PROJECT COORD. NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INSPECTIONS AND APPROVALS REQUIRED DURING THE COURSE OF THE WORK. ALL CONTRACTORS FOR THIS WORK ARE REQUIRED TO HAVE INSURANCE OF THE TYPES AND LIMITS SPECIFIED BY THE LANDLORD AND BRAND PARTNER.
- IF REQUIRED BY LEASE AGREEMENT: THE GENERAL CONTRACTOR SHALL PROVIDE SCHEDULING AND/OR COORDINATION WITH THE LANDLORD'S FIELD REPRESENTATIVE FOR THE FOLLOWING INSTALLATIONS OR PROCEDURES:
- A. INSTALLATIONS OF CONDUIT AND PIPING IN OR BELOW THE FLOOR SLAB. B. CONNECTIONS TO DOMESTIC WATER, SANITARY AND GREASE WASTE, SANITARY VENT,
- AND SMOKE/FIRE ALARM'S C. INSTALLATION OF PRIMARY DUCTWORK, VAV BOX AND CONTROLS.
- D. PROGRAMMING OF THE VAV BOX CONTROL AND SENSORS. E. ANY WORK REQUIRED AT THE LANDLORD'S SWITCHGEAR.
- . HARDWARE AND SOFTWARE MODIFICATIONS TO COMPLETE THE INTERFACE WITH LANDLORD'S BASE BUILDING LIFE SAFETY SYSTEM.
- G. UPON SUBSTANTIAL COMPLETION OF BRAND PARTNER'S WORK IN THE PREMISES. BRAND PARTNER AND HIS CONTRACTOR MUST SCHEDULE WITH THE LANDLORD'S FIELD REPRESENTATIVE TO CONDUCT A FINAL INSPECTION AND PREPARE A PUNCHLIST WHICH ENUMERATES ANY AREAS OF CONSTRUCTIONS, FIXTURING LIGHTING OR LAMPING, MERCHANDISING, ETC., THAT ARE NOT IN ACCORDANCE WITH THE LANDLORD-APPROVED PLANS OR LEASE. THE STOREFRONT BARRICADE MAY NOT BE REMOVED UNTIL THIS INSPECTION AND ANY CORRECTIONS HAVE BEEN
- H. LANDLORD'S CONDITIONS IN THE SHOPPING CENTER TENANT DESIGN GUIDE HANDBOOK SHALL BE PART OF ANY CONTRACT AND/OR AGREEMENT ENTERED INTO BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE ABOVE NOTED LANDLORD CONTACT PRIOR
- PROVIDE PROPERTY MANAGER REQUIRED PROOF OF BUILDER RISK INSURANCE AND DAMAGE DEPOSIT PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION
- CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS HE MAY DISCOVER PRIOR TO COMMENCING WORK DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS - DO NOT SCALE
- ALL DIMENSIONS ARE FROM FACE OF SHEATHING UNI ESS NOTED OTHERWISE THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISING AND DIRECTING THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE BRAND PARTNER RESERVES THE RIGHT TO ALLOW ASSIGNED VENDORS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THE WORK OF ALL SUBCONTRACTORS. INCLUDING THE VENDORS ASSIGNED BY THE BRAND PARTNER. WITH THE BRAND PARTNER. UPON REQUEST THE CONTRACTOR SHALL PROVIDE NECESSARY FIELD DIMENSIONS AND INFORMATION TO ALL THE BRAND PARTNER ASSIGNED VENDORS AND/OR FABRICATORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION. SCHEDULING, AND SUPERVISION OF ALL BRAND PARTNER SUPPLIED AND INSTALLED
- GENERAL CONTRACTOR TO COORDINATE LOCATION OF TRASH DUMPSTER WITH
- SAW CUTS: WHENEVER POSSIBLE ALL SAW CUTS SHALL BE LOCATED INSIDE THE PROPOSED COOKING AND SERVICE AREAS SCHEDULED FOR FLOOR TILE AND SHALL
- NOT OCCUR IN PROPOSED SEATING AREAS OR PASSAGEWAYS PARTIAL PLANS: THE CONSTRUCTION DOCUMENTS AS DEFINED BY THE DRAWING INDEX ARE ALL NECESSARY TO DEFINE THE TOTAL PROJECT. PARTIAL PLANS SHOULD NOT BE ISSUED BY THE BRAND PARTNER OR THE GENERAL CONTRACTOR FOR
- BIDDING OR CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE WOOD BLOCKING AS REQUIRED FOR MOUNTING TABLES, SHELVING, CABINETS, AND ANY OTHER EQUIPMENT NOT SPECIFICALLY MENTIONED. ALL WOOD SHALL BE NON-COMBUSABLE AS PER LOCAL AUTHORITY HAVING JURISDICTION.
- EXISTING UTILITY SERVICES SHOWN TO REMAIN, REROUTE AS REQUIRED TO CONCEAL THE SERVICE IN WALLS AND ABOVE CEILING. TEMPORARY ENCLOSURES SHALL BE PROVIDED BY THE CONTRACTOR OVER AND/OR
- AROUND ANY EXTERIOR OPENINGS AS NECESSARY FOR THE PROPER INSTALLATION OF ANY PORTION OF WORK IN CONJUNCTION WITH THE LANDLORD'S STANDARD GENERAL CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED ROOF OPENING
- FRAMING FOR SCHEDULED HVAC AND EXHAUST UNITS. FOR STRUCTURAL SUPPORT OF EQUIPMENT AND SUPPORT OF ROOF OPENINGS, REFER TO STRUCTURAL GENERAL CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED ROOF
- DOCUMENTATION FOR THE MODIFICATION OF EXISTING ROOF AS APPLICABLE PER THE BRAND PARTNER'S LEASE. THE LANDLORD SHALL BE CONTACTED TO OBTAIN ALL REQUIREMENTS FOR LISTED SUBCONTRACTORS WITH WARRANTY WORK FOR THE SPECIFIED ROOFING SYSTEM
- ALL IX WOOD TRIM AS NOTED SHALL BE OF A CLEAR, MODIFY STAIN GRADE PINE. CONTRACTOR SHALL CONTACT THE LANDLORD DURING THE BIDDING PHASE OF THE PROJECT FOR ANY REQUIREMENTS FOR THE FIRE ALARM SYSTEMS. THESE SYSTEMS IF REQUIRED, SHALL BE INCLUDED IN THE BID & CONSTRUCTION FOR THIS PROJECT.
- A. THE CONTRACT FORM SHALL BE A "STANDARD" FORM OF AGREEMENT BETWEEN CONTRACTOR AND BRAND PARTNER OF THE CONSTRUCTION BUILDING'S A.I.A. **DOCUMENT FORM A-101 CURRENT EDITION**
- B. GENERAL CONDITIONS OF THE CONTRACT: A.I.A. DOCUMENT A-201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, 1997 EDITION, IS HEREBY MADE A REQUIREMENT OF THE CONTRACT DOCUMENTS. A COPY IS ON FILE WITH THE ARCHITECT FOR THE CONTRACTOR TO REVIEW. SUBSTITUTIONS:
- A. NO MATERIAL SUBSTITUTIONS SHALL BE PERMITTED AFTER THE CONTRACTOR HAS BEEN AWARDED JOB, SUBSTITUTIONS SHALL BE EQUAL OR BETTER IN THE OPINION OF THE BRAND PARTNER PRIOR TO AWARD. B. SPECIFIED PRODUCTS HAVE BEEN USED IN PREPARING THESE DOCUMENTS TO
- ESTABLISH MINIMUM QUALITIES WHICH SUBSTITUTIONS MUST MEET TO BE CONSIDERED ACCEPTABLE. THE BURDEN OF PROOF OF EQUALITY RESTS WITH THE CONTRACTOR. ADEQUATE SUPPORTING INFORMATION MUST ACCOMPANY ALL SUBSTITUTION SUBMITTALS, WHICH MUST BE SUBMITTED TO THE PROJECT COORDINATOR FOR APPROVAL
- MECHANICAL. ELECTRICAL AND PLUMBING: THE GENERAL CONTRACTOR SHALL FIELD VERIFY THE EXISTING UTILITIES FOR COORDINATION WITH THE MECHANICAL. ELECTRICAL, AND PLUMBING DRAWINGS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID TO REUSE EXISTING AIR HANDLERS AND COMPRESSORS OR ROOF-TOP PACKAGE UNITS. THE TOTAL HAVC LOAD SHALL MATCH THE SPECIFIED TOTAL LOAD ON THE MECHANICAL DRAWINGS. THE CONTRACTOR SHALL CONTACT THE MECHANICAL ENGINEER WITH THE EXISTING LOAD INFORMATION FOR APPROVAL
- WINGSTOP STANDARDS: THE WINGSTOP STANDARD DESIGN, INCLUDING BUT NOT LIMITED TO: LIGHTING, SEATING, PAINT SELECTION, KITCHEN EQUIPMENT, FLOORING, WALL FINISHES, COUNTER HEIGHTS, SIGNAGE, AND ALL OTHER ELEMENTS AS NOTED AND INCLUDED IN THESE CONTRACT DOCUMENTS ARE AS PER THE WINGSTOP RESTAURANT;S, INC. FRANCHISE AGREEMENT. ANY REVISIONS TO THESE DOCUMENTS OR FIELD CHANGES TO THIS DESIGN SHALL ONLY OCCUR UPON WRITTEN APPROVALS OF WINGSTOP RESTAURANTS, INC.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE EXTERIOR GREASE INTERCEPTOR IN A MANNER THAT DOES NOT INTERFERE WITH ANY EXISTING SETBACKS, EASEMENTS, UNDERGROUND UTILITIES, OR OTHER SITE FEATURES. THE HOOD AND WALK-IN COOLER/FREEZER SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO WINGSTOP RESTAURANTS, INC. FOR REVIEW PRIOR TO FABRICATION.
- THE GENERAL CONTRACTOR SHALL VERFIY FIELD CONDITIONS FOR THE HOOD EXHAUST DUCT AND WALK-IN COOLER/FREEZER AND COORDINATE WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO FABRICATION ND INSTALLATION.

FIRE DEPARTMENT

- ALL LIFE-SAFETY SYSTEMS SHALL BE DESIGNED PER APPLICABLE FIRE PREVENTION CODE.
- FIRE EXTINGUISHER REQUIREMENTS SHALL BE AS DETERMINED BY FIELD INSPECTION AND NFPA 10. THE CONTRACTOR SHALL SUPPLY ALL FIRE EXTINGUISHERS.
- BUILDING ADDRESS NUMBERS SHALL BE PROVIDED ON THE FRONT OF THE BUILDING AND SHALL BE VISIBLE AND LEGIBLE FROM THE PUBLIC RIGHT-OF-WAY, SAID NUMBERS SHALL CONTRAST VISUALLY WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE PROVIDED BY THE CONTRACTOR.
- POST "NO PARKING FIRE LANE" SIGNS ALONG VEHICULAR ACCESS ROADS.

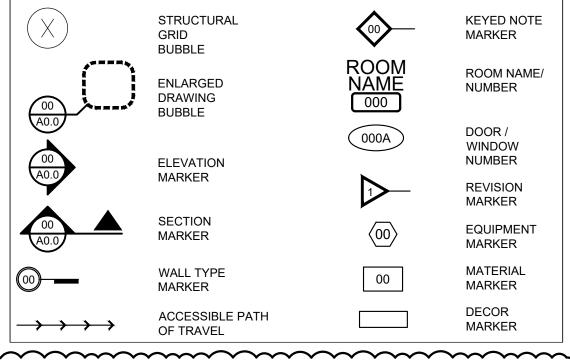
NOTES TO BIDDERS

. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE EXTERIOR GREASE INTERCEPTOR AND MUST FIELD VERIFY ALL SITE CONDITIONS DURING THE BIDDING PHASE OF THE PROJECT AND ASSIGN ALL APPLICABLE COSTS. THE LOCATION SHALL NOT INTERFERE WITH ANY EXISTING SETBACKS, EASEMENTS, UNDERGROUND UTILITIES, OR OTHER SITE FEATURES.

NOTES

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODE ORDINANCES AND LAWS.
- THE CONTRACTOR SHALL VISIT THE JOB SITE, VERIFY EXISTING CONDITIONS, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO SUBMITTING A BID AND/OR BEGINNING ANY CONSTRUCTION WORK
- ALL WORK, WHEN COMPLETED, SHALL CONFORM TO THE GOVERNING JURISDICTIONAL ACCESSIBILITY STANDARDS.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOUND BETWEEN THE CONTRACT DOCUMENTS FOR RESOLUTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COMPLETE AS-BUILT SET OF CONSTRUCTION DRAWINGS AT THE JOB SITE AND TURNING THE AS-BUILT DRAWINGS OVER TO THE OWNER UPON COMPLETION OF THE PROJECT.
- REFER TO INDIVIDUAL DRAWINGS WITHIN THIS SET OF CONSTRUCTION DOCUMENTS FOR ADDITIONAL GENERAL NOTES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THOROUGHLY CLEANING THE COMPLETED JOB SITE PRIOR TO TURNING THE PROPERTY OVER TO THE OWNER
- IN THE EVENT THAT THE CONTRACTOR, OR SUBCONTRACTOR AT ANY TIER, DETERMINES THAT SOME PORTION OF THE DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS REQUIRES CLARIFICATION OR INTERPRETATION BY THE ARCHITECT. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION IN WRITING TO THE ARCHITECT.
- REQUESTS FOR INFORMATION MAY ONLY BE MADE BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL CLEARLY AND CONCISELY SET FORTH THE ISSUE FOR WHICH CLARIFICATION IS SOUGHT AND WHY A RESPONSE IS NEEDED FROM THE ARCHITECT AND/OR CONSULTANTS. IN THE REQUEST FOR INFORMATION, THE CONTRACTOR SHALL SET FORTH AN UNDERSTANDING OF THE REQUIREMENT, ALONG WITH A REASON WHY SUCH AN UNDERSTANDING WAS REACHED. THE ARCHITECT WILL REVIEW THE REQUEST FOR INFORMATION TO DETERMINE IF IT IS A REQUEST FOR INFORMATION WITHIN THE MEANING OF THIS TERM. IF THE ARCHITECT DETERMINES THAT IT IS NOT A REQUEST FOR INFORMATION, IT WILL BE RETURNED TO THE CONTRACTOR, UNREVIEWED AS TO CONTENT, FOR RESUBMITTAL IN THE PROPER FORM AND THE PROPER MANNER.
- RESPONSES TO REQUESTS FOR INFORMATION SHALL BE ISSUED UPON RECEIPT. BUT NO LATER THAN FIVE WORKING DAYS OF RECEIPT OF THE REQUEST, UNLESS THE ARCHITECT DETERMINES THAT A LONGER PERIOD OF TIME IS NEEDED IN ORDER TO PROVIDE AN ADEQUATE RESPONSE. IF A LONGER PERIOD OF TIME IS DETERMINED NECESSARY BY THE ARCHITECT, THE ARCHITECT WILL, WITHIN FIVE WORKING DAYS OF THE RECEIPT OF THE REQUEST FOR INFORMATION, NOTIFY THE CONTRACTOR OF THE ANTICIPATED RESPONSE TIME.
- 1. IF THE CONTRACTOR SUBMITS A REQUEST FOR INFORMATION WITH FIVE WORKING DAYS OR LESS FLOAT ON THE CURRENT PROJECT SCHEDULE, THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY TIME EXTENSION DUE TO THE TIME IT TAKES THE ARCHITECT TO RESPOND TO THE REQUEST FOR INFORMATION, PROVIDED A RESPONSE IS GIVEN WITHIN FIVE WORKING DAYS AS SET FORTH ABOVE.
- 12. RESPONSES FROM THE ARCHITECT WILL NOT CHANGE ANY REQUIREMENTS OF THE CONTRACTOR DOCUMENTS. IN THE EVENT THAT THE CONTRACTOR BELIEVES A RESPONSE TO A REQUEST FOR INFORMATION WILL CAUSE A CHANGE TO REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY GIVE WRITTEN NOTICE TO THE ARCHITECT AND THE OWNER STATING THAT THE CONTRACTOR CONSIDERS THE RESPONSE TO BE A CHANGE ORDER. FAILURE TO GIVE SUCH WRITTEN NOTICE IMMEDIATELY SHALL WAIVE THE CONTRACTOR'S RIGHT TO SEEK ADDITIONAL
- 13. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES-WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL
- 14. PROVIDE ULTRA FLUSH WATER CLOSETS OR ALL NEW CONSTRUCTION. EXISTING POWER HEADS AND TOILETS MUST BE ADAPTED FOR LOW WATER
- 15. A COPY OF THE VALID EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
- 16. OBTAIN SEPARATE PERMIT FOR RETAINING WALLS OR BLOCK FENCE WALLS. GRADING WORK, ELECTRICAL, PLUMBING, AND SIGNAGE.

SYMBOLS LEGEND



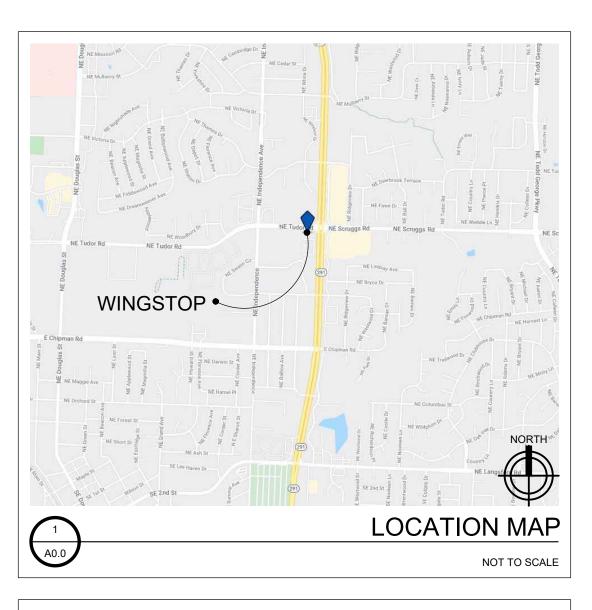
FIRE NOTES

2018 IFC 505.1- Address numbers. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. In Multi-tenant commercial building where tenants have

multiple entrances located on different sides of the building , each door shall be addressed. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). (Verified At Inspection)

2018 IFC 901.5- Installation acceptance testing. Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing. The fire code official shall be notified 48 hours before any required acceptance test.

2018 IFC 904.11.5- Portable fire extinguishers for commercial cooking equipment. Portable fire extinguishers shall be provided within a 30-foot (9144 mm) travel distance of commercial-type cooking equipment. Cooking equipment involving vegetable or animal oils and fats shall be protected by a







LEE'S SUMMIT, MO (GL#Y175)

CODE INFORMATION

NOT TO SCALE

	Building Code: 2018 International Building Code with City Amendments Plumbing Code: 2018 International Plumbing Code with City Amendments Mechanical Code: 2018 International Mechanical Code with City Amendments Electrical Code: 2017 National Electrical Code with City Amendments Fuel Gas Code: 2018 International Fuel Gas Code with City Amendments Fire Prevention Code: 2018 International Fuel Gas Code with City Amendments Accessibility Code: 2018 International Fire Code with City Amendments 2018 International Building Code with City Amendments 2018 International Fuel Gas Code with Ci	
A.)	CHAPTER 3: USE & OCCUPANCY CLASSIFICATION: Group: B (Business)	
B.)	CHAPTER 5: GENERAL BUILDING HEIGHTS & AREAS: Existing Building Area: 11,200 square feet Existing Use(s): B (Business), M (Mercantile) Proposed Use(s): B (Business), M (Mercantile) Most Restrictive Use: M (Mercantile) Allowable Height (40 ft): 1 Story Allowable Area (M): 9,000 square feet Area Modification: Frontage Increase: $I_f = (F/P - 0.25) \times W/30$ $I_f = (45/4454 - 0.25) \times 30/30$ $I_f = 0.75$ Area Increase:	
	$A_a = [\{A_1 + (A_1 \times I_j)\} + (A_1 \times I_3)]$ $A_a = [\{9,000 + (9,000 \times 0.75)\} + (9,000 \times 0)]$ $A_a = 15,750$	
•	Full Building Automatic Fire Sprinkler System: No Nonseparated Occupancies	
C.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION:	
C.)	Nonseparated Occupancies	
C.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB	Rating
C.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings:	Rating
C.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior	0 0
C.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior	0 0 0
c.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Exterior	0 0 0 0
c.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Exterior Nonbearing Walls – Interior	0 0 0 0 0
C.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Exterior Nonbearing Walls – Interior Floor Construction	0 0 0 0 0
C.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Exterior Nonbearing Walls – Interior	0 0 0 0 0
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C.)	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Exterior Nonbearing Walls – Interior Floor Construction Roof Construction CHAPTER 8: INTERIOR FINISHES:	0 0 0 0 0
:	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Interior Nonbearing Walls – Interior Floor Construction Roof Construction	0 0 0 0 0
:	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Exterior Nonbearing Walls – Interior Floor Construction Roof Construction CHAPTER 8: INTERIOR FINISHES: Required Interior Wall & Ceiling Finish Classifications:	0 0 0 0 0 0 0
:	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Interior Nonbearing Walls – Interior Floor Construction Roof Construction CHAPTER 8: INTERIOR FINISHES: Required Interior Wall & Ceiling Finish Classifications: Type Of Space	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
:	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Exterior Nonbearing Walls – Interior Floor Construction Roof Construction CHAPTER 8: INTERIOR FINISHES: Required Interior Wall & Ceiling Finish Classifications: Type Of Space Exit Enclosures & Exit Passageways	0 0 0 0 0 0 0 0 0
:	Nonseparated Occupancies CHAPTER 6: TYPES OF CONSTRUCTION: Type: VB Required Fire-Resistive Ratings: Building Element Structural Frame Bearing Walls – Exterior Bearing Walls – Interior Nonbearing Walls – Interior Nonbearing Walls – Interior Floor Construction Roof Construction CHAPTER 8: INTERIOR FINISHES: Required Interior Wall & Ceiling Finish Classifications: Type Of Space Exit Enclosures & Exit Passageways Corridors	0 0 0 0 0 0 0 0 0

665 square feet 177 square feet 140 square feet

CHAPTER 29: PLUMBING FIXTURE REQUIREMENTS: Male Occupant Load (29 / 2): 15 Female Occupant Load (29 / 2): 15

Lavatory
Urinal (Optional) * 1 Service Sink Required

PROJECT TEAM

PROJECT COORDINATOR

ARCHITEC

MATTHEW M. WILKUS ARCHITECT 15 NINTH AVENUE NORTH HOPKINS, MINNESOTA 55343 PHONE NO.: (952) 941-8660 FAX NO.: (952) 941-2755 ATTN: JIM SULTANY

CASE ENGINEERING, INC 796 MERUS COURT FENTON, MO 63026 PHONE NO.: (636) 349-1600 FAX NO.: (636) 349-1730 ATTN: DINO CHIRCO

SHEET INDEX

BRAND PARTNER / OWNER

SAN ANTONIO WINGS, INC 510 PORTLAND SAN ANTONIO, TX 78216 PHONE NO.: (210) 602-8412 ATTN: CHARLES LOFLIN

WINGSTOP RESTAURANTS, INC 15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001 PHONE NO.: (972) 686-6500 FAX NO.: (972) 686-6502 ATTN: TODD BRIN

M.E.P. ENGINEER

CASE ENGINEERING, INC **796 MERUS COURT** FENTON, MO 63026 PHONE NO.: (636) 349-1600 FAX NO.: (636) 349-1730 ATTN: JOHN VIRTUDAZO

STRUCTURAL ENGINEER

SHEET DESCRIPTION A0.0 SHEET INDEX ARCHITECTURAL B1.0 INTERIOR ACCESSIBILITY

B2.0 ACCESSIBILITY & ENLARGED RESTROOM PLAN A0.1 ARCHITECTURAL DEMO PLAN A1.0 ARCHITECTURAL FLOOR PLAN

EQ2 INTERIOR EQUIPMENT ELEVATIONS

A1.1 FLOOR FINISH PLAN & DETAILS A2.0 REFLECTED CEILING PLAN & DETAILS A3.0 INTERIOR ELEVATIONS

A3.1 DECOR ELEVATIONS A4.0 FINISH, DOOR, & HARDWARE SCHEDULES A5.0 SALES COUNTER PLAN & DETAILS

A6.0 WALL SECTIONS & DETAILS KITCHEN EQUIPMENT EQ1 EQUIPMENT PLAN

> EQ3 EQUIPMENT DATA ELEVATIONS H1 HOOD DRAWINGS H2 HOOD DRAWINGS H3 HOOD DRAWINGS

> > H4 HOOD DRAWINGS

H5 HOOD DRAWINGS

M1 | MECHANICAL PLAN

MECHANICAL

M2 | MECHANICAL DETAILS / SCHEDULES M3 | MECHANICAL SPECIFICATIONS M4 MECHANICAL SPECIFICATIONS

P1 | SANITARY PLAN P2 WATER & GAS PLAN

P3 RISER DIAGRAMS P4 PLUMBING DETAILS P5 PLUMBING SPECIFICATIONS ELECTRICAL

E1 LIGHTING PLAN
E2 POWER PLAN E3 | ELECTRICAL SPECIFICATIONS STRUCTURAL

S1 GENERAL NOTES, PLAN, AND DETAILS

S2 EXISTING ROOF FRAMING PLAN

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

LEE'S SUMMIT, MISSOUR

RELEASE FOR CONSTRUCTION

15 Ninth Aveune North, Hopkins, MN 55343



ADDISON, TX 75001 TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

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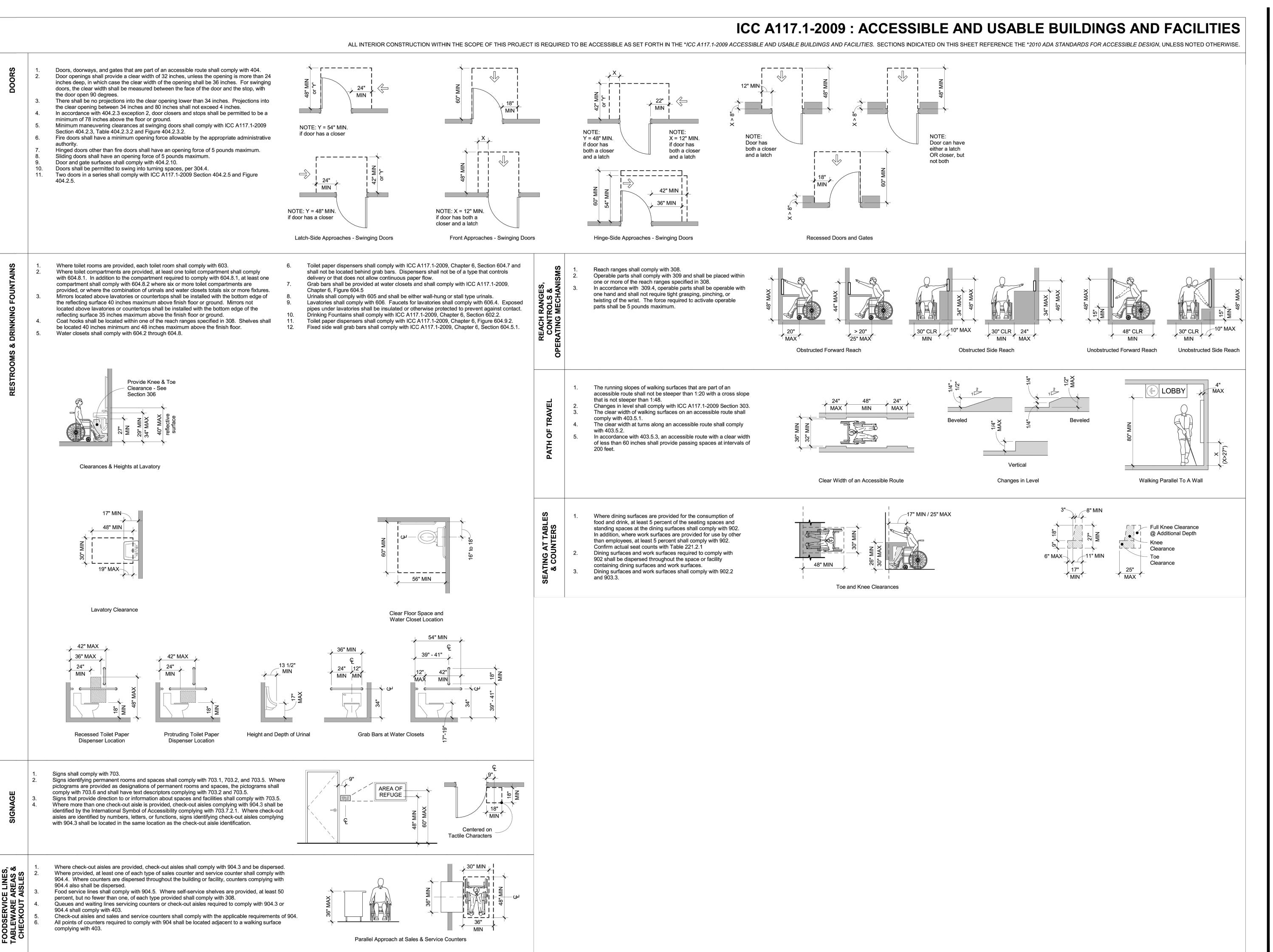
DISCLAIMER

MATTHEW M. WILKUS, ARCHITECT LICENSE NUMBER: 2019000244

EXPIRATION DATE: 12-31-21

PROJECT NO.: 2021-0158 DRAWN BY: NAV CHECKED BY: JSS PERMIT & BID SET

BLDG. COMMENTS 07-08-21



RELEASE FOR CONSTRUCTION CONSULTANT: DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

15 Ninth Aveune North, Hopkins, MN 55343

Phone: 952.941.8660/ www.wilkusarch.com

15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001 TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

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PROJECT INFORMATION:

LICENSE NUMBER: 2019000244 EXPIRATION DATE: 12-31-21 DATE

MATTHEW M. WILKUS, ARCHITECT

PROJECT NO.: 2021-0158 DRAWN BY: NAV CHECKED BY: JSS DATE: PERMIT & BID SET 06-16-21

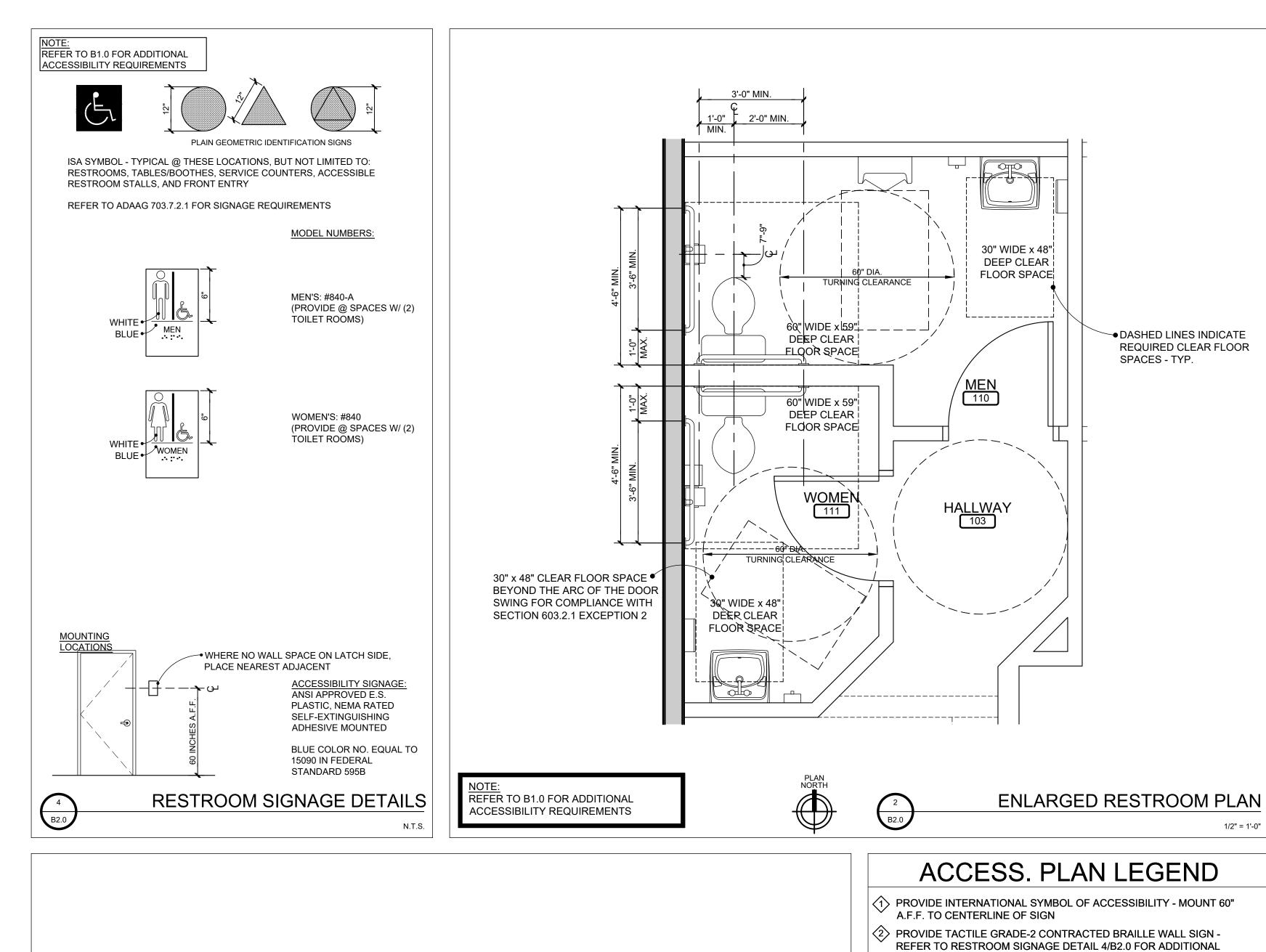
REVISION.

DATE:

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

INTERIOR ACCESSIBILITY

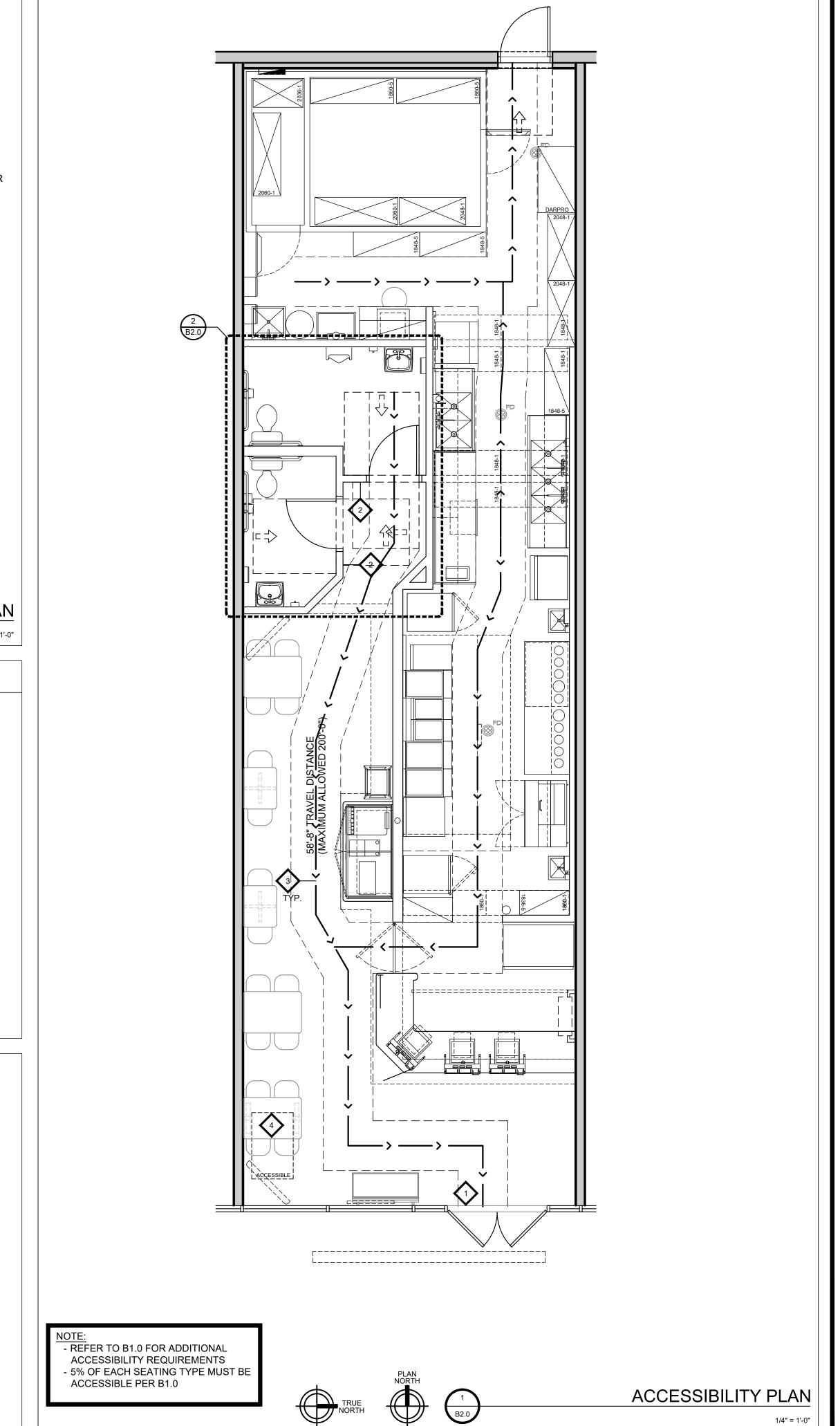


INFORMATION

NOT USED

3 LINE INDICATES 36" PATH OF TRAVEL

ACCESSIBLE TABLE - PROVIDE KNEE / TOE CLEARANCE PER B1.0 "TABLE SEATING & COUNTERS"



CONSULTANT: DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI 15 Ninth Aveune North, Hopkins, MN 55343 Phone: 952.941.8660/ www.wilkusarch.com

RELEASE FOR CONSTRUCTION

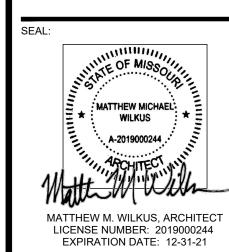


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PROJECT INFORMATION:



DATE PROJECT NO.: 2021-0158

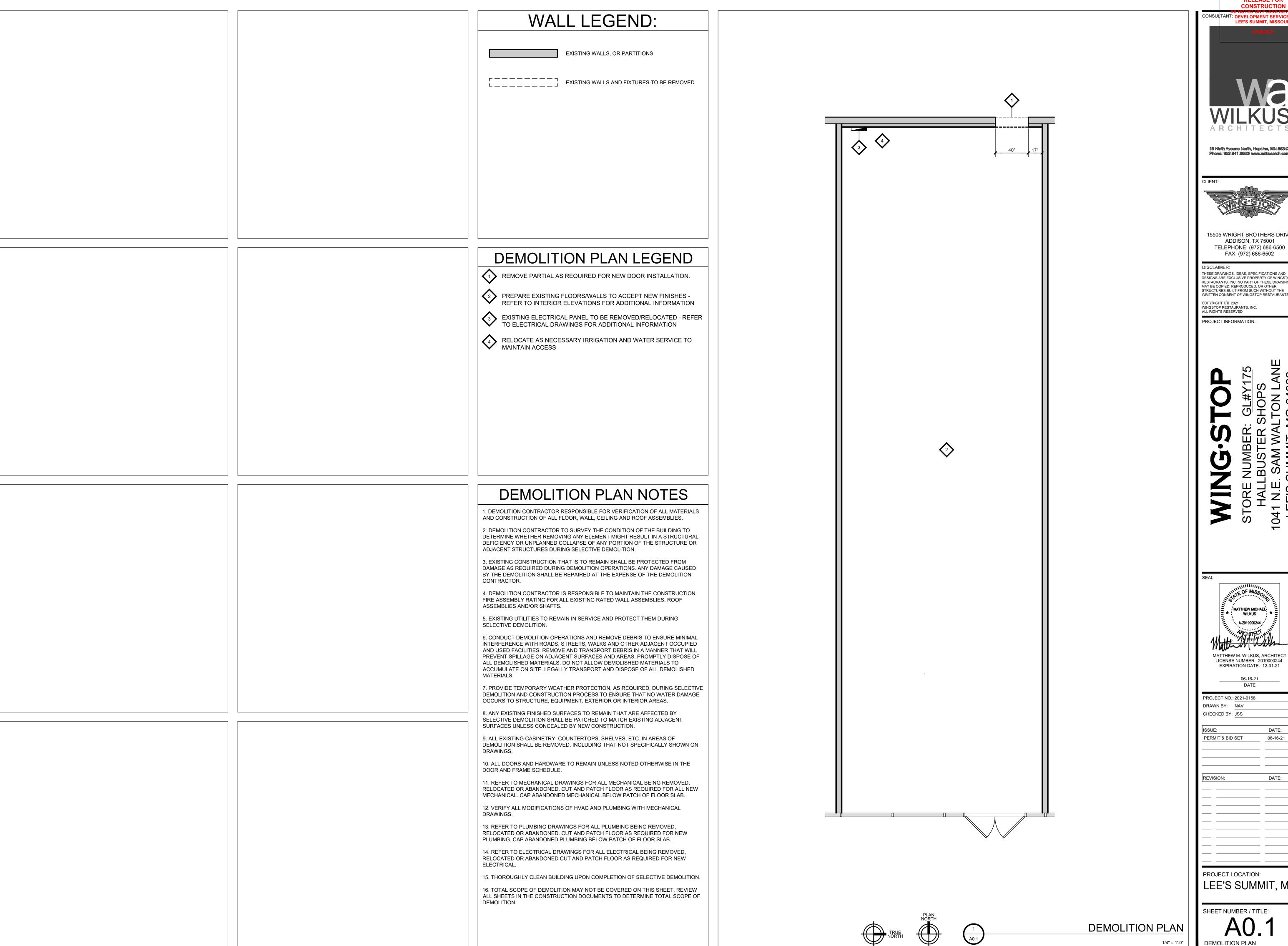
DRAWN BY: NAV CHECKED BY: JSS PERMIT & BID SET 06-16-21

REVISION:

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

ACCESSIBILITY PLAN



LEE'S SUMMIT, MISSOURI

15 Ninth Aveune North, Hopkins, MN 55343 Phone: 952.941.8660/ www.wilkusarch.com



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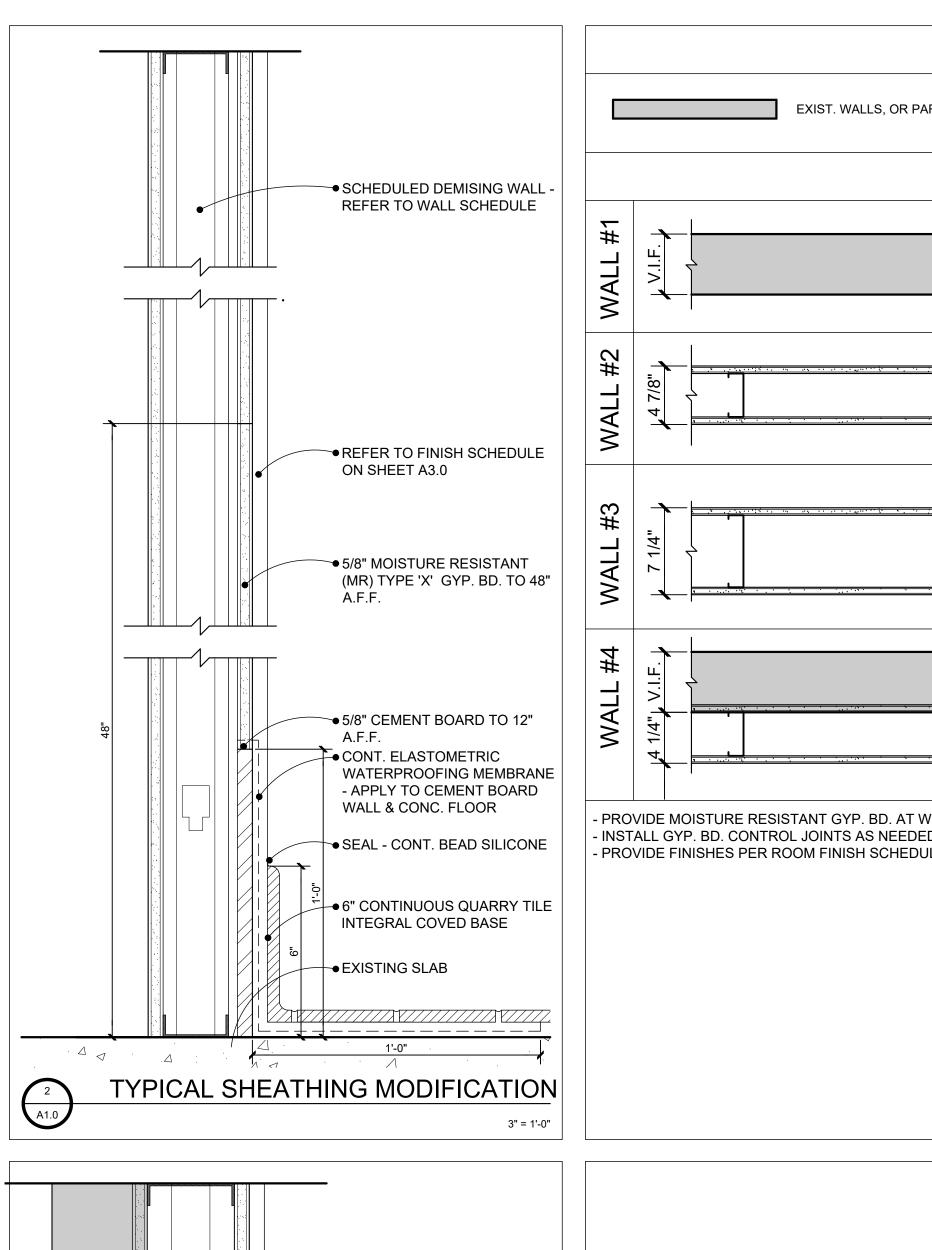
LICENSE NUMBER: 2019000244 EXPIRATION DATE: 12-31-21

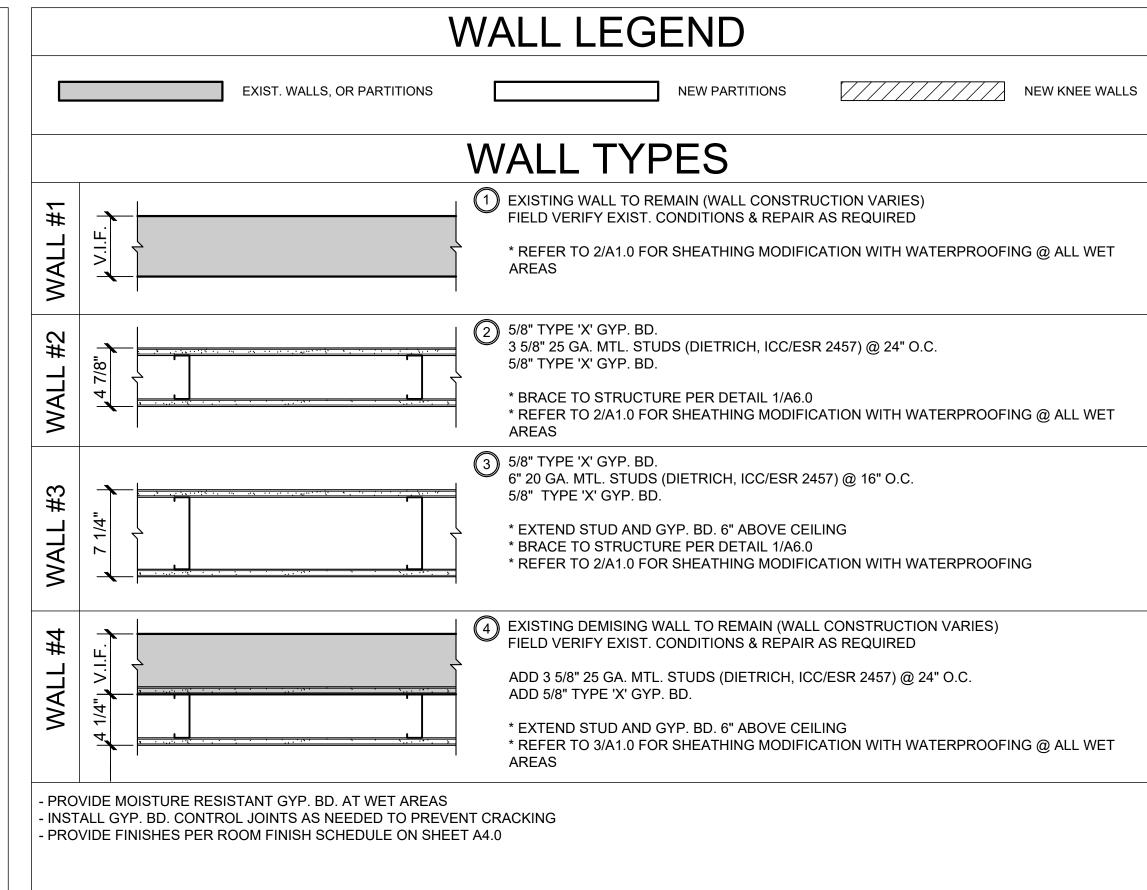
PROJECT NO.: 2021-0158 DRAWN BY: NAV

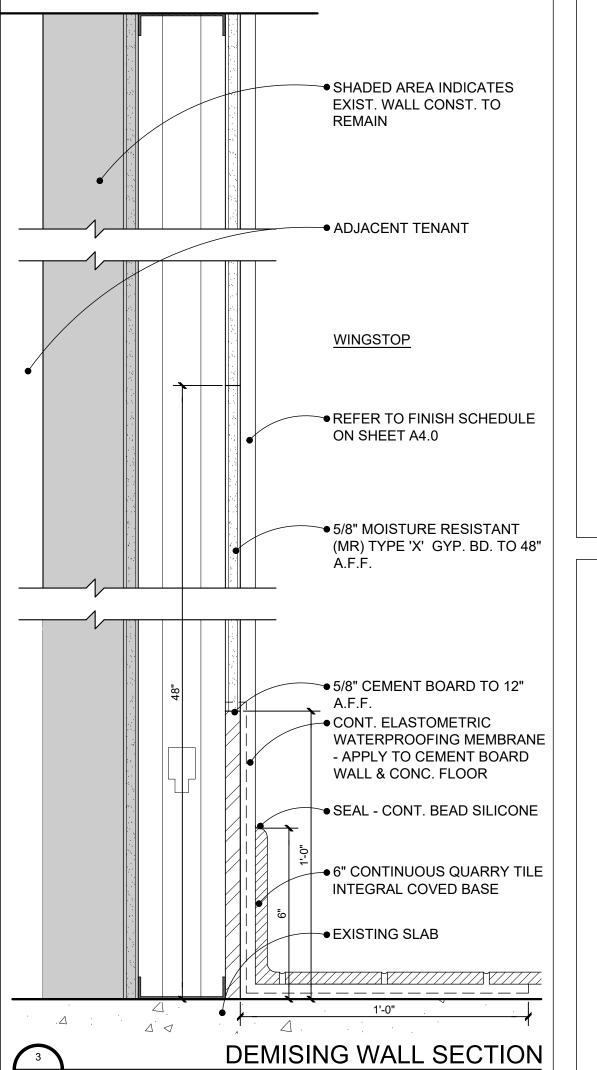
PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

DEMOLITION PLAN





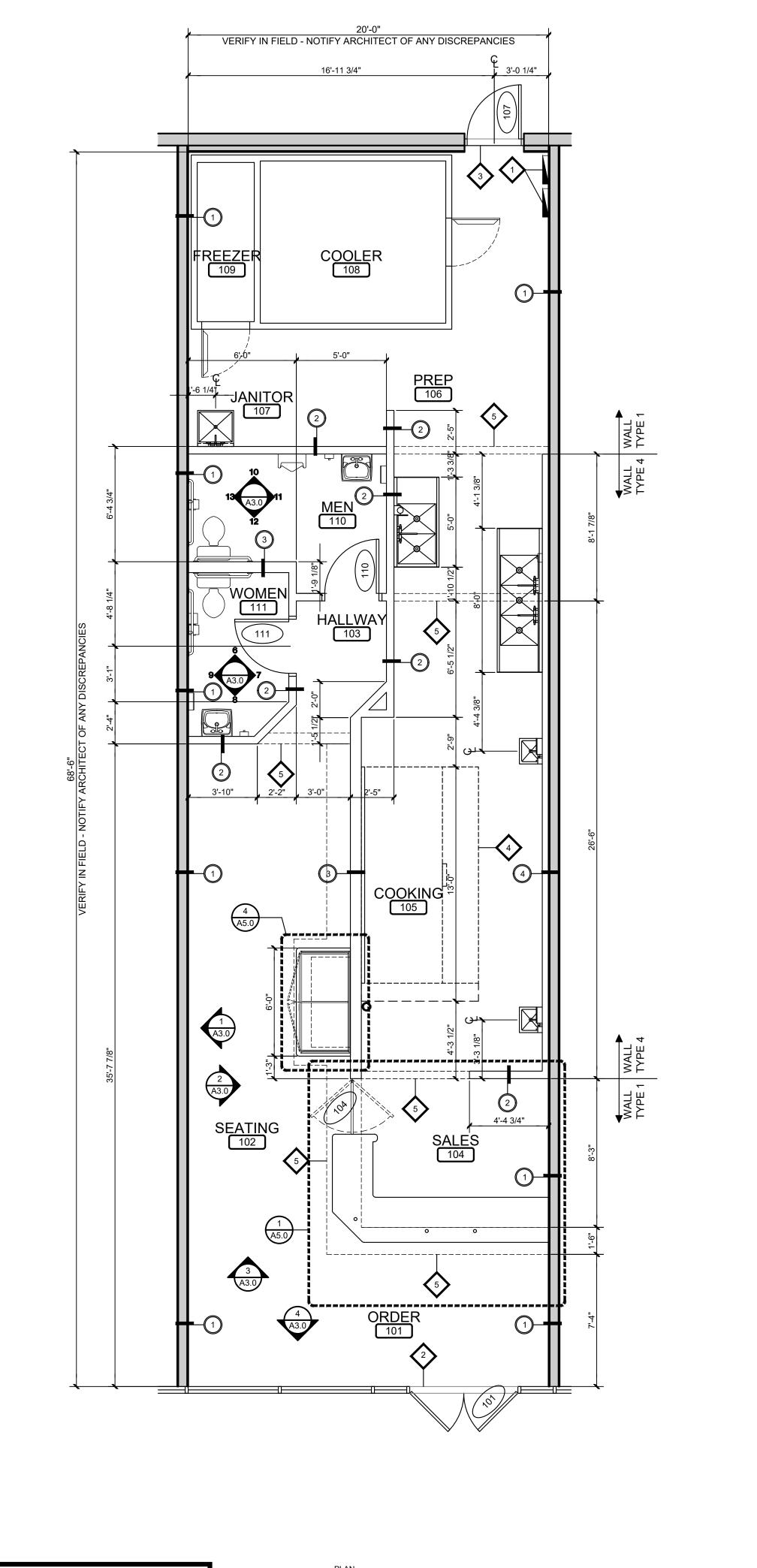




- ELECTRICAL PANEL LOCATION PROVIDE A 30" X 36" CLEAR FLOOR SPACE IN FRONT OF PANEL(S) REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- (2) EXIST. THRESHOLD TO REMAIN VERIFY 1/2" LIP MAXIMUM AND BEVELED SIDES THAT SLOPE 1:2 MAXIMUM REPLACE AS NEEDED.
- PROVIDE NEW THRESHOLD VERIFY 1/2" LIP MAXIMUM AND BEVELED SIDES THAT SLOPE 1:2 MAXIMUM.
- DASHED LINE INDICATES EXHAUST HOOD REFER TO REFLECTED CEILING PLAN ON SHEET A2.0 FOR ADDITIONAL INFORMATION.
- DASHED LINE INDICATES SOFFIT / HEADER ABOVE REFER TO REFLECTED CEILING PLAN ON SHEET A2.0.

FLOOR PLAN NOTES

- 1. REFER TO SHEET EQ1 FOR SEATING, AND EQUIPMENT LAYOUT AND SHEET EQ2 FOR EQUIPMENT ELEVATIONS.
- 2. DIMENSIONS ARE TO THE FINISH FACE OF SHEATHING.
- 3. VERIFY DEMISING WALLS ARE FULL HEIGHT TO DECK NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.



NOTE:
REFER TO A0.0 FOR GENERAL NOTES
AND NOTES TO BIDDERS







ARCHITECTURAL FLOOR PLAN

A1.0

ARCHITECTURAL FLOOR PLAN

SHEET NUMBER / TITLE:

LEE'S SUMMIT, MO

PROJECT LOCATION:

MATTHEW M. WILKUS, ARCHITECT LICENSE NUMBER: 2019000244

EXPIRATION DATE: 12-31-21

06-16-21

DATE:

PROJECT NO.: 2021-0158

DRAWN BY: NAV

CHECKED BY: JSS

PERMIT & BID SET

RELEASE FOR CONSTRUCTION

CONSULTANT: DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

15 Ninth Aveune North, Hopkins, MN 55343

15505 WRIGHT BROTHERS DRIVE

ADDISON, TX 75001

TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

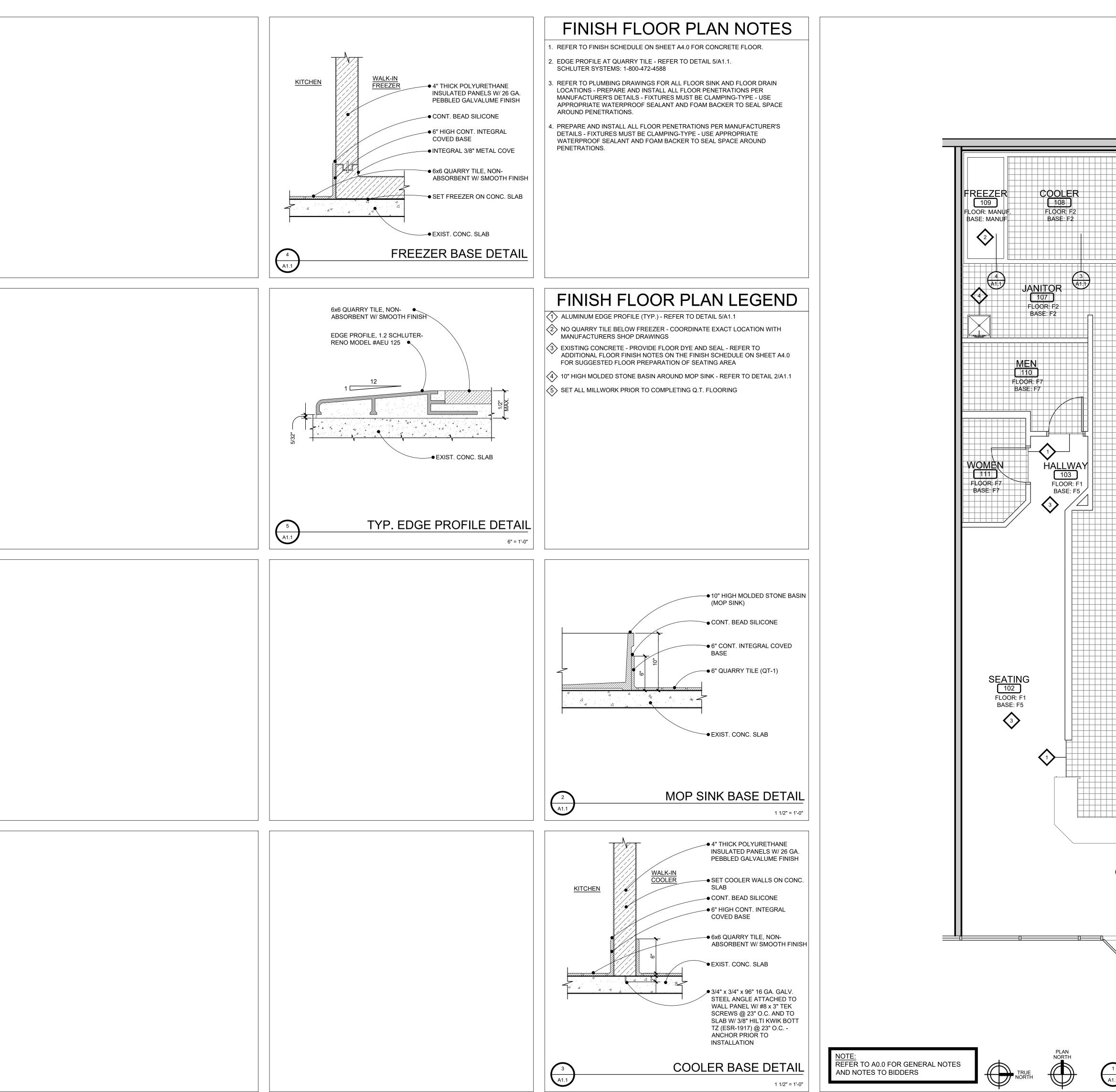
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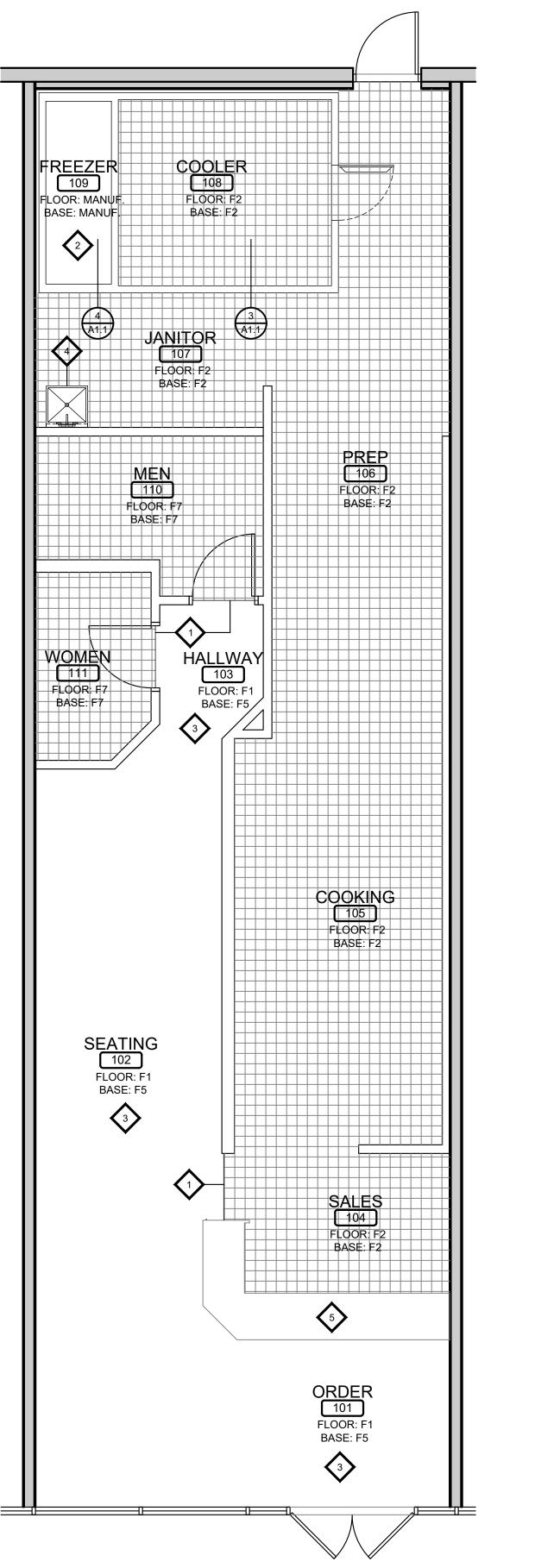
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PROJECT LOCATION: LEE'S SUMMIT, MO SHEET NUMBER / TITLE:

MATTHEW M. WILKUS, ARCHITECT LICENSE NUMBER: 2019000244 EXPIRATION DATE: 12-31-21

DATE:

06-16-21

DATE:

PROJECT NO.: 2021-0158

DRAWN BY: NAV CHECKED BY: JSS

PERMIT & BID SET

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

CONSULTANT: DEVELOPMENT SERVICES

15 Ninth Aveune North, Hopkins, MN 55343 Phone: 952.941.8660/ www.wilkusarch.com

15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001 TELEPHONE: (972) 686-6500

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DISCLAIMER:

FINISH FLOOR PLAN

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

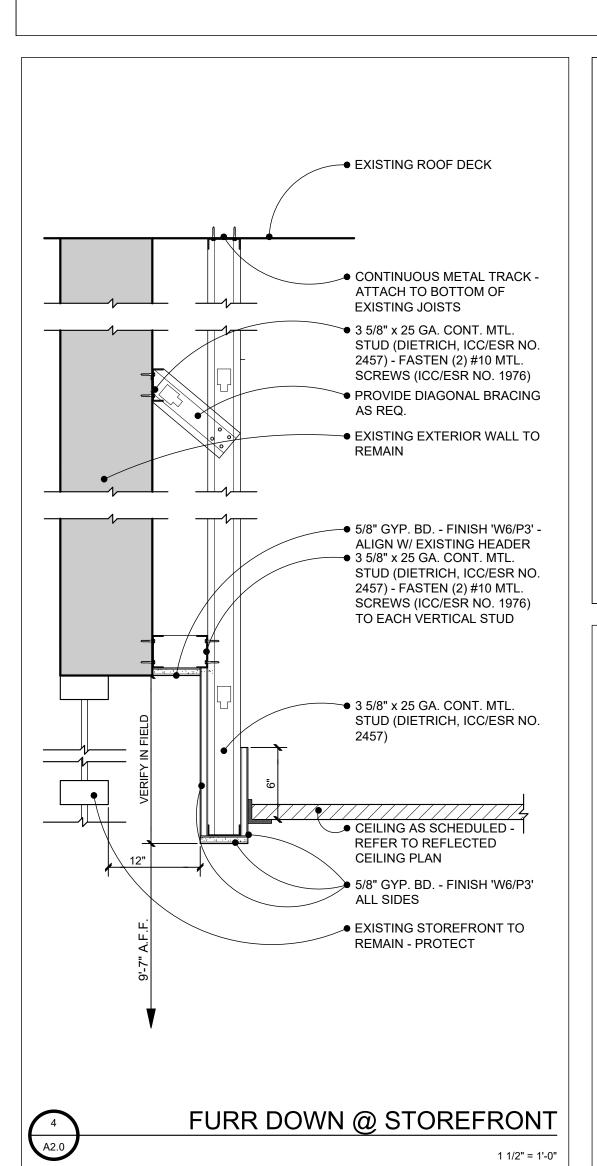
MK.	SYMBOL	LIGHTING, DIFFUSERS	MOUNTING HEIGHT	NOTES
A	田田	FIXTURE: 2'-0" TRACK W/ (2) FIXTURES (HEAD) SUPPLIER: MELETIO ELECTRICAL SUPPLY	MOUNT TO BOTTOM OF SCHEDULED CLG., BOTTOM OF TRACK MOUNTED TO BOTTOM OF FRAMING AND 3'-0" FROM ADJACENT WALLS UNLESS NOTED OTHERWISE	SCHEDULE SHEET A4.0 SUSPEND FROM CLG. W/ 3/8" ALL-THREAD
В	0	FIXTURE: 16" ROUND PENDANT W/ 15'-0" CORD (BLACK) SUPPLIER MELETIO ELECTRICAL SUPPLY	MOUNT TO SCHEDULED CLG. AS FOLLOWS: ALL AREAS SUSPEND TO 8'-6" A.F.F. TO BOTTOM OF FIXTURE	N/A
BA	0	FIXTURE: 121 DC SERIES TYPE: I-1, 6" D ROUND PENDANT 8 1/2" H (BLACK) REMCRAFT LIGHTING	MOUNT TO SCHEDULED CLG. AS FOLLOWS: ALL AREAS SUSPEND TO 8'-6" A.F.F. TO BOTTOM OF FIXTURE	N/A
С	0	FIXTURE: 2'x4' TROFFER W/ ACRYLIC LENS SUPPLIER: MELETIO ELECTRICAL SUPPLY	MOUNT TO SCHEDULED ACOUSTICAL CLG.	N/A
CA	0	FIXTURE: 2'x4' TROFFER W/ ACRYLIC LENS SUPPLIER: MELETIO ELECTRICAL SUPPLY	MOUNT TO SCHEDULED ACOUSTICAL CLG.	N/A
D	-	FIXTURE: 4" ROUND RECESSED CAN LIGHT SUPPLIER MELETIO ELECTRICAL SUPPLY	MOUNT TO SCHEDULED ACOUSTICAL CLG. NOTE: CLG. INSULATION MUST BE 3" AWAY ON ALL SIDES	N/A
DA	\oplus	FIXTURE: 6" ROUND RECESSED CAN LIGHT SUPPLIER MELETIO ELECTRICAL SUPPLY	MOUNT TO SCHEDULED ACOUSTICAL CLG. NOTE: CLG. INSULATION MUST BE 3" AWAY ON ALL SIDES	N/A
DB	8	FIXTURE: 6" ROUND RECESSED CAN LIGHT SUPPLIER MELETIO ELECTRICAL SUPPLY	MOUNT TO SCHEDULED ACOUSTICAL CLG. NOTE: CLG. INSULATION MUST BE 3" AWAY ON ALL SIDES	N/A
F	A A A	FIXTURE: 6'-0" TRACK WITH AMP CURRENT LIMITER (4) WALL WASH TRACK HEADS (WHITE) SUPPLIER: MELETIO ELECTRICAL SUPPLY	MOUNT TO SCHEDULED CLG.	CLG. INSULATION MUST BE 3" AWAY ON ALL SIDES
LCD		FIXTURE: WALL MOUNTED FLAT PANEL DISPLAY TV WALL MOUNTING BRACKET FOR FLAT SCREEN TV'S 32" TO 42" MODELS CONTRACTOR TO COORDINATE BRACKET WITH MANUFACTURER'S RECOMMENDATION AND OWNER SELECTION SUPPLIED BY OWNER	MOUNT TO SCHEDULED PARTITION WITH BOTTOM OF LCD PANEL AS INDICATED ON THE REFLECTED CLG. PLAN	N/A
S		8" CEILING RECESSED SPEAKER PROVIDED BY OWNER, SUPPLIED BY APPROVED VENDOR, COORDINATED BY GC - PROVIDE MIN. 6" ADDITIONAL WIRE PER SPEAKER AT J-BOX	MOUNT IN TILE	PROVIDE IN FACTORY FINISHED FLAT BLACK

CEILING PLAN NOTES

- LIGHT FIXTURES SHALL BE PLACED AS DIMENSIONED AND SCHEDULED ALL LIGHT FIXTURES SUPPLIED AS SCHEDULED WITH NO EXCEPTIONS
- 3. REFER TO MECHANICAL DRAWINGS FOR RETURN AND DIFFUSER LOCATIONS - ALL RETURNS AND DIFFUSERS IN SALES, ORDER, AND SEATING AREAS TO BE FACTORY FINISHED IN FLAT BLACK
- VERIFY LOCATION AND QUANTITIES FOR EMERGENCY LIGHTING WITH ELECTRICAL DRAWINGS, LOCAL INSPECTION AGENCY, AND LOCAL FIRE MARSHALL - EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR - THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE ELECTRICAL CODE
- 5. REFER TO DETAIL 5/A2.0 FOR SUSPENDED CEILING DETAIL
- REFER TO THE FINISH SCHEDULE ON SHEET A4.0 FOR CEILING FINISH INFORMATION

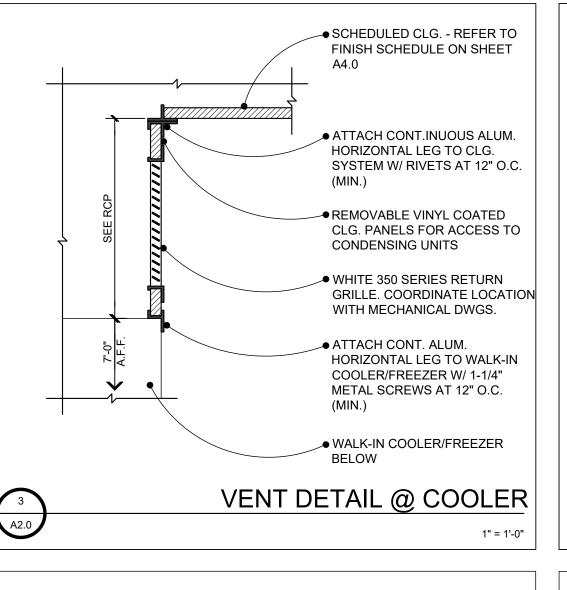
CEILING LEGEND

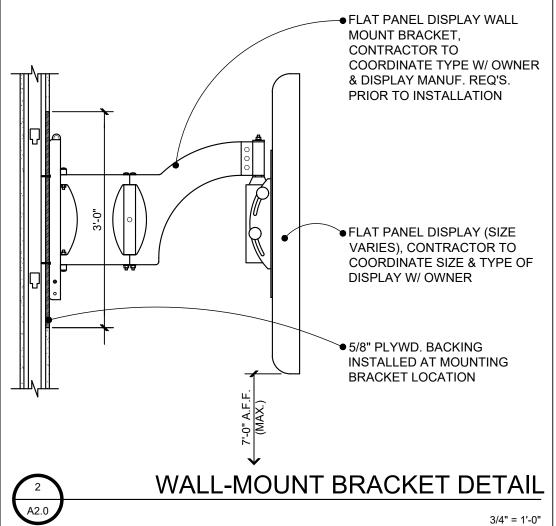
- 1 INSTALL ALL WALL MOUNTED LCD/TV OUTLETS 7'-0" A.F.F. REFER TO 2/A2.0 TYP.
- TRACK LIGHTING (BLACK) MOUNTED TO BOTTOM OF THE CEILING TILE TYP.
- PENDANT LIGHTING REFER TO THE LIGHTING SCHEDULE FOR MOUNTING LOCATIONS - TYP.
- \$\leq 4 \rightarrow \text{SPEAKER LOCATIONS PROVIDED BY OWNER, SUPPLIED BY APPROVED VENDOR,} AND COORDINATED BY GC
- 5 MENU BOARD MOUNT BOTTOM OF MENU BOARD AT 7'-0" A.F.F. REFER TO A3.0 FOR ADD. INFO.
- 6 CEILING GRID STARTING POINT
- 7 DINE IN SIGN REFER TO A3.1 FOR ADD. INFO.
- 8 ORDER AHEAD SIGN, ORIENTATE TO FRONT DOOR REFER TO A3.1 FOR ADD.

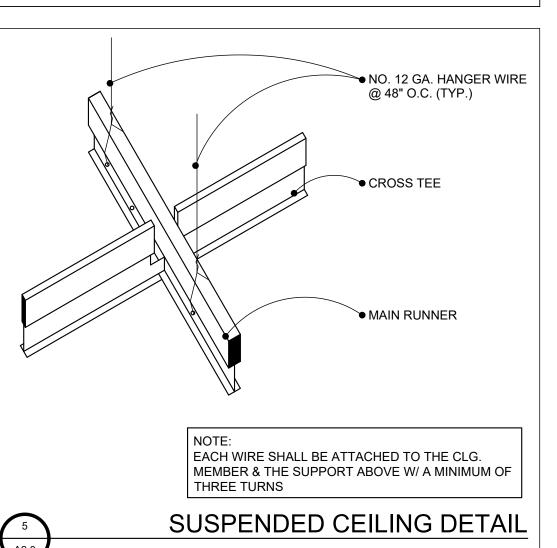


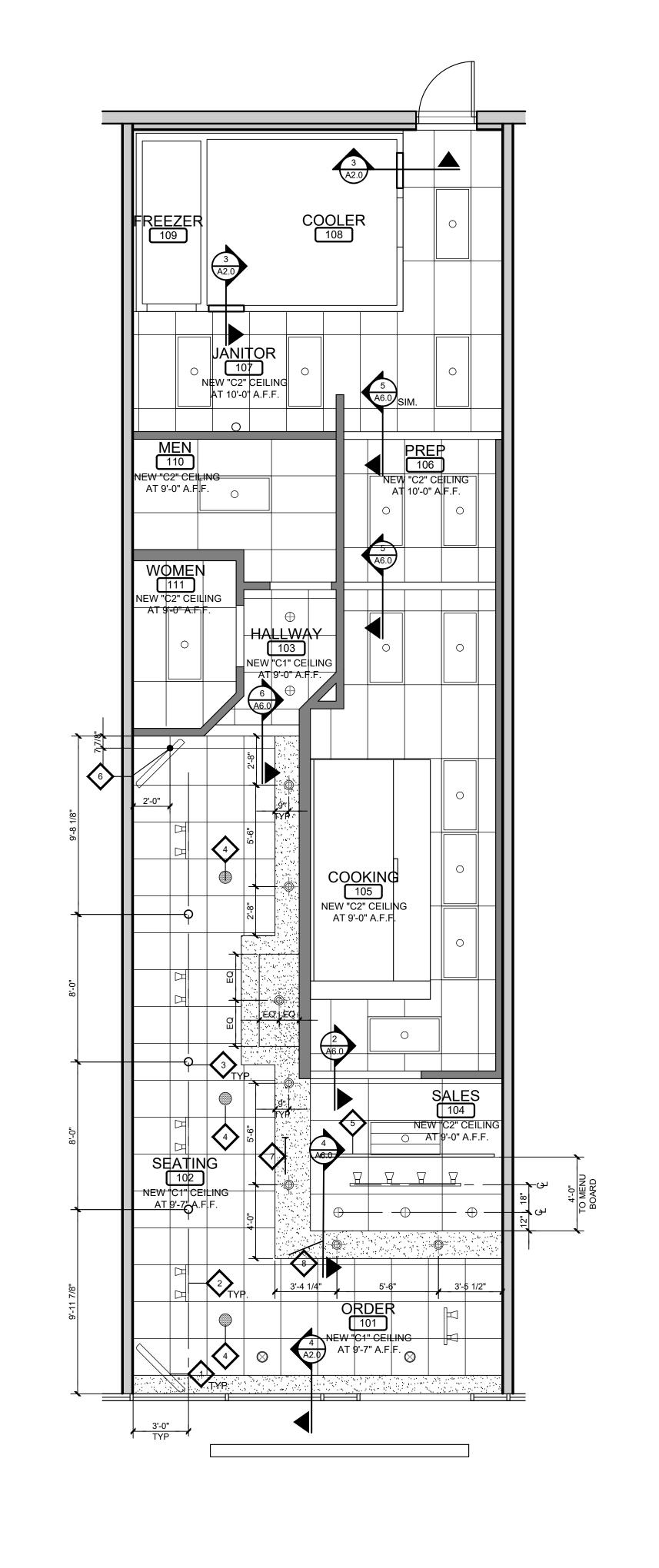
MELETIO ELECTRICAL SUPPLY: 10930 HARRY HINES, DALLAS, TEXAS 75220

CONTACT: JIM ELLIS (SALES MANAGER), PHONE 1-800-777-4993 EXT. 1143 OFFICE, 972-559-6943 DIRECT, 214-353-3425 FAX, JELLIS@MELETIO.COM





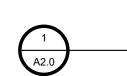




REFER TO A0.0 FOR GENERAL NOTES AND NOTES TO BIDDERS







SHEET NUMBER / TITLE: REFLECTED CEILING PLAN

LEE'S SUMMIT, MO

PROJECT LOCATION:

MATTHEW M. WILKUS, ARCHITECT LICENSE NUMBER: 2019000244 EXPIRATION DATE: 12-31-21

DATE

PROJECT NO.: 2021-0158

DRAWN BY: NAV

CHECKED BY: JSS

PERMIT & BID SET

REVISION:

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

CONSULTANT: DEVELOPMENT SERVICES

15 Ninth Aveune North, Hopkins, MN 55343 Phone: 952,941,8660/www.wilkusarch.com

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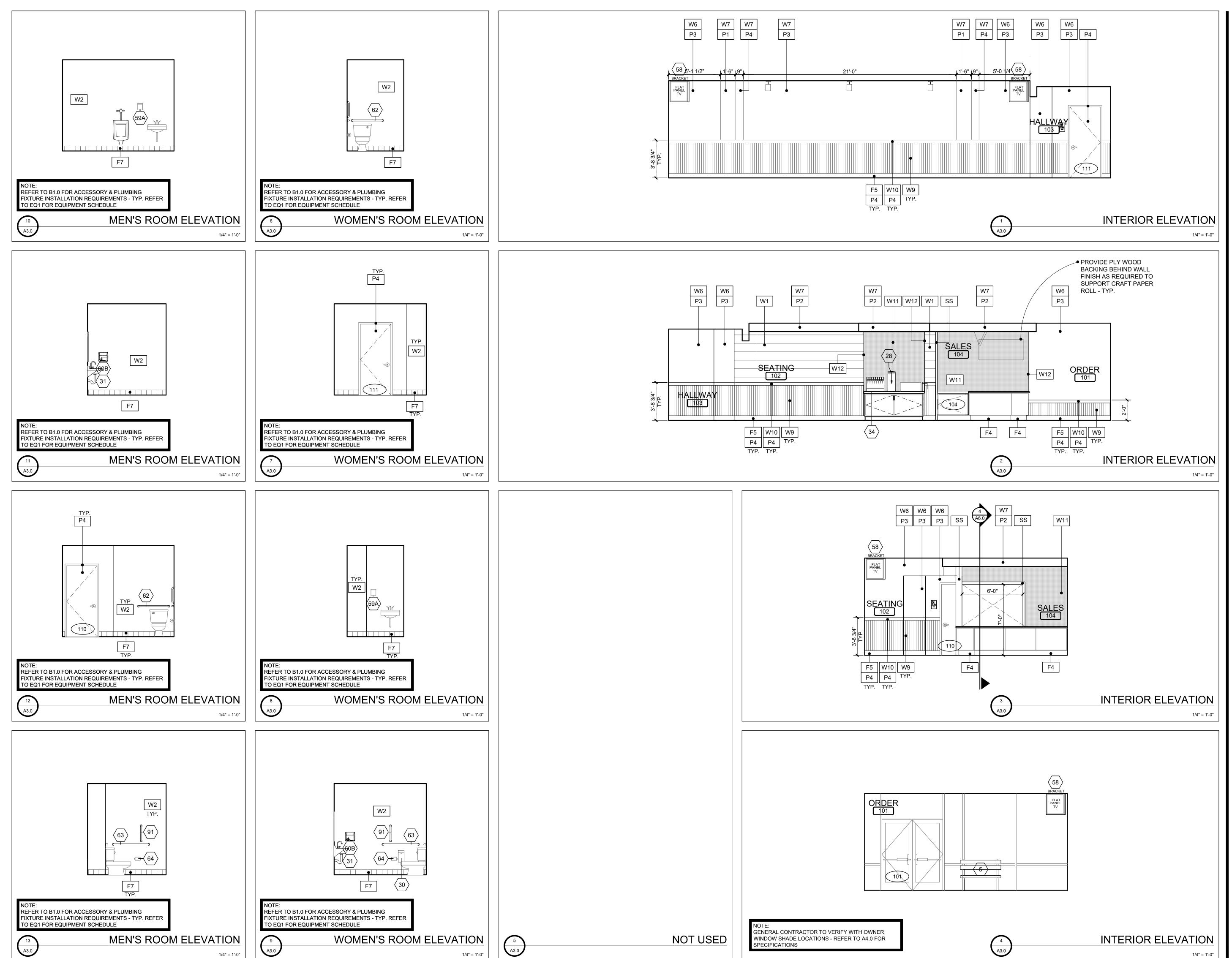
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REFLECTED CEILING PLAN



RELEASE FOR CONSTRUCTION CONSULTANT: DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

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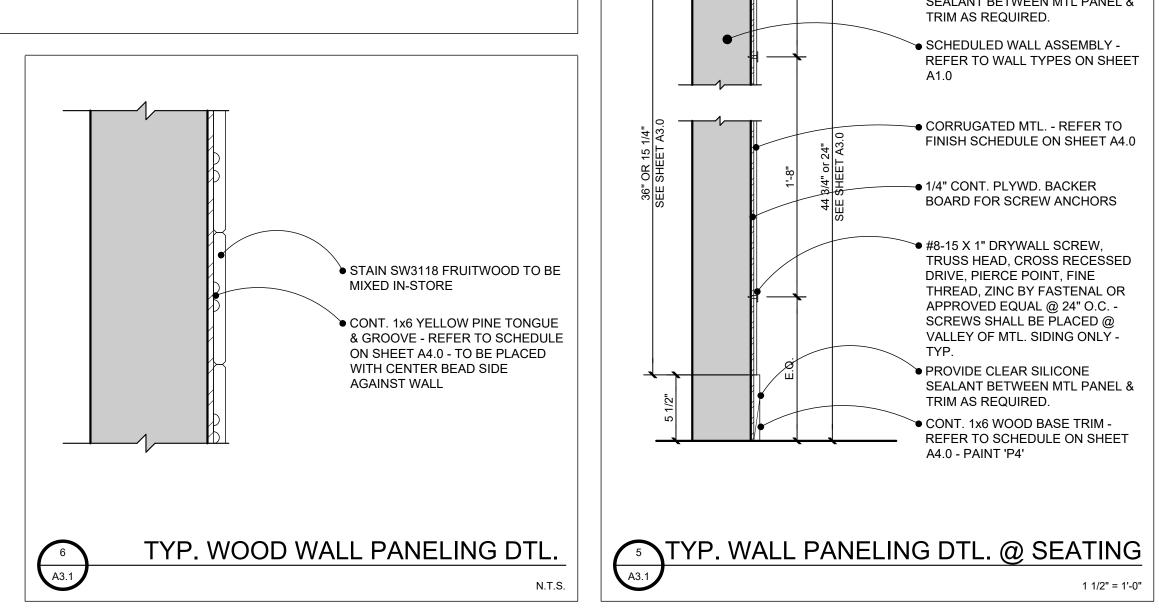
PROJECT NO.: 2021-0158 DRAWN BY: NAV CHECKED BY: JSS

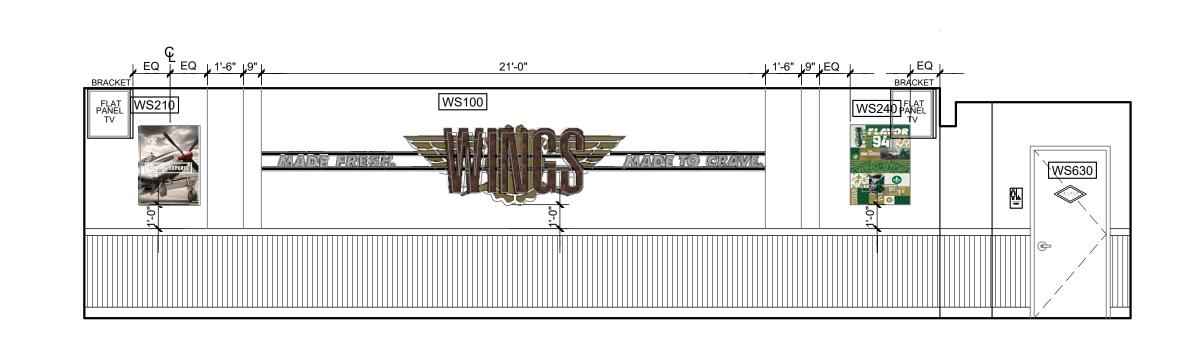
PERMIT & BID SET 06-16-21

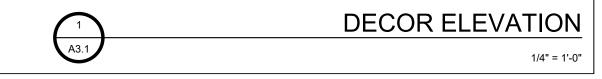
PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE: INTERIOR ELEVATIONS

ITEM	DESCRIPTION	MODEL	NSF		PLIER CONT.	INSTAL		REMARKS
WS100	WINGS BRAND SIGN	CUSTOM	N/A		-	-	X	1/2" WHITE PVC ROUTED LETTERS AND DIRECT PRINT BORDER STANDOFF. 1/4" AND 1/8" PVC FAUX WINGS CAN. 252" W X 36.5" T, WING SPAN 106.5".
WS150	WINGS BRAND SIGN / STACKED	CUSTOM	N/A	Х	-	-	Х	1/2" WHITE PVC ROUTED LETTERS AND DIRECT PRINT BORDER STANDOFF. 1/4" AND 1/8" PVC FAUX WINGS CAN. 252" W X 36.5" T, WING SPAN 106.5".
WS210	WING EXPERTS	CUSTOM	N/A	Х	-	-	Х	1/2" PVC WITH DIRECT TO PRINT GRAPHIC. RECESSED FRENCH CLEATS AND PAINTED RETURNS. 30" X 40"
WS220	SINCE 1994	CUSTOM	N/A	Х	-	-	Х	1/2" PVC WITH DIRECT TO PRINT GRAPHIC. RECESSED FRENCH CLEATS AND PAINTED RETURNS. 30" X 40"
WS230	HOW WE ROLL	CUSTOM	N/A	Х	-	-	Х	INTERIOR WAITING AREA SIGN. 1/2" PVC WITH DIRECT TO PRINT GRAPHIC. WITH 6 RESIN HEX-HEAD BOLTS MOUNTED TO ART. 30" X 40"
WS240	FLAVOR 94	CUSTOM	N/A	Х	-	-	Х	1/2" PVC WITH DIRECT PRINT GRAPHIC RECESSED FRENCH CLEATS AND PAINTED RETURNS. 31" X 48"
WS250	ENDLESS FLAVOR	CUSTOM	N/A	Х	-	-	Х	1/2" PVC WITH DIRECT PRINT GRAPHIC RECESSED FRENCH CLEATS AND PAINTED RETURNS. 30" X 40"
WS260	CAN'T STOP	CUSTOM	N/A	Х	-	-	Х	1/2" PVC WITH DIRECT PRINT GRAPHIC RECESSED FRENCH CLEATS AND PAINTED RETURNS. 40" X 30"
WS270	SAUCED & TOSSED	CUSTOM	N/A	Х	-	-	Х	1/2" PVC WITH DIRECT PRINT GRAPHIC RECESSED FRENCH CLEATS AND PAINTED RETURNS. 48" X 61.75"
WS310	AVIATION	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED FRENCH CLEATS AND PAINTED RETURNS, WOOD CLEATS TO HANG OVER STANOFFS. 76.25" X 46"
VS310A	AVIATION ALTERNATE	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED FRENCH CLEATS AND PAINTED RETURNS, WOOD CLEATS TO HANG OVER STANOFFS. 91.5" X 55.25"
WS350	MADE TO ORDER	CUSTOM	N/A	Х	-	-	х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED FRENCH CLEATS AND PAINTED RETURNS, WOOD CLEATS TO HANG OVER STANOFFS. 71" x 41.75"
VS350A	MADE TO ORDER ALTERNATE	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED FRENCH CLEATS AND PAINTED RETURNS, WOOD CLEATS TO HANG OVER STANOFFS. 79.75" x 47"
WS410	LEMON PEPPER	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED CLEATS AND PAINTED RETURNS. 24" X 26"
WS420	MANGO HABANERO	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED CLEATS AND PAINTED RETURNS. 24" X 26"
WS430	ORIGINAL HOT	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED CLEATS AND PAINTED RETURNS. 24" X 26"
WS440	LOUISIANA RUB	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED CLEATS AND PAINTED RETURNS. 24" X 26"
WS450	HICKORY SMOKED BBQ	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED CLEATS AND PAINTED RETURNS. 24" X 26"
WS460	GARLIC PARMESAN	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT ON 1/2" WHITE PVC WITH RECESSED CLEATS AND PAINTED RETURNS. 24" X 26"
WS500	MENU BOARD	CUSTOM	N/A	Х	-	-	Х	MENU BOARD WITH MOUNTING HARDWARE (NO GRAPHICS) -
WS510	FLAVOR BOARD	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT 'ZINC' BACKGROUND ON .20 MAGNET ROLL (MAGNET SIDE PRINT) AND DIRECT PRINT ARTON FERRO PAPER. 1/2" DIRECT PRINT PVC.
WS520	CHANGEABLE PROMO PLAQUES	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT 'ZINC' BACKGROUND ON .20 MAGNET ROLL 1/2" DIRECT PRINT PVC
WS530	KRAFT PAPER ROLL	CUSTOM	N/A	Х	-	-	Х	DIRECT PRINT KRAFT PAPER ROLL (24") ART ROLLED INWARD AND HUNG TO TEAR. 1-1/4" DIAMETER MALEABLE GAS PIPE PAINTED BLACK.
WS600	OWNER PLAQUE	CUSTOM	N/A	Х	-	-	Х	OWNERS SIGN (OPERATOR NAME SPECIFIC PER LOCATION)
WS610	DINE IN	CUSTOM	N/A	Х	-	-	Х	MOUNTED U-BRACKET PAINTED SATIN BLACK- 4" X 4" GALVANIZED BASE. 1/2" DIRECT PRINT PVC SIGN ATTACHED.
WS620	PICK UP	CUSTOM	N/A	Х	-	-	Х	AIRCRAFT CABLE AND CRIMPING FERRELS.1/2" DIRECT PRINT PVC SIGN ATTACHED WITH ROUTED HOLES.
WS630	RESTROOM SIGNS	CUSTOM	N/A	Х	-	-	Х	MEN AND WOMEN
WS640	UNISEX RESTROOM SIGN	CUSTOM	N/A	Х	-	-	Х	UNISEX
WS710	ARROW 36"	CUSTOM	N/A	Х	-	-	Х	INTERNALLY ILLUMINATED ARROW OPEN SIGN 36"
WS720	ARROW 36"	CUSTOM	N/A	Х	-	-	Х	INTERNALLY ILLUMINATED ARROW OPEN SIGN
WS730	ARROW 28"	CUSTOM	N/A	Х	-	-	Х	INTERNALLY ILLUMINATED ARROW OPEN SIGN 28.5"
WS740	ARROW 28"	CUSTOM	N/A	Х	-	-	Х	INTERNALLY ILLUMINATED ARROW OPEN SIGN 28.5"
WS810	PROPELLER	CUSTOM	N/A	Х	-	-	Х	-
WS820	PAPER TOWEL HOLDER	CUSTOM	N/A	X	-	-	Х	RESTROOMS

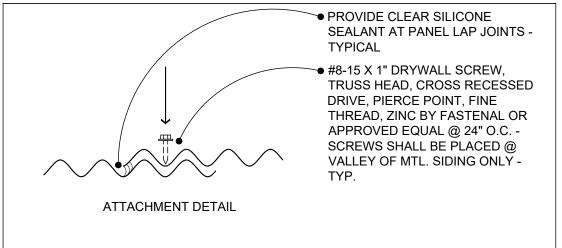


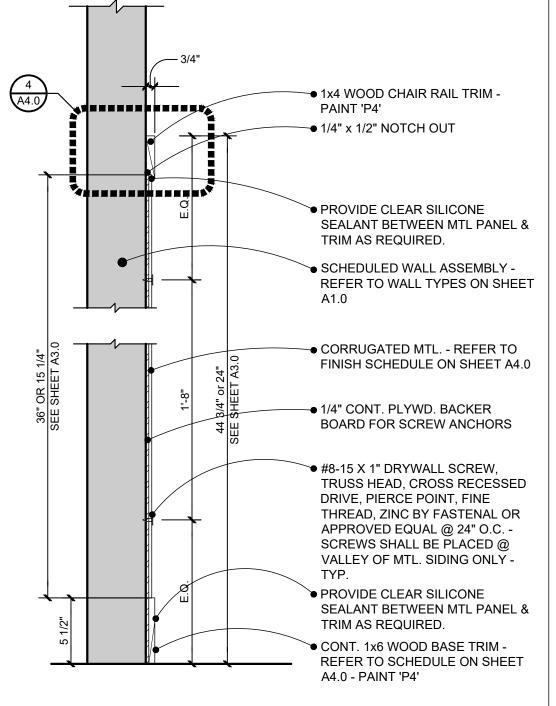




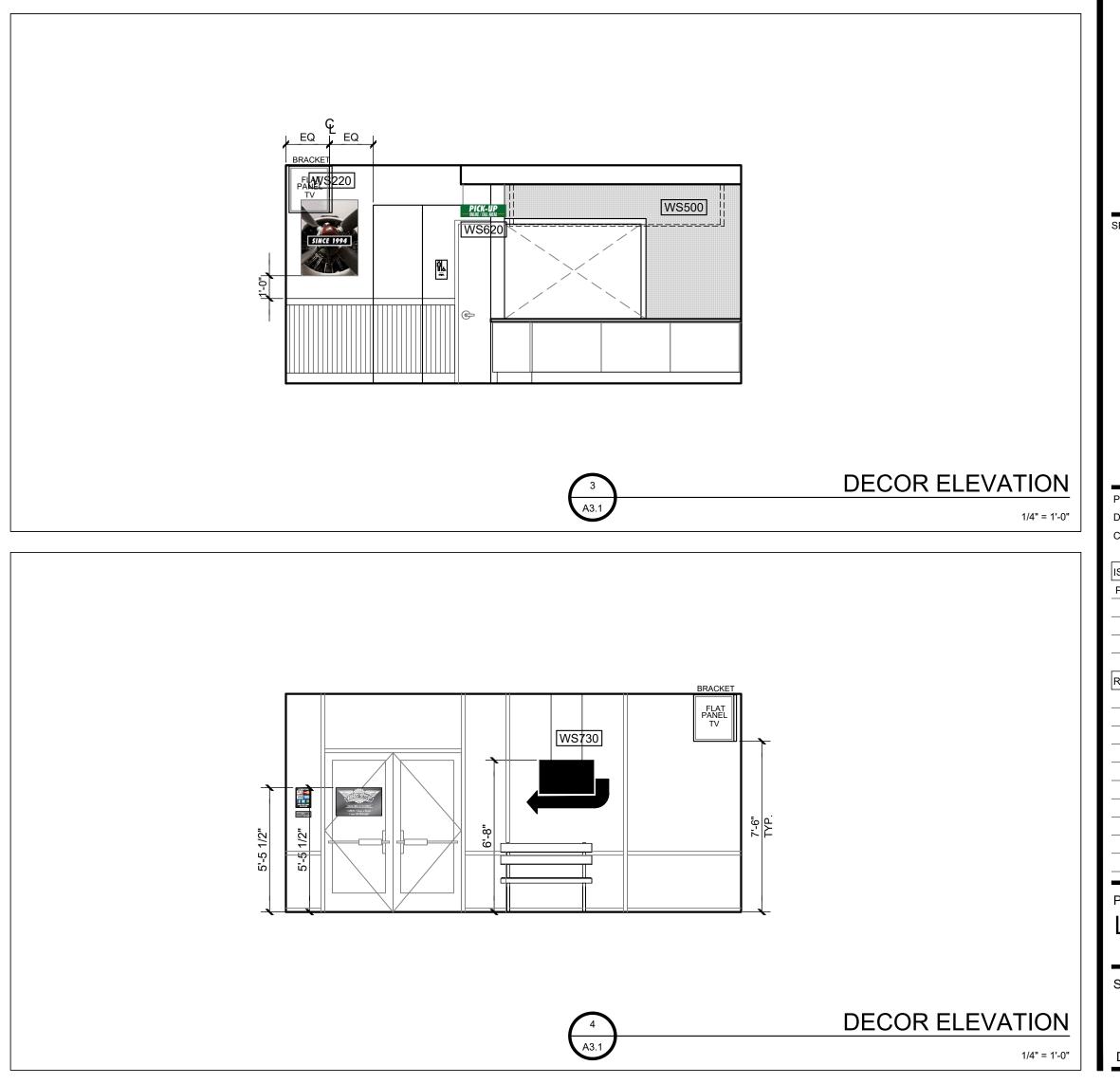


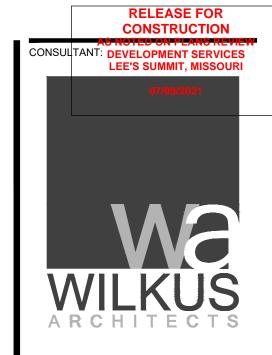
DECOR ELEVATION 1/4" = 1'-0"





1 1/2" = 1'-0"





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PROJECT INFORMATION:

MATTHEW M. WILKUS, ARCHITECT LICENSE NUMBER: 2019000244 EXPIRATION DATE: 12-31-21

DATE PROJECT NO.: 2021-0158 DRAWN BY: NAV CHECKED BY: JSS

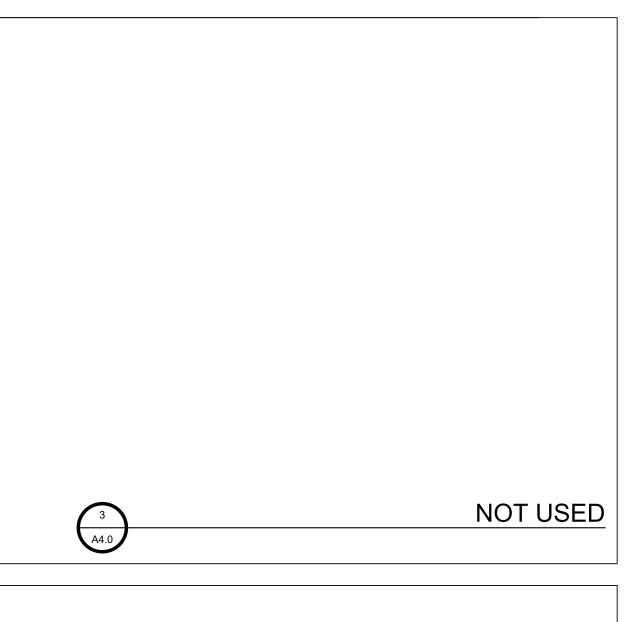
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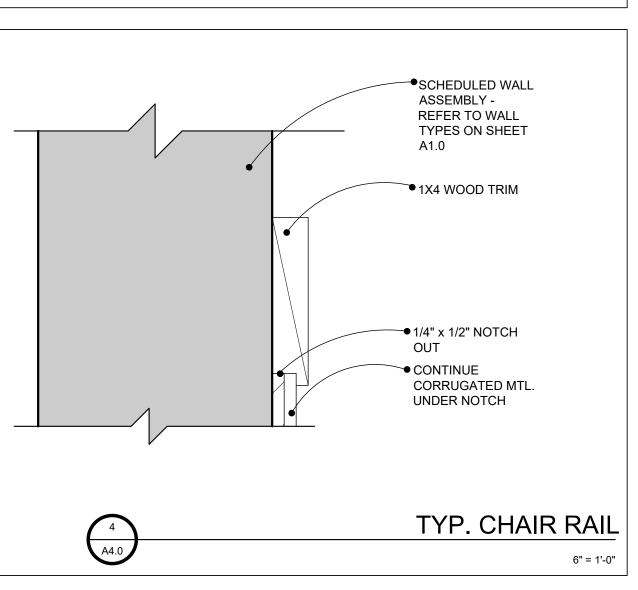
REVISION: DATE:

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

DECOR ELEVATIONS





NOT USED

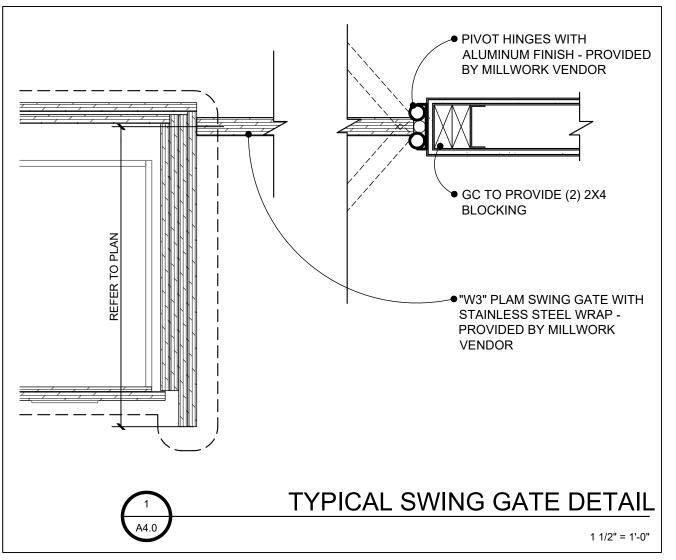
DELD VERIFY EXISTING DOOR CONDITIONS AND REUSE IF UBLE OCK HESE DOORS TO REMAIN UNLOCKED WHILE BUSINESS IS ED" OLD ULL BAR WITH PADDLE HANDLE ACTION KITCHEN HINGES TO DETAIL 1/A4.0 T W/ LEVER HAND OR REPLACE CYLINDER OR STRIKE GUARD PLATE OLD I 14 GA STEEL DIAMOND PLATE KICK PLATE ON INTERIOR SIDE	1 EA 1 EA 1 SET 1 EA 1 EA 1 EA 1 EA 1 EA
HESE DOORS TO REMAIN UNLOCKED WHILE BUSINESS IS ED" OLD ULL BAR WITH PADDLE HANDLE ACTION KITCHEN HINGES TO DETAIL 1/A4.0 T W/ LEVER HAND OR REPLACE CYLINDER OR STRIKE GUARD PLATE	1 EA 1 EA 1 SET 1 EA 1 EA 1 EA 1 EA 1 EA
T W/ LEVER HAND OR REPLACE CYLINDER OR STRIKE GUARD PLATE	1 EA 1 EA 1 EA 1 EA
OR STRIKE GUARD PLATE OLD	1 EA 1 EA 1 EA
THE REPORT OF THE PROPERTY OF	1 EA 1 EA
ED	
/ LOCK SET LEVER HANDLE "EN" / "WOMEN" (DECOR BY OWNER) ACCESSIBLE SIGN "MEN" / I" (BY CONTRACTOR) WALL STOP - REFER TO A1.0	1 SET 1 EA 1 EA 1 EA
	LOCK SET LEVER HANDLE EN" / "WOMEN" (DECOR BY OWNER) ACCESSIBLE SIGN "MEN" / " (BY CONTRACTOR)

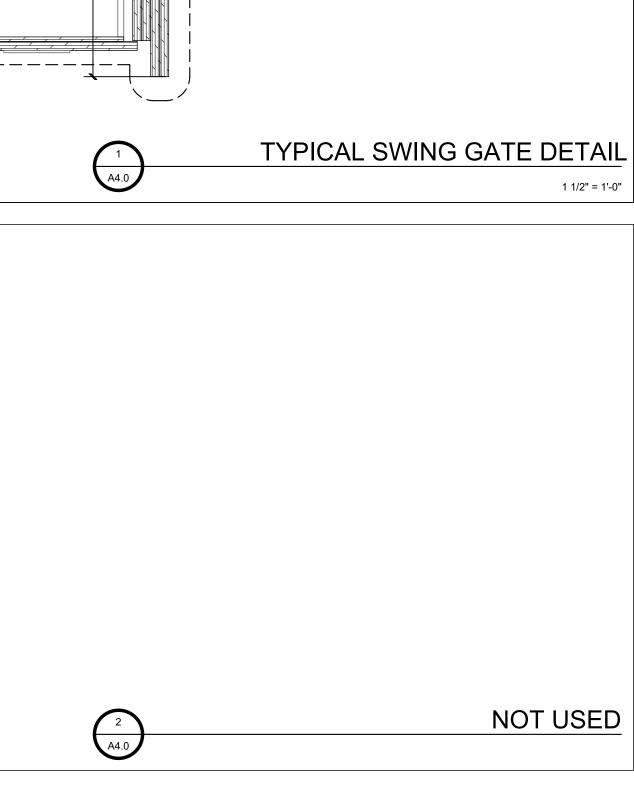
1. ALL HARDWARE NEW AND EXISTING SHALL BE IN ACCORDANCE WITH LOCAL AND STATE ACCESSIBILITY STANDARDS, AND AMERICANS WITH DISABILITY STANDARDS.

2. A READILY VISIBLE, DURABLE SIGN IS POSTED ON THE EGRESS SIDE OR ADJACENT TO THE DOOR STATING, "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED".

3. EGRESS DOORS TO BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR ANY REQUIRED SPECIAL KNOWLEDGE OR EFFORT.

4. EGRESS DOOR LOCK AND LATCHES SHALL COMPLY WITH ALL LOCAL AND STATE CODE REQUIREMENTS.





MARK	SIZE	DESCRIPTION	FRAME	NOTES	RATING	HARDWARE	
101	EXISTING	EXISTING ALUMINUM AND GLASS STOREFRONT	ALUM.	FIELD VERIFY EXISTING CONDITIONS	N/A	NUMBER 1	
101	EXISTING	EXISTING ALDMINOW AND GLASS STOKE I KONT	ALUIVI.	USE EXISTING HARDWARE IF POSSIBLE	IN/A	NOWIDER	
104	CUSTOM	SALES COUNTER MILLWORK GATE	WOOD	SUPPLIED BY OWNER, INSTALLED BY G.C.	N/A	NUMBER 2	
104	COSTON	SALES COONTEN WILL WORK GATE	WOOD	-	IN/A		
107	3'-0" x 7'-0" x 1 3/4"	NEW HOLLOW METAL (DAINTED)	METAL	PAINT INTERIOR SIDE P5	N/A	NUMBER 3	
107	3-0 X / -0 X 1 3/4	NEW HOLLOW METAL (PAINTED)	IVIETAL			NOMBER 0	
110	3'-0" x 7'-0" x 1 3/4"	NEW SOLID CORE WOOD (PAINT GRADE)	METAL	KNOCK-DOWN PRIMER GRADE FRAME	N/A	NUMBER 5	
110	3-0 x 7-0 x 1 3/4	NEW SOLID CORE WOOD (FAINT GRADE)	IVIETAL	PAINTED P4 ALL SIDES	IN/A		
111	3'-0" x 7'-0" x 1 3/4"	NEW SOLID CORE WOOD (PAINT GRADE)	METAL	KNOCK-DOWN PRIMER GRADE FRAME	N/A	NUMBER 5	
111	3-0 x 7-0 x 1 3/4	NEW SOLID CORE WOOD (FAINT GRADE)	IVIETAL	PAINTED P4 ALL SIDES	IN/A		
	1						

ROOM#	ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS	
101	ORDER	F1	F5	W6, W7, W9, W10	C1	-	
102	SEATING	F1	F5	W1, W6, W7, W9, W10, W11, W12	C1	-	
103	HALLWAY	F1	F5	W6, W9, W10	C1	-	
104	SALES	F2	F2	W7, W11	C2	REFER TO SHEET EQ2 FOR WALL TILE LOCATION	
105	COOKING	F2	F2	W2, W8	C2	-	
106	PREP	F2	F2	W2	C2	-	
107	JANITOR	F2	F2	W2	C2	-	
108	WALK-IN COOLER	F2	F2	REFER TO WALK-IN SPECIFICATIONS ON EQ1	-	EXTERIOR WALLS HAVE F2 AS BASE	
109	WALK-IN FREEZER	-	-	REFER TO WALK-IN SPECIFICATIONS ON EQ1	-	EXTERIOR WALLS HAVE F2 AS BASE	
110	MEN	F7	F7	W2	C2	REFER TO SHEET A3.0 FOR FINISH LOCATIONS	
111	WOMEN	F7	F7	W2	C2	REFER TO SHEET A3.0 FOR FINISH LOCATIONS	

ROOM FINISH SCHEDULE NOTES

1. REFER TO SHEET A2.0 FOR CEILING HEIGHTS

2. REFER TO SHEETS A1.1 FOR ADDITIONAL FLOOR FINISH NOTES

3. REFER TO SHEETS A3.0 AND EQ2 FOR PAINT AND FINISH MATERIAL LOCATIONS

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F1) EXISTING CONCRETE SLAB TO BE DYED: COLOR:DRIFTWOOD #1395

ALTERNATE: 20"X20" CMC ANTWERP BROWN, W/ MAPEI ULTRACOLOR PLUS FA, 07 CHOCOLATE GROUT, TILE LAID DIAGONAL F2) 6x6 QUARRY TILE (HARD, SMOOTH UNDER ALL EQUIPMENT AND WALKWAYS, NON ABSORBENT) CMC RED QUARRY TILE COVE BASE, CMC RED SMOOTH 6X6X1/2"QUARRY TILE, CMC RED ABRASIVE 6X6X1/2" QUARRY TILE, W/ MAPEI KERAPOXY IEG (INDUSTRIAL EPOXY GROUT), 47 CHARCOAL

F3) CMC ANTWERP BROWN 6X12 COVE BASE, W/ MAPEI ULTRACOLOR PLUS FA 07 CHOCOLATE GROUT

F4) CMC RETRO BLACK 6X8 COVE BASE, W/ MAPEI ULTRACLOR PLUS FA 07 CHOCOLATE GROUT F5) 1X6 WOOD BASE - PAINT P4

F6) 20"X20" CMC ANTWERP BROWN, W/ MAPEI ULTRACOLOR PLUS FA, 07 CHOCOLATE GROUT, TILE LAID DIAGONAL F7) 6x6 QUARRY TILE, CMC GRAY QUARRY TILE COVE BASE, W/ MAPEI KERAPOXY INDUSTRIAL EPOXY GROUT

W1) 1X6 TONGUE & GROOVE YELLOW PINE WITH CHAMFERED EDGES. 10'-12' LONG BOARDS - SANDED UP TO 220 GRIT. (1) COAT (MINWAX PERFORMANCE - SEMI TRANSPARENT STAIN FRUITWOOD SW3118 TO BE MIXED IN STORE) - (2) COATS OF MINWAX FAST DRYING POLYURETHANE CLEAR SATIN - PROVIDED & INSTALLED BY CONTRACTOR - REFER TO 6/A3.1 FOR INSTALLATION DETAIL

SATIN - PROVIDED & INSTALLED BY CONTRACTOR * SEE BELOW FOR CALIFORNIA STAIN SPECS

W2) F.R.P. (FIBERGLASS REINFORCED PANELING) PEBBLED FINISH - #P199, COLOR: WHITE

W3) PLASTIC LAMINATE, MATTE SURFACE- #ES2003T, COLOR: SIENNA ESSENCE W4) 20x20 CMC ANTWERP BROWN - 07 CHOCOLATE GROUT

W5) NOT USED

W6) WALL SURFACE FINISH- LEVEL 03 TEXTURED FINISH: ORANGE PEEL

W7) WALL SURFACE FINISH- LEVEL 04 SMOOTH FINISH: SMOOTH SURFACE W/ NO TEXTURE

W8) STAINLESS STEEL WALL PANEL- CUSTOM PANEL: SMOOTH SURFACE, REFER TO SHEET EQ2 FOR LOCATION - PROVIDED BY HOOD VENDOR W9) CORRUGATED METAL 1 1/4" X 1/4" PANEL PROFILE

W10) 1X CHAIR RAIL: CUSTOM

W11) CMC MEZCALAS GREEN 1X1 GLOSSY MOSAIC, W/ MAPEI ULTRACLOR PLUS FA, 93 WARM GRAY GROUT

W12) SCHLUTER STRIP: QUADEC-EB, BRUSHED STAINLESS STEEL

* IN CALIFORNIA ONLY, THE STAIN SPECS ARE THE FOLLOWING: MINWAX WATER BASED WOOD FINISH, CLEAR TINT BASE, COLOR- COLONIAL PINE

C1) 2X2 LAY-IN CEILING TILES W/ PRELUDE GRID SYSTEM- FINE FISSURED #1728 COLOR: BLACK W/ BLACK GRID; OR APPROVED EQUAL C2) 2X4 LAY-IN CEILING TILES W/ PRELUDE PLUS GRID SYSTEM- CLEAN ROOM VL #870, COLOR: WHITE; OR APPROVED EQUAL

C3) GYP. BD. - PAINTED W7, P5

PAINT SCHEDULE

P1) COLOR: CRAFTSMAN BROWN , COLOR NO: SW 2835, PROMAR 200 ZERO VOC SEMI-GLOSS

P2) COLOR: WINGSTOP BRICK RED, COLOR NO: CUSTOM, PROMAR 200 ZERO VOC SEMI-GLOSS P3) COLOR: PAVILION BEIGE, COLOR NO: SW 7512, PROMAR 200 ZERO VOC SEMI-GLOSS

P4) COLOR: 2016 WINGSTOP GREEN, PROMAR 200 ZERO VOC SEMI-GLOSS

P5) COLOR: EXTRA WHITE, COLOR NO: SW 7006, PROMAR 200 ZERO VOC SEMI-GLOSS

ADDITIONAL MATERIAL FINISH NOTES:

ON THE COVER SHEET, A0.0

1. ALL FINISH MATERIALS TO COMPLY W/ THE FLAME SPREAD CLASSIFICATION RATING AS SPECIFIED IN THE BUILDING CODES INDICATED

ADDITIONAL CONCRETE FLOOR FINISH NOTES:

THE G.C. SHALL INSPECT THE EXIST. FLOOR PRIOR TO ANY INSTALLATION PROCEDURES & NOTIFY WINGSTOP OF ANY SERIOUS DEFECTS W/ THE EXIST. FLOOR THAT WOULD WARRANT THE INSTALLATION OF A FLOOR LEVELING COMPOUND. THE LEVELING COMPOUND SHALL BE NOTED AS AN

ALTERNATE BID TO THE CONSTRUCTION CONTRACTOR.

MECHANICALLY GRIND FLOOR & EDGES W/ 50-HYBRID DIAMONDS TO BEGIN PROCESS OF PROFILING THE CONC. CLEAN & PATCH FLOOR.

MECHANICALLY GRIND FLOOR & EDGES W/ 100-HYBRID DIAMONDS TO BEGIN THE PROCESS OF PROFILING THE CONC. MASK OFF WALLS AND APPLY SCOFIELD FORMULA ONE LIQUID DYE CONCENTRATE TO FLOOR.

APPLY SCOFIELD FORMULA ONE LITHIUM DENSIFIER TO FLOOR. MECHANICALLY GRIND FLOOR & EDGES W/ 400/800-HYBRID DIAMONDS TO BEGIN PROCESS OF POLISHING THE CONC.

APPLY (1) ONE COAT OF SCOFIELD CONCRETE GUARD - BURNISH FLOOR W/ 1500 GRIT DIAMOND PADS. 9. APPLY SECOND COAT OF SCOFIELD FORMULA ONE GUARD & BURNISH W/ 3000 GRIT DIAMOND PADS.

ADDITIONAL QUARRY TILE FINISH NOTES:

. EDGE PROFILE @ QUARRY TILE - REFER TO DETAIL 5/A1.1

MATERIAL INFORMATION

CUSTOMER SERVICE FOR LOCAL INSTALLER AT THE NUMBER SPECIFIED ABOVE

FLOOR DYE
SCOFIELD CONCRETE PRODUCTS/ 1-800-800-9900 FORMULA ONE LIQUID DYE CONCENTRATE SEALED WITH FINISH HARDENER: FORMULA ONE LITHIUM DENSIFIER. A CERTIFIED SCOFIELD INSTALLER IS RECOMMENDED, CONTACT

REFER TO THE ADDITIONAL CONCRETE FLOOR FINISH NOTES. QUARRY TILE, WALL TILE & TILE COVE BASE & SETTING MATERIAL

CREATIVE MATERIALS CORPORATION (CMC) MAPEI or equal AMY BURKE / 518-713-5386

ABURKE@CREATIVEMATERIALSCORP.COM

WOOD BASE TRIM LIGHTLY SAND W/ 220 GRIT SANDPAPER & PAINT 'P4'

MARILITE / 330-343-6621 FRP SHALL BE PROVIDED ON ALL WALLS AT FULL HEIGHT IN THE SALES, COOKING,

PREPARATION, SCULLERY & JANITOR AREAS. (ALSO IN OFFICE AREA IF APPLICABLE)

ROLL-A-SHADE

TEL:951.245.5077 X 402 ESTIMATES@ROLLASHADE.COM

SHEER WEAVE 2390 (5%) V20 PEARL GRAY WITH DIGITALLY PRINTED WINGSTOP

CORRUGATED METAL PANELS RANDAL RETAIL 507 N. RADDANT RD. BATAVIA, IL 60510 TYLER LOGAN

tylerl@randalretail.com 630-761-0400

PANELS ARE TESTED FOR UL 790 CLASS A FIRE RESISTANCE RATING AND UL 2218 CLASS 4 HAIL IMPACT RESISTANCE.

SHERWIN WILLIAMS / 214-728-6696, REFERENCE PARENT CODE #3729 REFER TO SHEET A3.0 FOR LOCATIONS

WRI LIGHTING MELETIO LIGHTING JELLIS@METELIO.COM

PH: 214-352-3900

GREASE INTERCEPTOR - NATIONAL ACCOUNT INFORMATION

SCHIER NATIONAL STRATEGIC PRICING AGREEMENT #001078 PLEASE CONTACT: SEAN MOLEN - NATIONAL ACCOUNTS MANAGER SEAN.MOLEN@SCHIERPRODUCTS.COM

PH: 816-506-3203

PROJECT LOCATION: LEE'S SUMMIT, MO

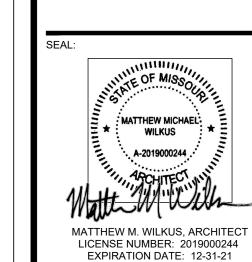
SHEET NUMBER / TITLE:



RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

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PROJECT NO.: 2021-0158

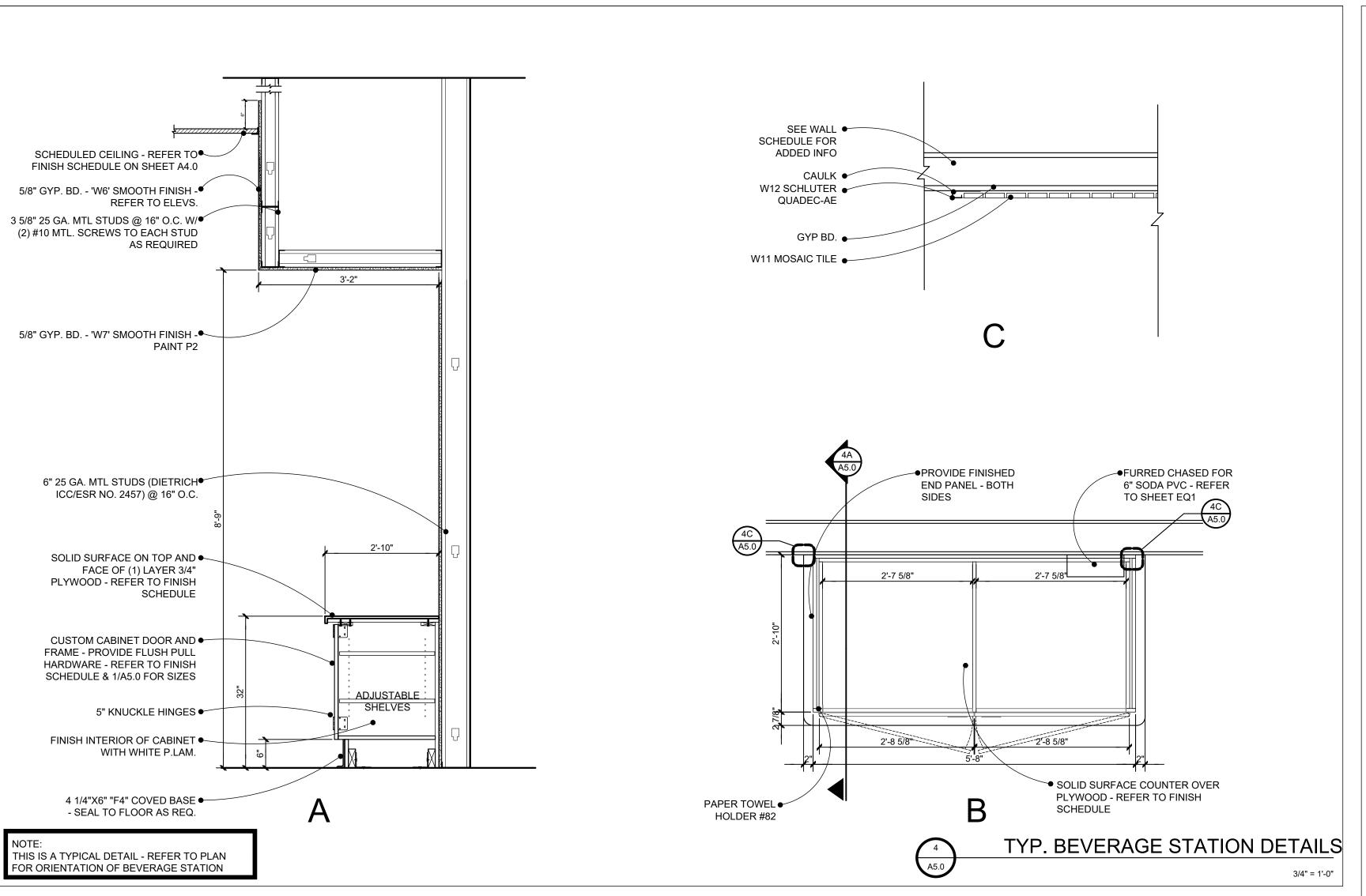
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CHECKED BY: JSS

PERMIT & BID SET

DATE

06-16-21



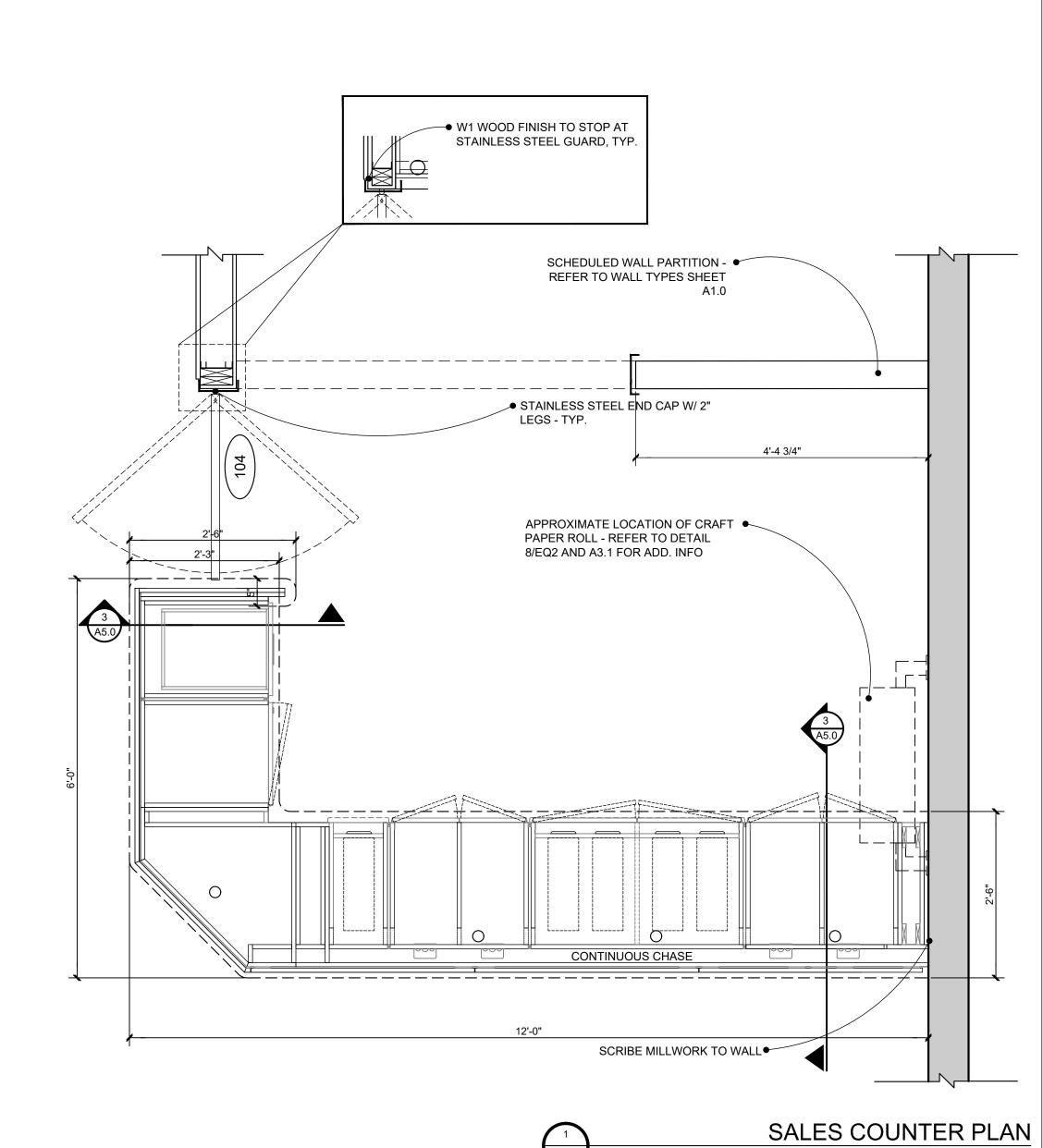


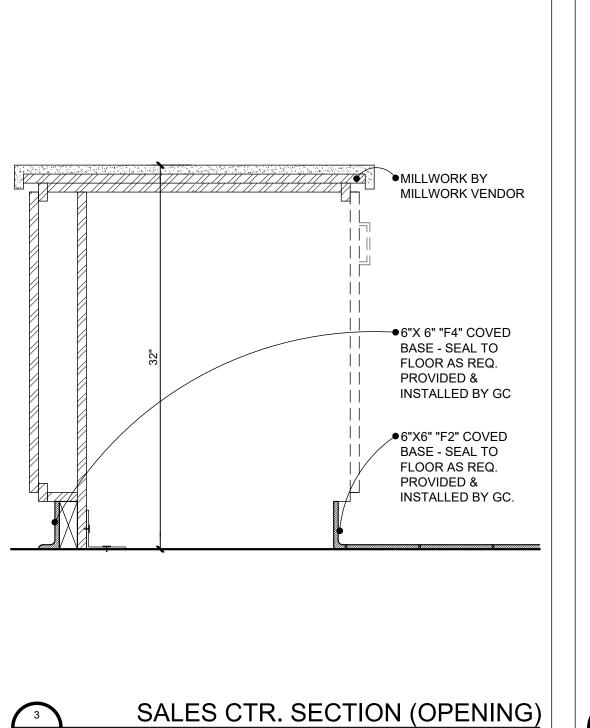
SALES COUNTER NOTES

1. REFER TO MANUFACTURER'S CUT-SHEETS FOR ALL EQUIPMENT PRIOR TO ANY CUT-OUTS FOR DATA, ELECTRICAL, SODA LINES, RECESSED CUP HOLDERS, OR ANY OTHER APPLICABLE ITEMS.

2. MILLWORK S.S. & SOLID SURFACE WILL BE PART OF THE MILWORK FIXTURE PACKAGE BY EQUIP VENDOR, GC TO ASSEMBLE, SEAM COUNTER TOP AND INSTALL







1 1/2" = 1'-0"

PROJECT LOCATION:
LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

A5.0

SALES COUNTER PLAN/DETAILS

3/4" = 1'-0"

RELEASE FOR CONSTRUCTION

CONSULTANT: DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

15 Ninth Aveune North, Hopkins, MN 55343 Phone: 952.941.8660/ www.wilkusarch.com

15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001

TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

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LICENSE NUMBER: 2019000244 EXPIRATION DATE: 12-31-21

06-16-21

PROJECT NO.: 2021-0158

DRAWN BY: NAV

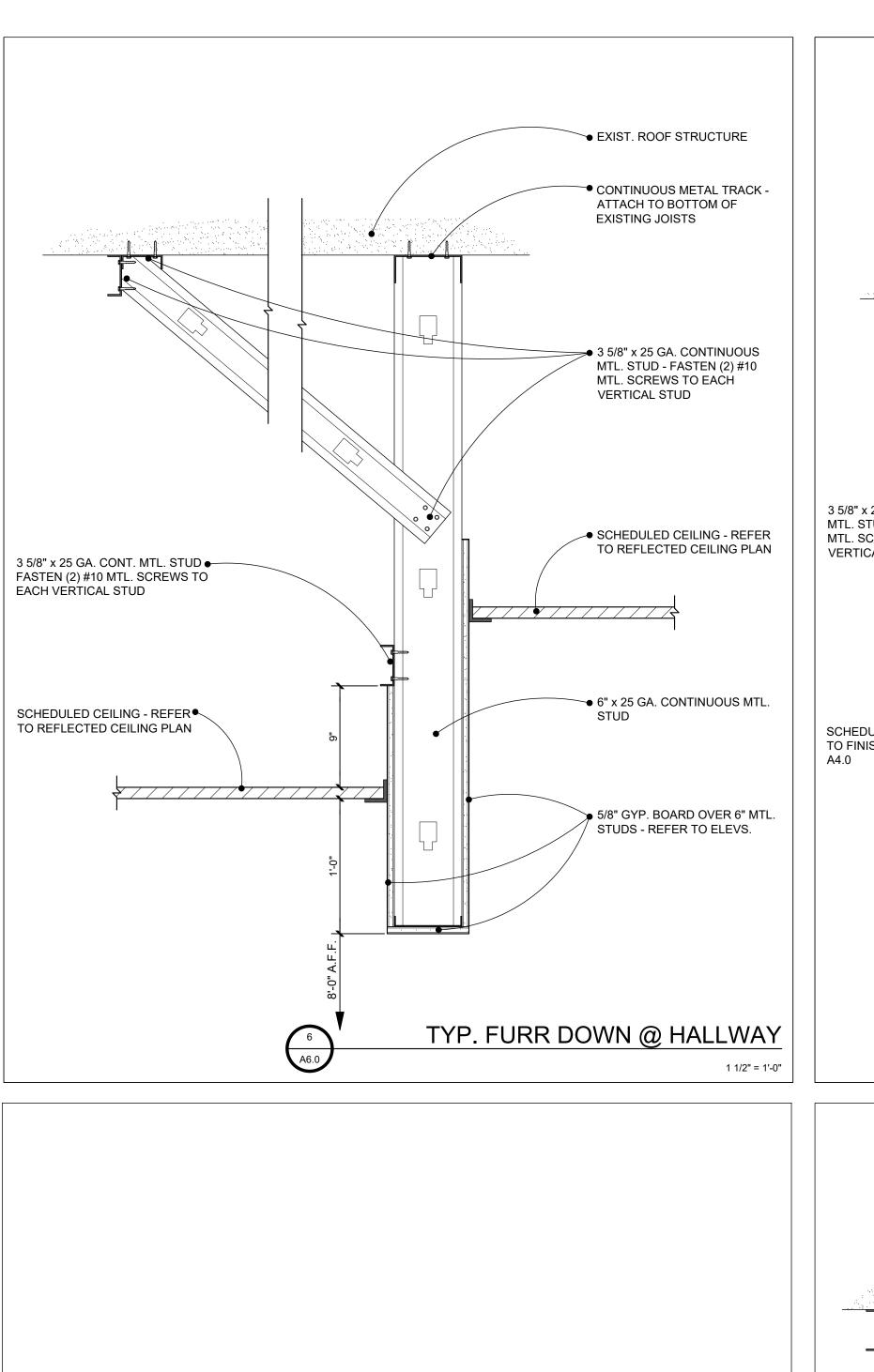
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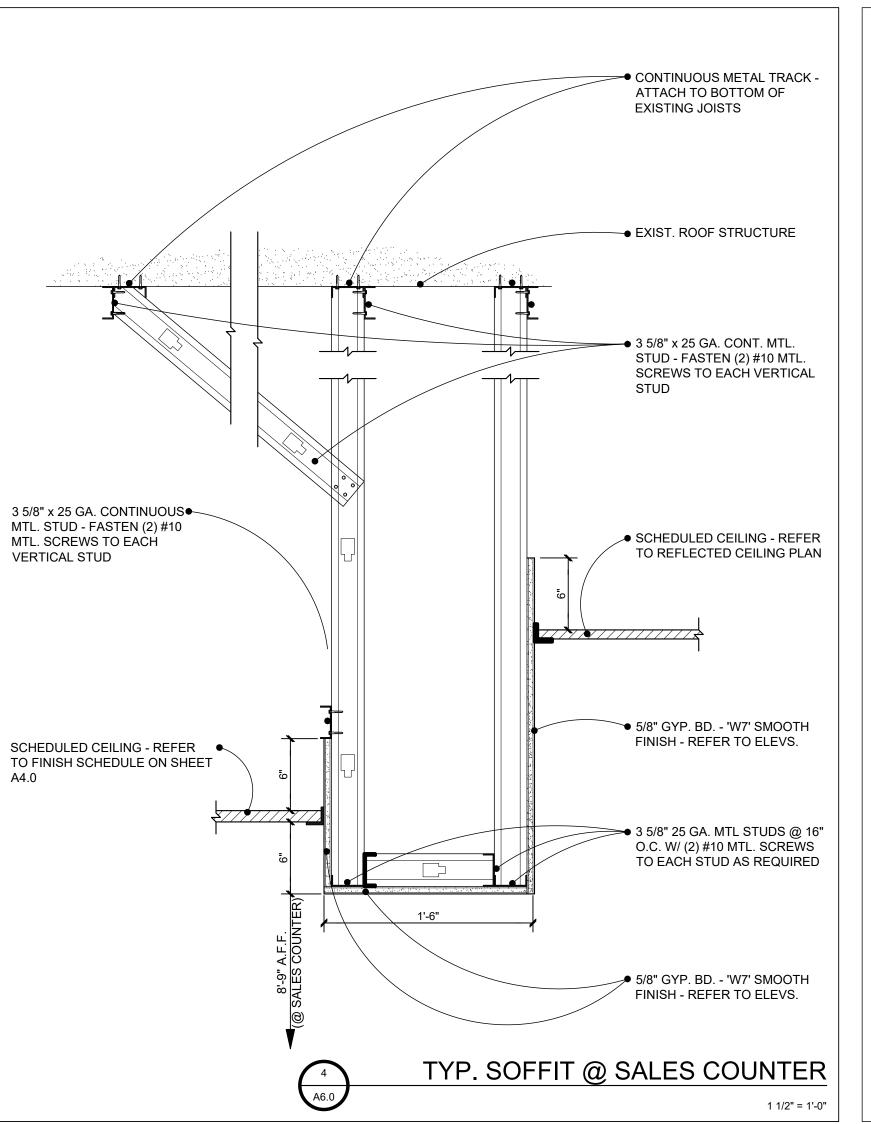
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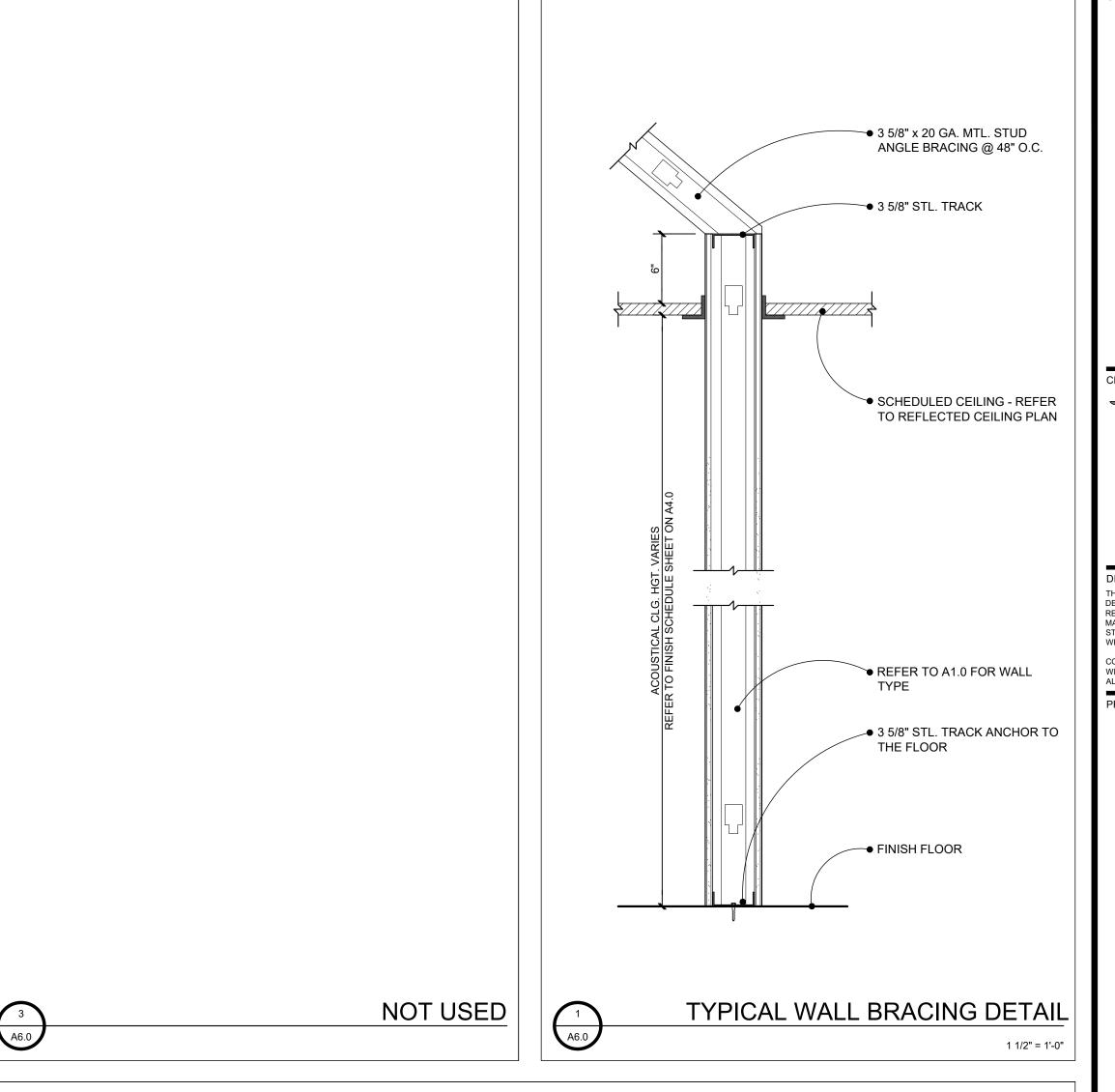
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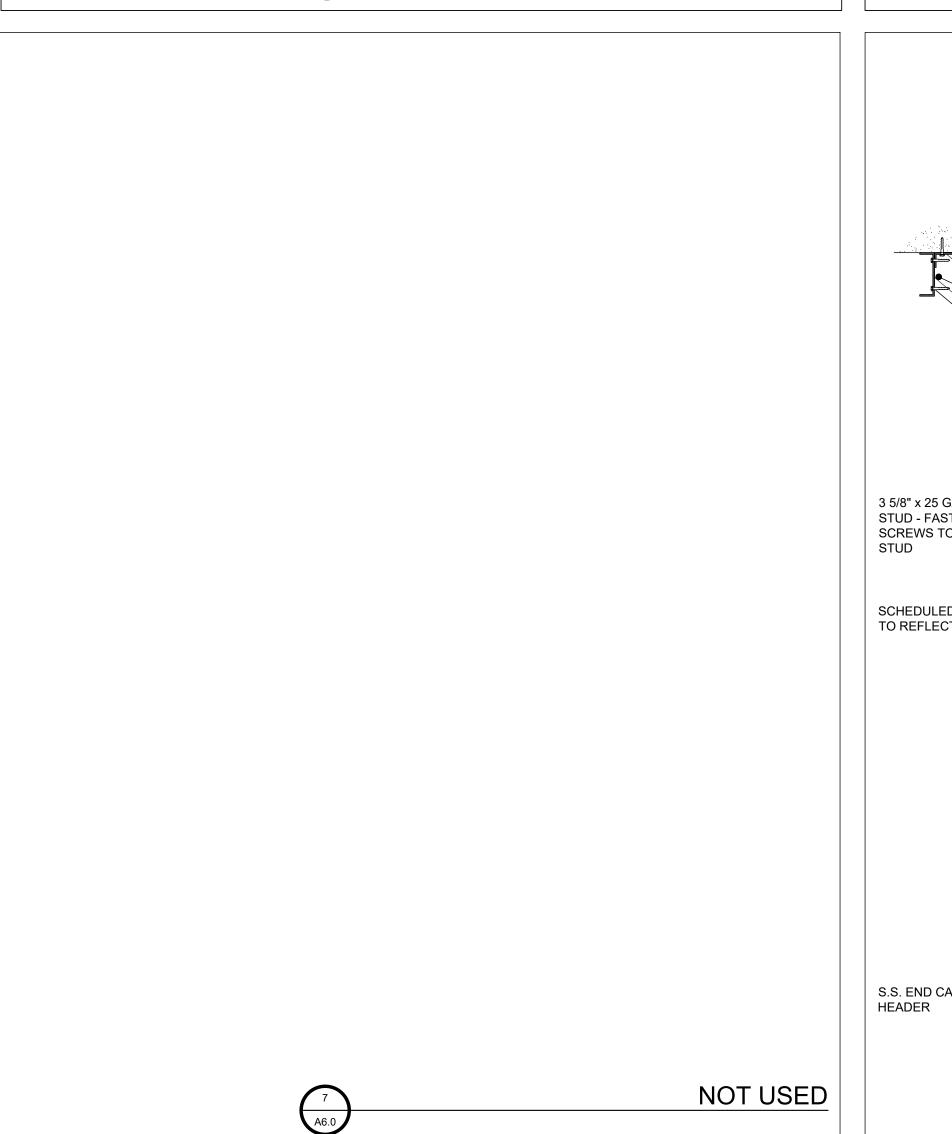
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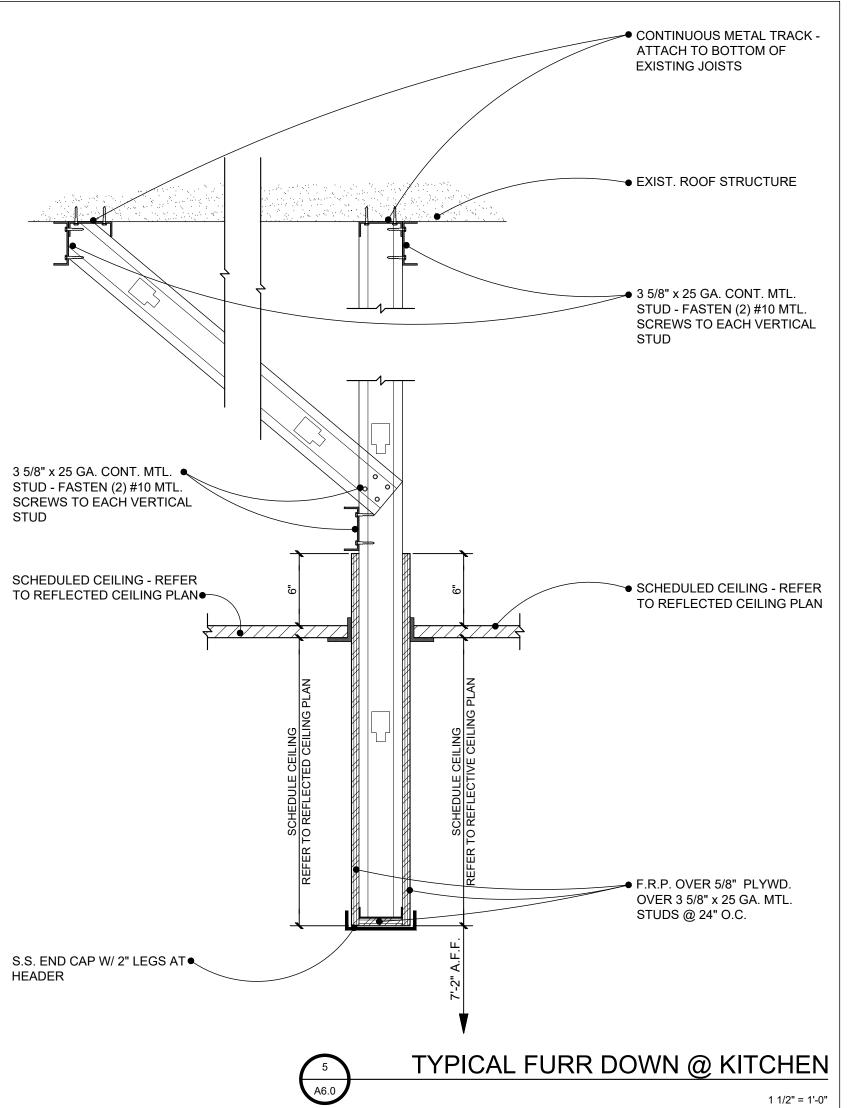
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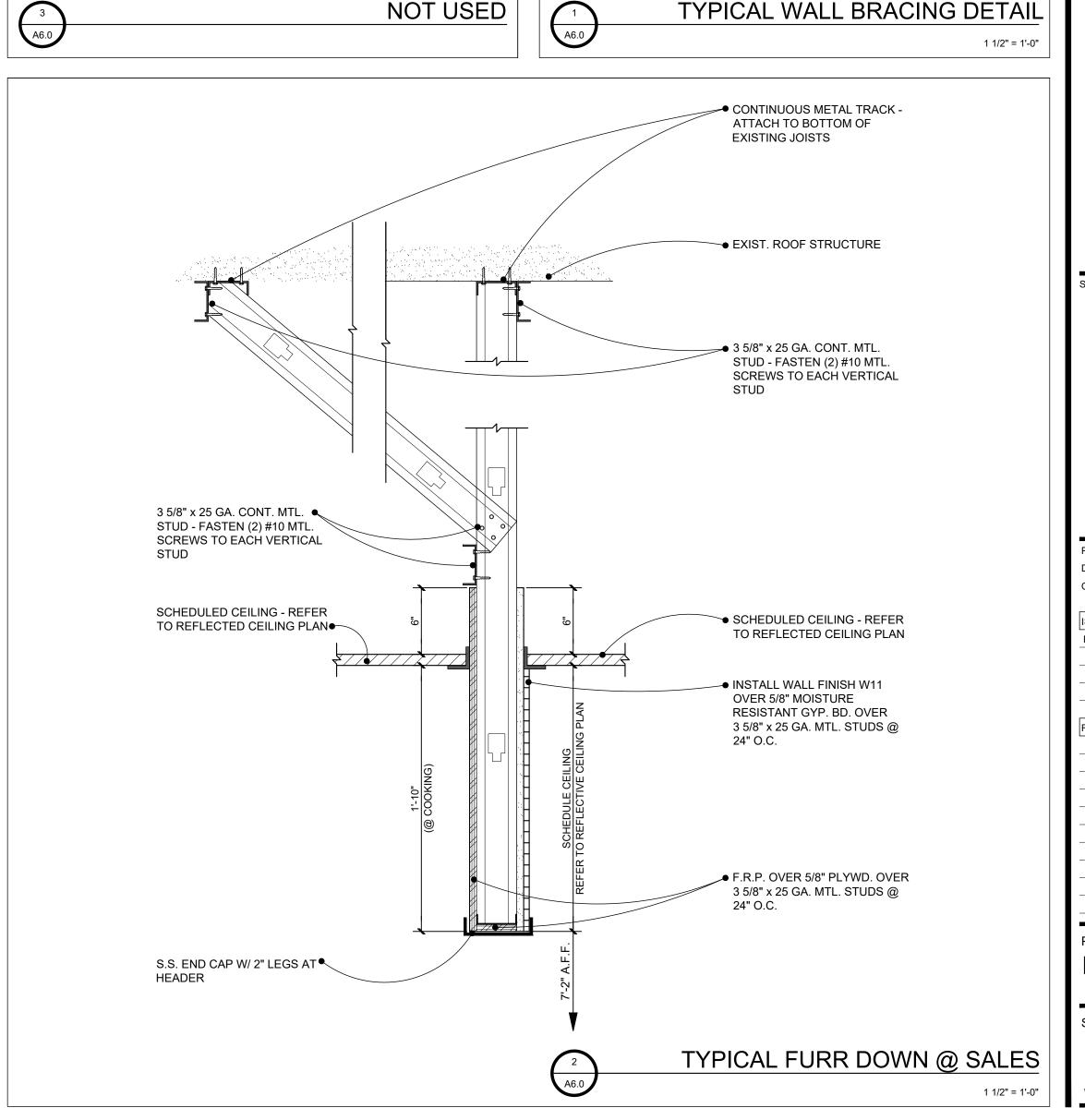














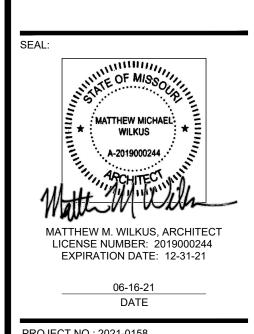


15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001 TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

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PROJECT INFORMATION:



PROJECT NO.: 2021-0158 DRAWN BY: NAV CHECKED BY: JSS DATE: PERMIT & BID SET 06-16-21

REVISION: DATE:

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

WALL SECTIONS & DETAILS

DESCRIPTION					OWNER	CONT.	COORD./SUPERVISED BY CONTRACTOR	
DOUBLE GLASS DOOR MERCHANDISER NOT USED SANDWICH/SALAD UNIT	GDM-33-HC-LD - SR48A-8	- -	- -	-	-	- X	-	115 VOLTS, 6.3 AMPS / WITH CASTORS / NOTE 09 - 115 VOLTS, 11.8 AMPS / WITH INTEGRAL SHELVING #38 / NOTE 09
1-DR. REACH-IN REFRIGERATOR 48" WOODEN BENCH	CR1S-FS CUSTOM	X X N/A	X X X	- -	- - X	X	-	115 VOLTS, 4.0 AMPS / WITH INTEGRAL SHELVING #38 / NOTE 09
HOOD FIRE ANSUL SUPPRESSION SYSTEM	CUSTOM	N/A	X	-	X	-	X	REF. TO HOOD DRAWINGS FIRE SUPPRESSION PERMITTED/ INSTALLED BY CAPTIVE AIR WITH (2) 18" DRAIN BOARDS, (2) 8" SIDE SPLASHES.
S.S. 3-COMPARTMENT SINK, 96"L. MOP SERVICE BASIN	CUSTOM MSB-2424	X	X	- X	-	X	-	VERIFY W/ LOCAL JURISDICTIONS FOR DRAIN BOARD & BOWL SIZE. WITH BUILT-IN ANTI SIPHON DEVICE
S.S. WORK TABLE 30"D. x 96"L. S.S. WORK TABLE 30"D. x 96"L.	CUSTOM CUSTOM	X	X	-	-	X	-	WITH DRAWER / WITH INTEGRAL SHELVING #38 / WITH CASTORS WITH UNDERSHELF / WITH INTEGRAL SHELVING #38
S.S. WORK TABLE 30"D. x 18"L HAND SINK W/ SIDE SPLASH (R & L)	CUSTOM 7-PS-66	X	X	-	-	X	-	24" TALL WITH (2) 8" HIGH SIDE SPLASHES
			X	-	-	X	-	WITH (2) 8" HIGH SIDE SPLASHES WITH SHOVEL LEVER/INSTALL 2" ABOVE SINK BACK SPLASH
ICE MACH. W/ STORAGE BIN ICE MACH. FILTER	KM-901MAH CUSTOM	X	X	-	-	X	- X	208 VOLTS, 13 AMPS / S.B. MODEL: B-500 / WITH 6" HIGH LEGS SUPPLIED BY EQUIPMENT VENDOR
TANKLESS WATERHEATER SWING GATE	RHEEM CUSTOM	X -	- X	X -	-	X	-	REFER TO PLUMBING PLANS FOR SPECIFICATIONS
NOT USED SOLSTICE SUPREME GAS FRYER	- SSH75	- X	- X	-	-	- X	-	- 105,000 BTU, 75 LBS (OIL CAPACITY) / WITH 6" CASTORS
SOLSTICE SUPREME GAS FRYER COOKING & HOLDING TIMER	SSH55 U160DKB7503	X	X	-	-	X		80,000 BTU, 40-50 LBS (OIL CAPACITY) / WITH 6" CASTORS
SOLSTICE SUPREME FILTER STEAM TABLE PAN RACK & COVER	SFSH75 1509/PRC 12	X	X	-	- X	X	- X	120 VOLTS, 6.2 AMPS / ITEM IS AN INTEGRAL PART OF THE FRYERS QUANTITY: 02 / NOT INDICATED ON PLAN
NOT USED NOT USED	-	-	-	-	-	-	-	-
24" x 30" TABLE & BASE 30" x 42" TABLE & BASE	CUSTOM CUSTOM	N/A N/A	X	-	-	X	-	-
ACCESSIBLE 30" x 42" TABLE & BASE WOOD CHAIR	CUSTOM 6305P	N/A N/A	X	-	-	X		-
ICED TEA BREWER & URNS ICED TEA URNS	CUSTOM CUSTOM	X	X	-	X	-	X X	120 VOLTS, 13.8 AMPS
SLIM-JIM TRASH RECEPTACLE SANITARY NAPKIN RECEPTACLE	8323G4 1102	X	X	-	-	X		- -
TRASH RECEPTACLE BEVERAGE / CONDIMENTS COUNTER	MODEL VARIES CUSTOM	X N/A	X	-	-	X	- -	- PROVIDED OWNER AND INSTALLED BY CONTRACTOR
SHORTENING SHUTTLE 6-VALVE SELF-SERVE SODA SYSTEM	SS-611-T DURAFLEX 150	X	X	-	- X	X -	- X	ITEM NUMBER NOT INDICATED ON EQUIPMENT PLAN 115 VOLTS, 3 AMPS / 6-VALVE
LEGACY DISPENSER FILTER CARBONATOR	- N/A	X N/A	X	-	X	-	X X	SUPPLIED BY COCA COLA PRODUCTS
BIB FLEX RACK SYSTEM CO2 SYSTEM	44239 CARBO-MIZER 450	Х	X	-	X	-	X X	WITH 6" HIGH LEGS -
SOLID SHELVES DRY STORAGE SHELVING	CUSTOM EG01.00	X	X	-	-	X	-	2 ROWS INTEGRAL W/ #03 & 10 REFER TO EQ.2 FOR HEIGHT REFER TO EQUIPMENT PLAN FOR SIZES AND NUMBER OF TIERS
DUNNAGE RACK (PRODUCE STAND) SCULLERY SHELVING (2 ROWS)	DR362012 EG01.00	X	X	-	-	X	-	- 2 ROWS OF 18" x 48" (TOP), 2 ROWS OF 18" x 48" (BOTTOM)
12'-0" TYPE 1 EXHAUST HOOD S.S. WORK TABLE 28" (FRY TABLE)	ND SERIES CUSTOM	X	X	-	-	X	-	NOTES 05, 06, 07 - VERIFY TYPE, SIZE & SERIES AGAINST HOOD DRAWING
BROOM & MOP RACK FIRE EXTINGUISHER	40731 REFER NOTE 03	X N/A	X -	- X	-	X	-	- CLASS: K (AT HOOD), CLASS: 2A10BC (STANDARD)
POINT-OF-SALE SYSTEM SMARTRACK 12U WALL-MOUNT RACK	RZ-X750 SRW9U	N/A X	X	-	X	-	X	NOTE 11
POINT-OF-SALE EQUIPMENT SAFE & STAND	- P060413-03	N/A N/A	X X	-	X -	- X	X X	WALL MOUNTED MANAGER STATION MOUNTED ON BASE AS REQUIRED / COORDINATE TYPE WITH OWNER
STEREO (AMP.) RECEIVER SATELLITE RECEIVER	MODEL VARIES MODEL VARIES	N/A N/A	X	-	X	-	X	PROVIDED AND INSTALLED BY OWNER PROVIDED AND INSTALLED BY OWNER
NOT USED NOT USED	-	-	-	-	-	-	- -	- -
POS COUNTER POS SHROUD	CUSTOM CUSTOM	N/A N/A	- -	-	-	- X	-	PROVIDED OWNER AND INSTALLED BY CONTRACTOR PROVIDED OWNER AND INSTALLED BY CONTRACTOR
NOT USED EXTERIOR BUILDING SIGNAGE 'WINGSTOP'	- CUSTOM	- N/A	X	-	- X	-	- X	PROVIDED AND INSTALLED BY THE SIGN VENDOR.
T.V., WALL BRACKET & STAND HAND SOAP DISPENSER	MODEL VARIES S4025	N/A N/A	X	-	-	X	-	-
NOT USED NOT USED	-	-	-	-	-	-	-	- -
PAPER TOWEL DISPENSER NOT USED	T1290WS -	N/A -	- -	-	-	-	-	-
36" x 1 1/2" GRAB BAR 42" x 1 1/2" GRAB BAR	B-6106 B-6106	N/A N/A	-	X	-	X	- X -	-
TOILET PAPER DISPENSER GREASE INTERCEPTOR	8735020 MODEL VARIES	N/A N/A	- -	- X	-	X	X -	REFER PLUMBING DRAWINGS FOR SPECIFICATIONS
NOT USED WALL MOUNTED MIXING FAUCET	CUSTOM	- X	X	-	-	X	-	-
WIRE WALL SHELVING COOLER DUNNAGE RACK	METRO DR362012	X	X	-	-	X	-	REFER TO EQ1 FOR SIZE REFER TO EQUIPMENT PLAN FOR SIZES & MOUNTING HEIGHTS FILEDS HIGH DEFER TO FOUNDMENT PLAN FOR SIZES
COOLER SHELVING WALK-IN COOLER	EG01.00 CUSTOM	X	X	-	- - -	X	- - - V	5 TIERS HIGH, REFER TO EQUIPMENT PLAN FOR SIZES NOTE 09 / WSPROTO-1
STOREFRONT VINYL GRAPHICS KNIFE HOLDER	CUSTOM 2918P	N/A X	X	-	- X	- X	X -	- - -
TO-GO RACK TICKET RAIL	CUSTOM	X X	X	-	-	X	-	18x36, 4 TIER WITH SOLID SHELVES AND 6" CASTERS -
S.S. 2-COMPARTMENT SINK, 60"L.	CHH-104 CUSTOM	N/A X	X	-	-	X	-	WITH (1) 18" DRAIN BOARDS, (2) 8" SIDE SPLASHES WITH OPTIONAL LID COVERS. VERIFY W/ LOCAL JURISDICTIONS FOR DRAIN BOARD & BOWL SIZE. SINGLE SHELF ABOVE PREP SINK
DRY STORAGE WIRE SHELVING COMMERCIAL MOP BUCKET	EG01.00 7580-88	X N/A	X	-	-	X	-	REFER TO EQUIPMENT PLAN FOR SIZES ITEM NOT INDICATED ON EQUIPMENT PLAN
24" OFFICE BAR STOOL NOT USED	4202P -	N/A -	X -	-	-	- X	-	-
CONDIMENT DISPENSER NOT USED	CUSTOM -	X -	- -	-	-	- X	-	-
NOT USED REACH-IN FREEZER	- CF1S-FS	- X	- X	-	-	- X	-	115 VOLTS, 9.0 AMPS / WITH CASTORS / NOTE 09
NOT USED S.S. STAND CONVECTION OVEN	- SK2731U	- X	- X	-	-	X	-	OVEN STAND WITH WHEELS
CONVECTION OVEN NOT USED NOT USED	E31D4 -	- -	- -	-	-	- X	-	208V, 14 AMPS / NEMA 6-15P CORDSET FITTED / NOTE 10
NOT USED NOT USED VERTICAL GRAB BAR	- - B-6106	- - N/A	-	- - X	-	- - X	- - -	-
MANAGER'S DESK NOT USED	CUSTOM	X -	X	X	-	X	- - -	COORDINATE WITH EQUIPMENT MANUFACTURER
NOT USED NOT USED NOT USED	<u>-</u> -	-	-	-	-	-	- - -	 - -
NOT USED NOT USED NOT USED	- - -	-	-	- -	-	-	- - -	 - -
STAINLESS STEEL CORNER GUARD STAINLESS STEEL END CAP	-	N/A N/A	-	X	-	X	-	 - -
NOT USED DARPRO COOKING OIL COLLECTION	B.O.S.S.	-	- - V	-	-	-	-	- - _
DAN NO COOKING OIL COLLECTION	ט.ט.ס.ס.	Х	X	-	-	X	-	 -

EQUIPMENT LEGEND NOTES:

1. FLAT PANEL TV DISPLAY WALL MOUNTING BRACKET & MONITOR BRAND SELECTION TO BE DETERMINED BY OWNER. CONTRACTOR TO COORDINATE ITEM #58 WITH OWNER FOR INSTALLATION.

2. THE OWNER SHALL PROVIDE WALL MOUNTED DECOR ITEMS. THESE ITEMS ARE TO BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THE DELIVERY AND INSTALLATION OF ALL DECOR ITEMS WITH THE OWNER. REFER TO A3.1

3. THE CONTRACTOR SHALL VERIFY WITH ALL LOCAL AGENCIES QUANTITY AND LOCATION OF ALL FIRE EXTINGUISHERS.

4. ALL KITCHEN EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE NATIONAL SANITATION

5. THE EXHAUST HOOD, EXHAUST FAN, EXHAUST DUCT, EXHAUST DUCT FIRE WRAP AND MAKE-UP AIR FAN SHALL BE SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. THE

6. THE EXHAUST HOOD FIRE SUPPRESSION SYSTEM SHALL BE SUPPLIED AND INSTALLED BY THE OWNER. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE EMERGENCY GAS SHUT-OFF VALVE

MAKE-UP AIR DUCT SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.

7. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THE DELIVERY OF ALL KITCHEN EQUIPMENT WITH THE EQUIPMENT VENDOR.

8. THE CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS REQUIRED FOR THE OWNER PROVIDED SIGNAGE.

9. ALL SPECIFIED REFRIGERATION UNITS SHALL BE SELF-CONTAINED AND SELF EVAPORATING. 10. NO GREASE LADEN FOODS SHALL BE PREPARED IN THE CONVECTION OVEN (ITEM #87), IT IS USED FOR BAKING ROLLS ONLY.

11. CONTACT SMARTRACK 9U WALL-MOUNT RACK SUPPLIER FOR ADDITIONAL INFORMATION: CHRIS IANNUZZI OF IT SAVVY (630) 396-6315

EQUIP. PLAN NOTES

2. TELEPHONE SERVICE SHALL BE (3) THREE LINES OF SERVICE AS FOLLOWS:

A. LINE 1 SHALL BE PRIMARY TELEPHONE LINE. B. LINE 2 SHALL BE FOR ROLL-OVER TELEPHONE LINE C. LINE 3 SHALL BE FAX AND DATA LINE.

3. THE GENERAL CONTRACTOR SHALL PROVIDE THE MOUNTING OF TRANSFORMERS AND FINAL ELECTRICAL CONNECTION OF THE OWNER PROVIDED AND INSTALLED INTERIOR AND EXTERIOR BUILDING SIGNAGE. ALL SIGNS SHALL BE ON INDIVIDUAL CIRCUITS WITH DEDICATED GROUNDS.

4. THE FLOOR SINK UNDER THE 3-COMPARTMENT SINK IS USED FOR THE PLUMBING HOSE BIB.

5. COOKING AREA PROTECTION SYSTEM SHALL BE SUBMITTED FOR PLAN REVIEW UNDER A SEPARATE PLAN CHECK AND

NOTE: EXTERIOR SIGNAGE SHALL BE SUBMITTED UNDER A SEPARATE PLAN CHECK REVIEW AND PERMIT PROCESS.

EQUIP. PLAN LEGEND

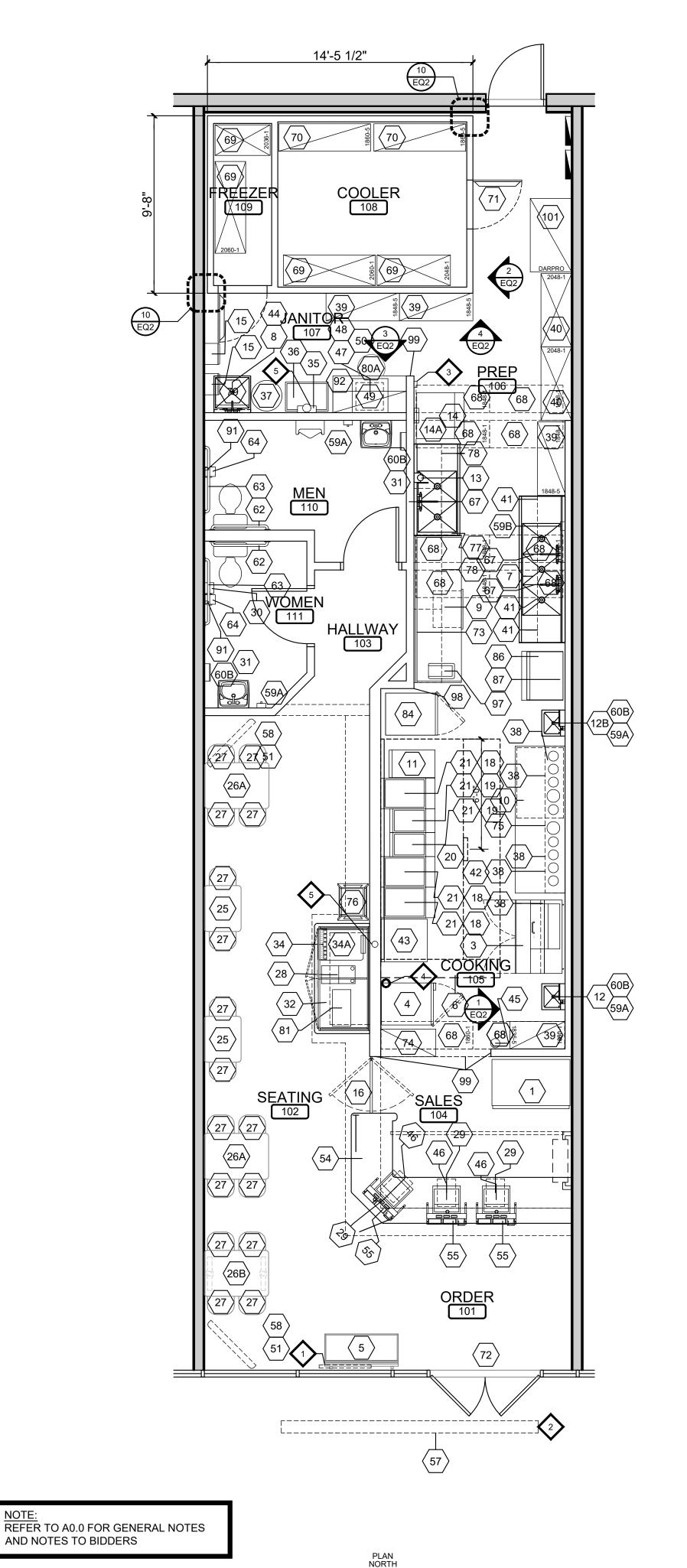
- 1> PROVIDE DEDICATED CIRCUIT AND GROUND 12'-0" A.F.F. ABOVE SOFFIT FOR LED SIGNS - TYPICAL - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- 2 PROVIDE DEDICATED CIRCUIT AND GROUND WITH CIRCUIT TIMER FOR EXTERIOR BUILDING SIGN - TYPICAL - VERIFY LOCATION WITH SIGN VENDOR - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- (3) REMOTE ANSUL PULL STATION VERIFY LOCATION WITH LOCAL FIRE MARSHAL
- 4 GAS SERVICE CONNECTION REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- 5 6" P.V.C. BEVERAGE CONDUIT RUN IN CEILING WITH 6" 90's AND 6" P.V.C. IN PARTITIONS - REFER TO DETAIL 7/EQ2 FOR

WALK-IN COOLER/FREEZER **SPECIFICATIONS**

COMPONENT	DESCRIPTION
INSULATION:	FOAMED IN-PLACE U.L. LISTED, CLASS 1 URETHANE FOAM INSULATION WITH A FLAME SPREAD RATING OF LESS THAN 25, AND SMOKE DENSITY OF LESS THAN 450 - WGEB TESTED IN ACCORDANCE TO A.S.T.M. E84 (U.L. 723)
FLOOR:	FLOOR, WALL, AND CEILING PANELS: 4" THICK HIGH DENSITY PRE-FABRICATED FRAME - N.S.F. COVED, STEP-UP @ FREEZER FLOOR ONLY
FINISH:	INTERIOR: 26 GA. STUCCO EMBOSSED GALVALUM EXTERIOR: 26 GA. STUCCO EMBOSSED GALVALUM FLOOR FINISH: #10 SMOOTH ALUMINUM
DOORS:	(1) 34" x 78" FLUSH-IN FITTING COOLER DOOR (1) 30" x 72" FLUSH-IN FITTING FREEZER DOOR

1. INSTALLATION INSTRUCTIONS FOR THE WALK-IN COOLER/FREEZER SHALL BE ON THE JOBSITE FOR THE LOCAL BUILDING OFFICIAL

2. PROVIDE CP 25WB+ FIRE BARRIER SEALANT CAULK OR FB-3000 W/T FIRE BARRIER SEALANT FOR ANY PENETRATIONS INTO THE INSULATED PANELS



CONSTRUCTION CONSULTANT: DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

RELEASE FOR

15 Ninth Aveune North, Hopkins, MN 55343 Phone: 952.941.8660/ www.wilkusarch.com



15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001 TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

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MATTHEW M. WILKUS, ARCHITECT

LICENSE NUMBER: 2019000244 EXPIRATION DATE: 12-31-21

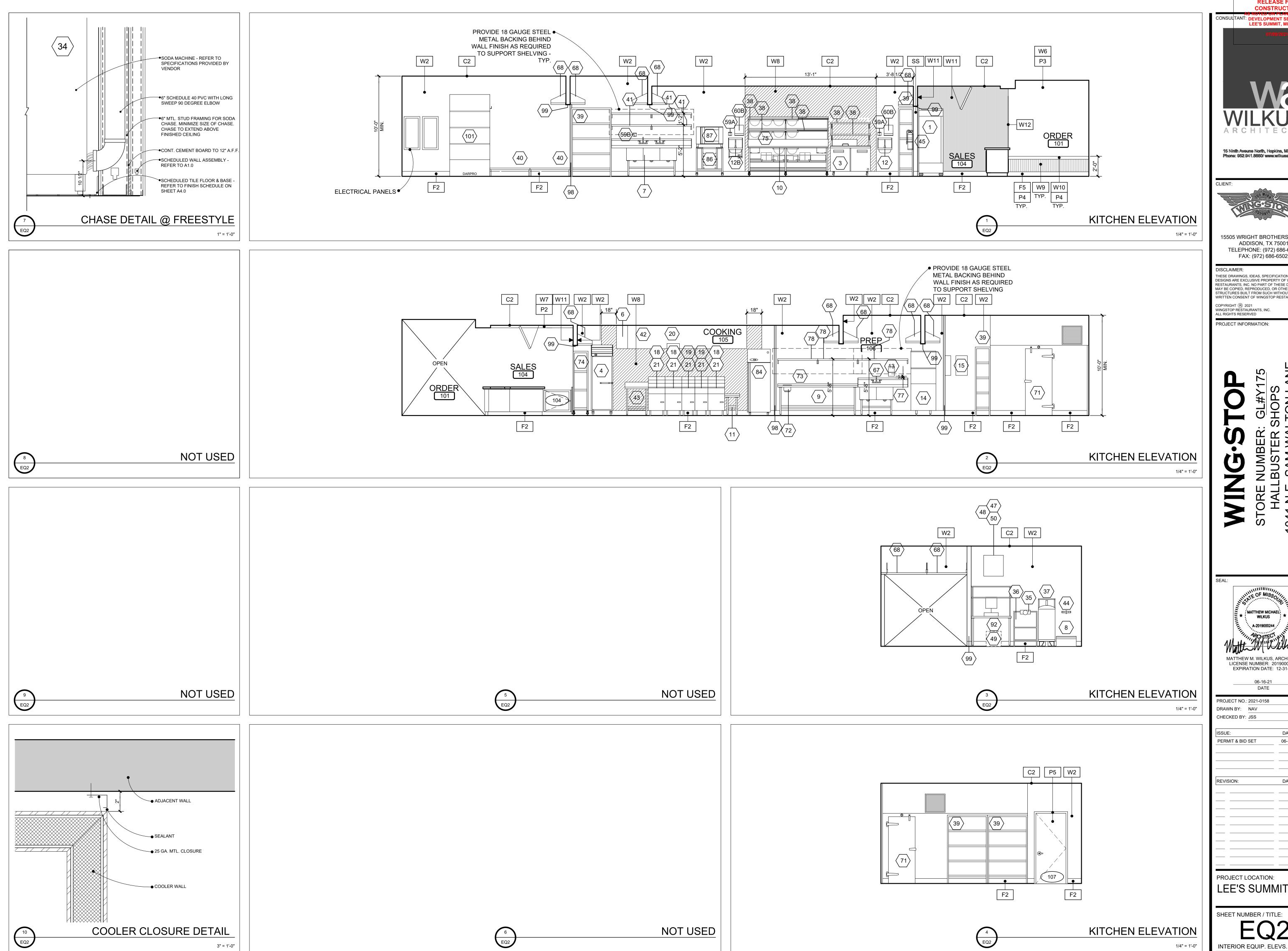
PROJECT NO.: 2021-0158 DRAWN BY: NAV

CHECKED BY: JSS PERMIT & BID SET

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

EQUIPMENT PLAN



RELEASE FOR CONSTRUCTION CONSULTANT: DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

15 Ninth Aveune North, Hopkins, MN 55343 Phone: 952.941.8660/ www.wilkusarch.com



15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001 TELEPHONE: (972) 686-6500

FAX: (972) 686-6502 DISCLAIMER:

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PROJECT INFORMATION:

MATTHEW M. WILKUS, ARCHITECT LICENSE NUMBER: 2019000244 EXPIRATION DATE: 12-31-21

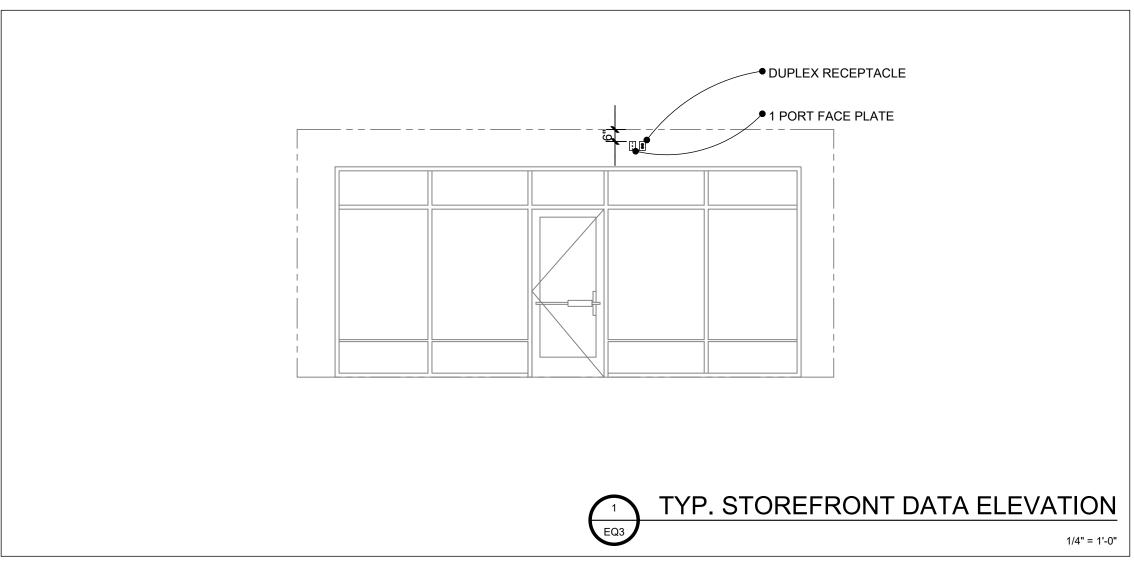
PROJECT NO.: 2021-0158 DRAWN BY: NAV CHECKED BY: JSS

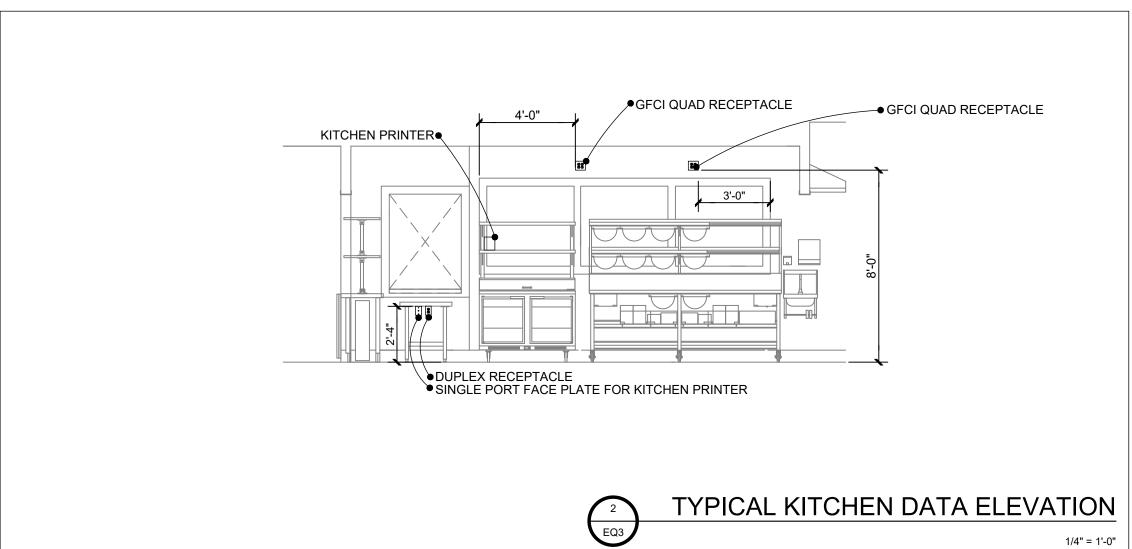
PERMIT & BID SET 06-16-21

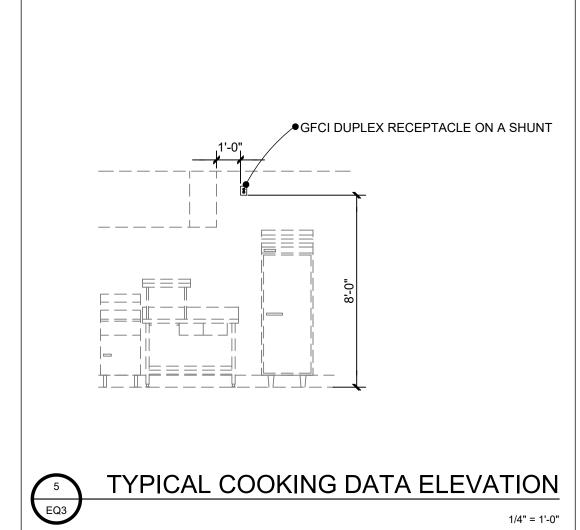
PROJECT LOCATION: LEE'S SUMMIT, MO

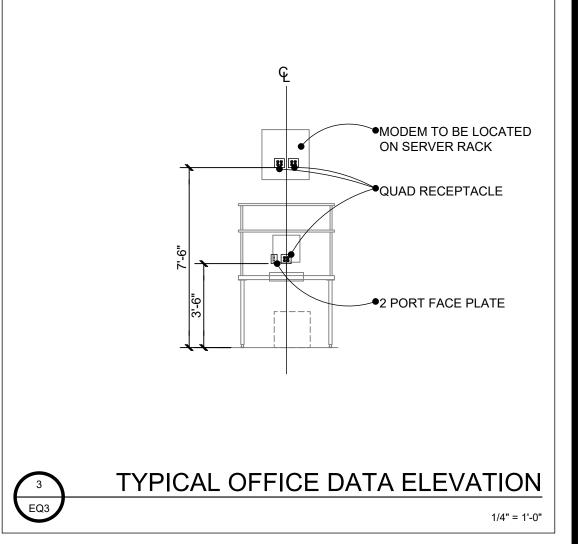
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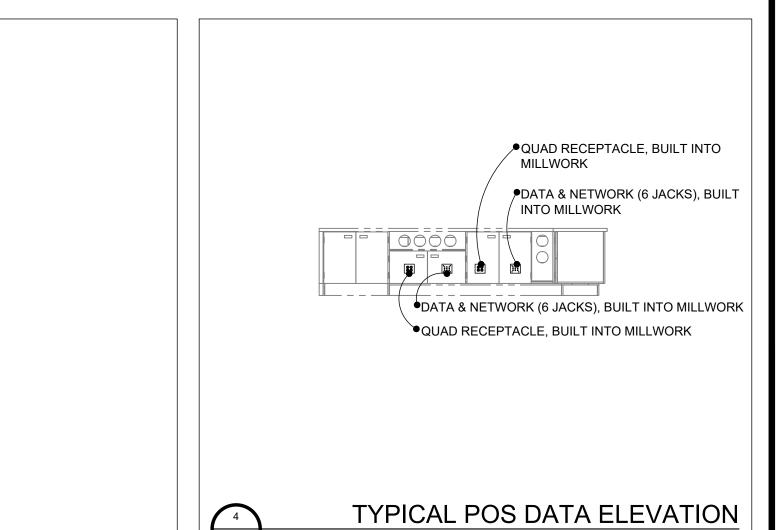














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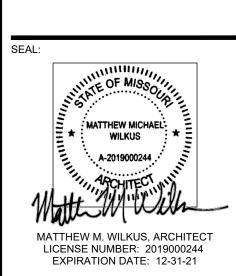
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PROJECT INFORMATION:

ING-STOP ORE NUMBER: GL#Y175 HALLBUSTER SHOPS N.E. SAM WALTON LAN



06-16-21

PROJECT NO.:	2021-0158
DRAWN BY:	NAV
CHECKED BY:	JSS

ISSUE:	DATE:
PERMIT & BID SET	06-16-21
REVISION:	DATE:

PROJECT LOCATION:

LEE'S SUMMIT, MO

SHEET NUMBER / TITLE:

DATA EQUIP. ELEVS.

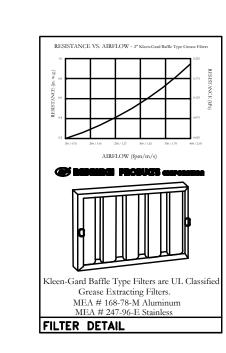
1/4" = 1'-0"

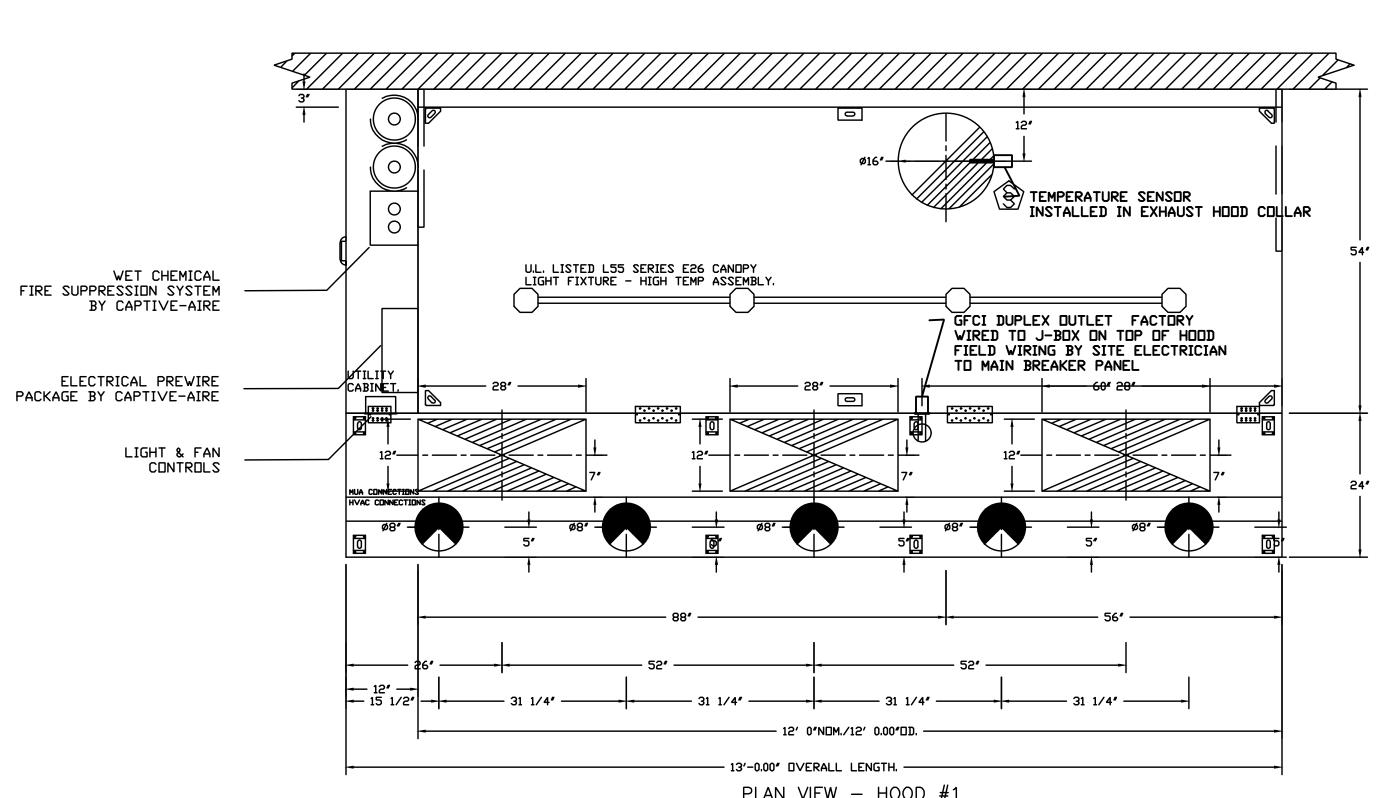
HOOD	<i>INF</i> (ORMATION -	- <i>J0B#4921</i>	898																	
HDDD ND	TAG	MDDEL	" MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY		EVIL CEM	WIDTH	LENG	R	JST PL ISER(S DIA	3)	VEL	SP	MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD C END TO END	
1		5430 ND-2-ACPSP-F	CAPTIVEAIRE	12′ 0 ″	600 DEG	I	HEAVY	225	2700			4"	16"	2700	1934	-1.008*	2160	650	430 SS WHERE EXPOSED	ALONE	ALONE

H00.	D INF	<u>ORMATION</u>															
				FILTER ((2		LIGHT(S)			UTILITY CABINET(S)							
HOOD	TAG					EFFICIENCY @ 7			WIRE			FIF	RE SYSTEM	ELECTRICAL	SWITCHES	FIRE	1HANGING
ND	1 1 1 1 1	TYPE		HEIGHT	LENGTH	MICRONS	QTY		GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #		PIPING WEIGHT	
1		CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER	4	L55 SERIES E26	ND	LEFT	12"×54"×30"	ANSUL R102	3.0/3.0	DCV-1111	1 LIGHT	YES	1002
						SPEC	'		''-				5.67 5.6		1 FAN		LBS

HOOL) <i>0P1</i>	TIONS
HDDD ND	TAG	OPTION
		BACKSPLASH 120.00" HIGH X 192.00" LONG 430 SS VERTICAL.
		BACKSPLASH 108.00" HIGH X 192.00" LONG 430 SS VERTICAL.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		STRUCTURAL FRONT PANEL.
1		RISER SENSOR INSTALL 3IN DBL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		GFCI DUPLEX DUTLET, 20A 125V - HODD FRONT RIGHT - VERTICAL - DIST FROM END: 60.00 DIST FROM BOTTOM: 4.75.

PERF	ORAT	ED SU	PPLY	PLENU	IM(S)						
					RISE						
NO NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG	DIA	CFM	SP
						MUA	12"	28"		720	0.195"
						MUA	12"	28"		720	0.195"
						MUA	12"	28"	720		0.195"
1		Front	156 ″	24"	<i>("</i>	AC			8"	130	0.053"
1		Front	136	C4	6"	AC			8"	130	0.053"
						AC			8"	130	0.053"
						AC			8″	130	0.053"
						AC			8″	130	0.053"





PLAN VIEW — HOOD #1

12' 0.00" LONG 5430ND-2-ACPSP-F

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

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

(1) DUPLEX DUTLET

2700 CFM IN 16" DIA. EXHAUST COLLAR = 1934 FPM HODD CONSTRUCTION OF 18 GAUGE AND 20 GAUGE METAL CALCULATIONS UTILIZED

Captive-Aire ventilator duct sizes are calculated using an Exhaust velocity of 1500 - 1800 FPM and a Supply velocity of 800 - 1000 FPM.
 Please consult factory for maximum allowable duct sizes.

Calculations utilized are based on the hood's ETL Listing Exhaust CFM = 12 foot X 225 CFM/lin. ft. (load) = 2700 cfm Supply CFM = 2700 Exhaust CFM X 80 percent = 2160 cfm Total Duct Area = 144 X Total Duct Area Duct Depth (Note 2)

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH BUILT IN ACCORDANCE VITH NFPA No. 96 UL 710 & ULC710 STANDARDS E.T.L. LISTED 3054804-001

FOR QUESTIONS, EMAIL THE CaptiveAire Dallas Sales Office Colin Prewitt PHDNE: (214) 220-3999 EMAIL: reg45@captiveaire.com

ALL HVAC SUPPLY DIFFUSERS WITHIN 10' OF THE EXHAUST HOOD MUST BE PERFORATED SCREEN STYLE WITH NO DIRECTIONAL VANES. HVAC AIR MUST NOT BLOW AT THE EXHAUST HOOD OR THE APPLIANCES.

ALL HVAC RETURN GRILLS MUST BE AT LEAST 10' FROM THE EXHAUST HOOD THE BACK OF THE FRYERS SHOULD BE NO MORE THAN 6" FROM THE WALL REFER TO HOOD MANUAL FOR PROPER INSTALLATION

CAPTIVE-AIRE HOOD PACKAGE AS SHOWN IS OWNER PROVIDED

ND-2 Specification
The model ND-2 is an exhaust only canopy hood rated for all types of cooking equipment. The hood shall have the size, shape and performance specified on drawings.

Construction shall be type 430 stainless steel with a #3 or #4 polish where exposed. Individual component construction shall be determined by the manufacturer and ETL. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to the lower outermost perimeter that directs and captures grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96. Hood shall be wall type with a minimum of four connections for hanger rods. Corner hanging angles have a 5/8" x 1-1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation.

Ventilator shall be furnished with U.L. classified high efficiency stainless steel baffle filters, supplied in size and quantity as required by ventilator. The filters shall extend the full length of the hood and the filler panels shall not be more than 6" in width.

The hood manufacturer shall supply complete computer generated submittal drawings including hood sections view(s) and hood plan view(s). These drawings must be available to the engineer, architect and owner for their use in construction, operation and maintenance.

Exhaust duct collar to be 4" high with 1" flange. Duct sizes, CFM and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 40" spacing on center and allow up to a 100 watt standard light bulb.

A double wall insulated front to eliminate condensation and increase rigidity. The insulation shall have a flexural modulus of 475 EI, meet

UL 181 requirements and be in accordance with NFPA 90A and 90B. An integral front baffle to direct grease laden vapors toward the exhaust filter bank. A built—in wiring chase provided for outlets and electrical controls on the hood face and shall not penetrate the capture area or

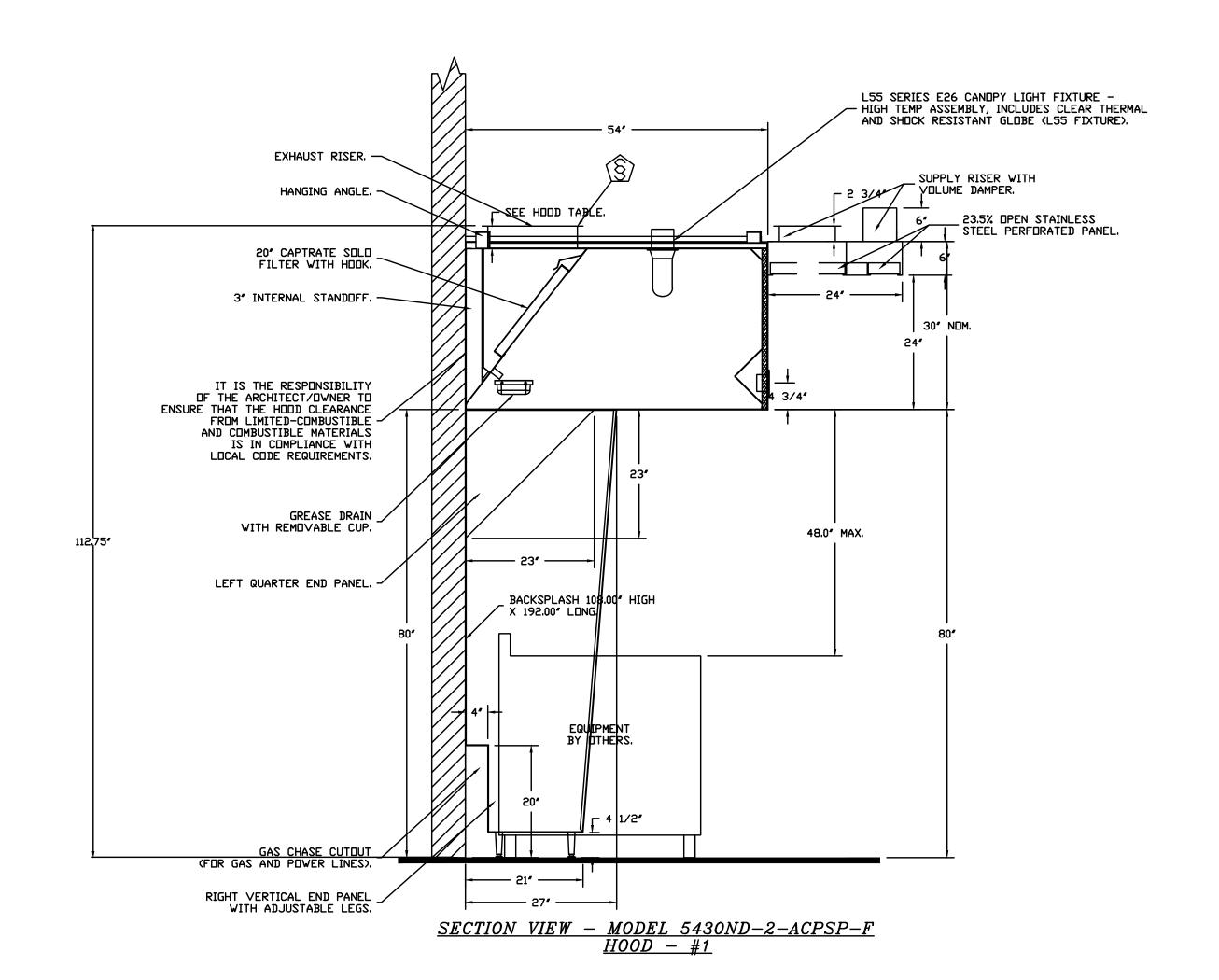
require an external chaseway.

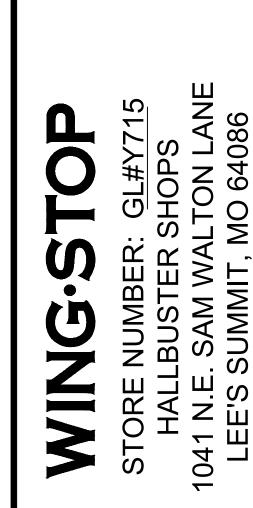
Removable grease cup for easy cleaning.
The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper", ETL Sanitation Listed and built in accordance with NFPA 96. The hood shall be listed for 450°F cooking surfaces at 150 CFM/ft, 600°F cooking surfaces at 200 CFM/ft, and 700°F cooking surfaces at 250 CFM/ft. The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper".

Clearance to Combustibles: Standard built in 3" rear standoff to meet NFPA 96 requirements. The ND-2 Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

AC-PSP Specification
The AC Perforated Supply Plenum (ACPSP) shall provide make-up air through a dual stream perforated stainless steel plenum. All seams shall be welded and have stainless steel on exposed surfaces. Unexposed surfaces shall be constructed of aluminated steel. Perforated diffuser plates shall be included in the design and to provide even air distribution. The air-conditioned portion of the plenum shall be insulated to prevent condensation. The make-up air plenum shall be located nearest the hood and the air-conditioned plenum away from the hood. The make-up air stream and the air-conditioned stream shall not be permitted to mix until leaving the dual plenum.

Air-conditioned stream should be supplied to the AC plenum up to 80 cfm per linear foot of plenum.





5501 LBJ FREEWAY, 5TH FLOOR DALLAS, TX 75240

TELEPHONE: (972) 686-6500

FAX: (972) 686-650

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PROJECT INFORMATION

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DEVELOPMENT SERVICES

CONSULTANT: AS NOTED ON PLANS REVIEW

PROJECT NO.:	2021-0158	
DRAWN BY:	JJV	
CHECKED BY:	DRC	
ISSUE:		DAT

SSUE:	DATE:
FOR PERMIT & BID	06-10-21

EVISION:	DATE:
_	_

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER:

H′

<u> </u>	<u> </u>	JIM IIVI OIVIMITIIC	711 00Dπ+0≈1000			
FIRE			"	FLOW	INSTALLA	TION
SYSTEM	TAG	TYPE	SIZE	POINTS	SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0	21	FIRE CABINET LEFT	LEFT, HOOD 1

HOOKUP, PERMITING, AND FINAL TESTING OF ANSUL SYSTEM PROVIDED BY CAPTIVE-AIRE SYSTEMS HORN STROBE TO BE PROVIDED BY GC WHEN REQUIRED

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS - RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING,
- SALAMANDERS, ETC. - MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARBROILER 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 FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS

LEGEND - FIRE CABINET ANSUL SYSTEM

1.5 GALLON TANK 3 GALLON TANK DEM AUTOMAN RELEASE DEM REGULATED RELEASE DEM REGULATED ACTUATOR ANSULEX LIQUID AGENT (3 GAL.) ANSULEX LIQUID AGENT (1.5 GAL.) CARTRIDGE (101-20) CARTRIDGE (101-10) CARTRIDGE (101-30) CARTRIDGE (LT-A-101-30) DOUBLE TANK CARTRIDGE TEST LINK DOUBLE MICROSWITCH HOSE ASSEMBLY DUCT NOZZLE (430913) DUCT NOZZLE (419337) NOZZLE ASSEMBLY (419336) NOZZLE ASSEMBLY (419333) NOZZLE ASSEMBLY (419335) 1/2N NOZZLE ASSEMBLY (419334) NOZZLE ASSEMBLY (419338) NOZZLE ASSEMBLY (419340) NOZZLE ASSEMBLY (419339) 230 NOZZLE ASSEMBLY (419343) NOZZLE ASSEMBLY (419342) NOZZLE ASSEMBLY (419341) DETECTOR BRACKET LOW TEMP FUSIBLE LINK

HIGH TEMP FUSIBLE LINK

REMOTE MANUAL PULL STATION

MECHANICAL GAS VALVE ELECTRICAL GAS VALVE

SWIVEL ADAPTOR

<u>SPECIFICATIONS</u>

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

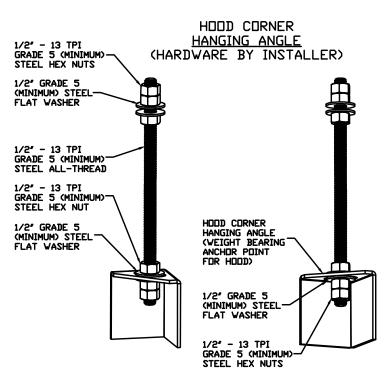
THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

MANUFACTURER TRAINED PERSONNEL WILL TEST THE SYSTEM AND BE WITNESSED BY THE LOCAL AUTHORITY IF APPLICABLE MECHANICAL GAS VALVE SHALL BE MANUAL RESET TYPE. COMPLIES WITH NFPA STANDARD 17A AND 96.

PIPING SHALL BE BLACK IRON. NDZZLE BLOW-OFF CAPS SHALL BE RUBBER

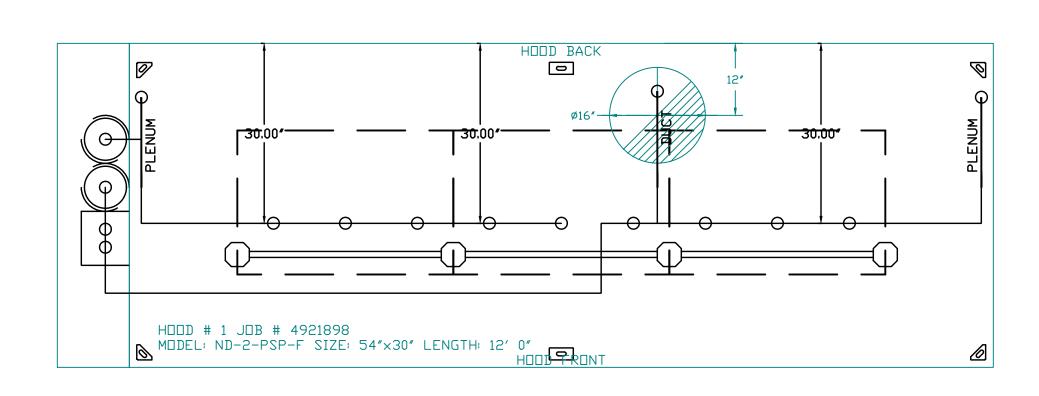
"QUICK-SEAL" ADAPTORS AT HOOD AND DUCT PENETRATIONS PRODUCE A LIQUID-TIGHT FITTING

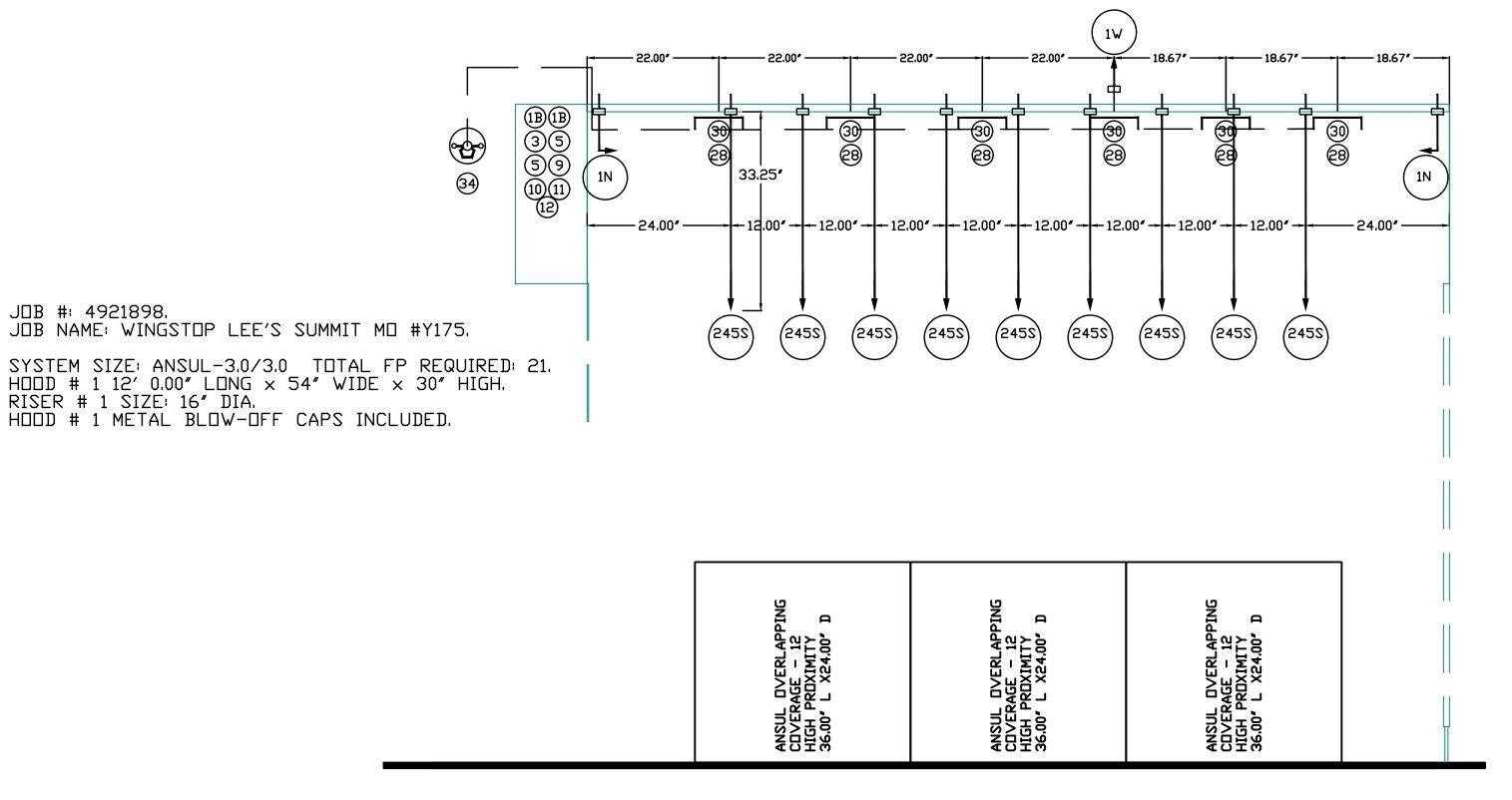
The system shall have been tested to the UL Standard for Fire Extinguishing Systems for Protection of Restaurant Cooking Area, UL300, and Listed by Underwriters Laboratories, Inc. It shall be installed in accordance with the National Fire Protection Association Standard No. 17A Wet Chemical Extinguisher Systems, and No. 96 Standard for the Installation of Equipment for the Removal of Smoke and Grease Laden Vapors from Commercial Cooking Equipment, and comply with all local and/or state codes and standards.



ASSEMBLY INSTRUCTIONS

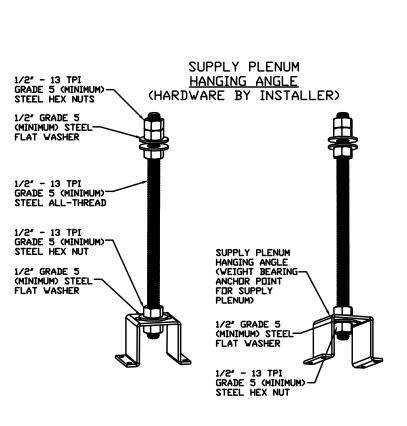
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND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





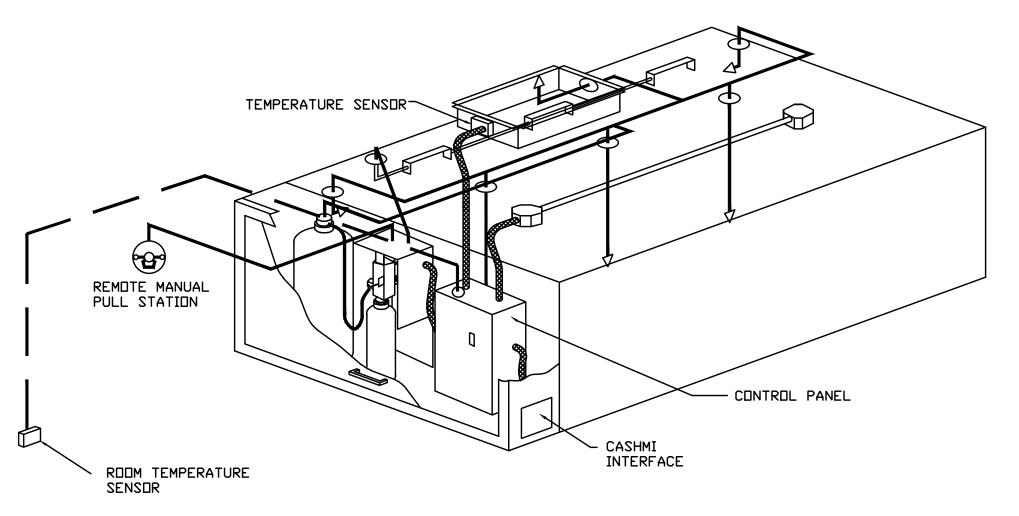
ANSUL OVERLAPPING NOZZLE COVERAGE - OPTION 1 ANSUL 2014 DESIGN MANUAL PAGES 4-53 THROUGH 4-56

HOOKUP, PERMITING, AND FINAL TESTING OF ANSUL SYSTEM PROVIDED BY CAPTIVE-AIRE SYSTEMS



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 ABOVE CEILING ANCHORS, SINGLE HEX NUT 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.



TYPICAL CONTROL CENTER INSTALLATION

CAPTIVE-AIRE HOOD PACKAGE AS SHOWN IS OWNER PROVIDED

RELEASE FOR CONSULTANT: AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

5501 LBJ FREEWAY, 5TH FLOOR DALLAS, TX 75240 TELEPHONE: (972) 686-6500 FAX: (972) 686-650

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PROJECT INFORMATION

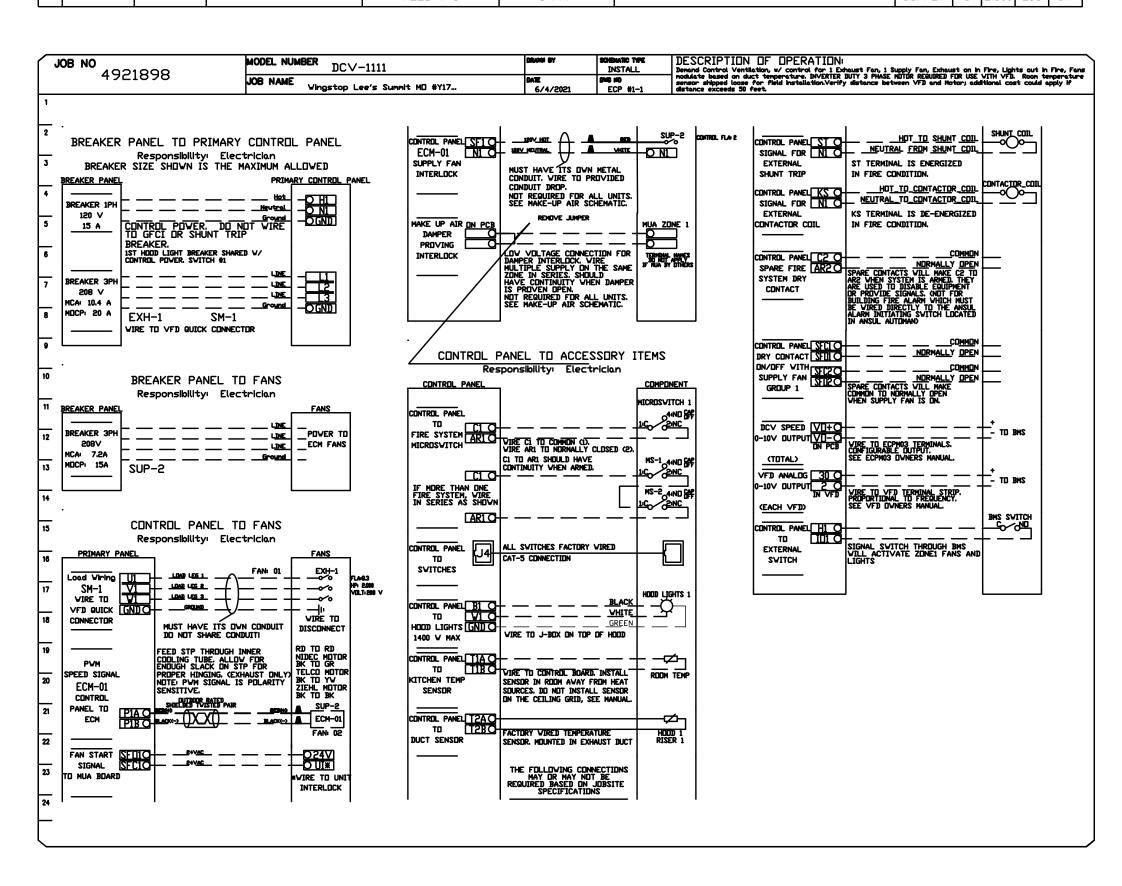
PROJECT NO.: 2021-0158 DRAWN BY: JJV CHECKED BY: DRC DATE: SSUE:

FOR PERMIT & BID 06-10-21

DATE:

PROJECT LOCATION: LEE'S SUMMIT, MO

EL.	ECTRICAL	PACKAGI	E - JOB#4921898								
ND	TAG	PACKAGE	 LOCATION	SWITCH	IES	OPTION	FAN	12 C	ONTRO	LLED	
		#		LOCATION	QUANTITY	<u> </u>	TYPE	ф	HP	VOLT	FLA
		DCV-1111	UTILITY CABINET LEFT	03 - UTILITY CABINET LEFT	1 LIGHT	SMART C□NTR□LS DC∨	EXHAUST	3	2.000	208	8.3
1		DC V - IIII	OTILITI CABINET LEFT	H00D # 1	1 FAN	SMAKI CONTROLS DCV	SUPPLY	3	2.500	208	5.7



The Electrical Control Panels Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance. Models Electrical Control Panels are ETL Listed under file number 3054731-001 and complies with UL508A Standards and CSA C22.2, No. 73-1953 Standards.

The OFP Electrical Package is designed to thermostatically activate the exhaust fan for an exhaust hood whenever elevated temperatures are sensed in the exhaust system. This option will meet the requirements of IMC 507.2.1.1 by providing a thermostat(s) mounted in the duct or hood riser to sense increased exhaust temperatures. Controls shall be listed by ETL (UL 508A). The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.

Temperature sensor(s) located in the duct riser(s) shall be constructed of Stainless Steel.

A room temperature sensor is also provided for field installation in the kitchen space in order to start the fan(s) based on the temperature differential between the room and the exhaust air in the duct, rather than fixed set-points. The system is factory pre-set to activate the fans at 15 deg F° above the room temperature.

Once the duct temperature reaches the activation point, the exhaust fans will be activated. The controls also provide hysteresis to prevent cycling of the fans after the cooking appliances have been turned off and the heat in the exhaust system is reduced. The hysteresis is factory set 2 degrees and will keep the exhaust running until the temperature falls 2 degrees below the activation set point. A hysteresis timer also exists to keep the fans running for at least 30 min after being activated by the temperature rise.

The activation and hysteresis settings may be field adjusted on the board LCD interface located inside the control enclosure to meet application needs. The panel is factory configured to shut down supply fans, turn on the exhaust fans and turn off the hood lights in a fire condition.

Actuation of the fire extinguishing system shall automatically shut down the fuel and electric power supply to the cooking equipment. The fuel and electric reset shall be manual.

A manual activation device shall be located a minimum of ten feet (10') and a maximum of twenty feet (20') from the hood system.

SYSTEM DESIGN VERIFICATION (SDV)

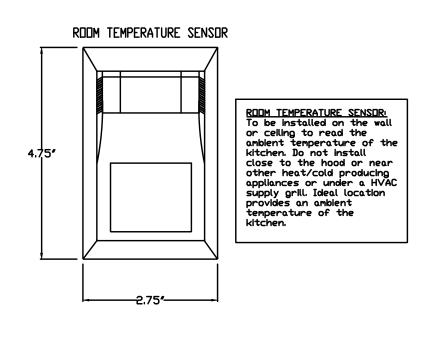
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

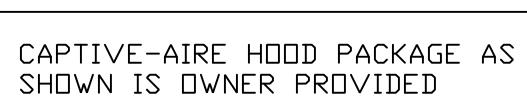
ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE

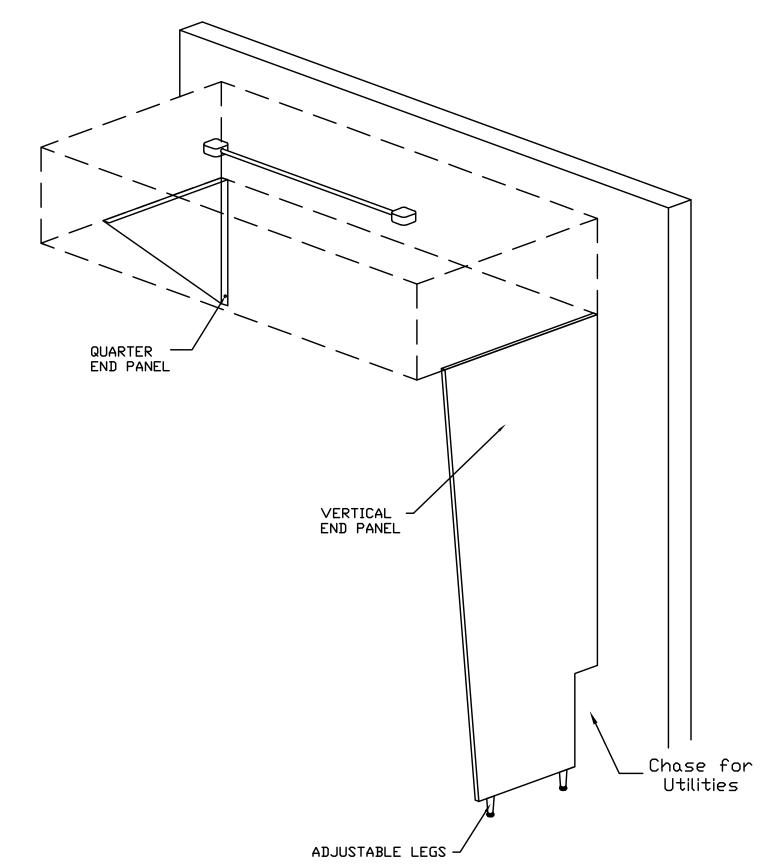
ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS

RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

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







CLIENT:

5501 LBJ FREEWAY, 5TH FLOO DALLAS, TX 75240 TELEPHONE: (972) 686-6500 FAX: (972) 686-650

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ROJECT INFORMATION:

NUMBER: GL#Y715 LBUSTER SHOPS SAM WAI TON I ANF

DARRELL R. NUMBER

_______6/15/21 DATE

PROJECT NO.: 2021-0158

DRAWN BY: JJV

CHECKED BY: DRC

ISSUE: DATE:

FOR PERMIT & BID 06-10-21

EVISION: DATE:

PROJECT LOCATION:

LEE'S SUMMIT, MO

SHEET NUMBER:

H3

EXHA	UST	FAN	INFORMATION - JOB#49	21898												
FAN UNIT ND	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	ВНР	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU180HFA	CAPTIVEAIRE	2700	1.200	1148	ODP,PREMIUM	2.000	1.1570	3	208	8.3	624 FPM	207	14.2

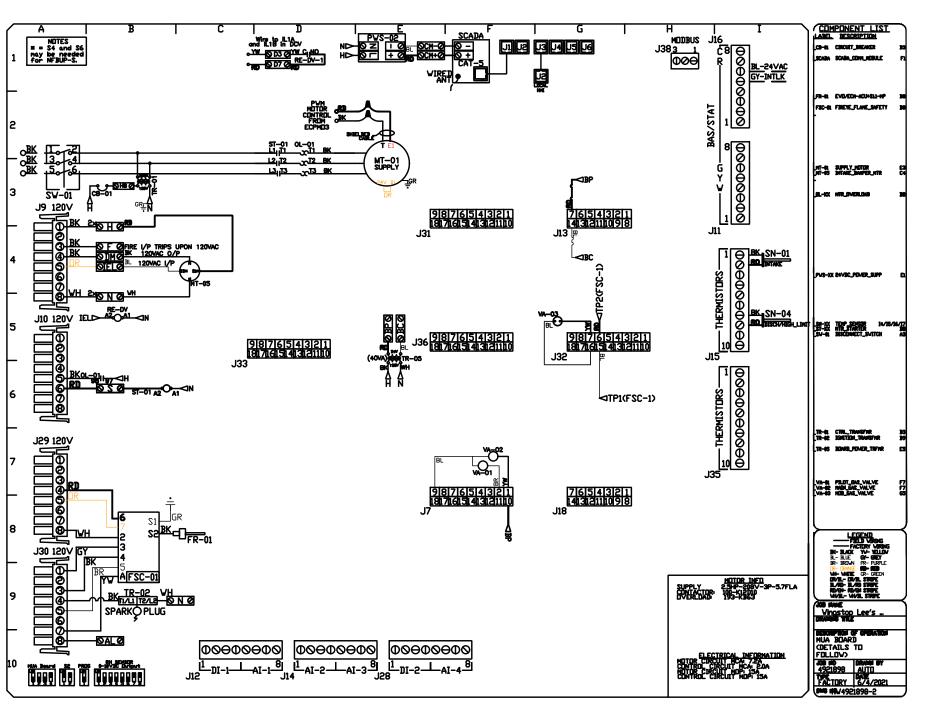
MUA	MUA FAN INFORMATION - JOB#4921898																		
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HDUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2		1	A1-D.250-16Z	16Z-1-MDD	A1-D.250	1000	2160	0.600	2376	прр-есм	2.500	1.6150	3	208	5.7	7.2A	15A	460	26

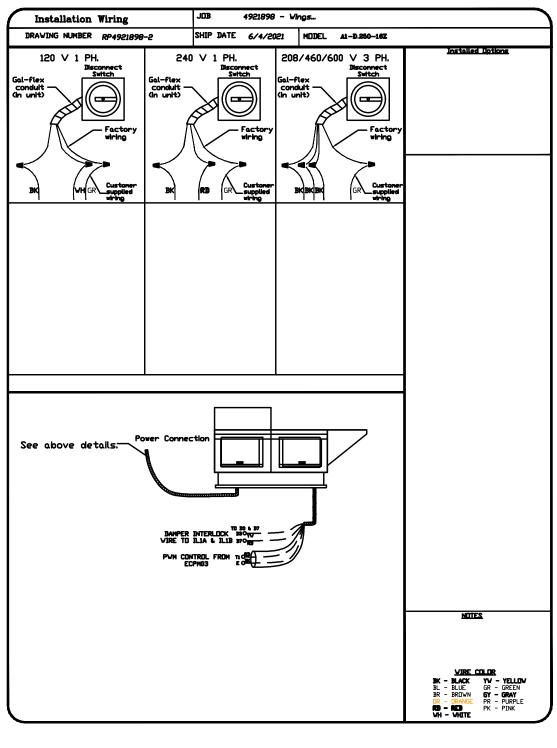
GAS .	<i>FIREL</i>) MAKE	S-UP AI	IR UNIT(S	•)		
FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2		161109	148220	66°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92

FAN	<i>OPTIO</i>	ONS	
FAN UNIT NO	TAG	QTY	DESCRIPTION
		1	GREASE BOX.
1		1	24" TALL STRAIGHT WIND BAND EXTENSION 18/20 (SHIPS LOOSE).
		1	2 YEAR PARTS WARRANTY.
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING, MEETS AMCA CLASS 1A RATING.
		1	LOW FIRE START.
		1	INLET PRESSURE GAUGE, 0-35".
₂		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.
-		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.
		1	ECM WIRING PACKAGE-SUPPLY - PWM SIGNAL FROM ECPMO3 PREWIRE (3 - PHASE ZIEHL MOTOR).
		1	2 YEAR PARTS WARRANTY.

<i>FAN</i>	ACCE.	SSORI.	ES				
FAN ACCESSORIES EXHAUST GREASE GRAVITY WALL SIDE GI CUP DAMPER MOUNT DISCHARGE I	SUPF	SUPPLY					
	TAG					MOTORIZED DAMPER	WALL MOUNT
1		YES					
2						YES	

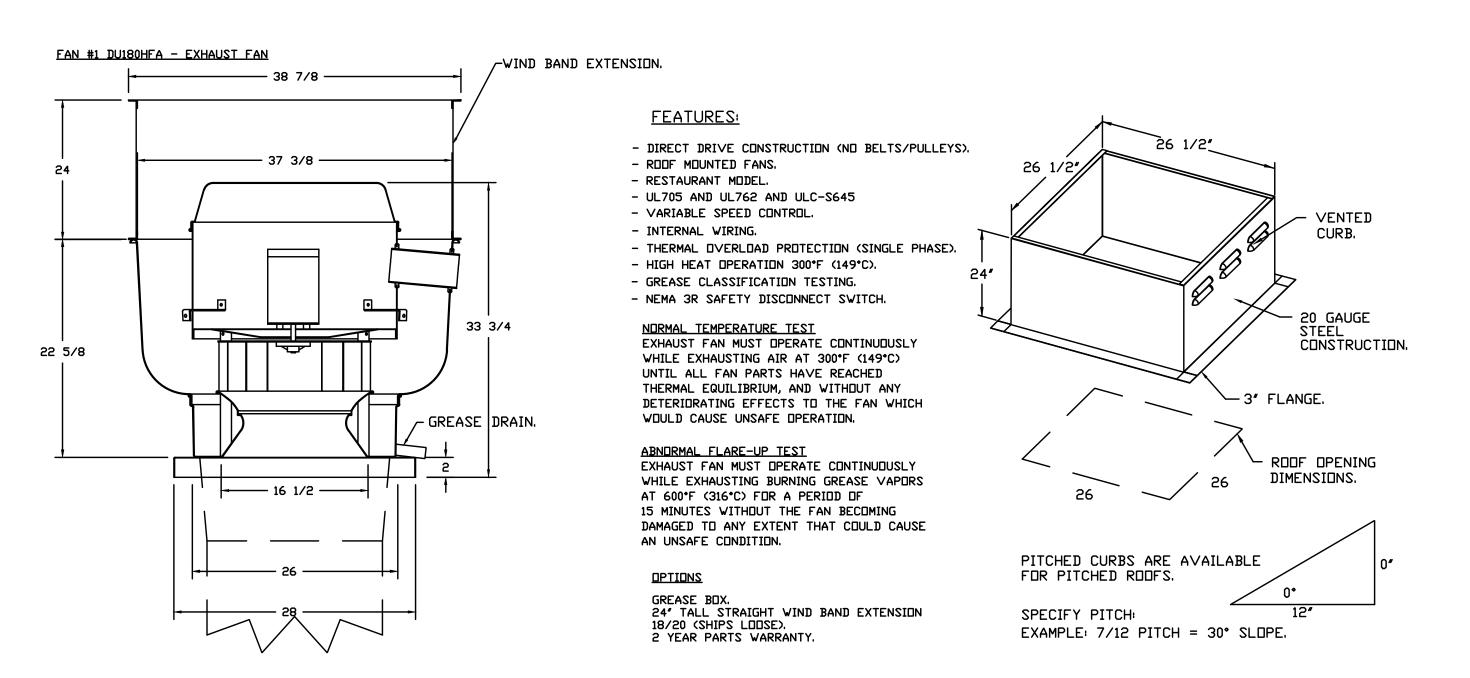
<u>C</u>	CUF	B AS	<u>SSEMBLIES</u>		
	ND	□N FAN	WEIGHT	ITEM	SIZE
	1	# 1	38 FB2	CURB	26.500°W X 26.500°L X 24.000°H VENTED HINGED.
Γ	2	# 2	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H INSULATED.





REFER TO FAN MANUALS REGARDING PROPER STARTUP AND INSTALLATION

CAPTIVE-AIRE HOOD PACKAGE AS SHOWN IS OWNER PROVIDED



FAN #2 A1-D.250-16Z - HEATER

1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 16" DIRECT DRIVE FAN.

2. INTAKE HOOD WITH EZ FILTERS-LOW CFM.

3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.

4. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB12OS ACTUATOR INCLUDED.

5. LOW FIRE START ALLOWS THE BURNER CIRCUIT TO ENERGIZE VIEW THE MODULA ALLOW ON THE BURNER CONSTRUCTION.

5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.

7. GAS PRESSURE GAUGE, 0-33, 2.3 DIAMETER, 174 THREAD SIZE.
7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
8. CASLINK BUILDING MONITORING SYSTEM COMMUNICATIONS MODULE. REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR 3G CELLULAR SERVICE. INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF

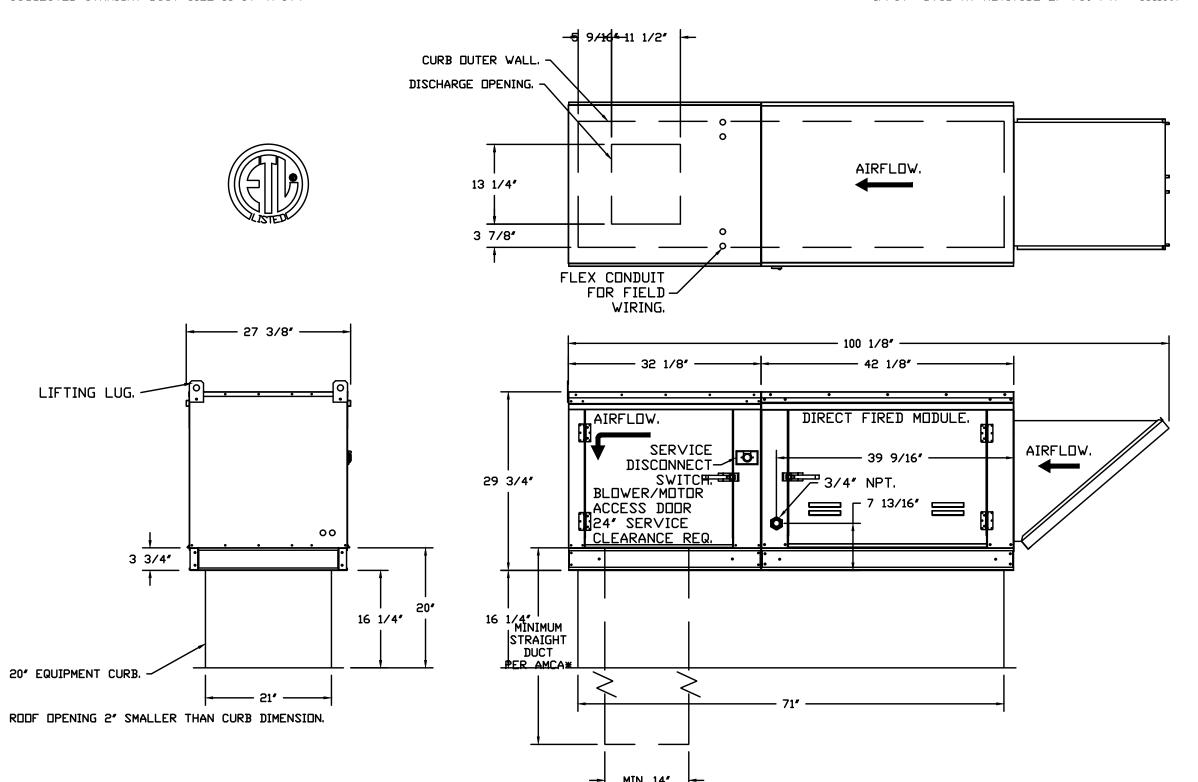
SHIELDED TWISTED PAIR.

10. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
11. 2 YEAR PARTS WARRANTY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS, A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DDWNSTREAM 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 REDUCT DAMP. DO THE PORT DUCT IN ANY WAY, FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" × 14".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 9°F. TEMP. RISE = 66°F. BTUs CALCULATED DFF ACTUAL AIR DENSITY. DUTPUT BTUS AT ALTITUDE DF 0.0 FT. = 152303. INPUT BTUS AT ALTITUDE DF 0.0 FT. = 165546. DUTPUT BTUS AT ALTITUDE DF 750 FT. = 148220. INPUT BTUS AT ALTITUDE DF 750 FT. = 161109.



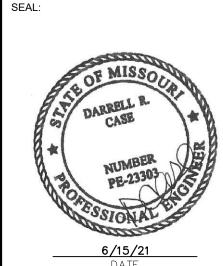


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PROJECT INFORMATION:



	DATE	
PROJECT NO	: 2021-0158	
DRAWN BY:	JJV	
CHECKED BY	: DRC	
ISSUE:		DATE:
FOR PERMIT	& BID	06-10-21

DATE: REVISION:

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER:

H4

DIICTWORK #1 PARTS - IOR#A921898 FOR 13'-9" ROOF DECK

				<i>D</i>	UCTWORK	#1 PAR	TS - J	OB#4921	896	8 FOR 13 -9 ROOF DECK
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1645ASY	2700				-0.0613	7.22	1933.73	1	SINGLE WALL DUCT 45 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P2	DW1645ASY	2700				-0.0875	7.22	1933.73	1	SINGLE WALL DUCT 45 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P3	DW1635LT	2700				-0.0173	18.67	1933.73	1	SINGLE WALL DUCT 16" DIAMETER, 35" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P4 ASSEMBLED W/P5	DW1630AJDKIT	2700				-0.0067	20.06	1933.73	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 29.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P5 ASSEMBLED W/P4	DW2616TPDBEX	2700					9.00	1933.73	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 16" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P5						-1.1808	0.00			
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	735602000						52.00		3	DUCT - DUCT INSULATION FOR ZERO CLEARANCE TO COMBUSTIBLES - 300" X 24" X 1-1/2" ROLL. UNIFRAX FYREWRAP ELITE 1.5.
	BANDING.5						5.00		1	DUCT - FIRE BARRIER WRAP STAINLESS STEEL BANDING .5" WIDTH - 200 FT PER ROLL.
	DW16CLASY						1.18		4	DUCT "V" CLAMP WITH NEW DESIGN 14 GA BRACKETS, 16" DUCT, ASSEMBLY.
	SEAL.50-50						0.50		1	DUCT - FIRE BARRIER WRAP STAINLESS STEEL BANDING SEAL .5" WIDTH. QUANTITY OF 50.
	TAPEALUM						0.25		1	DUCT - FIRE BARRIER WRAP ALUMINUM FOIL TAPE - 3' X 150' ROLL.
ADDITIONAL PARTS										
EXTRA-1	DW1607LT						4.14		2	SINGLE WALL DUCT 16" DIAMETER, 7" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
EXTRA-2	DW16CLASY						1.18		2	DUCT "V" CLAMP WITH NEW DESIGN 14 GA BRACKETS, 16" DUCT, ASSEMBLY.
TOTAL WEIGHT							240.88			

GREASE DUCT SPECIFICATION

Furnish single-wall, factory built, grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96.

Products shall be ETL listed to UL-1978 for venting air and grease vapors from commercial cooking operations as described in NFPA-96.

The duct wall shall be constructed of .036 thick type 430 stainless steel and be available in diameters 8" through 24".

All supports, fan adapters, hood connections, fittings and expansion joints required to install grease duct shall be included. Roof penetrations shall comply with listed clearance to combustibles, see guide for details.

The grease duct will terminate at the fan adapter plate, will be fully welded to the fan adapter plate and the fan adapter plate will be fastened to the curb using a suitably sized fastener provided by others; see page 12 of the "Installation, Operation and

Grease duct joints shall be held together by means of formed vee clamps and sealed with 3M Fire Barrier 2000+, Screws used to secure the vee clamps shall be of the hex-head type with flanged stops and tapered "lead in" threads for easy starting. Nuts shall be retained by means of a

free-floating cage to allow easy alignment. Single-Wall Grease Duct shall be installed in accordance with the manufacturer's "Installation, Operation and Maintenance Manual", ETL listing and

state and local codes.

Grease duct installed outside of the building shall be protected against accidental damage or vandalism. Support vertically installed grease duct from the building structure using rigid structural supports. Anchor supports to the structure by welding or bolting steel expansion anchors or concrete inserts. Support horizontally installed grease duct from the building structure using above method or use Duct Mate, Wire Rope & Clutchers, part numbers WR20 & CL20. 1/2" Threaded rod and saddles may also be used for the support of

Fans shall be supported independently from the grease duct sections. Protect grease duct from twisting or movement caused by fan torque or

FIRE WRAP SPECIFICATION - Pyroscat

Thermal Ceramics' new Pyroscat(R) Duct Wrap XL is the thinnest and lightest flexible wrap material available that passes the ASTM E 2336 test standard required by the 2006 IMC and NFPA 96 for reduced clearance enclosure materials used to provide 1 or 2 hour fire rating for kitchen exhaust ducts. Duct Wrap XL is also UL Classified and Labeled per ISO 6944 as an alternative to a 1 or 2 hour rated enclosure for air ventilation ducts. The Duct Wrap XL core blanket is manufactured using Thermal Ceramics patented Superwool® fiber, a 2000°F rated, non-combustible, alkaline-earth silicate wool with low biopersistence. Duct Wrap XL is the product of extensive research and development resulting in break-through improvements in fiberization technology with significant enhancements in thermal properties beneficial to fire protection applications. Duct Wrap XL when used in combination with an approved firestop sealant provides an effective through penetration firestop in rated floor and wall assemblies. Duct Wrap XL is UL Classified and is part of UL's Listing and Follow-Up Service Program to ensure the consistent quality essential to the critical nature of this life-safety application.

FIRE WRAP SPECIFICATION - Unifrax

Unifrax's FyreWrap®Elite®1.5 Duct Insulation is a two-layer flexible enclosure for two-hour rated commercial kitchen grease ducts. FyreWrap Elite 1.5 Duct Insulation is tested per ASTM E2336 and is acceptable as an alternate to a traditional fire-rated shaft. Installed as a two-layer system, FyreWrap Elite 1.5 complies with the International Mechanical Code (IMC) and Uniform Mechanical Code (UMC). FyreWrap Elite 1.5 Duct Insulation offers the following product features:

- 2-hour fire-resistance rating Alternate to shaft enclosure
- Complies with IMC and UMC
- Tested per ASTM E2336
- Two-layer system
- High-temperature, biosoluble insulation
- Zero clearance to combustibles, at any location •GREENGUARD listed for Microbial Resistance

DUCT SEALANT & FIREWRAP PROVIDED BY CAPTIVE-AIRE

Model DW Series is ETL Listed under file number 3114021, and complies with UL-1978, as well as CAN/ULC-S662.

The DW Series has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

UL 1978 -Standard for Grease Duct

UL 2221 -Fire Resistive Grease Duct Enclosure Assemblies NFPA 96 -Installation Standard

ASTM E2336 - Test Method for Fire Resistive Grease Duct Enclosure System

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES, CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.



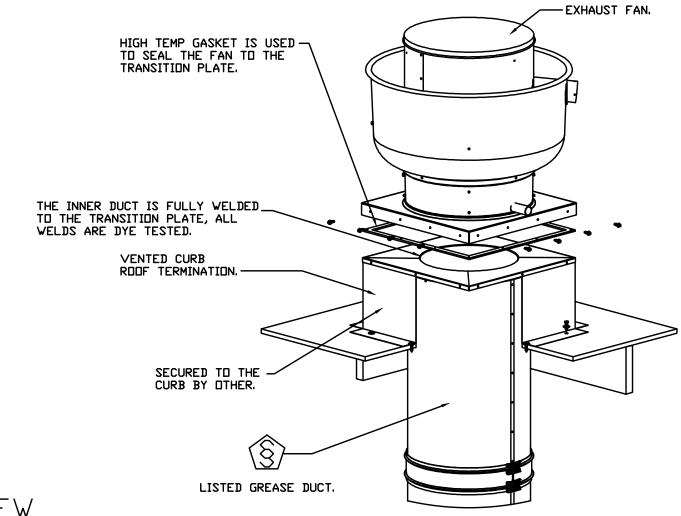
SINGLE WALL FACTORY BUILT DUCTWORK

- ADJUSTABLE PIECES OF DUCT MUST EXTENDED INTO THE DUCT BELOW BY AT LEAST 6' MINIMUM.
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW. - FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- · DUCTWORK SHALL SLOPE NOT LESS THAN 1/16° PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR. - WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16' PER LINEAR FOOT.

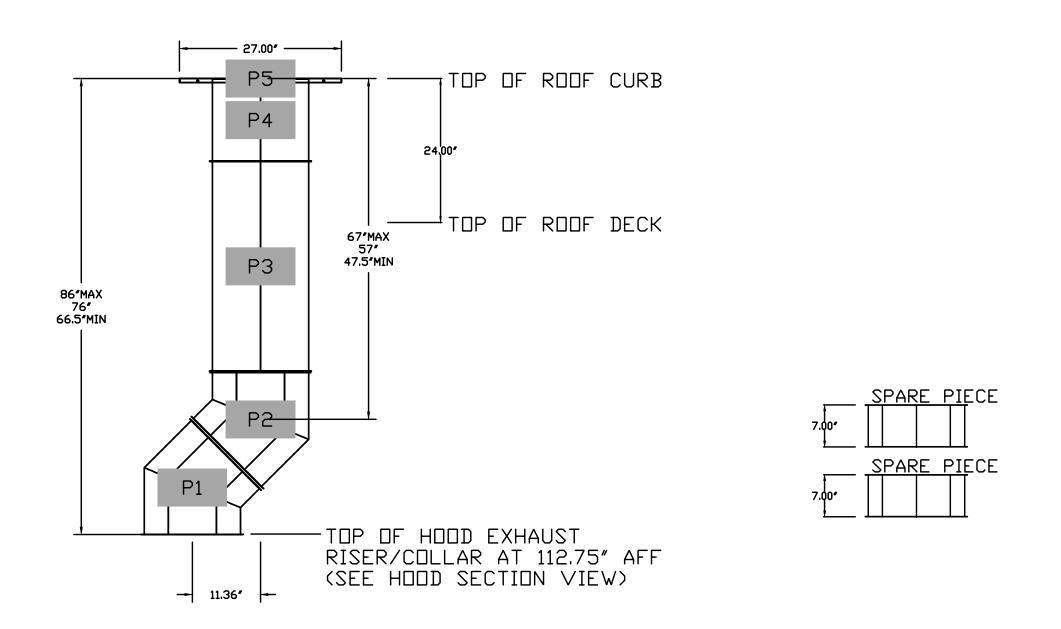
DUCT DIAMETER	HORIZONTAL WALL SUPPORT (ft)	VERTICAL WALL SUPPORT (ft)	VERTICAL CURB SUPPORT (ft)
8*	10′	10′	24′
10"	10′	10'	24'
12"	10′	10'	24'
14"	10′	10'	24′
16"	10′	10'	24′
18"	10′	10'	24'
20"	10′	10'	24'
22*	10′	10'	24'
24*	10′	10′	24'

CAPTIVE-AIRE HOOD PACKAGE AS SHOWN IS OWNER PROVIDED

MINI	MUM CLEARANCE	TO COMBUSTII	BLES
DUCT DIAMETER	COMBUSTIBLES	LIMITED COMBUSTIBLES	NDN COMBUSTIBLES
8*	18*	3″	0"
10"	18*	3 *	0"
12*	18*	3 '	0"
14"	18"	3 '	0"
16*	18"	3 ′	0"
18 '	18*	3 *	0*
20*	18*	3 ′	0"
24"	18"	3*	O"



DUCTWORK #1 FRONT VIEW FOR 13'-9" ROOF DECK



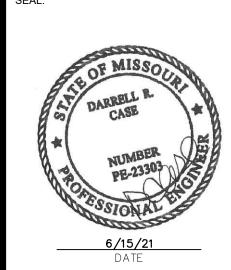
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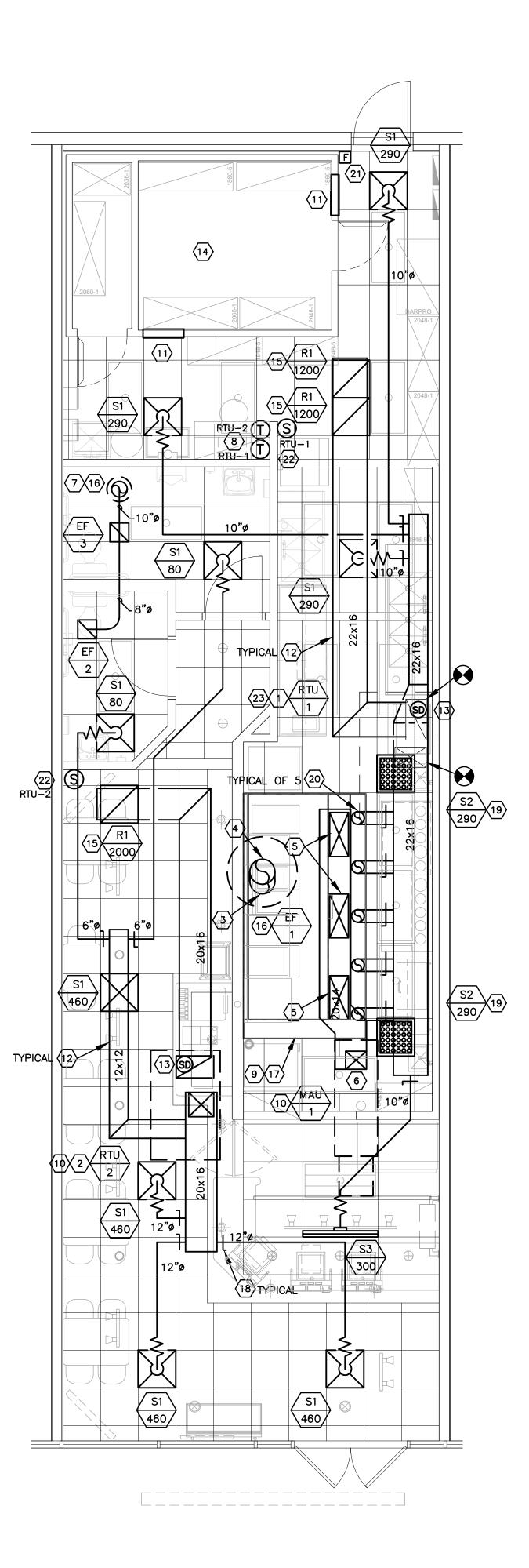
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PROJECT NO.: 2021-0158

DRAWN BY: JJV CHECKED BY: DRC FOR PERMIT & BID 06-10-21

PROJECT LOCATION: LEE'S SUMMIT, MO



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

GENERAL INSTRUCTION TO BIDDERS

EQUIPMENT SHALL BE TRANE WITH MODELS AND CONFIGURATIONS AS SHOWN. NO SUBSTITUTIONS ALLOWED. PLEASE REFER TO THE TRANE NATIONAL ACCOUNT PROGRAM SCHEDULE BLOCK FOR DETAILS ON PRICING AND ORDERING OR CONTACT: CLINT MORGAN - NATIONAL ACCOUNTS MANAGER - TEXAS DISTRICT TRANE COMMERCIAL SYSTEMS

1617 HUTTON DRIVE, CARROLLTON, TX 75006 OFFICE: 469-758-3179 MOBILE: 469-597-4836 EMAIL: CLINT.MORGAN@TRANETECHOLOGIES.COM

MECHANICAL KEYED NOTES

- $\langle 1 \rangle$ EXISTING 6 TON ROOFTOP UNIT RTU-1, REFER TO EQUIPMENT SCHEDULE ON SHEET M2. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCT WORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- (2)HVAC CONTRACTOR SHALL SUPPLY AND INSTALL 5 TON ROOFTOP UNIT RTU-2, REFER TO EQUIPMENT SCHEDULE ON SHEET M2. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCT WORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- (3)16"ø EXHAUST RISER UP FROM HOOD COLLAR. EXTEND DUCT UP TO FAN ON ROOF. REFER TO DETAILS ON SHEET M2FOR EXHAUST DUCT FIRE BARRIER DUCT WRAP. EXHAUST DUCT AND FIRE BARRIER DUCT WRAP PROVIDED BY OWNER INSTALLED BY MECHANICAL CONTRACTOR. IF WELDED EXHAUST DUCT IS USED, MECHANICAL CONTRACTOR TO PROVIDE EXHAUST DUCT AND FIRE BARRIER DUCT WRAP.
- 16" EXHAUST DUCT UP THROUGH ROOF TO EF-1 ON ROOF. ROOF MOUNTED KITCHEN EXHAUST FAN EF-1 AND CURB TO BE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. SEE EQUIPMENT SCHEDULE AND FAN/HOOD DETAILS FOR ADDITIONAL INFORMATION. ROOF CURB TO BE 20" REFER TO HOOD DRAWINGS.
- (5) 28"x12" SUPPLY DUCT RISER UP FROM 28"x12" DUCT COLLAR (TYPICAL OF 3). EXTEND DUCT UP TO MAIN SUPPLY
- 6 13"x11" UP THROUGH ROOF TO MUA-1 ON ROOF. ROOF MOUNTED KITCHEN MAKE-UP AIR UNIT MUA-1 AND CURB TO BE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. SEE EQUIPMENT SCHEDULE AND FAN/HOOD DETAILS FOR ADDITIONAL INFORMATION. PROVIDE EXTENSION AS REQUIRED FOR 10 FEET MINIMUM FROM EXHAUST
- 7EXTEND DUCTS FROM EACH CEILING EXHAUST FAN TO 10" ϕ AT EXHAUST DUCT THROUGH ROOF. TERMINATE ROOF - DUCT NO LESS THAN 10'-0" FROM ANY OUTSIDE AIR INTAKE. PROVIDE WEATHERPROOF CAP AND BIRDSCREEN.
- $\binom{8}{8}$ PROVIDE AN EQUIPMENT COMPATIBLE PROGRAMMABLE THERMOSTAT WITH NIGHT SETBACK FEATURE AND LOCKING COVER. $\stackrel{\smile}{\longrightarrow}$ MOUNT AT 48" A.F.F. COORDINATE EXACT LOCATION WITH OWNER ON SITE. (TYPICAL OF 2).
- $\frac{1}{9}$ EXHAUST HOOD TO BE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. SEE DRAWING SHEET H1 $\stackrel{\smile}{\smile}$ and mechanical equipment schedule for additional information. Volume of exhaust per u.l. listing for HOOD. SEE ARCHITECTURAL DRAWINGS FOR HOOD MOUNTING LOCATION AND DIMENSIONS.
- COORDINATE NEW RTU-2 AND MAU-1 LOCATION WITH EXISTING ROOF JOIST, COORDINATE WITH STRUCTURAL ENGINEER.
- PROVIDE TITUS 50F 26x18 TRANSFER AIR GRILLE IN SOFFIT ABOVE COOLER.
- FURNISH AND INSTALL GALVANIZED STEEL DUCTWORK, SIZES AS NOTED ON DRAWINGS. DUCTWORK SIZES ARE SHEET METAL SIZES. ALL NEW DUCTWORK SHALL HAVE 1" INTERNAL LINER.
- $\langle 13 \rangle$ Provide 120V smoke detector in return air duct to meet local code requirements. Provide interlock WIRING TO DE-ENERGIZE ALL RTU'S UPON DETECTION OF SMOKE.
- WALK-IN COOLER WITH R-404A REFRIGERANT AT 64 OZ. CAPACITY. VOLUME OF COOLER IS 690 CU. FEET, FLAME SPREAD IS 15, AND COMPRESSOR IS 1.5 H.P.
- $\langle 15 \rangle$ 1" EXTERNALLY INSULATED RETURN AIR DUCT. COORDINATE ROUTING WITH EXISTING STRUCTURE, PIPING, ETC.
- (16) CONTRACTOR SHALL ENSURE THAT EXHAUST FANS ARE AT LEAST 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES FOR $^\prime$ MAU-1, RTU-1, RTU-2, AND ADJOINING TENANT'S OUT SIDE AIR INTAKES.
- 17 PRE-PIPED FIRE SUPPRESSION SYSTEM SUPPLIED WITH HOOD AND PROVIDED BY OWNER. SEE SHEET H1 FOR DETAILS. MECHANICAL CONTRACTOR SHALL INSTALL OWNER PROVIDED FIRE SUPPRESSION GAS VALVE AND MAKE ALL ELECTRICAL CONNECTIONS. FIRE SYSTEM HOOKUP IS PROVIDED BY CAPTIVE AIRE.
- (18) VOLUME DAMPER AT DUCT CONNECTION TO MAIN SUPPLY AIR DUCT, TYPICAL.
- $\langle 19 \rangle$ SUPPLY AIR DIFFUSER CFM RATES SHALL BE ADJUSTED AS REQUIRED FOR PROPER AIR FLOW AROUND THE HOOD.
- $\langle 20 \rangle$ 8" SUPPLY AIR DUCT DOWN TO HOOD SUPPLY DIFFUSER. TRANSITION AS REQUIRED. BALANCE TO 130 CFM.
- $\langle 21 \rangle$ ANSUL SYSTEM PULL STATION, VERIFY EXACT LOCATION IN FIELD WITH LOCAL CODE OFFICIAL PRIOR TO INSTALLATION.
- PROVIDE COMPATIBLE REMOTE TEMPERATURE SENSORS. CONNECT TO CORRESPONDING THERMOSTATS. MOUNT 48" A.F.F. COORDINATE EXACT LOCATION WITH OWNER ON SITE.
- (23) CONTRACTOR TO VERIFY ORIENTATION OF EXISTING ROOFTOP UNITS AND LOCATION OF SUPPLY AND RETURN DROPS. NOTIFY TENANT'S ENGINEER WITH ANY QUESTIONS PRIOR TO BIDDING. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR CONTRACTOR'S FAILURE TO VERIFY SITE CONDITIONS PRIOR TO BIDDING.

MECHANICAL GENERAL NOTES

DUCTWORK SHALL BE RUN ABOVE CEILING AS HIGH AS POSSIBLE IN GENERAL LOCATIONS SHOWN, BUT SHALL CONFORM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDINGS. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO ANY INSTALLATION.

ALL SYMBOLS MAY NOT BE USED

M MOTORIZED DAMPER

THERMOSTAT

R.A.G. RETURN AIR GRILLE

M.D. MANUAL DAMPER

S.E. SMOKE EXHAUST

F.C. FLEXIBLE CONNECTION

F.D. FIRE DAMPER

DIFF. DIFFUSER

SMOKE DETECTION DEVICE

DUCT SMOKE DETECTOR

HVAC SYMBOLS

1

SUPPLY AIR DUCT OR GRILLE

CHS CHILLED WATER SUPPLY

CHR CHILLED WATER RETURN

HOT WATER RETURN

R.D. REFRIGERANT DISCHARGE LINE

RETURN AIR DUCT OR GRILLE

R.S. REFRIGERANT SUCTION LINE

—D— CONDENSATE DRAIN LINE

TE TOILET EXHAUST

HS HOT WATER SUPPLY

O.A. OUTDOOR AIR

R.A. RETURN AIR

S.A. SUPPLY AIR

- LOCATE EQUIPMENT AND FIXTURES APPROXIMATELY AS SHOWN CONFORMING TO ALL ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL SUPPORTS, HANGERS AND OPENINGS AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR CLEARANCES, AND EXACT LOCATIONS OF EQUIPMENT. ALL EQUIPMENT AND FIXTURES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND IN FULL ACCORDANCE WITH ALL APPLICABLE CODES.
- 3. CEILING MOUNTED AIR DEVICES SHALL BE APPROXIMATELY AS SHOWN. FOR EXACT LOCATION AND FRAME MOUNTING TYPES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. ALL CEILING DIFFUSERS TO BE 4-WAY UNLESS NOTED OTHERWISE BY AIRFLOW ARROWS, ON FLOOR PLAN. EXTEND FLEX DUCTWORK FROM DIFFUSERS. INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS AND CLAMPS TO BE USED AT BOTH ENDS.
- 4. DUCTWORK WITH TURNING VANES INSTALLED IN ALL ELBOWS OF SUPPLY AIR DUCTS, AIR EXTRACTORS AT ALL RECTANGULAR TAKE-OFFS, AND TWIST-IN TAP WITH MANUAL VOLUME DAMPER AT ALL ROUND BRANCH TAKE-OFFS TO AIR DEVICES.
- DUCT SMOKE DETECTORS REQUIRED IN UNIT RETURN AIR PLENUM SHALL BE IONIZATION TYPE AND SHALL BE APPROVED AND LISTED BY UL OR FM FOR DUCT INSTALLATION. ACTIVATION OF A DUCT DETECTOR SHALL CAUSE SHUTDOWN OF RTU. CONTROL AND INTERLOCK WIRING SHALL RUN IN CONDUIT WHICH SHALL BE SIZED TO SUIT THE NUMBER, TYPE AND SIZE OF CONDUCTORS AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. CONTROL AND INTERLOCK WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING PER NEC. ALL WIRING SHALL BE IN ACCORDANCE WITH NEC. PROVIDE ALL APPROPRIATE ACCESS PANELS.

- PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT WITH SUB-BASE AS NOTED ON PLAN. TRANSFORMERS AND 24 VOLT CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING. THERMOSTATS SHALL BE MOUNTED 48" A.F.F. AND SET POINT SHALL BE AS FOLLOWS: COOLING IN DINING 74°F; ALL OTHERS 78°F; HEATING 68°F FOR ALL. VERIFY FINAL LOCATION WITH OWNER.
- BUILDING AIR SYSTEMS SHALL BE BALANCED PER DATA INCLUDED ON THE DRAWINGS TO ACHIEVE RELATIVE AIR VOLUMES AS INDICATED ON THE DRAWINGS AND SCHEDULED HEREIN.
- 8. ALL DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS.
- WHERE SHOWN ON THE DRAWINGS, PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANTS OR SPLITTERS WITH HINGE AND ROD THRU SIDE OF DUCT WITH SET SCREW. VOLUME DAMPER HANDLES SHALL BE INSTALLED ON THE BOTTOM OF THE SPIN-IN FITTING AND SHALL HAVE RING SET IN FULL OPEN POSITION.
- 10. KITCHEN EXHAUST HOODS: EXTEND EXHAUST AND MAKE-UP AIR DUCT AS SHOWN AND TRANSITION AS REQUIRED TO HOOD TAPS. REFER TO HOOD DRAWINGS SHEET H1 FOR EXACT SIZES AND LOCATIONS. SLOPE EXHAUST DUCTS BACK TO KITCHEN EXHAUST HOOD. PROVIDE ACCESS DOORS AS REQUIRED FOR INSPECTION AND CLEANING. ENCLOSE KITCHEN EXHAUST DUCT IN FIRE BARRIER 15A FIRE RETARDANT DUCT WRAP AS REQUIRED BY CODE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. HEIGHT TO FAN OUTLET: 40" ABOVE ROOF. KITCHEN HOOD SUPPLY AND EXHAUST FANS SHALL BE INTERLOCKED WITH THE FIRE SUPPRESSION SYSTEM.
- 11. COORDINATE LOCATIONS OF EXHAUST FAN, MAKE-UP AIR UNIT, AND RTU'S WITH EXISTING STEEL BEAMS AND JOIST. COORDINATE WITH STRUCTURAL ENGINEER.
- 12. ALL EXHAUST OUTLETS WILL BE A MINIMUM OF 10'-0" FROM ANY AIR INTAKE.





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PROJECT INFORMATION:

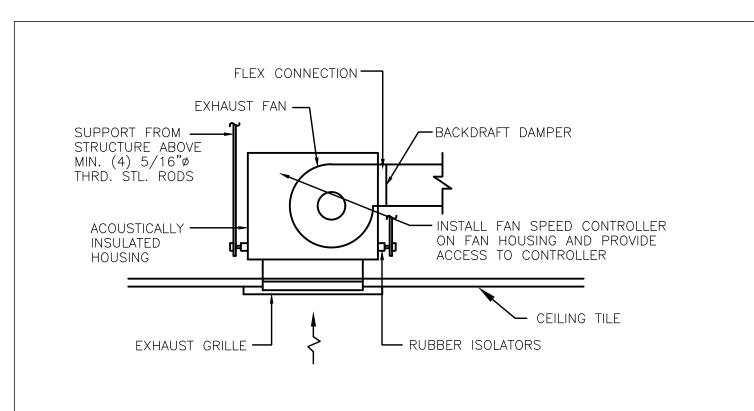


PROJECT NO.: 2021-0158 DRAWN BY: JJV CHECKED BY: DRC DATE:

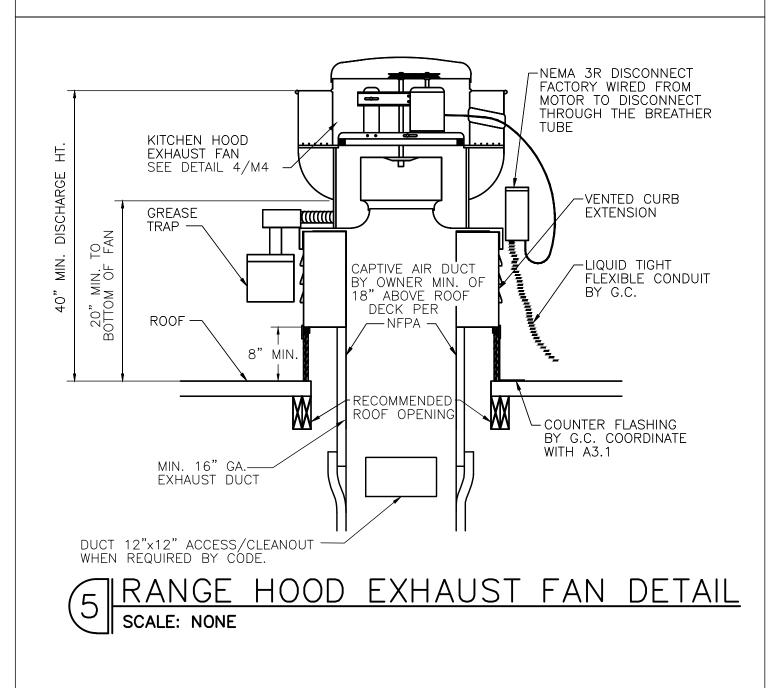
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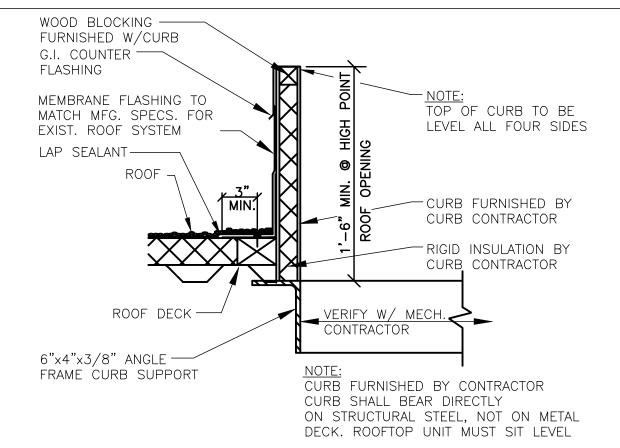
DATE: REVISION:

PROJECT LOCATION: LEE'S SUMMIT, MO

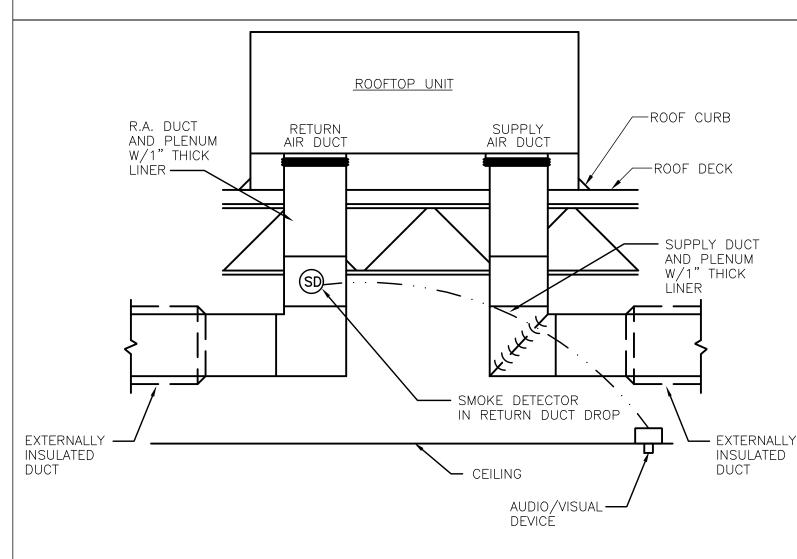


4 CEILING MTD. EXHAUST FAN SCALE: NONE

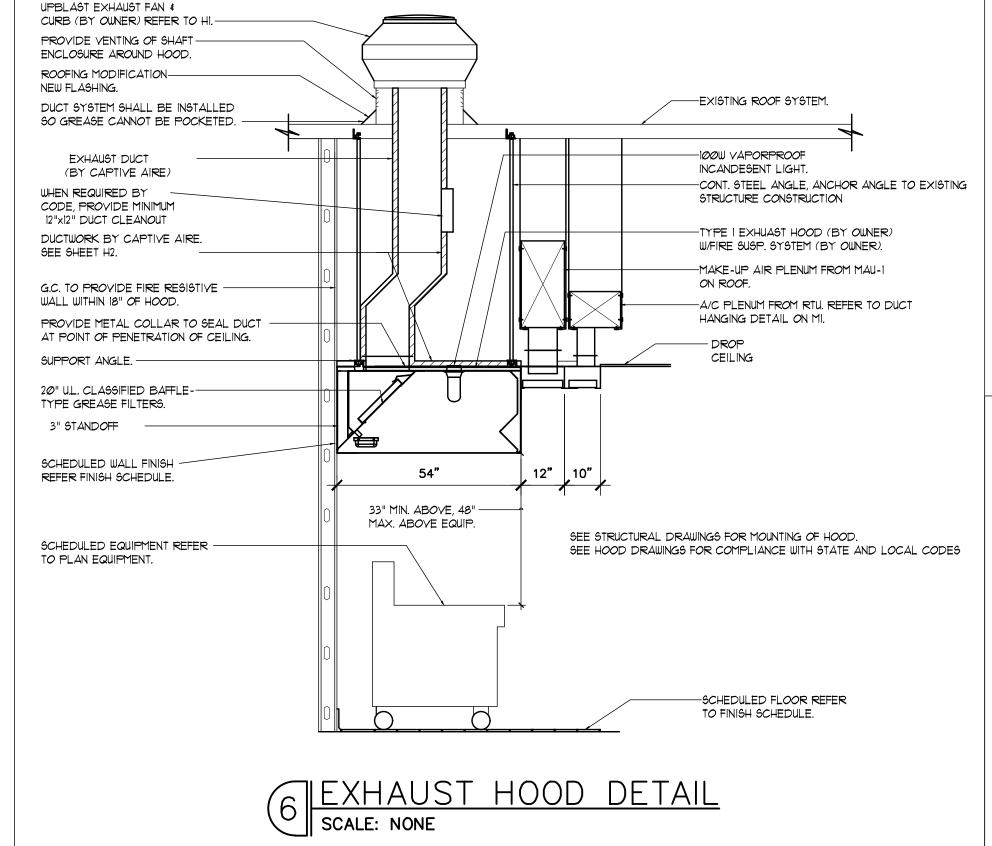


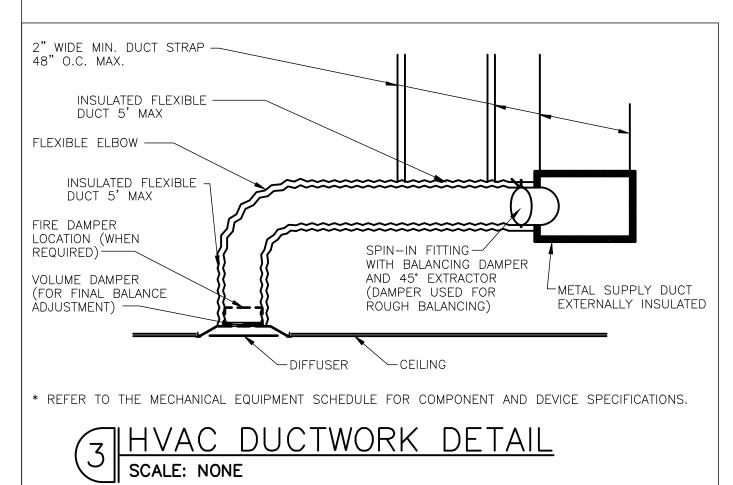


ROOF CURB SECTION



2 ROOFTOP UNIT MOUNTING DETAIL SCALE: NONE





						FA	N S	CHEDU	JLE				
MADIZ	TYPE	СҒМ	E.S.P.	DRIVE	MOTOR	DATA			SEDVES	EQUAL TO		UNIT WT.	NOTES
MARK	ITPE		(IN. W.C.)	DRIVE	HP	VOLTS	PH	STARTER	SERVES	MFR	MODEL		
EF-1	ROOF	2700	1.20	DIRECT	2.0	208	3	X-LINE	KITCHEN HOOD	CAPTIVE AIR	DU180HFA	218	1,2,3,5,8,9
EF-2	CEILING	150	0.125	DIRECT	1.3 A	120	1	X-LINE	TOILET	BROAN	L150	35	2,4,6,7
EF-3	CEILING	150	0.125	DIRECT	1.3 A	120	1	X-LINE	TOILET	BROAN	L150	35	2,4,6,7
MAU-1	ROOF	2160	0.60	DIRECT	2.5	208	3	X-LINE	KITCHEN HOOD	CAPTIVE AIR	A1-D.250-16Z	525	1,2,8,9
NOTES:													

- CAPTIVE AIRE SHALL PROVIDE MOTOR STARTER IN CAPTIVE AIRE WALL MOUNTED ELECTRICAL PACKAGE. . VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- . VENTED 20" ROOF CURB EXTENSION, GREASE GUARDS, GREASE TERMINATORS, GREASE CUP AND HINGE KIT PROVIDED WITH FAN INSTALLED MECHANICAL CONTRACTOR
- 4. PROVIDE WITH BACKDRAFT DAMPER 5. FAN TO BE RATED FOR UL 762.
- 6. PROVIDE WITH ROOF VENT CAP.
- . "ON/OFF" CONTROL WITH LIGHTS BY ELECTRICAL CONTRACTOR
- 8. INTÉRLOCK OPERATION SUPPLY FANS AND EXHAUST FANS: EF-1 WITH MUA-1, AND RTU-1. 9. MAKE-UP AIR FAN MUA-1 AND EXHAUST FAN EF-1 AND CURBS SHALL BE FUNISHED WITH THE HOOD BY OWNER, INSTALLED BY THE
- MECHANICAL CONTRACTOR.

		AIR BA	LANCE SCHE	DULE		
UNIT MARK	SUPPLY AIR*	OUTSIDE AIR	MAKE-UP AIR	EXHAUST AIR	RETURN AIR	NOTES
RTU-1	2400 CFM	540 CFM	_	_	1860 CFM	
RTU-2	2000 CFM	500 CFM	-	-	1500 CFM	
MUA-1	_	_	2,160 CFM	-	_	
EF-1	_	-	_	2,700 CFM	_	
EF-2	_	_	_	150 CFM	_	
EF-3	_	-	-	150 CFM	_	
BLDG. TOTAL	4,400 CFM	1,040 CFM	2,160 CFM	3,000 CFM	3,360 CFM	NET 200 CFM
				MAKE-UP: A/C UNITS FAN MAKE- EXHAUST: HOOD EXH GENERAL E BALANCE RESUI MAKE-UP	AUST EXHAUST	+1040 +2160 3200 CFM -2700 -3000 CF +3200
				EXHAUST		+3200 -3000 +200 CFM

	AIR DEV	ICE S	CHEDU	JLE	
PLAN MARK	*TITUS MODEL NO.	FACE SIZE	NECK SIZE	TYPE	NOTES
S1	TMS	24"x24"	SEE DWG	DIFF.	1,2,3,4,6
S2	PAR	24"x24"	SEE DWG	DIFF.	1,2,4
S3	TBD-30	48"	SEE DWG	DIFF.	2,3,4,5,6
S4	TMS	24"x24"	SEE DWG	DIFF.	1,3,7
R1	50F	24"x24"	SEE DWG	R.G.	1,2,3,4,6
NOTE	· · · · · · · · · · · · · · · · · · ·	•	•	•	

1. PROVIDE SQUARE NECK TO ROUND ADAPTER AS REQUIRED (FOR FLEX CONNECTION)

- 2. FRAME SHALL FIT LAY-IN CEILING MODULE
- 3. MAXIMUM NC = 30
- 4. WHITE FINISH UNLESS OTHERWISE SPECIFIED.
- 5. 12" INLET, 3 SLOT, 1" SLOT WITH, LAY-IN CEILING.
- 6. GRILLES IN SALES, ORDERING, SEATING AND CORRIDORS TO BE A FLAT BLACK FACTORY FINISH.
- 7. FRAME SHALL FIT HARD CEILING MODULE

* OR APPROVED EQUAL

XISTING RTU SCHEDULE (RTU-1)	
MISTING INTO SCITEDOLE (INTO-1)	

		1 \ 1	00		.001		(,,		' /		
MODE	EL NO.	UNIT	WT.	UNIT SIZE	VOLTS	OLTS HZ PI		МСА	моср	MIN. OUTSIDE AIR CFM	
			855	6.0 TONS	208	60	3	33	45	540	
OOLING	HEATING	мвн	EVAP.	COIL	COND	CONDENSER			FIL1	ERS	
APACITY	IN/Ol	JT	SIZE	ROWS	FAN	мото	DR [NO.	SI	ZE	TYPE
70.3 MBH	135.0/1	10.7	_ SQ.FT.	_	-	_		-		_	T/A
	MODE RKKN- 12.9 OOLING APACITY 70.3	MODEL NO. RKKN-B072 12.9 EER OOLING HEATING APACITY IN/OU	MODEL NO. UNIT RKKN-B072 12.9 EER OOLING HEATING MBH APACITY IN/OUT	MODEL NO. UNIT WT. RKKN-B072 12.9 EER OOLING HEATING MBH EVAPAPACITY IN/OUT SIZE	MODEL NO. UNIT WT. SIZE RKKN-B072 12.9 EER OOLING HEATING MBH EVAP. COIL APACITY IN/OUT SIZE ROWS 70.3	MODEL NO. UNIT WT. UNIT SIZE VOLTS RKKN-B072 12.9 EER OOLING HEATING MBH EVAP. COIL CONE PAPACITY IN/OUT SIZE ROWS ROUTH ROUT SIZE ROWS ROUTH ROUTH ROUTH SIZE ROWS	MODEL NO. UNIT WT. SIZE VOLTS HZ RKKN-B072 12.9 EER OOLING HEATING MBH EVAP. COIL CONDENS APACITY IN/OUT SIZE ROWS FAN MOTO	MODEL NO. UNIT WT. UNIT SIZE VOLTS HZ PH RKKN-B072 12.9 EER OOLING HEATING MBH EVAP. COIL CONDENSER PAPACITY IN/OUT SIZE ROWS FAN MOTOR	MODEL NO. UNIT WT. UNIT SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE	RKKN-B072 855 6.0 TONS 208 60 3 33 45 OOLING APACITY IN/OUT SIZE ROWS FAN MOTOR NO. SI	MODEL NO. UNIT WT. UNIT SIZE VOLTS HZ PH MCA MOCP MIN. OF AIR OF APACITY IN/OUT SIZE ROWS FAN MOTOR NO. SIZE

RTU SCHEDULF (RTU-2)

			1110		'I ILL		- (' \	ı					
MFR.			EL NO.	UNIT	WT.	UNIT SIZE	VOLTS	HZ	РН	мса	моср	MIN. OU AIR C	
TRAN	E		0060 O SEER		785	5 TONS	208	60	3	29	40	500	
TOTAL	CC	OLING	HEATING	мвн	EVAP.	COIL	CONE	ENS	ER		FILT	TERS	
CFM	CA	PACITY	IN/O	JT	SIZE	ROWS	FAN	MOTO	DR 🛭	NO.	SI	ZE	TYPE
2000	1	60.0 MBH	120/85		8.15 SQ.FT.	2	C	.40		2	20x	35x2	T/A

- . PROVIDE & INSTALL 100% ECONOMIZER PACKAGE AT RTU-1,2. 2. CONTRACTOR SHALL PROVIDE UNITS w/PRE-FABRICATED (14") ROOF CURB.
- 3. PROVIDE UNIT WITH 7-DAY PROGRAMMABLE THERMOSTATS WITH NIGHT
- SET BACK CAPABILITIES. 4. PROVIDE UNITS WITH ANTICYCLE TIME DELAY AND HIGH AND LOW
- PRESSURE PROTECTION.
- 5. ADJUST O.A. DAMPERS AT RTU-1 AND RTU-2 TO CFM SCHEDULED.
- 6. INTERLOCK RTU-1 WITH EF-1 AND MUA-1. RTU-1 AND
- MUA-1 MUST BE OPERATING WHEN EF-1 IS OPERATING.
- 7. VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- 8. EQUIPMENT SHALL BE TRANE WITH MODELS AND CONFIGURATIONS AS SHOWN. NO SUBSTITUTIONS ALLOWED. PLEASE REFER TO THE TRANE NATIONAL ACCOUNT PROGRAM SCHEDULE BLOCK FOR DETAILS ON PRICING AND ORDERING OR CONTAT:
 - CLINT MORGAN NATIONAL ACCOUNTS MANAGER TEXAS DISTRICT TRANE COMMERCIAL SYSTEMS
 - 1617 HUTTON DRIVE, CARROLLTON, TX 75006 OFFICE 469-758-3179 MOBILE: 469-597-4836 EMAIL: CLINT.MORGAN@TRANETECHOLOGIES.COM

RELEASE FOR CONSULTANT: AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES



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PROJECT INFORMATION

PROJECT NO.: 2021-0158 DRAWN BY: JJV CHECKED BY: DRC DATE: FOR PERMIT & BID

REVISION: DATE:

06-10-21

PROJECT LOCATION: LEE'S SUMMIT, MO

DIVISION - 15 MECHANICAL SPECIFICATIONS

- A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.
- REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CON-STRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOW-ANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS. DRAWINGS OR AS DIRECTED BY THE OWNER. AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICA-TIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHI

- A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHER-WISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COM-PLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCON-TRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

- A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PRO-TECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL
- B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSUR-ANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CON-JUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFER-ENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS. AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

- A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.
- SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS. THE SHOP DRAWINGS. DES-CRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PRO-VIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

HEATING, VENTILATING AND AIR CONDITIONING

WITHIN FACTORY ROOF CURB.

- A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS. INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CON-DITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY
- B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

A. 1. ROOFTOP UNITS: FURNISH HEATING AND AIR CONDITIONING AS SCHEDULED. UNIT TO BE COMBINED PACKAGED SYSTEM, ALL SEASON EQUIPMENT, CONSISTING OF GAS HEATING SECTION, BLOWER, DX COIL, COMPRESSOR(S), AND AIR COOLED CONDENSING SECTION. UNIT SHALL BE

DESIGNED FOR DOWN FLOW ARRANGEMENT WITH ALL DUCT PENETRATIONS

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COM-

PLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING

- 2. FEATURES: UNITS TO BE WOUND FOR VOLTAGE AND PHASE AS SCHEDULED. HEAVY GAUGE ALUMINIZED STEEL, STAINLESS STEEL OR COATED HEAT EXCHANGER WILL BE ACCEPTABLE. UNIT MUST BE A.G.A. APPROVED FOR OUTDOOR APPLICATION. DIRECT EXPANSION COIL WITH FACTORY INSTALLED EXPANSION VALVE — BLOWER SHALL BE OF THE CENTRIFUGAL BELT DRIVEN OR MULTI-SPEED DIRECT DRIVE TYPE WITH FORWARD CURBED BLADES - BLOWER AND MOTOR ISOLATED FOR QUIET OPERATION - BUILT IN MOTOR STARTER WITH OVER VOLTAGE PROTECTION. HERMETICALLY SEALED COMPRESSOR WITH INHERENT OVERLOAD PROTECTION THERMOSTAT - NON-PRORATED 5-YEAR WARRANTY ON COMPRESSOR AND 10-YEAR WARRANTY ON HEAT EXCHANGER - CONDENSER COIL CONSTRUCTED OF COPPER TUBING WITH ALUMINUM FINS - CRANKCASE HEATERS - BUILT IN MOTOR STARTERS ELECTRIC IGNITION - HIGH, LOW PRESSURE CUTOUT ON COMPRESSOR - SHUTOFF VALVES ON LIQUID AND SUCTION LINES - SHORT CYCLE TIMER PROTECTION - FILTER -DRYER - VIBRATION ISOLATION. UNIT FACTORY CHARGED
- 3. ACCESSORIES: SUPPLY AND RETURN FILTER CASING ASSEMBLY TWO COMPLETE SETS OF THROWAWAY TYPE FILTERS. FILTERS SHALL BE 2" THICK. ONE SET TO BE REMOVED AND REPLACED JUST PRIOR TO FINAL INSPECTION - FULL ECONOMIZER PACKAGE WITH LOW LEAKAGE FRESH AIR STANDARD RETURN AIR DAMPERS AND DAMPER MOTOR. - MINIMUM POSITION SETTING - PROVIDE MANUFACTURER'S INTERFACE AS REQUIRED FOR OPERATION WITH THERMOSTAT AS SPECIFIED. PROVIDE MOUNTING CURB APPROVED BY NATIONAL ROOF CONTRACTORS ASSOCIATION TO SUPPORT THE ENTIRE ASSEMBLY WITH NAILER STRIP AND AIR TIGHT GASKET.
- ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH PROGRAMMABLE DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL

COOLING: 75°F MAXIMUM OCCUPIED COOLING TEMPERATURE 85°F COOLING NIGHT SETBACK.

HEATING: 70°F MAXIMUM OCCUPIED HEATING TEMPERATURE 60°F HEATING NIGHT SETBACK.

FAN: CONTINUOUS IN OCCUPIED AND RECOVERY MODE AND WITH HEATING OR COOLING EQUIPMENT IN UNOCCUPIED MODE.

DEADBAND: CAPABLE OF MAINTAINING A 5°F DEADBAND.

LEAST 10 HOURS WITHOUT POWER.

CLOCK: 7 DAY CAPABLE OF 7 DIFFERENT DAY SCHEDULES. OVERNIGHT: HAVE A 2 HOUR OVERRIDE ACCESSIBLE TO MANAGER. BACKUP: CAPABLE OF MAINTAINING PROGRAMMED SETTING FOR AT

F. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

43" TO 60"

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

OUCT SIZE	<u>GAUGE</u>
2" AND LESS	NO. 26 U.S. GAUGE
3" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
5" AND OVER	NO. 18 U.S. GAUGE

B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

SIZE	<u>METHOD</u>
17" AND LESS	"S" AND DRIVE CLEATS
18" TO 30"	"L" STANDING SEAMS ON 3'-0" CENTERS
31" TO 54"	1-1/4" STANDING SEAMS ON 3'-0" CENTERS

(16 GA.). ALL SEAMS, JOINTS, AND PENETRATIONS SHALL HAVE A LIQUID TIGHT, CONTINUOUS, EXTERNAL WELD.

GREASE DUCTS SHALL BE BLACK CARBON STEEL NOT LESS THAN 0.054"

- 1. THE KITCHEN HOOD EXHAUST DUCTWORK SHALL BE ENCLOSED IN A RATED ENCLOSURE PER CODE.
- 2. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE: -ALL NECESSARY TRANSITION AND CONNECTION FITTINGS TO THE HOOD AND EXHAUST FANS.
- ALL CLEAN-OUT ACCESS PANELS AS REQUIRED BY CODE. - ALL ELBOW AND TRANSITION FITTINGS.
- ALL HANGERS AND SUPPORTS. -SHOP DRAWINGS SHOWING PROPOSED FABRICATION AND INSTALLATION

COORDINATED WITH EXISTING FIELD CONDITIONS AND OTHER TRADES. ROUND LOW PRESSURE DUCTS SHALL BE SPIRAL WOUND AS MANUFACTURED BY UNITED SHEET METAL COMPANY OR SHOP FABRICATED ROUND DUCTS WITH PITTSBURGH LOCK LONGITUDINAL SEAMS. GAUGES FOR SHOP FABRICATED DUCTS

NO. 20 GAUGE

SHALL BE AS FOLLOWS: UP TO 12" IN DIAMETER NO. 26 GAUGE 13" TO 30" NO. 24 GAUGE 31" TO 42" NO. 22 GAUGE

- ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1-1/2 TIMES DUCT DIAMETER AND MAY BE SMOOTH ELBOWS OR 5 PIECE 90 DEGREE ELBOWS AND 3 PIECE 45 DEGREE ELBOWS. JOINTS OF ROUND DUCTS SHALL BE SLIP TYPE WITH A MINIMUM OF 3 SHEET METAL SCREWS.
- 1. ALL EXPOSED ROUND LOW PRESSURE DUCTWORK SHALL BE INTERNALLY LINED. 2. ALL LOW PRESSURE DUCTWORK SHALL BE EXTERNALLY SEALED USING UNITED SHEET METAL, MMM EC-800, OR HARDCAST DUCT SEALER INSTALLED IN THE JOINTS PRIOR TO CLOSURE. ADDITIONALLY SEAL ALL EXTERNAL TRANSVERSE JOINTS AND FITTING CONNECTIONS EXTERNALLY.
- C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MIN. 1" (R-5) THICK EXTERNAL THERMAL INSULATION EXCEPT DUCT LINED FOR ACOUSTICAL PURPOSES. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL
- D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.
- E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

- A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.
- B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

- CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.
- B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUB-CONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE

CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH

- B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.
- C. FIRE DAMPERS SHALL BE SUPPLIED AND INSTALLED BY HVAC CONTRACTOR AT DUCT PENETRATIONS IN FIRE RATED WALLS, CEILINGS, AND ROOFS AS REQUIRED. COORDINATE WITH LANDLORD, LOCAL FIRE MARSHALL AND ALL CODES AND GOVERNING AUTHORITIES HAVING JURISDICTION.
- D. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER-COLEMAN AIR TURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER-LINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL

METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

SUPPORT OF DUCT SYSTEM

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE AFOREMENTIONED MANUAL ARE ADHERED TO.

DUCTS SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'-0" O.C. STRAIGHT DUCTS UP TO 59" MAX. DIMENSIONS SHALL BE SUPPORTED 6'-0" O.C. DUCTS OVER 60" MAX. DIMENSIONS SHALL BE SUPPORTED AT 4'-0" O.C.

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNEC-TIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATIS-

FACTION OF TENANT, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCOR-DANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

A. AIR DISTRIBUTION SYSTEMS: 1. INSPECT INSTALLATION AND VERIFY CONFORMITY TO DESIGN, VERIFY THAT

- SUPPLY, RETURN, AND EXHAUST DUCTS HAVE BEEN PRESSURE—TESTED FOR LEAKAGE AS RECOMMENDED IN THE APPROPRIATE SMACNA STANDARDS. 2. VERIFY THAT VOLUME AND FIRE DAMPERS ARE PROPERLY LOCATED AND FUNCTIONAL.
- 3. VERIFY THAT SUPPLY, RETURN, EXHAUST AND TRANSFER GRILLES, REGISTERS AND DIFFUSERS ARE INSTALLED AND OPERATING PROPERLY.

B. VERIFY THAT CONTROL COMPONENTS ARE INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND ARE FUNCTIONING AS INTENDED, INCLUDING ELECTRICAL POWER, CONTROL AND INTERLOCK WIRING, DAMPER SEQUENCES SMOKE DETECTORS, ETC.

- C. UPON COMPLETION OF THE INSTALLATION AND START-UP OF THE MECHANICAL EQUIPMENT, TEST, ADJUST AND BALANCE SYSTEM COMPONENTS TO
- OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING.
- D. BEFORE FINAL ACCEPTANCE IS MADE, FURNISH TO THE ARCHITECT THE FOLLOWING DATA:
- 1. SUMMARY OF MAIN SUPPLY, RETURN AND EXHAUST DUCT PILOT TUBE TRANSVERSES AND FAN SETTINGS. 2. AIR QUANTITIES AT EACH SUPPLY, RETURN, RELIEF AND EXHAUST AIR
- HANDLING DEVICE. 3. AIR PRESSURE READINGS ENTERING AND LEAVING EACH SUPPLY FAN AND EXHAUST FAN.
- 4. MOTOR CURRENT AND VOLTAGE READINGS AT EACH EQUIPMENT MOTOR. 5. TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS CONFORMING TO AABC AND NEBB REQUIREMENTS. THE REPORT SHALL INCLUDE AIR FLOW SCHEMATIC DIAGRAMS INDICATING AND IDENTIFYING TEST LOCATIONS SUCH AS DUCT TRANSVERSE, OUTLET READINGS, PRESSURE READINGS AND TEMPERATURE READINGS, AND SHALL BE REFERENCED TO THE RECORDED DATA ON THE
- E. MAKE AN INSPECTION IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE, AND AT THAT TIME MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEM COMPONENTS, TO PRODUCE THE PROPER CONDITIONS IN EACH SPACE.
- F. INSTRUCTION: THE CONTRACTOR SHALL INSTRUCT THE BUILDING OPERATING PERSONNEL IN THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT.

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

EMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:

- A. TELEPHONE THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT AS LISTED ON SHEET A-1 OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.
- TEMPORARY WATER WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIRE-MENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.
- TEMPORARY ELECTRICITY TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.
- TEMPORARY HEAT WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.
- ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE

TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY

E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD

NOTE FOR TENANT GENERAL CONTRACTOR IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

RELEASE FOR

DEVELOPMENT SERVICES

CONSULTANT: AS NOTED ON PLANS REVIEW

5501 LBJ FREEWAY, 5TH FLOOR DALLAS, TX 75240 TELEPHONE: (972) 686-6500 FAX: (972) 686-650

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STRUCTURES BUILT FROM SUCH WITHOUT THI

WINGSTOP RESTAURANTS, INC. ALL RIGHTS RESERVED PROJECT INFORMATION

DRAWN BY: JJV CHECKED BY: DRC DATE: FOR PERMIT & BID 06-10-21

PROJECT NO.: 2021-0158

REVISION: DATE:

PROJECT LOCATION:

LEE'S SUMMIT, MO

Product Data & Installation Guide

1. Product Description
FireMaster® FastWrap XL is a flexible blanket composed of nigh temperature fibers classified for applications to 2192°F 1200°C) and fully encapsulated in a durable glass fiber reinforced foil facing for easy handling and installation. FastWrap XL is UL Classified and ULC Listed in various systems for 1 and 2 hour fire resistive enclosure protection, reduced clearance for kitchen exhaust ducts, electrical circuit protection, and as a component in various UL firestop designs for fire resistance rated floors, ceilings, and walls. The core fibers in FastWrap XL are manufactured using Thermal Ceramics patented Superwool® fiber which is an alkaline-earth silicate wool with low biopersistence and therefore increased safety for installers. FastWrap XL is under UL's Follow-Up Service Program to ensure the consistent quality essential to this life-

Product Features · Zero clearance to combustibles at any location Thin and Lightweight at 1-1/2" (38mm) thick, 6 pcf (96 kg/m³

· Contours easily to complex duct designs Optimized installation with inside layer butt joints on grease duct enclosures per ASTM E 2336 Fully foil encapsulated for fast and clean installation

· Completely inorganic and non-combustible

· Contains 2192°F (1200°C) rated fibers for added safety · Wide variety of through penetration firestop systems Resistant to mold growth Good sound absorption

2. Applications

safety application.

 1 and 2 hour enclosure and firestop system for kitchen exhaust ducts · Zero clearance from enclosure to combustibles for kitchen · 1 and 2 hour enclosure and firestop system for hazardous exhaust ducts, pressurization ducts, clothes dryer exhaust ducts, trash and linen chutes, and other fire rated HVAC

 1 hour circuit integrity protection for cable trays and steel 5. Listings/Building Code Reports Engineered solutions and tested systems for fire protection of structural steel beams and columns, and storage vessels

per ASTM E119, ISO 834, and UL1709 3. Physical Characteristics

Product	Unit	Size	Units/ Ctn.	Wt./ Ctn.
FastWrap XL	Roll	1-1/2" x 24" x 25'	1	37.5 lb
FastWrap XL	Roll	1-1/2" x 48" x 25'	1	75 lbs.
FastWrap XL Collar	Roll	1-1/2" x 6" x 25"	4	37.5 lb
Color	White	e blanket with silver f	oil encaps	ulation

FastWrap[®] XL mercial Kitchen Grease Duct Enclosure System Air Ventilation Duct Enclosure System

4. Performance Specification

ection 16.4 - Internal Fire Test

ection 16.5 - Fire Engulfment

Ventilation Duct Enclosure

ease Duct Enclosure per ASTN 2336 and AC101

ase Duct Insulation Test Protoco

ise Duct Insulation (2003 IM

ough Penetration FireStop stern per ASTM E814, UL 1479

entilation Duct Enclosure System

rease Duct Clearances

Reference Standard



STM E136 Pass

ASTM C518 7.3 per layer

STM F2336

· Carbon steel or stainless steel banding material, minimum 1/2" (13mm) wide, minimum 0.015" (0.4mm) thick, with steel FastWrap XL insulation wrap is secured to the duct with mini-Hand banding tensioner and crimping tool · Minimum 12 gage (3mm) steel insulation pins; steel speed clips, minimum 1-1/2" (38mm) square or 1-1/2" (38mm) diameter, or equivalent sized cup-head pins:

· Capacitor discharge stud gun FireMaster F2-HT-XL3 Prefabricated Door or Field Fabricated 1) Banding (Figure 1) - Minimum 1/2" (13mm) wide carbon Door Hardware An approved firestop sealant

To minimize waste, FastWrap XL blanket should be rolled out tautly before measuring. Cut edges of the blanket shall be taped with aluminum foil tape to prevent exposed edges of the insulation absorbing grease and moisture in the event of a compromised grease duct joint. Overlaps are used to block heat transfer in the event of duct deformation resulting from thermal expansion. Filament tape is suggested to temporarily hold the blanket in place until steel banding or pinning is installed to permantely secure the blanket. A. First Layer / Single Layer Installation

enclosure (Figure 1) - The first layer of FastWrap XL is cut to completely wrap around the perimeter of the duct with enough excess to provide a tight butt joint where the blanket ends meet. The joints of adjacent blankets are firmly butted against each other. 2) Overlaps required for ISO 6944 compliant single layer air ventilation duct enclosure and two layer grease duct enclosures installed in Canada (Figure 1) - The layer of

1) Butt Joint for ASTM E2336 compliant grease duct

astWrap XL applied directly to the duct is cut to completely wrap around the perimeter of the duct with enough excess to overlap itself by a minimum of 3" (75mm). The joints of adjacent blankets must overlap each other by a minimum 3" (75mm). B. Second Layer Where Required - (Figure 1) The second layer of FastWrap XL is cut to completely wrap

around the perimeter of the first layer, with enough excess to

overlap itself not less than 3" (75mm). Joints in the second

layer should be staggered a minimum of 6" (50mm) from joints on the inner layer. Adjacent blankets on the second layer must overlap each other by not less than 3" (75mm). As an alternative to overlaps on adjacent blankets installed on the second layer, adjacent blankets can be tightly butt jointed and wrapped with a 6" (152mm) wide FastWrap XL collar centered over the

C. 2 & 3 Sided Wrap Installation (Figure 5) When space does not allow for a complete wrap applied to the duct on all four sides, the FastWrap XL is approved for 2 or 3 sided installations with mechanical attachment to a rated concrete or CMU assembly. The FastWrap XL is installed on the 2

1 Minimum 12 gage (3) steel insulation pins

or 3 sides of the duct as described in one of the installation FastWrap XL must be stored in a dry warehouse environment—methods described in sections A or B with the starting edge of the blanket attached to the concrete or CMU assembly and then wrapped around the duct until the other end can be attached to the other concrete or CMU assembly, thus encap sulating the duct with insulation around all accessible sides. The blanket is to flange out onto the concrete or CMU assem bly. It shall be secured to the adjoining assembly with min 3/16" (5mm) diameter, 4" (102mm) long concrete anchors, footed to a minimum 1-1/2" (38mm) wide x 3/16" (5mm) thick steel strip/strap with pre-drilled holes spaced a maximum 10" (254mm) on center. The steel strip is to be placed around the entire perimeter of the duct in the exposure area. The

mum 1/2" (13mm) wide steel banding 10-1/2" (270mm) centers. The ends of the banding are to loop into and around the steel strips/straps that foot the blanket to the concrete floor or wall, and tightened down. D. Mechanical Attachment Methods for Insulation Wrap steel or stainless steel banding, 0.015" (0.4mm) thick, is placed around the entire perimeter of the insulated duct on maximum 10-1/2" (270mm) centers and 1-1/2" (38mm) from each blanket edge or 1-1/2" (38mm) from each collar edge when using the butt joint and collar method. When banding filament tape can be used to temporarily hold the blanket in

FastWrap XL in place against the duct, but not cause any cutting or damage to the blanket. 2) Pinning (Figure 4) - If the pin pattern shown in Figure 4 is used on all faces of the duct, then 12 Gage (0.4mm) insulation pins may be used in lieu of steel banding. To prevent blanket sag, 12 Gage (0.4mm) pins installed as shown in Figure 4 are required in addition to banding on the bottom f horizontal ducts where the bottom dimension is larger than 24" (610mm), or on one side of vertical ducts where one dimension is larger than 24" (610mm). Pins that extend beyond the outer blanket layer shall be turned down or the excessive length cut off to prevent sharp edges. Shoot through pins (cup head pins) may be used in con-E. Field Fabricated Access Doors 1) Field Fabricated Access Doors (Figure 3) - Each access

door assembly has four threaded rods 1/4 inch (6mm) in

place until the banding is applied. The banding is placed

diameter and 5" (127mm) in length, with one welded to each corner of the door opening. Hollow steel tubes, 4-1/2" 14mm) long are installed outside the access cover plate and over the threaded rods. Four 12 gage (3mm) and 4-1/2" (114mm) long steel insulation pins are welded to the access cover plate to allow for installation of the three layers of FastWrap XL. One layer of FastWrap XL is cut to approximately the same size as the access panel, and impaled over the insulation pins on the panel. A second layer of FastWrap XL is cut so as to overlap the first layer a minimum of 1-1/2" (38mm). It is essential that the first and second layer fit tightly against the surrounding wrap with no rrough openings. The third and outside layer should be cut to overlap the second insulation layer by a minimum of 1-1/2" (38mm). Minimum 1-1/2" (38mm) round or square insulation clips are installed on the insulation pins to secure he three layers of insulation to the access cover plate. Al

cut edges of the insulation shall be taped with minimum 3

(75mm) wide aluminum foil tape. Wing nuts and washers

against the hollow steel tubes to seal the access cover plate to the duct. 2) Field Insulated DuctMate Access Doors (Figure 3) -DuctMate Ultimate and F2 doors are approved for use with FastWrap XL, and shall be installed according to DuctMate Industries installation instructions. A 16 gage (1.4mm) (25 mm x 1.5 gage strap)

outer cover plate is required, which is 6" (152mm) larger in width and length than the DuctMate door, and which has holes drilled to match the threaded rods on the DuctMate door. Four 12 gage (3mm) insulation pins are welded to his outer cover plate, and three layers of FastWrap XL are 2) HVAC ducts: Trapeze support hangers shall be spaced on impaled and fastened using minimum 1-1/2" (38mm) insulamaximum 60 in. (1500 mm) centers. Hanger rods or straps shall be anchored with steel drop in or wedge expansion tion clips. The insulation layer adjacent to the DuctMate door is cut to the size of the door and each successive layer type masonary anchors. No additional protection is has an overlap of 1-1/2" (38mm) over the adjacent layer. It required for hangers and supports meeting the requireis essential that the first and second layer fit tightly against

against the duct with wing nuts and washers.

a DuctMate[®] F2 access door, cut-out template, an outside

nsulation package, and installation instructions.

from the fire rated assembly.

ments of the Table below.

1) Grease ducts: Trapeze support hangers shall be spaced

on maximum 60 in. (1500 mm) centers. Hanger rods or

straps shall be anchored with steel drop in or wedge expan-

required for hangers and supports meeting the require-

G. Support Hanger Systems

ments of the Table below. the surrounding wrap with no through openings. All edges of insulation blanket must be sealed with minimum 3" (75mm) wide aluminum foil tape. The insulated cover plate is installed over the Ductmate threaded rods, and held tight 3) FireMaster Factory Built Access Doors (Figure 3) FireMaster doors are tested per ASTM E2336 and are intended for use in two layer installations. FireMaster access doors come complete and ready for installation with

cover plate with proper signage, an as tested FastWrap XL

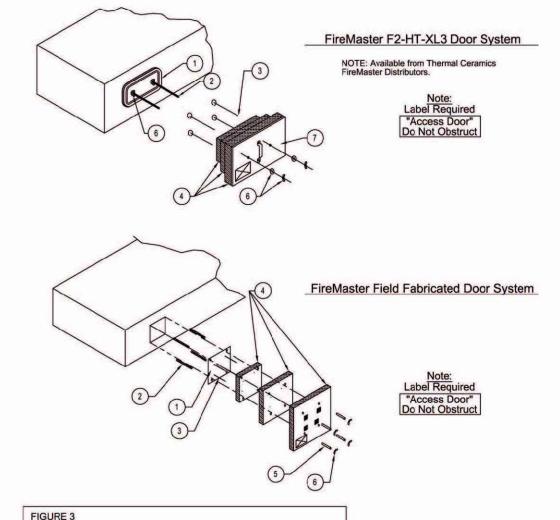
8. Maintenance and Repair No maintenance is required when installed in accordance with F. Through Penetration Firestop System (Figure 2) - When Thermal Ceramics installation instructions. If damage is limitthe duct penetrates a fire rated assembly an approved fire ed to the foil facing, aluminum foil tape can be used to repair stop system must be employed. Figure 2 provides a com- the foil facing. If an area of blanket is found to be damaged plete list of UL / ULC firestop design listings which can be the following procedure must be incorporated. If the damaged found in the Certifications Directory at www.ul.com for US area is larger than 8" (203mm) x 8" (203mm) the entire wrap systems and www.ulc.ca for Canadian systems. Prior to section must be removed and replaced according to Thermal installing any firestop system the surfaces of all openings and penetrating items must be clean and dry. The FastWrap small (less than 8" (203mm) x 8" (203mm)), the damaged area KL core blanket (or mineral wool where allowed by the must be cut away and replaced with a new section 1" (25mm) firestop design listing) must be compressed into the annular. larger in length and width than the cut out are, such that the space. The packing material must be recessed a minimum new section can be compressed tightly into the cut out area. lepth from the surface of the concrete or gypsum assembly. All cut edges of the new section must be taped and sealed with The recessed opening must be filled with a minimum thick-aluminum foil tape. The new section must be held in place with ness of an approved firestop sealant. The packing material either pinning or banding per Thermal Ceramics installation type and compression, minimum recess (typically 1/4" instructions.

(6mm)), and approved firestop sealant and thickness (typically 1/4" (6mm)) shall be as specified in an approved UL / cally 1/4" (6mm)) shall be as specified in an approved UL / ULC firestop design listing. When there is not sufficient annular space around the duct to run the FastWrap XL enclosure system continuous through the fire rated assemble. closure system continuous through the fire rated assembly. the enclosure may terminate above and below the "For cersonal protective equipment recommendations see the MSDS floor/ceiling assembly or on either side of a wall assembly as hown in Figure 2. When this method is used, the FastWrap

Thermal Ceramics is a tracemark of Morgan Cruzible Company pls. FireMaster and FastWrap

XL must be mechanically attached on either side of the fire rated assembly using one of the attachment methods Ceramics no. and are distributed by authorized distributors. described in Section D, spaced a maximum of 1-1/2" (38mm) DuotMate is a trademark of Duotmate Industries Inc

FireMaster®FastWrap®XL Access Door Systems Commercial Kitchen Grease Duct Enclosure System



DuctMate F2-HT Access Door or 16 Gage (1.5) Field Fabricated Access Door.
 All Thread Rods.
 Installation Pins with Speed Clips.
 Three Layers of FireMaster FastWrap XL Blanket with Minimum 1" (25) Overlaps

Wing Nuts and Washers

16 Gage (1.5) Outer Cover Plate Labeled "ACCESS DOOR - DO NOT OBSTRUCT"

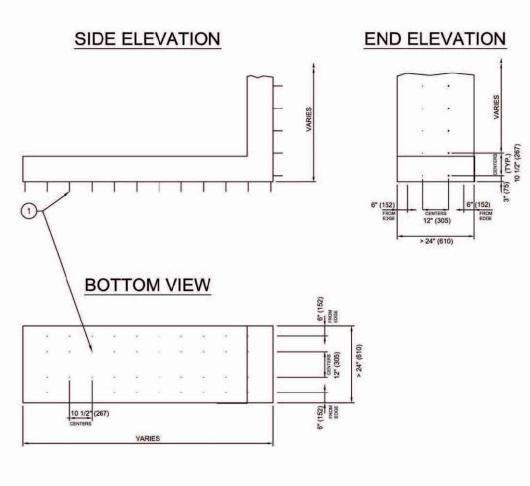
and All Edges Sealed with Aluminum Tape.

Spool Pieces for Threaded Rods

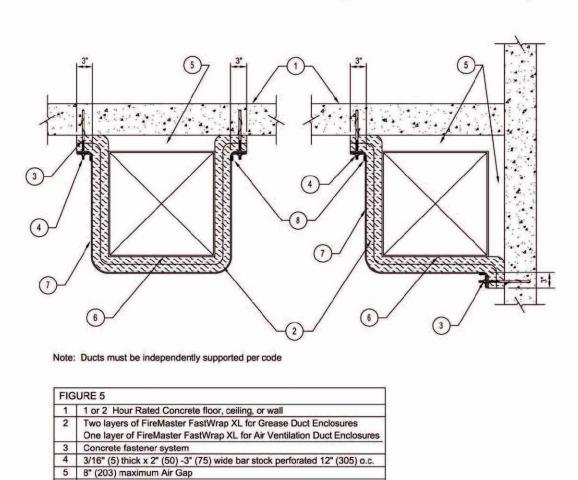
2. COMPLIANT TO THE FOLLOWING CODES:

2003 AND 2006 INTERNATIONAL MECHANICAL CODES 2006 UNIFORM MECHANICAL CODE.

FireMaster® FastWrap®XL TYPICAL INSULATION PIN LAYOUT FOR DUCT SPANS > 24" (610) WIDE To Prevent Blanket Sag



FireMaster® FastWrap®XL Commercial Kitchen Grease Duct Enclosure System Air Ventilation Duct Enclosure System 1 Or 2 Hour Shaft Alternative / Zero Clearance to Combustibles 2 and 3 Sided Wrap Detail for Attaching to Walls and/or Ceilings

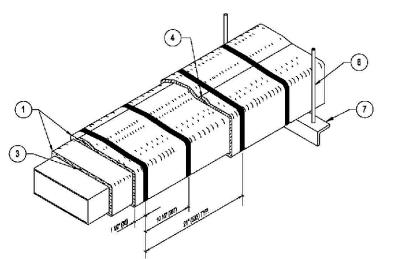


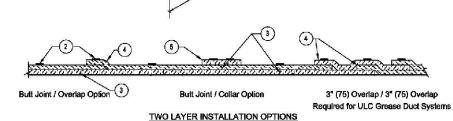
8 Banding clip

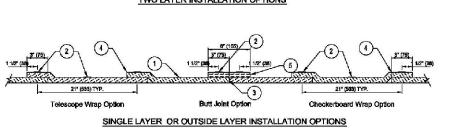
Steel banding min. 1/2" (13) wide by 0.015" (0.4) thick

The integrity of Firemaster duct systems is limited to the quality of the installation

FireMaster FastWrap XL Grease and HVAC Duct Enclosure System 1 or 2 Hour Shaft Alternative / Zero Clearance to Combustibles







Two Layers of FireMaster FastWrap XL Blanket for Grease Duct Enclosures One Layer of FireMaster FastWrap XL Blanket for Air Ventilation Duct Enclosures
Steel banding minimum 1/2" (13) wide by 0.015" (0.4) thick.
Tight butt joints on inner layer (ULC Grease Duct requires 3" (75) overlap)

Min. 3" (75) overlap on perimeter and between adjacent blanket on outside layer Optional 6" FireMaster FastWrap XL collar Trapaze Supports - size dependent on weight of assembly (see datasheet Section G)

Thermal Ceramics

Product Data and Installation Guide

1. Product Description As the pioneer of fire resistive, flexible duct enclosure protection, Thermal Ceramics continues to provide reliable and safe fire protection solutions. To complement the FireMaster FastWrap[®] XL grease duct wrap enclosure system, Thermal Ceramics now offers fully fire tested and building code compliant FireMaster pre-fabricated duct access doors. These FireMaster Access Doors combine the proven reliability of DuctMate® F2-HT high temperature doors and the fire tested performance of FireMaster FastWrap XL flexible enclo-

which is thin and lightweight

· High temperature rated - 2000°F Robust, durable system

Easy to remove or replace

. Complete with threaded rods, wing nuts, and washers Built-in quality consistent from project to project Clearly identified . No welding required at the job site · Access holes in the duct are made to match the doors

16" x 12"

18" x 14"

. Performance Specifications						
Reference Standard	Standard No.	Performance				
Grease Duct Enclosure System	ASTM E2336	Pass	XL3			
Section 16.1 - Non-com- bustibility	ASTM E136	Pass				
Section 16.2 - Fire Resistance (wall)	ASTM E119	Pass	XL3			
Section 16.3 - Durability Test	ASTM C518	Pass				
Section 16.4 - Internal Fire Test	ASTM E2336	Pass	XL3			
Section 16.5 - Fire Engulfment (duct)	ASTM E814/E119	Pass				
	UL 1978	Pass	XL2			

These pre-insulated and ready to install doors offer time and money savings versus the typical field fabricated access door, and provide more reliability for grease and fire contain-

Product Features · Access doors are insulated with FireMaster FastWrap XL, · Zero clearance to combustibles

 Approved in ICC-ES Report ESR 2213 (XL3 Model) **Product Benefits**

Saves labor and time Easy installation - No special tools required

2. Available Sizes 10" x 6" 12" x 8"

Reference Standard	Standard No.	Perform	
Grease Duct Enclosure System	ASTM E2336	Pass	
Section 16.1 - Non-com- bustibility	ASTM E136	Pass	Ī
Section 16.2 - Fire Resistance (wall)	ASTM E119	Pass	
Section 16.3 - Durability Test	ASTM C518	Pass	Ī
Section 16.4 - Internal Fire Test	ASTM E2336	Pass	
Section 16.5 - Fire Engulfment (duct)	ASTM E814/E119	Pass	Ī

FireMaster® Grease Duct Access Door Systems

ASTM E 2336 Compliant Enclosure and Door System FireMaster F2-HT-XL3 Access Door 3 - Layers of FastWrap XL on Door

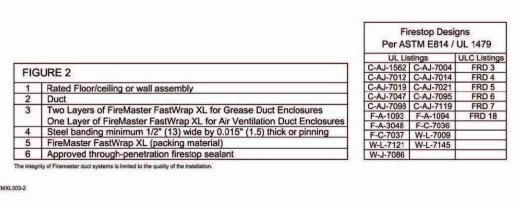
FireMaster F2-HT-XL3 Access Doors

UL 1978 Compliant Enclosure and Door System FireMaster F2-HT-XL2 Access Door 2 - Layers of FastWrap XL on Door

FireMaster F2-HT-XL2 Access Doors

Commercial Kitchen Grease Duct Enclosure System Air Ventilation Duct Enclosure System **Through Penetration Firestop Systems** Fastwrap XL continuous through rated floor/ceiling assembly Fastwrap XL continuous through rated wall assembly

FireMaster®FastWrap®XL



Fastwrap XL terminated at the top and bottom surface of the floor/ceiling assembly

tem according to the Thermal Ceramics installation instructions. Cut the layers of insulation above the access opening

to the same size as the access opening. Next, cut the inte-

rior layer of insulation 1/2" larger on all sides to accommodate

the actual size of the access door and first layer of insulation.

ASTM E 2336 compliant systems will have 2 layers of duct

enclosure insulation on the duct which will require that the

exterior layer of insulation be cut 12" larger on all sides than

the inner insulation layer to provide a tight fit against the

overlaps built into the pre-insulated access door. Repair cut

edges of duct insulation with minimum 3" wide aluminum foil

Installation of the FireMaster pre-insulated access door:

Remove the insulation pack and outer cover plate from the

pre-insulated DuctMate F2-HT door. Holding the DuctMate

F2-HT access door, loosen the inner wing nuts to open a gap

between the inner 16 gauge plate and the 2300°F white gas-

ket materials. Fit the inner 16 gauge steel panel inside the

Materials and Equipment: · FireMaster Pre-insulated Access Door - Complete with: DuctMate F2-HT access door with 2300°F high temperature gasket Template to cut correct access opening sized to t the supplied door - Extended all-thread rods, attached to inner 16 gauge plate Inner wing nuts to tighten access door and pro-

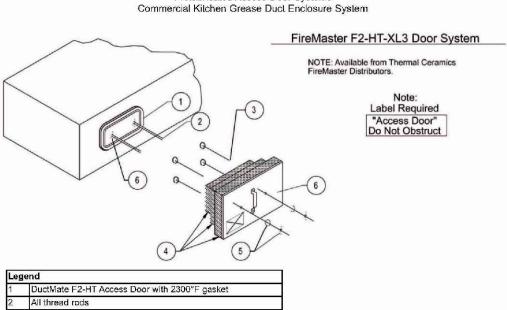
vide grease tight seal - 2 or 3 layers of Insulation depending on XL2 or XL3 system supplied Outer 16 gauge insulation cover, with code prescribed signage Outer wing nuts required to tighten insulation

cover against duct · Minimum 3" wide aluminum foil tape

Preparation of the grease duct enclosure system and Prior to installation of the FireMaster grease duct enclosure

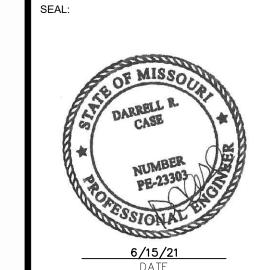
access opening by turning at a slight angle to clear the access opening. Center the inner 16 gauge steel plate within the opening, and tighten the wing nuts to hand-tight. over the all-thread rods. Tighten the provided wing nuts system, use the provided cut-out template to mark and cut an opening in the duct at building code or specification preopening in the duct at building code or specification pre-scribed locations. Install the FireMaster duct enclosure sys-

FireMaster[®] FastWrap[®] XL Prefabricated Access Door Systems



Installation pins with speed clip FireMaster FastWrap XL blanket with minimum 1" overlaps and all edges sealed with aluminum tape Wing nuts and washers Outer cover plate labeler www.thermalceramics.com

08.08/7 14-206



RELEASE FOR

DEVELOPMENT SERVICES

5501 LBJ FREEWAY, 5TH FLOOR

DALLAS, TX 75240

TELEPHONE: (972) 686-6500

FAX: (972) 686-650

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STRUCTURES BUILT FROM SUCH WITHOUT THE

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PROJECT INFORMATION

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DISCLAIMER:

	DATE
PROJECT NO.:	2021-0158
DRAWN BY:	JJV
CHECKED BY:	DRC

DATE: FOR PERMIT & BID 06-10-21

DATE:

LEE'S SUMMIT, MO

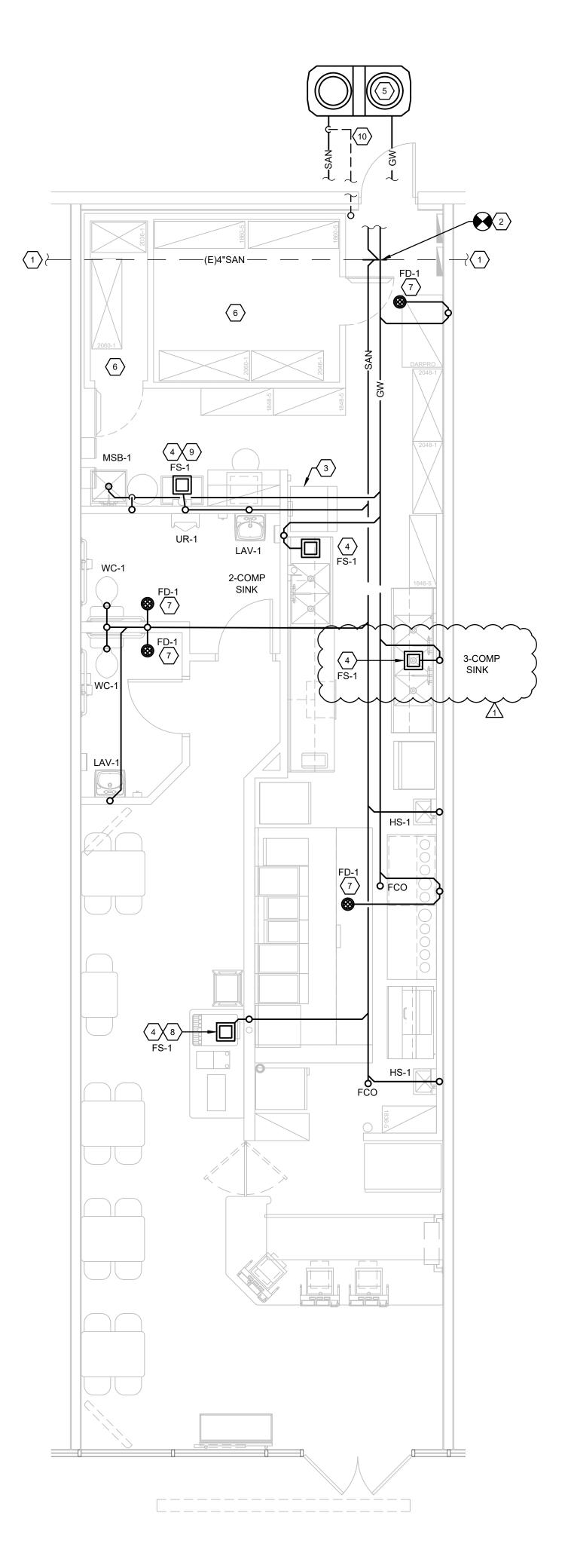
PROJECT LOCATION:

SHEET NUMBER:

FireMaster F2-HT-XL3 Door System

Thermal Ceramice

APPROVED EQUAL FIRE WRAP FYREWRAP ELITE 1.5



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

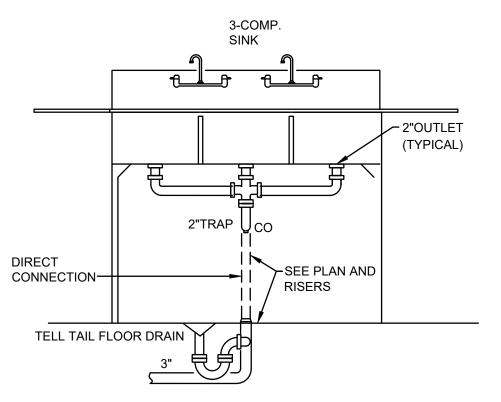
NOTE:

VENTING ABOVE RIM HEIGHT, 6" MINIMUM

CONDENSATE OR SIMILAR LIQUID WASTES SHALL BE DRAINED INDIRECTLY TO A FLOOR SINK WITH A MINIMUM 1 INCH AIR GAP FROM THE LIP OF THE BASIN.

NOTE:

THE LOCATION OF THE GREASE TRAP AS SHOWN IS FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS DURING THE BIDDING PHASE OF THIS PROJECT AND ASSIGN ALL APPLICABLE COST. WHEN NOT INDICATED VERIFY WITH LOCALITY IF ADDITIONAL SAMPLING PORT OR SAMPLE TEE IS REQUIREMENT.



3-COMPARTMENT SINK DETAIL SCALE: NO SCALE

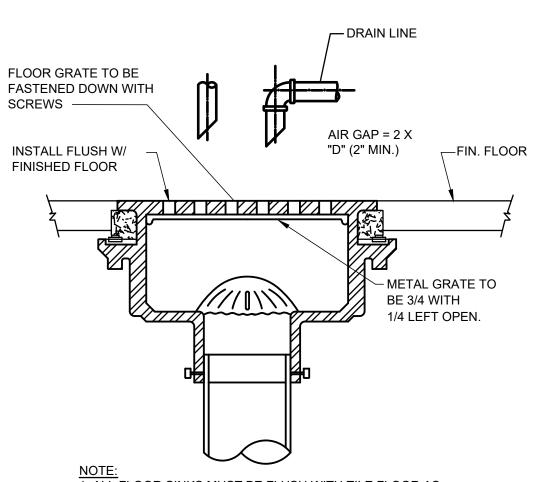
	PLUMBING :	SYME	BOLS
(E) SAN — SAN — GW — CD — CD — VTR CI FCO	EXISTING SANITARY SEWER LINE SANITARY SEWER LINE GREASE WASTE LINE VENT LINE CONDENSATE DRAIN COLD WATER LINE HOT WATER LINE HOT WATER RETURN FILTERED WATER LINE SHUT-OFF VALVE BACKFLOW PREVENTER VENT THRU ROOF CAST IRON FLOOR CLEAN OUT	F.D. TPRV P.O.C. FS C.W. MS LAV. UR. W.C. A.F.F. B.F.F. M EWH GCO TWCO	FLOOR DRAIN TEMPERATURE PRESSURE RELIEF VALVE POINT OF CONNECTION FLOOR SINK CAN WASH MOP SINK LAVATORY URINAL WATER CLOSET ABOVE FINISHED FLOOR BELOW FINISHED FLOOR WATER METER ELECTRIC WATER HEATER GRADE CLEANOUT TWO WAY CLEANOUT
WCO	WALL CLEAN OUT		

NOTE: 1. REFER TO RISER DIAGRAM ON SHEET P3 FOR PIPE SIZES. 2. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P5 FOR KEYED NOTES

TABLE TO CALCULATE DRAINAGE FIXTURES					
PLUMBING FIXTURE DRAINAGE NUMBER OF FIXTURES					
WATER CLOSET (WC-1)	4	2	8		
LAVATORIES (LAV-1)	1	2	2		
FLOOR DRAINS (FD-1)	3	4	12		
FLOOR SINK (FS-1)	5	4	20		
TRENCH DRAIN (TD-1)	4	1	4		
3 COMPARTMENT SINK	4	1	4		
URINAL (UR-1)	2	1	2		
HAND SINK (HS-1)	3	2	6		
MOP SINK	3	1	3		
TOTAL DRAINAGE FIXTURE UNITS					

PLUMBING KEYED NOTES

- (1) EXISTING SANITARY WASTE PIPING BELOW GRADE. VERIFY EXACT SIZE, INVERT ELEVATION, AND LOCATION IN FIELD PRIOR TO WORK.
- POINT OF CONNECTION TO EXISTING SANITARY PIPING BELOW GRADE. VERIFY EXACT SIZE, INVERT ELEVATION AND LOCATION IN FIELD PRIOR TO WORK. CONTACT ENGINEER WITH ANY DISCREPANCIES.
- ROUTE (2) 1-1/2" DRAINS AND (1) 1-1/4" DRAIN FROM ICE MACHINE TO FLOOR SINK. REFER TO ITEM 19 ON SCHEDULE SHEET P5. (NO TEE IN LINES.) DRAIN FROM ICE MACHINE AND ICE BIN MUST BE SEPARATELY ROUTED TO INDIRECTLY DISCHARGE TO FLOOR SINK.
- FLOOR SINK. REFER TO ITEM 6 ON SCHEDULE SHEET P5 AND RISER DIAGRAM ON SHEET P3 FOR ADDITIONAL INFORMATION.
- ROUTE TO GREASE INTERCEPTOR. COORDINATE WITH LANDLORD AND LOCAL AUTHORITIES FOR EXACT LOCATION. VERIFY WITH LOCAL AUTHORITIES ON EXACT TYPE, SIZE AND INSTALLATION OF GREASE INTERCEPTOR. REFER TO GREASE INTERCEPTOR DETAIL P4.
- 6 SELF-EVAPORATING CONDENSATE AT COOLER AND FREEZER. DRAIN NOT REQUIRED BY
- FLOOR DRAIN WITH SURE SEAL TRAP GUARD. <u>ALTERNATE</u>: PROVIDE 1/2" TRAP PRIMER LINE WHEN TRAP GUARD IS NOT ACCEPTED BY LOCAL CODE. REFER TO ITEM 4 AND 5 ON SCHEDULE SHEET P5 AND WATER SUPPLY PLAN P2 FOR TRAP PRIMER LOCATION. VERIFY PRIOR TO BID.
- (NOT SHOWN): 3/4" DRAIN FROM SODA SYSTEM, DRAIN INDIRECTLY INTO FLOOR SINK, MOUNT UNDER COUNTER. REFER TO ITEM 20 ON SCHEDULE SHEET P5 FOR ADDITIONAL INFORMATION.
- (9) DRAIN CARBONATOR INDIRECTLY TO FLOOR SINK. REFER TO ITEM 24 ON SCHEDULE SHEET P5.
- 10 VENT PIPING BELOW GRADE.



NOTE:

1. ALL FLOOR SINKS MUST BE FLUSH WITH TILE FLOOR AS SHOWN ABOVE. INSTALLATION ON A 1/4" LIP EITHER DIRECTION IS ALSO ACCEPTABLE.

SANITARY FLOOR SINK DETAIL SCALE: NO SCALE

RELEASE FOR



5501 LBJ FREEWAY, 5TH FLOOR DALLAS, TX 75240 TELEPHONE: (972) 686-6500 FAX: (972) 686-650

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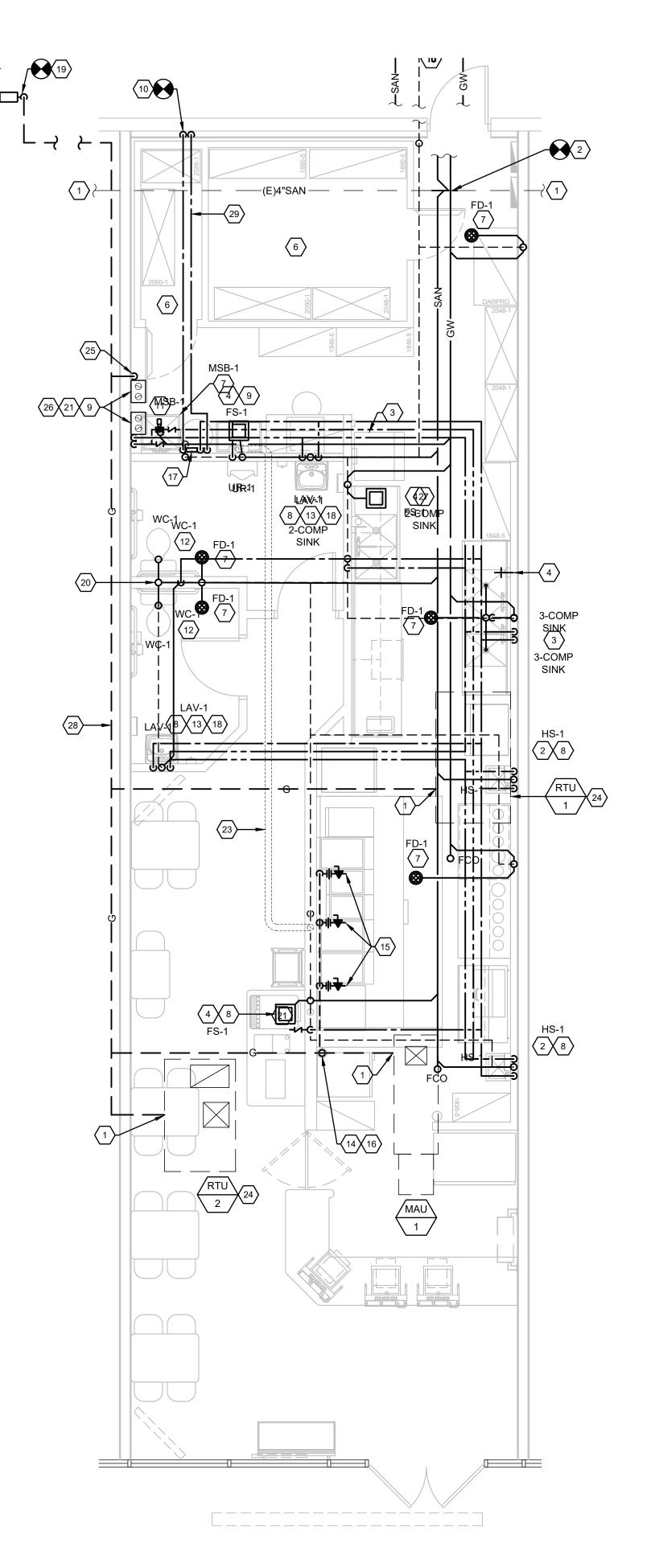
PROJECT INFORMATION:

PROJECT NO.: 2021-0158 DRAWN BY: JJV CHECKED BY: DRC ISSUE: FOR PERMIT & BID 06-10-21

DATE:

BLDG. COMMENTS 07-08-21

PROJECT LOCATION: LEE'S SUMMIT, MO



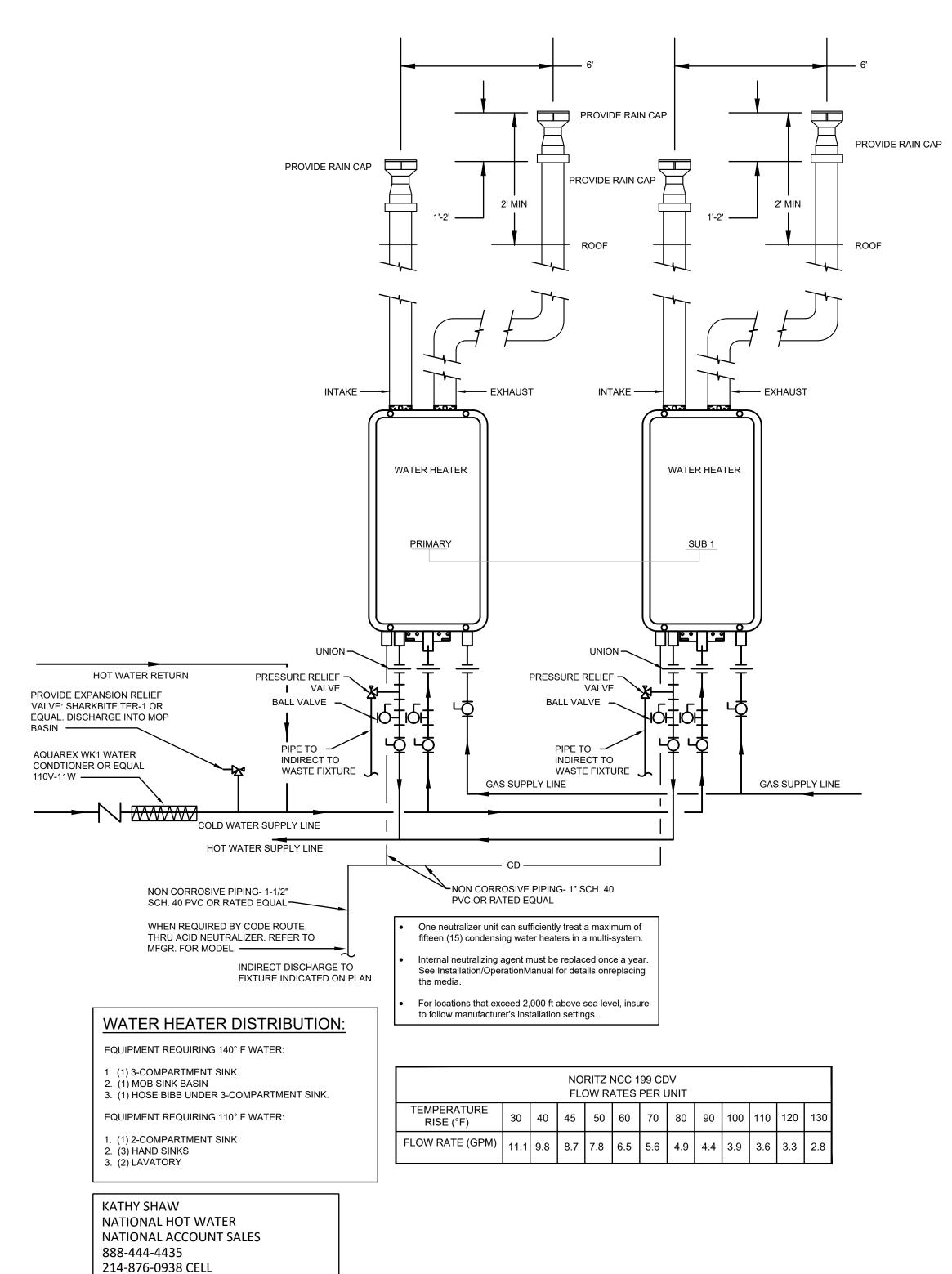
WATER/VENT/GAS PLUMBING PLAN SCALE: 1/4" = 1'-0"

VENTING ABOVE HIGH

NOTE:

NOTE: REFER TO SHEET A0.0 FOR COMPLETE OCCUPANCY DATA RIM, 6" MINIMUM

GAS LOAD SUMMARY SYSTEM **EQUIPMENT** DESIGNATION MBH DOMESTIC WATER WATER HEATER HEATING SUB-TOTAL "KEYNOTE" 15 "KEYNOTE" 15 FRYER KITCHEN EQUIPMENT FRYER "KEYNOTE" 15 **FRYER** "KEYNOTE" 15 "KEYNOTE" 15 FRYER SUB-TOTAL 475 RTU-1 **ROOF TOP UNIT** RTU-2 **ROOF TOP UNIT BUILDING HEATING** MAU-1 MAKE UP AIR SUB-TOTAL TOTAL NATURAL GAS CONNECTED LOAD MBH CAPACITY TOTAL DEVELOPED LENGTH INCLUDING EQUIVALENT PIPE **GAS METER** 100 FT X 1.2 = LENGTH FOR FITTING AND VALVE FRICTION LOSSES TO GAS REQUIREMENTS 120 FT CONSULT GAS UTILITY COMPANY FOR REGULATOR RATING



www.nationalhotwater.com

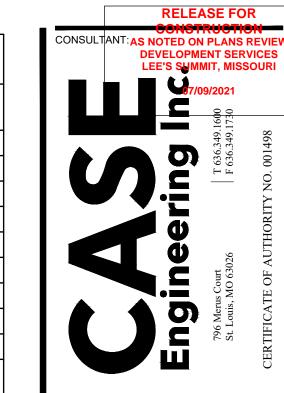
PLUMBING FIXTURE	WATER FIXTURE UNITS	NUMBER OF FIXTURES	SFUS	
WATER CLOSET (WC-1)	4	2	8	
URINAL (UR-1)	2	1	2	
LAVATORIES (LAV-1)	2	2	4	
3 COMPARTMENT SINK	4	1	4	
2 COMPARTMENT SINK	4	1	4	
HAND SINK (HS-1)	2	3	6	
MOP SINK	3	1	3	
BEVERAGE DISPENSORS	1	3	3	
HOSE BIBB	2.5	1	2.5	
TOTAL WATER FIXTURE UNITS				
GPM				
WATER SERVICE , TYPE L COPPER				

BACK FLOW PREVENTER ASSEMBLY REQUIREMENTS					
TYPE OF EQUIPMENT ON SYSTEM	METHOD OF CROSS CONNECTION CONTROL	MANUFACTURE AND MODEL NUMBER	REMARKS		
CARBONATOR SODA SYSTEM	ATMOSPHERIC CHECK VALVE	WATTS SD3LF ASSE 1022/1024 CERT.	STAINLESS STEEL BODY WITH QUARTER TURN VALVE SS STRAINER.		
ICE MACHINE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-009-QT-S	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.		
TEA MACHINE	DOUBLE CHECK VALVE ASSEMBLY	WATTS SD3LF ASSE 1022/1024 CERT.	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.		
WATER SERVICE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-919-QT	LEAD FREE CAST COPPER WITH QUATER TURN		

PLUMBING KEYED NOTES

3. BRONZE BODIED BACKFLOW PREVENTERS ARE PERMISSABLE IF ALLOWED BY LOCAL CODES.

- 1) ROUTE GAS PIPING TO ROOF TOP AIR UNITS. PROVIDE GAS COCK AND UNION PRIOR TO CONNECTION TO
- \langle 2 \rangle HAND SINK. SEE ITEM 22 ON SCHEDULE SHEET P5 AND RISER ON P3 FOR ADDITIONAL INFORMATION.
- 3-COMPARTMENT SINK AND FAUCETS PROVIDED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR. 3-COMPARTMENT SINK AND FAUGE IS PROVIDED BY OWNER, WILLIAMS WILLIAMS SEE ITEM 17 ON SCHEDULE SHEET P5 AND RISER ON SHEET P3 FOR ADDITIONAL INFORMATION.
- \langle 4 \rangle 3/4" (140°F) HOT WATER HOSE BIB UNDER 3-COMPARTMENT SINK, SEE ITEM 23 ON SCHEDULE SHEET P5.
- 5 1/2" COLD WATER LINE TO ICE MACHINE, PROVIDE WATER FILTER AND BACKFLOW PREVENTER, SEE ITEM 19 ON SCHEDULE SHEET P5.
- 6 1/2" COLD WATER LINE TO CARBONATOR, PROVIDE BACKFLOW PREVENTER, THE PIPING MATERIAL DOWNSTREAM OF BACKFLOW DEVICE SHALL NOT BE AFFECTED BY CO2 GAS. PROVIDE 1/4" CONNECTION TO CARBONATOR. SEE ITEM 24 ON SCHEDULE SHEET P5.
- $\langle 7 \rangle$ 3/4" (140°F) HOT AND COLD WATER TO MOP SINK, SEE ITEM 3 ON SCHEDULE SHEET P5.
- THERMOSTATIC MIXING VALVE (MV-1) SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR. SET WATER TEMPERATURE FOR 110°F MAXIMUM, SEE ITEM 7 ON SCHEDULE SHEET P5.
- GAS FIRED WATER HEATERS, SEE WATER HEATER DETAIL THIS SHEET AND EQUIPMENT SCHEDULE ITEMS 8 AND 9, SHEET P5. SET WATER TEMPERATURE FOR 140°F MAXIMUM.
- ROUTE TO CONNECT TO EXISTING 1" WATER SERVICE. VERIFY EXACT LOCATION AND SIZE IN FIELD PRIOR TO WORK. CONTACT ENGINEER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED. VERIFY WITH LANDLORD AND WATER COMPANY EXACT CONNECTION AND METER REQUIREMENTS PRIOR TO WORK. WATER ENTRANCE SHALL BE REWORKED INCLUDING RELOCATION OF IRRIGATION SUPPLY.
- $\langle 11 \rangle$ CIRCULATION PUMP. ITEM 29 P5.
- 1/2" COLD WATER LINE TO WATER CLOSET. REFER TO ITEM 1 ON SCHEDULE SHEET P5 AND RISER DIAGRAM SHEET P3 FOR MORE INFORMATION, TYP. OF 2.
- 1/2" HOT & COLD WATER LINES TO LAVATORIES. REFER TO ITEM 2 ON SCHEDULE SHEET P5, AND RISER DIAGRAM SHEET P3 FOR MORE INFORMATION.
- GAS DOWN TO KITCHEN EQUIPMENT. PROVIDE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE IN RISER, EMERGENCY SHUT OFF INTERLOCKED TO HOOD FIRE SUPPRESSION SYSTEM.
- $\langle 15 \rangle$ GAS LINE TO FRYERS.
- PROVIDE MANUAL SHUT-OFF VALVE FOR GAS LINE ABOVE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE IN RISER. SEE GAS RISER DIAGRAM ON SHEET P3.
- PROVIDE SCHEDULED BACKFLOW PREVENTER & PRV. ROUTE RELIEF PIPING TO DRAIN INDIRECTLY INTO MOP SINK. DISCHARGE INDIRECTLY INTO MOP BASIN.
- 1/2" CW TO WALL MOUNTED TRAP PRIMER, SEE ITEM 10, SCHEDULE SHEET P5 AND WATER RISER DIAGRAM SHEET P3 PROVIDE ONLY WHEN TRAP GUARD IS NOT PERMITTED.
- POINT OF CONNECTION TO NEW GAS METER. VERIFY WITH GAS COMPANY EXACT CONNECTION AND METER INSTALLATION REQUIREMENTS PRIOR TO WORK.
- (20) 4" VENT UP THROUGH ROOF, MAINTAIN MINIMUM 10'-0" FROM OUTSIDE AIR INTAKES.
- $\langle 21 \rangle$ 1/2" COLD WATER BREWER, REDUCE TO 1/4" AND PROVIDE CONNECTION.
- 5" PVC INTAKE PIPE THROUGH ROOF FOR WATER HEATER. REFER TO DETAIL THIS SHEET. INSTALL PER MANUFACTURERS RECOMMENDATION.
- $\langle 23 \rangle$ 6"Ø SODA LINE CONDUIT ABOVE CEILING, SEE SHEETS A1.1 AND EQ.1.
- 24 ROUTE 1" A/C CONDUIT TO DISHCHARGE INTO ROOF GUTTER/DRAIN
- (25) GAS DOWN TO GWH.
- 5" CPVC OR PVDF FLUE PIPE THROUGH ROOF FOR WATER HEATER, REFER TO DETAIL THIS SHEET, OFFSET FOR MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKE. MOUNT AS HIGH AS POSSIBLE.
- 27 1/2" COLD AND HOT WATER LINES TO TWO COMPARTMENT SINK. SINK AND FAUCETS PROVIDED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR. REFER TO ITEM 18 ON SCHEDULE SHEET P5 AND RISER ON SHEET P3 FOR ADDITIONAL INFORMATION.
- $\langle 28 \rangle$ LOW PRESSURE GAS PIPING RUN ON ROOF TOP.
- (29) REWORKED IRRIGATION SUPPLY. COORDINATE WITH LANDLORD AND OWNER.



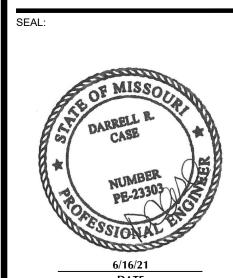


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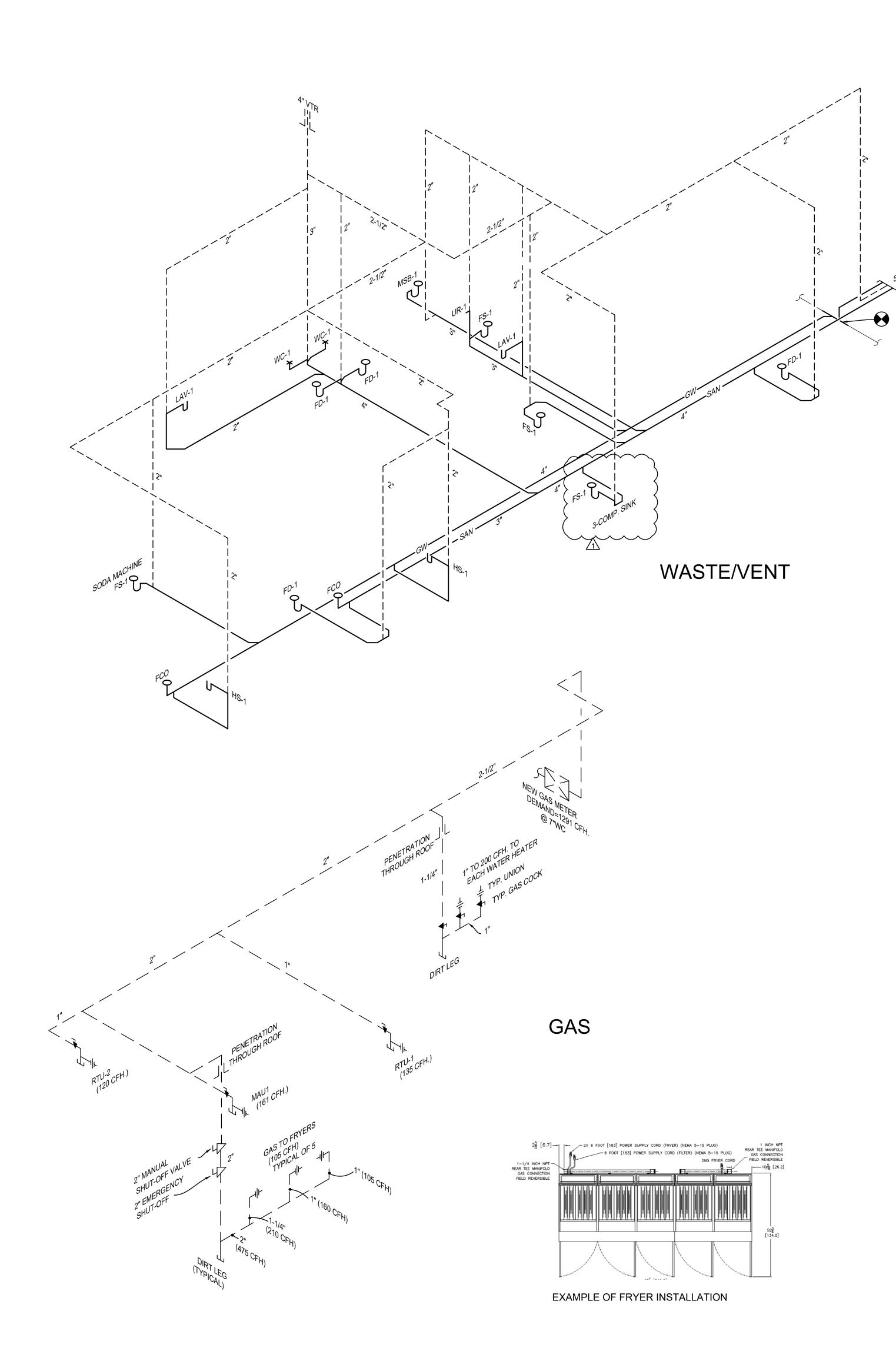


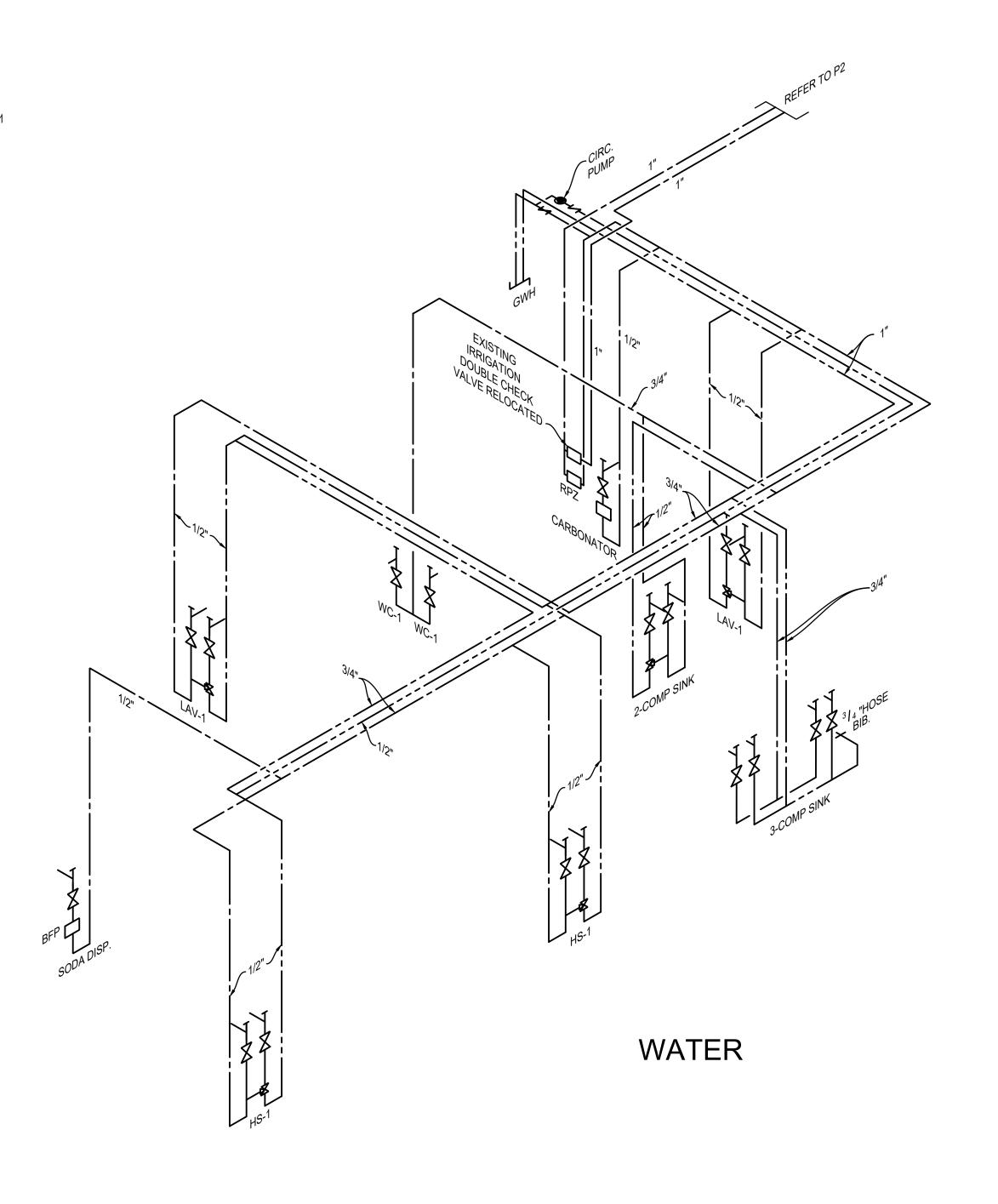
PROJECT NO.: 2021-0158 DRAWN BY:

CHECKED BY: DRC

FOR PERMIT & BID 06-10-21 DATE:

PROJECT LOCATION: LEE'S SUMMIT, MO





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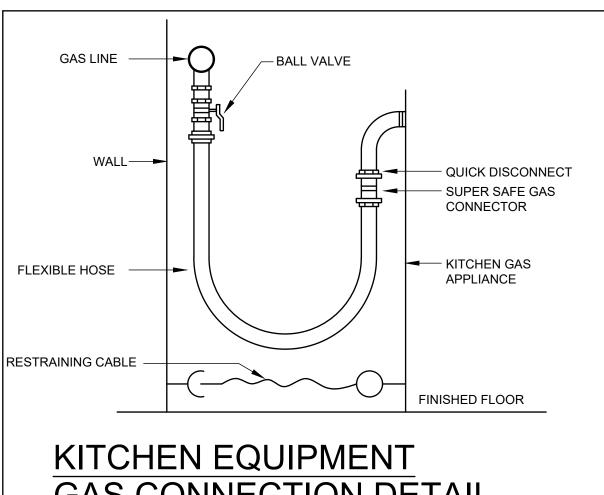
	7/8/21
	DATE
PROJECT N	O.: 2021-0158
DRAWN BY:	JJV

SSUE:	DATE:
FOR PERMIT & BID	06-10-21

REVIS	SION:	DATE:	
$\sqrt{1}$	BLDG. COMMENTS	07-08-21	
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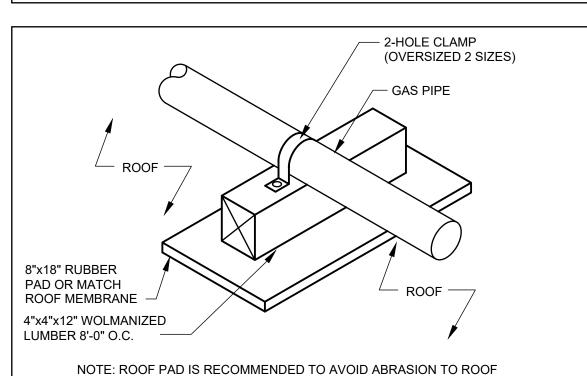
PROJECT LOCATION:

LEE'S SUMMIT, MO



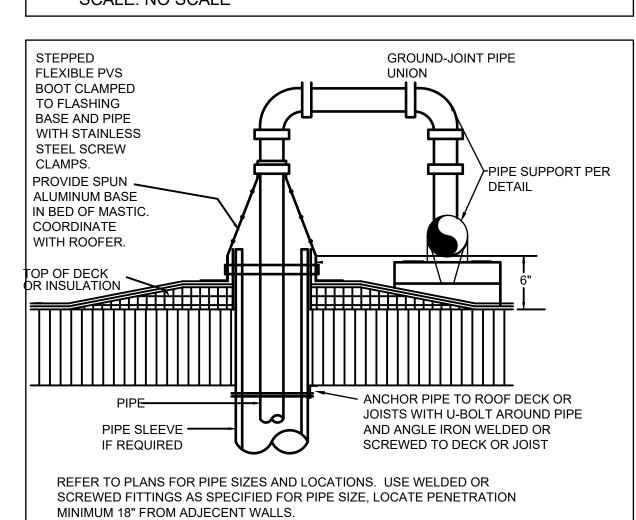
GAS CONNECTION DETAIL

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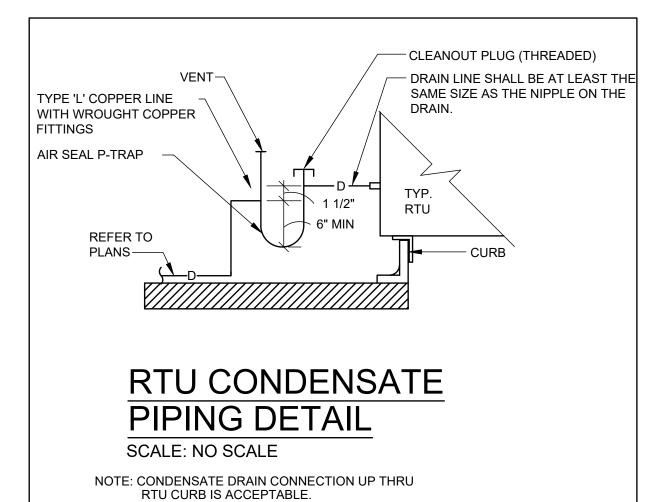
GAS MOUNTING DETAIL

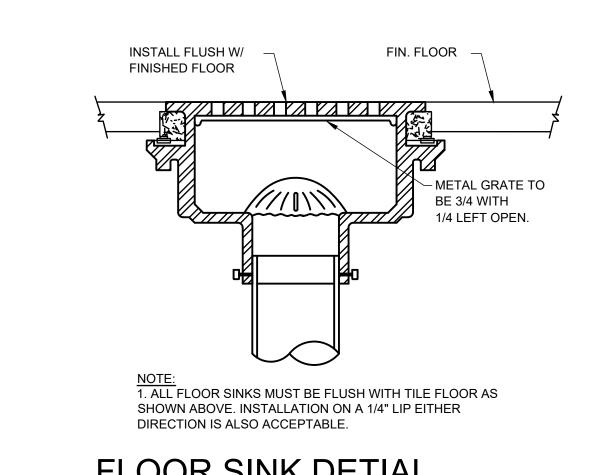
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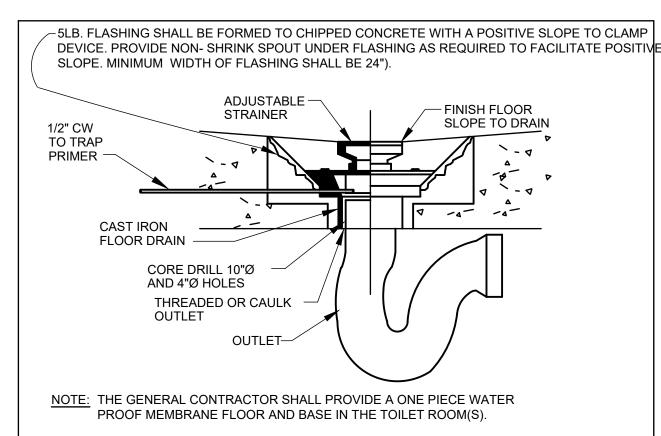
ROOF PENETRATION DETAIL

SCALE: NO SCALE



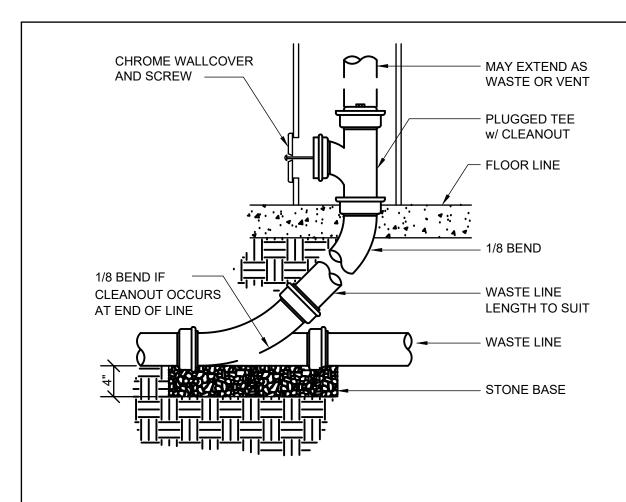


FLOOR SINK DETIAL



FLOOR DRAIN w/TRAP PRIMER

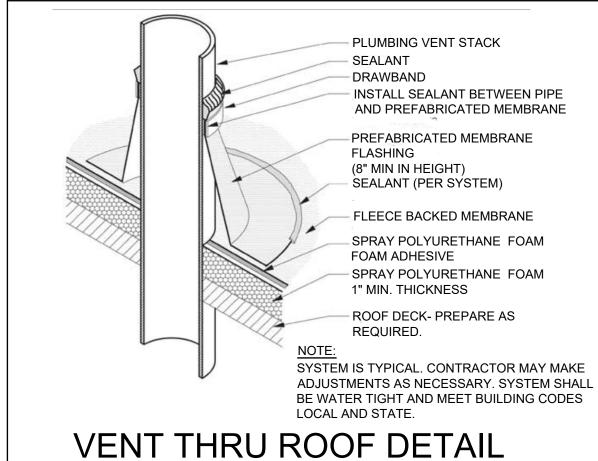
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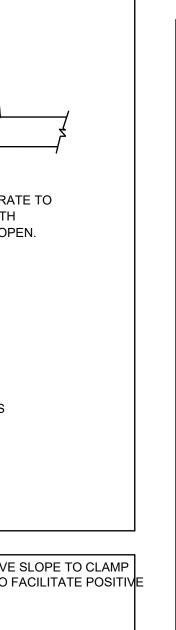


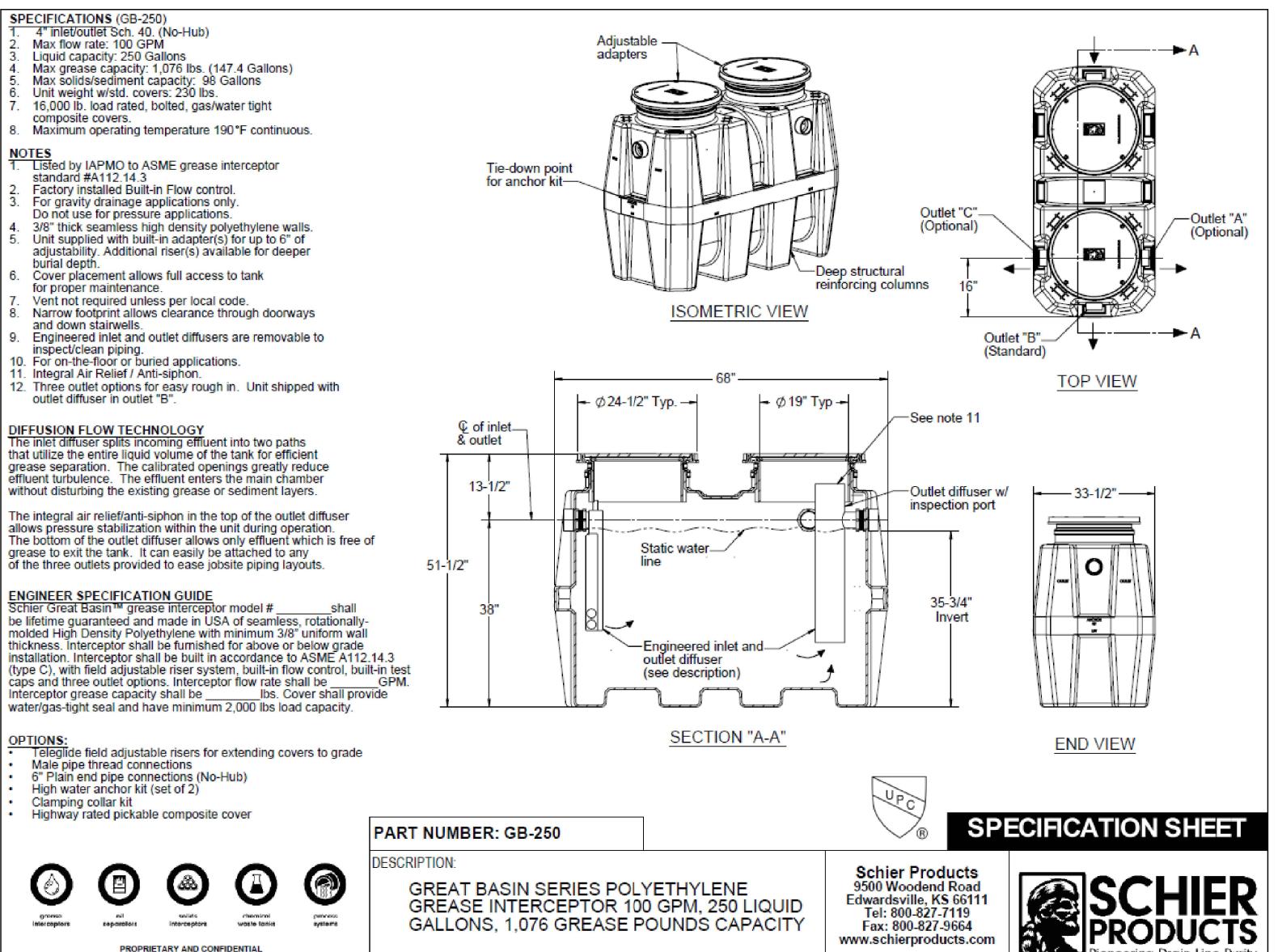
WALL CEANOUT DETAIL

SCALE: NO SCALE

SCALE: NO SCALE



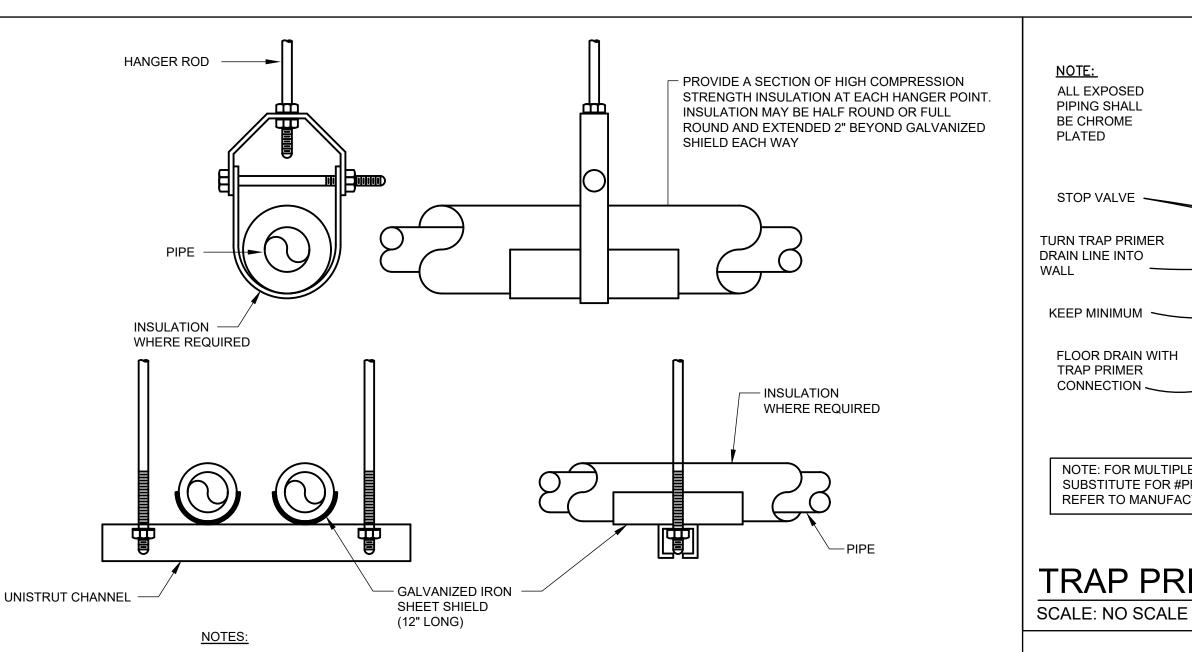




GREASE INTERCEPTOR

DWG BY: TEU DATE: 11/13/06 REV: 8 - 10/31/11 MATL: PE

SCALE: NO SCALE



1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL

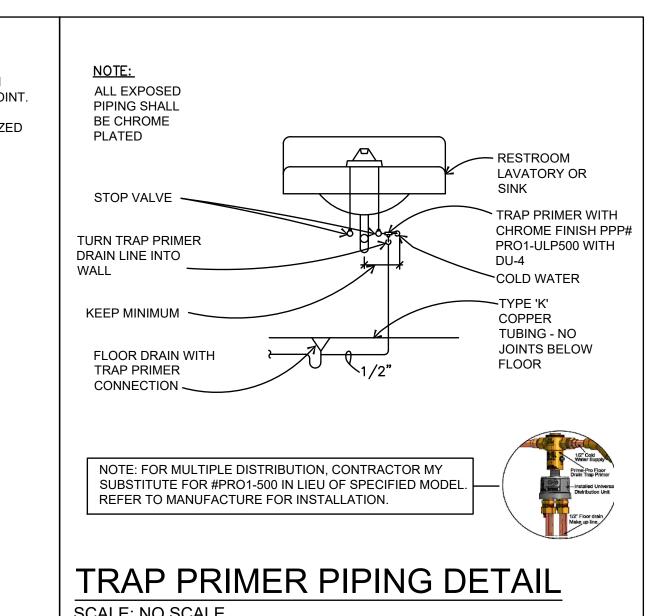
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED

STRUCTURE TO THE TOP CHORD OF JOISTS OR BEAMS.

PIPE HANGER DETAIL

SCALE: NO SCALE

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PROJECT INFORMATION

PROJECT NO.: 2021-0158 DRAWN BY: JJV CHECKED BY: DRC

DATE: FOR PERMIT & BID 06-10-21

DATE:

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER:

P4

DIVISION 15 - PLUMBING SPECIFICATIONS

- A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.
- REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHIP

- A. MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS. AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.
- B. WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

- A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROJECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL
- EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL. STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK. THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CON-JUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

- A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.
- ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS. AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

RESPONSIBILITY

- A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN THE CONTRACT AND SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.
- CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

GENERAL PROVISIONS

- 1. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM FOR THE BUILDING.
- 2. OBTAIN WATER, SEWER, GAS TAPS, AND ANY OTHER REQUIRED UTILITIES AND EXTEND SERVICE FROM SAME TO BUILDING AS SHOWN ON DRAWINGS. VISIT THE SITE FOR UNDERSTANDING OF THE WORK TO BE DONE BEFORE SUBMITTING BID.
- 3. COORDINATE THIS WORK WITH THE WORK OF THE OTHER TRADES ON THE PROJECT. ALL PLUMBING IS TO BE ROUGHED IN WHILE THE BUILDING IS BEING CONSTRUCTED AT SUCH TIMES AS NOT TO DELAY THE GENERAL CONTRACTOR ON THE BUILDING.
- 4. GENERAL REQUIREMENTS: COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS, CODES, RULES, AND ORDINANCES GOVERNING WORK OF THIS CHARACTER. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.
- 5. THE LOCATION OF THE PIPING RUNS ARE APPROXIMATE AND THE CONTRACTOR MUST MAKE ANY NECESSARY CHANGES IN THE PIPING RUNS, ETC., AT NO ADDITIONAL COST TO THE OWNER. OUTLET LOCATIONS ARE CRITICAL AND MUST BE LOCATED EXACTLY ACCORDING TO THE PLUMBING PLAN. COORDINATE THIS WORK WITH THE INSTALLERS OF EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. REFER TO THE OTHER DRAWINGS FOR DETAILS OF THE BUILDING CONSTRUCTION AND THE OTHER MECHANICAL, ELECTRICAL, AND EQUIPMENT FEATURES.
- 6. COORDINATION AND WORKMANSHIP: SCHEDULE THIS WORK SO THAT IT WILL BE PROPERLY COORDINATED WITH ALL OTHER TRADES. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE FOR THE CLASS OF WORK INVOLVED. WORKMANSHIP SHALL ALLOW THE APPLIANCE TO OPERATE AS INTENDED AND BE INSTALLED TO BEST PROTECT THE PUBLIC AND OPERATORS FROM INJURY OR DAMAGE, AND TO PRESENT A NEAT, PLEASING, AND ORDERLY APPEARANCE.

MATERIALS AND PERFORMANCE

- 1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE WITHIN FIVE (5) DAYS AFTER THE CONTRACT IS LET.
- 2. BACKFILLING: PERFORM ALL NECESSARY EXCAVATING AND BACKFILLING REQUIRED FOR THIS INSTALLATION. PREPARE A PROPER BED OF SAND OR GRAVEL OR EQUIVALENT IN ROCK SCREENINGS SO AS TO ELIMINATE SHIMMING AND VOID SPACES UNDER ANY OF THE UTILITY SERVICE PIPES. BENDING OF ANY HARD PIPE WILL NOT BE PERMITTED. WHERE A CHANGE IN DIRECTION IS NECESSARY ON PRESSURE PIPES, "COMPATIBLE" COUPLINGS OR EQUAL SHALL BE USED AND BENDS MAY NOT EXCEED 90 DEGREES. ALL EXCAVATION BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 2000 PSI CONCRETE. OTHER BACKFILL SHALL CONSIST OF 2-3" OF SAND OR ROCK SCREENINGS AND EARTH TO A FINAL LEVEL EQUAL TO ITS ORIGINAL CONDITION. IN THE EVENT THE BACKFILL SHOULD SETTLE BEFORE THE FINAL TOP SURFACE IS APPLIED, APPLY ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO MINIMIZE THE DUST LEVEL WHEN EXCAVATING AND BACKFILLING SO AS TO COMPLY WITH FEDERAL AND STATE E.P.A. REGULATIONS RELATING TO THIS TYPE OF WORK (FUGITIVE DUST).
- 3. PIPING INSTALLATION: CLEANOUTS MUST BE INSTALLED ON MINIMUM DROP LINES EVEN THOUGH NOT SHOWN ON THE BLUEPRINTS. USE REDUCING FITTINGS IN MAKING REDUCTIONS IN SIZE OF PIPE. REAM ALL PIPE AFTER CUTTING, THEN TURN PIPES ON END AND KNOCK OUT ALL LOOSE DIRT AND SCALE BEFORE INSTALLING. MAKE CHANGES IN HORIZONTAL DIRECTION OF SOIL AND WASTE PIPES WITH LONG RADIUS FITTINGS OR WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS. CONNECT SOIL STACKS AT BASE TO HORIZONTAL RUNS WITH "Y" CONNECTIONS.
- A. WATER SUPPLY PIPES TO FIXTURES AND WASTE PIPES FROM FIXTURES SHALL BE CENTERED IN THE PROPER PLACE RELATIVE TO THE CENTER LINE OF THE FIXTURE. NO OFFSETS WILL BE ALLOWED. ALL PIPES SHALL BE RUN MECHANICALLY STRAIGHT AND SQUARE WITH BUILDING LINES, EXCEPT FOR REQUIRED PITCH ON HORIZONTAL LINES AND ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS. WATER PIPING TO BE ROUTED IN WALLS, UNDER THE FLOOR SLAB, AND ABOVE SUSPENDED CEILINGS AS NOTED. WHERE WATER LINES ARE ROUTED UNDER THE FLOOR SLAB, NO MECHANICAL JOINTS SHALL BE MADE UNDER THE SLAB EXCEPT AS LISTED BELOW. WATER PIPING SHALL BE INSTALLED NOT TO EXERT VERTICAL NOR HORIZONTAL STRESSES ON THE SEATING OF UNIONS. UNIONS SHALL BE COPPER TYPE NIBCO #733 OR EQUAL.
- B. NO WAX, PUTTY, OR VARNISH WILL BE PERMITTED. CRACKED FITTINGS SHALL BE REMOVED AND REPLACED WITH NEW FITTINGS. MAKE THREADED JOINTS IN BRASS PIPE AND FITTINGS WITH PIPE THREADING TO THE SHOULDER OF THE FITTINGS. NO SLIP JOINTS OR COUPLING JOINTS IN BRASS PIPE WILL BE PERMITTED, EXCEPT ON THE FIXTURE SIDE OF THE TRAP.
- C. GAS PIPING FOR ABOVE GROUND INSTALLATIONS: ALL FITTINGS TO BE OIL, THREAD CUTTINGS AND RESIDUALS TO ACCEPT ENAMEL PAINT. ROUGH OR SHARP JOINED WITH TEFLON TAPE SEAL OR OTHER SUITABLE SEAL AND MADE IN CONFORMANCE EXPOSED THREAD SURFACES SHALL BE FILED SMOOTH. TESTING SHALL BE AS OUTLINED WITH THE BEST PRACTICES OF AGA AND NFPA 54. UNIONS SHALL BE CAST BLACK IRON AND INSTALLED IN A MANNER SUCH THAT NO STRESS WILL BE PLACED ON THE MALE-FEMALE SEALING SURFACES. PROPER ALIGNMENT WILL BE MADE AT TIME OF INSTALLATION. ALL JOINTS AND CONNECTIONS SHALL BE THOROUGHLY CLEANED OF

WATER PIPE

JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND SOLDERED AS LISTED BELOW. FLUX SHALL BE

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING; E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL-UPONOR PEX, NO JOINTS PERMITTED UNDER GRADE.

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.

- A. MATERIALS UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPER
- B. MATERIALS ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN
- C. MATERIALS PEX PIPING, IF APPROVED BY LOCAL CODE. (NOTE: WHEN PEX IS USED, CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING PROPER INSTALLATION AND BALANCING FOR HOT WATER RECIRCULATION WHEN
- D. INSULATION: INSULATION FOR COLD WATER PIPING SHALL BE 1/2". HOT WATER & HOT WATER RETURN MUST BE AT LEAST THE THICKNESS OF THE PIPE DIAMETER. ACCEPTABLE MATERIALS: ARMAFLEX UL LABELED OR FIBERGLASS. INSULATE ALL PIPING AND FITTINGS.

- A. GAS PIPING ABOVE GROUND: ASTM A53, SCHEDULE 40 BLACK STEEL WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS. INSTALL MOISTURE TRAPS ON HVAC UNITS AND KITCHEN EQUIPMENT.
- B. GAS PIPING COMPOUND AT JOINTS; IN COMPLIANCE WITH NFPA BULLETIN #54 AND LOCAL APPLICABLE CODES AND SUITABLE FOR NATURAL GAS SERVICE.
- C. PRIME AND PAINT EXPOSED PIPING: ONLY WHEN REQUIRED BY LOCAL CODES.

WASTE PIPE

- A. INSTALL HORIZONTAL DRAIN AND WASTE PIPES WITH MIN. 1/8"/FT. SLOPE FOR 3" OR GREATER 1/4"/FT FOR 2" AND LESS. (NOTE: CERTAIN JURISDICTIONS MANDATE 1/4" REGARDLESS OF PIPE SIZE, VERY IF WITH LOCAL PLUMBING AUTHORITY IF NOT SURE.)
- B. MATERIALS: PVC SCH. 40, WITH CHEMICALLY FUSED JOINTS OR CAST IRON (HUB TYPE WITH NEOPRENE JOINTS -WITH STAINLESS STEEL CONNECTORS WHEN PVC IS NOT ALLOWED PER
- C. FOR CAST IRON BELOW GRADE OPTION:
- COMPRESSION GASKET JOINTS SANITARY PIPE & STORM PIPE: 1. JOINT SHALL BE ONE PIECE DOUBLE SEAL COMPRESSION TYPE GASKET MADE SPECIFICALLY FOR JOINING CAST IRON SOIL PIPE. GASKET SHALL BE NEOPRENE, PERMITTING JOINT TO FLEX AS MUCH AS 5 DEGREES WITHOUT LOSS OF SEAL. GASKET SHALL BE EXTRA HEAVY WEIGHT CLASS, CONFORMING TO ASTM C-564.
- 2. LEAD AND OAKUM JOINTS SANITARY PIPE AND STORM PIPE: 1. PACK JOINT WITH OAKUM MADE OF VEGETABLE FIBER, COTTON, OR HEMP. POUR JOINT WITH MOLTEN LEAD UP TO TOP OF HUB. ENSURE LEAK-FREE JOINTS BY WORKING JOINT WITH INSIDE AND OUTSIDE CAULKING IRONS.

TESTS & CLOSEOUT PROCEDURES

DIRECTION)

- A. DRAINAGE AND VENT PIPING DRAINAGE AND VENT PIPING SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE INSTALLED BY CAPPING THE OPENINGS AND FILLING THE ENTIRE SYSTEM WITH WATER AND ALLOWING IT TO STAND THUS FILLED NOT LESS THAN ONE (1) HOUR. INSPECT WATER LEVEL TO DETERMINE IF PIPING IS TIGHT.
- B. PIPING THE WATER SUPPLY PIPING LINES SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE CONNECTED BY FILLING THE ENTIRE SYSTEM WITH POTABLE WATER AND APPLYING HYDROSTATIC PRESSURE OF 100 PSI AND ALLOWING TO STAND FOR NOT LESS THAN FOUR (4) HOURS AT THIS PRESSURE TO PROVE PLUMBING INTEGRITY.
- C. GAS PIPING IN LIEU OF LOCAL REQUIREMENTS, GAS PIPING SHALL BE FILLED WITH COMPRESSED AIR TO 150 PSI AND HELD FOR A PERIOD OF FOUR (4) HOURS. EACH JOINT SHALL BE CHECKED BY LIQUID SOAP OR SPECIAL LIQUID CHEMICAL FOR LEAKS. NOTE: REMOVE ALL GAS VALVES AND PROTECT FROM DAMAGE
- D. DISINFECTION OF POTABLE WATER SYSTEM: UPON COMPLETION OF INSTALLATION DISINFECT THE WATER SYSTEM BY FILLING IT WITH SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW IT TO STAND FOR NOT LESS THAN SIX (6) HOURS BEFORE FLUSHING THOROUGHLY AND RETURNING TO SERVICE. FURNISH CLEAN WATER SAMPLES TO THE LOCAL AUTHORITY FOR TESTING AFTER THE LINES HAVE BEEN DISINFECTED.THIS PROCEDURE TO BE IN ACCORDANCE WITH STATE PLUMBING CODE.
- E. CLEANUP: CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT THOROUGHLY BEFORE FINAL INSPECTION, LEAVING ALL READY FOR USE.
- F. GUARANTEE: MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. DEFECTIVE WORK AND ALL DAMAGES CAUSED THEREBY WHICH MAY OCCUR DURING THE TERM OF THE AFOREMENTIONED GUARANTEE WILL BE REPAIRED AND/OR REPLACED AT NO EXPENSE TO THE OWNER.
- G. OWNER'S MANUAL: PROVIDE THE OWNER, AT THE COMPLETION OF THIS CONTRACT, WITH AN "OWNER'S MANUAL" SO LABELED. THE MANUAL SHALL CONSIST OF A THREE-RING LOOSE-LEAF BINDER CONTAINING ALL PRINTED MATTER SUCH AS: GUARANTEE CARDS, CLEANING INSTRUCTIONS, NOTICES TO OWNER, OPERATING MANUALS, AND MAINTENANCE INSTRUCTIONS THAT MAY BE CONTAINED IN THE SHIPPING CARTONS OR **EQUIPMENT HOUSINGS**

FIRE STOPPING

THE FOLLOWING:

WHEN REQUIRED BY LOCAL CODES OR ORDINANCES. CONTRACTOR SHALL BE REPSONSIBLE FOR

- 1.1 SYSTEM DESCRIPTION
- A. SPECIFIED FIRESTOPPING SYSTEMS ARE BASED ON A SOLID SEALANT ONLY, OR COMBINATIONS OF SOLID SEALANT, FOAM SEALANT, AND REFRACTORY FIBERS OF THICKNESS REQUIRED TO ATTAIN HOUR RATINGS.
- B. SYSTEMS SHALL:
- 1. PROVIDE A FLEXIBLE SEAL TO PREVENT PASSAGE OF FIRE, SMOKE, TOXIC GASES AND WATER THROUGH OPENINGS, AND PREVENT TRANSMISSION OF SOUND AND VIBRATION FROM THE PENETRATING ELEMENT TO THE STRUCTURE
- 2. PROVIDE HOUR RATINGS INDICATED AND IN ACCORDANCE WITH ASTM E 814 OR UL 1479.
- C. REGULATORY REQUIREMENTS:
- 1. PRODUCTS SHALL BE 100% ASBESTOS AND PCB FREE.

1.5 PROJECT CONDITIONS

A. EXISTING CONDITIONS: VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. CORRECT UNSATISFACTORY CONDITIONS BEFORE PROCEEDING. PROCEED WITH INSTALLATION ONLY AFTER PENETRATIONS OF SUBSTRATES HAVE BEEN COMPLETED AND SUPPORTING BRACKETS INSTALLED.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. MANUFACTURERS: 3M, HILTI, NELSON, OR UL LISTED EQUALS.

PART 3 - EXECUTION

3.1 CONDITION OF SURFACES

A. UNLESS OTHERWISE PERMITTED BY MANUFACTURER, DO NOT APPLY FIRESTOPPING MATERIALS TO POLYCARBONATES; MATERIALS THAT BLEED OILS, PLASTICIZERS OR SOLVENTS; ORGANO-METALLIC COMPOUNDS; SILICONE RUBBER CONTAINING ORGANO-TIN COMPOUND; SULFUR, POLYSULFIDES, POLYSULFONES AND OTHER SULFUR CONTAINING MATERIALS; AMINES, URETHANES AND AMINE-CONTAINING MATERIALS; AND UNSATURATED HYDROCARBON PLASTICIZERS.

B. 3.2 PREPARATION

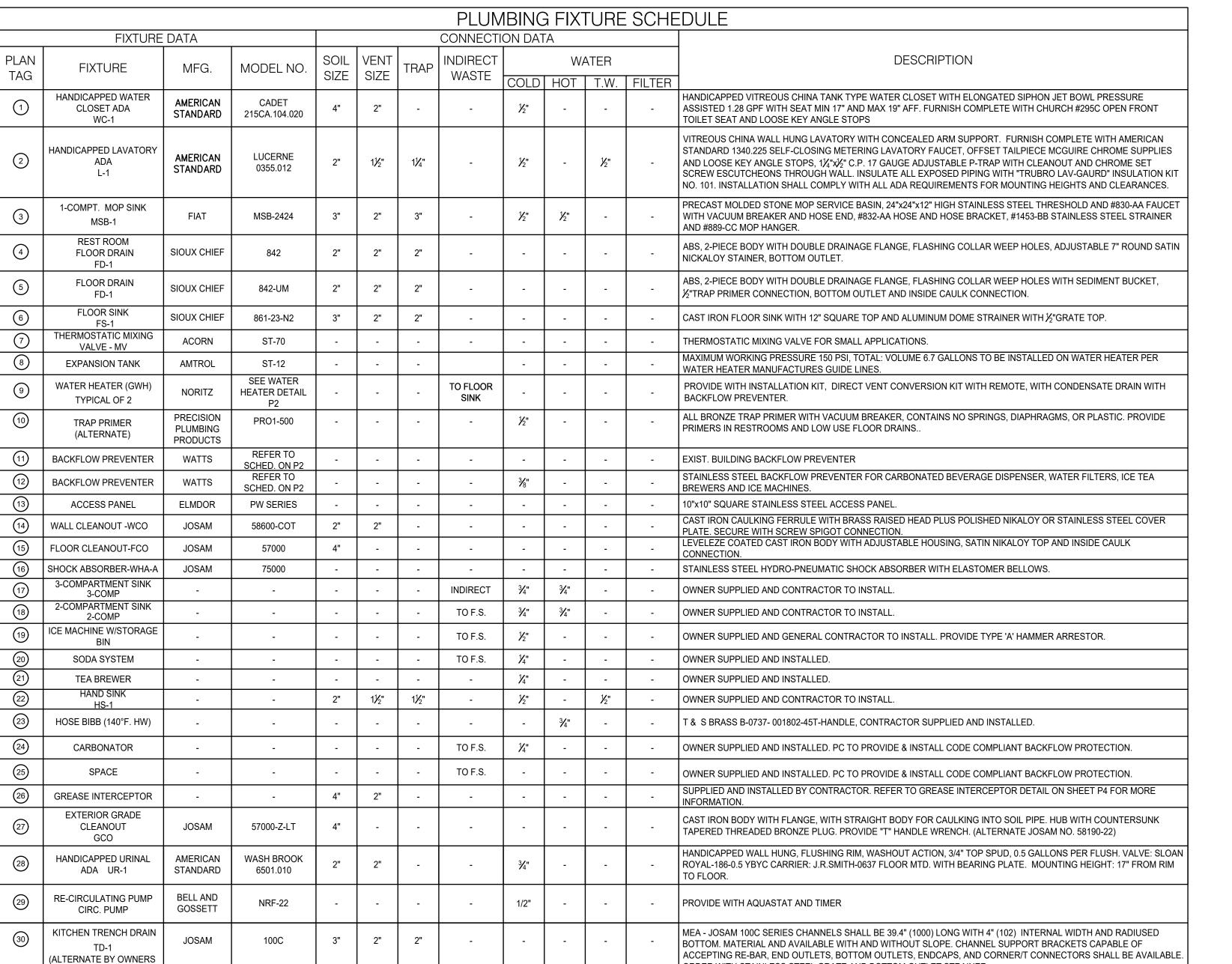
C. THOROUGHLY CLEAN SURFACES AND SPACES TO RECEIVE FIRESTOPPING MATERIALS, REMOVING FOREIGN MATTER SUCH AS DIRT, DUST, MOISTURE, RUST, DO NOT USE CLEANING SOLVENTS WHICH LEAVE RESIDUE. WIPE JOINTS FREE OF SOLVENT USING CLEAN, DRY WHITE CLOTHS OR WHITE LINTLESS PAPER. DO NOT USE ALCOHOL OR ALCOHOL BASED MATERIALS. DO NOT PERMIT SOLVENT TO AIR DRY. DO NOT USE DETERGENTS OR SOAP AND WATER SOLUTIONS FOR CLEANING UNLESS SPECIFICALLY RECOMMENDED BY THE SEALANT

D. FOLLOW MANUFACTURER'S DIRECTIONS FOR SPECIFIC PRODUCTS AND SURFACES.

3.4 INSTALLATION

ORDER WITH STAINLESS STEEL GRATE AND BOTTOM OUTLET STRAINER

A. INSTALL SYSTEMS IN ACCORDANCE WITH UL SYSTEMS, AND MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS, USING APPROVED EQUIPMENT AND SO AS TO ACHIEVE THE REQUIRED FIRE RATING.



RELEASE FOR CONSULTANT: AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES



DALLAS, TX 75240 TELEPHONE: (972) 686-6500 FAX: (972) 686-650

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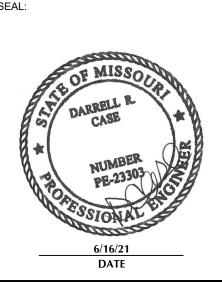
5501 LBJ FREEWAY, 5TH FLOOR

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PROJECT INFORMATION

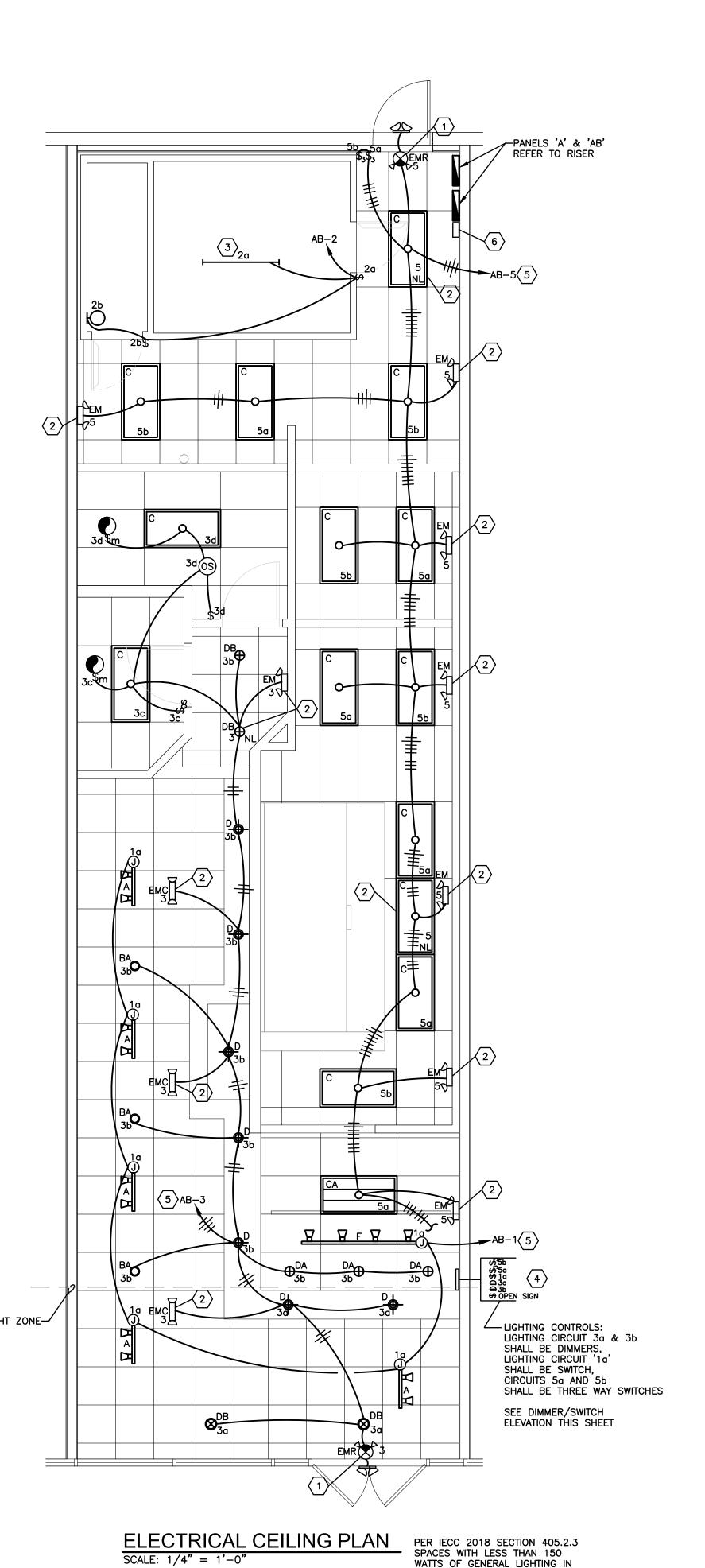


DRAWN BY: CHECKED BY: DRC DATE: FOR PERMIT & BID 06-10-21

PROJECT NO.: 2021-0158

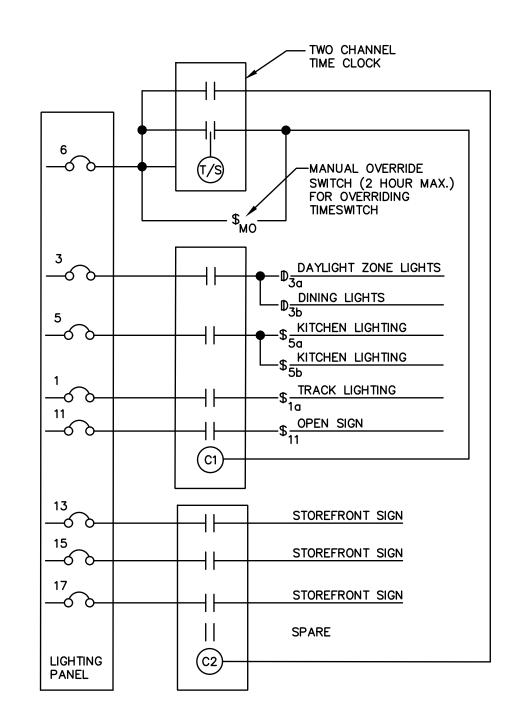
DATE:

PROJECT LOCATION: LEE'S SUMMIT, MO

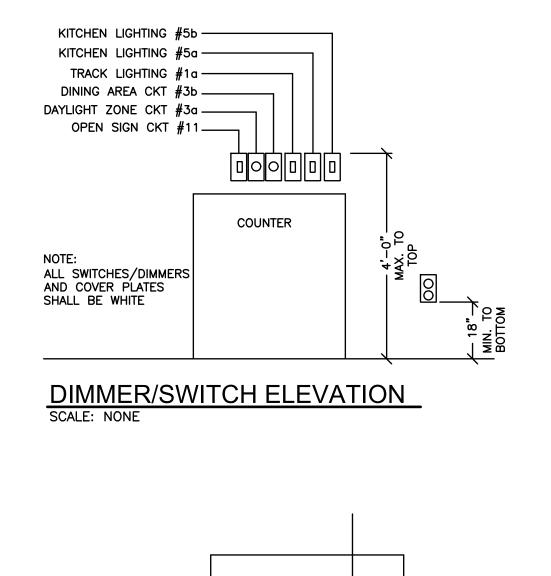


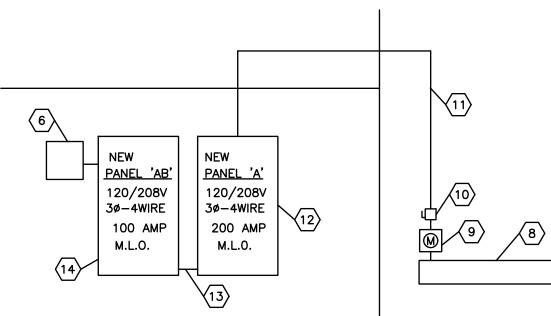
DAYLIGHT ZONE DO NOT REQUIRE

DAYLIGHT CONTROLS



LIGHTING CONTROLS DIAGRAM





POWER RISER DIAGRAM

KEYED NOTES

- CONNECT EXIT SIGN WITH REMOTE EGRESS DUAL HEAD FIXTURE AHEAD OF ALL LIGHTING CONTROLS OF GENERAL LIGHTING CIRCUIT SERVING THIS AREA.
- CONNECT NIGHT/EXIT/EMERGENCY LIGHT AHEAD OF ALL LIGHTING CONTROLS OF GENERAL LIGHTING CIRCUIT SERVING THIS AREA.
- LIGHTING FIXTURE AND LIGHT SWITCH FOR COOLER AND FREEZER SHALL BE FURNISHED BY EQUIPMENT SUPPLIER. EC TO MAKE FINAL ELECTRICAL
- CONNECTION. SEE KEYED NOTE 8 ON SHEET E2. 4 EC TO PROVIDE OVERRIDE SWITCHES, SEE DIMMER/SWITCH ELEVATION.
- ROUTE CIRCUIT THRU SWITCH/DIMMER AT SALES COUNTER AND BACK THRU TIME SWITCH CONTROLLED CONTACTOR. EC TO PROVIDE UNSWITCHED HOT LEG TO ALL EMERGENCY AND EXIT LIGHTS ON CIRCUIT AS NOTED.
- 6 EC TO PROVIDE ASTRONOMIC INTERMATIC ET2825C TIME SWITCH AND CONTACTORS AS REQUIRED TO CONTROL LIGHTS AND SIGNAGE.
- $\overline{7}$ NOT USED.
- 8 EXISTING ELECTRICAL DISTRIBUTION GUTTER. VERIFY EXACT LOCATION IN FIELD PRIOR TO BIDDING
- 9 EXISTING 200 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE, METER SOCKET AT DISTRIBUTION GUTTER. EC TO ARRANGE FOR THE INSTALLATION OF PROPERLY SIZED METER WITH THE LOCAL UTILITY.
- 10 EXISTING 200 AMP, 208 VOLT, 3 PHASE, NEMA 3R, DISCONNECT SWITCH, AND EC TO PROVIDE 200 AMP FUSES. VERIFY ALL REQUIREMENTS WITH LANDLORD'S REPRESENTATIVE AND NOTIFY TENANT'S REPRESENTATIVE OF ANY DIFFERENCES PRIOR TO BIDDING. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR CONTRACTOR'S FAILURE TO VERIFY SITE CONDITIONS PRIOR TO BIDDING.
- EC TO PROVIDE (4) #3/0-CU FEEDERS AND (1) #6 GND IN 2" CONDUIT. EC TO VERIFY ALL LOCATIONS AND ROUTING IN FIELD PRIOR TO BIDDING.
- EC TO PROVIDE 200 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE PANEL 'A'. SEE PANEL SCHEDULE ON SHEET E2.
- $\langle 13 \rangle$ EC TO PROVIDE (4) #3-CU FEEDERS AND (1) #8 GND IN 1-1/2" CONDUIT.
- EC TO PROVIDE 100 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE PANEL 'AB'. SEE PANEL SCHEDULE ON SHEET E2.

5501 LBJ FREEWAY, 5TH FLOOR DALLAS, TX 75240 TELEPHONE: (972) 686-6500

RELEASE FOR

DEVELOPMENT SERVICES

CONSULTANT: AS NOTED ON PLANS REVIEW

FAX: (972) 686-650 DISCLAIMER:

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PROJECT INFORMATION

ELEC	CTRICAL SYMBOLS
SYMBOL	DESCRIPTION
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
WP	WEATHERPROOF
NL 051	NIGHT LIGHT (CONNECT TO UNSWITCHED LEG OF CIRCUIT NOTED)
GFI ST	GROUND FAULT CURRENT INTERRUPTER PROTECTED DEVICE SHUNT TRIP CIRCUIT
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
PRS	PROJECT RESOURCE SOLUTIONS
PROVIDE	FURNISH AND INSTALL COMPLETE
J	JUNCTION BOX, MOUNTING HEIGHT
€	20A, 1P, 125V, GROUNDING TYPE DUPLEX RECEPTACLE (+18" AFF UNO)
⊕	20A, 1P, 125V, GROUNDING TYPE DOUBLE DUPLEX RECEPTACLE
	250 VOLT WALL OUTLET BY EC.
♣ ™	CEILING MOUNTED EXHAUST FAN WITH MANUAL DISCONNECT
□30/NF/3	DISCONNECT SWITCH: 30 AMP, NON-FUSED, 3 POLE
\$	LIGHT SWITCH
\$3	LIGHT SWITCH (3 WAY)
\$4	LIGHT SWITCH (4 WAY)
\$os	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH AT 3'-6" AFF TO CENTERLINE (WATT STOPPER #DW100-WH OR EQUAL)
<u>(S</u>	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH (WATT STOPPER #DT-355 OR EQUAL)
ф	DIMMER SWITCH: LUTRON NOVA SERIES DIMMERS COMPATIBLE WITH LOW VOLTAGE LIGHTING FIXTURES AND RATED FOR LOAD NOTED IN PANEL SCHEDUL REFER TO LOADS AT PANELBOARD SCHEDULE. MOUNTING HEIGHT AS INDICATE PER PLAN.
₽ ▶	COMMUNICATIONS JUNCTION BOX FOR DATA/COMM. DEVICE PLATE. EC TO ROUT

COMMUNICATIONS JUNCTION BOX FOR DATA/COMM. DEVICE PLATE. EC TO ROUTE 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING AND BEND AT 90° TOWARDS TTB. EC TO PROVIDE PLASTIC BUSHING ON END OF CONDUIT.

P=VOICE, D=DATA JUNCTION BOX FOR CABLE TV/DATA DEVICE PLATE. EC TO ROUTE 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING AND BEND AT 90° TOWARDS CD/SAT UNIT. EC TO PROVIDE PLASTIC BUSHING ON END OF

CONDUIT RUN CONCEALED IN CEILING OR WALL. NUMBER OF HASH MARKS INDICATE NUMBER OF #12 WIRES WHEN MORE THAN TWO ARE REQUIRED UNLESS NOTED OTHERWISE. ALL CIRCUITS SHALL INCLUDE EQUIPMENT GROUND SIZED PER NEC. HASH MARK AHEAD OF NEUTRAL INDICATES UNSWITCHED LEG. CURLED HASH MARK INDICATES DEDICATED GROUND WIRE REQUIRED.

12" ABOVE FINISHED FLOOR TO CENTERLINE

LIGHTING FIXTURE SWITCHING DESIGNATION - LETTER 'F' INDICATES THE FIXTURE TYPE (SEE FIXTURE SCHEDULE) THE NUMBER '5' INDICATES THE CIRCUIT IN THE PANEL NOTED AND THE LOWER CASE LETTER 'a' INDICATES THE SWITCH LEG TO CONNECT THE FIXTURE TO.

ALL SWITCHES, COVER PLATES, RECEPTACLES SHALL BE 'WHITE'

TELEPHONE SERVICE SHALL BE THREE (3) LINE SERVICE AS FOLLOWS: A. LINE 1 SHALL BE PRIMARY TELEPHONE LINE.

B. LINE 2 SHALL BE ROLLOVER TELEPHONE LINE & FAX LINE.

C. LINE 3 SHALL BE FAX & DATA LINE. SIGNAGE INSTALLATION: THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE MOUNTING OF THE TRANSFORMERS AND FINAL ELECTRICAL CONNECTION OF THE OWNER PROVIDED EXTERIOR BUILDING AND INTERIOR SIGNAGE. ALL SIGNS SHALL BE ON INDIVIDUAL DEDICATED CIRCUITS W/DEDICATED GROUNDS

PROJECT NO.: 2021-0158 DRAWN BY: JJV

CHECKED BY: DRC FOR PERMIT & BID 06-10-21

DATE:

REVISION:

PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER:

GENERAL NOTES:

- 1. PLACEMENT OF LIGHT FIXTURES SHALL BE SET AS DIMENSIONED & AS SCHEDULED.
- 2. LIGHT FIXTURES SHALL BE SUPPLIED AS SCHEDULED WITH NO EXCEPTIONS.
- 3. MINIMUM WIRE SIZE SHALL BE NO. 12 COPPER.
- 4. ALL EMERGENCY AND EXIT LIGHTING SHALL BE WIRED AHEAD OF THE SWITCHING. EMERGENCY LIGHTING SHALL BE ON THE SAME CIRCUITRY AS THE GENERAL LIGHTING IN THE AREA THEY SERVE. EMERGENCY LIGHTING WIRING SHALL BE IDENTIFIED (MARKED) PER NEC 700.9. PROVIDE GENERAL LIGHTING CIRCUITS, WHICH HAVE EMERGENCY LIGHTING CONNECTIONS, WITH LOCK-OUT ON BREAKER.
- 5. ALL LIGHTING FIXTURES IN FOOD AND BEVERAGE PREP AREA SHALL BE SHATTERPROOF.

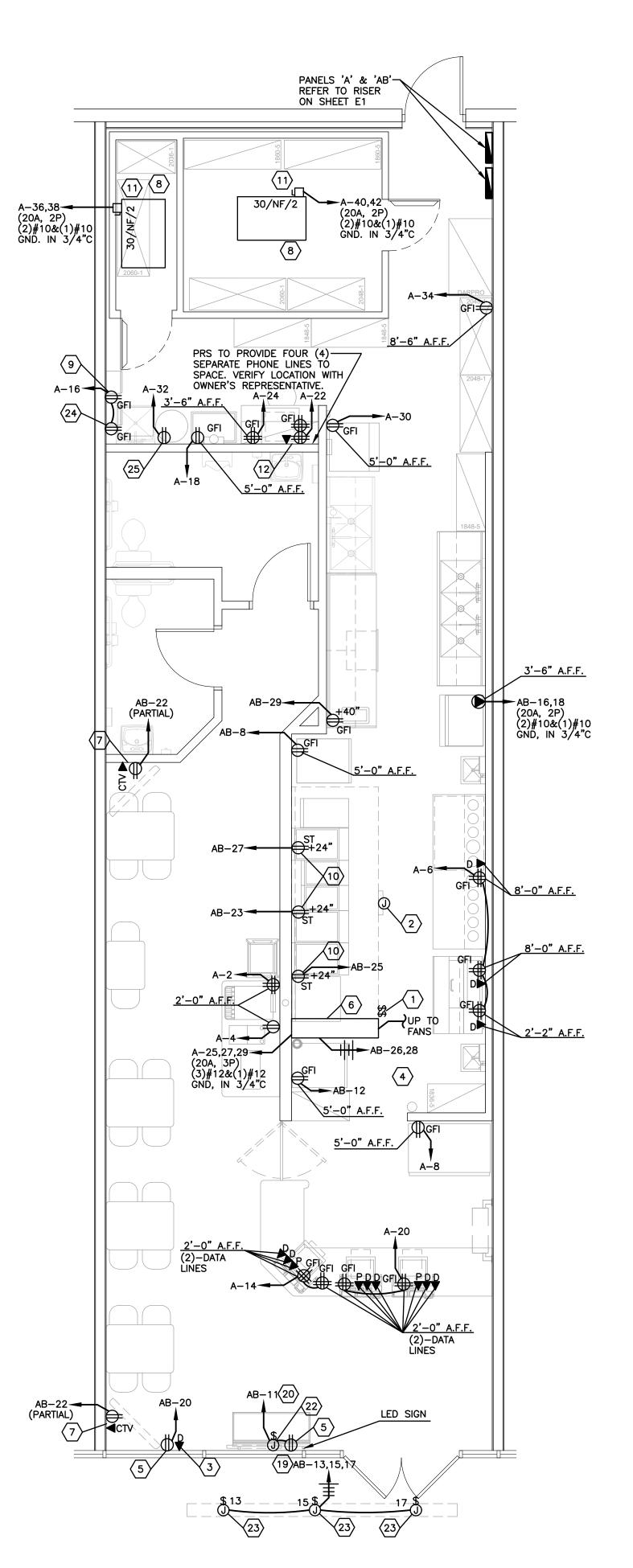
		LIC	GHTING FIX	TOIL				
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTAGE	MOUNTING	WATTS PER FIXTURE	FIXTURE DESCRIPTION	NOTES
Α	JUNO	TRACK: R2BL FIXTURE: R600L-3KN-BL	10W LED	120	SUSPENDED	20	2'-0" TRACK WITH (2) TRACK HEADS (BLACK)	1,10
BA	RAMCRAFT LIGHTING	SERIES 110 - 10 WATT MAX LABEL	10W PAR38	120	SUSPENDED	10	5-3/4" ROUND PENDANT W/ 15'-0" BLACK CORD	2,3
С	RAB INDOOR	EZPAN2x4-50YN/D10	50W 5300 LUMEN LED	120	RECESSED	50	2'X4' LED TROFFER WITH ACRYLIC LENS WITH 0-10V DIMMING DRIVER	4
CA	RAB INDOOR	SWISH2x4-49YN/D10	49W 6200 LUMEN LED	120	RECESSED	49	2'X4' LED LENSED TROFFER WITH 0-10V DIMMING DRIVER	4
D	HALO	H245ICAT/LT460WH6930	8W LED	120	RECESSED	8	4" ROUND LED CAN WITH WHITE TRIM	4,5
DA	HALO	H750ICAT-LT560WH6930	10W LED	120	RECESSED	10	6" ROUND LED CAN WITH WHITE TRIM	4,5
DB	HALO	H750ICAT-RLD6069301	10W LED	120	RECESSED	10	6" ROUND LED CAN WITH BLACK TRIM	4,5
F	JUNO	TRACK: R6WH FIXTURE: R600L-3KN-WH	10W LED	120	SURFACE	40	6'-0" TRACK WITH (4) TRACK HEADS (WHITE)	4
X	SURE-LITE	APX7-R	WITH UNIT	120	SURFACE	3	EXIT LIGHT WITH LED LAMPS	6,8
ЕМ	SURE-LITE	CU2-LED	WITH UNIT	120	SURFACE	3	LED EMERGENCY LIGHT	6,9
ЕМС	EXITRONIX	LED90BL	WITH UNIT	120	SURFACE	3	CEILING MOUNTED LED EMERGENCY LIGHT (BLACK)	6,8
EMR	SURE-LITE	APCH7-R WITH APWR2 BASE & (2) REMOTE HEADS	WITH UNIT	120	SURFACE	3	COMBINATION EXIT/EMERGENCY LIGHT WITH (2) REMOTE EGRESS HEADS	6,8,9
ЕМХ	SURE-LITE	APC7-R	WITH UNIT	120	SURFACE	3	COMBINATION EXIT LIGHT WITH DUAL LAMP EMERGENCY LIGHT	6,9

SUPPLIER NOTE:

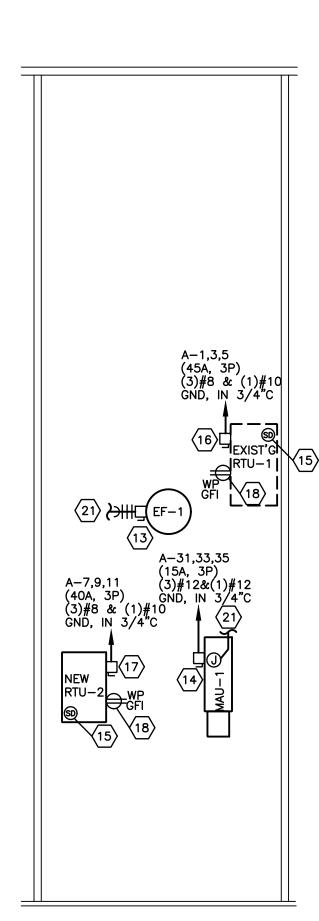
ALL LIGHTING TO BE PURCHASED THROUGH: MELETIO ELECTRICAL SUPPLY, 10930 HARRY HINES, DALLAS, TEXAS 75220 JIM ELLIS (SALES MANAGER) DIRECT LINE (972)-559-6943, JELLIS@MELETIO.COM

LIGHT FIXTURE SCHEDULE NOTES:

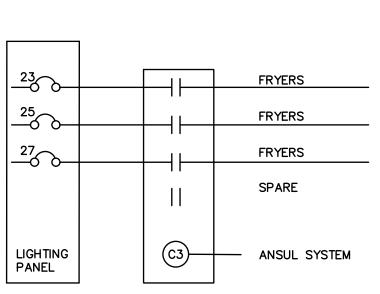
- MOUNT TO SCHEDULED CEILING BOTTOM OF TRACK MOUNTED TO OF BOTTOM OF FRAMING AND 3'-0" FROM ADJACENT WALLS UNLESS NOTED OTHERWISE. SUSPEND TRACK ON 3/8" ALL-THREAD.
- MOUNT TO SCHEDULED CEILING: ALL AREAS SUSPEND TO 8'-0" A.F.F. PROVIDED WITH FACTORY INSTALLED MAX LABEL NOTED.
- MOUNT TO SCHEDULED CEILING. CEILING INSULATION MUST BE 3" AWAY ALL SIDES
- EMERGENCY AND EXIT LIGHTS SHALL HAVE MINIMUM 90 MINUTE BATTERY BACKUP. PROVIDED WITH SHATTERPROOF LAMP.
- MOUNT TO BOTTOM OF SCHEDULED CEILING. FURR-DOWN AS REQUIRED. MOUNT TO SCHEDULED PARTITION AT 8" BELOW FINISHED CEILING.
- VERIFY QUANTITY OF CURRENT LIMITERS WITH DRAWING, NOT REQUIRED ON ALL TYPE 'A' TRACK.



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



ELECTRICAL ROOF PLAN



EC TO PROVIDE CONTACTOR, SIZE AS REQUIRED, TO SHUTDOWN CIRCUITS NOTED UPON ACTIVATION OF ANSUL SYSTEM. EC TO VERIFY CONTROL COIL VOLTAGE WITH HOOD SYSTEM SUPPLIER ANSUL SYSTEM SHUTDOWN

GENERAL NOTES

- EC TO PROVIDE HANDLE TIE ON ALL MULTIWIRE BRANCH CIRCUITS PER NEC 210.4(B).
- 2. ALL SPARE CIRCUIT BREAKERS AND DISCONNECT SWITCHES SHALL BE LEFT IN THE OFF POSITION.
- EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.
- CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL BE PREVENTED. SEAL AS REQUIRED PER NEC 300.7(A). PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO ` COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.

ANSUL SYSTEM CONTROL WIRING NOTE:

EC SHALL BE RESPONSIBLE FOR ALL LINE VOLTAGE CONTROL WIRING FROM ANSUL SYSTEM TO SHUNT TRIP BREAKER AND GAS VALVE. COORDINATE ALL WORK WITH HVAC CONTRACTOR.

KITCHEN RECEPTACLE NOTES

- ALL KITCHEN SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC SECTION 210.8 (B) (1)-(10).
- ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A GFCI CIRCUIT BREAKER SHALL USED TO FEED THE
- ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.

KEYED NOTES

- (1) EC TO PROVIDE CONDUIT AND FEEDERS FROM HOOD CONTROLS TO (2) SWITCHES FURNISHED ON HOOD FOR HOOD LIGHTS AND EXHAUST/MAKE-UP AIR FANS.
- 2 GFI RECEPTACLE PROVIDED WITH HOOD FOR FRYER TIMER PANEL EC TO CONNECT TO PRE-WIRED JUNCTION BOX MOUNTED ON TOP OF HOOD. CONNECT TO SHUNT TRIP CONTROLLED CIRCUIT NOTED.
- EC TO PROVIDE JUNCTION BOX, ADJACENT TO SHOW WINDOW RECEPTACLE, WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR 4G CRADLE POINT.
- ALL 15 AND 20 AMP 120V OUTLETS IN KITCHEN AND PREP AREA SHALL BE GFI PER NEC.
- EC TO PROVIDE DUPLEX RECEPTACLE MOUNTED IN SOFFIT A MAXIMUM OF 18" ABOVE WINDOW OR 4" BELOW CEILING WHICHEVER IS LOWER FOR SHOW WINDOW REQUIREMENTS. FIELD VERIFY LOCATION.
- 6 HOOD CONTROL PANEL PROVIDED BY HOOD MANUFACTURER. ROUTE HOOD LIGHTS, FIRE SUPPRESSION, MAKEUP AIR AND EXHAUST FAN CIRCUITS THROUGH CONTROL PANEL AND EXTEND TO HOOD AND FANS, AS REQUIRED. EXTEND CONTROLS FEEDERS FROM CONTROLLER TO FANS AS REQUIRED. SEE HOOD DRAWINGS FOR WIRING SCHEMATIC. CONTROL PANEL SHALL SHUT DOWN ALL REQUIRED CIRCUITS UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.
- CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL BE PREVENTED. SEAL AS REQUIRED PER NEC 300.7(A). PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.

(7) EC TO PROVIDE DUPLEX RECEPTACLE AND COAXIAL OUTLET FOR TV MONITOR AT 8'-0" AFF.

- GAS WATER HEATER ON WALL. EC TO PROVIDE GFI RECEPTACLE FOR CONNECTION OF WATER HEATER CONTROLS.
- EC TO PROVIDE RECEPTACLE FOR EQUIPMENT BELOW HOOD AND ROUTE THROUGH CONTACTOR, BY EC, CONTROLLED BY ANSUL SYSTEM TO SHUTDOWN CIRCUITS UPON ACTIVATION. EC TO PROVIDE GFCI CIRCUIT BREAKER IN PANEL NOTED.
- EC TO PROVIDE DISCONNECT SWITCH AND MAKE FINAL CONNECTION TO SELF EVAPORATING COOLER/FREEZER CONDENSER UNIT MOUNTED ABOVE COOLER/FREEZER.

7'-6" AFF AND A MINIMUM 12" AWAY FROM ELECTRICAL PANELS.

- APPROXIMATE LOCATION OF SERVER RACK. ALL DATA IS TO TERMINATE AT THIS LOCATION. TWO DOUBLE DUPLEX RECEPTACLES AND DATA FOR SERVER RACK SHOULD BE MOUNTED AT
- MANUFACTURER PROVIDED, NEMA 3R, DISCONNECT SWITCH ON HOOD EXHAUST FAN, UNIT IS INTERLOCKED WITH HOOD MAKEUP AIR FAN BY HOOD CONTROLS.
- MANUFACTURER PROVIDED, NEMA 3R, DISCONNECT SWITCH ON HOOD MAKEUP AIR FAN. UNIT IS INTERLOCKED WITH HOOD EXHAUST FAN BY HOOD CONTROLS. EC SHALL INSTALL DEDICATED CONTROL CABLES, BY CAPTIVE AIRE, FOR FAN SPEED CONTROL IN DEDICATED CONDUIT FROM HOOD CONTROL PANEL TO CONTROLLER ON MAKEUP AIR UNIT.
- EC TO PROVIDE DUCT SMOKE DETECTOR IN RETURN AIR DUCT TO SHUT DOWN UNIT UPON ACTIVATION. PROVIDE TEST/RESET SWITCH AND PIEZO ALERT SOUNDER AND REMOTE ANNUNCIATOR ALARM LED MOUNTED AS DIRECTED BY LOCATION AHJ. EC TO PROVIDE ALL REQUIRED INTERLOCK WIRING. MAKE FINAL CONNECTIONS TO CIRCUIT #12 IN PANEL 'A'.
- (16) EXISTING 208V, 3P/60AMP, NON-FUSED, NEMA 3R, DISCONNECT AT RTU-1. EC TO PROVIDE NEW FEEDERS AND CONDUIT TO PANEL AS REQUIRED.
- EC TO PROVIDE 208V, 3P/60AMP, NON-FUSED, NEMA 3R, DISCONNECT AT RTU-2. EC TO PROVIDE NEW FEEDERS AND CONDUIT TO PANEL AS REQUIRED.
- (18) EC TO PROVIDE WEATHER RESISTANT TYPE, GFI RECEPTACLE IN WEATHERPROOF WHILE IN USE COVER AT HVAC EQUIPMENT, COVER SHALL BE EXTRA DUTY RATED PER SECTION 406.9(B). CONNECT TO CIRCUIT #4 IN PANEL 'AB'.
- (19) ROUTE CIRCUIT THROUGH TIME SWITCH CONTROLLED CONTACTORS.
- ROUTE THROUGH LIGHT SWITCH ADJACENT TO CASH COUNTER, SEE SHEET E1.
- 21) EC TO ROUTE ROOF MOUNTED EQUIPMENT THROUGH TERMINAL BLOCK AT HOOD CONTROL PANEL. SEE SHEET HOOD DRAWING FOR WIRING DIAGRAM.
- (22) EC TO PROVIDE DISCONNECT SWITCH ABOVE ACCESSIBLE CEILING FOR CONNECTION OF SHOW WINDOW SIGN. CONNECT TO SAME CIRCUIT AND CONTROLS TO SHOW WINDOW RECEPTACLE. FIELD VERIFY LOCATION WITH SIGN SUPPLIER.
- EC TO PROVIDE NEMA 3R, DISCONNECT SWITCHES AND CIRCUITS FOR THREE EXTERIOR SIGNS. EC SHALL VERIFY EXACT QUANTITY AND LOCATION OF SIGNAGE WITH FRANCHISEE PRIOR TO ROUGH-IN.
- HOT WATER RECIRCULATION PUMP (1/25HP) AND TIMER BY PLUMBING CONTRACTOR. EC TO PROVIDE GFI RECEPTACLE FOR CONNECTION AS DIRECTED BY PLUMBING CONTRACTOR.
- EC TO PROVIDE CO2METER.COM MODEL #RAD-0102 REMOTE CO2 SENSOR ADJACENT TO CO2 TANK. VERIFY ALL LOCATIONS WITH EQUIPMENT SUPPLIER.

23 20 1 SPARE										
CIRCUIT BREAKER TYPE	PANI	EL E	BOARD A				SURFAC	E M	OUN	TED
Color Colo	120/2	08 VC	OLTS <u>3</u> PHASE <u>4</u>	_WIRE	200	AMP	. BUS <u>22,000</u>	A.I.C	. RA	TED
A	CIRCL	ЛТ В	REAKER TYPE <u>200</u> AMP. M							
SUBSTING RTU-1 SUBSTING RECHANDISER SUBSTING RTU-1 SUBSTING RECHANDISER SUBSTING RECHANDISER SUBSTING RTU-1 SUBSTING RECHANDISER SU	KT. TRIP O. AMPS	NO. POLE	LOAD SERVED				LOAD SERVED	NO. POLE	TRIP AMPS	CKT NO.
1660 3960	ı		<		>		SODA SYSTEM	1	20	2
3480 1080 SANDWICH/SALAD 1 20 6 6 6 6 7 7 7 7 7 7	45	3	EXISTING RTU-1			>	TEA MACHINE	1	20	4
1200 3480 2 DOOR MERCHANDISER 1 20 8 1 20 10 3480 200 HVAC SMOKE DETECTOR 1 20 12 12 12 12 12 12	5						> SANDWICH/SALAD	1	20	6
1 3 40 3 10 20 10 3480 10 20 10 10 10 10 10 1	7		<	3480 1200	>		2 DOOR MERCHANDISER	1	20	8
13 20 1 SPARE	40	3	RTU-2		3480	>	SPARE	1	20	10
13 20 1 SPARE 800 POS/PRINTER RECEPTACLES 1 20 14 15 20 1 SPARE	11						HVAC SMOKE DETECTOR	1	20	12
10 10 10 10 10 10 10 10	3 20	1	SPARE		>		•	1	20	14
19 20 1 SPARE	15 20	1	SPARE	<	400	>		1	20	16
21 20 1 SPARE 720 SERVER RACK 1 20 22 23 20 1 SPARE 720 DESK RECEPTACLES 1 20 24 25 SPARE 1 20 26 27 20 3 EXHAUST FAN EF-1 SPARE 1 20 28 29 1 1250 SPARE 1 20 28 29 1 1250 SPARE 1 20 30 31 1 20 30 31 1 20 30 31 1 20 30 31 1 30 SPARE 1 20 SPARE 1 20 30 31 1 30 SPARE 1 20 SPARE	7 20	1	SPARE			200	BOX'N BAG SYSTEM	1	20	18
23 20 1 SPARE	9 20	1	SPARE	800	>		POS/PRINTER RECEPTACLES	1	20	20
1250	21 20	1	SPARE		720	>	SERVER RACK	1	20	22
SPARE 1 20 26	23 20	1	SPARE			400	DESK RECEPTACLES	1	20	24
27 20 3 EXHAUSI FAN EF-1	25		<	`	>		SPARE	1	20	26
1320 ICE MACHINE 1 20 30 30 31 32 32 33 33 35 36 37 39 100 3 PANEL AB 150	27 20	3	EXHAUST FAN EF-1		1250	>	SPARE	1	20	28
200 CO2 MONITORING SYSTEM 1 20 32 33 33 15 3 MAKE UP AIR FAN MAU-1 865 0il SAVER SYSTEM 1 20 34 36 37 38 37 39 100 3 PANEL AB 5385 1150 COOLER CONDENSER 2 20 40 42 40 40	29					1250 1320) ICE MACHINE	1	20	30
35 15 3 MARE UP AIR FAN MAU-1 500 OIL SAVER SYSTEM 1 20 34 36 37 38 39 100 3 PANEL AB 1150 5910 COOLER CONDENSER 2 20 40 42 42 42 42 42	31		<		>		CO2 MONITORING SYSTEM	1	20	32
55 1050 5110 5110 5110 38 38 39 100 3 PANEL AB 5385 1150 COOLER CONDENSER 2 20 40 42 42	33 15	3	MAKE UP AIR FAN MAU-1			>	OIL SAVER SYSTEM	1	20	34
37 38 38 38 38 38 38 38	35						FREEZER CONDENSER		00	36
39 100 3 PANEL AB 5385 COOLER CONDENSER 2 20 40 42	37		<u> </u>				FREEZEK CUNDENSEK		20	38
1150	39 100	3	PANEL AB				COOLER CONDENSER	2	20	
	-			19015	19370		>			

41		150		42
	19015 19370 20	0865		
LOAD DESCRIPTION	DEMAND FACTOR	VOLT -	AMPS	
	D.F.	CONNECTED	DEMAND	
LIGHTING & FRONT SIGN	1.25	5215	6520	
RECEPTACLES	1st 10KVA @ 100% REMAINDER @ 50%	3480	3480	
MOTORS	ALL @ 100% PLUS 25% OF LARGEST	10745	11680	
MISC. EQUIPMENT	1.00	2800	2800	
KITCHEN EQUIPMENT	NEC TABLE (220.56) 0.65	14690	9550	
*HVAC EQUIPMENT	1.00	22320	22320	
	TOTAL-	59250	56350	

PANELBOARD LOAD = 56350 V.A. FULL LOAD AMPS = 156.5 A.

(LO PROVIDE LOCK-ON DEVICE) (TS CIRCUIT VIA TIMESWITCH) (GFI GFCI TYPE CIRCUIT BREAKER) * HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR

	10	0 /2	001/	OLTS 3 PHASE 4	WIDE	100) AME	P. BUS 22,000		. D.	тс
		-		REAKER TYPE <u>100</u> AMP. N				22,000	A.I.C	. IVA	
				<u> </u>		D- V.				T	Т
	CKT. NO.	TRIP AMPS	NO. POLE	LOAD SERVED	Aø	Bø	Cø	LOAD SERVED	NO. POLE	TRIP	CH
LO	1	20	1	TRACK LIGHTING (16'-0")	1200 200	>		COOLER/FREEZER LIGHTS	1	20	2
LO	3	20	1	FRONT AREA LIGHTS AND RESTROOM LIGHTS & FANS		475 360	>	HVAC GFI RECEPTACLES	1	20	4
LO	5	20	1	KITCHEN/STOCKROOM LIGHTS			640 100	LIGHTING CONTROLS	1	20	6
	7	20	1	SPARE	860	>		REACH-IN REFRIGERATOR	1	20	8
	9	20	1	SPARE			>	SPARE	1	20	1
TS	11	20	1	SHOW WINDOW (SIGN)			500 860	REACH-IN FREEZER	1	20	1
TS	13	20	1	MAIN EXTERIOR SIGN	1200	>		SPARE	1	20	1.
TS	15	20	1	EXTERIOR SIGN		500 1460	\rightarrow	CONVECTION OVEN	2	20	1
TS	17	20	1	EXTERIOR SIGN			500 1460	>		20	1
	19	20	1	SPARE	400	>		SHOW WINDOW RECEPTACLES	1	20	20
	21	20	1	SPARE		900	>	TV MONITORS (2)	1	20	2
GFI	23	20	1	FRYER CONTROLS AND GREASE FILTER			1490	SPARE	1	20	2
GFI	25	20	1	FRYER CONTROLS AND GREASE FILTER	750 500	>		HOOD CONTROLS/LIGHTS	1	15	20
GFI	27	20	1	FRYER CONTROLS AND GREASE FILTER		1490 200	>	HOOD GFI RECEPTACLE	1	15	2
GFI	29	20	1	NACHOS CHEESE DISPENSER			360	SHUNT TRIP SPACE			3

	5110 5385 59	910	
LOAD DESCRIPTION	DEMAND FACTOR	VOLT -	AMPS
	D.F.	CONNECTED	DEMAND
LIGHTING & FRONT SIGN	1.25	5215	6520
RECEPTACLES	1st 10KVA @ 100% REMAINDER @ 50%	760	760
MOTORS	ALL @ 100% PLUS 25% OF LARGEST		
MISC. EQUIPMENT	1.00	1700	1700
KITCHEN EQUIPMENT	NEC TABLE (220.56) 0.65	8730	5675
*HVAC EQUIPMENT	1.00		
	TOTAL	4 C 4 O E	4.4055

PANELBOARD LOAD = 14655 V.A. FULL LOAD AMPS = 40.7 A.

(LO PROVIDE LOCK-ON DEVICE) (TS CIRCUIT VIA TIMESWITCH) (GFI GFCI TYPE CIRCUIT BREAKER)

* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR

RELEASE FOR CONSULTANT: AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

5501 LBJ FREEWAY, 5TH FLOOR DALLAS, TX 75240 TELEPHONE: (972) 686-6500 FAX: (972) 686-650

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PROJECT INFORMATION:

PROJECT NO.: 2021-0158 DRAWN BY: JJV CHECKED BY: DRC DATE:

FOR PERMIT & BID 06-10-21 DATE:

PROJECT LOCATION: LEE'S SUMMIT, MO

DIVISION 16 - ELECTRICAL SPECIFICATIONS

SECTION 16100

ELECTRICAL SPECIAL CONDITIONS

1. GENERAL

- APPLICABLE PROVISIONS OF AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AND DIVISION 1 GENERAL CONDITIONS GOVERN WORK UNDER THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.
- APPLICABLE PROVISIONS OF THIS SECTION GOVERN WORK UNDER ALL OTHER SECTIONS OF DIVISION 16. WORK COVERED BY THIS SECTION SHALL CONSIST OF PROVIDING ALL MATERIAL, LABOR, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE, TESTED AND ADJUSTABLE ELECTRICAL INSTALLATION READY FOR OPERATION AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.
- THE TERM CONTRACTOR AS USED IN THIS SECTION SHALL MEAN ANY CONTRACTOR OR SUBCONTRACTOR WHO HAS CONTRACTED TO PERFORM WORK INCLUDED IN AND DEFINED BY THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.
- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION. ALL MATERIALS AND EQUIPMENT SHALL BE COMMERCIAL GRADE AND SHALL CARRY A U.L. LABEL.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING COMPONENTS THEREOF SHALL BE NEW AND SUCH AS APPEARS ON THE UNDERWRITER'S LABORATORY LIST OF APPROVED ITEMS AND SHALL MEET THE REQUIREMENTS OF RECOGNIZED STANDARDS. EQUIPMENT SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND OTHER APPLICABLE CODES.

2. EXISTING CONDITIONS

- THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED TO OUR OFFICE AT THE TIME OF DESIGN. THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, SECONDARY FEEDER LENGTH, TELEPHONE SERVICE LOCATION, ETC... AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BID. FAILURE TO DO SO MAY CONSTITUTE THAT THE CONTRACTOR PROVIDE ANY AND ALL ADDITIONAL EQUIPMENT, LABOR, ETC... TO MEET THE INTENDED DESIGN PARAMETERS.
- CONTRACTORS SHALL VISIT THE SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS.

3. CONTRACTOR'S RESPONSIBILITY

- PRIOR TO SUBMITTING HIS BID, CONTRACTOR SHALL CAREFULLY EXAMINE THESE CONSTRUCTION DOCUMENTS, THE DEVELOPER'S EXHIBITS, AND THE SITE, TO INQUIRE FULLY INTO DIFFICULTIES AND COSTS OF WORK, AND TO DETERMINE THE SCOPE AND CHARACTER OF WORK TO BE DONE. CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS TO LOCATE AND/OR EXTEND ALL UTILITIES INCLUDING LIGHTING PANELS, POWER PANELS, ELECTRICAL SERVICE, PHONE SERVICE AND/OR MODIFY EQUIPMENT TO MEET THE INTENT OF THE CONTRACT DOCUMENTS, THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER SHALL NOT BE RESPONSIBLE FOR FAILURE OF THE CONTRACTOR TO DETERMINE DIFFICULTIES AND COSTS IN THE PROJECT OR FOR HIS OVERLOOKING OF THE REQUIREMENTS.
- IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THE PLANS AND SPECIFICATIONS, OR IF THERE ARE ANY REQUIREMENTS WHICH ARE AMBIGUOUS IN THE CONTRACTOR'S OPINION, HE SHOULD CALL THIS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATIONS OF THE ARCHITECT AND ENGINEER.
- CONTRACTOR SHALL SCHEDULE HIS WORK IN COOPERATION WITH OTHER TRADES INSTALLING INTERRELATED WORK. ALL WORK SHALL BE SCHEDULED TO MAINTAIN SERVICE TO ALL REQUIRED AREAS DURING THE COURSE OF THE CONSTRUCTION EXCEPT FOR SHORT TERM PLANNED SHUTDOWNS, ANY OF WHICH SHALL BE PRE-SCHEDULED WITH THE OWNERS AGENT AND THE LANDLORD.

4. WORKMANSHIP AND GUARANTEE

IN ENTERING INTO A CONTRACT COVERING THIS WORK, THE CONTRACTOR ACCEPTS THE SPECIFICATIONS, AND GUARANTEES THAT THE WORK WILL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR FURTHER GUARANTEES THAT THE WORKMANSHIP AND MATERIAL WILL BE OF THE BEST PROCURABLE AND THAT NONE BUT EXPERIENCED WORKMEN EXPERIENCED IN EACH PARTICULAR CLASS OF WORK WILL BE EMPLOYED. CONTRACTOR FURTHER GUARANTEES TO REPLACE AND MAKE GOOD AT HIS OWN EXPENSE ANY DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL WHICH MAY DEVELOP WITHIN ONE (1) YEAR AFTER FINAL PAYMENT AND ACCEPTANCE BY THE ARCHITECT.

5. CODES AND STANDARDS

CONTRACTOR WILL COMPLY IN ALL RESPECTS WITH THE ADOPTED BUILDING CODES, APPLICABLE LAWS, ORDINANCES, AND REGULATIONS AS MAY APPLY ACCORDING TO THE RULING OF THE CONTROLLING PUBLIC OFFICIAL SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE LAWS, ORDINANCES AND REGULATIONS, OR WHICH DOES NOT RECEIVE THE APPROVAL OF THE CONTROLLING PUBLIC OFFICIAL, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES. ALL ELECTRICAL EQUIPMENT SHALL SHALL BEAR THE UNDERWRITER'S LABORATORY LABEL.

6. FEES ON PERMITS

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAKING PAYMENT FOR ALL FEES. PERMITS AND INSPECTIONS RELATING TO HIS WORK.

7. CONTRACT DRAWINGS

- THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND INTENT OF THE DESIGN AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS AND THE WORK OF OTHER TRADES WILL PERMIT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED, NOR IS IT IMPLIED THAT ALL CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE SYSTEMS OR BUILDING COMPONENTS HAVE BEEN INDICATED. THE CONTRACTOR SHALL INVESTIGATE ALL EXISTING CONDITIONS AFFECTING THE WORK AND ARRANGE HIS WORK ACCORDINGLY. PROVIDING SUCH FITTINGS, OFFSETS, ACCESSORIES AND DEVICES AS MAY BE REQUIRED. THE DRAWINGS AND SPECIFICATIONS ARE MUTUALLY COMPLEMENTARY. AND ANY WORK REQUIRED BY ONE BUT NOT BY THE OTHER SHALL BE PERFORMED BY BOTH. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND SERVICES REQUIRED FOR A COMPLETE AND WORKING PROJECT AT NO ADDITIONAL COST EVEN THOUGH EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN. EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN.
- CONTRACTOR SHALL NOT SCALE FROM THE DRAWINGS BUT SHALL FOLLOW THE ARCHITECTURAL DRAWINGS OR EXISTING BUILDING CONDITIONS WHERE APPLICABLE, IN ESTABLISHING DIMENSIONS AND LINES OF RUN, SINCE DIMENSIONS ON THE FINAL ARCHITECTURAL DRAWINGS OR AT THE SITE MAY NOT COINCIDE WITH THOSE SHOWN ON THE ELECTRICAL DRAWINGS, THE CONTRACTORS SHALL VERIFY WITH THE DIMENSIONED ARCHITECTURAL DRAWINGS OR THE SITE CONDITIONS THE EXACT MATERIAL QUANTITIES AND LENGTHS
- SIGNIFICANT DEVIATIONS OR CHANGES FROM THE DRAWINGS WHICH ARE REQUIRED TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS MUST BE REVIEWED WITH THE ARCHITECT AND APPROVED BEFORE PROCEEDING

8. SHOP DRAWINGS

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, FOUR (4) COPIES MINIMUM, FOR ALL MANUFACTURED PRODUCTS. EACH SHOP DRAWING SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO ASSURE THAT ALL DIMENSIONS, QUANTITIES, CONNECTIONS, CAPACITATES AND ACCESSORIES SHOWN ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, AND SHALL BE MARKED OR STAMPED TO CONFIRM THAT SUCH REVIEW WAS MADE AND COMPLIANCE WAS CONFIRMED.
- APPROVAL OF SHOP DRAWINGS BY THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER, WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH ALL TERMS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PERFORMANCE OF ALL EQUIPMENT PURCHASED, FOR PROPER FIT, AND OTHER DIMENSIONAL REQUIREMENTS.

9. RECORD DRAWINGS

CONTRACTOR SHALL MAINTAIN AT THE JOB SITE ONE SET OF DOCUMENTS AS "RECORD DRAWINGS" FOR THE PURPOSE OF DAILY MARKING OF ALL SUBSTANTIAL REVISIONS TO THE DOCUMENTS INCLUDING BUT NOT LIMITED TO ELECTRICAL CHANGES, AND LOCATIONS OF UTILITIES, PANELBOARDS, DISCONNECTS, STARTERS AND OTHER DEVICES REQUIRING PERIODIC OPERATIONAL ATTENTION, ADJUSTMENT, OR SERVICE INCLUDING ACCESS THERETO. AT THE COMPLETION OF THE PROJECT, THIS SET SHALL BE RETURNED TO THE ARCHITECT FOR THE PURPOSE OF MAKING FINAL "AS-BUILT DRAWINGS".

10. EQUIPMENT SUBSTITUTION

- SPECIFIC MANUFACTURERS AND MODELS OF EQUIPMENT HAVE BEEN USED IN THE DEVELOPMENT OF THE DRAWINGS AND DESIGNS. THIS CONTRACTOR MUST SUBMIT TO THE OWNER ANY CHANGES AND/OR SUBSTITUTIONS FOR APPROVAL PRIOR TO INSTALLATION OR EXECUTION. ANY CHANGES WHICH DO NOT RECEIVE THE OWNER'S APPROVAL MAY BE SUBJECT TO REMOVAL OR REPLACEMENT AS ORIGINALLY SPECIFIED. AND WILL BE AT THE CONTRACTOR'S EXPENSE.
- IF THIS CONTRACTOR SUBSTITUTES FOR SPECIFIED EQUIPMENT ANY OTHER EQUIPMENT WHICH REQUIRES ANY CHANGES TO THE DESIGN, ALL COST OF REDESIGN AND RECONFIGURATION RESULTING FROM SAID SUBSTITUTION SHALL BE BORNE BY THE SUBMITTING CONTRACTOR.

11. EQUIPMENT INSTALLATION AND SUPPORT

- CONTRACTOR SHALL SUPPORT PLUMB, RIGID AND TRUE-TO-LINE ALL WORK AND EQUIPMENT INSTALLED. THIS CONTRACTOR SHALL DETERMINE HOW EQUIPMENT, FIXTURES, ETC., ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED AND SHALL PROVIDE ACCESSORIES REQUIRED FOR PROPER SUPPORT WHETHER SHOWN ON THE DRAWINGS OR NOT. IF SUPPORTS ARE REQUIRED, CONTRACTOR SHALL SUBMIT DRAWINGS TO THE ARCHITECT FOR APPROVAL
- PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTALLATION AND MAINTENANCE LITERATURE. COMPONENTS REQUIRING PERIODIC MAINTENANCE OR ADJUSTMENTS SHALL BE LOCATED OR INSTALLED AS TO PERMIT ACCESS WITHOUT DAMAGE TO STRUCTURE, FINISHES OR OTHER EQUIPMENT.

ALL CONDUIT CONNECTING TO SWITCHGEAR, PANELS, MOTORS, AND OTHER EQUIPMENT SHALL BE INSTALLED WITHOUT STRAIN AT THE CONNECTIONS. THE CONTRACTOR MAY BE REQUIRED, AS DIRECTED, TO DISCONNECT CONDUITS TO DEMONSTRATE THAT THEY HAVE BEEN SO CONNECTED.

ALL EXISTING EQUIPMENT, NOT INDICATED TO BE INCORPORATED INTO THE NEW SYSTEM SHALL BE DISCONNECTED BY THIS CONTRACTOR FOR REMOVAL BY OTHERS FROM THE JOB SITE. CARE SHALL BE USED SO THAT NO DAMAGE IS DONE TO EXISTING BUILDING, PIPING, DUCTWORK, AND/OR ELECTRICAL EQUIPMENT. ANY DAMAGE ATTRIBUTED TO THIS CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR.

- ALL CUTTING THAT MAY BE NECESSARY FOR THE INSTALLATION OF THE WORK OR ANY REQUIRED PATCHING THAT RESULTS THEREFROM SHALL BE DONE BY THE PROPER TRADE INVOLVED AND SHALL BE INCLUDED AS PART OF THIS CONTRACT. PATCH TO DUPLICATE UNDISTURBED ADJACENT FINISHES, COLORS, TEXTURES AND PROFILES. COLUMNS, BEAMS, GIRDERS OR JOISTS SHALL NOT BE CUT.
- B. ALL WORK AFFECTING ROOF OR STRUCTURES SHALL BE PERFORMED BY LANDLORD'S CONTRACTOR AT TENANT'S EXPENSE.

COMPLETION AS IT PERTAINS TO THE CONTRACT COMPLETION DATE IS DEFINED AS THE DAY THE PROJECT IS TURNED OVER TO THE OWNER IN THOROUGHLY CLEAN CONDITION. READY FOR THE OWNER TO TAKE POSSESSION. ALL FIXTURES, MOTORS, EQUIPMENT AND ALL OTHER ELECTRICAL EQUIPMENT FURNISHED OR INSTALLED BY THE CONTRACTOR SHALL BE THOROUGHLY CLEANED.

15. <u>TESTS</u>

- PROVIDE THE TESTS AS OUTLINED HEREINAFTER AND OTHER TESTS NECESSARY TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM. CORRECT PROMPTLY ANY FAILURE OR DEFECTS REVEALED BY THESE TESTS AND RECONDUCT TEST ON THE
- B. TEST THE GROUNDS WITH A GROUND RESISTANCE DIRECT READING SINGLE-TEST MEGGER.
- C. INSULATION RESISTANCE BETWEEN PHASE CONDUCTORS AND GROUND NOT LESS THAN 1,000,000 OHMS.
- D. THE PANELBOARDS SHALL HAVE PHASE CURRENTS BALANCED TO WITHIN +/- 10% VARIATION BETWEEN AVERAGE PHASE CURRENT AND MEASURED INDIVIDUAL PHASE.
- AN OPERATIONAL TEST OF THE EMERGENCY LIGHTS AND THE EXIT LIGHTS SHALL BE PERFORMED FOR THE OWNER TO DEMONSTRATE CONFORMANCE TO THE SPECIFICATIONS.

16. TEMPORARY ELECTRICAL SERVICE

- TEMPORARY ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. TEMPORARY LIGHTING SHALL BE PROVIDED BY A LAMP LOCATED FOR EVERY 625 SQUARE FEET OF BUILDING AREA WITH A MINIMUM OF ONE PER ROOM. THE LAMP TO BE 100 WATT AND SHALL BE MAINTAINED BY THE GENERAL CONTRACTOR.
- TEMPORARY POWER DISTRIBUTION SHALL BE SUFFICIENT TO ACCOMMODATE THE TEMPORARY LIGHTING AND CONSTRUCTION OPERATIONS, INCLUDING THE USE OF POWER TOOLS (BUT NOT INCLUDING HEAVY-DUTY ELECTRICAL WELDING UNITS), ELECTRICAL HEATING UNITS, AND START-UP OF SPECIFIED BUILDING EQUIPMENT, WHICH IS TO BE TESTED, STARTED OR PLACED INTO OUR USE PRIOR TO COMPLETION OF ITS PERMANENT POWER CONNECTIONS.

17. EXCAVATION AND BACKFILL

CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED AS SHOWN ON PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITY SERVICES, SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

A. CONTRACTOR SHALL ENSURE ALL PENETRATIONS THROUGH EXTERIOR ENVELOPE ARE COMPLETELY SEALED AGAINST ALL AIR AND WATER INFILTRATION

SECTION 16200 **ELECTRICAL POWER AND LIGHTING**

1. RELATED DOCUMENTS

- APPLICABLE PROVISIONS OF AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", DIVISION 1 GENERAL CONDITIONS AND SECTION 16100 ELECTRICAL SPECIAL CONDITIONS GOVERN WORK UNDER THIS SECTION.
- REFER TO SECTION 16100 ELECTRICAL SPECIAL CONDITIONS REGARDING REGULATIONS AND REQUIREMENTS AFFECTING ALL WORK DESCRIBED IN THIS SECTION.

2. POWER SERVICE

A. POWER SERVICE FOR THIS PROJECT SHALL BE PROVIDED FROM THE UTILITY CO. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TO INSURE THAT ALL WORK AND MATERIALS ARE IN CONFORMANCE WITH THE UTILITY CO'S REQUIREMENTS.

3. NAMEPLATES

- A. ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, PANELBOARDS, DISCONNECTS TRANSFORMERS, CONTROLS, ETC., SHALL BE IDENTIFIED WITH THREE PLY LAMINATED PLASTIC. THE OUTSIDE LAMINATIONS SHALL BE BLACK. ENGRAVING SHALL EXTEND THROUGH THE FRONT LAMINATION SO THAT THE BLACK LETTERS APPEAR ON A WHITE BACKGROUND. NAMEPLATES SHALL BE PERMANENTLY ATTACHED WITH
- B. CIRCUIT DIRECTORY SHALL BE TYPEWRITTEN (HANDWRITTEN IS NOT ACCEPTABLE) AND SHALL IDENTIFY CIRCUIT AS TO TYPE AND LOCATION AS FOLLOWS:
 - "LTG" FOR LIGHTING CIRCUIT FOLLOWED BY AREA IN WHICH CIRCUIT APPEARS, I.E., "STOCKROOM", "CASH "RECEPT" - FOR RECEPTACLE CIRCUIT FOLLOWED BY AREA IN WHICH RECEPTACLE APPEARS, "STOREFRONT", "CASH REGISTER", ETC.
- "MOTOR" FOR MOTOR FOLLOWED BY THE EQUIPMENT IDENTIFICATION AND AREA IN WHICH MOTOR IS LOCATED, I.E. "EXH FAN TOILET", "AHU-ROOF", ETC.

4. <u>CONDUIT</u>

- A. CONDUIT SHALL BE STANDARD STEEL, RIGID IMC OR EMT (THIN WALL). CONDUIT SHALL BE CONCEALED IN FINISHED AREAS EXCEPT AS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE. INDOOR EMT CONNECTIONS SHALL BE SET SCREW TYPE FITTING WHERE ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION. EXTERIOR EMT CONNECTIONS SHALL BE COMPRESSION TYPE.
- MINIMUM SIZES OF CONDUIT SHALL BE 3/4" EXCEPT 1/2" FOR SWITCH LEGS. EMT SHALL BE GALVANIZED OR ELECTRO-GALVANIZED. EMT SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS RUN ABOVE SUSPENDED CEILINGS OR CONCEALED IN INTERIOR PARTITIONS. EMT SHALL NOT BE CONCEALED IN POURED CONCRETE
- C. USE HEAVY WALL CONDUIT OR PVC FOR UNDER SLAB INSTALLATIONS.
- D. THE USE OF NONMETALLIC-SHEATHED CABLE, TYPE NM, IS NOT ACCEPTABLE.
 - THE USE OF METAL CLAD CABLES, TYPE MC, IS ACCEPTABLE WHERE APPROVED BY THE LOCAL AHJ. ALL BRANCH CIRCUIT HOME RUNS TO PANELBOARDS AND DEDICATED BRANCH CIRCUITS SHALL BE IN
 - 2. ALL METAL CLAD CABLES, SHALL BE PROVIDED WITH A GROUND WIRE.
- E. ALL OPENINGS IN FIRE AND SMOKE WALLS, PARTITIONS, FLOORS AND OTHER SIMILAR PENETRATIONS FOR ELECTRICAL CONDUITS, CABLE OR EQUIPMENT, WHETHER CUT OR IN PLACE, SHALL BE CLOSED WITH A UL APPROVED FIRE RESISTANT SILICONE FOAM SEALANT TO MAINTAIN THE FULL RATING AND INTEGRITY OF THE PARTITIONS. WALLS OR FLOOR.
- CONDUIT BENDS FOR POWER AND LIGHTING CIRCUITS SHALL NOT BE LESS THAN STANDARD RADIUS BENDS. CONDUIT BENDS FOR FEEDERS, TELEPHONE AND COMMUNICATION CIRCUITS SHALL NOT BE LESS THAN LONG
- G. O.Z. TYPE DX, TX, OR AX CONDUIT EXPANSION DEFLECTION FITTINGS ARE REQUIRED IN ALL CONDUIT RUNS WHERE MOVEMENT MAY BE ENCOUNTERED. ALL EMT COUPLINGS SHALL BE COMPRESSION TYPE.
- H. EXPOSED CONDUIT SHALL BE SECURELY SUPPORTED IN PLACE PER CODE BUT ON A MAXIMUM OF 10 FOOT INTERVALS, WITHIN THREE FEET OF EACH BEND, AT EVERY OUTLET OR JUNCTION BOX AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPE WORK. CONDUITS SHALL BE RUN PARALLEL TO AND AT RIGHT ANGLES TO THE BUILDING LINES. GENERALLY, CONDUIT SHALL BE RUN IN CONTACT WITH STRUCTURAL PARTS OF THE BUILDING SO AS TO AVOID SUSPENDED LENGTHS OF CONDUIT. CONDUIT SHALL BE INSTALLED AS TO BE ACCESSIBLE FOR REPLACEMENT AND MAINTENANCE AND GENERALLY CONDUIT SHALL BE INSTALLED TO PERMIT DRAINAGE.

WIRE AND CABLE

ALL WIRE AND CABLE SHALL BE COPPER AND RUN IN CONDUIT. ALL WIRE AND CABLE FEEDERS AND BRANCH CIRCUITS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE CURRENT EDITION OF THE N.E.C. AND SHALL MEET ALL ASTM SPECIFICATIONS. WIRE AND CABLE SHALL BE NEW, SHALL HAVE SIZE, GRADE OF INSULATION VOLTAGE AND MANUFACTURER'S NAME PERMANENTLY MARKED ON OUTER COVERING AT REGULAR INTERVAL AND SHALL BE DELIVERED IN COMPLETE COILS OR REELS WITH IDENTIFYING SIZE AND INSULATION TAGS.

- B. THE ELECTRICAL CONTRACTOR SHALL CALCULATE VOLTAGE DROP ON CONDUCTORS WITH LENGTHS GREATER THAN 75 FEET FROM THE PANELBOARD AND PROPERLY SIZE THE CONDUCTORS PER N.E.C.
- POWER CONDUCTORS: NO WIRE LESS THAN NO. 12 SHALL BE USED EXCEPT FOR CONTROL CIRCUITS OR LOW VOLTAGE WIRING. WIRE SIZES NO. 12 TO NO. 10 SHALL BE SOLID EXCEPT WHERE OTHERWISE INDICATED. WIRE SIZES NO. 8 AND LARGER SHALL BE STRANDED. ALL WIRE SIZES SHOWN ARE AMERICAN WIRE GAUGE SIZES. SIZES NO. 12 AWG THROUGH NO. 8 AWG SHALL BE "THHN." SIZE 4 AWG AND LARGER SHALL BF "THW."
- D. CONTINUITY: ALL WIRES SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.
- E. ACCEPTABLE MANUFACTURERS: CABLE AND WIRE SHALL BE STANDARD TYPE AS MANUFACTURED BY GENERAL CABLE COMPANY, CAROL, ANACONDA, ROM OR ITT ROYAL.

6. COLOR CODING

A. A COLOR CODING SYSTEM AS LISTED BELOW SHALL BE FOLLOWED THROUGHOUT FOR FEEDERS AND BRANCH CIRCUITS AND USED AS A BASIS FOR BALANCING LOAD.

PHASE A--BLACK, PHASE B--RED, PHASE C--BLUE, NEUTRAL--WHITE, GROUND--GREEN

PHASE A--BROWN, PHASE B--ORANGE, PHASE C--YELLOW, NEUTRAL--GRAY, GROUND--GREEN

7. BOXES AND FITTINGS

- A. ALL OUTLETS SHALL BE PROVIDED WITH GALVANIZED OR SHERARDIZED BOXES SUITABLE IN DESIGN TO THE SPACE THEY OCCUPY AND THE PURPOSE THEY SERVE. WALL MOUNTED OUTLET BOXES, EXCEPT FOR 2" PARTITIONS SHALL BE AT LEAST 1 1/2" DEEP AND/OR DEEPER IF REQUIRED BY THE DEVICE THEY HOLD OR THE NATIONAL ELECTRICAL CODE.
- ALL PULLBOXES SHALL BE MADE OF GALVANIZED STEEL, OF METAL GAUGE AND PHYSICAL SIZE AS REQUIRED BY THE N.E.C. FOR THE NUMBER AND SIZE OF RACEWAYS AND CONDUCTORS INVOLVED.
- FIXTURE OUTLET BOXES IN OR ON CEILINGS SHALL NOT BE LESS THAN 1-1/2" DEEP OR LESS THAN 4" SQUARE. ALL OUTLET BOXES INTENDED TO SUPPORT FIXTURES SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS FASTENED THROUGH THE BOTTOM OF THE BOX WITH FOUR BOLTS.

8. <u>CIRCUIT BREAKER PANELBOARDS</u>

- PANELS SHALL BE DEAD FRONT, SAFETY TYPE, FURNISHED WITH BRANCH CIRCUIT PROTECTING DEVICES, EQUIPMENT GROUNDING BOX, MAIN BUS AND CABLE LUGS FACTORY ASSEMBLED, WITH ALL COMPONENTS IN PLACE. READY FOR INSTALLATION.
- CURRENT CARRYING CONTACT SURFACES SHALL BE SILVER OR TIN PLATED. THE CIRCUIT BREAKERS SHALL BE OF THE MOLDED CASE, PLUG-IN TYPE SUITABLE FOR VOLTAGE AND AMPERE RATINGS INDICATED ON DRAWINGS AND IN SCHEDULES AND SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 22,000 AMPERES FOR 120/208V AND 25,000 AMPERES AT 277/480V.
- MAIN BUSES AND CONNECTORS SHALL BE HARD DRAWN COPPER OF 98% CONDUCTIVITY, WITH CURRENT CARRYING CAPACITY TO MAINTAIN ESTABLISHED RISE TESTS AS DEFINED IN UL STANDARD UL 67.
- CABINET SIZES ARE BASED UPON A 20" WIDE BY 6" DEEP PANEL UNLESS OTHERWISE NOTED. PANELBOARDS SHALL BE EQUIPPED WITH FLUSH TYPE LOCK AND CATCH. ALL LOCKS SHALL BE KEYED ALIKE, AND TWO KEYS ARE TO BE SUPPLIED WITH EACH LOCK.
- E. BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH DUTY.
- F. BREAKERS SERVING COOLER, FREEZER AND HVAC EQUIPMENT SHALL BE HACR RATED.
- G. ALL LUGS SHALL BE OF THE SOLDERLESS TYPE AND RATED AT A MINIMUM OF 75 DEGREES.
- H. PROVIDE PANEL DIRECTORY, TYPED AND INSTALLED BEHIND CLEAR PLASTIC COVER ON INSIDE OF THE DOOR.
- PANELBOARDS TO BE BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR EATON.

9. TRANSFORMERS

- A. DRY-TYPE TRANSFORMERS (DOE 2016) SHALL BE OF THE ENCLOSED VENTILATED TYPE WITH KVA AND VOLTAGE RATING AS CALLED FOR ON THE DRAWINGS AND WITH 150° CLASS H INSULATION AND MINIMUM OF SIX STANDARD FULL CAPACITY TAPS. SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE KORFUND OR EQUAL VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY. (MOUNT TRANSFORMER ON VIBRATION ISOLATORS). LOCATE TRANSFORMER AS NOT TO CAUSE SERVICING OR CLEARANCE DIFFICULTIES OF VIOLATIONS WITH OTHER EQUIPMENT.
- B. COMPARABLE EQUIPMENT AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR EATON.

10. TOGGLE SWITCHES

TOGGLE SWITCHES SHALL BE WHITE AND SHALL BE RATED 20 AMPERES 120/277 VOLT AC TYPE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:

SINGLE POLE - 1221-W THREE WAY - 1223-W

OTHERWISE NOTED.

- TOGGLE SWITCHES SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO TOP OF MOUNTING PLATE AND, AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS; THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLATION OF CONDUIT OUTLETS.
- C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SLATER, LEVITON, AND BRYANT WILL BE ACCEPTABLE

11. RECEPTACLES

- A. RECEPTACLES SHALL BE WHITE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS
- DUPLEX RECEPTACLE 20A-125 VOLT 5362-W GFCI DUPLEX RECEPTACLE - 20A-125 VOLT GF5362-W

SLATER, BRYANT AND LEVITON WILL BE ACCEPTABLE.

- B. RECEPTACLES SHALL BE MOUNTED 18" ABOVE THE FINISHED FLOOR TO BOTTOM OF BOX UNLESS
- C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION,

12. <u>DEVICE PLATES</u>

A. DEVICE PLATES SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION, HARVEY HUBBLE INC., BRYANT AND LEVITON WILL BE ACCEPTABLE. PAINT MATCH ADJACENT FINISH COLOR.

13. <u>DISCONNECT SWITCHES</u>

FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE NEMA HEAVY DUTY TYPE AND UNDERWRITERS LABORATORIES LISTED, MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS.

14. GROUNDING

- CONTRACTOR SHALL INSTALL GROUNDING PER N.E.C. ARTICLE 250 EQUIPMENT GROUNDING SHALL USE ONLY APPROVED GROUNDING CLAMPS AND CONNECTORS AS MANUFACTURED BY PENN-UNION, BURNDY, OR O-Z
- GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250 AND THE UTILITY COMPANY REGULATIONS. CONTRACTOR SHALL CONNECT THE GROUNDING ELECTRODE CONDUCTORS TO THE NEUTRAL BAR INSIDE THE MAIN PANEL
- C. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF A CONTINUOUS CONDUIT INSTALLATION AND A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT OR RACEWAY WITH THE FEEDER OR BRANCH CIRCUIT CONDUCTORS. THIS GROUNDING SHALL BE EXTENDED FROM THE HOUSING OF EVERY ELECTRICAL LOAD. THROUGH PANELBOARD STATIC GROUNDING BUSSES, TO THE STATIC GROUNDING BUS IN THE MAIN PANEL. THE GROUNDING BUS SHALL BE BONDED TO THE GROUNDING NEUTRAL BAR INSIDE THE MAIN PANEL.

15. LIGHTING FIXTURES

A. ALL LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW, COMPLETE WITH HANGERS, PLASTER FRAMES AND ALL OTHER NECESSARY ACCESSORIES

B. LED LUMINAIRES

LED FIXTURES SHALL COMPLY WITH IES LM-79-08 APPROVED METHOD FOR MEASURING LUMEN MAINTENANCE OF LED LIGHT SOURCES, COMPLY WITH IES LM-80-08 APPROVED FOR ELECTRICAL AND PHOTOMETRIC MEASUREMENT OF SSL PRODUCT, COMPLY WITH IN-SITU TESTING FOR MORE RELIABLE 2. LED'S SHALL BE RESTRICTED OF HAZARDOUS SUBSTANCES DIRECTIVE (ROHS) COMPLIANT.

- 3. LED ARRAYS SHALL BE SEALED, HIGH PERFORMANCE, LONG LIFE TYPE; MINIMUM 70% RATED OUTPUT
- 4. LUMINAIRES SHALL BE FULLY ACCESSIBLE FROM BELOW CEILING PLANE FOR CHANGING DRIVERS, POWER SUPPLIES AND ARRAYS.
- 5. DRIVERS SHALL BE SOLID STATE AND ACCEPT 120 THROUGH 277 VAC AT 60 HZ INPUT.
- THE LED LIGHT SOURCE SHALL BE FULLY DIMMABLE WITH USE OF COMPATIBLE DIMMERS SWITCH
- DESIGNATED FOR LOW VOLTAGE LOADS.
- 7. LED COLOR TEMPERATURES: SHALL BE AS NOTED ON DRAWING.
- 8. LUMINAIRES SHALL HAVE INTERNAL THERMAL PROTECTION.
- 9. INDOOR LUMINAIRES SHALL HAVE A MINIMUM CRI OF 85.

C. LED POWER SUPPLIES AND DRIVERS

1. SHALL HAVE A POWER FACTOR: 0.90 OR HIGHER.

D. CONTROLLER AND CONTROL SYSTEMS

120 VAC, 23 APMS, CATALOG NUMBER #2127GT.

- 1. THE CONTRACTOR SHALL ENSURE THAT EXTERNAL CONTROL EQUIPMENT IS COMPATIBLE WITH LED CONTROL REQUIREMENTS.
- PROVIDE CONNECTOR TYPES AND WIRING AS APPROPRIATE FOR UN-INTERRUPTED COMMUNICATION BETWEEN DEVICES, CONSIDERING DISTANCE MAXIMUMS, FIELD OBSTRUCTIONS, AND ACCESSIBILITY.
- 3. ENSURE THAT CONNECTION POINTS ARE OPTICALLY ISOLATED FOR SYSTEM NOISE REDUCTION. FOR CONTROL COMPONENTS THAT ARE PART OF THE OVERALL AREA CONTROL SYSTEM. SEE DIMMING CONTROLS SPECIFICATIONS. COMPATIBILITY: CERTIFIED BY MANUFACTURE FOR USE WITH INDIVIDUALLY SPECIFIED LUMINAIRE AND INDIVIDUALLY SPECIFIED POWER SUPPLIES AND/OR DRIVERS.
- THIS CONTRACTOR SHALL VERIFY THE FINAL CEILING AND FINISH SCHEDULES TO INSURE THE PROPER INSTALLATION AND MOUNTING OF FIXTURES AND SHALL COORDINATE BEFORE MAKING SUBMITTALS.

16. <u>LIGHTING CONTROLS</u>

- TIME SWITCHES SHALL BE 24 HOUR, 7 DAY, DAY SKIPPER 365 DAYS AND HOLIDAYS TYPE EQUAL TO INTERMATIC ET2125C TIME SWITCH. CONTACTOR SHALL BE SQUARE D LXG-xx IN NEMA 1 ENGLOSURE.
- PANEL #GR1408LTENC-xMNE1-GR1408-DTCMOD WITH 8 RELAYS AND BUILT-IN TIME CLOCK AND AS MANUFACTURED BY LC&D.

17. TELEPHONE SERVICE

18. SURFACE METAL RACEWAY

THIS CONTRACTOR SHALL INSTALL A TELEPHONE SERVICE CONDUIT AS SHOWN ON THE DRAWINGS AND

FURNISH AND INSTALL (1) 3' x 4' x 3/4" PLYWOOD PANEL MOUNTED ON THE WALL AT LOCATION SHOWN ON

SURFACE METAL RACEWAY SHALL BE TWO PIECE #2100 AS MANUFACTURED BY WIREMOLD. ALL NECESSARY

ACCESSORIES REQUIRED TO FIT THE CONFIGURATION SHOWN SHALL BE PROVIDED. RECEPTACLES SHALL BE

FIRE ALARM SPECIAL CONDITIONS (WHERE REQUIRED)

1. GENERAL

- WINGSTOP'S GC TO COORDINATE ALL LOCAL FIRE ALARM REQUIREMENTS WITH LOCAL FIRE MARSHALL AND PROVIDE FULLY ENGINEERED DRAWINGS SHOWING ALL DEVICES REQUIRED FOR A COMPLETE SYSTEM. GC SHALL INCLUDE THE COST IN THE BASE BID AS A LINE ITEM.
- B. WINGSTOP'S GC SHALL VERIFY MANUFACTURER AND MODEL OF LANDLORD'S EXISTING FIRE ALARM SYSTEM.
- WINGSTOP'S GC SHALL VERIFY ALL FIRE ALARM DEVICES THAT ARE EXISTING TO REMAIN ARE IN PROPER WORKING CONDITION. REPLACE ANY FAULTY DEVICES AS REQUIRED FOR A COMPLETE AND OPERATIONAL

WINGSTOP'S GC SHALL COORDINATE REQUIREMENTS WITH LANDLORD'S FIRE ALARM VENDOR

E. ALL FIRE ALARM WORK SHALL BE PERFORMED BY A LANDLORD APPROVED FIRE ALARM CONTRACTOR. WINGSTOP'S GC IS RESPONSIBLE FOR FIRE ALARM PERMIT. IT IS THE TENANTS CONTRACTOR'S

RESPONSIBILITY TO OBTAIN ALL REQUIREMENTS PRIOR TO SUBMISSION FOR PERMIT.

END OF DIVISION 16

RELEASE FOR

DEVELOPMENT SERVICES

CONSULTANT: AS NOTED ON PLANS REVIEW

5501 LBJ FREEWAY, 5TH FLOOR DALLAS, TX 75240 TELEPHONE: (972) 686-6500 FAX: (972) 686-650

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DISCLAIMER:

PROJECT INFORMATION

DRAWN BY: JJV CHECKED BY: DRC DATE: FOR PERMIT & BID 06-10-21

PROJECT NO.: 2021-0158

REVISION: DATE:

SHEET NUMBER

PROJECT LOCATION:

BUILDING CODES AND STANDARDS USED FOR DESIGN 1. 2018 INTERNATIONAL BUILDING CODE OCCUPANCY CATEGORY: II **DESIGN LOADS** DESIGN LOADS ROOF LIVE LOAD: ROOF DEAD LOAD

20 psf 15 psf WIND LOAD DESIGN CRITERIA WIND IMPORTANCE FACTOR, I 109 MPH (3 SEC GUST) BASIC WIND SPEED: WIND EXPOSURE CATEGORY:

+/- 0.18 SNOW LOAD DESIGN CRITERIA SNOW LOAD IMPORTANCE FACTOR, I 1.0 GROUND SNOW LOAD, Pg: 20 psf FLAT ROOF SNOW LOAD, Pf: 14 psf THERMAL FACTOR, Ct: 1.0 1.0 **EXPOSURE FACTOR, Ce:**

SEISMIC LOAD DESIGN CRITERIA 1.0 SEISMIC IMPORTANCE FACTOR, I: SITE CLASS: SPECTRAL RESPONSE ACCELERATION: Ss=0.100g, S1=0.068g Sds=0.106g, Sd1=0.109g SEISMIC DESIGN CATEGORY:

GENERAL STRUCTURAL NOTES

- THIS DRAWING SET IS TO BE VIEWED AS A WHOLE AND COORDINATED WITH ARCHITECTURAL, MECHANICAL AND OTHER DISCIPLINES. ALL WORK PERTAINING TO A SPECIFIC CONTRACTOR MAY OR MAY NOT BE SHOWN ON SPECIFIC DRAWING SECTIONS. IT IS EACH SUBCONTRACTOR'S RESPONSIBILITY TO PREPARE HIS BID FROM A COMPLETE SET OF PLANS
- THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS. DIMENSIONS NOT SHOWN ON PLAN TO BE COORDINATED WITH ARCHITECTURAL PLANS.
- WHERE INFORMATION PROVIDED IN THESE STRUCTURAL DRAWINGS CONTRADICTS INFORMATION PROVIDED IN PROJECT SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE
- 4. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ANY SIMILAR SITUATION ELSEWHERE ON THE JOB, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN
- THE STRUCTURE SHALL BE ADEQUATELY BRACED AND SHORED DURING ERECTION AGAINST WIND AND ERECTION LOADS. STRUCTURAL MEMBERS ARE DESIGNED FOR "IN-PLACE" LOADS ONLY
- THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENING SIZES, PAD SIZES, AND LOCATIONS WITH THE RESPECTIVE CONTRACTORS.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND INFORMATION
- WHERE GENERAL NOTES OR TYPICAL DETAILS CONTRADICT INFORMATION PROVIDED IN BUILDING SECTIONS, THE BUILDING SECTIONS TAKE PRECEDENCE.
- ALL HOLES THROUGH CONSTRUCTION SHALL BE CORE DRILLED OR SAWCUT ALL REINFORCEMENT AND SUBFRAMING INDICATED ON PLAN SHALL BE INSTALLED
- PRIOR TO PLACING EQUIPMENT. 12. EQUIPMENT WEIGHING LESS THAN 100LBS NOT SHOWN ON PLAN. SEE
- MECHANICAL DRAWINGS.
- 13. WEIGHTS SHOWN ON DRAWING INCLUDE WEIGHTS OF UNIT, CURB, AND ALL ACCESSORIES. DO NOT PLACE UNIT WHEN OPERATING WEIGHT EXCEEDS THAT INDICATED. NOTIFY STRUCTURAL ENGINEER.
- 14. VERIFY LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS.
- FV = FIELD VERIFY (E) = EXISTING

EXISTING CONSTRUCTION NOTES

- 1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING CONSTRUCTION ARE FOR REFERENCE ONLY. FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO PREPARING SHOP DRAWINGS. FABRICATING MEMBERS (STRUCTURAL ITEMS), AND INSTALLATION.
- ALL HOLES THROUGH EXISTING CONSTRUCTION SHALL BE CORE-DRILLED OR SAWCUT. DO NOT CUT ANY REINFORCING STEEL WHILE DRILLING INTO EXISTING CONCRETE. DO NOT TORCH CUT.
- PRIOR TO SUBMITTING SHOP DRAWINGS TO ARCHITECT AND ENGINEER OF RECORD FOR APPROVAL, CONTRACTOR SHALL VERIFY DIMENSIONS BETWEEN NEW CONSTRUCTION AND EXISTING CONSTRUCTION, AND FORWARD TO FABRICATOR FOR THEIR REFERENCE.
- NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND STRUCTURAL DRAWINGS.
- FOR ALL EXISTING CONSTRUCTION: DUE TO LIMITED OBSERVATION, OR NOT BEING ABLE TO VISIT THE EXISTING BUILDING DURING THE PREPARATION OF THESE DOCUMENTS, CASE ENGINEERING HAS ASSUMED THE EXISTING STRUCTURE IS IN LIKE-NEW CONDITION WITH NO CORROSION, DETERIORATION, OR DAMAGE, AND WAS CONSTRUCTED PER ANY ORIGINAL CONSTRUCTION DOCUMENTS PROVIDED (IF ANY EXIST). CONTRACTOR SHALL VERIFY THESE ASSUMPTIONS TO THE BEST OF THEIR ABILITY AND NOTIFY THE ENGINEER OF ANY CONCERNS, ISSUES, OR DISCREPANCIES.
- CONTRACTOR TO VERIFY TOP OF ROOF SLOPE IS AT LEAST 1/4" PER FOOT AFTER PLACEMENT OF ANY NEW LOADS APPLIED TO ROOF OR HUNG FROM ROOF FRAMING. LOADS FROM NEW OR REPLACED ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, ROOF TOP MECHANICAL UNITS (RTU'S) AND ASSOCIATED DUCTWORK, HUNG HOODS, MAKE-UP AIR UNITS, CONDENSERS, COMPRESSORS, EXHAUST FANS, HUNG TRANSFORMERS, ROOFTOP GENERATOR(S), RE-ROOF MATERIALS, NEW CEILINGS, HUNG SIGNAGE, HUNG SPRINKLER PIPING, ETC. ALSO VERIFY THAT ALL ROOF DRAINS INCLUDING INTERIOR PRIMARY AND SECONDARY EMERGENCY OVERFLOW DRAINS AND ANY WALL SCUPPERS ARE CLEAR AND FREE-DRAINING. REPORT RESULTS IN WRITING TO ARCHITECT AND STRUCTURAL ENGINEER AS SOON AS PRACTICAL DURING THE CONSTRUCTION PROCESS.

STRUCTURAL STEEL NOTES

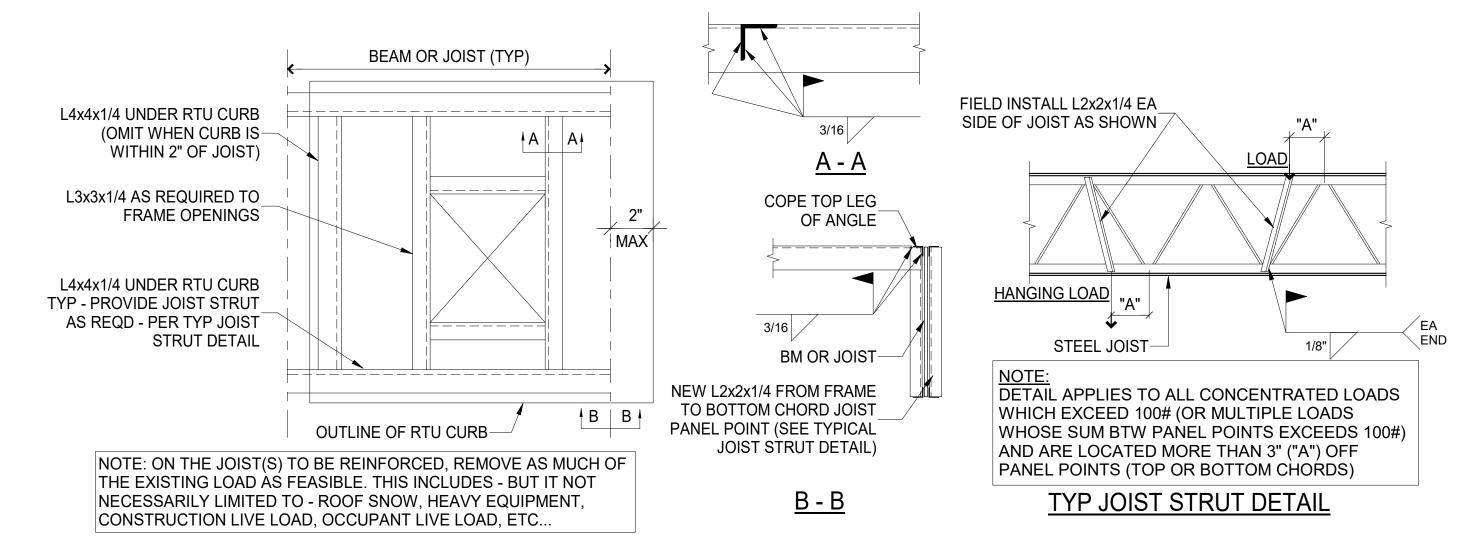
- BOLT HOLES SHALL BE 1/16" OVERSIZE UNLESS OTHERWISE NOTED ON THE DRAWINGS. FIELD BURNING OF BOLT HOLES SHALL NOT BE PERMITTED
- WELDING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN CONFORMANCE WITH AWS D1.1, USING E70 SERIES ELECTRODES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ADDITIONALLY, WELDING IN LOS ANGELES, CA SHALL BE PERFORMED BY LADBS CERTIFIED WELDERS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS AND GRADES:
 - ANGLES, CHANNELS, PLATES, BARS, AND RODS = A36, fy = 36ksi

SPECIAL INSPECTIONS

- REFER TO THE SPECIAL INSPECTION TABLES FOR THE LIST OF ELEMENTS OF CONSTRUCTION THAT SHALL REQUIRE SPECIAL INSPECTION. THIS SHALL BE CONSIDERED A GUIDE. AND THE CONTRACTOR AND INSPECTOR SHALL REFER TO THE IBC FOR COMPLETE REQUIREMENTS, QUALIFICATIONS, EXCEPTIONS, AND SUBMITTALS. REFER TO IBC SECTION 1704 FOR 2003-2009 CODES, AND SECTION 1705 FOR 2012-2018 CODES. THE OWNER SHALL BE RESPONSIBLE FOR EMPLOYING THE SPECIAL INSPECTION AGENCY. ANY "OBSERVATIONS" BY THE EOR WILL NOT BE TO PERFORM SPECIAL INSPECTIONS AND SHALL NOT BE INTERPRETED AS
- COPIES OF ALL INSPECTION REPORTS THAT REPORT COMPLIANCE SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD AND BUILDING INSPECTOR WITHIN 7 CALENDAR DAYS OF COMPLETION OF THAT PORTION OF WORK. A MINIMUM OF ONE (1) PROGRESS REPORT PER MONTH FOR EACH TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD
- SPECIAL INSPECTOR SHALL INFORM ENGINEER OF RECORD IMMEDIATELY OF NON-COMPLIANCE WITH CONSTRUCTION DOCUMENTS OR APPROVED SUBMITTALS. CONTACT ENGINEER OF RECORD THE SAME DAY NON-COMPLIANCE IS DISCOVERED AND FOLLOW UP WITH AN OFFICIAL REPORT WITHIN 2 BUSINESS DAYS.
- THE SPECIAL INSPECTIONS IDENTIFIED ON THE PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR. THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A **BUILDING INSPECTOR**
- SPECIAL INSPECTIONS ARE NOTED AS EITHER "CONTINUOUS" OR "PERIODIC". A "CONTINUOUS" INSPECTION REQUIRES THE PRESENCE OF A QUALIFIED INSPECTOR IN THE VICINITY OF THE WORK BEING PERFORMED FOR 100% OF THAT WORK. A "PERIODIC" INSPECTION REQUIRES PART-TIME OBSERVATION OF THE WORK BEING PERFORMED. THE INSPECTOR SHALL ALSO OBSERVE THE FINAL CONDITION OF THE WORK BEFORE IT IS CLOSED FROM VIEW
- WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED. IT SHALL BE THE RESPONSIBILITY OF THE AGENT TO EMPLOY A SUFFICIENT NUMBER OF SPECIAL INSPECTORS TO ASSURE THAT ALL WORK IS CONTINUOUSLY INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.

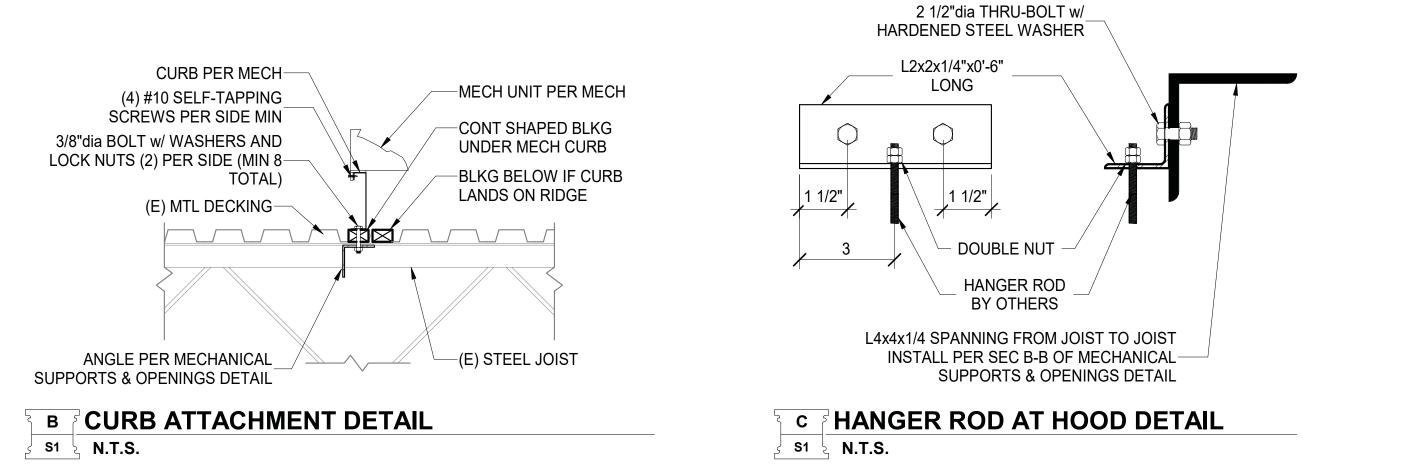
	SPECIAL INSPECTIONS - STEEL TABLE					
ITEM	INSPECTION FREQUENCY	SCOPE				
WELDING	PERIODIC	SINGLE PASS FILLET WELDS NOT GREATER THAN 5/16"				
STRUCTURAL DETAILS	PERIODIC	INSPECT STEEL FRAME FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS FOR MEMBER SIZES AND LOCATIONS, BRACING, AND CONNECTIONS				

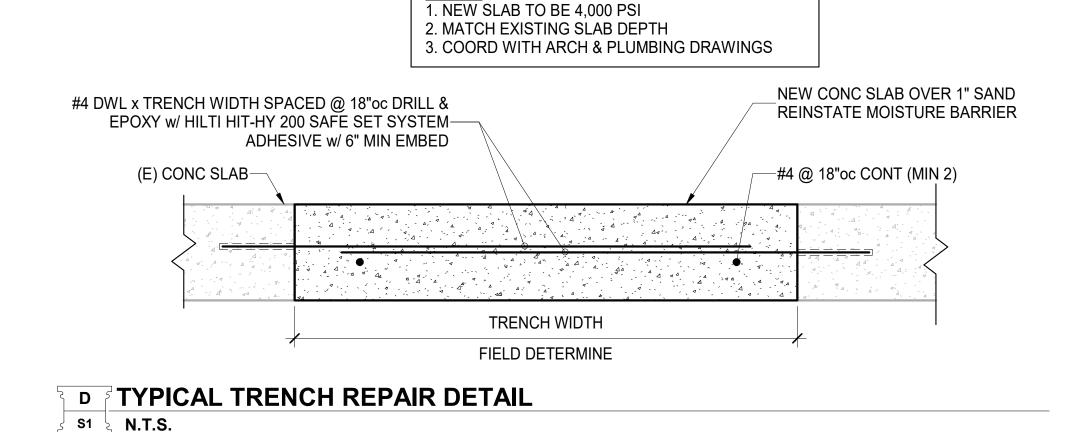
SPE	SPECIAL INSPECTIONS - MASONRY - LEVEL 1 INSPECTION (LEVEL B QUALITY ASSURANCE)					
	· <u>-</u>	CATEGORY I, II, III STRUCTURES				
ITEM	INSPECTION FREQUENCY	SCOPE				
REINFORCEMENT	PERIODIC	LAPPING AND SPLICING OF REBAR; LOCATION, PLACEMENT, GRADE, SIZE, AND TYPE OF REINFORCEMENT AND CONNECTORS				
INSTALLATION OF MASONRY, GROUT, AND MORTAR	PERIODIC	CONSTRUCTION OF MORTAR JOINTS; SIZE AND LOCATION OF STRUCTURAL ELEMENTS; PROTECTION OF MASONRY IN COLD WEATHER (BELOW 40°F) OR HOT WEATHER (ABOVE 90°F); CLEAN GROUT SPACE				
INSTALLATION OF MASONRY, GROUT, AND MORTAR	CONTINUOUS	GROUT PLACEMENT IN CELLS WITH STEEL REINFORCEMENT				
MIXING OF MORTAR AND GROUT	PERIODIC	PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT				
MISCELLANEOUS	PERIODIC	COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED				



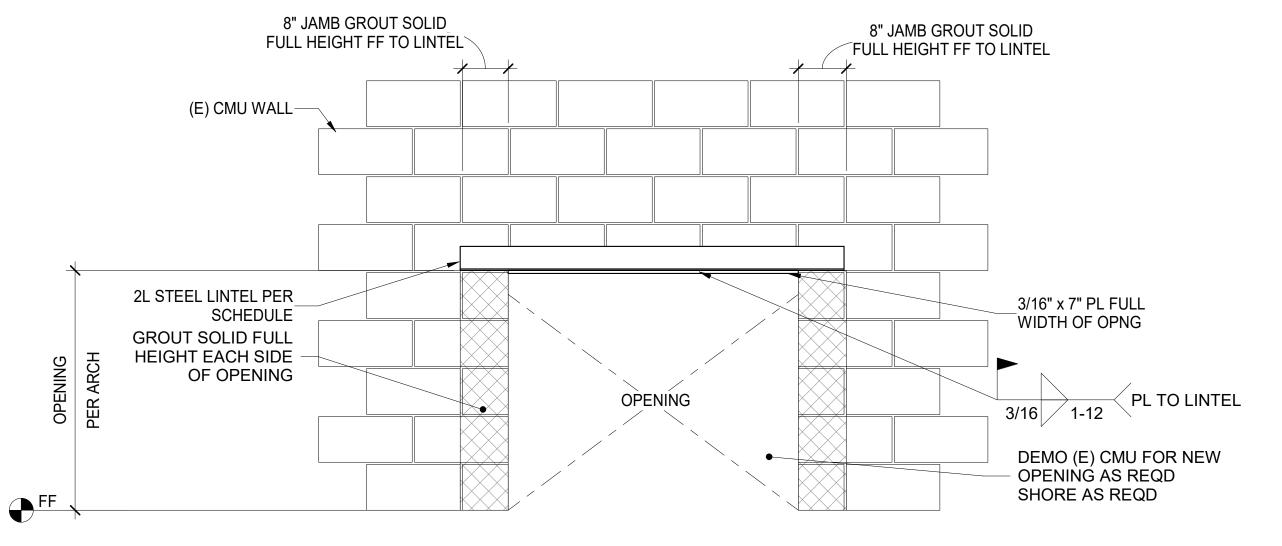
MECHANICAL SUPPORTS & OPENINGS

S1 \ N.T.S.





NOTES:



E TYPICAL CMU WALL OPENING w/ 2L STEEL LINTEL IN (E) CMU S1 \ N.T.S.

CONSULTANTAS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 2 0 ng

RELEASE FOR

CLIENT:

5501 LBJ FREEWAY, 5TH FLOOR DALLAS, TX 75240 TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

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PROJECT INFORMATION:

40



PROJECT INFO: WIL-MO-04-21

DRAWN BY: JS

CHECKED BY: KW DATE: ISSUE: FOR PERMIT & BID 06-10-21 REVISION: DATE:

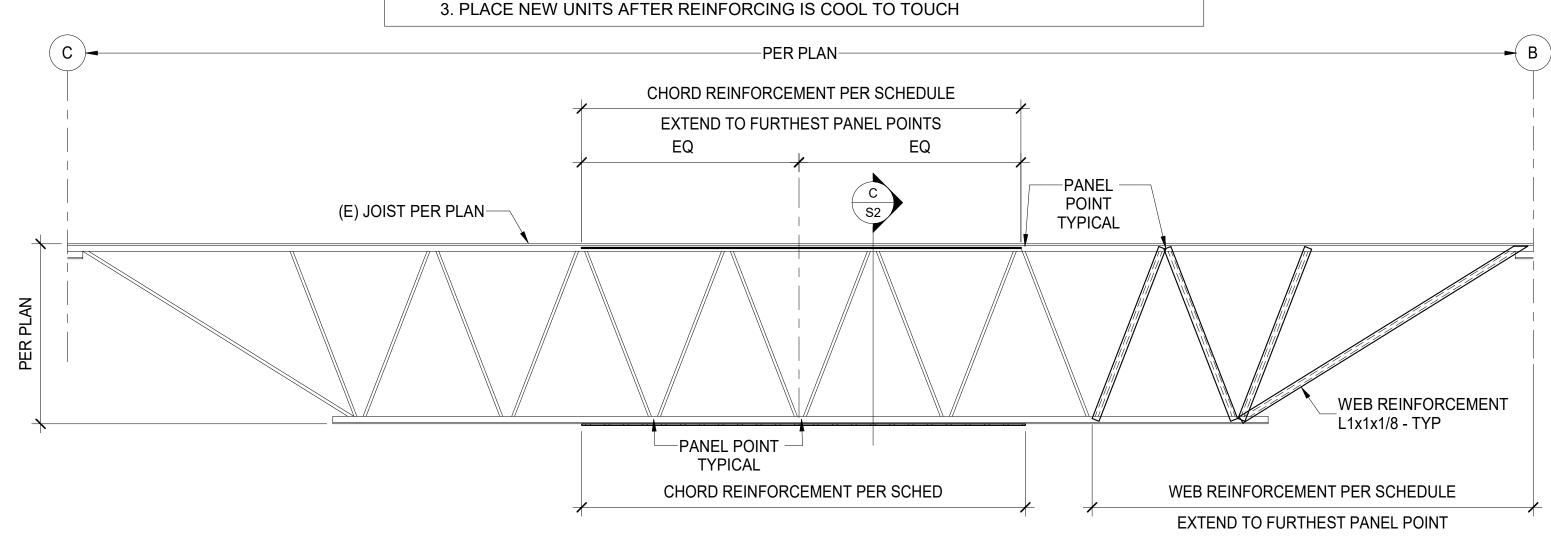
PROJECT LOCATION: LEE'S SUMMIT, MO

SHEET NUMBER / TITLE: **S**1 **GENERAL NOTES AND TYP** __DETAILS_

1. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR 2. CONSTRUCTION SEQUENCE:

1. ON THE JOIST(S) TO BE REINFORCED, REMOVE AS MUCH OF THE EXISTING LOAD AS FEASIBLE. THIS INCLUDES - BUT IT NOT NECESSARILY LIMITED TO - ROOF SNOW, HEAVY EQUIPMENT, CONSTRUCTION LIVE LOAD, OCCUPANT LIVE LOAD, ETC...

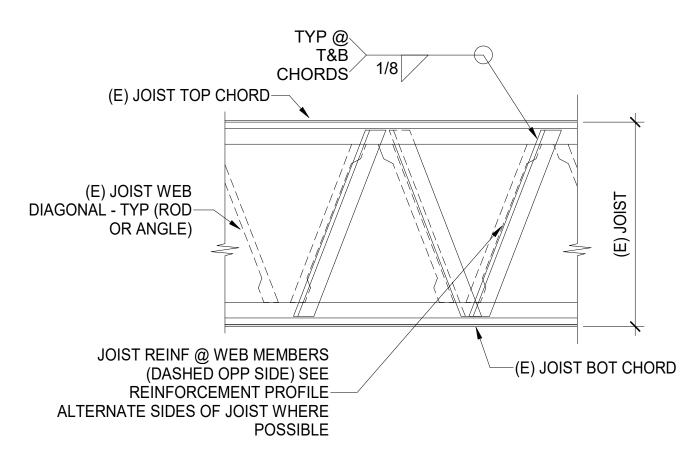
2. INSTALL REINFORCING



JOIST DESCRIPTION	END WEB REINFORCEMENT DIMENSION (MIN)	CHORD REINFORCEMENT DIMENSION (MIN)
R1	8'-0"	8'-0"
R2	8'-0"	9'-6"

A TYPICAL BAR JOIST REINFORCEMENT PROFILE

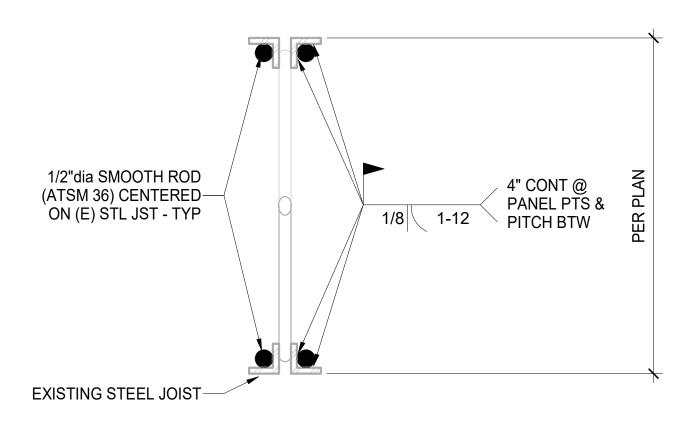
S2 \ N.T.S.



4. WELD ANGLES TOGETHER, BACK-TO-BACK, w/ 3/16" WELDS, 2" EVERY 12", TOP & BOTTOM.

B JOIST WEB REINFORCEMENT DETAIL

S2 N.T.S.



C JOIST CHORD REINFORCEMENT DETAIL

PLAN NOTES:

S2 N.T.S.

THREE ANGLE

STEEL LINTEL SCHEDULE								
FOR I	FOR LINTELS NOT SHOWN IN THE DOOR OR WINDOW SCHEDULE OR ON THE ARCHITECT'S DRAWINGS, USE THE ANGLE SIZE SHOWN IN THE TABLE BELOW.							
ODENING CIZE	BRICK VENEER	8" MASONRY WALL	10" MASONRY WALL	12" MASONRY WALL				
OPENING SIZE	ANGLE SIZE	ANGLE SIZE	ANGLE SIZE	ANGLE SIZE				
UP TO 1'-0"	N/A	N/A	N/A	N/A	ONE ANGL			
1'-1" TO 3'-4"	L 4"x4"x1/4"	L 3 1/2"x3 1/2"x1/4"	L 4"x3 1/2"x1/4" LLH	L 5"x3 1/2"x1/4" LLH				
3'-5" TO 4'-8"	L 4"x4"x1/4"	L 4"x3 1/2"x1/4" LLV	L 4"x4"x1/4"	L 5"x3 1/2"x1/4" LLH				
4'-9" TO 6'-8"	L 4"x4"x1/4"	L 6"x3 1/2"x5/16" LLV	L 4"x4"x5/16"	L 5"x5"x5/16"				
6'-9" TO 10'-0"	L 6"x4"x3/8" LLV	L 6"x3 1/2"x3/8" LLV	L 6"x4"x3/8" LLV	L 5"x5"x5/8"	TWO ANGLI			
10'-1" TO 12'-0"	L 7"x4"x3/8" LLV	L 6"x3 1/2"x1/2" LLV	L 6"x4"x3/4" LLV	L 6"x4"x7/8" LLV w/ PLATE *	4 1/2'			
NOTES . ALL ANGLES MU	JST HAVE 8" OF BEAF	RING AT EACH END.		* 10"x3/8" PLATE				
2. THIS SCHEDULE 3. ALL ANGLES TO		EFFECT OF FLOOR OR F	ROOF FRAMING LOADS.					

PARTIAL EXISTING ROOF FRAMING PLAN

SEE SHEET S1 FOR GENERAL NOTES AND TYPICAL DETAILS.

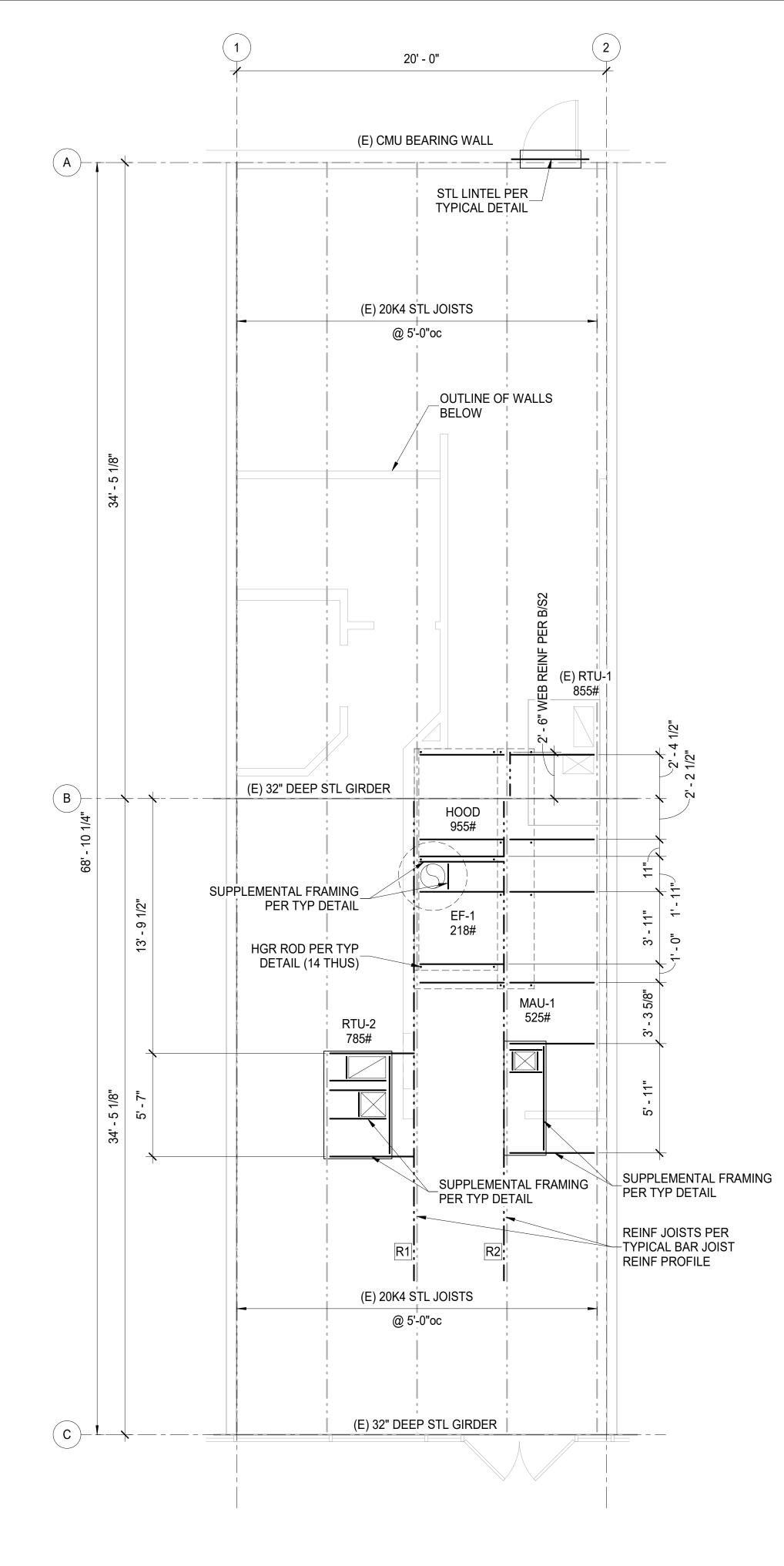
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO BEGINNING CONSTRUCTION.

REFERENCE MECHANICAL DRAWINGS FOR EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT.

4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SECTIONS, AND ELEVATIONS NOT

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

ALL NEW AND EXISTING MECHANICAL EQUIPMENT MOUNTED TO OR HUNG FROM EXISTING ROOF FRAMING STRUCTURE THAT HAS BEEN ACCOUNTED FOR IN STRUCTURAL CAPACITY ANALYSIS IS SHOWN ON FRAMING PLAN. GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER OF RECORD IMMEDIATELY IF EQUIPMENT EXISTS THAT IS NOT SHOWN ON PLAN.



CONSULTANTAS NOTED ON PLANS REVIEW

RELEASE FOR



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