GENERAL NOTES

1. THE TERM "OWNER" OR "TENANT" SHALL REFER TO OWNER/CLIENT AND HIS/HER AGENTS OR REPRESENTATIVES. THE TERM "GENERAL CONTRACTOR" AND "GC" SHALL REFER TO THE PERSON AND/OR PERSONS WHO HAVE CONTRACTED OR SUBCONTRACTED FOR THE WORK.

2. THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL REVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS WELL AS ALL OTHER PROVISIONS SPECIFICALLY INCLUDED BY THE OWNER IN THE FORM OF DRAWINGS, SPECIFICATIONS, AND WRITTEN INSTRUCTIONS.

3. GC SHALL VISIT JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE SUBMITTING BID. ANY DISCREPANCIES WITHIN THESE DRAWINGS AND/OR BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE GC PRIOR TO THE START OF ANY WORK. GC SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. IF THE CONTRACT DRAWINGS APPEAR TO BE UNCLEAR, AMBIGUOUS, OR CONTRADICTORY, THE CONTRACTOR MUST REQUEST CLARIFICATION FROM THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THAT PART OF THE WORK. IN CASE OF DISCREPANCIES OR CONFLICTS, NOTIFY ARCHITECT BEFORE PROCEEDING WITH ANY WORK.

4. GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE OWNERS REQUIREMENTS PRIOR TO BIDDING AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THESE REQUIREMENTS. ALL WORK SHALL BE PERFORMED AS TO COMPLY WITH ALL GOVERNING STATUTES, ORDINANCES, GOVERNMENTAL AND JURISDICTIONAL PERMITS AND APPROVALS AS OBTAINED. CONTRACTORS SHALL NOT SUBMIT A BID FOR THIS WORK UNLESS THEY ARE FULLY QUALIFIED AND LICENSED BY THE STATE IN WHICH THE WORK IS TO BE PERFORMED. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF.

5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING BUILDING PERMIT APPROVED PLANS AS APPROVED FOR ALL PERMIT REVISIONS AND OTHER CHANGES.

6. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY OF PERSONS, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, COMPLIANCE WITH STATE AND FEDERAL REGULATION REGARDING SAFETY AND COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS, AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY. INSURANCE: WORKMEN'S COMPENSATION, AS REQUIRED BY LAW, AND PUBLIC LIABILITY SHALL BE CARRIED BY THE CONTRACTOR.

7. SCOPE OF WORK: THE CONTRACTOR SHALL INCLUDE AND PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION AND PAY ALL EXPENSES INCURRED IN THE PROPER COMPLETION OF WORK UNLESS SPECIFICALLY NOTED TO BE THE WORK OF OTHERS. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY FOR PRODUCTION OF A COMPLETE, HABITABLE PROJECT, INCLUDING BUT NOT LIMITED TO SITE WORK, ARCHITECTURAL, ELECTRICAL, PLUMBING, MECHANICAL, SIGNAGE COORDINATION & UTILITY COORDINATION. STRUCTURAL STEEL & STRUCTURAL FRAMING BY OWNER.

8. GC SHALL COORDINATE ALL WORK TO BE PERFORMED. GC IS TO COORDINATE WORKING HOURS, DELIVERIES, TRASH REMOVAL, STORAGE, ETC. WITH OWNER. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND SAFETY PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.

9. THE ARCHITECT SHALL BE AVAILABLE TO VISIT THE SITE UPON REQUEST BY OWNER. IF A CONDITION EXISTS THAT REQUIRES OBSERVATION OR ACTION BY THE ARCHITECT OR ENGINEERS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT.

10. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS FOR ALL MEASUREMENTS. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS OTHERWISE NOTED.

11. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR INSTALL OR PERMIT TO BE INSTALLED ANY MATERIALS CONTAINING ASBESTOS WITHIN THE BUILDING OR ON THE PREMISES.

12. GENERAL CONTRACTOR SHALL PROVIDE AND PAY FOR TRASH DUMPSTER SERVICE AND/OR REFUSE REMOVAL FOR ALL SUB-CONTRACTORS WHICH INCLUDE MILLWORK, AND FOOD SERVICE. CONTACT TENANT COORDINATOR, LANDLORD OR MUNICIPALITY FOR COORDINATION OF APPROVED LOCATION(S) PER LOCAL REGULATIONS.

13. THE ABBREVIATION OF "NIC" INDICATES WORK AND OR MATERIALS THAT IS NOT IN THE CONTRACT OF THE GENERAL CONTRACTOR, HOWEVER THIS DOES NOT RELIEVE THE GC OF THE RESPONSIBILITY OF COORDINATION.

14. ALL CONCEALED WOOD BLOCKING IN WALLS AND CEILING SHALL BE TREATED AND FLAME RETARDANT.

15. ALL WALL AND CEILING CONSTRUCTION SHALL BE SUPPORTED BY STRUCTURE AND NOT BY ROOF DECK IF APPLICABLE.

16. N/A

17. PERMIT FEES SHALL BE SECURED BY OWNER. OWNER SHALL SECURE PERMITS AND FEES INCURRED IN THE COMPLETION OF THE PROJECT, INCLUDING BUT NOT LIMITED TO SUBCONTRACTOR PERMITS, WATER, ELECTRIC AND TELEPHONE SERVICE CONNECTION, CERTIFICATE OF OCCUPANCY SURVEYS AND INSPECTIONS.

18. PRIOR TO BEGINNING WORK THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND PROTECTING THEM FROM DAMAGE DURING CONSTRUCTION. SHOULD DAMAGE OCCUR THE CONTRACTOR SHALL MAKE REPAIRS AT NO COST TO THE OWNER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE OWNER AND WITH THE SUBCONTRACTOR FOR MECHANICAL, PLUMBING, AND ELECTRICAL TRADE. DRAWINGS WILL BE SUBMITTED FOR REVIEW AS NEEDED BY MUNICIPALITY. THE SUBCONTRACTOR WILL SUBMIT REQUIRED DRAWINGS FOR APPROVAL TO THE APPROPRIATE AGENCIES MEETING ALL CODES OF THE CITY AND STATE. REPRODUCIBLE APPROVED DRAWINGS MUST BE SENT TO THE OWNER AND ARCHITECT.

19. ITEMS NOT INDICATED IN THESE CONSTRUCTION DOCUMENTS THAT CAN BE LEGITIMATELY AND REASONABLY INFERRED TO COMPLETE THE WORK AT HAND SHALL BE FURNISHED BY THE CONTRACTOR AS THOUGH IT WERE DETAILED HEREIN.

20. THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT OF RECORD AND SHALL NOT BE REPRODUCED OR USED FOR ANY OTHER PURPOSE EXCEPT BY WRITTEN AGREEMENT.

21. THE CONTRACTOR WARRANTS TO THE OWNER AND BUILDING MANAGEMENT THAT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT WILL BE NEW UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK WILL BE GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS . ALL WORK NOT SO CONFORMING TO THESE STANDARDS MAY BE CONSIDERED DEFECTIVE. IT IS UNDERSTOOD THAT NO INFERIOR OR NON-CONFORMING WORK OF THE MATERIALS WILL BE ACCEPTED WHETHER DISCOVERED AT THE TIME THEY ARE INCORPORATED IN THE WORK OR AT ANY TIME BEFORE OR AFTER THE FINAL ACCEPTANCE. IF REQUIRED BY THE OWNER, THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND INSTALLATION OF MATERIALS.

22. THE WARRANTIES AND GUARANTEES PROVIDED IN THE CONSTRUCTION DOCUMENTS SHALL BE IN ADDITION TO AND NOT IN LIMITATION OF ANY OTHER WARRANTY AND GUARANTY OR REMEDY REQUIRED BY LAW OR THE CONSTRUCTION DOCUMENTS.

23. **GUARANTEE:** THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, AND WORKMANSHIP FURNISHED OR INSTALLED BY HIM/HER OR THEIR SUBCONTRACTORS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPLACE ANY DEFECTIVE WORK WITHIN THAT PERIOD WITHOUT EXPENSE TO THE OWNER AND PAY FOR ALL DAMAGES TO OTHER PARTS OF THE BUILDING RESULTING FROM DEFECTIVE WORK OR ITS REPAIR. THE CONTRACTOR SHALL REPLACE DEFECTIVE WORK WITHIN TEN (10) DAYS AFTER IT IS BROUGHT TO HIS/HER ATTENTION.

24. **PROTECTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER WORK AND THAT OF THEIR SUBCONTRACTORS FOR LOSSES AND DAMAGES TO EQUIPMENT, TOOLS, AND MATERIAL USED IN CONJUNCTION WITH THE WORK AND FOR ACTS OF HIS/HER EMPLOYEES.

25. **CLEANING UP:** THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH AND AT COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE ALL RUBBISH, IMPLEMENTS, AND SURPLUS MATERIALS AND LEAVE THE BUILDING CLEAN, WITH PAINTED AND WOOD SURFACES CLEAN, ALL FLOORS WAXED AND/OR POLISHED AS SPECIFIED, AND ALL GLASS AND MIRRORS CLEANED AND POLISHED.

26. CONTRACTOR IS TO PROVIDE A LIST OF ALL SUBCONTRACTORS USED TO THE OWNER, COMPLETE WITH ADDRESSES, PHONE NUMBERS, AND COPIES OF ALL WARRANTIES.

27. OWNER SHALL HAVE ACCESS TO PROJECT FOR COMPLETION OF WORK BY OWNER.

PROJECT INFORMATION

PROJECT ADDRESS:
600 Lofts Drive
West Windsor, NJ

PROJECT DESCRIPTION / SCOPE:

THE INTENT OF THE SCOPE CONTAINED WITHIN THESE DOCUMENTS RELATES TO A NEW FREE STANDING RESTAURANT BUILDING SHELL AND INTERIORS.
PROJECT WORK INCLUDES BUT IS NOT LIMITED TO:
NEW STRUCTURAL FOOTINGS AND SLAB, STRUCTURAL STEEL AND WOOD FRAMING PERFORMED BY OWNER, NEW ROOF TOP HVAC AND EXHAUST, INTERIOR FINISHES, INTERIOR FURNISHINGS, AND KITCHEN EQUIPMENT.

NEW SITE IMPROVEMENTS, UNDERGROUND UTILITIES, UNDERGROUND GREASE WASTE INTERCEPTOR, ASPHALT PAVING, CONCRETE SITEWORK, PARKING STRIPING, LANDSCAPING UNDER SEPARATE PERMIT.

PROPOSED USE:	RESTAURANT
TYPE OF CONSTRUCTION:	VB
OCCUPANCY CLASSIFICATION:	A2
TOTAL OCCUPANT LOAD:	456 SEE OCCUPANCY & EGRESS PLAN / CODE SUMMARY SHEET FOR CALCULATIONS
SPRINKLERED BUILDING:	YES NFPA 13
AREA LIMITATIONS:	TYPE: VB OCCUPANCY: A2 FULLY SPRINKLED: YES NFPA 13
ALLOWABLE AREA:	MAX AREA PER CODE: 60,000 SF
ALLOWABLE HEIGHT AND NO. STORIES:	40' - 0" (1 STORY)

ACTUAL AREA:

GROSS CONDITIONED BUILDING AREA	8424 SF
PATIO	1302 SF
TOTAL GROSS AREA	9726 SF

ACTUAL TOTAL HEIGHT:	28' - 0"
ACTUAL TOTAL NO. STORIES:	1 STORY

APPLICABLE BUILDING CODES

CODE ENFORCEMENT JURISDICTION: WEST WIDSOR NJ

BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION
FIRE CODE:	2021 INTERNATIONAL FIRE CODE
PLUMBING CODE:	2021 NATIONAL STANDARD PLUMBING CODE, NEW JERSEY EDITION
ELECTRICAL CODE:	2020 NATIONAL ELECTRIC CODE
MECHANICAL CODE:	2021 INTERNATIONAL MECHANICAL CODE
GAS CODE:	2021 INTERNATIONAL FUEL CODE
ENERGY CODE:	ASHRAE 90.1-2019 (COMMERCIAL & ALL OTHER RESIDENTIAL)
ACCESSIBILITY CODE:	2021 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION, CHAPTER 11 & THE ICC A117-2017 AS AMENDED

SEPERATE & DEFERRED SUBMITTALS

1. DOCUMENTATION FOR DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE GOVERNING JURISDICTION FOR APPROVAL AND HAVE BEEN FOUND TO BE IN CONFORMANCE TO THE DESIGN OF THE BUILDING. DEFERRED SUBMITALS SHALL NOT BE INSTALLED UNTIL SUCH DOCUMENTATION IS APPROVED BY THE GOVERNING JURSIDICTION.

   A. SEPERATE & DEFERRED SUBMITTAL:
      1. FIRE SUPPRESSION (SPRINKLER SYSTEM NFPA13 REQUIRED)
      2. KITCHEN HOOD SUPPRESSION SYSTEM (ANSUL SYSTEM) BY OWNER
      3. FIRE ALARM AND PA SYSTEM
      4. SIGNAGE BY OWNER
      5. CIVIL & LANDSCAPING UNDER SEPERATE REVIEW AND PERMIT

FIRE PROTECTION NOTES

1. THIS SPACE IS REQUIRED TO BE PROVIDED WITH AN AUTOMATIC WET PIPE SPRINKLER SYSTEM. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE MODIFICATION AND DESIGN, PROVIDING A NEW LAYOUT, AND ALL MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM FOR THE PROPOSED TENANT FINISH OF THIS SPACE. CONTRACTOR SHALL PREPARE ALL NEEDED DRAWINGS AND HAVE APPROVAL OF ALL STATE, LOCAL & INSURANCE UNDERWRITING AUTHORITIES AS WELL AS MEETING ALL N.F.P.A 13 REQUIREMENTS. THE SPRINKLER SYSTEM SHALL BE PRESSURE TESTED BY FIRE PROTECTION CONTRACTOR, INSPECTED AND APPROVED BY LOCAL FIRE MARSHALL PRIOR TO ACCEPTANCE BY OWNER. CONSULT WITH LANDLORD REPRESENTATIVE FOR EXACT EXISTING CONDITIONS OF FIRE PROTECTION SYSTEM FOR LOCATION, CONNECTION POINT, SIZE, TYPE, ETC. PROVIDE SIGNED AND SEALED DRAWINGS AS REQUIRED TO THE LOCAL AUTHORITY. DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER EMPLOYED BY FIRE PROTECTION CONTRACTOR, WHO IS IN RESPONSIBLE CHARGE OF THIS WORK.

2. (IF REQUIRED) FIRE SPRINKLER PROTECTION PLANS SHALL BE SUBMITTED AND APPROVED BY THE DEPARTMENT OF BUILDING SAFETY BEFORE THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY IS GRANTED. GENERAL CONTRACTOR TO OBTAIN AND SUBMIT FIRE SPRINKLER PROTECTION PLANS AS REQUIRED.

3. ALL SPRINKLER SYSTEMS ARE REQUIRED TO HAVE A DATA NAME PLATE POSTED AND MAINTAINED AT EACH RISER SPRINKLER SYSTEM SHALL BE INSTALLED TO COMPLY WITH MINIMUM N.F.P.A. CRITERIA AND CITY ORDINANCE CRITERIA.

4. SPRINKLER HEADS IN PUBLIC VIEWABLE AREA MUST BE APPROVED. SURFACE MOUNTED HEADS ARE PERMITTED IN AREAS NOT VISIBLE TO CUSTOMER.

5. INSTALLATION OF A MANUAL OR AUTOMATIC FIRE ALARM SYSTEM SHALL BE DETERMINED BY THE LOCAL MUNICIPALITY IN ACCORDANCE WITH THE LOCAL FIRE CODE. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PLANS, PERMITS, AND ALL WORK REQUIRED FOR INSTALLATION OF THE FIRE ALARM SYSTEM.

6. ALARM INITIATING DEVICES, ALARM SIGNALING DEVICES, AND OTHER FIRE ALARM SYSTEM COMPONENTS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH LOCAL FIRE CODE STANDARDS.

7. WHEN DUCT DETECTORS, REQUIRED BY CODE, ARE CONCEALED FROM VIEW, AN L.E.D. SHALL BE PROVIDED THROUGH THE CEILING LEVEL OR SIGHT OBSTRUCTION AT EACH DETECTOR. WHEN A COMPLETE SMOKE DETECTION SYSTEM IS PROVIDED, THE DUCT DETECTORS SHALL BE MONITORED BY THAT SYSTEM.

8. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED AND INSTALLED. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS AS REQUIRED AND LOCATED BY THE FIRE MARSHAL AND IN ACCORDANCE W/ NFPA STANDARDS.

9. EXIT AND EMERGENCY LIGHTING SHALL COMPLY WITH CITY ORDINANCES AND LOCAL FIRE CODE.

PROJECT DIRECTORY

PROPERTY OWNER:
PEMBROKE REALTY
4433 CORPORATION LANE, SUITE 250
VIRGINIA BEACH, VA 23462

TRAVIS BODE
VP OF DEVELOPMENT
EMAIL: tbode@pembrokerealty.com
TELEPHONE: 757-490-3141

DESIGN TEAM:
ARCHITECTURE:
INNOVATION & DESIGN in ARCHITECTURE
218 The Promenade North
LONG BEACH, CA 90802

ARCHITECT OF RECORD:
GEOFF LIM
geoff@idaexperience.com
562.206.7720

PROJECT MANAGER:
WESLEY STEPHENS
wesley@idaexperience.com
562.206.7720

OWNER VENDOR:
LIGHTING / DIMING SPECIFICATION & DESIGN:
VILLA LIGHTING
296 S. INDIAN CANYON DR.
PALM SPRINGS, CA 92262

JAMES ALTO
314.633.0588
james.alto@villalighting.com

LOW VOLTAGE DESIGN:
DAVID GONZALES
dgonzales@oic-inc.com
972.386.3287 x101

TENANT:
FOGO DE CHAO
14850 QUORUM DRIVE, SUITE 500
DALLAS, TX 75254

DAVID SNOW
VICE PRESIDENT OF CONSTRUCTION
EMAIL: dsnow@fogo.com
PHONE: 720-350-0076

ENGINEERING TEAM:
CIVIL ENGINEERING:
KENSINGTON
700 COMMERCE DRIVE SUITE 130
OAK BROOK, IL 60523

FRANCISCO GARCIA
francisco@kensingtondev.com
PHONE: 630.566.2181

PLUMBING, MECHANICAL, ELECTRICAL ENGINEERING:
NEW RIDGE ENGINEERING

TUCKER MATHEWS
tucker@newridgeengineering.com
PHONE: 804.356.2470

STRUCTURAL ENGINEERING:
IMEG
370 E. WINDMILL LANE, SUITE 100
LAS VEGAS, NV 89123

KRIS BARKER
kris.m.barker@imegcorp.com
PHONE: 725.896.2110
DIRECT: 725.235.9076
MOBILE: 210.957.9343

STRUCTURAL SHELL CONSULTANT:
AEQ CONSULTING

PARIS RICCIARDI
EMAIL: PARIS@AEQCONSULTING.CA
PHONE: 415.215.0013

KITCHEN EQUIPMENT:
TEXAS METALS CO

STEPHEN NACHTIGALL
EMAIL: STEPHEN@TOPSHELFDESIGNGROUP.COM
PHONE: 972.977.6497

SIGNAGE:
JOE MUELLER
j.mueller@firstandmainsigns.com
949.683.8768

FOGO DE CHAO
WEST WINDSOR, NJ

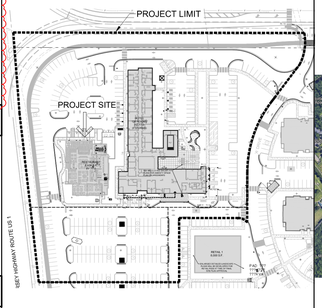
600 Lofts Drive
West Windsor, NJ

NEW CONSTRUCTION - GROUND UP

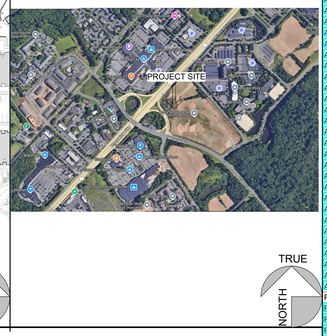
ISSUE FOR: PERMIT
ISSUE DATE: 07/01/2025



LOCATION MAP



SITE VICINITY MAP



SYMBOLS LEGEND

ELEVATION MARKER
1 / A101 / 1 / 1 — VIEW REFERENCE; SHEET REFERENCE

SECTION /DETAIL MARKER
1 / A101 — DIRECTION INDICATOR; VIEW REFERENCE; SHEET REFERENCE

DETAIL MARKER
1 / A101 — VIEW REFERENCE; SHEET REFERENCE

NORTH ARROW
PLAN NORTH; TRUE NORTH

ROOM MARKER
Room name — ROOM NAME
101 — ROOM NUMBER
1 — KEYNOTE TAG
A12 — WALL TYPE
000 — DOOR NUMBER
A — WINDOW / STOREFRONT TYPE
X-1 — FINISH / MATERIAL TAG

ELEVATION MARKER
B.O. BEAM 0'-0" A.F.F. — ELEVATION DESCRIPTION; HEIGHT A.F.F.

CEILING MARKER
GYP. BD. 1'-0"A.F.F. — XXX-1 — CEILING MATERIAL w/ FINISH REFERENCE; CEILING HEIGHT A.F.F.

CIVIL ENGINEERING UNDER SEPARATE PERMIT

SHEET INDEX

SHEET NO.	SHEET NAME	CURRENT REVISION	REVISION DATE	REVISION DESCRIPTION
GENERAL				
G0.0	COVER SHEET	2	9/19/25	PERMIT SET
G1.0	OCCUPANCY EGRESS PLAN & CODE SUMMARY	2	9/19/25	PERMIT SET
G1.1	BUILDING ENVELOPE COMPLIANCE			
G1.2	BUILDING ENVELOPE COMPLIANCE			
G2.0	ACCESSIBILITY NOTES & DETAILS	2	9/19/25	PERMIT SET
STRUCTURAL				
S0.00	GENERAL NOTES			
S0.01	GENERAL NOTES			
S0.02	INSPECTION NOTES			
S2.00	FOUNDATION PLAN			
S2.01	CANOPY FRAMING PLAN			
S2.02	ROOF FRAMING PLAN			
S3.00	TYPICAL FOUNDATION SECTIONS AND SCHEDULES			
S3.01	FOUNDATION SECTIONS			
S5.00	TYPICAL STEEL SECTIONS			
S5.01	STEEL SECTIONS			
S5.10	STEEL FRAME ELEVATIONS			
S6.00	TYPICAL WOOD SECTIONS			
S6.01	WOOD SECTIONS			
S6.02	WOOD SECTIONS			
ARCHITECTURAL				
A0.0	RESPONSIBILITY MATRIX	2	9/19/25	PERMIT SET
A0.1	MATERIALS KEY AND SCHEDULES	2	9/19/25	PERMIT SET
A0.2	DOOR SCHEDULE	2	9/19/25	PERMIT SET
A0.4	WINDOW SCHEDULE	2	9/19/25	PERMIT SET
A0.6	PARTITION TYPES	2	9/19/25	PERMIT SET
A0.7	PARTITION DETAILS	2	9/19/25	PERMIT SET
A0.8	PARTITION ASSEMBLIES			
A1.0	SLAB PLAN	2	9/19/25	PERMIT SET
A1.1	NOTED FLOOR PLAN	2	9/19/25	PERMIT SET
A1.2	DIMENSIONED FLOOR PLAN	2	9/19/25	PERMIT SET
A1.3	ROOF PLAN	2	9/19/25	PERMIT SET
A1.4	ROOF DETAILS	2	9/19/25	PERMIT SET
A1.5	ARCHITECTURAL SITE PLAN	2	9/19/25	PERMIT SET
A1.6	SITE UTILITY PLAN			
A1.7	ENLARGED RESTROOM PLANS & ELEVATIONS	2	9/19/25	PERMIT SET
A1.8	ENLARGED RESTROOM PLANS & ELEVATIONS	2	9/19/25	PERMIT SET
A1.9	ENLARGED PLANS - EMPLOYEE RESTROOM	2	9/19/25	PERMIT SET
A1.10	ENLARGED PLANS	2	9/19/25	PERMIT SET
A2.0	REFLECTED CEILING PLAN	2	9/19/25	PERMIT SET
A2.1	MECHANICAL COORDINATION CEILING PLAN			
A2.2	CEILING DETAILS			
A2.3	CEILING DETAILS			
A3.0	FLOOR PATTERN PLAN	2	9/19/25	PERMIT SET
A4.0	EXTERIOR ELEVATIONS	2	9/19/25	PERMIT SET
A4.1	EXTERIOR ELEVATIONS			
A4.2	EXTERIOR ELEVATIONS			
A4.3	EQUIPMENT SLIGHTLINE ELEVATION			
A5.0	INTERIOR ELEVATIONS	2	9/19/25	PERMIT SET
A5.1	INTERIOR ELEVATIONS	2	9/19/25	PERMIT SET
A5.2	INTERIOR ELEVATIONS	2	9/19/25	PERMIT SET
A5.3	INTERIOR ELEVATIONS			
A5.4	INTERIOR ELEVATIONS			
A5.5	INTERIOR ELEVATIONS	2	9/19/25	PERMIT SET
A5.6	INTERIOR ELEVATIONS	2	9/19/25	PERMIT SET
A6.0	BUILDING SECTIONS			
A6.1	WALL SECTIONS	2	9/19/25	PERMIT SET
A6.2	WALL SECTIONS	2	9/19/25	PERMIT SET
A6.3	WALL SECTIONS	2	9/19/25	PERMIT SET
A6.4	WALL SECTIONS	2	9/19/25	PERMIT SET
A6.5	WALL SECTIONS	2	9/19/25	PERMIT SET
A7.0	BUILDING DETAILS			
A7.1	BUILDING DETAILS	2	9/19/25	PERMIT SET
A7.2	BUILDING DETAILS	2	9/19/25	PERMIT SET
A7.3	BUILDING DETAILS	2	9/19/25	PERMIT SET
A7.4	BUILDING DETAILS			
A8.0	FIXTURE & FURNITURE PLANS	2	9/19/25	PERMIT SET
A8.1	FIXTURE & FURNITURE SCHEDULES	2	9/19/25	PERMIT SET
A9.0	MILLWORK DETAILS	2	9/19/25	PERMIT SET
A9.1	MILLWORK DETAILS			
A9.2	MILLWORK DETAILS			
A9.3	MILLWORK DETAILS	2	9/19/25	PERMIT SET
A9.4	MILLWORK DETAILS			
A10.0	ENVIRONMENTAL GRAPHICS & ARTWORK			
FOOD SERVICE				
FS1	FOODSERVICE EQUIPMENT FLOOR PLAN			
FS2	FOODSERVICE ELECTRICAL ROUGH-IN PLAN			
FS2.1	FOODSERVICE ELECTRICAL SCHEDULE AND DETAILS			
FS3	FOODSERVICE PLUMBING ROUGH-IN PLAN			
FS3.1	FOODSERVICE DRAIN ROUGH-IN PLAN			
FS3.2	FOODSERVICE PLUMBING NOTES AND DETAILS			
FS4	FOODSERVICE VENTILATION REQUIREMENTS PLAN			
FS5	FOODSERVICE SPECIAL CONDITIONS PLAN			
FS6	FOODSERVICE CRITICAL DIMENSION PLAN			
FS7	FOODSERVICE EQUIPMENT ELEVATIONS			
FS8	FOODSERVICE EQUIPMENT ELEVATIONS			
FS9	EXHAUST HOOD DRAWINGS			
FS9.1	EXHAUST HOOD DRAWINGS			
FS9.2	EXHAUST HOOD DRAWINGS			
FS9.3	EXHAUST HOOD DRAWINGS			
FS9.4	EXHAUST HOOD DRAWINGS			
FS9.5	EXHAUST HOOD DRAWINGS			
FS9.6	EXHAUST HOOD DRAWINGS			
FS9.7	EXHAUST HOOD DRAWINGS			
FS10	WALK-IN DRAWINGS			
PLUMBING				
P1.0	PLUMBING LEGEND AND NOTES	2	9/17/25	PERMIT SET
P1.1	PLUMBING SCHEDULES	2	9/17/25	PERMIT SET
P1.2	PLUMBING SPECIFICATIONS	2	9/17/25	PERMIT SET
P1.3	PLUMBING SPECIFICATIONS	2	9/17/25	PERMIT SET
P2.1	PLUMBING DOMESTIC & NATURAL GAS NEW WORK PLAN	2	9/17/25	PERMIT SET
P3.1	PLUMBING DRAINAGE NEW WORK PLAN	2	9/17/25	PERMIT SET
P3.2	PLUMBING ROOF NEW WORK PLAN	2	9/17/25	PERMIT SET
P4.1	PLUMBING RISER DIAGRAMS	2	9/17/25	PERMIT SET
P5.1	PLUMBING DETAILS	2	9/17/25	PERMIT SET
P5.2	PLUMBING DETAILS	2	9/17/25	PERMIT SET
MECHANICAL				
M1.0	MECHANICAL LEGEND AND NOTES	2	9/17/25	PERMIT SET
M1.1	MECHANICAL SCHEDULES	2	9/17/25	PERMIT SET
M1.2	MECHANICAL SPECIFICATIONS	2	9/17/25	PERMIT SET
M2.1	MECHANICAL DUCTWORK NEW WORK PLAN	2	9/17/25	PERMIT SET
M2.2	MECHANICAL ROOF NEW WORK PLAN	2	9/17/25	PERMIT SET
M3.1	MECHANICAL PIPING NEW WORK PLAN	2	9/17/25	PERMIT SET
M4.1	MECHANICAL DETAILS	2	9/17/25	PERMIT SET
ELECTRICAL	MECHANICAL DETAILS	2	9/17/25	PERMIT SET
E1.0	ELECTRICAL LEGEND AND NOTES	2	9/17/25	PERMIT SET
E1.1	ELECTRICAL SCHEDULES	2	9/17/25	PERMIT SET
E1.2	ELECTRICAL SPECIFICATIONS	2	9/17/25	PERMIT SET
E1.3	ELECTRICAL SPECIFICATIONS	2	9/17/25	PERMIT SET
E1.4	ELECTRICAL SPECIFICATIONS	2	9/17/25	PERMIT SET
E1.5	ELECTRICAL SPECIFICATIONS	2	9/17/25	PERMIT SET
E2.1	ELECTRICAL POWER NEW WORK PLAN	2	9/17/25	PERMIT SET
E2.2	ELECTRICAL ROOF NEW WORK PLAN	2	9/17/25	PERMIT SET
E3.1	ELECTRICAL LIGHTING NEW WORK PLAN	2	9/17/25	PERMIT SET
E7.1	ELECTRICAL DETAILS	2	9/17/25	PERMIT SET
E8.1	ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES	2	9/17/25	PERMIT SET
E8.2	ELECTRICAL PANEL SCHEDULES	2	9/17/25	PERMIT SET
LOW VOLTAGE				
VS.100	VIDEO SURVEILLANCE SYSTEM PLAN			
INT.100	INTRUSION ALARM SYSTEM PLAN			
T.100	TECHNOLOGY SYSTEM PLAN			
AV.100	AV SYSTEM PLAN			
T.D1	TV DETAILS			
T.D2	DATA RACK DETAILS			

Design Consultant:

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Engineering Consultant:

Stamp:

07/03/20

Project Owner:
FOGO DE CHÃO

NEW CONSTRUCTION - GROUND UP
FOGO DE CHÃO - WEST WINDSO

RESPONSIBILITY MATRIX

DIVISION 1 - GENERAL DEVELOPMENTS

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
BUILDING RISK INSURANCES	●	●									
BUILDING REVIEW FEE	●	●									
UTILITY CONNECTION FEES	●	●									
WATER/SEWAGE TAP FEES	●	●									
SURVEY	●	●									LAYOUT & STAKING BY GC
TEMP. FACILITIES & CONTROLS					●	●					
TESTING, ADJUSTING & GRADING OF SYSTEMS					●	●					
PROGRESS & FINAL CLEANING					●	●					
SIGN PERMIT							●	●			
SIGN PLAN CHECK FEE							●	●			

DIVISION 2 - SITE WORK

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
DEMOLITION					●						
SOIL TREATMENT					●	●					
PAVING										●	VERIFY WITH FOGO ABOUT LL WORK LETTER
CONSTRUCTION TEMPORARY FENCING					●	●					

DIVISION 3 - CONCRETE

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
CAST IN PLACE CONCRETE					●	●					
CONCRETE (WITH SCORED/TOOL JOINTS)										●	
CONCRETE UNIT MASONRY										●	
CAST STONE										●	
STONE VENEER										●	
CAULKING BETWEEN CURB/SIDEWALK (CURB-IN)					●	●					
CURBS AT WET WALLS					●	●					INTERIOR WALLS EXCLUDED

DIVISION 5 - METALS

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
STRUCTURAL ELEMENTS	●	●									AEQ CONSULTING, GC CAN BID ALTERNATE
METAL FABRICATIONS					●	●					
BAR DIE WALL INCL. STEEL SUPPORT					●	●					
ARCHITECTURAL (ORNAMENTAL) METALS					●	●					
BAR METAL BASE & TRIMS					●	●					REFERENCE FINISH SPEC SECTION
BAR FOOTREST					●	●					REFERENCE FINISH SPEC SECTION
TILE METAL TRIMS					●	●					REFERENCE FINISH SPEC SECTION

DIVISION 6 - WOOD

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
ROUGH CARPENTRY	●	●									AEQ CONSULTING
PRE-FAB WALL PANELS	●	●									AEQ CONSULTING
TRUSSES, JOISTS, GLULAMS	●	●									AEQ CONSULTING
FINISH CARPENTRY					●	●					
MILLWORK						●	●				REFER TO MILLWORK DETAIL SHEETS FOR FULL INFORMATION ON ITEMS PROVIDED BY FOGO FOR GC TO INSTALL
BAR DIE WALL					●	●					
FIBERGLASS REINFORCED PANELS (FRP)					●	●					

DIVISION 7 - THERMAL & MOISTURE PROTECTION

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
BUILDING INSULATION					●	●					
FOAM					●	●					
BUILT UP ROOFING					●	●					
METAL ROOFING										●	
LEADER/LEAD & DOWNSPOUTS					●	●					
ROOF					●	●					
SEALANTS & CAULKING					●	●					
BUILDING WRAP					●	●					

DIVISION 8 - DOORS & WINDOWS & HARDWARE

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
STEEL DOORS & FRAMES					●	●					
WOOD DOORS					●	●					TOILET DOORS FURNISHED BY OWNER VENDOR - GC TO PROVIDE HARDWARE PER SCHEDULE
ACCESS PANELS					●	●					
ALUMINUM ENTRANCE & S.F. / CURTAIN WALL					●	●					
OPERABLE PARTITION DOORS					●	●					
FINISH HARDWARE					●	●					
GLASS & GLAZING					●	●					
HARDWARE					●	●					
DOOR THRESHOLDS & FLOOR TRANSITIONS					●	●					

DIVISION 9 - FINISHES

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
GYPSUM BOARDS					●	●					
QUARRY TILE (IF PRESENT)										●	
CERAMIC/ PORCELAIN TILES FLOORING					●	●					
CERAMIC/ PORCELAIN TILES WALLS					●	●					
STONE THRESHOLDS					●	●					
LAY-IN CEILING TILES					●	●					
SOLID SURFACE COUNTERS					●	●					MILLWORK PROVIDES POS & HOST
RESIN FLOORING (EPOXY / MMA, ETC.)					●	●					
PAINTING					●	●					
ACOUSTIC CEILING BOARD					●	●					
GRAPHIC ART	●	●									GC TO PREP WALL TO VENDOR SPEC.
BRICK & STONE VENEER					●	●					
MILLWORK WAINSCOT, TRIMS, MOLDING, BASE	●					●					GC TO PREP WALL TO VENDOR SPEC.
MILLWORK CABINETRY	●					●					GC TO REVIEW SHOPS / PROVIDE TOPS/BACKSPLASH
WALL COVERINGS					●	●					
STAINLESS KITCHEN PANELS & S/S CORNERS							●	●			K.E.C. VENDOR
CARPET & CARPET TILE	●					●					

DIVISION 10 - SPECIALITIES

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
STAIR TREAD NOSING					●	●					
SST COVED BASE (CRR)					●	●					
TOILET COMPARTMENTS					●	●					
INTERIOR DOOR SIGNS							●	●			
FIRE EXTINGUISHERS					●	●					
TOILET ACCESSORIES					●	●					
OFFICE SAFE	●	●									
WINDOW TREATMENTS							●	●			
GREASE INTERCEPTOR					●	●					
TRENCH DRAINS & FRAMES GRATES						●	●				K.E.C. VENDOR
EXTERIOR WAITING BENCH					●	●					
KEY BOX (MANAGER OFFICE)	●	●									
											REFERENCE FINISHES SECTION

DIVISION 11 - EQUIPMENT

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
TV'S & BRACKETS							●	●			
POINT OF SALE: CONDUITS & PULL STRINGS					●	●					REFER TO NOTE #4
CABLING - CAT 5							●	●			REFER TO NOTE #4
SPEAKERS							●	●			
CO2 EQUIPMENT							●	●			
WALK-IN COOLER							●	●			
KITCHEN EQUIPMENT							●	●			
BAR EQUIPMENT							●	●			
OFFICE DESK & SHELVING						●					MILLWORK VENDOR
OFFICE EQUIPMENT	●	●									
SS CORNER GUARD							●	●			K.E.C. VENDOR
BEER SYSTEM							●	●			
SODA SYSTEM							●	●			CONTRACTOR TO INSTALL CONDUIT FOR SODA CHASES
DISH MACHINE							●	●			
CABLE TV (SATELLITE)							●	●			
CLEANING CHEMICALS & EQUIPMENT	●	●									
HVAC											
POWER AT ROOF EQUIPMENT					●	●					
ROOFTOP CONDENSER SIDE EQUIPMENT							●	●			
COOLANT LINE SETS FOR REFRIGERATION EQUIP							●	●			
EXHAUST FANS FOR HOODS AT ROOF						●					K.E.C. VENDOR
EXHAUST THRU ROOF					●	●					
MUA						●	●				K.E.C. VENDOR
DUCTWORK FOR MUA					●	●					
AHU & DUCTWORK						●	●				REGARDING THE AHU, REFER TO THE MECH. SCHEDULE
HOODS						●	●				K.E.C. VENDOR
HOODS DUCTING TO ROOF					●	●					
BLACK IRON DUCTWORK TO ROOF					●	●					INCLUDING FIRE WRAP OF DUCTWORK
HOODS SUPPORT FRAMING					●	●					
HOODS SHROWD (DECORATIVE)						●	●				MILLWORK VENDOR
PATIO FANS	●					●					
ANSUL SYSTEM W/ PULL BOX							●	●			

DIVISION 12 - FURNISHINGS

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
BOOTHS AND BENCHES	●	●									
TABLES (TOP & BASES)	●						●				WHERE REQUIRED, PROVIDE BID ALTERNATE
CHAIRS & STOOLS	●	●									
PATIO FURNITURE AND UMBRELLAS	●						●				WHERE REQUIRED, PROVIDE BID ALTERNATE
UMBRELLA CLIPS					●	●					WHERE REQUIRED, PROVIDE BID ALTERNATE
INTERIOR RAILING					●	●					
ARCHITECTURAL METALS					●	●					UNLESS NOTED AS BY MILLWORK, REFER TO SHOP DWGS

DIVISION 13 - SPECIAL CONSTRUCTION

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
SIGNAGE INTERIOR							●	●			

DIVISION 14 - CONVEYING EQUIPMENT

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				

DIVISION 15 - MECHANICAL

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
SUBCONTRACTOR PERMITS & FEES					●	●					
SUBCONTRACTOR INSPECTION FEES					●	●					
FIRE SPRINKLER SYSTEM					●	●					
HOOD SUPPORT					●	●					
EXHAUST FANS & CURBS						●	●				REFER TO KES DRAWINGS
MAKE UP AIR FAN & CURBS						●	●				
MAKE UP & EXHAUST DUCT WORK					●	●					
DUCTWORK FIRE WRAP					●	●					
HVAC PACKAGE UNITS & CURBS					●	●					CONTACT: DAVID LOSCHEN @ 214.220.3999 FOR PREFERRRED PRICING
AIR DISTRIBUTION DUCTWORK					●	●					
TEST & BALANCE					●	●					
REFRIGERATION FOR ICE (MACHINE & WALK-INS)							●	●			
PLUMBING SYSTEM & FIXTURES					●	●					
WATER HEATERS					●	●					
WATER SOFTENERS						●	●				
WATER FILTERS						●	●				
AIR CURTAIN					●	●					REFER TO MEP DRAWINGS FOR MARS AIR DOOR SPEC
QUICK DISCONNECTS					●	●					
GAS EQUIPMENT REGULATORS					●	●					
GRILLES RETURN & DIFFUSERS					●	●					
GREASE CONTAINER SYSTEM									●		
GAS SERVICE & METER					●	●					CONTACT FOGO DE CHAO REGARDING TAP STATUS
WATER SERVICE & METER					●	●					CONTACT FOGO DE CHAO REGARDING TAP STATUS
SANITARY SEWER SYSTEM					●	●					
LANDSCAPE IRRIGATION					●	●					
MOP SINK					●	●					

DIVISION 16 - ELECTRICAL (REFER TO POC1.0)(VERIFY WITH LEASE AGREEMENT)

	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	EXISTING	NOT APPLICABLE	REMARKS
	OWNER		LANDLORD / DEVELOPER		GENERAL CONTRACTOR		SPECIFIED VENDOR				
PRIMARY TRANSFORMER					●	●					
INTEGRATED ELECTRICAL PANEL					●	●					
ELECTRICAL SERVICE & METER					●	●					
DIMMER PANEL						●	●				MARLIN CONTROLS; REFER TO DETAILS IN ELECTRICAL DRAWINGS FOR INSTALLATION
LIGHT FIXTURES						●	●				LIGHTING VENDOR
LAMPS						●	●				LIGHTING VENDOR
EMERGENCY & EXIT LIGHTS						●	●				LIGHTING VENDOR
HOOD INTERCONNECTS & FAN (STARTER MOTORS)						●	●				GC TO REFER TO KES, MEP, & CAPTIVE AIRE PLANS
HVAC CONTROL WIRING					●	●					
FIRE ALARM PANEL & DEVICES					●	●					CONTRACTOR TO INSTALL CONDUIT & J-BOXES
EXTERIOR LIGHTING						●	●				
LANDSCAPE LIGHTING						●	●				LIGHTING VENDOR
SECURITY ALARM							●	●			CONTRACTOR TO INSTALL CONDUIT
PHONE SYSTEM							●	●			REFER TO (NOTE #4); CONTRACTOR TO COORDINATE INSTALLATION OF CONDUIT & CATS WITH THE ELV VENDOR
CCTV SYSTEM + CONDUIT/WIRING							●	●			

NOTES:
1. UNLESS SPECIFIED HEREIN NOT TO BE PROVIDED, INSTALLED, AND/OR FINISHED BY GC, THE GC OR HIS SUBS ARE TO PROVIDE INSTALL AND FINISH ALL ITEMS IN THE CONSTRUCTION DOCUMENTS AND SPECIFIED IN THE PROJECT MANUAL.
2. WHERE SUBMITTALS ARE NOT REQUIRED, THE EXACT SPEC MUST BE USED.
3. SUBMITTALS SHALL BE MADE VIA PROCORE TO THE ARCHITECT DURING THE FIRST 6 WEEKS OF CONSTRUCTION.
4. TERMINATION BY OWNER.

STRUCTURAL SHELL SCOPE

(CONTACT AEQ CONSULTING, SEE G0.0)

STRUCTURAL WOOD SCOPE
INCLUSIONS PER STRUCTURAL DRAWINGS:
- PRE-FABRICATED EXTERIOR WALL PANELS + SHEAR WALLS & INTERIOR SHEAR WALLS
- ROOF TRUSSES
- WALL & ROOF SHEATHING
- POSTS, BEAMS & HEADERS
- WOOD-TO-WOOD SIMPSON HARDWARE, TITEN SCREWS AND NAILS
- RTU BLOCKING AND CURB LEVELING (CURBS REQUIRED ONSITE) & WOOD CRICKETS
- WALL BLOCKING FOR CANOPY AND/OR EYEBROW ATTACHMENT
- APPLICABLE SHOP DRAWINGS, EQUIPMENT & HAND-TOOLS
- PER DIEM, MOBILIZATION & SUPERVISION

EXCLUSIONS: ANY MATERIAL PRODUCT(S), PLACEMENT OF AND/OR SERVICE(S) NOT LISTED ABOVE SUCH AS DEMOLITION WORK, CONCRETE & MASONRY EMBEDS, EXTERIOR AND/OR INTERIOR METAL STUD WORK, NON-STRUCTURAL INTERIOR WOOD WALLS/BLOCKING/BACKING/SOFFITS/CEILINGS/FURRING/SUBSTRATE,FIRE-TREATMENTS, SIDING, FLASHING, WATERPROOFING AND/OR WEATHER BARRIER (TYVEK), DEPUTY INSPECTIONS, DUMPSTER FEES, POWER/GENERATOR, ETC.

STRUCTURAL STEEL SCOPE
INCLUSIONS PER STRUCTURAL DRAWINGS:
- STRUCTURAL STEEL COLUMN & BEAM SECTIONS
- BASEPLATES W/ ANCHOR BOLTS & TEMPLATES
- ROOF LADDER (STEEL)
- TRASH ENCLOSURE BOLLARDS, METAL DECK & GATES W/O HARDWARE
- ONE COAT SHOP PRIMER
- APPLICABLE SHOP DRAWINGS, EQUIPMENT & HAND-TOOLS
- PER DIEM, MOBILIZATION & SUPERVISION

EXCLUSIONS: ANY MATERIAL PRODUCT(S), PLACEMENT OF AND/OR SERVICE(S) NOT LISTED ABOVE SUCH AS DEMOLITION WORK, CONCRETE & MASONRY EMBEDS, ALUMINUM AND/OR STAINLESS-STEEL, GROUT/DRY-PACK, GALVANIZING/POWDER COATING/FINISH PAINT, LIGHT GAUGE/SHEET-METAL, TEMPLATE/ANCHOR BOLT SETTING, ROOF HATCH, LADDER, CANOPIES, RAILING, GRATING, DIAMOND PLATE, MISCELLANEOUS/ORNAMENTAL METAL WORK,FIREPROOFING, SHORING, DEPUTY INSPECTIONS, PERMITS, WELDING FOR OTHER TRADES, POWER/GENERATOR, ETC.

RESPONSIBILITY GENERAL NOTES

1. ALL ITEMS AND INSTALLATION WHICH ARE SHOWN ON THE DRAWINGS AND DETAILS, BUT WHICH ARE NOT SPECIFICALLY LISTED ON THE MATRIX ARE TO BE FURNISHED AND INSTALLED BY THE G.C. UNLESS SPECIFICALLY NOTED OTHERWISE.
2. THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATION) ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
3. ALL CONSTRUCTION TO MEET THE REQUIREMENTS OF THE GOVERNING CODE AND LOCAL JURISDICTIONS AS LISTED IN THE BUILDING CODE SUMMARY.
4. CONSTRUCTION DOCUMENTS HAVE BEEN DEVELOPED TO ACHIEVE GENERAL COMPLIANCE WITH CURRENTLY APPLIED ACCESSIBILITY GUIDELINES. THE ARCHITECT AND ITS RETAINED CONSULTANTS ASSUME NO LIABILITY REGARDING DECISIONS OR AGREEMENTS, IMPLY ANY WARRANTY OR GUARANTEE REGARDING CHANGES IN OR DIFFERING INTERPRETATIONS OF ACCESSIBILITY GUIDELINES AS THEY APPLY TO THESE DOCUMENTS.
5. IT IS THE RESPONSIBILITY OF THE GC AND MILLWORKER TO SURVEY THE SPACE AND DETERMINE HIGH & LOW SPOTS ON THE CONCRETE FLOOR THAT NEED TO BE LEVELED. IT IS ALSO THE GC AND MILLWORKERS RESPONSIBILITY TO REVIEW THE THICKNESS OF THE FINISHED FLOOR MATERIALS TO BE SET AT A LEVEL POINT THROUGHOUT THE SPACE..
6. ALL TRADES REVIEW ALL SHEETS OF THE CONSTRUCTION DOCUMENTS FOR COORDINATION PURPOSES.
7. GC SHALL PROVIDE WRITTEN NOTICE FOR CLAIMS OF ADDITIONAL COST DUE TO REVISIONS TO THE CONSTRUCTION DOCUMENTS IN A TIMELY MANNER TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO EXECUTING THE WORK. CHANGE ORDERS MUST BE APPROVED IN ADVANCE OF ANY WORK DONE. IF NOT APPROVED GC ASSUMES ALL FINANCIAL RESPONSIBILITY.
8. DO NOT SCALE DRAWINGS. IF IN QUESTION OBTAIN CLARIFICATION FROM THE ARCHITECT. IF DIMENSIONS OR CONDITIONS SHOWN DIFFERS IN THE FIELD, GC TO NOTIFY ARCHITECT FOR RESOLUTION PRIOR TO ANY WORK IN THE AREA. GC ASSUMES RESPONSIBILITY FOR ANY PROBLEMS & COST (INCLUDING SCHEDULING) RELATED TO THE DISCREPANCY IF ARCHITECT IS NOT NOTIFIED IN A TIMELY MANNER
9. WHERE SPECIFIED MATERIAL, EQUIPMENT OR SPECIALTY ITEMS REQUIRE EXCESSIVE TIME THAT MAY CAUSE DELAY TO CONSTRUCTION SCHEDULE, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN A TIMELY MANNER REPRESENTATIVE WILL ADVISE IF ALTERNATES WILL BE ACCEPTED.
10. PARTITION ANGLES ARE PARALLEL, PERPENDICULAR OR 45 DEGREE ANGLES TO BUILDING PERIMETER UNLESS NOTED OTHERWISE.
11. CENTERLINE DIMENSIONS SHALL BE MEASURED FROM CENTERLINE OF ASSEMBLY, FIXTURE OR DEVICE. CENTERLINE INDICATION AT PARTITION ABUTTING BUILDING ELEMENTS (MULLIONS, COLUMNS OR PILASTERS, SHALL ALIGN CENTER OF PARTITION ASSEMBLY WITH CENTER OF ELEMENT.
12. ALL DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED FROM THE FINISHED SURFACES.
13. GC TO COORDINATE & PROVIDE SOLID WOOD BLOCKING IN WALLS FOR MOUNTING ALL CABINETS, TOILET ACCESSORIES, TVS AND OTHER WALL MOUNTED ITEMS.
14. FIRE SAFE ALL PENETRATIONS IN UL RATED PARTITIONS TO MAINTAIN / ACHIEVE LEVEL OF PROTECTION REQUIRED FOR PARTITION TYPE. FIRE SAFE ALONG PERIMETER OF RATED PARTITIONS WHERE VOIDS OCCUR, SUCH AS FLOOR DECKING. PENETRATION OF PARTITIONS FOR MECHANICAL SYSTEMS OR STRUCTURAL SUPPORTS SHALL BE PROPERLY SEALED PER UL REQUIREMENTS. PENETRATIONS WITHIN RATED PARTITION ASSEMBLIES SHALL PROVIDE REQUIRED DAMPERING DEVICES SLEEVES AND FIRE PROOFING TO MAINTAIN APPROVED RATING.
15. ALL HARDWARE IS TO COMPLY WITH ANSI 117.1 THROUGH-OUT.
16. GC TO REFERENCE KITCHEN PLANS FOR ADDITIONAL WALL BLOCKING LOCATIONS.
17. REFERENCE ELECTRICAL PLANS FOR LOCATIONS OF POWER IN HALF WALLS, POWER TO BE FEED FROM THE FLOOR.
18. REFERENCE MECHANICAL PLANS FOR LOCATIONS OF SENSORS IN HALF WALLS THAT ARE ALSO POWERED FROM FLOOR.
19. NO RECEPTACLES, THERMOSTATS, FIRE SENSORS, ETC. ARE TO BE LOCATED IN THE CENTER OF WALLS AND / OR WHERE ACCESSORY ITEMS ARE SHOWN.
20. PROVIDE REQUIRED ACCESS PANELS IN PARTITIONS FOR MECHANICAL, ELECTRICAL & PLUMBING SYSTEMS. LOCATION OF ACCESS PANELS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO CONSTRUCTION.
21. GC TO NOT DISTURB OR DISRUPT ANY STRUCTURAL OR DECORATIVE SHELL BUILDING ITEMS AND TO SECURE "TO DECK" ITEMS AT STRUCTURE IN LIEU OF ROOF DECK.
22. ALL WET AREAS TO RECEIVE MOISTURE / MOLD RESISTANT TREATMENT & MATERIALS.
23. PROVIDE LEVEL 4 GWB FINISH IN PUBLIC SPACES.
24. UPON COMPLETION OF PROJECT CONTRACTOR SHALL:
    a. CONSULT WITH THE FOGO DE CHAO CONSTRUCTION DEPARTMENT FOR FINAL CLOSE OUT POLICIES AND PROCEDURE
    b. MAKE INSPECTIONS
    c. SUBMIT AN INITIAL CONSTRUCTION REVIEW (PUNCH) LIST TO ARCHITECT
    d. PROVIDE PROJECT RECORD TO OWNER
        1. AS-BUILT DRAWINGS (SHOWING ALL FIELD CHANGES FROM THE ORIGINAL DESIGN)
        2. SPECIFICATIONS AND REVISIONS
        3. PRODUCT DATA AND SUBMITTALS
        4. OPERATION AND MAINTENANCE (O&M) MANUALS
        5. WARRANTIES AND GUARANTEES
        6. TEST AND INSPECTION REPORTS
        7. COMMISSIONING REPORTS
        8. CERTIFICATES OF OCCUPANCY OR SUBSTANTIAL COMPLETION
        9. FINAL PERMITS AND APPROVALS
        10. CHANGE ORDERS AND RFIS
        11. PHOTOGRAPHIC RECORDS (IF APPLICABLE)
    e. PROVIDE EQUIPMENT WARRANTIES, OPERATION MANUALS, & CLOSEOUT DOCUMENTATION
    f. SCHEDULE DEMONSTRATIONS OF EQUIPMENT / SYSTEM OPERATION & SPECIAL MAINTENANCE
    g. FINAL CLEAN
25. ALL MILLWORK USED AS PART OF FOOD SERVICE SHALL BE CONSTRUCTED W/ 3/4" MARINE GRADE PLYWOOD SUBSTRATE FURNISHED BY OWNER (FBO)
26. ALL LIGHT FIXTURES IN FOOD PREP, BAR, STORAGE & UTENSIL WASH AREAS MUST HAVE SHATTERPROOF BULBS AND / OR ACRYLIC LENSES FURNISHED BY OWNER. (FBO)
27. ACOUSTICAL CEILING TILE IN FOOD PREP AREAS SHALL BE VINYL FACED TILE WHICH IS WASHABLE AND SCRUBBABLE. SEE FINISH SCHEDULE FOR SPECIFICATION.
28. ALL WALLS IN FOOD PREP AREAS TO HAVE FRP PANELING OR STAINLESS STEEL FROM TOP OF BASE TO UNDERSIDE OF CEILING UNLESS NOTED OTHERWISE. SEE FINISH SCHEDULE FOR SPECIFICATION
29. ALL WALLS BEHIND HOOD SHALL BE STAINLESS STEEL FULL WIDTH OF HOOD FROM UNDERSIDE OF HOOD TO TOP OF BASE, UNLESS NOTED OTHERWISE.
30. ALL WALL MOUNTED SHELVING TO BE MOUNTED 3" AWAY FROM ADJACENT WALLS & HAVE BLOCKING IN WALL FOR SUPPORT. (REFER TO KITCHEN DRAWINGS)
31. ALL EQUIPMENT IS PROVIDED BY OTHERS. GC TO INSTALL ALL ELECTRICAL, GAS, & PLUMBING. GC TO MAKE ALL FINAL CONNECTIONS.
32. FLOOR WILL BE CLEAR OF EXPOSED PIPES & LINES. NO UTILITY LINES WILL BE UNNECESSARILY EXPOSED.
33. GARBAGE CONTAINERS WILL BE DURABLE, CLEANABLE & RODENT RESISTANT WITH SUFFICIENT STORAGE SPACE BOTH INSIDE & OUTSIDE.
34. **GC TO REFERENCE FOOD SERVICE DRAWINGS FOR THE FOLLOWING:**
    a. CRITICAL DIMENSIONS FOR EQUIPMENT, INCLUDING MINIMUMS AND HOLD DIMENSIONS
    b. EQUIPMENT WALL SHEATHING & BLOCKING REQUIRMENTS AND RELATED MOUNTING HEIGHTS

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Stamp:

07/03/20

Project Owner:
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NEW CONSTRUCTION - GROUND UP
FOGO DE CHÃO - WEST WINDSOR, NJ
Project
FOGO DE CHAO - WEST WINDSOR, NJ
600 Lofts Drive
West Windsor, NJ

Issue For:
PERMIT

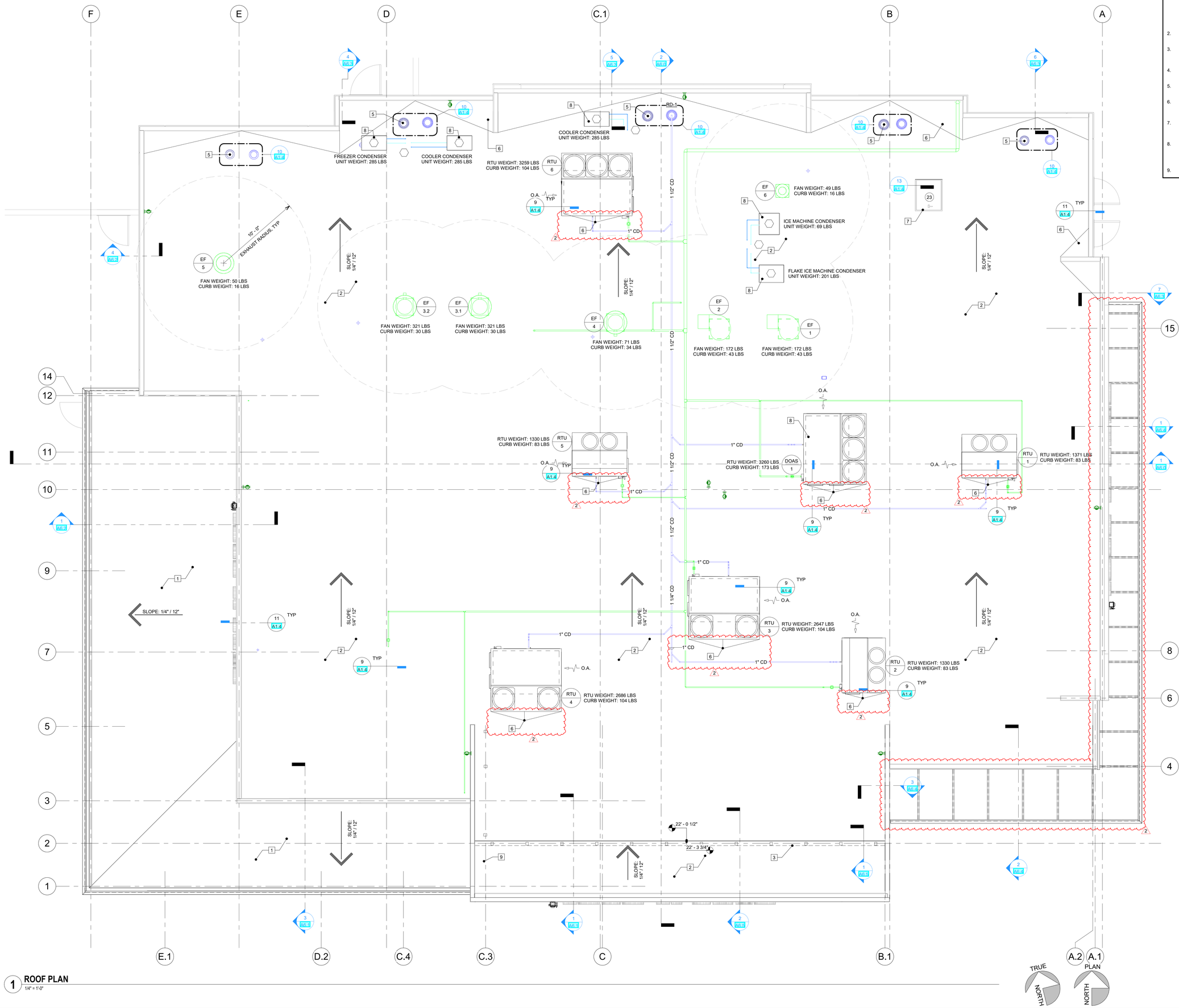
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07/01/2025

Revisions:

NO.	REASON	DATE
2	PERMIT SET	9/19/25

Principal in Charge:
GBL
Project Manager:
WLS
Drawn By:
Project
140-048-24
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Bid Set Kicc
10/8/2025



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

GENERAL NOTES

1. ROOFING TO BE CARLISLE PVC 50 MIL FULLY-ADHERED MEMBRANE, WHITE, WITH COLOR MATCHING SIDE WALLS AT INTERIOR PARAPET SIDE. INSTALLATION OF ROOFING SHALL BE IN ACCORDENCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALTERNATE: DURO-LAST FULLY-AHERERED PVC ROOF.
3. PROVIDE MANUFACTURER'S APPROVED ROOF DETAILS & SHOP DRAWINGS PRIOR TO INSTALLATION.
4. FLOOD ROOF PRIOR TO TURN-OVER AND CLEAN OUT DRAINS.
5. PROVIDE COMPLETE SYSTEM FOR 20 YR ROOFING MANUFACTURER'S WARRANTY.
6. PROVIDE ROOF PAD FOR SATELLITE DISHES, FINAL LOCATION SHALL BE DETERMINE IN FIELD, A/V VENDER TO COORDINATE.
7. ALL HVAC UNITS TO BE IDENTIFIED WITH 6" ENGRAVED LETTERING LABELED VISIBLE FROM ROOF ACCESS HATCH.
8. INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS INCLUDING MEMBRANE TERMINATIONS IN PARAPET WALLS.
9. PAINT ALL ROOFTOP "GAS" LINES YELLOW

00 ROOF PLAN KEY NOTES

1	50 MIL. PVC ROOFING SYSTEM OVER 1/2" ROOFING GLASS MAT BOARD ON 3/4" PLYWOOD ROOF DECKING AND TJI W/ MIN R-38 BATT INSULATION; INSULATION NOT REQUIRED AT PATIO CANOPY & EYEBROW
2	50 MIL. PVC ROOFING SYSTEM OVER MIN. 4" RIGID INSULATION W/ MIN. R-38 VALUE ON 3/4" PLYWOOD ROOF DECKING AND SLOPED JOIST 'PRS' SYSTEM
3	HIDDEN LINE INDICATES STOREFRONT / WALL LINE BELOW
4	HIDDEN LINE INDICATES EYEBROW CANOPY EXTENTS UNDER MAIN ROOF
5	ROOF AND OVERFLOW DRAINAGE PER PLUMBING; COORDINATE W/ CIVIL FOR UNDERGROUND CONNECTION; PROVIDE LAMRS TONGUE FITTING @ OVERFLOW DRAIN TO MATCH ADJACENT SURFACE
6	CRICKET - MIN. 1/4" SLOPE, TYP. CONTRACTOR SHALL FRAME CRICKETS W/ TAPERED INSULATION ABOVE STRUCTRUAL ROOF DECK; NO PONDING SHALL BE ALLOWED
7	ROOF HATCH, SEE DOOR SCHEDULE
8	CONDENSING UNIT, VERITY W/ KITCHEN EQUIPMENT PLANS
9	FIREPLACE FLUE, SEE MECHANICAL

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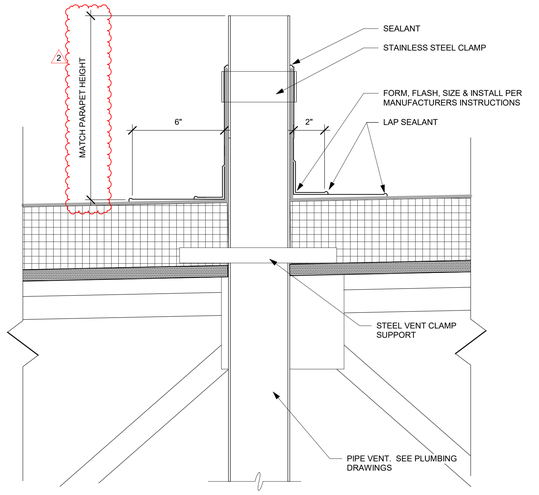
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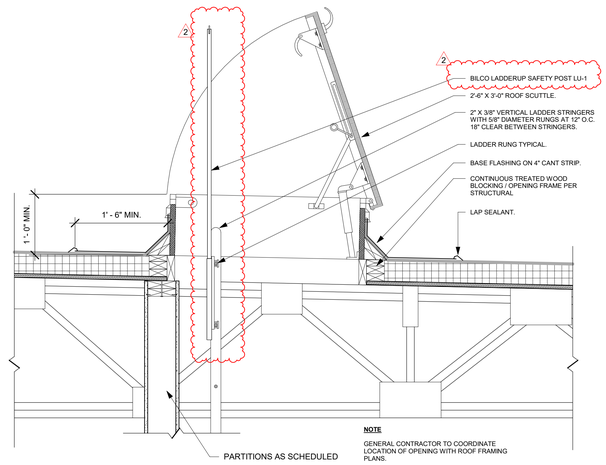
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ROOF PLAN

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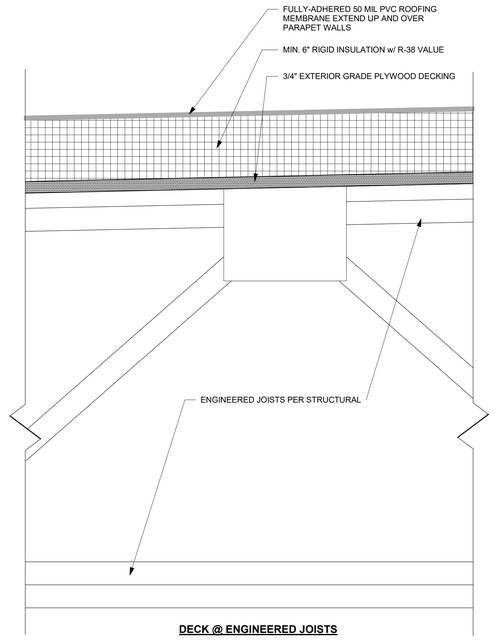
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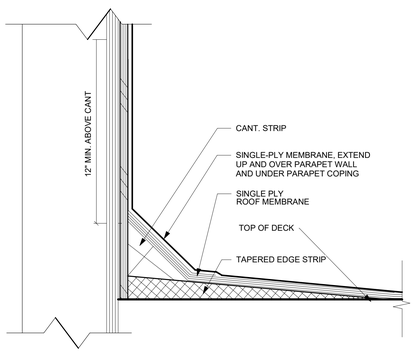
14 TYP. VENT PIPE DETAIL
3" = 1'-0"



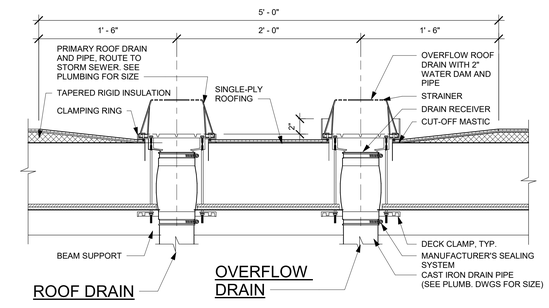
13 DETAIL @ ROOF HATCH
1" = 1'-0"



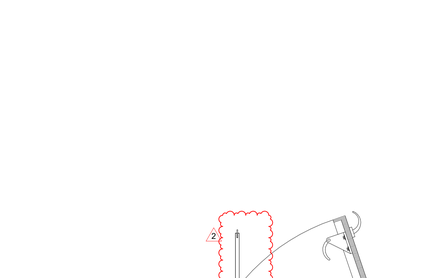
12 TYP. SECTION THRU ROOF DECK
3" = 1'-0"



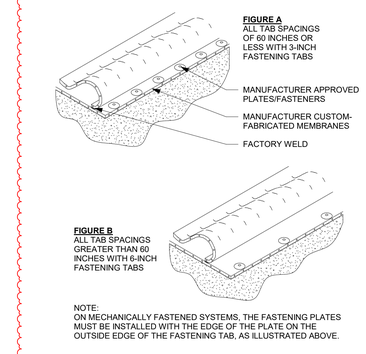
11 TYPICAL SECTION @ CANT. CONDITION
3" = 1'-0"



10 ROOF DRAIN DETIAL
1 1/2" = 1'-0"

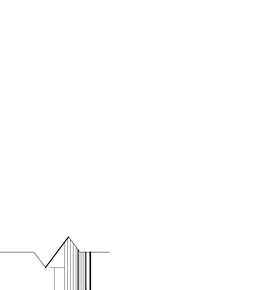


9 TYP. ROOF CURB DETAIL
1 1/2" = 1'-0"



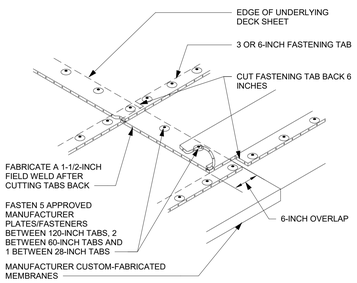
8 PVC MEMBRANE PLATE POSITIONING
1/4" = 1'-0"

7 PVC ROOF FIELD SEAMING
6" = 1'-0"



NOTE:
ENSURE THAT THE CORRECT SIDE OF THE MEMBRANE IS FACING OUT.

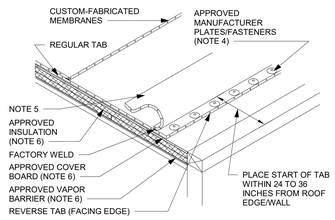
6 PVC INSIDE/OUTSIDE CORNERS
1/4" = 1'-0"



NOTE 1:
OVERLAPPING 6 INCHES AND CUTTING BACK FASTENING TABS ALLOWS ADEQUATE SPACE FOR FASTENING AND FIELD SEAMING. WHEN CUTTING BACK THE FASTENING TAB, BE CAREFUL NOT TO CUT THE TOP LAYER OF MEMBRANE.

NOTE2:
EXTRA PRECAUTIONS MUST BE TAKEN TO ENSURE T-LAPS ARE WELDED PROPERLY.

5 PVC CUSTOM SHEET SEAMING
1/4" = 1'-0"



NOTE 1:
TO HELP REDUCE WIND UPLIFT EFFECTS ON ALL PERIMETER TERMINATIONS PARALLEL TO THE TAB DIRECTION, INCLUDING THOSE WITH PARAPET WALLS LESS THAN 24 INCHES IN HEIGHT, A TAB MUST BE LOCATED WITHIN 24 TO 36 INCHES FROM THE ROOF EDGE/WALL.

NOTE2:
FOR TAB SYSTEMS GREATER THAN 60 INCHES, ADDITIONAL TABS WILL BE REQUIRED ALONG THE ROOF PERIMETERS. REFER TO THE MANUFACTURER'S MECHANICALLY FASTENED ROOFING SYSTEM SPECIFICATION FOR MORE INFORMATION.

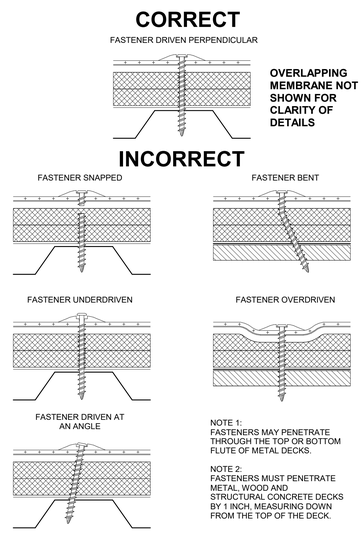
NOTE 3:
ADDITIONAL TABS MAY BE REQUIRED IF THE BUILDING IS LOCATED WITHIN A HIGH WIND ZONE,OR THE BUILDING HEIGHT IS 40 FEET OR HIGHER.

NOTE 4:
ALIGN THE EDGE OF THE FASTENING PLATE WITH THE OUTSIDE EDGE OF THE FASTENING TAB.

NOTE 5: ENSURE A SUFFICIENT AMOUNT OF MEMBRANE TO COMPLETE THE EDGE/WALL TERMINATION.

NOTE 6:
REFER TO SPECIFICATIONS FOR VAPOR BARRIER, INSULATION AND COVER BOARD REQUIREMENTS.

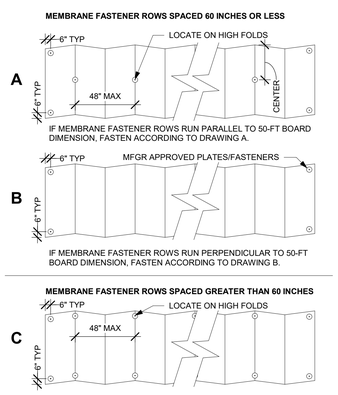
4 PVC REVERSE TAB
1/4" = 1'-0"



NOTE 1:
FASTENERS MAY PENETRATE THROUGH THE TOP OR BOTTOM FLUTE OF METAL DECKS.

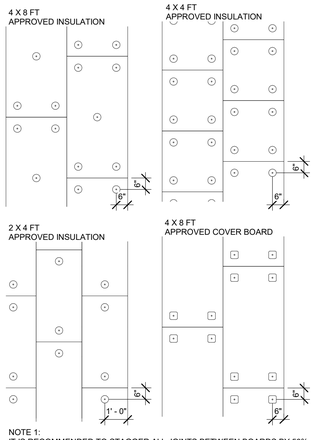
NOTE 2:
FASTENERS MUST PENETRATE METAL, WOOD AND STRUCTURAL CONCRETE DECKS BY 1 INCH, MEASURING DOWN FROM THE TOP OF THE DECK.

3 PVC DECK FASTENING
1/4" = 1'-0"



NOTE:
DO NOT OVERDRIVE THE FASTENERS. OVERDRIVEN FASTENERS MIGHT CRUSH THE FAN FOLD BOARD OR TEAR THE FACER.

2 PVC FAN FOLD FASTENING
3/16" = 1'-0"



NOTE 1:
IT IS RECOMMENDED TO STAGGER ALL JOINTS BETWEEN BOARDS BY 50% FROM ROW TO ROW AND LAYER TO LAYER.

NOTE 2:
ADJOIN PANEL EDGES TOGETHER. NEATLY FIT TO THE ROOF DECK AND AROUND PENETRATIONS WITH NO GAPS GREATER THAN 1/4 INCH.

NOTE 3:
FASTEN WITH APPROVED PLATES AND FASTENERS.

NOTE 4:
THESE FASTENING PATTERNS ARE TO BE USED WITH MECHANICALLY FASTENED SYSTEMS ONLY.

1 PVC INSULATION & RECOVER FASTENING
3/8" = 1'-0"

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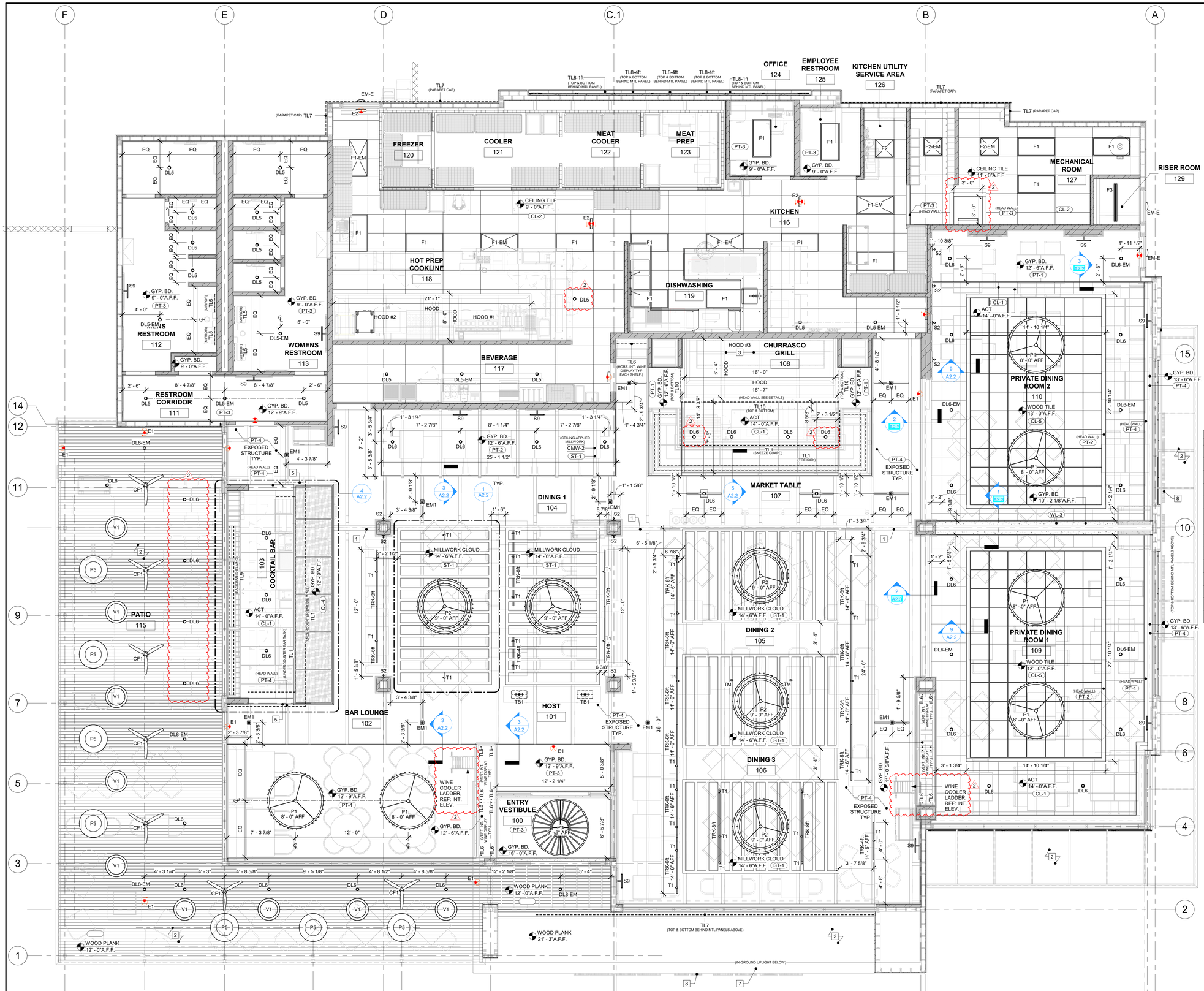
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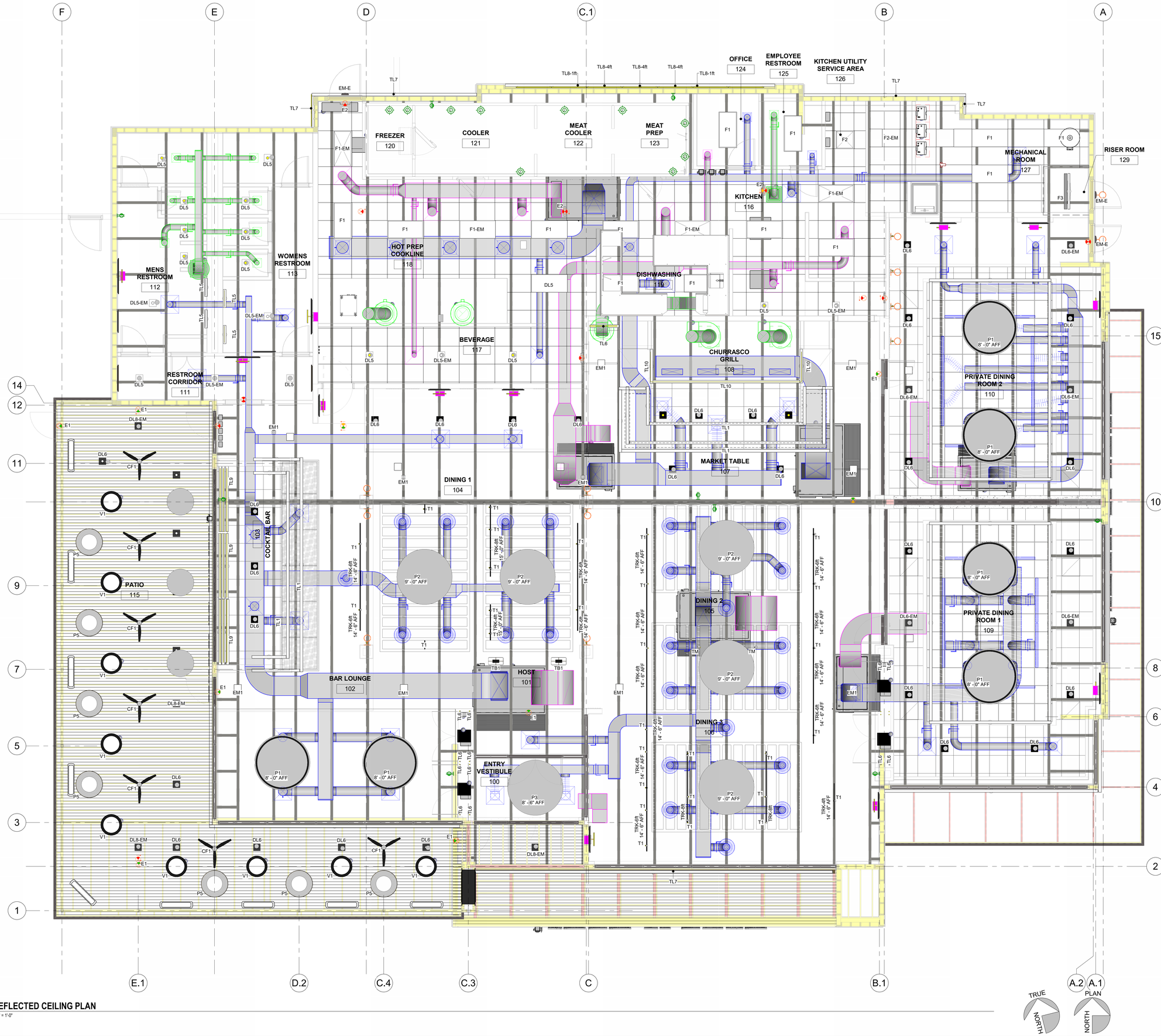
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ROOF DETAILS

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Bid Set Rec'd
10/8/2025


F
E
D
C.1
B
A
OFFICE
124
EMPLOYEE RESTROOM
125
KITCHEN UTILITY SERVICE AREA
126
FREEZER
120
COOLER
121
MEAT COOLER
122
MEAT PREP
123
KITCHEN
116
MECHANICAL ROOM
127
RISER ROOM
129
HOT PREP COOKLINE
118
DISHWASHING
119
MENS RESTROOM
112
WOMENS RESTROOM
113
RESTROOM CORRIDOR
111
BEVERAGE
117
CHURRASCO GRILL
108
MARKET TABLE
107
DINING 1
104
COCKTAIL BAR
103
PATIO
115
BAR LOUNGE
102
HOST
101
DINING 2
105
DINING 3
106
ENTRY VESTIBULE
100
PRIVATE DINING ROOM 2
110
PRIVATE DINING ROOM 1
109
TL7
(PARAPET CAP)
TL8-1ft
(TOP & BOTTOM BEHIND MTL PANEL)
TL8-4ft
(TOP & BOTTOM BEHIND MTL PANEL)
TL7
(TOP & BOTTOM BEHIND MTL PANELS ABOVE)
(IN-GROUND UPLIGHT BELOW)
WOOD PLANK
12' -0"A.F.F.
WOOD PLANK
21' -3"A.F.F.
EXPOSED STRUCTURE TYP.
CEILING TILE
9' - 0"A.F.F.
GYP. BD.
9' - 0"A.F.F.
GYP. BD.
12' - 6"A.F.F.
GYP. BD.
12' - 9"A.F.F.
GYP. BD.
16' - 0"A.F.F.
GYP. BD.
13' - 6"A.F.F.
GYP. BD.
10' - 2 1/8"A.F.F.
WOOD TILE
13' - 0"A.F.F.
ACT
14' - 0"A.F.F.
MILLWORK CLOUD
14' - 6"A.F.F.
WINE COOLER LADDER, REF. INT. ELEV.
HOOD #1
HOOD #2
HOOD #3
HOOD
16' - 0"
HOOD
16' - 7"
CMW-2
(CEILING APPLIED MILLWORK)
TL6
(HORZ. INT. WINE DISPLAY TYP EACH SHELF.)
TL6
(VERT. INT. WINE DISPLAY TYP.)
TL10
(TOP & BOTTOM)
TL1
(SNEEZE GUARD)
TL1
(TOE KICK)
TRK-6ft
14' - 6" AFF
TRK-4ft
14' - 6" AFF
P1
8' - 0" AFF
P2
9' - 0" AFF
P5
8' - 6" AFF
CF1
V1
DL6
DL5
DL5-EM
DL6-EM
DL8-EM
EM1
EM-E
F1
F1-EM
F2
F2-EM
F3
TB1
S9
PT-1
PT-2
PT-3
PT-4
CL-1
CL-2
CL-4
CL-5
ST-1
WL-3
TL1
TL5
TL6
TL10
2' - 6"
8' - 4 7/8"
2' - 6"
7' - 2"
3' - 8 3/8"
3' - 5 3/4"
1' - 3 1/4"
7' - 2 7/8"
1' - 4 3/4"
2' - 9 3/4"
21' - 1"
5' - 0"
4' - 0"
5' - 0"
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3' - 4 3/8"
1' - 6"
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6' - 5 7/8"
4' - 3 3/4"
4' - 3"
4' - 8 5/8"
9' - 5 1/8"
4' - 8 1/2"
12' - 2 1/8"
5' - 4"
38' - 0"
24' - 0"
22' - 10 1/4"
14' - 10 1/4"
1' - 10 3/8"
2' - 6"
1' - 11 1/2"
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3' - 1 3/4"
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3' - 7 5/8"
4' - 8"
1' - 10 1/2"
2' - 3 1/2"
8.58"
14' - 8 3/8"
2' - 2 1/4"
2' - 10 1/4"
1' - 0 5/8"
3' - 1 3/4"
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1' - 2"
1' - 5 5/8"
1' - 2 1/4"
1' - 10 3/8"
1' - 11 1/2"
2' - 6"
3' - 0"
3' - 0"
1' - 1 1/2"
1' - 10 1/2"
1' - 10 1/2"
1' - 10



1 REFLECTED CEILING PLAN

1/4" = 1'-0"

REFLECTED CLG. PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TAKEN FROM FACE OF STUD UNLESS OTHERWISE INDICATED.
2. ALL CEILING HEIGHT INDICATED ARE TO BE FROM FINISHED FLOOR UNLESS NOTED OTHERWISE.
3. LOCATE ALL TRACK & RECESSED FIXTURES @ CENTERLINE OF TILE UNLESS OTHERWISE INDICATED. INSTALL TRACK AT TOP OF TRELLIS. EXTEND FIXTURE HEAD TO BOTTOM OF TRELLIS.
4. LIGHTING @ ALL FOOD PREP AREAS & KITCHEN HAS BEEN DESIGNED TO PROVIDE 50 fc @ WORK LEVEL. LIGHTING IN ALL OTHER AREAS HAS BEEN DESIGNED TO PROVIDE AT LEAST 10fc @ 30" A.F.F.. ALL EXPOSED LAMPS IN FOOD PREP AREAS ARE TO BE ENCAPSULATED COATED PAR LAMPS.
5. LAMPS INCLUDED FOR ALL O.F.C.I. FIXTURES.
6. VERIFY LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS
7. ALL SURFACE MOUNTED EMERGENCY FIXTURES STANDARD COLOR FINISHES, WHITE FOR BOH AND BLACK FOR FRONT OF HOUSE.
8. ALL A/C GRILLS,ETC. PAINT TO MATCH ADJACENT CEILING FINISHES. (BLACK IS TYPICALLY AVAILABLE OFF THE SHELF)

REFLECTED CEILING PLAN KEY NOTES

1. PAINTED TO MATCH CEILING COLOR, LIGHT COVE DETAIL BOARD SUPPORT, GIRDER, CROSS BRACING MAY HAVE WHITE COLORED STRUCTURE READS.
2. ~~FINISHED PLANK CEILING BETWEEN STEEL BEAM SUPPORTS, FUNISHED & INSTALL BY GC, PROVIDE 1x4 SLEEPERS @ 24" O.C. TO BOTTOM OF STRUCTURAL JOISTS FOR ATTACHMENT~~
3. HOOD (ABOVE); GC TO COORDINATE W/ OWNER VENDOR FOR FABRICATION OF SHROUD & INSTALLATION
4. LIGHT COVE DETAIL W/ LINEAR LED LIGHT; REFER TO ELECTRICAL DRAWINGS
5. LIGHT COVE AT PERIMETER ROOFLINE W/ LINEAR LED LIGHT; REFER TO ELECTRICAL DRAWINGS
6. LINEAR LED LIGHT BELOW AT PLAN / MILLWORK; REFER TO DETAILS & ELECTRICAL FOR SPECIFICATION
7. IN GROUND EXTERIOR LIGHTING
8. SIGNAGE (OFOI) UNDER SEPARATE PERMIT; PROVIDE POWER & COORDINATE MOUNTING REQUIREMENTS

LIGHTING SCHEDULE

SYMBOL	TAG ID	QTY.	IMAGE	TYPE	LOCATION	MAKE	MODEL/MFR DESCRIPTION	LAMP	WATTAGE

GENERAL NOTES

1. BUILDING PERMIT BY OWNER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL MEP PERMITS, PAYING ALL FEES, AND COMPLYING WITH ALL GOVERNING REGULATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR TURNING OVER A COMPLETE, COORDINATED, AND FULLY FUNCTIONAL SYSTEM. THIS WILL INCLUDE FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY. ANY PORTION OF THIS MAY BE CONSIDERED "MEANS AND METHODS", AND SHALL BE INLCUDED IN THE INITIAL BID.
3. DO NOT PENETRATE WALLS EXTENDING TO DECK WITH FLEX DUCT. PROVIDE 12" MINIMUM HARD DUCT ON EACH SIDE OF WALLS EXTENDING TO DECK.
4. ALLOW PROPER ACCESS TO ALL EQUIPMENT, INCLUDING CODE-REQUIRED ACCESS AND MANUFACTURER-RECOMMENDED ACCESS. COORDINATE LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH ALL OTHER SYSTEMS AND TRADES TO ALLOW FOR PROPER ACCESS.
5. THE DESIGN INTENT IS TO ALLOW CEILINGS TO BE INSTALLED AT ELEVATIONS NOTED ON ARCHITECTURAL PLANS. COORDINATE ALL SYSTEMS TO MEET THIS INTENT.
6. ALL SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED. WHERE INDEPENDENT SUPPORT IS NOT FEASIBLE, PROVIDE AN ENGINEERED SUPPORT SYSTEM SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
7. IF ANY EQUIPMENT OR MATERIALS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE EQUIPMENT OR MATERIALS AT NO CHARGE TO OWNER, INCLUDING SCHEDULE AND GENERAL CONDITIONS CHARGES.
8. INSTALL DIELECTRIC UNIONS ON ALL CONNECTIONS BETWEEN MATERIALS OF DISSIMILAR METALS.
9. PROVIDE BALANCING DAMPERS AT ALL DIFFUSER TAKE-OFFS OF SUPPLY, RETURN, AND EXHAUST DUCTWORK. DAMPERS CAN BE OMITTED FOR A SINGLE EXHAUST GRILLE SERVED BY AN EXHAUST FAN, OR SINGLE GRILLES SERVED BY VAV BOXES ON SUPPLY OR RETURN.
10. COORDINATE ALL WALL MOUNTED THERMOSTATS, REMOTE SENSOR TEMPERATURE SENSORS, HUMIDISTATS, OR OTHER DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS AND ARCHITECTURAL EQUIPMENT PLANS. ARCHITECT SHALL HAVE FINAL APPROVAL OF DEVICE LOCATIONS. DO NOT LOCATE THERMOSTATS NEAR HEAT-PRODUCING EQUIPMENT, SUCH AS MULTI-FUNCTION PRINTERS OR STERILIZERS. DO NOT LOCATE THERMOSTATS, HUMIDISTATS, OR OTHER DEVICES BEHIND ANY EQUIPMENT WHERE DEVICE WOULD BE INACCESSIBLE.
11. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY COST OR SCHEDULE CHANGES DUE TO DEVIATION FROM SCHEDULED, BASIS-OF-DESIGN EQUIPMENT.
12. CONTRACTOR SHALL PROVIDE AND INSTALL LIFT OUT DIFFUSERS AND/OR GRILLES TO ACCESS ANY EQUIPMENT, DAMPERS, VALVES, SENSORS, OR PIPING SPECIALTIES LOCATED ABOVE HARD CEILINGS AT NO ADDITIONAL COST TO THE OWNER. IF LIFT OUT DIFFUSERS AND GRILLES ARE NOT POSSIBLE DUE TO CONSTRUCTION CONTRAINTS, INSTALL ACCESS PANELS.

PERFORMANCE TESTING

FUNCTIONAL PERFORMANCE TESTING REQUIREMENT: MECHANICAL CONTRACTOR IS REQUIRED TO SUBMIT A FUNCTIONAL PERFORMANCE TEST OF THE EQUIPMENT PROVIDED. THIS TESTING SHALL BE DOCUMENTED BY THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER AND INCLUDE PARTICIPATION OF THE GENERAL, MECHANICAL, ELECTRICAL, CONTROL, & BALANCING CONTRACTORS AND INCLUDE THE EQUIPMENT VENDOR AS REQUIRED. DOCUMENTATION SHALL INCLUDE A POINT-TO-POINT CHECK OF EVERY CONTROL SEQUENCE TO ENSURE THE UNIT IS RESPONDING AS DICTATED IN THE CONTROL SEQUENCES. ANY DISCREPANCIES TO THE SEQUENCE SHALL BE INDICATED IN THIS REPORT. CONTROL GRAPHICS AND EQUIPMENT CALIBRATION SHALL BE VERIFIED AS COMPLETED AS PART OF THIS REPORT. EACH CONTROL SENSOR WHETHER PROVIDED WITH EQUIPMENT OR BY THE CONTROLS CONTRACTOR SHALL BE VALIDATED AS REPORTING TO THE BAS APPROPRIATE VALUES. SIGNOFF ON THE REPORT IS REQUIRED FROM THE GC, MC, AND CONTROLS CONTRACTOR PRIOR TO SUBMISSION FOR REVIEW BY THE OWNER AND DESIGN TEAM. MECHANICAL CONTRACTOR SHALL NOTIFY THE CM OR GC OF THE TIME REQUIRED TO COMPLETE THESE EXERCISES AND THE GC OR CM IS REQUIRED TO HAVE A UNIQUE MILESTONE FOR THIS EXERCISE IN THEIR PROJECT SCHEDULE.

EQUIPMENT NOTE

ALL EQUIPMENT USED ON PROJECT SHALL BE SELECTED AND PURCHASED BASED ON PERFORMANCE AT PROJECT SITE ELEVATION.

SEISMIC DESIGN NOTE

PER ASCE 7 SECTION 13.1.4 - SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS, MECHANICAL / ELECTRICAL COMPONENTS ARE EXEMPT FROM CHAPTER 13'S DESIGN REQUIREMENTS. SEISMIC BRACING IS NOT REQUIRED FOR MECHANICAL OR ELECTRICAL EQUIPMENT AND COMPONENTS ON THIS PROJECT.

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SYMBOL LEGEND

SYMBOL	DESCRIPTION
A / #	NEW EQUIPMENT TAG
EX-A-#	EXISTING EQUIPMENT TAG
A / #	NEW DIFFUSER TAG
	NEW DUCT
	EXISTING DUCT
	DEMOLISHED DUCT
	NEW SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER
	LINEAR DIFFUSER
	DEMOLISHED SUPPLY DIFFUSER
	NEW RETURN / EXHAUST GRILLE
	EXISTING RETURN / EXHAUST GRILLE
	DEMOLISHED RETURN / EXHAUST GRILLE
	FLEX DUCT
T	THERMOSTAT
P	PRESSURE MONITOR
H	HUMIDISTAT
TH	COMBINATION THEMPERATURE/HUMIDITY SENSOR
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FS	FIRE/SMOKE DAMPER
HWS	HOT WATER SUPPLY
HWR	HOT WATER SUPPLY
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
LPS	LOW PRESSURE SUPPLY
LPR	LOW PRESSURE RETURN
MPS	MEDIUM PRESSURE SUPPLY
MPR	MEDIUM PRESSURE RETURN
HPS	HIGH PRESSURE SUPPLY
HPR	HIGH PRESSURE RETURN
PCR	PUMPED CONDENSATE RETURN
CD	CONDENSATE DRAIN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
	POINT OF DEMOLITION
	CONNECT TO EXISTING
	BUTTERFLY VALVE
	BALL VALVE
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	PLUG VALVE
S	SOLENOID VALVE

PROJECT DESIGN CRITERIA

BUILDING OCCUPANCY DESIGN CRITERIA		
CONSTRUCTION TYPE	-	VB
USE GROUP	-	A2
HIGH-RISE CONSTRUCTION	-	NO

CODES LISTED BELOW SHOW CODES APPLICABLE TO BASIS-OF-DESIGN. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING LOCAL AMENDMENTS.

APPLICABLE CODES		
BUILDING	-	2021 IBC, NEW JERSEY EDITION
MECHANICAL	-	2021 IMC
PLUMBING	-	2021 NSPC, NEW JERSEY EDITION
ELECTRICAL	-	2020 NEC
ENERGY	-	ASHRAE 90.1-2019
FUEL GAS	-	2021 IFGC
SPRINKLER	-	2021 IFC
FIRE ALARM	-	2021 IFC
PROJECT LATITUDE		
DEG. N. LAT.	-	40.277
PROJECT ELEVATION		
FT. ASL	-	190
SUMMER DESIGN CONDITIONS		
0.4% DB/WB °F	-	92.3/74.4
WINTER DESIGN CONDITIONS		
99.6% DB °F	-	11.6
DESIGN TEMPERATURE SETPOINTS		
SUMMER DB °F	-	72
WINTER DB °F	-	70

2

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Project Owner:
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Principal in Charge:
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KYLE KAESER

Project
NR-25757

Sheet
MECHANICAL LEGEND AND NOTES

Sheet
M1.0

Set Print Date
10/8/2025

VENTILATION COMPLIANCE SCHEDULE

SPACE NAME	OCCUPANCY TYPE	AIR FILTRATION	CONDITIONED AREA (SQFT)	2021 IMC VENTILATION CRITERIA			COMPLIANCE				
				OCCUPANT DENSITY (PERSONS PER 1000 SQFT)	PEOPLE FACTOR (Rp)	AREA FACTOR (Ra)	REQUIRED MIN OA CFM	SUPPLY CFM	OA%	OA CFM PROVIDED	EXHAUST CFM	EXHAUST CFM/SQFT
100 - ENTRY VESTIBULE	CORRIDORS	MERV 8, MERV 13	91.4	0	0	0.06	5.5	650	22.0%	143.0	-	-
101 - HOST	CORRIDORS	MERV 8, MERV 13	62.6	0	0	0.06	3.8	240	22.0%	52.8	-	-
102 - BAR LOUNGE	DINING ROOMS	MERV 8, MERV 13	499.9	70	70	0.18	352.4	1410	25.0%	352.5	-	-
103 - BAR SEATING	DINING ROOMS	MERV 8, MERV 13	201.3	70	70	0.18	141.9	570	25.0%	142.5	-	-
103 - COCKTAIL BAR	BARS, COCKTAIL LOUNGES	MERV 8, MERV 13	183.8	100	100	0.18	170.9	710	25.0%	177.5	-	-
104 - DINING 1	DINING ROOMS	MERV 8, MERV 13	953.8	70	70	0.18	672.4	2690	25.0%	672.5	-	-
105 - DINING 2	DINING ROOMS	MERV 8, MERV 13	775.9	70	70	0.18	547.0	2490	22.0%	547.8	-	-
106 - DINING 3	DINING ROOMS	MERV 8, MERV 13	570.5	70	70	0.18	402.2	2030	22.0%	446.6	-	-
108 - CHURRASCO GRILL	KITCHENS (COOKING)	MERV 8, MERV 13	675	20	20	0.12	182.3	1770	11.0%	194.7	-	-
109 - PRIVATE DINING ROOM 1	DINING ROOMS	MERV 8, MERV 13	767.5	70	70	0.18	541.1	3130	17.3%	541.2	-	-
110 - PRIVATE DINING ROOM 2	DINING ROOMS	MERV 8, MERV 13	763.6	70	70	0.18	538.3	2580	20.9%	538.7	-	-
111 - RESTROOM CORRIDOR	CORRIDORS	MERV 8, MERV 13	120.5	0	0	0.06	7.2	60	25.0%	15.0	-	-
112 - MENS RESTROOM	OFFICE SPACE	MERV 8, MERV 13	278.9	5	5	0.06	23.7	130	25.0%	32.5	190.0	0.7
113 - WOMENS RESTROOM	OFFICE SPACE	MERV 8, MERV 13	279.8	5	5	0.06	23.8	110	25.0%	27.5	160.0	0.6
117 - BEVERAGE	KITCHENS (COOKING)	MERV 8, MERV 13	205.1	20	20	0.12	55.4	150	75.3%	113.0	-	-
118 - HOT PREP COOKLINE	KITCHENS (COOKING)	MERV 8, MERV 13	541.4	20	20	0.12	146.2	4940	75.3%	3719.8	4200.0	7.8
119 - DISHWASHING	KITCHENS (COOKING)	MERV 8, MERV 13	240.1	20	20	0.12	64.8	590	11.0%	64.9	600.0	2.5
124 - OFFICE	OFFICE SPACE	MERV 8, MERV 13	63.1	5	5	0.06	5.4	180	11.0%	19.8	-	-
125 - EMPLOYEE RESTROOM	OFFICE SPACE	MERV 8, MERV 13	57	5	5	0.06	4.8	50	11.0%	5.5	125.0	2.2
127 - MECH ROOM / KITCHEN UTILITY	CORRIDORS	MERV 8, MERV 13	639.5	0	0	0.06	38.4	520	11.0%	57.2	-	-

MECHANICAL INSULATION SCHEDULE

ITEM	SIZE	TYPE	MATERIAL	THERMAL CONDUCTIVITY (BTU / INCH THICKNESS)	THICKNESS	JACKET	NOTES
SUPPLY DUCTWORK - ABOVE ACOUSTIC CEILING TILES	ALL	BLANKET / WRAP	FIBERGLASS	0.27	2"	FOIL SCRIM KRAFT	1,2,3
RETURN DUCTWORK - ABOVE ACOUSTIC CEILING TILES	ALL	-	-	-	-	-	-
SUPPLY DUCTWORK - VISIBLE DUCTWORK IN DINING AREAS	ALL	DUCT LINER	FIBERGLASS	0.27	1-1/2"	-	1,2,3,4,5
RETURN DUCTWORK - VISIBLE DUCTWORK IN DINING AREAS	ALL	DUCT LINER	FIBERGLASS	0.27	1"	-	1,2,3,4,5
TOILET EXHAUST DUCTWORK	ALL	-	-	-	-	-	-
TYPE I AND TYPE II EXHAUST DUCTWORK	ALL	HIGH TEMPERATURE FOIL ENCAPSULATED FIBER BLANKET	INORGANIC FIBERS	0.60 @ 500° F 2.94 @ 2000° F	1-1/2"	SCRIM-REINFORCED FOIL	3,6

NOTES:
1. PRODUCTS SHALL NOT CONTAIN FORMALDEHYDE, ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.
2. INSULATION SHALL CONFORM TO THE REQUIREMENTS OF SECTION C403.11 OF 2018 INTERNATIONAL ENERGY CONSERVATION CODE.
3. SEE SPECIFICATIONS FOR FURTHER INSULATION REQUIREMENTS.
4. PRODUCT SHALL BE JOHNS MANVILLE LINACOUSTIC OR EQUIVALENT; TO BE INSTALLED ON THE INTERIOR OF THE DUCT.
5. DUCT DIMENSIONS SHOWN ON PLANS ARE OF THE NET FREE AREA; INTERNALLY INSULATED DUCTS MUST INCREASE THE OUTER DIMENSION SIZE TO ACCOUNT FOR THE INSULATION THICKNESS.
6. PRODUCT SHALL BE 3M FIRE BARRIER DUCT WRAP 615+.

AIR BALANCE SCHEDULE

UNIT	DINING (CFM)				KITCHEN (CFM)			
	SUPPLY CFM	RETURN CFM	OUTSIDE CFM	EXHAUST	SUPPLY CFM	RETURN CFM	OUTSIDE CFM	EXHAUST
RTU-1	2580	2045	539	-	-	-	-	-
RTU-2	3130	2590	541	-	-	-	-	-
RTU-3	5410	4220	1190	-	-	-	-	-
RTU-4	5680	4290	1420	-	-	-	-	-
RTU-5	1770	1610	195	-	1340	1160	147	-
RTU-6	-	-	-	-	5090	1260	3833	-
DOAS-1	4400	0	4400	-	-	-	-	-
EF-1	-	-	-	-	-	-	-	2200
EF-2	-	-	-	-	-	-	-	2000
EF-3.1	-	-	-	2500	-	-	-	-
EF-3.2	-	-	-	2500	-	-	-	-
EF-4	-	-	-	-	-	-	-	600
EF-5	-	-	-	350	-	-	-	-
EF-6	-	-	-	-	-	-	-	125
TOTALS	22970	14755	8285	5350	6430	2420	3980	4925
	DINING SPACE PRESSURIZATION (CFM): [SUPPLY CFM - RETURN CFM - EXHAUST CFM]			2865	KITCHEN SPACE PRESSURIZATION (CFM): [SUPPLY CFM - RETURN CFM - EXHAUST CFM]			-915
	DINING SPACE PRESSURIZATION (%): [SPACE PRESSURIZATION CFM / SUPPLY CFM]			12.5%	KITCHEN SPACE PRESSURIZATION (%): [SPACE PRESSURIZATION CFM / SUPPLY CFM]			-14.2%

OVERALL SPACE PRESSURIZATION (CFM): [SUPPLY CFM - RETURN CFM - EXHAUST CFM]	**1950**
OVERALL SPACE PRESSURIZATION (%): [SPACE PRESSURIZATION CFM / SUPPLY CFM]	**6.6%**

AIR DEVICE SCHEDULE

TAG	TYPE	SIZE	FINISH	THROW	NECK SIZE	MANUFACTURER / MODEL	NOTES
S1	SQUARE PLAQUE DIFFUSER	24"x24"	NOTE 3	4-WAY	NOTE 1	TITUS / OMNI-AA	2,3,4
S2	SQUARE PLAQUE DIFFUSER	12"x12"	NOTE 3	4-WAY	NOTE 1	TITUS / OMNI-AA	2,3,4
S3	LINEAR SUPPLY DIFFUSER	5"	NOTE 3	JET THROW	NOTE 1	TITUS / FL-15-JT 2-SLOT	ALL
S4	ROUND ADJUSTABLE PLAQUE DIFFUSER	22"	NOTE 3	N/A	10" Ø NECK	TITUS / TMRA-AA	2,3,4
R1	LOUVERED RETURN GRILLE	24"x24"	NOTE 3	N/A	NOTE 1	TITUS / 350FL	2,3,4
R2	LOUVERED RETURN GRILLE	12"x12"	NOTE 3	N/A	NOTE 1	TITUS / 350FL	2,3,4
R3	LOUVERED RETURN GRILLE	24"x24"	NOTE 3	N/A	FULL FACE	TITUS / 350FL	2,3,4
E1	LOUVERED EXHAUST GRILLE	24"x24"	NOTE 3	N/A	NOTE 1	TITUS / 350FL	2,3,4
E2	LOUVERED EXHAUST GRILLE	12"x12"	NOTE 3	N/A	NOTE 1	TITUS / 350FL	2,3,4

NOTES:
1.

NECK AND / OR DUCT RUNOUT SIZE	AIRFLOW
6"Ø	0-90
8"Ø	91-180
10"Ø	181-350
12"Ø	351-550
14"Ø	551-850
16"Ø	881-1250

2. COORDINATE ALL FINISHES WITH ARCHITECTURAL PLANS.
3. CONTRACTOR TO COORDINATE MOUNTING STYLE WITH ARCHITECTURAL CEILING PLANS.
4. INSIDE OF ALL PLENUM BOXES TO BE PAINTED BLACK.
5. SUPPORT DIFFUSERS FROM STEEL ABOVE WHEN USED OVER MILLWORK CEILING SYSTEMS; SELECT APPROPRIATE BORDER CLIP TYPE WHEN USED WITH ACP CEILINGS.

ELECTRIC UNIT HEATER

TAG	MOUNTING	HEATER SIZE (W)	ELECTRICAL DATA			MANUFACTURER / MODEL	NOTES
			VOLT/PH	FLA			
EUH-1	WALL MOUNTED	1000	120/1	8.3		INDEECO / 934IW-D1012-W	ALL

NOTES:
1. EUH-1 SHALL BE SUFACE MOUNTED.
2. PROVIDE AND INSTALL OPTIONAL WHITE SURFACE MOUNT FRAME, MODEL # WIF-DSM-W.
3. PROVIDE AND INSTALL DISCONNECT.

ELECTRIC HEATER SCHEDULE

TAG	MOUNTING	ELECTRICAL DATA			MANUFACTURER / MODEL	NOTES
		VOLT / PH	WATTS	AMPS		
H-1.1 THRU H-1.9	CEILING	208 / 1	2,900	11.8	BROMIC / BH0920001-1	ALL

NOTES:
1. HEATERS ARE OWNER FURNISHED, CONTRACTOR INSTALLED; COORDINATE DELIVERY WITH OWNERS VENDOR, VILLA LIGHTING.
2. INSTALL ON BROMIC CEILING MOUNTING POLES; COORDINATE POLE LENGTH WITH ARCHITECT; HEATER TO BE INSTALLED BETWEEN 8' AND 9' AFF.
3. PROVIDE AND INSTALL BROMIC BH3230007-1 ELECTRIC PENDANT CONTROL BOX AND WIRELESS REMOTE.
4. HEATERS TO BE LABELED IN SEQUENCE AND SHALL BE COORDINATED WITH THE CONTROLLER AND REMOTE LABELING. LABELS TO BE PLACED ON A NON-HEATED SURFACE AND ARE TO BE VISIBLE TO THE RESTAURANT STAFF. LABELS ARE TO BE PRINTED OR PURCHASED.

WINE COOLER SCHEDULE

TAG	SERVES	BTUH @ 60F	ELECTRICAL			MANUFACTURER / MODEL	NOTES
			VOLTS/PH	RUNNING AMPS	STARTING AMPS		
WC-1 THRU WC-4	WINE CABINET	1456	115/1	2.95	20.1	CELLARPRO / HOUDINI 1800XT-ECX	ALL

NOTES:
1. WINE COOLING UNITS ARE TO BE LOCATED ABOVE THE WINE CABINET, WITH THE SUPPLY AND RETURN AIR DUCTED DOWN INTO THE CABINET.
2. PROVIDE WITH DUCT INTAKE HOOD (#1932).
3. PROVIDE REMOTE DISPLAY (#1603); TO BE POSITIONED AN AN EASILY ACCESSABLE LOCATION WITHIN THE COOLER.
4. PROVIDE WITH OPTIONAL REAR CONDENSATE DRAIN (#1606).
5. ALL PENETRATIONS INTO THE CABINET TO BE PROPERLY SEALED TO PREVENT AIR LEAKS.
6. WINE COOLING UNITS ARE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.

FAN SCHEDULE

TAG	SERVES	MAX. CFM	EXT. S.P.	MAX. SONES	RPM	MOTOR ENCL	HP	BHP	DISCHARGE VELOCITY	VOLTS/PH	MANUFACTURER / MODEL	NOTES
EF-1	PREP	2200	1.000	10.6	1033	ODP, PREMIUM	2.000	0.762	508	208 / 3	CAPTIVEAIRE / DU180HFA	1,2,4,5,6,7
EF-2	PREP	2000	1.250	12.1	1097	ODP, PREMIUM	2.000	0.875	462	208 / 3	CAPTIVEAIRE / DU180HFA	1,2,4,5,6,7
EF-3.1	GRILL	2500	1.150	23.3	1493	ODP, PREMIUM	3.000	1.799	1,450	208 / 3	CAPTIVEAIRE / CASRE18DD	1,2,4,5,6,7
EF-3.2	GRILL	2500	1.150	23.3	1493	ODP, PREMIUM	3.000	1.799	1,450	208 / 3	CAPTIVEAIRE / CASRE18DD	1,2,4,5,6,7
EF-4	DISH	600	0.500	10.7	1242	TEAO-ECM	0.333	0.119	297	115 / 1	CAPTIVEAIRE / DU33HFA	1,3,4,5,6
EF-5	PUBLIC TOILET	350	0.500	6.6	1326	TEAO-ECM	0.250	0.104	-	115 / 1	CAPTIVEAIRE / DR12HFA	1,3,4,5,8,9
EF-6	EMPLOYEE TOILET	125	0.500	5	1453	TEAO-ECM	1.666	0.058	-	115 / 1	CAPTIVEAIRE / DR10HFA	1,3,4,5,8,9

NOTES:
1. PROVIDE INTEGRAL DISCONNECT, IF AN INTEGRAL DISCONNECT IS NOT AVAILABLE CONTRACTOR IS TO PROVIDE DISCONNECT.
2. PROVIDE WITH VENTED HINGED CURB.
3. PROVIDE WITH CURB.
4. EQUIPMENT FURNISHED BY OWNER, CONTRACTOR INSTALLED. REFER TO KITCHEN VENDOR DRAWINGS FOR REQUIREMENTS.
5. ALL EXHAUST FANS ARE TO DISCHARGE A MINIMUM OF 10' AWAY FROM ALL OUTDOOR AIR INTAKES.
6. UL 762 RATED FOR KITCHEN APPLICATION.
7. PROVIDE WITH GREASE RESERVOIR.
8. PROVIDE BIRD SCREEN.
9. FURNISH WITH INTERNALLY MOUNTED SPEED CONTROLLER

CONDENSATE PUMP SCHEDULE

TAG	SERVES	ELECTRICAL		MANUFACTURER / MODEL	NOTES
		VOLTS/PH	RUNNING AMPS		
CP-1 THRU CP-2	WINE CABINET	115/1	1.5	LITTLE GIANT / VCMA-20ULS-C-PRO	ALL

NOTES:
1. ENSURE PUMP IS PROVIDED WITH ANTI-SWEAT SLEEVE.
2. PUMP IS TO BE LOCATED HIGH WITHIN THE WINE CABINET, OUT OF SIGHT.
3. ALL PENETRATIONS IN AND OUT OF THE CABINET TO BE PROPERLY SEALED TO PREVENT AIR LEAKS.

ELECTRIC AIR CURTAIN SCHEDULE

TAG	CONTROL	NOZZLE WIDTH (IN)	MOTOR QTY / HP	VOLTS/PH	AMPS	MANUFACTURER / MODEL	NOTES
AC-1	DOOR SWITCH	48	1 / 1	120/1	5.1	MARS AIR SYSTEMS / STD248-1UA-PW	ALL

NOTES:
1. PROVIDE INTEGRAL DISCONNECT.
2. INTERLOCK WITH DOOR OPERATION.
3. PROVIDE WITH PEARL WHITE POWDER COAT FINISH.
4. PROVIDE MAGNET OPERATED DOOR INTERLOCK SWTICH TO PROVIDE FAN OPERATION.
5. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.

PACKAGED ROOFTOP UNIT SCHEDULE

TAG	SUPPLY FAN DATA			DX COOLING DATA					REHEAT DATA			GAS HEAT DATA					OUTDOOR AIR DATA			ELECTRICAL DATA				MANUFACTURER / MODEL	NOTES
																				FANS & COMPRESSORS					
AIR HANDLING UNIT	CFM	EXT. S.P. ("WG)	DRIVE	TYPE	EAT DB / WB (°F)	LAT DB / WB (°F)	CAP TOTAL / SENS (MBH)	IEER	DISCHARGE DB/WB (°F)	CAPACITY DESIRED / MAX (MBH)	MOISTURE REMOVAL RATE (LBS/HR)	TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE (° F)	REQUIRED INPUT GAS PRESSURE (IN. WC.)	CFM	SUMMER TEMP DB / WB (°F)	WINTER TEMP DB / WB (°F)	HP	VOLTS / PH	MCA	MOCP		
RTU-1	2590	0.88	DIRECT	DX	77.6 / 65.7	53.8 / 53.8	90.2 / 65.7	18.6	70.0 / 60.1	46.6 / 60.0	22.6	NATURAL	97,709	79,144	28.0	7 - 14	539	92.3	74.4	5.0	208 / 3	40.4	45	CAPTIVEAIRE / CAS-HVAC1-I.100-18-7.5T	1 - 21
RTU-2	3130	0.88	DIRECT	DX	77.1 / 65.0	54.8 / 54.6	95.8 / 74.8	18.6	70.0 / 60.5	52.9 / 60.0	19.2	NATURAL	109,583	88,762	26.0	7 - 14	541	92.3	74.4	5.0	208 / 3	40.4	45	CAPTIVEAIRE / CAS-HVAC1-I.125-18-7.5T	1 - 21
RTU-3	5410	0.88	DIRECT	DX	77.7 / 65.8	53.3 / 53.2	204.6 / 143.6	18.8	70.0 / 60.6	100.8 / 129.6	54.3	NATURAL	212,407	172,050	29.0	7 - 14	1190	92.3	74.4	7.5	208 / 3	78.5	90	CAPTIVEAIRE / CAS-HVAC3-I.250-24-15T	1 - 21
RTU-4	5680	0.88	DIRECT	DX	78.1 / 66.3	54.7 / 54.5	204.4 / 144.8	18.8	70.0 / 60.7	96.7 / 129.6	53.7	NATURAL	239,177	193,733	31.0	7 - 14	1420	92.3	74.4	10.0	208 / 3	85.9	110	CAPTIVEAIRE / CAS-HVAC3-I.250-24-15T	1 - 21
RTU-5	3110	0.88	DIRECT	DX	76.4 / 64.0	54.3 / 54.0	89.5 / 73.5	18.6	70.0 / 60.5	54.4 / 60.0	14.7	NATURAL	95,693	77,511	23.0	7 - 14	342	92.3	74.4	5.0	208 / 3	40.4	45	CAPTIVEAIRE / CAS-HVAC1-I.125-18-7.5T	1 - 21
RTU-6	HOOD ON - 5090 HOOD OFF - 3420	0.88	DIRECT	DX	84.3 / 73.9	54.6 / 52.3	349.2 / 160.4	14.9	70.0 / 58.5	87.1 / 204.6	171.1	NATURAL	431,935	349,867	59.0	7 - 14	HOOD ON - 3833 HOOD OFF - 1265	92.3	74.4	5.0	208 / 3	142.2	150	CAPTIVEAIRE / CAS-HVAC3-I.500-24-30T	ALL

NOTES:
1. PROVIDE INTEGRAL DISCONNECT.
2. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL.
3. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE.
4. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER.
5. PROVIDE TEMPERATURE AND HUMIDITY CONTROL.
6. AVERAGING INTAKE, EVAP, AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT).
7. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE.
8. CONTRACTOR TO PROVIDE AND INSTALL RETURN DUCT SMOKE DETECTOR TO DISABLE UNIT. CONNECT SMOKE DETECTOR TO FIRE ALARM PANEL. COORDINATE WITH FIRE ALARM INSTALLER.
9. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE.
10 EC MOTOR CONDENSING FANS.
11. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE.
12. SUCTION LINE ACCUMULATOR.
13. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURN DOWN W/ NG AND 5:1 TURNDOWN W/ LP.
14. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION - MINIMUM 20GA EXTERIOR W/ 14GA BASE.
15. HAIL GUARD FOR CONDENSING COIL.
16. BOTTOM SUPPLY CONNECTION.
17. PROVIDE 2" MERV 8 AND 2" MERV 13 FILTERS.
18. PROVIDE INTAKE AND RETURN DAMPERS.
19. SUPPLY AND INSTALL ON FACTORY ROOF CURB.
20. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER.
21. AIR HANDLING UNITS AND ROOF CURBS ARE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
22. PROVIDE FACTORY PACKAGED CONTROLS FOR INTERLOCK WITH KITCHEN HOODS AND KITCHEN CONTROL PANEL.

DOAS UNIT SCHEDULE

TAG	SUPPLY FAN DATA			DX COOLING DATA					REHEAT DATA			GAS HEAT DATA					OUTDOOR AIR DATA			ELECTRICAL DATA				MANUFACTURER / MODEL	NOTES
																				FANS & COMPRESSORS					
AIR HANDLING UNIT	CFM	EXT. S.P. ("WG)	DRIVE	TYPE	EAT DB / WB (°F)	LAT DB / WB (°F)	CAP TOTAL / SENS (MBH)	IEER	DISCHARGE DB/WB (°F)	CAPACITY DESIRED / MAX (MBH)	MOISTURE REMOVAL RATE (LBS/HR)	TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE (° F)	REQUIRED INPUT GAS PRESSURE (IN. WC.)	CFM	SUMMER TEMP DB / WB (°F)	WINTER TEMP DB / WB (°F)	HP	VOLTS / PH	MCA	MOCP		
DOAS-1	4400	0.85	DIRECT	DX	87.5 / 77.1	56.6 / 53.1	349.2 / 144.0	14.9	70.0 / 58.5	65.3 / 204.6	185.3	NATURAL	446,030	361,284	69.0	7 - 14	4400	92.3 / 74.4	11.6 / 4.7	5.0	208/3	142.2	150	CAPTIVEAIRE / CAS-HVAC3-I.500-24-30T-DOAS	ALL

NOTES:
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20. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER.
21. PROVIDE FACTORY PACKAGED CONTROLS FOR INTERLOCK WITH KITCHEN HOODS AND KITCHEN CONTROL PANEL.
22. INSTALL HMI#1 AT UNIT, INSTALL HMI#2 IN MANAGERS OFFICE.
23. EQUIPMENT FURNISHED BY TEXAS METALS (KITCHEN VENDOR), CONTRACTOR INSTALLED. REFER TO KITCHEN VENDOR DRAWINGS FOR REQUIREMENTS.

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Engineering Consultant:
New Ridge Engineering

Stamp:

Project Owner:
FOGO DE CHÃO

CONVERSION
FOGO DE CHÃO
Project
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West Windsor, NJ

Issue For:
PERMIT

Issue Date:
07/01/2025

Revisions:

NO.	REASON	DATE
2	PERMIT SET	9/17/25

Principal in Charge:
TUCKER MATTHEWS

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Drawn By:
KYLE KAESER

Project
NR-25757

Sheet
MECHANICAL SCHEDULES

Sheet
M1.1

BID SET FOR
10/8/2025

1. GENERAL CONDITIONS
   a. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF NEW JERSEY, MERCER COUNTY, THE WEST WINDSOR BUILDING DEPARTMENT, BUILDING OWNER, AND ALL AUTHORITIES HAVING JURISDICTION.
   b. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.
   c. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL CONSTRUCTION PROGRESS.
   d. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE, AND SHALL REPLACE ANY OF SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COSTS TO OWNER.
   e. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH OWNER SPECIFICATIONS AND STANDARDS UNLESS NOTED OTHERWISE ON PLANS.
   f. ALL WORK IS TO BE CONDUCTED IN ACCORDANCE WITH THE BUILDING'S RULE AND REGULATIONS.

2. OPERATING AND MAINTENANCE INSTRUCTIONS
   a. AFTER FINAL TESTS AND ADJUSTMENTS, FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATION FOR EQUIPMENT INSTALLED.
   b. PROVIDE THE OWNER WITH OPERATION AND MAINTENANCE MANUALS.
   c. GUARANTEE AND SERVICE
      1. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FINAL ACCEPTANCE OF THE INSTALLATION BY THE OWNER.
      2. THE CONTRACTOR SHALL DURING THE PERIOD OF GUARANTEE REPLACE OR REPAIR AT HIS OWN EXPENSE ANY PIECE OF EQUIPMENT AND/OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGE TO SURROUNDING WORK CAUSED BY THE FAILURE, REPAIR OR REPLACEMENT OF DEFECTIVE EQUIPMENT AT HIS OWN EXPENSE.

3. SHOP DRAWINGS AND EQUIPMENT SUBMISSIONS
   a. ELECTRONIC COPIES OF DUCTWORK AND PIPING SHOP DRAWINGS AND CERTIFIED EQUIPMENT MANUFACTURER'S SUBMITTAL DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION, ERECTION OR PURCHASE.
   b. PRODUCT DATA – SUBMIT MANUFACTURER'S PRINTED LITERATURE, CATALOG CUTS, CERTIFIED EQUIPMENT PERFORMANCE DATA, WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS.
   c. SHOP DRAWINGS – SUBMIT PLANS, SECTIONS, DETAILS, SCHEDULES, AND CALCULATIONS. LAYOUTS SHALL BE DOUBLE LINE, ¼"=1'-0" COORDINATED WITH OTHER TRADES AND WITH BUILDING CONSTRUCTION ELEMENTS.
   d. MAINTENANCE MANUALS – PREPARE OPERATING AND MAINTENANCE MANUAL INCLUDING THE FOLLOWING:
      1. MANUFACTURER'S LITERATURE DESCRIBING EACH PIECE OF EQUIPMENT.
      2. COPIES OF PRODUCT WARRANTIES AND GUARANTEES.
      3. OPERATING AND MAINTENANCE PROCEDURES, SERVICING INSTRUCTIONS.
   e. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE APPROVED BY THE ENGINEER OF RECORD.

4. RECORD DRAWINGS
   a. ELECTRONIC RECORD DRAWINGS SHALL BE PROVIDED TO DEPICT AN ACCURATE AND COMPLETE RECORD OF THE WORK INSTALLED.

5. APPROVALS AND SUBSTITUTIONS
   a. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHEREVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE MADE, THEY SHALL CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM. CRITERIA AS DELINEATED FOR EQUIPMENT SHALL BE INTERPRETED AS MINIMUM PERFORMANCE REQUIREMENTS.
   b. SUBSTITUTED EQUIPMENT WHERE PERMITTED MUST CONFORM TO SPACE REQUIREMENTS. ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY MODIFICATION OF RELATED SYSTEMS OR ADDITIONAL COSTS THAT RESULT FROM SUBSTITUTED EQUIPMENT SHALL BE BORNE BY THIS CONTRACTOR.

6. TESTING, ADJUSTING, AND BALANCING
   a. WORK IN THIS SECTION INCLUDES THE PROVIDING OF LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR COMPLETE TESTING, ADJUSTING, AND BALANCING OF ALL HVAC SYSTEMS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PROCEDURES AND STANDARDS DESCRIBED IN THE LATEST MANUALS AS PUBLISHED BY ASHRAE AND SMACNA FOR ALL AIR AND HYDRONIC SYSTEMS.
   b. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF AN AIR AND HYDRONIC TESTING AND BALANCING SPECIALIST WHO IS NEBB CERTIFIED.
   c. ALL INSTRUMENTS USED SHALL BE ACCURATELY CALIBRATED AND MAINTAINED IN GOOD WORKING ORDER.
   d. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL BALANCING DAMPERS, PRESSURE TAPS, GAUGES AND OTHER SIMILAR APPURTENANCES AS REQUIRED FOR A PROPERLY BALANCED SYSTEM AT NO ADDITIONAL COSTS TO THE OWNER.
   e. ALL BALANCING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NEBB STANDARDS AND PROCEDURES.
   f. THE TEST PROCEDURE SHALL INCLUDE BUT NOT BE LIMITED TO:
      1. PITOT TUBE TRAVERSE READINGS OF MAIN SUPPLY, RETURN, AND EXHAUST DUCTS.
      2. TEST AND ADJUST SYSTEM FOR THE DESIGN SUPPLY, RETURN, AND EXHAUST AIR QUANTITIES WITHIN 5% OF DESIGN.
      3. TEST AND RECORD SUPPLY AIR TEMPERATURES.
      4. TEST AND RECORD ROOM AIR TEMPERATURES.
      5. ADJUST ALL MAIN SUPPLY, EXHAUST AND RETURN DUCTS TO WITHIN 5% OF DESIGN CFM.
      6. ADJUST ALL TERMINAL UNITS TO PROPER DESIGN MINIMUM AND MAXIMUM CFMS AND WATER FLOW RATES.
      7. TEST AND ADJUST EACH AIR DEVICE TO WITHIN 5% OF DESIGN CFM.
      8. TEST AND ADJUST ALL TEMPERATURE, PRESSURE, AND FLOW SENSORS TO WITHIN MANUFACTURER SPECIFIED CALIBRATION RANGE.
      9. TEST AND ADJUST ALL ACTUATOR LINKAGES.
      10. TEST AND ADJUST ALL ROOM PRESSURE BALANCES.
      11. TEST AND ADJUST ALL VAV BOXES TO WITHIN 5% OF DESIGN CFM
      12. TEST BOTH HEATING AND COOLING FUCNTIONS OF EACH PIECE OF EQUIPMENT.
   g. THE CONTRACTOR SHALL SUBMIT A REPORT OF ALL INITIAL AND FINAL TESTING AND BALANCING DATA TO BE REVIEWED BY THE ENGINEER OF RECORD.
   h. IF THE TESTING AND BALANCING REPORT IS REJECTED BY THE ENGINEER DUE TO INCOMPLETENESS OR INACCURACY, THE TESTING AND BALANCING AGENT SHALL PERFORM ADDITIONAL TESTING AND BALANCING SERVICES AT NO ADDITIONAL COST TO THE OWNER, AND SUBMIT ADDITIONAL REPORTS TO THE ENGINEER UNTIL THE ENGINEER ACCEPTS THE FINAL TESTING AND BALANCING REPORT.
   i. ALL OPENINGS IN DUCTS AND PLENUMS AND OTHER SIMILAR ITEMS AS A RESULT OF THE BALANCING WORK SHALL BE REPAIRED BY THE CONTRACTOR IN A SUITABLE MANNER.

7. ACCESS DOORS IN FINISHED CONSTRUCTION
   a. IN DRYWALL CEILINGS, CONTRACTOR SHALL SUPPLY LIFT OUT SUPPLY DIFFUSERS WHEREVER POSSIBLE IN PLASTER FRAME FOR ACCESS TO ABOVE CEILING SPACE. PROVIDE SUFFICIENT FLEX DUCT LENGTH (UP TO 5') TO ALLOW FOR DIFFUSER TO BE TEMPORARILY MOVED.
   b. THIS CONTRACTOR SHALL PREPARE A LIST OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DAMPERS, CONTROLS, AND OTHER SIMILAR DEVICES WHICH SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR WHO SHALL FURNISH AND INSTALL THE SAME. ACCESS DOORS SHALL BE OF AMPLE SIZE (18x18 MINIMUM) TO ALLOW FOR FULL ACCESS AND MAINTENANCE OF CONCEALED EQUIPMENT. COORDINATE LOCATION WITH ARCHITECT AND EQUIPMENT MANUFACTURER ACCESS REQUIREMENTS.
   c. THIS CONTRACTOR IN ADVANCE OF CEILING INSTALLATIONS SHALL SUITABLY FIELD TAG AND IDENTIFY ALL CONCEALED EQUIPMENT, DAMPERS, ETC. WHICH REQUIRE ACCESS DOOR PROVISIONS.

8. ELECTRICAL WIRING AND WIRING DIAGRAMS
   a. GENERAL CONTRACTOR TO COORDINATE ITEMS BELOW. CLEARLY COMMUNICATE TO EACH TRADE DURING BIDDING IF THE DIRECTIVE IS TO BE DIFFERENT.
      1. ELECTRICAL POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
      2. THE MECHANICAL CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL TERMINAL POINT TO TERMINAL POINT, COMPLETELY COORDINATED AND INTEGRATED WIRING DIAGRAMS FOR ALL WIRING REQUIRING FIELD INSTALLATIONS BY THE ELECTRICAL CONTRACTOR.
      3. SPECIFIC WIRING DIAGRAMS OF FACTORY INSTALLED EQUIPMENT WIRING SHALL ALSO BE SUBMITTED FOR APPROVAL AND FURNISHED TO THE ELECTRICAL CONTRACTOR FOR HIS INSTALLATION REQUIREMENTS AND OTHER USES.
      4. MECHANICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT VENDOR AND ELECTRICAL CONTRACTOR TO ENSURE THAT A DISCONNECT IS PROVIDED AS REQUIRED FOR ALL EQUIPMENT.

9. CODES, PERMITS, AND INSPECTIONS
   1. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS, PAYING ALL NECESSARY FEES, AND OBTAINING ALL NECESSARY INSPECTIONS OF WORK AS RELATED TO THIS PROJECT.

10. MECHANICAL PIPING
    a. CONDENSATE PIPING
       1. PIPING SHALL MAINTAIN A MINIMUM HORIZONTAL SLOPE IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN ONE-EIGHT UNIT VERTICAL TO 12 UNITS HORIZONTAL.
       2. CONNECT CONDENSATE DRAIN PANS USING NPS 1-1/4, ASTM B88, TYPE M COPPER TUBING. EXTEND TO NEAREST EQUIPMENT OR ROOF DRAIN. CONSTRUCT DEEP TRAP AT CONNECTION TO DRAIN PAN AND INSTALL CLEANOUTS AT CHANGES IN DIRECTION.
       3. CONDENSATE-DRAIN PIPING INSTALLED ABOVE GROUND TO BE: TYPE DWV, DRAWN-TEMPER COPPER TUBING, WROUGHT-COPPER FITTINGS, AND SOLDERED OR PRESSURE-SEALED JOINTS.
       4. INSULTATION FOR CONDENSATE AND EQUIPMENT DRAIN WATER BELOW 60°F IS TO BE CELLULAR GLASS 1-1/2 INCHES THICK OR FLEXIBLE ELASTOMERIC 3/4 INCHES THICK.
    b. PIPE STANDS FOR SUPPORT OF ROOF-MOUNTED PIPING
       1. BRAND: MIRO INDUSTRIES
       2. DESCRIPTION: SINGLE BASE UNIT WITH PILLOW BLOCK SADDLE, INTEGRAL-ROD ROLLER, STRUT, OR PIPE CLAMPS, FOR ROOF INSTALLATION WITHOUT MEMBRANE PENETRATION.
       3. BASE: POLYCARBONATE
       4. HARDWARE: GALVANIZED STEEL STRUT / HANGERS, STAINLESS STEEL FASTENERS
       5. ACCESSORIES: SUPPORT / PROTECTION PADS MADE FROM RECYCLED RUBBER

11. COORDINATION
    a. ALL NEW DUCTWORK SHALL BE KEPT AS HIGH AS POSSIBLE TO MAINTAIN CEILING HEIGHTS AS SHOWN ON ARCHITECTURAL DRAWINGS.
    b. PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED TO COORDINATE WITH OTHER SYSTEMS, TRADES, OR STRUCTURE.
    c. WHERE PIPING, DUCTWORK, AND LIGHTS CONFLICT, THE DUCTWORK SHALL BE RECONFIGURED TO COORDINATE WITH SITE CONDITIONS.
    d. COORDINATE LOCATIONS OF ALL EQUIPMENT TO MAINTAIN CODE REQUIRED AND MANUFACTURER RECOMMENDED ACCESS.
    e. COORDINATE PROVISION OF OPENINGS IN WALLS AND SLABS, POURING OF CONCRETE PADS, SETTING OF SLEEVES, ANCHORS, AND CURBS.
    f. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT.
    g. SEQUENCE PHASES OF MECHANICAL WORK WITH OTHER TRADES.

12. INSULATION
    a. INSULATION SHALL BE APPLIED TO DUCTWORK AND PIPING OF MATERIALS AS SPECIFIED BELOW.
    b. INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS NOT TO EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50. ACCESSORIES SUCH AS ADHESIVES, MASTICS, CEMENTS, AND TAPES FOR FITTINGS SHALL HAVE THE SAME COMPONENT RATING AS LISTED ABOVE. ALL PRODUCTS OR THEIR SHIPPING CARTONS SHALL BEAR A LABEL INDICATED THAT RATINGS DO NOT EXCEED THESE REQUIREMENTS.
    c. DUCTWORK INSULATION MATERIAL
       1. ALL VISIBLE, NON-CONCEALED INDOOR AIR SUPPLY DUCTWORK SHALL BE INTERNALLY LINED WITH JOHNS MANVILLE LINACOUSTIC RC FIBERGLASS DUCT LINER WITH REINFORCED COATING SYSTEM (OR EQUIVALENT).
          A. LINACOUSTIC RC DUCT LINER INSTALLATION MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NAIMA FIBROUS GLASS DUCT LINER STANDARDS OR SMACNA HVAC DUCT CONSTRUCTION STANDARD. ALL TRANSVERSE EDGES, OR ANY EDGES EXPOSED TO AIRFLOW, MUST BE COATED WITH JOHNS MANVILLE SUPERSEAL (OR EQUIVALENT).
       2. ALL NON-VISIBLE, OR CONCEALED INDOOR AIR SUPPLY DUCTWORK SHALL BE INSULATED WITH 1-1/2 LB/FT3 DENSITY GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.25 AT 75F MEAN TEMPERATURE WITH REINFORCED FOIL-FACED FLAME RESISTANT KRAFT VAPOR BARRIER.
          A. INSULATION SHALL BE SECURED WITH DUCT ADHESIVE. ALL JOINTS SHALL BE SEALED BY ADHERING A 2" SELF SEALING LAP AT ALL JOINTS WITH VAPOR BARRIER ADHESIVE OR 3" STRIPS OF VAPOR BARRIER JACKET APPLIED WITH VAPOR BARRIER ADHESIVE. INSULATION SHALL BE ADHERED WITH 16GA COPPER CLAD WIRE OR FIBERGLASS CORD ON 12" CENTERS. ON DUCTS OVER 24" WIDE, WELDED PINS AND CLIPS SHALL BE USED ON THE UNDERSIDE.
    d. ALL DUCTS SERVING TYPE 1 AND TYPE 2 HOODS SHALL BE WRAPPED WITH 1-1/2", 2 HOUR RATED 3M FIRE BARRIER DUCT WRAP 615+, RATED FOR ZERO CLEARANCE TO COMBUSTIBLES. INSTALLER MUST FOLLOW INSULATION MANUFACTURERS INSTRUCTIONS FOR INSTALLATION IN ORDER TO MAINTAIN ZERO CLEARNCE TO COMBUSTIBLES AND 2 HOUR FIRE RATING. ALL DUCT ACCESS DOORS MUST BE INSULATED ACCORDING TO INSULATION MANUFACTURER'S INSTRUCTIONS AND MUST BE EASILY OPERABLE WITHOUT DAMAGING INSULATION.

13. DUCTWORK
    a. ALL DUCTWORK, DAMPERS, AND ALL AUXILIARY DEVICES AND WORK NECESSARY TO MAKE THE HVAC SYSTEMS COMPLETE AND FULLY FUNCTIONAL SHALL BE FURNISHED AND INSTALLED.
    b. IN ACCORDANCE WITH SMACNA STANDARDS PROVIDE DUCTWORK CASING ACCESS AIR CONNECTION AND BRANCH DUCT TO AIR OUTLETS FOR BALANCING PURPOSES, DOORS TO ALL CONCEALED CONTROLS, FUSIBLE LINKS OF DAMPERS, ETC.
    c. PROVIDE FUSIBLE LINK FIRE DAMPERS / AUTOMATIC RESET COMBINATION FIRE SMOKE DAMPERS AT LOCATIONS SHOWN ON DRAWINGS AND WHERE NECESSARY TO COMPLY WITH LOCAL OR OTHER AGENCIES OR JURISDICTIONS REQUIRING THEIR INSTALLATIONS AND IN COMPLIANCE WITH THEIR CONSTRUCTION REQUIREMENTS.
    d. DUCTWORK LAYOUTS AND ROUTES AS SHOWN ON THE DRAWINGS ARE SCHEMATIC. THEREFORE CHANGES IN DUCT SIZES AND/OR LOCATIONS SHALL BE MADE WHERE NECESSARY TO CONFORM TO SPACE CONDITIONS OR OBTAIN MAXIMUM HEADROOM CONDITIONS; WITHOUT ADDITIONAL COSTS TO THE OWNER.
    e. EXCEPT AS OTHERWISE NOTED, ALL DUCTS AND OTHER SHEET METAL WORK SHALL BE PRIME SHEETS OF GALVANIZED STEEL AND COMPLY WITH NFPA 90A AND ASTM A525 AND A527.
       1. ALL VISIBLE DUCTWORK IN DINNING AREAS TO BE FABRICATED FROM PAINT GRADE (PAINT GRIP) GALVANIZED STEEL.
    f. DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF SMACNA AND ASHRAE. FOR DUCTWORK DOWNSTREAM OF AIR CONDITIONING UNITS, A PRESSURE CLASSIFICATION OF 4" W.G. MAY BE USED. FOR DUCTWORK UPSTREAM OF AIR CONDITIONING UNITS, A PRESSURE CLASSIFICATION OF 3" W.G. MAY BE USED. FOR DUCTWORK DOWNSTREAM OF VAV BOXES, A PRESSURE CLASSIFICATION OF 2" MAY BE USED.
    g. U.S. STANDARD GAUGES FOR DUCTWORK ARE TO CONFORM TO THE FOLLOWING REQUIREMENTS:
       1. UP TO 30" WIDE – 24 GAUGE
       2. 31" TO 48" WIDE – 22 GAUGE
       3. 49" TO 60" WIDE – 20 GAUGE
       4. 61" AND OVER – 18 GAUGE
    h. MATERIALS FOR HANGERS AND SUPPORTS, INCLUDING FASTENERS, ANCHORS, RODS, STRAPS, TRIM, AND ANGLES SHALL MATCH THE DUCT FURNISHED. HORIZONTAL DUCTS CAN BE SUPPORTED WITH HANGERS SECURED TO THE EXISTING CONCRETE SLAB ABOVE. THE EXISTING TABS THAT ARE EMBEDDED IN THE CONCRETE ARE TO BE INSPECTED AND USED IN LIEU OF NEW EXPANSION BOLTS WHEREVER POSSIBLE.
    i. ALL DUCT SIZES SHOWN ON THE CONTRACT DRAWINGS ARE CLEAR INSIDE DIMENSIONS. ATTENTION MUST BE PAID BY THE CONTRACTOR TO FABRICATED DUCTWORK SO THAT NOTED CLEAR INSIDE DIMENSIONS ARE MAINTAINED AFTER THE INSTALLATION OF ANY SPECIFIED DUCT LINER.
    j. RADIUS ELBOWS SHALL HAVE A CENTERLINE RADIUS EQUAL TO 1 TIMES THE DUCT WIDTH. PROVIDE SPLITTER VANES IN RADIUS ELBOWS WHERE INDICATED ON DRAWINGS. SQUARE ELBOWS SHALL HAVE DOUBLE THICKNESS TURNING VANES MAXIMUM 4" ON CENTER FOR DUCTS WITH A CROSS SECTIONAL AREA 4 SQUARE FT OR LESS, HANGERS SHALL BE NO MORE THAN 8 FT APART. FOR DUCTS WITH CROSS SECTIONAL AREA BETWEEN 4 AND 10 SQUARE FT, HANGERS SHALL BE NO MORE THAN 6 FT APART. FOR DUCTS WITH CROSS SECTIONAL AREA OVER 10 SQUARE FT, HANGERS SHALL BE NO MORE THAN 4 FT APART.
    k. ALL BRANCHES, TAKE-OFFS AND TIE-INS TO ALL BASE BUILDING DUCTS SHALL BE EQUIPPED WITH OPPOSED BLADE VOLUME DAMPERS.
    l. ALL NEW AND EXISTING LOW VELOCITY DUCTS SHALL BE SEALED TO MEET SEAL CLASS A4 W.G. OF SMACNA.
    m. ALL ACCESS DOORS SHALL BE PER SMACNA STANDARDS. PROVIDE ACCESS DOORS IN INSULATED DUCTS OF INSULATED DOUBLE WALL CONSTRUCTION NOT LESS THAN 20GA. ACCESS DOORS IN UNINSULATED DUCTS SHALL BE SINGLE WALL 18GA. PROVIDE ALL ACCESS DOORS WITH SPONGE RUBBER GASKETS AROUND THE ENTIRE PERIMETER.
    n. FIRE, SMOKE, AND FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH DAMPER MANUFACTURER'S DETAILS.
    o. DUCTS CONNECTING TO FIRE, SMOKE, AND FIRE/SMOKE DAMPER SLEEVE CONNECTIONS SHALL BE BREAKAWAY STYLE.
    p. PROVIDE ACCESS DOORS ON EITHER SIDE OF FIRE, SMOKE AND FIRE/SMOKE DAMPERS TO PERMIT INSPECTION, TESTING, AND RESETTING OF DAMPERS.
    q. ALL KITCHEN VENTILATION DUCT INSTALLATION AND DESIGN SHALL CONFIRM TO ALL CURRENT CODES, NFPA 96, AND NFPA 13. GREASE DUCTS SHALL BE CONSTRUCTED OF NOT LESS THAN 0.055 INCH (16 GAUGE) GALVANIZED STEEL OR STAINLESS STEEL (STAINLESS STEEL ONLY FOR DISHWASHER EXHAUST DUCTS) AT LEAST 0.044 INCH IN THICKNESS. JOINTS AND SEAMS SHALL BE MADE WITH A CONTINUOUS LIQUID-TIGHT WELD OR BRAZE MADE ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM. DUCT BRACING AND SUPPORTS SHALL BE MADE OF NON-COMBUSTIBLE MATERIALS. BOLTS AND OTHER MECHANICAL FASTENERS SHALL NOT PENETRATE DUCT WALLS.
    r. GREASE DUCT SYSTEMS SHALL SLOPE NOT LESS THAN 1/4" PER LINEAR FOOT TOWARD THE HOOD OR TOWARD AN APPROVED GREASE RESERVOIR. WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL BE NOT LESS THAN 1 INCH PER FOOT.
    s. ANY PORTION OF A GREASE DUCT INACCESSIBLE FROM THE DUCT ENTRY OR DISCHARGE SHALL BE PROVIDED WITH ADEQUATE CLEANOUT OPENINGS. CLEANOUT OPENINGS SHALL BE EQUIPPED WITH TIGHT-FITTING DOORS CONSTRUCTED OF STEEL HAVING A THICKNESS NOT LESS THAN THAT REQUIRED FOR THE DUCT. CLEANOUTS SHALL BE LOCATED BASED ON ALL CURRENT CODES IN THE FIELD AND SHALL BE READILY ACCESSIBLE FOR MAINTENANCE.

14. GRILLES, REGISTERS, AND DIFFUSERS
    a. FURNISH AND INSTALL ALL METAL DIFFUSERS, GRILLES, AND REGISTERS AS INDICATED ON THE CONTRACT DRAWINGS.
    b. ALL CEILING TYPE AIRDIFFUSERS SHALL BE PROVIDED WITH AIR EQUALIZING DEFLECTORS, FULLY ADJUSTABLE FOR HORIZONTAL TO VERTICAL AIR FLOW.
    c. EXACT LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING PLANS. ARCHITECT SHALL HAVE FINAL DISCRETION OF AIR DEVICE LOCATIONS.
    d. COORDINATE MOUNTING STYLE WITH ARCHITECTURAL CEILING PLANS

15. HANGERS, SUPPORTS, ANCHORS AND GUIDES
    a. ALL REQUIRED HANGERS, SUPPORTS, ANCHORS AND GUIDES SHALL BE PROVIDED AND INSTALLED BY THIS CONTRACTOR.
    b. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL AND SEISMIC MOVEMENT OF PIPING SYSTEMS, TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS, AND SIMILAR UNITS.
    c. ALL PIPING SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED. IN NO CASE SHALL PIPING HANGERS BE SUPPORTED BY VERTICAL EXPANSION BOLTS.
    d. WHEN REMOVAL OF FIRE PROOFING IS REQUIRED FOR NEW INSTALLATION PURPOSES, SUCH REMOVAL SHALL BE PERFORMED BY THE CONTRACTOR AND KEPT TO A MINIMUM. THE CONTRACTOR SHALL REPLACE ALL REMOVED FIREPROOFING WITH NEW FIREPROOFING TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
    e. SUPPORT HANGERS FROM BUILDING STEEL FRAMING WITH AN APPROVED TYPE C CLAMP INSERT. PROVIDE ANY ADDITIONAL STEEL SUPPORTS BETWEEN EXISTING FRAMING MEMBERS AS MAY BE REQUIRED. NO HANGERS SHALL BE SUPPORTED FROM METAL DECK FLOOR. WELDING TO THE BUILDING STRUCTURAL MEMBERS IS NOT PERMITTED UNLESS APPROVED BY THE BUILDING OWNER.

16. ROOF MOUNTED FANS
    a. PROVIDE FANS AS SCHEDULED. INSTALL ALL FANS PROVIDED BY OWNER VENDOR.
    b. FAN SHALL BE MANUFACTURERD AT AN ISO 9001 CERTIFIED FACILITY. FAN SHALL BE LISTED BY UNDERWRITER LABORATORIES (UL 705). FAN SHALL BEAR THE AMCA CERTIFIED RATING SEAL FOR SOUND AND AIR PERFORMANCE. FAN SHALL BE NFPA 90A, NFPA 70, ASHRAE 62.1, AND ASHRAE/IED 90.1 COMPLIANT. ALL FANS SERVING TYPE 1 AND TYPE 2 HOODS SHALL BE UL 762 COMPLIANT FOR RESTAURANT EXHAUST APPLICATIONS.
    c. MOTOR SHALL BE AN ELECTRONICALLY COMMUTATED MOTOR RATED FOR CONTINUOUS DUTY AND FURNISHED EITHER WITH INTERNALLY MOUNTED POTENTIOMETER SPEED CONTROLLER OR WITH LEADS FOR CONNECTION TO 0-10 VDC EXTERNAL CONTROLLER.
    d. FAN SHALL BE SPUN ALUMINUM, ROOF MOUNTED, DIRECT DRIVEN, UPBLAST CENTRIFUGAL EXHAUST VENTILATOR.
    e. INSTALLATION:
       1. INSTALL LEVEL, PLUMB, AND WITH CLEARANCES FOR SERVICE, MAINTENANCE, AND AS REQUIRED FOR KITCHEN EXHAUST APPLICATIONS TO BUILDING COMPONENTS.
       2. SECURE FAN TO ROOF WITH ZINC-PLATED HARDWARE.
    f. PROVIDE VENTED CURB EXTENSION, GREASE TRAP BOX, EXTERNAL WIRING, AND DISCHARGE EXTENSION FOR KITCHEN EXHAUST APPLICATIONS.

17. ROOF TOP UNITS
    a. PROVIDE ALL HVAC UNITS AS SCHEDULED.
    b. PROVIDE ALL TRANSITIONS FROM DUCT CONNECTIONS TO DUCT SIZES SHOWN ON PLANS.
    c. PROVIDE CANVAS FLEX CONNECTORS AT UNIT DUCT CONNECTIONS.
    d. ALL UNITS SHALL BE INSTALLED LEVEL AND PLUMB.
    e. ALL UNITS SHALL COMPLY WITH NFPA 90A FOR DESIGN FABRICATION, AND INSTALLATION OF RTU AND COMPONENTS.
    f. PROVIDE SPRING VIBRATION ISOLATION FOR ALL UNITS.
    g. INSTALL NEW FILTERS IN EACH UNIT AT TURNOVER.
    h. UNITS MUST BE TURNED OVER CLEAN AND FREE OF DEBRIS.
    i. ROUTE CONDENSATE DRAINS WITH AIR GAP TO STORM DRAINAGE.
    j. FAN AND DRIVE ASSEMBLIES SHALL BE STATICALLY AND DYNAMICALLY BALANCED AND DESIGNED FOR CONTINUOUS OPERATION AT MAXIMUM-RATED FAN SPEED AND MOTOR HORSEPOWER.
    k. SUPPLY-AIR FANS SHALL BE CENTRIFUGAL, RATED ACCORDING TO AMCA 210; GALVANIZED OR PAINTED STEEL; MOUNTED ON SOLID-STEEL SHAFT.
    l. DRIVES SHALL BE FACTORY-MOUNTED AND DIRECT DRIVE.
    m. OUTDOOR AND RETURN AIR DAMPERS SHALL BE LOW-LEAKAGE.

18. SPLIT SYSTEMS
    a. PROVIDE ALL HVAC UNITS AS SCHEDULED.
    b. PROVIDE ALL TRANSITIONS FROM DUCT CONNECTIONS TO DUCT SIZES AS SHOWN ON PLANS.
    c. PROVIDE CANVAS FLEX CONNECTORS AT UNIT DUCT CONNECTIONS.
    d. ALL UNITS ARE TO BE INSTALLED LEVEL AND PLUMB.
    e. ALL UNITS SHALL COMPLY WITH NFPA 90A FOR DESIGN FABRICATION, AND INSTALLATION OF SPLIT SYSTEM AND COMPONENTS.
    f. PROVIDE VIBRATION ISOLATION HANGERS.
    g. FAN: DIRECT DRIVE, CENTRIFUGAL
    h. CONDENSATE DRAIN PANS:
       1. FABRICATED WITH ONE PERCENT SLOPE IN AT LEAST TWO DIRECTIONS TO COLLECT CONDENSATE FROM COOLING COILS AND TO DIRECT WATER TOWARD DRAIN CONNECITON.
       2. DRAIN CONNECTION: LOCATE AT LOWEST POINT OF PAN AND SIZED TO PREVENT OVERFLOW.
    i. OUTDOOR UNIT:
       1. CASING: STEEL, FINISHED WITH BAKED ENAMINAL, REMOVABLE PANELS FOR ACCESS CONTROLS, WEEP HOLES FOR DRAINAGE, AND MOUNTING HOLES AT BASE.
       2. OUTDOOR UNIT FASTENED TO THE ROOF SHALL BE INSTALLED IN COMPLIANCE WITH THE WIND-RESISTANCE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

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Revisions:	

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2	PERMIT SET	9/17/25

Principal in Charge:	TUCKER MATTHEWS
Project Manager:	TUCKER MATTHEWS
Drawn By:	KYLE KAESER
Project	NR-25757
Sheet	MECHANICAL SPECIFICATIONS
Sheet	M1.2

Bid Set Rev 0
10/8/2025

KEYNOTES

TAG	NOTE
1	TURN RETURN DUCT UP AND FINISH WITH 1/2"x1/2" WELDED WIRE MESH.
2	PROVIDE FULLY WELDED 304 WELDED STAINLESS OR ALUMINUM DUCTWORK FROM EXHAUST FAN AND SLOPED 1/8" PER FOOT BACK TOWARD DISHWASHER. CONNECT TO (2) DISHWASHER POINTS AS REQUIRED BY EQUIPMENT MANUFACTURER. INSULATE WITH 2HR RATED 3M 615+ FIRE BARRIER DUCT WRAP.
3	FULLY WELDED 16GA BLACK IRON EXHAUST DUCT WITH 2HR RATED 3M 615+ FIRE BARRIER DUCT WRAP UP TO EXHAUST FAN. SLOPE DUCT AS NECESSARY ABOVE CEILING TO ENSURE ALL STRUCTURAL MEMBERS ARE AVOIDED. MINIMUM OFFSET ALLOWED PER CODE FOR GREASE DUCT IS 2%.
4	THERMOSTATS FOR RTU'S 1-6. STACK IN (2) GROUPS OF (3) TALL.
5	REMOTE TEMPERATURE AND HUMIDITY SENSORS TO PROVIDE FEEDBACK TO RTU THERMOSTATS LOCATED IN OFFICE 124. MOUNT AT 48" AFF. PURCHASE BLACK COVER FOR SENSORS OR PAINT COVER BLACK, COORDINATE WITH ARCHITECT.
6	ALL S4 DIFFUSERS ARE TO BE ADJUSTED FOR VERTICAL FLOW. REFER TO MANUFACTURERS DOCUMENTATION ON ADJUSTMENT PROCEDURES. ALIGN CENTER OF DIFFUSER WITH OPENINGS IN ARCHITECTURAL CEILING.
7	INSTALL HEATER CONTROLLERS ABOVE DOOR AND EMERGENCY EXIT SIGN, AT APPROXIMATELY 14" AFF. (9) TOTAL CONTROLLERS TO BE INSTALLED. REFERENCE MANUFACTURERS DOCUMENTATION FOR WIRING DETAILS. CONTROLLERS TO BE LABELED FOR THE HEATERS THEY OPERATE.
8	INSTALL (9) HEATER REMOTES STARTING AT 48" AFF; STACK AS NEEDED TO FIT THE AVAILABLE SPACE. CLEARLY LABEL THE REMOTES FOR THE HEATERS THEY OPERATE. LABELS ARE TO BE TYPED OR ENGRAVED.
9	INSTALL 1" THICK ACOUSTIC DUCT LINER IN TRANSFER DUCT.
10	ALL VISIBLE, NON-CONCEALED INDOOR AIR SUPPLY DUCTWORK SHALL BE INTERNALLY LINED WITH JOHNS MANVILLE LINACOUSTIC RC FIBERGLASS DUCT LINER WITH REINFORCED COATING SYSTEM (OR EQUIVALENT). ALL VISIBLE SUPPLY DUCTWORK, RETURN DUCTWORK, AND DUCT ACCESSORIES SHALL BE PAINTED TO ARCHITECTURAL SPECIFICATIONS.
11	ELECTRIC UNIT HEATER TO BE MOUNTED AT SAME HEIGHT AS FIRE PROTECTION BACKFLOW PREVENTER AND SHUT-OFF VALVES. SET THERMOSTAT TO MAINTAIN SPACE TEMPERATURE AT 55 DEG F. HEATER DISCHARGE SHALL NOT BE DIRECTED TOWARDS ANY SPRINKLER HEADS.

1 **MECHANICAL DUCTWORK NEW WORK PLAN**
1/4" = 1'-0"

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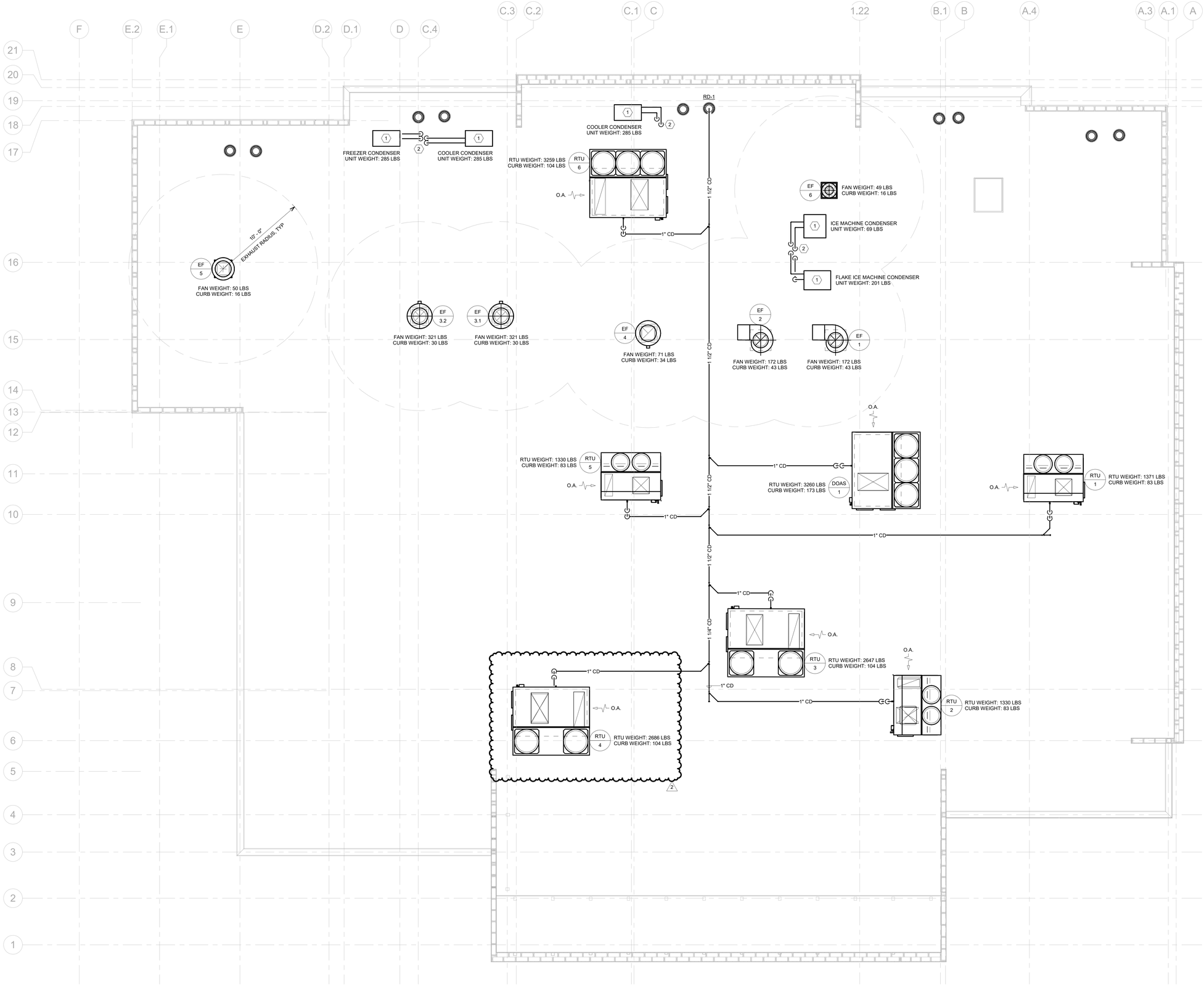
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Project
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MECHANICAL DUCTWORK NEW WORK PLAN
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M2.1

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KEYNOTES

TAG	NOTE
1	KITCHEN VENDOR PROVIDED CONDENSING UNITS SHALL BE INSTALLED AND PIPED BY KITCHEN EQUIPMENT CONTRACTOR. ROUTE REFRIGERANT SUCTION AND LIQUID TO ASSOCIATED EVAPORATORS INDOORS. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
2	PROVIDE AND INSTALL THYBAR PIPE CURB; COORDINATE ADDITIONAL PENETRATION NEEDS WITH ELECTRICAL AND PLUMBING TRADES.

No work or equipment included for the kitchen condensing units or evaps



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

TRUE NORTH

PLAN NORTH

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ARCHITECTURE

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Project
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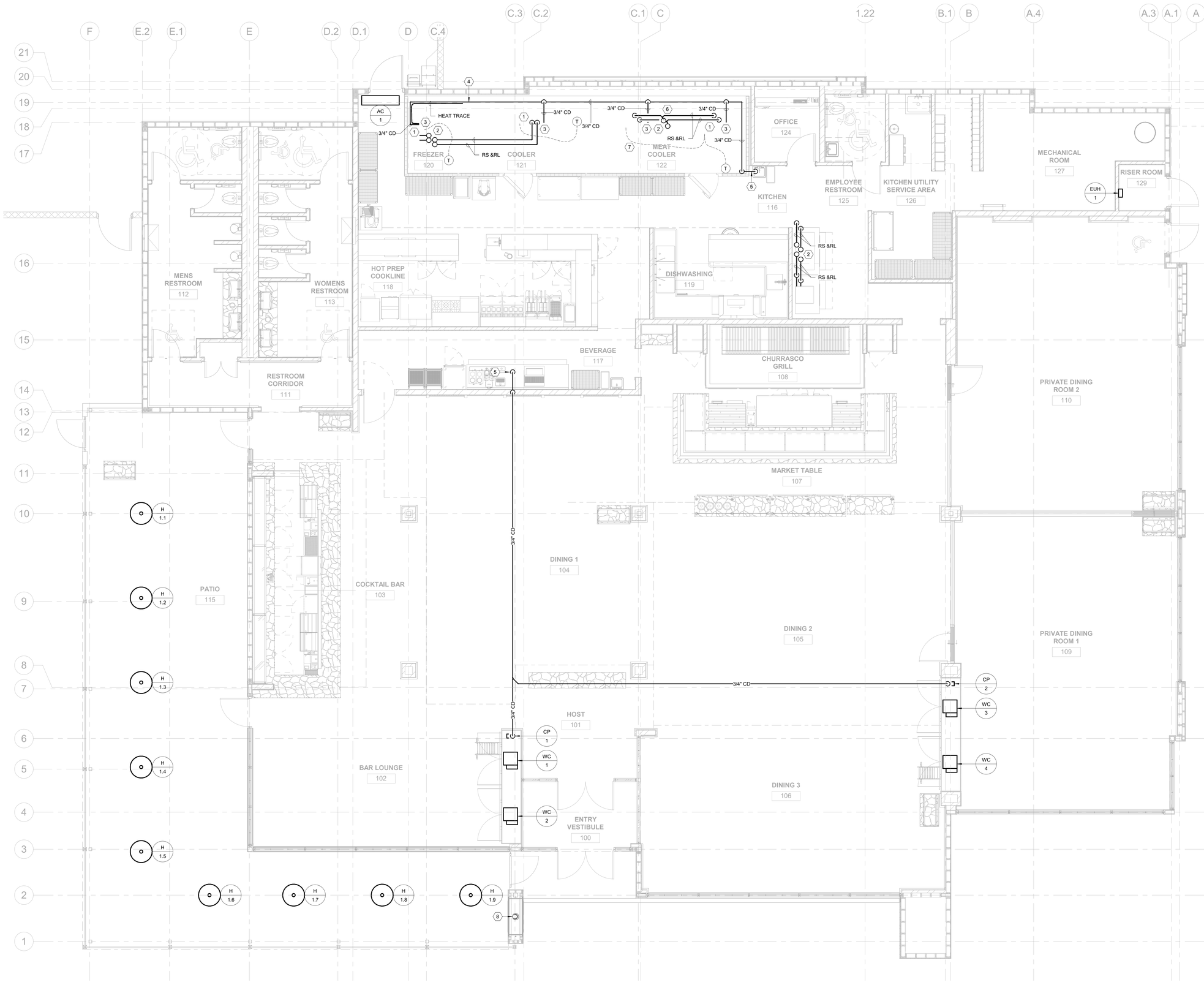
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MECHANICAL ROOF NEW WORK PLAN

Sheet
M2.2

10/8/2025

KEYNOTES

TAG	NOTE
1	INSTALL EVAPORATOR UNITS IN EACH COOLER / FREEZER. COORDINATE LOCATIONS WITH MANUFACTURER DOCUMENTATION. KITCHEN EQUIPMENT CONTRACTOR TO INSTALL AND COORDINATE WITH GC AND MECHANICAL CONTRACTOR.
2	ROUTE REFRIGERANT SUCTION AND LIQUID LINES FROM EVAPORATOR UNITS TO ASSOCIATED CONDENSING UNITS ON THE ROOF. SIZE LINES PER MANUFACTURER RECOMMENDATIONS. KITCHEN EQUIPMENT CONTRACTOR TO INSTALL AND COORDINATE WITH GC AND MECHANICAL CONTRACTOR.
3	EACH EVAPORATOR UNIT MUST HAVE A DEDICATED CONDENSATE TRAP INSTALLED AT THE DRAIN PAN.
4	INSTALL A COMMON CONDENSATE DRAIN LINE TIGHT ALONG REAR WALL. ALL DRAIN LINES MUST BE SLOPED AT LEAST 1":12". THE FREEZER PORTION OF THE CONDENSATION LINE MUST BE HEAT TRACED AND INSULATED. CONTINUE HEAT TRACE AT LEAST 12" INTO COOLER. KITCHEN EQUIPMENT CONTRACTOR TO INSTALL AND COORDINATE WITH GC AND MECHANICAL CONTRACTOR.
5	TERMINATE CONDENSATE LINE AT FLOOR SINK WITH 1" AIR GAP.
6	BOTH COOLER EVAPORATORS ARE TO BE PIPED BACK TO A COMMON CONDENSER. WYE FITTINGS ARE TO BE USED AT THE SPLIT AND EQUAL LENGTH / DIAMETER LINE SETS ARE TO BE INSTALLED FOR EACH EVAPORATOR. KITCHEN EQUIPMENT CONTRACTOR TO SIZE LINES PER MANUFACTURER RECOMMENDATIONS.
7	CONNECT EVAPORATORS WITH FACTORY SUPPLIED CAT5E COMMUNICATION CABLE. SEE MANUFACTURER DOCUMENTATION.
8	VENT FIREPLACE FLUE THROUGH ROOF. PROVIDE VERTICAL TERMINATION CAP. INSTALL PER MANUFACTURER REQUIREMENTS.



1 MECHANICAL PIPING NEW WORK PLAN
1/4" = 1'-0"

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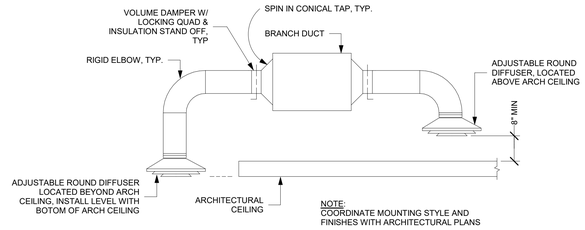
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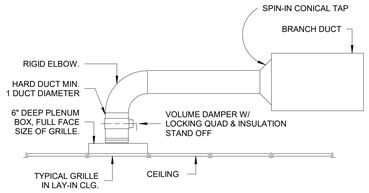
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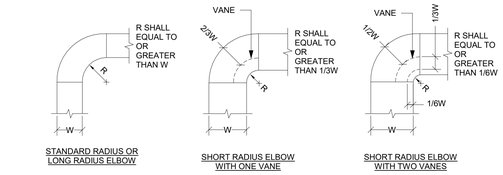
9 SUPPLY DIFFUSER DINING CONNECTION DETAIL

NOT TO SCALE



5 RETURN / EXHAUST GRILLE CONNECTION DETAIL

NOT TO SCALE

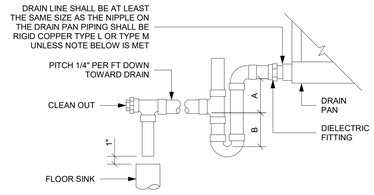


NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

1 DUCTWORK RADIUS ELBOWS DETAIL

NOT TO SCALE



UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MINIMUM	2X

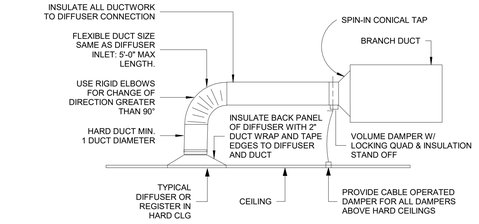
WHERE X = STATIC PRESSURE IN PAN

NOTES:

1. CPVC PIPE MAY BE USED ONLY IF LOCATED INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

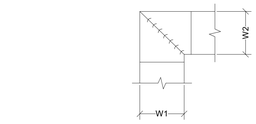
10 AIR HANDLING UNIT DRAIN TRAP DETAIL

NOT TO SCALE



6 SUPPLY DIFFUSER CONNECTION DETAIL - HARD CEILING

NOT TO SCALE

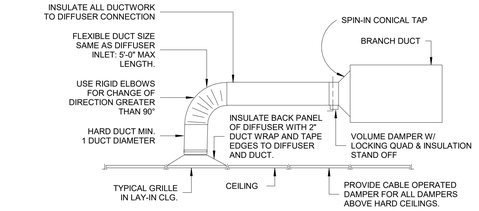


NOTES:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W1 EQUALS W2, AND W1 IS GREATER THAN 20", VANES SHALL BE DOUBLE VANE TYPE.

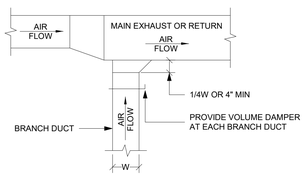
2 DUCTWORK SQUARE VANE ELBOWS DETAIL

NOT TO SCALE



7 SUPPLY DIFFUSER CONNECTION DETAIL - LAY-IN CEILING

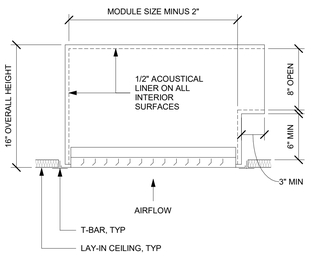
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PLAN VIEW

3 EXHAUST OR RETURN BRANCH DUCTWORK DETAIL

NOT TO SCALE

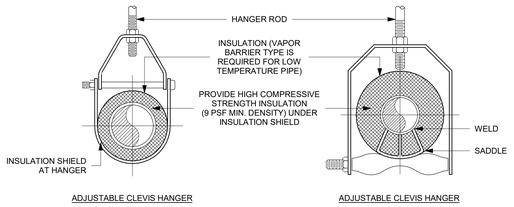


NOTES:

1. SURFACE MOUNTED GRILLES SHALL HAVE SIMILAR DUCT ARRANGEMENTS

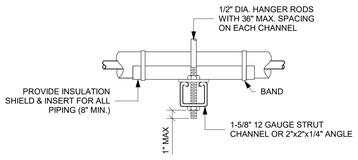
11 R/A GRILLE SOUND BOOT DETAIL

NOT TO SCALE



ADJUSTABLE CLEVIS HANGER

ADJUSTABLE CLEVIS HANGER

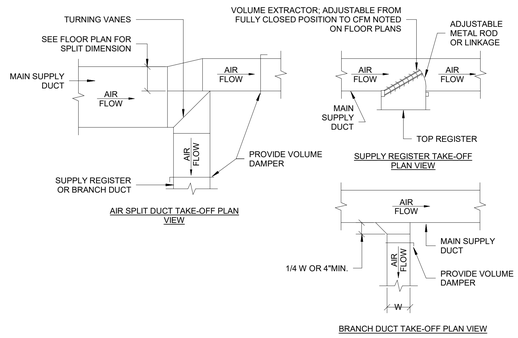


SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING																			
NOM. SIZE	mm [IN]	THRU 20 [THRU 3/4]	25 [1]	32 [1 1/4]	40 [1 1/2]	50 [2]	65 [2 1/2]	75 [3]	100 [4]	125 [5]	150 [6]	200 [8]	250 [10]	300 [12]	350 [14]	400 [16]	450 [18]	500 [20]	600 [24]
PIPE	mm [FT]	2100 [7]	2100 [7]	2100 [7]	2700 [9]	3000 [10]	3400 [11]	3700 [12]	4100 [14]	4900 [16]	5200 [17]	5800 [19]	6700 [22]	7000 [23]	7600 [25]	8200 [27]	8500 [28]	9100 [30]	9600 [32]
TUBING	mm [FT]	1500 [5]	1800 [6]	2100 [7]	2400 [8]	2400 [8]	2700 [9]	3000 [10]	3700 [12]	4000 [13]	4100 [14]	4900 [16]	- -	- -	- -	- -	- -	- -	- -
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																			

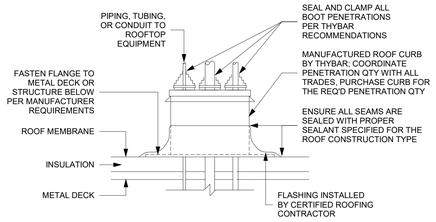
8 PIPE HANGERS DETAIL

NOT TO SCALE



4 SUPPLY DUCTWORK TAKE-OFFS DETAIL

NOT TO SCALE



12 DETL - UTILITY PENETRATION THROUGH ROOF - THYBAR

NOT TO SCALE

Design Consultant:

ARCHITECTURE
INNOVATION & DESIGN in ARCHITECTURE, Inc.
115 Pine Avenue, Suite 250
Long Beach, CA 90802
www.idaexperience.com

Architect:

GEOFFREY B. LIM
AIA, NCARB, LEED AP

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Engineering Consultant:

New Ridge Engineering

Stamp:

Project Owner:

FOGO DE CHÃO

CONVERSION
FOGO DE CHÃO
Project
FOGO DE CHAO - WEST WINDSOR, NJ
600 Lofts Drive
West Windsor, NJ

Issue For:
PERMIT

Issue Date:
07/01/2025

Revisions:

NO.	REASON	DATE
2	PERMIT SET	9/17/25

Principal in Charge:
TUCKER MATTHEWS

Project Manager:
TUCKER MATTHEWS

Drawn By:
KYLE KAESER

Project
NR-25757

Sheet
MECHANICAL DETAILS

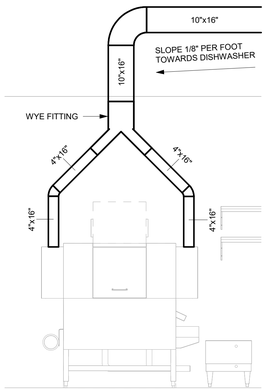
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M4.1

Set Plotted
10/8/2025

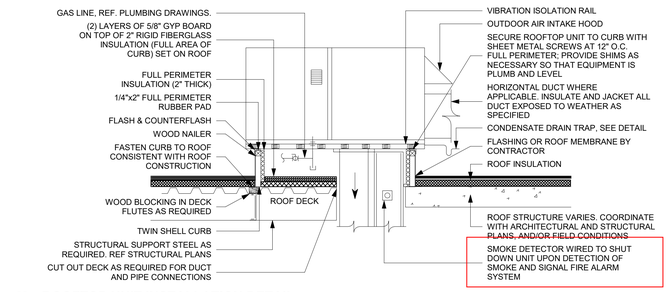
SEQUENCE OF OPERATIONS

1. CONTROL SYSTEM: UNITS SHALL HAVE FACTORY PACKAGED CONTROLS
2. ROOFTOP UNITS:
   - A. UNITS SHALL BE MONITORED BY INTERNAL CASLINK SYSTEM. EACH UNIT IS TO BE PROVIDED WITH REMOTE TEMPERATURE AND HUMIDITY SENSORS WITH A HUMAN INTERFACE THERMOSTAT TO BE INSTALLED IN MANAGERS OFFICE AND CLEARLY LABELED. CONTRACTOR SHALL PROVIDE THERMOSTATS CAPABLE OF 7 DAY PROGRAMMABLE SETBACK SCHEDULE.
   - B. RTU-1, -2, -3, -4, -5
     - a. UNITS SHALL BE CONSTANT VOLUME.
     - b. COOLING CONTROL: DX COOLING COIL SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT AS SENSED BY COMBINATION TEMPERATURE AND HUMIDITY SENSOR AND SET BY HUMAN INTERFACE IN MANAGERS OFFICE.
     - c. HEATING CONTROL: ON A CALL FOR HEATING, THE GAS FURNACE SHALL ACTIVATE TO MAINTAIN SPACE TEMPERATURE SETPOINT AS SENSED BY COMBINATION TEMPERATURE AND HUMIDITY SENSOR AND SET BY HUMAN INTERFACE IN MANAGERS OFFICE.
     - d. DEHUMIDIFICATION CONTROL: WHEN SPACE RH IS ABOVE HUMIDISTAT SET POINT, REHEAT SHALL ACTIVATE AND MODULATE TO MAINTAIN THE SETPOINT RH.
     - e. SPACE TEMPERATURE SETPOINT SHALL BE 70°F INITIALLY. SETPOINT SHALL BE ADJUSTABLE FROM HUMAN INTERFACE TO BE INSTALLED IN MANAGERS OFFICE AND CLEARLY LABELED.
     - f. LIFE SAFETY CONTROL: INTERFACE SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH FIRE ALARM SYSTEM, AND INTERLOCK TO SHUT DOWN UNIT ON DETECTION OF SMOKE.
   - C. RTU-6
     - a. OUTSIDE AIR DAMPER MODULATION SHALL BE INTERLOCKED TO HOOD SYSTEM TOGGLE SWITCH LOCATED ON KITCHEN HOOD. WHEN HOOD SYSTEM IS ON DAMPER SHALL MODULATE TO SCHEDULED "HOOD ON" OUTSIDE AIR CFM. WHEN HOOD SYSTEM IS OFF DAMPER SHALL MODULATE TO "HOOD OFF" OUTSIDE AIR CFM.
     - b. SUPPLY FAN CONTROL: FAN SHALL INCREASE TO SCHEDULED "HOOD ON" CFM WHEN HOOD IS ON. FAN SHALL DECREASE TO SCHEDULED "HOOD OFF" CFM WHEN HOOD IS OFF.
     - c. COOLING CONTROL: DX COOLING COIL SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT AS SENSED BY COMBINATION TEMPERATURE AND HUMIDITY SENSOR IN KITCHEN AND SET BY HUMAN INTERFACE IN MANAGERS OFFICE.
     - d. HEATING CONTROL: ON A CALL FOR HEATING, THE GAS FURNACE SHALL ACTIVATE TO MAINTAIN SPACE TEMPERATURE SETPOINT AS SENSED BY COMBINATION TEMPERATURE AND HUMIDITY SENSOR IN KITCHEN AND SET BY HUMAN INTERFACE IN MANAGERS OFFICE.
     - e. DEHUMIDIFICATION CONTROL: WHEN SPACE RH IS ABOVE HUMIDISTAT SET POINT, REHEAT SHALL ACTIVATE AND MODULATE TO MAINTAIN THE SETPOINT RH.
     - f. LIFE SAFETY CONTROL: INTERFACE SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH FIRE ALARM SYSTEM, AND INTERLOCK TO SHUT DOWN UNIT ON DETECTION OF SMOKE.
3. DOAS-1:
   - a. SUPPLY FAN CONTROL: UNIT START/STOP SHALL BE INTERLOCKED TO HOOD SYSTEM TOGGLE SWITCH LOCATED ON GRILL HOOD.
   - b. COOLING CONTROL: DX COOLING COIL SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT AS SENSED BY COMBINATION TEMPERATURE AND HUMIDITY SENSOR IN KITCHEN AND SET BY HUMAN INTERFACE IN MANAGERS OFFICE.
   - c. HEATING CONTROL: ON A CALL FOR HEATING, THE GAS FURNACE SHALL ACTIVATE TO MAINTAIN SPACE TEMPERATURE SETPOINT AS SENSED BY COMBINATION TEMPERATURE AND HUMIDITY SENSOR IN KITCHEN AND SET BY HUMAN INTERFACE IN MANAGERS OFFICE.
   - d. DEHUMIDIFICATION CONTROL: WHEN SPACE RH IS ABOVE HUMIDISTAT SET POINT, REHEAT SHALL ACTIVATE AND MODULATE TO MAINTAIN THE SETPOINT RH.
   - e. LIFE SAFETY CONTROL: INTERFACE SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH FIRE ALARM SYSTEM, AND INTERLOCK TO SHUT DOWN UNIT ON DETECTION OF SMOKE.
4. EXHAUST FANS:
   - A. EF-1 FAN CONTROL: UNIT START/STOP SHALL BE INTERLOCKED TO HOOD SYSTEM TOGGLE SWITCH LOCATED IN KITCHEN.
   - B. EF-2 FAN CONTROL: UNIT START/STOP SHALL BE INTERLOCKED TO HOOD SYSTEM TOGGLE SWITCH LOCATED IN KITCHEN.
   - C. EF-3.1 FAN CONTROL: UNIT START/STOP SHALL BE INTERLOCKED TO HOOD SYSTEM TOGGLE SWITCH LOCATED IN GRILL.
   - D. EF-3.2 FAN CONTROL: UNIT START/STOP SHALL BE INTERLOCKED TO HOOD SYSTEM TOGGLE SWITCH LOCATED IN GRILL.
   - E. EF-4 FAN CONTROL: UNIT START/STOP SHALL BE INTERLOCKED TO DISHWASHER SYSTEM AND RUN WHILE DISHWASHER IS ACTIVE.
   - F. EF-5 FAN CONTROL: UNIT SHALL OPERATE DURING OCCUPIED PERIODS, CONTRACTOR TO PROVIDE PROGRAMMABLE TIME CLOCK.
   - G. EF-6 FAN CONTROL: UNIT SHALL OPERATE DURING OCCUPIED PERIODS, CONTRACTOR TO PROVIDE PROGRAMMABLE TIME CLOCK.

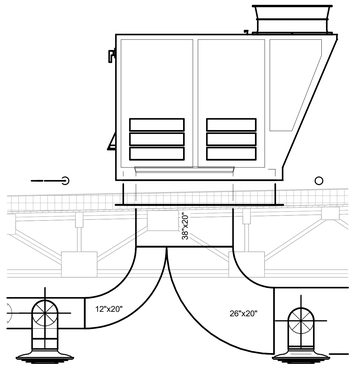
8 SEQUENCE OF OPERATIONS
NOT TO SCALE



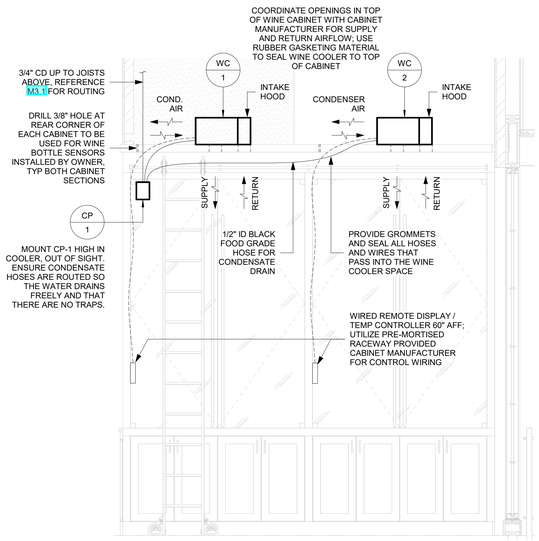
9 DISHWASHER DUCT DETAIL
1/2" = 1'-0"



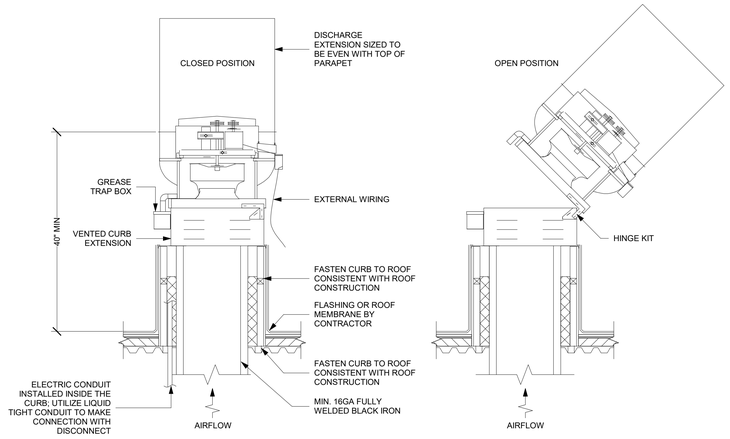
5 ROOFTOP UNIT INSTALLATION DETAIL
NOT TO SCALE



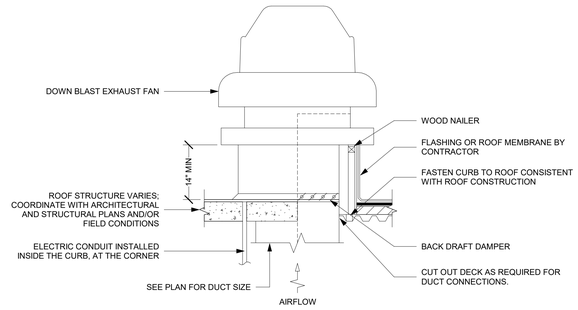
6 RTU 3 - DUCT WYE DETAIL
1/2" = 1'-0"



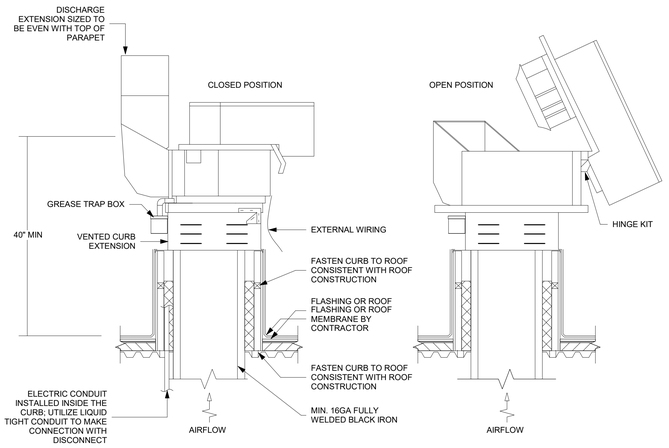
7 TYP. WINE COOLER INSTALLATION
1/2" = 1'-0"



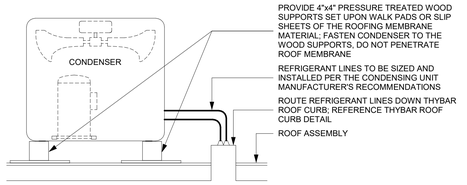
1 UPBLAST EXHAUST FAN WITH HINGE
NOT TO SCALE



2 DOWNBLAST EXHAUST FAN
NOT TO SCALE



3 KITCHEN UPBLAST CENTRIFUGAL EXHAUST FAN WITH HINGE DETAIL
NOT TO SCALE



4 ROOF MOUNTED CONDENSING UNIT
NOT TO SCALE

Design Consultant:
ARCHITECTURE
INNOVATION & DESIGN in ARCHITECTURE, Inc.
115 Pine Avenue, Suite 250
Long Beach, CA 90802
www.idaexperience.com

Architect:
GEOFFREY B. LIM
AIA, NCARB, LEED AP

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Engineering Consultant:
New Ridge Engineering

Stamp:

Project Owner:
FOGO DE CHÃO

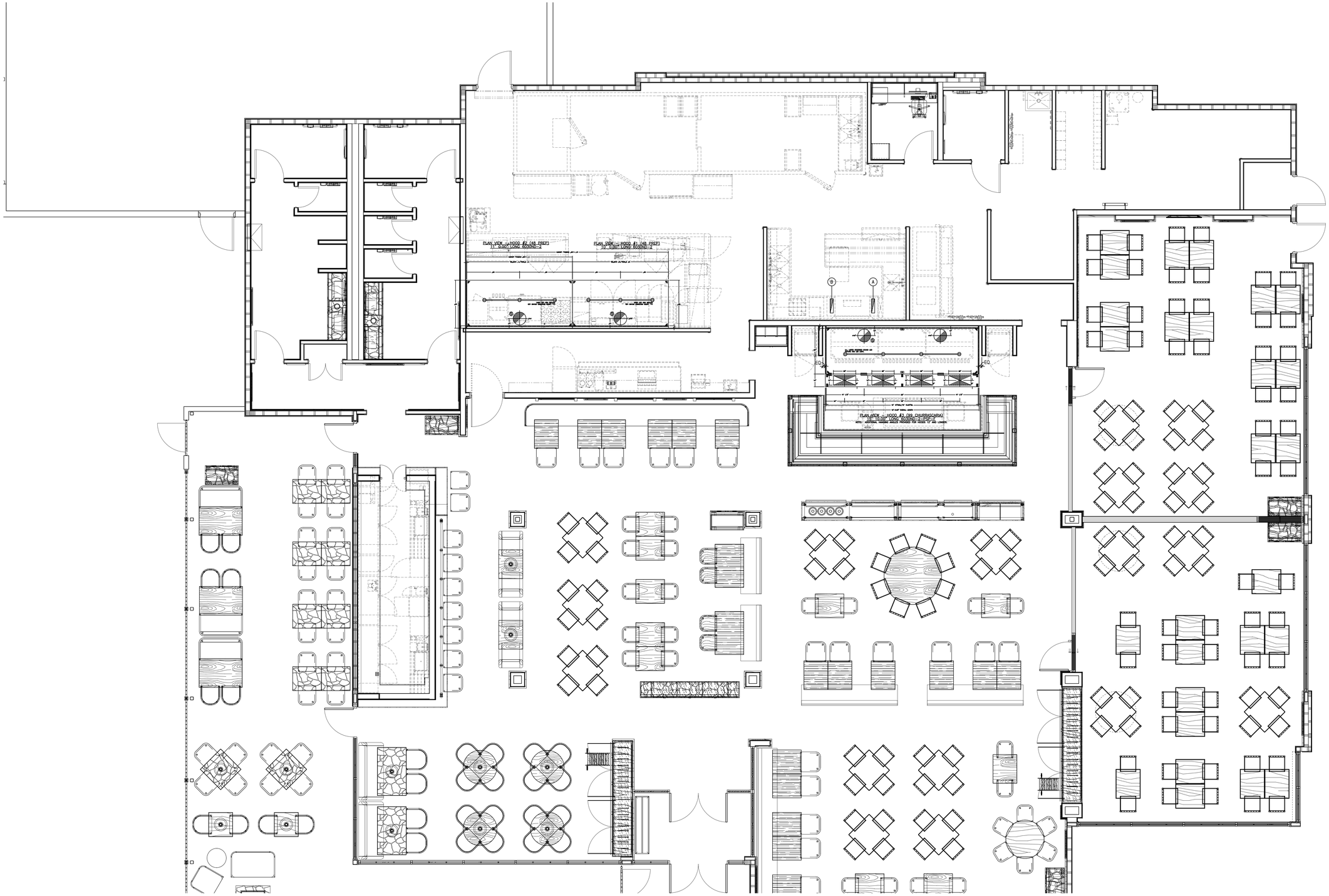
FOGO DE CHÃO® CONVERSION
Project FOGO DE CHAO - WEST WINDSOR, NJ
600 Lofts Drive West Windsor, NJ

Issue For: PERMIT
Issue Date: 07/01/2025
Revisions:

NO.	REASON	DATE
2	PERMIT SET	9/17/25

Principal in Charge: TUCKER MATTHEWS
Project Manager: TUCKER MATTHEWS
Drawn By: KYLE KAESER
Project: NR-25757
Sheet: MECHANICAL DETAILS
Sheet: M4.2

Bid Set Rec'd 10/8/2025



FOODSERVICE VENTILATION REQUIREMENTS PLAN

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

VENTILATION SYMBOLS/ABBREVIATIONS			
	EXHAUST DUCT CONNECTION	SP	STATIC PRESSURE
	RETURN AIR SUPPLY DUCT CONNECTION	WG	INCHES OF WATER GAUGE
	GRAVITY VENT CONNECTION	CFM	CUBIC FEET OF AIR PER MINUTE
		FPM	FEET PER MINUTE (VELOCITY)
NOTES		KES	KITCHEN EQUIPMENT SUPPLIER
A	DUCTWORK ABOVE CEILING AT DISHWASHER DUCTS SHALL BE WATER TIGHT AND GENTLY SLOPE BACK TO CONNECTION POINTS TO ALLOW CONDENSATION TO RETURN DOWN DUCT.		
B	EXHAUST FANS, DUCTWORK ABOVE CEILING AND MAKE-UP AIR SYSTEM TO BE FURNISHED AND INSTALLED BY THE H.V.A.C. CONTRACTOR UNLESS NOTED OTHERWISE.		

HOOD INFORMATION – JOB#7545348

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	48 PREP	6030 ND-2	CAPTIVEAIRE	10' 0"	600 DEG	I	HEAVY	200	2000			4"	16"	2000	1432	-0.582"	0	430 SS WHERE EXPOSED	LEFT	ALONE
2	48 PREP	6030 ND-2	CAPTIVEAIRE	11' 0"	600 DEG	I	HEAVY	200	2200			4"	16"	2200	1576	-0.689"	0	430 SS WHERE EXPOSED	RIGHT	ALONE
3	99 CHURRASCARIA	6030 ND-2-PSP-F	CAPTIVEAIRE	15' 10"	600 DEG	I	HEAVY	316	5000			4"	16"	2500	1790	-1.148"	3450	430 SS WHERE EXPOSED	ALONE	ALONE
												4"	16"	2500	1790	-1.148"				

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
3	99 CHURRASCARIA	Front	192"	16"	6"	MUA	12"	28"		862	0.274"
						MUA	12"	28"		862	0.274"
						MUA	12"	28"		862	0.274"
						MUA	12"	28"		862	0.274"

(A) 4" X 16" EXHASUT DUCT MOVING 200 CFM FROM ENTRANCE END OF DISHMACHINE

(B) 4" X 16" EXHASUT DUCT MOVING 400 CFM FROM EXIT END OF DISHMACHINE

TEXAS METAL EQUIPMENT COMPANY

STAINLESS STEEL FABRICATORS
FOODSERVICE EQUIPMENT
AND DESIGN

DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446-7200
Fax - (214) 446-7209

DRAWING ISSUE

PROJECT:

WEST WINDSOR, NEW JERSEY

FOGO DE CHÃO CHURRASCARIA BRAZILIAN STEAKHOUSE

DATE: 7-01-25

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

DRAWN BY: SN

SHEET TITLE: FOODSERVICE VENTILATION REQUIREMENTS PLAN

SHEET NUMBER: FS4

Bid Set Rec'd 10/8/2025

FOR QUESTIONS, CALL THE
Dallas Office
REGION 45
PHONE: (214) 220 – 3999
EMAIL: reg45@captiveaire.com

PATENT NUMBERS

AC–PSP (UNITED STATES) – US PATENT 7963830 B2.
AC–PSP WALL (CANADA) – CA PATENT 2820509.
AC–PSP ISLAND (CANADA) – CA PATENT 2520330.
EXHAUST HOODS ND–2/BD–2/SND–2 (CANADA) – CA PATENT 2520435 C.

HOOD INFORMATION – JOB#7545348

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	HOOD CONFIG ROW
1	48 PREP	6030 ND–2	CAPTIVEAIRE	10' 0"	600 DEG	I	HEAVY	200	2000			4"	16"	2000	1432	–0.582"	0	430 SS WHERE EXPOSED	LEFT	ALONE
2	48 PREP	6030 ND–2	CAPTIVEAIRE	11' 0"	600 DEG	I	HEAVY	200	2200			4"	16"	2200	1576	–0.689"	0	430 SS WHERE EXPOSED	RIGHT	ALONE
3	99 CHURRASCARIA	6030 ND–2–PSP–F	CAPTIVEAIRE	15' 10"	600 DEG	I	HEAVY	316	5000			4"	16"	2500	1790	–1.148"	3450	430 SS WHERE EXPOSED	ALONE	ALONE
												4"	16"	2500	1790	–1.148"				

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	48 PREP	CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO							YES	616 LBS
2	48 PREP	CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO							YES	668 LBS
3	99 CHURRASCARIA	CAPTRATE SOLO FILTER	12	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO							YES	1121 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	48 PREP	BACKSPLASH 108.00" HIGH X 306.00" LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 108.00" HIGH X 60.00" LONG 430 SS VERTICAL.
		BACKSPLASH – INSIDE CORNER 108.00" HIGH X 2.00" LEG LENGTH 430 SS VERTICAL.
		INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
2	48 PREP	RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
3	99 CHURRASCARIA	BACKSPLASH 108.00" HIGH X 192.00" LONG 430 SS VERTICAL.
		LEFT SIDESPLASH 108.00" HIGH X 60.00" LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 108.00" HIGH X 60.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.
		INSULATION FOR BACK OF HOOD.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
3	99 CHURRASCARIA	Front	192"	16"	6"	MUA	12"	28"		862	0.274"
						MUA	12"	28"		862	0.274"
						MUA	12"	28"		862	0.274"
						MUA	12"	28"		862	0.274"

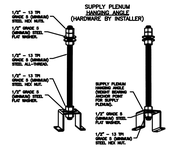
WALL–MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	WEIGHT
1	WALL MNT	12"x54"x24"	TANK FS	4.0/4.0/4.0	DCV–2111	1 LIGHT 1 FAN	440.00 LBS
3	WALL MNT	12"x72"x24"	TANK FS	4.0/4.0/4.0/4.0	DCV–2111	1 LIGHT 1 FAN	540.00 LBS

CLEARANCE TO COMBUSTIBLES

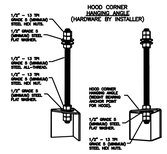
HOODS #	SURFACE	*CLEARANCE
1	TOP	0"
	FRONT	0"
	BACK	0"
	LEFT	18"
	RIGHT	18"
2	TOP	0"
	FRONT	0"
	BACK	0"
	LEFT	18"
	RIGHT	0"
3	TOP	0"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	0"

– *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.



ASSEMBLY INSTRUCTIONS

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 HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT–LBS.



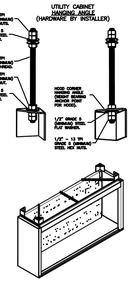
ASSEMBLY INSTRUCTIONS

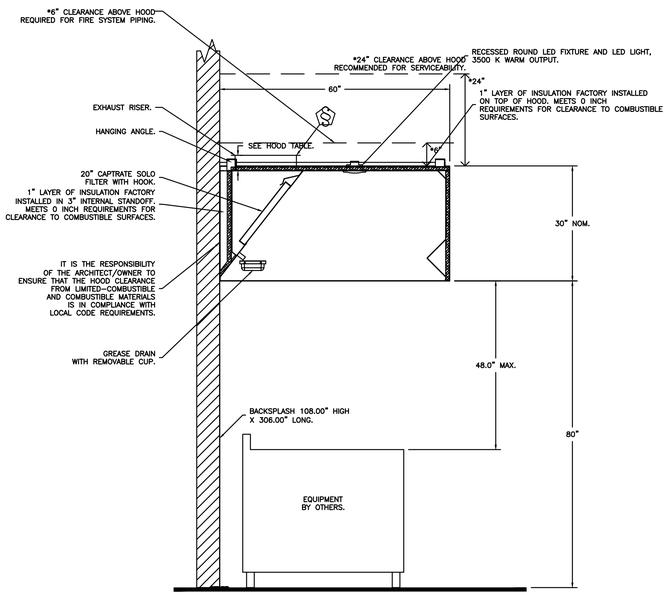
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL–THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND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

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.





SECTION VIEW – MODEL 6030ND–2
HOOD – #1 (48 PREP)

REVISIONS

DESCRIPTION	DATE:
△	
△	
△	
△	

CAPTIVE-AIRE
1901 Royal Lane Suite 101, DALLAS, TX. 75229 PHONE: (214) 220 - 3999 FAX: 2142200099 EMAIL: reg45@captiveaire.com
www.captiveaire.com
Dallas Office

Fogo de Chao West Windsor NJ

DATE: 6/13/2025
DWG.#: 7545348
DRAWN BY: DJL–45
SCALE: 3/4" = 1'–0"
MASTER DRAWING
SHEET NO. 1

TEXAS METAL EQUIPMENT COMPANY
STAINLESS STEEL FABRICATORS FOODSERVICE EQUIPMENT AND DESIGN
DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446-7200
Fax - (214) 446-7209

DRAWING ISSUE

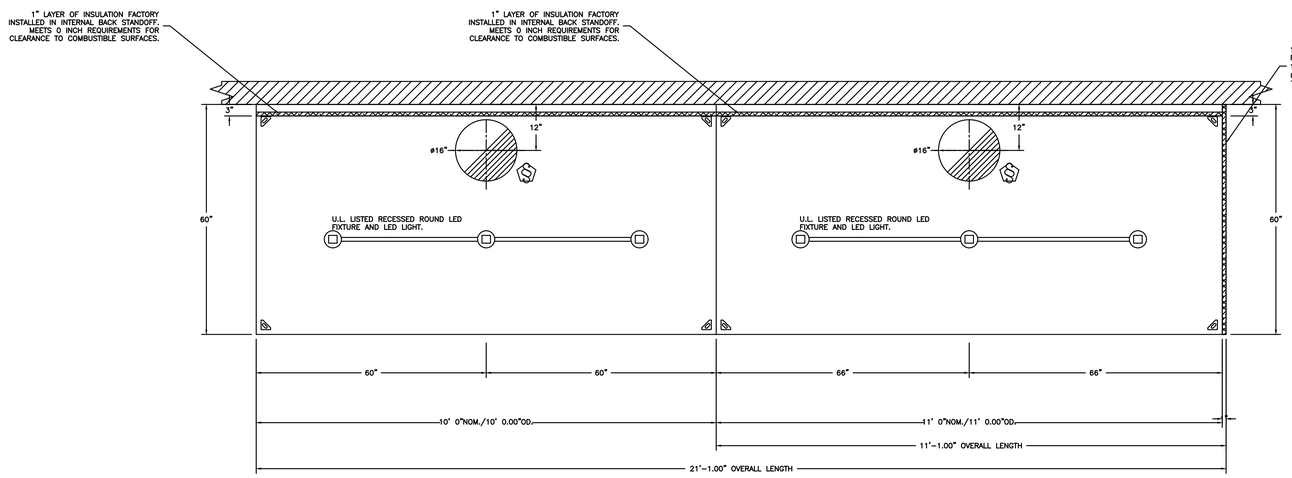
PROJECT:
FOGO DE CHÃO CHURRASCARIA BRAZILIAN STEAKHOUSE
WEST WINDSOR, NEW JERSEY

DATE: 7-01-25
SCALE: AS NOTED
DRAWN BY: SN

SHEET TITLE: EXHAUST HOOD DRAWINGS

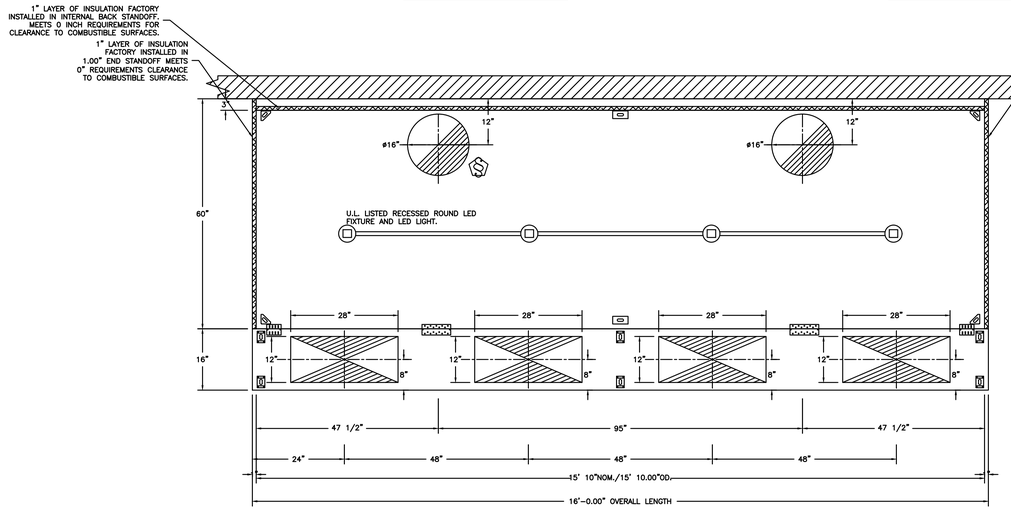
SHEET NUMBER: FS9

Bid Set Rec'd 10/8/2025



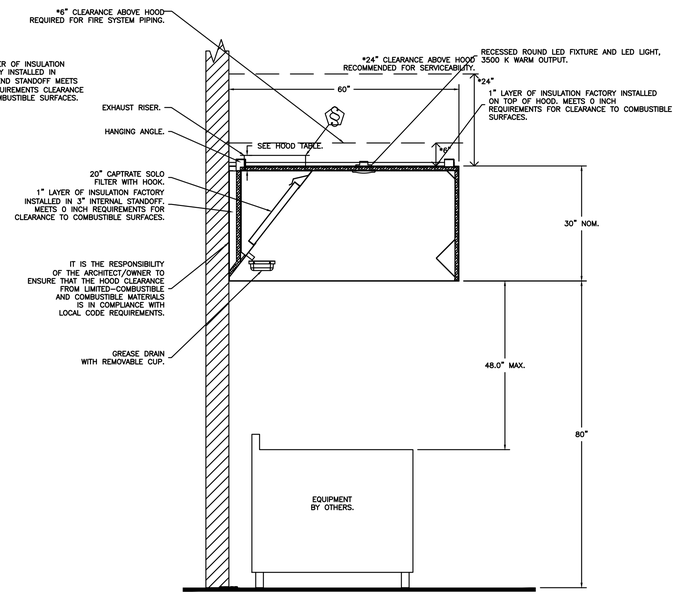
PLAN VIEW – HOOD #1 (48 PREP)
10' 0.00" LONG 6030ND-2

PLAN VIEW – HOOD #2 (48 PREP)
11' 0.00" LONG 6030ND-2



PLAN VIEW – HOOD #3 (99 CHURRASCARIA)
15' 10.00" LONG 6030ND-2-PSP-F

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.



SECTION VIEW – MODEL 6030ND-2
HOOD – #2 (48 PREP)

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

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www.captiveaire.com

Fogo de Chao West Windsor NJ

DATE: 6/13/2025

DWG.#: 7545348

DRAWN BY: DJL-45

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 2

TEXAS METAL EQUIPMENT COMPANY
STAINLESS STEEL FABRICATORS
FOODSERVICE EQUIPMENT AND DESIGN
DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446-7200
Fax - (214) 446-7209

DRAWING ISSUE

WEST WINDSOR, NEW JERSEY

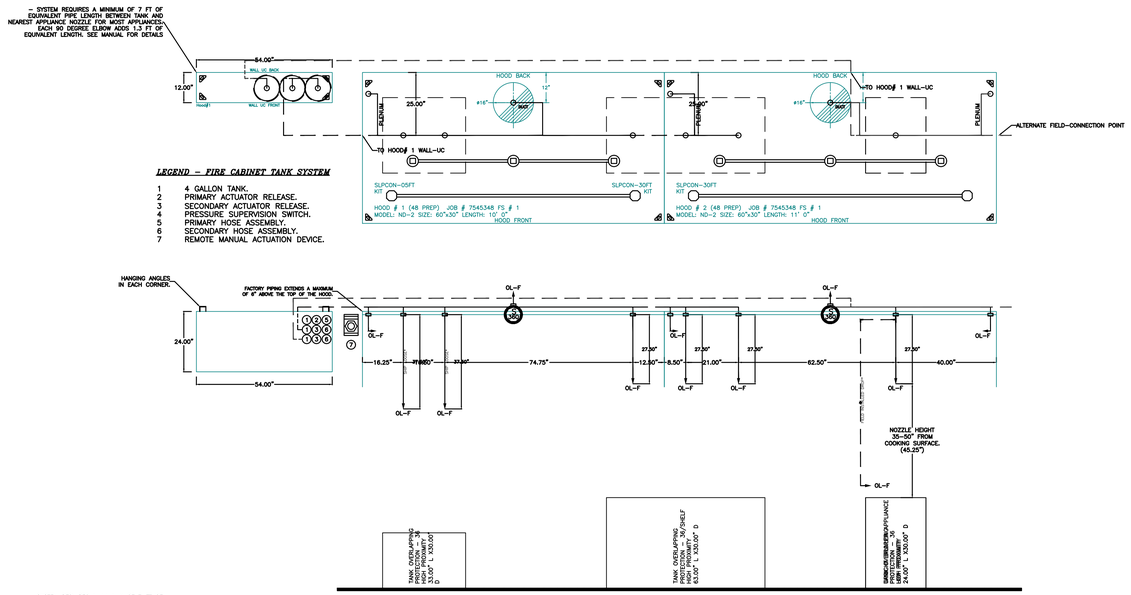
PROJECT:
FOGO DE CHÃO
CHURRASCARIA
BRAZILIAN STEAKHOUSE

DATE: 7-01-25
SCALE: AS NOTED
DRAWN BY: SN

SHEET TITLE:
EXHAUST HOOD DRAWINGS

SHEET NUMBER:
FS9.1

Bid Set Rec d
10/8/2025



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 #: 7545348.
JOB NAME: FOGO DE CHAO PRINCETON NJ.

SYSTEM SIZE: TANK–SP–3–WC DESIGN FP: 51. MAXIMUM FP: 60.
HOOD # 1 10' 0.00" LONG x 60" WIDE x 30" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 1 METAL BLOW–OFF CAPS INCLUDED.
HOOD # 2 11' 0.00" LONG x 60" WIDE x 30" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 2 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.

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

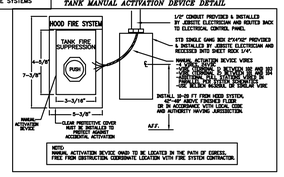
FIRE SYSTEM INFORMATION – JOB#7545348

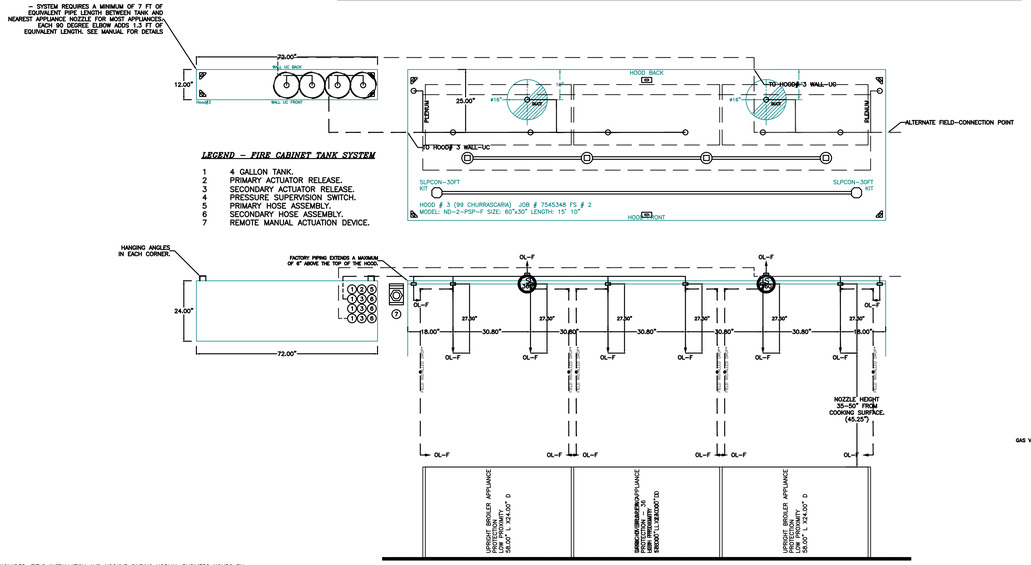
FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0	60	51	WALL UTILITY CABINET LEFT	N/A
2		TANK FS	4.0/4.0/4.0/4.0	80	64	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS
2		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

TANK MANUAL ACTIVATION DEVICE DETAIL





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 #: 7545348.
JOB NAME: FOGO DE CHAO PRINCETON NJ.

SYSTEM SIZE: TANK–SP–4–WC DESIGN FP: 64. MAXIMUM FP: 80.
HOOD # 3 15' 10.00" LONG x 60" WIDE x 30" HIGH.
RISER # 1 SIZE: 16" DIA.
RISER # 2 SIZE: 16" DIA.
HOOD # 3 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.

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

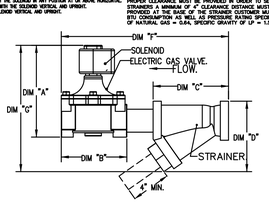
GAS VALVES AND STRAINERS

	GAS VALVE SIZING					GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FSgt;=60	ELECTRIC	2"	120 VAC	5 PSI (9 IN.W.C.)	2 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,906,048 BTU/HR	7–5/8"	9–3/8"	7–1/4"	7–13–16"	13–5/8"	HORIZONTAL/VERTICAL	821–0280	4417M08	(3)CBGV2H2

ELECTRIC GAS VALVES ONLY SOLENOID ORIENTATION
1/4"–2" ELECTRIC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL.
2 1/2"–3" ELECTRIC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
3HDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINER! A MINIMUM OF 7" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY THEIR GAS PRESSURE AND SPECIFIC GRAVITY RATING! SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



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 EQUIPMENT LAYOUT CHANGES.

REVISIONS

	DESCRIPTION	DATE:
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CAPTIVEAIRE
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WWW.CAPTIVEAIRE.COM

Fogo de Chao West Windsor NJ

DATE: 6/13/2025

DWG.#: 7545348

DRAWN BY: DJL–45

SCALE: 1/2" = 1'–0"

MASTER DRAWING

SHEET NO. 3

TEXAS METAL EQUIPMENT COMPANY
STAINLESS STEEL FABRICATORS
FOODSERVICE EQUIPMENT AND DESIGN
DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446–7200
Fax - (214) 446–7209

DRAWING ISSUE

PROJECT:
WEST WINDSOR, NEW JERSEY
FOGO DE CHÃO CHURRASCARIA BRAZILIAN STEAKHOUSE

DATE: 7–01–25
SCALE: AS NOTED
DRAWN BY: SN

SHEET TITLE: EXHAUST HOOD DRAWINGS

SHEET NUMBER: FS9.2

Bid Set Rec'd 10/8/2025

ROOF/RTU FAN SCHEDULE – JOB#2545348

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	AIR INFORMATION BLOWER	RETURN AIR CFM	OSA CFM	TOTAL AIR CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	ELECTRICAL INFORMATION MCA	MOCP	COOLING INFORMATION OUTSIDE AIR DB	WB	LEAVING AIR DB	WB	CAPACITY TOTAL	SENS.	IEER	SMPS	DISCHARGE DB	WB	RETURN AIR DESIGN	MAX	MOISTURE REMOVAL	GAS TYPE	GAS INPUT BTUH	GAS OUTPUT BTUH	TEMP RISE
1	DOAS-1	1	DX-HH63-1-500-34-3ST-3OAI	CAPTIVEAIRE	[HAP-3-RTU]	0	4450	4450	3350	0.585	5.00	3	208	143.2A	150A	91.0°F	77.1°F	54.4°F	53.1°F	342 MBH	342 MBH	14.5	5.5	75.0°F	55.1°F	80.0	5600CFM	189.3 LBS/HR	NATURAL	440000	369000	19°F

NOTES:
1. MASTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. 2" MERV 13 FILTERS FOR RTU (QTY. 4)
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER OF EQUIPMENT FOR RTU, THIN TRANSFORMER USED. IF A NON-OEM APPROVED CONTROLS THIS UNIT, THE JOB WILL BE "NAC" OR "ICP" PROMINE OPTION MUST BE SELECTED TO BE INCLUDED. SUPPLY STATION IN KITCHEN.
4. EC MOTOR CONDENSING COIL
5. EC MOTOR CONDENSING FANS
6. FACTORY CHARGED WITH R-410A REFRIGERANT. TXV NOT ACCEPTABLE
7. FACTORY LOAD ACCUMULATING
8. 10 YEAR PARTS WARRANTY ON STAINLESS STEEL HEAT EXCHANGER WITH 5 YEAR PARTS WARRANTY, 2ND YEAR PARTS WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. 10 YEAR PARTS WARRANTY ON COMPRESSOR WITH 5 YEAR PARTS WARRANTY, 2ND YEAR PARTS WARRANTY ON COMPRESSOR (SHALL BE MOUNTED WITHIN UNIT)
10. 5 YEAR PARTS WARRANTY ON ROOF CURB CONSTRUCTION. 5/4 X 3 INSULATION-BRIDGING LOSS. EXTERIOR 16 GAUGE GALVANIZED STEEL WITH INTERIOR 20 GAUGE GALVANIZED STEEL. CURB SHALL BE FACTORY INSTALLED
11. 5 YEAR PARTS WARRANTY ON ROOF CURB CONSTRUCTION. 5/4 X 3 INSULATION-BRIDGING LOSS. EXTERIOR 16 GAUGE GALVANIZED STEEL WITH INTERIOR 20 GAUGE GALVANIZED STEEL. CURB SHALL BE FACTORY INSTALLED
12. SUPPLY CFM MONITORING WITH DWYER MAGNEHELIC DIFFERENTIAL PRESSURE GAUGE MOUNTED IN UNIT
13. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
14. 10 GAUGE LOW AMBIENT OPERATION
15. 10 GAUGE LOW AMBIENT OPERATION
16. DOWN DISCHARGE/VAV RETURN
17. FACTORY INSTALLED CONVENIENCE OUTLET
18. 1 YEAR PARTS WARRANTY ON ROOF CURB CONSTRUCTION

CURB ASSEMBLIES

FAN UNIT NO	TAG OR FAN	WEIGHT	ITEM	SIZE
1	EF-1 PREP	43 LBS	CURB	28.500"W X 28.500"L X 20.000"H VENTED HINGED.
2	EF-2 PREP	43 LBS	CURB	28.500"W X 28.500"L X 20.000"H VENTED HINGED.
3	EF-3,1 GRILL	30 LBS	CURB	28.500"W X 28.500"L X 24.000"H VENTED.
4	EF-3,2 GRILL	30 LBS	CURB	28.500"W X 28.500"L X 24.000"H VENTED.
5	EF-4 GRILL	34 LBS	CURB	15.500"W X 15.500"L X 22.000"H VENTED HINGED.
6	EF-5 TOILET	16 LBS	CURB	11.000"W X 17.000"L X 14.000"H.
7	EF-6 EMPLOYEE	16 LBS	CURB	11.000"W X 17.000"L X 14.000"H.
8	DOAS-1 GRILL	173 LBS	CURB	59.500"W X 91.000"L X 14.000"H INSULATED 16 GAUGE

EXHAUST FAN INFORMATION – JOB#2545348

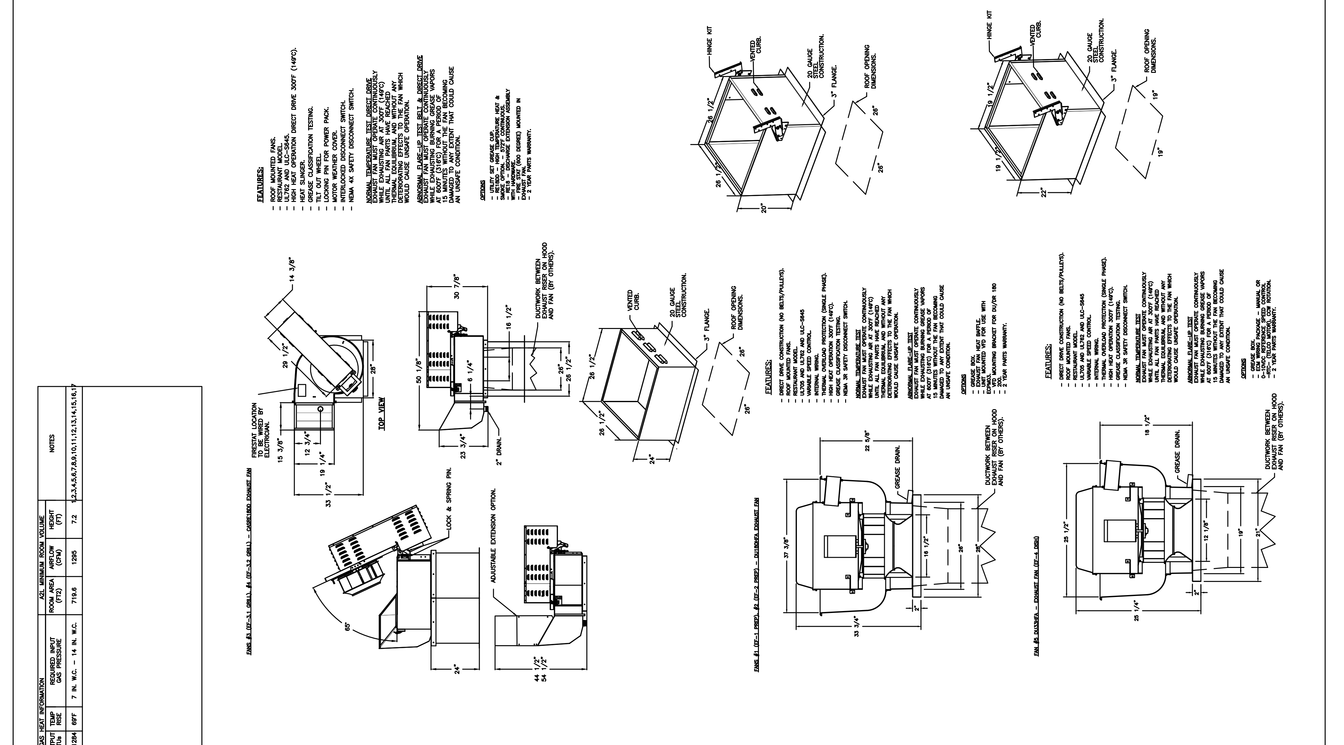
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR HP	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1 PREP	1	DU180HFA	CAPTIVEAIRE	2200	1.000	1033	2.00 PREMIUM	2.000	0.7626	3	208	6.1	658 FPM	172	10.6
2	EF-2 PREP	1	DU180HFA	CAPTIVEAIRE	2000	1.250	1097	2.00 PREMIUM	2.000	0.8756	3	208	6.1	482 FPM	172	12.1
3	EF-3,1 GRILL	1	CGXRE180D	CAPTIVEAIRE	2500	1.150	1493	3.00 PREMIUM	3.000	1.7990	3	208	8.7	1450 FPM	321	23.3
4	EF-3,2 GRILL	1	CGXRE180D	CAPTIVEAIRE	2500	1.150	1493	3.00 PREMIUM	3.000	1.7990	3	208	8.7	1450 FPM	321	23.3
5	EF-4 GRILL	1	DU336HFA	CAPTIVEAIRE	600	0.500	1342	TEAO-ECM	0.333	0.1156	1	115	4.3	297 FPM	71	10.7
6	EF-5 TOILET	1	DR126HFA	CAPTIVEAIRE	350	0.500	1328	TEAO-ECM	0.250	0.1045	1	115	2.9		50	6.8
7	EF-6 EMPLOYEE	1	DR126HFA	CAPTIVEAIRE	125	0.500	1453	TEAO-ECM	0.166	0.0586	1	115	1.9		49	5

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1 PREP	1	GREASE BOX
		1	EXHAUST FAN HEAT BAFFLE
		1	UNIT MOUNTED VFD FOR USE WITH EDHAO
		1	RE18 – DISCHARGE EXTENSION ASSEMBLY WITH HARDWARE FOR DU/DR 180 – 200
		1	2 YEAR PARTS WARRANTY
2	EF-2 PREP	1	GREASE BOX
		1	EXHAUST FAN HEAT BAFFLE
		1	UNIT MOUNTED VFD FOR USE WITH EDHAO
		1	VFD MOUNTING BRACKET FOR DU/DR 180 – 200
		1	2 YEAR PARTS WARRANTY
3	EF-3,1 GRILL	1	UTILITY SET GREASE CUP
		1	RE18 – MOISTURE, HEAT & SMOKE OPTION
		1	RE18 – DISCHARGE EXTENSION ASSEMBLY WITH HARDWARE
		1	FIRE STAT (600 DEGREE) MOUNTED IN EXHAUST FAN
		1	2 YEAR PARTS WARRANTY
4	EF-3,2 GRILL	1	UTILITY SET GREASE CUP
		1	RE18DD – HIGH TEMPERATURE HEAT & SMOKE OPTION
		1	RE18 – DISCHARGE EXTENSION ASSEMBLY WITH HARDWARE
		1	FIRE STAT (600 DEGREE) MOUNTED IN EXHAUST FAN
		1	2 YEAR PARTS WARRANTY
5	EF-4 GRILL	1	GREASE BOX
		1	EDA WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL –RTC– CELLO MOUNT, CSA ROOFTOP
		1	2 YEAR PARTS WARRANTY
6	EF-5 TOILET	1	EDA WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL –RTC– CELLO MOUNT, CSA ROOFTOP
		1	12-250 DAMPER
		1	2 YEAR PARTS WARRANTY
7	EF-6 EMPLOYEE	1	EDA WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL –RTC– CELLO MOUNT, CSA ROOFTOP
		1	12-250 DAMPER
		1	2 YEAR PARTS WARRANTY
8	DOAS-1 GRILL	[QTY]	[DESCRIPTION]

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
		1	INLET PRESSURE GAUGE, 0–35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 11.0" WC, 1 FURNACE
		1	COOLING OVERRIDE
		1	RTU-ICP – FACTORY CELLULAR CONNECTION FOR RTU, THIN TRANSFORMER USED. IF A NON-OEM APPROVED CONTROLS THIS UNIT, THE JOB WILL BE "NAC" OR "ICP" PROMINE OPTION MUST BE SELECTED TO BE INCLUDED. SUPPLY STATION IN KITCHEN.
		1	RTU BLOWER DOOR SWITCH
		1	RTU-D DOWN DISCHARGE, 400L 500 MBH
		1	2" MERV 13 FILTERS FOR RTU-D (QTY. 4)
		1	4" MERV 13 FILTERS FOR RTU-D (QTY. 4)
		1	OVERHEAT STAT
		1	TOTAL CFM MONITORING
		1	KEY FACTORY ADJUSTED AND WIRED IN RTU COMMISSION CONTROL KEYPAD
		1	3/4 HORSE COMPRESSOR, ECM CONDENSING FANS & CABINET, R454B REFRIGERANT
		1	VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	R454B LEAK DETECTOR OPTION FOR RTU-D
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	OCCUPIED SCHEDULING
		1	ADJUSTABLE FREEZE SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FREEZSTAT SET TO 240°F
		1	SOLIDIUS MONITORING SYSTEM – STRICTLY ON CELLULAR CONNECTION REQUIRED
		1	SOLIDIUS ADVANCED MONITORING SYSTEM FOR SITE'S CHANNEL – SPACE COMPONENT CONTROL – R454B
		1	2" MERV 8 PRE-FILTER
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK – ALARM SUPPLIED BY OTHERS
		1	RTU-D CURB DUCT HANGER
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	RTU-D TWO STAGE HEAT, 150 MBH
		1	2" METAL MESH FILTERS FOR RTU-D OUTDOOR INTAKE
		1	RTU-D HAIL GUARD
		1	RTU-D ROOFPACK – HOPSCOTCH 5M MAX
		1	RTU-D CONVENIENCE OUTLET (GFCI), 15 AMP. – REQUIRES SEPARATE 120V CONNECTION.
		1	INCLUDED RECEPTACLE COVER AND J-BOX
		1	5 YEAR PARTS WARRANTY ON ROOF CURB CONSTRUCTION (QTY 1 WITH INCLUDED)
		1	5 YEAR EXPIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CERTIFIED START (CONTRACT), 25 YEAR STAINLESS STEEL TURNAROUND HEAT EXCHANGER WARRANTY
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET



CAPTIVEAIRE
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REVISIONS

DESCRIPTION	DATE

Fogo de Chao West Windsor NJ

DATE: 6/13/2025
DWG.#: 7545348
DRAWN BY: DJL–45
SCALE: 1/2" = 1'–0"
MASTER DRAWING
SHEET NO. 4

TEXAS METAL EQUIPMENT COMPANY

STAINLESS STEEL FABRICATORS
FOODSERVICE EQUIPMENT
AND DESIGN

DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446-7200
Fax - (214) 446-7209

DRAWING ISSUE

PROJECT:
FOGO DE CHAO
CHURRASCARIA
BRAZILIAN STEAKHOUSE
WEST WINDSOR, NEW JERSEY

DATE: 7–01–25
SCALE: AS NOTED
DRAWN BY: SN

SHEET TITLE:
EXHAUST HOOD DRAWINGS

SHEET NUMBER:
FS9.3

10/8/2025

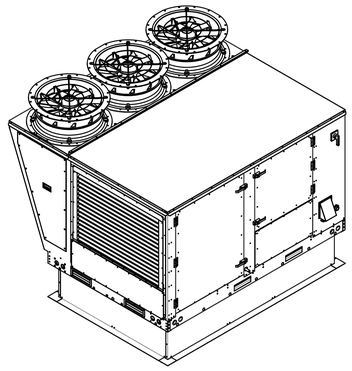
FAN #8 CAS-HVAC3-I.500-24MF-30T-DOAS - HEATER (DOAS-1 GRILL)

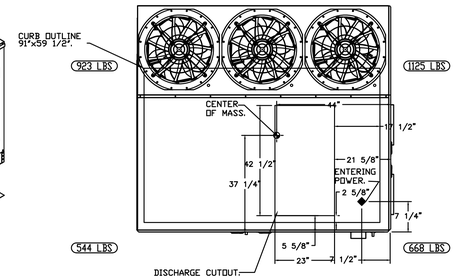
NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

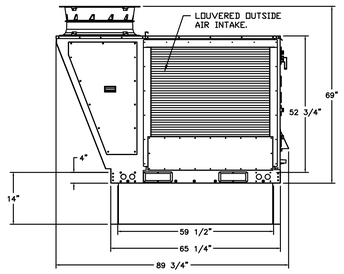
*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

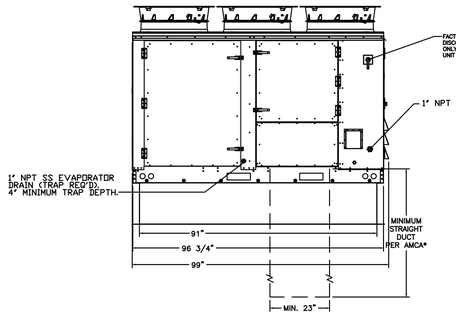
***NOTE: THIS UNIT IS INTENDED TO SERVE IN PLACE OF THE KITCHEN HVAC ROOF TOP UNIT (RTU) IN ADDITION TO PROVIDING APPROPRIATE MAKE-UP AIR FOR THE KITCHEN HOOD(S). RTU AND ASSOCIATED DUCTWORK SHALL BE REMOVED FROM SCOPE UNLESS REQUIRED FOR INTERNAL LOAD ESTIMATES. FINAL DESIGN SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.**

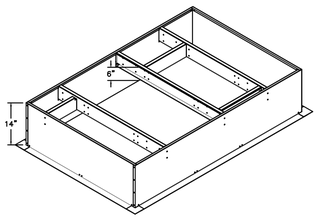
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE 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 23" x 39".

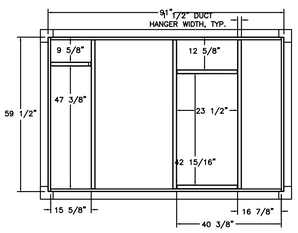


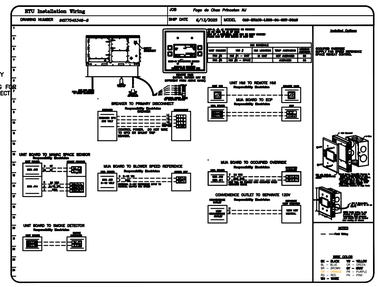


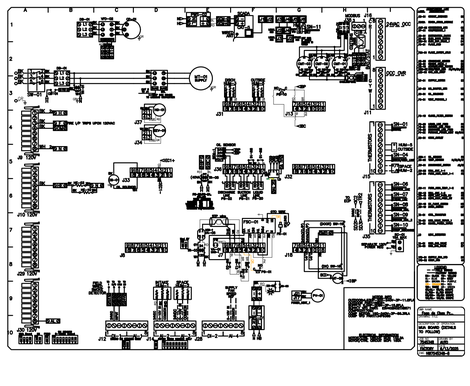


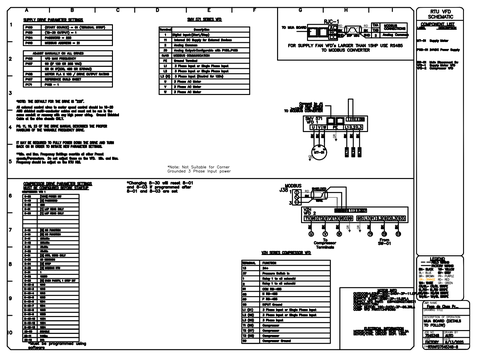












REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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Fogo de Chao West Windsor NJ

DATE: 6/13/2025

DWG.#: 7545348

DRAWN BY: DJL-45

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

MASTER DRAWING

SHEET NO. 5

TEXAS METAL EQUIPMENT COMPANY

STAINLESS STEEL FABRICATORS
FOODSERVICE EQUIPMENT
AND DESIGN

DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446-7200
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DRAWING ISSUE

PROJECT:

WEST WINDSOR,
NEW JERSEY

FOGO DE CHÃO
CHURRASCARIA
BRAZILIAN STEAKHOUSE

DATE: 7-01-25

SCALE: AS NOTED

DRAWN BY: SN

SHEET TITLE: EXHAUST HOOD DRAWINGS

SHEET NUMBER: FS9.4

BID SET REC'd 10/8/2025

TEXAS METAL EQUIPMENT COMPANY
STAINLESS STEEL FABRICATORS
FOODSERVICE EQUIPMENT
AND DESIGN
DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446-7200
Fax - (214) 446-7209

DRAWING ISSUE

PROJECT:
FOGO DE CHÃO
CHURRASCARIA
BRAZILIAN STEAKHOUSE
WEST WINDSOR,
NEW JERSEY

DATE: 7-01-25
SCALE: AS NOTED
DRAWN BY: SN

SHEET TITLE:
EXHAUST
HOOD DRAWINGS

SHEET NUMBER:
FS9.5

10/8/2025 2:30:17 PM

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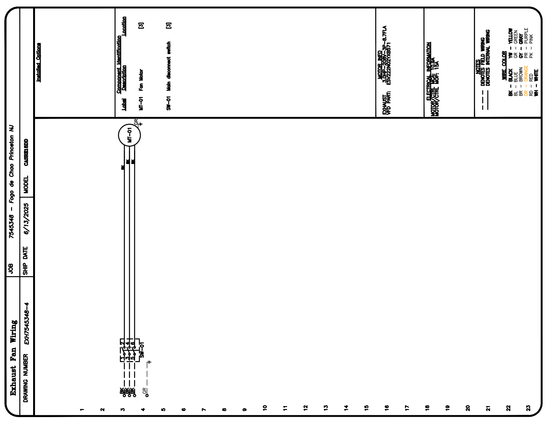
REVISIONS

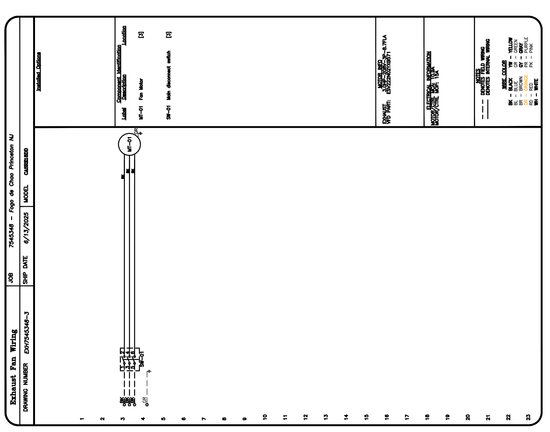
DESCRIPTION	DATE

Fogo de Chao West Windsor NJ

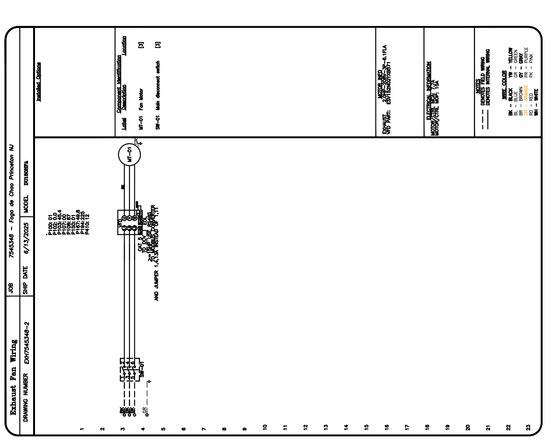
DATE: 6/13/2025
DWG.#: 7545348
DRAWN BY: DJL-45
SCALE: 3/4" = 1'-0"
MASTER DRAWING

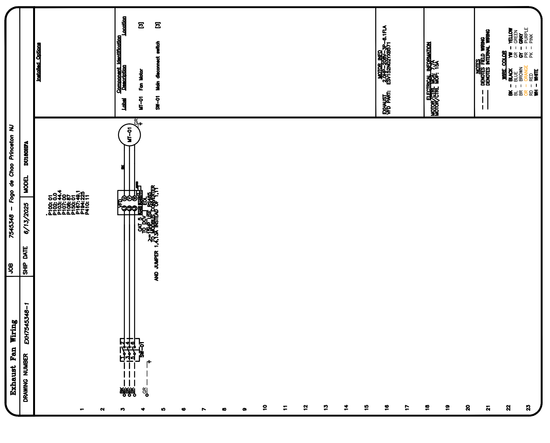
SHEET NO. 6





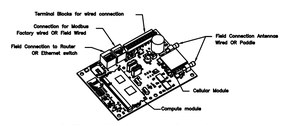






ELECTRICAL PACKAGE – JOB#7545348

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		DCV–2111	WALL UTILITY CABINET LEFT	FACE MOUNT LEFT SIDE OF HOOD	1 LIGHT	SMART CONTROLS DCV	EF–1 PREP	EXHAUST	3	2.000	208	6.1
				HOOD # 1	1 FAN		EF–2 PREP	EXHAUST	3	2.000	208	6.1
2		DCV–2111	WALL UTILITY CABINET RIGHT	SHIP LOOSE W/ PREWIRE	1 LIGHT	SMART CONTROLS DCV	EF–3.1 GRILL	EXHAUST	3	3.000	208	8.7
					1 FAN		EF–3.2 GRILL	EXHAUST	3	3.000	208	8.7
							DOAS–1 GRILL	SUPPLY	3	5.000	208	15.8



CASlink Monitor and Control

- *Hood control panel to support communications to cloud–based Building Management System.*
- *Hood Control Panel to allow cloud–based Building Management System to monitor Control Parameters outlined or MONITOR in the points list.*
- *Hood Control Panel to allow cloud–based Building Management System to control parameters outlined as CONTROL in the points list.*
- *Hood Control Panel to allow cloud–based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.*

MONITORING AND CONTROL POINTS LIST

DCV Package	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentage	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressure	MONITOR
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

DC Package	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
VFD Faults	MONITOR
PCU Filter Clog Percentage	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressure	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

JOB NO 7545348 | MODEL NUMBER DCV–2111 | JOB NAME Fogo de Chao Princeton NJ | DRAWN BY | DATE 6/13/2025 | SCHEMATIC TYPE INSTALL | REV. NO. ECP #1–1

DESCRIPTION OF OPERATION:
General Control Installation, w/ control for 1 Exhaust Fans, 1 Supply Fan, Exhaust up to 3% Fire, Lights and 1x Fire. Fans modulate based on wall temperature, Baseline 60% if Fogo system equipped for CAS with VFD, Wash temperature sensor shipped loose for field installation/by Balance Balance VFD and motor commercial and cloud apply if balance exceeds 60 hrz.

BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

BREAKER PANEL TO FANS
Responsibility: Electrician

CONTROL PANEL TO FANS
Responsibility: Electrician

0–10 VDC SPEED SIGNAL CONTROL

SUPPLY FAN INTERLOCK

VDC ANALOG OUTPUT REFERENCE EXTERNAL REFERENCE SIGNAL

CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician

CONTROL PANEL TO GAS VALVE 120V ONLY

CONTROL PANEL SIGNAL FOR EXTERNAL SHUNT TRIP

CONTROL PANEL SIGNAL FOR EXTERNAL CONTACTOR COIL

CONTROL PANEL DRY CONTACT ON/OFF WITH EXHAUST FAN GROUP 1

VFD ANALOG 0–10V OUTPUT (EACH VFD)

CONTROL PANEL TO EXTERNAL SWITCH

CONTROL PANEL DRY CONTACT ON/OFF WITH EXHAUST FAN GROUP 1

CONTROL PANEL TO GAS VALVE 24V DC ONLY

JOB NO 7545348 | MODEL NUMBER DCV–2111 | JOB NAME Fogo de Chao Princeton NJ | DRAWN BY | DATE 6/13/2025 | SCHEMATIC TYPE INSTALL | REV. NO. ECP #1–2

DESCRIPTION OF OPERATION:
General Control Installation, w/ control for 1 Exhaust Fans, 1 Supply Fan, Exhaust up to 3% Fire, Lights and 1x Fire. Fans modulate based on wall temperature, Baseline 60% if Fogo system equipped for CAS with VFD, Wash temperature sensor shipped loose for field installation/by Balance Balance VFD and motor commercial and cloud apply if balance exceeds 60 hrz.

CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER

INTERLOCK NETWORK CONTROL PANEL TO MASTER FS PANEL

JOB NO 7545348 | MODEL NUMBER DCV–2111 | JOB NAME Fogo de Chao Princeton NJ | DRAWN BY | DATE 6/13/2025 | SCHEMATIC TYPE INSTALL | REV. NO. ECP #1–3

DESCRIPTION OF OPERATION:
Fire System JP 1000 FS = 4A/4A/4A

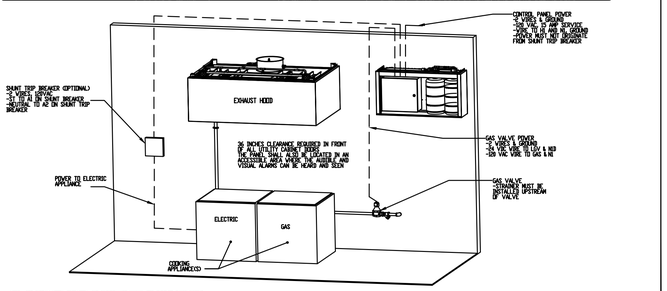
WALL MOUNT UTILITY CABINET TANK PROTECTION ELECTRICAL DETAIL

10/01/2023 Rev. 03

FS–1: MASTER

ELECTRICIAN
1. VERIFY MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. VERIFY REMOTE PANEL PER INCLUDED SCHEMATIC
3. VERIFY DUCT TEMP SENSOR LOCATION
4. VERIFY GAS APPLIANCE KILL SWITCH IF EQUIPPED (OPTIONAL)
5. VERIFY GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL SHUNT TRIP	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	HI & NI + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & NI	KTS & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AUI, AUI2	SOLENOID	120 VAC	< 6 AMPS	120V TO AUI, AUI2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV-1 MV-2F 24 VDC LGV-1 R MV-2F 208 VAC	RED/RED/GREEN	24 VAC OR 208 VAC	< 1.0 AMPS	IF 24 VAC – 2 WIRES GROUND RED TO RED 24V TO RED, AND GREEN TO GROUND IF 208 VAC – 2 WIRES & GROUND ADD TO RED R, TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 7545348 | MODEL NUMBER DCV–2111 | JOB NAME Fogo de Chao Princeton NJ | DRAWN BY | DATE 6/13/2025 | SCHEMATIC TYPE INSTALL | REV. NO. ECP #1–4

DESCRIPTION OF OPERATION:
Fire System JP 1000 FS = 4A/4A/4A

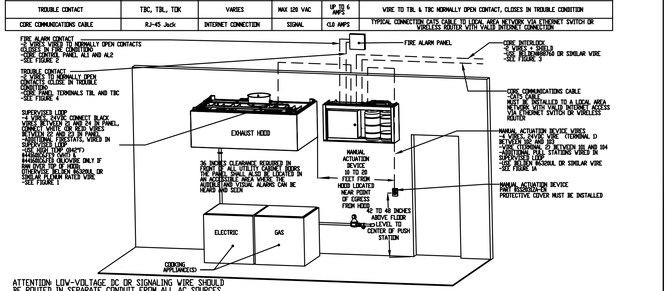
WALL MOUNT UTILITY CABINET TANK PROTECTION LOW–VOLTAGE DETAIL

10/01/2023 Rev. 3

FS–1: MASTER

ALARM CONTRACTOR:
1. VERIFY MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP TO SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	EE AND EE2 EE AND EE	1 & 2	24 VDC	< 1.0 AMPS	VERT MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS EE AND EE2 VERT MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS EE AND EE4 JUMPER EE TO EE AND EE2 TO EE4 ON MANUAL ACTUATION DEVICE TO INSTALL
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED TO PREVENT ACCIDENTAL ACTUATION
REMOTE FIRESTAT SENSOR(S)	S1 AND S4 S2 AND S3	BLACK AND WHITE	24 VDC	< 1.0 AMPS	VERT FIRE SENSOR WHITE WIRE TO VERT SYSTEM FIRE SENSOR TERMINAL OF ANY S1 OR S2 VERT FIRE SENSOR BLACK WIRE TO SYSTEM FIRE SENSOR COMMON TERMINAL 1 AT EM 24 HIGH TEMP FIRE SENSOR WHITE WIRE TO SYSTEM FIRE SENSOR TERMINAL 2 AT EM 24 HIGH TEMP FIRE SENSOR BLACK WIRE TO SYSTEM FIRE SENSOR COMMON TERMINAL 1 AT EM 24 TEMPERATURE RATING OF FIRESTAT SENSOR MUST BE 450 DEGREES FAHRENHEIT OR HIGHER ONLY 2 FIRESTAT SENSORS ALLOWED PER ZONE – SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	30V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR SIGNALING OF FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS–485 COMMUNICATIONS SIGNAL		CORE INTERLOCK CA TO CORE INTERLOCK CA, CB TO CB, CC TO CC OR CORE SYSTEM "A" TO "A", "B" TO "B" AND "C" TO "C" USE BELDEN 9841 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ–45 Jack	INTERNET CONNECTION	SIGNAL	CLO AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW–VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

REVISIONS

	DESCRIPTION	DATE:
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△		
△		
△		

CAPTIVE AIRE
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Dallas Office
1901 Royal Lane Suite 101, DALLAS, TX. 75229 PHONE: (214) 220 - 3999 FAX: 2142200099 EMAIL: resj45@captiveaire.com

Fogo de Chao West Windsor NJ

DATE: 6/13/2025

DWG.#: 7545348

DRAWN BY: DJL–45

SCALE: 3/4" = 1'–0"

MASTER DRAWING

SHEET NO. 7

TEXAS METAL EQUIPMENT COMPANY
STAINLESS STEEL FABRICATORS FOODSERVICE EQUIPMENT AND DESIGN
DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446-7200
Fax - (214) 446-7209

DRAWING ISSUE

PROJECT:
FOGO DE CHAO CHURRASCARIA BRAZILIAN STEAKHOUSE
WEST WINDSOR, NEW JERSEY

DATE: 7–01–25

SCALE: AS NOTED

DRAWN BY: SN

SHEET TITLE: EXHAUST HOOD DRAWINGS

SHEET NUMBER: FS9.6

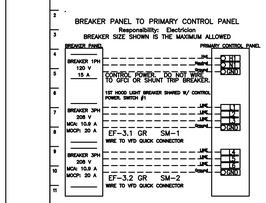
Bid Set Rec'd 10/8/2025

JOB NO.	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
7545348	DCV-2111		INSTALL	Hood & Fans Operation: "A" Light, Hood Light & Exhaust Fans, 1 Supply Fan, Exhaust on in Pre, Lights out in Pre, Fans modulate. Wash: Hood Lights, Exhaust & Supply Fans on full speed. Lights modulate for low speed. Touch screen/light sensor adjusted from the manufacturer's instruction manual. Hood lights will come on with exhaust and will cycle with it between modes as set.
JOB NAME	Fogo de Chao Princeton NJ	6/13/2025	ECP #2-1	

BREAKER PANEL TO PRIMARY CONTROL PANEL

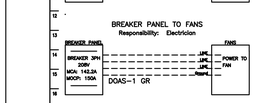
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



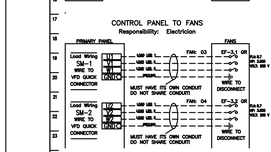
BREAKER PANEL TO FANS

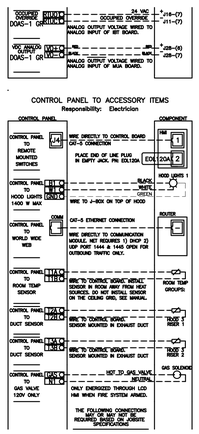
Responsibility: Electrician



CONTROL PANEL TO FANS

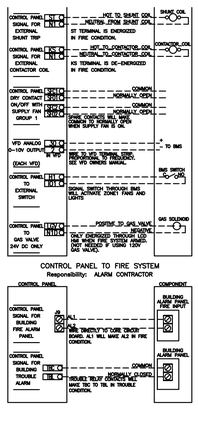
Responsibility: Electrician





CONTROL PANEL TO ACCESSORY ITEMS

Responsibility: Electrician



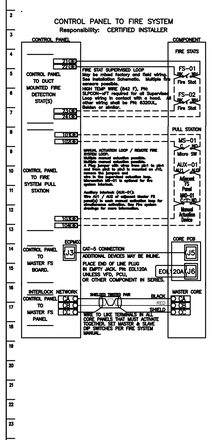
CONTROL PANEL TO FIRE SYSTEM

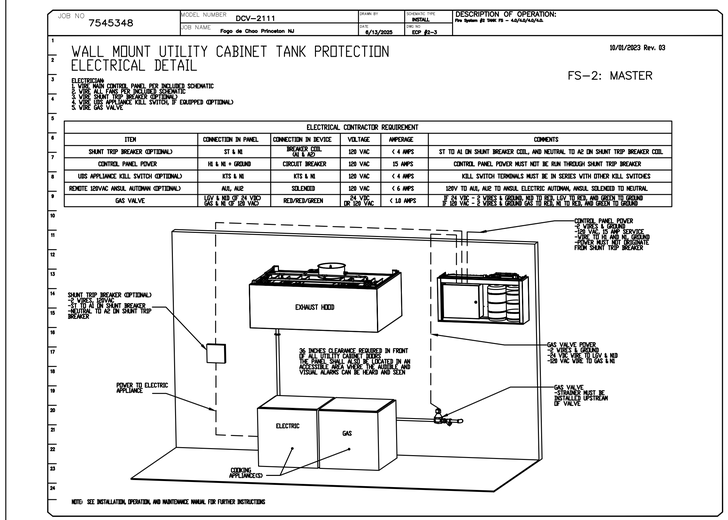
Responsibility: ALARM CONTRACTOR

JOB NO.	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
7545348	DCV-2111		INSTALL	Fire System @ 5kW FS - 40/40/40/40.
JOB NAME	Fogo de Chao Princeton NJ	6/13/2025	ECP #2-3	

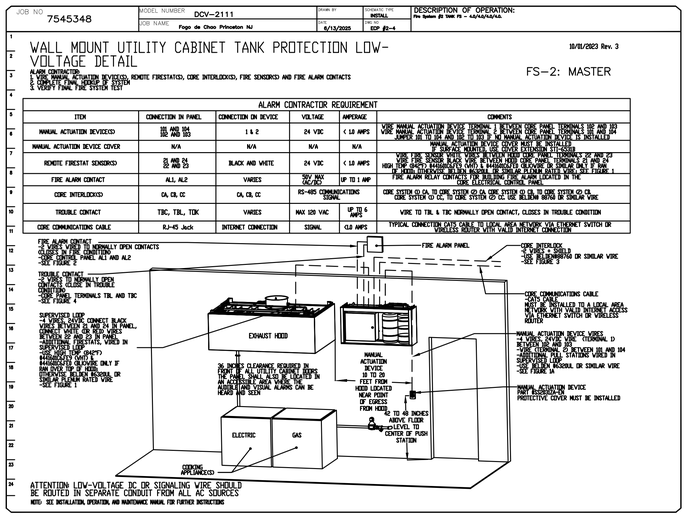
CONTROL PANEL TO FIRE SYSTEM

Responsibility: CERTIFIED INSTALLER





JOB NO.	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
7545348	DCV-2111		INSTALL	Fire System @ 5kW FS - 40/40/40/40.
JOB NAME	Fogo de Chao Princeton NJ	6/13/2025	ECP #2-4	



REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

CAPTIVE AIRE
Dallas Office
1901 Royal Lane Suite 101, DALLAS, TX. 75229 PHONE: (214) 220 - 3999 FAX: 2142200099 EMAIL: reg45@captiveaire.com
www.captiveaire.com

Fogo de Chao West Windsor NJ

DATE: 6/13/2025

DWG.#: 7545348

DRAWN BY: DJL-45

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 8

TEXAS METAL EQUIPMENT COMPANY
STAINLESS STEEL FABRICATORS
FOODSERVICE EQUIPMENT AND DESIGN
DALLAS DIVISION
8704 Royal Lane
Irving, Texas 75063
(214) 446-7200
Fax - (214) 446-7209

DRAWING ISSUE

PROJECT:
FOGO DE CHÃO CHURRASCARIA BRAZILIAN STEAKHOUSE
WEST WINDSOR, NEW JERSEY

DATE: 7-01-25

SCALE: AS NOTED

DRAWN BY: SN

SHEET TITLE: EXHAUST HOOD DRAWINGS

SHEET NUMBER: FS9.7

BIO SER REC d 10/8/2025