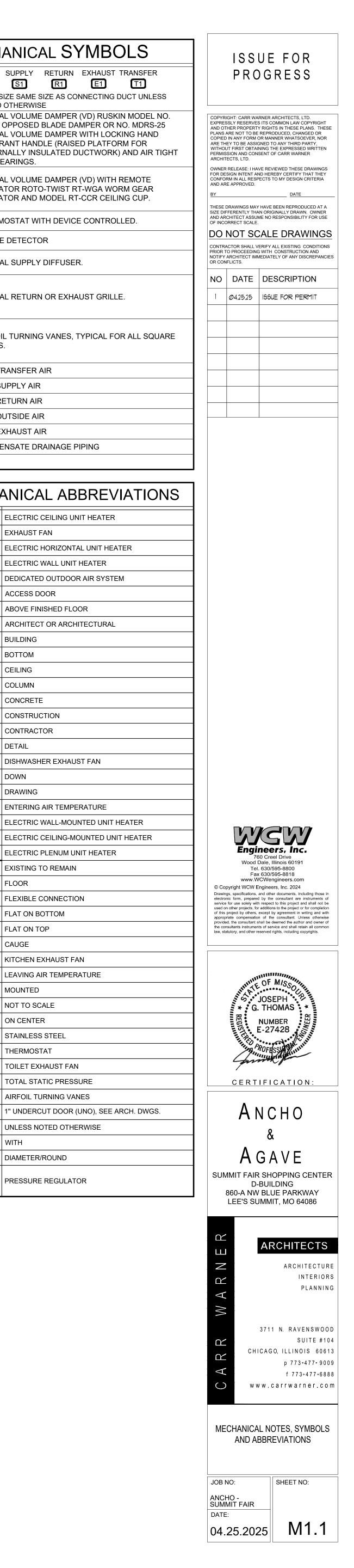
protection engineer, employed by fire alarm control unit

information indicated on the drawings is strictly for the purpose



	DRAWING INDEX
M1.1	MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS
M1.2	MECHANICAL SCHEDULES
M1.3	MECHANICAL SCHEDULES
M2.1	MECHANICAL DEMO PLAN
M2.1	MECHANICAL PLAN
M2.2	MECHANICAL GAS PLAN
M2.3	MECHANICAL ROOF PLAN
M3.1	MECHANICAL DETAILS
M3.2	MECHANICAL DETAILS
M4.1	CAPTIVEAIRE DRAWINGS
M4.2	CAPTIVEAIRE DRAWINGS
M4.3	CAPTIVEAIRE DRAWINGS
M4.4	CAPTIVEAIRE DRAWINGS
M4.5	CAPTIVEAIRE DRAWINGS
M4.6	CAPTIVEAIRE DRAWINGS
M4.7	CAPTIVEAIRE DRAWINGS
M4.8	CAPTIVEAIRE DRAWINGS
M4.9	CAPTIVEAIRE DRAWINGS
M4.10	CAPTIVEAIRE DRAWINGS
M4.11	CAPTIVEAIRE DRAWINGS
M4.12	CAPTIVEAIRE DRAWINGS
M4.13	CAPTIVEAIRE DRAWINGS
M4.14	CAPTIVEAIRE DRAWINGS
M4.15	CAPTIVEAIRE DRAWINGS
M5.1	MECHANICAL SPECIFICATIONS
M5.2	MECHANICAL SPECIFICATIONS
M5.3	MECHANICAL SPECIFICATIONS

		MECHANICAL GENERAL NOTES		M	FCHA			/MBC
<u> </u>			DIFFUS	ER TAG				EXHAUST
	1. 2.	MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL AUTHORITY'S BUILDING CODES. THE MECHANICAL CONTRACTOR SHALL COORDINATE DUCTWORK INSTALLATION		ECK SIZE ENTIFYEF CFM	R NECK SIZ	S1 E SAME SIZ OTHERWISE	R1 E AS CON	E1 NNECTING D
	3.	WITH ARCHITECTS/OWNER'S REPRESENTATIVE IN FIELD AND OTHER TRADES. CORE-DRILL OR SAW-CUT OR SLEEVE FLOOR, WALL, ROOF, ETC. AS REQUIRED FOR PIPING OR DUCTWORK AND FIRE-STOP OPENING AROUND PIPE OR	4	Ţ	MD-35 OI MANUAL	VOLUME D PPOSED BL VOLUME D	LADE DAI	ŇPÉR OR N WITH LOCK
		DUCTWORK. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING OR CUTTING. NOTIFY ARCHITECT OF ANY DISCREPANCIES.				NT HANDLI ALLY INSUL ARINGS.	•	
		THE CONTRACTOR SHALL WARRANTEE ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP FOR ONE YEAR FROM SUBSTANTIAL COMPLETION.	<u>}</u>		OPERAT	VOLUME D OR ROTO-1 OR AND MC	TWIST RT	r-wģa wof
	5.	ALL CONTRACTOR FABRICATED AND MANUFACTURER FABRICATED COMPONENTS OF THE OUTSIDE AIR, SUPPLY AIR, RETURN AIR AND EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED AIR-TIGHT. PIPE OPENINGS IN SYSTEM COMPONENTS SHALL HAVE SHEET METAL BAFFLES, SET IN SEALANT, TO PREVENT				OSTAT WITH	+ DEVICE	CONTROL
		LEAKAGE.)	SMOKE [DETECTOR		
	6.	THE MECHANICAL CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS AS SHOWN, NOTED AND SPECIFIED. EQUIPMENT MAY NOT BE SUBSTITUTED UNLESS WRITTEN APPROVAL BY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE IS OBTAINED. ANY CHANGES TO THE DUCTWORK LAYOUT WILL NECESSITATE SUBMISSION OF SHEET METAL SHOP DRAWINGS FOR ENGINEER'S REVIEW. ANY UNAUTHORIZED CHANGES WILL BE REMOVED AT CONTRACTOR'S EXPENSE, IF DEEMED NECESSARY BY ARCHITECT, ENGINEER, OR OWNER'S		⊴ ⊒⊷≁		. SUPPLY D . RETURN C		
	7.	REPRESENTATIVE.	XXX	, ××,	AIRFOIL TURNS.	TURNING V	/ANES, T	YPICAL FO
		BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND	*	-T	CFM-TRA	ANSFER AIF	 ז	
		INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO	*	-S	CFM-SUF	PPLY AIR		
		FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL		-R	CFM-RE	TURN AIR		
		CODES AND ORDINANCES AND SUBJECT TO INSPECTION.						
	8.	ALL DUCTWORK AND PIPING THAT IS EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE,		-E 2D		HAUST AIR		
		UNLESS OTHERWISE NOTED. VERIFY ELEVATIONS OF EXPOSED DUCTWORK WITH ARCHITECT AND OBTAIN ARCHITECT'S APPROVAL PRIOR TO FABRICATION OR INSTALLATION.		,	CONDEN			
	9.	ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED IRON SHEETMETAL AND BE FABRICATED ACCORDING TO THE S.M.A.C.N.A. LOW VELOCITY DUCT MANUAL,		ME	ECHA	NICAL		BREV
		ASHRAE 1996 HANDBOOK VOLUME "HVAC SYSTEMS AND EQUIPMENT". ALL ELBOWS SHALL HAVE PROPER RADIUS, OR MECHANICAL CONTRACTOR SHALL		EC	UH E			IT HEATER
		PROVIDE DOUBLE THICKNESS, AIRFOIL TURNING VANES REQUIRED BY S.M.A.C.N.A. NO SQUARE THROAT ELBOWS SHALL BE INSTALLED WITHOUT DOUBLE THICKNESS				XHAUST FAI		
		TURNING VANES.		EH	UH E) RIZONTA	L UNIT HEAT
	10.	ALL BRANCH SUPPLY, RETURN, EXHAUST DUCTS SHALL HAVE (VD) MANUAL		EW	<u>'UH</u> Е		ALL UNIT I	HEATER
		VOLUME DAMPERS INSTALLED FOR BALANCING TO INCLUDE REMOTE OPERATORS FOR INACCESSIBLE LOCATIONS.		DO	<u>as</u> d	DEDICATED C	JUTDOOR	AIR SYSTEM
	11.	. PROVIDE A VOLUME DAMPER FOR EVERY INLET AND OUTLET (DIFFUSERS,		A.		ACCESS DOC		
		REGISTERS, GRILLES, ETC.) OF THE DUCTWORK DISTRIBUTION SYSTEMS WHETHER SHOWN OR NOT ON THE PLANS. PROVIDE ADDITIONAL VOLUME		A.F				
		DAMPERS OR EXTRACTORS AT BRANCH TAKE-OFFS FROM DUCTWORK MAINS AS REQUIRED TO ACHIEVE AIR VOLUME DISTRIBUTION AND BALANCING.		AR			JR ARCHI	TECTURAL
	10	. ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH NEOPRENE,		BLI		BUILDING		
	12.	DOUBLE COATED, HEAVY GLASS FABRIC, VIBRATION ELIMINATION CONNECTIONS,		CL				
		(F.C.) FLEXIBLE CONNECTIONS, EQUAL TO VENTFABRICS, INC. TYPE VENTGLAS, UNLESS NOTED OTHERWISE.		CC		COLUMN		
	13.	. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" AWAY FROM EXHAUST		CC	DN C	ONCRETE		
		DISCHARGE OPENINGS AND PLUMBING VENT STACKS.		CON	ST'N C	CONSTRUCT	ION	
	15.	. SUPPLY, RETURN AND OUTSIDE AIR RECTANGULAR/SQUARE DUCTWORK SHALL BE MINIMUM R-6, INSULATED WITH 2" THICK FIBERGLASS DUCTWRAP THAT MEETS		CON	IT'R C	CONTRACTO	R	
		ASTM E8S STANDARD. SIZES SHOWN ON PLAN ARE INSIDE FREE AREA. ROUND SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH MINIMUM R-6, 2"		DE	ET. D	DETAIL		
		THICK, FIBERGLASS DUCTWRAP WITH FSK FOIL VAPOR BARRIER THAT MEETS ASTM E8S STANDARD. ROUND SUPPLY AND RETURN DUCTWORK EXPOSED TO		DE		DISHWASHEF	₹ EXHAUS	ST FAN
		VIEW AND LOCATED IN THE CONDITIONED SPACE SHALL NOT BE INSULATED.		D DV		OWN RAWING		
	16.	THE INSULATION SHALL MEET LOCAL ENERGY CODE REGARDLESS OF ABOVE		EA				RATURE
		STATEMENT.		EW				
	17.	. THE MECHANICAL SYSTEMS SHALL BE COMPLETE WITH ALL NECESSARY APPURTENANCES FOR A COMPLETE OPERATING SYSTEM.		EC	UH E		EILING-MC	
	18.	. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING		EP	UH E	LECTRIC PL	ENUM UN	IT HEATER
		AS REQUIRED. THERMOSTATS AND SENSORS SHALL BE AS SPECIFIED, OR AS FURNISHED WITH THE EQUIPMENT. PROVIDE TRANSFORMERS AS REQUIRED.		ET	R E	XISTING TO	REMAIN	
	19.	. PROVIDE UL APPROVED FIRE DAMPERS FOR ALL PENETRATIONS THROUGH FIRE		FL		LOOR		
		RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS. INSTALL FIRE DAMPERS AS PER MANUFACTURER'S DIRECTIONS AND AS PER UL GUIDE LINES. PROVIDE		F		LEXIBLE CO		N
		ACCESS PANELS IN BUILDING CONSTRUCTION AS REQUIRED FOR SERVICING OF FIRE DAMPERS.		FC		LAT ON BOT		
				G		CAUGE		
	20	. MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES SHOWN ON PLAN. BALANCING CONTRACTOR SHALL USE DUCT MOUNTED MANUAL		KE			HAUST FA	N
		DAMPERS FOR AIR SYSTEM BALANCING.		LA		EAVING AIR		
	21	. ALL MECHANICAL EQUIPMENT ELECTRICAL'S & STRUCTURAL REQUIREMENTS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO PURCHASE AND		МТ	"D N	OUNTED		
		INSTALLATION OF THE UNITS. NOTIFY ARCHITECT/ENGINEER WITH DISCREPANCIES IMMEDIATELY.		N	rs n	IOT TO SCAL	_E	
				0	c To	ON CENTER		



STAINLESS STEEL

TOILET EXHAUST FAN

TOTAL STATIC PRESSURE

AIRFOIL TURNING VANES

UNLESS NOTED OTHERWISE

DIAMETER/ROUND

PRESSURE REGULATOR

THERMOSTAT

WITH

SS

Т

TEF

TSP

ΤV

UCD

UNO

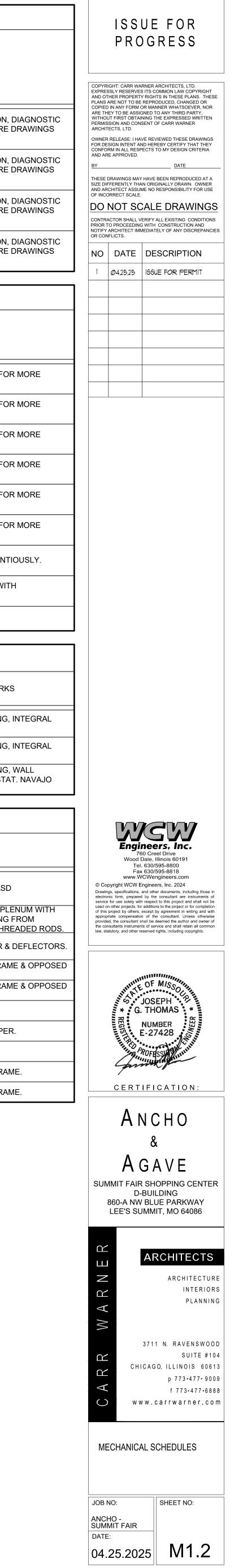
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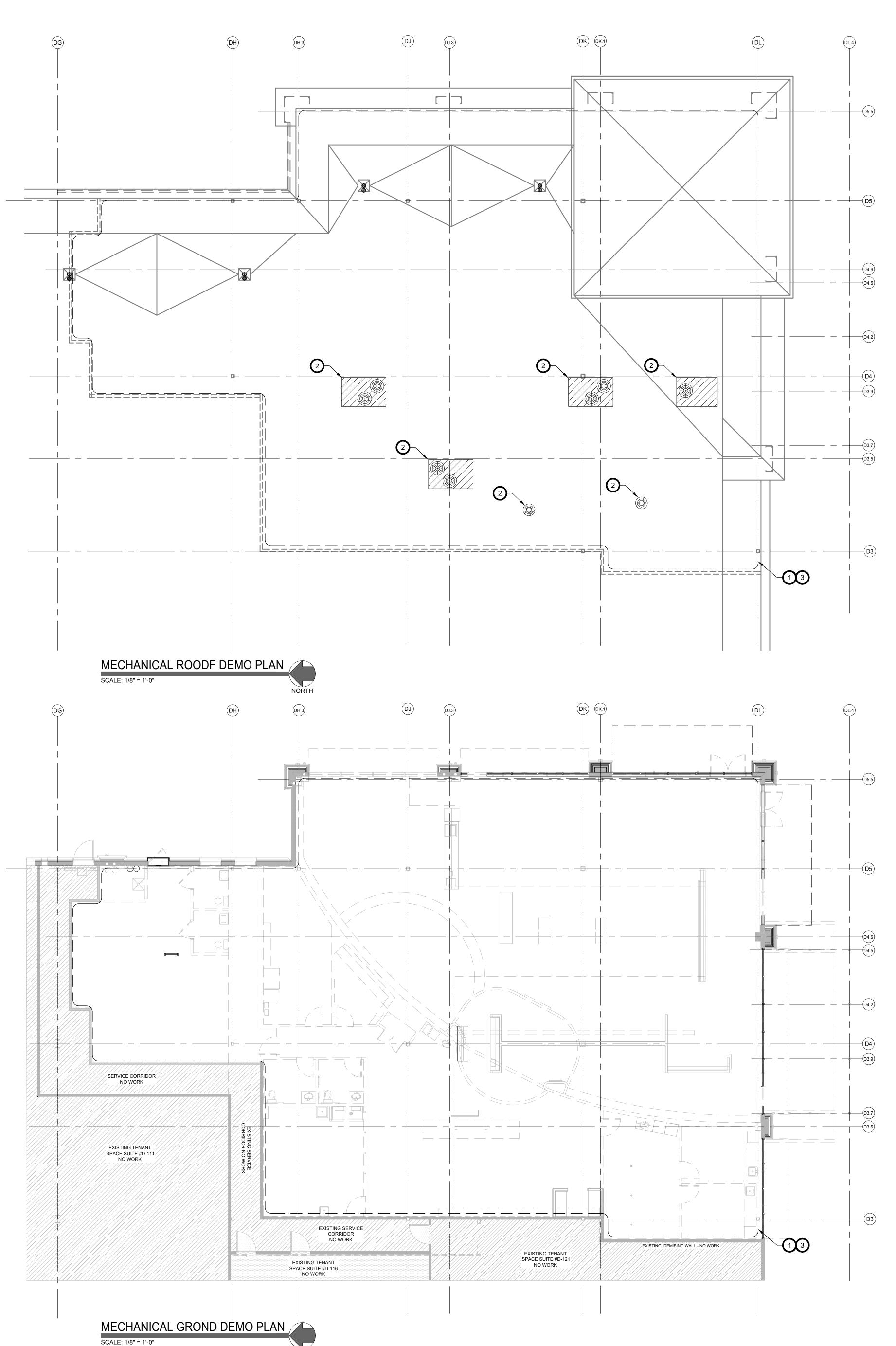
Ø

2 PSI 7" W.C.

	GAS CONNECTION SCHEDULE										DEDICATED OUTDOOR AIR SYSTEM UNIT SCHEDULE																		
DESIG'N	FIXTURE/EQUIPMENT	QTY.	UNIT DEMAND BTUH	TOTAL DEMAND BTUH	TOTAL CFH	CONNECTION SIZE							COOLING			H	HEATING				ELECTR	ICAL							
DOAS-1	DEDICATED OUTDOOR AIR SYSTEM	1	630,579	630,579	631	1 1/4"	DESIG'N SERVICE				O.A. STA M PRES	ATIC	L.A.T. TO		E E.A.T.	L.A.T.			IERMAL					ISMRE (IEER)	UNIT VEIGHT			REMARKS	
DOAS-2	DEDICATED OUTDOOR AIR SYSTEM	1	630,579	630,579	631	1 1/4"				(CFM)	("W		B) (°F DB/WB) (ME	3H) (MBH)	(°F DB)	L.A.T. (°F DB)	INPUT OU (CFH) ((CFH)	(%)	FAN HP	PH VOLTA	GE MCA			(LBS)				
DOAS-3	DEDICATED OUTDOOR AIR SYSTEM	1	268,968	268,968	269	1"																							
DOAS-4	DEDICATED OUTDOOR AIR SYSTEM	1	268,968	268,968	269	1"	DOAS-1 DINING	CAPTIVEAIRE CAS-HVAC4-I.700-30-40T-	40.0	6,125 6,1	25 0.	.75 99.0/75	0 47.9/47.9 48	35 313.3	0.0	70.0	630.6	510.8	81.0	7.5	3 460	93	100	5.9 (17.1)	5767 SYS		HIGH ROOF CURB. S		T WITH FAULT DETECTION, DI E ONLY. SEE CAPTIVEAIRE DR
WH-1	WATER HEATER	1	199,900	199,900	200	3/4"																							
WH-2	WATER HEATER	1	199,900	199,900	200	3/4"	DOAS-2 DINING	CAPTIVEAIRE CAS-HVAC4-I.700-30-40T-	2 40.0	6,125 6,1	25 0.	.75 99.0/75	0 47.9/47.9 48	35 313.3	0.0	70.0	630.6	510.8	81.0	7.5	3 460	93	100	5.9 (17.1)	5767 SYS		HIGH ROOF CURB. S		T WITH FAULT DETECTION, DI E ONLY. SEE CAPTIVEAIRE DR
19	36" SALAMANDER	1	40,000	40,000	40	1/2"																					-		
20	60" TORTILLA GRIDDLE	1	140,000	140,000	140	3/4"	DOAS-3 KITCHEN	CAPTIVEAIRE CAS-HVAC2-I.300-18-13T	13.0	3,237 1,5	521 0.	.75 99.0/75	0 53.9/53.1 14	7.4 107.0	0.0	70.0	269.0	217.9	81.0	3	3 460	39	40	5.5 (14.2)	2263 SYS		HIGH ROOF CURB. S		T WITH FAULT DETECTION, DI E ONLY. SEE CAPTIVEAIRE DR
59	STACKED CONVECTION OVEN	1	50,000	50,000	50	3/4"																							T WITH FAULT DETECTION, DI
60	RANGE W/OVEN	1	225,000	225,000	225	1"	DOAS-4 KITCHEN	CAPTIVEAIRE CAS-HVAC2-I.300-18-13T	13.0	3,237 1,5	521 0.	.75 99.0/75	0 53.9/53.1 14	7.4 107.0	0.0	70.0	269.0	217.9	81.0	3	3 460	39	40	5.5 (14.2)	2263 SYS		HIGH ROOF CURB. S		E ONLY. SEE CAPTIVEAIRE DR
61	STOCK POT RANGE	1	160,000	160,000	160	3/4"																							
62	FRYERS	2	150,000	300,000	300	3/4"		AIR BALANC	E SCHE											E	XHAUS		N SCH	IEDUL	E				
69	RANGE W/ CABINET BASE	1	132,000	132,000	132	3/4"	СОМРО												EXTE			CTRICAL							
71	FRYERS W/ FILTERS	2	110,000	220,000	220	3/4"	DOAS	CFM CFM	AIR CFM 6125	CFM		DESIG'N	SERVICE	MANUFACT		MODEL NO.	TYP	E CF	M PRES	ATIC - SSURE -	MOTOR		PHASE	FAN DRIVE	BACKDRAF DAMPER	T OPERATII WEIGH (LBS)	NG	REI	MARKS
72	TILT SKILLET	1	91,000	91,000	91	3/4"	DOAS		6125										("W	V.C.)	(WATTS)	VOLTAGE	(Ø)						
73	UPRIGHT BROILER	1	80,000	80,000	80	3/4"	DOAS		1521			EF-1	TYPE II HOOD	CAPTIVE	AIRE	DU50HFA	ROC MOUN)F TED 1,12	25 0.	.25	0.5	115	1	DIRECT	NONE	113	SHOWN FOR RE	FERENCE ONLY. SEE C	APTIVEAIRE DRAWINGS FOR M
74	48" CHEESEMELTER	1	40,000	40,000	40	3/4"	DOAS EF-		1521 0	-1125																			
75	72" GRIDDLE	1	168,000	168,000	168	3/4"	EF-	2 0 4583	0	-4583		EF-2	TYPE I HOOD	CAPTIVE	AIRE	DU240HFA	ROC MOUN	TED 4,58	33 0.	.75	3	460	1	DIRECT	NONE	349	INFORMATION.	-ERENCE ONLY. SEE C	APTIVEAIRE DRAWINGS FOR N
78	36" GRIDDLE	1	84,000	84,000	84	3/4"	EF-		0	-4100 -2000		EF-3	TYPE I HOOD	CAPTIVE		DU240HFA	ROC MOUN	OF TED 4,10	00 0.	.65	2	460	1	DIRECT	NONE	297	SHOWN FOR RE	FERENCE ONLY. SEE C	APTIVEAIRE DRAWINGS FOR M
96	36" CHEESEMELTER	1	30,000	30,000	30	3/4"	EF-	5 0 420	0	-420							ROC										SHOWN FOR RE	FERENCE ONLY SEE C	APTIVEAIRE DRAWINGS FOR N
98	4 BURNER RANGE	1	164,000	164,000	164	3/4"	EF-		0	-140	JLTING	EF-4	TYPE I HOOD	CAPTIVE	AIRE	DU85HFA	MOUN	TED 2,00	0.00	.65	0.75	460	3	DIRECT	NONE	138	INFORMATION.		
	FRYERS W/ FILTERS	2	70,000	140,000	140	3/4"	EF-		0	BUIL	DING SSURE	EF-5	BATHROOM	CAPTIVE	AIRE	DR12HFA	ROC MOUN	F 42	0 0.	.50	0.25	115	1	DIRECT	INTEGRAL	. 74	SHOWN FOR RE INFORMATION.	FERENCE ONLY. SEE C	APTIVEAIRE DRAWINGS FOR M
	IE REQUIRED FROM GAS METER TH A PRESSURE DROP OF 1.0 PSI			4,262,894			тот	AL 18524 16650	15292	-13418 18	374	EF-6	BATHROOM	CAPTIVE	AIRE	DR12HFA	ROC MOUN	DF 14	0 0.	.50	0.25	115	1	DIRECT	INTEGRAL	. 74	SHOWN FOR RE INFORMATION.	FERENCE ONLY. SEE C	APTIVEAIRE DRAWINGS FOR M
												EF-7	MOP	LOREN C	оок	GC-146	CEILI	NG 50) 0.	.50	(31)	115	1	DIRECT	INTEGRAL	. 12	WHITE PLASTIC	GRILLE, ISOLATOR DISC	CONNECT. RUN'S CONTENTIO
												EF-8	ELECTRICAL ROOM	LOREN C	OOK AC	E-D-120C15D	D ROC	0F 1,00	0.00	.70	1/4	115	1	DIRECT	INTEGRAL	. 54	ROOF CURB, BA THERMOSTAT (9		CONNECT. INTERLOCK WITH
												NOTES: 1. ALL MOTO	ORS SHALL BE 'OD	P' WITH 1.15 S	SERVICE FAC	TOR, UNLESS	S OTHERWIS	SE NOTED.		ŀ									

	VENTILATION AIR SCHEDULE														UNIT HEATER SCHEDULE - ELECTRIC												
ROOM AREA # (S.F.)	ROOM NAME	CODE NAME	ROOM #	OW RATE	OCC. DENSITY PER/1000	,	JST RATE		NUMBEF	OR VENTILA R OF PEOPLE	Ē	REMARKS	DESIG'I	N SERV	ICE	MFR.	MODEL NO.		HEAT OUTPUT (BTU/HR)		MENSION HEIGHT (IN)			RICAL HASE (Ø) AMF	MOUNTING S TYPE	MOUNTING HEIGHT	GREMARKS
# (0.1.)			WC+UR CFM/ PERSO				CFM/FIXT	# OF PERSONS	GA(PER) OA(SF)	TOTAL OA		EWUH-	1 MEN RESTR		QMARK	AWH4507F	4.8	16378	15-3/4	19-5/16	4	277	1 17.5	WALL	12" A.F.F	RECESSED MOUNTING, IN THERMOSTAT.
100 106	VESTIBULE	CORRIDORS (PUBLIC SPACES)	0	0.06	0	0	0	0	0	6.36	6.36																
101 257	HOST	LOBBIES (HOTELS,MOTELS,RESORT, DORM)	7.5	0.06	0	0	0	2	15	15.42	30.42		EWUH-	2 WOMI RESTR		QMARK	AWH4507F	4.8	16378	15-3/4	19-5/16	4	277	1 17.3	WALL	12" A.F.F	RECESSED MOUNTING, IN THERMOSTAT.
102 1535	MAIN DINING	DINING ROOM (FOOD/BEV SERVICE)	7.5	0.18	70	0	0	68	510	276.3	786.3																RECESSEO MOUNTING, V
103 56	EXPO	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	0	0	0	0		ECUH-	1 VESTI	BULE	QMARK	CDF547	4.0	13649	23-3/4	23-3/4	7	277	1 14.4	CEILING	-	MOUNTED THERMOSTAT
104 40	BEVERAGE	CAFETERIA, FAST FOOD (FOOD/BEV SERVICE)	7.5	0.18	100	0	0	1	7.5	7.2	14.7																WHITE COLOR.
105 1166	BAR	BAR, COCTAIL LOUNGE (FOOD/BEV SERVICE)	7.5	0.18	100	0	0	45	337.5	209.88	547.38																
106 606	BAR DINING	DINING ROOM (FOOD/BEV SERVICE)	7.5	0.18	70	0	0	32	240	109.08	349.08								DIF	FUSE	R AN	D GRIL	LE SC	HEDU	_E		
107 199	LOUNGE	DINING ROOM (FOOD/BEV SERVICE)	7.5	0.18	70	0	0	10	75	35.82	110.82																
108 85	CORRIDOR 1	CORRIDORS (PUBLIC SPACES)	0	0.06	0	0	0	0	0	5.1	5.1		PLAN MARK	SERVICE		DULE	BLADE	MOUNTIN LOCATIO	G FASTE		/OUNTIN	MATERIAL	FINISH	MANUFA			REMARKS
109 25	MOP	TOILET ROOMS (PUBLIC SPACES)	0	0	0	0	70	0	0	0	0							LUCATIO	N		5 FRAIVIE				INC		
110 160	MEN'S TOILET	TOILET ROOMS (PUBLIC SPACES)	3 0	0	0	0	70	0	0	0	0																
111 148	WOMEN'S TOILET	TOILET ROOMS (PUBLIC SPACES)	3 0	0	0	0	70	0	0	0	0		S-1	SUPPLY	SEE F	PLANS	DOUBLE DEFLECTION	DUCT	SURF	ACE	TYPE 1	ALUMINUM	NO. 26 WHITE	TIT	JS US30	OFL PROVIDE	AIR SCOOP DAMPER, ASD
112 114	CHIP/ WRAP	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	1	0	0	0																
113 43	KITHCEN ENTRY	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	0	0	0	0		S-2	SUPPLY	6'-0"	LONG 1	" SLOT WIDTH	OPEN		-		ALUMINUM	NO. 26	ТІТ	JS FL-10		TITUS FPB INSULATED PLEI IZE PER DUCT SIZE. HANG F
114 208	APP COOK LINE	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	4	0	0	0			_			1 SLOT	CEILING	i				WHITE				JRE ABOVE. PROVIDE THRE
115 487	COOK LINE 2	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	6	0	0	0		S-3	SUPPLY	242	X24	PERFORATED	CEILING	LAY	′-IN	TYPE 3	ALUMINUM	NO. 26	ТІТ	JS PAS	AA REMOVE	PATTERN CONTROLLER & D
116 76	PREP	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	0	0	0	0						FACE						WHILE				
117 329	COOLER		0	0	0	0	0	0	0	0	0		S-4	SUPPLY	242	X24		CEILING	SURF	ACE/	TYPE 1/ TYPE 3	ALUMINUM	NO. 26 WHITE	TIT	JS TDC	AA BLADE D	WITH RAPID MOUNT FRAME
118 506	COOK LINE 1.1	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	7	0	0	0		0.5		40	×40	LOUVERED						NO 26				
119 166	DISH	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	0	0	0	0		S-5	SUPPLY	12	X12	FACE	CEILING	SURF	ACE	TYPE 1	ALUMINUM	WHITE	TIT	JS TDC	BLADE D	AMPER
120 160	POT WASH	KITCHENS (COOKING) (FOOD/BEV SERVICE)	0	0	0	0.7	0	0	0	0	0		R-1	RETURN	SEE F	PLANS F	IXED LOUVER	DUCT	SURF	ACE	TYPE 1	ALUMINUM	NO. 26 WHITE	TIT	JS 355	FL	
121 85	ICE		0	0	0	0	0	0	0	0	0			DETUDN		V04	1"X1"X1"						NO 26		10 50		OPPOSED BLADE DAMPER.
122 63	STORAGE 1	STORAGE ROOMS (RETAIL)	0	0.12	0	0	0	0	0	7.56	7.56		R-2	RETURN	242	X24	EGG CRATE	CEILING	G LAY	-IIN	TYPE 3	ALUMINUM	WHITE	TIT	JS 50		OPPOSED BLADE DAMPER.
123 56	OFFICE	OFFICE SPACES (OFFICES)	5	0.06	5	0	0	1	5	3.36	8.36		E-1	EXHAUS		PLANS	1"X1"X1" EGG CRATE	CEILING	SURF	ACE	TYPE 1	ALUMINUM	NO. 26 WHITE	TIT	JS 50	=	
124 43	MOP	TOILET ROOMS (PUBLIC SPACES)	0	0	0	0	70	0	0	0	0												NO 26				
125 48	EMPLOYEE TOILET 1	TOILET ROOMS (PUBLIC SPACES)	1 0	0	0	0	70	0	0	0	0		I-1			PLANS F	IXED LOUVER	CEILING	SURF	ACE	TYPE 1	ALUMINUM	WHITE	TIT	355		E WITH RAPID MOUNT FRAME
126 48	EMPLOYEE TOILET 2	TOILET ROOMS (PUBLIC SPACES)	1 0	0	0	0	70	0	0	0	0		T-2	TRANSFE	R SEE F	PLANS F	IXED LOUVER	WALL	SURF	ACE	TYPE 1	ALUMINUM	NO. 26 WHITE	TIT	JS 355		E WITH RAPID MOUNT FRAMI
127 42	ELECTRICAL	STORAGE ROOMS (RETAIL)	0	0.12	0	0	0	0	0	5.04	5.04																
128 311	STORAGE 2	STORAGE ROOMS (RETAIL)	0	0.12	0	0	0	0	0	37.32	37.32																





IORTH

LEGEND

TO BE REMOVED

EXISTING TO REMAIN

PLAN NOTES

____(ETR)

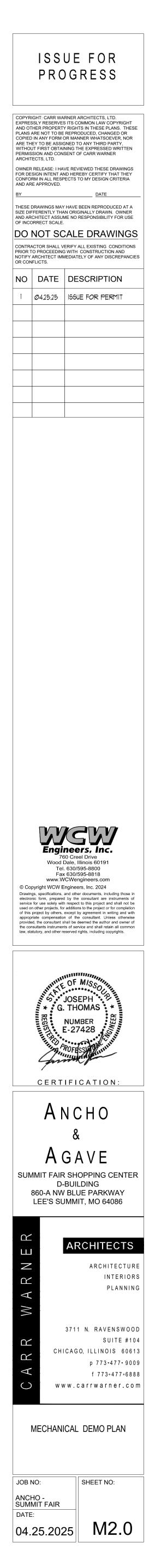
- 1 REMOVE ALL DUCTWORK, DIFFUSERS, THERMOSTATS, SENSORS, AND ASSOCIATED COMPONENTS FROM THIS AREA. DEMOLISHED MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- REMOVE ROOF EQUIPMENT AND PATCH ROOF TO MATCH EXISTING.
 FIELD VERIFY EXIST LOCATIONS.
 ALL OPENINGS IN FLOORS, WALLS, CEILINGS, ROOFS, ETC.,
- RESULTING FROM REMOVAL OF PIPING, DUCTWORK, EQUIPMENT, OR FIXTURES SHALL BE PATCHED TO MATCH THE EXISTING BUILDING CONSTRUCTION. REPAIR WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES.

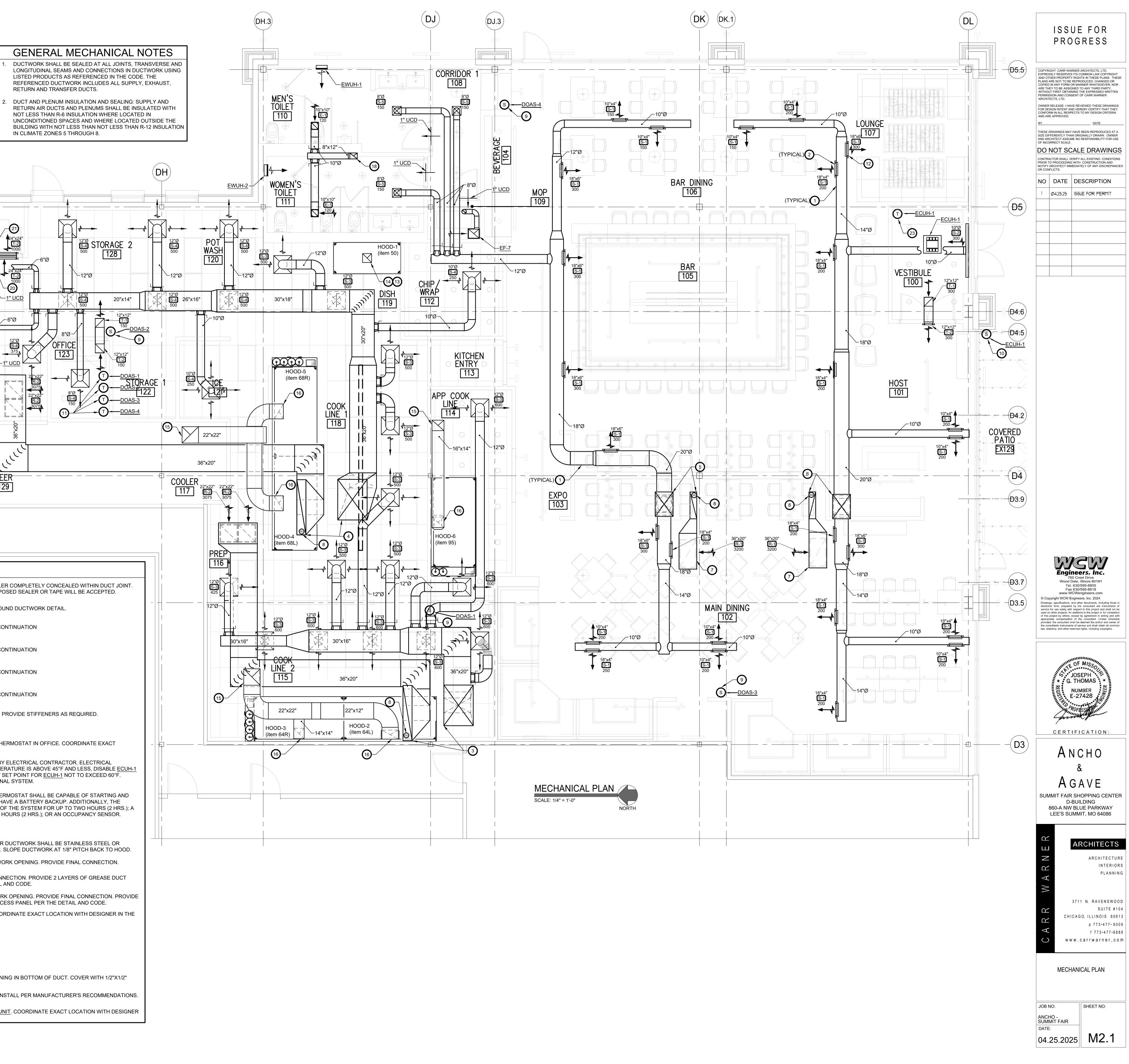
EXISTING CONDITIONS NOTES

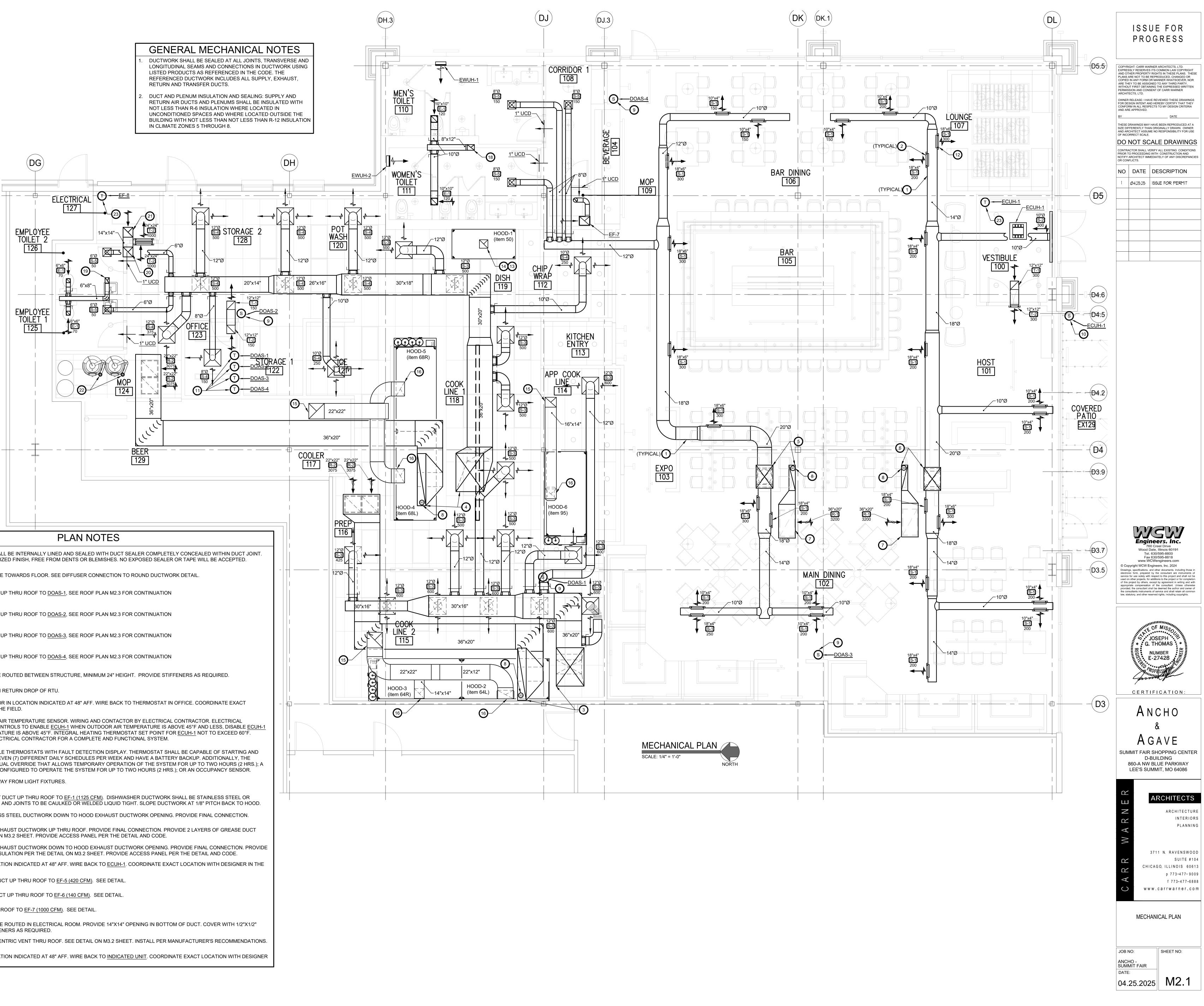
1. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD SURVEY AND DOCUMENTING OF EXISTING SYSTEMS. THESE CONTRACT DRAWINGS SHALL SERVE AS GUIDANCE FOR THE CONTRACTOR ALONG WITH FIELD SURVEY INFORMATION TO INSTALL THE DISTRIBUTION SYSTEMS REQUIRED FOR THE NEW EQUIPMENT AND DEVICES. CONTRACTOR SHALL ALSO BE RESPONSIBLE TO PROVIDE AS-BUILT DRAWINGS OF ALL EXISTING AND NEW SYSTEMS.

2. REFER TO THE ARCHITECTURAL DRAWINGS FOR WALLS, CEILINGS, ETC. THAT ARE BEING REMOVED. ALL EXISTING SYSTEMS INCLUDING PIPING, WIRING, ANCHORING, ETC. THAT ARE EXPOSED SHOULD BE REMOVED OR RELOCATED.

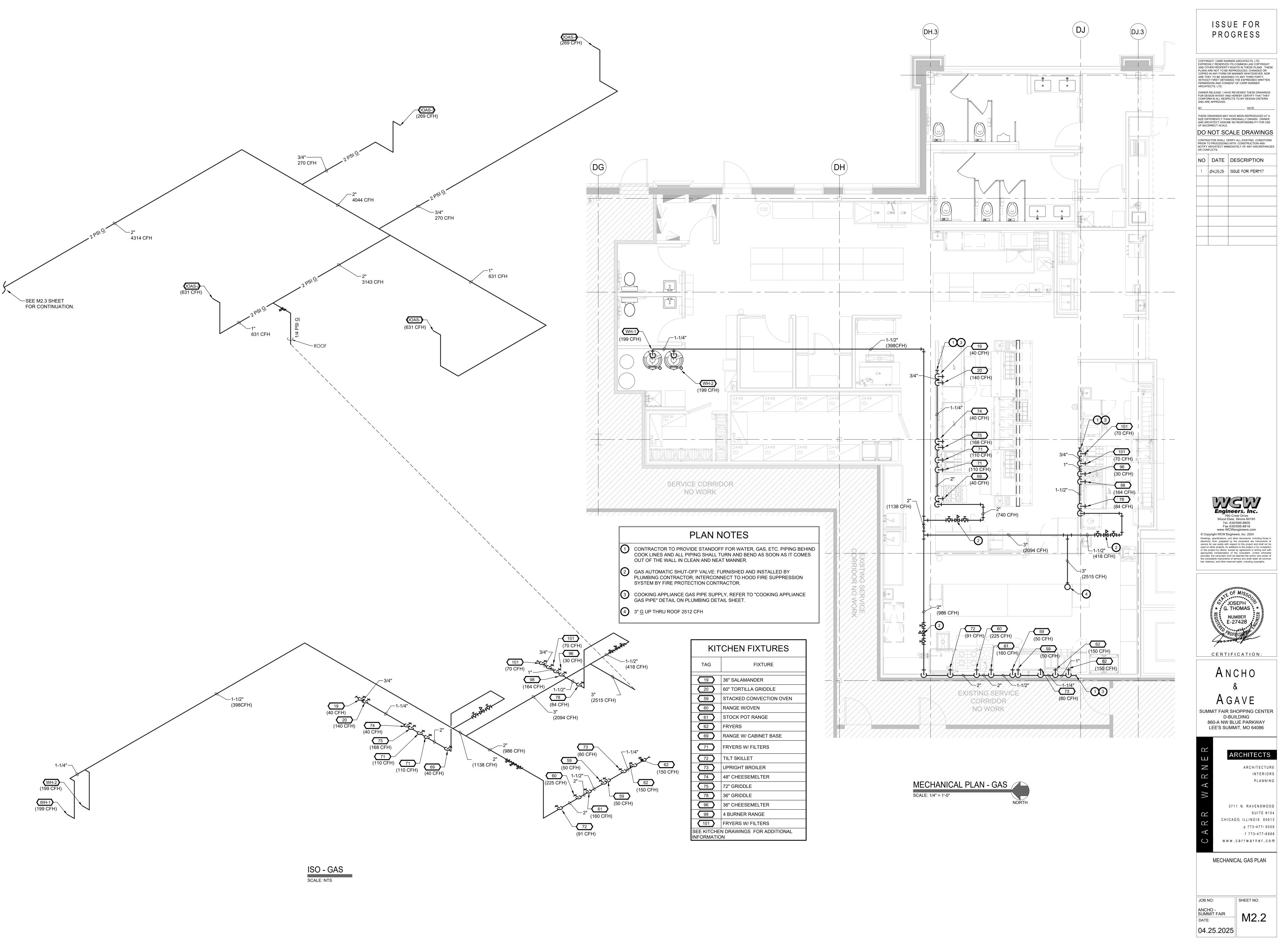
THE CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES INVOLVED IN ACCOMPLISHING THE NEW WORK. PROBLEMS, DISCREPANCIES OR INFORMATION NEEDED SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING PRIOR TO SUBMITTING A PROPOSAL. THE SUBMISSION OF PROPOSAL WILL INDICATE THAT THE CONTRACTOR HAS FULLY UNDERSTOOD AND HAS INCLUDED ALL COSTS FOR THIS PROJECT.

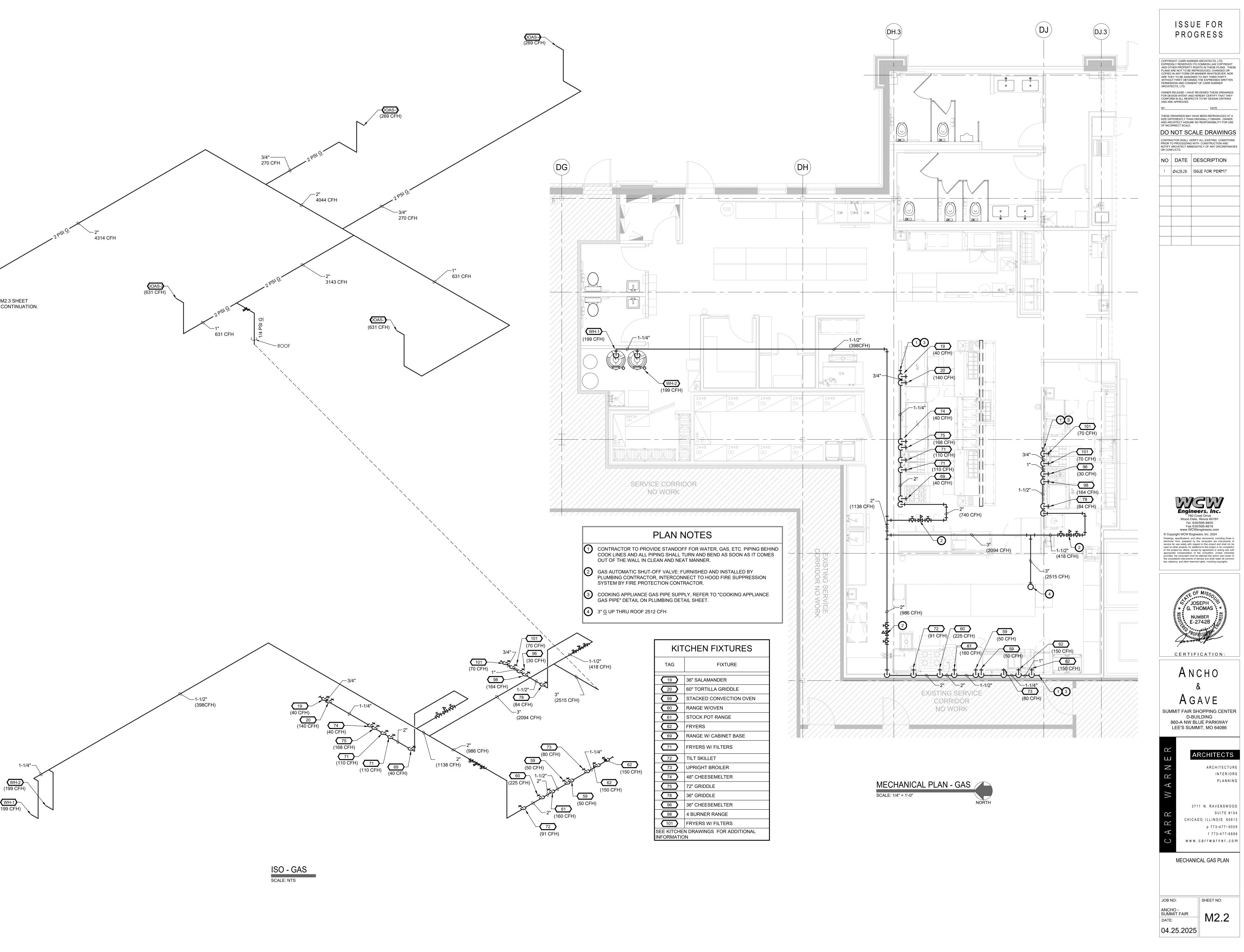


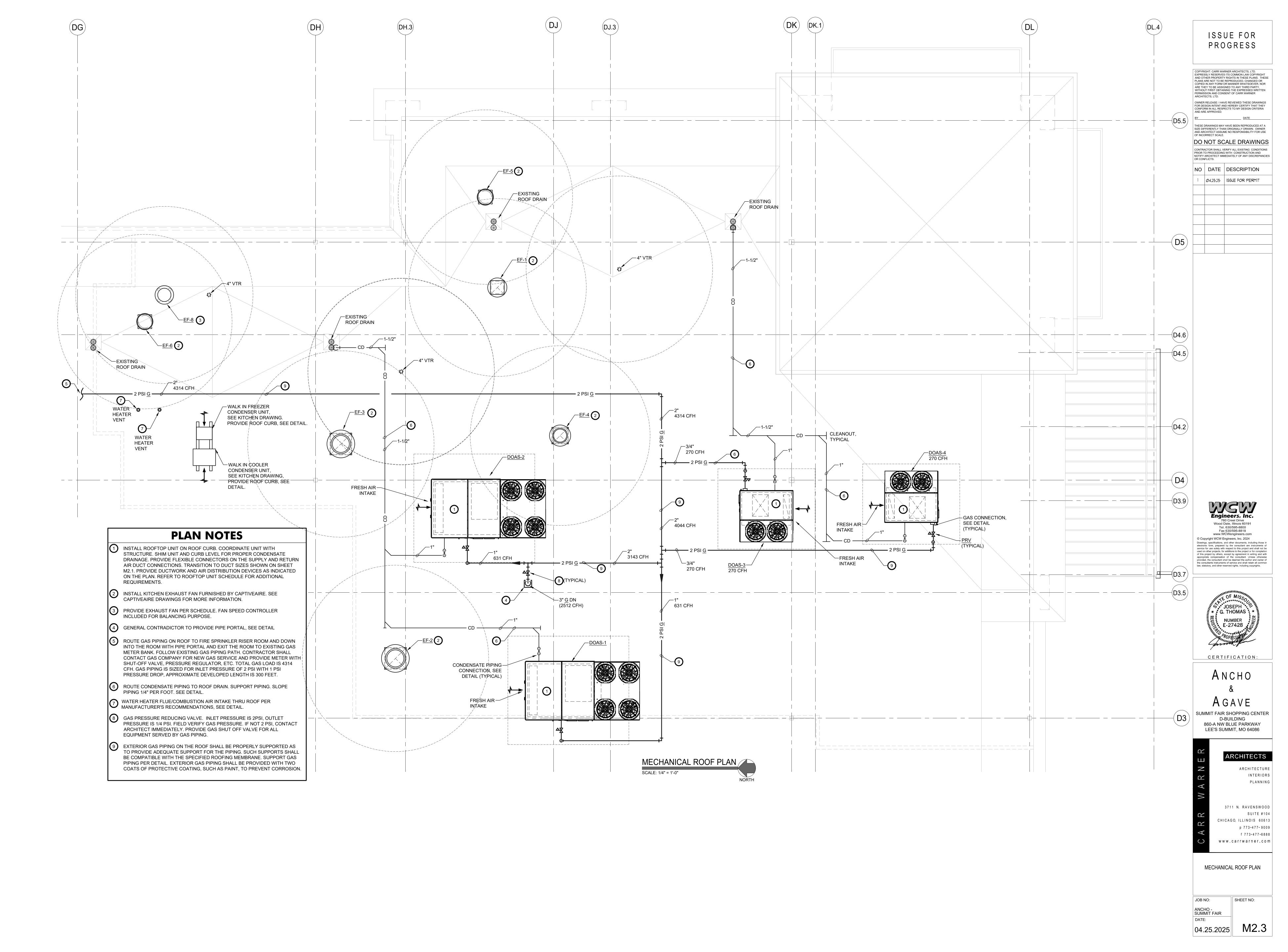


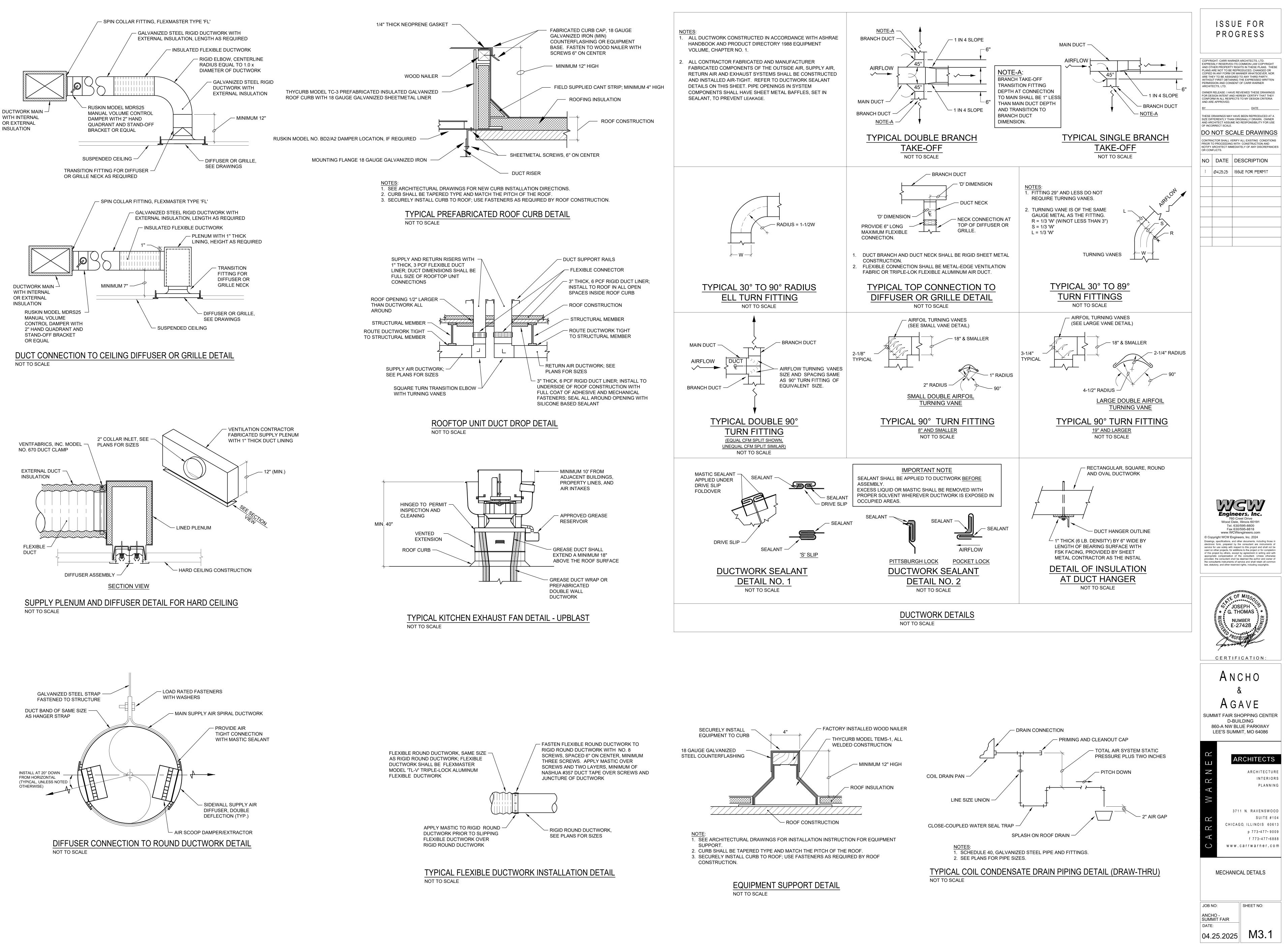


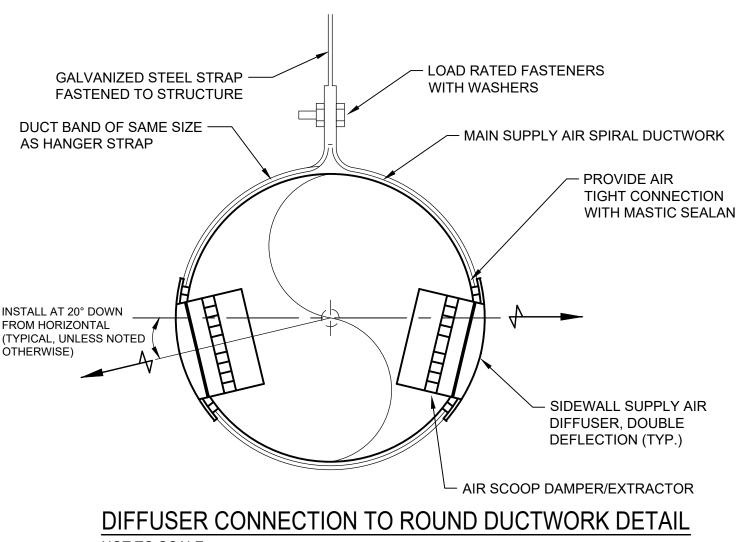
	PLAN NOTES
1	ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED AND SEALED WITH DUCT SEALER COMPLETELY CONCEALED WITH DUCTWORK SHALL BE GALVANIZED FINISH, FREE FROM DENTS OR BLEMISHES. NO EXPOSED SEALER OR TAPE WILL BE AC
2	MOUNT DIFFUSER AT 20° ANGLE TOWARDS FLOOR. SEE DIFFUSER CONNECTION TO ROUND DUCTWORK DETAIL.
3	SUPPLY AND RETURN DUCTS UP THRU ROOF TO DOAS-1, SEE ROOF PLAN M2.3 FOR CONTINUATION
4	SUPPLY AND RETURN DUCTS UP THRU ROOF TO DOAS-2, SEE ROOF PLAN M2.3 FOR CONTINUATION
5	SUPPLY AND RETURN DUCTS UP THRU ROOF TO DOAS-3, SEE ROOF PLAN M2.3 FOR CONTINUATION
6	SUPPLY AND RETURN DUCTS UP THRU ROOF TO DOAS-4, SEE ROOF PLAN M2.3 FOR CONTINUATION
\bigcirc	3200 CFM RETURN DUCT TO BE ROUTED BETWEEN STRUCTURE, MINIMUM 24" HEIGHT. PROVIDE STIFFENERS AS REQUIRE
8	PROVIDE SMOKE DETECTOR IN RETURN DROP OF RTU.
9	PROVIDE TEMPERATURE SENSOR IN LOCATION INDICATED AT 48" AFF. WIRE BACK TO THERMOSTAT IN OFFICE. COORDINAT LOCATION WITH DESIGNER IN THE FIELD.
10	PROVIDE 120 VOLT OUTDOOR AIR TEMPERATURE SENSOR. WIRING AND CONTACTOR BY ELECTRICAL CONTRACTOR. ELEC CONTRACTOR TO PROVIDE CONTROLS TO ENABLE <u>ECUH-1</u> WHEN OUTDOOR AIR TEMPERATURE IS ABOVE 45°F AND LESS, WHEN OUTDOOR AIR TEMPERATURE IS ABOVE 45°F. INTEGRAL HEATING THERMOSTAT SET POINT FOR <u>ECUH-1</u> NOT TO EX COORDINATE WORK WITH ELECTRICAL CONTRACTOR FOR A COMPLETE AND FUNCTIONAL SYSTEM.
1	PROVIDE 7-DAY PROGRAMMABLE THERMOSTATS WITH FAULT DETECTION DISPLAY. THERMOSTAT SHALL BE CAPABLE OF S STOPPING THE SYSTEM FOR SEVEN (7) DIFFERENT DAILY SCHEDULES PER WEEK AND HAVE A BATTERY BACKUP. ADDITION CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO TWO HO MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO TWO HOURS (2 HRS.); OR AN OCCUPANC
(12)	ADJUST DIFFUSERS BLADES AWAY FROM LIGHT FIXTURES.
	12"x12" DISHWASHER EXHAUST DUCT UP THRU ROOF TO <u>EF-1 (1125 CFM)</u> . DISHWASHER DUCTWORK SHALL BE STAINLESS ALUMINUM DUCTWORK. SEAMS AND JOINTS TO BE CAULKED OR WELDED LIQUID TIGHT. SLOPE DUCTWORK AT 1/8" PITCH E
14	12"x12" ALUMINUM OR STAINLESS STEEL DUCTWORK DOWN TO HOOD EXHAUST DUCTWORK OPENING. PROVIDE FINAL COM
15	16 GAGE BLACK IRON STEEL EXHAUST DUCTWORK UP THRU ROOF. PROVIDE FINAL CONNECTION. PROVIDE 2 LAYERS OF G INSULATION PER THE DETAIL ON M3.2 SHEET. PROVIDE ACCESS PANEL PER THE DETAIL AND CODE.
16	16 GAGE BLACK IRON STEEL EXHAUST DUCTWORK DOWN TO HOOD EXHAUST DUCTWORK OPENING. PROVIDE FINAL CONN 2 LAYERS OF GREASE DUCT INSULATION PER THE DETAIL ON M3.2 SHEET. PROVIDE ACCESS PANEL PER THE DETAIL AND C
17	PROVIDE THERMOSTAT IN LOCATION INDICATED AT 48" AFF. WIRE BACK TO <u>ECUH-1</u> . COORDINATE EXACT LOCATION WITH D FIELD.
(18)	12"x8" BATHROOM EXHAUST DUCT UP THRU ROOF TO EF-5 (420 CFM). SEE DETAIL.
(19)	6"x8" BATHROOM EXHAUST DUCT UP THRU ROOF TO EF-6 (140 CFM). SEE DETAIL.
20	6"x8" EXHAUST DUCT UP THRU ROOF TO EF-7 (1000 CFM). SEE DETAIL.
21	1,000 CFM EXHAUST DUCT TO BE ROUTED IN ELECTRICAL ROOM. PROVIDE 14"X14" OPENING IN BOTTOM OF DUCT. COVER WIRE SCREEN. PROVIDE STIFFENERS AS REQUIRED.
(22)	4"Ø PVC WATER HEATER CONCENTRIC VENT THRU ROOF. SEE DETAIL ON M3.2 SHEET. INSTALL PER MANUFACTURER'S REC
23	PROVIDE THERMOSTAT IN LOCATION INDICATED AT 48" AFF. WIRE BACK TO <u>INDICATED UNIT</u> . COORDINATE EXACT LOCATION IN THE FIELD.



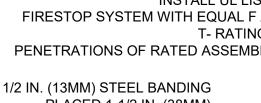


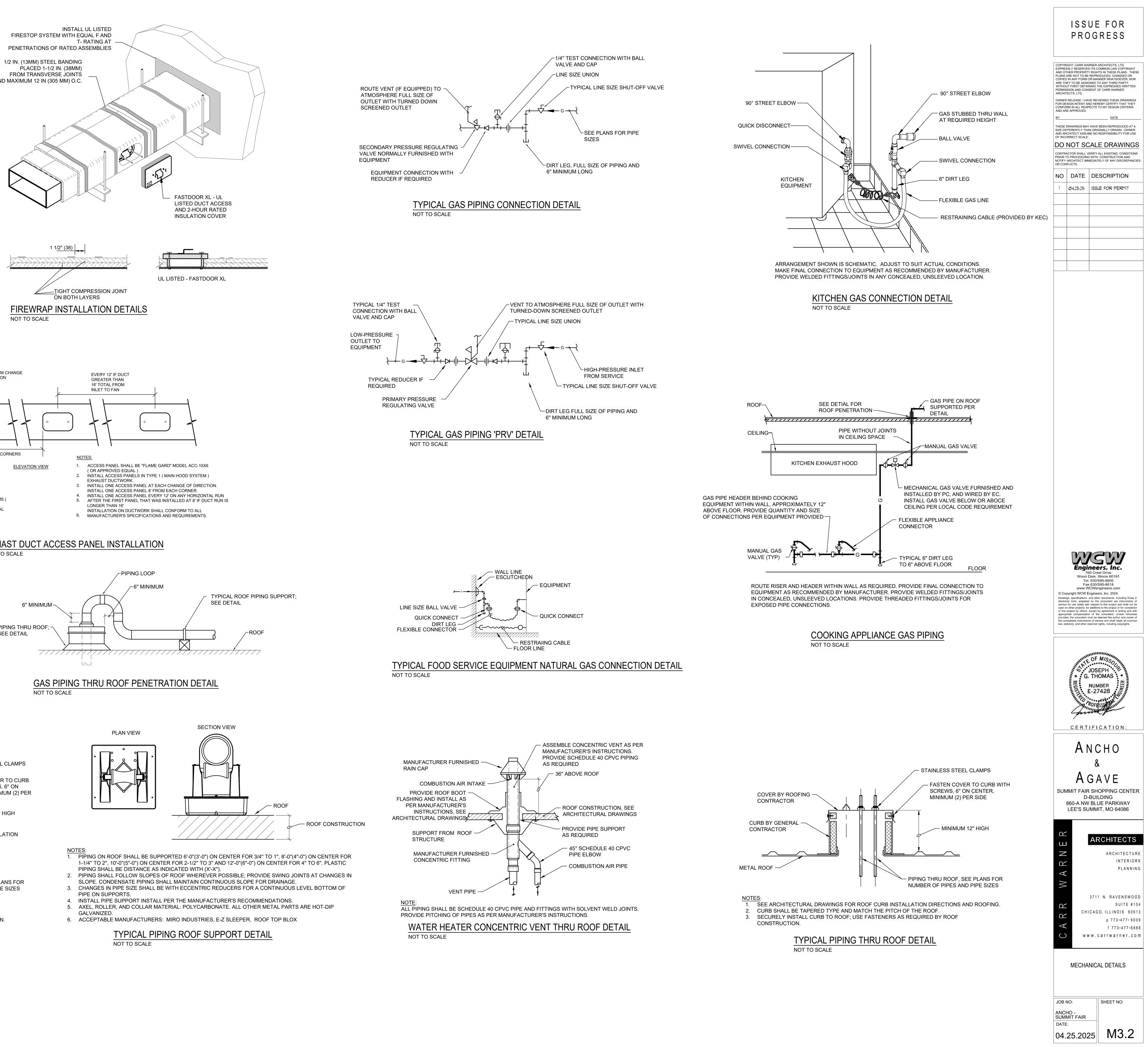


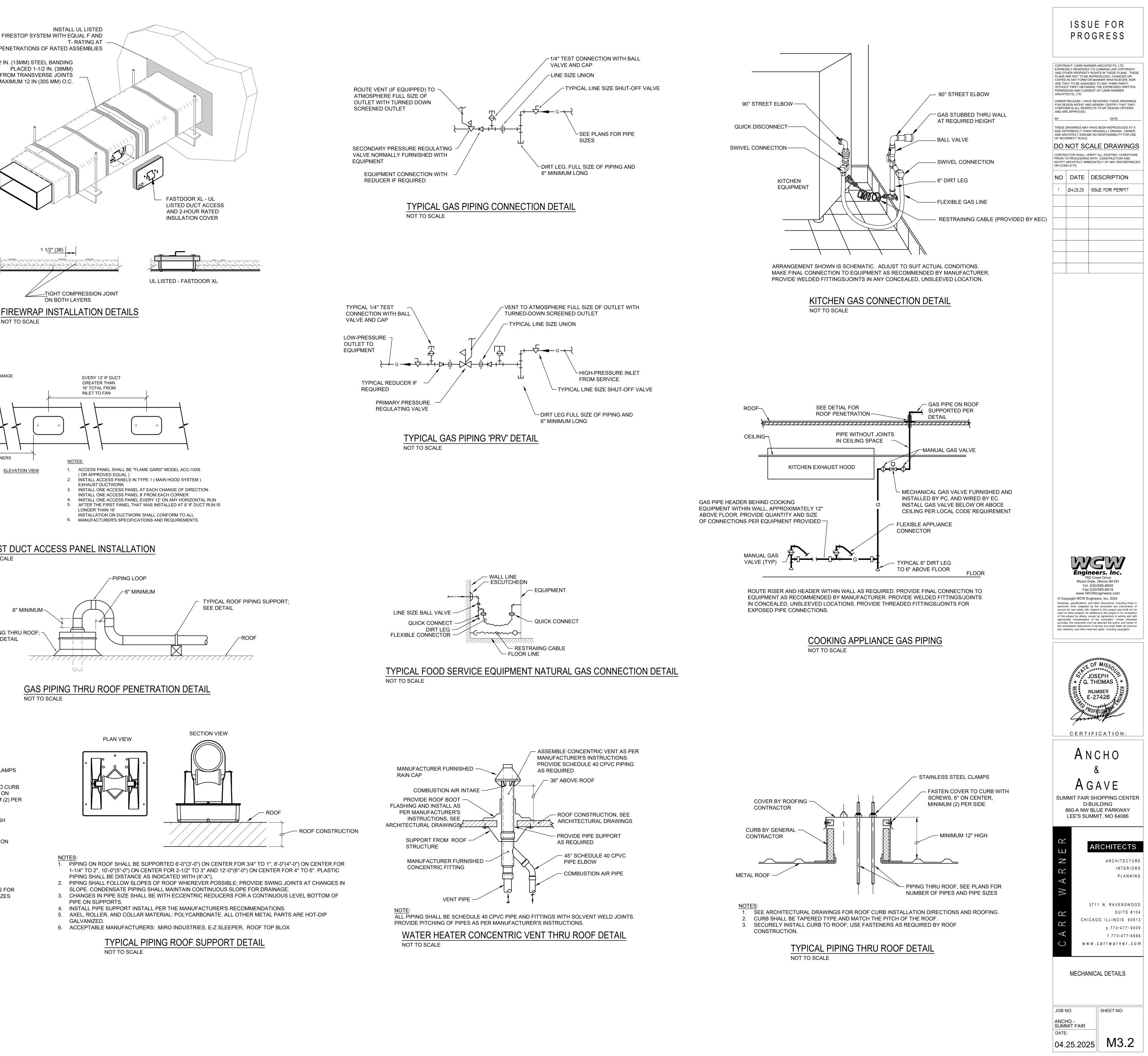


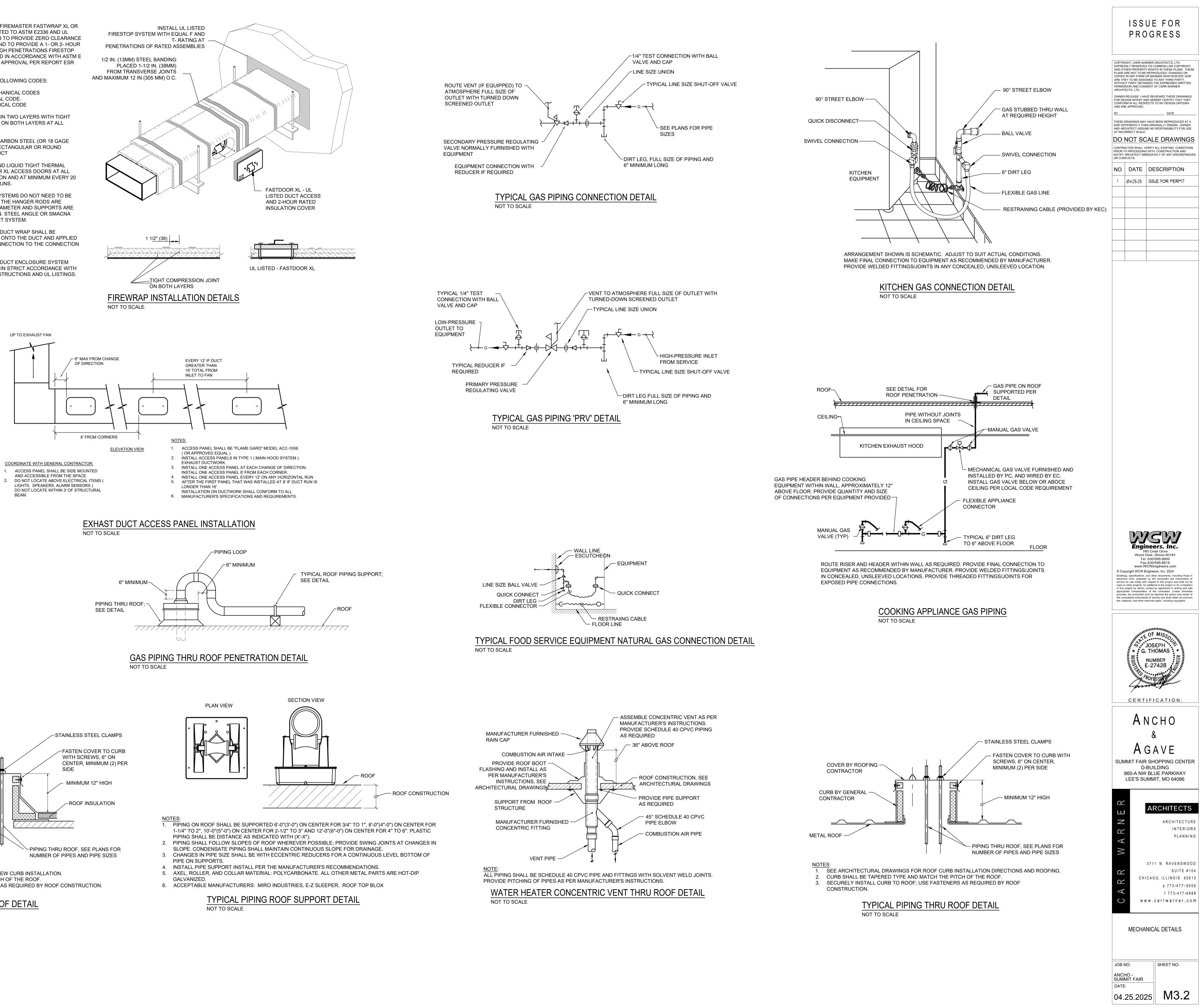


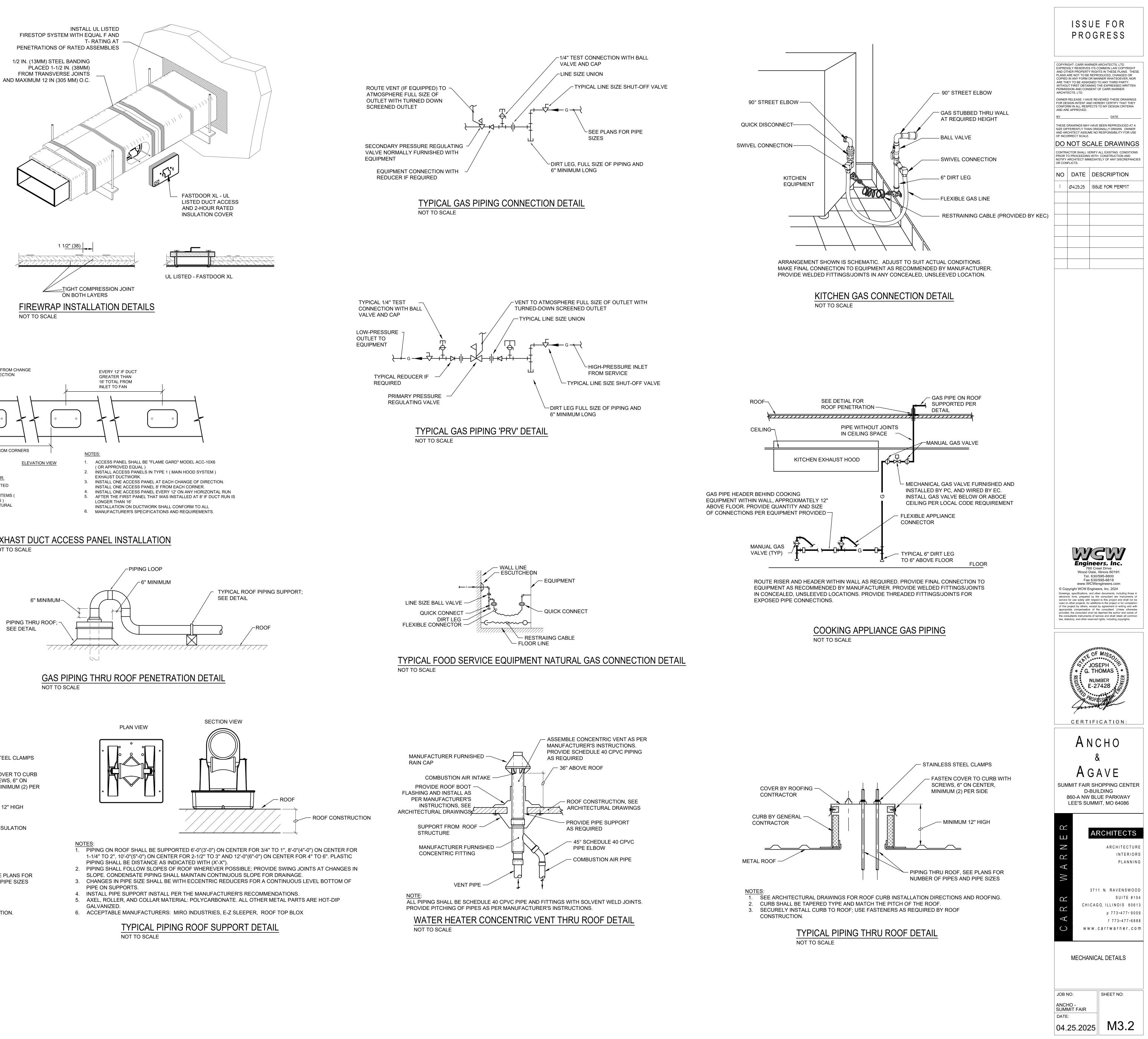
- PYROSCAT XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2- HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC-ES APPROVAL PER REPORT ESR
- INTERNATIONAL MECHANICAL CODES UNIFORM MECHANICAL CODE.
- COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
- STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
- CERAMICS FASTDOOR XL ACCESS DOORS AT ALL FT ON HORIZONTAL RUNS.
- WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
- INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED TO THE FAN.
- SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.

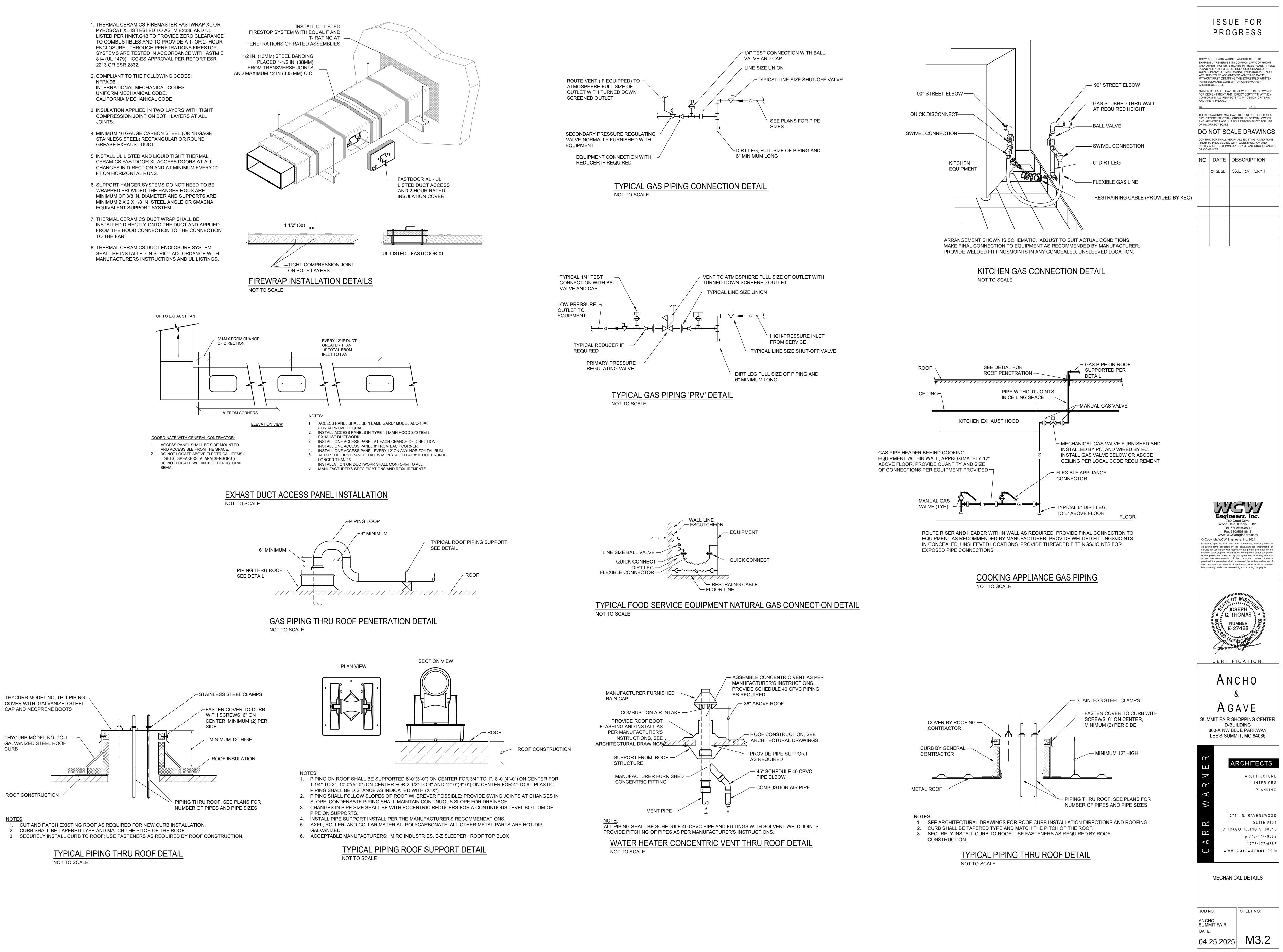






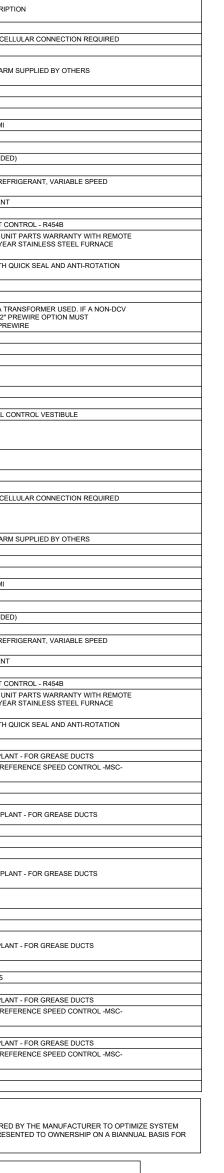


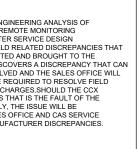


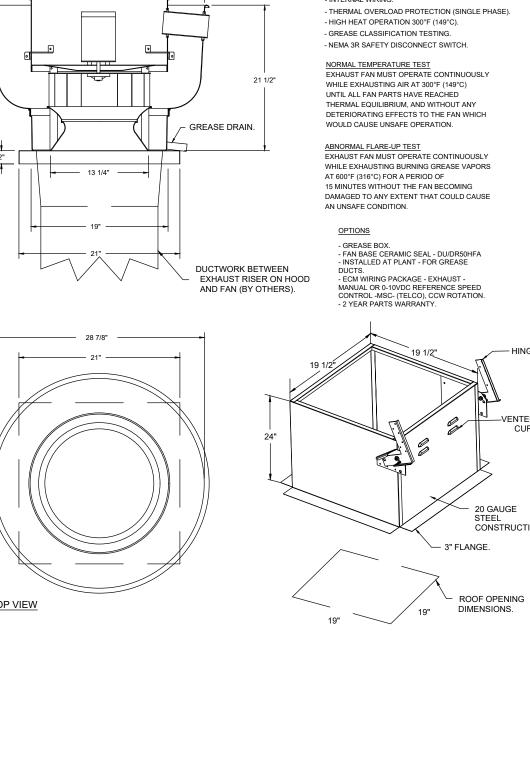


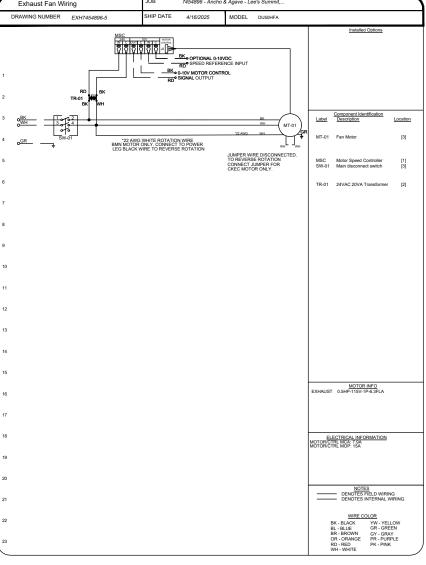
- ROOF CONSTRUCTION	, SEE

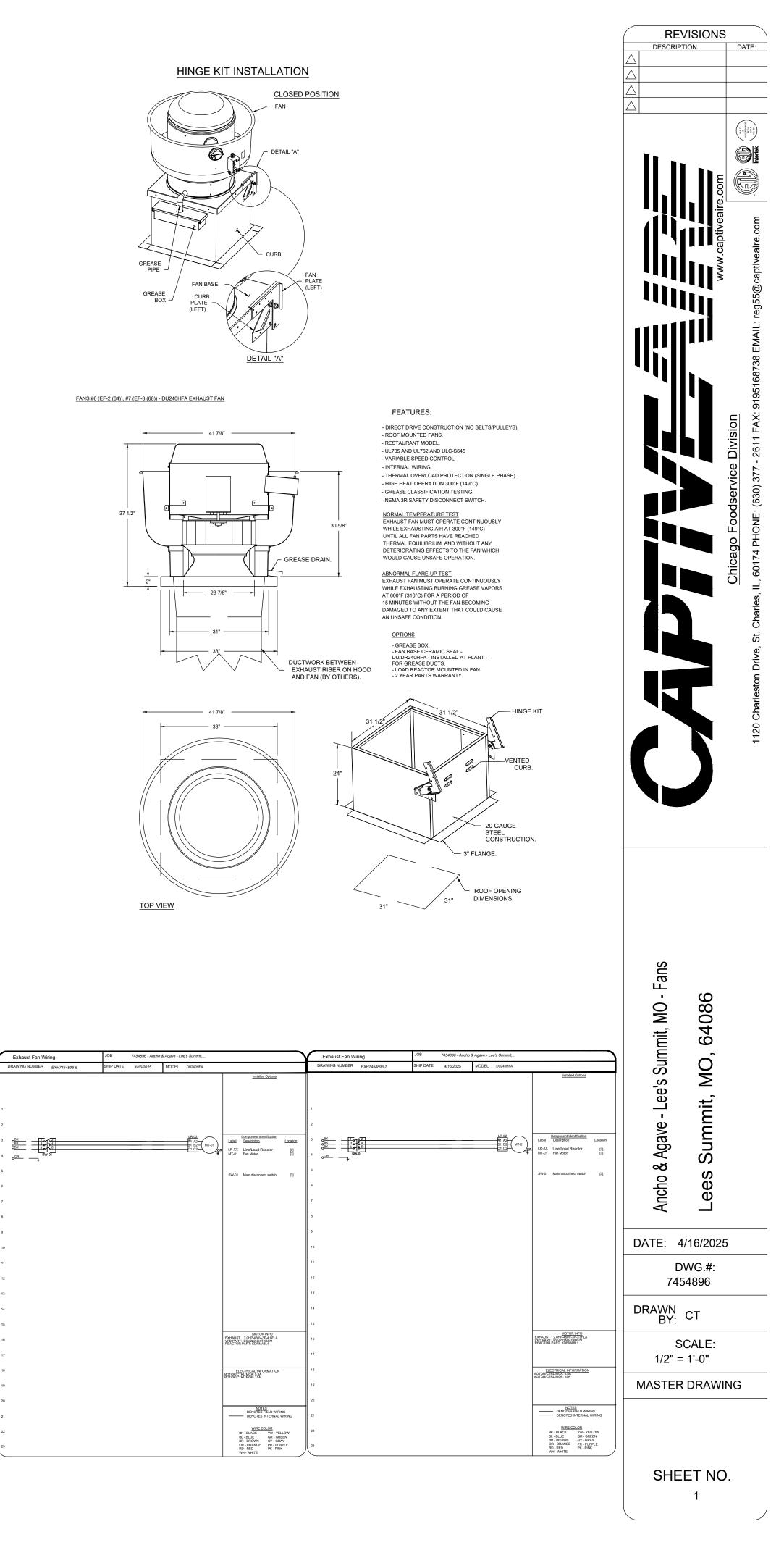
	R QUESTIONS, CALL THE Chicago Foodservice Division REGION 55 PHONE: (630) 377 - 2611				
EXHAUST FAN II FAN UNIT TAG	EMAIL: reg55@captiveaire.com NFORMATION - JOB#7454896 QTY FAN UNIT MODEL # MANUFACTURER CFM ESP RPM MOTOR ENCL	HP BHP PHASE VOL	FLA DISCHARGE WEIGHT (LBS) SONES		
NO 5 EF-1 (5) 6 EF-2 (6)	0) 1 DU50HFA CAPTIVEAIRE 1125 0.250 1094 TEAO-ECM	0.500 0.1300 1 115 3.000 1.2550 3 460	6.3 428 FPM 79 8.1		
7 EF-3 (6) 8 EF-4 (9) 9 EF-5 (BATHF)	5) 1 DU85HFA CAPTIVEAIRE 2000 0.650 1303 ODP	2.000 0.9540 3 460 0.750 0.3860 3 460 0.250 0.0940 1 115	1.3 633 FPM 97 12		
10 EF-6 (BATHF DOAS/RTU FAN S	ROOM) 1 DR12HFA CAPTIVEAIRE 140 0.500 1176 TEAO-ECM SCHEDULE - JOB#7454896 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	0.250 0.0700 1 115			
FAN UNIT TAG QT NO 1 KRTU-1 1	FAN INFORMATION TY DOAS/RTU MODEL # MANUFACTURER BLOWER RETURN AIR CFM MAX OUTSIDE AIR CFM TOTAL CFM WEIGHT (LBS) ESI 1 CAS-HVAC4-1.700-30-40T-2 CAPTIVEAIRE 30P-4 0 6125 6125 5503 0.75		A OUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY IEER ISMRE DISCHARGE DB WB DB WB DB WB DP TOTAL SENS. IEER ISMRE DB WB		A2L MINIMUM ROOM VOLUME ROOM AREA (FT2) AIRFLOW (CFM) HEIGHT (FT) NOTES 672 1163 7.2 1,2,3,4,5,6,7,8,9,10,11,13,14,15,16
2 KRTU-2 1 3 DRTU-1 1	CAS-HVAC4-1.700-30-40T-2 CAPTIVEAIRE 30P-4 0 6125 6125 5503 0.75	50 7.50 3 460 92.	A 100A 99.0°F 75.0°F 99.0°F 75.0°F 47.9°F 47.9°F 48.0°F 485.0 MBH 313.3 MBH 17.1 5.9 70.0°F 60.1°F	F 148 MBH 260 MBH 160.8 LBS/HR NATURAL 630579 510769 70°F 7 IN. W.C 14 IN. W.C.	672 1163 7.2 1,2,3,4,5,6,7,8,9,10,11,13,14,15,16
4 DRTU-2 1 <u>NOTES:</u>		50 3.00 3 460 38. 50 3.00 3 460 38.			
2. DIRECT DRIVE I 3. INTEGRATED M	OLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE IONITORING VIA CELLULAR CONNECTION BY MANUFACTURER IN PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE NDENSING FANS				
7. SUCTION LINE A 8. FACTORY COM 9. AVERAGING IN 10. 2" EXTERIOR D	MISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STELL HEAT EXCHANGER TAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT) JUAL-WALL CONSTRUCTION WI: R-13 INSULATION-MINIMUM 20GA EXTERIOR WI: 14GA BASE				
12. 81% EFFICIEN 13. SUPPLY CFM M 14. FULLY MODUL 15. DOWN DISCHA	T FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 12:1 T FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 14:1 MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE ATING HOT GAS REHEAT ARGEDOWN RETURN	TURNDOWN WITH NG AND 12:1	URNDOWN WITH LP		
17. 15 DEGREE LC	MM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTO W AMBIENT OPERATION	FAN]	
UNIT TAG NO	1 INLET PRESSURE GAUGE, 0-35" 1 MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES	UNIT TAG NO	1 DISCHARGE FIRESTAT SET TO 240°F 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED	FAN #5 DU50HFA - EXHAUST FAN (EF-1 (50))	
	1 COOLING OVERRIDE 3 SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV 1 PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE 1 RTU BLOWER DOOR SWITCH	_	1 RTU2 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 HIGH TURNDOWN OPTION FOR DOAS UNITS		- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS. - RESTAURANT MODEL. - UL705 AND UL762 AND ULC-S645
	1 RTU4 DOWN DISCHARGE 1 2" MERV 13 FILTERS FOR RTU4 (QTY. 12) 1 2" MERV 8 FILTERS FOR RTU4 (QTY. 12)		1 MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES 1 CLOGGED FILTER SWITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI		- VARIABLE SPEED CONTROL. - INTERNAL WIRING. - THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C).
	1 OVERHEAT STAT 1 TOTAL CFM MONITORING 1 OCCUPIED SCHEDULING 1 INTAKE FIRESTAT SET TO 135°F		1 RTU2 DOWN RETURN 1 2" METAL MESH FILTERS FOR RTU2 OUTDOOR INTAKE 1 VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 LOAD REACTOR MOUNTED IN FAN		- GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH. NORMAL TEMPERATURE TEST
	FREEZESTAT DISCHARGE FIRESTAT SET TO 240°F CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED		13 TON MODULATING COOLING OPTION, 460/480V. R454B REFRIGERANT, VARIABLE SPEED 1 COMPRESSOR, ECM CONDENSING FANS 1 LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT 1 R454B LEAK DETECTOR OPTION FOR RTUS		21 1/2" EXHAUST FAN MUST OPERATE CONTINUOUSLY 21 1/2" WHILE EXHAUSTING AIR AT 300"F (149"C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY
1 KRTU-1	1 RTU4 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS		1 13 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEARE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)	GREASE DI	ABNORMAL FLARE-UP TEST
	1 CLOGGED FILTER SWITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU4 DOWN RETURN		EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET INLET PRESSURE GAUGE, 0-35* COOLING OVERRIDE COOLING OVERRIDE		EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING
	1 2" METAL MESH FILTERS FOR RTU4 OUTDOOR INTAKE 1 VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE		SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV 1 PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE 1 RTU BLOWER DOOR SWITCH		DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION. <u>OPTIONS</u>
	1 VAV PACKAGE WI 0-10VDC INPUT CONTROL (571 VFD INCLUDED) 1 LOAD REACTOR MOUNTED IN FAN 40 TON MODULATING COOLING OPTION, 460/480V, 4CFS, R454B REFRIGERANT, 20 TON 1 VARIABLE SPEED COMPRESSOR/20 TON VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS		1 RTU2 DOWN DISCHARGE 1 2* MERV 13 FILTERS FOR RTU2 (QTY. 4) 1 2* MERV 8 FILTERS FOR RTU2 (QTY. 4)		- GREASE BOX. - FAN BASE CERAMIC SEAL - DU/DR50HFA - INSTALLED AT PLANT - FOR GREASE DUCTS. T RISER ON HOOD - ECM WIRING PACKAGE - EXHAUST -
	1 LOW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT - 2 CIRCUIT 1 R454B LEAK DETECTOR OPTION FOR RTUS 1 40 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE		OVERHEAT STAT TOTAL CFM MONITORING VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE		Inservice of the control of the con
	1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET	_	1 OCCUPIED SCHEDULING 1 INTAKE FIRESTAT SET TO 135°F	28 7/8" =	19 1/2" HINGE KIT
	INLET PRESSURE GAUGE, 0-35" MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES COOLING OVERRIDE SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV		1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 240°F 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED		
	1 PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE 1 RTU BLOWER DOOR SWITCH 1 RTU4 DOWN DISCHARGE		1 RTU2 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 HIGH TURNDOWN OPTION FOR DOAS UNITS		24" VENTED CURB.
	1 2" MERV 13 FILTERS FOR RTU4 (QTY. 12) 1 2" MERV 8 FILTERS FOR RTU4 (QTY. 12) 1 OVERHEAT STAT 1 TOTAL CFM MONITORING		MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES CLOGGED FILTER SWITCH - NOTIFICATION ON HMI RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI RTU2 DOWN RETURN		
	1 OCCUPIED SCHEDULING 1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT		1 2* METAL MESH FILTERS FOR RTU2 OUTDOOR INTAKE 1 VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 LOAD REACTOR MOUNTED IN FAN		20 GAUGE STEEL CONSTRUCTION.
	1 DISCHARGE FIRESTAT SET TO 240°F 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU4 CURB DUCT HANGER		1 13 TON MODULATING COOLING OPTION, 460/480V. R454B REFRIGERANT, VARIABLE SPEED 1 COMPRESSOR, ECM CONDENSING FANS 1 LOW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT 1 R454B LEAK DETECTOR OPTION FOR RTUS		3" FLANGE.
2 KRTU-2 -	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS CLOGGED FILTER SWITCH - NOTIFICATION ON HMI	_	1 13 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)	TOP VIEW	19" ROOF OPENING DIMENSIONS.
	1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU4 DOWN RETURN 1 2" METAL MESH FILTERS FOR RTU4 OUTDOOR INTAKE	5 EF-1 (50)	1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET 1 GREASE BOX 1 FAN BASE CERAMIC SEAL - DU/DR50HFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 FOR UNIVERSITY OF A DU/DR50HFA - INSTALLED AT PLANT - FOR GREASE DUCTS	-	19"
	1 VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE 1 VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 LOAD REACTOR MOUNTED IN FAN		1 ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCO), CCW ROTATION 1 2 YEAR PARTS WARRANTY 1 GREASE BOX		
	40 TON MODULATING COOLING OPTION, 460/480V. 4CFS. R454B REFRIGERANT, 20 TON VARIABLE SPEED COMPRESSOR/20 TON VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS 1 LOW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT - 2 CIRCUIT 1 R454B LEAK DETECTOR OPTION FOR RTUS	6 EF-2 (64)	1 FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 LOAD REACTOR MOUNTED IN FAN 1 2 YEAR PARTS WARRANTY		
	1 40 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)	7 EF-3 (68)	GREASE BOX FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS	-	
	1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET 1 INLET PRESSURE GAUGE, 0-35" 1 COOLING OVERRIDE	_	1 LOAD REACTOR MOUNTED IN FAN 1 2 YEAR PARTS WARRANTY 1 GREASE BOX	Exhaust Fan Wiring JOB DRAWING NUMBER FXH7254896-5 SHIP DATE	7454896 - Ancho & Agave - Lee's Summit
	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV 1 PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE 1 RTU BLOWER DOOR SWITCH 1 RTU2 DOWN DISCHARGE	8 EF-4 (95)	1 FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 LOAD REACTOR MOUNTED IN FAN 1 LINE/LOAD REACTOR MOUNTING BRACKET FOR DU 50 & 85		Installed Options
3 DRTU-1	1 2" MERV 13 FILTERS FOR RTU2 (QTY. 4) 1 2" MERV 8 FILTERS FOR RTU2 (QTY. 4) 1 OVERHEAT STAT	9 EF-5 (BATHROOM)	EINELED ALS TO TO HOST MOST MUSEL TO TO BOOD OUT OF 2 YEAR PARTS WARRANTY FAN BASE CERAMIC SEAL - DU/DR12HFA - INSTALLED AT PLANT - FOR GREASE DUCTS ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCO), CCW ROTATION		B ^E optional D40VDC RB [®] SPECE REFERENCE INPUT S40W MOTOR CONTROL SIGNAL OUTPUT
	1 TOTAL CFM MONITORING 1 VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE 1 OCCUPIED SCHEDULING	 10 EF-6 (BATHROOM)	1 2 YEAR PARTS WARRANTY 1 FAN BASE CERAMIC SEAL - DU/DR12HFA - INSTALLED AT PLANT - FOR GREASE DUCTS ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCO), CCW ROTATION	BK WH 3 <u>BK</u> 3 <u>BK</u> 3 <u>C</u> 4 <u>CR</u> 4 <u>CR</u> 4 <u>CR</u> 5 <u>CR</u>	Image: Component Identification Label Component Identification
FAN ACCESSOR	1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT		1 2 YEAR PARTS WARRANTY		SE ROTATION JUMPER WISE DISCONNECTED. TO REVERSE ROTATION AND TO REVERSE ROTATION NO. CONNECT JUMPER FOR SW-01 Main disconnect switch [3] CKEC MOTOR ONLY. TR-01 24/AC 20/A Transformer [2]
FAN UNIT TAO NO	EXHAUST SUPPLY		CONTROLS DESIGN SERVICE BIANNUAL ANALYSIS OF EQUIPMENT PERFORMANCE REQUIRED BY THE MANUFACTURER TO OPTIMIZE SYSTEM POST INSTALL. DETAILED PERFORMANCE REPORT TO BE PRESENTED TO OWNERSHIP ON A BIANNUAL BASIS FOR THE FIRST YEAR.	7	
5 EF-1 (6 EF-2 (7 EF-3 (YES Image: Constraint of the second sec		CONNECTED COMMISSIONING SERVICES(CCX) IF ORDERED, THE CCX ENGINEER WILL PERFORM REMOTE ENGINEERING ANALYSIS OF	9 10	
8 EF-4 (9 EF-5 (BATH 10 EF-6 (BATH	IROOM) IROOM)		CAPTIVEAIRE EQUIPMENT OVER CASLINK, A CLOUD - BASED REMOTE MONITORING SYSTEM.TYPICALLY, THE ANALYSIS WILL BE PERFORMED AFTER SERVICE DESIGN VERIFICATION(SDV) HAS BEEN COMPLETED ON-SITE. ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE ANALYSIS WILL BE DOCUMENTED AND BROUGHT TO THE ATTENTION OF THE SALES OFFICE. IF THE CCX ENGINEER DISCOVERS A DISCREPANCY THAT CAN	11 12	
CURB ASSEMBL	TAG WEIGHT ITEM SIZE KRTU-1 264 LBS CURB 80.000"W X 111.000"L X 20.000"H INSULATED 16 GAUGE.		BE RESOLVED REMOTELY, THE DISCREPANCY WILL BE RESOLVED AND THE SALES OFFICE WILL BE NOTIFIED.SHOULD A RETURN TRIP FROM CAS SERVICE BE REQUIRED TO RESOLVE FIELD RELATED DISCREPANCIES, THERE WILL BE ADDITIONAL TRIP CHARGES.SHOULD THE CCX ENGINEER DISCOVER A DISCREPANCY DURING THE ANALYSIS THAT IS THE FAULT OF THE MANUFACTURER AND THAT CANNOT BE RESOLVED REMOTELY, THE ISSUE WILL BE	13 14	
2 # 2 3 # 3 4 # 4 5 # 5	KRTU-2 264 LBS CURB 80.000"W X 111.000"L X 20.000"H INSULATED 16 GAUGE. DRTU-1 111 LBS CURB 49.500"W X 75.000"L X 20.000"H INSULATED. DRTU-2 111 LBS CURB 49.500"W X 75.000"L X 20.000"H INSULATED. EF-1 (50) 34 LBS CURB 19.500"W X 75.000"L X 24.000"H VENTED HINGED.		DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE AND CAS SERVICE REGION. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.	15 16	MOTOR INFO EXHAUST 0.5HP-115V-1P-0.5PLA
6 # 6 7 # 7 8 # 8	EF-2 (64) 43 LBS CURB 31.500"W X 31.500"L X 24.000"H VENTED HINGED. EF-3 (68) 43 LBS CURB 31.500"W X 31.500"L X 24.000"H VENTED HINGED. EF-4 (95) 41 LBS CURB 23.000"W X 23.000"L X 24.000"H VENTED HINGED. F-5 (BATHROOM) 26 LBS CURB 17.500"W X 17.500"L X 18.000"H HINGED.			17 18	
10 # 10 EF	-6 (BATHROOM) 26 LBS CURB 17.500"W X 17.500"L X 18.000"H HINGED. HMI SCHEDULE INFLATION AND AND AND AND AND AND AND AND AND AN			19 20	
	HMI # HMI ECCATION TEMP AVERAGING ADDRESS HMI #1 - UNIT IN UNIT NOT AVERAGED 55 HMI #2 - SPACE AVERAGED 56			21 22	NOTES PHOTES FILD WIRING DENOTES INTERNAL WIRING WIRE COLOR BK. BLACK WY. VELLOW BL. BLUE GR. GREEN
FAN #3	HMI #1 - UNIT IN UNIT NOT AVERAGED 55 HMI #2 - SPACE AVERAGED 56 HMI #1 - UNIT IN UNIT NOT AVERAGED 55 HMI #2 - SPACE AVERAGED 55			23	BL BLUE GR-GREEN BR-BROWN GY-GRAY OR-ORANGE PR-PURPLE RD-RED PK-PINK WH-WHITE
FAN #4 FAN #4	HMI #1 - UNITIN UNITNOT AVERAGED55HMI #2 - SPACEAVERAGED56				

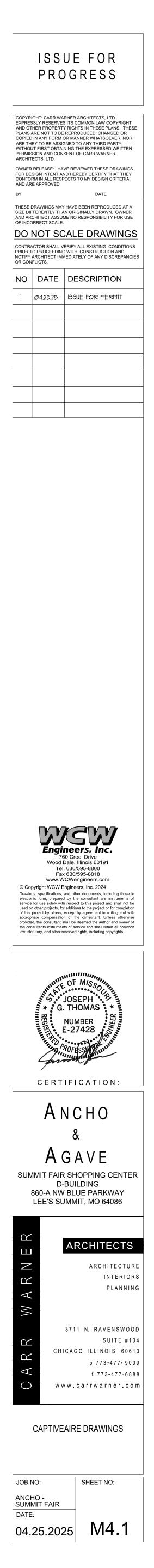






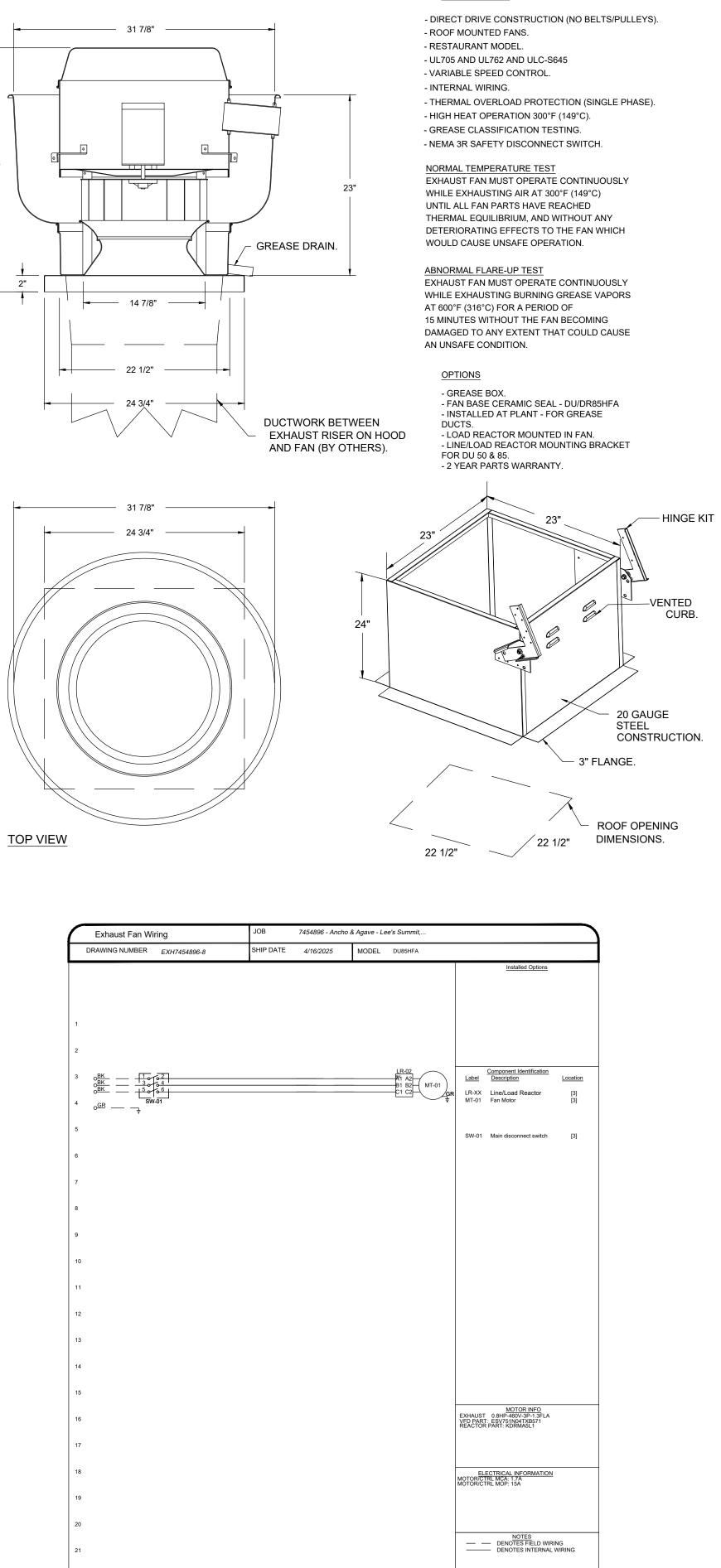






FAN #8 DU85HFA - EXHAUST FAN (EF-4 (95))

30 1/2"



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FEATURES:

 WIRE COLOR

 BK - BLACK
 YW - YELLOW

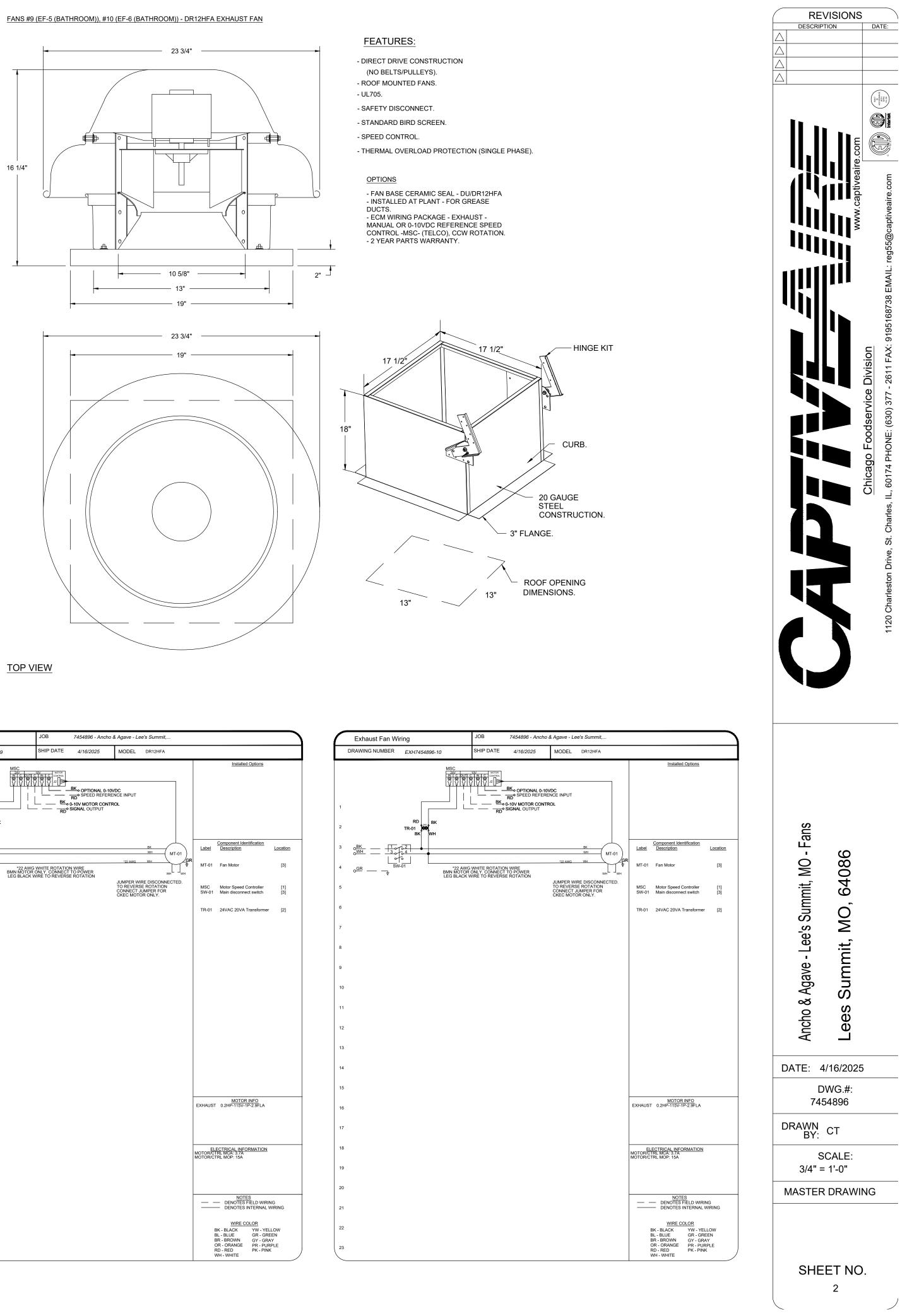
 BL - BLUE
 GR - GREEN

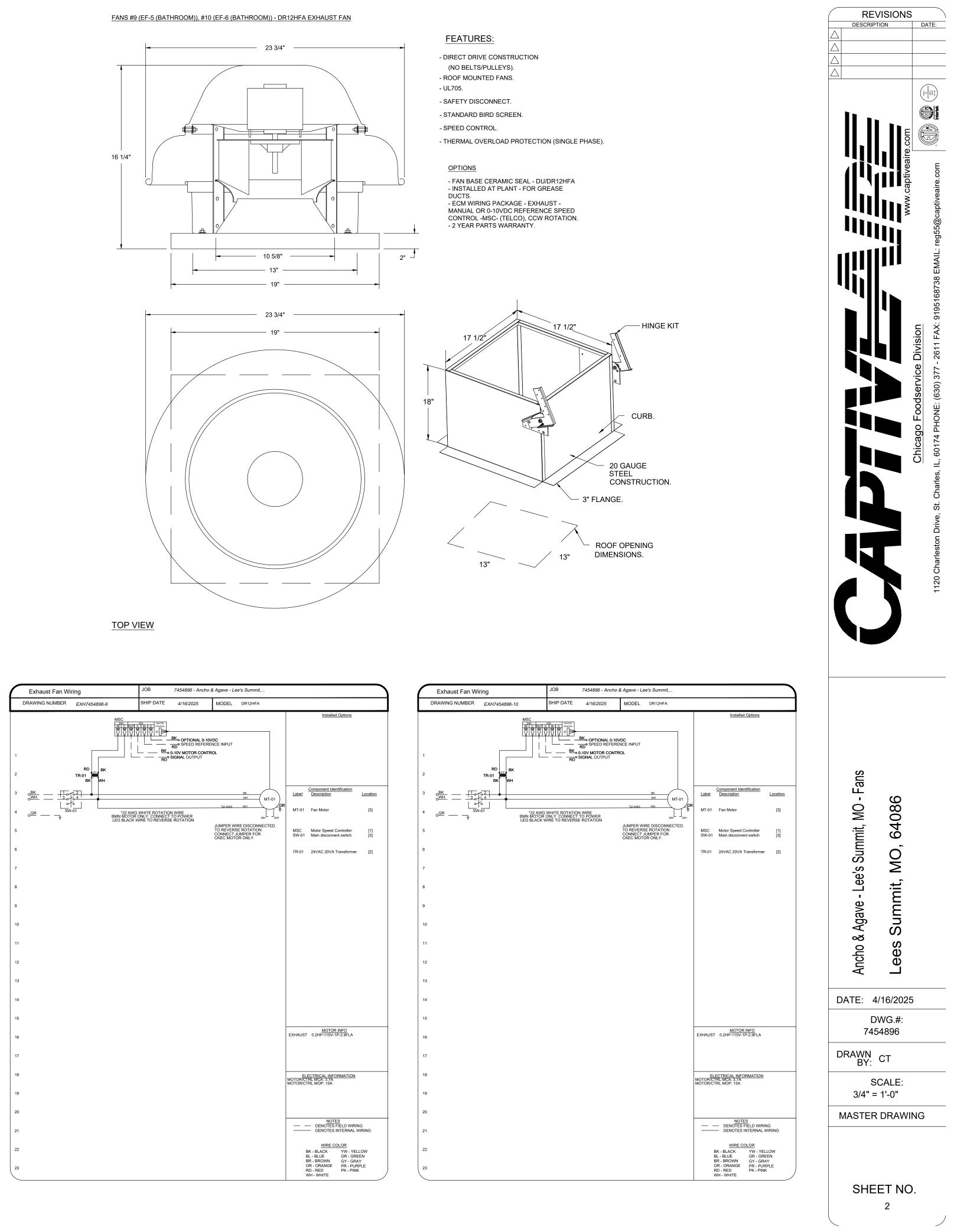
 BR - BROWN
 GY - GRAY

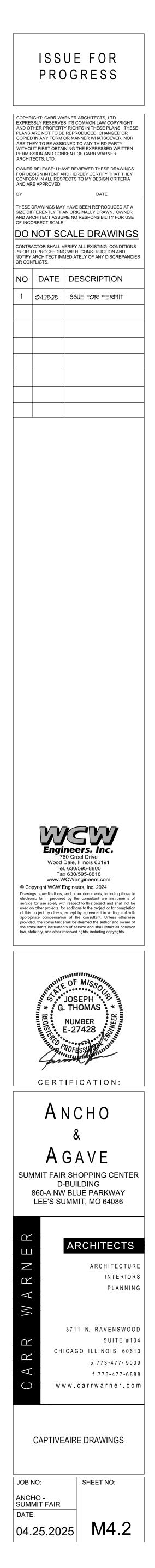
 OR - ORANGE
 PR - PURPLE

 RD - RED
 PK - PINK

 WH - WHITE
 PK





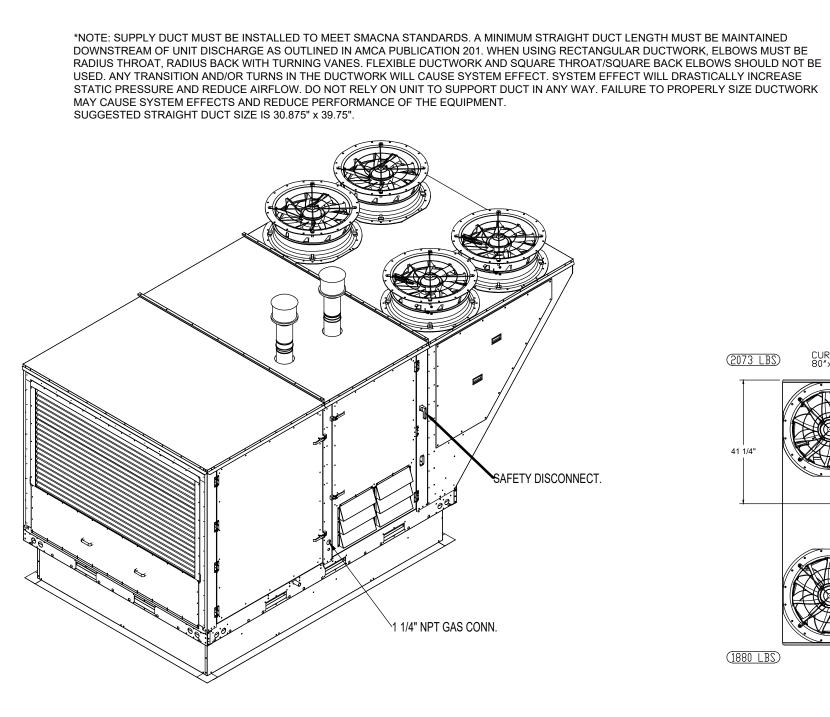


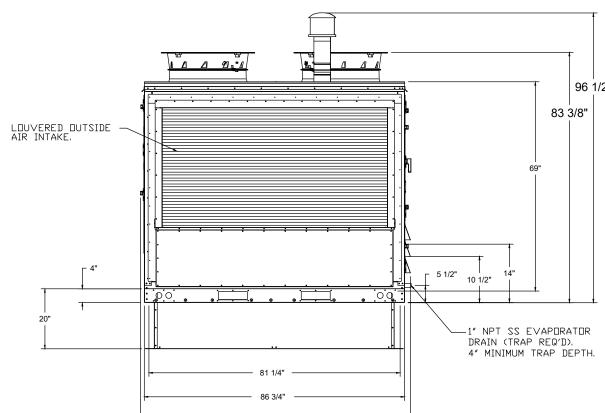
FAN #1 CAS-HVAC4-I.700-30-40T-2 - HEATER (KRTU-1)

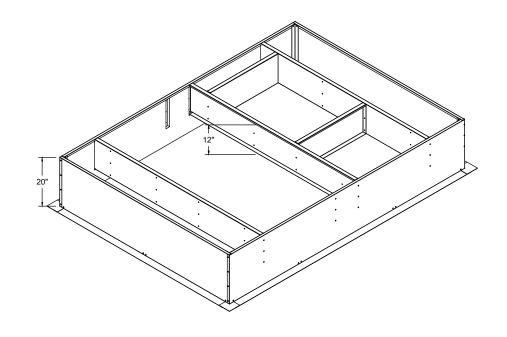
NOTES: 1. <u>DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.</u> DENOTES CORNER WEIGHT.

3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS. 4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY. 5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

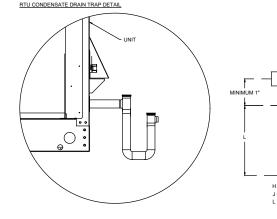
*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.





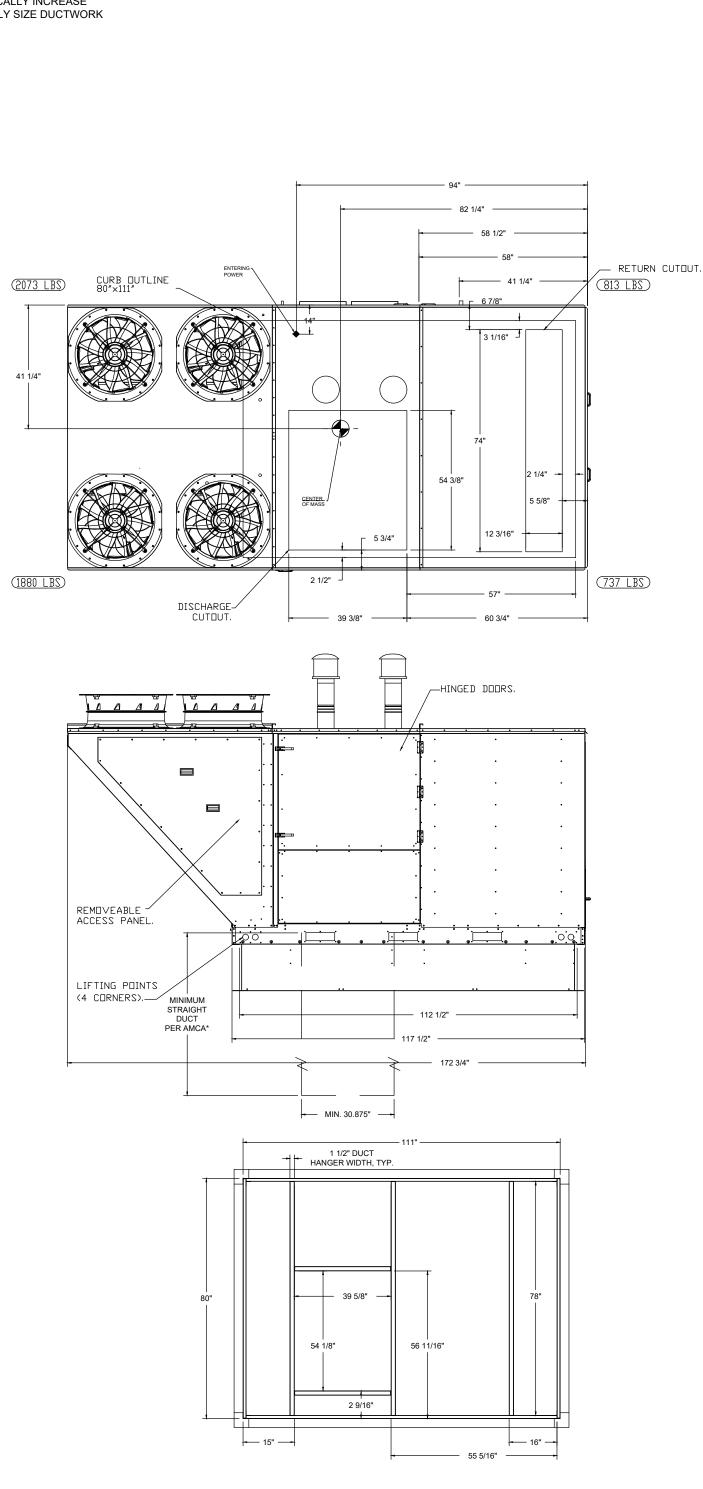


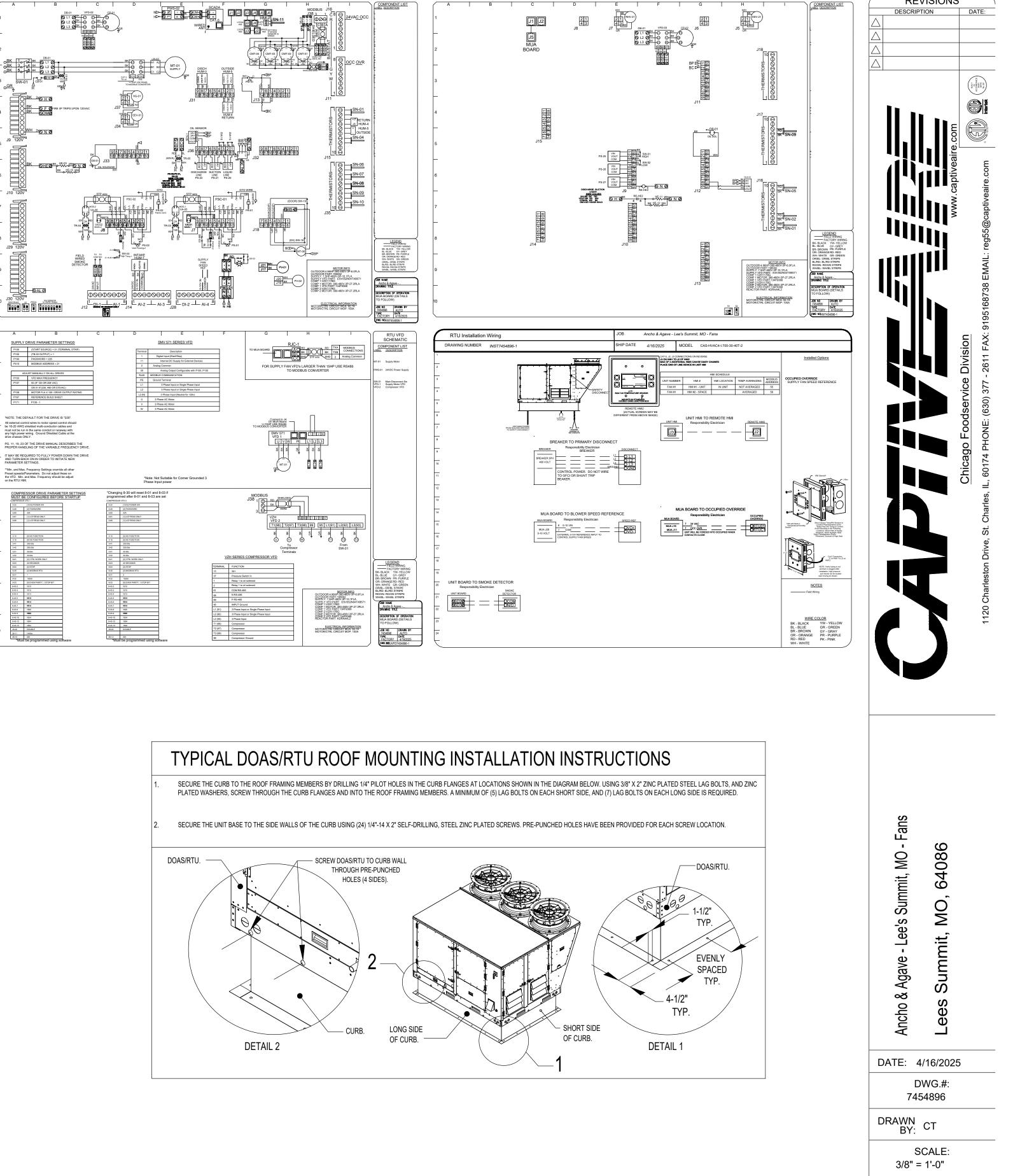
- 89 3/4"

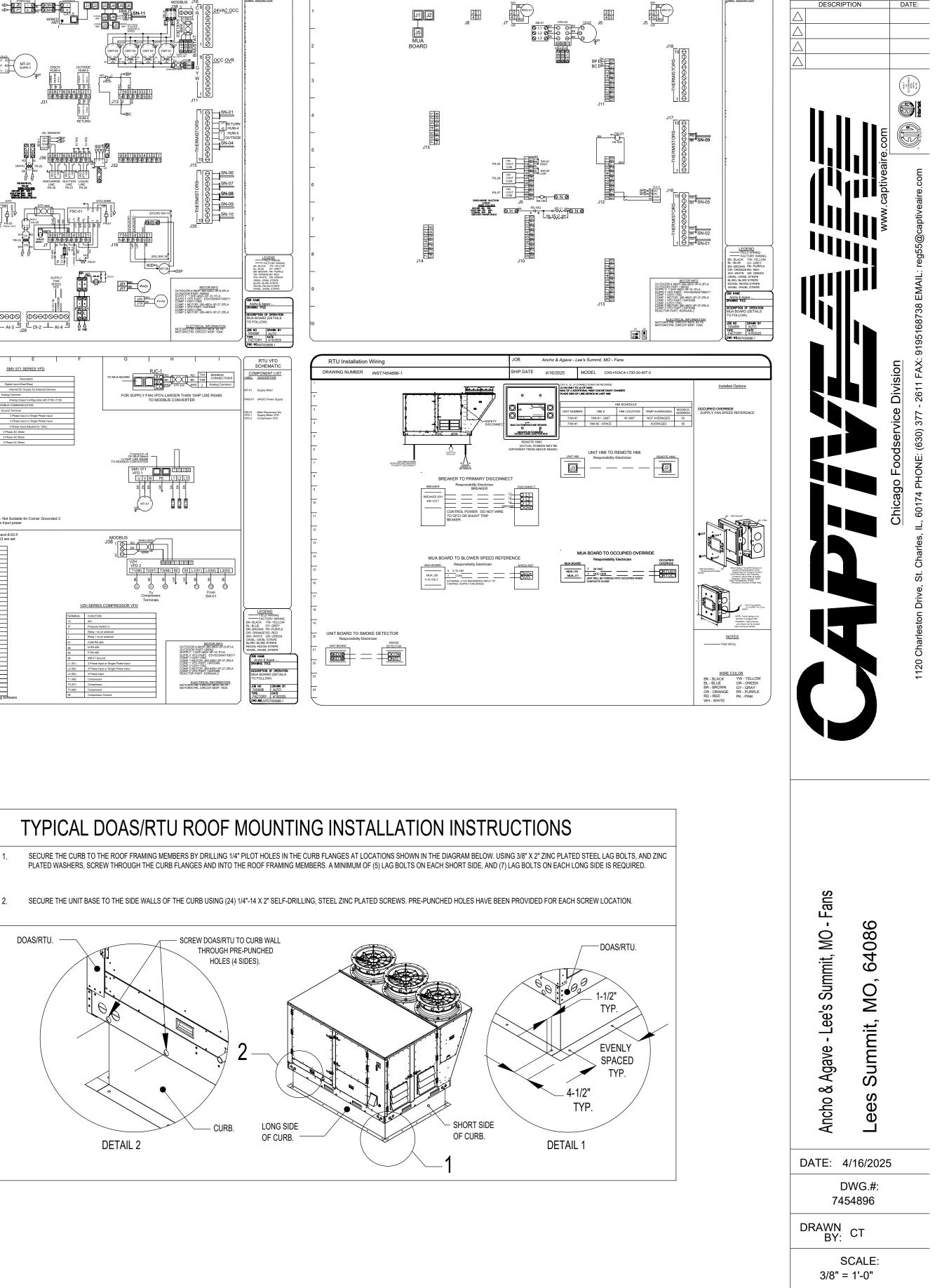


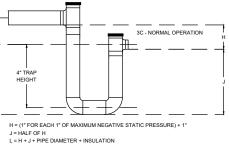
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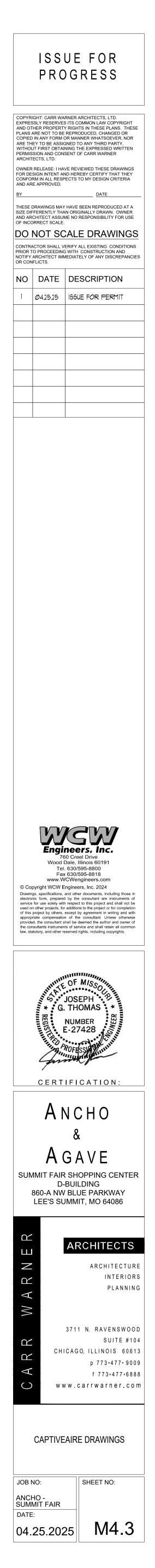




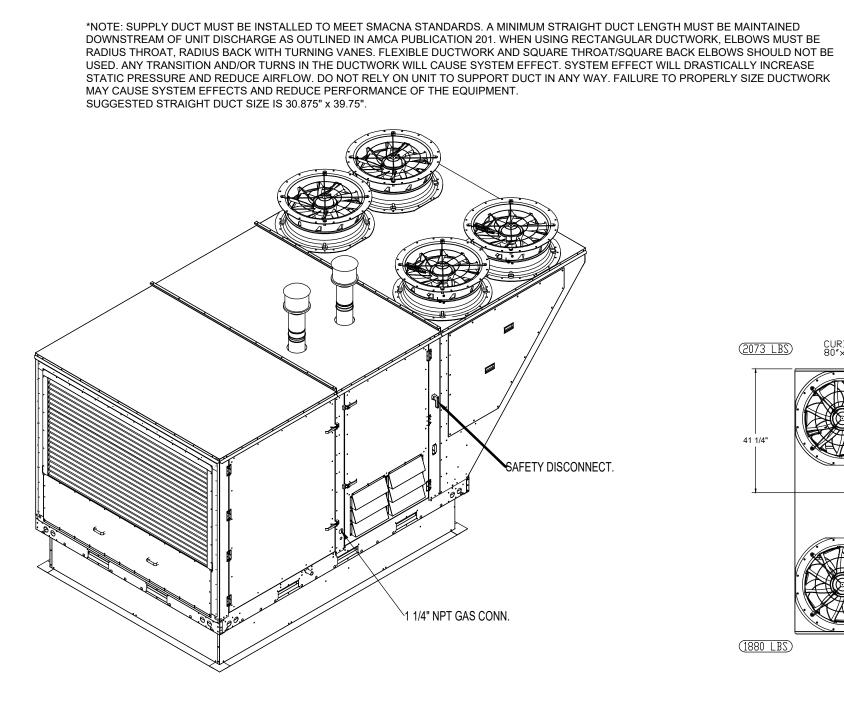
SHEET NO.

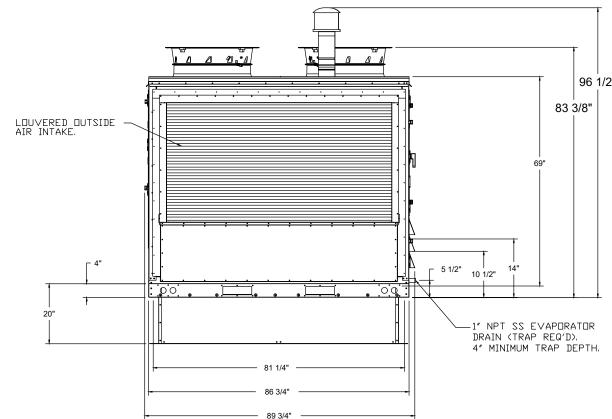
MASTER DRAWING

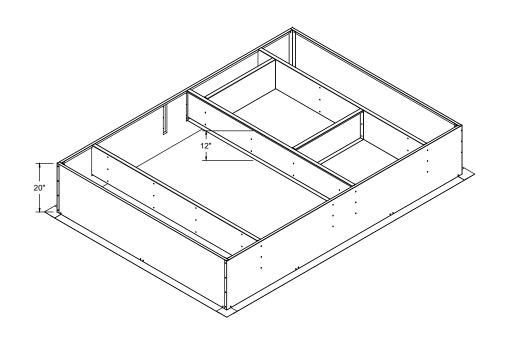
REVISIONS

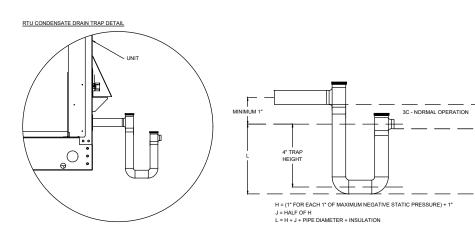


- FAN #2 CAS-HVAC4-I.700-30-40T-2 HEATER (KRTU-2)
- NOTES: 1. <u>DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.</u> DENOTES CORNER WEIGHT.
- 3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS. 4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY. 5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.
- *NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.





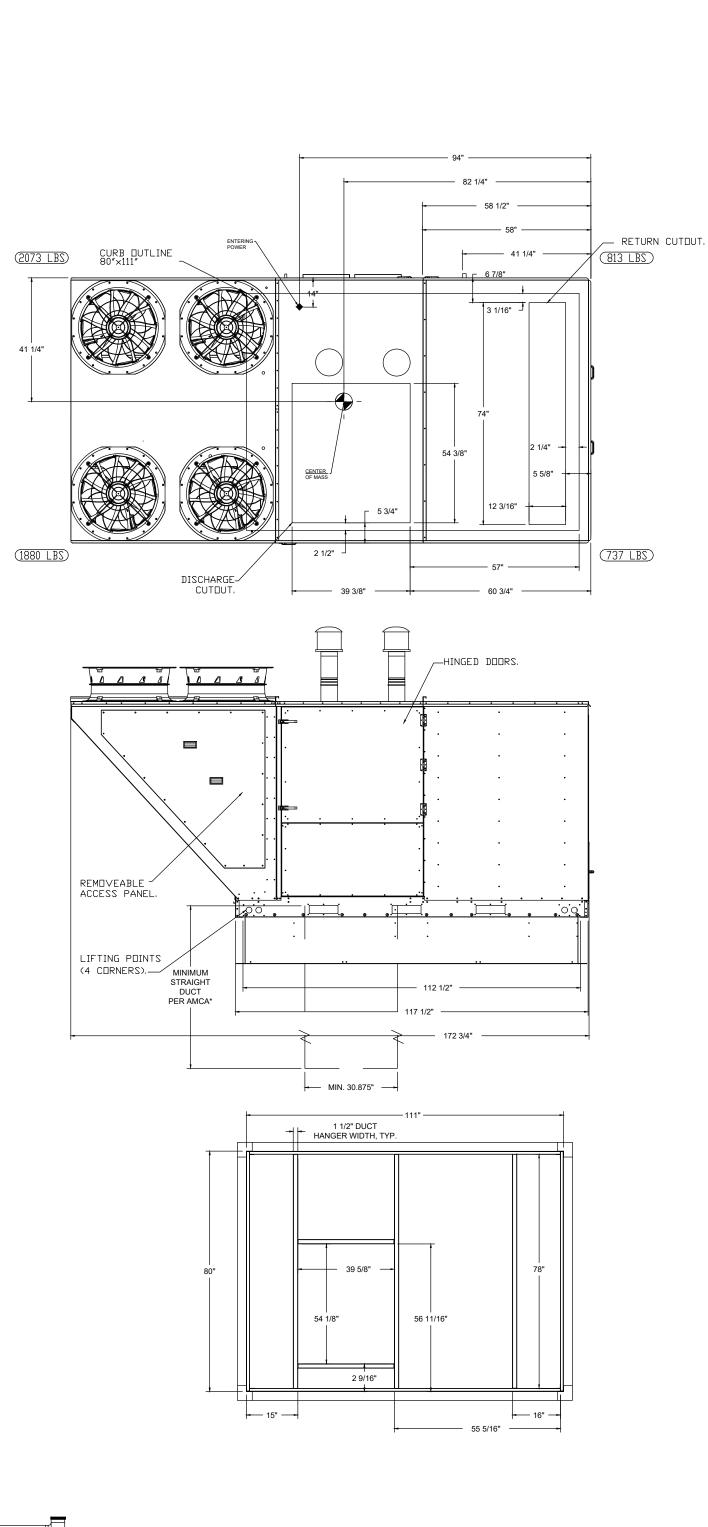


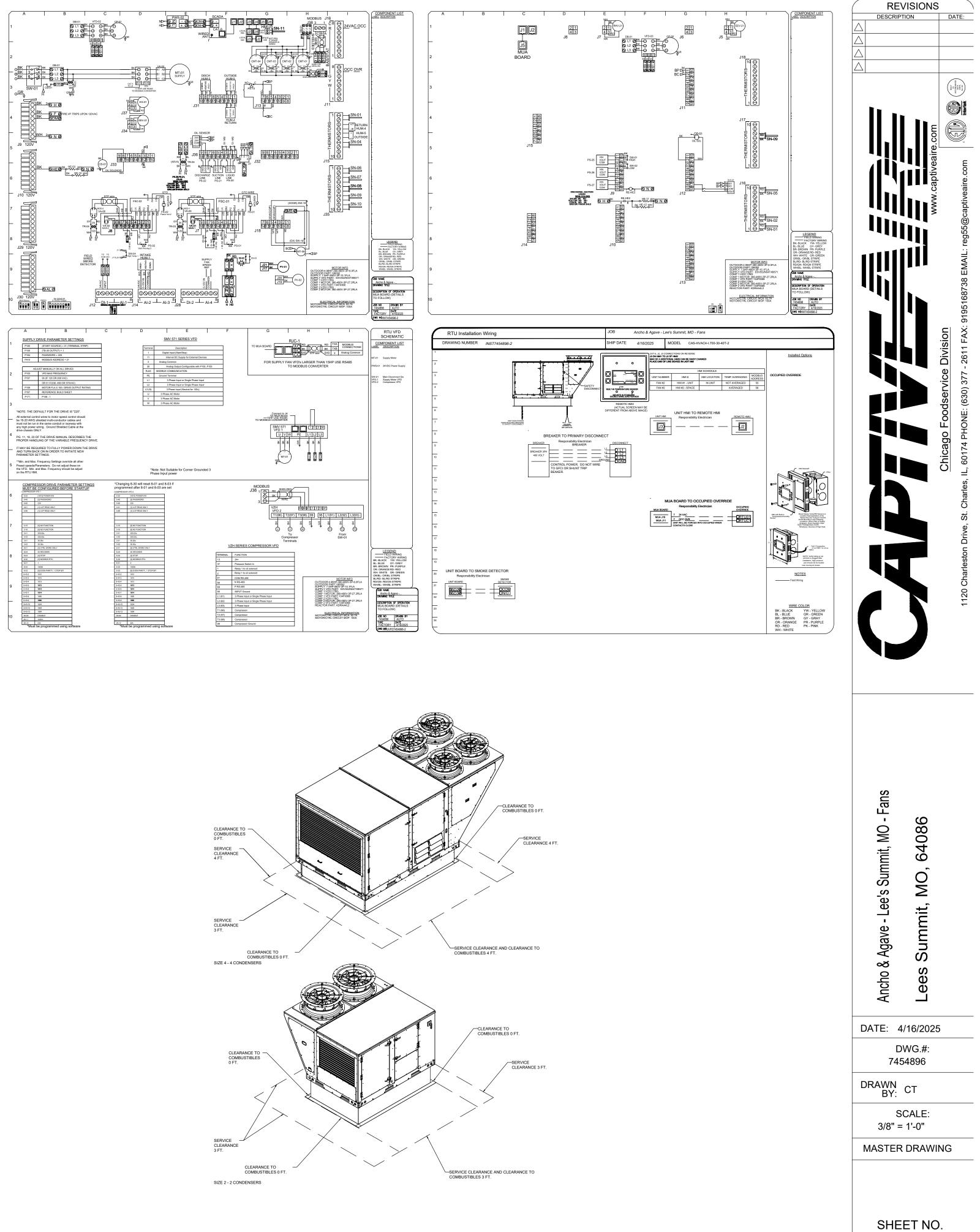


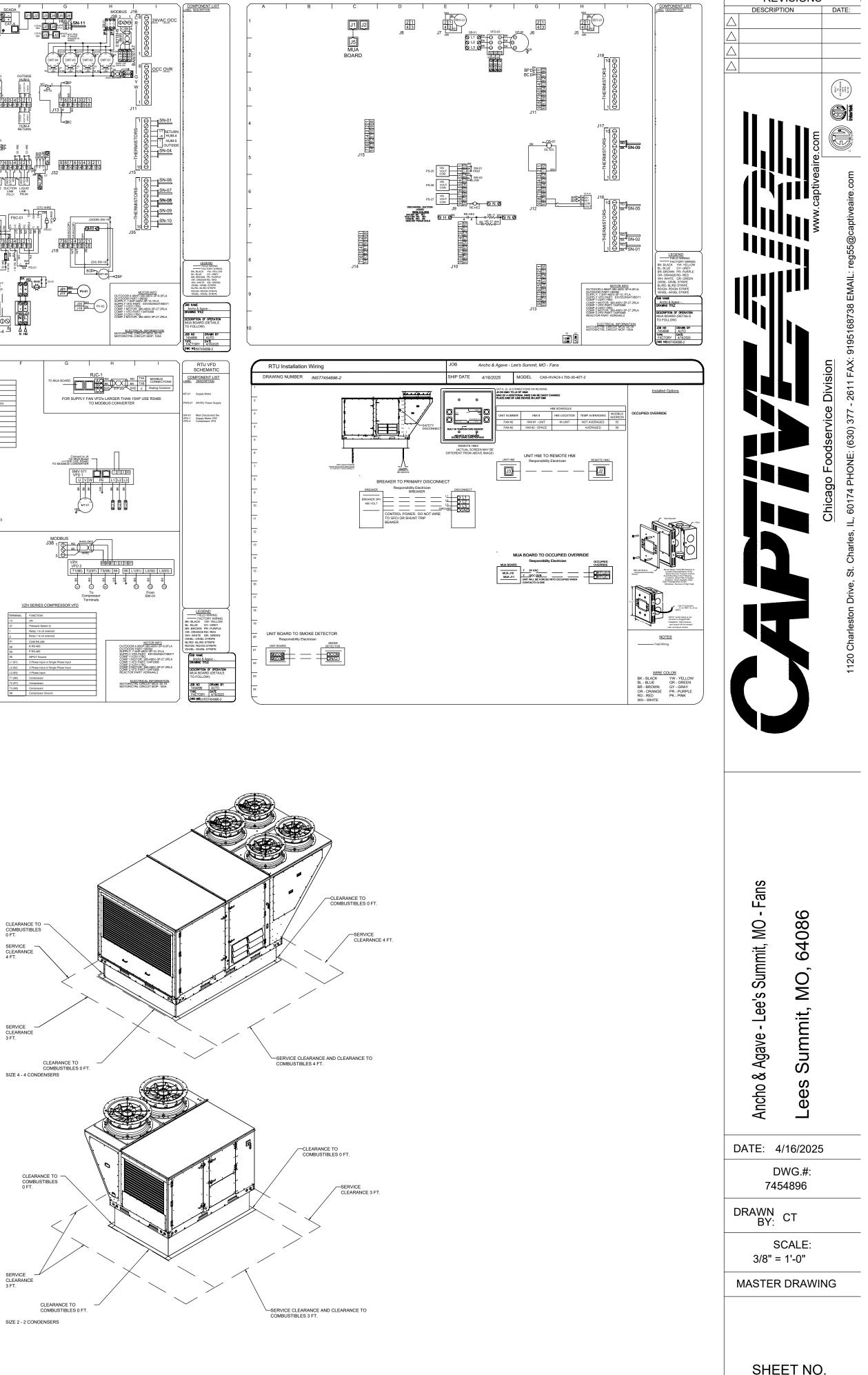
- NORMAL OPERATION

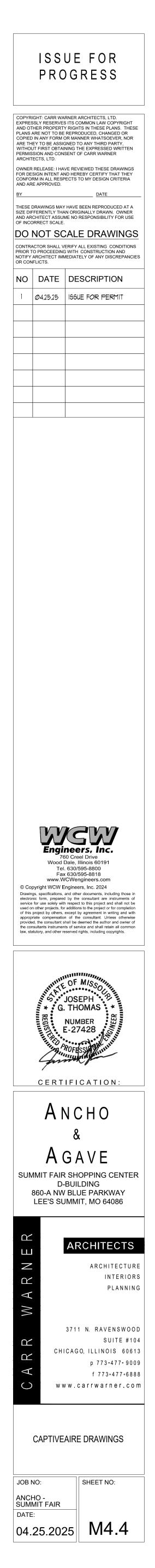
(1880 LBS)











4

FAN #3 (DRTU-1), #4 (DRTU-2) - CAS-HVAC2-I.300-18-13T HEATER

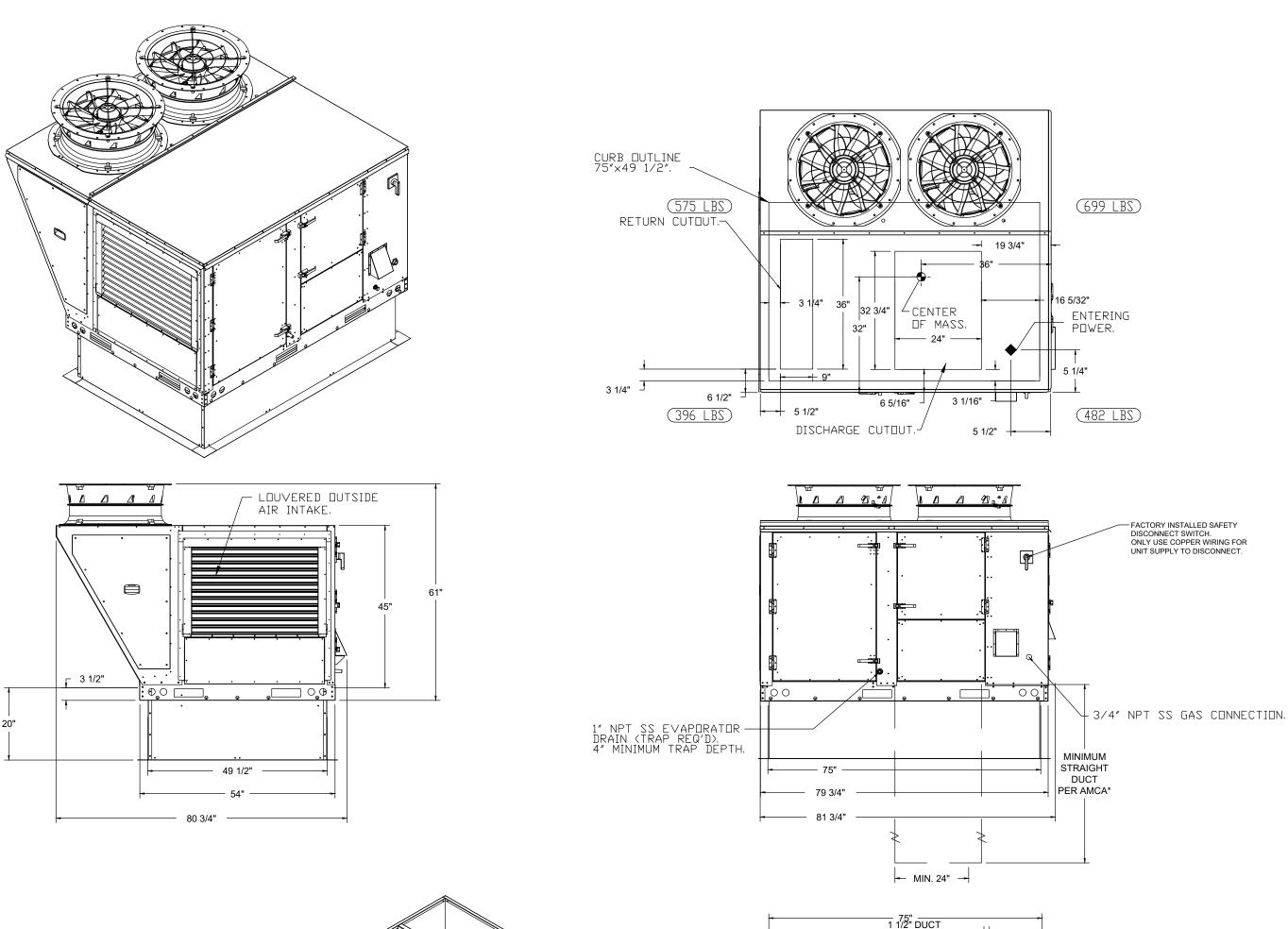
NOTES: 1. <u>DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.</u>

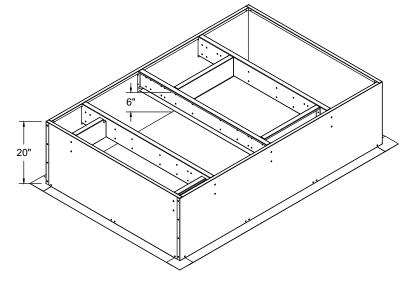
2. <u>DENOTES CORNER WEIGHT</u>. 3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

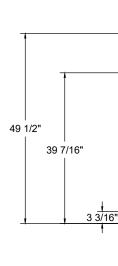
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY. 5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 24" x 30.25".







36 1/4"

36 3/16"

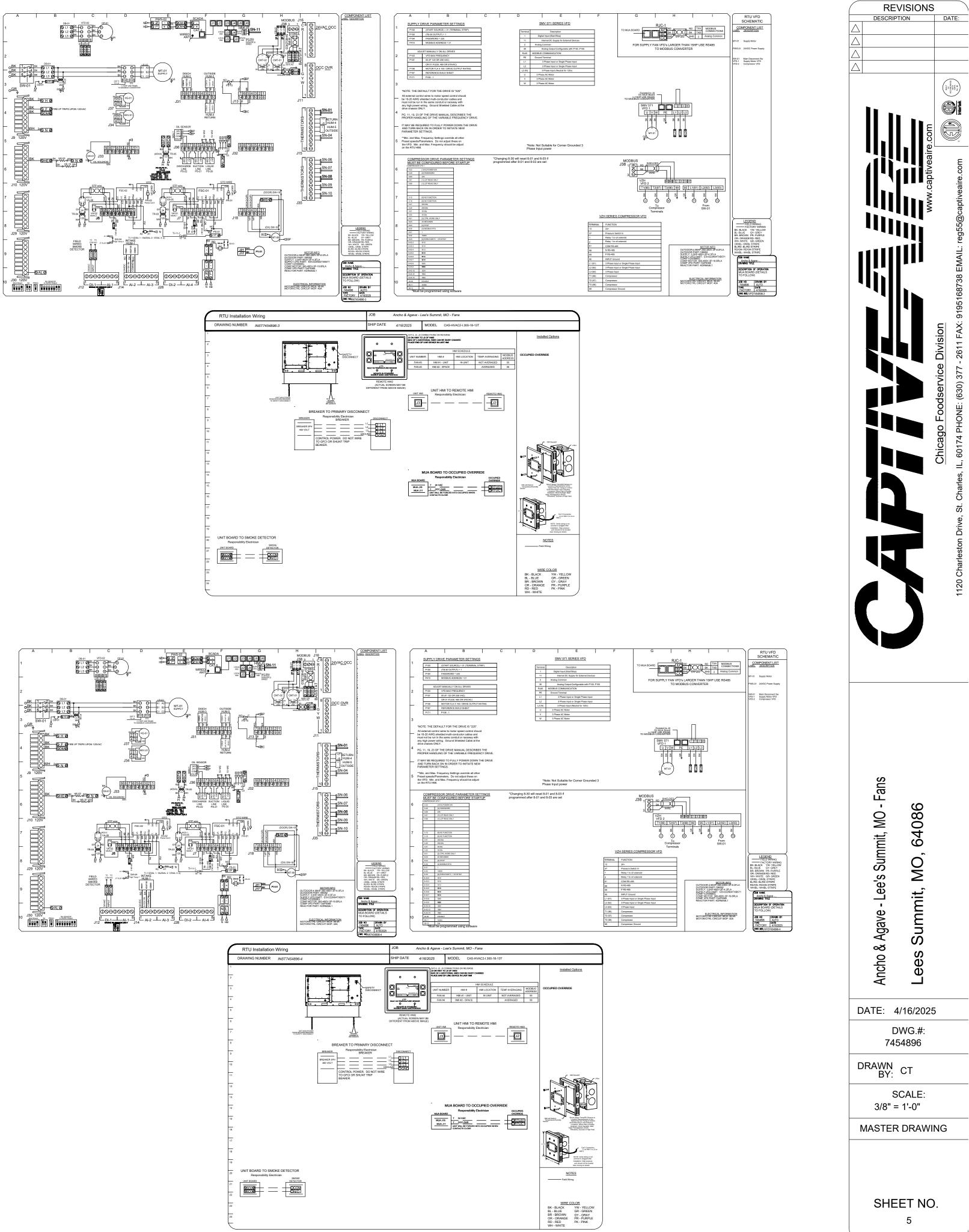
HANGER WIDTH, TYP.

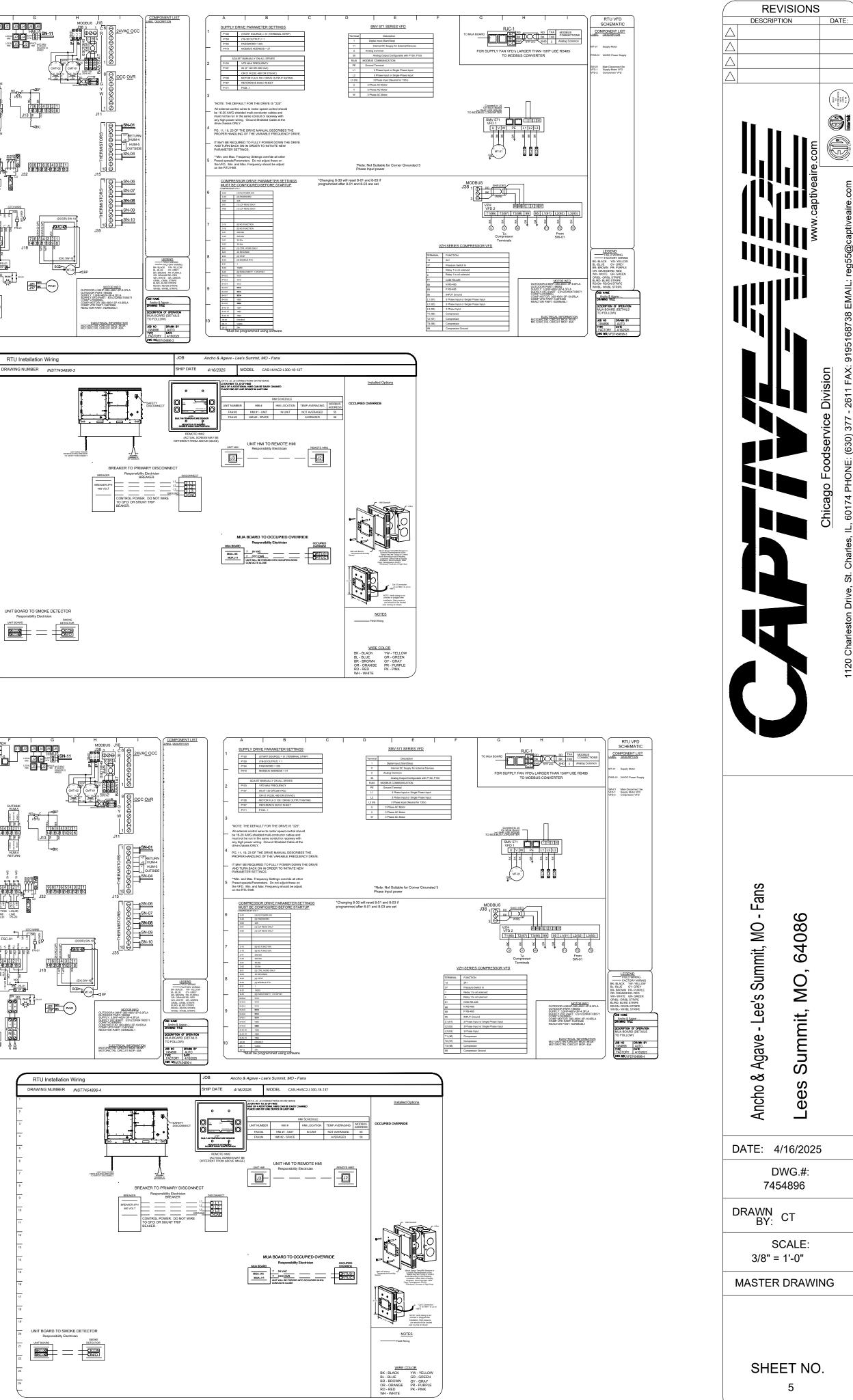
24 3/16"

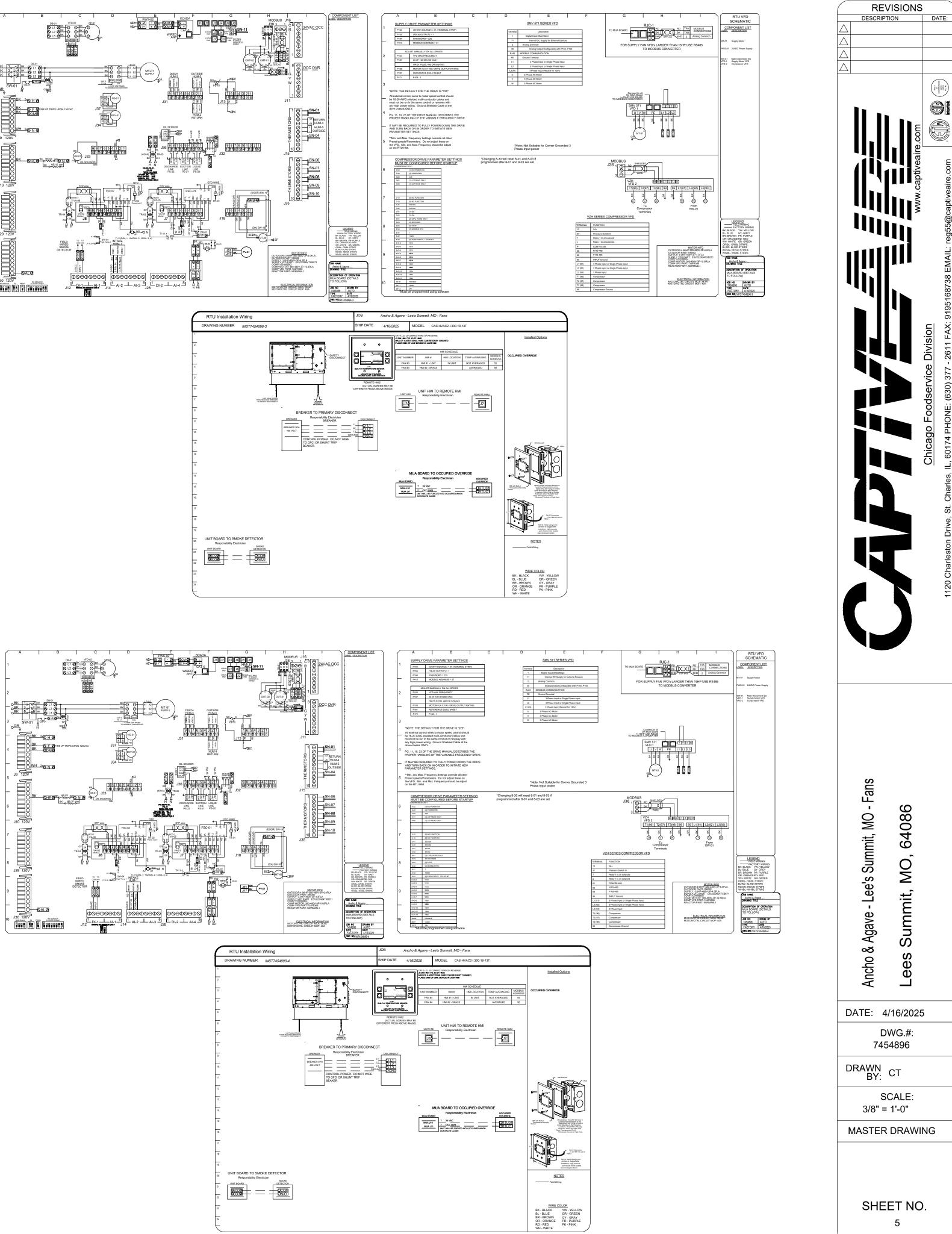
-- 16 1/16"

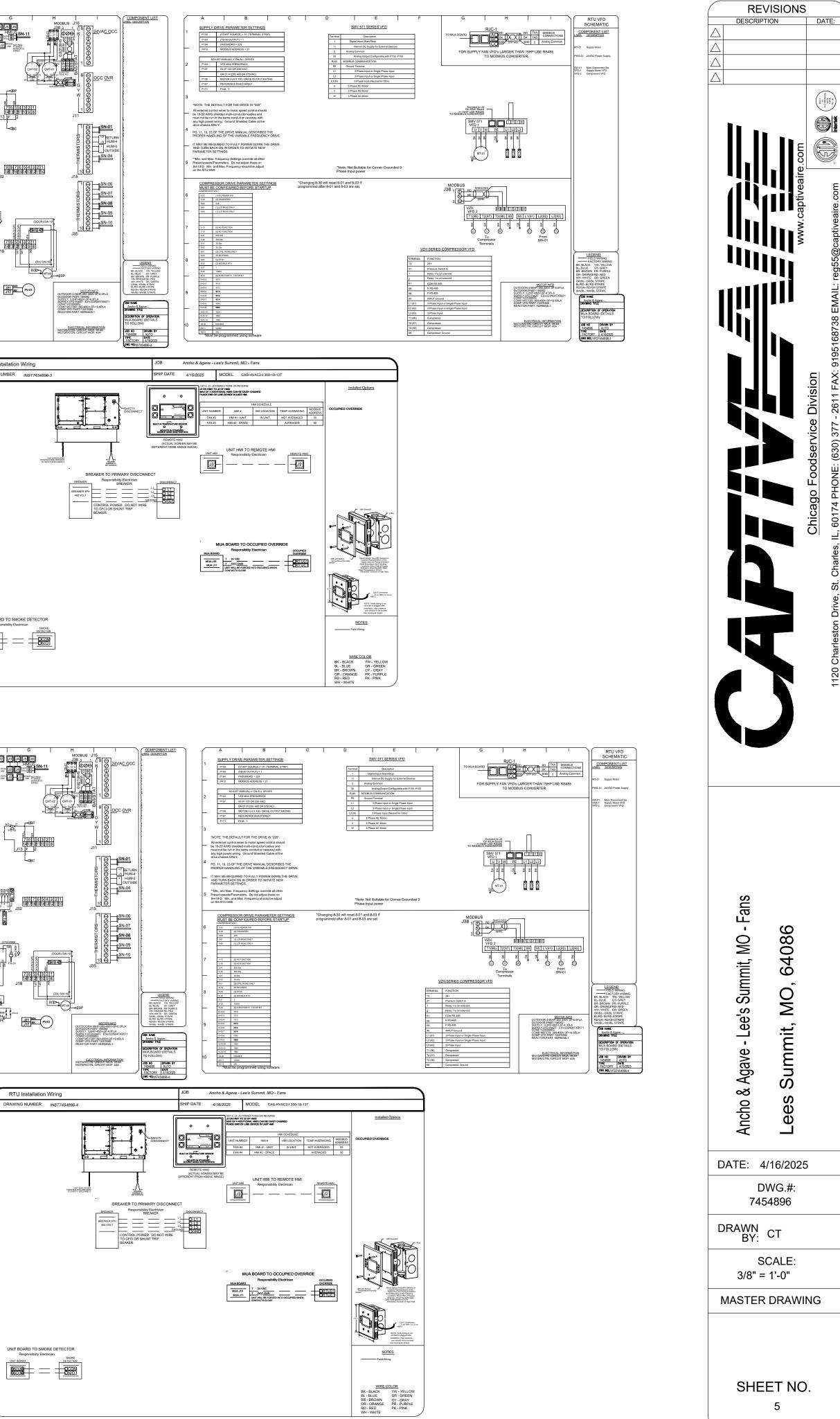
SYSTEM DESIGN VERIFICATION (SDV) IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE. ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES. DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE

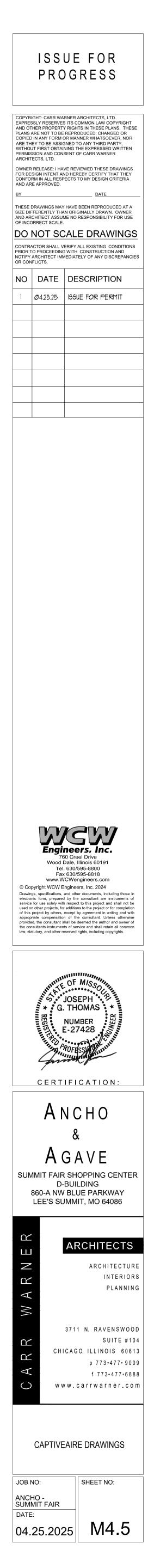
WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.



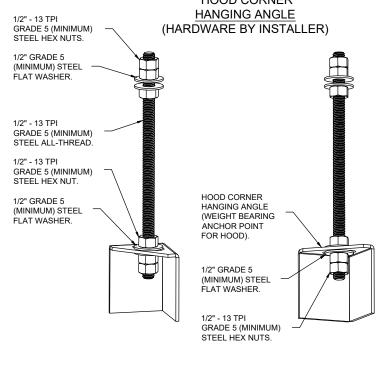


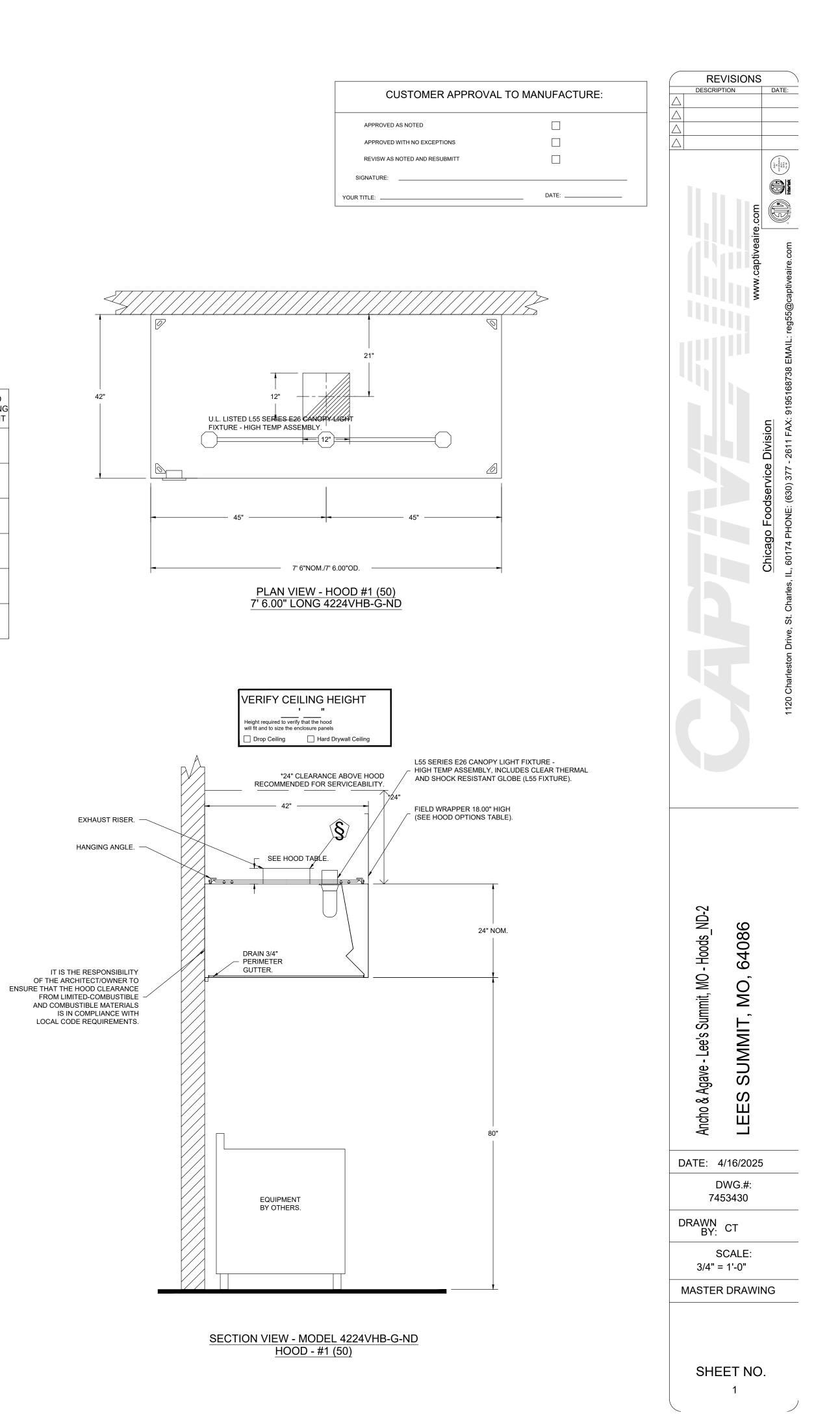


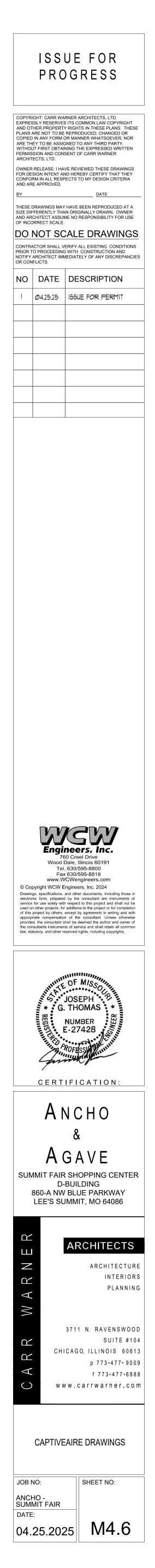


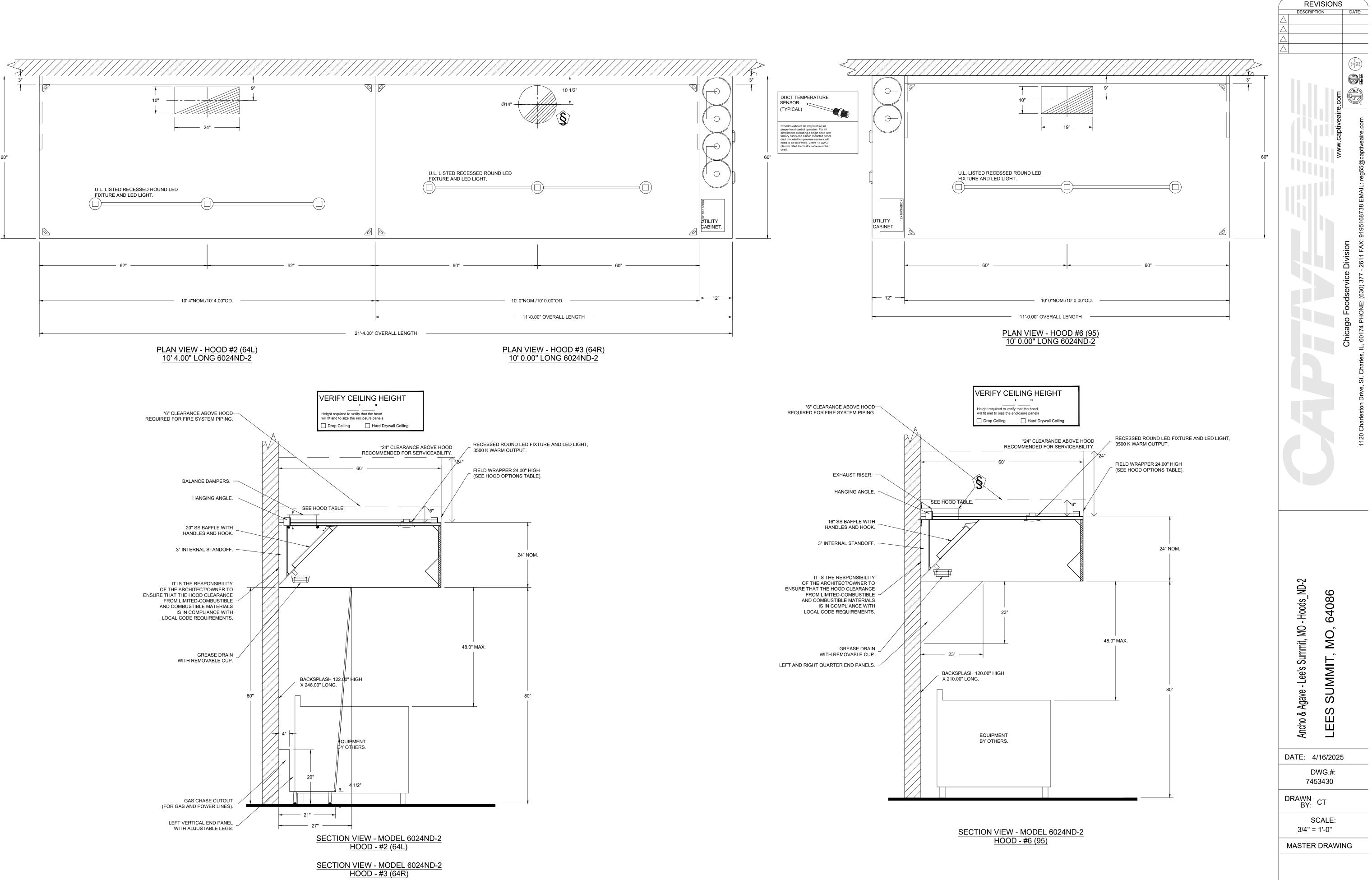


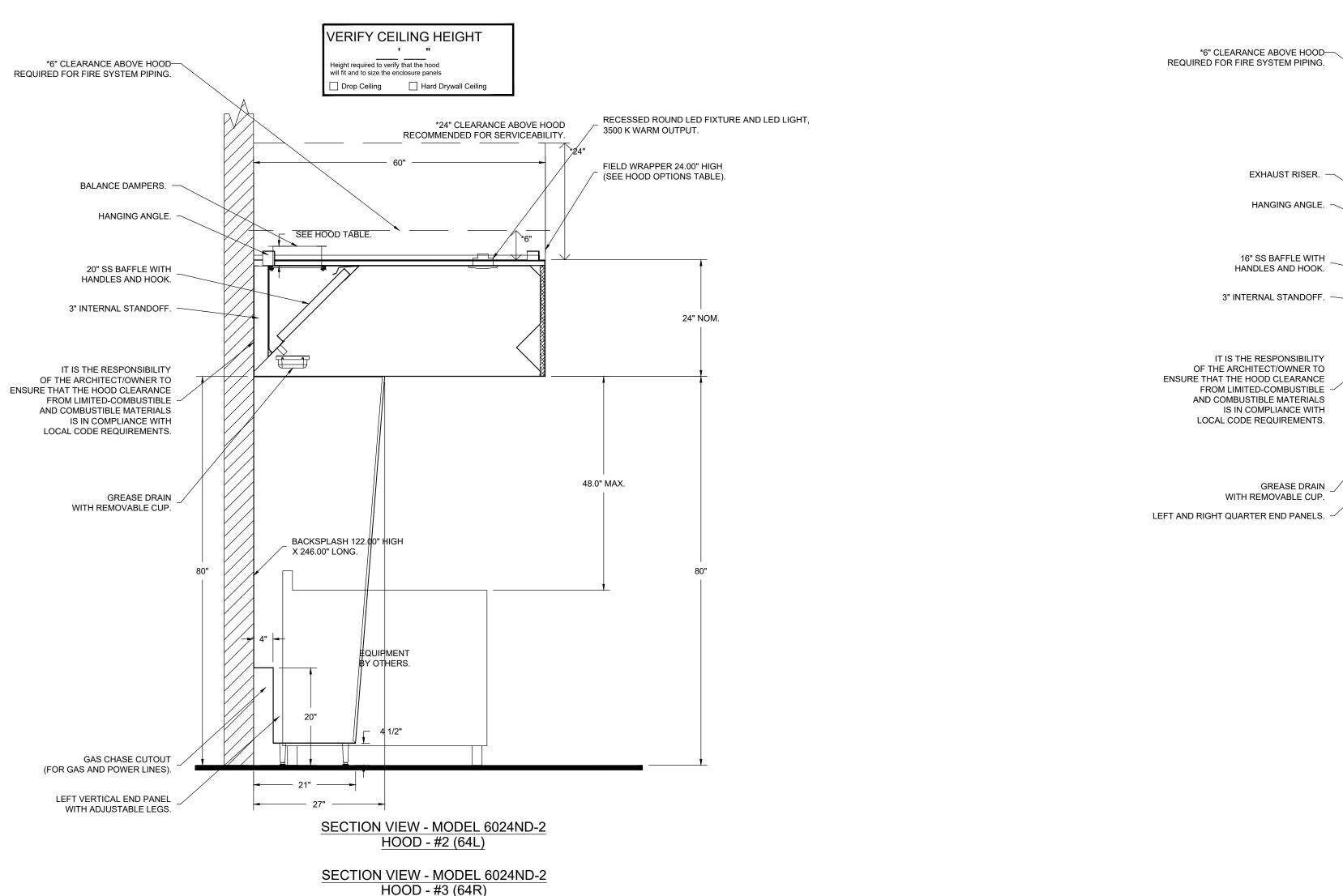
		Chicago F R PHONE EMAIL: reg	TIONS, CALL oodservice Division REGION 55 : (630) 377 - 2611 :55@captiveaire.com				PATENT EXHAUST H		_	2 (CANADA)	- CA PAT	ENT 252	0435 C.										
OOD 100D			JOB#7453430			MAX		APPLIANCE	DESIGN	TOTAL				T PLENUM ER(S)			HOOD	HOOD CONFIG		SWITCHES			
NO	TAG	MODEL	MANUFACTURE		ENGTH	COOKING TEMP	TYPE '	DUTY	CFM/FT	EXH CFM	WIDTH	LENG		IA CFM	VEL	SP	CONSTRUCTIO	DN END TO ROW	QUANTITY				
1	50	4224 VHB-G-ND	CAPTIVEAIRE		7' 6"	700 DEG	II	N/A	150	1125	12"	12"	4"	1125	1125	-0.119"	430 SS 100%	ALONE ALONE	1 FAN 1 LIGHT	FRONT LE FACE			
2	64L	6024 ND-2	CAPTIVEAIRE		10' 4"	600 DEG	I	HEAVY	250	2583	10"	24"	4"	2583	1550	-0.390"	430 SS WHERE EXPOS	ED LEFT ALONE					
3	64R	6024 ND-2	CAPTIVEAIRE		10' 0"	600 DEG	I	HEAVY	200	2000			4" 1	4" 2000	1871	-0.534"	430 SS WHERE EXPOS	ED RIGHT ALONE					
4	68L	6024 ND-2	CAPTIVEAIRE		10' 6"	600 DEG	I	HEAVY	200	2100	10"	20"	4"	2100	1512	-0.429"	430 SS WHERE EXPOS						
5	68R	6024 ND-2	CAPTIVEAIRE		10' 0"	600 DEG	I	HEAVY	200	2000	10"	19"	4"	2000	1516	-0.414"	430 SS WHERE EXPOS						
6	95	6024	CAPTIVEAIRE		10' 0"	600 DEG	I	HEAVY	200	2000	10"	19"	4"	2000	1516	-0.414"	430 SS						
		ND-2				DEG											WHERE EXPOS	ED					
OOD	TAG				FILTER(S	,					LIGHT(S)	WIRE			0.75	FI	UTILITY CABINET(S) IRE SYSTEM	ELEC		SWITCHES	FIRE	
NO			ГҮРЕ	QTY	HEIGHT	LENGTH	EFFICIENCY	7 @ 7 MICRO	NS QTY		TYPE		GUARD	LOCATION	1	SIZE	TYPE	SIZE	MO	DEL #	QUANTITY		WEIGH
1	50								3	L55	5 SERIES	E26	NO									NO	268 LBS
2	64L	SS BAFFLE	WITH HANDLES	7	20"	16"	:	30%	3	RECE	ESSED R	OUND	NO									YES	526 LBS
3	64R	SS BAFFLE	WITH HANDLES	7	16"	16"	:	30%	3	RECI	ESSED R	OUND	NO	RIGHT	12"	'x60"x24"	TANK FS	4.0/4.0/4.0/4.0				YES	1007 LBS
4	68L	SS BAFFLE	WITH HANDLES	7	16"	16"		30%	3	RECI	ESSED R	OUND	NO									YES	540 LBS
5	68R	SS BAFFLE	WITH HANDLES	7	16"	16"	:	30%	3	RECE	ESSED R	OUND	NO	RIGHT	12"	'x60"x24"	TANK FS	4.0/4.0/4.0/4.0				YES	1013 LBS
6	95	SS BAFFLE	WITH HANDLES	7	16"	16"		30%	3	RECE	ESSED R	OUND	NO	LEFT	12"	'x60"x24"	TANK FS	4.0/4.0				YES	790 LBS
DOD	OPTIO	NS TAG							OPTION								CAPTIVE-A	IRE HOODS ARE					
NO 1		50	FIELD WRAPF	PER 1	8.00" HIG	GH FRON	T, LEFT.											OMPLIANCE WITH					
			FIELD WRAPF				,	SS VERTICA	L.								NSF.	BUILT IN ACCORDANCE WITH NFPA No. 96					
2		64L	BALANCE DAM	IPERS.													TAN ARBOR WC						
			RISER SENSO				NIDTH, 21" E)TH, 80" I	HIGH INSU	LATED 4	30					Ν	IFPA #96 NSF					
			SS. FIELD WRAPF	PER 2	4.00" HIG	GH FRON	T, RIGHT.											ED 3054804-001 T _C710 STANDARD					
3		64R	BALANCE DAM			PI EN													<u> </u>				
			RIGHT VERTIC				WIDTH, 21"	BOTTOM W	IDTH, 80"	HIGH INS	ULATED	430				_							
			FIELD WRAPF				,																
4		691	BACKSPLASH BALANCE DAM			X 246.00"	LONG 430	SS VERTICA	L.														
4		68L)TU 00" '			30								OOD CORNER			
			LEFT VERTICA SS.					SOTTOM WIE	חות, 80"	IIGH INSU	LATED 4	JU						1/2" - 13 TPI GRADE 5 (MINIMUM) STEEL HEX NUTS.	HA	ANGING ANGLE	ER)		
			FIELD WRAPF	IPERS.			I, KIGHT.											1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHER.					
5		68R	RISER SENSO				WIDTH 21"	BOTTOM W	IDTH. 80"	HIGH INS	ULATED	430				_							
			SS. FIELD WRAPF						, 00							_		1/2" - 13 TPI GRADE 5 (MINIMUM) STEEL ALL-THREAD.					
			BACKSPLASH	120.0	0" HIGH	X 210.00"	LONG 430	SS VERTICA										1/2" - 13 TPI GRADE 5 (MINIMUM)					
6		95	RIGHT QUART				-											1/2" GRADE 5 (MINIMUM) STEEL	HA	DOD CORNER ANGING ANGLE VEIGHT BEARING			
			RISER SENSO						430 55 1/	RTICAL								FLAT WASHER.	È ÀN	VEIGHT BEARING NCHOR POINT DR HOOD).			
			OPTIONS ONL	Y: BAC	KSPLASH	H 122.00"	HIGH X 184.	00" LONG	430 SS VE	RTICAL.									👅 (МІ	2" GRADE 5 IINIMUM) STEEL			
			OPTIONS ONL													_			ÈL/	AT WASHER.			
			OPTIONS ONL'	Y: LEF	T SIDESF	PLASH 122	2.00" HIGH X	30.00" LONG	G 430 SS	VERTICAL.	400.00		٨١						GR	RADE 5 (MINIMUM)			
7	Dish	ı wall flashing	OPTIONS ONL															ASSEMBL	Y INSTRU	CTIONS			
			OPTIONS ONL'										AL.					HANGING ANGLE M (MINIMUM) ALL-THF					
			VERTICAL.													_		ANCHOR POINTS V AND 1/2" - 13 TPI G	VITH 1/2" GR	RADE 5 (MINIMU	M) STEEL FLAT	WASHERS	
			VERTICAL.													_		DOUBLED HEX NUT ANGLES AND ABO	CONFIGUE	RATION BENEAT	TH HOOD HANGI	NG	
	-		OPTIONS ONL	Y: BAC	KSPLASH	H 122.00"	HIGH X 36.0	0" LONG 4	30 SS VE	RTICAL.								THREADS BENEAT FT-LBS.					
8	Арр	Cook-splash	OPTIONS ONL'													_							
			OPTIONS ONL																				
ALL-	MOUN	T UTILITY (014/1701-171													
1				F	IRE SYS	ı⊨M	E	ELECTRICAL		SWITCHES		WEIG											
OOD NO	LOCAT	TION S	IZE TYF	ΡE		SIZE		MODEL #		QUANTITY		VVEIC											





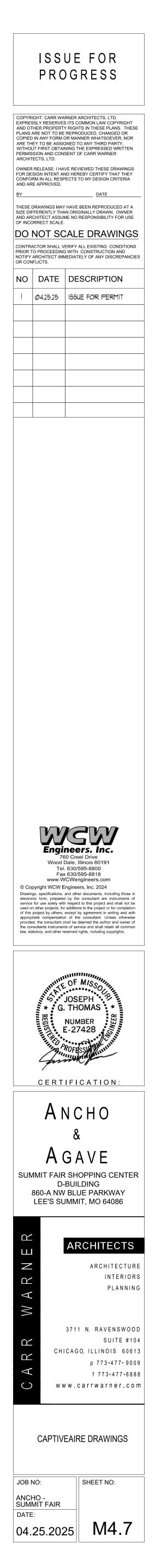


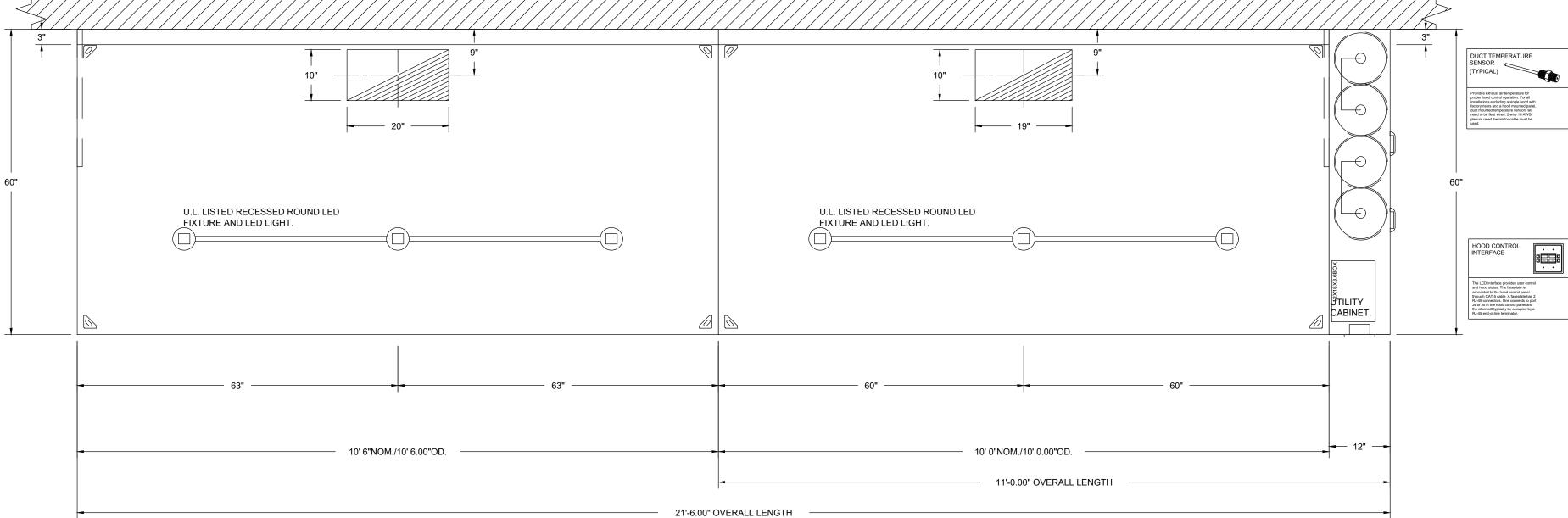




SHEET NO.

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PLAN VIEW - HOOD #4 (68L) 10' 6.00" LONG 6024ND-2

*6" CLEARANCE ABOVE HOOD REQUIRED FOR FIRE SYSTEM PIPING.

BALANCE DAMPERS. -

HANGING ANGLE. -

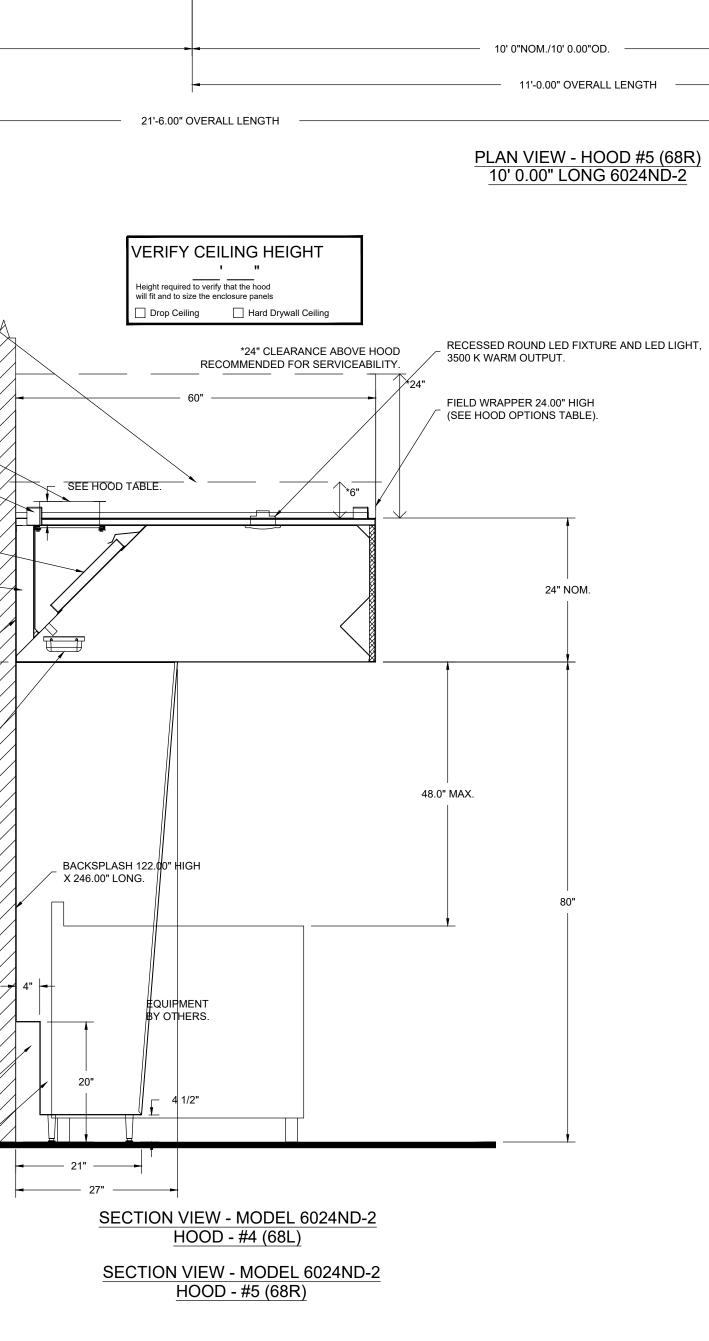
16" SS BAFFLE WITH _____ HANDLES AND HOOK.

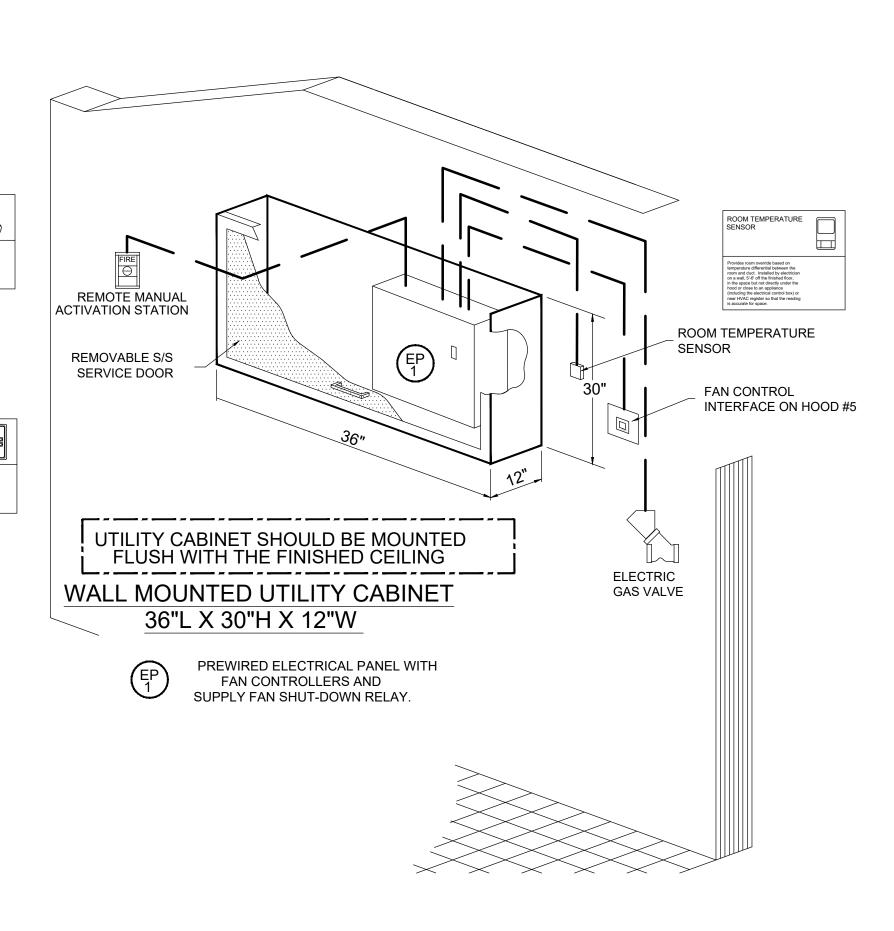
3" INTERNAL STANDOFF. —

IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE – AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

GAS CHASE CUTOUT (FOR GAS AND POWER LINES).

LEFT VERTICAL END PANEL UITH ADJUSTABLE LEGS.

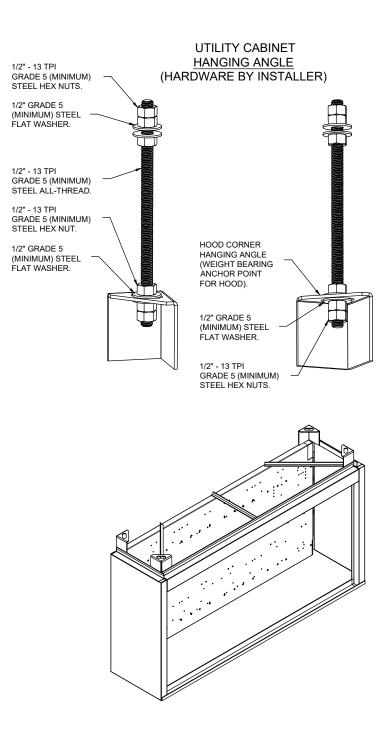




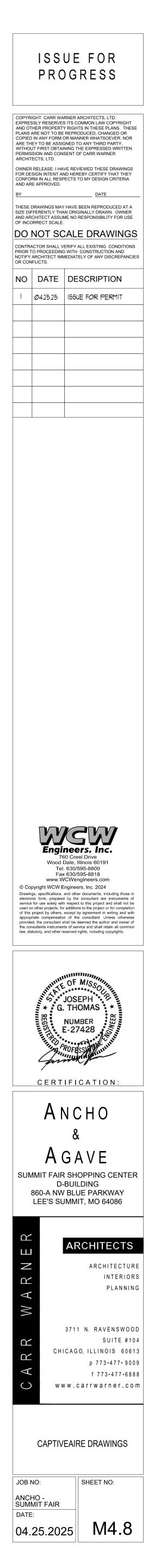
WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

CABINET TO BE HUNG BY OTHERS. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.

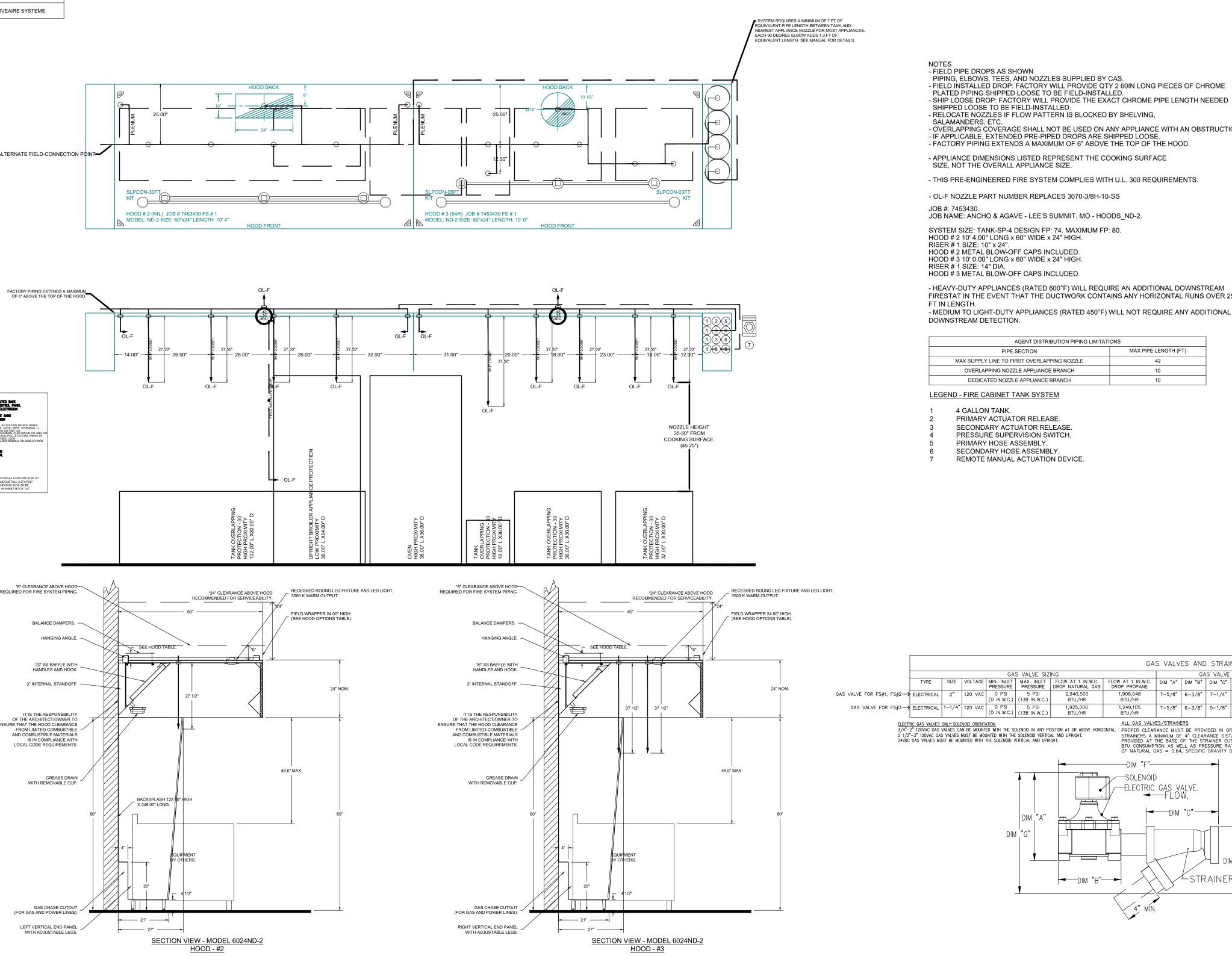
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

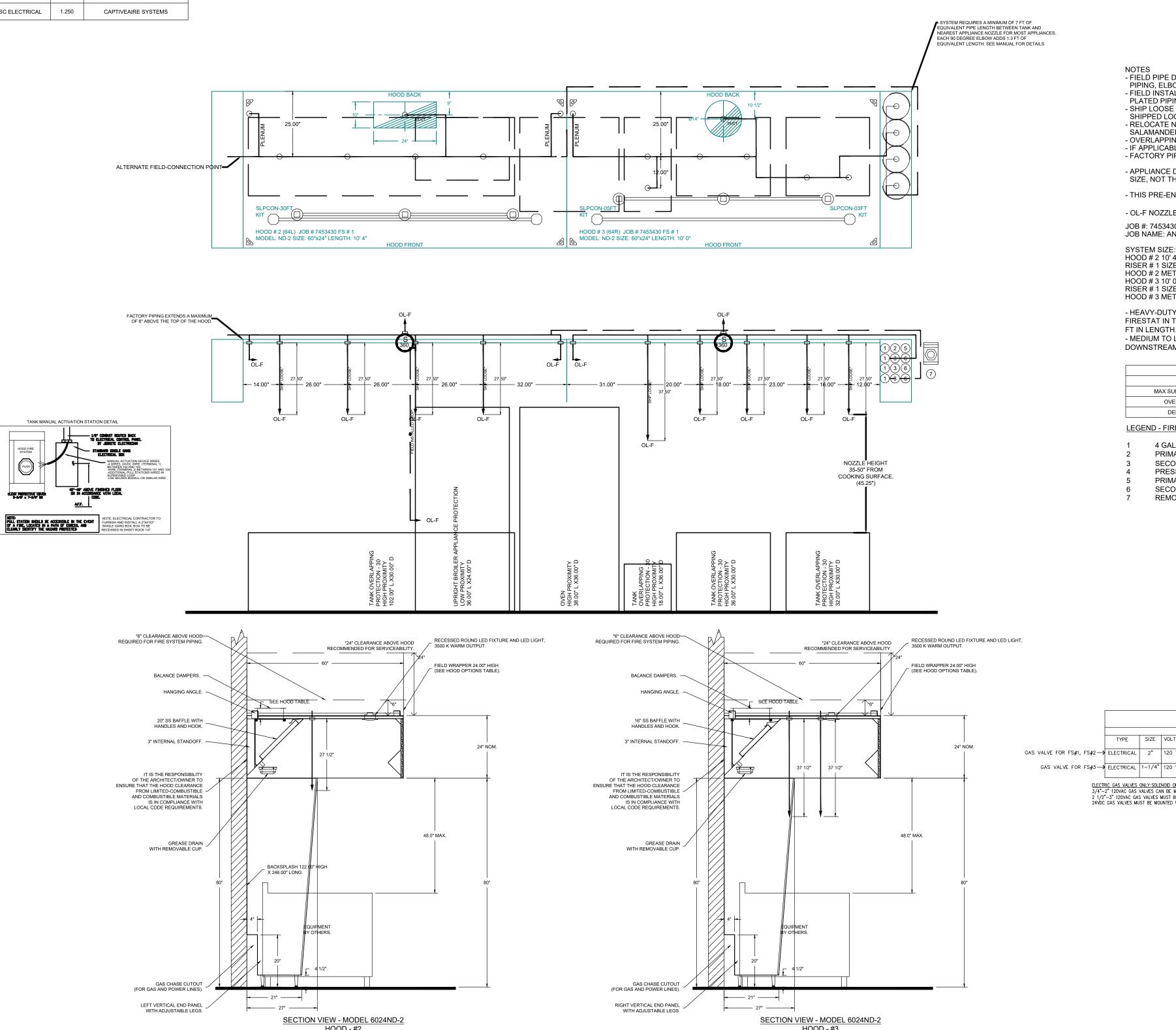


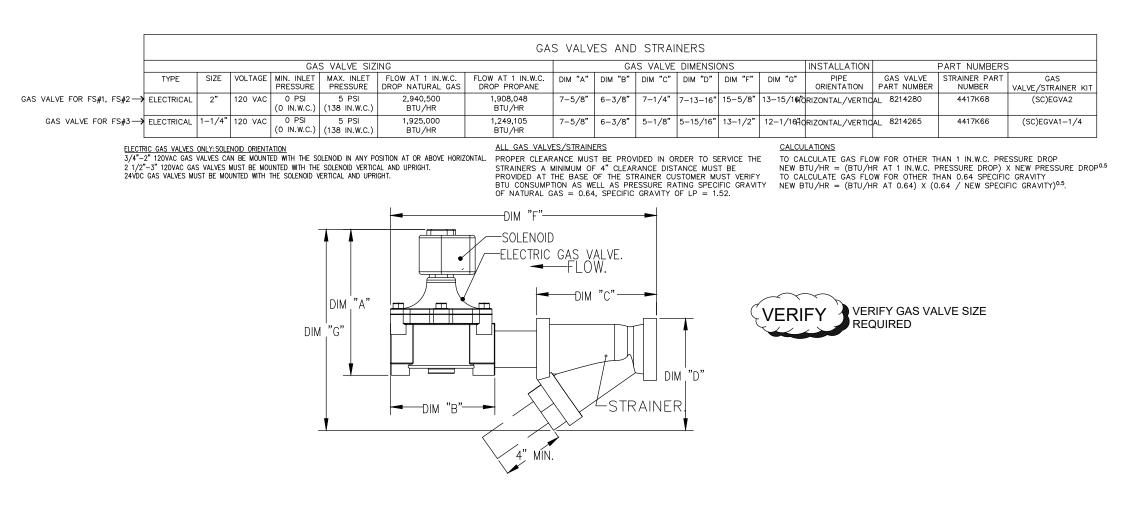




FIRE						DESIGN	INSTALLA	TION
SYSTEM NO	TAG	TYPE		SIZE	MAX FP	FP	SYSTEM	LOCATION ON HOOD
1	64.4	TANK FS		4.0/4.0/4.0/4.0	80	74	FIRE CABINET RIGHT	RIGHT, HOOD 3
2		TANK FS		4.0/4.0/4.0/4.0	80	70	FIRE CABINET RIGHT	RIGHT, HOOD 5
3	95.4	TANK FS		4.0/4.0	40	40	FIRE CABINET LEFT	LEFT, HOOD 6
GAS VAI FIRE SYSTEM NO		ТҮРЕ	SIZE	SUPPLIED BY				
1	64.4	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS				
2		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS				
3	95.4	SC ELECTRICAL	1.250	CAPTIVEAIRE SYSTEMS				



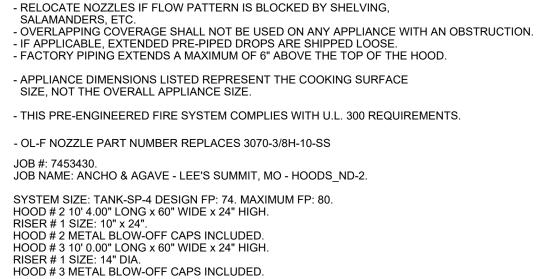




PIPE SECTION	MAX PIPE LENGTH (FT)
LINE TO FIRST OVERLAPPING NOZZLE	42
PPING NOZZLE APPLIANCE BRANCH	10
ATED NOZZLE APPLIANCE BRANCH	10
ABINET TANK SYSTEM N TANK. Y ACTUATOR RELEASE. ARY ACTUATOR RELEASE. RE SUPERVISION SWITCH. Y HOSE ASSEMBLY. ARY HOSE ASSEMBLY. MANUAL ACTUATION DEVICE.	

EVENT THAT THE DUCTWORK CONTA	AINS ANY HORIZONTAL RUNS	OVE
IT-DUTY APPLIANCES (RATED 450°F) TECTION.	WILL NOT REQUIRE ANY ADDI	τιοι
AGENT DISTRIBUTION PIPING LIMITAT	IONS	
PIPE SECTION	MAX PIPE LENGTH (FT)	
LINE TO FIRST OVERLAPPING NOZZLE	42	
PING NOZZLE APPLIANCE BRANCH	10	
TED NOZZLE APPLIANCE BRANCH	10	
ABINET TANK SYSTEM		
I TANK. ACTUATOR RELEASE. ARY ACTUATOR RELEASE. RE SUPERVISION SWITCH.		

LOW-OFF CAPS INCLUDED.				
PLIANCES (RATED 600°F) WILL REQUI				
T-DUTY APPLIANCES (RATED 450°F) TECTION.	WILL NOT REQUIRE ANY ADDI	FIONAL		
AGENT DISTRIBUTION PIPING LIMITATIONS				
PIPE SECTION	MAX PIPE LENGTH (FT)			





An

DATE: 4/16/2025

DRAWN BY: CT

DWG.#:

SCALE:

1/2" = 1'-0"

MASTER DRAWING

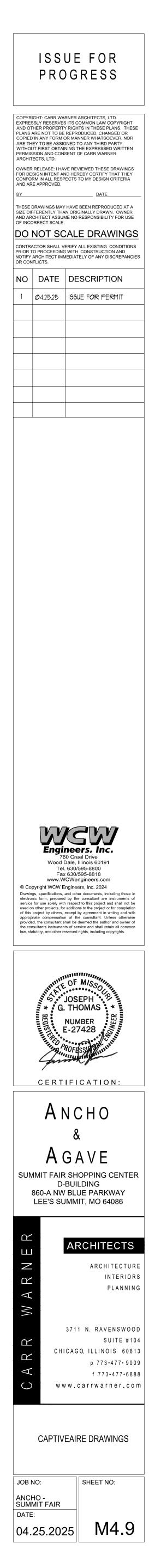
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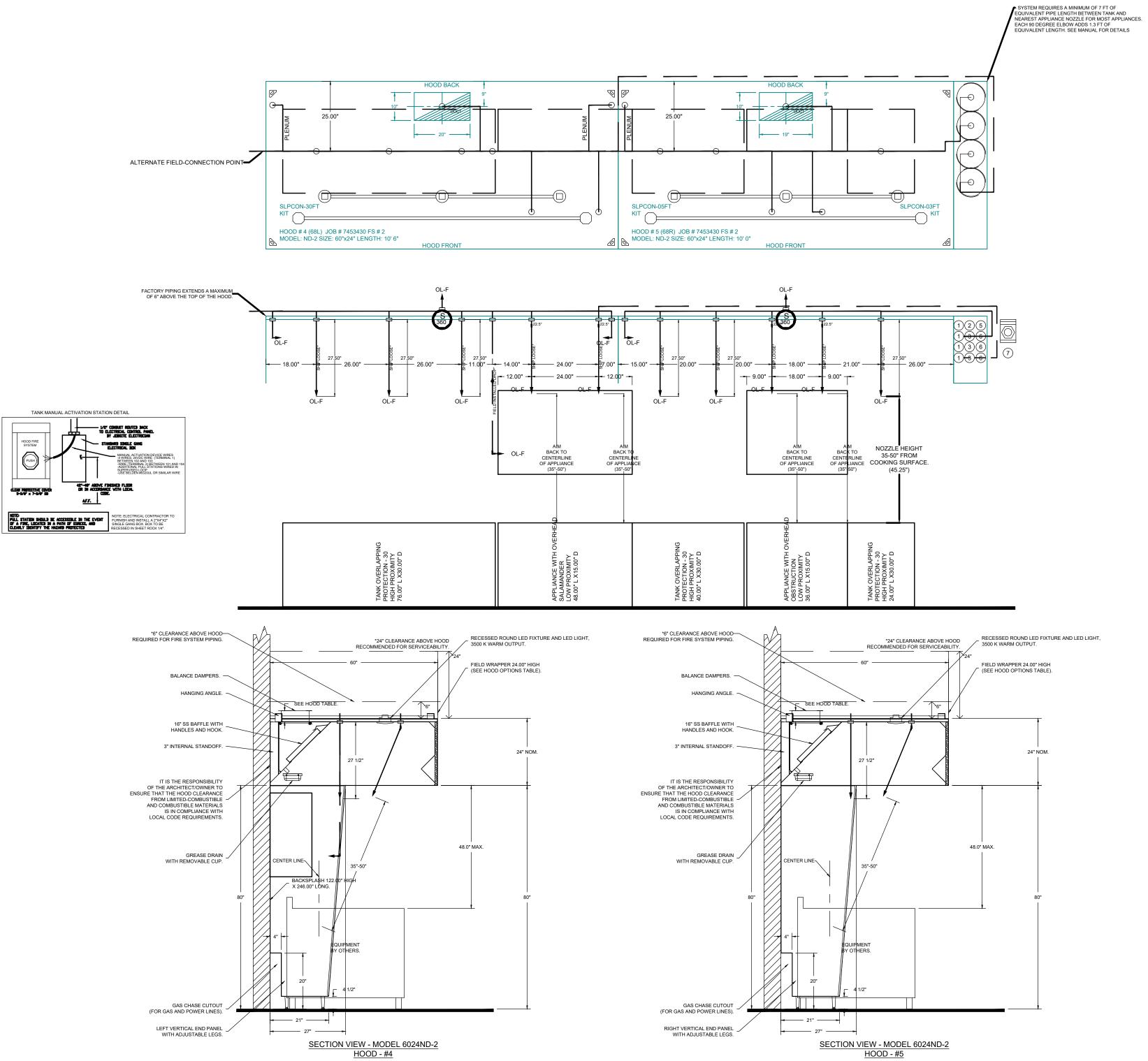
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7453430

REVISIONS

DESCRIPTION DATE:





SECTION VIEW - MODEL 6024ND-2 HOOD - #4



LACES 3070-3/8H-10-SS	
S SUMMIT, MO - HOODS_ND-2.	
P: 70. MAXIMUM FP: 80. x 24" HIGH.	
INCLUDED. x 24" HIGH.	
INCLUDED.	
0 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25	

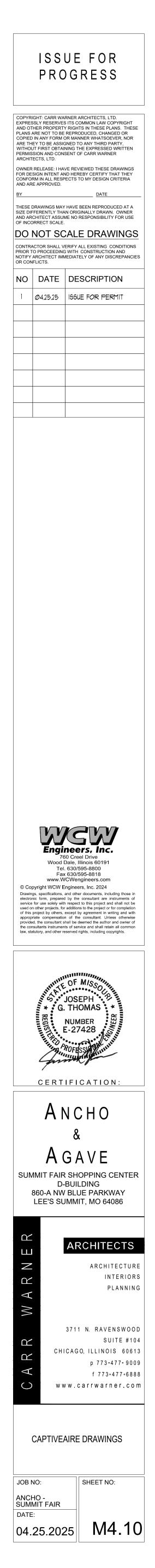
DISTRIBUTION PIPING LIMITATIONS					
1	MAX PIPE LENGTH (FT)				
RLAPPING NOZZLE	42				
IANCE BRANCH	10				
ANCE BRANCH	10				
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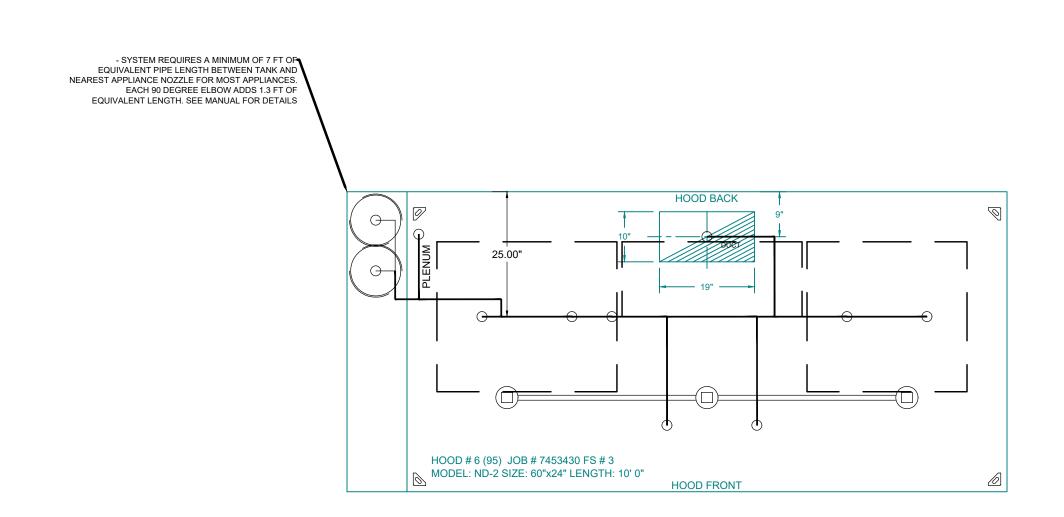
REVISIONS

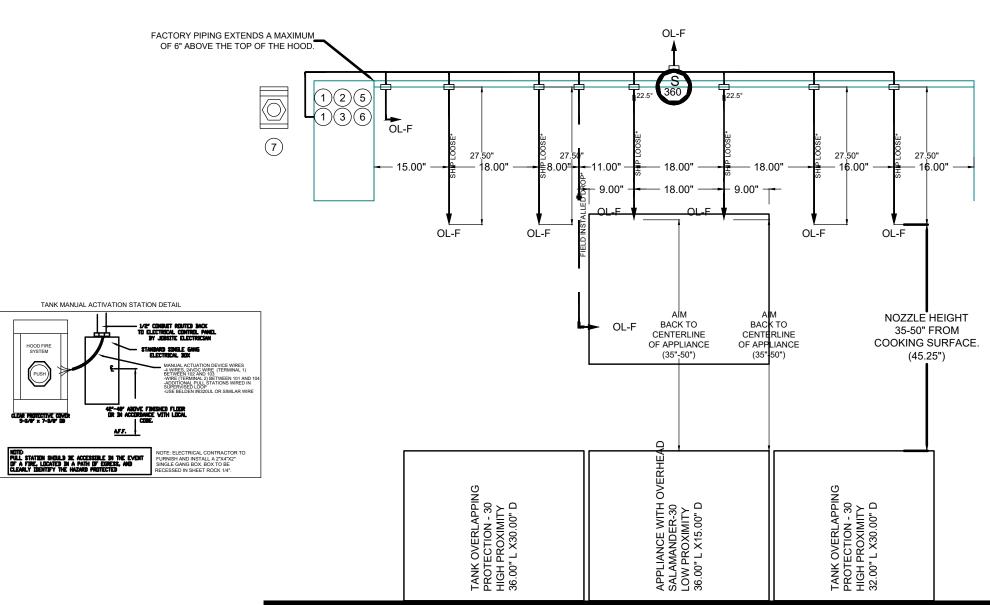
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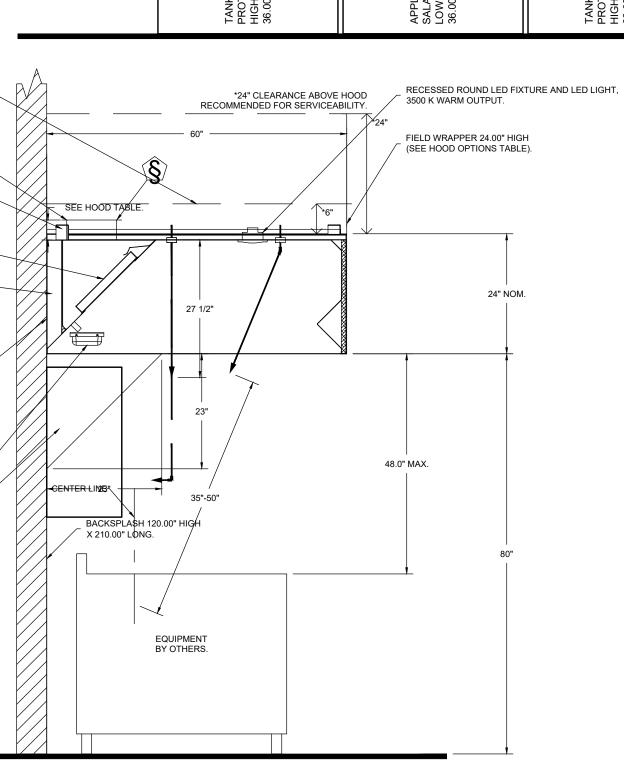
DESCRIPTION

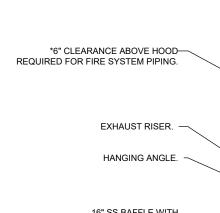






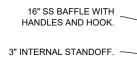


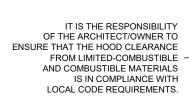




HOOD FIRE SYSTEM

CLEAR PROTECTIVE COVER 5-3/9" × 7-3/9" EB





GREASE DRAIN WITH REMOVABLE CUP. LEFT AND RIGHT QUARTER END PANELS. ~

> SECTION VIEW - MODEL 6024ND-2 HOOD - #6

NOTES - FIELD PIPE DROPS AS SHOWN

- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS. - FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED. - SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED
- SHIPPED LOOSE TO BE FIELD-INSTALLED. - RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING,
- SALAMANDERS, ETC. - OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION. - IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE. - FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
- JOB #: 7453430. JOB NAME: ANCHO & AGAVE - LEE'S SUMMIT, MO - HOODS_ND-2.
- SYSTEM SIZE: TANK-SP-2 DESIGN FP: 40. MAXIMUM FP: 40.
- HOOD # 6 10' 0.00" LONG x 60" WIDE x 24" HIGH. RISER # 1 SIZE: 10" x 19".
- HOOD # 6 METAL BLOW-OFF CAPS INCLUDED.
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25

FT IN LENGTH. - MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

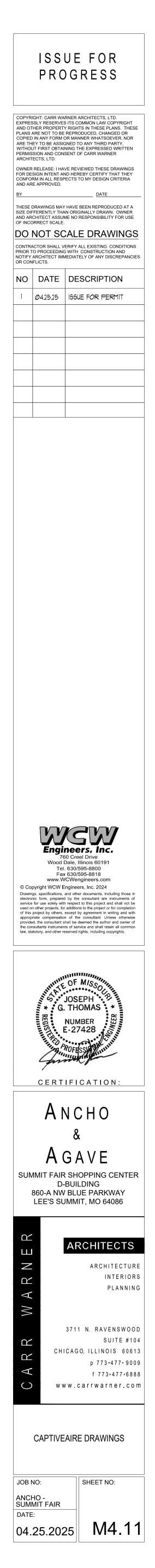
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

EQUIPMENT LAYOUT CHANGES.

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE. SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH. PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

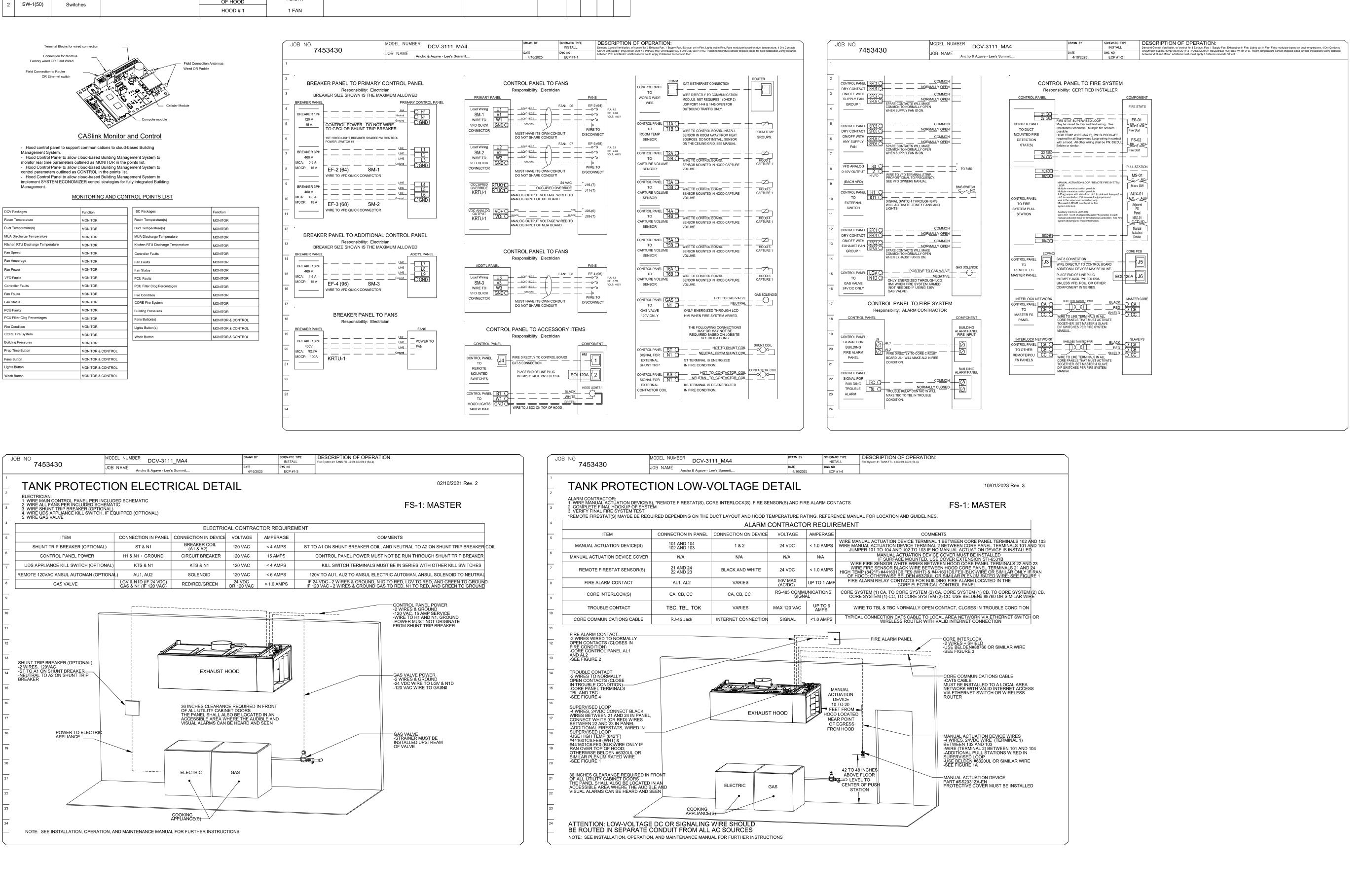
INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST. EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO

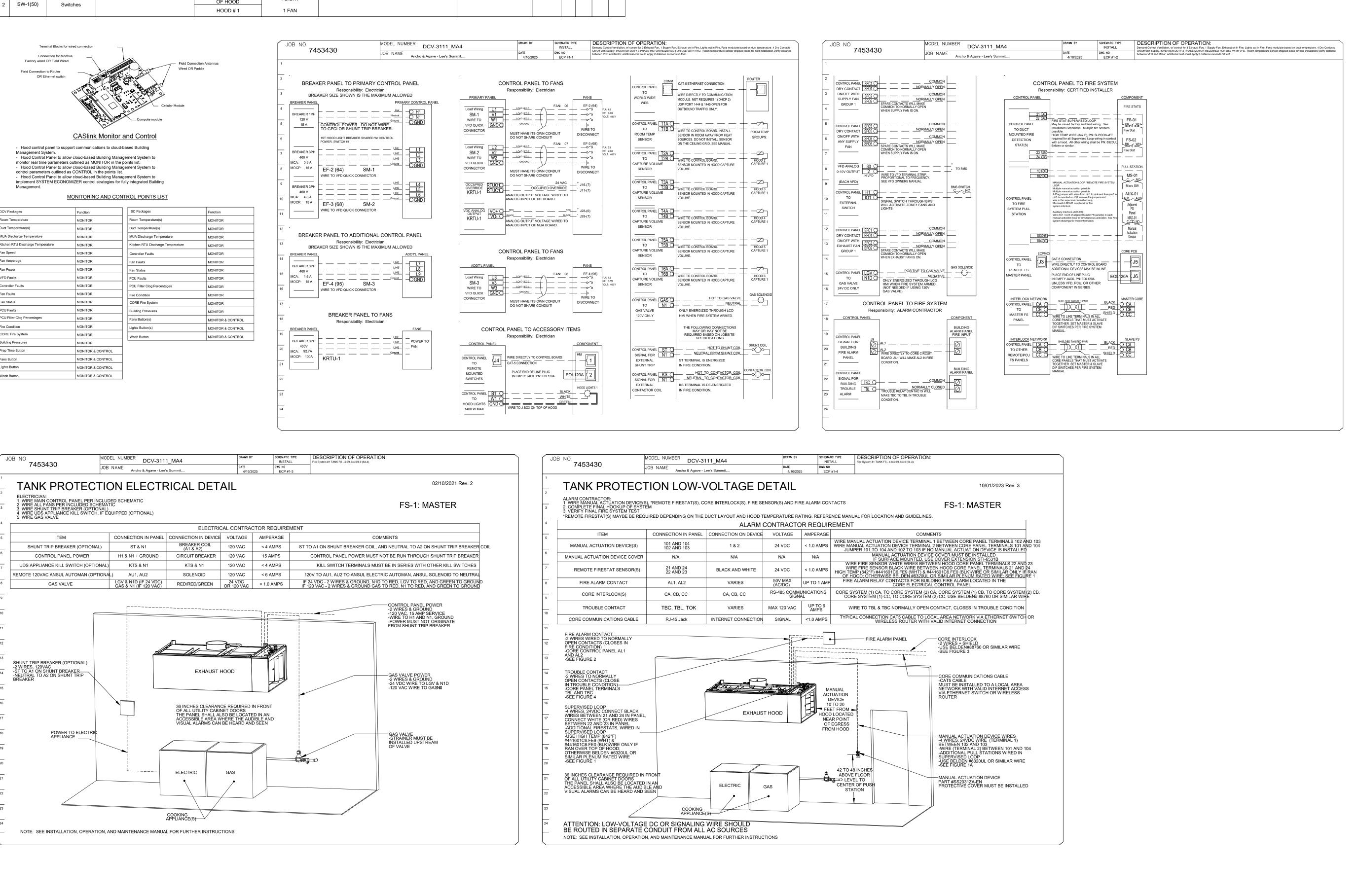
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DWG.#: 7453430 DRAWN BY: CT SCALE: 1/2" = 1'-0" MASTER DRAWING		Ancho & Agave - Lee's Summit, MO - Hoods_ND-2					
BY: CT SCALE: 1/2" = 1'-0" MASTER DRAWING		7	DW 74534	G.#:			
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		1/2					



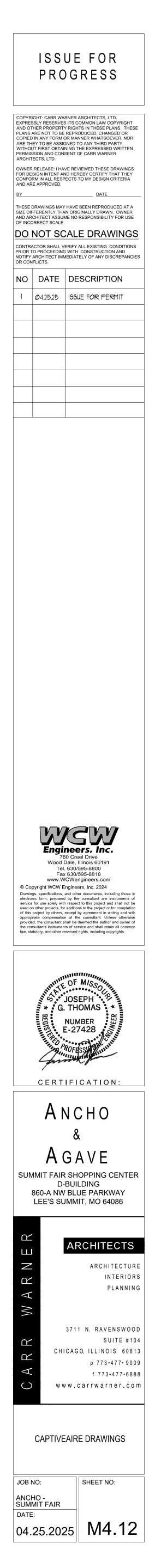
ELECTRICAL PACKAGE - JOB#7453430

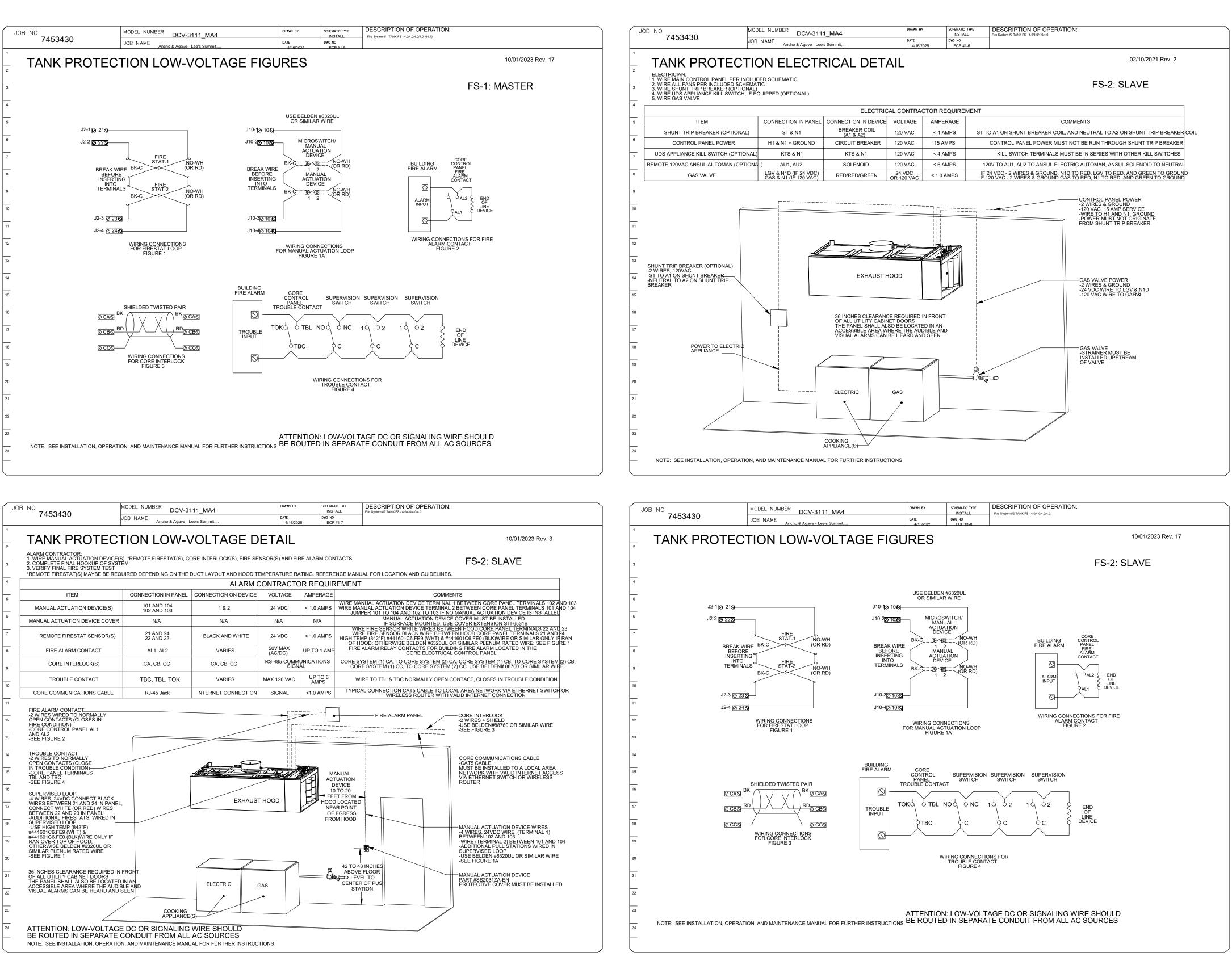
NO	10	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
					LOCATION	QUANTITY		FAN TAG	TYPE	ф	HP	VOLT	FLA
		ECP(68.3) DCV		WALL UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	KRTU-1	SUPPLY	3	7.500	460	10.1
			DCV-3111 MA4					EF-2 (64)	EXHAUST	3	3.000	460	4.6
	'		DOV-STIT_IVIA4		HOOD # 5	1 FAN		EF-3 (68)	EXHAUST	3	2.000	460	3.8
								EF-4 (95)	EXHAUST	3	0.750	460	1.3
		0)4/ 4/50)) Switches		FACE MOUNT LEFT SIDE OF HOOD	1 LIGHT							
	2	SW-1(50)			HOOD # 1	1 FAN							

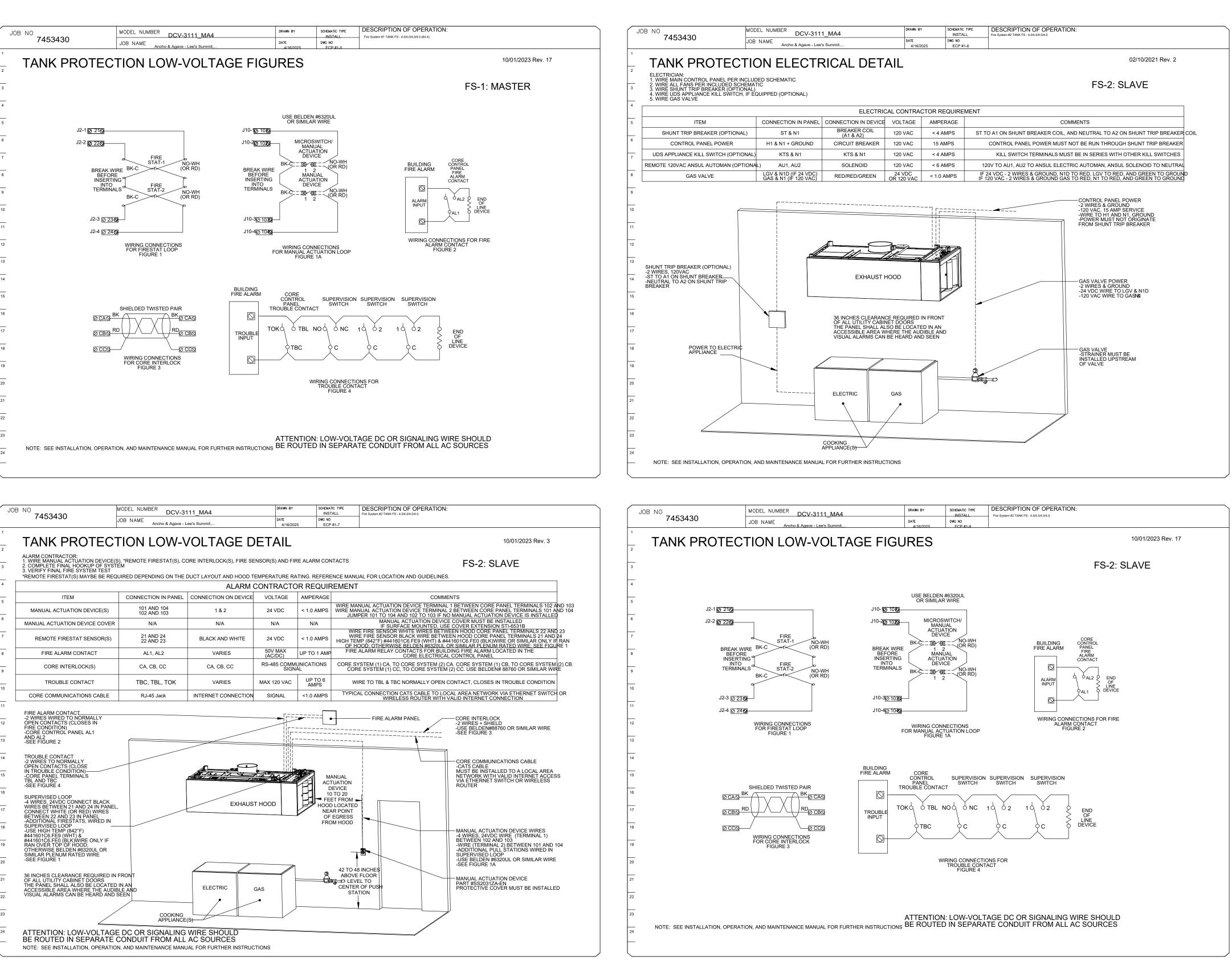




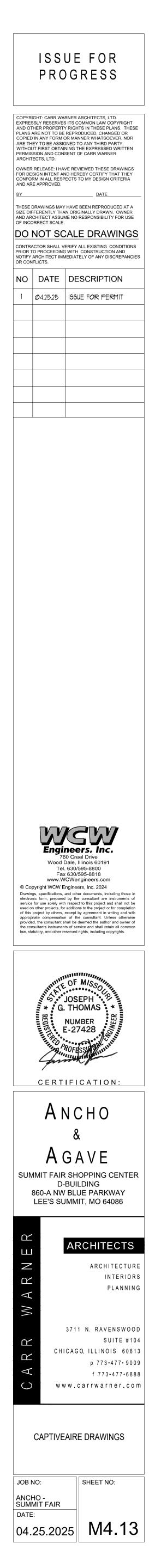


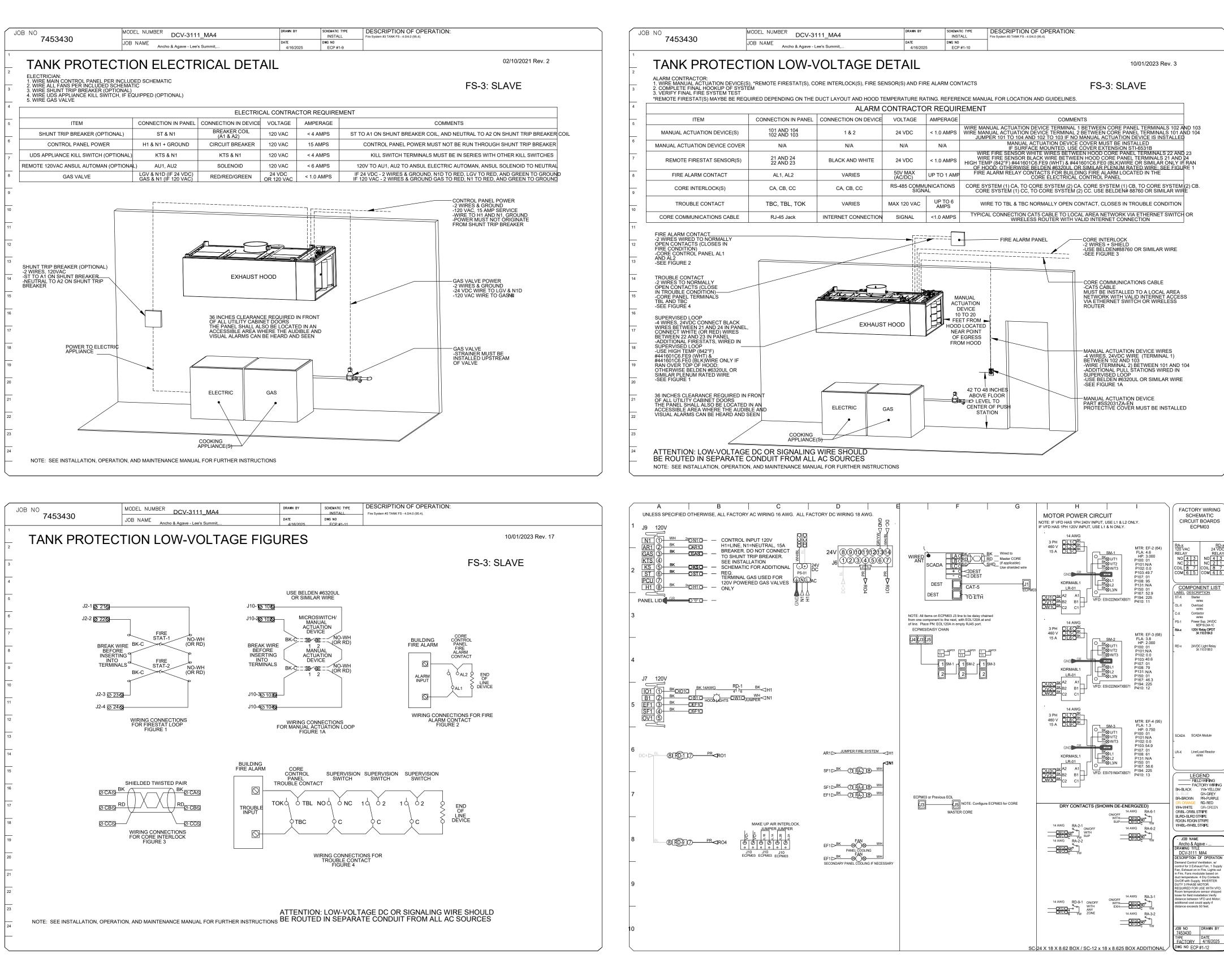


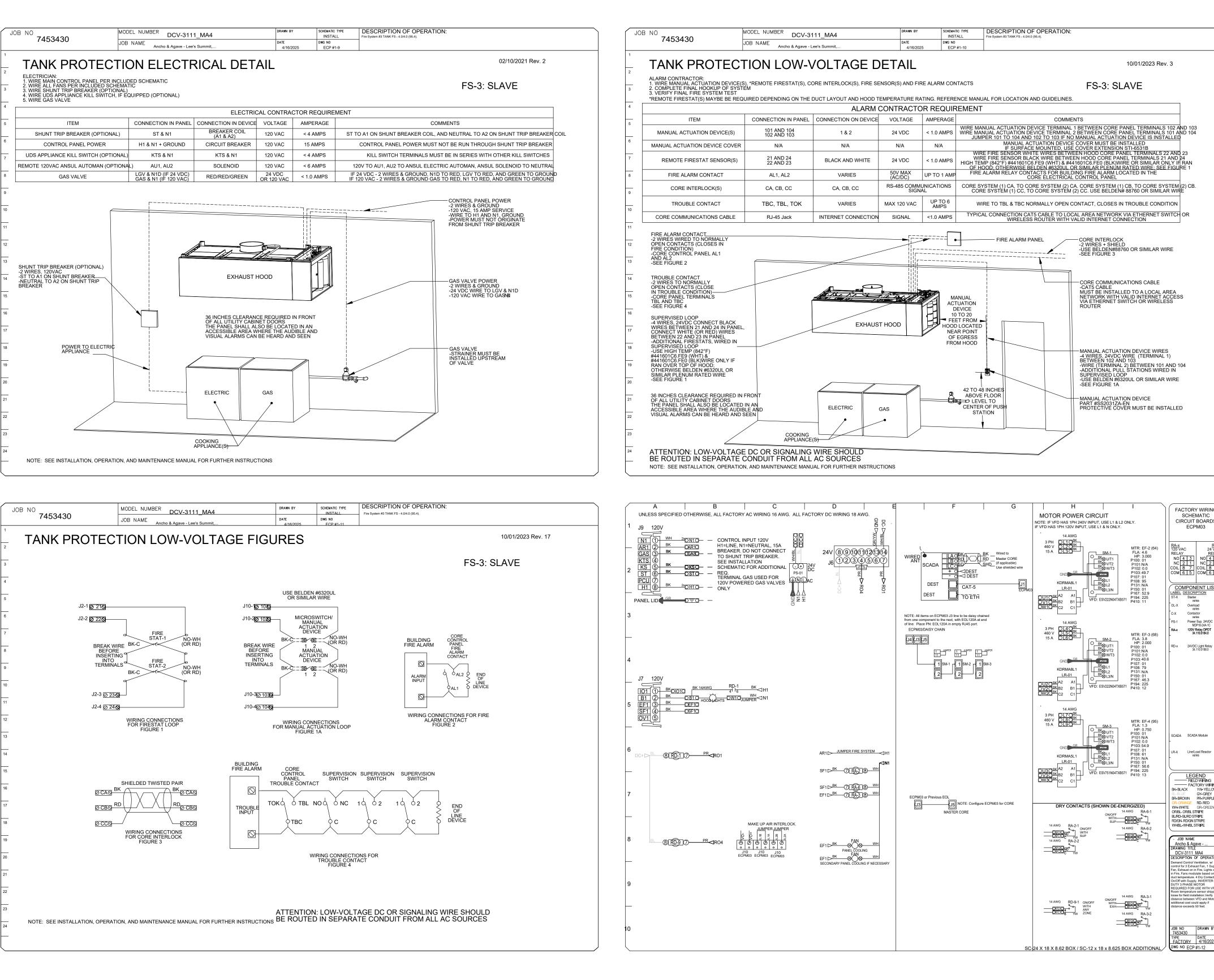




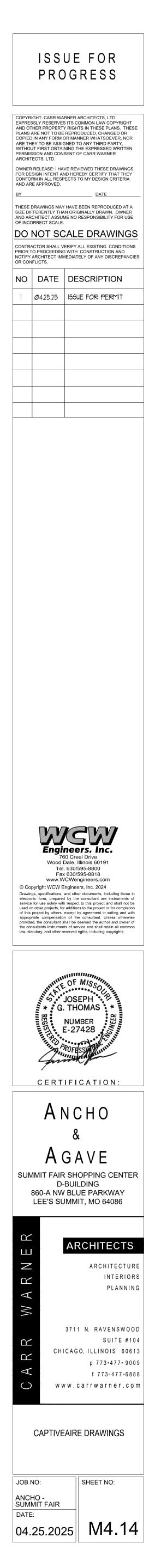
		VISIO PTION	NS	DA	TE:
			www.captiveaire.com		1120 Charleston Drive, St. Charles, IL, 60174 PHONE: (630) 377 - 2611 FAX: 9195168738 EMAIL: reg55@captiveaire.com
	Ancho & Agave - Lee's Summit, MO - Hoods_ND-2	I FES SUMMIT MO 64086)		
	C 74	4/16/2)WG.# 53430	ŧ:		
D D	RAWN BY:	СТ			
		CALE = 1'-0"			

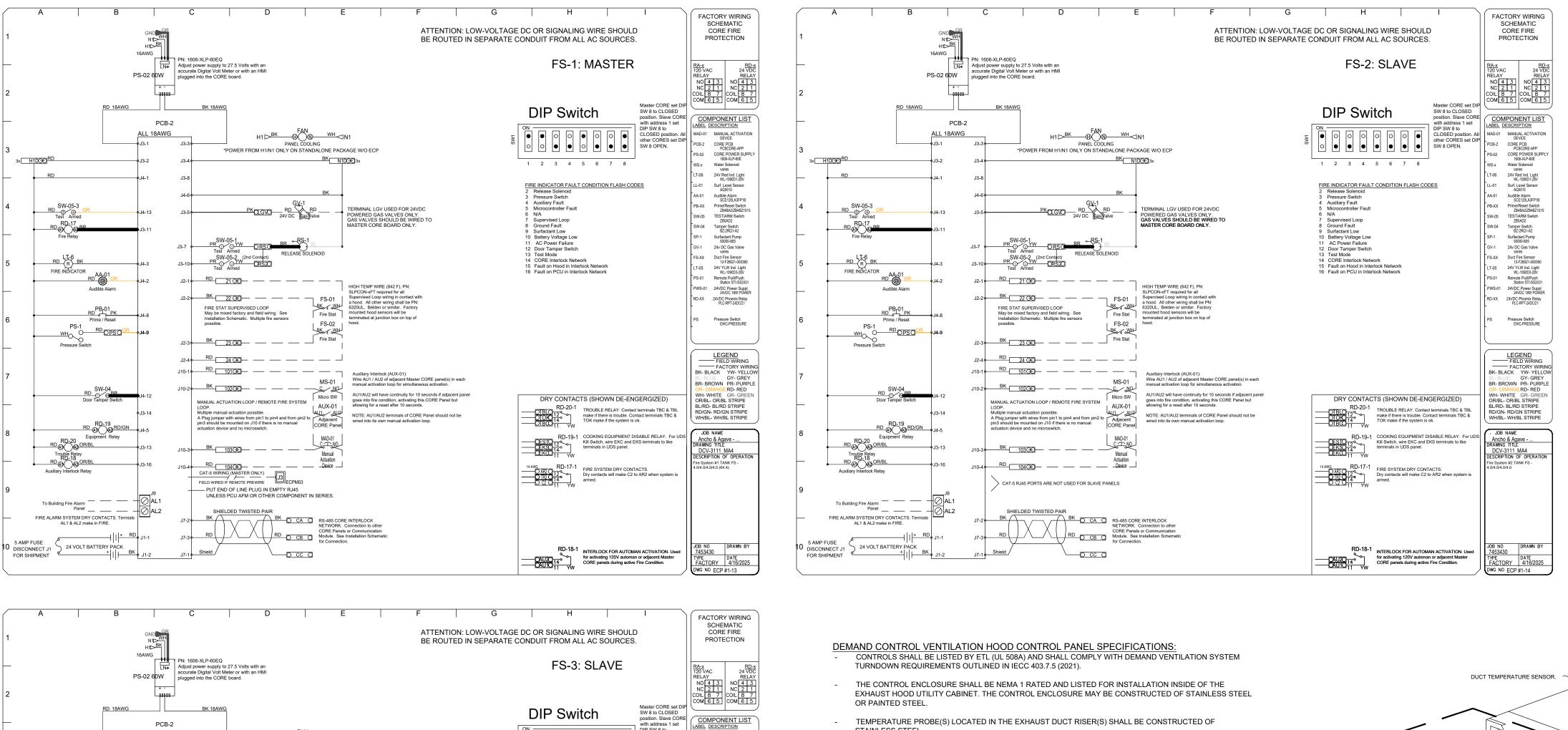


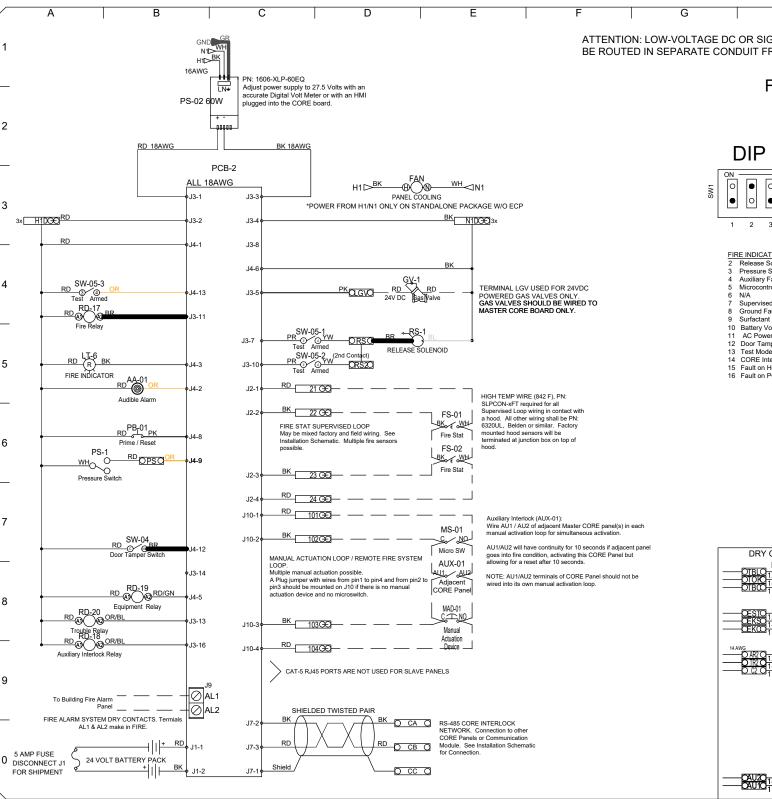




	REVIS		DATE:
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		www.captiveaire.com	Chicago Foodservice Division 1120 Charleston Drive, St. Charles, IL, 60174 PHONE: (630) 377 - 2611 FAX: 9195168738 EMAIL: reg55@captiveaire.com
	Ancho & Agave - Lee's Summit, MO - Hoods_ND-2	LEES SUMMIT, MO, 64086	
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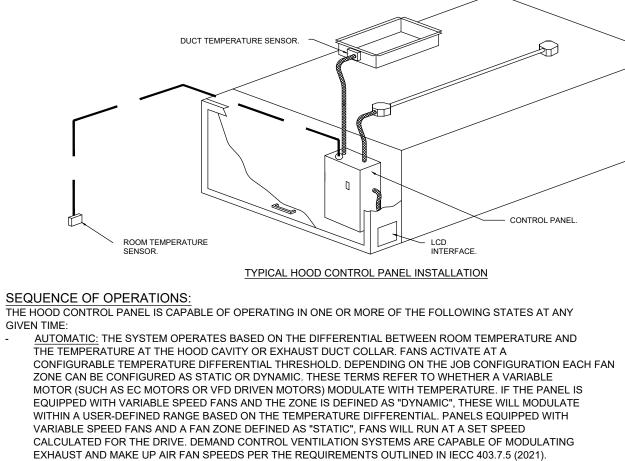
P Switch Master CORE set DIF SW 8 to CLOSED position. Slave CORE	
Image: State of the state o	COMPONENT LIST LABEL DESCRIPTION MAD-01 MANUAL ACTIVATIO DEVICE PCB-2 CORE FCB PCB-02 CORE FCB PCB-02 CORE FOR 1606 XLP-00F 1606 XLP-00F WS-x Water Solenoid varies
SATOR FAULT CONDITION FLASH CODES 6 Solenoid 9 Fault 9 Fault 15 Fault 16 Constant 16 Constant 17 Constant 18 Const	LT-06 24V Red Ind. Lipit WIL-109001-28V WIL-109001-28V LL-01 Surf. Level Sensor Ad5510 AA-01 Audile Alam S05210 Surf. Level Sensor Ad5510 PB-XX PrimeReset Switch Z54A0224827011 SW-04 Tamper Switch E25A012 SW-04 Tamper Switch E25A0142 SV-1 Surfactant Pump 5000-805 GV-1 24V DC Gas Valve Waries FS-XX Duct Fire Sensor LT-05 24V YLW Ind. Light WL-10900-248V PN-01 24VDC Power Supp1 PWS-01 24VDC Phoenix Relay PLC-RP1-240C21 PS Pressure Switch EWCPRESSURE
Y CONTACTS (SHOWN DE-ENGERGIZED) RD-20-1 TROUBLE RELAY. Contact terminals TBC & TBL make if there is trouble. Contact terminals TBC & TOK make if the system is ok.	LEGEND — FIELD WIRING — FACTORY WIR BK- BLACK YW- YELL BL- BLUE GY- GREY BR- BROWN PR- PURP OR- ORANGE RD- RED WH- WHITE GR- GREE OR/BL- OR/BL STRIPE BL/RD- BL/RD STRIPE RD/GN- RD/GN STRIPE WH/BL- WH/BL STRIPE
RD-17-1 FIRE SYSTEM DRY CONTACTS. RD-17-1 FIRE SYSTEM DRY CONTACTS. T1 YW RD-17-1 FIRE SYSTEM DRY CONTACTS. T2 Dry contacts will make C2 to AR2 when system is armed.	JOB NAME Ancho & Agave DRAWING TITLE DCV-3111 MA4 DESCRIPTION OF OPERATIC Fire System #3 TANK FS - 4.0/4.1 (95.4).
RD-18-1 INTERLOCK FOR AUTOMAN ACTIVATION. Used for activating 120V automan or adjacent Master CORE panels during active Fire Condition.	JOB NO DRAWN BY 7453430 DATE TYPE DATE FACTORY 4/16/2025 DWG NO ECP #1-15

- STAINLESS STEEL. A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED
- ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1. A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE
- FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING. VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL
- CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE
- AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT. A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION
- IS DETECTED ON A COVERED HOOD. A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
- A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION. B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED). C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
- D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
- E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION. F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION. G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.
- SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.



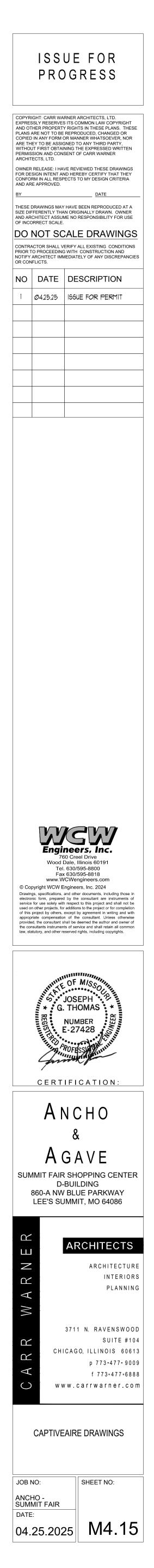
SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED. OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).

MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.

FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

GIVEN TIME:





SECTION 15050 MECHANICAL BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section defines the General Provisions which are common to all Sections of this Division.
- B. Furnish all labor, materials, tools and equipment; fabricate, and install complete and in place, all the fixtures, equipment and systems as shown on the drawings, specified herein, and as required for a complete and operable installation.
- C. The Contractor shall pay for all permits, fees and charges required for this
- 1.02 DRAWINGS AND SPECIFICATIONS
- A.Design Drawings: The Drawings accompanying these Specifications are generally diagrammatic. Any changes from the general routing shown on the Drawings such as offsets, bends or changes in elevation due to coordination with the Work of other trades and the building construction shall be done without additional charge to the Owner.
- B. Shop Drawings:
- 1. Shop Drawings shall be submitted for each and every item of manufactured and fabricated materials and equipment 2. Submit sufficient copies identically marked to allow Engineer and Owner's Representative to retain three (3) copies.
- 3. The Contractor shall make the required corrections and shall re-submit corrected submittals or submit requested information. The Contractor shall direct specific attention to the revisions.
- 4. The Engineer will review initial submittals and one (1) re-submittal. The Owner will compensate the Engineer for review of submittals after the first re-submittal and deduct such compensation from the amount owed the Contractor.
- 5. All mechanical equipment electrical and structural requirements shall be coordinated with other trades prior to purchase and installation of the equipment. Notify engineer with discrepancies immediately.

C.Record Drawings:

- 1. The Contractor shall keep an accurate record of all concealed pipes, ducts, valves, conduits, etc. In addition, he shall record, in a special set of Contract Drawings, all changes and deviations from the design drawings that occurred during the installation of the Work.
- 2. At completion of the job, these Drawings illustrating changes or deviations showing by dimension and location the exact position of all concealed pipes, valves, etc., shall be delivered to the Architect/Engineer.
- D. Specifications Refer to the following General Specifications as they are a part of all sections of this Division. 1. General Requirements Division; regarding but not limited to: Alteration Project Procedures, Submittals, Construction Facilities and Temporary Controls, Cleaning During Construction, and Product Options and Substitutions.
- 2. Existing Conditions Division Sitework; regarding but not limited to: Selective Demolition, Earthwork, Excavation and Backfilling. 3. Concrete Division - Concrete; regarding but not limited to: Cast-in-Place Concrete, Formwork and Reinforcement.
- E. It is the intention of this Specification Section that all items of material and equipment herein specified or shown on the Drawings for each Section shall be furnished by the Contractor for that Section, and installed by that Contractor, unless it is specifically stated in the section specification, or shown on the Drawings, that any item of material or equipment is to be furnished by the Contractor of a section and installed by the Contractors of other Sections, or furnished by other section Contractors and installed by the Contractor of the section.
- 1.03 PROPOSAL
- A.Submit proposal to include all materials and equipment by specific manufacturer and model as specified or scheduled on the drawings. Where the specification names a particular manufacturer and/or model number and additionally states "or acceptable substitute", the proposal shall be based on the named manufacturer and/or model number; however, the Contractor may submit on alternate manufacturers, stating the amount to be added to or the amount to be deducted from his bid as based on the specified manufacturer. The listing of a single manufacturer and/or model number is for the purpose of establishing a level of quality. It is not intended to inhibit competition in any form. The Engineer's decision as to what constitutes the level of quality and the acceptability of alternate products shall be final.
- B.For materials and equipment specified by naming several products or manufacturers, select any product or manufacturer named.
- C.For materials and equipment specified only by reference or performance standards, select any product which meets or exceeds those standards by any reputable manufacturer regularly engaged in the production of that product, subject to the review of the Owner's Representative.
- 1.04 SUBSTITUTIONS
- A.Prior to bid opening: The Owner's Representative and Engineer will consider written requests to amend the bidding documents to all products not specified, provided such requirements are submitted in accordance with these Contract Documents.
- B. With bid: A bidder may propose substitutions with his bid by completing the Substitution Sheet with the Bid Form, subject to the provisions stated thereon. The Engineer will review the Substitution Sheet of the low bidder and recommend acceptance or rejection by the Owner prior to the award of the Contract.
- C. After award of contract: No substitutions will be considered after Notice of Award except under one or more of the following conditions. 1. Substitution is required for compliance with final interpretations of Code
- requirements or insurance regulations. 2. Unacceptable delivery schedule or non-availability of specified products,
- through no fault of Contractor. 3. Subsequent information discloses inability of specified product to perform
- properly or to fit in designated space. 4. Manufacturer or fabricators refusal to certify or guarantee the performance of the specified product as specified.
- When a substitution would be to the Owner's substantial best interest.

1.05 SUBSTITUTION REQUIREMENTS

- A. The basic design and engineering of the project is not to be altered by proposed substitutions. "Pre-engineered" package units "off-the-shelf" will not be reviewed if all components of the system; i.e., system supply and return capacities, heating and cooling capacities and integrated temperature control system are not as scheduled and specified within limits as established by the Engineer.
- B. Whenever the words "or acceptable substitution" appear in these specifications, the Engineer's decision as to quality and relative merit shall be final. Whenever manufacturers or products are named in these specifications without the qualification "or acceptable substitute", selection of equipment and materials shall be confined to the manufacturer or manufacturers named. The allegation that furnishing materials or equipment in conformance to specifications would delay progress of construction is unacceptable.
- C.Each Contractor shall submit a list of proposed substitutions, that is, any product for which the manufacturer was not specified by name in the specification, to the Architect's Office, provided such requests are submitted in accordance with these Contract Documents. Contractor will not be allowed to submit a substitution with his bid on any item that was not included on this proposed substitution list.
- D.In the event that a substitution proposed by the Contractor accepted by the Owner, the Contractor furnishing the substitution shall be entirely responsible for the substitute item properly fitting in place.
- E. The installation of any substitution proposed by the Contractor and accepted by the Owner shall be entirely the Contractor's responsibility. 1. If substitute results in more work or cost to any other trade, the Contractor responsible for the substitution will notify those trades and pay any additional cost for all trades affected by the substitutions.
- 2. The Contractor shall be responsible for the costs of any and all Architectural and Engineering revisions to the drawings and specifications as required to satisfy alterations made necessary by the substitution.

F. Mechanical and electrical designs are based on the requirements for the

manufacturers specified or listed on the equipment schedu disconnects, breakers, fuses and wire sizes are selected scheduled equipment. Increased current requirements neces wire, breakers, switches, etc., to accommodate any alternate manufacturer's equipment other than as specified or as drawings shall be provided with out any increase in Contract Contractor furnishing the alternate or substitute equipment.

- G.Each request for a substitution shall include complete data substantiating compliance of the proposed substitution with the contract documents.
- H.For products: 1. Product identification, including manufacturer's name and address. 2. Manufacturer's literature:
- a. Product description. b. Performance and test data.
- c. Reference standards.
- 3. Samples if requested by the Owner's Representative. 4. Name and address of similar projects on which product was used and date of installation.
- I. For construction methods:
- 1. Detailed description of proposed method.
- Drawings illustrating the methods.

specified.

- K. Data relating to changes in the construction schedule.
- L. Identify: 1. Other contracts affected.
- 2. Changes or coordination required.
- M.Accurate cost data on proposed substitution in comparison with product or method specified.
- N.In making the request for substitution, the Bidder/Contractor represents
- that. 1. He has personally investigated proposed product or method and determined that it is equal or superior in all respects to that specified.
- 2. He will provide the same or better guarantee for the substitution as for the product or method specified.
- 3. He will coordinate installation of accepted substitutions into the work, making all changes required for the work to be completed in all respects.
- 4. Cost data is complete and includes all related costs under his contract, but excludes:
- a. Costs under separate contracts.
- b. Architect's and Engineer's redesign. c. Administrative cost of Architect and Engineer.
- 5. He will pay all additional costs and expenses incurred by the Owner, Architect, Engineer and other Contractors.
- O.Substitutions will not be considered when:
- 1. They are indicated or implied on shop drawings or product data submittals without formal request submitted prior to the bid date as outlined hereinbefore.
- 2. Acceptance will require revisions of the contract documents unless the Contractor pays the additional costs as noted in Paragraph 1.05.N. above.
- 1.06 PROJECT COORDINATION
- A. The Contractor will be responsible for the coordination of all work on this Project.
- B. Contractor shall coordinate all mechanical work with other trades. Contractor shall coordinate with Owner's Representative and other trades to develop the overall Project Construction Schedule. A copy of the Project Construction Schedule shall be submitted to Engineer and Owner's Representative for review and acceptance.
- C.Contractor shall keep the Engineer informed as to progress of Work as pertaining to the Construction Schedule. If the Work falls behind the Project Construction Schedule, the Contractor shall develop a plan to get the Work back on schedule and submit to Engineer and Owner's Representative for review and acceptance.
- D.Contractor shall coordinate with the Owner's Representative for allowable days of week and times of days for building system shut downs as required for the Demolition Work and/or Construction Work.

1.07 PROJECT CLOSEOUT

- A.General: 1. Furnish all required documents, forms, reports, manuals, drawings, etc. as required to satisfy the closeout procedure of the Project.
- B. Project Record Drawings: 1. Submit to Engineer all Project Record Drawings to include: a. Record Drawings as per Paragraph 1.02 of this Specification Section.
- b. Addendums. c. Change Orders and other Modifications to the Contract.
- C.Operation and Maintenance Manuals: 1. Submit two (2) sets prior to final inspection, bound in 8-1/2" x 11" inch
- text pages, three ring binders with durable and rigid covers.
- 2. Prepare binder covers with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", and title of the Project.
- 3. Subdivide the binder contents with page dividers, organized as described below; with tab titling clearly printed under plastic tabs.
- 4. Contents: Prepare a Table of Contents for each volume, with each Product or system description identified, typed on white paper.
- 5. Part 1: Directory, listing names, addresses, and telephone numbers of Engineer, Contractor, Subcontractors, and major equipment suppliers.
- 6. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specifications section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers.
- 7. Part 3: Project documents and certificates, including the following: a. Shop Drawings and Product Data. b. Test and Balance Reports.
- c. Photocopies of warranties.
- 8. Submit one copy of completed volumes in final form seven (7) days prior to final inspection. This copy will be returned after final inspection, with Engineer comments. Revise content of documents as required prior to final submittal.
- 9. Submit final volumes revised, within 15 days after final inspection. D. Spare Parts and Specialized Tools:
- 1. Provide spare parts and specialized tools. extra materials. etc. in quantities specified in other individual Sections of this Specifications. Obtain receipts from Owner's Representative.
- E. Warranties:
- 1. Provide duplicate notarized copies. 2. Execute and assemble documents from Subcontractors, suppliers, and manufacturers.
- 3. For items of Work delayed beyond date of Substantial Completion, provide updated documents within 15 days of acceptance, listing date of

acceptance as start of warranty period. **1.08 GENERAL WORK CONDITIONS**

- A.Contractor during the process of the work shall keep the premises reasonably free of all debris and waste materials resulting from the work under this section. All such debris and rubbish shall be removed from the site
- B. All work performed will be governed by the General Conditions Supplementary General Conditions and the Contract Drawings.
- C. The Engineer shall not have control over or charge of and shall not be responsible for construction means, methods, techniques, sequences or procedures or for safety precautions and programs in connection with the Work, since these are solely the Contractor's responsibility under the Contract for Construction.
- D. The Engineer is not empowered to authorize or issue any field orders or to verbally give directions to any contractor which shall affect time of completion of the base amount of the contract between the Owner and the Contractor.
- 1.09 CHASES AND RECESSES
- A.All chases, recesses and major masonry openings as shown on the Drawings will be provided by the Architectural Trades.
- 1.10 LUBRICATION

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J. Itemized comparison of proposed substitution with product or method

A.Prior to testing, all equipment shall be properly lubricated in accordance with the manufacturer's instructions. One set of tools necessary for lubrication shall be delivered to Owner. After proper lubricating, all units shall be started and successfully operated by the Contractor in the presence of the Architect and/or Engineer.

B.Except for small electrical motors which under NEMA Standards are equipped with lifetime lubrication, all bearings on large motors and mechanical equipment shall be equipped with lubricator fittings extended to the exterior of the housing.

1.11 POWER WIRING

A.Motors up to and including 1/3 H.P. shall be 120 volt, 60 hertz, single phase and motors 1/2 H.P. and larger shall be built for 208/460 volts, 60 hertz, three phase; unless otherwise indicated per drawing schedules, plans and details.

C. The Electrical Contractor shall provide combination magnetic starters with H.O.A. switch for each item of three phase equipment and unfused disconnects for each item of single phase equipment, except where starters are furnished as a part of wired equipment.

D. The Electrical Contractor shall do all power wiring including connections to the motors furnished by the Contractors of this Division.

E. Refer to AUTOMATIC TEMPERATURE CONTROLS Section for the wiring to be performed by the Temperature Control Contractor and the Electrical Contractor as they relate to temperature controls.

F. Verify with Electrical Contractor, General Contractor, and Owner's Representative the exact electrical characteristics of the project site prior to ordering equipment and report any discrepancies.

1.12 GUARANTEE

- A.Contractor's Guarantees: Each Contractor to furnish a written guarantee that all requirements of the Drawings and Specifications, including equipment capacities, have been complied with. Guarantee period shall be for a period of one (1) year from date of acceptance of work, unless a longer guarantee period is applicable from manufacturer. All warranties shall accrue to the benefit of the Owner.
- B. Manufacturer's Warranties: Furnish to the Owner standard manufacturer's warranties on all major items of equipment.
- C.Repair or replacement: Contractor shall promptly remedy any defect in the work appearing within the guarantee and warranty period. Repair or replace work as required without cost to the owner, including cost of damage to or replacement of adjacent construction and finishes.
- D.In addition to guarantee provisions of the General Conditions, all refrigerant compressors shall have an extended warranty of four (4) years beyond the first year for replacement of parts and labor to repair.
- E.In addition to guarantee provisions of the General Conditions, all heat exchangers shall have an extended warranty of nine (9) years beyond the first year for replacement of parts and labor to repair.

1.13 VALVE TAGS

A.Each valve on every pipeline shall be provided with a numbered brass tag which shall be fastened to the valve or line with non-rusting wire. When all Work is complete, deliver to the Architect/Engineer a framed (under glass) chart which shall indicate the service and location of each valve. Valves used for local shut-off may be omitted from this list.

1.14 EQUIPMENT IDENTIFICATION

A.All mechanical equipment shall be clearly identified with 2" high stenciled letters, painted on the equipment (i.e. "AHU-1"). This includes exterior equipment where the paint shall be weather resistant.

PART 2 - PRODUCTS

2.01 ACCESS DOORS

- A.Provide 24" x 24" access doors manufactured as an integral unit complete with all parts and ready for installation as manufactured by one of the following: 1. Birmingham Ornamental.
- 2. Karp. 3. Milord, Division of Inryco.
- B. Provide flush panel doors, except provide recessed panel doors where access doors occur in plaster or acoustical tile glued to gypsum lath.
- C.Provide UL "B" labeled units where access doors occur in hour rated-construction.
- D.Provide screw driver operated cam locks of number required by size of door
- E. Provide anchorage appropriate to construction.

PART 3 - EXECUTION

3.01 CODES AND STANDARDS

A.Piping and appurtenances installed under this division of the Specifications shall comply with the requirements of the following, where applicable:

ANSI Codes for Pressure Piping
ANSI Standards for Pipe and Fittings
ASME Code for Unfired Pressure Vessels
ASME Code for Power Boilers

ASME Code for Power Boilers Factory Insurance Association American Water Works Association

B. In addition, the Work shall conform to all applicable Federal, State and local codes and ordinances.

3.02 WORK CLEANLINESS

A.Contractor shall keep stored materials, storage areas, and installed systems free of dirt and debris.

- B. All exposed ends of incomplete or uncovered work shall be temporarily plugged as each phase of piping work and ductwork is completed.
- C.Piping, Ductwork and Equipment to be painted (exposed to view in completed structure) shall be cleaned by removing rust, plaster, and dirt by wire brushing. Grease, oil and similar materials shall be removed by wiping with clean rags and suitable solvents.
- D.Motors, Pumps, Fans and other items with Factory Finish shall be removed of grease and oil and leave with all surfaces cleaned and polished.
- 3.03 CUTTING AND PATCHING
- A. All cutting, repairing, fitting and refinishing of in place construction required for the installation of the Work of a Section shall be done at the expense of the Contractor of the Section, except as specifically shown on the Drawings or hereinafter specified.
- B. Work shall be performed by craftsmen skilled in their respective trades.
- 3.04 EXCAVATING
- A. The Contractor of each Section shall do all excavating and backfilling as required for the installation of his Work.
- B. The Work shall be performed in accordance with Existing Conditions Division Specification Section and as hereinafter specified.
- C.Excess earth from the excavations shall be deposited on the site where directed.
- D. All excavations shall be backfilled as follows: 1. Within the building walls and under all paved areas: Bank run granular fill compacted to 95% modified Proctor.
- 2. Under concrete areas and paved areas, fill as within the buildings. 3. In grassy areas, fill with bank run granular fill to a depth of 12 inches over the highest part of the piping and finish with acceptable excavated material.

3.05MODIFICATIONS AND INTERFERENCES

- A. Contractor shall carefully check and become familiar with the Architectural, Structural, Electrical and all Mechanical Drawings and Details, and make note of all locations where walls, partitions, ceilings, structural members, etc., are called for to be furred or closed-in.
- B. Modifications to the arrangement of the mechanical system may be required to suit structural conditions, or to avoid interference with the Work of other trades. Contractor shall furnish all offsets, additional fittings, etc., as required to meet installation conditions whether detailed on the Drawings or not.
- C. Any questionable information in the Specifications or on the Drawings shall be called to the attention of the Architect and/or Engineer for clarification before proceeding with fabrication or erection of the parts affected. If, in the opinion of the Contractor, any additional detail drawings are necessary, he shall prepare them at his own expense, together with all bills of material.

3.06 OPERATING INSTRUCTIONS

- A. The Contractor for the Section shall, when directed by the Architect/Engineer, provide the Owner with a competent tradesman to instruct the Owner's personnel in the proper operation and maintenance of the equipment he has installed.
- B. Provide three (3) copies of operating instructions, for equipment manuals, and control diagrams per GENERAL REQUIREMENTS Specification Sections for contract close-out.
- C. Control diagrams and written instructions shall be framed under glass.

END SECTION

SECTION 15250 MECHANICAL INSULATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specification sections, apply to work of this section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.

PART 2 - PRODUCTS

2.01 INSULATION - HOT PIPING

- A. Insulation for domestic water piping systems shall be 1" thick glass fiber.
- B. Glass fiber insulation shall be UL rated, noncombustible, sectional pipe insulation of heavy density glass fiber with All Service jacket having a composite rating not to exceed 25 flame spread and 50 smoke developed. Insulation shall be as supplied by CertainTeed, Owens/Corning, or Knauf.
- C. Jacket laps and butt strips shall be self-sealing type.
- D. Provide half round galvanized 18 gauge sheet metal hanger shields. Shields shall be 12" long for pipe sizes up to 3", 18" for pipe sizes over 3" and up to 6", and 24" long for pipe sizes over 6". 2.02 INSULATION - COLD PIPING
- A. Insulation for domestic water piping systems shall be 1" thick glass fiber.
- B. Insulation for drainage piping systems (downspouts, roof drains, cooling coil condensate) shall be 1" thick glass fiber.
- C. Glass fiber insulation shall be UL rated, noncombustible, sectional pipe insulation of heavy density glass fiber with All Service jacket having a composite rating not to exceed 25 flame spread and 50 smoke developed. Insulation shall be as supplied by CertainTeed, Owens/Corning, or Knauf.
- D. Jacket laps and butt strips shall be self-sealing type. E. Provide half round galvanized 18 gauge sheet metal hanger shields.
- Shields shall be 12" long for pipe sizes up to 3", 18" for pipe sizes over 3" and up to 6", and 24" long for pipe sizes over 6".
- 2.03 REFRIGERANT SUCTION PIPING

reinforced Kraft facing.

2.05 INSULATION - DUCTWORK

PART 3 - EXECUTION

1. Hot piping.

2. Cold piping.

3.01 INSULATED PIPING SYSTEMS

handicapped accessibility.

3.02 PIPE HANGER SHIELDS

insulation

blocking at each hanger.

Knauf.

A. Insulation shall be 1" thickness for pipe sizes up to 1-1/2" and 1-1/2" thick for pipe sizes over 1-1/2".

label attached, giving name of manufacturer and brand.

label attached, giving name of manufacturer and brand.

C. Refer to AIR DISTRIBUTION Section for lined ducts.

A. Provide insulation on piping systems as follows:

3. Refrigerant suction piping, as per cold piping.

5. Condensate drain piping, as per cold piping.

density pipe insulation and a hanger shield.

3.03 INSTALLATION, GENERAL - HOT PIPING

flush with adjacent pipe covering.

A. Each Contractor installing hot or cold piping shall set the piping up on wood

been corrected, must be reinstalled without expense to the Owner.

shall be flexible foamed elastometric plastic.

2.04 INSULATION - AIR SYSTEM COMPONENTS

Owens/Corning, CertainTeed or Knauf.

- B. Interior piping insulation shall be glass fiber and exterior piping insulation
- A. Insulation shall be 2" thickness of semi-rigid board, 3 PCF density, foil
- B. Board shall be UL rated, noncombustible glass fiber, 25 flame spread, 50 smoke developed, as manufactured by CertainTeed, Owens/Corning and
- C. Every package or standard container of covering, adhesive and coating delivered at the building for use must have the manufacturer's stamp or
- A. Insulation shall be 2" thickness of flexible insulation, 1 PCF density, foil reinforced Kraft facing, having a composite rating not to exceed 25 flame spread and 50 smoke developed. Insulation shall be as supplied by
- B. Every package or standard container of covering, adhesive and coating delivered at the building for use must have the manufacturer's stamp or
- 4. Roof head bodies, horizontal and vertical downspout piping, as per cold
- 6. Sanitary drainage lines receiving cold condensate, as per cold piping. 7. Hot water supply and waste lines at plumbing fixtures intended for
- B. The wood blocking thickness shall be the same as that of the pipe
- C. This Contractor shall replace the wood blocking with a full section of heavy
- A. All surfaces must be clean and dry and pipe lines tested before applying pipe insulation. If covering is applied at the pipe coverer's option prior to testing, and defects in covered work appear at or before the time of inspection and tests, the covering must be removed, and after defects have
- B. Covering shall be dry when installed and before and during the application of any finish. Surfaces of covering shall be smooth, even and substantially
- C. Manufacturer's application instructions for all materials shall be followed.

- D. Insulation shall not be applied over pipe plugs, blind nipples, nameplates, inspection stamps, or identification tags.
- E. Insulator must exercise extreme caution in the storage of flammable adhesives and during their application.
- 3.04 INSULATION OF PIPING HOT PIPING
- A. Butt joints firmly together. Overlap seam shall be downward on side of pipe, sealed tight and smooth. Staple overlap on 6" spacing.
- B. Install butt strips with 2" overlap downward staple end of overlap.
- C. Insulation shall be fastened with 9/16" flare type staples.
- 3.05 INSULATION OF FITTINGS, VALVES, ETC. HOT PIPING
- A. Fittings and valves 3" and less shall be insulated by wrapping with pre-cut fiber glass blanket insulation and securing with jute twine. A preformed, molded PVC jacket cover shall be installed over the blanket insulation. The jacket shall be fastened with stainless steel tacks and butt strips overlapping onto the adjoining pipe insulation.
- B. Fittings 4" IPS and larger shall be insulated with nested and/or mitered sectional pipe covering of the same material and thickness as the adjacent pipe insulation. Insulation shall then receive one coat of finishing cement with glass fiber reinforcing cloth applied to form a smooth finish in accordance with manufacturer's recommendations.
- C. Valves 4" IPS and larger shall have bodies up to the bonnets insulated with nested and/or mitered sectional pipe covering of the same material and thickness as the adjacent pipe insulation. Insulation shall receive one coat of finishing cement with glass fiber reinforcing cloth applied to form a smooth finish in accordance with manufacturer's recommendations. Packing nuts of valves shall not be insulated.
- D. Flanges shall be insulated with nested pipe insulation. The flange insulation shall extend not less than 2" over the adjacent pipe insulation on each side of the flange. Insulation on pipes shall be stopped short of flanges to permit removal of flange bolts. The flange insulation shall be applied in such a manner that it may be removed without damage to the adjacent pipe insulation.
- E. Strainers 1-1/2" and larger shall be insulated with nested pipe insulation and filling voids with cement as described above for 4" and larger fittings and valves. Clean-out plugs shall be left accessible so that insulation will not be damaged by their removal. Strainers smaller than 1-1/2" shall not be insulated.
- F. Wherever nesting size sectional covering is used, it shall be cut to fit in a neat workmanlike manner with all joints butted and held securely in place.
- G. Unions shall not be insulated.
- H. Fittings, valves, strainers, unfinished ends of sectional insulation, and color damaged jackets shall be sealed and painted with Childers No. CP-32 (white) at the rate of 85-100 sq. ft. per gallon.
- 3.06 INSTALLATION, GENERAL COLD PIPING
- A. All surfaces must be clean and dry and pipe lines tested before applying pipe insulation. If covering is applied at the pipe coverer's option prior to testing, and defects in covered work appear at or before the time of inspection and tests, the covering must be removed, and after defects have been corrected, must be reinstalled without expense to the Owner.
- B. Covering shall be dry when installed and before and during the application of any finish. Surfaces of covering shall be smooth, even and substantially flush with adjacent pipe covering.
- C. Manufacturer's application instructions for all materials shall be followed.
- D. Insulation shall not be applied over pipe plugs, blind nipples, nameplates, inspection stamps, or identification tags.
- E. Insulator must exercise extreme caution in the storage of flammable adhesives and during their application.
- 3.07 INSULATION OF PIPING COLD PIPING A. Butt joints firmly together. Overlap seam shall be downward on side of pipe, sealed tight and smooth.
- Staple overlap on 6" spacing. B. Install butt strips with 2" overlap downward staple end of overlap.
- C. Insulation shall be fastened with 9/16" flare type staples
- D. Seal over staples with vapor-barrier mastic, Childers No. CP-32 (white).
- 3.08 INSULATION OF FITTINGS, VALVES, ETC. COLD PIPING
- A. Valves and fittings 3" and less shall be insulated by wrapping with pre-cut fiber glass blanket insulation and securing with jute twine. A preformed, molded PVC jacket cover shall be installed over the blanket
- E. insulation. The jacket shall be fastened with stainless steel tacks and butt strips overlapping onto the adjoining pipe insulation. A vapor-barrier mastic, Childers No. CP-32 (white), shall be used to seal the jacket throat and jacket to the pipe insulation prior to tack and butt strip installation.
- F. Fittings 4" IPS and larger shall be insulated with nested and/or mitered sectional pipe covering of the same material and thickness as the adjacent pipe insulation.
- G. Valves 4" and larger shall have bodies up to the bonnets insulated with nesting pipe insulation of appropriate size and of the same material and thickness as the adjacent pipe insulation.
- H. Flanges shall be insulated with nesting pipe insulation. The flange insulation shall extend not less than 2" over the adjacent pipe insulation on each side of the flange. Insulation on pipes is to be stopped short of flanges to permit removal of flange bolts. The flange insulation shall be applied in such a manner that it may be removed without damage to the adjacent pipe insulation.
- I. Unions shall be covered with nesting pipe insulation as specified for flanges
- J. Strainers shall be insulated as described above for small valves and fittings. Clean-out plugs shall be left accessible so that the insulation is not damaged by their removal.
- K. Wherever nesting size sectional covering is used, it shall be cut to fit in a neat workmanlike manner with all joints butted and held securely in place with jute or glass fiber twine. Joints shall be pointed up with insulating cement prior to receiving surface finish.
- L. Fittings, valves, strainers, where vapor-barrier jacket or cloth tape has been fitted for nested/mitered applications, and color damaged jackets shall be sealed and painted with Childers No. CP-32 (white) at the rate of 85-100 sq. ft. per gallon.
- 3.09 INSTALLATION REFRIGERANT PIPING
- A. Insulation shall be installed in accordance with manufacturer's instructions for 40 **L**F piping.
- B. Provide two (2) coats of weather resistant paint for exterior installations in accordance with manufacturer's recommendations.
- 3.10 INSULATED DUCT SYSTEMS
- A. Provide insulation on the supply and return ductwork systems, except where ductwork is indicated to be lined.
- B. Provide insulation on the outside air ductwork of all systems from the plenum or hood intake to the HVAC unit, except where ductwork is indicated to be lined.
- C. Provide insulation on the exhaust air ductwork of all systems from the system exhaust air control damper to the exhaust air plenum or hood discharge, except where ductwork is indicated to be lined.
- D. Provide insulation on the outside air intake and exhaust air discharge air plenums.
- 3.11 INSTALLATION, GENERAL DUCTS
- A. No insulation shall be applied until the ductwork has been tested and proven tight.

- B. All ductwork shall be cleaned of oil, grease, loose dirt, and other foreign matter before the insulation is applied.
- C. Exposed ends of insulation shall be beveled to the insulated surface, and the jacket and/or vapor barrier shall be sealed to the surface. D. Cutouts in the insulation for nameplates and equipment tags shall have all
- edges tapered to the surface, and the jacket and/or vapor barrier sealed.
- E. Special care must be taken in applying insulation around such accessories as reheat coils, flexible connections, access doors, etc., to allow removal of these items without in any way removing the insulation or breaking the vapor seal.
- 3.12 INSTALLATION DUCTS
- A. Insulation wrap shall be applied to the duct with 6" wide bands of adhesive on 12" centers. The adhesive shall have a flame spread index of 25 or less. Welding type fasteners shall be applied to the bottom of ducts over 18" in width. The fasteners shall be a maximum of 12" on centers and placed close to butt ends of the insulation. The pins shall be cut off flush with the fastener washer.
- B. All joints, cracks and breaks, including holes for the fasteners, in the vapor barrier shall be sealed with a vapor barrier mastic. Childers No. CP-32 (gray) and vapor barrier jacket material. Breaks in the vapor barrier caused by the attachment of tubing or other equipment shall also be sealed. Vapor barrier laps shall be sealed with adhesive, Childers NO. CP-82. No staples shall be used to secure the vapor barrier laps.
- C. Where pins are used, apply vapor seal patches using adhesive over the pins.
- 3.13 INSULATION AIR SYSTEM COMPONENTS
- A. Provide insulation on the exterior surfaces of supply system components conveying mechanically cooled air except where such components are indicated to be lined.
- B. Insulated components shall include filter section, supply fan, return fan, discharge cone, coil section and attenuator section.
- 3.14 INSTALLATION AIR SYSTEM COMPONENTS
- A. Boards shall be applied using mechanical fasteners. Fasteners shall be located not less than 3" from each edge or corner of the board. Pin spacing along the panels no greater than 12" on centers.
- B. Apply round vapor seal FSK patches using adhesive over the pins.
- C. All insulation edges and butt joints are to be sealed with joint sealing tape, Type FSK, 5" wide, using adhesive, Childers No. CP-82.
- D. Finish pins with plastic caps. 3.15 INSTALLATION - EXTERIOR DUCTWORK
- A. Provide a moisture seal vapor barrier coating of fire resistant mastic over the entire outdoors exposed ductwork system. Coating shall be minimum 1/8" thickness and manufactured by Childers, Foster, or equal.
- B. Submit products specification submittals to include samples for Engineer's review.
- C. END SECTION

SECTION 15486 NATURAL GAS PIPING SYSTEMS

- PART 1 GENERAL
- 1.01 RELATED DOCUMENTS
- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specification sections, apply to work of this section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.

A. Provide 1/4" scale shop drawings for all piping systems.

2.01 PROVIDE GAS PIPING SYSTEM PRODUCTS

E. Gas service meter and apparatus support.

A. Current NFPA-54-National Fuel Gas Code.

D. All current local, State and Federal applicable.

A. The gas utility will provide a gas service and meter.

B. Underwriters' Laboratories, Inc.

C. American Gas Association.

3.02 NATURAL GAS SERVICE

3.03 NATURAL GAS DISTRIBUTION

appliances, per drawings.

with a screened vent cap.

other installation requirements.

END SECTION

3.04 NATURAL GAS PIPING INSTALLATION

B. Pipe, fittings and piping specialties.

1.02 DESCRIPTION

1.03 SHOP DRAWINGS

PART 2 - PRODUCTS

A. Gas cocks and unions.

C. Protective coatings

D. Pressure regulators.

PART 3 - EXECUTION

3.01 CODE COMPLIANCE

A. This section provides for the installation of natural gas piping systems.

B. Provide a concrete pad and steel pipe stands/platforms for meter, per drawings.

A. Provide a gas distribution system from the meter to the gas-fired equipment and

A. Install concealed gas piping in an air-tight conduit constructed of Schedule 40, seamless black steel with welded joints. Vent conduit to the outside and terminate

B. Extend vents from pressure regulators to the outside with screened vent cap. C. Refer to BASIC MATERIALS AND METHODS SECTION for cleaning, testing and



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RIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS. NO DATE DESCRIPTION

04.25.25 | ISSUE FOR PERMIT

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MECHANICAL SPECIFICATIONS

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SECTION 15830 **TERMINAL UNITS**

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specification sections, apply to work of this section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.

1.02 SYSTEMS

- A. Provide terminal units for system per Drawings: Unit Heaters
- 2. Cabinet Heaters

PART 2 - PRODUCTS

- 2.01 UNIT HEATERS
- A. Unit heaters shall be gas-fired type of size and capacity scheduled on the Drawings. B. Heaters shall be equipped with accessories as scheduled.

2.02 CABINET HEATERS

- A. Cabinet heaters shall be of type, size and capacity scheduled on the Drawings.
- B. Units shall be equipped with accessories as scheduled
- C. Unit baked enamel finish color as selected by Architect

PART 3 - EXECUTION

3.01 UNIT HEATERS

A. Provide piping controls and accessories for heaters per drawing plans, details and legends.

3.02 CABINET HEATERS

A. Provide controls and accessories for heaters per drawing plans, details and legends.

3.03 ELECTRICAL WIRING

- A. Provide electrical devices furnished loose by manufacturer and copy of manufacturer's wiring diagram submittal to Electrical Contractor for installation.
- B. Verify that electrical wiring installation is in accordance with manufacturer's submittal and installation requirements of Division-16 sections.

3.04 ADJUSTMENT AND CLEANING:

- A. Clean unit exposed surfaces, vacuum clean terminal coils and inside of cabinets.
- B. Retouch any marred or scratched surfaces of factory-finished cabinets, using finish materials furnished by manufacturer.
- C. Install new filter units for terminals requiring same.
- D. Provide start-up of equipment for testing any balancing work.

END SECTION

SECTION 15880

AIR DISTRIBUTION

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specifications sections, apply to work of this section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.
- 1.02 AIR SYSTEMS

A. Provide heating and cooling system.

- B. Provide ventilating system
- C. Provide exhaust systems.
- 1.03 SHOP DRAWINGS

A. Provide 1/4" scale shop drawings for all duct systems.

PART 2 - PRODUCTS

- 2.01 SYSTEMS SUPPLY AND/OR RETURN AIR FANS
- A. Provide each system fan and accessories per drawing schedule, plans, and details.
- 2.02 KITCHEN EXHAUST HOOD SYSTEMS
- A. Provide each system exhaust hood and accessories per drawing schedule, plans, and details.
- B. Provide control systems to include electrical and gas valves safety systems.
- C. Provide fire suppression system to include testing and certification.

2.03 VENTILATION MAKE-UP AIR UNITS

Provide package ventilating unit and accessories per drawing schedule, plan, and details.

2.04 AIR FILTERS

- A. Provide each system central air filters and accessories per drawing schedules, plans and details.
- B. Provide two (2) sets of filters for each system.

2.05 PLENUM LINING

- A. Provide systems plenums with fiberglass lining where shown on the drawing plans and elevations.
- B. Liner shall be 2" thick, 3 pcf or 6 pcf density as indicated, semi rigid board bonded with thermosetting resin and coated one side with fire resistant coating.
- C. Liner shall be supplied by Owens-Corning, CertainTeed or Knauf.
- 2.06 EXHAUST FANS
- A. Provide roof mounted fans with accessories per drawing schedule, plans and details
- Provide ceiling mounted fans with accessories per drawing schedule, plans and

2.07 AIR VOLUME REGULATORS

- A. Provide air volume regulators per drawing schedule, plans and details.
- 2.86 GRILLES AND DIFFUSERS
- A. Provide grilles and diffusers per drawing schedule, plans and details.
- 2.09 FLUES
- A. Provide flues and accessories for gas fired equipment requiring venting.
- B. Flues shall be of the Class, Model and with the accessories as described in Legends on Drawings relating to the above Sections.
- 2.10 CURBS
- A. Provide curbs for all roof openings.
- B. Certain items of equipment shall have curbs furnished by the equipment manufacturer.

- C.All other openings shall have insulated, prefabricated curbs steel construction, Pate or Thy-curb.
- D.Curbs shall be sized to fit equipment base.
- 2.11 FLEXIBLE DUCTWORK
- A. Provide flexible ductwork per drawing plans and details. B. Ductwork shall be flexible aluminum ducting factory tested to 12" W.C. without leakage. Flexmaster type "NITL" triple-lok flexible aluminum air
- 2.12 FLEXIBLE CONNECTIONS

duct or equal shall be used.

- A.Provide 1 lb. density loaded vinyl flexible connectors for all items of rotating fan equipment.
- 2.13 PREFABRICATED DUCTWORK
- A.Provide prefabricated round and oval ductwork with spiral or longitudinal seams.

Duct Construction for 2" W.C.

Duct Diameter (Inches) Seam Gauge	Spiral Seam	i Gauge	Longi	tudinal
	Galv. Steel Alum.	Alum.	Galv.	Steel
Up to 14"	26	.025"	24	.032"
15" to 26"	24	.032"	22	.040"
28" to 36"	22	.040"	20	.050"
38" to 50"	20	.050"	18	.063"
52" to 60"	18	.063"	16	.071"

B. Sleeves, collars, fittings, etc. shall be off a wall thickness not less than that specified for longitudinal seam straight duct unless certified testing data indicates suitability and is submitted to Engineer for review.

2.14 DIFFUSER PLENUMS

- A.Provide diffuser plenums as shown on drawing plans and details.
- 2.15 DUCT LINING
- A. Provide ductwork with fiberglass lining where indicated on the drawings the symbols or notes.
- B. Lining shall be 1-1/2" inch thick, 3.0 pcf density, flexible, with fire resistant coating to bond the air side surface of the fibers or as required by local codes
- C.Fire hazard classification ASTM E-84-70 test method, 25 flame spread, 50 smoke developed.
- D.Lining shall be supplied by Owens-Corning, CertainTeed or Knauf.
- 2.16 VIBRATION ISOLATION
- A.Provide vibration isolation for all fan equipment per drawing plans and details

PART 3 - EXECUTION

- 3.01 SYSTEMS SUPPLY AIR FANS
- A.Fans shall be installed on a welded steel frame mounted on and fastened down to the floor with vibrator isolators between the frame and the fan base

3.02 FILTERS

- A.Install filter housings in system plenums and provide transitions or baffles to prevent air by-pass.
- B. Install filters before any system is put in operation.
- 3.03 PLENUM LINING
- A. Adhere liner with a full coat of adhesive and mechanical fasteners. B. Exposed edges shall be finished with trowel applied mastic to prevent any
- possibility of erosion. Mastic to have same fire hazard classification as

3.04 EXHAUST FANS

Provide vibration isolators.

3.06 AIR VOLUME REGULATORS

3.07 GRILLES AND DIFFUSERS

3.08 ACCESS DOORS

3.09 FLUES

3.10 CURBS

connections.

3.11 DIFFUSER PLENUMS

3.12 FLEXIBLE DUCTWORK

3.05 GRAVITY DAMPERS

A.Fasten roof mounted fans to curbs six (6) inches on centers using hex head screws and washers.

hinges and be responsible for operation in use.

contractor for proper operation after installation.

A.Install accessory dampers in the full open position.

B. Coordinate installation with the General Contractor.

B. Do not order flues until drawings are approved.

to roof construction and roof flashing.

will be removed and replaced.

A. Coordinate installation of curbs with the General Contractor.

responsibility of this contractor to protect that finish.

connections to the equipment, flue supports, roof penetration and flue cap.

B. Install steel plates and accessories as required for ductwork or equipment

full open before air balancing is performed.

s	of	galvanized	

Longitudinal Galv. Steel .032" .040" .050" 18 .063"

B. Suspend ceiling mounted fans from the underside of the structural framing.

A. Where gravity dampers are installed this contractor shall lubricate the

A.Controls will be factory mounted and shall become the responsibility of this

B. It shall be the responsibility of this contractor to assure that all dampers are

A.Install access doors in the building construction where shown on the drawing plans and where required to access concealed equipment.

A.Submit drawings from the manufacturer of the flue system including

C.General Contractor will provide shimming level of curbs, fastening of curbs

A.Plenums will be received with factory applied finish. It shall be the

B. If in the opinion of the Architect's site inspector the finish is not acceptable when ready to be turned over to the Owner, the damaged plenum sections A. Apply mastic duct sealant to rigid duct and device to which connection is being made before installing flexible duct.

B. Fasten flexible ductwork with #8 screws minimum 6" on center. Drawband type compression fasteners shall not be used.

C.Coat screws with mastic sealer after tightening.

D. Apply two layers of Nashau #357 duct tape over screws and juncture of ductwork

3.13 FLEXIBLE CONNECTIONS

A. Apply mastic duct sealant to rigid duct and device to which connection is being made before installing flexible connector.

B. Fasten flexible connector to rigid ductwork with #8 screws minimum 6" on center

C.Coat screws and juncture with mastic sealer after tightening.

3.14 PREFABRICATED DUCTWORK

A. Where connections in oval and round ducts are not made up with flanges, a male end coupling shall be used. "United" duct sealer, or approved equal, shall be applied to the male end before insertion or immediately after it is started, approximately 1/2 inch. Push fitting or pipe to coupling bead stop. Drill and install solid pop rivets, as required, a minimum of 1/2 inch from the coupling bead stop. After other end of coupling is inserted, sealed and riveted as above, apply duct sealer in a minimum of 2" wide band, making sure rivet heads and the joint gap are covered. Apply a single wrap of Nashua No. 357, or approved equal, duct tape over the wet sealer. Do not apply sealer over the tape. Samples of the duct sealer and tape, including specification sheets, shall be submitted to the Engineer for approval.

B. Where ductwork is exposed in occupied areas, it shall be installed neat and clean. Fragmented ends, i.e., field cuts will not be accepted. All such ductwork shall be field measured and factory cut to length. Sealant will be applied only to the interior surfaces of connecting pieces. Any sealant exposed shall be removed with the proper solvent.

3.15 SHOP FABRICATED DUCTWORK

A.Ductwork shall be installed and sealed only in accordance with the note on the drawings. Any other procedure whether recommended by the manufacturer or not is unacceptable.

B. Sealant shall be applied to joints and seams during fabrication. Not at the site installation.

C. Where ductwork is exposed in occupied areas, it shall be installed neat and clean. Fragmented ends, i.e. field cuts will not be accepted. All such ductwork shall be field measured and shop cut to length. Sealant will be applied only to the interior surfaces of connecting pieces. Any sealant exposed shall be removed with the proper solvent.

3.16 DUCT LINING

A.Lining shall be installed in accordance with manufacturer's instructions for 2000 fpm.

B. A full coat of adhesive shall be used whether recommended or not. Edges shall be finished with trowel applied mastic.

3.17 DUCTWORK

A. Provide ductwork systems per drawing plans and details

B. The following duct systems shall be constructed for 2" w.c.

- All supply air ductwork galvanized steel. 2. All return air ductwork - galvanized steel.
- 3. All exhaust ductwork galvanized steel.
- 4. All moisture laden air ductwork aluminum or stainless steel
- 5. All corrosive laden air ductwork aluminum or stainless steel. 6. All grease laden air ductwork - black iron or stainless steel.

C.Duct construction for 2" w.c.

1. All ductwork shall be neat, accurate, mechanically tight and rigidly constructed. Offsets of exposed ductwork shall be made on side opposite to walls and ceilings, unless otherwise shown or specified. All uninsulated panels wider than 12 inches shall be cross-broken.

2. Ductwork shall be constructed of new galvanized steel sheets of lock-forming quality. Ends of all sheets which are not perfectly square shall be so trimmed in shop before layout is begun. Gauges shall be not less than those shown as follows:

Largest Dimension (Inches)	USS Gauge	Alum. Gauge
Up to 12	26	.027"
13 to 30	24	.035"
31 to 60	22	.043"
61 to 90	20	.052"

a. All casings and plenum chambers shall be constructed of 18-gauge material, with standing seams, and framed with 1-1/2" x 1-1/2" x 1/8" galvanized angles.

b. All ductwork exposed to outside weather shall be an 18 gauge regardless of dimensions.

3. Longitudinal seams of rectangular ductwork shall be either Pittsburgh lock, double or grooved. Only one type of seam shall be used in each run of duct. Longitudinal seams of round duct shall be grooved. Button punch snap lock seams are not acceptable

Transverse joints of rectangular duct shall be as follows: a. Less than 18 inches - Pocket, bar or S slip and drive slips.

b. 19 to 24 inches - 3/4 inch pocket or bar slip and drive slip.

5. Drive slips shall be used on short sides of transverse duct joints if side is less than 24 inches. Metal and gauge of S slips and drive slips shall be same as duct. Ends of drive slips shall be bent over at least 1/2 inch at corners. Bar slips shall be fastened with sheet metal screws on 12-inch centers. Corners of all bar slip joints shall be folded over and riveted. Pocket slips shall be riveted to duct on 6-inch centers, and corners shall be overlapped and riveted.

6. All fasteners, such as sheet metal screws, machine screws, or rivets shall be cadmium-plated for galvanized duct. 7. All ducts over 18 inches wide shall be provided with transverse stiffeners of either joint slips or bracing angles on centers of not over 4'-0" for ducts

up to 60" wide on the long side and not over 2'-0" for ducts with long side exceeding 60" width. 8. Fittings shall be constructed as detailed on the Drawings.

9. Where it is necessary because of structural reasons to change shapes of ducts, the Architect will be notified immediately for resizing or rerouting. Equivalent areas must be maintained.

10. Where radius elbows or takeoffs are indicated, the inside radius shall not be less than three-quarters of the width of the duct or takeoff. Where diverging changes are made in duct sizes in the direction of the air flow, they shall be at a slope of 1 in 4. 11. All transverse joints shall be sealed. Use liquid sealant on flat surface

and mastic sealer at the corners. 12. All ductwork shall be tested at 2 inches water column with 5%

allowable leakage. Test in sections and mark tested sections as specified for medium pressure ductwork. 13. Refer to drawing details for sealant application during fabrication and field installation.

14. Paint inside of all ductwork with flat black paint where visible through grille, diffuser, louver, etc.

D. Dishwasher exhaust ductwork shall be stainless steel with continuous liquid tight seams and joints.

E.Kitchen hoods exhaust ductwork shall be 16 gauge black iron with continuously welded liquid tight joints and seams with both sides of all welds painted with zinc chromate primer. Provide access panels in ductwork at each change in direction and every 20'-0" on horizontal runs. In horizontal sections the lower edge of the access panel shall be not less than 1-1/2" from bottom of duct. Access panel shall be of 16 gauge galvanized steel with 1/8" ceramic fiber insulation.

3.18 INSULATION

A. Provide ductwork and equipment insulation as per Section 15250.

B.Black iron kitchen exhaust hood ductwork insulation shall be Thermal Ceramic Firemaster XL Blanket ASTM-E-2336, (2) layers of 1-1/2" thick, 8.0 lb per cubic foot density ductwrap blanket with overlap joints and secured with stainless steel banding with a fire rating of two hours. Also provide a 0.016" aluminum jacket with moisture barrier lock seams for exterior applications.

3.19 TURNING VANES

A. Vanes shall be airfoil vane type

3.20 VOLUME DAMPERS

A. Where "VD" is indicated on the Drawings, install a volume damper of the opposed blade type, maximum 4" blade width with nylon bearings. Provide an external locking quadrant. Score the end of the shaft in the direction of air flow when wide open.

B. END SECTION

SECTION 15950 AUTOMATIC TEMPERATURE CONTROLS

PART 1 - GENERAL

1.01 RELATED Documents

- A.Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specification sections, apply to work of this section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.

1.02 DESCRIPTION OF WORK

- A. Sequence of operation is hereby defined as the manner and method by which controls function. Requirements for each type of control system operation are specified in this section.
- B. Operating equipment, devices and system components required for control systems are specified in other Division-15 Controls' sections of these specifications.
- C. This Section defines the installation of the automatic temperature controls required as shown on the Drawings and as hereinafter specified.

1.03 DEFINITIONS

the desired effect.

2.04 ELECTRICAL WIRING

Specification.

2.05 SHOP DRAWINGS

standing by in an idle state.

A. Shop Drawings of the following are required:

1. All ATC control components.

where specified.

of all equipment.

2.06 CONTROL DEVICES

thermostat.

2.07 CONTROLLED DEVICES

A. Dampers:

2.08 SUPERVISION

2.09 INSTRUCTIONS

drawings.

Data sheets for all control system components.

A. Standard Room Electronic Thermostat:

B. Electronic Programmable Thermostat:

key lock for each thermostat.

shall be Belimo Series or equal.

installation of all temperature control devices.

A. Upon completion of the project, the ATC Manufacturer shall:

of associated equipment and with manual override feature. Damper operator

A. ATC is Automatic Temperature Controls.

B. OPEN for motorized dampers, the position of the blades that creates the maximum free area possible of the damper which allows passage of air.

- C.CLOSE for motorized dampers, the position of the blades that prevents any passage of air.
- D.MAXIMUM for motorized dampers, the position of the blades other than open where the blades are adjusted to give the required maximum CFM.
- E. MINIMUM for motorized dampers, the position of the blades other than close where the blades are adjusted to give the required minimum CFM.
- F. ENABLED shall be the condition where the equipment is energized and/or otherwise activated to a stand-by state awaiting control signals from the ATC system.

G.DISENABLED shall be the condition where the equipment is de-energized.

H.ON shall be the condition where the equipment is operating and producing

I. OFF shall be the condition where the equipment is not operating and is

A. All electric wiring and wiring connections required for the installation of the ATC, herein specified, shall be provided by the ATC Manufacturer unless specifically shown on the Electrical Drawings or called for in the Electrical Specifications. All wiring shall comply with the requirements of Section 16000 - ELECTRICAL of the

2. ATC system diagrams coordinated to include provision for future interface 3. Control drawings with detailed piping and wiring diagrams, including bill of material and description of operation for all systems. Drawings shall by 22" x 34" standard size and shall be made from 22" x 34" reproducible mylars. 4. Panel layouts and nameplate lists for all local panels, with panel dimensions. 5. Valve and damper schedules showing size, configuration, capacity and location

1. The room thermostat shall consist of thermistor type of resistance temperature detector with a high reference resistance and built-in recalibration means. Or the thermostat shall consist of solid-state platinum resistance temperature detector with a high reference resistance. All thermostats shall have exposed adjustable set-point and mercury or dial indicating thermometer on the cover unless noted otherwise. Provide clear plastic guard with key lock for each

1. The electronic programmable thermostat shall consist of the same type of resistance temperature detector as the "Standard Room Electronic Thermostat." The thermostat shall be programmable at the face and have minimum two (2) settings per day, seven (7) day programming steps and skip-a-day features. The programmable information shall be maintained indefinitely, and the time of day and day of week shall be maintained for minimum eight (8) hours during power failure. Provide clear plastic guard with

1. Damper operators for all automatic dampers shall be unidirectional spring return type. Provide all dampers for normally closed position. Damper operators shall be installed outside of the ductwork and connected to an extended shaft. 2. Electric damper operator shall be direct coupled over the shaft, electric type operating on 24 volt, single phase power supply. Damper operator shall be gear driven with spring return and reversible rotation. Damper operator motor shall be resistant to overload burn-out. Proportional damper operator shall be compatible with 0-10 VDC and 4-20 mA control system signal and modulate damper in proportion to the input control signal. Two position operator shall rotate completely upon receipt of the control signal and return to normal position upon interruption of the control signal. Provide end switched for control

A. The Automatic Temperature Control Installer shall supervise the complete

1. Completely adjust, ready for use, all thermostats, controllers, valves, damper operators, relays, time clocks, etc. In addition, calibrate each instrument and control loop, and indicate the settings for each controller on the "as-built"

2. Furnish two (2) manuals consisting of complete approved submittal data covering the function and operation of the entire ATC system on the project for the use of the Owner's operating personnel. A Temperature Control Technician shall be provided for instruction purposes during the guarantee period, after an

E. Clamp-On Volt Ammeter.

initial session of 8 hours.

3. The ATC Manufacturer shall provide the services of a qualified Technician for the system start-up and air balancing periods.

2.10 GUARANTY

A. The Automatic Temperature Control Contractor shall guaranty all materials and labor to be free of defects of any kind for a period of one year after final acceptance by the Engineer and Owner. Any defects found during this period shall be repaired or replaced by the ATC Contractor at no expense to the Owner.

PART 3 - EXECUTION

3.01 TEMPERATURE CONTROL

A. Provide a complete system of temperature and operating controls, wiring, conduit, piping and devices as required for the sequences described in SEQUENCE OF OPERATION.

3.02 SEQUENCE OF OPERATION

- A. Rooftop Units: 1. Provide heating and cooling programmable wall thermostat or central network control with remote wall temperature sensors, per drawings. Install remote temperature controls where shown on plans
- 2. Provide engraved name tags with the rooftop unit tag name on the thermostats, central network control, and remote sensors.
- 3. Rooftop unit's internal controls shall control the staging of the economizer cooling stage, the mechanical cooling, and the gas heating systems.
- 4. Provide initial programming of the central network control for the days of week and hours of day which the system will function in the "Occupied Mode" and function in the "Unoccupied Mode."
- 5. Supply fan shall run continuously during "Occupied Mode" and intermittently during "Unoccupied Mode."

B. Exhaust Fans - General and Toilets:

- 1. Provide interlock between rooftop unit, supply fan motor, and the motor of the exhaust fan. Supply fan on, exhaust fan on; supply fan off, exhaust fan off. 2. Provide all wiring, conduits, etc. for a complete operating system. 3. Interlock exhaust fan with rooftop HVAC unit serving the area.
- C. Cabinet Heaters & Unit Heaters: 1. Units have wall mounted remote thermostat with set-point adjustment. 2. Thermostat shall activate unit when space temperature falls below set-point.

END SECTION

SECTION 15991 AIR SYSTEMS TESTING, ADJUSTING, AND BALANCING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specification sections, apply to work of this section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.

1.02 DESCRIPTION

- A. Work includes: Test, adjust, and balance air systems
- 1.03 JOB CONDITIONS
- A. Heating, ventilating, air conditioning equipment shall be completely installed and in continuous operation as required to accomplish the adjusting and balancing work specified. Complete air balancing prior to hydronic balancing.
- B. Perform adjusting and balancing when the system is operating at design capacity. 1.04 QUALITY ASSURANCE
- A. Only qualified personnel shall perform balancing work
- B. Submit evidence that the personnel who will perform the balancing of the project systems are gualified personnel for review and approval by the Architect/Engineer prior to performing the work.
- C. The balancing contractor shall be completely independent of the installing contractor. Any form of association is unacceptable. Documented proof of independence by the balancing contractor is required.

1.05 DEFINITION

- A. Qualified personnel are: 1. Personnel who have been certified by one of the following organizations:
- a. AABC Associated Air Balance Council b. Certified TBAB - Certified Testing, Balancing and Adjusting Bureau.

1.06 SUBMITTALS

- A. Submit Data Sheet on each item of balancing equipment required for Architect/Engineer approval. Include name of device, manufacturer's name, model number, latest date of calibration, and correction factors.
- B. Submit a report containing all data and other related information recorded during balancing, placed on appropriate forms for Architect/Engineer review and approval. Reports shall certify that the methods used and results achieved are as specified.

1.07 VERIFICATION

A.During Substantial Completion Inspection, a percentage (not more than 5%) of the recorded data will be subject to verification by the Architect/Engineer. Contractor shall take instrument readings as required.

PART 2 - PRODUCTS

- 2.01 AIR BALANCE INSTRUMENTS
- A. Velometer with probes and Pitot tube.
- B. Rotating vane anemometer
- C.ASHRAE Standard Pitot tubes, stainless steel 5/16 outside diameter, lengths 18" and 36".
- D.Magnehelic Differential Air Pressure Gages, 0 to 0.5", 0 to 1.0" and 0 to 5.0" water pressure ranges, each arranged as a portable unit for use with a standard Pitot tube.
- E. Combination inclined-vertical portable manometer, range 0 to 5.0" water.
- F. Portable type hook gage, range 0 to 12" water.
- G.Portable flexible U-tube manometer, magnetic mounting clips, range 0 to 6"
- H. Static Pressure Probe for Induction Unit.
- I. Conical or pyramidal shaped hood.
- 2.02 SYSTEM PERFORMANCE MEASURING INSTRUMENTS
- A.Insertion thermometers, with graduations at 0.5 LF.
- B. Sling Psychrometer.
- C. Tachometer, Centrifugal Type
- D. Revolution Counter.

F. Recorders, Portable Type for temperature and humidity.

G.Portable Orsat Flue-Gas Analyzer for measuring CO2.

PART 3 - EXECUTION

3.01 AIR SYSTEMS (Adjust and balance systems in accordance with the following requirements):

A.Preliminary:

- 1. Identify and list size, type and manufacturer of all equipment to be tested, including air terminals. Check all system components for proper installation and operation.
- 2. Use manufacturers' ratings for all equipment to make required calculations, except where field test shows ratings to be impractical.
- Verify that all instruments are accurately calibrated and maintained. 4. Install clean filters.
- 5. Simulate wet cooling coil with baffles.

B. Central System:

bulb in degrees F.

return. Adjust air regulators.

required flow reading.

3.02 Refrigeration Capacity Tests

period of stable operation.

accurate to nearest 100 VA.

to determine percent effectiveness.

A. Adjust air quantities to follwing tolerances:

accomplish required air quantity.

3.06 WORK PERFORMANCE BY OTHERS

to achieve required sequence of operations.

the Test and Balance Agency reported deficiencies.

A. Fill in balancing results on approved forms.

2. Each room with multiple outlets: 0% to plus 5%.

midway between pressure drop for clean and dirty filter.

1. Each outlet: plus or minus 5%.

3. Fans: 0% to plus 5%.

balancing report.

3.07 SUBMISSION OF REPORTS

Engineer for review.

D.END SECTION

D.Performance Report:

3.03 Electric Heating Equipment

while fully energized.

operations.

3.05 ADJUSTING

3.04 AUTOMATIC CONTROL SYSTEM

B. Verify settings of safety and operating controls.

C.Make three trial observations, record readings of:\

E. Verification:

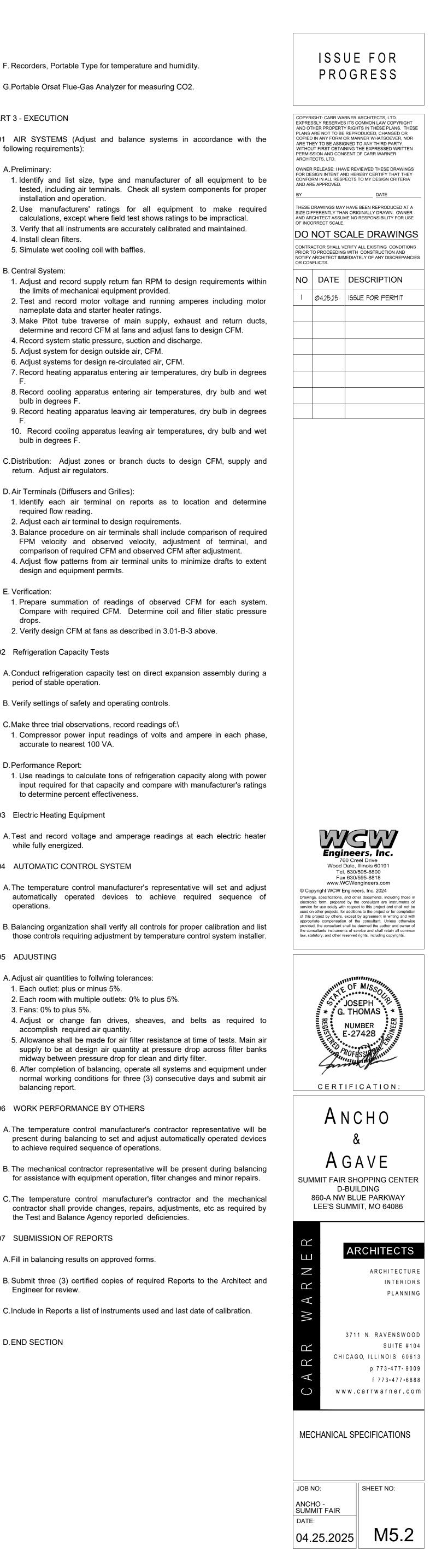
D. Air Terminals (Diffusers and Grilles):

design and equipment permits.

2. Adjust each air terminal to design requirements.

2. Verify design CFM at fans as described in 3.01-B-3 above.

- 1. Adjust and record supply return fan RPM to design requirements within the limits of mechanical equipment provided.
- 2. Test and record motor voltage and running amperes including motor nameplate data and starter heater ratings.
- 3. Make Pitot tube traverse of main supply, exhaust and return ducts,
- determine and record CFM at fans and adjust fans to design CFM. 4. Record system static pressure, suction and discharge.
- 5. Adjust system for design outside air, CFM.
- 6. Adjust systems for design re-circulated air, CFM. 7. Record heating apparatus entering air temperatures, dry bulb in degrees
- 8. Record cooling apparatus entering air temperatures, dry bulb and wet
- bulb in degrees F. 9. Record heating apparatus leaving air temperatures, dry bulb in degrees



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GENERAL- KITCHEN

<u>DUCTS</u>

- 1. MATERIAL SELECTION:
- 1.1. EXHAUST DUCTS SERVING TYPE I HOODS MUST BE A MINIMUM 16 GA. STEEL OR 18 GA. STAINLESS STEEL. 1.2. EXHAUST DUCTS SERVING TYPE II HOODS MUST BE A MINIMUM OF 18 GA. ALUMINUM OR 18 GA. STAINLESS STEEL.
- 2. JOINTS AND SEAMS OF HOOD EXHAUST DUCTS SHALL BE MADE WITH A CONTINUOUS LIQUID-TIGHT WELD OR BRAZE. VERIFY IF A GREASE WELD INSPECTION IS REQUIRED PRIOR TO INSTALLATION OF FIRE WRAP.
- 3. GREASE DUCT MUST HAVE A MINIMUM AIR VELOCITY OF 1500 FT/MIN.
- 4. HORIZONTAL GREASE DUCTS MUST HAVE CLEANOUTS NO GREATER THAN 20 FEET APART.
- 5. GREASE DUCT SYSTEMS SERVING A TYPE I HOOD SHALL HAVE A CLEARANCE TO COMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 18". WHERE COMMERCIAL GREASE DUCTS ARE CONTINUOUSLY COVERED ON ALL SIDES WITH A LISTED AND LABELED FIELD-APPLIED GREASE DUCT ENCLOSURE MATERIAL, SYSTEM, PRODUCT OR METHOD OF CONSTRUCTION SPECIFICALLY EVALUATED FOR SUCH PURPOSE IN ACCORDANCE WITH ASTM E 2336, THE REQUIRED CLEARANCE SHALL BE IN ACCORDANCE WITH THE LISTING OF SUCH MATERIAL, SYSTEM, PRODUCT OR METHOD.

HOODS

- 1. ALL COMMERCIAL COOKING EQUIPMENT MUST HAVE A TYPE I OR TYPE II HOOD.
- 2. ALL COMMERCIAL COOKING EQUIPMENT THAT PRODUCES GREASE OR SMOKE MUST HAVE A TYPE I HOOD.
- 3. TYPE I HOOD SYSTEMS SHALL BE DESIGNED AND INSTALLED TO AUTOMATICALLY ACTIVATE THE EXHAUST FAN WHENEVER COOKING OPERATION OCCURS.
- 4. TYPE I HOODS SHALL BE CONSTRUCTED OF MINIMUM 18 GA. STEEL OR 20 GA. STAINLESS STEEL.
- 5. TYPE II HOODS SHALL BE CONSTRUCTED OF MINIMUM 22 GA. STEEL OR 24 GA. STAINLESS STEEL.
- 6. CANOPY HOODS MUST EXTEND 6" BEYOND THE EDGE OF THE COOKING SURFACE.
- 7. EXHAUST OUTLETS FROM A HOOD SHOULD BE LOCATED
- OPTIMALLY BUT NOT MORE THAN 12 FEET ON CENTER. 8. KITCHEN HOODS SHALL BE PROVIDED WITH A HEAT SENSOR TO
- AUTOMATICALLY ACTIVATE KITCHEN HOOD EXHAUST FANS. 9. A PERFORMANCE, CAPTURE AND CONTAINMENT TEST SHALL BE
- PERFORMED ON KITCHEN EXHAUST HOODS IN ACCORDANCE WITH APPLICABLE CODES PRIOR TO FINAL INSPECTION.

MAKE-UP AIR

- 1. VENTILATION UNITS PROVIDING MAKE-UP AIR SHALL BE INTERLOCKED WITH HOOD EXHAUST FAN TO PROVIDE MAKE-UP AIR THAT IS APPROXIMATELY EQUAL TO THE VOLUME EXHAUSTED.
- EXHAUST TERMINATION
 - 1. NO EXHAUST MAY TERMINATE WHERE IT CREATES A PUBLIC NUISANSE OR A FIRE HAZARD.
 - 2. TYPE I EXHAUST DUCTS MUST NOT TERMINATE IN WALLS WHERE PROTECTED OPENINGS ARE REQUIRED OR WITHIN 15 FEET HORIZONTALLY OF ANY BUILDING OPENING.

1. SEE P6.1 SHEET.

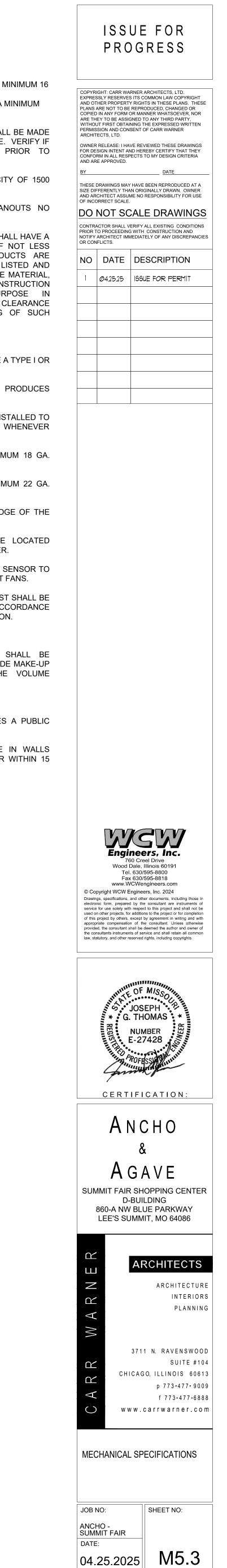
SECTION 15060 PIPE, PIPE FITTINGS AND PIPE SPECIALTIES

END SECTION.

SECTION 15400 PLUMBING

1. SEE P6.1 SHEET.

END SECTION.



EXISTING CONDITIONS NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD SURVEY AND DOCUMENTING OF EXISTING SYSTEMS. THESE CONTRACT DRAWINGS SHALL SERVE AS GUIDANCE FOR THE CONTRACTOR ALONG WITH FIELD SURVEY INFORMATION TO INSTALL THE DISTRIBUTION SYSTEMS REQUIRED FOR THE NEW EQUIPMENT AND DEVICES.

REFER TO THE ARCHITECTURAL DRAWINGS FOR WALLS, CEILINGS, ETC. THAT ARE BEING REMOVED. ALL EXISTING SYSTEMS INCLUDING PIPING, WIRING, ANCHORING, ETC. THAT ARE EXPOSED SHOULD BE REMOVED OR RELOCATED.

THIS IS AN EXISTING BUILDING THAT WILL REQUIRE DEMOLITION, REMOVAL RELOCATION, REPLACEMENT, RECONNECTION, ETC, OF SOME OF THE PLUMBING SYSTEMS. THE CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES INVOLVED IN ACCOMPLISHING THE NEW WORK. PROBLEMS, DISCREPANCIES OR INFORMATION NEEDED SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING PRIOR TO SUBMITTING A PROPOSAL. THE SUBMISSION OF PROPOSAL WILL INDICATE THAT THE CONTRACTOR HAS FULLY UNDERSTOOD AND HAS INCLUDED ALL COSTS FOR THIS PROJECT.

DEMOLITION NOTES

- 1. ALL WORK SHALL CONFORM TO THE LOCAL & STATE BUILDING CODE AND ORDINANCES.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS PORTION OF THE WORK WITH OTHER PORTIONS OF THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS. METHODS, TECHNIQUES, AND SAFETY TO THE PUBLIC AND TO PROPERTY BOTH PRIVATE AND PUBLIC.
- 4. CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THIS PORTION OF THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF EXISTING MATERIALS RELATED TO THE INSTALLATION OF ANY NEW WORK, RELOCATION OF ANY WORK AND DEMOLITION WORK. NO CUTTING OF STRUCTURAL ELEMENTS SHALL BE DONE WITHOUT THE ARCHITECTS WRITTEN APPROVAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL EXISTING EQUIPMENT AND DEVICES NOT REQUIRED FOR THE WORK AND NOT SHOWN AS EXISTING TO REMAIN AS INDICATED ON THE DRAWINGS. DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE MAJOR ITEMS OF EXISTING EQUIPMENT AND SYSTEMS. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF EXISTING EQUIPMENT AND DEVICES TO BE REMOVED. ALL SHUT DOWNS AND DEMOLITION SHALL BE PHASED AND COORDINATED WITH NEW WORK. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SHUT DOWNS AND REMOVAL OF ITEMS WITH THE OWNERS PROJECT MANAGER.

FOOD SERVICE EQUIPMENT NOTES

- FOOD SERVICE EQUIPMENT AND FIXTURES FURNISHED BY AND INSTALLED BY OTHERS; REFERENCE ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND REQUIREMENTS.
- PROVIDE FINAL CONNECTIONS TO EQUIPMENT WITH SHUT-OFF VALVES, PRESSURE REGULATORS, VACUUM BREAKERS, BACKFLOW PREVENTERS, UNIONS (INSTALL UNION BETWEEN APPLIANCE AND SHUT-OFF), FLEXIBLE CONNECTORS, FILTERS, DIRT LEGS, TRAPS, STOP VALVES, ECT. AS SPECIFIED, AS REQUIRED BY CODE, AND AS NECESSARY TO COMPLETE AND OPERATING EQUIPMENT.
- CONNECT WASTE LINES OR EXTEND WASTE LINES TO FLOOR DRAINS WITH AIR GAP, CONNECT WATER SUPPLIES AND CONNECT GAS SUPPLIES.
- COORDINATE WITH GENERAL CONTRACTOR. OWNER AND FOOD SERVICE EQUIPMENT SUPPLIER/CONTRACTOR FOR EQUIPMENT IDENTIFICATION, CONNECTION REQUIREMENTS, EXACT LOCATIONS AND MOUNTING HEIGHTS. REFER TO EQUIPMENT LITERATURE FOR FINAL EQUIPMENT CONNECTION SIZE: GAS. CWS. HWS. ETC.
- PROVIDE BACKFLOW PREVENTER TO DRINK DISPENSER, COFFEE BREWER, ICE MACHINE, DISHWASHING MACHINE, CARBONATOR, PRE-RINSE SPRAYER, SOAP DISPENSER ETC. AS REQUIRED BY LOCAL CODE.
- WHERE CHEMICAL DISPENSERS ARE INSTALLED, THEY SHALL BE ON A DEDICATED WATER SUPPLY WITH BACKFLOW PREVENTERS AS REQUIRED BY LOCAL CODE.

FIRE SUPPRESSION GENERAL N

- PROVIDE ALTERATIONS AND MODIFICATIONS AS NECESSARY TO FU INSTALL COMPLETE FIRE PROTECTION SYSTEM PER NFPA #13. THE COMPLY WITH ALL REQUIREMENTS OF LOCAL, STATE AND FEDERAL AND LANDLORD'S AND TENANT'S INSURING AGENCY.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE RULES AND REGUL LOCAL FIRE PROTECTION DISTRICT AND WATER DEPARTMENT.
- ALL AUTHORITIES HAVING JURISDICTION SHALL BE NOTIFIED AT LEA WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM INCLUDING HANGERS, VALVES, ALARMS, SUPPORTS AND SPRINKLER HEADS, NE AS REQUIRED FOR INSTALLATION OF COMPLETE AND APPROVED FI PROTECTION SYSTEMS.
- WORK SHALL BE PERFORMED BY AN APPROVED AUTOMATIC FIRE P SPRINKLER CONTRACTOR. SHOP DRAWINGS AND CALCULATIONS S PREPARED BY A REGISTERED PROFESSIONAL ENGINEER. APPROVE CONTRACTOR AND THE CONTRACTOR'S REGISTERED ENGINEER SH LICENSED WITH THE PROPER AUTHORITIES FOR THE LOCATION OF
- PROVIDE A COMPLETE WET PIPE SPRINKLER SYSTEM FOR ALL AREA OTHERWISE INDICATED OR REQUIRED FOR FREEZE PROTECTION.
- SPECIAL CONSIDERATION SHALL BE GIVEN TO AREAS THROUGHOUT SUCH AS DROPPED SOFFITS AND LIGHTING SOFFITS THAT NECESSI ADDITIONAL SPRINKLER HEADS.
- RUN PIPING HORIZONTALLY AND AT RIGHT ANGLES TO WALLS AND (CENTER SPRINKLER HEADS IN BOTH HORIZONTAL DIRECTION WITH CEILING COMPONENTS, SUCH AS CEILING GRID, LIGHT FIXTURES, HY AND SPEAKERS OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- FIRE PROTECTION SYSTEM SHOP DRAWINGS SHALL INCLUDE SEPAR COMPLETE REFLECTED CEILING PLANS INDICATING LOCATION OF EA SPRINKLER HEAD AS WELL AS PIPING LAYOUTS.
- 10. PROVIDE AUXILIARY DRAINS WHERE NECESSARY.
- REVISE AND REROUTE THE SPRINKLER PIPING AROUND LIGHT FIXTURE AND OTHER CEILING DEVICES TO AVOID CONFLICTS.
- 12. FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY EXACT REQU BUILDING REGARDING PIPE SIZES, ADEQUATE PRESSURES, SERVICE ZONING AND SUBMIT SHOP DRAWINGS TO THE AUTHORITIES FOR AF PRIOR TO FABRICATION OR INSTALLATION OF FIRE PROTECTION WA AND SYSTEMS.
- AUTOMATIC SPRINKLERS SHALL BE OF THE OPERATING TEMPERATURE REQUIRED BY THE LOCATION WITH SPECIAL REGARD FOR HEATING SPRINKLER PIPING SHALL ROUTE AROUND, PROVIDE PROPER CLEAF AVOID CONFLICT WITH BUILDING EQUIPMENT AND SYSTEMS
- 14. ALL PIPING SHALL BE ROUTED IN THE SUSPENDED CEILING SPACE, WALLS AND BEHIND FIXED FURNISHINGS, UNLESS OTHERWISE INDIC PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE THE UNDERSIDE OF THE STRUCTURE.
- REFER TO ARCHITECTURAL DRAWINGS OR CONSULT ARCHITECT FC LOCATION OF FIXTURES, EQUIPMENT, ETC. AND FINAL FINISHED ELE PRIOR TO ANY INSTALLATION WORK.
- 6. EXISTING SYSTEMS THAT REQUIRE RELOCATION AND SERVE EXISTI OR EQUIPMENT OR AREAS THAT MUST REMAIN ACTIVE, SHALL BE R DURING OWNER SCHEDULED SHUT-DOWNS. TEMPORARY CONNECT EXTENSIONS OF REQUIRED SYSTEMS SHALL BE PROVIDED AS NEED THE CONTRACTOR'S EXPENSE.
- 17. CONTRACTOR SHALL VISIT THE SITE AND DOCUMENT EXITING COND THE LIMITS OF DEMOLITION, PRIOR TO START OF ANY WORK. FORW ARCHITECT/ENGINEER, FOR REVIEW, ONE (1) COPY OF EQUIPMENT / BEING REMOVED BY DEMOLITION WORK AND NEW INSTALLATION WO DEMOLITION AREA SHALL BE AS INDICATED ON DRAWINGS PREPARE ARCHITECTURAL CONSULTANT.
- CAREFULLY REVIEW THE INTERIOR DESIGN, ARCHITECTURAL, STRU ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEN REMOVED, RELOCATED, OR ACCOMMODATED; INCLUDE ALL COSTS FOR THIS WORK.
- NEW OR EXISTING EQUIPMENT SHALL NOT BE LOCATED ABOVE INAC CEILINGS. PROVIDE LOCATION OR RELOCATION OF EQUIPMENT TO A ACCESSIBLE CEILINGS AND RECONNECT EQUIPMENT TO SYSTEMS.
- 20. DRAINING AND REFILLING OF SYSTEMS AS REQUIRED FOR DEMOLIT NEW INSTALLATIONS WORK, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 21. ALL SPRINKLERS IN CEILINGS SHALL BE WHITE CONCEALED PENDAN EXACT LOCATIONS OF EACH AND EVERY SPRINKLER WILL BE APPRO ARCHITECT AND OWNER. SUBMIT PRODUCTS AND SPRINKLER LOCA ARCHITECT AND OWNER FOR APPROVAL PRIOR TO SHOP DRAWING
- 22. VERIFY ALL EXISTING REQUIRED SYSTEM COMPONENTS ARE IN PLA OPERATIONAL. PROVIDE REPAIRS AND/OR ADD COMPONENTS AS RI AUTHORITIES TO ACHIEVE FULLY COMPLIANT AND OPERATIONAL SY
- 23. DESIGN DENSITY FOR ALL AREAS SHALL BE 0.10 GPM FOR A 1500 SQ AREA EXCEPT EQUIPMENT ROOMS, JANITOR ROOMS, STORAGE ROO SUPPLY ROOMS WHICH SHALL BE 0.15 GPM FOR A 1500 SQ. FT. REMO VERIFY DENSITY AND COVERAGE REQUIREMENTS WITH AUTHORITIE
- 24. PROVIDE AUTOMATIC SPRINKLER PROTECTION AT ELEVATOR SHAFT EQUIPMENT ROOMS PER REQUIREMENTS OF AUTHORITIES TO INCLU ALARMS, SWITCHES, DRAINS, ETC., VERIFY WITH AUTHORITIES.
- 25. PROVIDE AUTOMATIC SPRINKLER PROTECTION AT RECESSED WIND POCKETS IF REQUIRED BY AUTHORITIES.

NOTES	PI	LUMBING SYMBOLS
	—CWS—	COLD WATER SUPPLY PIPING
URNISH AND E SYSTEM SHALL	HWR	HOT WATER RETURN PIPING
AL AUTHORITIES	—HWS—	HOT WATER SUPPLY PIPING
	IW	INDIRECT WASTE PIPING/SEWER
JLATIONS OF THE	——SAN——	SANITARY DRAINAGE & WASTE PIPING
EAST THREE	ST	STORM DRAINAGE & WASTE PIPING
LAST THREE	— — ·V· — —	SANITARY VENT PIPING
G PIPING,	BFP	BACKFLOW PREVENTER
NECESSARY AND	DW	DISHWASHER
-IRE	ET	EXPANSION TANK
PROTECTION	FC0	FLOOR CLEANOUT
SHALL BE	 FD	FLOOR DRAIN
√ED SHALL BE	 FS	FLOOR SINK
THIS PROJECT.	GW	GREASE WASTE
EAS, UNLESS	HCP	HOT WATER RECIRCULATION PUMP
	HD	HUB DRAIN
UT THE BUILDING SITATE	 HS	HAND SINK
SHALE	 IM	ICE MAKER
CEILINGS.	KS	KITCHEN SINK
H RESPECT TO HVAC DIFFUSERS	LAV	LAVATORY
HVAC DIFFUSERS	MB	MOP BASIN
ARATE AND	PRV	PRESSURE REDUCING VALVE
EACH	SK	SINK
	<u>5K</u>	TRENCH DRAIN
	TMV	THERMOSTATIC MIXING VALVE
TURES, GRILLES,	TP	
	<u> </u>	
UIREMENTS FOR CE LOCATIONS,	WCO	
APPROVAL		
VATER SERVICE		WATER CLOSET
TURE AS		WATER HEATER
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RED BY THE	W	WASTE
		NEW CONNECTION
UCTURAL AND		LINE SIZE GATE VALVE
S IN BASE BID	Q	
	φ	LINE SIZE BALL VALVE (2" & SMALLER) OR LINE SIZE BUTTERFLY VALVE (2-1/2" & LARGER)
ACCESSIBLE O AREAS ABOVE	N	LINE SIZE CHECK VALVE
6. 6.		LINE SIZE GAS COCK VALVE
ITION AND/OR		LINE SIZE UNION
lis	•	
		BING DRAWING INDEX
ANT TYPE. ROVED BY		
CATIONS TO G PROCESS.		IG NOTES, SYMBOLS, AND ABBREVIATIONS
		IG - UNDERGROUND PLAN
ACE AND REQUIRED BY		IG GROUND FLOOR - WATER & VENT PLAN
SYSTEM.		IG SCHEDULES
Q. FT. REMOTE		IG ISOMETRICS - WASTE AND VENT
DOMS, AND MOTE AREA.		IG ISOMETRICS - WATER
TES.		IG DETAILS
FTS AND		IG DETAILS
LUDE VALVES,	P6.1 PLUMBIN	IG SPECIFICATIONS
	P6.2 PLUMBIN	IG SPECIFICATIONS
DOW CEILING		

PLUMBING GENERAL NOTES

- A. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL AUTHORITIES.
- ALL AUTHORITIES HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST THREE WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- ALL PIPING SHALL BE ROUTED IN THE SUSPENDED CEILING SPACE UNLESS OTHERWISE INDICATED. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEEL.
- EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.
- SLEEVE OR DRILL FLOOR SLABS, WALLS, ETC. AS REQUIRED FOR PIPING AND FIRE-STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS. JOISTS, ETC. BEFORE DRILLING.
- ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
- ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED.
- ALL PIPING SHALL RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING PROVIDE AN ISOLATING DIELECTRIC UNION.
- PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
- PROVIDE A COMPLETE SYSTEM OF COPPER OR STEEL (OR DWV PVC IF ALLOWED BY CODE) VENT RISERS ABOVE FLOOR. ALL VENTS SHALL BE CARRIED THROUGH THE ROOF WITH FLASHING.
- K. CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE TYPE "M" COPPER TUBING.
- PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE.
- M. HOT AND COLD WATER PIPING SHALL BE TYPE L COPPER PIPING ABOVE GRADE AND, FITTINGS AS REQUIRED BY LOCAL AUTHORITIES. PROVIDE WATER HAMMER ARRESTORS WADE "SKOKSTOP" MODEL NO. W-5 THROUGH W-100, SIZE AND LOCATION AS INDICATED BY MANUFACTURER. INSTALL STOP VALVE IN AN ACCESSIBLE LOCATION IN EACH WATER SUPPLY TO EACH FIXTURE. CHECK EXISTING WATER PRESSURE AND PROVIDE PRV WHEN WATER PRESSURE EXCEEDS 80 PSI.
- INSULATE ALL HOT AND COLD WATER PIPING BOTH VERTICALLY AND HORIZONTALLY, IN CEILING BELOW ALL HANDICAPPED FIXTURES AND CONCEALED IN WALLS COMPLETELY. PROVIDE 1" PREFORMED FIBERGLASS ASJ-VB. FLAME SPREAD 25. SMOKE DEVELOPED 50. ASTM C-547.
- ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.
- THE DOMESTIC WATER SYSTEM, AND DRAINAGE SYSTEMS SHALL BE FLUSHED AND PRESSURE TESTED. THE DOMESTIC WATER SYSTEM SHALL BE PURIFIED.
- Q. DRAINAGE PIPING ABOVE AND BELOW FLOOR SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE REQUIRED BY CODE. PROVIDE CAST IRON OR OTHER APPROVED MATERIAL ONLY WHEN REQUIRED BY JURISDICTION. CONTRACTOR SHALL CLEARLY IDENTIFY WHAT MATERIAL WAS BID AT THE TIME OF BID SUBMITTAL.
- R. ALL FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER SYSTEM. S. COORDINATE ALL SLAB PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO
- CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.
- PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- PROVIDE TEMPORARY COVERS, CAPS, OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. RAG WADS, DUCT TAPE, OR OTHER SIMILAR METHODS OF TEMPORARY COVERS SHALL NOT BE UTILIZED. UPON COMPLETION OF CONSTRUCTION, COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE SYSTEM BY SNAKING, RODING, OR JETTING THE SYSTEM IMMEDIATELY PRIOR TO PROJECT TURNOVER TO THE OWNER.
- SANITARY TEE FITTINGS SHALL NOT BE INSTALLED IN DRAIN WASTE, AND VENT (DWV) SYSTEM.
- W. HARD 90 DEGREE ELBOW WILL NOT BE PERMITTED ON SANITARY LINES. SUPPORT ALL PIPING AND DUCTWORK, EQUIPMENT, ETC. FROM TOP CHORD OF ROOF/FLOOR JOISTS, OR PROVIDE STRUCTURAL CALCULATIONS INDICATING BOTTOM CHORD ATTACHMENT IS ACCEPTABLE.
- PROVIDE A COMPLETE NATURAL GAS PIPING SYSTEM AS NOTED ON THE DRAWINGS. PROVIDE EITHER THREADED STEEL OR MALLEABLE IRON PIPE WITH MALLEABLE FITTINGS OR WELDED STEEL. PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND GOVERNING LOCAL CODES. PROVIDE ALL TESTS, METES, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. PAINT PIPING ON ROOF WITH TWO COATS OF RUST RESISTANT OUTDOOR PAINT.
- Z. PROVIDE CLEAR ACCESS TO ALL EQUIPMENT AND VALVES.
- AA. WATER SERVICE FOR FIRE, DOMESTIC AND COMBINED SERVICES SHALL BE INSTALLED AND TESTED FROM MAIN TO THE INTERIOR OF THE BUILDING BY THE SAME PLUMBING CONTRACTOR.

ISSUE FOR PROGRESS

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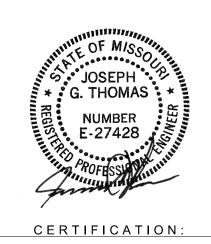
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NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS. NO DATE DESCRIPTION Ø4.25.25 ISSUE FOR PERMIT

PRIOR TO PROCEEDING WITH CONSTRUCTION AND

Engineers, Inc. 60 Creel Drive Wood Dale, Illinois 60191 Tel. 630/595-8800 Fax 630/595-8818 www.WCWengineers.com

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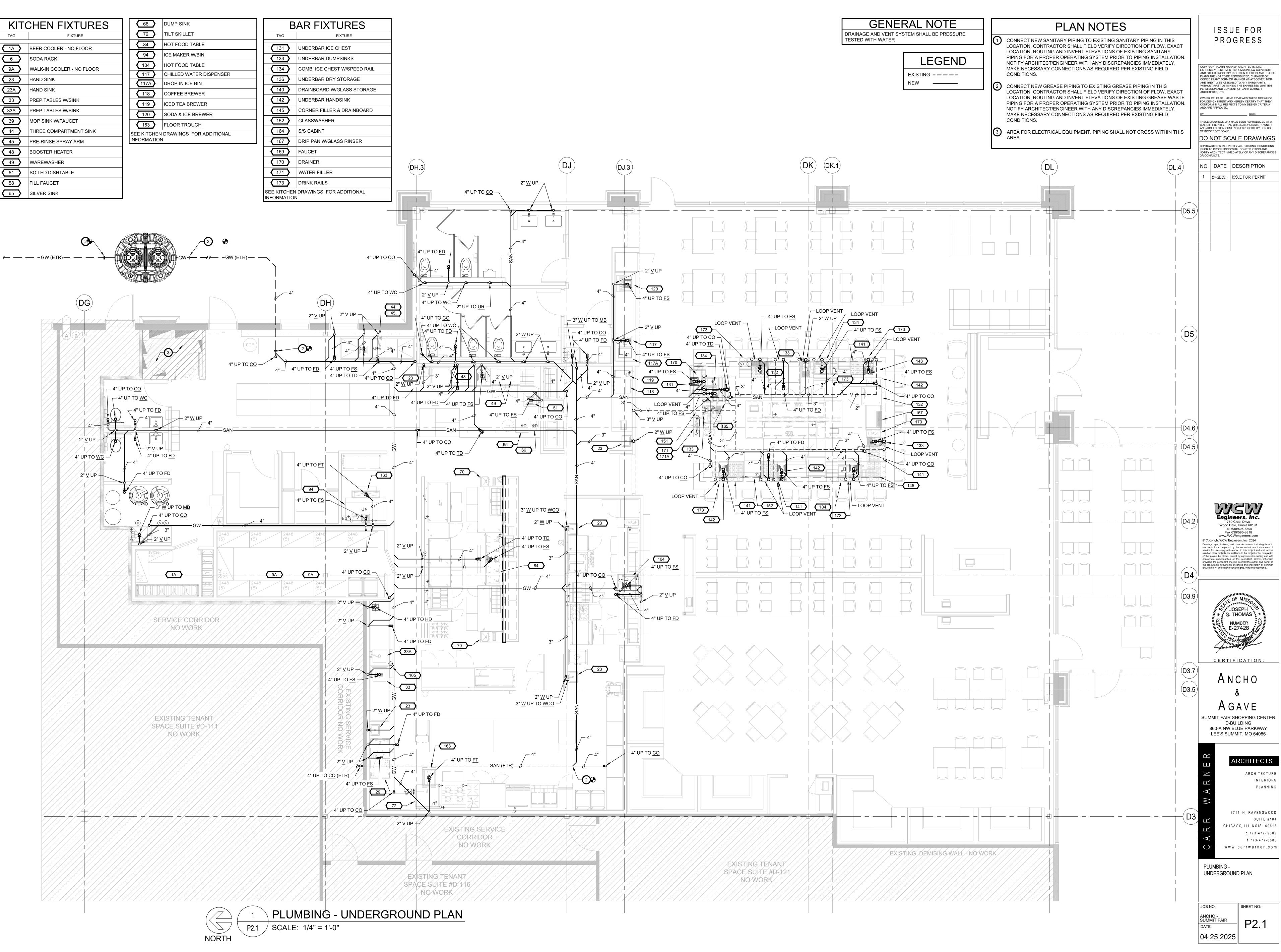
ANCHO

AGAVE SUMMIT FAIR SHOPPING CENTER D-BUILDING 860-A NW BLUE PARKWAY LEE'S SUMMIT, MO 64086



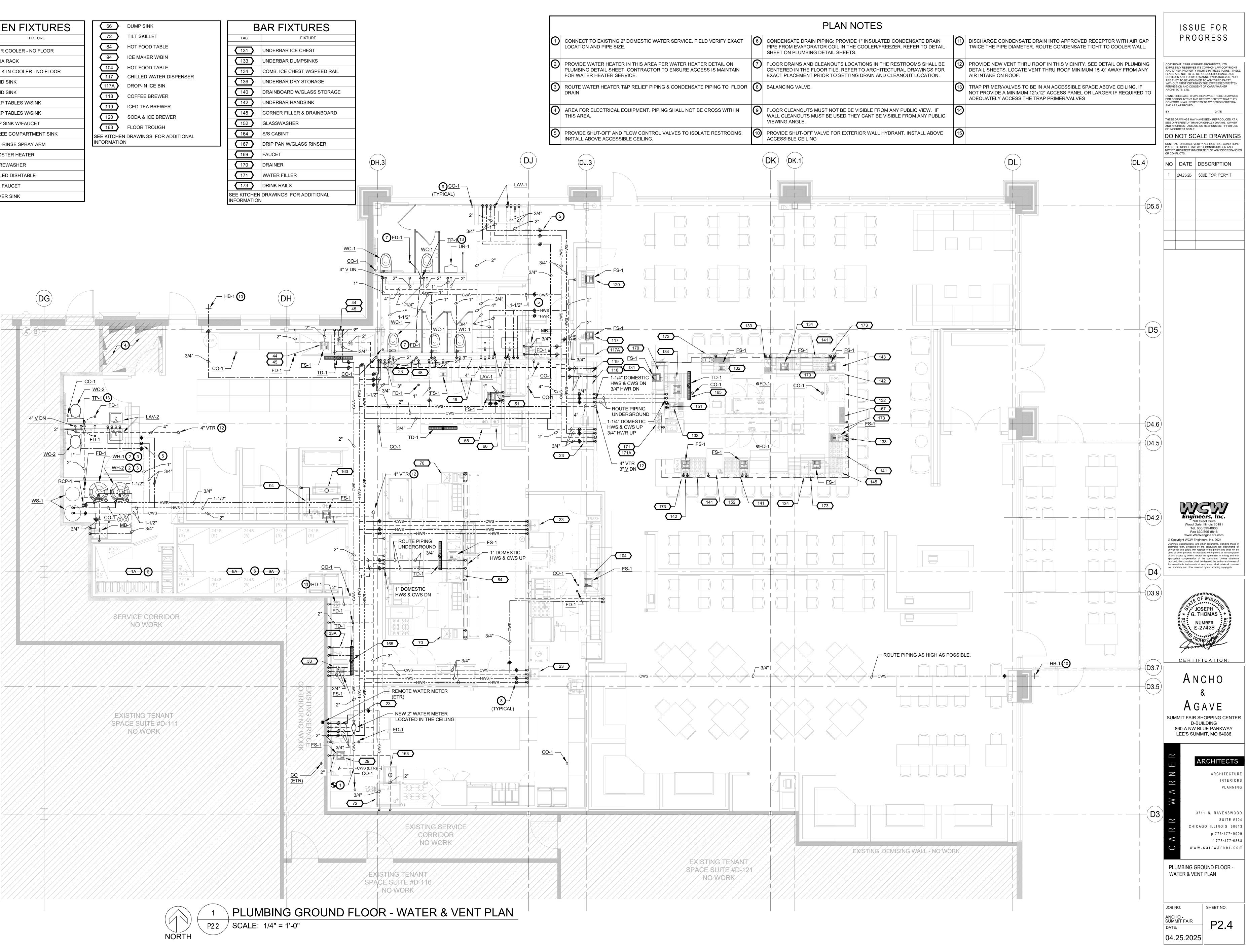
SHEET NO: JOB NO SUMMIT FAIR P1. DATE: 04.25.2025

KIT	CHEN FIXTURES		MP SINK	E	BAR FIXTUR
TAG	FIXTURE		T SKILLET	TAG	FIXTURE
	BEER COOLER - NO FLOOR	84 HOT	FOOD TABLE		UNDERBAR ICE CHEST
	SODA RACK	- 94 ICE	MAKER W/BIN		UNDERBAR DUMPSINKS
9A	WALK-IN COOLER - NO FLOOR	нот	FOOD TABLE		COMB. ICE CHEST W/SP
23	HAND SINK	- <u>117</u> CHI	LLED WATER DISPENSER		UNDERBAR DRY STORA
		117A DRC	DP-IN ICE BIN		
23A	HAND SINK	(118) COF	FEE BREWER		DRAINBOARD W/GLASS
33	PREP TABLES W/SINK		D TEA BREWER		UNDERBAR HANDSINK
33A	PREP TABLES W/SINK		DA & ICE BREWER		CORNER FILLER & DRAII
39	MOP SINK W/FAUCET		OR TROUGH		GLASSWASHER
44	THREE COMPARTMENT SINK		WINGS FOR ADDITIONAL		S/S CABINT
45	PRE-RINSE SPRAY ARM	INFORMATION		167	DRIP PAN W/GLASS RINS
48	BOOSTER HEATER			169	FAUCET
49	WAREWASHER			170	DRAINER
51	SOILED DISHTABLE			171	WATER FILLER
58	FILL FAUCET			173	DRINK RAILS
65	SILVER SINK	1		SEE KITCHE	N DRAWINGS FOR ADDITION



	CHEN FIXTURES	66	DUMP SINK
TAG	FIXTURE	72	TILT SKILLE
	BEER COOLER - NO FLOOR	84	HOT FOOD
	SODA RACK	94	ICE MAKER
9A	WALK-IN COOLER - NO FLOOR	104	HOT FOOD
23	HAND SINK		CHILLED W
23A	HAND SINK	(117A)	DROP-IN IC
33	PREP TABLES W/SINK	118	ICED TEA B
33A	PREP TABLES W/SINK		SODA & ICE
39	MOP SINK W/FAUCET	163	FLOOR TRO
44	THREE COMPARTMENT SINK		N DRAWINGS
45	PRE-RINSE SPRAY ARM	INFORMATIC	DN
48	BOOSTER HEATER		
49	WAREWASHER		
51	SOILED DISHTABLE		
58	FILL FAUCET		
65	SILVER SINK		

BAR FIXTU		
TAG	FIXT	
131	UNDERBAR ICE CHE	
133	UNDERBAR DUMPSI	
134	COMB. ICE CHEST W	
136	UNDERBAR DRY STO	
140	DRAINBOARD W/GLA	
142	UNDERBAR HANDSI	
145	CORNER FILLER & D	
152	GLASSWASHER	
164	S/S CABINT	
167	DRIP PAN W/GLASS	
169	FAUCET	
170	DRAINER	
171	WATER FILLER	
173	DRINK RAILS	
SEE KITCHEN	I DRAWINGS FOR ADI N	



								PLUN	IBING	FIXTU	RE SC	HE	DULE							
SYMBOL/ DESIGNATOR	FIXTUF	RE	MANUFACT	URER	MODEL N	O.	TYPE	FINISH	TRAP	MOUNTING	G CARRI	ER	SUPPLY F	TITTING	STOP	VALVE		REI	MARKS	
WC-1 (ADA)	WATER CL	.OSET								WALL HUN	G						REFER TO A SPECIFICAT		DRAWINGS FO	R
WC-1 (ADA)	WATER CL	OSET.								FLOOR MOUNTED	,						REFER TO A SPECIFICAT		DRAWINGS FO	R
UR-1 (ADA)	URINA	۱L								WALL HUN	G JR SMI NO. 637-				INTE		REFER TO A SPECIFICAT		DRAWINGS FO	R
LAV-1 (ADA)	LAVATC	RY								COUNTERT	OP						REFER TO A SPECIFICAT		DRAWINGS FO	R
LAV-2 (ADA)	LAVATC	RY								WALL HUN	G JR SMI 0700-N						REFER TO A SPECIFICAT		DRAWINGS FO	R
HB-1	HOSE B	IBB	JR SMI	тн	5619QT	N	WALL IOUNTED	BRONZE WITH SS FACE	-	WALL MOUNTED 1 A.F.G.	8" NON	Ξ	-			- [DRAINING Q INTEGRAL V	UARTER TURN I ACUUM BREAKE	ANTI-SIPHON, AU HYDRANT, NON- ER. ALL BRONZE "SOLDER INLET	FREEZE
MB-2	MOP BA	SIN	MUSTE	E	#63M 24" x 24"		FLOOR IOUNTED	DURASTONE FIBERGLASS	3" 'P' TRAP	FLOOR MOUNTED	NONE	≣	CHICAGO FA	AUCET 897	INTE		MOUNT SUP VACUUM BR		" ABOVE FLOOR	. INTEGRAL
NOTE: REFER	R TO ARCHITE	CTURA	L DRAWING	S FOR M	OUNTING HI	EIGHTS.			1		I		<u> </u>							
ER SUPPI												1/	VATER			IFP				
			SINGLE FIXTU			BINED FI					EXCHANGE	V						BRINE		
		COLD			. COLD	HOT	TOTAL	MARK MAN	NUFACTURER		CAPACITY. KGR @ SALT		SERVICE FLO	PEAK			ANK SIZE	TANK SIZE	REMAR	<s< td=""></s<>
	2	0.5	0	0.5	1.0	0.0	1.0				DOSAGE (LBS.)			GPM @ 25	PSI) (CC). F1.) ((DIA. IN.)	DIA. IN.)		
	6	1	1	1.4	6.0	6.0	8.4	WS-1	CULLIGAN	HE-210	240 @ 105		28.0	37.4		7	51	24 SEE B	ELOW.	
INK	1	3	3	4	3.0	3.0	4.0				PROVED EQU		R THE MANUFA	CTURER'S	SPECIFICA	TIONS.				
	1	3	3	4	3.0	3.0	4.0		BY OWNER, RO			-	_			_				
JCET Y ARM (THREE	1	2.25	2.25	3	2.3	2.3	3.0						PUMP	SCH	FDU	IF				
``	1	3	3	4	3.0	3.0	4.0													
R	1	0	1.4	1.4	0.0	1.4	1.4	DESIG'N	SERVICE	MANUFAC TURER	NO.	= 6	GPM HEAD (FEET)	LIQUID TEMP.	MOTOR	VOLTAGE			REMARKS	
.E	1	3 0.5	3	4 0.5	3.0 0.5	3.0 0.0	4.0								HP	VOLTAGE				
	2	1	1	1.4	2.0	2.0	2.8		OT WATER	TACO	0011 IN-LIN	IE	5 10	110°F	1/8	1Ø-115			DING O.D.P. MOT DR, REMITE SEA	
	1	0.5	0	0.5	0.5	0.0	0.5													
	1	0.5	0	0.5	0.5	0.0	0.5				VVA	A I E	ER HEA							
	1	0.5	0	0.5	0.5	0.0	0.5	DESIG'N	TYPE	MANUF		ODEL N	NO. GAS INPL				RECOVE — @100° R	SE	REMARKS	
	1	0.5	0	0.5	0.5	0.0	0.5								TAGE	FLA	(GPM)			
DISPENSER	1	0.5	0	0.5	0.5	0.0	0.5	WH-1	STORAGE TA	NK A.O	. SMITH BT	H-199 I	MXI 199	12	20/1	5.0	235	SEE BELO	W.	
R	1	0.5	0	0.5	0.5	0.0	0.5	WH-2	STORAGE TA	NK A.O	. ЅМІТН ВТ	H-199 I	MXI 199	12	20/1	5.0	235	SEE BELO	W.	
	1 2	0.5 3	0	0.5	0.5 6.0	0.0 6.0	0.5			,			RATURE & PRE			,	L MODEL# S	T-12 EXPANSION	N TANK, AND SY	/STEM
SINK	3	1	1	1.4	3.0	3.0	4.2						DRAIN							
SS RINSERS	2	0.5	0	0.5	1.0	0.0	1.0							301						
	2	0.5	0.5	0.7	1.0	1.0	1.4	DESIGNATOF	R TYPE	SIZE	MFG'R	MOI	DEL NO.	TOP				REMARKS	S	
	1	0.5 2.25	0 2.25	0.5 3	0.5	0.0 2.3	0.5	FD-1	FLOOR DRA	NN 4"	JAY R. SMITH	2	2010C PO	LISHED NI BRONZE	1 1 1 1	ANDAL PRO	OOF, TRAP	PRIMER.		
	5	10	0	10 10	50.0 20.0	0.0	50.0 40.0							BIXONZL						
	1	5	0	5	5.0	0.0	5.0	FS-1	FLOOR SIN	K 4"	JAY R. SMITH		3431	CAST IRC		DEEP ALU ROVIDE 1/2		IMENT BUCKET	, 4" DEEP SEAL.	'P' TRAP,
	4	1.5 1.5	1.5 1.5	2	6.0 3.0	6.0 3.0	8.0	FCO-1	FLOOR	- 4"	JAY R. SMITH		4020 NI	CKEL BRO		ANDAL PRO				
	3	2.25	0	3	6.8	0.0	9.0	FCO-1	CLEANOU	T 4			4020 NI				JOF TOP.			
CODE (2", 77 GPM)				ΤΟΤΑΙ	L: 131.8	44.9	170.7			T⊦	IERMC)ST			IG V	ALVF	E SCH	HEDUL	E	
PTOR CALCUL	ATIONS		All the second states where the			5A9BX		TMV-1 PF											ET WATER TEM	PERATURE
2 grease intercepto (/ 231) = gal x 0.75			Project Nar	ne: Anc	ho Agave	- Summ	it Fair	FC	DR 105°F MAXIN				BELOW LAVAT							
7 231) = gal x 0.75 TYPE	/ 211111 - 211	I	DIMENSIONS		ITY CU IN		/ RATE			FIXT	URE B	RA	NCH C	ONN	NECT	ION	SCH	EDULE	·	
	npartment Sink vasher (Door Ty		21" x 21" x 14 10 gal.	t" (3)	1 18,522 1 2,310		7 GPM 5 GPM			FD	XTURE				COLD W	ATER H	HOT WATER	WASTE	VENT	TRAP SIZE
	Sink One Bow	4 1	10" x 14" x 6" N/A		1 840 5 N/A) 1.3	6 GPM 0 GPM				P BASIN				3/4'	,	3/4"	3"	2"	3"
Floor	Sink	١	N/A N/A		3 N/A	N	0 GPM 0 GPM 0 GPM				OR DRAIN				-		-	4"	2"	4"
Floor Hand	Sink	1	10" x 14" x 5"		2 N/A 8 5,600	9.1	2 GPM				IK/ LAVATORY				1/2"		1/2"	2"	1-1/2"	2"
Mop E Prep S	3asin Sink One Bowl		24" x 24" x 10 21" x 21" x 14		2 11,520 2 12,348		7 GPM 4 GPM				CLOSET (F.V.)				1-1/4		-	4"	2"	-
						84.27	GPM				RINAL SINK				3/4'		- 1/2"	2"	2"	- 2"
ize interceptor (le	ess of fixtur	e or pi	pe size)																1-1/ <i>L</i>	
r Manning's Formu						75 GF			<u>, </u>					UIPN	/IEN [SCI	HEDL	ILE		
a wanning s ronnu	iid				ĵ.	/ 5 6		SYMBC		DESCRIPTIO			CATION B-1000 POLYET			ERCEPTO				

WATE

TAG	FIXTURE	QUANTITY	SIN	IGLE FIXTU	JRE	COM	BINED FIX	TURE
			COLD	НОТ	TOTAL	COLD	НОТ	TOTAL
6	SODA RACK	2	0.5	0	0.5	1.0	0.0	1.0
23	HAND SINK	6	1	1	1.4	6.0	6.0	8.4
33	PREP TABLE W/ SINK	1	3	3	4	3.0	3.0	4.0
33A	PREP TABLE W/ SINK	1	3	3	4	3.0	3.0	4.0
39	MOP BASIN W/FAUCET	1	2.25	2.25	3	2.3	2.3	3.0
43	PRE-RINSE SPRAY ARM (THREE COMP. SINK)	1	3	3	4	3.0	3.0	4.0
48	BOOSTER HEATER	1	0	1.4	1.4	0.0	1.4	1.4
51	SOILED DISHTABLE	1	3	3	4	3.0	3.0	4.0
58	FILL FAUCET	1	0.5	0	0.5	0.5	0.0	0.5
70	HAND SINK	2	1	1	1.4	2.0	2.0	2.8
72	TILT SKILLET	1	0.5	0	0.5	0.5	0.0	0.5
84	HOT FOOD TABLE	1	0.5	0	0.5	0.5	0.0	0.5
94	ICE MAKER	1	0.5	0	0.5	0.5	0.0	0.5
	HOT FOOD TABLE	1	0.5	0	0.5	0.5	0.0	0.5
(117)	CHILLED WATER DISPENSER	1	0.5	0	0.5	0.5	0.0	0.5
1 18	COFFEE BREWER	1	0.5	0	0.5	0.5	0.0	0.5
119	TEA BREWER	1	0.5	0	0.5	0.5	0.0	0.5
(133)	DUMP SINK	2	3	3	4	6.0	6.0	8.0
	UNDERBAR HAND SINK	3	1	1	1.4	3.0	3.0	4.2
152	GLASSWASHER					0.0	0.0	1.2
167	DRIP PAN W/ GLASS RINSERS	2	0.5	0	0.5	1.0	0.0	1.0
		2	0.5	0.5	0.7	1.0	1.0	1.4
	WATER FILLER	1	0.5	0	0.5	0.5	0.0	0.5
<u>177</u>	MOP BASIN	1	2.25	2.25	3	2.3	2.3	3.0
WC-1	WATER CLOSET	5	10	0	10	50.0	0.0	50.0
WC-2	WATER CLOSET	4	5	0	10	20.0	0.0	40.0
UR-1	URINAL	1	5	0	5	5.0	0.0	5.0
LAV-1	LAVATORY	4	1.5	1.5	2	6.0	6.0	8.0
LAV-2		2	1.5	1.5	2	3.0	3.0	4
HB-1	HOSE BIBB	3	2.25	0	3	6.8	0.0	9.0
ASED ON I	ILLINOIS PLUMBING CODE (2", 77 GPM)				TOTAL:	131.8	44.9	170.7

GREASE INTERCEPTOR CALCULATIONS	Quote: 5A9BXF9
Reference No. 82552	Project Name: Ancho Agave - Summit

Step 1: Flow rate to gro Fixture flow rate: (cu in / 2

Flow rate used to size i Pipe size (4 in): Pipe Size flow rate per Ma	nterceptor (less of fixture or	pipe size)		7	5 GPM
Total					84.27 GPM
Prep Sink One Bowl	Prep Sink One Bowl	21" x 21" x 14"	2	12,348	20.04 GPM
Mop Basin	Mop Basin	24" x 24" x 10"	2	11,520	18.7 GPM
Hand Sink	Hand Sink	10" x 14" x 5"	8	5,600	9.12 GPM
Floor Trough	Floor Drain	N/A	2	N/A	0 GPM
Floor Sink	Floor Sink	N/A	3	N/A	0 GPM
Floor Drain	Floor Drain	N/A	5	N/A	0 GPM
Dump Sink One Bowl	Dump Sink One Bowl	10" x 14" x 6"	1	840	1.36 GPM
Dishwasher	Dishwasher (Door Type)	10 gal.	1	2,310	5 GPM
3 Compartment Sink	3 Compartment Sink	21" x 21" x 14" (3)	1	18,522	30.07 GPM
NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
Tixture now rate. (cu iii / 25	r) = garx 0.757 2 min = 2 min no	w rate			

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Servings per day: 600 Grease production value: 0.0455 lbs per serving (Family Restaurant: High / Flatware) Days between pump-outs: 90 days

600 x 0.0455 x 90 = 2457 lbs of FOG

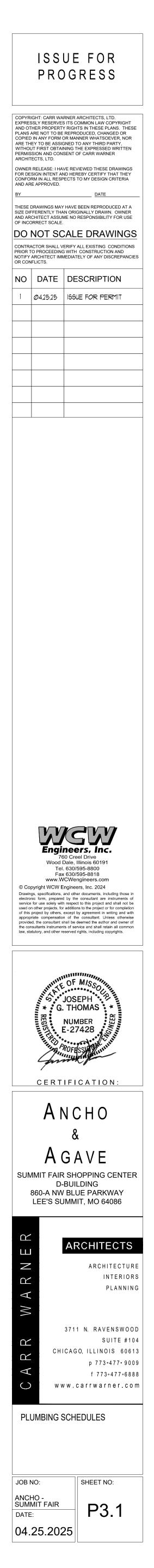
SCHIER MODEL	Description: GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" PLAIN/FPT CONNECTIONS, H-20 RATED PICKABLE
	CAST IRON COVERS
GB-1000	Dimensions: Length: 92", Width: 73.75", Height: 71.25" Flow Rate/Grease Capacity: 100 GPM / 5495 lbs
	Liquid Capacity: 1000 gal

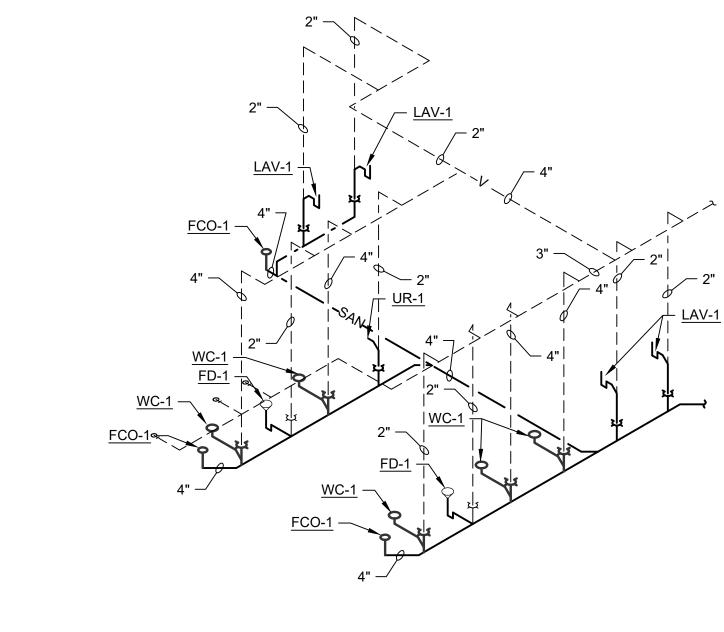
PLU	JMBIN	IG	FIXT	JRE	ΞS	CHE	ED	ULE									
FINISH	I TR	AP	MOUNTI	NG	CAF	RRIER		SUPPLY F	ITTING	S	STOP V	/ALVE			REM	ARKS	
		_	WALL HU	ING							MCGL NO. 2		REFER TO A		CTURAL I	DRAWINGS FOR	R
		-	FLOOF MOUNT								MCGL NO. 2		REFER TO		CTURAL I	DRAWINGS FOR	R
		-	WALL HU	ING		SMITH 637-M12					INTEG	RAL	REFER TO A		CTURAL I	DRAWINGS FOR	2
		-	COUNTER	TOP							MCGL #216		REFER TO A	-	CTURAL I	DRAWINGS FOR	2
		_	WALL HU	ING		SMITH 0-M31					MCGL #216		REFER TO A		CTURAL I	DRAWINGS FOR	2
BRONZ WITH S FACE	s -		WALL MOUNTEE A.F.G	0 18"	N	ONE		-			-		DRAINING (QUARTER /ACUUM	TURN H BREAKE	NTI-SIPHON, AU YDRANT, NON-F R. ALL BRONZE SOLDER INLET,	REEZE INTERIOR
DURASTC FIBERGL/	1 3 P	TRAP	FLOOF MOUNT		N	ONE	C	HICAGO FA	UCET 89	7	INTEG	RAL	MOUNT SUI VACUUM BI		TING 36" /	ABOVE FLOOR.	INTEGRAL
				•			·										
							WA	TER	SO	FTI	EN	ER					
MARK	MANUFACT	JRER	MODEL NO	CA	CHANG PACITY R @ SAI	Y.	SEF		W RATES PEAK		RES QUAN	ITITY	SOFTENER TANK SIZE	BRINE TANK SIZE		REMARK	S
WS-1	CULLIGA	N	HE-210	DOSA	AGE (LE	3S.) (GF	28.0	5 PSI) (0	GPM @ 25		(CU. 7		(DIA. IN.) 51	(DIA. IN.) 24	SEE BE	IOW	
1. PROVIE	DE SPECIFIE	D EQU	JIPMENT OR L BE INSTAL	 APPRO	VED E	QUAL.											
			OUGHED-IN									iono.					
				1			Ρι	JMP	SCH)UL	E					
DESIG'N	SERVIC	E	MANUFAC TURER	MODE NO.		YPE	GPM	HEAD (FEET)	LIQUID TEMP.	MOT						REMARKS	
RCP-1	HOT WAT RECIRCULA		TACO	0012	1 IN-	-LINE	5	10	110°F	<u>HI</u>		1Ø-115	5 3250			NG O.D.P. MOTO R, REMITE SEAL	
					V	VAT	ER	HEA		RS	СН	IED	ULE				
DESIG'I	N T	YPE	MAN	JFACTL		MODEL		GAS INPL	JT				RECOVE @100° F (GPM	RISE		REMARKS	
WH-1	STOR/	AGE TA		O. SMIT	гн	BTH-199	9 MXI	199		20/1		5.0	235		E BELOW		
WH-2	STOR	AGE TA	ANK A.	O. SMIT	гн	BTH-199	9 MXI	199	1	20/1		5.0	235	SE	E BELOW		
			ATION KIT, AS GC TO PRON										OL MODEL# S	ST-12 EXF	ANSION	TANK, AND SYS	STEM
							DF	RAIN	SCH	HED	DUI	_E					
DESIGNA	TOR	TYPE	SIZE	r	MFG'R	M	ODEL I	NO.	TOP					RI	EMARKS		
FD-1	I FLOO	DR DR/	AIN 4"	JAY	'R. SMI	ІТН	20100	, РС	LISHED N BRONZ			NDAL P	ROOF, TRAP	PRIMER.			
FS-1	I FLO	OR SIN	NK 4"	JAY	'R. SMI	ITH	3431		CAST IR	ON			LUMINUM SEI 1/2 GRATE	DIMENT B	UCKET,	4" DEEP SEAL. 'I	P' TRAP,
FCO-	1	LOOR EANOU	//"	JAY	'R. SMI	ІТН	4020	N	CKEL BR	ONZE	VAN	NDAL P	ROOF TOP.				
	L		 	HE	RM		TA		ЛІХІ	NG	VA		E SCI	HED	ULE		
TMV-				10" OR	"410" T	HERMO	STATIC	C MIXING V	ALVE WI							T WATER TEMF	PERATURE
			FIX	TUF	RF	BRA		СН С	ON		СТІ		I SCH	FDI	ЛF		
				FIXTUR											ASTE	VENT	TRAP SIZE
											3/4"		3/4"		3"	2"	3"
				LOOR D							-		-		4" 4"	2" 2"	4" 4"
						۲Y					1/2"		1/2"		2"	1-1/2"	2"
			HAND S														
				RCLOSE	•	′ .)					1-1/4" 3/4"		-		4" 2"	2"	-
						′.)					1-1/4" 3/4" 1/2"		- - 1/2"		4" 2" 2"	2" 2" 1-1/2"	- - 2"
				R CLOSE URINAL SINK	L	-					3/4" 1/2"	<u> </u>			2"	2"	- - 2"
	MBOL			R CLOSE URINAL SINK	L	-			UIPI	MEI	3/4" 1/2"	SC	- - 1/2" CHEDU		2"	2"	- - 2"

DIII			IXTU		SCHE		1						
	IMBIN	IG F		RE		DULE	<u>،</u>						
FINISH	I TR	٩P	MOUNTING	6	CARRIER	SUPPL	Y FITTING	STOP	P VALVE		REM	ARKS	
		-	WALL HUN	G					GUIRE . 2169	REFER TO A	RCHITECTURAL I ONS.	DRAWINGS FOR	
		-	FLOOR MOUNTED	,					GUIRE . 2169	REFER TO AI	RCHITECTURAL I ONS.	DRAWINGS FOR	
		-	WALL HUN		JR SMITH O. 637-M12			INTE	EGRAL	REFER TO AI	RCHITECTURAL I	DRAWINGS FOR	
		- (COUNTERT						GUIRE	REFER TO AI	RCHITECTURAL	DRAWINGS FOR	
			WALL HUN		JR SMITH			MC	2167 GUIRE		RCHITECTURAL	DRAWINGS FOR	
BRONZE	E		WALL		0700-M31			#2	2167		LL HYDRANT; AN		
WITH SS FACE		1	MOUNTED 1 A.F.G.	8"	NONE		-		-	INTEGRAL V	JARTER TURN H ACUUM BREAKEI OPERATED, 3/4"	R. ALL BRONZE	INTERIOR
DURASTO FIBERGLA		[RAP	FLOOR MOUNTED)	NONE	CHICAGO	FAUCET 897	INTE	EGRAL	MOUNT SUPI VACUUM BR	PLY FITTING 36" . EAKER.	ABOVE FLOOR.	INTEGRAL
1	I					1							
						NATE	R SOF	TEN	IER				
				EXCHA CAPA(NGE	SERVICE FL		R	RESIN		BRINE TANK		
MARK	MANUFACT		IODEL NO.	KGR @ DOSAGE		NTINUOUS M @ 15 PSI)	PEAK (GPM @ 25 P		U. FT.)		SIZE DIA. IN.)	REMARK	5
WS-1	CULLIGA	N	HE-210	240 @	105	28.0	37.4		7	51	24 SEE BE	LOW.	
2. WATER	DE SPECIFIE R SOFTENER DED BY OWN	SHALL B	BE INSTALLE	D AND S		R THE MANUF	ACTURER'S S	SPECIFIC	ATIONS.				
						PUMF	SCHI	EDU	ILE				
		M	IANUFAC I	MODEL		НЕА				CAL			
DESIG'N	SERVIC	_	TURER	NO.	TYPE	GPM (FEE		MOTOR HP	VOLTAG	E RPM		REMARKS	
RCP-1	HOT WAT RECIRCULA		TACO	0011	IN-LINE	5 10	110°F	1/8	1Ø-115	1 2260 1	ION-OVERLOADI ERVICE FACTOF		
					WAT	ER HE	ATER	SC	HED	ULE			
DESIG'N	л т	YPE	MANUF	ACTURE	R MODEL	NO. GAS IN		ELECTR	ICAL FLA	RECOVER @100° RI (GPM)		REMARKS	
WH-1	STOR	AGE TANK	К А.О.	SMITH	BTH-199	MXI 199			5.0	235	SEE BELOW		
WH-2	STOR	AGE TANK	К А.О.	SMITH	BTH-199	MXI 199	9 120)/1	5.0	235	SEE BELOW		
						ERATURE & PF (ETS AND UNI			-	OL MODEL#SI	-12 EXPANSION	TANK, AND SYS	STEM
										0211100222# 01			
						DRAIN	I SCH	ATER HE	EATERS.				
DESIGNA	TOR	TYPE	SIZE	MFC		DRAIN DDEL NO.		ATER HE	EATERS.		REMARKS		
DESIGNA		TYPE		MFC JAY R.	G'R MC	DDEL NO.	N SCH TOP		JLE	ROOF, TRAP F			
	FLOC		N 4"		G'R MC	DDEL NO.	N SCH		JLE ANDAL PI	ROOF, TRAP F		4" DEEP SEAL. 'I	P' TRAP,
FD-1	FLOC	OR DRAIN OR SINK LOOR	N 4"	JAY R.	G'R MC SMITH SMITH	2010C	TOP POLISHED NIC BRONZE		ATERS.	ROOF, TRAP F	PRIMER.	4" DEEP SEAL. 'I	P' TRAP,
FD-1 FS-1	FLOC	OR DRAIN OR SINK	N 4" 4" 4"	JAY R. JAY R. JAY R.	G'R MC SMITH SMITH SMITH	DDEL NO. 2010C 3431 4020	TOP TOP POLISHED NIC BRONZE CAST IRON		ATERS.	ROOF, TRAP F JUMINUM SED /2 GRATE ROOF TOP.	PRIMER.		P' TRAP,
FD-1 FS-1 FCO-7	I FLOO I FLOO 1 FLOO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH	JAY R. JAY R. JAY R.	G'R MC SMITH SMITH SMITH	DDEL NO. 2010C 3431 4020 FATIC	TOP TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON		JLE JLE ANDAL PF OVIDE 1 ANDAL PF	ROOF, TRAP F LUMINUM SED /2 GRATE ROOF TOP. ESCH	PRIMER.		
FD-1 FS-1 FCO-7	1 FLO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH MODEL "310	JAY R. JAY R. JAY R. IER	G'R MC SMITH SMITH SMITH MOS	DDEL NO. 2010C 3431 4020 FATIC	TOP TOP POLISHED NIC BRONZE CAST IRON NICKEL BROM NICKEL BROM		JLE JLE ANDAL PF OVIDE 1 ANDAL PF	ROOF, TRAP F LUMINUM SED /2 GRATE ROOF TOP. ESCH	PRIMER.		
FD-1 FS-1 FCO-7	1 FLO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH MODEL "310 M. LOCATE	JAY R. JAY R. JAY R. IER " OR "41	G'R MC SMITH SMITH SMITH MOS O" THERMOS AND CABINE	DDEL NO. 2010C 3431 4020 FATIC MIXING T BELOW LAV	TOP TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON NICKEL BRON NICKEL BRON		JLE JLE ANDAL PF DEEP AL ROVIDE 1 ANDAL PF AL STOP-S	ROOF, TRAP F LUMINUM SED /2 GRATE ROOF TOP. ESCH STRAINER-CHI	PRIMER.		
FD-1 FS-1 FCO-7	1 FLO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH MODEL "310 M. LOCATE FIXT	JAY R. JAY R. JAY R. JAY R. IER URI VALVE	G'R MC SMITH SMITH SMITH MOS O" THERMOS AND CABINE	DDEL NO. 2010C 3431 4020 FATIC MIXING T BELOW LAV	TOP TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON NICKEL BRON NICKEL BRON		JLE JLE ANDAL PR DEEP AL ROVIDE 1 ANDAL PR AL STOP-S AL STOP-S TION	ROOF, TRAP F JUMINUM SED /2 GRATE ROOF TOP. ESCH STRAINER-CHI JSCHI HOT WATER	PRIMER. MENT BUCKET, A HEDULE ECK VALVES. SE EDULE WASTE	T WATER TEMP	ERATURE
FD-1 FS-1 FCO-7	1 FLO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH MODEL "310 IM. LOCATE FIXT FIX FIX FIX	JAY R. JAY R. JAY R. JAY	S'R MC SMITH SMITH SMITH MOS O" THERMOS AND CABINE E BRA	DDEL NO. 2010C 3431 4020 FATIC MIXING T BELOW LAV	TOP TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON NICKEL BRON NICKEL BRON		JLE JLE ANDAL PF DEEP AL ROVIDE 1 ANDAL PF AL STOP-S TION	ROOF, TRAP F JUMINUM SED /2 GRATE ROOF TOP. ESCH STRAINER-CHI	PRIMER. MENT BUCKET, A HEDULE ECK VALVES. SE EDULE		PERATURE TRAP SIZE 3" 4"
FD-1 FS-1 FCO-7	1 FLO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH MODEL "310 IM. LOCATE FIXT FIX FIX FIX FIX	JAY R. JAY R. JAY R. JAY R. IER VALVE VALVE URI VALVE DOR JRA DOR DRA	S'R MC	DDEL NO. 2010C 3431 4020 FATIC MIXING T BELOW LAV	TOP TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON NICKEL BRON NICKEL BRON		ATERS.	ROOF, TRAP F JUMINUM SED /2 GRATE ROOF TOP. ESTRAINER-CHI STRAINER-CHI HOT WATER 3/4" - -	PRIMER. MENT BUCKET, A IEDULE ECK VALVES. SE EDULE WASTE 3" 4" 4"	VENT 2" 2" 2"	PERATURE TRAP SIZE 3" 4" 4"
FD-1 FS-1 FCO-7	1 FLO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH MODEL "310 IM. LOCATE FIXT FIX FIX FIX	JAY R. JAY R. JAY R. JAY R. IER VALVE VALVE VALVE VALVE VALVE VALVE	S'R MC	DDEL NO. 2010C 3431 4020 FATIC MIXING T BELOW LAV	TOP TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON NICKEL BRON NICKEL BRON		JLE JLE ANDAL PF DEEP AL ROVIDE 1 ANDAL PF AL STOP-S TION VATER	ROOF, TRAP F JUMINUM SED /2 GRATE ROOF TOP. ESCH STRAINER-CHI ISCHI HOT WATER 3/4" -	PRIMER. MENT BUCKET, A IEDULE ECK VALVES. SE EDULE WASTE 3" 4"	T WATER TEMP	PERATURE TRAP SIZE 3" 4"
FD-1 FS-1 FCO-7	1 FLO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH MODEL "310 M. LOCATE FIXT FIX MOR 4" FLO 4" FLO 4" FLO 4" FLO 4" FLO UI	JAY R. JAY R. JAY R. JAY R. IER URI VALVE VALVE URI VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE VALVE	S'R MC	DDEL NO. 2010C 3431 4020 FATIC MIXING T BELOW LAV	TOP TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON NICKEL BRON NICKEL BRON		JLE JLE ANDAL PF DEEP AL ROVIDE 1 ANDAL PF AL STOP-S TION VATER	ROOF, TRAP F JUMINUM SED /2 GRATE ROOF TOP. ESCH STRAINER-CHI JSCHI HOT WATER 3/4" - - 1/2" - -	PRIMER. MENT BUCKET, A HEDULE ECK VALVES. SE EDULE WASTE 3" 4" 4" 4" 2" 4"	ET WATER TEMP VENT 2" 2" 2" 2" 1-1/2" 2" 2" 2"	PERATURE TRAP SIZE 3" 4" 4" 2"
FD-1 FS-1 FCO-7	1 FLO	OR DRAIN OR SINK LOOR EANOUT	N 4" 4" 4" TH MODEL "310 M. LOCATE FIXT FIX MOR 4" FLO 4" FLO 4" FLO 4" FLO 4" FLO UI	JAY R. JAY R. JAY R. JAY R. JAY R. IER URI VALVE VALVE V URI VALVE V URI VALVE V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V URI V U URI V U URI V URI V URI V URI V URI V URI V V U URI V U URI V URI V URI V U U U URI V U U U U U U U U U U U U U U U U U U	S'R MC	DDEL NO.	I SCH TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON NICKEL BRON SVALVE WITH ATORY.	ATER HE EDL CKEL V V VZE V IG V INTEGRA INTEGRA COLD V 3/4 - - 1/2 1-1/ 3/4 1/2	JLE JLE ANDAL PF ANDAL PF ANDAL PF ANDAL PF AL STOP-S TION VATER	ROOF, TRAP F JUMINUM SED /2 GRATE ROOF TOP. ESCH STRAINER-CHI HOT WATER 3/4" - - 1/2" - - 1/2"	PRIMER. MENT BUCKET, A HEDULE ECK VALVES. SE EDULE WASTE 3" 4" 4" 4" 2" 4" 2" 2"	VENT 2" 2" 2" 2" 1-1/2" 2"	PERATURE TRAP SIZE 3" 4" 4"
FD-1 FS-1 FCO-1	1 FLO		N 4" 4" 4" TH MODEL "310 M. LOCATE FIXT FIX MOR 4" FLO 4" FLO 4" FLO 4" FLO 4" FLO UI	JAY R. JAY R. JAY R. JAY R. IER JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R. JAY R	S'R MC	DDEL NO.	I SCH TOP POLISHED NIC BRONZE CAST IRON NICKEL BRON NICKEL BRON SVALVE WITH ATORY.	ATER HE EDL CKEL V V VZE V IG V INTEGRA INTEGRA COLD V 3/4 - - 1/2 1-1/ 3/4 1/2	JLE JLE ANDAL PF ANDAL PF ANDAL PF ANDAL PF AL STOP-S TION VATER	ROOF, TRAP F JUMINUM SED /2 GRATE ROOF TOP. ESCH STRAINER-CHI JSCHI HOT WATER 3/4" - - 1/2" - -	PRIMER. MENT BUCKET, A HEDULE ECK VALVES. SE EDULE WASTE 3" 4" 4" 4" 2" 4" 2" 2"	ET WATER TEMP VENT 2" 2" 2" 2" 1-1/2" 2" 2" 2"	PERATURE TRAP SIZE 3" 4" 4" 2"

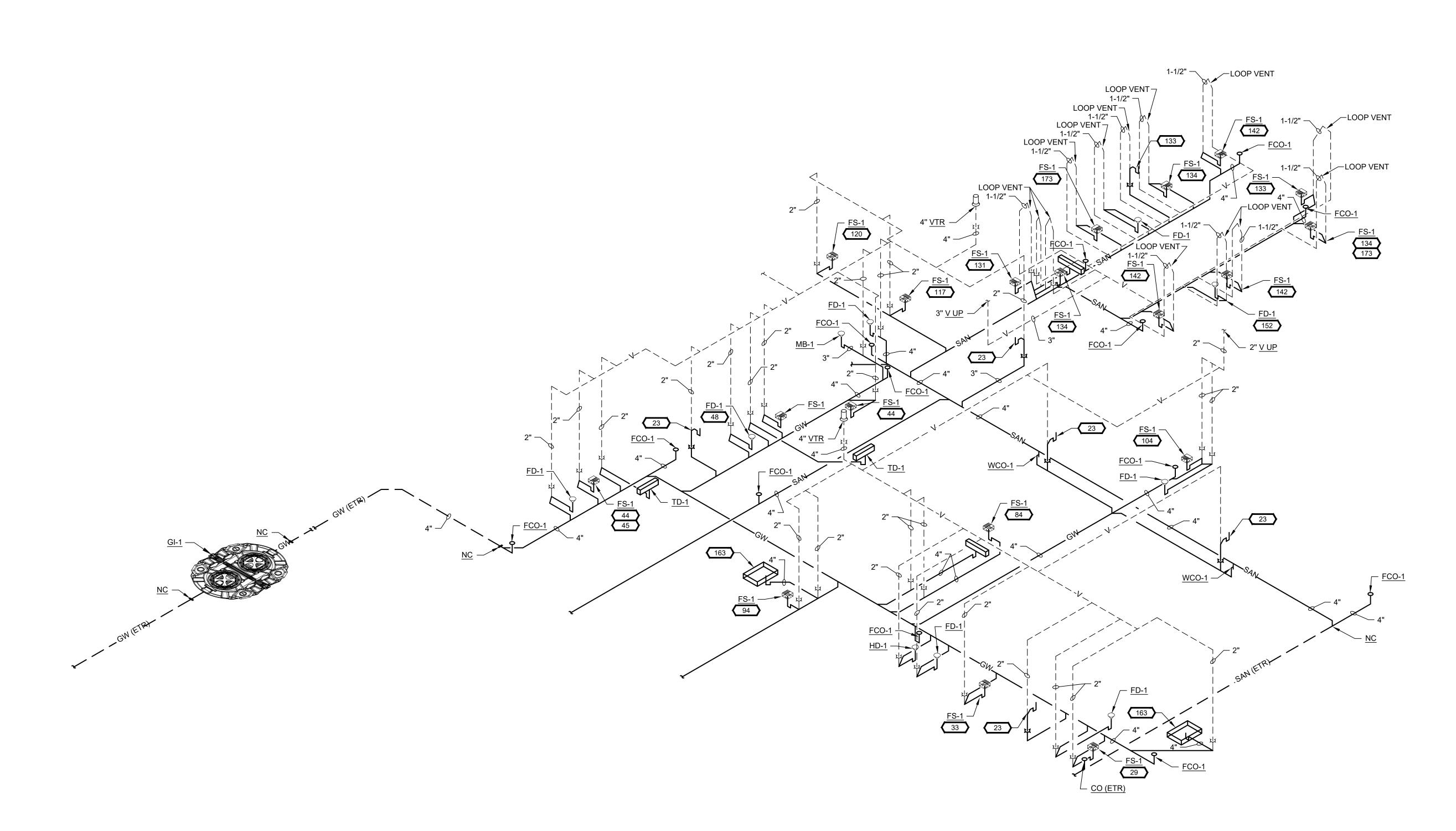
PLU	MBIN	GF	FIXTL	JRE	SCH	-IE	DUL	E				-				
FINISH	TRAI	P	MOUNTIN	IG	CARRIEF	र	SUP	PLY F	ITTING	STO	OP VALVE			REM	ARKS	
			WALL HUI	NG							CGUIRE O. 2169	REFER TO		CTURAL I	DRAWINGS FOR	2
			FLOOR MOUNTE								CGUIRE O. 2169	REFER TO		CTURAL I	DRAWINGS FOR	2
			WALL HU		JR SMITI O. 637-M					IN	TEGRAL	REFER TO A		CTURAL I	DRAWINGS FOR	2
			COUNTER	ГОР							CGUIRE #2167	REFER TO	-	CTURAL I	DRAWINGS FOR	2
			WALL HUI		JR SMITI 0700-M3						CGUIRE #2167	REFER TO		CTURAL I	DRAWINGS FOR	2
BRONZE WITH SS FACE			WALL MOUNTED A.F.G.	18"	NONE			_			-	DRAINING (INTEGRAL)	QUARTER /ACUUM I	TURN H BREAKEI	NTI-SIPHON, AU YDRANT, NON-F R. ALL BRONZE SOLDER INLET,	-REEZE INTERIOR
DURASTON FIBERGLAS		RAP	FLOOR MOUNTE		NONE		CHICAC	GO FA	UCET 897	IN	TEGRAL	MOUNT SU VACUUM B		「ING 36" /	ABOVE FLOOR.	INTEGRAL
		I														
						V	VAT	ER	SO	TE	NER					
MARK M.	IANUFACTU	RER	MODEL NO.	EXCH/ CAPA KGR @ DOSAGE	CITY. SALT		SERVICE NTINUOUS 1 @ 15 PSI		V RATES PEAK PM @ 25	(SOFTENER TANK SIZE (DIA. IN.)	BRINE TANK SIZE (DIA. IN.)		REMARK	S
WS-1	CULLIGAN	1	HE-210	240 @) 105		28.0		37.4		7	51	24	SEE BE	LOW.	
2. WATER S	E SPECIFIED SOFTENER S ED BY OWNE	SHALL	BE INSTALL	ED AND S			R THE MAN	NUFAC	TURER'S	SPECIFI	CATIONS.					
							PUM		SCH	FDI	ЛF					
			MANUFAC	MODEL			н	EAD			ELECTRIC	CAL				
DESIG'N	SERVICE		TURER	NO.	TYPE		י אסי	EET)	TEMP.	MOTOF HP		GE RPM			REMARKS	
RCP-1 R	HOT WATE RECIRCULAT		TACO	0011	IN-LINE		5	10	110°F	1/8	1Ø-115	5 3250			NG O.D.P. MOTO R, REMITE SEAL	
					WA	TE	ER H	EA	TEF	RSC	HED	DULE				
DESIG'N	TY	ΈE	MANU	FACTURE	ER MO	DEL N	NO.	S INPU MBH		ELECT	RICAL FLA	RECOVI @100° F (GPM	RISE		REMARKS	
WH-1	STORAC	GE TAN	NK A.C	D. SMITH	BTH	-199 I	MXI	199	12	20/1	5.0	235	SEE	E BELOW		
WH-2	STORAC	GE TAN	NK A.C	D. SMITH	BTH	-199 I	MXI	199	12	20/1	5.0	235	SEE	E BELOW		
	CID NEUTRA ER SC-201-1											OL MODEL# S	ST-12 EXP	PANSION	TANK, AND SY	STEM
				1		[DRA	IN	SCF	IED	ULE					
DESIGNAT	OR T	YPE	SIZE	MF	G'R	MOI	DEL NO.		TOP				RI	EMARKS		
FD-1	FLOOF	R DRAI	IN 4"	JAY R.	SMITH	2	2010C	POL	ISHED N BRONZE		VANDAL P	ROOF, TRAP	PRIMER.			
FS-1	FLOO	R SIN	К 4"	JAY R.	SMITH		3431		CAST IRC		8" DEEP AI PROVIDE ´		DIMENT B	UCKET,	4" DEEP SEAL. '	P' TRAP,
FCO-1		OOR ANOUT	г 4"	JAY R.	SMITH		4020	NIC	CKEL BRO	NZE	VANDAL P	ROOF TOP.				
					MO	ST	ΑΤΙΟ		11XIN	JG \	/ALV	E SC	HED	ULF		
	PROVIDE LA FOR 105°F N		R MODEL "31	0" OR "41	0" THER	MOST	ΓΑΤΙΟ ΜΙΧΙ	ING VA							T WATER TEMF	PERATURE
			FIXT			2Δ						N SCH				
											WATER	HOT WATER			VENT	TRAP SIZE
			МС	OP BASIN						3	3/4"	3/4"		3"	2"	3"
			4" FL	OOR DRA							-	-		4" 4"	2" 2"	4" 4"
				OOR CIN	ĸ								1	•	<u>د</u>	, ,
			4" FL	_OOR SIN NK/ LAVA						1	/2"	1/2"		2"	1-1/2"	2"
			4" FL HAND SI WATER	NK/ LAVA CLOSET	TORY					1-	1/4"	1/2" -		4"	2"	2"
			4" FL HAND SI WATER	NK/ LAVA	TORY					1- 3		1/2" - - 1/2"				2" - - 2"
			4" FL HAND SI WATER	NK/ LAVA CLOSET JRINAL SINK	TORY (F.V.)					1- 3 1	1/4" 3/4" /2"	- - 1/2"		4" 2"	2" 2"	
	BOI		4" FL HAND SI WATER	NK/ LAVA CLOSET JRINAL SINK PL	TORY (F.V.) UM		NG E	Q	JIPN	1- 3 1	1/4" 3/4" /2"	-		4" 2"	2" 2"	

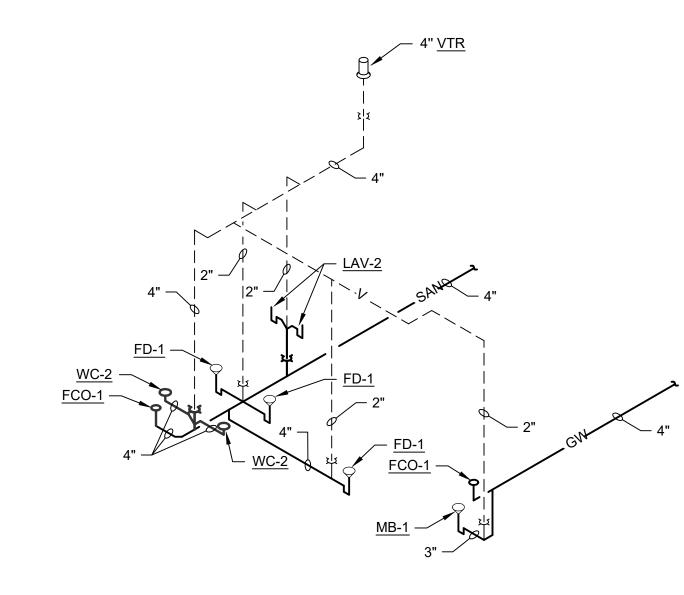
PLU	JM	BING	FIX	ΤU	RE	SC		DUL	-E										
FINISH	4	TRAP	MOU	JNTIN	G	CARRIE	R	SU	PPLY F	ITTING		STOP VALVI	Έ			REM	IARKS		
			WALL	L HUN	G							MCGUIRE NO. 2169		REFER TO SPECIFICA		CTURAL	DRAWINGS FOR	R	
				.OOR JNTEE	>							MCGUIRE NO. 2169		REFER TO SPECIFICA		CTURAL	DRAWINGS FOR	8	
			WALL	L HUN		JR SMIT O. 637-N						INTEGRAL		REFER TO SPECIFICA		CHITECTURAL DRAWINGS FOR NS.			
			COUN	ITERT	OP							MCGUIRE #2167		REFER TO SPECIFICA		ITECTURAL DRAWINGS FOR			
			WALL	L HUN		JR SMIT 0700-M3						MCGUIRE #2167		REFER TO SPECIFICA		CHITECTURAL DRAWINGS FOR NS.			
BRONZ WITH S FACE	s	-	MOUN	/ALL NTED 1 .F.G.	18"	NONE			-			-		DRAINING INTEGRAL	QUARTER VACUUM I	TURN H BREAKE	NTI-SIPHON, AU IYDRANT, NON-F R. ALL BRONZE SOLDER INLET,	FREEZE INTERIOR	
DURAST(FIBERGL/		3" 'P' TRAP		.oor Jntee	0	NONE		CHICA	GO FA	UCET 89	97	INTEGRAL		MOUNT SU VACUUM B		TING 36"	ABOVE FLOOR.	INTEGRAL	
							V	/AT	ER	SO	FT	ENEF	2						
MARK	MAN	UFACTURER	MODEL	_ NO.	EXCHA CAPA KGR @ DOSAGE	CITY. SALT	CON	SERVIC	E FLOV		3	RESIN QUANTITY	Y T	OFTENER ANK SIZE (DIA. IN.)	BRINE TANK SIZE (DIA. IN.)		REMARK	S	
WS-1	С	ULLIGAN	HE-2	10	240 @	, ,		28.0		37.4	5 - 51)	7		51	24	SEE BE	ELOW.		
2. WATER	R SOF	PECIFIED EQU TENER SHAL BY OWNER, R	L BE INS	TALLE	ED AND S			THE MA	NUFAC	TURER'	S SPE	CIFICATIONS	S.						
							F	PUN	/Ρ (SCH	ΗE	DULE							
DESIG'N		SERVICE	MANUF TURE		MODEL NO.	TYPE			HEAD FEET)		D		RICA				REMARKS		
RCP-1		OT WATER IRCULATION	TACC	0	O011 IN-LINE 5 10 110°F 1/8 1			115	3250			ING O.D.P. MOTO R, REMITE SEAL							
						WA	TF	R F	IFA		RS	SCHE	DI	UIF					
DESIG	N	TYPE	M	/ANUF	ACTURE			GA	S INPU			ECTRICAL		RECOV			REMARKS		
							I-199 N		MBH 199		DLTAG	E FLA 5.0		(GPN 235	/)	E BELOW			
WH-1 WH-2		STORAGE T			. SMITH		I-199 IV		199		120/1	5.0		235					
PROVIDE				T, ASN	/IE APPR		EMPER		& PRES	SSURE F	RELIEF	- VALVE, AM1	TROI				TANK, AND SYS	STEM	
								DRA	IN	SCI	HE	DULE							
DESIGN	ATOR	TYPE	s	SIZE	MF	G'R		DEL NO.		ТОР					RF	EMARKS			
FD-	1	FLOOR DR	AIN	4"	JAY R.	SMITH	20	010C		BRON	-			OOF, TRAF					
FS-'	1	FLOOR SI		4"	JAY R.	SMITH	3	3431		CAST IF	RON	8" DEEP PROVIDI			DIMENT B	UCKET,	4" DEEP SEAL. 'I	P' IRAP,	
FCO	-1	CLEANO		4"	JAY R.	SMITH	4	.020	NI	CKEL BF	RONZE	E VANDAL	_ PR(OOF TOP.					
				Tŀ	IER	MO	ST		CN	<u>/IXI</u>	NC	G VAL	VE	<u>E SC</u>	HED	ULE	_		
TMV-		OVIDE LAWLI R 105°F MAXI									TH IN	TEGRAL STO	P-ST	TRAINER-C	HECK VAL	VES. SE	ET WATER TEMF	PERATURE	
			FL	XT	URI	E BI	RA	NC	H C	ON	NE	CTIO	N	SCH	IEDL	JLE			
				FL	XTURE						С	OLD WATER	ŀ	HOT WATE	R WA	STE	VENT	TRAP SIZE	
			2		P BASIN							3/4" -		3/4"		3" 4"	2" 2"	3" 4"	
				4" FL	OOR SIN	К						-		-		4"	2"	4"	
					IK/ LAVA CLOSET							1/2" 1-1/4"		1/2" -		2" 4"	1-1/2" 2"	-	
					RINAL SINK							3/4" 1/2"		- 1/2"		2" 2"	2" 1-1/2"	- 2"	
										חוו						_	I ⁻ I/Z		
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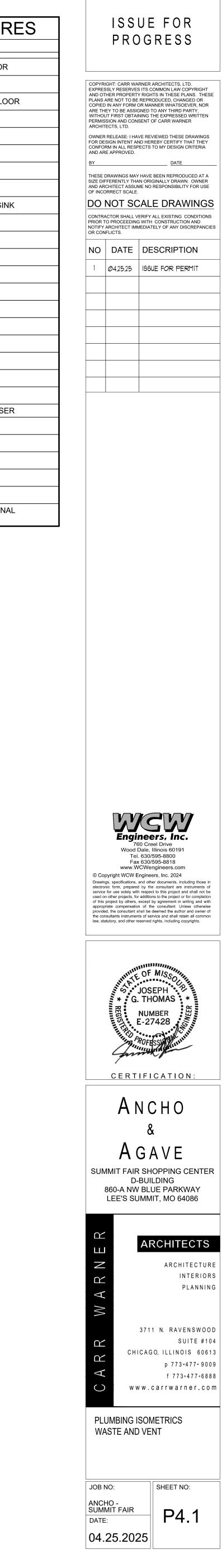


PLUMBING ISOMETRIC EMPLOYEE RESTROOM & MECH. ROOM, -WASTE AND VENT P4.1 SCALE: N.T.S



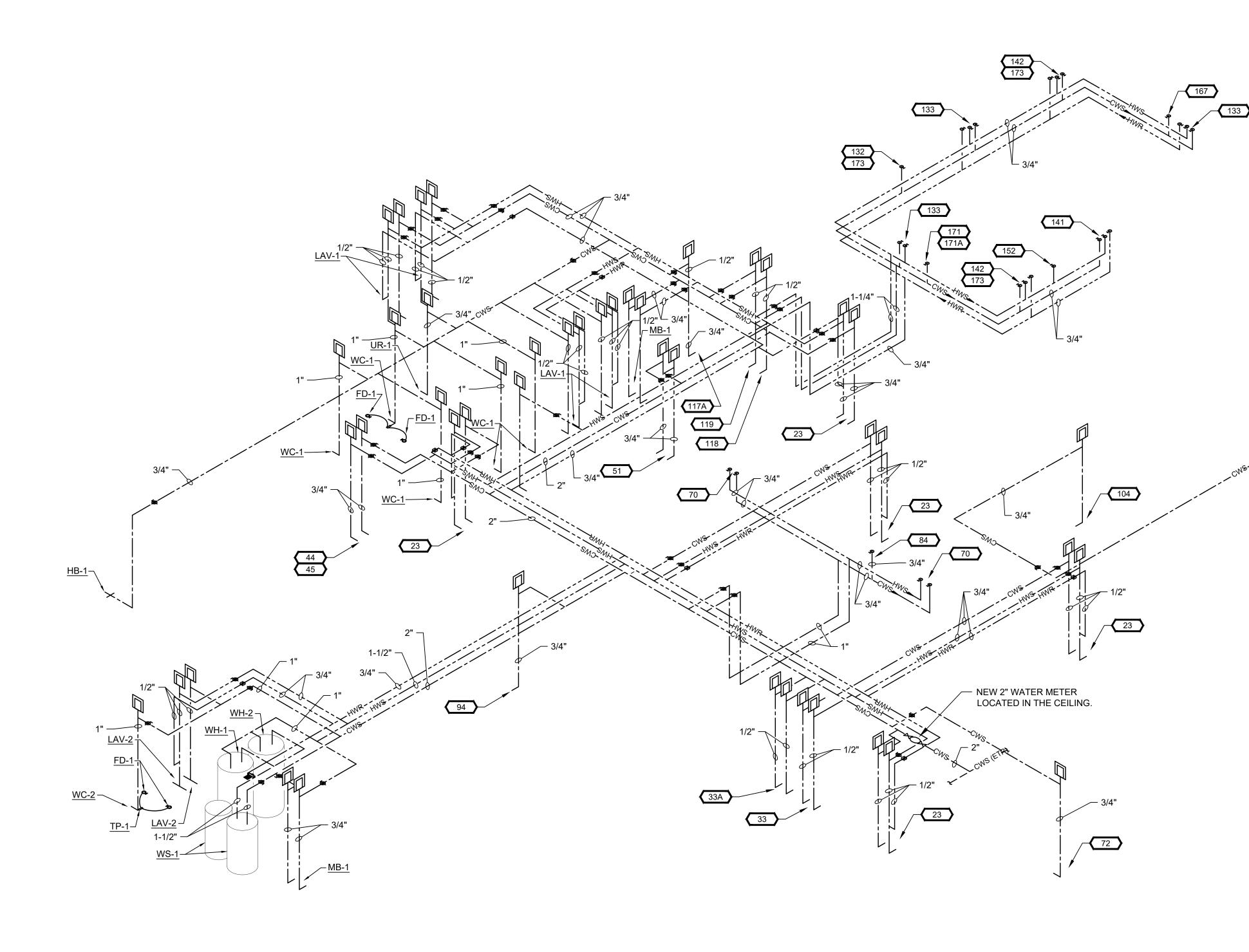
B	AR FIXTURES
TAG	FIXTURE
131	UNDERBAR ICE CHEST
133	UNDERBAR DUMPSINKS
134	COMB. ICE CHEST W/SPEED RAIL
136	UNDERBAR DRY STORAGE
140	DRAINBOARD W/GLASS STORAGE
142	UNDERBAR HANDSINK
145	CORNER FILLER & DRAINBOARD
152	GLASSWASHER
164	S/S CABINT
167	DRIP PAN W/GLASS RINSER
169	FAUCET
170	DRAINER
171	WATER FILLER
173	DRINK RAILS
SEE KITCHEN	DRAWINGS FOR ADDITIONAL

KIT	CHEN FIXTUF
TAG	FIXTURE
	BEER COOLER - NO FLOOR
6	SODA RACK
9A	WALK-IN COOLER - NO FLO
23	HAND SINK
23A	HAND SINK
33	PREP TABLES W/SINK
33A	PREP TABLES W/SINK
39	MOP SINK W/FAUCET
44	THREE COMPARTMENT SIN
45	PRE-RINSE SPRAY ARM
48	BOOSTER HEATER
49	WAREWASHER
51	SOILED DISHTABLE
58	FILL FAUCET
65	SILVER SINK
66	DUMP SINK
72	TILT SKILLET
84	HOT FOOD TABLE
94	ICE MAKER W/BIN
104	HOT FOOD TABLE
117	CHILLED WATER DISPENSE
(117A)	DROP-IN ICE BIN
118	COFFEE BREWER
119	ICED TEA BREWER
120	SODA & ICE BREWER
163	FLOOR TROUGH
EE KITCHEN	DRAWINGS FOR ADDITION
-	



<u>...</u>

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PLUMBING ISOMETRIC - WATER 1 P4.2 SCALE: N.T.S

TAG	FIXTURE
131	UNDERBAR ICE CHEST
133	UNDERBAR DUMPSINKS
134	COMB. ICE CHEST W/SPEED RAIL
136	UNDERBAR DRY STORAGE
140	DRAINBOARD W/GLASS STORAGE
142	UNDERBAR HANDSINK
145	CORNER FILLER & DRAINBOARD
152	GLASSWASHER
164	S/S CABINT
167	DRIP PAN W/GLASS RINSER
169	FAUCET
170	DRAINER
171	WATER FILLER
173	DRINK RAILS

3/4" -

	CHEN FIXTUF
TAG	FIXTURE
	BEER COOLER - NO FLOOR
6	SODA RACK
9A	WALK-IN COOLER - NO FLO
23	HAND SINK
23A	HAND SINK
33	PREP TABLES W/SINK
33A	PREP TABLES W/SINK
39	MOP SINK W/FAUCET
44	THREE COMPARTMENT SIN
45	PRE-RINSE SPRAY ARM
48	BOOSTER HEATER
49	WAREWASHER
51	SOILED DISHTABLE
58	FILL FAUCET
65	SILVER SINK
66	DUMP SINK
72	TILT SKILLET
84	HOT FOOD TABLE
94	ICE MAKER W/BIN
104	HOT FOOD TABLE
117	CHILLED WATER DISPENSE
117A	DROP-IN ICE BIN
118	COFFEE BREWER
119	ICED TEA BREWER
120	SODA & ICE BREWER
163	FLOOR TROUGH
SEE KITCHEN	DRAWINGS FOR ADDITION
	1

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LOOP VENT, ROUTE AS HIGH AS ¬ POSSIBLE TO A PEAK VENT RISE ABOVE BOTTOM-OF FIXTURE

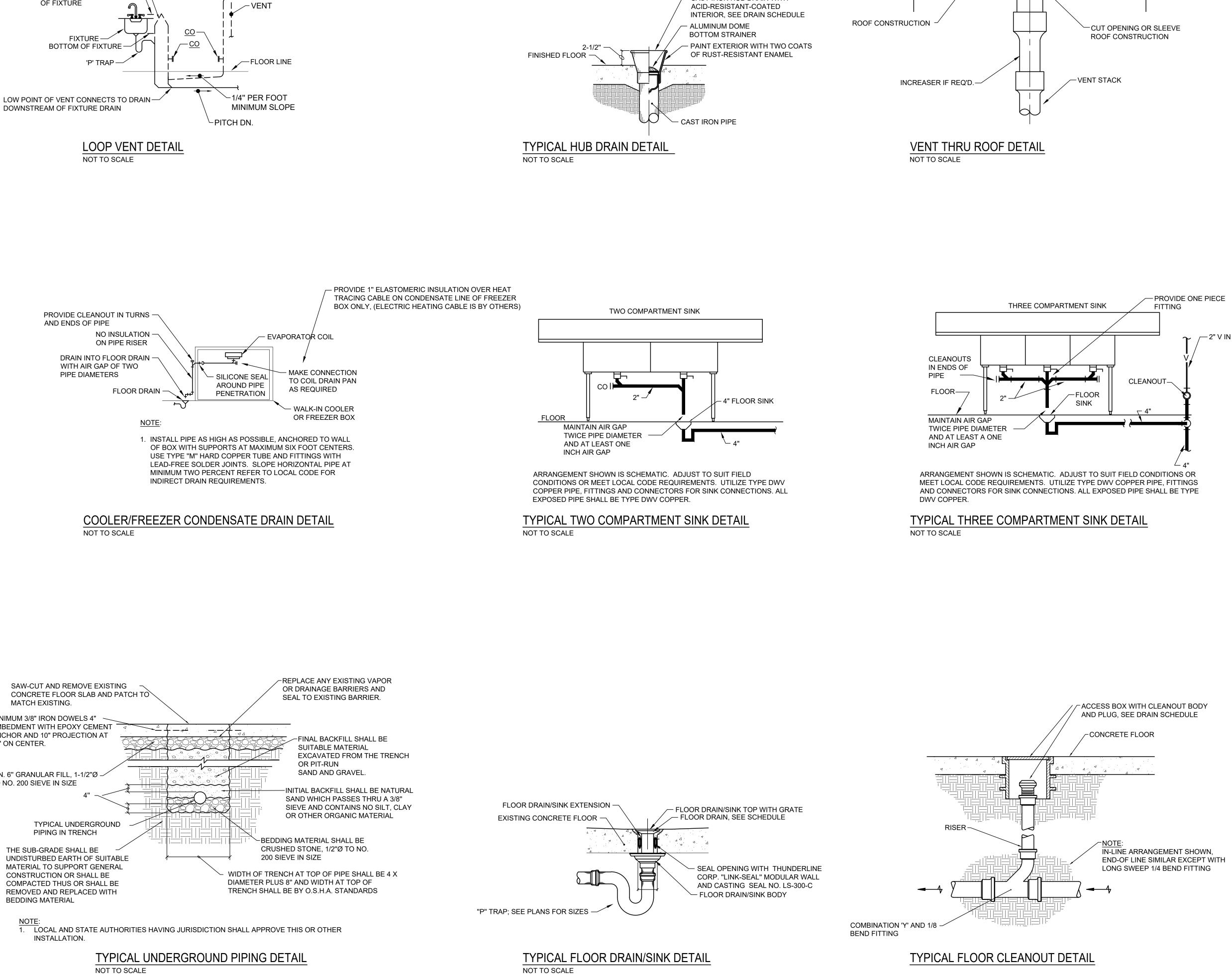
DOWNSTREAM OF FIXTURE DRAIN

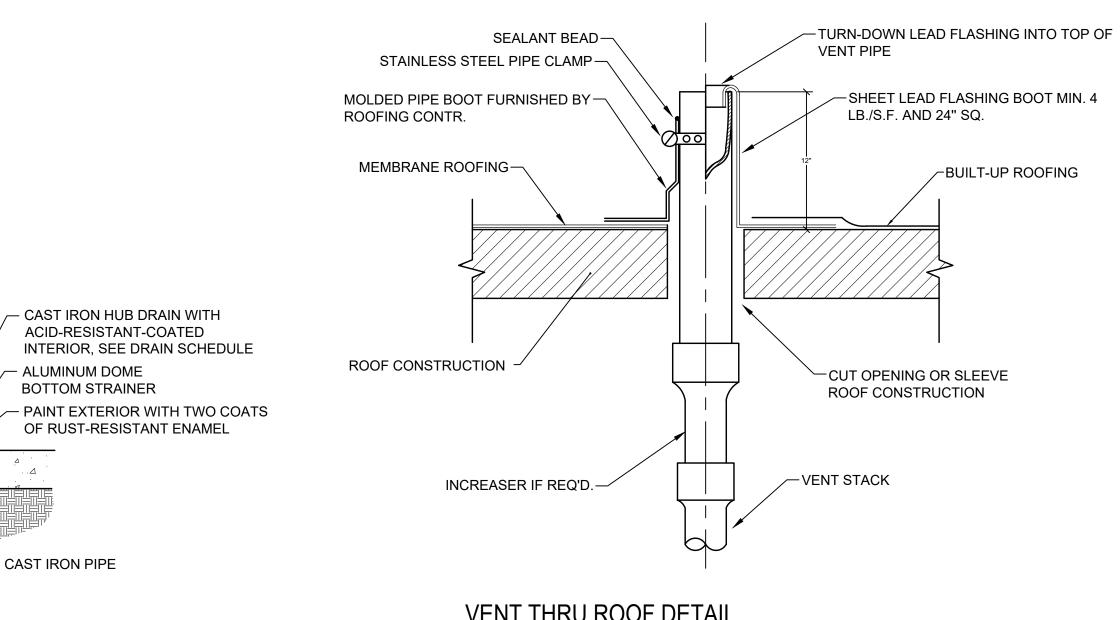
SAW-CUT AND REMOVE EXISTING MATCH EXISTING. MINIMUM 3/8" IRON DOWELS 4" EMBEDMENT WITH EPOXY CEMENT ANCHOR AND 10" PROJECTION AT 12" ON CENTER.

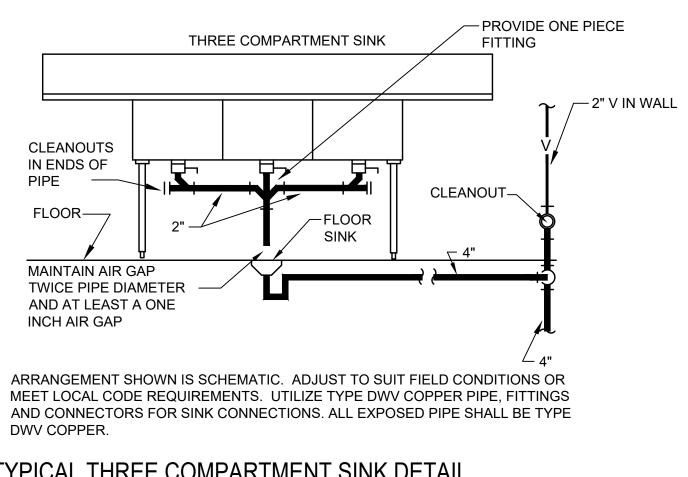
MIN. 6" GRANULAR FILL, 1-1/2"Ø -TO NO. 200 SIEVE IN SIZE

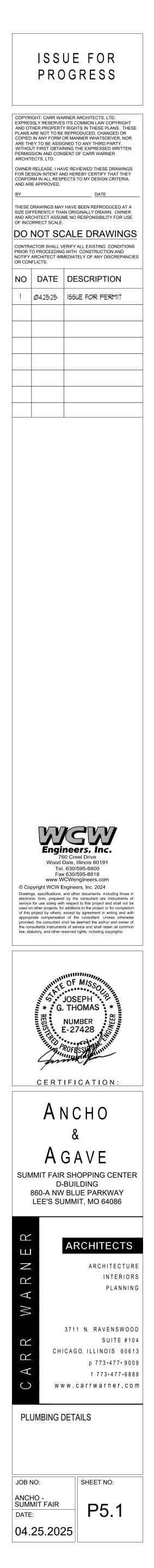
THE SUB-GRADE SHALL BE UNDISTURBED EARTH OF SUITABLE MATERIAL TO SUPPORT GENERAL CONSTRUCTION OR SHALL BE COMPACTED THUS OR SHALL BE REMOVED AND REPLACED WITH BEDDING MATERIAL

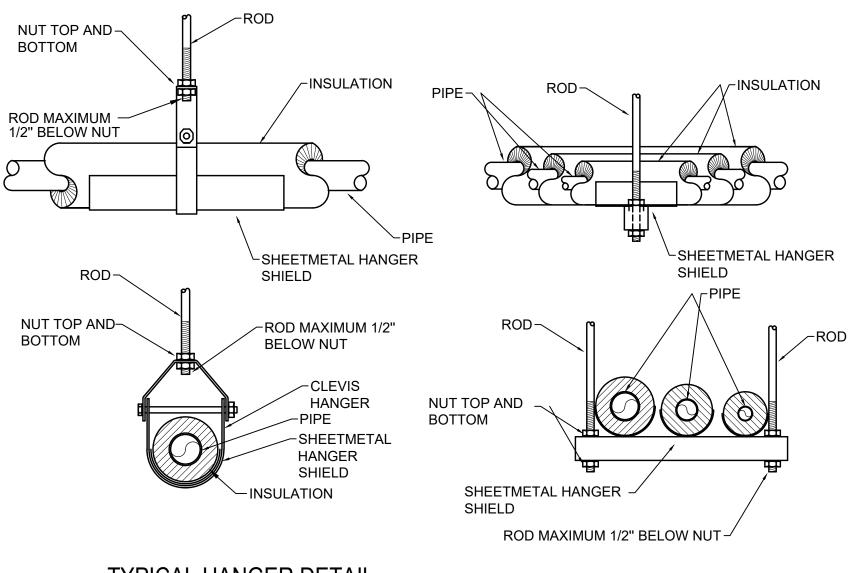
INSTALLATION.



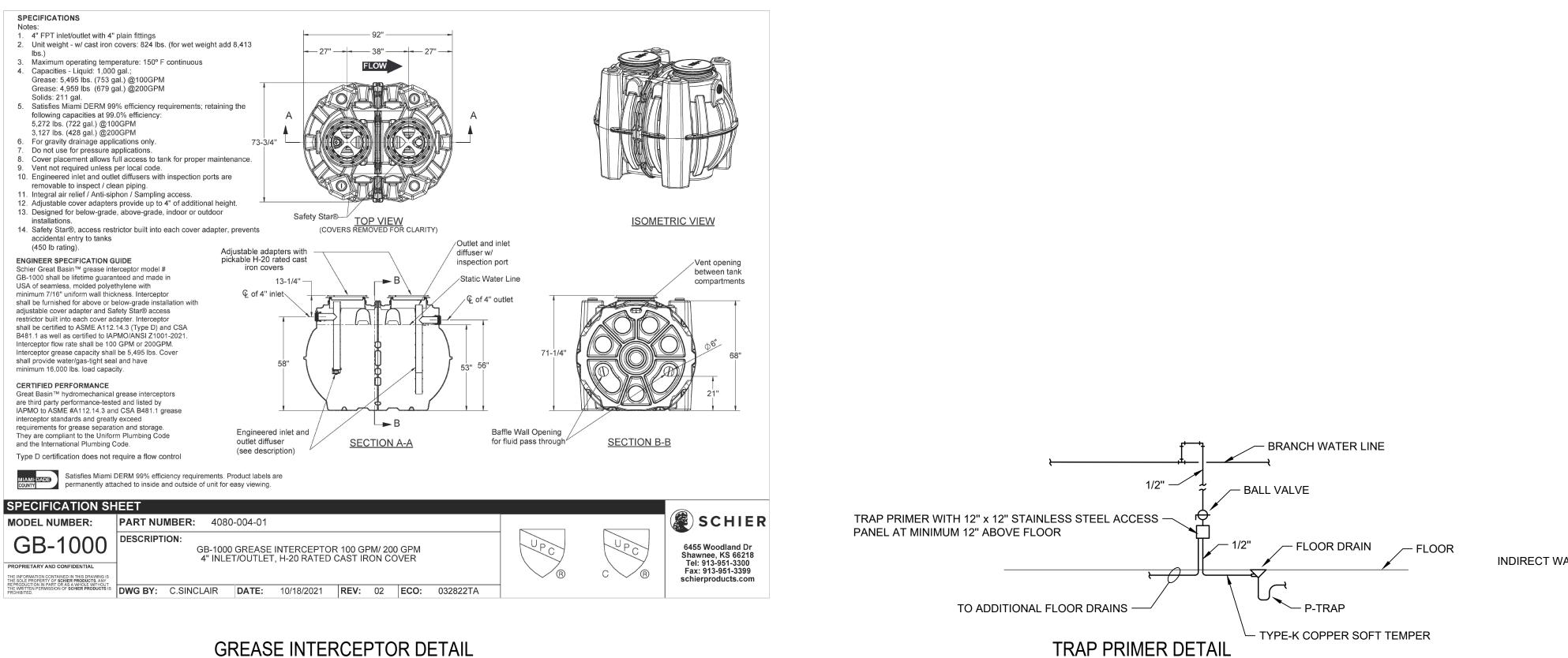




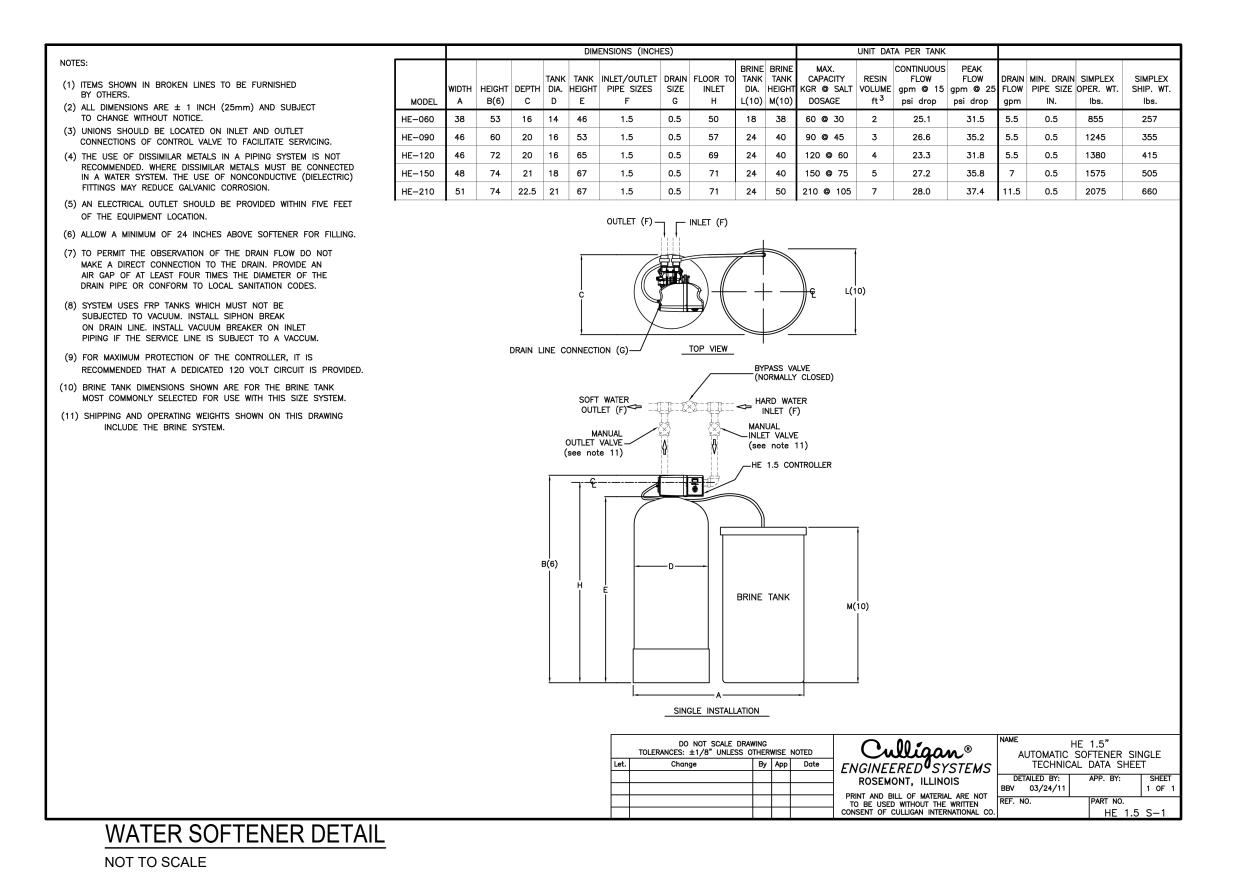


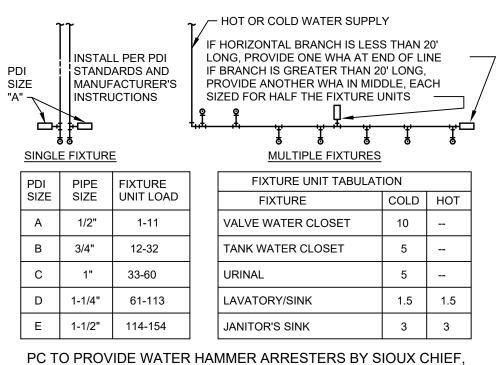


TYPICAL HANGER DETAIL



GREASE INTERCEPTOR DETAIL NOT TO SCALE

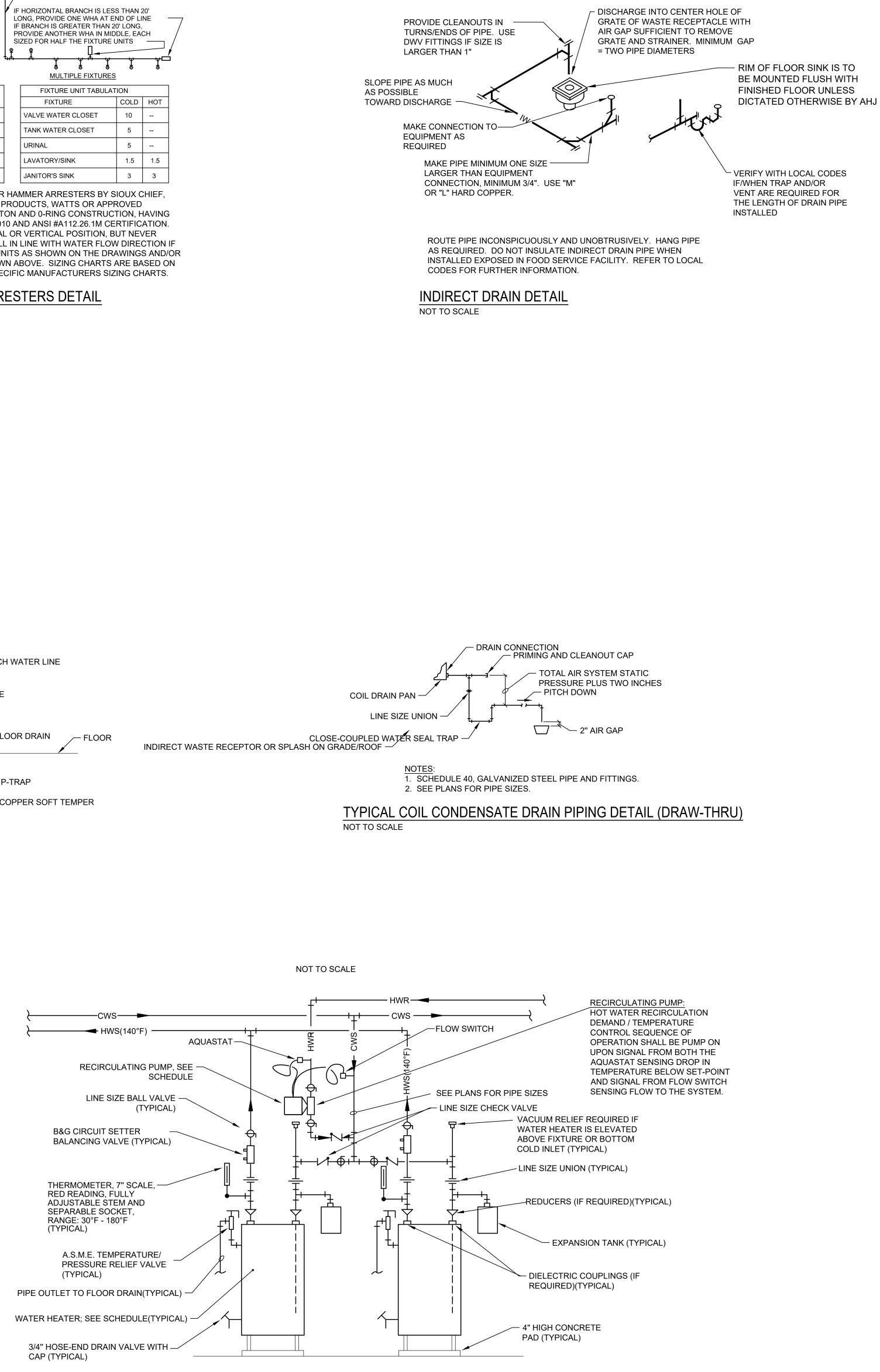




PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. SIZING CHARTS ARE BASED ON SIOUX CHIEF. USE SPECIFIC MANUFACTURERS SIZING CHARTS.

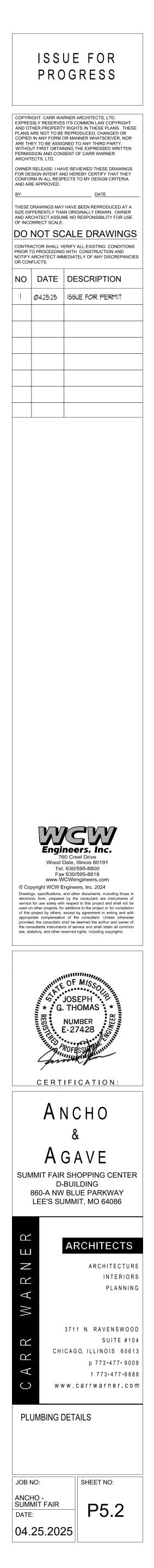
WATER HAMMER ARRESTERS DETAIL NOT TO SCALE

NOT TO SCALE



NOT TO SCALE

DOMESTIC WATER HEATER (2) PIPING DETAIL



SECTION 15060 PIPE, PIPE FITTINGS AND PIPE SPECIALTIES

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specification Sections, apply to work of this Section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.
- 1.02 DESCRIPTION OF WORK
- A. This part defines the pipe and fittings to be used for all services installed under this Division.
- B. Refer to the Drawing Legends and Symbol Schedules for definition of the designators used in the following Specification.
- 1.03 QUALITY ASSURANCE
- A. All materials and workmanship described herein shall be in accordance with the latest editions and addenda of the codes and standards listed below and all Federal, State, and local codes. Should there be any conflict between any code, standard, and/or specification, the more stringent shall govern. American National Standards Institute. 1. ANSI-
- 2. API -American Petroleum Institute,
- 3. ASME American Society of Mechanical Engineers,
- American Society for Testing and Materials, 4. ASTM
- 5. AWS-American Welding Society, 6. AWWA - American Water Works Association
- 7. MSS -Manufacturer Standardization Society of the Valve and Fitting Industry.
- 8. NFPA National Fire Protection Association, and 9.3-A -Sanitary Standards, International Association of Milk, Food and Environment Sanitarians, Inc.
- 1.04 SUBMITTALS
- A. Submit manufacturer's technical product data, including rated capacities of selected pipe and pipe fittings clearly indicated, weights (shipping, installed, and operating), furnished specialties, and accessories.
- 1.05 PRODUCT DELIVERY, STORAGE AND HANDLING
- A. Handle pipe, pipe fittings, and piping accessories carefully to prevent damage, breaking, denting and scoring
- B. Do not install damaged pipe, pipe fittings, and piping accessories; replace with new.
- C. Store pipe, pipe fittings, and piping accessories in clean dry place. Protect from weather, dirt, water construction debris, and physical damage.
- PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Subject to compliance with requirements, provide pipes, pipe fittings, and piping accessories from qualified manufacturer with products that are in compliance with Codes. Standards, and these Specifications.
- 2.02 PIPE AND FITTINGS RELATED TO PLUMBING PIPING
- A. Domestic Water Distribution:
- 1. Piping shall be type 'L' hard temper copper tubing made up with wrought copper fittings using 95-5 (LEAD-FREE) solder. 2. Piping under floor shall be Type 'K' soft temper copper tubing with flare fitting ioints
- B. Storm and Sanitary Sewer: Below grades inside building. 1. Piping shall be service weight cast iron soil pipe, ASTM A74-72; with lead and
- oakum ioints. 2. Preformed joints may be used if acceptable to the local authorities having iurisdiction.
- 3. Piping and fittings may be plastic DWV schedule 40 PVC using primer and solvent cement joints, foam core piping is not acceptable, at Contractor's option if acceptable to local authorities having jurisdiction.
- C. Storm and Sanitary: Above grade inside building.
- 1. 2-1/2" and larger: Piping shall be service weight cast iron soil pipe and fittings, ASTM A74-72, with lead and oakum joints. 2. 2" and smaller: Piping shall be Schedule 40 galvanized pipe with black cast iron drainage fittings, or Type M copper tubing made up with wrought copper fittings
- and solder joints. 3. NO-HUB joints may used if acceptable to the local Authorities having jurisdiction. 4. Piping and fittings may be plastic DWV schedule 40 PVC using primer and solvent cement joints, foam core piping is not acceptable, at Contractor's option if acceptable to local authorities having jurisdiction.
- 2.03 PIPE AND FITTINGS RELATED TO MECHANICAL PIPING
- A.Gas Piping:
- 1. Gas piping above the floor shall be black, Schedule 40, ASTM A53 steel pipe. Fittings shall be black, malleable iron for piping 2" and smaller and welding fittings for piping 2-1/2" and larger.
- 2. Gas piping below grade shall be black, Schedule 80, ASTM A53, all welded construction, wrapped with asphalt impregnated Kraft paper. Finish joints with Bitumastic #50 and paper.
- 3. Piping encased in the concrete floor slab shall be Type 'K' hard copper with wrought copper fittings made up with 95-5 solder.
- B. Refrigerant Piping:
- 1. Piping shall be type 'K' or 'L' hard copper. Fittings shall be wrought copper. 2. All joints shall be brazed.
- C.Condensate Drain Piping:

1. Piping shall be Schedule 40, galvanized steel or type 'M' hard copper pipe and fittings for interior use. 2. Piping shall be Schedule 40 PVC plastic pipe and fittings for exterior use.

- 2.04 SUPPORTS
- A.Contractor shall furnish and install all angles, channels, plates, or beams required for the support of the equipment of each Section, whether shown on the Drawings or not.
- B. Furnish and install all rods, auxiliary structural steel frames, attachments, brackets and platforms required for support of equipment from overhead construction for the respective Section.
- C. Vertical pipe risers shall be anchored midway of their height, and shall be supported at each floor by 1-1/2" x 1/4" bar clamps attached to pipes and resting on the floor construction.
- D.Horizontal piping shall be supported by adjustable, wrought, clevis type hangers, Fee & Mason, Elcen, or Crawford. Where parallel pipes are installed at the same level, provide trapeze hangers; the various trades shall cooperate in the joint use of such hangers. Pipe hangers shall be of size to suit pipe covering protection saddles.

rod sizes shall be as follows:

Pipe Size	Maximum
1/2"	6'-0" and a
3/4", 1"	7'-0" and a
1-1/4", 1-1/2", 2"	9'-0" and a
2-1/2", 3"	10'-0" and a
4", 6"	14'-0" and a
8", 10", 12"	16'-0" and a

nut. All-threaded rod shall be galvanized.

2.05 VALVES

- hereinafter specified.
- for the service.
- each fixture.

PART 3 - EXECUTION

- 3.01 ARRANGEMENT AND ALIGNMENT

- C.Run piping in wall chases, pipe shafts, hung ceilings, recesses, etc., where until testing is completed.
- expansion and drainage.
- maintenance.
- 3.02 PIPE CLEARANCES
- pipe expansion and the like.
- 3.03 PIPING EXPANSION
- structural members and the like when they heat up or cool.

- 3.04 LOCATION OF VALVES, ETC.

sliding supports in place.

- wheels or extension stems.
- specifically shown otherwise.
- 3.05 DRAINAGE AND VENTING
- prevent deflection of the piping sufficient to pocket the lines.
- 3.06 FLUSHING AND TESTING
- shall be opened and the systems proved to be drainable.
- B. The new equipment shall be flushed independently from their piping systems. Do not flush piping system thru the equipment. Do not use system pumps until systems are flushed clean.
- greater, for one (1) hour.

E. Pipes shall be supported only from the structural members of the building. They shall be supported at such intervals as will prevent sagging, and so that excessive loads will not be placed upon any one support. Spacing and

Maximum Spacing	Minimum Rod Size
6'-0" and at all turns	3/8"
7'-0" and at all turns	3/8"
9'-0" and at all turns	3/8"
10'-0" and at all turns	1/2"
14'-0" and at all turns	5/8"
16'-0" and at all turns	3/4"

F. The rod supporting the hanger shall be no longer than 1/2" below the lower

A. All connections shall be properly valved: Install valves in the supply, return, drain, vent, and all other locations as may be necessary to shut off a portion of a system whether shown on the Drawings or not, and specifically where

B. All valves shall comply with the Schedule or Legend on the Drawings. Where valves are not scheduled or shown in the legend, they shall be rated

C. Any domestic hot water supply or cold water supply serving two or more fixtures shall be separately valved in addition to the shut off valve required at

D.Make provisions for draining all low points of all piping systems whether indicated on the Drawings or not, using a globe valve and iron pipe thread to hose thread adapter with cap. Drains shall not be less than 3/4".

A. All piping shall be arranged and aligned in accordance with the Drawings. Elevations as given must be held. Floor elevations where given are to high points of floor. Dimensions must be held as closely as possible. All dimensions are to be field checked for accuracy before pipe is fabricated.

B. Install all piping straight and direct as possible, generally forming right angles with, or running parallel with, walls or adjacent piping. All piping shall be neatly spaced with risers and drops running plumb and true.

same are provided. Do not run service piping in floor slab fill unless specifically so noted on Drawings. Piping shall not be covered or closed

D.Drawings, in general, are made to scale. All dimensions shall be checked in the field by the Contractor before final connections are fabricated

E. Drawings for small piping are, in general, diagrammatic and the exact location of these lines shall be determined by the Contractor from field measurements taken by him. The actual arrangement of the small size piping, when erected, shall follow the general locations shown on the Drawings as far as practicable. The installation made in this way shall be neat in appearance and convenient to operate, and shall provide for proper

F. Installation of piping systems shall be coordinated with other work to avoid blocking building openings, light fixtures, etc. Piping shall not interfere with access to valves or equipment and shall not obstruct passageways. Piping shall be installed to provide working clearance for operation and

A.Install piping to provide minimum clearance of at least one inch between extreme projections of piping, flanges, fittings, valves, allowing for insulation,

A. Special attention shall be given to the installation of hot and cold lines which have an appreciable movement so that they will not hit other pipes,

B. Install anchors where shown on the Drawings and where required.

C.Guides are to be furnished on each side of all expansion loops, offsets, swing joints and expansion joints whether or not detailed on the Drawings.

D.Cold springing where required shall be done with anchors, hangers and

A.System components which require observation, operation or maintenance such as valves, gauges, controls, strainers, dirt pockets, cleanouts, unions and flanges, etc. - shall be located whenever possible so as to be readily accessible. They shall not be concealed in chases or above ceilings without provision for access. Valves which require frequent operation, or which may require emergency operation, and which are not accessible from normal working level, should be installed with appropriate provisions such as chain

B. Install all valves with stems in either an upright (preferred) or horizontal position. Control valves shall be installed with top works upward unless

C.Globe valves should be installed to seat against the direction of flow.

A. Where lines are purposely pitched for drainage or venting, an accurate grade shall be maintained. Lines shall be supported in such a manner as to

A. All new water piping systems shall be flushed using water. Low point drains

C.All closed water systems, operating under pressure, shall be tested, with water, at 1 1/2 times their operating pressure or 100 PSIG whichever is

- D. All open systems, sewers, etc., shall be tested with water, at a head of ten (10) feet above finished floor or grade, for four (4) hours.
- E. Refrigerant piping shall be flushed using environmentally approved agents that will be compatible with the refrigerant gas of the permanent system. Evacuate the system with a vacuum pump. Fill with required refrigerant gas to operating pressure and flame test all connections and joints.
- F. Gas piping shall be flushed using 100 PSIG compressed air. After flushing, the pipe system shall be tested in accordance to the means and methods as outlined in NFPA-54, latest edition. The test shall be applied for a minimum of one (1) hour, or longer as required by NFPA-54.
- G.All piping systems shall be tested. If leaks occur, the pipe or fitting shall be removed and replaced and the system retested.
- H.Piping shall not be backfilled or insulated until tested. Tests must be observed by the Architect/Engineer.

3.07 PIPE AND FITTINGS

- A. All pipe sizes referred to in these Sections should be interpreted as IPS (iron pipe size) unless specifically designated otherwise, such as "O.D." for tubina.
- B.Full lengths of pipe shall be used wherever possible. Short lengths of pipe with couplings will not be permitted.
- C.All pipe shall be cut to exact measurement to be installed without forcing (except where cold springing is specifically called for). After cutting, ends shall be reamed and cleaned to eliminate foreign matter.
- D.Cutting or other weakening of the building structure to facilitate piping installation will not be permitted.
- E. All pipe and fittings shall be marked by the manufacturer in accordance with the marking sections of the standards of the Standard Marking System for Valves, Fittings, Flanges and Unions of the Manufacturers Standardization Society of the Valve and Fittings Industry.
- F. Make all changes in size and direction of piping with fittings. Do not use bends, miter fittings, face or flush bushings, street elbows or field-fabricated reducers.
- G.Close nipples shall not be permitted; use only shoulder nipples. Shoulder nipple with shoulder length less than 1-1/2" shall be of heavy wall pipe: nipples having shoulder length of 1-1/2" or greater shall be of same schedule as connected pipe.
- H.Unless otherwise shown on the Drawings, install all supply piping to coils, pumps and other equipment including valves and strainers therein, at line size. If a reduction is required at a pump or control valve, the reducer shall be installed abutting the inlet and/or outlet of the pump or valve.

3.08 REDUCING FITTINGS

- A.Use eccentric reducing fittings or eccentric reducing couplings where required to prevent pocketing of liquid.
- B. Where eccentric reducers are used, the straight side should be installed on top for pump suction and hot water heating lines, and on the bottom for all other lines.

3.09 CONNECTIONS TO EQUIPMENT AND SPECIALTIES

- A.Piping systems shall be installed complete to equipment connections or terminal use points.
- B. Piping shall be fabricated carefully and accurately to meet connections on equipment without springing the pipe.
- C.Provide unions or flanges at all piping connections to coils, equipment, control valves, pressure reducing valves, steam traps, etc., at all locations as shown on the Drawings, and generally as required to disconnect piping from equipment and apparatus. Arrange connections so that the equipment served may be removed without disturbing the piping. Where valves serve to isolate equipment or specialties, the unions or flanges shall be located between valves and equipment or specialties. Unions shall generally be used for pipe sizes 2" and smaller and flanges for pipe sizes 2-1/2" and larger
- 3.10 DIELECTRIC CONNECTIONS

A. Provide dielectric fittings between ferrous and copper piping.

3.11 PIPE SLEEVES

- A.Provide all pipe openings through walls, partitions and slabs with sleeves having an internal diameter at least 1" larger than the outside diameter of the pipe for un-insulated lines or of the thickness of the insulation for insulated services.
- B.Install sleeves through interior walls and partitions flush with finished surfaces; sleeves through outside walls are to project 1/2" on outside of the finished wall. Floor sleeves are to project 2" above finished floors.
- C.Set sleeves in place before pouring concrete or securely fasten and grout in with cement.
- D. Sleeve Construction: 1. Interior Partitions: No. 22 gauge galvanized sheet steel with soldered
- 2. Interior Masonry Walls and Floors: Schedule 40 galvanized steel pipe.
- E. Interior Walls: Fill the space between outside of pipe or insulation and the inside of the sleeve or framed opening with fiber glass.
- F. Exterior Walls: Pack with oakum, seal with lead and watertight mastic or asphalt.
- G.Provide escutcheons on both sides of the penetration through the structure for all pipes exposed to view passing through walls, floors, ceilings, and partitions, whether or not insulated. For pipes passing through floors, escutcheons shall fit over the sleeves.
- H. Where sleeves are located in firewalls, the annular space around the piping shall be filled with material rated to match firewall rating.

3.12 SCREWED JOINTS

- A.Cut threads full and clean with sharp dies.
- B. Ream ends of pipe after threading and before assembly, to remove burrs.
- C.Leave not more than three pipe threads exposed at each connection.

D. Use joint sealant or tape on male threads only.

3.13 FLANGED JOINTS

A.Use steel bolts with square heads and hard-pressed steel hexagon nuts (threaded to the ANSI Standard Coarse Thread Series #2 fit).

B. All bolt holes are to be spot-faced.

- C.Flange dimensions and drilling are to conform to ANSI Standards for the pressure classes involved.
- D. Where a cast iron, flat-faced flange joins a steel flange, the steel flange must also have full, flat face. Use full face gasket.
- E. Mate raised-faced flanges to raised-face. Use ring type gasket.
- 3.14 SOLDERED AND BRAZED JOINTS
- A. All soldered and/or brazed joints shall be made in accordance with good practice. Tube ends shall be square cut and reamed, straightened and rounded with straightening tools as necessary.
- B. Fitting and tube surfaces shall be properly cleaned with steel wool or emery cloth and a suitable flux shall be used in accordance with manufacturer's recommendations. Uniform heat shall be applied by the use of blow torch, electric joint heater, or oxyacetylene torch. Adequate cooling time shall be allowed before washing or quenching. Appurtenances that are fragile or heat sensitive shall be protected against overheating, or the sensitive parts shall be removed during this application of heat.

C. All soldered joints shall be made using 95-5 solder.

- D. All brazed joints shall be made using Silfoss or silver solder.
- 3.15 COMPRESSION JOINTS
- A.Cut ends of pipe square
- B. Remove all burrs on inside and outside of pipe.
- C.Clean joint contact surfaces with steel wool before assembly.
- D. Assemble joint in accordance with manufacturer's instructions.

3.16 WELDING FITTINGS

- A.Butt-welding fittings shall be manufactured according to ANSI Standard B16.9 (latest edition). Mitered joint elbows and field fabricated reducers are not permitted
- B. Make all branch connections with tees, except that on steel piping, forged steel "Weldolets" as manufactured by Bonney Forge may be used where the branch pipe is not larger than one-half the size of the main pipe (nominal sizes).
- 3.17 WELDED JOINTS
- A.In general, all welding on carbon steel pipe and fittings shall be done by the Metal Arc Process.
- B. Welding operations shall conform to Chapter V, of the Code for Pressure Piping, ANSI B31.3, latest edition.
- C. Welders and welding procedures shall be certified where required by Section IX of the ASME Boiler and Pressure Vessel Code, latest edition.
- D. Tack welds used in assembly pipe, fittings, etc., shall be made by a qualified welder or shall be removed. Tack welds, which are not removed, shall be made with an electrode which is the same as or equivalent to the electrode to be used for the first pass. Tack welds must be thoroughly cleaned, ground smooth, carefully examined for cracks, and all cracks removed before additional metal may be deposited. No metal shall be tack-welded inside pipe for alignment purposes.
- 3.18 CAULKED JOINTS
- A. Joints in cast iron bell and spigot piping shall be firmly packed with oakum and shall be filled with pure lead, minimum 1" deep. Joint shall then be caulked.
- 3.19 PREFORMED JOINTS
- A.Where ASTM C425 joints are used, they shall be wiped clean and the solvent applied in accordance with ASTM procedures.
- 3.20 MECHANICAL JOINTS
- A.Clean spigot and bell with wire brush. Brush surfaces and gasket with soapy water. With gland and gasket in place on spigot, insert into bell. Seat spigot in bell and press gasket into bell and pull gland against bell. Install bolts and nuts fingertight. Finish with a torque wrench, range 60 to 90 foot pounds.

END SECTION

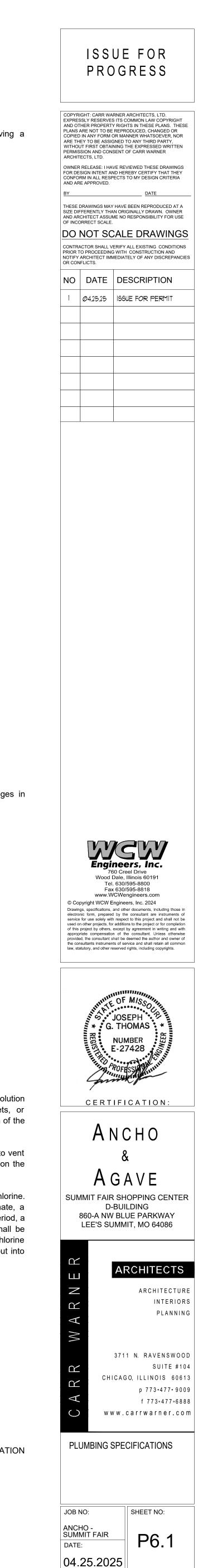
SECTION 15400 PLUMBING

- PART 1 GENERAL
- 1.01 RELATED DOCUMENTS
- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specification sections, apply to work of this section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.
- 1.02 DESCRIPTION
- A. This section provides for the installation of plumbing systems, fixtures, equipment and accessories.
- 1.03 SHOP DRAWINGS
- A. Provide ¹/₄" scale shop drawings for all piping systems.
- PART 2 PRODUCTS
- 2.01 PLUMBING FIXTURES AND ACCESSORIES
- A. Provide plumbing fixtures and accessories as scheduled and noted.

- 2.02 VACUUM BREAKERS
- A. Provide vacuum breakers for plumbing fixtures and supply fittings having a submerged outlet or hose end.
- 2.03 CLEANOUTS
- A. Provide cleanouts for drainage systems as scheduled or noted.
- 2.04 DRAINS AND ACCESSORIES
- A. Provide drains and accessories as scheduled, noted and detailed. 2.05 FLASHINGS
- A. Provide 4 pound sheet lead flashings for roof drains and vents.
- 2.06 TRANSITION COUPLINGS
- A. Provide transition couplings between piping of dissimilar materials. 2.07 THERMOMETERS AND GAUGES
- A. Provide thermometer and gauges per drawing legends.
- B. They shall be separable socket, adjustable angle type.
- C. Manufacturers: Trerice, Marsh, Marshalltown,
- 2.08 HOT WATER GENERATORS
- A. Provide hot water generators per drawing legend.
- 2.09 STORAGE TANK
- A. Provide hot water storage tank, per drawing legend.
- 2.10 BACKFLOW PREVENTERS
- A. Provide backflow preventers where shown.
- 2.11 THERMOSTATIC MIXING VALVES
- A. Provide thermostatic mixing valves per drawing schedule.
- 2.12 CIRCULATING PUMPS
- A. Provide hot water recirculation pump.
- B. Provide immersion aquastat per drawing legend.

2.13 INTERCEPTOR TRAPS

- A. Provide grease trap per drawing
- PART 3 EXECUTION
- 3.01 SEWER SYSTEMS
- A. Provide sewer/drainage systems per the drawings.
- B. Provide cleanouts in the drainage systems per the drawings.
- C. Provide cleanouts at the base of risers, ends of horizontal mains, changes in direction and maximum of fifty (50) feet centers in main runs.
- 3.02 TRAPS
- A. Provide traps for each fixture and drain.
- B. Trap shall be same size as fixture of drain outlet.
- 3.03 FLASHINGS
- A. Provide 24 inch square flashing for vents.
- B. Turn vent flashings down into vent pipe.
- 3.04 COLD WATER SYSTEM
- A. Provide a cold water distribution system, as shown, scheduled and detailed. 3.05 HOT WATER SYSTEM
- A. Provide a hot water distribution system as shown, scheduled and detailed. 3.06 AIR CHAMBERS
- A. Provide air chambers for hot and cold water connections to a supply fitting.
- 3.07 DISINFECTION OF DOMESTIC WATER PIPING
- A. The disinfecting agent shall be one of the following: Sodium hypochlorite solution (commercially available bleach), calcium hypochlorite granules or tablets, or chlorine gas. The choice for a particular job will depend on the configuration of the system to be treated, the convenience and safety factors involved, etc.
- B. Provide nipples and valves as required to introduce disinfectant and water, to vent air and to drain the solution, whether or not these connections are shown on the Drawings.
- C. Fill the system uniformly with a disinfection solution of 100 ppm available chlorine. The disinfectant shall be retained not less than 24 hours. As an alternate, a solution of 300 ppm held for 3 hours is also acceptable. After the holding period, a test for residual chlorine shall be made. If none is found, the system shall be drained and the disinfection procedure repeated. When a positive residual chlorine test is accomplished, the system shall be flushed with potable water and put into operation.
- D. Work shall comply with requirements of Federal, State and Local Authorities. 3.08 THERMOMETERS
- A. Provide thermometers and gauges per drawing details.
- 3.09 HOT WATER GENERATORS
- A. Provide generators, accessories and trim per drawing details.
- 3.10 STORAGE TANK
- A. Provide tank, accessories and trim per drawing details.
- 3.11 INSULATION
- A. Provide plumbing piping and equipment insulation per MECHANICAL INSULATION Section.
- 3.12 INTERFACE CONNECTIONS



~ <u>..</u>

A. Provide interface connections to the work of other trades per drawings.

3.13 PIPING IDENTIFICATION

- A. All new piping, installed under this Contract, shall be identified as to the type o service, and the direction of flow, using a system currently in use by the Owner.
- C. Pipe identification markers shall be installed at each equipment connection and or permission and consent of carr warner twenty (20) foot centers for runs of straight piping.

3.14 ACCESS DOORS

- A. Install access doors in the building construction where shown on the drawings on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the drawings on the building construction where shown on the building construction whe
- B. Coordinate installation with the General Contractor.

3.15 BACKFLOW PREVENTERS

A. Install preventers complete with drain. All piping in accordance with manufacturer's literature.

3.16 THERMOSTATIC MIXING VALVES

A. Install thermostatic mixing valve and accessories per manufacturer's literature. 3.16 CIRCULATING PUMPS

- A. Provide pumps per drawing.
- B. Provide well in piping for aquastat.
- C. Electric wiring by Electrical Contractor to extent shown on electrical drawings. Al other wiring by this Contractor.

END SECTION

SECTION 15486 NATURAL GAS PIPING SYSTEMS

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements Division Specification sections, apply to work of this section.
- B. Requirements of the MECHANICAL BASIC MATERIALS AND METHODS section applies to the Work specified in this Section.

1.02 DESCRIPTION

- A. This section provides for the installation of natural gas piping systems.
- 1.03 SHOP DRAWINGS
- A. Provide 1/4" scale shop drawings for all piping systems.

PART 2 - PRODUCTS

- 2.01 PROVIDE GAS PIPING SYSTEM PRODUCTS
- A. Gas cocks and unions.
- B. Pipe, fittings and piping specialties.
- C. Protective coatings.
- D. Pressure regulators.
- E. Gas service meter and apparatus support.

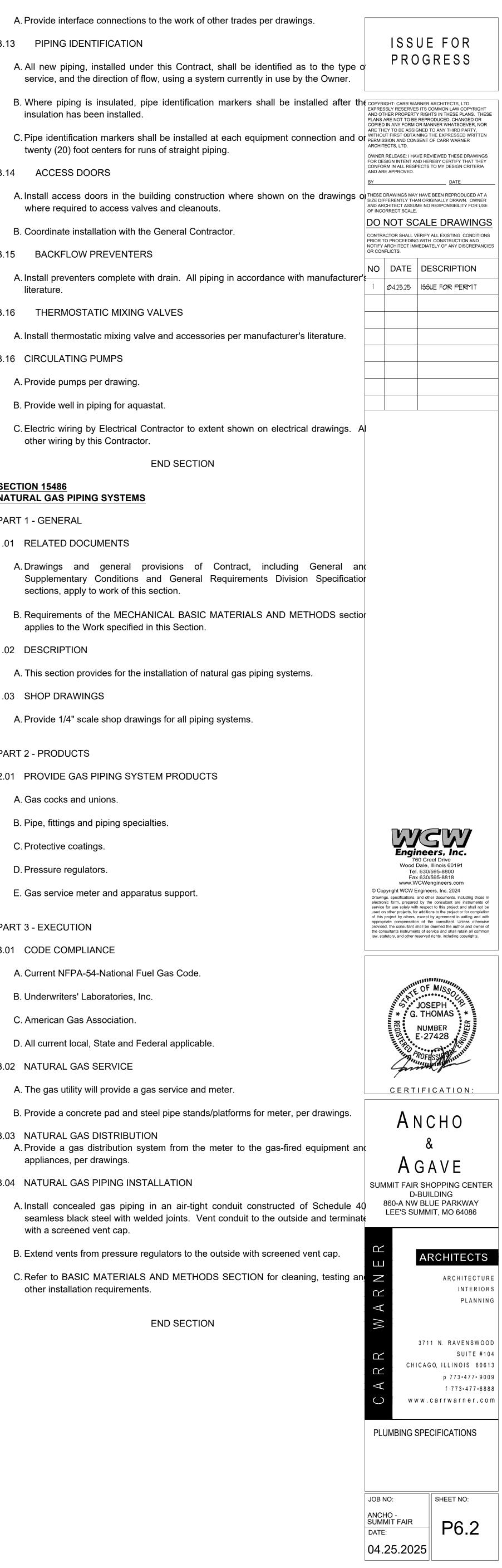
PART 3 - EXECUTION

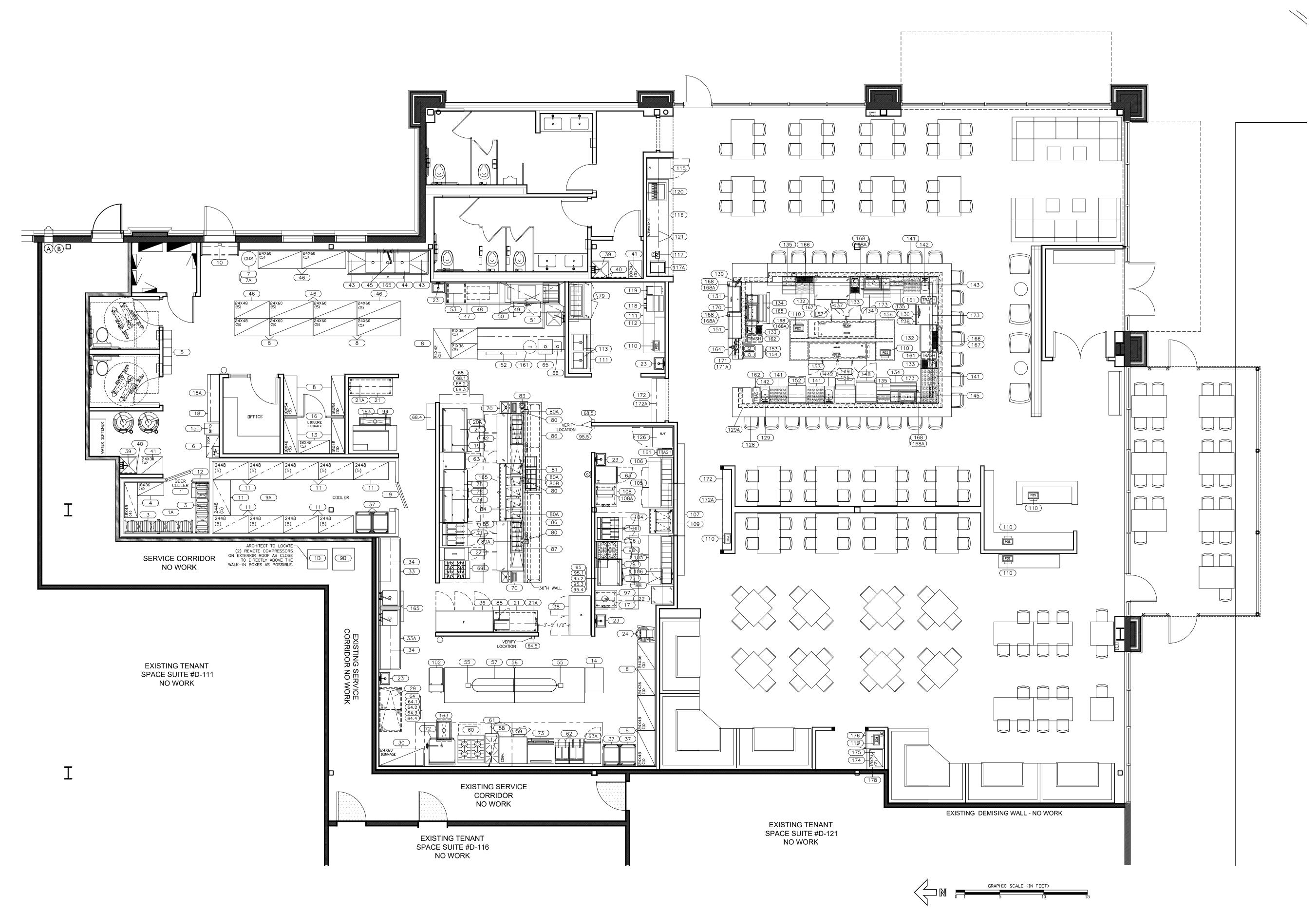
- 3.01 CODE COMPLIANCE
- A. Current NFPA-54-National Fuel Gas Code.
- B. Underwriters' Laboratories, Inc.
- C. American Gas Association.
- D. All current local, State and Federal applicable.

3.02 NATURAL GAS SERVICE

- A. The gas utility will provide a gas service and meter.
- B. Provide a concrete pad and steel pipe stands/platforms for meter, per drawings.
- 3.03 NATURAL GAS DISTRIBUTION A. Provide a gas distribution system from the meter to the gas-fired equipment and appliances, per drawings.
- 3.04 NATURAL GAS PIPING INSTALLATION
- A. Install concealed gas piping in an air-tight conduit constructed of Schedule 40 seamless black steel with welded joints. Vent conduit to the outside and terminate with a screened vent cap.
- B. Extend vents from pressure regulators to the outside with screened vent cap.
- C. Refer to BASIC MATERIALS AND METHODS SECTION for cleaning, testing an other installation requirements.

END SECTION





FOODSERVICE EQUIPMENT SCHE	IDULE	FOC	DSERVICE EQUIPMENT SCHE	DULE	FOC	DSERVICE EQUIPMENT SCHE	EDULE	FOC	DDSERVICE EQUIPMENT SCHE	EDULE	FC	ODSERVICE EQUIPMENT SC	HEDULE	F	OODSERVICE EQUIPMENT S	SCHEDULE
ITEM QTY DESCRIPTION	PROVIDED BY	ITEM QTY	DESCRIPTION	PROVIDED BY	ITEM QTY	DESCRIPTION	PROVIDED BY		Y DESCRIPTION	PROVIDED BY	ITEM Q	TY DESCRIPTION	PROVIDED BY	ITEM	QTY DESCRIPTION	PROVIDE BY
1 1 BEER COOLER – NO FLOOR	A.D.E.	29 1	MOBILE ICE BIN	A.D.E.		HALF-HEIGHT HOT CABINETS	A.D.E.	86 2	EXPO TABLE	A.D.E.	114	OPEN NUMBER		147	OPEN NUMBER	
1A 1 BEER COOLER UNIT COOLER	A.D.E.	30 1	DUNNAGE RACK	A.D.E.	63A 1	SMOKER OVEN	A.D.E.	87 1	OVERSHELF W/HEAT LAMPS (3)	A.D.E.	115	1 REACH-IN REFRIGERATOR (GLASS DOOR)	A.D.E.	148	1 WORK TOP FREEZER	A.D.E.
1B 1 BEER COOLER REFRIGERATION SYSTEM	A.D.E.	31	OPEN NUMBER		64 1	EXHAUST HOOD	A.D.E.	88 2	MICROWAVES	A.D.E.	116	1 BEVERAGE COUNTER	A.D.E.	149	1 CHIP WARMER	A.D.E.
2 OPEN NUMBER		32	OPEN NUMBER		64.1 1	EXHAUST FAN	HVAC	89 LO	T WALL SHELVING		117	1 CHILLED WATER DISPENSER W/DRAINER & FIL	TER A.D.E.	150	1 18IN X 24IN S/S CABINET	A.D.E.
3 2 KEG RACK	A.D.E.	33 1	PREP TABLE W/ SINK	A.D.E.		MAKE UP AIR FAN	HVAC	90 1	S/S WORK TABLE		117A	1 DROP-IN ICE BIN	A.D.E.	151	1 18IN X 30IN S/S CABINET	A.D.E.
4 LOT BEER COOLER SHELVING UNITS	A.D.E.	33A 1	PREP TABLE W/ SINK	A.D.E.	64.3 1	CONTROL CABINET	A.D.E.	91	OPEN NUMBER		118	1 COFFEE BREWER	VENDOR	152	1 GLASSWASHER	VENDOR
5 LOT LOCKERS	OWNER	34 LOT	WALL SHELVING	A.D.E.		FIRE SUPRESSION SYSTEM	A.D.E.	91A	OPEN NUMBER		119	1 ICED TEA BREWER	VENDOR	153	1 CUSTOM EQUIPMENT STAND	ADE
6 1 SODA RACK	VENDOR	35	OPEN NUMBER			REMOTE FIRE PULL (VERIFY LOCATION)	A.D.E.	92	OPEN NUMBER		120	1 SODA & ICE DISPENSER	VENDOR	154	1 FROZEN DRINK MACHINE	A.D.E.
7 1 CO2	VENDOR	36 1	THREE-DOOR REACH-IN FREEZER	A.D.E.	65 1	SILVER SINK	A.D.E.	93	OPEN NUMBER		121 L	OT WALL SHELVING (THREE TRERS)	A.D.E.	155	1 EQUIPMENT STAND	A.D.E.
7A 1 CO2 DETECTOR	VENDOR	37 5	PAN RACKS	A.D.E.	66 1	DUMP SINK	A.D.E.	94 1	ICE MAKER W/ BIN	A.D.E.	122	OPEN NUMBER		156		MILLWORKE
8 LOT DRY STORAGE SHELVING UNITS	A.D.E.	38 1	TWO-DOOR REACH-IN COOLER	A.D.E.	67 1	GLASS RACK DOLLY	A.D.E.	95 1	EXHAUST HOOD	A.D.E.	123	OPEN NUMBER		157	2 108" BACK BAR COOLERS	A.D.E.
9 1 WALK-IN COOLER (NO FLOOR)	A.D.E.	39 2	MOP SINK W/FAUCET	PLUMBER	68.1 1	EXHAUST FAN	HVAC	95.1 1	EXHAUST FAN	A.D.E.	124	OPEN NUMBER		158		
9A 1 WALK-IN COOLER UNIT COOLÉR	A.D.E.	40 5	MOP/BROOM HOLDERS	A.D.E.	68.2 1	MAKE UP AIR FAN	HVAC	95.2 1	MAKE UP AIR FAN	A.D.E.	125	OPEN NUMBER		159	OPEN NUMBER	
9B 1 WALK-IN COOLER REFRIGERATION SYSTEM	A.D.E.	41 2	CHEMICAL SHELF	A.D.E.		CONTROL CABINET	A.D.E.	95.3 1	CONTROL CABINET	A.D.E.	126	1 REACH-IN FREEZER/COOLER	A.D.E.	160	OPEN NUMBER	
10 2 AIR CURTAIN	A.D.E.	42	OPEN NUMBER			FIRE SUPRESSION SYSTEM	A.D.E.		FIRE SUPRESSION SYSTEM	A.D.E.	127	OPEN NUMBER		161	LOT WASTE CANS	OWNER
11 LOT COOLER SHELVING UNITS	A.D.E.	43 LOT	WALL SHELVING	A.D.E.		REMOTE FIRE PULL (VERIFY LOCATION)	A.D.E.		REMOTE FIRE PULL (VERIFY LOCATION)	A.D.E.	128	1 BAR TOP	MILLWORKER	162	2 RECYCLE WASTE CANS	OWNER
12 1 BEER CHILLER	A.D.E.	44 1	THREE COMPARTMENT SINK	A.D.E.		RANGE W/ CABINET BASE (4 BURNER)	A.D.E.	96 1	36" CHEESEMELTER	A.D.E.	129	1 BAR DIE WALL	A.D.E.	163	2 FLOOR TROUGH	PLUMBER
13 LOT LIQUOR COOLER SHELVING UNITS	A.D.E.	45 1	PRE-RINSE SPRAY ARM	A.D.E.		HAND SINKS W/ SPLASH GUARDS	A.D.E.	97 1	WORK TABLE	A.D.E.	129A	1 BAR DIE WALL FRONT PANELS	MILLWORKER	164	1 CABINET	A.D.E.
14 1 HALF SIZE MOBILE CAN RACK W/ TOP	A.D.F.	46 I OT	DISH SHELVING	A.D.E.	71 2	FRYERS	A.D.E.	98 1	4 BURNER RANGE	A.D.F.	130	2 POS	OWNER	165	5 DRAIN TRENCHES	PLUMBER
15 1 NITRO	VENDOR	47 1	CLEAN DISH TABLE	A.D.F.	72 1	TILT SKILLET	A.D.F.	99	OPEN NUMBER		131	1 UNDERBAR ICE CHEST	A.D.F.	166	2 BEER DISPENSER	A.D.F.
16 1 LIQUOR SECURITY GATE	A.D.F.	48 1	BOOSTER HEATER	VENDOR	73 1	UPRIGHT BROILER	A.D.F.	100 1	WALL SHELF	A.D.F	132	2 UNDERBAR FILLERS & DRAINBOARDS	A.D.F.	167	2 DRIP PAN W/ GLASS RINSER	A.D.F.
17 1 CORN TORTILLA PRESS	A.D.F.	49 1	WAREWASHER	VENDOR	74 1	48" CHEESEMELTER	A.D.F.	101 2	FRYERS	A.D.F.	133	3 UNDERBAR DUMPSINKS W/GLASS RINSERS	A.D.F.	168	5 UNDERBAR SODA GUN HOLDERS	A.D.F.
18 1 STAINLESS STEEL COUNTER (LEGS & NO SHELF)	A.D.F.	50 1	CONDENSATE EXHAUST HOOD	A.D.F.	75 1	72" LONG GRIDDLE	A.D.F.	102 1	PORTABLE FILTER	A.D.F	1.34	3 COMB. ICE CHEST W/SPEED RAIL	A.D.F.	168A		VENDOR
18A 1 WALL SHELF	A.D.F.	51 1	SOILED DISHTABLE	A.D.F.	76 1	REFRIGERATED EQUIPMENT BASE	A.D.F.	103 1	REFRIGERATED PREP TABLE – SELF-CONTAINED	A.D.F.	135	3 LIQUOR DISPLAYS	A.D.F.	169	OPEN NUMBER	
19 1 36" TACO SALAMANDER	A.D.F.	52 1	OVERSHELF	A.D.F.	77 1	EQUIPMENT STAND	A.D.F.		HOT FOOD TABLE	A.D.F.	1.36	OPEN NUMBER		170	1 DRINK PICK UP SHELF	A.D.F.
20 1 60" TACO GRIDDLE	A.D.F.	53 1	WALL SHELVING	A.D.F.	78 1	GRIDDLE 36"	A.D.F.	105 1	REFRIGERATED PREP TABLE - SELF-CONTAINED	A.D.F.	1.37	1 WORKTOP REFRIGERATOR	A.D.F.	171	1 WATER FILLER FAUCET	A.D.F.
20A 1 REFRIGERATED EQUIPMENT BASE	ADE	54	OPEN NUMBER	,	79 1	REFRIGERATED SALSA UNIT	ADF	106 107	T WALL SHELVING	A D F	1.38	1 UNDERCOUNTER REFRIGERATOR	A D F	171A	1 WATER FILTER	A D F
21 2 60" WORK TABLES	A.D.F.	55 2		OWNER	80 3	FLECTRICAL CHASES	A.D.F.	107 1		A.D.F. / MILLWORK	139	OPEN NUMBER		172	1 S/S CABINET	A.D.F.
22 1 WORK TABLE W/ CASTERS	A D F	56 2	WORK TABLES	ADF	80A 4	KDS SYSTEMS		108 1	WORK TABLE	A D F	140	OPEN NUMBER		172A	1 WALL SHELF	
23 5 HAND SINKS	A D F	57 1	CEILING HUNG POT RACK	A D F	80B 1	PRINTER	A.D.F.	108A 1	HEAT LAMP	A D F	141	4 DRAINBOARD W/GLASS STORAGE	ADF	173	3 DRINK RAILS	A.D.F.
24 1 30 QT. FLOOR MIXER	A D F	58 1	FILL FAUCET	A D F		CONDIMENT REFRIGERATOR	A.D.F.	109 1	4' CERAMIC STRIP HEAT LAMP	A D F	142	3 UNDERBAR HANDSINKS	A D F	174		A.D.E
25 OPEN NUMBER		59 1	STACKED CONVECTION OVEN		82 1	REFRIGERATED PREP TABLE - SELF-CONTAINED			POS SYSTEMS	OWNER	143	1 CORNER FILLER & DRAINBOARD	A D F	175	LOT WALL SHELVING	A.D.E.
26 OPEN NUMBER		60 1	RANGE W/ CONVECTION OVEN (4 BURNER)	A.D.E.	83 1	COUNTERTOP WARMER			WORK TABLE		144			176	4 UNDERCOUNTER REFRIGERATOR	A.D.E.
27 1 REFRIGERATOR			STOCK POT RANGE		84 1	HOT FOOD TABLE			T WALL SHELVING			1 CORNER FILLER & DRAINBOARD		177	1 MOP SINK W/FAUCET	PLUMBER
28 OPEN NUMBER			FRYERS	A.D.L.	85 1	REFRIGERATED PREP TABLE – SELF-CONTAINED			CHIP WARMERS		145			178	2 WIRE SHELVING	A.D.F.
						INLINIGLIAILD FINLF IADLE - SELF-CONTAINED					140			170		

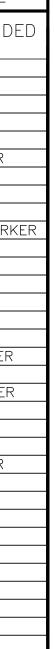
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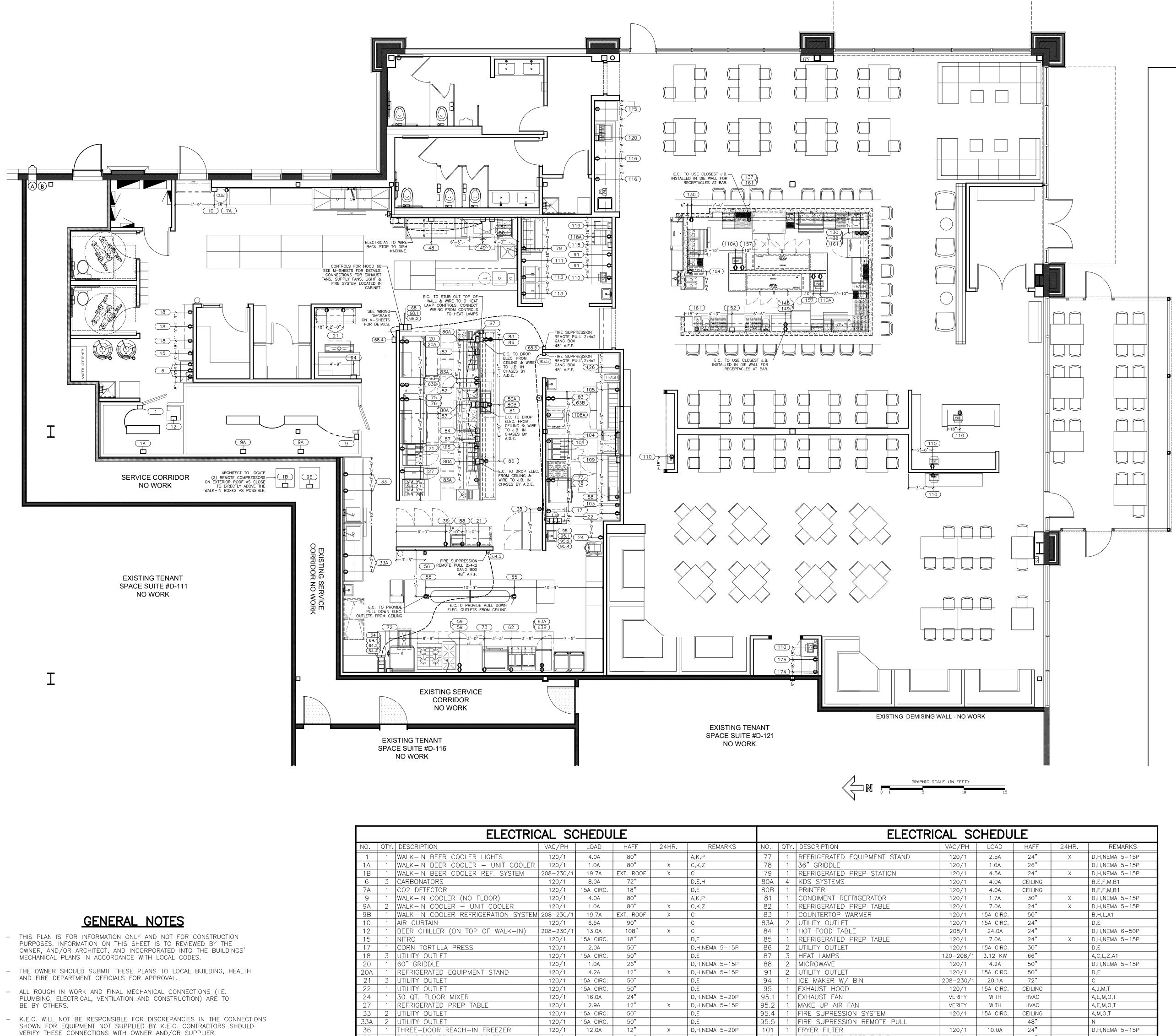
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- IN EXISTING BUILDING WHENEVER POSSIBLE. - CONTRACTORS TO PROVIDE AND INSTALL WALL BACKING FOR WALL SHELVES. WALL MOUNTED HANDSINKS, WALL MOUNTED COOKING EQUIPMENT, ETC. VERIFY THESE LOCATION WITH OWNER.
- FLOOR DRAINS AND/OR FLOOR SINKS SHOWN ARE RECOMMENDED LOCATIONS, MECHANICAL ENGINEER TO VERIFY CODE REQUIREMENTS
- ALL ELECTRICAL CONDUIT SHALL BE RUN ON TOP (EXTERIOR) OF WALK-IN & SHALL HAVE VAPOR SEALS ON INTERIOR & EXTÉRIOR OF CONDUIT.

GENERAL CONTRACTOR SHALL FURNISH & INSTALL ROOF PAD FOR SECTION 114000 FURNISHED ROOFTOP REFRIGERATION RACK.

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- CONTRACTORS TO MAKE USE OF ANY CONNECTIONS ALREADY INSTALLED IN EXISTING BUILDING WHENEVER POSSIBLE.
- CONTRACTORS TO PROVIDE AND INSTALL WALL BACKING FOR WALL SHELVES, WALL MOUNTED HANDSINKS, WALL MOUNTED COOKING
- EQUIPMENT, ETC. VERIFY THESE LOCATION WITH OWNER. FLOOR DRAINS AND/OR FLOOR SINKS SHOWN ARE RECOMMENDED
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	ELECTRIC	<u>201 SU</u>	יורטו				ELECTRICAL SCHEDULE								
NO.		VAC/PH		HAFF	24HR.	REMARKS	NO.					HAFF	24HR.	REMARKS	
1		,			2 11 11 (;					,		24"		D,H,NEMA 5–15P	
1 ^	1 WALK-IN BEER COOLER LIGHTS	120/1	4.0A	80" 80"		A,K,P	77		REFRIGERATED EQUIPMENT STAND	120/1	2.5A		Х		
1A	1 WALK-IN BEER COOLER - UNIT COOLER	120/1	1.0A		X	C,K,Z	78		36" GRIDDLE	120/1	1.0A	26" 24"	X	D,H,NEMA 5-15P D,H,NEMA 5-15P	
1B	1 WALK-IN BEER COOLER REF. SYSTEM	208-230/1	19.7A	EXT. ROOF 72"	Х	С	79		REFRIGERATED PREP STATION	120/1	4.5A	-	Х	, ,	
0	3 CARBONATORS 1 CO2 DETECTOR	120/1	8.0A	18"		D,E,H	80A	4	KDS SYSTEMS PRINTER	120/1	4.0A	CEILING		B,E,F,M,B1	
7A	1 WALK-IN COOLER (NO FLOOR)	120/1	15A CIRC.	80"		D,E	80B		CONDIMENT REFRIGERATOR	120/1	4.0A	CEILING 30"	V	B,E,F,M,B1 D,H,NEMA 5-15P	
9	2 WALK-IN COOLER (NO FLOOR)	120/1	4.0A	80 80"		A,K,P	81		REFRIGERATED PREP TABLE	120/1	1.7A 7.0A	24"	X	-,,.	
9A		120/1	1.0A		X	C,K,Z	82			120/1	7.0A 15A CIRC.	24 50"	X	D,H,NEMA 5-15P	
9B	1 WALK—IN COOLER REFRIGERATION SYSTEM 1 AIR CURTAIN	,	19.7A	EXT. ROOF 90"	Х	C C	83		COUNTERTOP WARMER	120/1		24"		B,H,L,A1 D,E	
10	1 BEER CHILLER (ON TOP OF WALK-IN)	120/1	6.5A	90 108"		C C	83A		UTILITY OUTLET	120/1	15A CIRC.	24		D,E D,H,NEMA 6-50P	
12		208-230/1	13.0A 15A CIRC.	108	Х	-	84		HOT FOOD TABLE	208/1	24.0A	24	V		
15		120/1				D,E	85		REFRIGERATED PREP TABLE	120/1	7.0A		Х	D,H,NEMA 5-15P	
10	1 CORN TORTILLA PRESS	120/1	2.0A	50" 50"		D,H,NEMA 5-15P	86		UTILITY OUTLET	120/1	15A CIRC.	30"		D,E	
18	3 UTILITY OUTLET 1 60" GRIDDLE	120/1 120/1	15A CIRC. 1.0A	26"		D,E D,H,NEMA 5-15P	87		MICROWAVE	120-208/1	3.12 KW 4.2A	66" 50"		A,C,L,Z,A1 D,H,NEMA 5-15P	
20		,		12"			88			,	4.2A 15A CIRC.	50 50"			
20A	1 REFRIGERATED EQUIPMENT STAND	120/1	4.2A	50"	Х	D,H,NEMA 5-15P	91			120/1		72"		D,E	
21		120/1	15A CIRC.			D,E	94		ICE MAKER W/ BIN	208-230/1	20.1A				
22		120/1	15A CIRC.	50"		D,E	95		EXHAUST HOOD		15A CIRC.	CEILING		A,J,M,T	
24	1 30 QT. FLOOR MIXER	120/1	16.0A	24"		D,H,NEMA 5-20P	95.1		EXHAUST FAN	VERIFY	WITH	HVAC		A,E,M,O,T	
27	1 REFRIGERATED PREP TABLE	120/1	2.9A	12" 50"	X	D,H,NEMA 5-15P	95.2		MAKE UP AIR FAN	VERIFY	WITH	HVAC		A,E,M,O,T	
33		120/1	15A CIRC.			D,E	95.4		FIRE SUPRESSION SYSTEM	120/1	15A CIRC.	CEILING		A,M,O,T	
33A	2 UTILITY OUTLET	120/1	15A CIRC.	50"		D,E	95.5		FIRE SUPRESSION REMOTE PULL	-	-	48"			
36	1 THREE-DOOR REACH-IN FREEZER	120/1	12.0A	12"	X	D,H,NEMA 5-20P	101		FRYER FILTER	120/1	10.0A	24"	X	D,H,NEMA 5-15P	
38	1 TWO-DOOR REACH-IN COOLER	120/1	7.4A	12" 24"	X	D,H,NEMA 5-20P	103		REFRIGERATED PREP TABLE	120/1	13.0A	24"	Х	D,H,NEMA 5-15P	
48	1 BOOSTER HEATER	480/3	43.4A	24 78"		C,E	104		HOT FOOD TABLE	208/1	8.4A	24"	× ×	D,H,NEMA 6-15P	
49	1 WAREWASHER	480/3	22.3A	· -		C,E	105		REFRIGERATED PREP TABLE	120/1	7.4A	24"	Х	D,H,NEMA 5-15P	
50	1 CONDENSATE EXHAUST HOOD	120/1	15A CIRC.	CEILING		A,J,M,T	108A		HEAT LAMP	120/1	4.4A	50"		D,H	
50.1	1 EXHAUST FAN	VERIFY	WITH	HVAC		A,E,M,O,T	109		HEAT LAMP	208/1	9.7A	66" 42"		A,C,L,Z	
55	2 PULL DOWN CORDS W/ RECEPTACLES	120/1	15A CIRC.	CEILING		E,M	110	6		120/1	4.0A	12		D,E,F,H	
56		120/1	15A CIRC.	24"		D,E	110A		POS SYSTEMS	120/1	4.0A	30"		D,E,F,H	
59	2 STACKED CONVECTION OVEN	120/1	8.0A	24"&48"		D,H	111			120/1	15A CIRC.	50"		D,E	
62	1 FRYER FILTER	120/1	10.0A	24"		D,H,NEMA 5-15P	113		CHIPS WARMER	120/1	6.5A	50"	X	D,H	
63	2 HALF-HEIGHT COOK & HOLD CABINET	120/1	14.2A	24"		D,H,NEMA 5-20P	115		REACH-IN REFRIGERATOR	120/1	3.0A	24"	X	D,H,NEMA 5-15P	
63A	1 SMOKER OVEN	120/1	16.0A	24" 50"		D,H,NEMA 5-20P	116	_		120/1	15A CIRC.	50" 50"		D,E	
63B		120/1	15A CIRC.			D,E	118	_	COFFEE BREWER	120-208/1	30A CIRC.	50 50"		C,E	
64	1 EXHAUST HOOD	120/1	15A CIRC.	CEILING		A,J,M,T	118A		COFFEE GRINDER	120/1	20A CIRC.	50 50"		D,E,H	
64.1	1 EXHAUST FAN	VERIFY	WITH	HVAC HVAC		A,E,M,O,T	119		ICED TEA BREWER SODA & ICE DISPENSER	120-208/1	30A CIRC.	50 12"		C,E D,E,H	
64.2	1 MAKE UP AIR FAN	VERIFY	WITH	-		A,E,M,O,T	120			120/1	4.0A	24"	V		
64.4	1 FIRE SUPRESSION SYSTEM	120/1	15A CIRC.	CEILING 48"		A,M,O,T	126		REACH-IN FREEZER	120/1	5.0A		Х	D,H,NEMA 5-15P	
64.5	1 FIRE SUPRESSION REMOTE PULL	-				N	130			120/1	4.0A	VERIFY	X	B,E,F,H	
68	1 EXHAUST HOOD	120/1	15A CIRC.	CEILING		A,J,M,T	137		WORKTOP REFRIGERATOR	120/1	2.8A	18"	X	D,H,NEMA 5-15P	
68.1	1 EXHAUST FAN	VERIFY	WITH	HVAC		A,E,M,O,T	138		UNDERCOUNTER REFRIGERATORS	120/1	2.8A	18"	X	D,H,NEMA 5-15P	
68.2	1 MAKE UP AIR FAN	VERIFY	WITH	HVAC		A,E,M,O,T	148		WORK TOP FREEZER	120/1	5.0A	18" 24"	X	D,H,NEMA 5-15P	
68.4	1 FIRE SUPRESSION SYSTEM	120/1	15A CIRC.	CEILING 48"		A,M,O,T	149		CHIP WARMER	120/1	8.7A	-		D,H	
68.5	1 FIRE SUPRESSION REMOTE PULL	-	-				152		GLASSWASHER	120/1	16.0A	18"		C,E	
71	1 FRYER FILTER	120/1	10.0A	24"		D,H,NEMA 5-15P	154		FROZEN DRINK MACHINE	120/1	13.0A	24"		D,H,NEMA 5-20P	
72	1 TILT SKILLET	120/1	1.8A	24"		D,H,NEMA 5-15P	157		BACK BAR COOLER	120/1	4.2A	24"	Х	D,H,NEMA 5-15P	
73	1 UPRIGHT BROILER	120/1	3.4A	24"		D,H	161	<u> </u>		120/1	15A CIRC.	36"		D,E	
75	1 72" GRIDDLE	120/1	1.0A	26"		D,H,NEMA 5-15P	174	1	UTILITY OUTLET	120/1	15A CIRC.	50"		D,E	
76	1 REFRIGERATED EQUIPMENT STAND	120/1	5.7A	24"	Х	D,H,NEMA 5-15P	176	1	UNDERCOUNTER REFRIGERATOR	120/1	2.5A	24"	X	D,H,NEMA 5-15P	

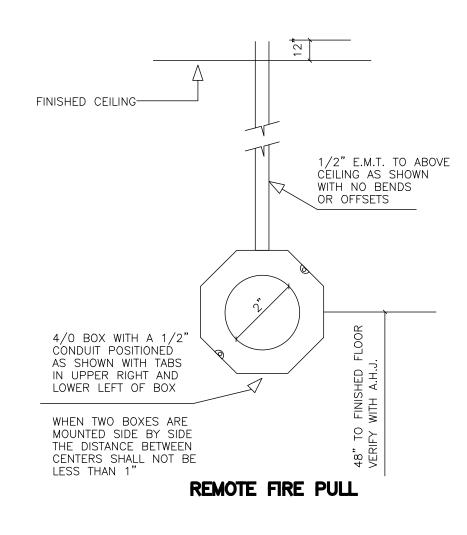
ELECTRICAL REMARKS

- A. WIRE TO JUNCTION BOX ON EQUIPMENT. ATTACH RECEPTACLE OR J.B. TO COUNTER, CABINET,
- OR EQUIPMENT. WIRE TO EQUIPMENT. PROVIDE DISCONNECT OR CORD AND С.
- PLUG AS REQUIRED BY LOCAL CODE. D. PROVIDE RECEPTACLE FLUSH IN WALL.
- EQUIPMENT NOT SUPPLIED BY A.D.E., VERIFY REQUIREMENTS Ε. WITH SUPPLIER.
- F. DEDICATED CIRCUIT/ISOLATED GROUND, PROVIDE ELECTRICAL OUTLET. PROVIDE CONDUIT ACCESS FOR COMMUNICATION
- CABLE, VERIFY WITH OWNER.
- G. PROVIDE AND INSTALL CORD & PLUG AND RECEPTACLE. H. EQUIPMENT SUPPLIED WITH CORD & PLUG.
- WIRE FROM CONTROL PANEL OR WALL SWITCH TO FAN(S) ON EXTERIOR ROOF. PROVIDE AND INSTALL DISCONNECT. SWITCH AND STARTERS |.
- LOCATED IN CONTROL PANEL. J. WIRE FROM SWITCH ON PANEL TO LIGHTS IN ALL HOODS.
- K. CONNECTION INSIDE WALK-IN FROM CEILING. E.C. TO CAULK ALL CONDUIT PENETRATIONS INSIDE AND OUTSIDE. RUN ALL HORIZONTAL CONDUIT ABOVE WALK-IN WHERE POSSIBLE.
- L. STUB UP FROM FLOOR, ATTACH TO RECEPTACLE OR J.B. ON EQUIPMENT.
- M. FROM CEILING.
- INSTALL 4x4 J.B. IN WALL, RUN CONDUIT ABOVE DROP CEILING FOR FIRE SYSTEM PULL STATION. VERIFY LOCATION Ν. W/ LOCAL INSPECTOR.
- PROVIDE CIRCUIT FOR ALARM, SHUNT TRIP BREAKERS & FAN SHUT-OFF AS REQUIRED BY LOCAL CODE. MICROSWITCH PROVIDED IN UTILITY CABINET. WIRE TO J.B. ON FIRE SYSTEM. 0.
- ELECTRICIAN TO INSTALL LIGHT FIXTURES SUPPLIED WITH EQUIPMENT. Ρ.
- STUB UP FROM FLOOR, MOUNT J.B. OR RECEPTACLE TO COUNTER OR EQUIPMENT. Q.
- RUN CONTROL WIRING FROM "STOP SWITCH" TO DISHWASHER. R. VERIFY WITH SUPPLIER. SUPPLIED BY CHEMICAL COMPANY.
- S. MOUNT RECEPTACLE TO UNDERSIDE OF BAR TOP. T. SEE EXHAUST HOOD WIRING DIAGRAM #1 (PLAN K-5)
- $_{\sf V.}$ SEE WIRING DIAGRAM #2
- WIRE TWO CONTROL WIRES FROM J.B ON ICE MAKER TO ROOF TOP REMOTE CONDENSER. W.
- WIRE FROM EXHAUST FAN ON EXTERIOR ROOF TO WALL SWITCH. PROVIDE AND LOCATE WALL SWITCH PER PLAN. Χ.
- CONNECT TO PANEL INSTALLED ON EQUIPMENT. UNCOIL FACTORY SUPPLIED WIRING AND CONNECT TO RECEPTACLES AND JUNCTION BOXES ALSO INSTALLED ON EQUIPMENT. Υ.
- Z. WIRE CONTROLS SUPPLIED WITH EQUIPMENT.
- A1 E.C. TO STUB UP FROM TOP OF LOW WALL & WIRE TO CONTROLS IN HEAT LAMP ENCLOSURE
- B1 DROP FROM CEILING AND WIRE TO J.B. IN S/S CHASE BY A.D.E.

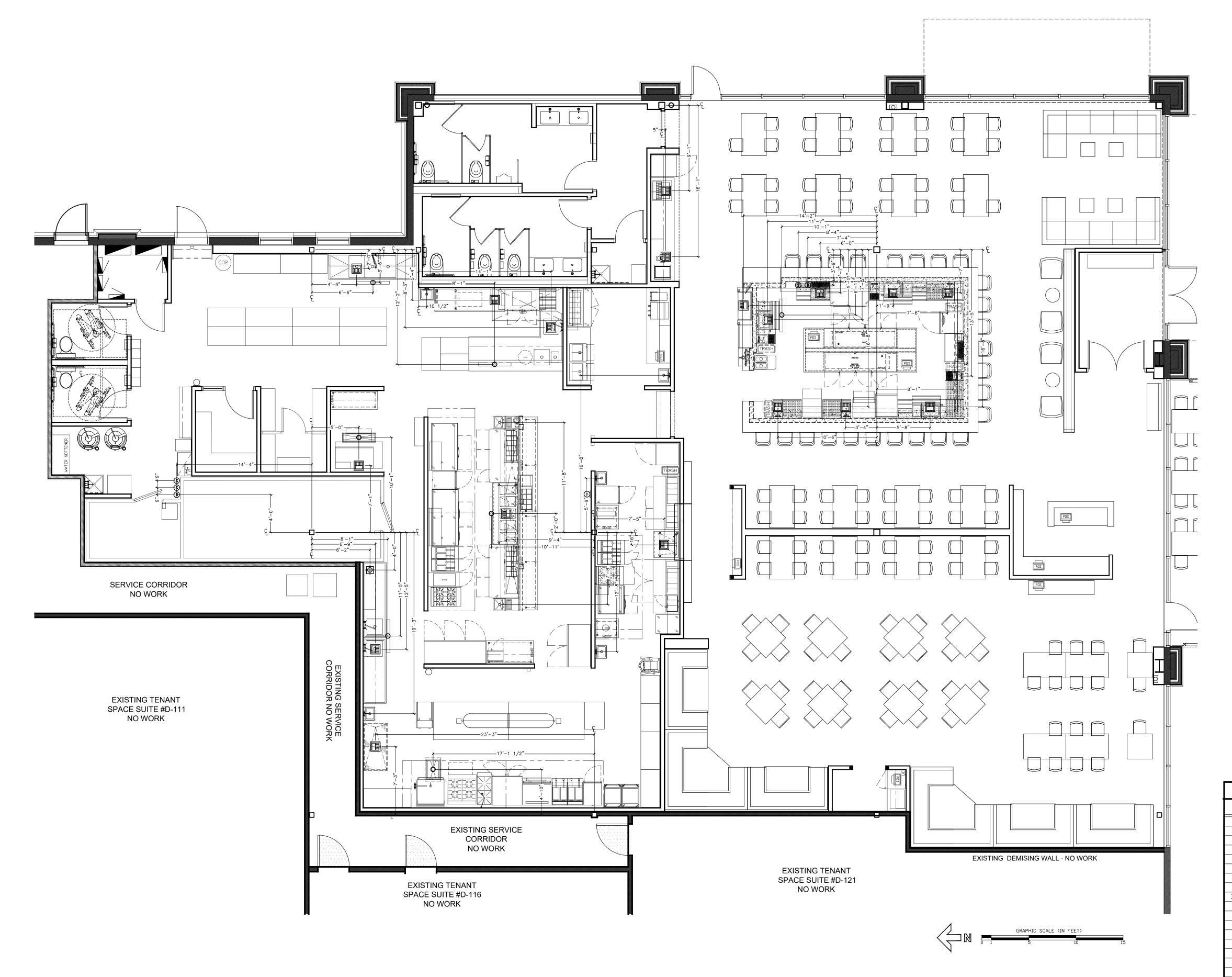
	ELECTRICAL SYMBOLS AND ABBREVIATIONS									
Φ	S.R.	SINGLE RECEPTACLE								
Ø	DDGR.	DEDICATED DUPLEX GROUNDED RECEPTACLE								
Φ	D.O.	DUPLEX OUTLET								
∇	DIR.	DIRECT WIRED CONNECTION								
•	ECS.	ELECTRICAL CONDUIT STUB UP								
	JB.	JUNCTION BOX								
\$	SW.	SWITCH								
	TEL.	TELEPHONE								
	KW.	KILOWATTS								
	∨.	VOLTS								
	HP.	HORSEPOWER								
	AFF.	ABOVE FINISHED FLOOR								
	WFA.	WIRED FROM ABOVE								

ELECTRICAL CONTRACTOR NOTES

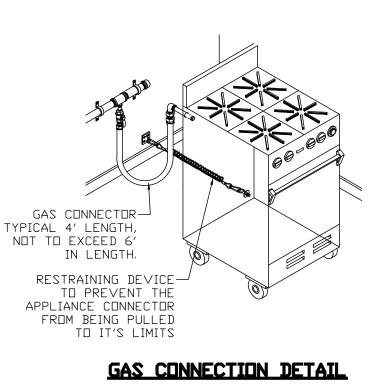
- PROVIDE ALL LABOR AND MATERIALS TO COMPLETELY INSTALL THIS FOOD FACILITY. NO EXTRA CHARGES WILL BE ACCEPTED BY ADE
- RESTAURANT SERVICES, INC. - FURNISH ALL FLEXIBLE CORDS, PLUGS, CONNECTORS AND OUTLETS UNLESS OTHERWISE SPECIFIED.
- VERIFY WITH OWNER AND/OR ARCHITECT THE ELECTRICAL CIRCUITING OF THE CONNECTIONS ON THIS PLAN. IT IS RECOMMENDED THAT REFRIGERATION
- EQUIPMENT HAVE INDIVIDUAL CIRCUITS. - VERIFY WITH OWNER AND/OR ARCHITECT IF ADDITIONAL OUTLETS ARE
- REQUIRED FOR CLOCKS, MENU SIGNS, EMPLOYEE TIME CLOCK, ETC. - PROVIDE GROUND FAULT OUTLETS WHERE REQUIRED BY LOCAL CODE.
- WIRE TO THERMOSTATS & DEFROST TIMER WHERE NOTED.
- INSTALL LIGHT FIXTURES SHIPPED LOOSE W/EQUIPMENT.
- RUN ALARM WIRING PROVIDED WITH ALARMS AS SHOWN. LOCATE SENSORS BEHIND BLOWER COILS
- EC TO WIRE ALL REFRIGERATION EQUIPMENT, HEATERS, CONTROLS AND LIGHTS PROVIDED WITH WALK-IN COOLER AND/OR FREEZER. INSTALL TRANSFORMER SHIPPED WITH ALARMS.



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EXPRES AND OT PLANS COPIED ARE TH WITHOU PERMIS ARCHIT OWNER FOR DE CONFO	SSLY RESERVES HER PROPERT IN ANY FORM (EY TO BE ASSIG JT FIRST OBTAIL SION AND CON: ECTS, LTD. RELEASE: I HA' SIGN INTENT AM	S ITS C Y RIGH REPR DR MAI SNED 1 NING 1 SENT (VE RE ^V ND HEF	ARCHITECTS, LTD. OMMON LAW COPYRIGHT ITS IN THESE PLANS. THESE ODUCED, CHANGED OR NNER WHATSOEVER, NOR TO ANY THIRD PARTY, THE EXPRESSED WRITTEN OF CARR WARNER VIEWED THESE DRAWINGS GEBY CERTIFY THAT THEY TO MY DESIGN CRITERIA DATE
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- THIS PLAN IS FOR INFORMATION ONLY AND NOT FOR CONSTRUCTION PURPOSES. INFORMATION ON THIS SHEET IS TO REVIEWED BY THE OWNER, AND/OR ARCHITECT, AND INCORPORATED INTO THE BUILDINGS' MECHANICAL PLANS IN ACCORDANCE WITH LOCAL CODES.
- THE OWNER SHOULD SUBMIT THESE PLANS TO LOCAL BUILDING, HEALTH AND FIRE DEPARTMENT OFFICIALS FOR APPROVAL.
- ALL ROUGH IN WORK AND FINAL MECHANICAL CONNECTIONS (I.E. PLUMBING, ELECTRICAL, VENTILATION AND CONSTRUCTION) ARE TO
- BE BY OTHERS.K.E.C. WILL NOT BE RESPONSIBLE FOR DISCREPANCIES IN THE CONNECTIONS
- SHOWN FOR EQUIPMENT NOT SUPPLIED BY K.E.C. CONTRACTORS SHOULD VERIFY THESE CONNECTIONS WITH OWNER AND/OR SUPPLIER. - CONTRACTORS TO MAKE USE OF ANY CONNECTIONS ALREADY INSTALLED
- IN EXISTING BUILDING WHENEVER POSSIBLE.CONTRACTORS TO PROVIDE AND INSTALL WALL BACKING FOR WALL
- SHELVES. WALL MOUNTED HANDSINKS, WALL MOUNTED COOKING EQUIPMENT, ETC. VERIFY THESE LOCATION WITH OWNER.
- FLOOR DRAINS AND/OR FLOOR SINKS SHOWN ARE RECOMMENDED LOCATIONS, MECHANICAL ENGINEER TO VERIFY CODE REQUIREMENTS
- ALL ELECTRICAL CONDUIT SHALL BE RUN ON TOP (EXTERIOR) OF WALK—IN & SHALL HAVE VAPOR SEALS ON INTERIOR & EXTERIOR OF CONDUIT.
- GENERAL CONTRACTOR SHALL FURNISH & INSTALL ROOF PAD FOR SECTION 114000 FURNISHED ROOFTOP REFRIGERATION RACK.



	PLUMBING SYMBOLS AND ABBREVIATIONS									
● ● ● ●	HW. CW. DW. FD	HOT WATER LINE STUB COLD WATER LINE STUB WASTE CONNECTION FLUSH FLOOR DRAIN AND GRATE								
₽	IND	INDIRECT WASTE DRAIN, HUB DRAIN, FLOOR DRAIN W/ FUNNEL OR SIMILAR. VERIFY WITH ARCHITECT								
	FS.	RECOMMENDED FLOOR SINK LOCATION. VERIFY WITH ARCHITECT.								
	GAS	GAS SUPPLY STUB LINE								
	AFF. DFA.	ABOVE FINISHED FLOOR DOWN FROM ABOVE								

PLUMBING CONTRACTOR NOTES

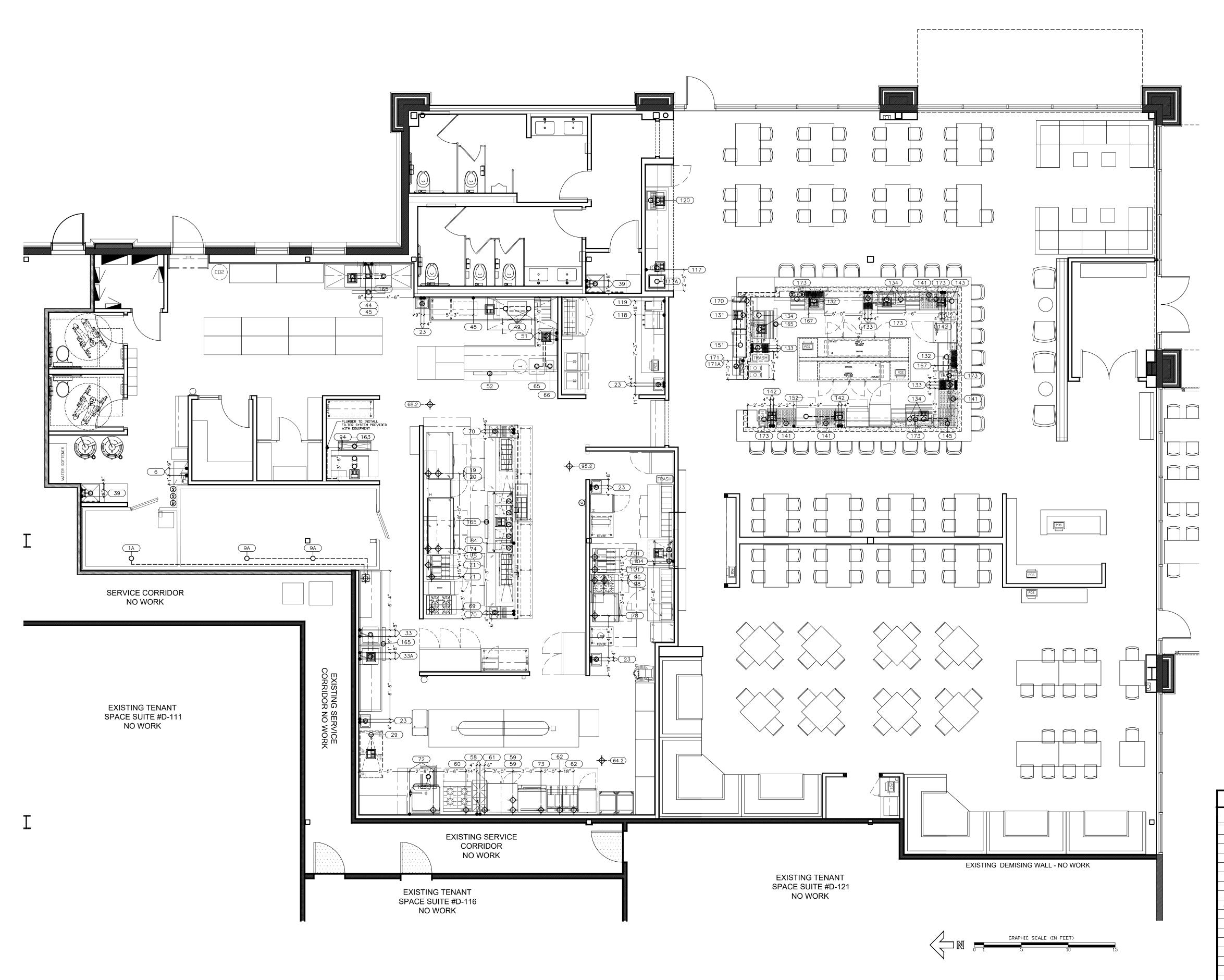
- PROVIDE ALL LABOR AND MATERIALS TO COMPLETELY INSTALL THIS FOOD FACILITY. NO EXTRA CHARGES WILL BE ACCEPTED BY ADE RESTAURANT SERVICES, INC.
- ALL PLUMBING FIXTURES BY A.D.E. RESTAURANT SERVICES, INC., INCLUDE FAUCETS AND WASTE FITTINGS ONLY. PROVIDE AND INSTALL ALL "P" TRAPS, MANIFOLDS, DRAIN LINES, SHUT-OFFS, GREASE TRAPS & BACKFLOW PREVENTORS AS REQUIRED BY EQUIPMENT AND/OR LOCAL CODES.
- ALL KITCHEN, DINING ROOM AND BAR AREA WASTES ARE TO BE OPEN SITE IN FLOOR, UNLESS OTHERWISE SRECIFIED.
- IF WATER PRESSURE AT EQUIPMENT AREA EXCEEDS 40 P.S.I. FLOW
 PRESSURE, INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT AND COLD WATER SUPPLY LINES.
- LOCATE AND FURNISH ALL AREA FLOOR DRAINS UNLESS OTHERWISE SPECIFIED.
- PROVIDE AND SIZE ANY SOFTENING AND FILTERING EQUIPMENT THAT MAY BE REQUIRED UNLESS OTHERWISE SPECIFIED.
- DETERMINE SIZE OF GAS SUPPLY LINE REQUIRED FOR ALL GAS EQUIPMENT INCLUDING FOOD SERVICE EQUIPMENT.
- PLUMBER TO PROVIDE AND INSTALL BACKFLOW PREVENTORS ON ALL
- EQUIPMENT AS REQUIRED BY LOCAL CODE.
 ALL EXHAUST AND SUPPLY AIR SYSTEMS FOR EXHAUST HOODS TO BE TESTED AND BALANCED BY THE DIVISION 23 CONTRACTOR

MECHANICAL REMARKS

- A. INSTALL FAUCET PROVIDED BY A.D.E., PROVIDE SHUT-OFF
- B. CONNECT TO EQUIPMENT. PROVIDE SHUT-OFF.
- C. MANIFOLD MULTIPLE DRAINS AND RUN TO O.S.D. (OPEN SITE DRAIN) AND OR GREASE TRAP. VERIFY WITH LOCAL PLUMBING CODES.
- D. RUN TO FLUSH FLOOR DRAIN, INDIRECT WASTE DRAIN OR 12"x12" FLOOR SINK. VERIFY WITH LOCAL PLUMBING CODES.
- E. EQUIPMENT NOT SUPPLIED BY A.D.E., VERIFY REQUIREMENTS
- WITH OWNER. F. MULTIPLE WATER CONNECTIONS
- G. PROVIDE ACCESS FOR CO2, BEER, AND/OR SODA LINES,
- VERIFY WITH VENDOR.
 H. A.D.E. TO PROVIDE FLEXIBLE GAS LINE AND RESTRAINING CABLE.
 THIS DEVICE WILL NOT EXCEED SIX FEET (6') IN LENGTH AND SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE. RESTRAINING DEVICES WILL ALSO BE PROVIDED TO LIMIT THE MOVEMENT OF EQUIPMENT AND PREVENT THE APPLIANCE CONNECTOR FROM BEING PULLED TO IT'S LIMITS. PLUMBER TO INSTALL AND PROVIDE SHUT-OFF.
- I. PLUMBER TO SUPPLY P.R.V. (PRESSURE REGULATING VALVE).
- J. PIPE TO DISHWASHER, INSTALL VALVES AND CONTROLS PROVIDED WITH EQUIPMENT.
- J1. PIPE FROM BOOSTER HEATER TO DISHWASHER, INSTALL VALVES AND CONTROLS PROVIDED WITH EQUIPMENT. SEE DETAILS ON THIS PAGE.
- K. LOCATE SHUT-OFF IN CABINET BASE AND PIPE TO EQUIPMENT
- ON TOP OF CABINET. L. FLEXIBLE WATER LINES PROVIDED BY A.D.E., INSTALLED BY PLUMBER.
- M. STUB OUT AT 12" A.F.F., INSTALL FAUCET ON OUTSIDE OF 6" DEEP S/S RETURN AIR PLENUM. SEE EXHAUST HOOD ELEVATION DETAIL ON PLAN K-4.
- N. INSTALL DRAIN VALVE ON OUTLET AND RUN TO O.S.D.
- 0. INSTALL FILTER SYSTEM PROVIDED WITH EQUIPMENT.
- P. MANIFOLD CONNECTIONS. PLUG ANY OPENING NOT USED.
- Q. INSTALL SECTION 114000 MECHANICAL FUEL SHUT OFF GAS VALVE FOR FURNISHED FIRE SUPRESSION SYSTEM UNDER DIVISION 22. NEEDS TO BE ACCESSIBLE AND SHALL NOT BE OCNCEALED IN WALLS FOR CEILING.

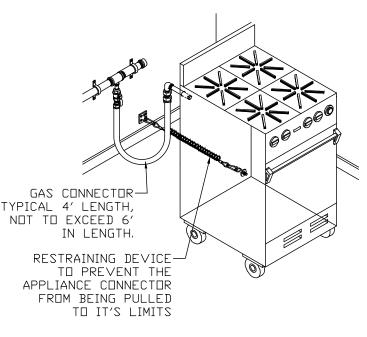
				PII	JMBING	SCHE							
			COLD		HOT		DIRECT		INDIRECT				
NO.	QTY.	DESCRIPTION	WATER	HAFF	WATER	HAFF	WASTE	HAFF	WASTE	BTU'S	GAS	HAFF	REMARKS
1A	1	BEER COOLER - NO FLOOR	-	-	_	_	—	78"	1"	_	_		D
6	1	SODA RACK WALK-IN COOLER (NO FLOOR)	3/8"	66"	_	-	_	- 78"		_	-	_	B,E,G
9A 19	2	36" CHEESEMELTER		_		-	_	/8		- 40,000	 1/2"	 76"	D H
20	1	60" GRIDDLE		_				_		140,000	3/4"	18"	Н
23	5	HAND SINKS	1/2"	15"	1/2"	15"	1-1/2"	21"	_	-		-	A
29	1	MOBILE ICE BIN		_		_		6"	1-1/2"	_	_		D,N
33	1	PREP TABLES W/ SINKS	1/2"	15"	1/2"	15"	_	18"	1-1/2"	_	_	_	A,D
33A	1	PREP TABLES W/ SINKS	1/2"	15"	1/2"	15"	_	18"	1-1/2"	_	_		A,D
39	2	MOP SINK W/FAUCET	1/2"	36"	1/2"	36"	1-1/2"	AT FLOOR		_	_	_	A,E
44	1	THREE COMPARTMENT SINK		_	_	_	_	18"	(3) 1-1/2"	_	_	_	С
45	1	PRE-RINSE SPRAY ARM	1/2"	15"	1/2"	15"	_	_	_	_	_	_	А
48	1	BOOSTER HEATER	_	_	1/2"	15"	_	_	_	_	_	-	B,E
49	1	WAREWASHER	_	_	_	_	_	6"	1-1/2"	-	_		D,E
51	1	SOILED DISHTABLE	1/2"	15"	1/2"	15"	_	18"	1-1/2"	_	_	_	A,D
52	1	TRENCH DRAIN	_	-	_	-	_	AT FLOOR	3"	-	-	-	E
58	1	FILL FAUCET	1/2"	48"	1/2"	48"	—	-	_	_	-	-	А
59	2	CONVECTION OVEN	_	_	_	_	_	_	_	50,000	3/4"	18"	H,P
60	1	RANGE W/ CONVECTION OVEN (4 BURNER)	_	-	_	-	_	_	_	225,000	1"	18"	Н
61	1	STOCK POT RANGE	_	_	_	_	_	_	_	160,000	3/4"	18"	H
62	2	FRYERS	_	_	—	_	_	_	_	150,000	3/4"	18"	Н
64.2	1	MAKE UP AIR FAN	_	-	_	-	_	-	-	VERIFY	WITH	HVAC	Н
65	1	SILVER SINK	_	-	_	-	_	18"	$\frac{1-1/2"}{1-1/2"}$	_	_	_	D
66	1	DUMP SINK MAKE UP AIR FAN	_	-	_	-	_	18"	1-1/2"		-	-	D
68.2 69	1	RANGE W/ CABINET BASE (4 BURNER)		_		-		-		VERIFY 132,000	WITH 3/4"	HVAC 18"	Н
70	2	HAND SINKS	1/2"	15"	1/2"	15"	1-1/2"	21"		-		-	A
70	2	FRYERS W/ FILTERS	-	-	-	-	-	<u> </u>	_	110,000	3/4"	18"	Н
72	1	TILT SKILLET	1/2"	15"	_	_	_	_	_	91,000	3/4"	18"	B,H
73	1	UPRIGHT BROILER		-	_	_	_	_	_	80,000	3/4"	18"	H
74	1	48" CHEESEMELTER	_	_	_	_	_	_	_	40,000	3/4"	76"	Н
75	1	72" GRIDDLE	_	_	_	_	_	_	_	168,000	, 3/4"	18"	Н
78	1	36" GRIDDLE	_	_	_	_	_	_	_	84,000	3/4"	18"	Н
84	1	HOT FOOD TABLE	1/2"	6"	_	_	_	18"	1 "	_	_	_	A,C
94	1	ICE MAKER W/ BIN	3/8"	54"	_	_	_	6"&60"	(2) 1/2"	-	-	-	B,C,O
95.2	1	MAKE UP AIR FAN	_	_	_	_	_	—	_	VERIFY	WITH	HVAC	Н
96	1	36" CHEESEMELTER	_	_	_	_	_	_	_	30,000	3/4"	76"	Н
98	1	4 BURNER RANGE	_	_	_	-	_	_	_	164,000	3/4"	18"	Н
101	2	FRYERS W/ FILTERS	_	_	—	_	_	_	_	70,000	3/4"	18"	Н
104	1	HOT FOOD TABLE	1/2"	6"	_	_	_	18"	1"	_	_	_	A,C
117	1	CHILLED WATER DISPENSER W/DRAINER	1/2"	6"	_	-	_	30"	1/2"	-	_	_	A,D,O
117A	1	DROP-IN ICE BIN	-	-	_	-	—	18"	1/2"	_	_	_	D
118	1	COFFEE BREWER	1/2"	46"	—	-	_	-	_	_	_		B,E
119	1	ICED TEA BREWER SODA & ICE DISPENSER	1/2"	46"	_	_	—	- 18"	1"	_	_	_	B,E
120 131	1	UNDERBAR ICE CHEST	_	_	_	-	_	18	1/2"&1"		_		D,E,G D,G
132	2	UNDERBAR FILLERS & DRAINBOARDS		_				12"	1"		_		D.
133		UNDERBAR DUMPSINKS W/GLASS RINSERS	(2) 1/2"	6"	1/2"	6"		12"	1-1/2"				A,D
134	3	COMB. ICE CHEST W/SPEED RAIL	(2) 1/2	-	-	-		12"	1/2"&1"	_	_	_	D,G
141	4	DRAINBOARD W/GLASS STORAGE		_	_	_	_	6"	1"	_	_	_	D
142	3	UNDERBAR HANDSINKS	1/2"	6"	1/2"	6"	1-1/2"	12"	_	_	_	_	A
143	1	CORNER FILLER & DRAINBOARD		_		_		12"	1 "	_	_	_	D
145	1	CORNER FILLER & DRAINBOARD	_	_	_	_	_	12"	1"	_	_	_	D
151	1	18IN X 30IN S/S CABINET	_	_	_	_	_	6"	1 "	_	-	_	D
152	1	GLASSWASHER	_	_	1/2"	6"	_	12"	2"	_	_	_	B,D,E
163	2	FLOOR TROUGH	_	—	—	_	_	AT FLOOR	3"	_	_	_	_
165	5	TRENCH DRAIN (BY PLUMBER)	_	—	_	_	_	AT FLOOR	3"	-	_	-	E
167	2	DRIP PAN W/ GLASS RINSER	1/2"	36"	_	_	_	38"	3/4"	_	_	-	B,D
170	LOT	DRAINER	_	_	_	_	-	38"	1"	_	_	_	D
171	1	WATER FILLER W/ FILTER	1/2"	15"	—	-	-	30"	1/2"	-	-	_	A,D,O
173	LOT	DRINK RAILS	_	—	_	_	_	38"	1"	_	_	—	D

ISSUE FOR PERMIT COPYRIGHT: CARR WARNER ARCHITECTS, LTD. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY, WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN PERMISSION AND CONSENT OF CARR WARNER ARCHITECTS, LTD. OWNER RELEASE: I HAVE REVIEWED THESE DRAWINGS FOR DESIGN INTENT AND HEREBY CERTIFY THAT THEY CONFORM IN ALL RESPECTS TO MY DESIGN CRITERIA AND ARE APPROVED. DATE THESE DRAWINGS MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENTLY THAN ORIGINALLY DRAWN. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR USE OF INCORRECT SCALE. DO NOT SCALE DRAWINGS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS. NO DATE DESCRIPTION 1 04.25.25 ISSUE FOR PERMIT CERTIFICATION: ANCHO AGAVE SUMMIT FAIR SHOPPING CENTER D-BUILDING 860-A NW BLUE PARKWAY LEE'S SUMMIT, MO 64086 ARC' ITECTS ARCHITECTURE INTERIORS PLANNING 3711 N. RAVENSWOOD SUITE #104 CHICAGO, ILLINOIS 60613 p 773∘477∘9009 f 773•477•6888 www.carrwarner.com UNDERGROUND PLUMBING SPOT PLAN SCALE: 3/16"=1' JOB NO: SHEET NO: ANCHO -SUMMIT FAIR K-3 DATE: 04.25.2025



- THIS PLAN IS FOR INFORMATION ONLY AND NOT FOR CONSTRUCTION PURPOSES. INFORMATION ON THIS SHEET IS TO REVIEWED BY THE OWNER, AND/OR ARCHITECT, AND INCORPORATED INTO THE BUILDINGS'
- MECHANICAL PLANS IN ACCORDANCE WITH LOCAL CODES.THE OWNER SHOULD SUBMIT THESE PLANS TO LOCAL BUILDING, HEALTH
- AND FIRE DEPARTMENT OFFICIALS FOR APPROVAL.

 ALL ROUGH IN WORK AND FINAL MECHANICAL CONNECTIONS (I.E.
- PLUMBING, ELECTRICAL, VENTILATION AND CONSTRUCTION) ARE TO BE BY OTHERS.
- K.E.C. WILL NOT BE RESPONSIBLE FOR DISCREPANCIES IN THE CONNECTIONS SHOWN FOR EQUIPMENT NOT SUPPLIED BY K.E.C. CONTRACTORS SHOULD VERIFY THESE CONNECTIONS WITH OWNER AND/OR SUPPLIER.
- CONTRACTORS TO MAKE USE OF ANY CONNECTIONS ALREADY INSTALLED IN EXISTING BUILDING WHENEVER POSSIBLE.
- CONTRACTORS TO PROVIDE AND INSTALL WALL BACKING FOR WALL SHELVES. WALL MOUNTED HANDSINKS, WALL MOUNTED COOKING EQUIPMENT, ETC. VERIFY THESE LOCATION WITH OWNER.
- FLOOR DRAINS AND/OR FLOOR SINKS SHOWN ARE RECOMMENDED LOCATIONS, MECHANICAL ENGINEER TO VERIFY CODE REQUIREMENTS
- ALL ELECTRICAL CONDUIT SHALL BE RUN ON TOP (EXTERIOR) OF
 WALK—IN & SHALL HAVE VAPOR SEALS ON INTERIOR & EXTERIOR OF CONDUIT.
- GENERAL CONTRACTOR SHALL FURNISH & INSTALL ROOF PAD FOR SECTION 114000 FURNISHED ROOFTOP REFRIGERATION RACK.



	PLUMBING SYMBOLS AND ABBREVIATIONS									
•	HW. CW.	HOT WATER LINE STUB COLD WATER LINE STUB								
Ō	DW.	WASTE CONNECTION								
•	FD	FLUSH FLOOR DRAIN AND GRATE								
₽	IND	INDIRECT WASTE DRAIN, HUB DRAIN, FLOOR DRAIN W/ FUNNEL OR SIMILAR. VERIFY WITH ARCHITECT								
	FS.	RECOMMENDED FLOOR SINK LOCATION. VERIFY WITH ARCHITECT.								
$ $ \Leftrightarrow	GAS	GAS SUPPLY STUB LINE								
	AFF. DFA.	ABOVE FINISHED FLOOR DOWN FROM ABOVE								

GAS CONNECTION DETAIL

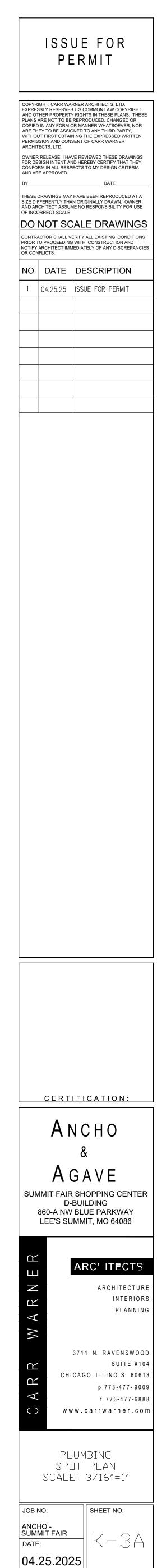
PLUMBING CONTRACTOR NOTES

- PROVIDE ALL LABOR AND MATERIALS TO COMPLETELY INSTALL THIS FOOD FACILITY. NO EXTRA CHARGES WILL BE ACCEPTED BY ADE RESTAURANT SERVICES, INC.
- ALL PLUMBING FIXTURES BY A.D.E. RESTAURANT SERVICES, INC., INCLUDE FAUCETS AND WASTE FITTINGS ONLY. PROVIDE AND INSTALL ALL "P" TRAPS, MANIFOLDS, DRAIN LINES, SHUT-OFFS, GREASE TRAPS & BACKFLOW PREVENTORS AS REQUIRED BY EQUIPMENT AND/OR LOCAL CODES.
- ALL KITCHEN, DINING ROOM AND BAR AREA WASTES ARE TO BE OPEN SITE IN FLOOR, UNLESS OTHERWISE SRECIFIED.
- IF WATER PRESSURE AT EQUIPMENT AREA EXCEEDS 40 P.S.I. FLOW PRESSURE, INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT AND COLD WATER SUPPLY LINES.
- LOCATE AND FURNISH ALL AREA FLOOR DRAINS UNLESS OTHERWISE SPECIFIED.
- PROVIDE AND SIZE ANY SOFTENING AND FILTERING EQUIPMENT THAT MAY BE REQUIRED UNLESS OTHERWISE SPECIFIED.
- DETERMINE SIZE OF GAS SUPPLY LINE REQUIRED FOR ALL GAS EQUIPMENT INCLUDING FOOD SERVICE EQUIPMENT.
- PLUMBER TO PROVIDE AND INSTALL BACKFLOW PREVENTORS ON ALL
- EQUIPMENT AS REQUIRED BY LOCAL CODE.
 ALL EXHAUST AND SUPPLY AIR SYSTEMS FOR EXHAUST HOODS TO BE TESTED AND BALANCED BY THE DIVISION 23 CONTRACTOR

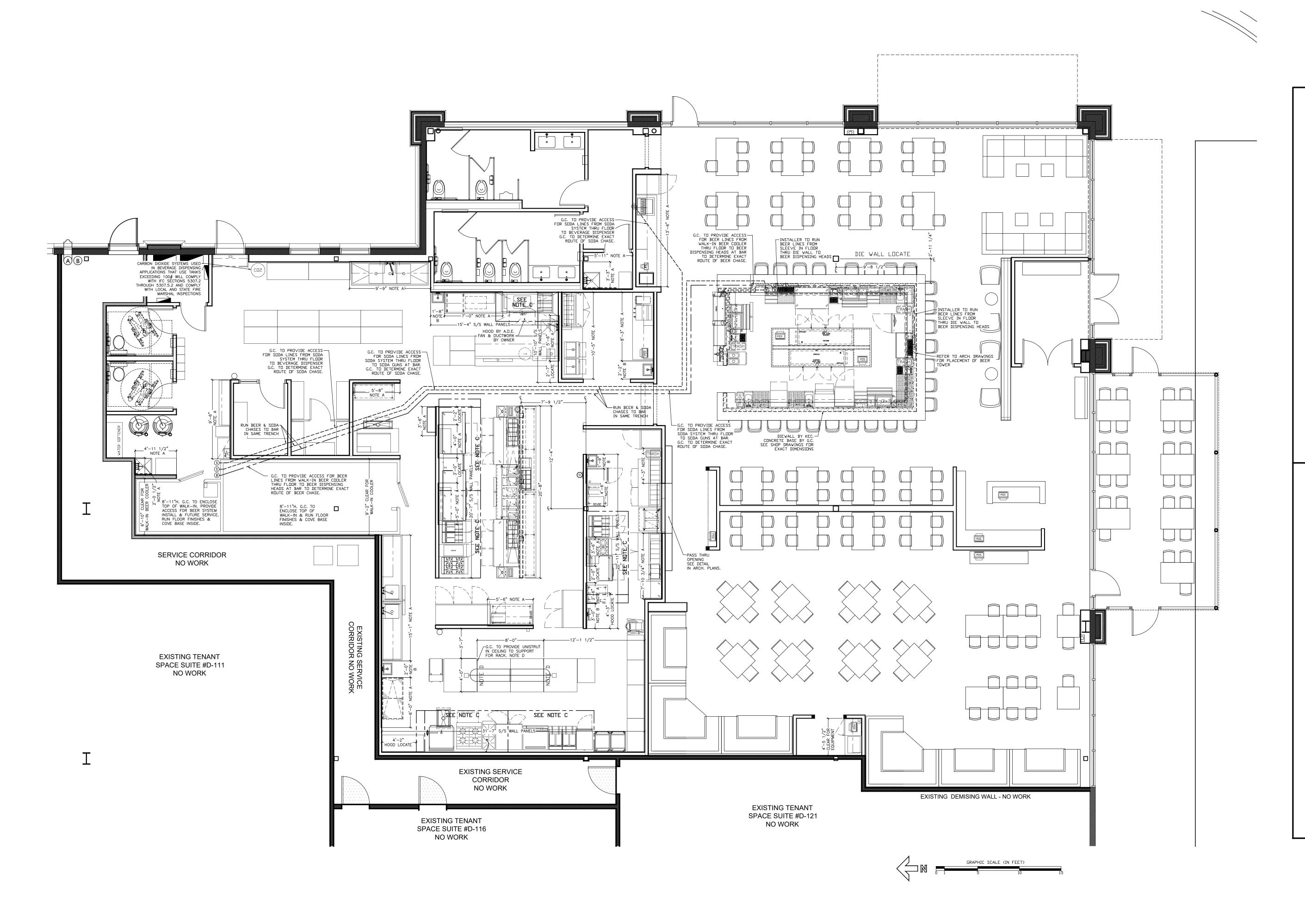
MECHANICAL REMARKS

- A. INSTALL FAUCET PROVIDED BY A.D.E., PROVIDE SHUT-OFF
- B. CONNECT TO EQUIPMENT. PROVIDE SHUT-OFF.
- C. MANIFOLD MULTIPLE DRAINS AND RUN TO O.S.D. (OPEN SITE DRAIN) AND OR GREASE TRAP. VERIFY WITH LOCAL PLUMBING CODES.
- D. RUN TO FLUSH FLOOR DRAIN, INDIRECT WASTE DRAIN OR
- 12"x12" FLOOR SINK. VERIFY WITH LOCAL PLUMBING CODES.E. EQUIPMENT NOT SUPPLIED BY A.D.E., VERIFY REQUIREMENTS
- WITH OWNER.
- F. MULTIPLE WATER CONNECTIONS
- G. PROVIDE ACCESS FOR CO2, BEER, AND/OR SODA LINES, VERIFY WITH VENDOR.
 H. A.D.E. TO PROVIDE FLEXIBLE GAS LINE AND RESTRAINING CABLE.
 THIS DEVICE WITH NOT EXCEED SIX FEET (c') IN LENCTH AND SHALL BE F
- THIS DEVICE WILL NOT EXCEED SIX FEET (6') IN LENGTH AND SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE. RESTRAINING DEVICES WILL ALSO BE PROVIDED TO LIMIT THE MOVEMENT OF EQUIPMENT AND PREVENT THE APPLIANCE CONNECTOR FROM BEING PULLED TO IT'S LIMITS. PLUMBER TO INSTALL AND PROVIDE SHUT-OFF.
- I. PLUMBER TO SUPPLY P.R.V. (PRESSURE REGULATING VALVE).
- J. PIPE TO DISHWASHER, INSTALL VALVES AND CONTROLS PROVIDED WITH EQUIPMENT.
- J1. PIPE FROM BOOSTER HEATER TO DISHWASHER, INSTALL VALVES AND CONTROLS PROVIDED WITH EQUIPMENT.
- SEE DETAILS ON THIS PAGE.
- K. LOCATE SHUT-OFF IN CABINET BASE AND PIPE TO EQUIPMENT ON TOP OF CABINET.
- L. FLEXIBLE WATER LINES PROVIDED BY A.D.E., INSTALLED BY PLUMBER.
- M. STUB OUT AT 12" A.F.F., INSTALL FAUCET ON OUTSIDE OF 6" DEEP S/S RETURN AIR PLENUM. SEE EXHAUST HOOD ELEVATION DETAIL ON PLAN K-4.
- N. INSTALL DRAIN VALVE ON OUTLET AND RUN TO O.S.D.
- 0. INSTALL FILTER SYSTEM PROVIDED WITH EQUIPMENT.
- P. MANIFOLD CONNECTIONS. PLUG ANY OPENING NOT USED.Q. INSTALL SECTION 114000 MECHANICAL FUEL SHUT OFF GAS VALVE
- FOR FURNISHED FIRE SUPRESSION SYSTEM UNDER DIVISION 22. NEEDS TO BE ACCESSIBLE AND SHALL NOT BE OCNCEALED IN WALLS FOR CEILING.

				PLl	JMBING	SCHE	DULE						
NO.	QTY.	DESCRIPTION	COLD WATER	HAFF	HOT WATER	HAFF	DIRECT WASTE	HAFF	INDIRECT WASTE	BTU'S	GAS	HAFF	REMAR
1A	1	BEER COOLER - NO FLOOR	_	-	_	_	_	78"	1"	_	_	_	D
6	1	SODA RACK	3/8"	66"	_	_	_	_	_	_	_	_	B,E,G
9A	2	WALK-IN COOLER (NO FLOOR)	-	_	—	_	-	78"	1"	-	_	_	D
19	1	36" CHEESEMELTER	_	_	_	_	-	_	_	40,000	1/2"	76"	Н
20	1	60" GRIDDLE		-	_	-	-	-	_	140,000	3/4"	18"	Н
23	5	HAND SINKS	1/2"	15"	1/2"	15"	1-1/2"	21"		_	_	-	A
29	1	MOBILE ICE BIN					_	6" 18"	1 - 1/2"	_	_	-	D,N
33	1	PREP TABLES W/ SINKS	1/2" 1/2"	15" 15"	1/2" 1/2"	15"	_	18	1 - 1/2"	_	_	-	A,D
33A 39	2	PREP TABLES W/ SINKS MOP SINK W/FAUCET	1/2	36"	1/2	36"	 1-1/2"	AT FLOOR	1-1/2"		_	_	A,D A,E
44	 1	THREE COMPARTMENT SINK	-		-		-	18"	(3) 1-1/2"			_	C A,L
45	1	PRE-RINSE SPRAY ARM	1/2"	15"	1/2"	15"	_	-	(3) 1 1/2	_	_	_	A
48	1	BOOSTER HEATER	-	-	1/2"	15"	_	_	_	_	_	_	B,E
49	1	WAREWASHER	_			_	_	6"	1-1/2"	_	_	_	D,E
51	1	SOILED DISHTABLE	1/2"	15"	1/2"	15"	_	18"	1-1/2"	_	_	_	A,D
52	1	TRENCH DRAIN	_	—	_	_	_	AT FLOOR	3"	-	-	-	E
58	1	FILL FAUCET	1/2"	48"	1/2"	48"	_	_	_	-	_	_	А
59	2	CONVECTION OVEN	_	—	_	_	-	_	_	50,000	3/4"	18"	H,P
60	1	RANGE W/ CONVECTION OVEN (4 BURNER)	_	—	_	_	_	_	_	225,000	1"	18"	Н
61	1	STOCK POT RANGE	_	_	_	_	_	_	_	160,000	3/4"	18"	Н
62	2	FRYERS	_	—	_	_	-		_	150,000	3/4"	18"	Н
64.2	1	MAKE UP AIR FAN	_	_	_	_	-	-	_	VERIFY	WITH	HVAC	Н
65	1	SILVER SINK	_		_	-	-	18"	1-1/2"	_	_	-	D
66	1	DUMP SINK	_	—	_	_	_	18"	1-1/2"	_	-	-	D
68.2	1	MAKE UP AIR FAN	_	-		-	_	-	_	VERIFY	WITH	HVAC	H
69 70		RANGE W/ CABINET BASE (4 BURNER) HAND SINKS	1/2"		1/2"	15"	 1-1/2"	21"	_	132,000	3/4"	18"	H
70	2	FRYERS W/ FILTERS		- 15	1/2	- 15				- 110,000			A H
72		TILT SKILLET	1/2"	15"			_			91,000	3/4"	18"	B,H
73	1	UPRIGHT BROILER	-	-	_	_	_	_		80,000	3/4"	18"	H
74	1	48" CHEESEMELTER	_		_	_	_	_		40,000	3/4"	76"	Н
75	1	72" GRIDDLE	_	_	_	_	_	_		168,000	3/4"	18"	Н
78	1	36" GRIDDLE	_	_	_	_	_	_	_	84,000	3/4"	18"	Н
84	1	HOT FOOD TABLE	1/2"	6"	_	_	_	18"	1"	_		_	A,C
94	1	ICE MAKER W/ BIN	3/8"	54"	_	_	_	6"&60"	(2) 1/2"	_	_	_	B,C,O
95.2	1	MAKE UP AIR FAN	_	—	_	_	_	_	_	VERIFY	WITH	HVAC	Н
96	1	36" CHEESEMELTER	_	—	_	_	_	_	_	30,000	3/4"	76"	Н
98	1	4 BURNER RANGE	—	—	—	_	—	—	_	164,000	3/4"	18"	Н
101	2	FRYERS W/ FILTERS	_	_	_	_	_			70,000	3/4"	18"	Н
104	1	HOT FOOD TABLE	1/2"	6"	_	_	-	18"	1 "	_	_	-	A,C
117	1	CHILLED WATER DISPENSER W/DRAINER	1/2"	6"	_	_	_	30"	1/2"	_	_	_	A,D,O
117A	1	DROP-IN ICE BIN		—	_	-	_	18"	1/2"	_	_	-	D
118	1	COFFEE BREWER	1/2"	46"	_	-	_		_	_	_	_	B,E
119	1		1/2"	46"	_	_	_	18"	1"	_	_	_	B,E
120 131	1	SODA & ICE DISPENSER UNDERBAR ICE CHEST	_	-	_	-		18	1/2"&1"	_		_	D,E,G D,G
132	2	UNDERBAR FILLERS & DRAINBOARDS		_				12"	1"		_	_	D,0
133	3	UNDERBAR DUMPSINKS W/GLASS RINSERS	(2) 1/2"	6"	1/2"	6"		12"	1-1/2"	_	_	_	A,D
134	.3	COMB. ICE CHEST W/SPEED RAIL	(2) 1/2	-	-	_	_	12"	1/2"&1"	_	_	_	D,G
141	4	DRAINBOARD W/GLASS STORAGE	_	_	_	_	_	6"	1"	_	_	_	D
142	3	UNDERBAR HANDSINKS	1/2"	6"	1/2"	6"	1-1/2"	12"		_	_	_	A
143	1	CORNER FILLER & DRAINBOARD	_	_		_	_	12"	1"	_	_	_	D
145	1	CORNER FILLER & DRAINBOARD	_	_	_	_	_	12"	1"	_	_	_	D
151	1	18IN X 30IN S/S CABINET	_	_	_	_	_	6"	1"	_	_	_	D
152	1	GLASSWASHER	_	_	1/2"	6"	_	12"	2"	_	_	_	B,D,E
163	2	FLOOR TROUGH	_	-	_	-	_	AT FLOOR	3"	_	_	-	_
165	5	TRENCH DRAIN (BY PLUMBER)	_	—	_	_	—	AT FLOOR	3"	-	—	—	E
167	2	DRIP PAN W/ GLASS RINSER	1/2"	36"	_	_	_	38"	3/4"	-	_	-	B,D
170	LOT	DRAINER	_	-	_	-	-	38"	1"	_	_	_	D
171	1	WATER FILLER W/ FILTER	1/2"	15"	_	-	-	30" 38"	1/2" 1"	_	_	-	A,D,O
173	LOT	DRINK RAILS	—										D



ARKS *.* . ·_____ -/



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- GENERAL CONTRACTOR SHALL FURNISH & INSTALL ROOF PAD FOR SECTION 114000 FURNISHED ROOFTOP REFRIGERATION RACK.

WALK-IN & SHALL HAVE VAPOR SEALS ON INTERIOR & EXTÉRIOR OF CONDUIT.

NOTE A:

FRAMING CONTRACTOR TO PROVIDE WOOD BACKING ON WALL 48" AFF TO 96" AFF TO SUPPORT WALL HUNG FOOD SERVICE EQUIPMENT, IN SPAN NOTED.

NOTE A1:

FRAMING CONTRACTOR TO PROVIDE WOOD BACKING ON WALL 48" AFF TO TOP OF WALL TO SUPPORT WALL HUNG FOOD SERVICE EQUIPMENT, IN SPAN NOTED.

NOTE B:

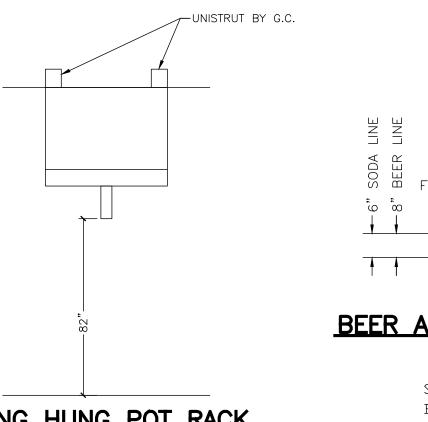
FRAMING CONTRACTOR TO PROVIDE WOOD BACKING ON WALL 30" AFF TO 48" AFF TO SUPPORT WALL HUNG FOOD SERVICE EQUIPMENT, IN SPAN NOTED.

NOTE C:

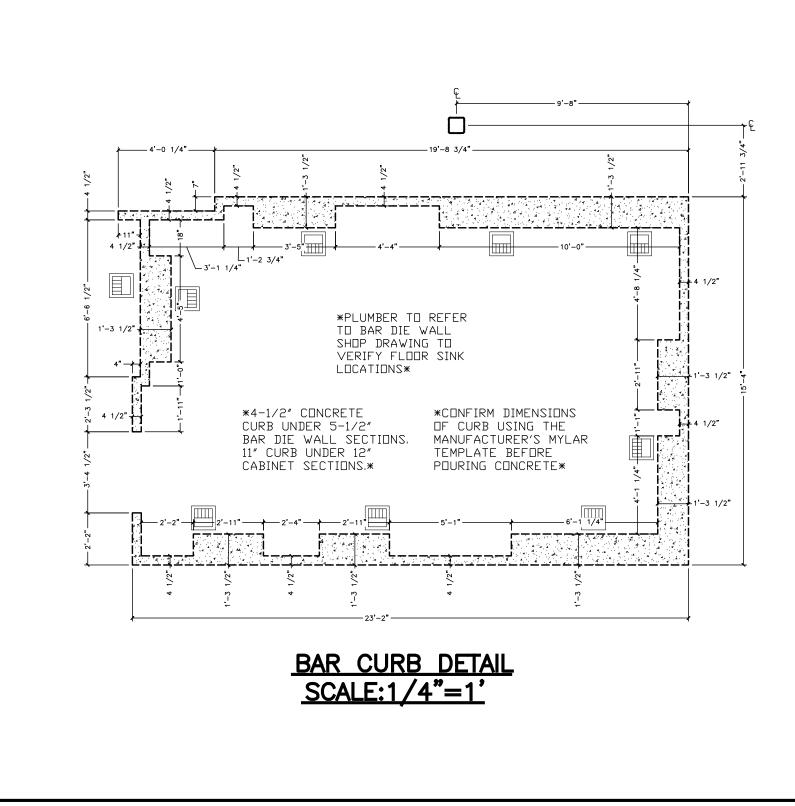
EXHAUST HOODS, S/S WALL PANELS, AND CONTROL CABINET TO BE PROVIDED BY KEC. THIS EQUIPMENT WILL BE SHIPPED TO JOB SITE FOR UNLOADING. PLACEMENT AND INSTALLATION BY HVAC. HVAC TO PROVIDE AND INSTALL ALL FANS & DUCTWORK. HVAC TO CHECK OUT & BALANCE SYSTEM AFTER INSTALLATION.

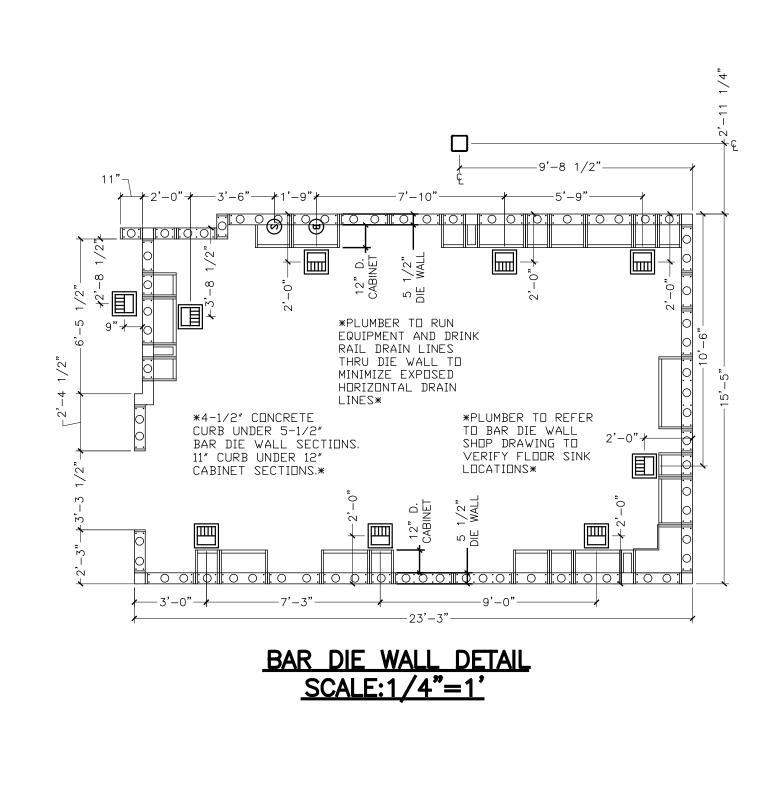
NOTE D:

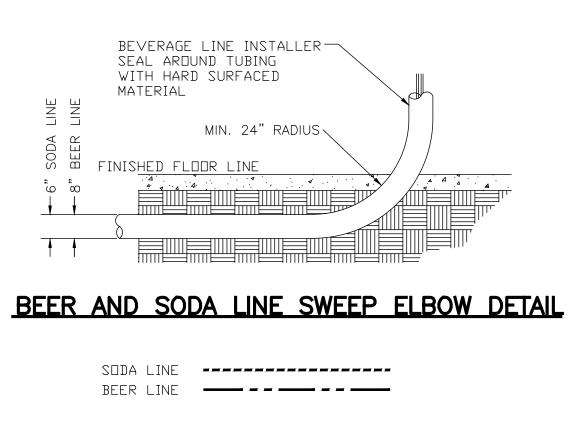
G.C. TO PROVIDE UNISTRUT ABOVE DROP CEILING FOR HANGING POT RACK. COORDINATE IN FIELD WITH A.D.E. INSTALLERS

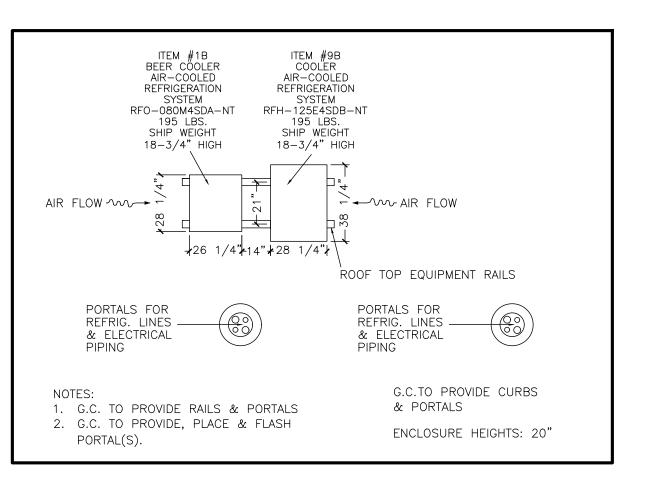


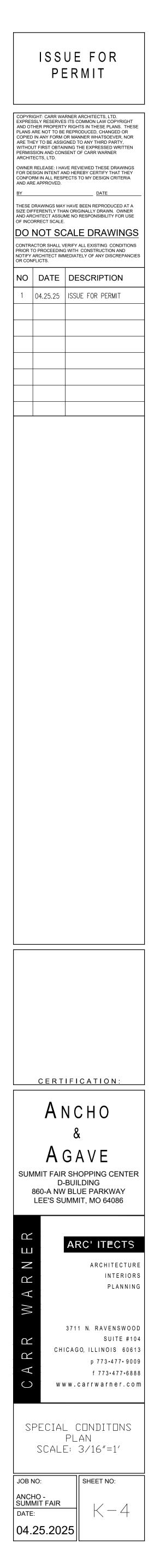
CEILING HUNG POT RACK











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			reg5		
) INF	<u>0RM/</u>	<u>4<i>TION</i></u>		<u> 10B</u> ‡
HOOD NO	TAG		DEL	MANUF	FACTL
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2	64L	N	024 D-2	САРТ	I∕EA
3	64R	N	024 D-2	CAPT	I∕EA
4	68L	N	024 D-2	САРТ	I∨EA
5	68R	N	024 D-2	САРТ	IVEA
6	95		024 D-2	CAPT	IVEA
<u>HOOL</u>) INF	ORM/	<u>4TION</u>		
HOOD NO	TAG		יד	YPE	
1	50				
2	64L	S		FLE W	ITH
3	64R	5		FLE W	ITH
4	68L	S		FLE W	ITH
5	68R	S	S BAFF	FLE W	ІТН
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HOOL HODD ND	<u>0P1</u>	TAG	>		
1		50		FIEL	
2		64L		BAL	KSPL# ANCE ER SE
3		64R		RISE RIGE SS.	ANCE ER SE HT \
4		68L		BAL	KSPL# ANCE ER SE
5		68R		FIEL BAL RISE RIGE	ANCE ER SE
6		95		SS. FIEL BAC RIGH	KSPL# HT G
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HOOD NO	LOCA.				

