aft

# Craft Putt - Lee's Summit

# **GENERAL NOTES**

GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS WORKING ON THIS CONSTRUCTION PROJECT SHALL MEET ALL APPLICABLE CODE REQUIREMENTS. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ANY AND ALL APPLICABLE CODES. REGULATIONS, DIRECTIVES AND LAWS. CONTRACTOR SHALL BE KNOWLEDGEABLE OF ALL CITY REGULATIONS AND CODE ISSUES AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT UPON DISCOVERY OF ANY DISCREPANCIES ON THE DOCUMENTS OR CONDITIONS OF THE PROJECT SITI

SUBSTANTIAL COMPLETION SHALL BE ESTABLISHED ON DELIVERY OF OCCUPANCY PERMIT FINAL COMPLETION SHALL BE DEEMED COMPLETED WHEN ALL PUNCH LIST ITEMS ARE COMPLETED AND APPROVED, ALL SUPPORT EQUIPMENT INSTALLED AND COMPLETE. OWNER WILL DETERMINE FINAL COMPLETION.

THE RESPONSIBILITIES CONCERNING THE PREPARATION AND REVIEW OF THE APPLICATION FOR PAYMENT AND PAYMENT SCHEDULE SHALL BE ADDRESSED IN THE AGREEMENTS BETWEEN THE OWNER, ARCHITECT, AND CONTRACTOR.

THE ARCHITECT WILL BE AVAILABLE TO THE OWNER AND CONTRACTOR DURING CONSTRUCTION. THE ARCHITECT WILL ASSIST THE OWNER AND/OR CONTRACTOR IN

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION PROCESS, MATERIAL VERIFICATION, AND WORKER SAFETY.

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR DETAILS AND ACCURACY. FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, AND FOR TECHNIQUES OF

ALL CUTTING AND PATCHING SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER. ANY EXISTING FINISHES DISTURBED OR DAMAGED BY THE CONTRACTOR OR TRADES UNDER CONTRACT DURING THE COURSE OF THE WORK SHALL BE REPAIRED TO MATCH

NO SUBSTITUTES OF SPECIFIED CONSTRUCTION ITEMS, EQUIPMENT AND FINISHES WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND ARCHITECT.

ALL BIDDING CONTRACTOR(S) SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS OF THE PROJECT SITE, AS THEY CURRENTLY EXIST, SO THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS PRIOR TO SUBMITTING ANY BIDS.

10. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH SCHEDULING INFORMATION PRIOR TO CONSTRUCTION, WHICH WILL BE UPDATED IF THERE ARE ANY CHANGES.

ALL REQUIRED COMMUNICATION SHALL BE THROUGH THE ARCHITECT AND OWNER.

12. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOBSITE. INFORMATION CONTAINED IN THESE DRAWINGS IS GENERAL AND NOT BASED ON EXISTING DOCUMENTS AND FIELD MEASUREMENTS. THE INFORMATION CONTAINED HEREIN MAY REQUIRE ADJUSTMENTS OR MODIFICATIONS TO CONFORM TO EXISTING CONDITIONS AND DESIGN INTENT OF DOCUMENTS. THE CONTRACTOR MUST NOTIFY ARCHITECT OF ANY CONFLICTS AND/OR VARIATIONS.

CONTRACTOR SHALL FURNISH ALL ITEMS SHOWN ON THE DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FLOOR FINISH MATERIALS TO ACCORDANCE WITH THE DRAWINGS.

15. UNLESS OTHERWISE STATED, CHANGES IN FLOORING MATERIAL SHALL OCCUR AT THE

16. ALL STUDS, CEILING FURRING AND FRAMING MEMBERS SHALL BE SO PLACED AS TO AVOID INTERFERENCE WITH LOCATIONS OF CASEWORK, RECESSED LIGHTING FIXTURES, PIPING, DUCT

17. DEMOLITION WORK SHALL INCLUDE ALL EXISTING CONSTRUCTION AS INDICATED AND AS REQUIRED TO COMPLETE NEW WORK AS INDICATED ON THE DOCUMENTS AND TO THE DESIGN NTENT OF DRAWINGS, WHETHER OR NOT DEMOLITION WORK IS SPECIFICALLY INDICATED.

18. ALL CONTRACTORS SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT; BOTH AS TO MATERIAL AND WORKMANSHIP, FOR A PERIOD OF TWELVE MONTHS AFTER DATE OF SUBSTANTIAL COMPLETION. IN ADDITION, ANY DAMAGE TO ADJACENT AREAS/SURFACES CAUSED BY FAULTY MATERIALS OR WORKMANSHIP SHALL ALSO BE REPAIRED TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.

19. CONTRACTOR SHALL PROVIDE ALL PATCHING, CLEANING, AND REPAIR WORK TO EXISTING SURFACES AS REQUIRED TO ACHIEVE SMOOTH, CLEAN WALL SURFACES FOR FINISH MATERIALS. REMOVE ALL DECALS, MARKS, PAINT, DIRT, AND DISCOLORATION FROM EXISTING MATERIALS TO

20. CONTRACTOR TO INSTALL ALL MATERIAL PER MANUFACTURERS' REQUIREMENTS, UL RATING REQUIREMENTS, SPECIFIC TRADE GUIDELINES, INDUSTRY STANDARDS, AND BUILDING CODES. ALL NEW FINISHES TO COMPLY WITH IBC CHAPTER 8.

PROVIDE SIGNAGE MEETING ADA REQUIREMENTS AND LOCATIONS DICTATED BY THE CITY AND LOCAL CODES. DESIGN, CONTENT, AND LOCATIONS SHALL BE PROVIDED TO THE OWNER AND ARCHITECT PRIOR TO INSTALLATION.

22. ALL SURFACES SCHEDULED FOR PAINT IN FOOD PREPARATION AND RESTROOM AREAS SHALL BE EPOXY TYPE PAINT FOR WASHABILITY.

23. NO COMBUSTIBLE MATERIALS WILL BE ALLOWED IN RETURN AIR PLENUMS.

INSTALL NEW OR MODIFY THE EXISTING FIRE SPRINKLER SYSTEM (IF EXISTING) AS REQUIRED to satisfy applicable codes for New Work and existing conditions combined.

25. THE CONTRACTOR MUST SUBMIT TO OWNER AN INSURANCE CERTIFICATE WITH MINIMUM COVERAGE OF \$1,000,000 IN GENERAL LIABILITY OR EQUAL. THIS CERTIFICATE MUST NAME THE OWNER AS ADDITIONAL INSURED.

ALL CHANGES, DEVIATIONS, MODIFICATIONS, ADDITIONS OR DELETIONS FROM THE CONTRACT OF CONSTRUCTION OF APPROVED ARCHITECTURAL PLANS SHALL BE APPROVED BY THE OWNER AND ARCHITECT. WHEN UNAPPROVED DEVIATIONS ARE MADE, THE GC SHALL BE HELD LIABLE FOR ANY ERRORS, OMISSIONS, DELAYS AND SUPPLEMENTARY COSTS INCURRED (INCLUDING ARCHITECTURAL & ENGINEERING PROFESSIONAL SERVICE FEES) THAT MAY BE REQUIRED AS A RESULT OF THESE DEVIATIONS.

27. ALL DIMENSIONS ARE FROM FACE OF FINISH TO FACE OF FINISH UNLESS OTHERWISE NOTED.

28. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL INTERIOR SURFACES AND EXTERIOR DEBRIS SPECIFIC TO CONSTRUCTION ACTIVITIES PRIOR TO OCCUPANCY OF THE SPACES BY THE OWNER. ADDITIONAL CLEANING FOLLOWING THE RECONCILIATION OF PUNCHLIST ITEMS SHALL ALSO BE INCLUDED. FINAL CLEANUP SHALL CONSIST OF THE **FOLLOWING:** 

REMOVE ALL CONSTRUCTION DEBRIS, UNUSED MATERIALS, TOOLS, ETC.

CLEAN, SANITIZE, AND STOCK ALL TOILET ROOMS CLEAN ALL COUNTERS AND TABLETOPS

CLEAN INTERIOR AND EXTERIOR SURFACES OF STOREFRONT GLASS AND FRAMES

CLEAN ALL FLOORS CLEAN ALL GLASS SURFACES

REPLACE ALL FILTER MEDIA IN HVAC SYSTEMS

# LOCATOR PLAN



# **SCOPE SUMMARY**

Interior renovation of an existing space (T.I.). Scope includes demolition of existing conditions and installation of new partitions, doors, and finishes. Contractor to coordinate IT/AV/security installation in the field with Tenant

# **CODE SUMMARY**

THE PLANS SUBMITTED HAVE BEEN DESIGNED TO

MEET THE CODES AS LISTED BELOW:

2018 International Building Code

2018 International Existing Building Code

2018 International Plumbing Code

2018 International Energy Conservation Code

2018 International Mechanical Code

2018 International Fuel Gas Code

2018 International Fire Code

2017 National Electrical Code ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities GOLF AREAS SHALL BE FULLY IN COMPLIANCE WITH 2009 ICC A117.1. CHAPTER 11. SECTIONS 1107 MINIATURE GOLF **FACILITIES** 

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION NEW USE = ASSEMBLY A2

FORMER USE (FOREVER 21) = MERCANTILE USE

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS (TABLE 503) THIS SCOPE OF WORK DOES NOT INCREASE THE AREA OF THE EXISTING BUILDING/TENANT SPACE.

TENANT RENOVATION AREA = 11,295 SF

**CHAPTER 6 TYPES OF CONSTRUCTION CONSTRUCTION TYPE II-B FULLY SPRINKLED** 

**CHAPTER 9 FIRE PROTECTION SYSTEMS** FIRE EXTINGUISHERS PROVIDED IN ACCORDANCE WITH INTERNATIONAL FIRE CODE: (EXTINGUISHERS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR) NFPA 10

CHAPTER 10 MEANS OF EGRESS

THE EXISTING BUILDING MEETS THE REQUIREMENTS FOR MEANS OF EGRESS.

OCCUPANT LOAD: REFER TO SHEET A001 **REQUIRED: 2 MEANS OF EGRESS** PROVIDED: 2 MEANS OF EGRESS COMMON PATH OF TRAVEL IS 73'<75' EXIT TRAVEL DISTANCE IS 181'<250'

SMOKE DETECTORS TO BE PROVIDED.

CHAPTER II ACCESSIBILITY

THE EXISTING BUILDING MEETS THE REQUIREMENTS FOR ACCESSIBLE ENTRIES. THE EXISTING PARKING SPACES MEET THE REOUIREMENTS FOR ACCESSIBLE PARKING.

CHAPTER 29 PLUMBING SYSTEMS

THIS SCOPE OF WORK DOES NOT INCREASE THE AREA OF THE EXISTING BUILDING AND MEETS THE REQUIREMENTS FOR PLUMBING SYSTEMS. REF TO A001 FOR FIXTURE COUNTS.

# PROJECT TEAM

**TENANT: Craft Putt** 

Summit Fair 840-M NW BLUE PKWY, SUITE M LEE'S SUMMIT. MO 64086 785.817.6699 contact: AJ Chinn

**FSC MEP Engineers** 

9225 Indian Creek Pkwy #300, Overland Park, KS 66210 913.669.0819 Contact: Logan Unrein

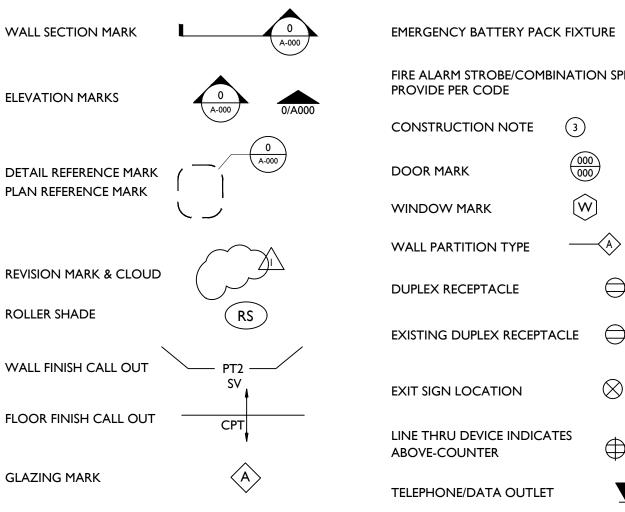
**ARCHITECTURAL:** 

clockwork 423 Delaware Street, Suite 102 Kansas City, MO 64105 816.548.7094 contact: Daniel Umscheid

**FOOD SERVICE:** 

Lori Foerster TriMark Hockenbergs 14603 W 112th ST. Lenexa, KS 66215 p: 913.998.7576

# DRAWING SYMBOLS



9'-6" ACT-2

100'-0" T.O.STEEL

CLASSROOM 100

**CEILING INFO** 

**ROOM TITLE** 

**ELEVATION DATUM** 

FIRE ALARM STROBE/COMBINATION SPEAKER, PROVIDE PER CODE CONSTRUCTION NOTE WINDOW MARK WALL PARTITION TYPE **DUPLEX RECEPTACLE** EXISTING DUPLEX RECEPTACLE **EXIT SIGN LOCATION** LINE THRU DEVICE INDICATES ABOVE-COUNTER TELEPHONE/DATA OUTLET **EXISTING PARTITION** 

**NEW PARTITION** 

# **SHEET INDEX**

**ARCHITECTURAL:** COVER SHEET, INDEX CODE PLAN A002 PARTITION TYPES

DEMOLITION PLAN DEMOLITION REFLECTED CEILING PLAN A100 FLOOR PLAN

ENLARGED FLOOR PLAN AIOI REFLECTED CEILING PLAN

A151 **CEILING DETAILS ROOF PLAN** A200 **EXTERIOR ELEVATIONS** A300

A400 INTERIOR ELEVATIONS A401 **INTERIOR ELEVATIONS** A500 **INTERIOR DETAILS INTERIOR DETAILS** A501 A600 FINISH PLAN A601 FURNITURE PLAN

A700 SCHEDULES & ACCESSIBILITY

MEP000 MEP LEGENDS AND SYMBOLS MEP001 MEP SPECIFICATIONS MEP SPECIFICATIONS MEP NEW WORK ROOF PLAN MECHANICAL DEMOLITION PLAN

MECHANICAL NEW WORK PLAN MECHANICAL DETAILS M500 M600 MECHANICAL SCHEDULES **ELECTRICAL DEMOLITION PLAN** LIGHTING DEMOLITION PLAN DELI00

ELECTRICAL NEW WORK PLAN LIGHTING NEW WORK PLAN **ELECTRICAL SCHEDULES** 

**ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM** DPI00 PLUMBING DEMOLITION PLAN

PLUMBING WASTE & VENT NEW WORK PLAN

PLUMBING DOMESTIC WATER AND GAS NEW WORK PLAN PLUMBING DETAILS P600 PLUMBING SCHEDULES

PLUMBING SCHEDULES PLUMBING DOMESTIC WATER PIPING ISOMETRIC P701 PLUMBING WASTE AND VENT PIPING ISOMETRIC PLUMBING NATURAL GAS PIPING ISOMETRIC

**FPI00** FIRE PROTECTION NEW WORK PLAN

FIRE PROTECTION DETAILS

**FOOD SERVICE:** 

FOOD SERVICE EQUIPMENT PLAN FOOD SERVICE PLUMBING IN-SLAB ROUGH-IN PLAN

FOOD SERVICE ELECTRICAL ROUGH-IN PLAN FOOD SERVICE SPECIAL CONDITIONS PLAN

-END OF INDEX-

24.02 Craft Putt Lee's Summit

**COVER SHEET** CODE INFO

SUITE

Summit Fair 840-M NW BLUE PKWY, LEE'S SUMMIT, MO 64086

issue 07.29.2024 PERMIT SET REV 01 08.13.2024

24.02 Craft Putt Lee's Summit

CODE PLAN

PREP/SERVICE BAR (1/200) 449 / 200 = 3KITCHEN/PREP (1/200) 1006 / 200 = 6

12 OCCUPANTS

**STORAGE (1/300)** (WALK IN COOLER) 285 / 300 = 1

**STORAGE (1/300)** 53 / 300 = I

STORAGE (1/300) 138 / 300 = 1

MERCANTILE (1/60) (RETAIL SHOP) 386 / 60 = 7

MINI GOLF AREA A3 5 MAX OCCUPANTS PER HOLE AT ANY TIME. 20 HOLES = 100 OCCUPANTS

A3 ASSEMBLY (1/15) 338 / 15 = 23

PATIO DINING AREA (1/15) 491 SF / 15 = 33

447 TOTAL OCCUPANTS (INCLUDING SEASONAL OUTDOOR PATIO) 224 FEMALE / 224 MALE

 THE OUTDOOR PATIO SPACE HAS BEEN INCLUDED. WITHIN THESE CALCULATIONS

= I PER 75 4 (URINALS NOT TO EXCEED 4 67% OF REQUIRED WC) = 1 PER 75 FEMALE LAVATORIES REQUIRED PROVIDED MALE = I PER 200

SERVICE SINK IS PROVIDED (EXISTING TO REMAIN)

FREE WATER IS PROVIDED IN LIEU OF DRINKING FOUNTAIN

**GAMING SPACE** 

A2 ASSEMBLY (1/15)

DINING **402 OCCUPANTS** 1452 / 15 = 97

A2 ASSEMBLY (1/15) DINING 1399 / 15 = 94

A2 ASSEMBLY (1/15) DINING 494 / 15 = 33

A2 ASSEMBLY (1/15) DINING / LOUNGE 712 / 15 = 48

33 OCCUPANTS

RESTROOM FIXTURE COUNTS

CALCULATIONS PER 2018 IBC TABLE 2902.1 ARE

SHOWN BELOW.

WATER CLOSETS REQUIRED PROVIDED

FEMALE = I PER 200

NOTE:

CODE.

NOTE:

NOTE:

NOTE:

(12.7 mm).

and alarm test.

manual pull.

Provide 2 2A I OBC fire extinguishers.

NOTE:

**Clean Indoor Air Ordinance:** 

Development Services at (816) 969-1200.

shop drawings for the fire alarm system.

The City of Lee's Summit has an ordinance which prohibits smoking in virtually all enclosed areas of public places and places of employment. Per the ordinance,

a "No Smoking" sign or the international "No Smoking" symbol (consisting of a

clearly and conspicuously posted at every entrance where smoking is prohibited. The person who owns, manages, operates or otherwise controls a public place or place of employment is responsible for compliance with the Clean Indoor Air

burning cigarette enclosed in a red circle with a red bar across it) shall be

Act. Questions regarding the Clean Indoor Air Act may be directed to

2018 IFC 1004.3- Posting of occupant load. Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted

in a conspicuous place, near the main exit or exit access doorway from the

Post occupant load at 113 in the interior and 19 in the patio area.

room or space. Posted signs shall be of an approved legible permanent design and shall be maintained by the owner or authorized agent. (Action Required)

2018 IFC 907.1.1- Construction documents. Construction documents for fire alarm systems shall be submitted for review and approval prior to system installation. Construction documents shall include, but not be limited to, all of the following: I. .A floor plan which indicates the use of all rooms. 2. Locations

of alarm-initiating and notification appliances. 3. Alarm control and trouble

signaling equipment. 4. Annunciation. 5. Power connection. 6. Battery

calculations. 7. Conductor type and sizes. 8. Voltage drop calculations. 9. Manufacturers, model numbers and listing information for equipment, devices and materials. 10. Details of ceiling height and construction. 11. The interface of

fire safety control functions. (Action required) Provide three sets of PE stamped

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

THIS INFORMATION SHALL BE PROVIDED AS A DEFERRED SUBMITTAL

2018 IFC 505.1- Address numbers. New and existing buildings shall have

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

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 48 hours before any required acceptance

test. (Informational Purposes) Call (816)969-1300 to schedule a hood trip test

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 Class K rated

portable extinguisher. (Verified At Inspection) Mount K-Class extinguisher by

2018 IFC 906.5- Conspicuous location. Portable fire extinguishers shall be located in conspicuous locations where they will be readily accessible and immediately available for use. These locations shall be along normal paths of

travel, unless the fire code official determines that the hazard posed indicates

the need for placement away from normal paths of travel. (Action Required)

GC SHALL COORD FULL / SEMI RECESSED FEC'S WITH ARCH TO SATISFY

2018 IFC 904.11.5- Portable fire extinguishers for commercial cooking

The fire code official shall be notified before any required acceptance testing.

2018 IFC 1010.1.10 Panic and fire exit hardware. Doors serving a Group H occupancy and doors serving rooms or spaces with an occupant load of 50 or more in a Group A or E occupancy shall not be provided with a latch or lock unless it is a panic hardware or fire exit hardware. (Action Required) Provide door schedule with panic hardware on exit doors. PANIC HARDWARE IS PRESENT ON EXISTING-TO-REMAIN EGRESS DOORS AND HAS BEEN VERIFIED.

2018 IBC 1606.2 Design dead load. For purposes of design, the actual weights of materials of construction and fixed service equipment shall be used. In the absence of definite information, values used shall be subject to the approval of the building official.

REFER TO MEP SHEETS FOR WEIGHTS AND ROOF PLAN FOR PRE-STRUCTURED AND DESIGNATED EQUIPMENT ZONE.

For the Health Department review contact Deb Sees with the Jackson County Public Works Department, Environmental Services Division, at (816) 847-7070. Health Department approval is required prior to receiving any type of building permit from the City of Lee's Summit.

For the Health Department inspection contact Deb Sees with the Jackson County Public Works Department, Environmental Health Division at (816) 847-7070. Health Department approval is required prior to receiving any type of Occupancy from the City of Lee's Summit.

CLOCKWORK SHALL SUBMIT DRAWINGS TO JACKSON COUNTY PUBLIC WORKS DEPARTMENT.

EXISTING RATED—

TENANT DEMISING

PENETRATIONS TO

MAINTAIN RATING.

WALL. ALL NEW

EXIT 2: 40" EGRESS

TRAVEL DISTANC

53 / 300 = I

INCLUDED

IN OC r⊏

A3 ASSEMBLY (1/15

GAMING SPACE

TRAVEL DISTANCE

MINI GOLF AREA A3

MAX OCCUPANTS PER HOLE

20 HOLES = 100 OCCUPANTS

OCCUPANT LOAD SIGN

SHALL BE PROVIDED BY

GC TO COORDINATE.

338 / 15 = 23

WIDTH = 266 OCC

STORAGE (1/300)

285 / 300 = I

WALK IN COOLER

TRAVEL DISTANCE

A2 ASSEMBLY (I/I

SEPARATION EXCEEDS 1 / 3

FOR SPRINKLERED SPACES

PREP/SERVICE BAR

449 / 200 = 3

(1/200)

TRAVEL DISTANCE

DINING 494 / 15 = 33

A2 ASSEMBLY (1/1

1399 / 15 = 94

KITCHEN/PREP (1/200)

1006 / 200 = 6

138 / 300 = 1

A2 ASSEMBLY (1/15

712 / 15 = 48

DINING / LOUNGE

RAVEL DISTANCE

A2 ASSEMBLY (I/I5

MERCANTILE (1/60

(RETAIL SHOP) 386 / 60 = 7

EXIT I

EXIT I: 84" EGRESS

WIDTH = 480 OCC

1452 / 15 = 97

DINING

EXIT 3

NO LOCK ON GAT

EXIT 4

NO LOCK

ON GATE.

NOT REQ.

EXIT

DINING AREA (I.

491 SF / 15 = 33

OCCUPANT LOAD SIGN

SHALL BE PROVIDED BY

SIGANGE VENDOR, PER

COORDINATE.

NO LOCK

ON GATE

EXIT 5

# clockwork

423 Delaware St Ste 102 Kansas City MO 64105 www.clockwork-ad.com



# aft

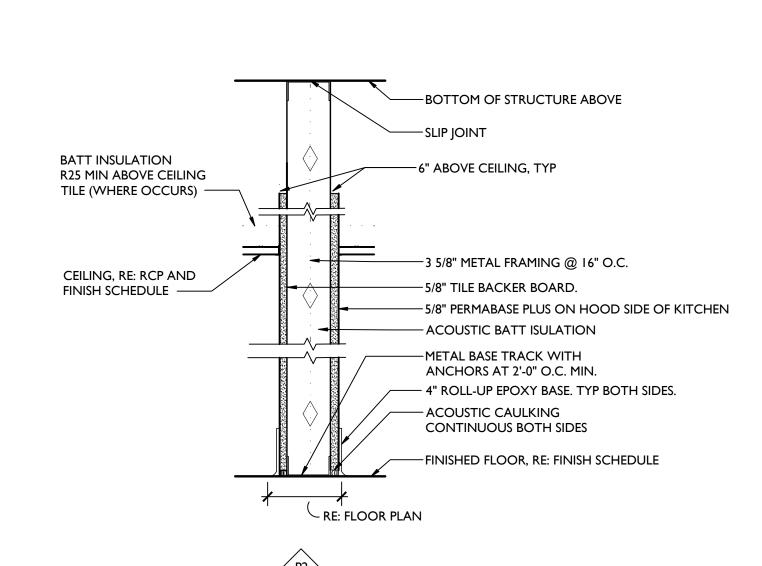
07.29.2024 PERMIT SET REV 01 08.13.2024

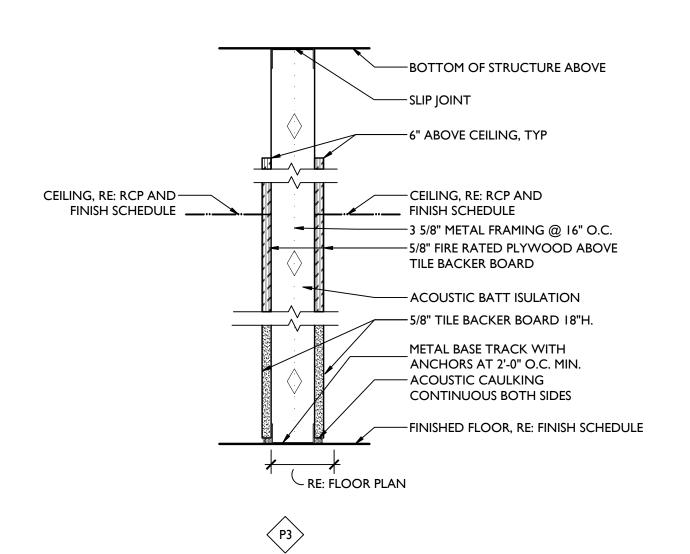
24.02 Craft Putt Lee's Summit

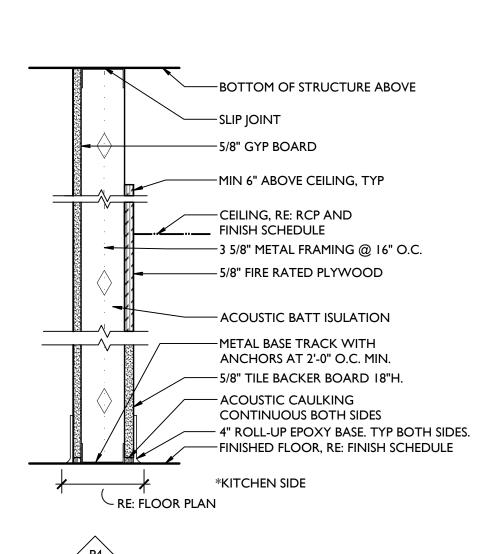
PARTITION TYPES

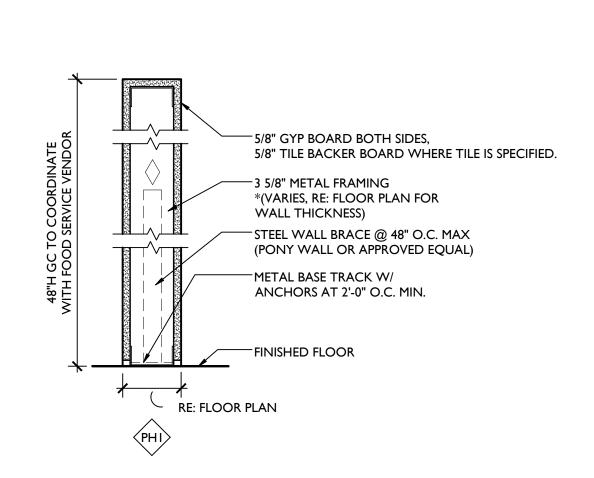
#### WALL TYPE GENERAL NOTES

- I. PROVIDE 3/4" FIRE-TREATED PLYWOOD TO DECK WHERE CALLED OUT IN PLAN. 2. FRAMING TO BE MTL. STUD FARMING.
- 3. GYP BD TO BE HELD OFF FINISH FLOOR 1/2" MIN, TYPICAL.
- 4. ALL WALLS IN BOH SHALL RECEIVE 1/2" TILE BACKERBOARD AT 18"-24" AFF AND 1/2" FIRE-TREATED PLYWOOD ABOVE BACKERBOARD.
- 5. METAL CORNER BEAD TO BE USED ON ALL OUTSIDE CORNERS OR TOP OF PARTIAL HEIGHT WALLS WHERE GYP BD WRAPS.
- 6. ALL BLOCKING SHALL SPAN FULLY BETWEEN BOTH ADJACENT STUDS AT A MINIMUM.
- 7. PROVIDE LEVEL 5 WALL FINISH FOR ALL WALLS SCHEDULED FOR EGGSHELL OR HIGHER SHEEN PAINT, LEVEL 5 WHERE SEMI-GLOSS OR HIGHER AND WALLCOVERING.
- 8. CONTRACTOR TO FIELD VERIFY CONDITIONS WHERE BARE FRAMING EXISTS AND PROVIDE NEW 5/8" GYPSUM BOARD OVER ALL EXISTING BARE FRAMING (TYP).
- 9. PROVIDE ACOUSTIC BATT INSULATION ABOVE ALL ROOMS WITH ACOUSTICAL CEILING TILE (TYP). 10. PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN ALL WET LOCATIONS, I.E. RESTROOMS,
- KITCHEN AND BOH.
- II. USE TCNA APPROVED BACKER BOARD AT ALL WALLS WITH TILE
- 12. USE FIRE-TREATED PLYWOOD (OR APPROVED ALT.) SUBSTRATE AT ALL WALLS AND CEILINGS
- WITH WOOD VENEERS PANELS









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-BOTTOM OF STRUCTURE

-5/8" GYP BOARD BOTH SIDES,

— ACOUSTIC BATT INSULATION

— 3 5/8" METAL STUDS @ 16" O.C.

METAL BASE TRACK WITH

-BASE, RE: FINISH SCHEDULE

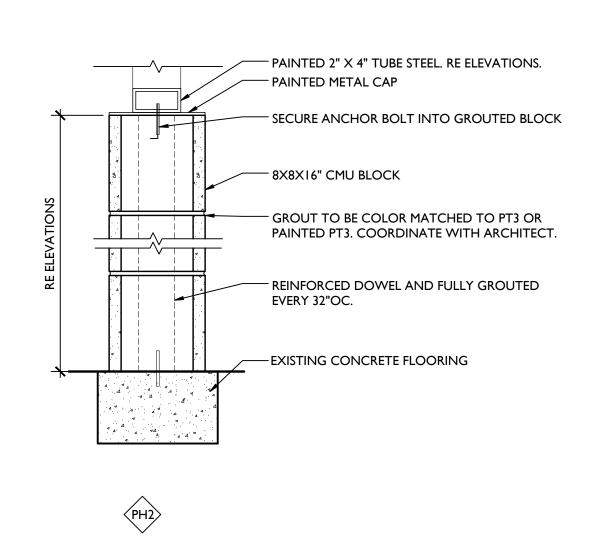
-FINISHED FLOOR,

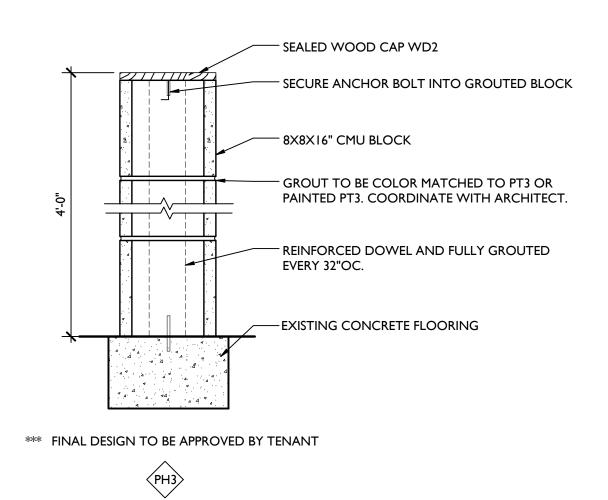
**RE: FINISH SCHEDULE** 

ANCHORS AT 2'-0" O.C. MIN.

TILE IS SPECIFIED.

5/8" TILE BACKER BOARD WHERE





STEEL WALL BRACE @ 48" O.C. MAX (PONY WALL OR APPROVED EQUAL) - WOOD PLANKS (WD2) -METAL BASE TRACK WITH ANCHORS AT 2'-0" O.C. MIN. \*\*\* FINAL DESIGN TO BE APPROVED BY TENANT

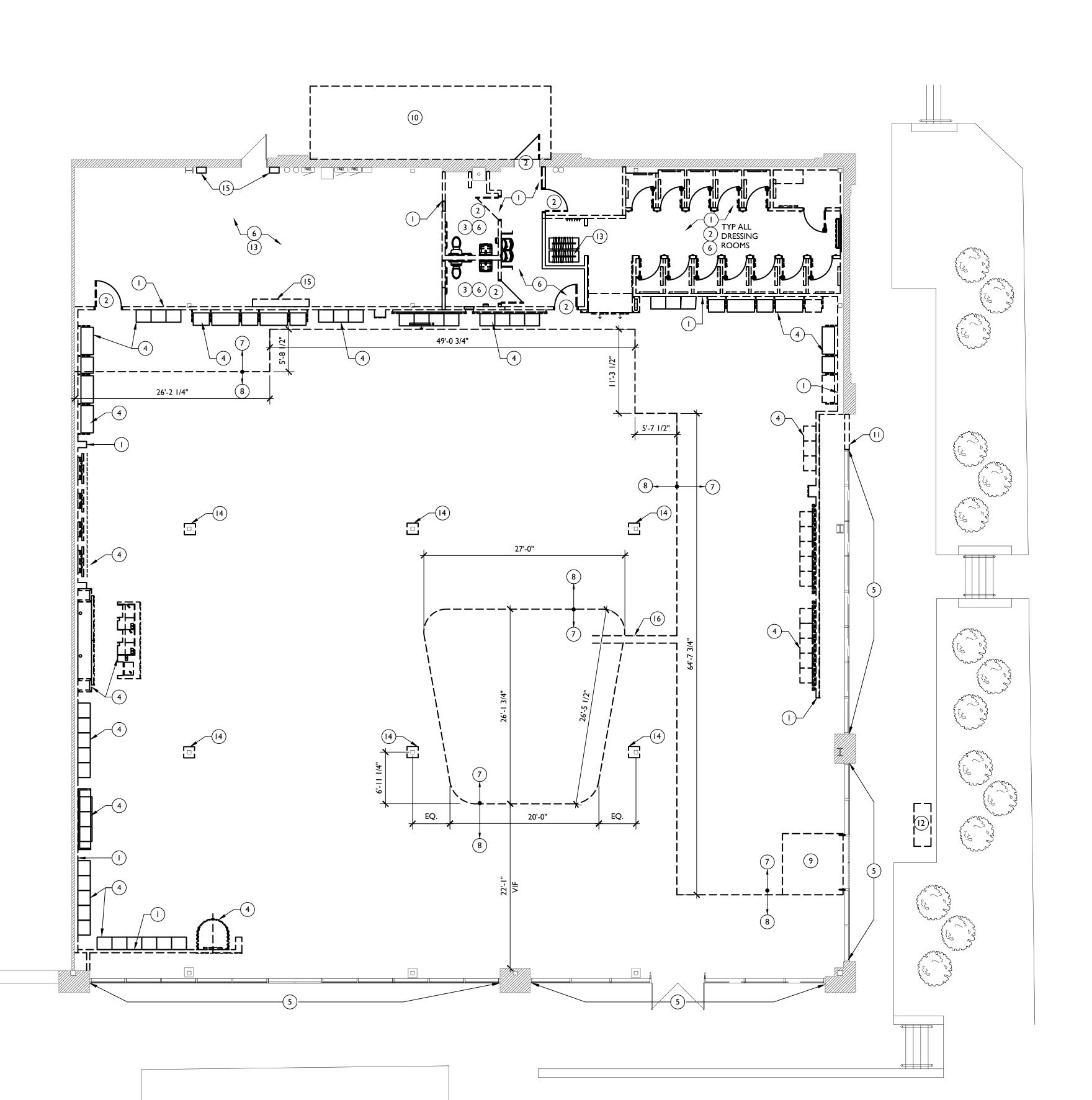
rev issue date

| PERMIT SET | 07.29.2024 |
| REV 01 | 08.13.2024 |

24.02 Craft Putt Lee's Summit

AD100

DEMOLITION PLAN



DEMOLITION PLAN GENERAL NOTES:

I. ITEMS TO BE REMOVED ARE SHOWN WITH A DASHED (HIDDEN) LINE.

 ALL DIMENSIONS ARE + / DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE ON THE JOB SITE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER. NO ON SITE SALE OR BURNING OF REMOVED ITEMS IS PERMITTED.

4. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF CONSTRUCTION DRAWINGS. DO NOT REMOVE ANY ITEMS WITHOUT VERIFYING AND COORDINATING WITH ALL GENERAL TRADES AS TO HOW THEY RELATE TO THE OVERALL PROJECT. COORD ALL SITE WORK W/LANDLORD AS REQ'D.

5. THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT, INSULATION,
WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF

6. GENERAL CONTRACTOR AND SUB-CONTRATORS SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL FIELD CONDITIONS AS CALLED FOR OR REQUIRED BY THE NEW WORK.

NEW WORK.

7. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION BARRICADES AS REQUIRED FOR DEMOLITION AND NEW WORK.

8. EXISTING EXIT SIGNAGE, EGRESS LIGHTING, SECURITY CAMERAS, SWITCHES, OUTLETS, ETC. ARE NOT SHOWN FOR CLARITY AND ARE TO BE REMOVED UNLESS NOTED OTHERWISE. COORD. W/ MEP DEMO AND NEW WORK PLANS.
9. CONTRACTOR TO PROTECT ALL EXISTING FINISHES, CEILINGS AND OTHER SURFACES

SCHEDULED TO REMAIN THAT GETS DAMAGED DUE TO CONTRACTOR WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

10. CONTRACTOR TO ENSURE PROJECT SITE IS SECURE AFTER BUSINESS HOURS. CONFIRM

SCHEDULED TO REMAIN DURING ALL PHASES OF CONSTRUCTION. ANY SURFACES

HOURS WITH LANDLORD AND TENANT.

11. CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE

COORDINATED WITH LANDLORD AND TENANT.

12. REMOVE ALL EXIT SIGNS THROUGHOUT. SIGNS TO BE REPLACES IN-KIND WITH NEW SPEC.

13. REMOVE ALL SIGNAGE THROUGHOUT, INCLUDING EXTERIOR SIGNAGE AND ASSOCIATED

ELEC. NOT REUSED IN NEW WORK. COORD. W/ TENANT.

14. REMOVE ALL ABANDONED ELECTRICAL AND BLANK COVER PLATES THROUGHOUT.

14. REMOVE ALL ABANDONED ELECTRICAL AND BLANK COVER PLATES THROUGHOUT.
PATCH AND REPAIR WALL FOR NEW FINISH.
15. REMOVE AND DISPOSE OF ALL BUILT-IN FURNITURE AND CASEWORK (TABLES,

CASEWORK, WALL PANELS, WAINSCOTING, ARTWORK, SHELVING ETC.)

16. FLOOR SHALL BE LEVELED AFTER REMOVAL OF FLOORING MATERIAL AND PREPPED FOR

NEW FINISH. SEE PLAN FOR EXTENTS.

17. PATCH AND FILL ALL HOLES AND VOIDS IN FLOOR SLAB.

 PATCH AND FILE ALL HOLES AND VOIDS IN FLOOR SLAB.
 REMOVE ALL ROOM AND OCCUPANCY SIGNAGE LEFT BY PREVIOUS TENANT. PATCH AND REPAIR WALL FOR NEW FINISH.

19. DEMO AND REMOVE ALL EXISTING WALL FINISHES (INCLUDING VINYL DECALS/WALLCOVERING). SKIMCOAT OR PREP WALLS TO RECEIVE NEW PAINTED WALL FINISH

20. REMOVE ALL WALL FINISHES THROUGHOUT.

DEMOLITION PLAN KEYED NOTES:

REMOVE EXISTING PARTITION AS REQUIRED BY THE NEW WORK. TERMINATE AND CAP OFF ANY EXISTING UTILITIES NOT REUSED BY NEW WORK

2 REMOVE AND DISPOSE OF EXISTING DOORS, FRAME, ASSOCIATED HARDWARE.

(3) REMOVE VANITY, PLUMBING FIXTURES AND ASSOCIATED FIXTURES & FINISHES.

REMOVE AND DISPOSE OF ALL EXISTING CASEWORK. CAP OFF/ TERMINATE ANY EXISTING ELEC.

5) REMOVE AND DISPOSE OF ALL EXISTING WINDOW FILM AND ADHESIVE.

(6) REMOVE ALL EXISTING FLOORING, BASE AND FRP. PREP FOR NEW WORK.

7 REMOVE EXISTING TILE/WOOD FLOORING. KEEP NON DAMAGED TILES FOR REUSE IF NEEDED.

8 MAINTAIN AND PROTECT EXISTING FLOORING.

9 REMOVE AND DISPOSE OF WALK OFF INSERT

PREP SLAB AS REQUIRED FOR FUTURE COOLER.

DEMO EXISTING PORTION OF STOREFRONT FOR NEW DOOR LOCATION.

(12) REMOVE EXTERIOR BENCH AND RETURN TO OWNER.

(13) REMOVE AND DISPOSE OF RETAIL RACKS AND STORAGE UNITS.

(14) REMOVE COLUMN WRAPS, MIRRORS AND BASE.

(15) RELOCATION OF AV/SECURITY, FIRE SYSTEM AND DOOR ALARM WILL BE REQUIRED.

DEMO/SAW-CUT CONCRETE/TILE FOR NEW PLUMBING CHASE. FINAL LOCATION AND LENGTH TO BE COORDINATED WITH ARCHITECT, MEP AND F&B.

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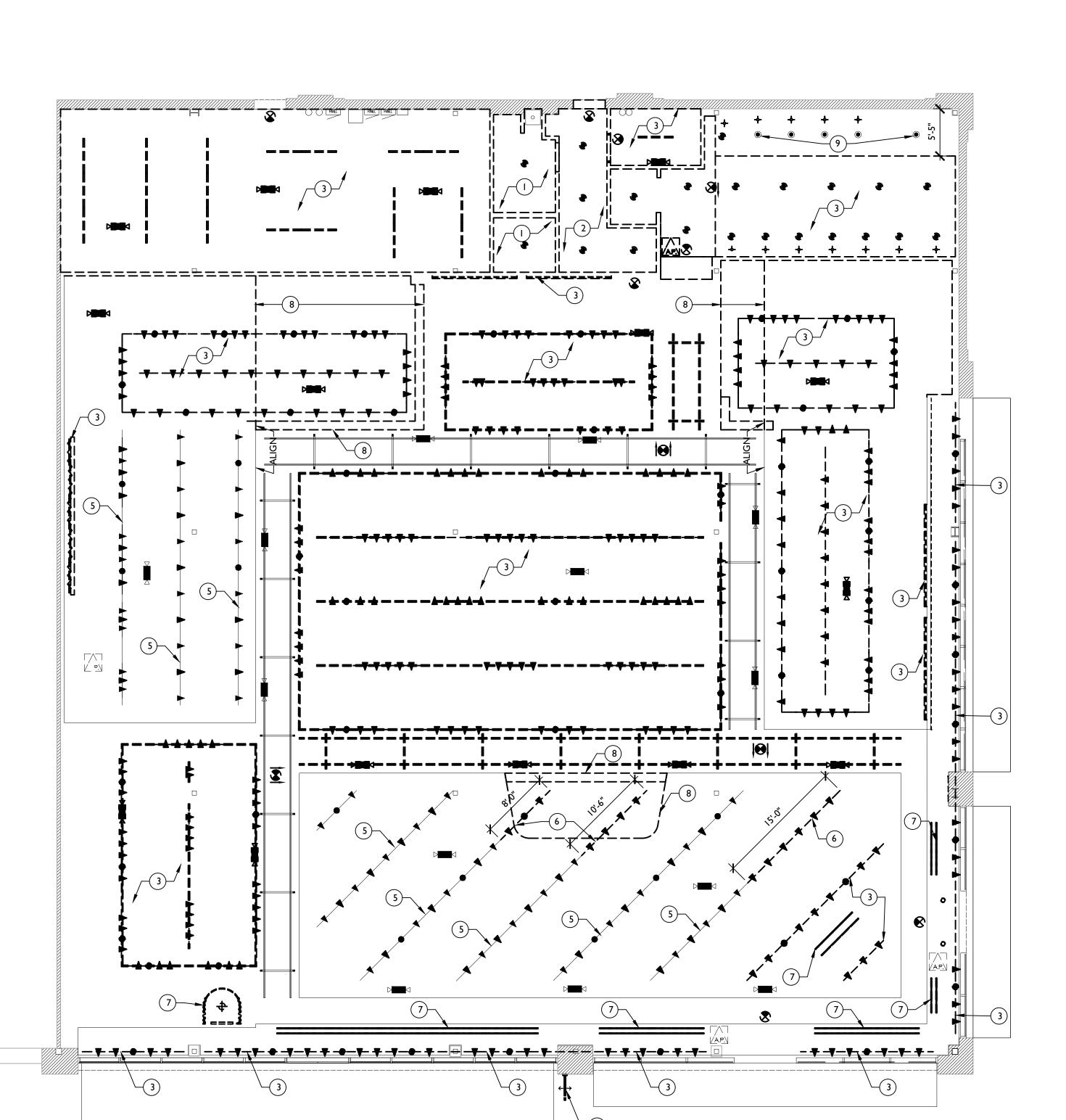


# Craft Putt - Lee's Summit

24.02 Craft Putt Lee's Summit

AD150

DEMOLITION REFLECTED CEILING PLAN



DEMOLITION REFLECTED CEILING PLAN GENERAL NOTES:

I. ITEMS TO BE REMOVED ARE SHOWN WITH A DASHED (HIDDEN) LINE.

 ALL DIMENSIONS ARE + / DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE ON THE JOB SITE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER.

NO ON SITE SALE OR BÜRNING OF REMOVED ITEMS IS PERMITTED.

4. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF CONSTRUCTION DRAWINGS. DO NOT REMOVE ANY ITEMS WITHOUT VERIFYING AND COORDINATING WITH ALL GENERAL TRADES AS TO HOW THEY RELATE TO THE OVERALL PROJECT. COORD ALL SITE WORK W/LANDLORD AS REQ'D.

5. THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT, INSULATION, WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF ITEMS TO REMAIN.

6. GENERAL CONTRACTOR AND SUB-CONTRATORS SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL FIELD CONDITIONS AS CALLED FOR OR REQUIRED BY THE

7. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION BARRICADES AS REQUIRED FOR DEMOLITION AND NEW WORK.

8. EXISTING EXIT SIGNAGE, EGRESS LIGHTING, SECURITY CAMERAS, SWITCHES, OUTLETS, ETC. ARE NOT SHOWN FOR CLARITY AND ARE TO BE REMOVED UNLESS NOTED OTHERWISE. COORD. W/ MEP DEMO AND NEW WORK PLANS.

 CONTRACTOR TO PROTECT ALL EXISTING FINISHES, CEILINGS AND OTHER SURFACES SCHEDULED TO REMAIN DURING ALL PHASES OF CONSTRUCTION. ANY SURFACES SCHEDULED TO REMAIN THAT GETS DAMAGED DUE TO CONTRACTOR WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

10. CONTRACTOR TO ENSURE PROJECT SITE IS SECURE AFTER BUSINESS HOURS. CONFIRM HOURS WITH LANDLORD AND TENANT.

11. CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE COORDINATED WITH LANDLORD AND TENANT.

12. REMOVE ALL EXIT SIGNS THROUGHOUT. SIGNS TO BE REPLACES IN-KIND WITH NEW SPEC.

13. PATCH CEILINGS AND WALLS WHERE LIGHTING AND/OR RETAIL FIXTURES ARE DEMO'D

DEMOLITION REFLECTED CEILING PLAN KEYED NOTES:

REMOVE ALL EXISTING CEILING GRID, ACT AND LIGHTING FIXTURES.

2 REMOVE ALL EXISTING GYP CEILING AND LIGHTING FIXTURES.

(3) REMOVE AND DISPOSE OF ALL LIGHT FIXTURES.

(4) REMOVE AND DISPOSE EXISTING EXTERIOR HANGING SIGN.

REMOVE AND DISPOSE OF 50% OF EXISTING LIGHT HEADS ON TRACK. TRACK TO REMAIN.

REMOVE ONLY INDICATED PORTION OF TRACK LIGHT. GC TO ENSURE THIS WILL NOT EFFECT REMAINING TRACK AND FUNCTION OF EXISTING FIXTURES.

7) REMOVE RETAIL CEILING TRACKS AND RODS.

8 REMOVE ONLY INDICATED PORTION OF SOFFIT. RE NEW WORK AS REFERENCE.

9 MAINTAIN FIXTURES AND CEILING IN THIS LOCATION.

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> 4 - 3 CHRISTIAN

J. ARNOLD

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# FLOOR PLAN GENERAL NOTES:

- I. ALL DIMENSIONS TO EXISTING ITEMS ARE + / -
- 2. DIMENSIONS FOR INTERIOR PARTITIONS ARE TO OUTSIDE FACE OF WALL FINISH.
- 3. ALL PARTITIONS TO BE TYPE (P) UNLESS NOTED OTHERWISE. 4. CONTRACTOR TO COORDINATE ALL MEP REQUIREMENTS.
- 5. CONTRACTOR TO COORDINATE IT/AV/SECURITY SYSTEM WITH TENANTS VENDOR. PROVIDE CONDUIT AND PULL STRING FOR IT/AV/SECURITY WORK. COORDINATE WITH
- ELECTRICAL & IT/AV/SECURITY. 6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL BLOCKING AS
- REQUIRED FOR CASEWORK, LIGHT FIXTURES, ACCESSORIES, ETC. 7. CONTRACTOR TO COORDINATE TENANT PROVIDED LCD & MOUNT LOCATIONS.
- PROVIDE POWER, CABLE AND BLOCKING AS REQUIRED. 8. ALL STOREFRONT AND DOOR DIMENSIONS ARE TO FRAME EXTENTS. CONTRACTOR TO COORDINATE AND VERIFY ROUGH OPENINGS PRIOR TO ORDERING FRAMES AND DOORS.
- 9. CONTRACTOR SHALL COORDINATE ALL CORE DRILL LOCATIONS WITH GAMES, ELECTRICAL AND I.T. LAYOUTS. PROVIDE FLUSH POKE THROUGH DEVICE.
- 10. ALL CARD READERS, SWITCHES, CONTROLS, ETC TO COMPLY WITH A.B.A.A.S. (ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD) REQUIREMENTS FOR MOUNTING HEIGHTS.
- II. CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE DONE AFTER BUSINESS HOURS. COORDINATE WITH LANDLORD AND TENANT. 12. ALL CUSTOM ITEMS TO BE REVIEWED BY TENANT / ARCHITECT VIA SHOP DRAWINGS
- PRIOR TO FABRICATION. 13. PROVIDE POWER & DATA FOR ALL POS LOCATIONS - COORD FINAL LOCATIONS WITH
- 14. ALL DECORATIVE WOOD ELEMENTS SHALL BE CONSTRUCTED OF MATERIALS WITH A
- CLASS C FLAME SPREAD INDEX OR BETTER. 15. GC & FSEQ TO COORDINATE FINAL ROUTING OF BEER & SODA LINES WITH ARCH & MEP
- PRIOR TO INSTALLATION. 16. COORD FINAL ROUTING OF BEER, SODA LINES WITH ARCH AND MEP PRIOR TO
- INSTALLATION. 17. WHERE EXPOSED IN GUEST-FACING AREAS - ALL WIRING SHALL BE RUN IN CONDUIT
- PAINTED TO MATCH ADJACENT SURFACE COLOR

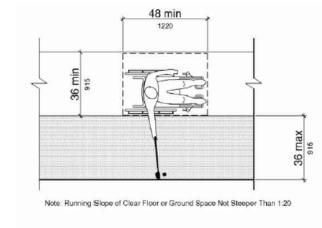
#### FLOOR PLAN KEY NOTES:

- EXISTING DOOR TO REMAIN AND TO BE PINED CLOSED. DOORS ARE NOT TO BE
- 2 NEW STOREFRONT WINDOWS AND DOOR SYSTEMS SHALL BE THERMALLY ✓ BROKEN FRAMES WITH I" INSULATED GLASS UNITS TO IECC REQ'S. STOREFRONT SYSTEM IS TO MATCH ADJACENT STOREFRONT FINISHES AND MULLION SPACING.
- NEW FENCE SYSTEM. NEW MIN 3'-0" WIDE ACCESS GATE TO BE INTEGRATED INTO FENCE SYSTEM. GATE SHALL HAVE SELF-CLOSING HINGES AND NO LATCHING HARDWARE, AND SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL. FESTOON LIGHTING POLES TO BE PROVIDED REF TO RCP.
- NEW BLACK ALUM STOREFRONT SYSTEM. GLASS DOOR WITH FULL HEIGHT SIDELITE. SEE ELEVATIONS/ DOOR SCHEDULE.
- NEW 10'0"  $\times$  12'0" BLACK GARAGE DOOR WITH GLASS. CENTERED ON WALL. RE ELEVATIONS.
- (6) CASEWORK TO BE LOCKING. AV AND SAFE TO BE ON ADJUSTABLE SHELVING.
- POS SYSTEM. PROVIDE POWER AND DATA. COORDINATE FINAL SYSTEM WITH TENANT.
- 8 NEW CHECK-IN/RETAIL/LOCKER CASEWORK.
- (9) ENSURE WALLS ALIGN.
- NEW DECORATIVE CMU BLOCK PARTIAL HEIGHT WALL, GROUT TO BE COLOR MATCHED TO PT3 OR PAINTED. TUBE STEEL AND PAINTED CHAIN LINK FENCE ABOVE. RE ELEVATIONS. REINFORCED BOWEL AND FULLY GROUTED EVERY 32"OC.
- FREE GAME/PODIUM. FLOOR MOUNTED IN FIXED POSITION. 42" AISLE MIN PER CODE, TYP ALL GAME LOCATIONS. GC TO PROVIDE POWER AS REQD.
- 12 TENANT PROVIDED, GC INSTALLED WALL MOUNTED SPIN WHEEL AND BALL
- EMPLOYEE LOCKERS ULINE THREE TIER LOCKERS 3 WIDE, ASSEMBLED, 36" WIDE, 18" DEEP, BLACK
- POWER NEEDED FOR TENANT PROVIDED GAME IS TO BE RUN FROM CEILING DOWN COLUMN.
- PATCH AND REPAIR DRYWALL FOR CONTINUOUS, SMOOTH & PLUMB FINISHED
- DRYWALL SURFACE IN PREPARATION FOR PAINTED MURAL, BY OTHERS.
- BANQUETTE SEATING WITH LIGHT SHELF AND TABLES TO BE COORDINATED WITH FOOD AND BEV AND ARCHITECT.
- CNC LASER CUT POWDER COATED METAL DIVIDERS. DIVIDER TO BE FIXED TO CEILING AND BANQUETTE.
- SCREENING TO MATCH EXTERIOR STUCCO FINISHES PER LEES SUMMIT BUILDING REQ'S. FINAL DESIGN APPROVED BY OWNER. RE ELEVATIONS. COOLER SHALL BE INSTALLED
- ON FLAT CONCRETE SLAB PER MANUFACTURER SPECS. GC TO VERIFY. (19) STATIONARY GOLF CART BY TENANT.
- REFER TO FOOD SERVICE DRAWINGS FOR EQUIPMENT LAYOUT AND SPECIFICATIONS. GC TO COORDINATE INSTALL WITH TRIMARK.
- (21) PERMANENT PROJECTION SCREEN. COORDINATE WITH AV VENDOR. EXISTING 48" SIDEWALK IS TO REMAIN PER LEES SUMMIT REQUIREMENTS.  $^\prime$  NEW SIDEWALK MAY BE REQ'D TO EXTEND INTO LANDSCAPING BED. RELOCATE
- PLANTS AND IRRIGATION AS NECESSARY. ANY CHANGES TO BE REVIEWED BY ARCHITECT, TENANT AND OWNER.

  PUTT PUTT GAME AREA. GAME TO BE MOUNTED DIRECTLY OVER EXISTING FLOORING. CORE DRILL LOCATIONS WILL BE REQUIRED AT EACH HOLE.

COURSE SHALL COMPLY FULLY WITH 1107 MINIATURE GOLF FACULTIES CODE.

- 1107.3.1 START OF PLAY. A CLEAR FLOOR OR GROUND SPACE 48 INCHES (1220 MM) MINIMUM BY 60 INCHES (1525 MM) MINIMUM WITH SLOPES NOT STEEPER THAN 1:48
- SHALL BE PROVIDED AT THE START OF PLAY. 1107.3.2 GOLF CLUB REACH RANGE AREA. THE GOLF CLUB REACH RANGE APPLIES
- TO ALL HOLES REQUIRED TO BE ACCESSIBLE. THIS INCLUDES ACCESSIBLE ROUTES PROVIDED ADJACENT TO OR, WHERE PROVIDED, ON THE PLAYING SURFACE OF

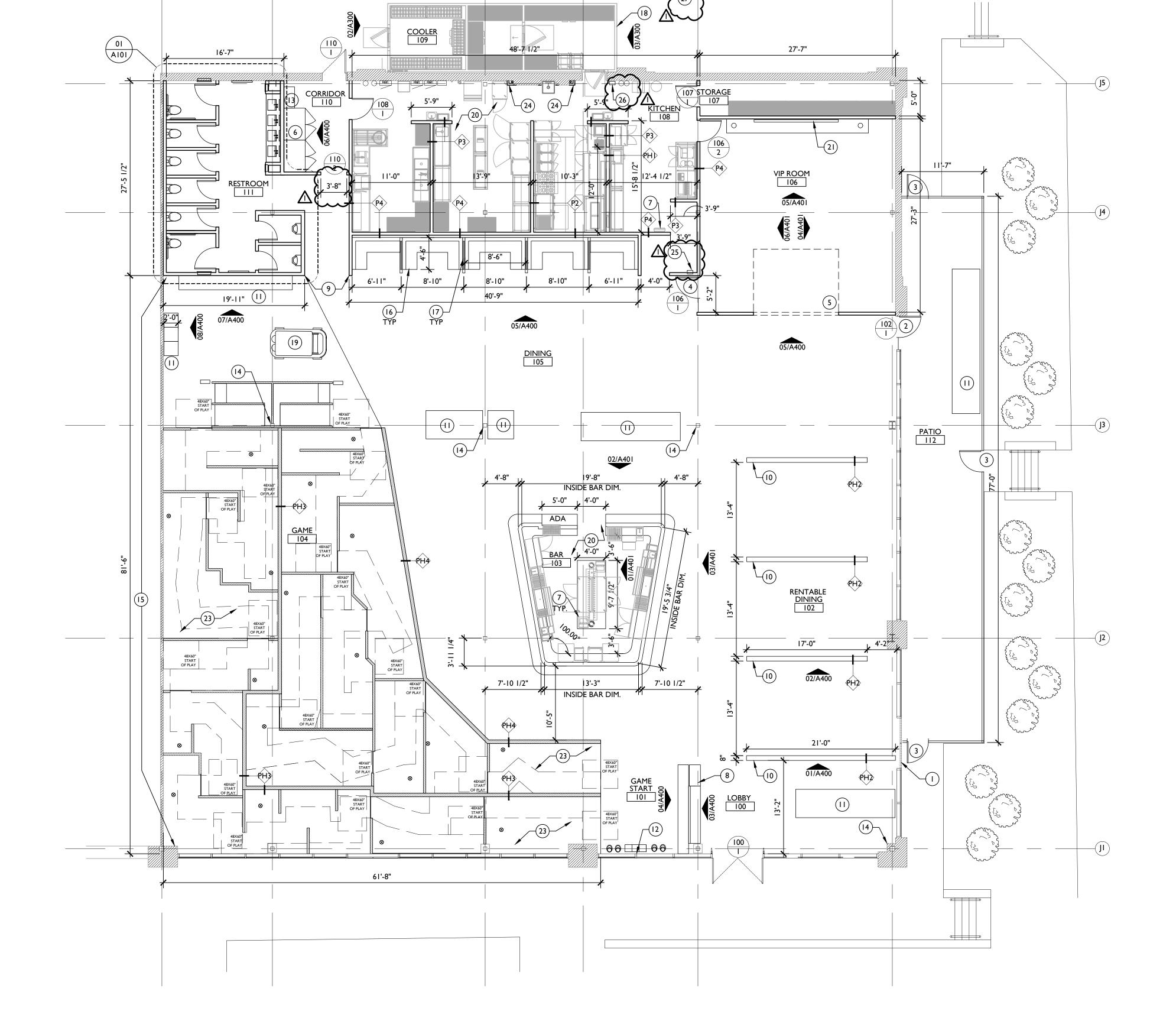


- Figure 1007.3.2 Golf Club Reach Range Area
- (24) COORDINATE FURRED-OUT WALL WITH ARCH & MEP TO HIDE VENT PIPE.
- HOLD VENT PIPE TIGHT TO INSIDE CORNER OF EXISTING WALL.
- (25) SEMI-RECESSED WALL MOUNTED FIRE EXTINGUISHER. STAINLESS STEEL FINISH.
- WALL MOUNTED CLASS K RATED PORTABLE FIRE EXTINGUISHER. EXTINGUISHER IS LOCATED 20' FROM FARTHEST POINT OF COOK LINE.
- FINAL GREASE INTERCEPTOR LOCATION TO BE APPROVED BY OWNER. LANDLORD INTENT IS TO PUSH LOCATION OUT TO PAVEMENT. GC TO COORDINATE WITH ARCHITECT, MEP AND TENANT.

issue	date
PERMIT SET	07.29.2024
REV 01	08.13.2024

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FLOOR PLAN



16'-2"

13'-10"

27'-5"

15'-7"

30'-0"

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A101

ENLARGED FLOOR PLAN

**RESTROOM TAG LEGEND & SPECIFICATIONS** 

1 SINK & DRAIN

6 SANITARY NAPKIN DISPOSAL 7 TOILET PAPER DISPENSER 8 18" VERTICAL GRAB BAR

12 TOILET

\* ALL ACCESSORIES SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

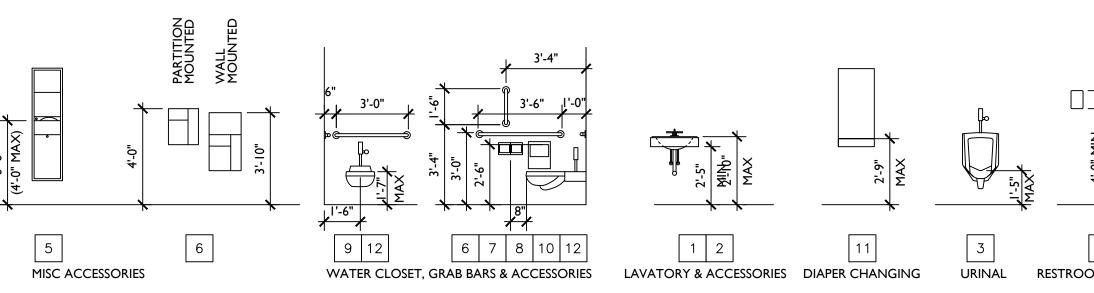
11 DIAPER CHANGING STATION

2 FAUCET 3 URINAL 4 RESTROOM SIGNAGE WASTE RECEPTACLE / PAPER TOWEL

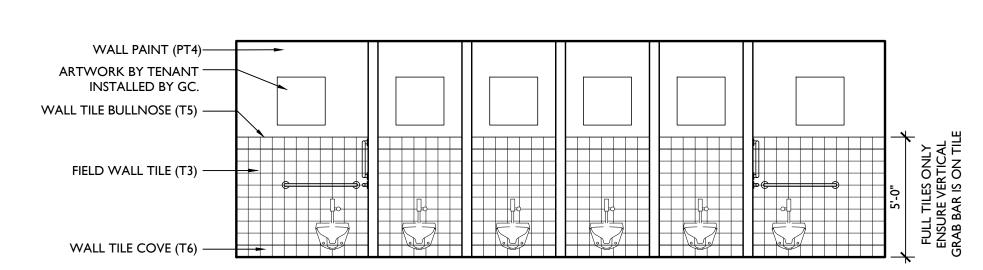
O DISPENSER

9 | **36" GRAB BAR** 10 **42" GRAB BAR** 

ADULT STANDARD MOUNTING HEIGHTS



Interior Section



TEMPERED WALL MOUNT

AS REQ.

2'-0"

FULLY-CONCEALED ZCLIPS.

PROVIDE BLOCKING IN WALL

- SEE FLOOR PLAN AND MEP

FOR SINK, FAUCET, AND SOAP.

3CM QUARTZ COUNTERTOP.

PLASTIC LAMINATE FRONT

PROVIDE TUBE STEEL FRAME AS

REQUIRED, W/ IN WALL BLOCKING.

CONCEALED PIPING/P-TRAP @

IF OFFERED - HOLD TIGHT TO

UNDERSIDE OF LAV.

WALL BEHIND SINK. LOW PROFILE

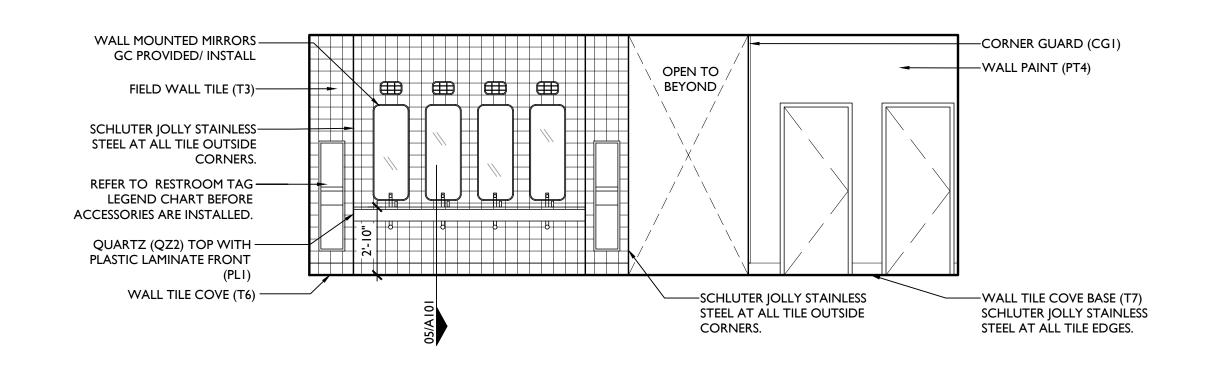
MIRROR SECURED TO WALL W/

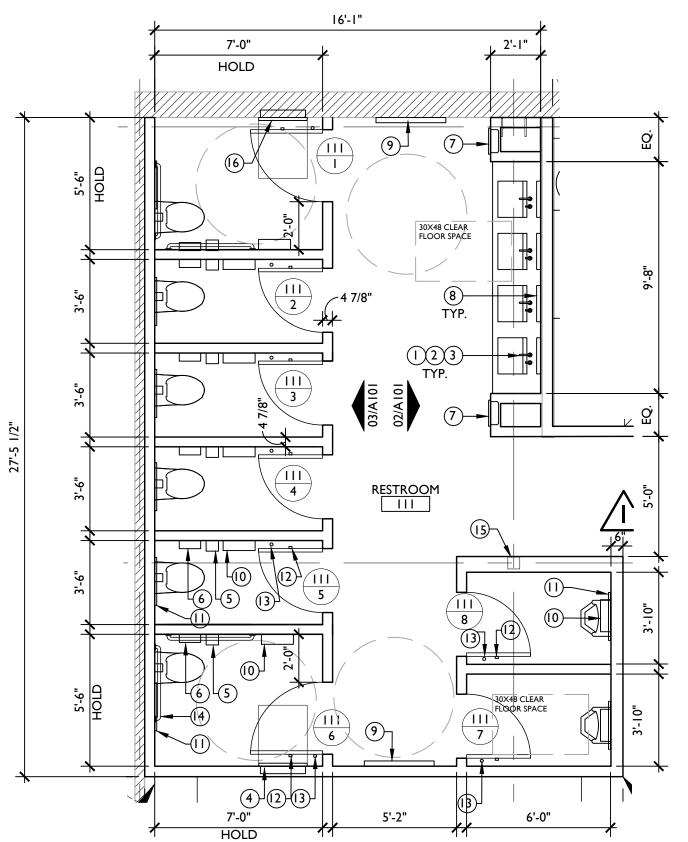
\*\*\*ALL 4 WALLS INSIDE STALLS TO HAVE WALL TILE AND PAINT ABOVE.

Interior Elevation Scale 1/4" = 1'-0"

Interior Elevation

Scale 1/4" = 1'-0"





RESTROOM SIGNAGE

\*\*\* FLOOR PLAN KEY NOTES APPLY TO ALL STALLS.

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FLOOR PLAN KEY NOTES:

UNDERMOUNT SINK:
BADELOFT- UNDERMOUNT RAMP SINK UB-04-M, BLANCO BRILLIANT (WHITE GLOSS)

7. SENSOR FLUSH VALVES FOR ALL TOILETS/URINALS

PARTITIONS, WALL MOUNT MIRRORS, ETC.

ENLARGED RESTROOM PLAN GENERAL NOTES:

I. ALL DIMENSIONS ITEMS ARE + / -

FOR ARCHITECT APPROVAL.

& APPROVAL. NO EXCEPTIONS.

FULLY-CONCEALED.

2 <u>FAUCET SPECIFICATION:</u> VIGO NOMA SINGLE HOLE BATHROOM FAUCET IN BLACK. FAUCETS; PROVIDE DESIGNER P-TRAP. SUBMIT SPEC. FOR ARCHITECT REVIEW. ALL SHUT-OFF VALVES SHALL BE INSTALLED TIGHT TO UNDERSIDE OF SINK BASIN, FULLY-CONCEALED.

2. DIMENSIONS FOR INTERIOR PARTITIONS ARE TO OUTSIDE FACE OF WALL FINISH.

3. ALL SHUT-OFF VALVES SHALL BE INSTALLED TIGHT TO UNDERSIDE OF SINK BASIN,

4. PROVIDE DESIGNER P-TRAP. INSTALL TIGHT TO UNDERSIDE OF SINK BASIN. SUBMIT SPEC.

5. GC TO SUBMIT ALL PLUMBING FIXTURE + ACCESSORY SPECS. TO ARCHITECT FOR REVIEW

APPROVED BY THE TENANT AND ARCHITECT. WHEN UNAPPROVED DEVIATIONS ARE

PROFESSIONAL SERVICE FEES) THAT MAY BE REQUIRED AS A RESULT OF THESE DEVIATIONS.

10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL BLOCKING AS

REQUIRED FOR ALL PLUMBING FIXTURES AND PLUMBING ACCESSORIES, TOILET/URINAL

II. PROVIDE BLOCKING IN WALL AS REQ. FOR WALL MOUNTED MIRRORS AND WALL

6. ALL CHANGES, DEVIATIONS, MODIFICATIONS, ADDITIONS OR DELETIONS FROM THE CONTRACT OF CONSTRUCTION OF APPROVED ARCHITECTURAL PLANS SHALL BE

MADE, THE GC SHALL BE HELD LIABLE FOR ANY ERRORS, OMISSIONS, DELAYS AND

SUPPLEMENTARY COSTS INCURRED (INCLUDING ARCHITECTURAL & ENGINEERING

8. PROVIDE IN-WALL BLOCKING FOR ALL ADA COMPLIANT HANDRAILS - TYP.

9. CONTRACTOR TO REFER TO MEP DRAWINGS FOR ALL MEP REQUIREMENTS.

MOUNTED VANITYS. GC TO PROVIDE POWER AS REQUIRED.

3 COUNTER MOUNT SOAP DISPENSER: VIGO BOLTON SOAP DISPENSER IN MATTE BLACK, VGSD005MB

BABY CHANGING TABLE:
KOALA KARE, RECESSED STAINLESS VERTICAL CHANGING STATION; #KBIII-SSRE; STAINLESS; 24" W X 4" D.

5 TOILET PAPER DISPENSER: SURFACE MOUNTED TOILET TISSUE; BOBRICK, B-2888 (OR APPROVED EQ.)

6 SANITARY NAPKIN DISPOSAL: SURFACE MOUNTED SANITARY NAPKIN; BOBRICK B-254, (OR APPROVED EQ.)

7 PAPER TOWEL DISPENSER:
SEMI-RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE; BOBRICK, B-38032 (OR APPROVED EQ.)

8 VANITY MIRRORS: MODERN 18 IN. W X 48 IN. H RECTANGULAR ROUNDED CORNER METAL FRAMED WALL MOUNTED BATHROOM WALL MIRROR. MODEL # BK 1848 STORE SKU # 1011020289 (OR APPROVED EQ.) MIRROR TO HAVE SECURITY MOUNTING HARDWARE

FULL HEIGHT MIRRORS:

36 IN. W X 72 IN. H RECTANGULAR OVERSIED BLACK ALUMINUM FRAMED ROUNDED FULL LENGTH MIRROR MODEL # B18191 STORE SKU # 1010377779 (OR APPROVED EQ.) MIRROR TO HAVE SECURITY MOUNTING HARDWARE

DRINK SHELF SPECIFICATION:
BOBRICK; 16" STAINLESS SHELF #B-295×16 (OR APPROVED EQ.). SURFACE MOUNT DRINK SHELF ABOVE ALL URINALS. COORD. INSTALL HEIGHT IN-FIELD W/ ARCHITECT

FRAMED CANVAS ARTWORK 24"X24" - ARTWORK TO HAVE SECURITY MOUNTING HARDWARE. COORDINATE WITH SIGN VENDOR.

DOOR HOOK:

AMAZON - BETTER HOUSEWARE MOUNTABLE SILVER ALUMINUM CROCODILE HOOK, 3.5" WIDTH AND 4" LENGTH - HANDCRAFTED ALUMINUM HOOK WITH JEWEL EYES, WHIMSICAL CLOTHING OR COAT HOOK.

DOOR STOP:
MOCKETT DS6 - 1-3/16" CYLINDRICAL DOOR STOP. STAINLESS. (OR APPROVED EQ.) GRAB BARS:

GC TO INVESTIGATE EXISTING WALL TO CONFIRM IF BABY CHANGING STATION CAN BE IN THIS LOCATION. ONLY ONE BABY STATION IS REQUIRED BY CODE.

BOBRICK; B-6806 SERIES, 18", 36" AND 42" GRAB BARS. (OR APPROVED EQ.) (15) ENSURE COLUMN IS FULLY CONCEALED WITHIN WALL.

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RCHITEC

I. ALL DIMENSIONS TO EXISTING ITEMS ARE + / -

2. CONTRACTOR TO COORDINATE ALL MEP REQUIREMENTS. 3. CONTRACTOR TO COORDINATE IT/AV/SECURITY SYSTEM WITH TENANTS VENDOR. PROVIDE CONDUIT AND PULL STRING FOR IT/AV/SECURITY WORK. COORDINATE

WITH ELECTRICAL & IT/AV/SECURITY. 4. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT BACK TO ARCHITECT ANY CONFLICTS THAT MAY AFFECT DESIGN INTENTIONS SHOWN ON PROJECT DOCUMENTS.

5. REFER TO MEP DRAWINGS FOR ALL EMERGENCY AND EXIT LIGHTING

REQUIREMENTS. 6. CONCEAL ALL CONDUIT TO LIGHT FIXTURES, EXIT DEVICES AND EMERGENCY LIGHTING IN WALL OR IN HARD PIPE CONDUIT. 7. ALL CEILINGS TO BE OPEN TO STRUCTURE, UNLESS NOTED OTHERWISE. ALL

EXPOSED STRUCTURE, CONDUIT AND DUCTWORK TO BE PAINTED. 8. CENTER LIGHTS WITHIN SOFFIT AND TILES U.N.O

9. COORDINATE MOUNTING HEIGHTS OF ALL PENDANT LIGHTS IN FIELD WITH ARCHITECT U.N.O. 10. PROVIDE NEW CLEAR, EDGE LIT EXIT SIGNS U.N.O. REFER TO ELECTRICAL DRAWINGS

FOR SPECIFICATION. II. CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE

DONE AFTER BUSINESS HOURS. COORDINATE WITH LANDLORD AND TENANT. 12. CONTRACTOR SHALL COORDINATE BLOCKING REQUIREMENTS OF ALL ITEMS IN

SCOPE TO PROVIDE BLOCKING AS NEEDED FOR INSTALLATION AND SUPPORT. 13. ALL SOFFIT AND WALLS IN OPEN STRUCTURE AREAS SHOULD CONTINUE TO

STRUCTURE. MATCH EXISTING SOFFITS. 14. PATCH AND PAINT ALL DAMAGED CEILINGS/SOFFITS FROM FIXTURE AND HVAC

15. PAINT ALL EXPOSED/OPEN STRUCTURE, DUCTING, CONDUIT, ETC, PT2.

16. IN FEATURE ROOMS (RESTROOM, VIP ROOM, BAR SOFFIT, ETC) PAINT ALL CEILING DUCKING/GRILLS TO MATCH ADJACENT ACCENT PAINT COLOR.

#### REFLECTED CEILING PLAN KEYED NOTES:

PROVIDE ALLOWANCE FOR STRUCTURAL SUPPORT/TIE-BACK AS REQUIRED AT HOODS, PER FINAL KITCHEN EQ PLANS AND EQ SPECS.

(2) WALL MOUNTED DECORATIVE MARQUEE LETTERS. PROVIDE POWER AS REQUIRED. FINAL DESIGN BY SIGNAGE COMPANY. COORDINATED BY GC APPROVED BY TENANT AND ARCHITECT. SIGN COMPANY RECOMMENDATION - MIDTOWN SIGNS dennis@midtownsigns.com

(3) RECESSED COVE WITH LIGHT FIXTURE.

(4) Fixture H is to be wall mounted with exposed conduit. Re elevations for layout.

(5) LED TAPE LIGHT IS BELOW IN CASEWORK.

(6) FIXTURES TO BE CENTERED BETWEEN PARTIAL HEIGHT WALLS.

NEW SOFFIT TO ALIGN WITH EXISTING SOFFIT. RETURN SIDE FACE TO DECK TO  $\stackrel{7}{\smile}$  match adjacent sidewall.

(8) EXISTING EXTERIOR AWNING TO REMAIN.

(9) FIXTURES TO ALIGN.

CEILING MOUNTED ULTRA SHORT THROW PROJECTOR. FINAL SPECIFICATION SHOULD BE COORDINATED WITH AN AV CONSULTANT. PROJECTOR TO BE BLACK.

CEILING AND COLUMN MOUNTED TVS. GC TO PROVIDE BLOCKING. ALL EXPOSED TV SUPPORTS TO BE BLACK. COORD SUPPORT BRACKETS WITH TENANT & ARCH.

CEILING MOUNTED TAP SYSTEM AND CEILING MOUNTED TV ON ANGLED BRACKETS, PROVIDE POWER / DATA / CABLE PER MEP. GC TO COORDINATE WITH F&B.

(13) EXTERIOR LIGHTING INTEGRATED INTO NEW FENCE SYSTEM.

EXTERIOR SIGNAGE "CRAFT PUTT" FINAL SIGN TO BE APPROVED BY OWNER/TENANT.

DESIGN INTENT: EDEE CTANDING LETTER STANDING LETTER DESIGN INTENT; FREE STANDING LETTER SIMILAR TO DICKS SPORTING GOOD AT SUMMIT FAIR. SIGN TO HAVE POWER. GC TO COORDINATE WITH SIGN VENDOR.

NEW EXTERIOR SIGNAGE TO MATCH SUMMIT FAIR STANDARDS. FINAL SIGN TO BE APPROVED BY TENANT.

BEER LINE WILL RUN FROM EXTERIOR COOLER ABOVE THE CEILING AND INTO BEER TAP SYSTEM. GC TO COORDINATE WITH F&B ON INSTALL.

(17) PATCH AND FILL SOFFIT WHERE PARTITION WAS REMOVED.

WHERE VISIBLE AT THE FOH - CONCEAL BEER-LINES IN CONDUIT - PAINT PT2. COORDINATE HANGER DETAILS WITH TAP PROVIDER AND ARCH.

LIGHT FIXTURE SCHEDULE

A BASIS OF DESIGN: RECESSED TROFFER - 2'X4'. RATED FOR COMMERCIAL KITCHEN USE.

B 4"x4" LED SQUARE CAN LIGHT SPEC: LITHONIA LIGHTING - LDN4SQ, COLOR: BLACK. OR APPROVED EQ.

C BASIS OF DESIGN: 4"x4" LED SQUARE CAN LIGHT FOR ACT. COLOR: BLACK.

D TAPE LIGHT SPEC: DIODE LED - DI-12V-BLSC2-30-016-IES W/ DIMMING POWER SUPPLY,

PROVIDE INSTALLATION CHANNEL OR APPROVED EQ. E 5" LED PENDANT CABLE MOUNT ROUND CYLINDER LIGHT

F INDOOR/OUTDOOR STRING LIGHTS

SPEC: NORA LIGHTING, NYLM COLOR: BLACK OR APPROVED EQ.

SPEC: SUNTHIN 48FT STRING LIGHTS, COLOR: BLACK. OR APPROVED EQ.

G DECORATIVE PENDANT - VISO, GLOBO PENDANT, LED, WHITE, LARGE, 19.7"

H DECORATIVE 7" W WALL SCONCE - RE ELEVATIONS FOR QUANTITY SPEC: ACCESS LIGHTING; NAUTICUS SINGLE LIGHT LED; 20294-SAT/FST

BASIS OF DESIGN: ALCON LIGHTING - 4-INCH OPTIC HEIGHT PERIMETER LED COVE RECESSED LIGHT, OR APPROVED EQ.

K WALL SCONCE - LIGHTOLOY - NAUTICUS OVAL OUTDOOR BULKHEAD WALL / CEILING LIGHT #ACC83697, BLACK

L SURFACE MOUNTED 6" CYLINDER, COLOR: BLACK

M DECORATIVE WALL SCONCE - CERNO, CERNO ROUND PROFILE LED ART LIGHT,24", GOLD, STANDARD DIRECT MOUNT, HARDWIRED

N BASIS OF DESIGN: TRACK LIGHTING, COLOR: BLACK

P 4"x4" LED SQUARE CAN LIGHT SPEC: LITHONIA LIGHTING - LDN4SQ, COLOR: WHITE. OR APPROVED EQ.

SPEC: KLUS 45-ALU EXTRUSION - B4023ANODA COLOR: SILVER ANODIZED W/ TAPE LIGHT ON DIMMING POWER SUPPLY OR APPROVED EQ.

R 2"x2" LED SQUARE CAN LIGHT SPEC: LITHONIA LIGHTING - LDN4SQ, COLOR: WHITE. OR APPROVED EQ.

XI EXISTING TRACK LIGHTING

PAINT CEILING TRACK AND FIXTURE HOUSING TO ALIGN WITH CEILING COLOR.

X2 EXISTING LINEAR LIGHTING ON TRACK SYSTEM PAINT TRACK/CABLES AND FIXTURE HOUSING TO ALIGN WITH CEILING COLOR.

X3 EXISTING CAN LIGHTS TO REMAIN.

COORDINATE.

- ALL LAMPS SHALL BE 3500K COLOR TEMPERATURE

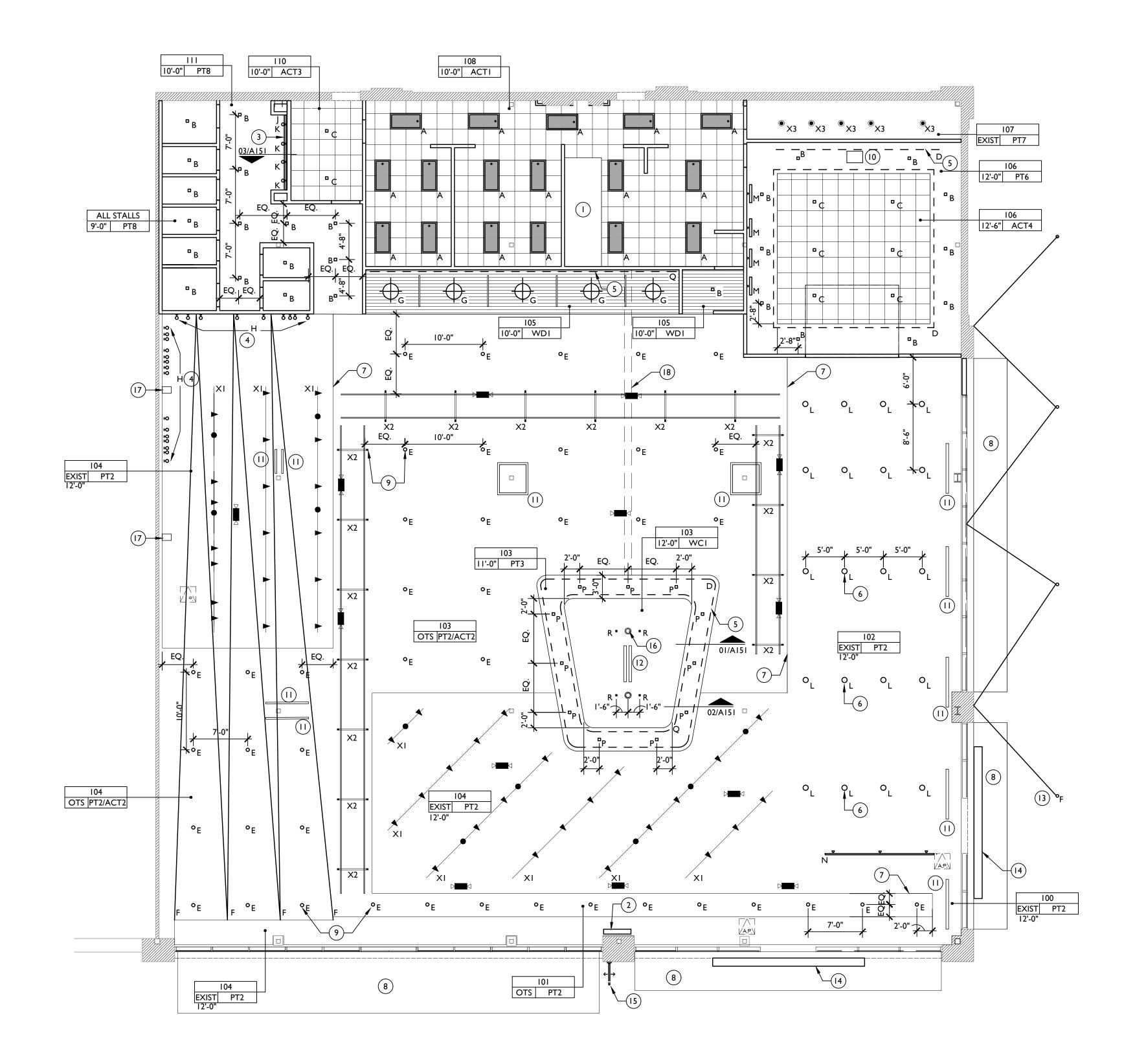
- ALL FIXTURES TO BE ON DIMMERS. CONTRACTOR TO SUBMIT CUTSHEETS FOR ALL FIXTURES FOR ARCHITECT APPROVAL

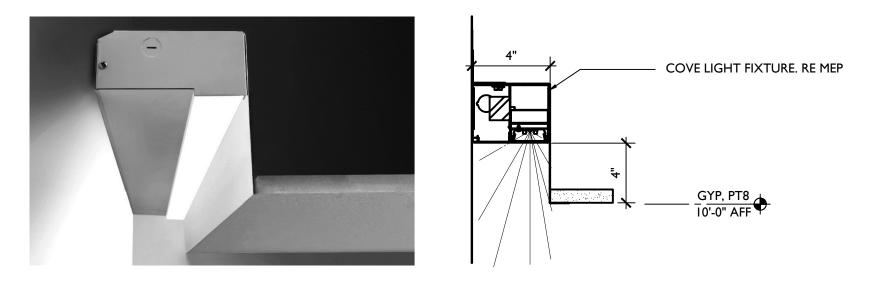
PRIOR TO INSTALLATION. ALL DECORATIVE SIGNAGE TO BE PROVIDED BY TENANT/SIGNAGE VENDOR. GC TO aft

issue 07.29.2024 PERMIT SET REV 01 08.13.2024

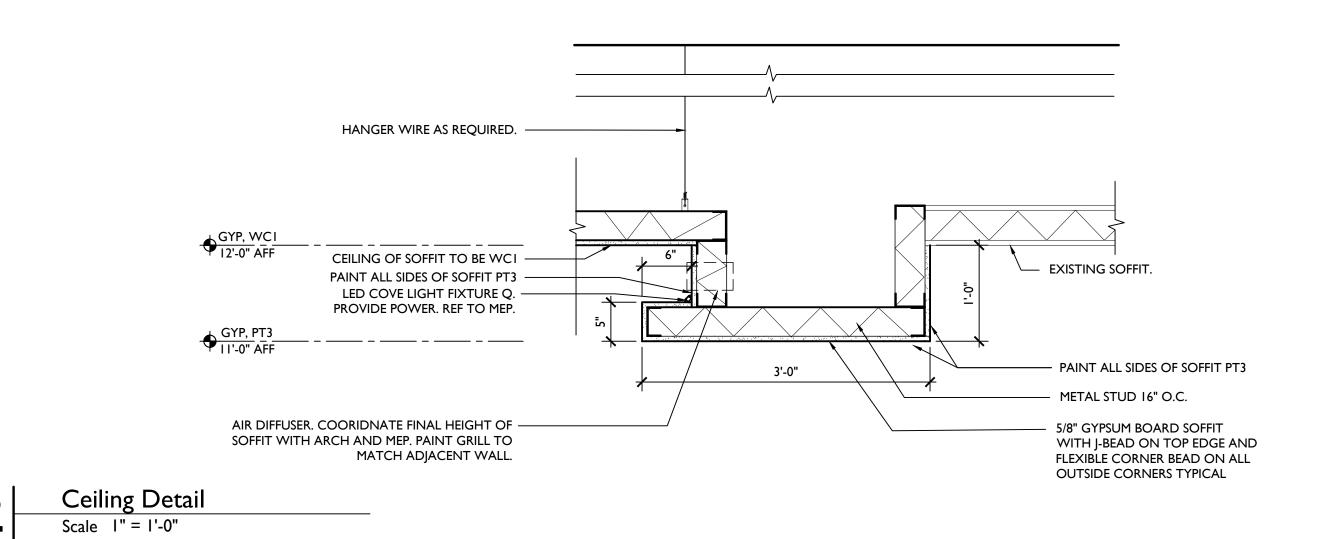
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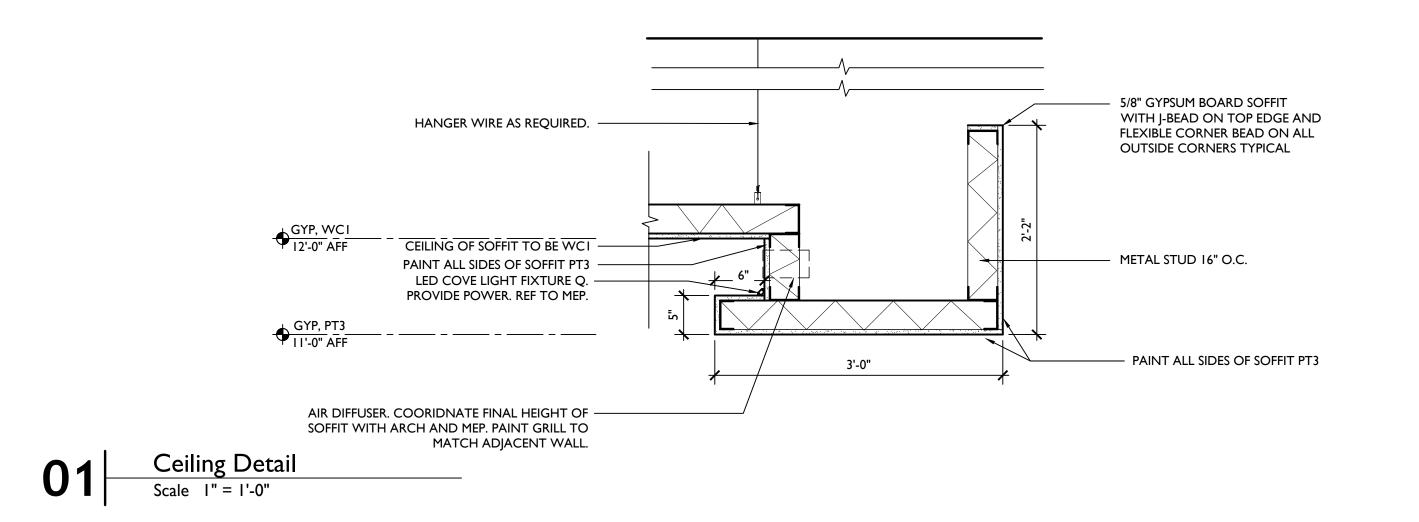
REFLECTED CEILING PLAN





Ceiling Detail
Scale NTS





# Clockwork Clockwork

423 Delaware St Ste 102 Kansas City MO 64105 www.clockwork-ad.com



# Craft Putt - Lee's Summit Summit Fair 840-M NW BLUE PKWY, SUITE M LEE'S SUMMIT, MO 64086

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A151

CEILING DETAILS

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# Craft Putt - Lee's Summit

Summit Fair 840-M NW BLUE PKWY, SUITE M LEE'S SUMMIT, MO 64086

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ROOF PLAN

(E) W14x43 (E) W16x26 (E) W16x26 (E) W<sub>1</sub>4x22 (E) 16KCS2 (E) 14KCS2 (E) 32G 5N 7.4K (E) 32G 5N 7.3K (E) 32G 5N 7.2K (E) W<sup>1</sup>18x35 (E) 20KC\$2 ( (E 32G 5N 7.4K (€) 32\( 5\) 7\( 3\) K (E) 32G 5N/7.2K (E) W18x35 (E) 20K4 (E) 32G 5N 7.2K (E) 32G 5N 7.4K (E) W18x35 (E) 32G 5N 7.3K (E) 22K4 (E) 20K4 (E) W12x19 (Ė) W12x14 (E) W12x19 (E) W12x14 (E) W<sup>1</sup>16x26

FLOOR PLAN GENERAL NOTES:

EXISTING ROOF CONSTRUCTION IS 1-1/2" MTL DECK WELDED TO SUPPORT FRAME.
 COORD ALL NEW ROOF PENETRATIONS WITH ARCH AND MEP.
 INISTALL ALL FOLLOWERS FOR PENETRATIONS FOR MANUFACTURED DETAILS.

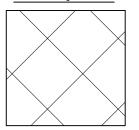
COORD ALL NEW ROOF PENETRATIONS WITH ARCH AND MEP.
 INSTALL ALL EQUIPMENT, CURBS, PIPE PENETRATIONS PER MANUFACTURER DETAILS.
 PATCH AND REPAIR EXISTING TPO ROOFING AS REQUIRED AT NEW PENETRATIONS

#### General Code Related Notes:

Per 2018 IBC 1606.2 Design dead load. For purposes of design, the actual weights of materials of construction and fixed service equipment shall be used. In the absence of definite information, values used shall be subject to the approval of the building official

Unified Development Ordinance Article 8, Section 8.180.E Roof mounted equipment - All roof-mounted equipment shall be screened entirely from view by using parapet walls at the same height as the mechanical units. For additions to existing buildings that do not meet this standard, individual screens will be permitted, with the design subject to approval by the Director.

RTU / EQ ZONE



HATCHED AREA DENOTES EXISTING RTU ZONE WHICH HAS BEEN DESIGNED FOR 2000 LB MAX PER UNIT WEIGHT (COMBINED CURB AND TRU OPERATING WEIGHT). IF WEIGHTS EXCEED THIS LIMIT, NOTIFY ARCHITECT AND ENGINEER. RTU'S AND MISC EQUIPMENT SHALL BE ARRANGED SO THAT NO MORE THAN ONE RTU SHALL LOAD THE SAME JOIST.

#### ROOF PLAN KEY NOTES:

EXISTING RTU/HVAC UNITS TO REMAIN

NEW MECHANICAL / WALK-IN COOLER CONDENSER / MAKE-UP AIR UNIT / GREASE DUCT EXHAUST - COORD FINAL SPEC AND SIZING WITH MEP. COORD FINAL PLACEMENT WITH ARCHITECT TO ENSURE UNIT IS NOT VISIBLE FROM STREET.

NEW WALK-IN COOLER ROOF BELOW. CONDENSERS FOR COOLER SHALL BE PLACED ON UPPER ROOF AND ALL PIPING/LINE-SETS SHALL BE RUN IN A CONCEALED FASHION INSIDE THE BUILDING TO THE ROOF. LINE SETS, CONDUIT, ETC ARE NOT TO BE EXPOSED ON OUTSIDE OF BUILDING.

COOLER ROOF SHALL BE INSTALLED AGAINST EXISTING BUILDING FACADE WITH FLASHING AND COUNTER-FLASHING FOR A WEATHERTIGHT INSTALLATION, PER

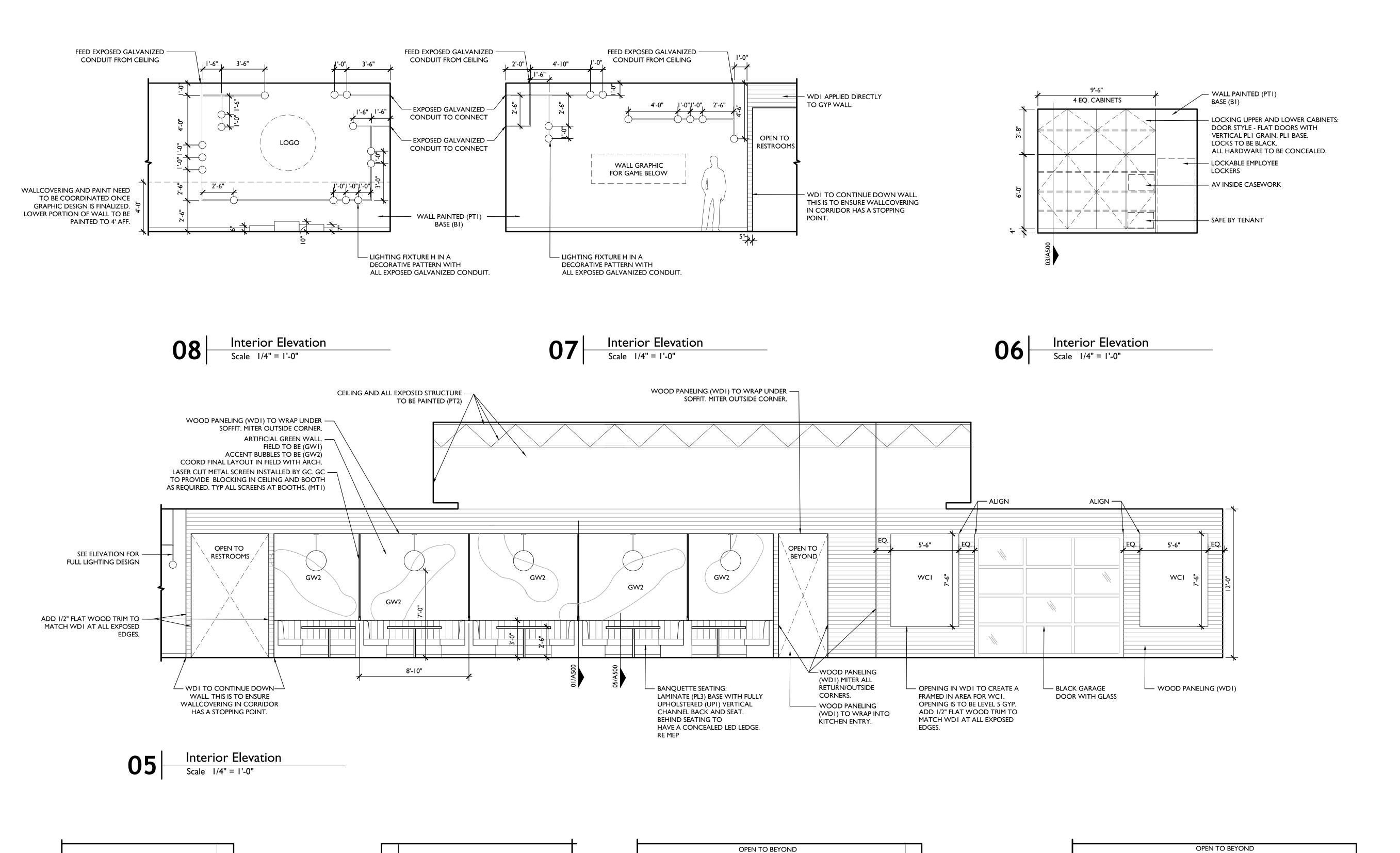
MANUFACTURER INSTALLATION INSTRUCTIONS.

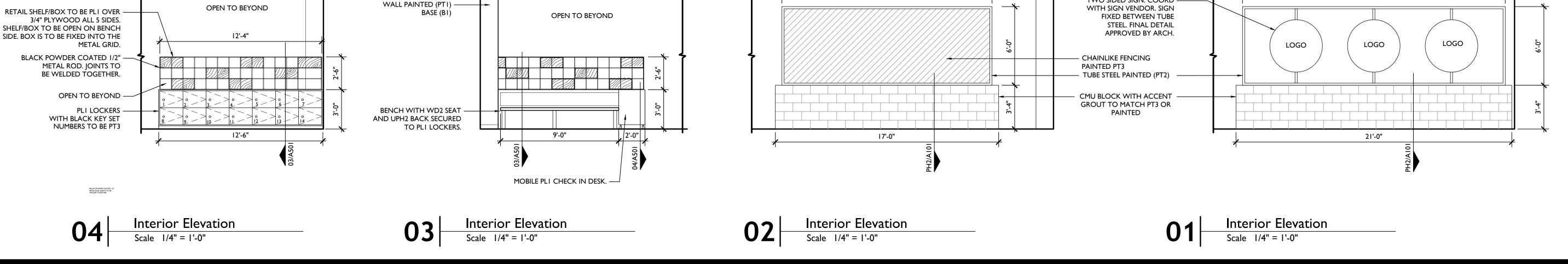
NEW CONDENSER UNITS SHALL BE LOCATED WITHIN THE HATCHED RTU / EQ

ZONE ON UPPER ROOF.

20'-0"

TWO SIDED SIGN. COORD —





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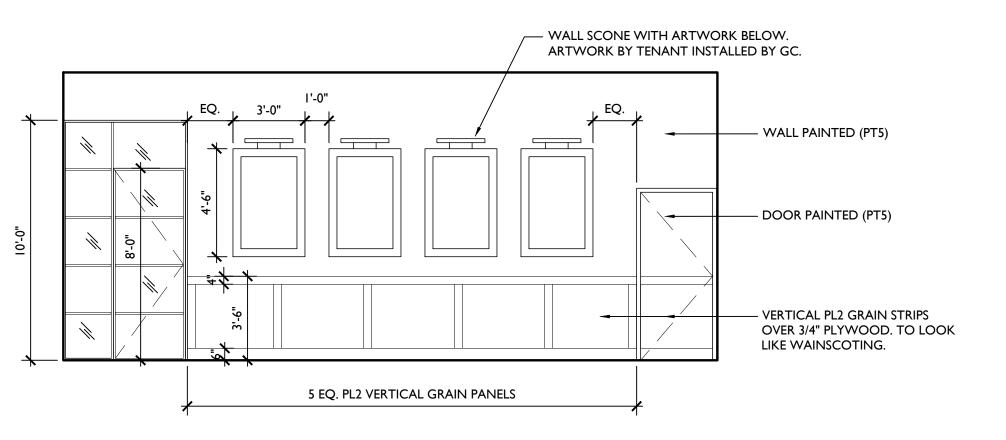
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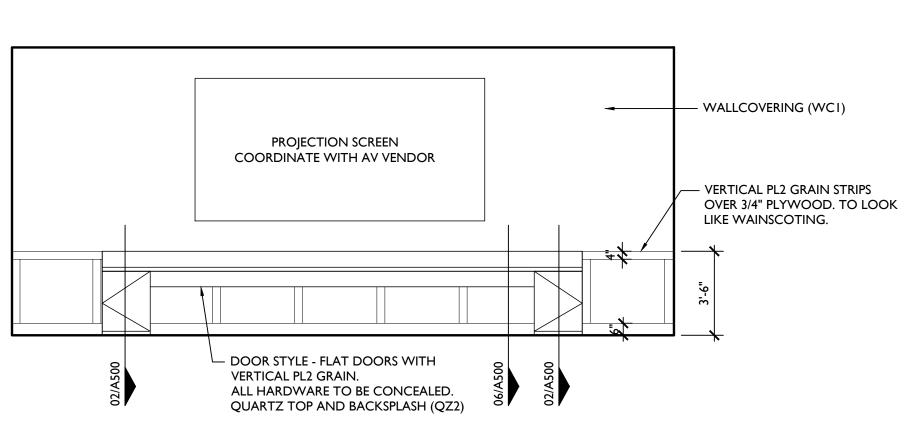


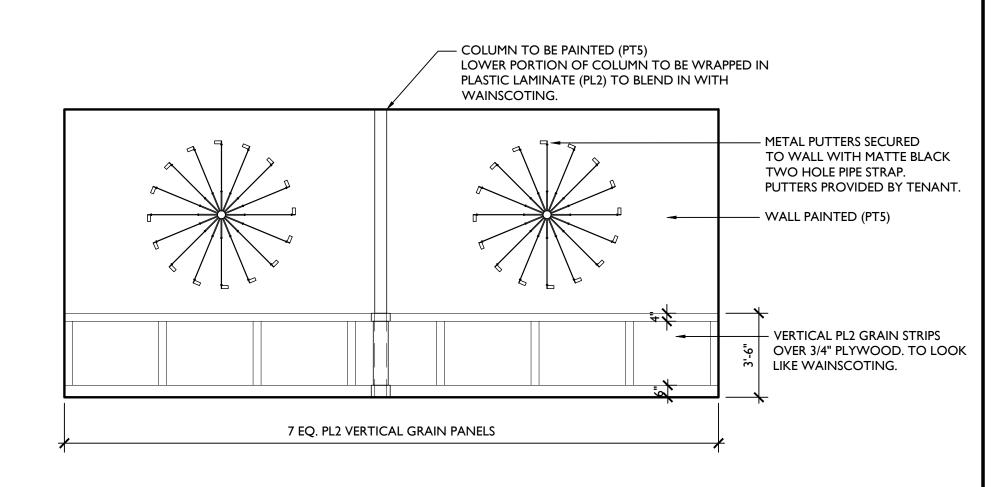
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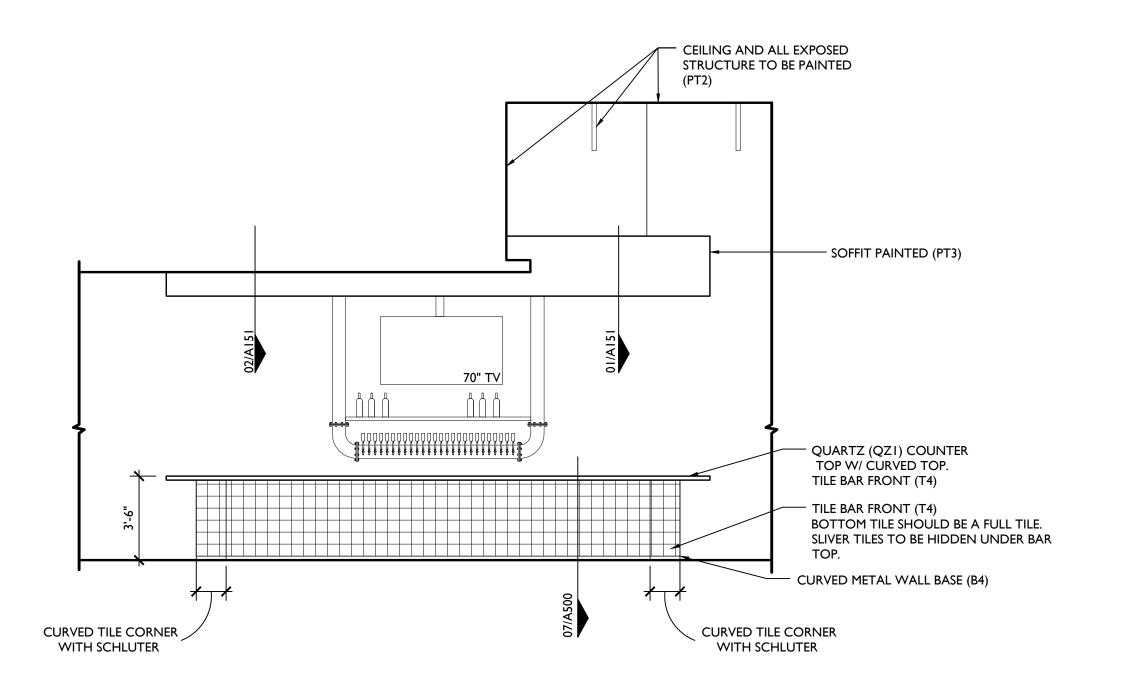
Interior Elevation

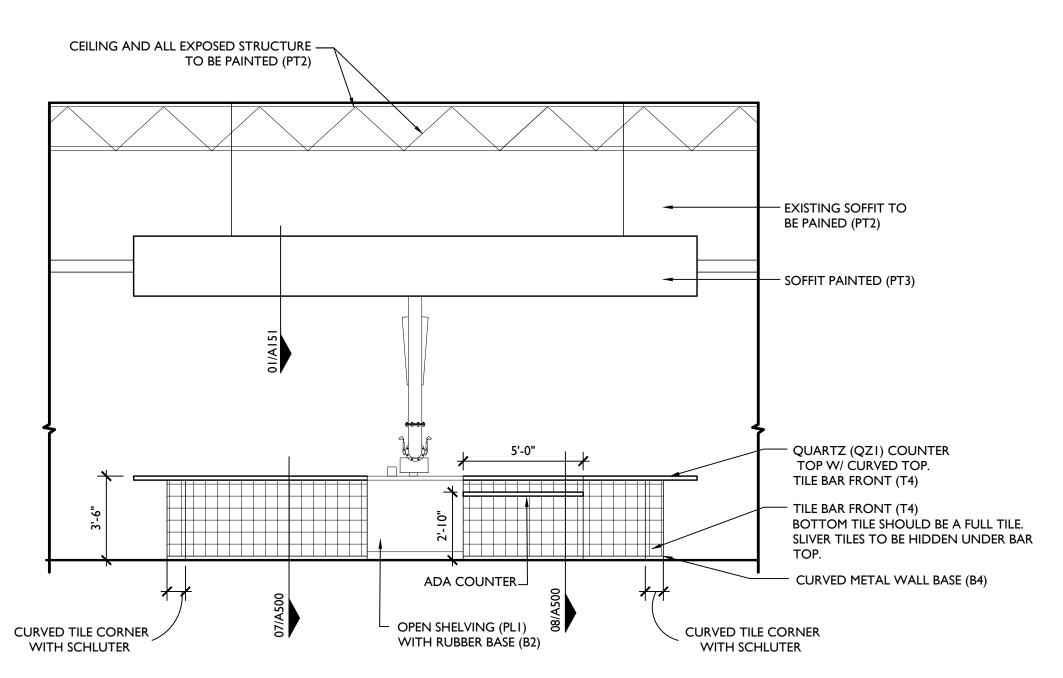
Scale 1/4" = 1'-0"

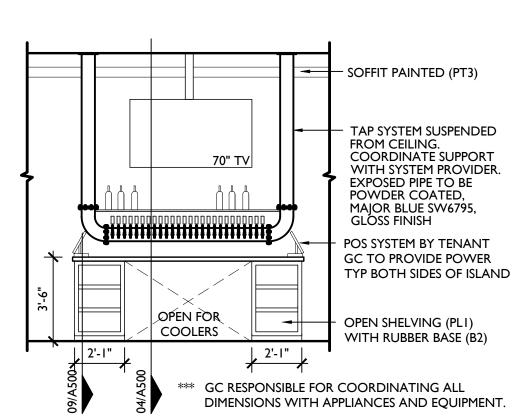
Interior Elevation

Interior Elevation

Scale 1/4" = 1'-0"



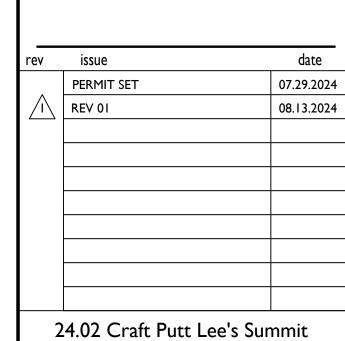




Interior Elevation

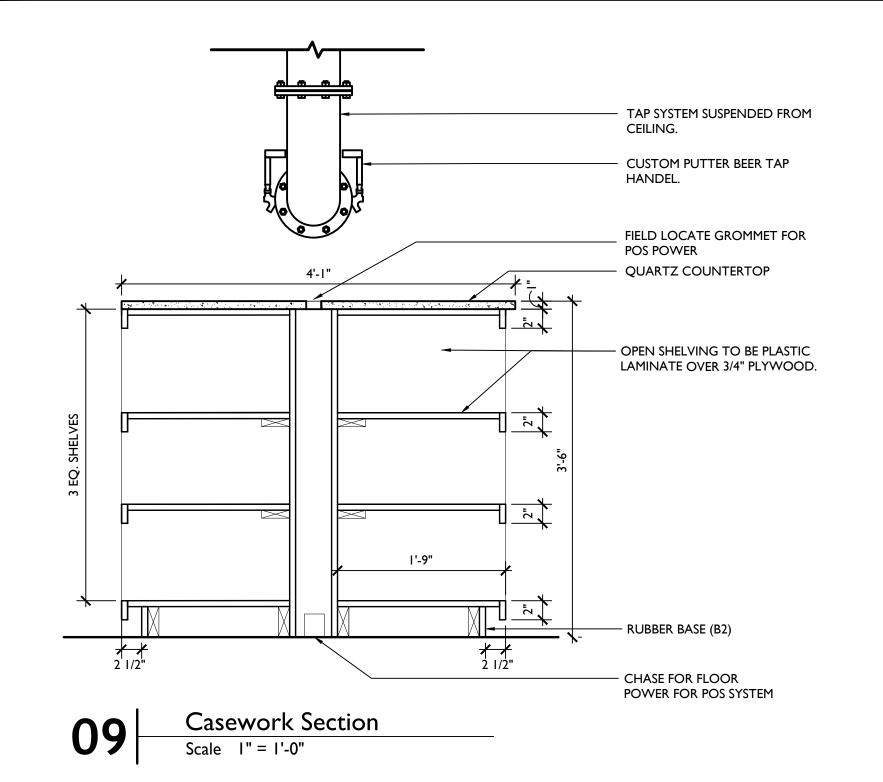
Interior Elevation Scale 1/4" = 1'-0"

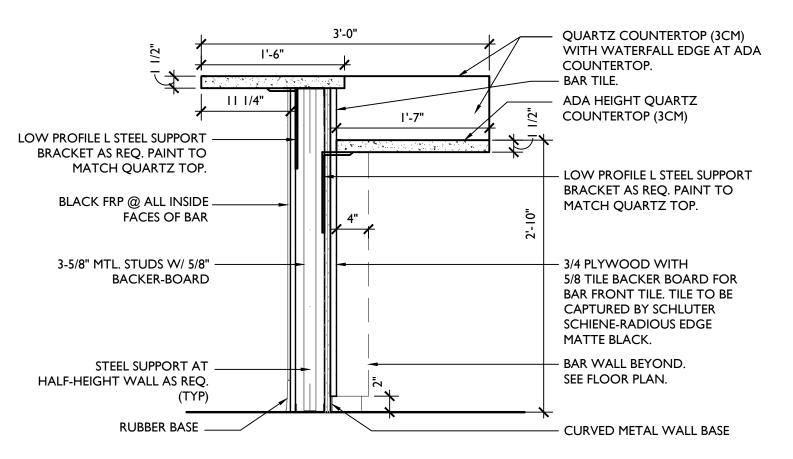
Interior Elevation

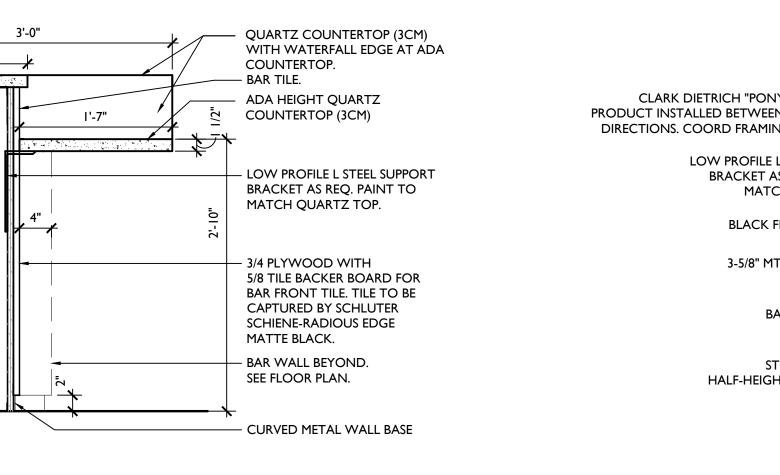


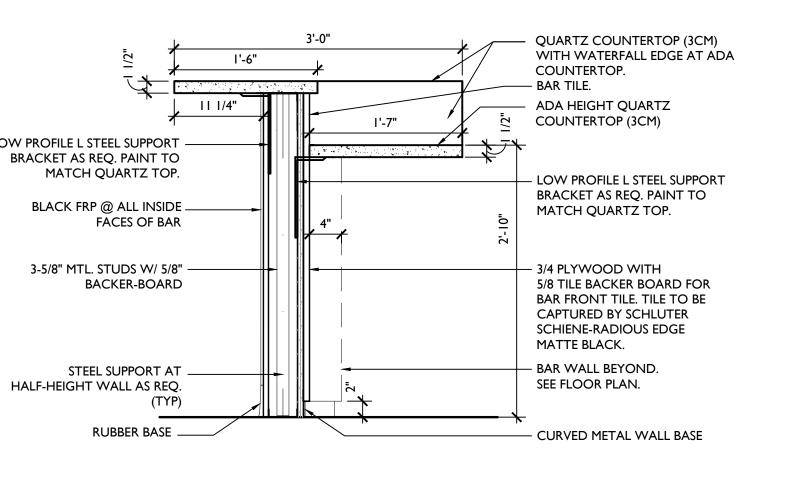
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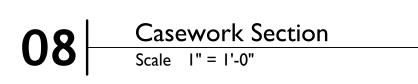
INTERIOR ELEVATIONS

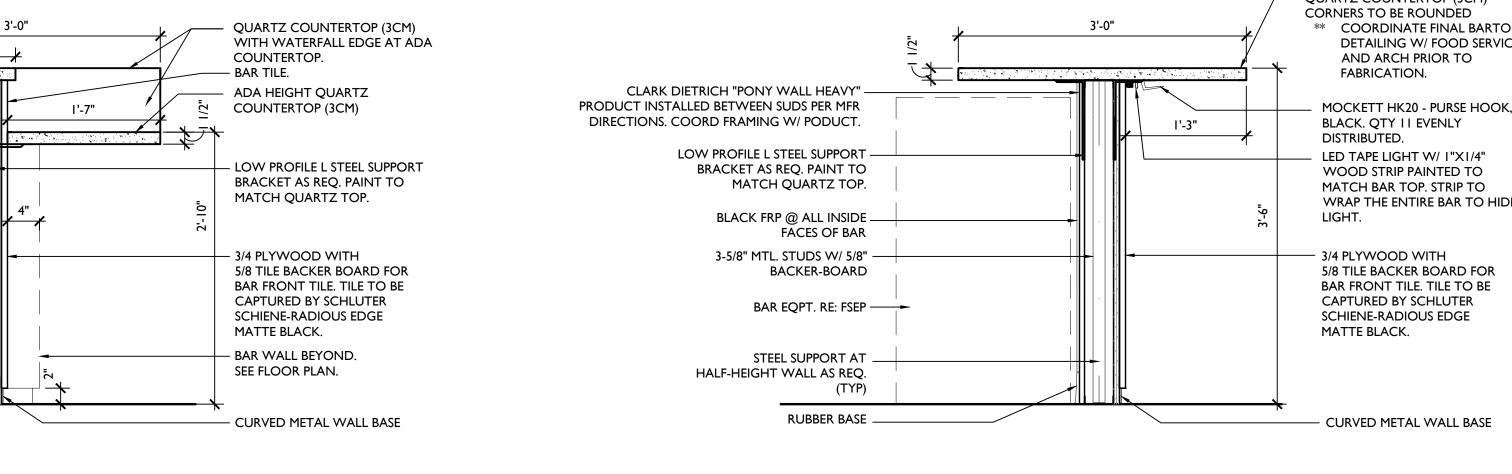




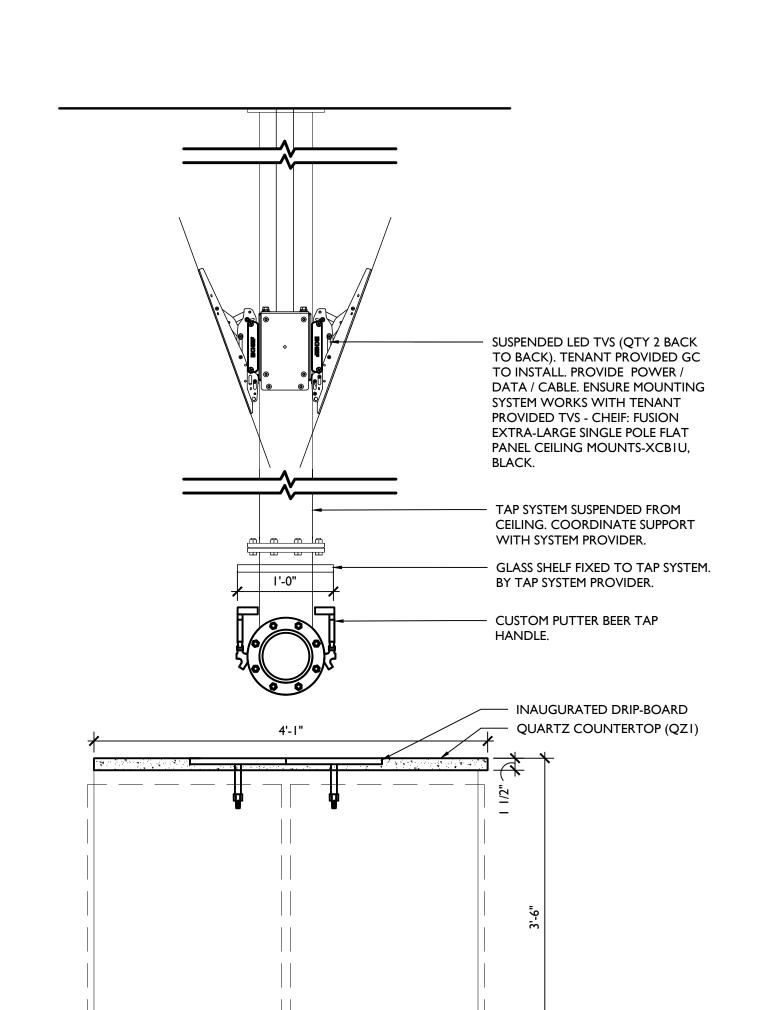








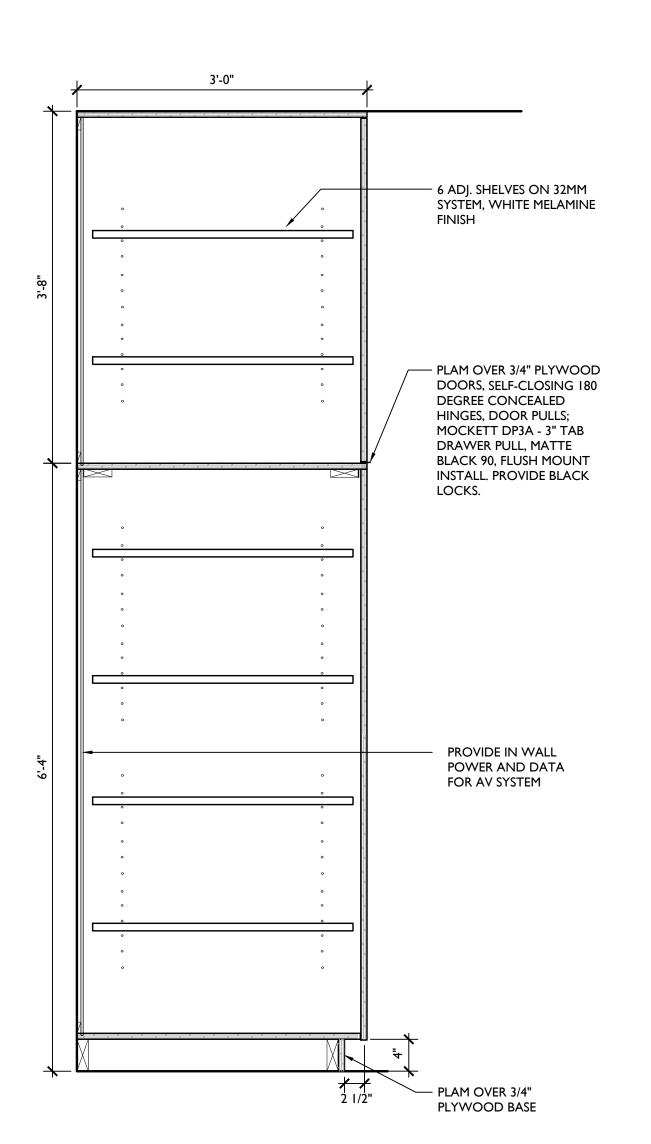
Casework Section



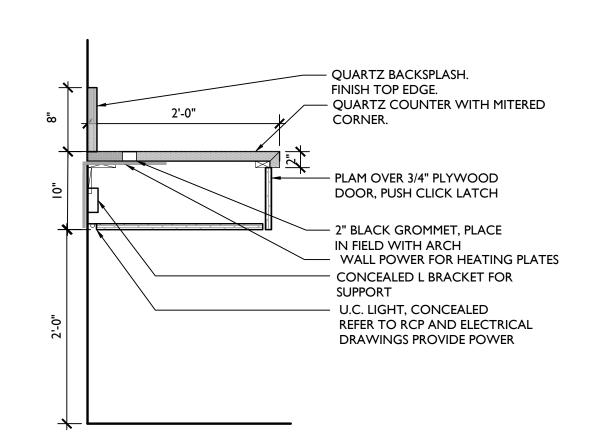
\*\*\* GC RESPONSIBLE FOR COORDINATING ALL DIMENSIONS WITH

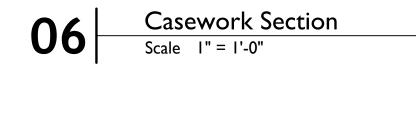
APPLIANCES AND EQUIPMENT.

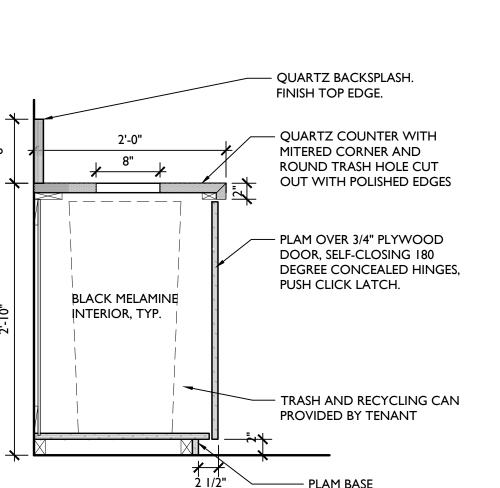
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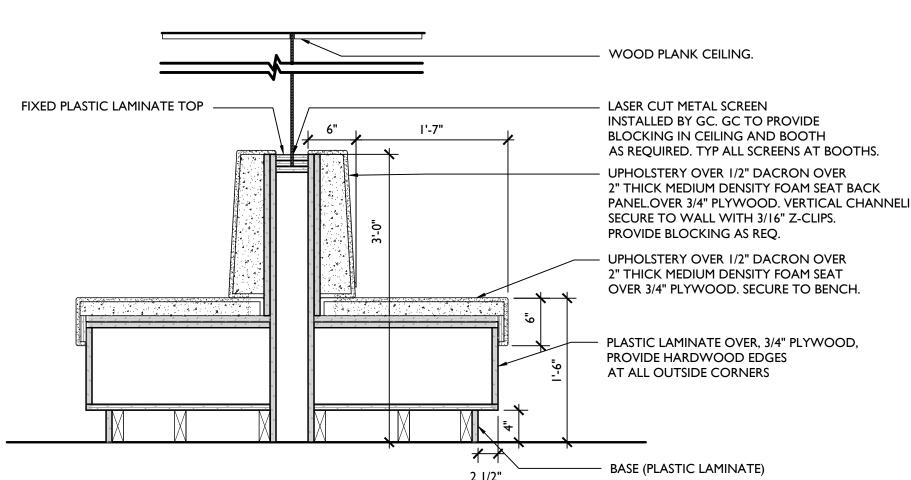


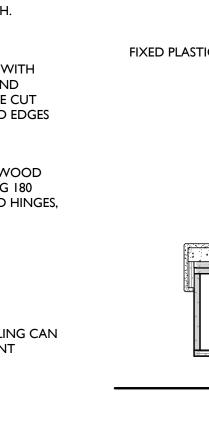
Casework Section









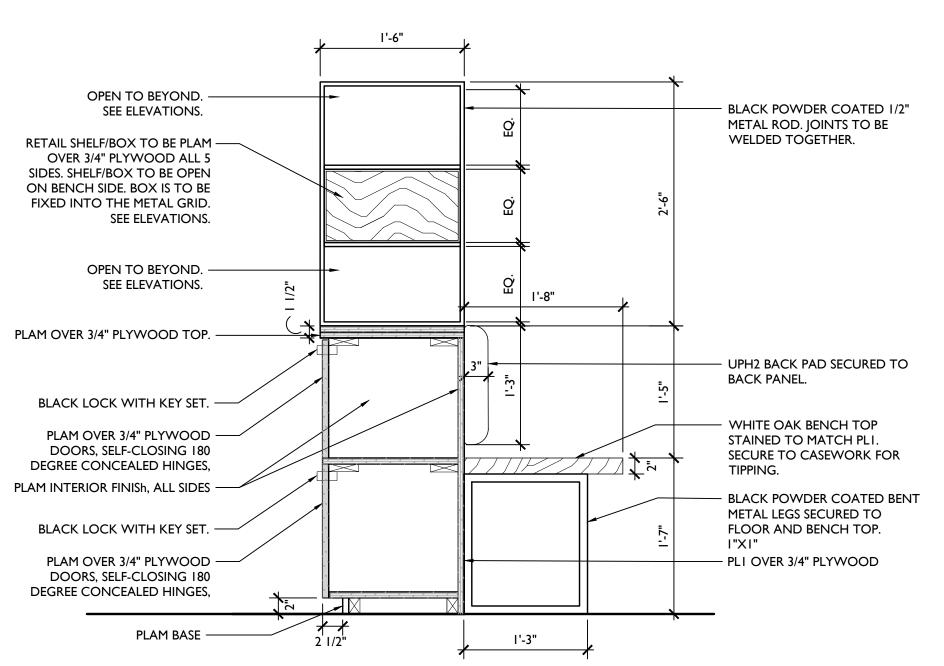


Casework Section Scale I" = I'-0"

**Casework Section** 

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I. AT ALL KITCHEN, BAR AND FOOD-SERVICE AREAS - INTEGRAL COVED BASE TO BE USED WITH EPOXY TYPE FLOORING. WHERE RUBBER BASE IS INDICATED, CLEAR SILICONE SEALANT MUST BE APPLIED AT ALL IOINTS)



Casework Section

Scale I" = I'-0"

- PLAM OVER 3/4" PLYWOOD TOP.

DRAWER. DRAWER GLIDES: FULL EXTENSION BALL BEARING TYPE

DOOR PULLS; MOCKETT DP3A - 3"

MATTE BLACK TAB DRAWER PULL.

PLAM OVER 3/4" PLYWOOD

- PLAM OVER 3/4" PLYWOOD

DOORS, SELF-CLOSING 180

– I ADJ. SHELVES ON 32MM

 WHEELS TO BE SELF LOCKING IN PLACE

SYSTEM, WHITE MELAMINE

DEGREE CONCEALED HINGES,

1'-8"

Casework Section

STAINLESS LOCATIONS - STAINLESS BY FOOD SERVICE:
PROVIDE STAINLESS CORNERS AND TOP CAP.
FRP LOCATIONS - PROVIDED BY GC AND PROVIDE CORNERS
AND TOP CAP.

ANODIZED EPOXY FLOORING TRIM EDGE

SILICONE SEALANT

ANODIZED EPOXY FLOORING CAP STRIP

CEMENTITIOUS BACKER BOARD

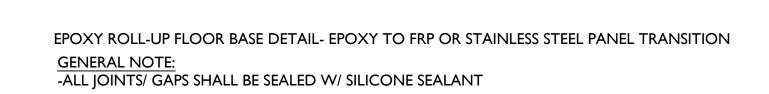
OR SPEEDCOVE 3/4" RADIUS OR EQ.

PRE-FORMED EPOXY FLOOR COVE STRIP BY SUB

EPOXY FLOORING W/ MONOLITHIC COLOR (NO FLECKS) GC TO SUBMIT COLOR SAMPLE

- EXISTING/ NEW CONCRETE SLAB COORDINATE W/ EXISTING CONDITIONS

- 4" ROLL-UP EPOXY FINISH



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INTERIOR DETAILS

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>44°

CHRISTIAN

J. ARNOLD NUMBER

A-2003027158.

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Kansas City MO 64105

ALL GYP BD WALLS SHALL BE PAINTED (PT1), U.N.O. ON PLAN.
 ALL EXPOSED CEILINGS SHALL BE PAINTED (PT2), U.N.O. ON RCP.
 ALL RECEPTACLES & COVER PLATES AT PAINTED PT1 WALLS TO BE BLACK. COVER PLATES AT WALLCOVERING WALLS, WOOD WALLS, OR ACCENT PAINTED WALLS STAINLESS STEEL.
 ALL WALL BASE TO BE B1, U.N.O. ON PLAN.

CONTRACTOR TO PROVIDE 4'X4' PAINT SWATCH OF EACH COLOR SCHEDULED FOR APPROVAL BY OWNER.
 PAINT HM FRAMES TO MATCH ADJACENT WALLS (SEMI-GLOSS), U.N.O.
 ALL PAINT FINISH TO BE EGGSHELL, U.N.O. SEMI-GLOSS PAINT AT WOOD

5. ALL WALLS WITH WALLCOVERING TO BE LEVEL 5 FINISH.

APPLICATIONS, FLAT PAINT ON CEILINGS.

9. ALL GYP WALLS TO BE PAINTED IN WET LOCATIONS SHALL USE EPOXY TYPE PAINT.

10. CLEAN ALL FLOORING THAT IS TO REMAIN.
11. CONTRACTOR TO PROVIDE ALL FINISH SAMPLES FOR FINAL APPROVAL.
FINISH FLOOR PLAN KEY NOTES:

I) RECESSED EXISTING WALK OFF TO REMAIN.

2 PATCH EXTERIOR CONCRETE AS REQUIRED.

**SPECIFICATIONS** 

3) PATCH TILE WITH SALVAGED EXT I.

PROVIDE SCHLUTER SCHIENE STAINLESS STEEL AT ALL FLOOR TRANSITIONS. U.N.O. SCHLUTER SCHIENE-RADIOUS EDGE AT BAR AREA STAINLESS STEEL.

5) GC TO ENSURE LYT IS AT THE SAME HEIGHT AS TILE FLOORING.

FINISH LEGEND

ACT- ACOUSTICAL GRID CEILING
ACTI- CERTAINTEED PERFORMA VINYLROCK 1142-CRF-1, 2'X4'

CEILING TILE (WHITE). GRID - WHITE 15/16" OR APPROVED EQ.
ACT2- ARMSTRONG TECTUM DIRECT ATTACH CEILING PANEL.
PAINTED TO MATCH CEILING (PT2) 23-3/4" X 48". PANELS TO BE IN OPEN TO

STRUCTURE AREAS ONLY.

ACT3- DUNE, 2'X2' CEILING TILE, TEGULAR (PAINTED PT2).

GRID: BLACK 15/16" OR APPROVED EQ.

ACT4- FACT DESIGN, BRUT CEILING, 23.75" x 23.75", COLOR F:04, INSTALL INTO BLACK TGRID. FACTORY CUT HOLES FOR CAN LIGHTS.

REP CONTACT: KENNY BEALL kenny@beall-co.com

BI - 4" PAINT GRADE WOOD BASE PAINTED TO MATCH ADJACENT WALL PAINT

B2- 4" BLACK RUBBER BASE B3- INTEGRAL ROLL-UP 4" H EPOXY BASE

B4- 2" METAL BASE - KOFFLER SALES COMPANY, SMOOTH METAL WALL BASE MOLDING - #A531, 2" H, COLOR ALUMINUM, BLACK MATTE. OR APPROVED EQUAL.

CT- CARPET TILE
CTI- PATCRAFT; REVERSE, 10615 RENEWAL, 00510 RESTORE

INSTALL: STAGGER

CT2- GREEN TURF. COORDINATE WITH TENANT. CT3- BLUE TURF. COORDINATE WITH TENANT.

CG- CORNER GUARD
CGI- 8FT X 0.75IN X 0.75IN, .042IN THICK, PAINTABLE TEXTURED VINYL CORNER GUARD,
WITH SELF-STICK TAPE. PAINTED TO MATCH ADJACENT WALL.

EPX- EPOXY FLOORING

EPXI- DUR-A-FLEX EPOXY; POLYCRETE SLB W/ 'COLOR FAST' TOP COAT

COLOR: GREY NOTE: GC SHALL PROVIDE MOISTURE TESTING AS MANUF.

RECOMMENDED PRIOR TO INSTALL. PROVIDE ARCHITECT W/ VERIFICATION OF

EXT I - EXISTING TILE FLOORING

TESTING RESULTS.

FRP- fiberglass reinforced plastic paneling
FRPI- MARLITE, PEBBLE TEXTURE, COLOR PI00 WHITE (BOH)

FRP2- MARLITE, PEBBLE TEXTURE, COLOR P807 BLACK (BAR)

GW- GREEN WALL
GWI- DESIGNER PLANTS, NATURAL ARTIFICIAL BOXWOOD WALL 40X40 COMMERCIAL
GRADE UV RESISTANT.
GW2 - DESIGNER PLANTS, PREMIUM BRIGHT ARTIFICIAL BOXWOOD WALL 40X40

COMMERCIAL GRADE UV RESISTANT

LVT- LUXURY VINYL TILE

LVT1 - TBD - \$3.50 ALLOWANCE. NOT INCLUDING MARKUP, FREIGHT OR INSTALL.

FLOOR PAD MAY BE REQUIRED TO ENSURE LVT IS THE SAME HEIGHT AS ADJACENT EXISTING TILE.

1T - METAL

MTI - HOT ROLLED STEEL SHEET WITH MATTE SEALER ARCHITECT TO APPROVE FINAL SAMPLE. LASER CUT DESIGN BY GRAPHIC DESIGNER.

PTI- SHERWIN WILLIAMS; IRON ORE, SW7069 (FIELD WALLS TO BE EGGSHELL)
PT2- SHERWIN WILLIAMS; IRON ORE, SW7069 (FIELD CEILING TO BE FLAT)
PT3- SHERWIN WILLIAMS; MAJOR BLUE, SW6795 (WALLS TO BE EGGSHELL)
PT4- SHERWIN WILLIAMS; BLUE PLATE, SW6796 (WALLS TO BE EGGSHELL)
PT5- SHERWIN WILLIAMS; HUNT CLUB, SW6468 (WALLS TO BE EGGSHELL)
PT6- SHERWIN WILLIAMS; HUNT CLUB, SW6468 (CEILING TO BE FLAT)
PT7- SHERWIN WILLIAMS; CEILING BRIGHT WHITE, SW7007 (CEILING TO BE FLAT)

PT8- SHERWIN WILLIAMS; BLUE PLATE, SW6796 (CEILING TO BE FLAT)

PL- PLASTIC LAMINATE
PLI- ARBORITE, W449 EV, RIFT NATURAL OAK

PL2- FORMICA; FORMAL WALNUT, NATURAL GRAIN TEXTURE

QZ- QUARTZ
QZI- WILSONART; URBAN CLOUD, POLISHED (3CM BAR TOP)
QZ2- WILSONART; BODEGA Q1022, POLISHED (3CM/2CM PER LOCATION)

ILE
TI- VIRGINA TILE; CAESAR, LINK, CHAIN, 24X24,
INSTALL: STACKED GROUT;LATICRETE, 78 STERLING SILVER

PL3- FORMICA FENIX; JO724 COLOR BODY

T2- CONCEPT SURFACES; MILLENNIUM, MINERAL BLUE, 36X36
INSTALL: STACKED TO FOLLOW BAR SHAPE GROUT; TBD
T3- DALTILE; COLOR WHEEL, 6X6, ARCTIC WHITE 0190 (1) SEMI-GLOSS.

INSTALL: STACKED GROUT; MAPEI COLOR MATCH GROUT, BLUE PLATE, SW6796.
T4- DALTILE; COLOR WHEEL, 4X4, GALAXY 1469 (3) SEMI-GLOSS.
INSTALL: STACKED GROUT; TBD

T5- DALTILE; COLOR WHEEL, 6X6, BULLNOSE S4669, ARCTIC WHITE 0190 (I) SEMI-GLOSS. INSTALL: STACKED GROUT; MAPEI COLOR MATCH GROUT, BLUE PLATE, SW6796.

T6- DALTILE; COLOR WHEEL, 6X6, COVE BASE A3601, ARCTIC WHITE 0190 (I) SEMI-GLOSS. INSTALL: STACKED GROUT; MAPEI COLOR MATCH GROUT, BLUE PLATE, SW6796.

\*COORDINATE COVE BASE CORNERS. COVE CORNER RIGHT SCR3601 6X6, COVE CORNER LEFT SCL3601 6X6. ARCTIC WHITE 0190 (I) SEMI-GLOSS.

T7- VIRGINA TILE; CAESAR, LINK, CHAIN, 6x12 COVEBASE INSTALL: ALIGN WITH FLOOR TILE, GROUT; LATICRETE, 78 STERLING SILVER \*\*TOP SCHLUTER REQUIRED.

UPH- UPHOLSTERY UPH I - STINSON, MOCCASIN 2.0 MOC 236 SADDIE UPH2- STINSON, ALAMO ALM 25 NEPTUNE

WC- WALLCOVERING
WCI- WALLCOVERING PROVIDED BY GRAPHIC DESIGNER. INSTALLED BY GC.
GC TO PROVIDE LEVEL 5 FINISH.

WOOD
WDI- ANTHOLOGY WOODS; THINCLAD PANELING, LEGACY WHITE OAK CHARACTER
5"W, THICKNESS 3/8" - MICRO-BEVEL, LOW VOC-POLY PROTECTIVE TOPCOAT.
OR APPROVED EQUAL.
WD2- FLAT CUT WHITE OAK, STAINED TO MATCH PLI

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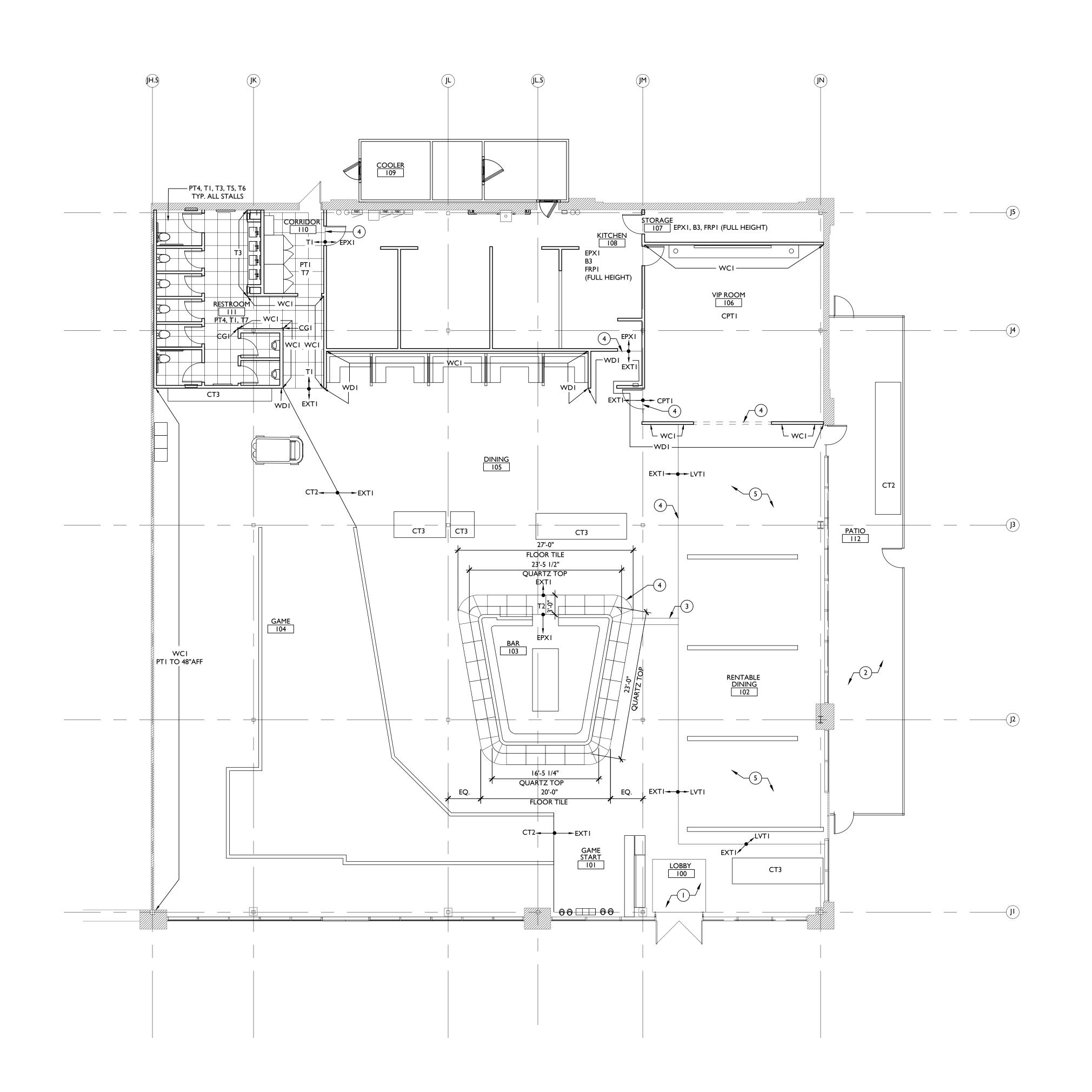
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A600

FINISH PLAN



# FURNITURE PLAN GENERAL NOTES:

I. ALL FREE STANDING FURNITURE BY TENANT. (BARSTOOLS, CHAIRS, TABLES, ETC.)

# FLOOR PLAN KEY NOTES:

- I FURNITURE SHOWN AS REFERENCE.
- 2 30X48 CLEAR FLOOR SPACE FOR ADA APPROACH TO BAR/TABLE.

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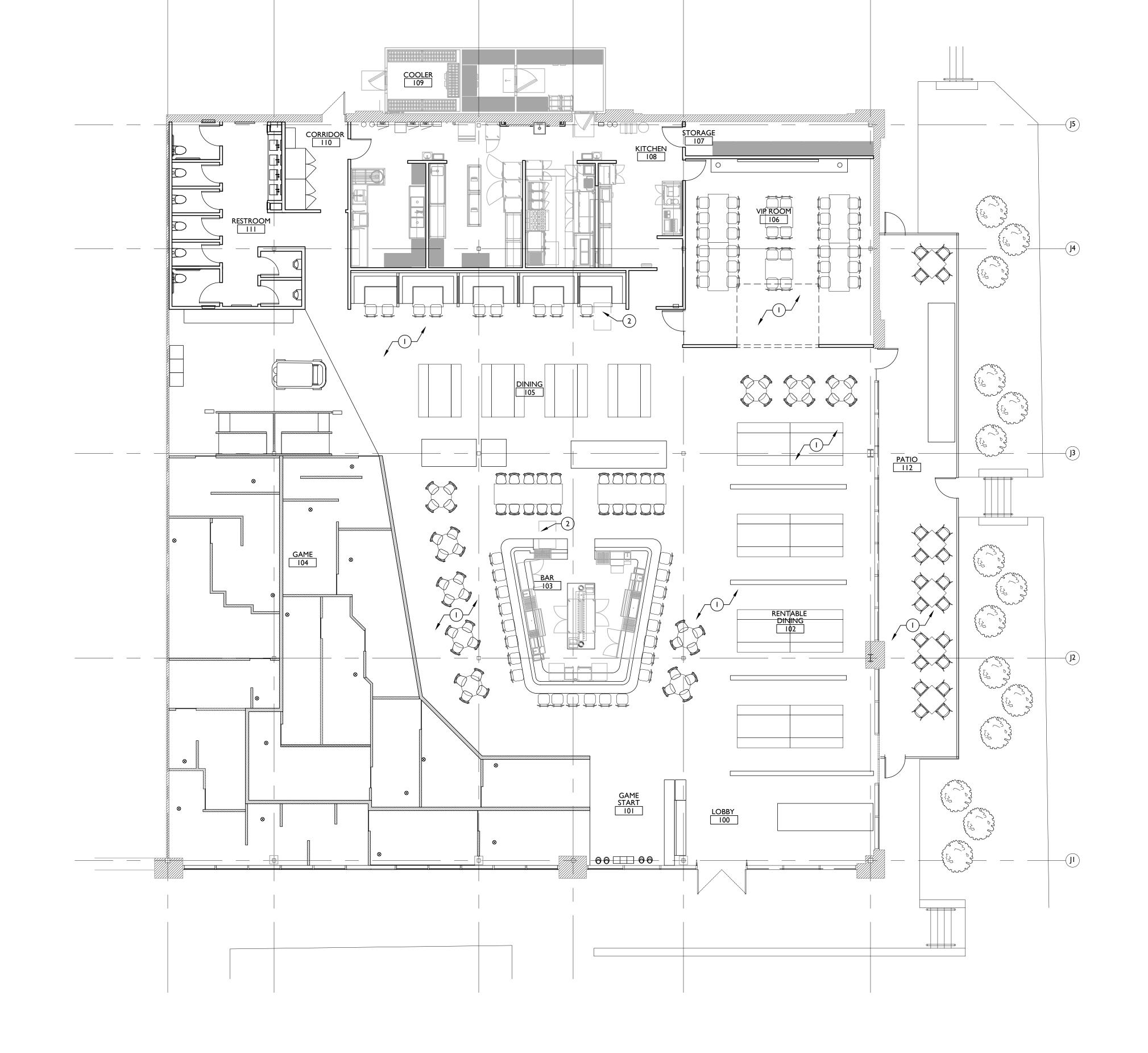
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issue	date
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	PERMIT SET

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FURNITURE PLAN

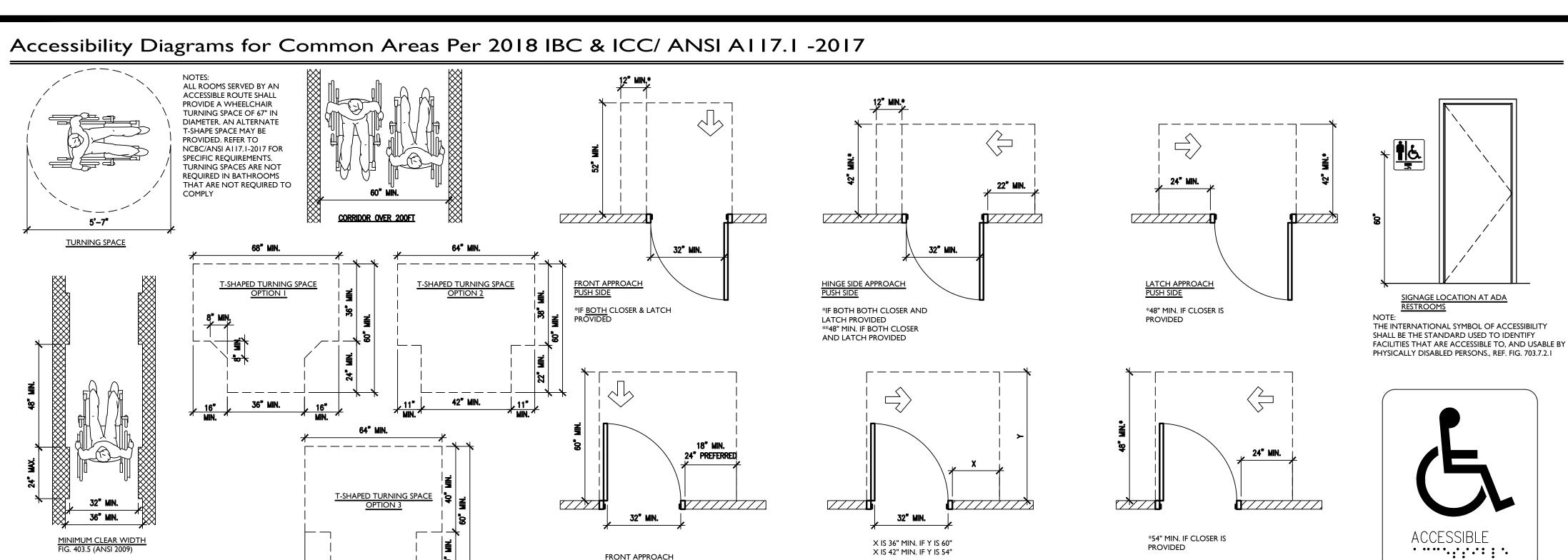


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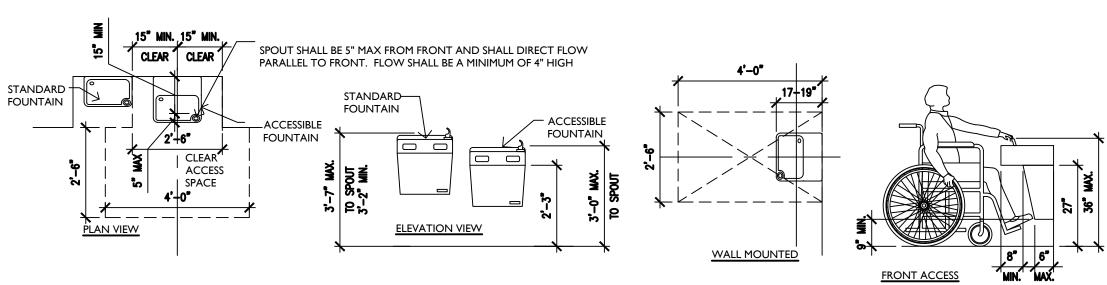
A700

SCHEDULES & **ACCESSIBILITY** 



I. TWO DOORS IN A SERIES SHALL BE 48" MIN. PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE. 2. IN BATHROOMS NOT REQUIRED TO COMPLY, MANEUVERING CLEARANCES ARE NOT REQUIRED ON THE BATHROOM SIDE OF THE DOOR.

Doors Clearances



PASSAGE (CONCEALED PIVOTS, PUSH/PULL BARS) PRIVACY (LEVER LOCK SET AND FLOOR STOP)

Water Fountain Clearances for ADA

General Signage

SCALE: NTS

MOUNTING HEIGHT SHALL BE 60 INCHES

LETTER HEIGHT SHALL BE 🔏 " - 2" MAX.

ABOVE THE FINISH FLOOR TO THE CENTER LINE OF THE SIGN.

ALL UPPERCASE RAISED 1/32" WITH CORRESPONDING BRAILLE.

MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECT OR STANDING WITHIN THE

WHERE PERMENANT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 703.3.

SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH

OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT

										DOOR AND FRAME SCHE	EDULE :
				DOOR				FRAME	HARDWARE	NOTES	⊬RE: SCHED
NUMBER		YP WD	SIZE		MATL	FINISH	MATL	FINISH	SET NO		RE: SCHED RE: SCHED RE: SCHED
100/01	EX	ST -	-	-	-	-	-	-	-	PANIC HARDWARE IS EXISTING TO REMAIN	
102/01	E	B 3-0"	9'-0"	-	-	-	-	-	HS-I	STOREFRONT SYSTEM IS TO MATCH ADJACENT STOREFRONT FINISHES	
106/01		3-0"	8'-0"	1"	ALUM	BLACK	ALUM	BLACK	HS-3		
106/02		3-0"	7'-0"	I 3/4"	НМ	PL2/PAINT	METAL	PAINT	HS-4	DOOR IS TO BLEND IN WITH WALLS. SEE ELEVATIONS.	<b>I</b> T    T
107/01	A	A 3-0"	7'-0"	I 3/4"	НМ	PAINT	METAL	PAINT	HS-4		HE SC   FIE
108/01	A	۹ 3-0"	7'-0"	I 3/4"	НМ	PAINT	METAL	PAINT	HS-4		] ~     ~       ~       ~
110/01	EX	ST -	-	-	-	PAINT	-	PAINT	-	PANIC HARDWARE IS EXISTING TO REMAIN	
110/02		-	-	-	-		WOOD	PAINT	-	TRIM CASING TO BE 1/4" WIDER THAN WALL ON ALL SIDES FOR WALLCOVERING EDGE PROTECTION. OPENING 7'-0"H X 3'-8"W	DOOR TYPE A DOOR TYPE B DOOR TYPE C DOOR TYPE D
111/01	A	A 3-0"	7'-0"	I 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS	
111/02	A	A 2-8"	7'-0"	I 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS	DOOR HARDWARE NOTES
111/03	A	A 2-8"	7'-0"	I 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS	
111/04	A	A 2-8"	7'-0"	I 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS	I. ALL EXISTING DOORS, FRAMES AND HARDWARE ARE TO REMAIN UNLESS NOTED OTHERWISE. 2. CONTRACTOR TO COORDINATE ROUGH OPENING REQUIREMENTS FOR ALL NEW DOOR OPENINGS
111/05	A	A 2-8"	7'-0"	I 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS	3. ALL DOORS SHALL HAVE ADA COMPLIANT HARDWARE AND ALLOW FREE EGRESS IN THE PATH OF EGRESS TRAVEL (TYP). 4. DOORS LESS THAN 90" HGT - 3 SETS OF MORTISE HINGES (5" T X 4-1/2" W). DOOR OVER 90" HGT - 4 SETS.
111/06	A	A 3-0"	7'-0"	I 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS	5. KNOCK DOWN FRAMES ARE ACCEPTABLE IF CONTRACTOR FILLS AND SANDS MITERED JOINTS PRIOR TO PAINT.
111/07	A	A 2-8"	7'-0"	I 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS	6. FINISH - MATTE BLACK FOR ALL HINGES AND HARDWARE U.N.O. 7. NEW GLASS STOREFRONT HARDWARE TO MATCH EXISTING.
111/08	<u> </u>	A 2-8"	7'-0"	I 3/4"	НМ	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS	8. DOORS TO COMPLY WITH ALL 7 CRITERIA OF SECTION 1010.1.9.9 & SECTION 1010.1.9.10 IN IBC 2018.  9. HARDWARE SETS: HS-I ENTRY / EXIT (EXIT DEVICE, THRESHOLD, KEYED LOCK) INTERIOR DOOR HS-2 PRIVACY (LEVER LATCH SET WITH OCCUPANCY LOCK. MATTE BLACK FINISH AND FLOOR STOP)

5**'**–7**"** 

3'-6"

Clearances and Reach for ADA

TURNING SPACE

COCKW Sample, Micsour 18/19/8024

ENGINEERS, LLC

8675 W 96th Street

Overland Park, KS 66210

(816) 333-4373

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MO #1999137647

PE-2022042437 UNREIN

08/13/2024

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### FIRE ALARM

FIRE DETECTION EQUIPMENT. DETECTOR TYPE: S=SMOKE, H=HEAT, F=FLAME, C=COMBINATION SMOKE/HEAT, CO=CO SENSOR D=DUCT MOUNTED - DUCT TYPE: "S"=SUPPLY PLENUM; "R"=RETURN PLENUM

INTERCOM FIRE ALARM PULL STATION

FIRE ALARM HORN - AUDIBLE ONLY - CEILING MOUNTED

FIRE ALARM - VISUAL ONLY

CEILING MOUNTED FIRE ALARM - VISUAL ONLY

FIRE ALARM - INTELLIGIBLE SPEAKER/VISUAL

FIRE ALARM HORN - AUDIBLE ONLY

CEILING MOUNTED FIRE ALARM - AUDIBLE/VISUAL

WALL MOUNTED 2-WAY HORN

CEILING MOUNTED 2-WAY HORN

PUSH BUTTON CONTROL SWITCH MAGNETIC OR ELECTRICAL DOOR HOLDER

CEILING MOUNTED SPEAKER

WALL MOUNTED SPEAKER

FIRE ALARM NOTE

CONNECT TO EXISTING LIMIT OF DEMOLITION

**MEP SHEET LIST** 

CONTINUATION

ELECTRICAL	
DE100	ELECTRICAL DEMOLITION PLAN
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES AND ONE-LINE DIAGF
EP100	ELECTRICAL NEW WORK PLAN
FIRE PROTECTION	ĺ
FP100	FIRE PROTECTION NEW WORK PLAN
FP500	FIRE PROTECTION DETAILS
LIGHTING	
DEL100	LIGHTING DEMOLITION PLAN
EL100	LIGHTING NEW WORK PLAN
MECHANICAL	
DM100	MECHANICAL DEMOLITION PLAN
M100	MECHANICAL NEW WORK PLAN
M500	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
MEP	
MEP000	MEP LEGENDS AND SYMBOLS
MEP001	MEP SPECIFICATIONS
MEP002	MEP SPECIFICATIONS
MEP101	MEP NEW WORK ROOF PLAN
PLUMBING	
DD 400	D D D

PLUMBING DEMOLITION PLAN

PLUMBING DETAILS

PLUMBING SCHEDULES

PLUMBING SCHEDULES

PLUMBING WASTE & VENT NEW WORK PLAN

PLUMBING DOMESTIC WATER AND GAS NEW WORK

PLUMBING DOMESTIC WATER PIPING ISOMETRIC

PLUMBING WASTE AND VENT PIPING ISOMETRIC

PLUMBING NATURAL GAS PIPING ISOMETRIC

### **LIGHTING**

UPPER CASE LETTER INDICATES FIXTURE TYPE, LOWER CASE LETTER INDICATES SWITCHING DESIGNATION & UPPER CASE LETTER WITH NUMBER INDICATES CIRCUIT NUMBER

RECESSED OR PENDANT MOUNT LIGHT WITH FIXTURE MARK.

LIGHT WITH FIXTURE MARK, WALL BRACKET RECESSED OR PENDANT MOUNT LIGHT FIXTURE ON EMERGENCY

POWER AS NOTED LIGHT WITH FIXTURE MARK, WALL BRACKET ON EMERGENCY POWER AS NOTED

12x48 LIGHT FIXTURE

12x48 LIGHT FIXTURE ON EMERGENCY POWER CIRCUITED SUCH THAT ONE LAMP ENERGIZES WHEN POWER IS LOST. PROVIDE EMERGENCY BATTERY BALLAST.

12x48 LIGHT FIXTURE ON EMERGENCY POWER

24x24 LIGHT FIXTURE

24x24 LIGHT FIXTURE ON EMERGENCY POWER CIRCUITED SUCH THAT ONE LAMP ENERGIZES WHEN POWER IS LOST. PROVIDE EMERGENCY BATTERY

24x24 LIGHT FIXTURE ON EMERGENCY POWER

24x48 LIGHT FIXTURE

12x48 LIGHT FIXTURE ON EMERGENCY POWER CIRCUITED SUCH THAT ONE LAMP ENERGIZES WHEN POWER IS LOST. PROVIDE EMERGENCY BATTERY

**→** 

24x48 LIGHT FIXTURE ON EMERGENCY POWER

12x96 LIGHT FIXTURE

12x96 LIGHT FIXTURE ON EMERGENCY POWER CIRCUITED SUCH THAT ONE LAMP ENERGIZES WHEN POWER IS LOST. PROVIDE EMERGENCY BATTERY BALLAST

UNDERCOUNTER STRIP LIGHT

TRACK LIGHT

EXIT LIGHT SHOWING SINGLE DIRECTION OF EGRESS AND FACE. PROVIDE EMERGENCY BATTERY BALLAST.

EXIT LIGHT SHOWING MULTIPLE DIRECTION OF EGRESS. PROVIDE EMERGENCY BATTERY BALLAST. EXIT LIGHT, WALL MOUNTED. SHOWING MULTIPLE DIRECTION OF EGRESS.

PROVIDE EMERGENCY BATTERY BALLAST. EXIT LIGHT, BACK WALL MOUNTED, SINGLE FACE (PROVIDE EMERGENCY

EXIT LIGHT, END WALL MOUNTED, SINGLE FACE, ARROW INDICATES DIRECTION OF EGRESS. (PROVIDE EMERGENCY BATTERY.) EXIT LIGHT, END WALL MOUNTED, DOUBLE FACE, ARROWS INDICATE DIRECTION

OF EGRESS. (PROVIDE EMERGENCY BATTERY.) EXIT LIGHT, CEILING MOUNTED, SINGLE FACE, ARROW INDICATES DIRECTION OF EGRESS. (PROVIDE EMERGENCY BATTERY.)

21 EXIT SIGN WITH EMERGENCY LIGHT

CEILING MOUNTED EMERGENCY LIGHT. LAMP ENERGIZES WHEN POWER

WALL MOUNTED EMERGENCY. LAMP ENERGIZES WHEN POWER IS LOST.

WALL SWITCH SINGLE POLE, CENTER 46" A.F.F. WALL SWITCH THREE - WAY, CENTER 46" A.F.F.

WALL SWITCH FOUR - WAY, CENTER 46" A.F.F.

WALL SWITCH WITH PILOT LIGHT, CENTER 46" A.F.F. KEY OPERATED WALL SWITCH, CENTER 46" A.F.F.

DIMMER SWITCH, CENTER 46" A.F.F.

MOTOR RATED WALL SWITCH COMBINATION OCCUPANCY SENSOR/SWITCH

OCCUPANCY SENSOR - CEILING MOUNTED OCCUPANCY SENSOR - WALL MOUNTED

INDICATES LIGHTING FIXTURE SWITCHING SCHEME NIGHT LIGHT - UNSWITCHED FOR 24-HOUR OPERATION AS NOTED

LIGHTING NOTE

CONNECT TO EXISTING

LIMIT OF DEMOLITION CONTINUATION

# **LEGEND**

#### **MECHANICAL** — CHWS— CHILLED WATER SUPPLY — CHWR— — HHWS— DUPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED.

CHILLED WATER RETURN HEATING HOT WATER SUPPLY —— HHWR—— HEATING HOT WATER RETURN —— RL —— REFRIGERANT LIQUID —— RS —— REFRIGERANT SUCTION REFRIGERANT DISCHARGE GAS -----RDG-----LOW PRESSURE CONDENSATE HIGH PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM ——HPS—— HIGH PRESSURE STEAM ----MPS-----MEDIUM PRESSURE STEAM  $\times \times \times \times \times \times$ PIPING TO BE DEMOLOISHED

FA RELIEF AIR

OA OUTSIDE AIR

RA RETURN AIR

SA SUPPLY AIR

**MECHANICAL** ABBREVIATIONS: EA EXHAUST AIR SIMPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED.

DUPLEX RECEPTACLE ON ISOLATED GROUND. CENTER 18" A.F.F. UNLESS NOTED.

QUADRUPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED. QUADRUPLEX GROUND FAULT INTERRUPTING RECEPTACLE. CENTER 18" A.F.F.

DUPLEX GROUNDING TYPE RECEPTACLE ON EMERGENCY POWER, CENTER

DUPLEX GROUNDING TYPE RECEPTACLE CENTERED 4" ABOVE BACK

FLOOR MOUNTED COMBINATION DATA/POWER RECEPTACLE

CEILING MOUNTED COMBINATION DATA/POWER RECEPTACLE

SPLASH, COUNTER OR SURFACE. COORDINATE WITH ARCHITECTURAL

GROUND FAULT INTERRUPTING RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED.

CASEWORK DOCUMENTS.

18" A.F.F. UNLESS NOTED.

SPECIAL RECEPTACLE AS NOTED

**ELECTRICAL** 

GANG BOX ON ISOLATED GROUND DATA OUTLET. CENTER 18" A.F.F. UNLESS NOTED. TELEPHONE OUTLET. CENTER 18" A.F.F. UNLESS NOTED.

FLUSH FLOOR DUPLEX GROUNDING TYPE RECEPTACLE

COMBINATION DATA/TELEPHONE OUTLET. CENTER 18" A.F.F. UNLESS NOTED

FIRE DEPARTMENT EMERGENCY TELEPHONE OUTLET DATA OUTLET IN FLOOR BOX

TELEPHONE OUTLET IN FLOOR BOX COMBINATION DATA/TELEPHONE OUTLET IN FLOOR BOX

SPECIAL OUTLET IN FLOOR BOX FLOOR MOUNTED POWER POLE GROUND

> PANELBOARD, TOP 84" A.F.F. DISCONNECT SWITCH, SIZE AND TYPE AS NOTED IN DISCONNECT SWITCH

SCHEDULE. MOTOR STARTER, SIZE AND TYPE AS NOTED.

MOTOR STARTER/DISCONNECT SWITCH, SIZE AND TYPE AS NOTED.

ELECTRIC THERMOSTAT/CONTROL, EQUIPMENT CONNECTION AS REQUIRED. CENTER 46" A.F.F.

**TRANSFORMER** WALL MOUNTED TELEVISION SINGLE GANG BOX. PROVIDE WITH 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

CEILING MOUNTED JUNCTION BOX FLOOR MOUNTED JUNCTION BOX

WALL MOUNTED JUNCTION BOX ⊢\_ J MOTOR SWITCH

MMOTOR DESK MOUNTED PUSH BUTTON CONTROL SWITCH

PUSH BUTTON CONTROL SWITCH MAGNETIC OR ELECTRICAL DOOR HOLDER

CARD READER POWER PACK

> PHOTOCELL CLOSED CIRCUIT TV

MULTI - OUTLET ASSEMBLY WITH OUTLETS 12" ON CENTER (SINGLE OR DOUBLE CIRCUIT AS INDICATED ON DRAWINGS). ABOVE COUNTER

HOME RUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2-#12 WIRE CIRCUIT WITH GROUND. A GREATER NUMBER OF WIRES IS INDICATED AS FOLLOWS: " 3-#12 WIRES WITH GROUND, "4-#12 WIRES WITH GROUND. CONDUIT SIZE PER N.E.C. IF HOME RUN IS ANNOTATED, SEE FEEDER AND BRANCH CIRCUIT SCHEDULE FOR SIZE.

WEATHER-PROOF

ELECTRICAL NOTE

CONNECT TO EXISTING LIMIT OF DEMOLITION

CONTINUATION

**GENERAL ANNOTATION ABBREVIATIONS** MEP MECHANICAL, ELECTRICAL, PLUMBING AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

# **LEGEND**

### <u>PLUMBING</u>

\_\_\_\_\_NG\_\_\_\_

PLUMBING ABBREVIATIONS:

-XXXXXXXX

CW DOMESTIC COLD WATER FCW FILTERED COLD WATER SCW SOFTENED COLD WATER HW DOMESTIC HOT WATER HWR HOT WATER RECIRCULATION THW TEMPERED HOT WATER THWR TEMPERED HOT WATER RECIRCULATION -----V----- V SANITARY VENT -----VBG------ VBG SANITARY VENT BELOW GRADE SANITARY \_\_\_\_\_S\_\_\_\_\_S SANITARY WASTE \_\_\_\_\_GW\_\_\_\_ GREASE WASTE -----CA----- CA COMPRESSED AIR ———CD— CONDENSATE DRAIN ----NG--NG NATURAL GAS SD STORM DRAIN -----OSD-----OSD OVERFLOW STORM DRAIN STORM DRAIN BELOW GRADE -----NPW----- NPW NON-POTABLE WATER -----SP----- SP SUMP PUMP DISCHARGE OR SEWAGE PUMP DISCHARGE

N.O. NORMALLY OPEN

IW INDIRECT WASTE

CLEAN OUT

WALL CLEAN OUT

FLOOR DRAIN

F.O. FAIL OPEN F.C FAIL CLOSE

N.C. NORMALLY CLOSED

NATURAL GAS ON ROOF

FLOOR OR EXTERIOR CLEAN OUT

PIPING TO BE DEMOLISHED

SLOT DIFFUSER SPIN-IN WITH DAMPER IN NECK AIR FLOW DIRECTION RETURN GRILLE/DUCT SUPPLY DIFFUSER/DUCT

EXHAUST GRILLE/DUCT MANUAL VOLUME DAMPER BACKDRAFT DAMPER FIRE DAMPER FIRE/SMOKE DAMPER MOTORIZED DAMPER THERMOSTAT

HUMIDISTAT BALL VALVE —————— GLOBE VALVE ———— CHECK VALVE BUTTERFLY VALVE BALANCING VALVE

TRIPLE DUTY/STOP-CHECK VALVE ELECTRICALLY ACTIVATED VALVE PRESSURE REDUCING VALVE PRESSURE RELIEF VALVE

— COOLING TOWER HAT/BALANCE VALVE TEMPERATURE INDICATOR PRESSURE INDICATOR

MANUAL AIR VENT **ELBOW DOWN** ○+--- ELBOW UP

PETE'S PLUG

FLEXIBLE PIPE CONNECTION SUCTION DIFFUSER STRAINER

✓ VAV \— EQUIPMENT TYPE 4 /— EQUIPMENT ID - TERMINAL DEVICE ID

22x22 NECK SIZE - DESIGN AIRFLOW (CFM) MECHANICAL NOTE CONNECT TO EXISTING

LIMIT OF DEMOLITION

CONTINUATION

FLOOR SINK HOSE BIBB WALL HYDRANT VENT THROUGH ROOF **BACKFLOW PREVENTER** STRAINER  $\forall$ BALL VALVE -CHECK VALVE GATE VALVE  $\longrightarrow$ PLUG VALVE ELECTRICALLY ACTIVATED VALVE PRESSURE REDUCING VALVE FLOW CONTROL VALVE ——XX  $\longrightarrow$ 

WATER METER **EXPANSION JOINT** ANCHOR FLOW ARROW PIPE REDUCTION WATER HAMMER ARRESTOR TEMPERATURE INDICATOR PRESSURE INDICATOR PETE'S PLUG VACUUM RELIEF VALVE C+--- ELBOW DOWN O+--- TEE UP FLEXIBLE PIPE CONNECTION PLUMBING FIXTURE TAG DRN01

DETAIL NUMBER **DETAIL TAG** SHEET DETAIL IS ON PLUMBING NOTE

CONNECT TO EXISTING LIMIT OF DEMOLITION

CONTINUATION

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rev issue PERMIT SET 07.29.2024 24.02. Craft Putt Lee's Summit

MEP LEGENDS AND SYMBOLS

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL BUILDING, MECHANICAL, PLUMBING CODES NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION CODE, EPA REGULATIONS, AND OCCUPATIONAL SAFETY AND HEALTH ACT. APPLICABLE CODES:
  - 2018 INTERNATIONAL BUILDING CODE (IBC)
  - 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL PLUMBING CODE (IPC) PLUMBING CODE
  - 2017 NATIONAL ELECTRIAL CODE (NEC) 2018 INTERNATIONAL FUEL GAS CODE (IFGC) 2018 INTERNATIONAL FIRE CODE (IFC)
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS, AND ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL PROTECT ALL EXISTING WORK TO REMAIN, AND SHALL REPAIR ANY DAMAGED INCIDENTAL TO PERFORMANCE OF NEW
- ACCEPTANCE OF WORK SHALL BE SUBJECT TO OWNER'S REPRESENTATIVE APPROVAL OF WORK IN PLACE AS WELL AS SHOP DRAWINGS AND SAMPLES OF MATERIALS AND EQUIPMENT WHICH SHALL BE CHECKED BY CONTRACTOR BEFORE SUBMITTAL.
- CONTRACTOR SHALL KEEP PREMISES OF WORK AREA CLEAN DAILY, CLEAN AT PROJECT COMPLETION, AND SHALL REMOVE ALL
- CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH EXISTING CONDITIONS BEFORE STARTING NEW WORK. CONCEALED CONDITIONS SHALL BE ADDRESSED WITH DUE CAUTION SUCH THAT UTILITIES AND SYSTEMS ARE PROTECTED.
- CONTRACTOR SHALL WARRANTY ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE AND SHALL REPAIR OR REPLACE ANY DEFECTIVE WORK INCLUDING MATERIAL, LABOR AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. BUT ARE TO INDICATE THE INTENT OF THIS WORK.
- ALL PERMITS, LICENSES AND FEES THAT ARE REQUIRED BY GOVERNING AUTHORITIES FOR THE PERFORMANCE OF MECHANICAL AND
- ELECTRICAL WORK SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT IN SUCH A MANNER AS TO CONTROL THE TRANSMISSION OF NOISE AND VIBRATION FROM ANY INSTALLED EQUIPMENT OR SYSTEM, SO THE SOUND LEVEL SHALL NOT EXCEED NC35, IN ANY OCCUPIED SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY OBJECTIONABLE NOISE IN ANY OCCUPIED AREA DUE TO IMPROPERLY INSTALLED EQUIPMENT.
- FIXTURES, APPLIANCES, EQUIPMENT AND MATERIALS, WHICH ARE SUBJECT TO UNDERWRITER'S LABORATORY TESTS, SHALL BEAR SUCH
- MANUFACTURER'S LISTED IN THE EQUIPMENT SCHEDULES ARE INTENDED TO ESTABLISH QUALITY ONLY AND DOES NOT LIMIT EQUAL PRODUCTS BY OTHER MANUFACTURERS. MECHANICAL AND ELECTRICAL DESIGNS ARE BASED ON THE REQUIREMENTS FOR THE SPECIFIED MANUFACTURERS LISTED ON THE EQUIPMENT SCHEDULES. CONDUIT, DISCONNECTS, MOTOR STARTERS, BREAKERS, FUSES AND WIRE SIZES ARE SELECTED ON BASIS OF SCHEDULED EQUIPMENT. INCREASED CURRENT REQUIREMENTS NECESSITATING LARGER WIRE, BREAKERS, SWITCHES, ETCETERA, TO ACCOMMODATE ANY ALTERNATE OR SUBSTITUTE MANUFACTURER'S EQUIPMENT, OTHER THAN AS SHOWN ON DRAWINGS SHALL BE PROVIDED WITHOUT ANY INCREASE IN CONTRACT PRICE BY CONTRACTOR FURNISHING THE EQUIPMENT.
- FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED, AND MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION.
- WORK INSTALLED BEFORE COORDINATING WITH OTHER TRADES CAUSING INTERFERENCE WITH WORK OF SUCH OTHER TRADES SHALL BE CHANGED TO CORRECT SUCH CONDITION WITHOUT INCREASE IN CONTRACT PRICE AND AS DIRECTED BY THE ARCHITECT.
- WHERE SPECIFIC DETAILS AND DIMENSIONS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL TAKE MEASUREMENTS AND MAKE LAYOUTS FOR THE PROPER INSTALLATION OF THE WORK AND COORDINATION WITH ALL OTHER WORK ON THE PROJECT.

## DEFINITIONS:

- "PIPING" INCLUDES, IN ADDITION TO PIPE, ALL FITTINGS, VALVES, SLEEVES, HANGERS, AND OTHER SUPPORTS AND ACCESSORIES
- "CONCEALED" MEANS HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, OR IN CRAWL SPACES.
- "EXPOSED" MEANS NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
- THE WORDS "FURNISH AND INSTALL", "PROVIDE", "FURNISH", "INSTALL", OR EQUIVALENT WORDS ARE USED OR ARE UNDERSTOOD. TO MEAN THE CONTRACTOR SHALL FURNISH AND COMPLETELY INSTALL THE SYSTEM, SERVICE, EQUIPMENT, OR MATERIAL NAMED. TOGETHER WITH OTHER ASSOCIATED DEVICES, EQUIPMENT, MATERIAL, WIRING, PIPING, ETCETERA AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION, AND CONFORMING TO THE MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.
- IT IS THE INTENT OF THE MECHANICAL SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR

# MECHANICAL SPECIFICATIONS

- 1.1 DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED. SIZES SHOWN ON DRAWINGS FOR RECTANGULAR DUCTS ARE AIR OPENING SIZES. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS. FURNISH AND INSTALL ALL STEEL MEMBERS AND ACCESSORIES NECESSARY TO PROVIDE A COMPLETE AND FINISHED INSTALLATION. INSTALL ROUND DUCTS IN MAXIMUM PRACTICAL LENGTHS. INSTALL DUCTS WITH FEWEST POSSIBLE JOINTS. INSTALL FACTORY- OR SHOP-FABRICATED FITTINGS FOR CHANGES IN DIRECTION, SIZE, AND SHAPE AND FOR BRANCH CONNECTIONS. CONSTRUCT TEES, BENDS, AND ELBOWS WITH RADIUS MINIMUM 1-1/2 TIMES WIDTH OF DUCT ON CENTER LINE.
- FABRICATE DUCTS WITH GALVANIZED SHEET STEEL. TYPE 1 HOOD EXHAUST DUCT TO BE WELDED MINIMUM 18-GAUGE OR 20-GAUGE
- STAINLESS STEEL. SUPPLY DUCT PRESSURE CLASS:
  - DUCTS BETWEEN CONSTANT-VOLUME AIR-HANDLING UNITS AND AIR OUTLETS: POSITIVE 2-INCH WATER GAUGE (W.G.) (500
  - DUCTS CONNECTED TO EQUIPMENT NOT LISTED ABOVE: POSITIVE 2-INCH WG (500 PASCAL)
- RETURN DUCT PRESSURE CLASS: DUCTS CONNECTED TO AIR HANDLING UNITS AND AIR INLETS: POSITIVE OR NEGATIVE 2-INCH WG (500 PA). LINER: (AHU SUPPLY AND RETURN DUCTS FOR A TOTAL OF 10 FEET)
  - SUPPLY AIR DUCTS: FIBROUS GLASS, TYPE I, 1 INCH (25 MILLIMETER) THICK. RETURN AIR DUCTS: FIBROUS GLASS, TYPE I, 1 INCH (25 MILLIMETER) THICK.

#### 1.3 DIFFUSERS, REGISTERS, AND GRILLES

- SOURCE QUALITY CONTROL VERIFICATION OF PERFORMANCE: RATE DIFFUSERS, REGISTERS, AND GRILLES ACCORDING TO ASHRAE 70, "METHOD OF TESTING FOR RATING THE PERFORMANCE OF AIR OUTLETS AND INLETS."
- INSTALLATION
- INSTALL DIFFUSERS, REGISTERS, AND GRILLES LEVEL AND PLUMB. INSTALL DIFFUSERS, REGISTERS, AND GRILLES WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE
- AND MAINTENANCE OF DAMPERS AND AIR EXTRACTORS AFTER INSTALLATION, ADJUST DIFFUSERS, REGISTERS, AND GRILLES TO AIR PATTERNS INDICATED, OR AS DIRECTED, BEFORE STARTING AIR BALANCING.

#### TEST. BALANCE AND START-UP

- START-UP OF HEATING/COOLING SYSTEMS, INCLUDING PACKAGED ROOFTOP UNITS WITH CONTROL SYSTEMS.
- TEST AND BALANCE OF EXHAUST AND HEATING/COOLING AIR SYSTEMS INCLUDING EACH AND EVERY DIFFUSER. GRILLE AND REGISTER AT AIR VOLUMES INDICATED ON THE DRAWINGS.
- ADJUST ROOFTOP UNITS AND EXHAUST FANS TO DELIVER TOTAL INDICATED AIR FLOWS WITHIN THE MAXIMUM ALLOWABLE FAN SPEED LISTED BY THE MANUFACTURER.
- SUPPLY, RETURN, EXHAUST FANS AND EQUIPMENT ALONG WITH AIR OUTLETS AND INLETS SHALL BE ADJUSTED TO WITHIN PLUS OR MINUS 10 PERCENT.
- PREPARE AND SUBMIT FOR RECORD A REPORT OF THE SYSTEM TEST AND BALANCE INDICATING FINAL SETTINGS OF ALL EXHAUST FANS, HEATING/COOLING EQUIPMENT, CONTROL DAMPERS, DIFFUSERS, GRILLES AND REGISTERS. PREPARE AND SUBMIT FOR RECORD A PRE-CONSTRUCTION REPORT OF THE EXISTING SYSTEMS TEST AND BALANCE INDICATING
- MOTOR SIZES: MINIMUM SIZE AS INDICATED. IF NOT INDICATED, LARGE ENOUGH SO DRIVEN LOAD WILL NOT REQUIRE MOTOR TO OPERATE IN SERVICE FACTOR RANGE ABOVE 1.0. ENCLOSURE TYPE: TOTALLY ENCLOSED, FAN COOLED

## 1.6 HANGERS AND SUPPORTS

 A. EQUIPMENT SUPPORTS DESCRIPTION: WELDED, SHOP- OR FIELD-FABRICATED EQUIPMENT SUPPORT MADE FROM STRUCTURAL CARBON-STEEL

FINAL SETTINGS OF ALL EXHAUST FANS, HEATING/COOLING EQUIPMENT, CONTROL DAMPERS, DIFFUSERS, GRILLES AND REGISTERS.

EQUIPMENT SUPPORTS SHALL HAVE INTEGRAL BASE PLATE, WOOD NAILER, AND 18 GAUGE GALVANIZED STEEL FLASHING

#### B. MISCELLANEOUS MATERIALS

- STRUCTURAL STEEL: ASTM A 36/A 36M, CARBON-STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZED. GROUT: ASTM C 1107, FACTORY-MIXED AND -PACKAGED, DRY, HYDRAULIC-CEMENT, NONSHRINK AND NONMETALLIC GROUT: SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.
  - PROPERTIES: NONSTAINING, NONCORROSIVE, AND NONGASEOUS
- DESIGN MIX: 5000-POUNDS PER SQUARE-INCH (PSI), 28-DAY COMPRESSIVE STRENGTH.

- 1.7 CENTRIFUGAL ROOF VENTILATORS HOUSING: REMOVABLE, SPUN-ALUMINUM, DOME TOP AND OUTLET BAFFLE: SQUARE, ONE-PIECE, ALUMINUM BASE WITH VENTURI
  - INLET CONE. UPBLAST UNITS: PROVIDE SPUN-ALUMINUM DISCHARGE BAFFLE TO DIRECT DISCHARGE AIR UPWARD, WITH RAIN AND SNOW
  - HINGED SUBBASE: GALVANIZED-STEEL HINGED ARRANGEMENT PERMITTING SERVICE AND MAINTENANCE.
  - FAN WHEELS: ALUMINUM HUB AND WHEEL WITH BACKWARD-INCLINED BLADES.
  - BELT DRIVES (WHERE APPLICABLE): RESILIENTLY MOUNTED TO HOUSING.
  - FAN SHAFT: TURNED, GROUND, AND POLISHED STEEL; KEYED TO WHEEL HUB.
  - SHAFT BEARINGS: PERMANENTLY LUBRICATED, PERMANENTLY SEALED, SELF-ALIGNING BALL BEARINGS. PULLEYS: CAST-IRON, ADJUSTABLE-PITCH MOTOR PULLEY.
  - FAN AND MOTOR ISOLATED FROM EXHAUST AIRSTREAM. ACCESSORIES:
  - VARIABLE-SPEED CONTROLLER: SOLID-STATE CONTROL TO REDUCE SPEED FROM 100 TO LESS THAN 50 PERCENT. DISCONNECT SWITCH: NONFUSIBLE TYPE, WITH THERMAL-OVERLOAD PROTECTION MOUNTED INSIDE OR OUTSIDE FAN HOUSING, FACTORY WIRED THROUGH AN INTERNAL ALUMINUM CONDUIT.
  - BIRD SCREENS: REMOVABLE, 1/2-INCH (13-MM) MESH, ALUMINUM OR BRASS WIRE.
  - DAMPERS: COUNTERBALANCED, PARALLEL-BLADE, BACKDRAFT DAMPERS MOUNTED IN CURB BASE; FACTORY SET TO CLOSE WHEN FAN STOPS. DAMPER SHALL BE A MINIMUM OF 18" FROM THE FAN INLET. DAMPER SHALL HAVE A MAXIMUM LEAKAGE RATE OF 20 CFM /FT<sup>2</sup> AT 1.0 IN.W.G TESTED ACCORDING TO AMCA STANDARD 500. ROOF CURBS: GALVANIZED STEEL; MITERED AND WELDED CORNERS; 1-1/2-INCH- (40-MM-) THICK, RIGID, FIBERGLASS INSULATION
  - ADHERED TO INSIDE WALLS; AND 1-1/2-INCH (40-MM) WOOD NAILER. SIZE AS REQUIRED TO SUIT ROOF OPENING AND FAN BASE. CONFIGURATION: COORDINATE WITH EXISTING ROOF CONFIGURATION.
    - OVERALL HEIGHT: 18 INCHES (FIELD VERIFY).
    - SOUND CURB: CURB WITH SOUND-ABSORBING INSULATION. PITCH MOUNTING: MANUFACTURE CURB FOR ROOF SLOPE.
  - METAL LINER: GALVANIZED STEEL.
    - MOUNTING PEDESTAL: GALVANIZED STEEL WITH REMOVABLE ACCESS PANEL. VENTED CURB: UNLINED WITH LOUVERED VENTS IN VERTICAL SIDES.
  - ITEMS WITH HINGED BASES SHALL BE FURNISHED WITH PADLOCK HASPS FOR PADLOCKING. THE ANCHORING OF THE HASP COMPONENTS SHALL BE SUCH THAT THEY CANNOT BE REMOVED WHEN IN THE LOCKED POSITION.

# FIRE ALARM SPECIFICATIONS

- 1.1 FIRE ALARM SYSTEM NONCODED, ADDRESSABLE SYSTEM, WITH MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY.
  - FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES: SPRINKLER SYSTEM ACTIVATION.
  - DUCT SMOKE DETECTORS.
  - KITCHEN EXHAUST HOOD.
  - ACTIVATION OF MANUAL PULL STATION. FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:
  - CONTINUOUSLY OPERATE ALARM-NOTIFICATION APPLIANCES.
  - IDENTIFY ALARM AT THE EXISTING FIRE-ALARM CONTROL UNIT.
  - SWITCH HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT CONTROLS TO FIRE-ALARM MODE.
  - SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS: INITIATE NOTIFICATION APPLIANCE AND ANNUNCIATE AT FIRE-ALARM
  - MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS. COMBINATION DEVICES: FACTORY-INTEGRATED AUDIBLE AND VISIBLE DEVICES IN A SINGLE-MOUNTING ASSEMBLY EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.
  - VISIBLE NOTIFICATION APPLIANCES: XENON STROBE LIGHTS COMPLY WITH UL 1971. WITH CLEAR OR NOMINAL WHITE POLYCARBONATE LENS MOUNTED ON AN ALUMINUM FACEPLATE. THE WORD "FIRE" IS ENGRAVED IN MINIMUM 1-INCH- (25-
  - MM-) HIGH LETTERS ON THE LENS. MANUAL FIRE-ALARM BOXES GENERAL REQUIREMENTS FOR MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES MUST BE FINISHED IN RED WITH
    - MOLDED, RAISED-LETTER OPERATING INSTRUCTIONS IN CONTRASTING COLOR; MUST SHOW VISIBLE INDICATION OF OPERATION; AND MUST BE MOUNTED ON RECESSED OUTLET BOX. IF INDICATED AS SURFACE MOUNTED, PROVIDE MANUFACTURER'S SURFACE BACK BOX.

NOTIFICATION APPLIANCES: CONNECTED TO NOTIFICATION APPLIANCE SIGNAL CIRCUITS, ZONED AS INDICATED, EQUIPPED FOR

- DOUBLE-ACTION MECHANISM REQUIRING TWO ACTIONS TO INITIATE ALARM, PULL-LEVER TYPE; WITH INTEGRAL ADDRESSABLE MODULE ARRANGED TO COMMUNICATE MANUAL-STATION STATUS (NORMAL, ALARM, OR TROUBLE)
- STATION RESET: KEY- OR WRENCH-OPERATED SWITCH.
- INDOOR PROTECTIVE SHIELD: FACTORY-FABRICATED, CLEAR PLASTIC ENCLOSURE HINGED AT TOP TO PERMIT LIFTING FOR ACCESS TO INITIATE ALARM.

#### ABLE TO BE USED IN INDOOR AREAS. TESTS AND INSPECTIONS

- VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING.
- INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY NFPA 72 IN ITS "COMPLETION DOCUMENTS, PREPARATION" TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER.
- COMPLY WITH "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION OF THE "INSPECTION. TESTING AND MAINTENANCE" CHAPTER IN NFPA 72: RETAIN THE "INITIAL/REACCEPTANCE" COLUMN AND
- LIST ONLY THE INSTALLED COMPONENTS. SYSTEM TESTING: COMPLY WITH "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
- TEST AUDIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PERFORM THE TEST USING A PORTABLE SOUND-LEVEL METER COMPLYING WITH TYPE 2 REQUIREMENTS IN ANSI S1.4.
- TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. FACTORY-AUTHORIZED SERVICE REPRESENTATIVE SHALL PREPARE THE "FIRE ALARM SYSTEM RECORD OF COMPLETION" IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER IN NFPA 72 AND THE "INSPECTION AND TESTING FORM" IN THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
- FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
- PREPARE TEST AND INSPECTION REPORTS AND SUBMIT COPIES FOR RECORD. TFX DEVICES ARE NOT ALLOWED. ALL NEW DEVICES, DETECTORS, PULL STATIONS, ETC., CONNECTED TO THE CITY SYSTEM, SHALL BE IDNET DEVICES, WIRED BACK TO THE NEAREST IDNET PANEL. ALL INSTALLATIONS SHALL MEET ALL APPLICABLE CODES.

#### 1.2 PATHWAYS

- CONDUIT AND BOXES: COMPLY WITH REQUIREMENTS IN DIVISION 26 SECTION "RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS. "FLEXIBLE METAL CONDUIT SHALL NOT BE USED.
- OUTLET BOXES SHALL BE NO SMALLER THAN 2 INCHES (50 MM) WIDE, 3 INCHES (75 MM) HIGH, AND 2-1/2 INCHES (64 MM)
- MINIMUM CONDUIT SIZE IS 3/4" DIAMETER.

#### 1.3 FIRE ALARM WIRE AND CABLE

- GENERAL WIRE AND CABLE REQUIREMENTS: NRTL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760. SIGNALING LINE CIRCUITS: TWISTED, SHIELDED PAIR, NOT LESS THAN NO. 18 AWG.
- CIRCUIT INTEGRITY CABLE: TWISTED SHIELDED PAIR, NFPA 70, ARTICLE 760, CLASSIFICATION CI, FOR POWER-LIMITED FIRE ALARM SIGNAL SERVICE TYPE FPL. NRTL LISTED AND LABELED AS COMPLYING WITH UL 1424 AND UL 2196 FOR A 2-HOUR
- NON-POWER-LIMITED CIRCUITS: SOLID-COPPER CONDUCTORS WITH 600-V RATED, 75 DEGREES CELSIUS, COLOR-CODED
- LOW-VOLTAGE CIRCUITS: NO. 16 AWG, MINIMUM. LINE-VOLTAGE CIRCUITS: NO. 12 AWG, MINIMUM.

# **ELECTRICAL SPECIFICATIONS**

- THE ENTIRE ELECTRICAL SYSTEM SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE AND ANY OTHER APPLICABLE LOCAL CODES.
- GROUNDING SHALL CONSIST OF COPPER CONDUCTORS IN CONDUIT, GROUNDING AND BONDING SHALL COMPLY WITH NEC ARTICLE 250, ALL
- METALLIC RACEWAYS SHALL BE GROUNDED.
- ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF.

ELBOWS AND RISERS TO ABOVE GRADE OR SLAB.

- ALL WIRE SHALL BE THWN FOR ALL EXTERIOR OR POSSIBLE WET LOCATIONS.
- ALL WIRE SHALL BE THWN OR THHN FOR ALL INTERIOR OR DRY LOCATIONS ALL BUILDING WIRE SHALL BE 600 VOLTS COPPER.
- THE MINIMUM WIRE SIZE FOR POWER AND LIGHTING SHALL BE #12 AWG., FOR CONTROLS #14 AWG. THE USE OF ROMEX SHALL NOT BE PERMITTED.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRE ROUTING. ANY LENGTHS EXCEEDING 75' SHALL HAVE VOLT LOSS CALCULATED AND WIRE SIZES ADJUSTED AS REQUIRED BY CODE.
- COLOR CODING
- 208Y/120V: BLACK, RED, BLUE, WHITE. PROVIDE WITH SOLID GREEN GROUNDING CONDUCTOR 480Y/277V: YELLOW (PHASE A), BROWN (PHASE B), ORANGE (PHASE C), GRAY (NEUTRAL). PROVIDE WITH SOLID GREEN
- GROUNDING CONDUCTOR.
- RACEWAYS: ALL UNDERSLAB OR BELOW GRADE RACEWAYS SHALL BE SCHEDULE 40 PVC CONDUITS WITH RIGID GALVANIZED STEEL "RGS"
- ALL CONDUITS INSIDE BUILDING SHALL BE 1/2" ELECTRICAL METALLIC TUBING "EMT" MINIMUM. FLEXIBLE METAL CONDUIT MAY BE USED FOR FINAL CONNECTION TO LIGHT FIXTURES AND MOTORS 6' MAXIMUM LENGTH ALLOWED. RIGID OR INTERMEDIATE GALVANIZED STEEL CONDUIT SHALL BE USED FOR ALL EXTERIOR APPLICATIONS ABOVE GRADE.
- SEALTITE SHALL BE USED FOR ALL EXTERIOR CONNECTIONS TO EQUIPMENT ALL RACEWAYS SHALL BE SUPPORTED FROM ROOF STRUCTURAL MEMBERS PER N.E.C. NO RACEWAYS SHALL BE ATTACHED
- ALL RACEWAYS SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS OR FLOORS.
- PROVIDE PLASTIC BUSHINGS AT OPEN ENDS OF ALL CONDUITS WITH LOW VOLTAGE WIRING. SEAL ALL PENETRATIONS THROUGH WALLS OR FLOOR WITH APPROPRIATE CAULK OR GROUT. SEAL PENETRATIONS THROUGH FIRE
  - WIRING PULLING EQUIPMENT: PROVIDE POLYETHYLENE CORDS FOR PULLING WIRE.

#### PROVIDE PULLING WIRES FOR TELEPHONE AND OTHER EMPTY CONDUIT SYSTEMS REQUIRED, WITHOUT SPLICES AND WITH AMPLE EXPOSED LENGTHS AT EACH END.

- A. ALL LIGHT FIXTURES SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO LIGHT FIXTURE SCHEDULE FOR ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO SUPPORT LIGHT FIXTURES. LIGHT FIXTURES IN LAY-IN CEILING SHALL BE
- INDEPENDENTLY SUPPORTED WITH WIRE AT ALL FOUR CORNERS OF FIXTURE. REPLACE DEFECTIVE LAMPS, LED ARRAYS, DRIVERS AND BALLASTS PRIOR TO PROJECT COMPLETION.

RATED WALLS, FLOORS, OR CEILINGS WITH UL LISTED FIRE STOP COMPOUND.

#### 1.7 DEVICES

POWER EQUIPMENT SHALL BE NEW AND BEAR A UL. LABEL. COORDINATE WIRING DEVICE COLORS WITH ARCHITECT, 20 AMP FEDERAL SPECIFICATION GRADE WITH STAINLESS STEEL COVER PLATES. COORDINATE FINISH COLOR WITH ARCHITECT. ALL SWITCHES, RECEPTACLES, ETC. SHALL BE HEAVY-DUTY, SPECIFICATION

#### 1.8 DISCONNECT SWITCHES

- MATERIAL: DISCONNECT SWITCHES SHALL BE NEMA TYPE HD (HEAVY DUTY) QUICK-MAKE, QUICK-BREAK DISCONNECT SWITCHES: NOT FURNISHED BY OTHERS WITH EQUIPMENT, OR WHERE REQUIRED BY CODE. SWITCHES SHALL BE NON-FUSIBLE UNLESS
- MOTOR CIRCUIT DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED TO MATCH THE MOTOR LOAD. NON-FUSIBLE DISCONNECTS SHALL BE RATED 30 AMPS UNLESS OTHERWISE INDICATED.
- ACCESSORIES: SWITCH ENCLOSURES SHALL BE RATED NEMA 3R FOR OUTDOOR AND WET LOCATIONS, UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE DRAWINGS. ELECTRICAL INTERLOCK: SWITCH SHALL BE FURNISHED WITH INTERLOCK CONTACTS.
- CONTROLS: SWITCHES SHALL HAVE A DUAL COVER INTERLOCK TO PREVENT DOOR OPENING WITH SWITCH CLOSED AND TO PREVENT CLOSING SWITCH WITH DOOR OPEN. SWITCH SHALL BE PAD LOCKABLE IN "OPEN" AND "CLOSED" POSITION.

#### 1.9 DISTRIBUTION EQUIPMENT:

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING AGENCY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND
- APPLICATION. COMPLY WITH NEMA PB 1
- COMPLY WITH NFPA 70. PANELBOARD PHASE, NEUTRAL, AND GROUND BUSES:
  - MATERIAL: TIN-PLATED ALUMINUM PLATING MUST RUN ENTIRE LENGTH OF BUS.
- BUS MUST BE FULLY RATED FOR ENTIRE LENGTH. INTERIORS MUST BE FACTORY ASSEMBLED INTO UNIT. REPLACING SWITCHING AND PROTECTIVE DEVICES MAY NOT
- DISTURB ADJACENT UNITS OR REQUIRE REMOVING MAIN BUS CONNECTORS. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUNDING CONDUCTORS; BONDED

#### CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES. MATERIAL: TIN-PLATED ALUMINUM.

- TERMINATIONS MUST ALLOW USE OF 75 DEG C RATED CONDUCTORS WITHOUT DERATING. SIZE: LUGS SUITABLE FOR INDICATED CONDUCTOR SIZES, WITH ADDITIONAL GUTTER SPACE, IF REQUIRED, FOR LARGER
- MAIN AND NEUTRAL LUGS: COMPRESSION TYPE, WITH LUG ON NEUTRAL BAR FOR EACH POLE IN PANELBOARD. GROUND LUGS AND BUS-CONFIGURED TERMINATORS: COMPRESSION TYPE, WITH LUG ON BAR FOR EACH POLE IN
- PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH NAMEPLATE WITH PERMANENT PLASTIC LAMINATE LABEL.
- DEVICE NAMEPLATES: LABEL EACH BRANCH CIRCUIT DEVICE IN POWER PANELBOARDS WITH NAMEPLATE COMPLYING WITH REQUIREMENTS FOR IDENTIFICATION SPECIFIED IN SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."
- PROVIDE DIRECTORY CARD INSIDE PANELBOARD DOOR, MOUNTED IN TRANSPARENT CARD HOLDER. ALL BREAKERS SHALL BE BOLT-ON TYPE.
- ALL BREAKERS SHALL BE RATED TO WITHSTAND INCOMING AVAILABLE FAULT CURRENT FROM UTILITY COMPANY TRANSFORMER.
- SERIES RATING MAY BE ALLOWED IF ACCEPTABLE BY LOCAL CODES. ALL SERIES RATED APPLICATION MUST MEET ALL N.E.C.
- PROVIDE ENGRAVED PLAQUE WITH AVAILABLE FAULT CURRENT AT SERVICE DISCONNECT AND AT EACH PANELBOARD. CONTRACTOR SHALL PROVIDE ARC FLASH STUDY AND LABELING. LABELS SHALL BE PROVIDED AT SERVICE ENTRANCE,

#### PANELBOARD, HVAC EQUIPMENT AND OTHER LOCATIONS AS REQUIRED. 1.10 TRANSFORMERS

- PROVIDE DRY-TYPE TRANSFORMER AS SHOWN ON DRAWINGS. UNLESS SPECIFIED OTHERWISE, DESIGN, MANUFACTURE, AND TESTING OF TRANSFORMERS SHALL MEET REQUIREMENTS OF NEMA NO. ST 20 AND UL STANDARDS. TRANSFORMERS SHALL HAVE SEPARATE PRIMARY AND SECONDARY WINDINGS FOR EACH PHASE. PRIMARY WINDING OF
- VOLTAGE AND TWO OR FOUR OF WHICH SHALL PROVIDE 2-1/2% INCREMENTS BELOW FULL RATED VOLTAGE. TRANSFORMERS SHALL HAVE 115 DEGREES C INSULATION SYSTEM RATED FOR CONTINUOUS OPERATION AT RATED KVA, TRANSFORMER SURFACE TEMPERATURE RISE SHALL NOT EXCEED 65 DEGREES CELCIUS. PROVIDE SUITABLE TERMINAL COMPARTMENT TO ACCOMMODATE REQUIRED PRIMARY AND SECONDARY WIRING CONNECTIONS AND

SIDE OR BOTTOM CONDUIT ENTRANCE. TERMINAL COMPARTMENT TEMPERATURE SHALL NOT EXCEED 75 DEGREES CELCIUS WHEN

TRANSFORMERS SHALL HAVE FOUR OR SIZ T TAPS, TWO OF WHICH SHALL PROVIDE 2-1/2"% INCREMENTS ABOVE FULL RATED

- TRANSFORMER IS OPERATING AT RATED LOAD WITH AMBIENT TEMPERATURE OF 40 DEGREES CELCIUS. TERMINALS FOR WIRING SHALL BE SUITABLE FOR COPPER. TRANSFORMER SHALL BE AIR-COOLED. THREE-PHASE TRANSFORMERS SHALL BE FULLY ENCLOSED IN STEEL ENCLOSURES. ALL
- WIRING SHALL BE COPPER ONLY. F. SOUND LEVELS DETERMINED BY NEMA STANDARDS SHALL NOT EXCEED 50 DB.

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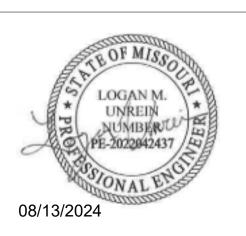
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**SPECIFICATIONS** 

- CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR EACH TYPE OF NATURAL GAS SPECIALTY AND SPECIAL DUTY VALVE. INCLUDE PRESSURE RATING, RATED CAPACITY, AND SETTINGS OF SELECTED MODELS. COMPLY WITH NFPA 54, "NATIONAL FUEL GAS CODE," FOR GAS PIPING MATERIALS AND COMPONENTS; INSTALLATIONS; AND INSPECTING, TESTING, AND PURGING. PROVIDE LISTING/APPROVAL STAMP, LABEL, OR OTHER MARKING ON EQUIPMENT MADE TO SPECIFIED STANDARDS.
- GAS VALVES, 2 INCH NPS (DN50) AND SMALLER: 125 PSIG (860 KPA) WOG MINIMUM, EQUIVALENT TO ASME B16.33, NONLUBRICATED PLUG TYPE WITH POLYTETRAFLUOROETHYLENE (PTFE) LINING OR SLEEVE, STRAIGHTAWAY PATTERN, CAST IRON BODY. INCLUDE SQUARE OR FLAT HEAD AND
- UNIONS, TRANSITION AND SPECIAL FITTINGS, AND VALVES WITH PRESSURE RATINGS TO BE SAME AS OR HIGHER THAN SYSTEM PRESSURE RATING MAY BE USED IN APPLICATIONS BELOW, EXCEPT WHERE OTHERWISE INDICATED.
  - LOW PRESSURE, 0.5 PSIG (3.45 KPA) OR LESS, NATURAL GAS SYSTEMS; USE THE FOLLOWING: 1-INCH NPS (DN25) AND SMALLER: STEEL PIPE. MALLEABLE. IRON THREADED FITTINGS. AND THREADED JOINTS. 1-1/4 TO 2-INCH NPS (DN32 TO DN50): STEEL PIPE, MALLEABLE\_IRON THREADED FITTINGS, AND
  - THREADED JOINTS MEDIUM PRESSURE, 0.5 TO 5 PSIG (3.45 TO 13.8 KPA), NATURAL GAS SYSTEMS: USE THE FOLLOWING:
  - 1-INCH NPS (DN25) AND SMALLER: STEEL PIPE. BUTT WELDING FITTINGS. AND WELDED JOINTS. 1-1/4 INCH NPS (DN32) AND LARGER: STEEL PIPE, BUTT WELDING FITTINGS, AND WELDED JOINTS.

THREADED ENDS CONFORMING TO ASME B1.20.1. A. LOCKING DEVICE: INCLUDE LOCKING (TAMPERPROOF) FEATURE.

- PROVIDE GAS SHUTOFF VALVES FOR ALL EQUIPMENT. INSTALL DRIPS AT POINTS WHERE CONDENSATE MAY COLLECT. LOCATE WHERE READILY ACCESSIBLE TO PERMIT CLEANING AND EMPTYING. DO NOT INSTALL WHERE CONDENSATE WOULD BE SUBJECT TO FREEZING. CONSTRUCT DRIPS AND SEDIMENT TRAPS USING TEE FITTING WITH BOTTOM OUTLET PLUGGED OR CAPPED. USE MINIMUM LENGTH NIPPLE OF 3 PIPE DIAMETERS, BUT NOT LESS THAN 3 INCHES (75 MM) LONG, AND SAME SIZE AS CONNECTED PIPE. INSTALL WITH SPACE BETWEEN BOTTOM OF DRIP AND FLOOR FOR REMOVAL OF PLUG OR CAP. CONCEAL PIPE INSTALLATIONS IN WALLS, PIPE SPACES, UTILITY SPACES, ABOVE CEILINGS, BELOW GRADE OR FLOORS, AND IN FLOOR CHANNELS. EXCEPT WHERE INDICATED TO BE EXPOSED TO VIEW. INSTALL GAS PIPING AT UNIFORM GRADE OF 0.1 PERCENT SLOPE UPWARD TOWARD RISERS. USE ECCENTRIC REDUCER FITTINGS TO MAKE REDUCTIONS IN PIPE SIZES. INSTALL FITTINGS WITH LEVEL SIDE DOWN. CONNECT BRANCH PIPING FROM TOP OR SIDE OF HORIZONTAL PIPING. INSTALL UNIONS IN PIPES 2\_INCH NPS (DN50) AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT, AND ELSEWHERE AS INDICATED. UNIONS ARE NOT REQUIRED ON FLANGED DEVICES. INSTALL STRAINERS ON SUPPLY SIDE OF EACH CONTROL VALVE, GAS PRESSURE REGULATOR, SOLENOID VALVE, AND ELSEWHERE AS INDICATED. INSTALL DIELECTRIC FITTINGS (UNIONS) WITH FERROUS AND BRASS OR BRONZE END CONNECTIONS, SEPARATED BY INSULATING MATERIAL, WHERE PIPING OF DISSIMILAR METALS IS JOINED.
- STRAINERS SIZE 2 INCH AND UNDER: CLASS 150, THREADED BRONZE BODY 300 PSI CWP, Y PATTERN WITH 0.8 MM (1/32 INCH) STAINLESS STEEL PERFORATED SCREEN.
- UNIONS FOR USE WITH COPPER PIPING SHALL BE CAST BRASS OR CAST BRONZE WITH GROUND JOINT SPHERICAL SEAT AND WITH CAST BRASS OR
- BRONZE OR WROUGHT COPPER SWEAT ENDS. UNIONS FOR USE IN FERROUS PIPE SHALL BE MALLEABLE IRON WITH BRASS TO IRON GROUND JOINT SPHERICAL SEAT, SCREWED ENDS, AND RATED FOR NOT LESS THAN 300 PSI WATER WORKING PRESSURE.
- BALL VALVES SHALL SHALL BE MSS SP-110, BRONZE, TWO PIECE BODY, CHROME PLATED BRASS BALL, FULL PORT, TEFLON SEATS AND STUFFING BOX RING, BLOW-OUT PROOF STEM, LEVER HANDLE WITH BALANCING STOPS, SOLDER, ENDS.
- PLUG VALVES SHALL BE RATED AT 150 PSI WOG WITH BRONZE BODY, STRAIGHTAWAY PATTERN, SQUARE HEAD, AND THREADED ENDS.
- - REAM PIPES AND TUBES. CLEAN OFF SCALE AND DIRT, INSIDE AND OUTSIDE BEFORE ASSEMBLY. REMOVE WELDING SLAG OR OTHER FOREIGN MATERIAL FROM PIPING. DURING CONSTRUCTION, UNTIL SYSTEM IS FULLY OPERATIONAL, KEEP ALL OPENINGS IN PIPING AND EQUIPMENT CLOSED EXCEPT WHEN ACTUAL WORK IS BEING PERFORMED ON THAT ITEM OR SYSTEM. PROVIDE CLOSURES, PLUGS, CAPS, BLIND FLANGES OR OTHER SIMILAR ITEMS SPECIFICALLY DESIGNED FOR THIS PURPOSE.
  - RUN PIPE LINES STRAIGHT AND TRUE, PARALLEL TO BUILDING LINES WITH MINIMUM USE OF OFFSETS AND COUPLINGS. PROVIDE OFFSETS ONLY TO PROVIDE HEADROOM OR CLEARANCE AND TO PROVIDE FLEXIBILITY IN PIPE LINES. CHANGES IN DIRECTION OF PIPE LINES SHALL BE MADE ONLY WITH FITTINGS OR PIPE BENDS. CHANGES IN SIZE SHALL BE MADE ONLY WITH FITTINGS. DO NOT USE MITER FITTINGS, FACE OR FLUSH BUSHINGS OR STREET ELBOWS. ALL FITTINGS SHALL BE OF THE LONG RADIUS TYPE, UNLESS OTHERWISE INDICATED. USE FULL AND DOUBLE
  - CUT PIPE TO EXACT MEASUREMENT AND INSTALL WITHOUT SPRINGING OR FORCING EXCEPT IN CASE OF EXPANSION LOOPS WHERE COLD SPRINGING IS INDICATED. TAKE PARTICULAR CARE TO AVOID CREATING, EVEN TEMPORARILY, UNDUE LOADS, FORCES OR STRAINS ON VALVES, EQUIPMENT OR BUILDING ELEMENTS WITH PIPING CONNECTIONS OR PIPING SUPPORTS.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE OR EQUIPMENT CONNECTIONS
- PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND FOR ACCESS TO VALVES, AIR VENTS, DRAINS AND UNIONS. FINAL CONNECTIONS TO ALL EQUIPMENT AND FIXTURES SHALL BE MADE IN A MANNER THAT WILL PERMIT THE COMPLETE REMOVAL OF ANY
- FIXTURES OR ANY PIECE OF EQUIPMENT WITHOUT CUTTING PIPE LINES.
- USE MAIN SIZED SADDLE TYPE BRANCH CONNECTIONS FOR DIRECTLY CONNECTING BRANCH LINES TO MAINS IN STEEL PIPING SYSTEMS WHEN THE MAIN IS AT LEAST TWO PIPE SIZES LARGER THAN THE BRANCH PIPING. DO NOT PROJECT BRANCH PIPES INSIDE OF MAIN PIPES. USE
- MANUFACTURED TEE FITTINGS FOR BRANCH PIPES THAT ARE THE SAME SIZE AS THE MAIN OR ONE PIPE SIZE SMALLER THAN THE MAIN PIPES. PROVIDE UNIONS AT ALL FINAL CONNECTIONS TO EQUIPMENT, TRAPS AND VALVES TO FACILITATE DISMANTLING. ARRANGE PIPING AND PIPING CONNECTIONS SO THAT EQUIPMENT BEING SERVED MAY BE SERVICED OR TOTALLY REMOVED WITHOUT DISTURBING PIPING BEYOND FINAL CONNECTIONS AND ASSOCIATED SHUT-OFF VALVES.
- THREADED JOINTS SHALL BE FULL AND CLEAN CUT. JOINTS SHALL BE MADE UP TIGHT WITH JOINT COMPOUND OR TEFLON JOINT TAPE MANUFACTURED AND APPROVED FOR USE WITH THE CONTENTS TO FLOW WITHIN THE PIPE AND EXPOSED THREADS OF FERROUS PIPE SHALL BE PAINTED WITH ACID-RESISTING PAINT AFTER PIPING HAS BEEN TESTED AND PROVED TIGHT. NO CAULKING. LAMPWICK OR OTHER MATERIAL
- WATER PIPING SHALL BE PITCHED TO DRAIN AT LOW POINTS. STEEL TO COPPER CONNECTIONS SHALL BE MADE WITH DIELECTRIC UNIONS. DRAIN PIPING FOR COIL DRAIN PANS SHALL EXTEND FULL SIZE OF OUTLET CONNECTION, OR MINIMUM OF 3/". USE PLUGS ON ALL JOINTS WITH
- CROSSES. PROVIDE DEEP SEAL TRAP ON DRAIN PAN OUTLETS ON AIR SYSTEMS TO PREVENT BLOWING THROUGH TRAP. BRANCH CONNECTIONS AND CHANGES IN DIRECTION IN SOIL AND WASTE LINES SHALL BE MADE WITH 45° "Y" FITTINGS OR LONG SWEEP ELBOWS, EXCEPT THAT SANITARY TEES OR SHORT SWEEP ELBOWS MAY BE USED IN VERTICAL STACKS AND CLOSET CONNECTIONS. PIPING SHALL BE GRADED TO A UNIFORM FALL OF 1/4" PER FOOT WHERE POSSIBLE. IN NO CASE SHALL PIPING BE PITCHED LESS THAN 1/8" PER FOOT. CLEANOUTS SHALL BE INSTALLED WHERE SHOWN ON DRAWINGS, AT CHANGES IN DIRECTION OF PIPING, WHERE NECESSARY FOR EASY
- CLEANING OF PIPING AND AS REQUIRED BY CODES. CLEANOUTS SHALL BE FULL SIZE OF PIPE UP TO 4" IN SIZE. VENT STACKS SHALL BE EXTENDED FULL SIZE OR A MINIMUM SIZE OF 3" DIAMETER THROUGH ROOF AND SHALL BE INSTALLED WITH SLEEVES AND
- WITH FLASHING/COUNTERFLASHING ASSEMBLY AS HEREIN SPECIFIED FOR A WATERTIGHT INSTALLATION. ADDITIONAL DROPS, RISERS, SWINGS, ETC. SHALL BE PROVIDED WHERE NECESSARY. PARALLEL LINES SHALL BE STRAIGHT, TRULY PARALLEL AND REGULARLY SPACED. PIPING SHALL BE CONCEALED IN UTILITY SPACES, PIPE SHAFTS, WALL VOIDS, CEILING VOIDS, PARTITIONS, ETC., IN
- FINISHED PORTIONS OF BUILDING. PIPING SHALL BE EXPOSED IN MECHANICAL EQUIPMENT ROOMS AND OTHER UNFINISHED AREAS. SUPPLIES SHALL BE EXTENDED AND CONNECTED TO ALL FIXTURES, APPLIANCES AND FITTINGS REQUIRING SERVICE. PIPING SHALL BE SIZED AS
- EQUIRED BY NUMBER AND TYPE OF FIXTURE SUPPLIED. FURNISH AND INSTALL SHUTOFF VALVES IN MAIN WATER SUPPLIES TO EACH FIXTURE GROUP.
- 1.10 INSPECTION & CLEANING
- THE INSIDE AND OUTSIDE SURFACES OF ALL PIPE, TUBING, VALVES, AND FITTINGS SHALL BE CLEANED OF ALL DIRT, SAND, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS IMMEDIATELY AFTER REMOVAL FROM STORAGE AND BEFORE ERECTION. AFTER COMPLETION OF ALL PIPING SYSTEMS, ALL LINES SHALL BE THOROUGHLY FLUSHED OR BLOWN OUT BEFORE BEING PLACED IN SERVICE. THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO STARTING ANY POST ERECTING CLEANING OPERATION IN SUFFICIENT TIME TO ALLOW WITNESSING THE OPERATION. PRIOR TO BLOWING OR FLUSHING ERECTED PIPING SYSTEMS, THE CONTRACTOR SHALL DISCONNECT ALL INSTRUMENTATION AND EQUIPMENT,
- FULLY OPEN ALL VALVES, AND ENSURE THAT ALL STRAINER SCREENS ARE IN PLACE. PIPE AND COMPONENTS ON WATER SYSTEMS SHALL BE FLUSHED WITH CLEAN WATER UNTIL ALL DISCHARGE FROM THE SYSTEM IS CLEAN. A WATER SAMPLE FROM EACH SYSTEM SHALL BE ANALYZED FOR CLEANLINESS AFTER SYSTEM IS FLUSHED WITH CLEAN WATER. IF THE WATER ANALYSIS INDICATES THAT THE SYSTEM IS NOT CLEAN, THE SYSTEM SHALL BE FLUSHED WITH A PRECLEANING CHEMICAL DESIGNED TO REMOVE OIL, PIPE DOPE, LOOSE MILL SCALE, AND OTHER EXTRANEOUS MATERIALS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED PRECLEANING CHEMICALS FOR APPROVAL. THIS CLEANING SHALL BE FOLLOWED BY WATER FLUSHING AS DESCRIBED. MINIMUM VELOCITIES OF 5 FEET/SECOND SHALL BE MAINTAINED AT ALL POINTS. FLOW SHALL BE IN SAME DIRECTION AS WHEN THE SYSTEM IS IN NORMAL OPERATION. DISCHARGE SHALL BE FROM LOW POINTS OF LINES, ENDS OR HEADERS, AND AS OTHERWISE REQUIRED TO FLUSH THE ENTIRE SYSTEM. AFTER FLUSHING, ANY RESIDUAL WATER SHALL BE DRAINED AND/OR BLOWN OUT PRIOR TO TESTING.
- 1.11 TESTING
  - ALL HYDRAULIC TESTING SHALL CONFORM TO ANSI B31.1, B31.5, B31.8 AND B31.9. THE CONTRACTOR SHALL APPLY THE SPECIFIED TEST PRESSURE FOR A MINIMUM TIME AT LEAST EQUAL TO THE APPLICABLE STANDARD'S REQUIREMENTS.

RESTRAINTS ON EXPANSION JOINTS AND FLEXIBLE CONNECTIONS DURING PRESSURE TESTING.

- PERFORM TESTS ONLY AFTER THE PIPE AND CONTENTS HAVE STABILIZED AT AMBIENT TEMPERATURE AND THE SOURCE OF TEST PRESSURE IS SHUT OFF. PIPING TESTS SHALL APPLY TO PIPING ONLY, WITH ALL EQUIPMENT, AND INSTRUMENTS BLOCKED OFF OR DISCONNECTED. NO COMPONENT OR PIPING SHALL BE SUBJECTED TO PRESSURES, WHICH EXCEED THEIR RESPECTIVE PRESSURE RATINGS. PROVIDE TEMPORARY
- HYDROSTATIC TESTS SHALL APPLY TO PIPING AS FOLLOWS:
- DOMESTIC WATER, 120 PSIG FOR TWO (2) HOURS. WASTE, 10 FT. W.C. FOR TWO (2) HOURS.
- THE PRESSURE SHALL BE GRADUALLY RAISED TO THE VALUE SPECIFIED AND THE SOURCE THEN BLOCKED OFF. LEAKAGE, OR LOSS OF PRESSURE IN THE TEST DURATION PERIOD, SHALL NOT BE ACCEPTABLE.
- AUDIBLE OR VISIBLE LEAKS DETECTED DURING TESTING SHALL BE CAUSE TO DISAPPROVE THE TEST EVEN THOUGH THE MAXIMUM ALLOWABLE PRESSURE DROP HAS NOT BEEN EXCEEDED. THE CONTRACTOR SHALL VISUALLY EXAMINE ALL JOINTS DURING THE TESTS. THE CONTRACTOR SHALL REPAIR ALL LEAKS AND SHALL REPEAT THE COMPLETE TESTING PROCEDURE, AS MANY TIMES AS NECESSARY TO ACHIEVE AN
- ACCEPTABLE SYSTEM, AT NO ADDITIONAL COST TO THE OWNER. UPON SUCCESSFUL COMPLETION AND APPROVAL OF THE TESTS, THE CONTRACTOR SHALL RELIEVE THE PIPING OF PRESSURE, DRAIN THE SYSTEM, AND PUT THE SYSTEM INTO NORMAL OPERATION AFTER FURTHER COMPLYING WITH ALL CLEANING REQUIREMENTS AS SPECIFIED
- 1.12 DISINFECTION

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- CLEAN AND DISINFECT WATER DISTRIBUTION PIPING.
- PURGE ALL NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR
- USE THE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION OR, IN CASE A METHOD IS NOT
- PRESCRIBED BY THAT AUTHORITY, USE THE PROCEDURE DESCRIBED IN AWWA C651. PREPARE REPORTS FOR ALL PURGING AND DISINFECTING ACTIVITIES.

# PLUMBING SPECIFICATIONS

- - CLEAN AND DISINFECT WATER DISTRIBUTION PIPING.
  - PURGE ALL NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED, PRIOR TO USE
  - USE THE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION OR, IN CASE A METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, USE THE PROCEDURE DESCRIBED IN AWWA C651.
- PREPARE REPORTS FOR ALL PURGING AND DISINFECTING ACTIVITIES.
- 1.13 PLUMBING FIXTURES
- ALL PLUMBING FIXTURES, EQUIPMENT AND RELATED ACCESSORIES SHALL BE FURNISHED AND INSTALLED IN A NEAT, FINISHED AND UNIFORM MANNER. ALL WORK AND MATERIAL REQUIRED TO ROUGH-IN, CONNECT UP AND INSTALL SUPPLY, DRAIN, WASTE, SOIL & VENT PIPING SHALL BE PROVIDED AS REQUIRED FOR PROPER OPERATION. THIS SHALL INCLUDE PLUMBING FIXTURES. EQUIPMENT AND ACCESSORIES AND INCLUDES ITEMS FURNISHED UNDER OTHER SECTIONS OR FURNISHED BY THE OWNER. FIXTURES, EQUIPMENT AND ACCESSORIES ARE SPECIFIED BY MANUFACTURER'S NUMBERS AS TO THE TYPE AND QUALITY REQUIRED.
- ALL STAINLESS STEEL FIXTURES (I.E., ELECTRIC WATER COOLERS, SINKS, ETC.) SHALL BE 18 GAUGE, TYPE 302 (18-8) NICKEL BEARING STAINLESS
- STEEL. WITH BRUSHED SATIN FINISH AND SOUND DEADENING UNDERCOAT. PLUMBING TRIM UTILIZED SHALL BE PROVIDED WITH RENEWABLE SEATS AND REPLACEABLE INTERNAL WORKING COMPONENTS UNLESS OTHERWISE SPECIFIED, EACH LAVATORY SHALL BE PROVIDED WITH: MCGUIRE ST7-LK ANGLE STOPS AND M65 3/8" X 12" FLEXIBLE RISERS; MCGUIRE 8902 ADJUSTABLE, SEMI CAST BRASS P-TRAP (1¼" INLET, 1½" OUTLET) WITH GROUND SWIVEL JOINT, CLEANOUT PLUG, SLIP
- INLET AND 17 GAUGE 11/2" TRAP ARM. PROVIDE MCGUIRE 158WC LOOSE KEY STRAIGHT STOP SUPPLIES FOR BARRIER FREE LAVATORIES. UNLESS OTHERWISE SPECIFIED, EACH SINK SHALL BE PROVIDED WITH: MCGUIRE ST7-LK ANGLE STOPS AND M66 3/8" X 20" FLEXIBLE RISERS; MCGUIRE 151 BASKET STRAINER, 11/2" X 4" 17 GAUGE TAILPIECE WITH BRASS LOCKING AND COUPLING NUTS: MCGUIRE 8912 ADJUSTABLE, SEMI CAST BRASS P-TRAP (11/2") WITH GROUND SWIVEL JOINT, CLEANOUT PLUG, SLIP INLET AND 17 GAUGE 11/2" TRAP ARM. PROVIDE ADDITIONAL STRAINERS, TAILPIECES AND CONTINUOUS WASTE PIECES FOR MULTIPLE COMPARTMENT SINKS AS REQUIRED. PROVIDE MCGUIRE 158WC LOOSE
- KEY STRAIGHT STOP SUPPLIES FOR BARRIER FREE LAVATORIES. ALL FIXTURES SHALL BE SUBSTANTIALLY SUPPORTED IN AN APPROVED MANNER. FURNISH AND INSTALL ADJUSTABLE CARRIERS WITH LEGS. FLOOR BASES, BEARING PLATES, SUPPORT ARMS OR RODS AS REQUIRED FOR ALL WALL HUNG FIXTURES. ANCHOR CARRIERS TO FLOOR AND BRACE TO WALL CONSTRUCTION FOR SUBSTANTIAL SUPPORT. CARRIERS SHALL BE REQUIRED TO FIT FIXTURES FURNISHED. VERIFY AVAILABLE SPACE FOR CARRIERS AND PROVIDE APPROPRIATE CARRIER TO FIT SPACE AND BUILDING CONSTRUCTION. INSTALL ALL SUPPORTS BEFORE WALLS ARE FINISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A PERIOD OF ONE YEAR FOLLOWING FINAL ACCEPTANCE OF THE BUILDING, FOR THE LOOSENING OF ANY PLUMBING FIXTURE AND ANY SUBSEQUENT DAMAGE TO THE BUILDING CAUSED BY THE FIXTURE OR AS A RESULT OF LEAKS IN PIPING. THE CONTRACTOR SHALL PROMPTLY MAKE REPAIRS TO THE BUILDING, AND REPLACE OR REPAIR FIXTURE
- CARRIERS AS DEEMED NECESSARY BY THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT. ALL FIXTURES SHALL BE SET TRUE AND LEVEL. INSTALL ALL FIXTURES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND AT
- RECOMMENDED HEIGHTS UNLESS OTHERWISE INDICATED. FIXTURES THAT ARE WALL HUNG OR BUTT A WALL SHALL HAVE ADJACENT EDGES AND SURFACES FACTORY GROUND TRUE AND SQUARE. ALL SPACES BETWEEN FIXTURES AND FINISHED SURFACES SHALL BE CAULKED AND POINTED SQUARE WITH AN APPROVED SILICONE SEALANT
- RESULTING IN A NEAT AND SMOOTH APPEARANCE. SEALANT COLOR SHALL BE AS APPROVED BY THE ARCHITECT ALL EXPOSED FIXTURE TRIM SHALL BE POLISHED CHROME PLATED BRASS. EXPOSED FIXTURE TRIM INCLUDING WASTE AND VENT PIPING IN THE KITCHEN AREA SHALL BE NO-HUB CAST IRON WITH STAINLESS STEEL PROTECTIVE JACKETING WHERE STANDARD POLISHED CHROME PLATED
- BRASS MATERIALS ARE NOT AVAILABLE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND CLEANLINESS OF ALL FIXTURES, EQUIPMENT AND ACCESSORIES. ALL PRECAST RECEPTORS AND BASINS SHALL BE OF STANDARD COLOR AS SELECTED BY THE ARCHITECT, AND SET LEVEL IN A BED OF CEMENT MORTAR PER MANUFACTURERS REQUIREMENTS.
- 1.14 COMMERCIAL, GAS-FIRED, STORAGE, DOMESTIC-WATER HEATERS COMMERCIAL, GAS-FIRED, HIGH-EFFICIENCY, STORAGE, DOMESTIC-WATER HEATERS:
  - SOURCE LIMITATIONS: OBTAIN DOMESTIC-WATER HEATERS FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. STANDARD: ANSI Z21.10.3/CSA 4.3
  - DESCRIPTION: MANUFACTURER'S PROPRIETARY DESIGN TO PROVIDE AT LEAST 90 PERCENT COMBUSTION EFFICIENCY AT OPTIMUM
  - STORAGE-TANK CONSTRUCTION: ASME-CODE STEEL WITH 150-PSIG (1035-KPA) MINIMUM WORKING-PRESSURE RATING.
  - TAPPINGS: FACTORY FABRICATED OF MATERIALS COMPATIBLE WITH TANK. ATTACH TAPPINGS TO TANK BEFORE TESTING. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS.
  - FACTORY-INSTALLED, STORAGE-TANK APPURTENANCES:
  - ANODE ROD: REPLACEABLE MAGNESIUM.
  - DIP TUBE: REQUIRED UNLESS COLD-WATER INLET IS NEAR BOTTOM OF TANK DRAIN VALVE: CORROSION-RESISTANT METAL WITH HOSE-END CONNECTION.
  - INSULATION: R12.5. SURROUND ENTIRE STORAGE TANK EXCEPT CONNECTIONS AND CONTROLS.
  - JACKET: STEEL WITH ENAMELED FINISH. BURNER OR HEAT EXCHANGER: COMPLY WITH UL 795 OR APPROVED TESTING AGENCY REQUIREMENTS FOR GAS-FIRED, HIGH-
  - EFFICIENCY, DOMESTIC-WATER HEATERS AND NATURAL-GAS FUEL. TEMPERATURE CONTROL: TEMPERATURE CONTROLS SHALL BE PROVIDED THAT ALLOW FOR STORAGE TEMPERATURE
  - ADJUSTMENT FROM 120°F (49°C) OR LOWER TO A MAXIMUM TEMPERATURE COMPATIBLE WITH THE INTENDED USE. SAFETY CONTROLS: AUTOMATIC, HIGH-TEMPERATURE-LIMIT AND LOW-WATER CUTOFF DEVICES OR SYSTEMS. COMBINATION TEMPERATURE-AND-PRESSURE RELIEF VALVES: ANSI Z21.22/CSA 4.4. INCLUDE ONE OR MORE RELIEF VALVES

WITH TOTAL RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT, AND INCLUDE PRESSURE SETTING LESS THAN

- WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER. SELECT ONE RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO STORAGE TANK. 1.15 DOMESTIC-WATER HEATER ACCESSORIES
  - DOMESTIC-WATER EXPANSION TANKS: SOURCE LIMITATIONS: OBTAIN DOMESTIC-WATER HEATERS FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. DESCRIPTION: STEEL, PRESSURE-RATED TANK CONSTRUCTED WITH WELDED JOINTS AND FACTORY-INSTALLED, BUTYL-RUBBEF DIAPHRAGM. INCLUDE AIR PRECHARGE TO MINIMUM SYSTEM-OPERATING PRESSURE AT TANK.
  - CONSTRUCTION: TAPPINGS: FACTORY-FABRICATED STEEL, WELDED TO TANK BEFORE TESTING AND LABELING. INCLUDE ASME B1.20.1 PIPE
  - INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS. AIR-CHARGING VALVE: FACTORY INSTALLED.
  - DRAIN PANS: CORROSION-RESISTANT METAL WITH RAISED EDGE. INCLUDE DIMENSIONS NOT LESS THAN BASE OF DOMESTIC-WATER HEATER,
  - AND INCLUDE DRAIN OUTLET NOT LESS THAN NPS 3/4 (DN 20) WITH ASME B1.20.1 PIPE THREADS. HEAT TRAPS: INCLUDE FITTING OR FIELD-FABRICATED PIPING ARRANGEMENT COMPLYING WITH ASHRAE/IESNA 90.1 7.4.6 ON VERTICAL PIPE RISERS SERVING STORAGE WATER HEATERS AND STORAGE TANKS NOT HAVING INTEGRAL HEAT TRAPS AND SERVING A NONRECIRCULATING
  - GAS SHUTOFF VALVES: ANSI Z21.15/CSA 9.1, MANUALLY OPERATED. FURNISH FOR INSTALLATION IN PIPING.
  - GAS PRESSURE REGULATORS: ANSI Z21.18/CSA 6.3, APPLIANCE TYPE. AUTOMATIC GAS VALVES: ANSI Z21.21/CSA 6.5, APPLIANCE, ELECTRICALLY OPERATED, ON-OFF AUTOMATIC VALVE.
  - PRESSURE RELIEF VALVES: INCLUDE PRESSURE SETTING LESS THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER. GAS-FIRED, DOMESTIC-WATER HEATERS: ANSI Z21.22/CSA 4.4.
  - VACUUM RELIEF VALVES: ANSI Z21.22/CSA 4.4.

# FIRE PROTECTION SPECIFICATIONS

- WATER BASED FIRE SUPPRESSION:
- 1.1 DESCRIPTION OF WORK PERFORMANCE SPECIFICATION FOR AUTOMATIC SPRINKLER SYSTEMS FOR BUILDINGS.
  - WORK INCLUDED: FURNISH ALL LABOR. SERVICES. MATERIALS AND EQUIPMENT AND PERFORM ALL WORK AS NECESSARY AND REQUIRED TO CONSTRUCT FIRE PROTECTION WORK COMPLETE AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. THE WORK INCLUDES:
    - SPRINKLERS AND ACCESSORIES.
  - WET PIPE SPRINKLER SYSTEM TO SERVE THE SPACE. SCOPE OF THE WORK: THE WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO THE DESIGN AND INSTALLATION OF SPRINKLER SYSTEMS AND ANY APPURTENANCES COMMON TO THE SYSTEMS, GENERALLY CONSISTING OF PIPE, FITTINGS, VALVES, HANGERS, COVERING, PAINTING, CLEANING, TESTING AND SUCH OTHER WORK AS IS NECESSARY AND SPECIFIED OR SHOWN ON THE DRAWINGS. THIS CONTRACTOR SHALL SCHEDULE DELIVERY OF EQUIPMENT AND PIPING AND COMPLETE HIS WORK SO THAT THERE
- IS NO INTERRUPTION IN THE WORK SCHEDULE. THE FIRE SPRINKLER CONTRACTOR SHALL COMPLETELY DESIGN THE SPRINKLER SYSTEM. IN ACCORDANCE WITH ALL CODES. REGULATIONS AND THE CRITERIA NOTED HEREIN. THIS CONTRACTOR SHALL PREPARE DESIGN DRAWINGS, CALCULATIONS, AND CATALOGS CUT SHEETS ON ALL COMPONENTS AND SUBMIT AS SHOP DRAWINGS FOR APPROVAL. PIPE SIZES SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY AND SHALL BE MODIFIED PER HYDRAULIC CALCULATION. ALL DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER, HIRED BY THE FIRE PROTECTION CONTRACTOR.
- A. THE ENTIRE FIRE PROTECTION INSTALLATION SHALL COMPLY FULLY WITH REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL
- LAWS.CODES AND ORDINANCES. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH THE APPLICABLE EDITION OF THE
- FOLLOWING STANDARDS AND/OR CODES. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION. INTERNATIONAL BUILDING CODE
- INTERNATIONAL FIRE CODE NFPA 13 SPRINKLER SYSTEMS
- THE SPRINKLER SYSTEMS SHALL BE DESIGNED AND HYDRAULICALLY CALCULATED SO AS TO PROVIDE THE DENSITY PER ABOVE CODES AND STANDARDS. CALCULATIONS SHALL BE SUBMITTED WITH WORKING DRAWINGS FOR APPROVAL. FLOW TEST: THIS CONTRACTOR IS TO VERIFY AVAILABILITY OF WATER SUPPLY BY PERFORMING AN ACTUAL FLOW TEST TO BE USED
- IN THEIR HYDRAULIC CALCULATIONS. THE HYDRAULIC CALCULATIONS SHALL BE BASED ON MAXIMUM 90% OF THE WATER SUPPLY AVAILABLE. THE WORK SHALL ALSO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- UL AND THE OWNER'S INSURANCE COMPANY
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND LICENSES.
- APPROVALS 1.3
  - BEFORE PROCEEDING WITH ANY FIRE PROTECTION WORK, THE CONTRACTOR SHALL PREPARE DRAWINGS, COMPLETELY ILLUSTRATING THE FIRE PROTECTION SYSTEM TO BE INSTALLED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL SUBMIT THE DRAWINGS TO THE STATE AND LOCAL AUTHORITIES HAVING JURISDICTION, AND THE OWNER'S INSURANCE COMPANY, FOR THEIR REVIEW. COMMENTS AND APPROVAL. THE APPROVED DRAWINGS SHALL BE STAMPED WITH THE APPROVAL STAMP AND DULY CERTIFIED BY AN AUTHORITY OFEACH INSPECTION BUREAU. FOUR COPIES OF THE CERTIFIED DRAWINGS SHALL BE FORWARDED TO THE ARCHITECT FOR APPROVAL.
- SUBMITTALS PRODUCT DATA: INCLUDE ALL REQUIRED COMPONENTS OF THE WORKING SPRINKLER SYSTEM. SHOP DRAWINGS: SUBMIT DRAWINGS WHICH HAVE BEEN PREPARED IN ACCORDANCE WITH NFPA 13 IDENTIFIED AS "WORKING PLANS," INCLUDING HYDRAULIC CALCULATIONS, AND WHICH HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- SHOP DRAWINGS SHALL BE COORDINATED WITH EQUIPMENT SUPPLIED BY OTHER CONTRACTORS AND THE OWNER. MAINTENANCE DATA OF ALL COMPONENTS REQUIRED FOR A WORKING SPRINKLER SYSTEM.
- TEST REPORTS AND CERTIFICATES: INCLUDE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR ABOVEGROUND PIPING" AS DESCRIBED IN NFPA 13.
- FURNISH ONE SET OF PRINTED RECORD DRAWINGS AND ONE SET OF AUTO-CAD DISKETTES. ONE SET OF PRINTS SHALL BE KEPT ON THEJOB AND MARKED LEGIBLY WITH COLORED PENCIL TO SHOW ALL CHANGES IN CONSTRUCTION FROM THAT SHOWN ON THE CONTRACT DOCUMENTS. THE RECORD DRAWINGS SHALL INCORPORATE ALL THE CHANGES DURING CONSTRUCTION TO REFLECT ACTUAL INSTALLATION. RECORD DRAWINGS SHALL BE DELIVERED TO ARCHITECT BEFORE FINAL ACCEPTANCE OF BUILDING BY THE
- INSTALLER QUALIFICATIONS: THE CONTRACTOR SHALL BE A LICENSED FIRE PROTECTION SYSTEMS CONTRACTOR. AS REQUIRED BY THE LOCAL OR STATE JURISDICTION, REGULARLY ENGAGED IN THE INSTALLATION OF AUTOMATIC FIRE SPRINKLER SYSTEMS AND FIRE PROTECTION EQUIPMENT
- UL AND FM COMPLIANCE: FIRE PROTECTION SYSTEM MATERIALS, VALVES, AND COMPONENTS SHALL BE UNDERWRITER'S LABORATORIES LISTED AND LABELED, OR FACTORY MUTUAL APPROVED FOR THE APPLICATION ANTICIPATED.
- 1.6 SEQUENCING AND SCHEDULING
  - SCHEDULE ROUGH-IN INSTALLATIONS WITH INSTALLATIONS OF OTHER BUILDING COMPONENTS. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING OPENING LOCATIONS WITH THE G.C. AND CUTTING, CORE DRILLING OR SLEEVING THE OPENINGS FOR PIPE, ETC., REQUIRED FOR THE INSTALLATION OF THE BUILDING FIRE PROTECTION SYSTEMS. ALLPENETRATIONS SHALL BE MADE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER. PIPING

PENETRATIONS OF CONCRETE SLABS MAY B  $\,$  CORE DRILLED, IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND

- SPECIFICATIONS.
  - A. THE CONTRACTOR GUARANTEES ALL FIRE PROTECTION WORK AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL AND THAT ALL PIPING IS FREE FROM FOREIGN MATERIAL, OBSTRUCTIONS, HOLES, OR BREAKS OF ANY NATURE.
  - THE CONTRACTOR GUARANTEES THE PROPER CIRCULATION AND/OR DRAINAGE OF FLUID IN EACH PIPING SYSTEM UPON WRITTEN NOTICE FROM THE ARCHITECT OR OWNER, THE CONTRACTOR SHALL PROMPTLY REMEDY, WITHOUT COST TO THE OWNER, ANY DEFECTS OCCURRING WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 1.8 PIPE AND TUBING MATERIALS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM DESIGNATION A-53. PIPING BELOW GRADE SHALL BE DUCTILE IRON AWWA C151, COPPER TYPE "K" OR PVC AWWA C900 CLASS 150.
- FITTINGS 1.9
  - A. MALLEABLE-IRON THREADED FITTINGS: ANSI B16.3. CLASS 150. STANDARD PATTERN. FOR THREADED JOINTS OR CAST IRON THREADED FITTINGS CLASS 125. THREADS SHALL CONFORM TO ANSI B1.20.1. GROOVED MECHANICAL FITTINGS: ASTM A 536, GRADE 65-45-12 DUCTILE IRON; ASTM A 47 GRADE 32510 MALLEABLE IRON; OR ASTM
  - GROOVED END COUPLINGS. GROOVED MECHANICAL COUPLINGS: CONSIST OF DUCTILE OR MALLEABLE IRON HOUSING, A SYNTHETIC RUBBER GASKET OF A CENTRAL CAVITY PRESSURE-RESPONSIVE DESIGN WITH NUTS, BOLTS, LOCKING PIN, LOCKING TOGGLE, OR LOGS TO SECURE

A53, TYPE F OR TYPES E OR S GRADE B FABRICATION STEELFITTINGS WITH GROOVES OR SHOULDERS DESIGNED TO ACCEPT

- ROLLED- GROOVED PIPE AND FITTINGS.
- 1.10 AUTOMATIC SPRINKLERS ALL SPRINKLERS SHALL BE OF THE AUTOMATIC TYPE, COMPLY WITH THE STANDARDS OF NFPA, BE UL LISTED, FM APPROVED AND MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- SPRINKLERS SHALL BE OF THE UPRIGHT, PENDENT OR SIDEWALL TYPE AS REQUIRED BY CONSTRUCTION IN THE AREA ON WHICH THEY ARE INSTALLED. SPRINKLERS INSTALLED IN AREAS WHERE A CEILING IS PRESENT SHALL BE SEMI-RECESSED TYPE. SPRINKLER FINISH SHALL BE PLAIN BRASS OR BRONZE FOR UNFINISHED AREAS AND POLISHED CHROME PLATED IN FINISHED
- TEMPERATURE RATINGS AND WORKING PRESSURES FOR SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA. SPRINKLER QUANTITY, TYPE AND LOCATION SHALL BE AS REQUIRED BY HYDRAULIC CALCULATIONS. ACCESSORIES
- ESCUTCHEONS, COVER PLATES AND APPLICABLE TRIM SHALL BE PROVIDED FOR ALL THROUGH-WALL AND THROUGH-CEILING TYPE SPRINKLER INSTALLATIONS IN FINISHED SPACES. PROVIDE SPRINKLER GUARDS FOR ALL SPRINKLERS SUBJECT TO DAMAGE IN ACCORDANCE WITH NFPA.
- 1.11 VALVES A. ALL VALVES SHALL BE APPROVED FOR FIRE PROTECTION USE, SHALL BE U.L. LISTED AND SHALL BE RATED FOR NOT LESS THAN 175 PSI WORKING PRESSURE GATE VALVES 2" AND SMALLER SHALL HAVE BRONZE BODIES, BRONZE TRIM, WEDGE DISC, RISING STEM, OS&Y PATTERN
  - AND SCREWED ENDS. VALVES SHALL BE CAPABLE OF BEING REPACKED UNDER PRESSURE, WITH VALVE WIDE OPEN. BALL VALVES MAY BE SUBSTITUTED IN THE PLACE OF GATE VALVES FOR 2" AND SMALLER. GATES VALVES 2-1/2" AND LARGER SHALL HAVE IRON BODIES, BRONZE MOUNTED, OS&Y PATTERN AND FLANGED BONNET, WITH BODY AND BONNET CONFORMING TO ASTM A 126 CLASS B; REPLACEABLE BRONZE WEDGE FACING RINGS; FLANGED ENDS; AND A PACKING ASSEMBLE CONSISTING OF A CAST IRON GLAND FLANGE, BRASS GLAND, PACKING, BONNET, AND
  - BRONZE BONNET BUSHING. VALVES SHALL BE CAPABLE OF BEING REPACKED UNDER PRESSURE, WITH VALVE WIDE OPEN. BUTTERFLY VALVES MAY BE SUBSTITUTED IN THE PLACE OF GATE VALVES FOR 2-1/2" AND LARGER. CHECK VALVES SHALL COMPLY WITH MSS SP-71; CLASS 175 CAST IRON BODY BOLTED CAP CONFORMING TO ASTM A 126, CLASS B; HORIZONTAL SWING, WITH A BRONZE DISC OR CAST IRON DISC WITH BRONZE DISC RING, AND FLANGED ENDS.
  - VALVE SHALL BE CAPABLE OF BEING REFITTED WHILE THE VALVE REMAINS IN THE LINE. ALARM CHECK VALVES SHALL BE 175 PSIG WORKING PRESSURE, DESIGNED FOR HORIZONTAL OR VERTICAL INSTALLATIONS, AND HAVE CAST IRON, FLANGED INLET AND OUTLET, BRONZE GROOVED SEAT WITH "O" RING SEALS. SINGLE HINGE PIN AND LATCH DESIGN. PROVIDE TRIM SETS FOR BYPASS, DRAIN, ELECTRIC SPRINKLER ALARM SWITCH, PRESSURE GAGES, PRECISION RETARDING CHAMBER, DRIP CUP ASSEMBLY PIPED WITHOUT VALVES SEPARATE FROM MAIN DRAIN LINE, AND FILL LINE ATTACHMENT WITH STRAINER.
- DRAIN AND TEST VALVES SHALL BE GLOBE OR ANGLE VALVES. MAIN SERVICE VALVE INSIDE OF BUILDING AND ALL SPRINKLER SYSTEM CONTROL VALVES SHALL BE OS&Y GATE VALVES AND SHALL BE ARRANGED AND PROVIDED WITH SUPERVISORY SWITCHES.
- - A. ALARM CHECK VALVE ASSEMBLIES SHALL BE COMPLETE WITH RETARDING CHAMBERS AND ALL NECESSARY TRIM AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION IN ACCORDANCE WITH NFPA REQUIREMENTS. ALARM VALVE SHALL BE AN APPROVED DIFFERENTIAL PRESSURE OR PILOT VALVE TYPE WHICH PROVIDES FOR THE PROPER OPERATION OF A WATER MOTOR ALARM AND/OR ELECTRICAL ALARM BELL.
  - ASSEMBLY SHALL BE UL LISTED, FM APPROVED, WITH A WORKING PRESSURE OF 175 PSI, WITH REPLACEABLE WORKING PARTS OF BRONZE, BRASS OR STAINLESS STEEL AND OPERATIONAL IN THE VERTICAL OR HORIZONTAL POSITION.
  - ASSEMBLIES SHALL BE PROVIDED WITH PRESSURE GAUGES, DRAIN VALVES, TESTING VALVES AND ARRANGED FOR OPERATION WITH FIRE ALARM SYSTEM AS REQUIRED.

# FIRE PROTECTION SPECIFICATIONS

- PROVIDE UL APPROVED TYPE PRESSURE GAUGES. GAUGES SHALL HAVE 3½" DIAMETER DIALS WITH GRADUATIONS AND MARKINGS AS REQUIRED FOR SYSTEM PRESSURES. EACH GAUGE SHALL BE EQUIPPED WITH SHUT-OFF AND DRAIN COCKS. PROVIDE 1/4" SCREW-PIPE FITTING WITH PLUG ON GAUGE SIDE OF SHUT-OFF COCK FOR INSTALLING INSPECTOR'S GAUGE
  - 1.14 PIPE HANGERS AND SUPPORTS ALL HORIZONTAL PIPE HANGERS SHALL BE UL APPROVED ADJUSTABLE STEEL RING HANGERS SPACED IN ACCORDANCE WITH NFPA

  - CONTRACTOR SHALL, UNLESS OTHERWISE SPECIFIED, FURNISH AND INSTALL SLEEVES FOR ALL PIPING, ETC. HE INSTALLS WHICH PASSES THROUGH FIRE RATED CONSTRUCTION WHICH IS REQUIRED FOR THE LISTED FIRE STOPPING SYSTEM WHICH INCLUDES.

REQUIREMENTS. ALL VERTICAL PIPES SHALL BE SUSPENDED WITH UL APPROVED STEEL RISER CLAMPS.

- WALLS: PARTITIONS, AND FLOORS. SLEEVES FOR PIPING, ETC., IN ALL WALLS AND FLOORS, UNLESS OTHERWISE MODIFIED OR SPECIFIED, SHALL BE OF STANDARD SCHEDULE 40 BLACK STEEL PIPE WITH ENDS CUT SQUARE AND REAMED AND OF SUFFICIENT LENGTH TO FINISH FLUSH WITH FINISHED SURFACES AT BOTH ENDS OF SLEEVES, VERTICAL PIPE SLEEVES THROUGH STRUCTURAL SLABS SHALL BE SPACED NOT
- LESS THAN THREE DIAMETERS CENTER TO CENTER. SLEEVES SHALL NOT BE INSTALLED THROUGH FOOTINGS, BEAMS OR COLUMNS EXCEPT AS APPROVED BY THE ARCHITECT. WHERE APPROVED, SLEEVES SHALL BE SCHEDULE 40 STEEL PIPE.
- SLEEVES IN FLOORS ABOVE GRADE SHALL EXTEND 3 INCHES ABOVE FINISHED FLOOR. WHERE WATERPROOFING MEMBRANE IS PENETRATED, INSTALL SLEEVE WITH CLAMPING FLANGE AND CAULK WITH OAKUM AND LEAD

# 1.16 AUXILIARY DRAINS

CONTRACTOR SHALL FURNISH AND INSTALL AUXILIARY DRAIN VALVES AS REQUIRED AND SHALL EXTEND THROUGH WALLS OF BUILDING OR TO FLOOR DRAIN INSIDE BUILDING, ELBOWED DOWN WITH 45 DEGREE DISCHARGE.

#### 1.17 PIPE APPLICATIONS INSTALL SCHEDULE 40 STEEL PIPE WITH THREADED JOINTS AND FITTINGS FOR 2 INCH AND SMALLER, AND EITHER SCHEDULE 10 OR

40 WITH EITHER WELDED OR ROLL-GROOVED ENDS AND GROOVED MECHANICAL COUPLINGS FOR 2½" AND LARGER.

#### 1.18 PIPING TESTS

ALL PIPING SHALL BE TESTED, LEAKS REPAIRED AND SYSTEMS RETESTED UNTIL PROVED TIGHT BEFORE BACKFILLING OR

FIRE PROTECTION PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH REQUIREMENTS OF NFPA.

- 1.19 INSPECTION AND TESTS
  - ALL INSPECTIONS, EXAMINATIONS AND TESTS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION SHALL BE ARRANGED AND PAID FOR BY THE FIRE PROTECTION CONTRACTOR, AS NECESSARY TO OBTAIN COMPLETE AND FINAL ACCEPTANCE OF THE FIRE PROTION SYSTEM. THE FIRE PROTECTION CONTRACTOR SHALL DELIVER CERTIFICATES OF ALL SUCH INSPECTIONS AND TEST TO

CONSTRUCTION

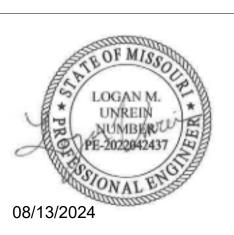
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**SPECIFICATIONS** 

**GENERAL NOTES** 

CONSTRUCTION.

REQUIREMENTS.

EQUIPMENT.

1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY

ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO

2. COORDINATE WITH JOIST LOCATIONS BEFORE CREATING NEW

NEW ROOF PENETRATIONS PER STRUCTURAL.

PENETRATIONS IN ROOF. PROVIDE STRUCTURAL FRAMING AROUND ALL

3. SEE PIPE MATERIAL SCHEDULE ON SHEET P600 FOR NATURAL GAS PIPING

4. COORDINATE WITH STRUCTURAL ENGINEER ON INSTALLATION OF NEW

5. PROVIDE GAS PIPE SUPPORTS AT A MAXIMUM OF EVERY 8'-0" O.C. SEE

6. CONTRACTOR SHALL ENSURE ALL INTAKES ON ROOFTOP UNITS AND MAKE-UP AIR UNITS ARE A MINIMUM OF 10'-0" AWAY FROM EXHAUST FANS,

1. INSTALL EXHAUST FAN ON ROOF CURB. SEE DETAILS 6/M500 AND 7/M500 FOR KITCHEN HOOD EXHAUST FAN DETAILS. EXHAUST FAN AND CURB

MANUFACTURER'S REQUIREMENTS. SEE DETAIL 2/M500. COORDINATE WITH KITCHEN VENDOR SUPPLIER AND STRUCTURAL ENGINEER. WALK-IN CONDENSING UNIT SUPPLIER BY KITCHEN EQUIPMENT SUPPLIER AND

3. INSTALL MAKE-UP AIR UNIT LEVEL ON ROOF CURB. ANCHOR ROOF CURB TO STRUCTURE. COORDINATE WITH STRUCTURAL ENGINEER. REFERENCE DETAIL 6/M500 FOR ROOF CURB AND DUCT ISOLATION DETAILS. MAKE-UP AIR UNIT AND CURB FURNISHED BY KITCHEN EQUIPMENT VENDOR AND

4. PROVIDE AND INSTALL REFRIGERANT PIPING SUPPORTS PER DETAIL 10/M500. ROUTE REFRIGERANT PIPING DOWN TO ASSOCIATED

EVAPORATOR COIL, FAN COIL UNIT OR ICE MACHINE.CONTRACTOR SHALL FIELD DETERMINE BEST ROUTING. SEE DETAIL 5/M500 FOR TYPICAL

5. INSTALL EXHAUST FAN ON ROOF CURB. SEE DETAIL 8/M500 FOR EXHAUST

6. EXISTING ROOFTOP UNIT TO REMAIN. SEE ROOFTOP UNIT SCHEDULE ON

7. NEW GAS WATER HEATER CONCENTRIC VENT TERMINATION. SEE DETAIL

1. PROVIDE 480V, 3-PHASE CONNECTION TO INTEGRAL DISCONNECT

2. PROVIDE INTERLOCK WIRING WITH GREASE HOOD CONTROLS AND INTERLOCK WITH ANSUL SYSTEM TO SHUT-DOWN UNIT(S) UPON

3. PROVIDE 30-AMP, 208V, 3-POLE, NON-FUSIBLE DISCONNECT SWITCH IN NEMA-3R ENCLOSURE FOR WALK-IN COOLER CONDENSER. INSTALL WITHIN 5-FT OF EQUIPMENT. VERIFY LOCATIONS WITH KITCHEN EQUIPMENT

4. PROVIDE 480V, 3-PHASE CONNECTION TO INTEGRAL DISCONNECT SWITCH FOR KITCHEN EXHAUST FAN. VERIFY LOCATIONS WITH KITCHEN

1. CONNECT NATURAL GAS TO MAKE-UP AIR UNIT GAS INLET. PROVIDE SHUT-OFF VALVE, UNION, TEE AND 6-INCH DIRT LEG. SEE DETAIL 3/P500 FOR

2. CONNECT 2-1/2" NG PIPE TO EXISTING PIPE STUB-UP THROUGH ROOF. INSTALL NEW UTILITY GAS METER ON EXISTING HEADER. COORDINATE

3. TRAP AND PIPE MECHANICAL EQUIPMENT CONDENSATE PER DETAIL 10/P500. ROUTE DRAIN PIPE TOWARDS NEAREST ROOF DOWNSPOUT, A

6. SEE DETAIL 8/P500 FOR TYPICAL GAS PIPE ROOF PENETRATION DETAIL.

5. PROVIDE 120V CONNECTION TO INTEGRAL DISCONNECT SWITCH

6. PROVIDE AND INSTALL SURFACE-MOUNTED GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE TO SIDE OF MAKE-UP AIR UNIT. COORDINATE LOCATION WITH ACCESSIBLE PANELS ON EQUIPMENT.

VERIFY LOCATIONS WITH KITCHEN EQUIPMENT VENDOR.

PANEL TO SHUT DOWN UPON ACTIVATION OF SYSTEM.

SWITCHES ASSOCIATED WITH MAKE-UP AIR UNIT FAN AND CONDENSER.

ACTIVATION OF ANSUL SYSTEM. INTERLOCK WITH FIRE ALARM CONTROL

FURNISHED BY KITCHEN EQUIPMENT VENDOR AND INSTALLED BY

2. PLACE CONDENSING UNIT ON EQUIPMENT RAILS. INSTALL PER

DETAIL 9/P500 FOR TYPICAL ROOF GAS PIPE SUPPORT.

PLUMBING VENTS AND GAS WATER HEATER FLUES.

**MECHANICAL PLAN NOTES: #** 

INSTALLED BY MECHANICAL CONTRACTOR.

INSTALLED BY MECHANICAL CONTRACTOR.

REFRIGERANT PIPE PENETRATION DETAIL.

SHEET M600 FOR REBALANCING OF AIRFLOWS.

**ELECTRICAL PLAN NOTES:** #

FAN DETAILS.

SUPPLIER.

EQUIPMENT VENDOR.

ASSOCIATED WITH EXHAUST FAN.

PLUMBING PLAN NOTES: #

WITH GAS UTILITY COMPANY.

MINIMUM OF 10-FEET AWAY FROM UNIT.

4. EXISTING VENT THRU TO ROOF TO REMAIN.

5. EXISTING ROOF DRAINS TO REMAIN.

ROOFTOP EQUIPMENT GAS CONNECTION DETAIL.

MECHANICAL CONTRACTOR.



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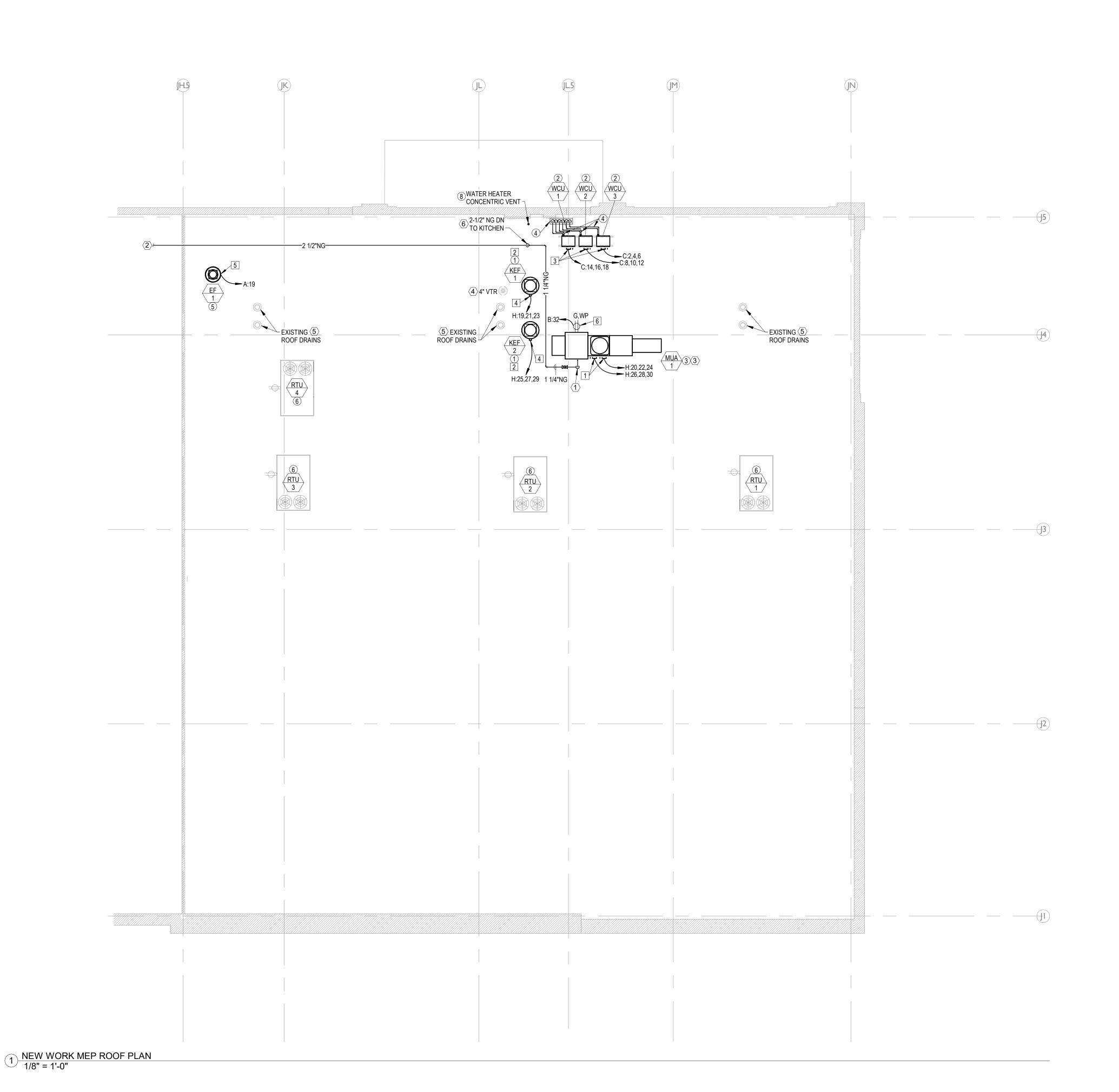
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MEP NEW WORK ROOF PLAN

MEP101



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10"ø SA

1 DEMOLITION MECHANICAL PLAN 1/8" = 1'-0"

22"ø SA

20"x16" SA

- 1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. TH CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
- 2. CONTRACTOR SHALL VERIFY EXISTING DUCTWORK SIZE AND LOCATIONS

# PLAN NOTES: #

- 1. REMOVE EXISTING SUPPLY AIR TERMINAL. REMOVE BRANCH DUCTWORK BACK TO MAIN TRUNK DUCT AS SHOWN. SEE SHEET M2 FOR NEW
- EXHAUST DUCTWORK.
- 5. REMOVE AND RELOCATE EXISTING CONTROL DEVICE. PSEE SHEET M100 FOR NEW LOCATION.

# **GENERAL NOTES**

- CONTRACTOR SHALL PATCH ANY NEW/UNUSED HOLES IN EXISTING DUCTWORK CREATED BY DEMOLITION AIR TIGHT.

- LOCATION.
- 2. REMOVE EXISTING EXHAUST FAN, CONTROLS AND ALL ASSOCIATED
- 3. EXISTING SUPPLY DIFFUSER TO REMAIN. MAINTAIN EXISTING AIRFLOW.
- 4. REMOVE EXISTING RETURN AIR GRILLE.
- 6. REMOVE AND RELOCATE EXISTING SUPPLY DIFFUSER. SEE SHEET M100 FOR NEW LOCATION.

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**MECHANICAL DEMOLITION PLAN** 

**GENERAL NOTES** 

CONSTRUCTION.

INLET/OUTLET DETAIL.

PLAN NOTES: **#** 

INFORMATION.

ACCESSIBLE LOCATION.

TEMPERATURE SENSING.

9. INSTALL PER DETAIL 9/M500.

2. DUCT SIZES SHOWN ARE AIR OPENING SIZE.

SHEET DM100 FOR ADDITIONAL INFORMATION.

MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY

ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO

3. SEE SHEET 1/M500 FOR TYPICAL FLEXIBLE CONNECTION TO AIR

1. RELOCATED SUPPLY AIR TERMINAL. BALANCE AIRFLOW AS NOTED. SEE

2. EXISTING SUPPLY DIFFUSER TO REMAIN. BALANCE AIRFLOW AS NOTED.

FURNISHED BY KITCHEN VENDOR AND INSTALLED BY MECHANICAL

5. PROVIDE 16" ROUND TAKE-OFF WITH INTEGRAL DAMPER TO BOTTOM OF

CONNECT TO PERFORATED SUPPLY PLENUM SUPPLY CONNECTION.

6. INSTALL MANUAL VOLUME DAMPER IN DUCT DROP DOWN TO GRILLE IN

7. INSTALL FOUR (4) RELOCATED PROGRAMMABLE THERMOSTAT CONTROLS,

DEVICES ON WALL. TEMPERATURE SENSING TO BE DEACTIVATED FOR

8. INSTALL NEW TWO (2) 3" ROUND PVC WATER HEATER FLUES FROM INTAKE

10. WALK-IN EVAPORATOR COIL PROVIDED BY KITCHEN EQUIPMENT SUPPLIER

11. PROVIDE TRANSITION AS REQUIRED FROM ROOFTOP EQUIPMENT

AND INSTALLED BY MECHANICAL CONTRACTOR.

INLET/OUTLET TO CONNECT TO NEW DUCTWORK.

THERMOSTAT. USE TEMPERATURE SENSOR LOCATED IN THE SPACE FOR

AND EXHAUST CONNECTIONS FROM WATER HEATER UP TO CONCENTRIC

VENT ON TEH ROOF. SEE SHEET MEP101 FOR ADDITIONAL INFORMATION.

ONE FOR EACH RTU ON WALL IN CORRIDOR 110. COORDINATE FINAL LOCATION WITH TENANT/ARCHITECT, LIGHT SWITCHES AND OTHER

PROVIDE ROUND TO RECTANGULAR TRANSITION AS REQUIRED AS PSP

MAKE-UP AIR DUCTWORK. PROVIDE AND INSTALL FLEX DUCT AND

TO INSTALLATION OF MAKE-UP AIR AND EXHAUST DUCTWORK.

CONTRACTOR. COORDINATE WITH KITCHEN EQUIPMENT VENDOR PRIOR

3. RELOCATED CONTROL DEVICE. SEE SHEET DM100 FOR ADDITIONAL

4. NEW KITCHEN HOOD AND PERFORATED SUPPLY PLENUM (PSP)



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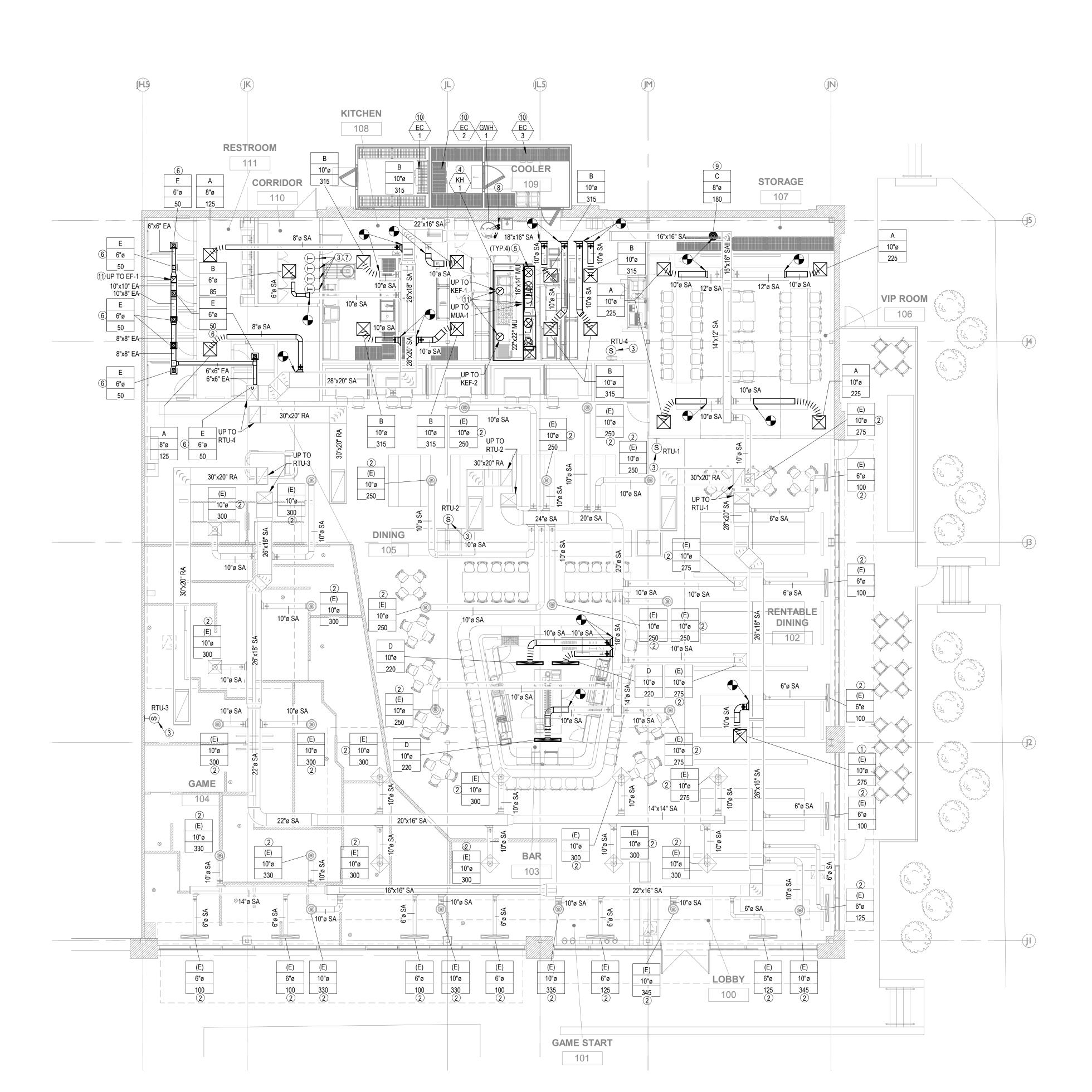


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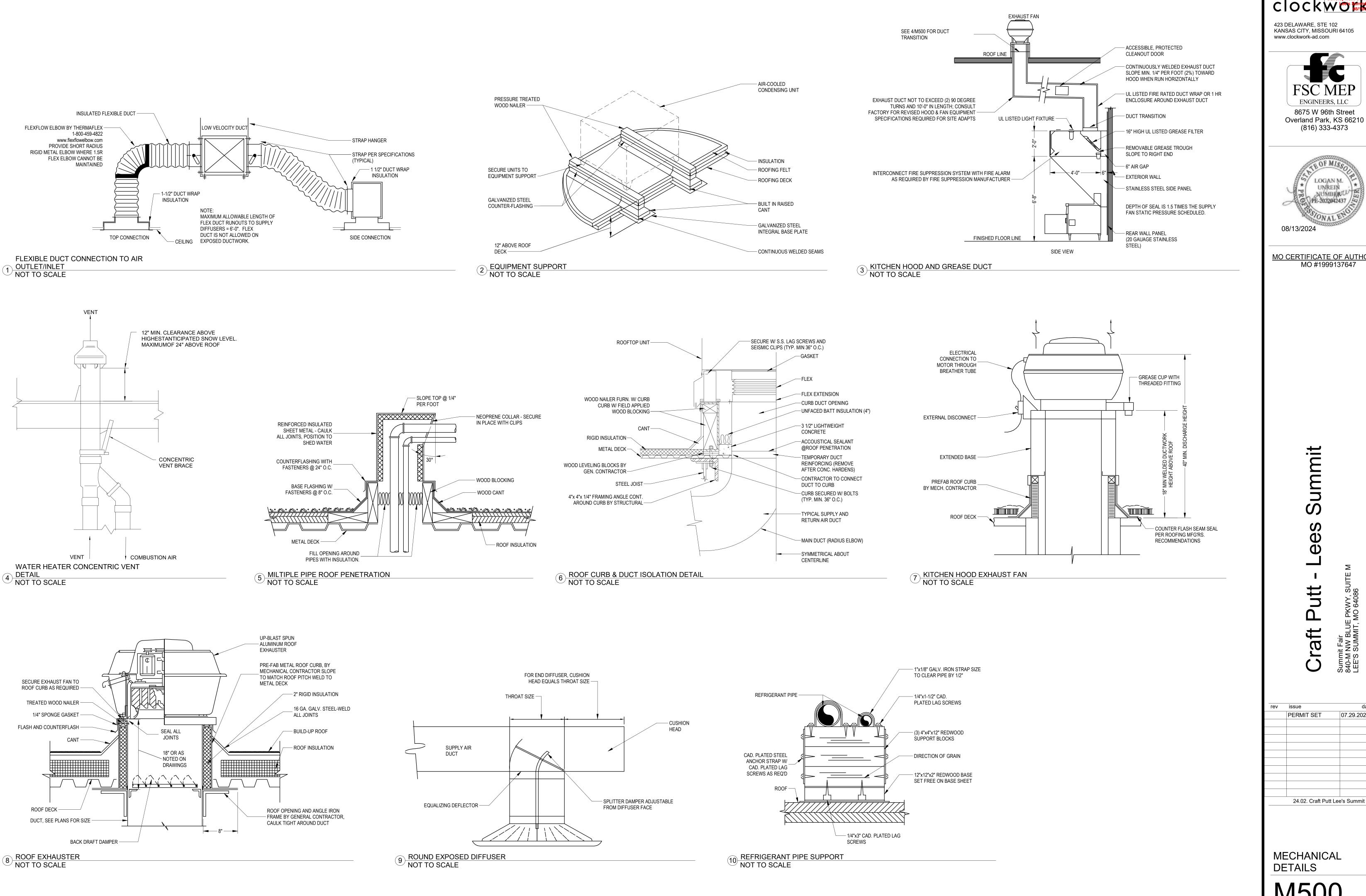
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MECHANICAL NEW **WORK PLAN** 

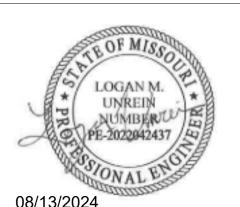


1 NEW WORK MECHANICAL PLAN 1/8" = 1'-0"



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	As Noted on Plans Review
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MECHANICAL SCHEDULES

					ľ	MAK	E-UP	AIR U	INIT	(MUA	A) SCH	IEDUL	E								
					AIR FLOV	V			HEA	ÀTING	-	FAI	N ELECT	RICAL		COND	ENSER E	LECTRIC	CAL		
TAG	MANUFACTURER	MODEL	CFM	CFM	HP	RPM	ESP (IWG)	TYPE	CAPACI	TY MBH	EFFICIENCY	VOLTAGE/ PHASE	FLA	MCA	MOCP	VOLTAGE/ PHASE	FLA	MCA	MOCP	WEIGHT	REMARKS
			DESIGN	MIN.					INPUT	OUTPUT		FIAGE				FIIAGE					
MAU-1	CAPTIVEAIRE	A2-D.250-20D-MPU	2520	2000	1.00	1176	0.50	NAT. GAS	186.6	171.7	92.00	460/3	1.7	2.7	15	460/3	8.5	10.5	15	1362	1,2,3,4,5
IOTEC:																					

1. PROVIDED WITH DISCHARGE AIR TEMPERATURE SENSOR (FIELD ADJUSTABLE) AND AC INTERLOCK RELAY CONTROL FROM KITCHEN EXHAUST HOOD ON/OFF SWITCH (FURNISHED BY KITCHEN EQUIPMENT SUPPLIER). 2. MAKE-UP AIR UNIT, ELECTRICAL BOX, AND SUPPLY DUCTS FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY CONTRACTORS. COORDINATE WITH SUPPLIER PRIOR TO INSTALLATION.

3. PROVIDE WITH MOTORIZED BACKDRAFT DAMPER (FURNISHED WITH UNIT).

4. UNIT TO HAVE LOW FIRE START AND AN INLET PRESSURE GAUGE OF 0 TO 35' WC AND MANIFOLD PRESSURE GAUGE OF -5 TO 15' WC.

5. UNITS TO BE SUPPLIED WITH INTEGRAL DISCONNECT SWITCHES FOR FAN AND CONDENSING UNIT.

				EX	(ISTI	NG P	ACKA	GE	RO	OFTO	P UNIT	S (RTU	l)					
			E	VAPORATO	R							HEATING	-		EI	LECTRICA	L	
_	MANUEACTURER	MODEL	CF	=M	LIB		CAPACITY MBH (NET)	NOM.	NO.	EER/ SEER	T) (DE	HEATING	INPUT	OUTPUT	VOLTAGE/	1404	MOOD	NOTEO
Tag	MANUFACTURER	MODEL	SA	OA	HP	OD AMB	TOTAL	TONS	COMP./ STAGES	@ AHRI	TYPE	STAGES	(KW)	(MBH)	PHASE	MCA	MOCP	NOTES
RTU-1	LENNOX	LCH120	3795	1695	3.00	98.0	142.60	10.0	2/2	12.2	ELECTRIC	2.0	45.0	141.1	460/3	74.0	80	1
RTU-2	LENNOX	LCH120	3735	1560	3.00	98.0	142.60	10.0	2/2	12.2	ELECTRIC	2.0	45.0	141.1	460/3	74.0	80	1
RTU-3	LENNOX	LCH120	4175	1680	3.00	98.0	142.60	10.0	2/2	12.2	ELECTRIC	2.0	45.0	141.1	460/3	74.0	80	1
RTU-4	LENNOX	LCH120	4030	1490	3.00	98.0	142.60	10.0	2/2	12.2	ELECTRIC	2.0	45.0	141.1	460/3	74.0	80	1,2

1. PROVIDE A RELAY TO EF-1 CONNECTED TO PROGRAMMABLE THERMOSTAT. THE EXHAUST FAN SHALL OPERATE WHENEVER THE SUPPLY FAN FOR RTU-4 IS IN OPERATION.

2. EXISTING TO REMAIN. REBALANCE AIRFLOWS AS NOTED.

						IEN HOOI	D (KH	I) AN	ID K	ITCHI	EN E	EXHA	UST	FAN (KE	F) SCH							
				RO	OFTOP EX	HAUST FAN										K	CITCHEN HO	OOD				
T	AG MANUFACTURER	MODEL	CFM	ESTIMATED ESP (IN W.G.)	POWER (HP)	E	ELECTRICAL			WEIGHT (LBS)	RPM	NOTES	TAG	MANUFACTURER	MODEL	EXHAUST CFM	SUPPLY CFM	EA OPENING	SUPPLY E OPENINGS E		WEIGHT (LBS)	NOTES
						VOLTAGE PHASE	FLA	MCA	MOCP	-								DIA.		, ,	. ,	

KEF-2

1. INSTALL UPBLAST FAN ON FACTORY CURB (CURB FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY MECHANICAL CONTRACTOR). INSTALL ON EXISTING GREASE GUARD.

2. UNIT TO BE SUPPLIED WITH FAN SPEED CONTROLLER AND INTEGRAL DISCONNECT SWITCH (FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY CONTRACTOR)

3. KITCHEN HOOD FURNISHED AND INSTALLED BY KITCHEN EQUIPMENT SUPPLIER.

DU85HFA

DU85HFA

4. PROVIDED WITH AC INTERLOCK RELAY CONTROL FROM ASSOCIATED KITCHEN EXHAUST HOOD ON/OFF SWITCH. 5. EXHAUST FAN PROVIDED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY MECHANICAL CONTRACTOR.

SUMMER	INSIDE TEMPERATURE/HUMIDITY	74°F DB/50% RH
SUMMER	OUTSIDE TEMPERATURE	96°F DB/77°F WB
WINTER	INSIDE TEMPERATURE	72°F DB
VVIIVIER	OUTSIDE TEMPERATURE	6°F DB *
	ROOF U-VALUE	0.04 BTU/(hxFT.SQ.x°F)
	WALL U-VALUE	0.2219 BTU/(hxFT.SQ.x°F)
BUILDIN	WINDOW U-VALUE	0.550 BTU/(hxFT.SQ.x°F)
G	SHADING COEFFICENT	0.46
	LIGHTS	1.1 WATTS/S.F.
	PEOPLE	PER IMC 2012

		AIR I	NLET/OUTLET SCHEDULE		
TAG	MANUFACTURER	MODEL	TYPE	FACE SIZE	NOTES
Α	TITUS	OMNI	STEEL SUPPLY DIFFUSER	24x24	1,2,3
В	TITUS	PAS	STEEL SUPPLY DIFFUSER	24X24	1,2
С	TITUS	TMR	ROUND, DUCT MOUNTED DIFFUSER	(SEE DWGS)	1,2
D	TITUS	TDB-30	4' LONG LINEAR SLOT DIFFUSER	4' LONG	1,3,4
Е	TITUS	PAR-AA	PERFORATED ALUMINUM EXHAUST GRILLE	12x12	1,2,3

1. DIFFUSER FINISH COLOR TO MATCH ADJACENT CEILING FINISH PER THE ARCHITECTURAL DRAWINGS.

2. PROVIDE WITH OPPOSED BLADE DAMPER. 3. PROVIDE HARD FRAME FOR AIR DEVICES INSTALLED IN HARD CEILINGS/WALLS (SEE DWGS).

4. PROVIDE SLOT DIFFUSER WITH (3) 1" SLOTS.

CAPTIVEAIRE

CAPTIVEAIRE

		E	XHAUS1	ΓFA	N SCHED	ULE				
TAG	MANUFACTURER	MODEL	TYPE	CFM	ESTIMATED ESP (IN W.G.)	E	LECTRICAL		RPM	NOTES
					VV.G.)	VOLTAGE	PHASE	HP		
EF-1	COOK	ACRUD 150RH15D	ROOF UPBLAST	400	0.500	120	1	0.071	914	1,2,3,4
OTES:										
UNIT TO	) BE SUPPLIED WITH F	FACTORY MOUNTED D	ISCONNECT AND FAI	N SPFFD (	CONTROLLER					

1130

ROOM

NUMBER

102

**RTU-1 TOTALS** 

101

**ROOM NAME** 

RENTABLE DINING

GAME START

LOBBY DINING (1/6)

1. UNIT TO BE SUPPLIED WITH FACTORY MOUNTED DISCONNECT AND FAN SPEED CONTROLLER. 2. PROVIDE RELAY TO PROGRAMMABLE THERMOSTAT FOR RTU-4, SO THAT WHEN RTU-4 IS IN THE OCCUPIED MODE, EF-1 RUNS CONTINUOUSLY.

3. INSTALL FAN ON FACTORY CURB PER THE MANUFACTURER'S SPECIFICATIONS.

2520

(2) 14" (4) 8"x 36" 0.872

	4. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SC

CAPTIVEAIRE 5424 ND-2-PSP-F 3150

TAG	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	RETURN AIR CFM	PRESSURIZATION AIR CFM	NOTE
RTU-1	3795	1695	-	2100	1695	2
RTU-2	3735	1560	-	2175	1560	2
RTU-3	4175	1680	-	2495	1680	2
RTU-4	4030	1490	-	2540	1490	2
EF-1	-	-	400	-	-400	1
KEF-1	-	-	1575	-	-1575	3
KEF-2	-	-	1575	-	-1575	3
MUA-1	-	2520	-	-	2520	4
TOTAL	15735	8945	3550	9310	5395	

2. SIZED PER IMC CHAPTER 4 TABLE 403.3. SEE OUTSIDE AIR CALCUALTIONS ON THIS SHEET. 3. AIR EXHAUSTED THROUGH KITCHEN HOOD. SEE KITCHEN HOOD AND EXHAUST FAN SCHEDULE.

4. MAKE-UP AIR FEEDS PERFORATED SUPPLY PLENUM AT HOOD.

			INSU	JLATION					
SYSTEM	TYPE	TEMPERATURE RATING	THERMAL CONDUCTIVITY	THICKNESS	DUCT SIZE	FITTING COVERS	LAGGING	SUPPORT	NOTES
SUPPLY DUCTS	TYPE 1, FLEXIBLE GLASS FIBER BLANKET WITH FOIL-SCRIM-KRAFT VAPOR BARRIER	UP TO 250 DEG. F.	0.26 @ 75 DEG. F.	1-1/2"	ALL SIZES	N/A		N/A	
RETURN DUCTS	TYPE 1, FLEXIBLE GLASS FIBER BLANKET WITH FOIL-SCRIM-KRAFT VAPOR BARRIER	UP TO 250 DEG. F.	0.26 @ 75 DEG. F.	1"	ALL SIZES	N/A		N/A	
GREASE EXHAUST DUCT	2-HR, 3M FIRE BARRIER DUCT WRAP WITH FSK JACKET	UP TO 2100 DEG. F.	N/A	1-1/2"	ALL SIZES	N/A		N/Q	1

**RTU-2 OUTSIDE AIR CALCULATIONS** OCCUPANCY CLASSIFICATION DENSITY

**RTU-1 OUTSIDE AIR CALCULATIONS** 

CFM/SQFT

0.18

0.06

0.06

0.18

SQFT

1304

216

533

DENSITY

#/1000

PEOPLE CFM/person

OCCUPANCY CLASSIFICATION

DINING ROOM

LOBBY LOBBY

DINING ROOM

ROOM BASELINE RATE **ROOM NAME** NUMBER SQFT CFM/SQFT PEOPLE CFM/person #/1000 CFM 103 BAR KITCHENS (COOKING) 450 0.12 152 105 **DINING (1/2)** DINING ROOM 1600 0.18 112 0.8 1410 RTU-2 TOTALS

**RTU-3 OUTSIDE AIR CALCULATIONS** ROOM OCCUPANCY BASELINE RATE **ROOM NAME** Pz NUMBER CLASSIFICATION DENSITY SQFT CFM/SQFT #/1000 PEOPLE CFM/person CFM 104 ARCADE 1215 533 105 **DINING (1/6)** DINING ROOM 0.18 8.0 467 RTU-3 TOTALS

RTU-4 OUTSIDE AIR CALCULATIONS OCCUPANCY CLASSIFICATION ROOM BASELINE RATE **ROOM NAME** Ez Pz NUMBER DENSITY SQFT 118 CFM/SQFT #/1000 PEOPLE CFM 110 CORRIDOR CORRIDOR 0.06 108 KITCHEN KITCHENS (COOKING) 1012 0.12 8.0 339 111 RESTROOM RESTROOM 570 0.8 107 STORAGE 138 STORAGE 106 VIP ROOM DINING ROOM 740 0.18 0.8 654 105 **DINING (1/6)** DINING ROOM 533 0.18 7.5 8.0 467 **RTU-4 TOTALS** 

# **GENERAL NOTES**

- 1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
- 2. WHERE FLOOR MOUNTED FIXTURES ARE CALLED TO BE REMOVED, PATCH ARCHITECTURAL PLANS.
- 4. MAINTAIN/RESTORE ANY EXISTING CIRCUITS SERVING DEVICES TO REMAIN WHICH MAY BE ON THE SAME CIRCUIT AS DEVICE INDICATED TO BE REMOVED.
- DEMOLITION.
- 6. REMOVE ALL EXISTING LOW-VOLTAGE SECURITY, DATA AND A/V DEVICES. COORDINATE WITH OWNER AND LANDLORD PRIOR TO REMOVAL.

# PLAN NOTES: #

- 1. EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- 2. REMOVE EXISTING DEVICE. REMOVE ALL ASSOCIATED WIRES, CABLES AND CONDUITS BACK TO NEAREST J-BOX. IF DEVICE TO BE REMOVED IS A DATA DEVICE, REMOVE ASSOCIATED CABLES AND CONDUITS BACK TO SOURCE.
- 5. EXISTING JUNCTION BOX FOR SIGNAGE TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- 6. EXISTING FIRE ALARM DEVICE TO REMAIN.
- LOCATION.
- CIRCUIT BREAKER(S).

- FLOORS TO MATCH EXISTING TO REMAIN FLOOR/FINISHES OR PREP FOR NEW FLOOR BY OTHERS. VERIFY NEW WORK SCOPE OF FLOOR AND FINISHES ON
- 3. REMOVE CONDUIT STUB UPS AND CAP EXISTING BELOW SLAB CONDUITS NOT TO BE USED IN NEW WORK CONCEALED BELOW FLOOR.
- 5. CONTRACTOR SHALL FIELD VERIFY BRANCH CIRCUIT SOURCE PANEL AND NUMBER OF ANY EXISTING TO REMAIN DEVICES AND FIXTURES PRIOR TO

- 3. EXISTING PANELBOARD TO REMAIN. MAINTAIN EXISTING CIRCUIT BREAKERS AND
- 4. REMOVE EXISTING DEVICE ASSOCIATED WITH MECHANICAL/PLUMBING EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED WIRES, CABLES, AND CONDUITS BACK TO SOURCE
- 7. REMOVE AND RELOCATE EXISTING FIRE ALARM DEVICE. SEE SHEET EP100 FOR NEW
- 8. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND

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> Sum Craft Putt

Summit Fair 840-M NW BLUE PKWY, SUITE LEE'S SUMMIT, MO 64086

07.29.2024 24.02. Craft Putt Lee's Summit

ELECTRICAL DEMOLITION PLAN

DE100

1 ELECTRICAL DEMOLITION PLAN 1/8" = 1'-0"

1 DEMOLITION LIGHTING PLAN
1/8" = 1'-0"

# **GENERAL NOTES**

- 1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
- 2. MAINTAIN/RESTORE ANY EXISTING CIRCUITS SERVING DEVICES TO REMAIN WHICH MAY BE ON THE SAME CIRCUIT AS DEVICE INDICATED TO BE REMOVED.
- 3. CONTRACTOR SHALL FIELD VERIFY BRANCH CIRCUIT SOURCE PANEL AND NUMBER OF ANY EXISTING TO REMAIN DEVICES AND FIXTURES PRIOR TO DEMOLITION.

# PLAN NOTES: #

- 1. EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- REMOVE EXISTING LIGHT FIXTURE AND CONTROLS. REMOVE ALL ASSOCIATED WIRES, CABLES AND CONDUITS BACK TO THE NEAREST J-BOX.
- 3. EXISTING LIGHTING CONTROL PANEL TO REMAIN.
- NEW LOCATION.

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07.29.2024

LIGHTING **DEMOLITION PLAN** 

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08/13/2024

# 1 NEW WORK ELECTRICAL PLAN 1/8" = 1'-0"

# **GENERAL NOTES**

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
  - VAPOR BARRIER AND FLOOR SLAB AND CONCEALED UP IN WALL TO ACCESSIBLE SPACE ABOVE CEILING.

- SYSTEM.CONTRACTOR SHALL ENSURE REMOTE FIRE PULL STATION IS LOCATED A MINIMUM OF 10'-0" AND A MAXIMUM OF 20'-0" FROM THE TYPE 1 HOOD. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER SEE DETAIL 2/E601.
- 4. PROVIDE 120V CONNECTION FOR CIRCULATION PUMP AND TIMER. PROVIDE MOTOR RATED TOGGLE SWITCH AS DISCONNECTING MEANS FOR HOT WATER CIRCULATION PUMP. INSTALL PER MANUFACTURERS RECOMMENDATIONS. J-BOX AND SWITCH ABOVE ACCESSIBLE CEILING.
- 5. PROVIDE 120V CONNECTION TO GAS SOLENOID VALVE. SOLENOID VALVE TO SHUT OFF GAS FLOW TO GAS LINE UPON ACTIVATION OF ANSUL CONNECT TO NEW NEW HOOD CONTROL PANEL.
- 6. USE EXISTING JUNCTION BOX AND CIRCUITRY FOR NEW SIGNAGE. MAINTAIN EXISTING BRANCH CIRCUITRY AND CIRCUIT BREAKER(S). MAINTAIN EXISTING AUTO ON/OFF CONTROLS FOR SIGNAGE.
- 7. PROVIDE AND INSTALL (1) DUPLEX BOX WITH 15-AMP DUPLEX RECEPTACLES AND (1) DUPLEX BOX FOR DATA CONNECTIONS FOR POLE-MOUNTED MONITOR SCREENS OR PROJECTOR AT THE CEILING.
- FIELD LOCATE ELECTRICAL CONNECTION PER THE MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH TENANT AND ARCHITECT PRIOR TO
- ARCHITECT/TENANT PRIOR TO ROUGH-IN.
- 10. PROVIDE AND INSTALL QUAD RECEPTACLE AND DATA OUTLET WITH DATA FOR POS. COORDINATE DEVICE LOCATIONS, QUANTITY OF DATA CONNECTIONS AND MOUNTING HEIGHTS AFF WITH OWNER PRIOR TO ROUGH-IN.
- 13. EXISTING FIRE ALARM DEVICE TO REMAIN.
- 16. PROVIDE AND INSTALL NEW FIRE ALARM DEVICE AND CONNECT TO EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL VERIFY COMPATIBILITY WITH EXISTING
- 18. EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- ELECTRICAL EQUIPMENT.
- 22. PROVIDE 120V CONNECTION IN CONCEALED LOCATION FOR WALL-MOUNTED

- 2. PROVIDE PULL CORDS IN EMPTY CONDUITS TO BE PROVIDED FOR ALARM, NETWORK DATA AND MULTI-MEDIA OUTLETS.
- 3. ALL CONDUITS RUN THROUGH WALLS TO UNDERFLOOR TO BE ROUTED BETWEEN
- 4. CONTRACTOR SHALL SAW CUT EXISTING SLAB TO RUN ANY BELOW SLAB
- 5. WHERE EXPOSED, IN GUEST-FACING AREA, ALL WIRING AND CABLING SHALL BE INSTALLED IN CONDUIT PAINTED TO MATCH ADJACENT SURFACES.

# PLAN NOTES: #

- 1. PROVIDE 208V, SINGLE-PHASE MOTOR-RATED SWITCH FOR COOLER EVAPORATOR. INSTALL PER MANUFACTURERS SPECIFICATIONS.
- 2. PROVIDE 120V CONNECTION TO TYPE I HOOD CONTROL PANEL. E.C. SHALL PROVIDE ALL INTERLOCK WIRING TO GAS LINE-UP SOLENOID, HOOD EXHAUST FANS AND HOOD MAKE-UP AIR UNITS AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.
- 3. PROVIDE REMOTE FIRE PULL FOR ACTIVATION OF HOOD ANSUL
- COORDINATE WITH PLUMBING CONTRACTOR. CONTRACTOR SHALL FIELD LOCATE

- 8. PROVIDE 120V CONNECTION WITH ACCESS TO DATA FOR POS WALL MONITOR.
- 9. PROVIDE SURFACE-MOUNTED QUAD RECEPTACLE AND DATA OUTLET FOR WALL-MOUNTED TV. COORDINATE MOUNTING HEIGHT AND DEVICE LOCATION WITH
- 11. PROVIDE 120V CONNECTION AT THE CEILING FOR CORD REEL (CORD REEL PROVIDED BY KITCHEN EQUIPMENT VENDOR) PER THE MANUFACTURER'S SPECIFICATIONS.
- 12. EXISTING SHOW WINDOW RECEPTACLE TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- 14. RELOCATED FIRE ALARM DEVICE. SEE SHEET DE100 FOR ADDITIONAL
- 15. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- 17. EXISTING PANELBOARD TO REMAIN. MAINTAIN EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUITRY.
- 19. SEE ONE-LINE DIAGRAM ON SHEET E601 FOR ADDITIONAL INFORMATION ON
- 20. PROVIDE 120V, 15-AMP DISCONNECT SWITCH IN NEMA-1 ENCLOSURE FOR GAS WATER HEATER. CONNECT PER MANUFACTURER'S SPECIFICATIONS.
- 21. PROVIDE 120V CONNECTION TO PUTT PUTT HOLE OR GAME PODIUM. COORDINATE WITH MANUFACTURER AND OWNER.
- MARQUEE LETTERS. COORDINATE WITH OWNER AND MANUFACTURER FOR CIRCUITING AND CONNECTION REQUIREMENTS.
- 23. CIRCUIT NOTED BRANCH CIRCUIT THROUGH LIGHTING CONTROL PANEL FOR AUTOMATIC ON/OFF CONTROL DURING BUSINESS HOURS. SEE LIGHTING CONTROL PANEL SCHEDULE ON SHEET E601 FOR ADDITIONAL INFORMATION.

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**ELECTRICAL NEW WORK PLAN** 

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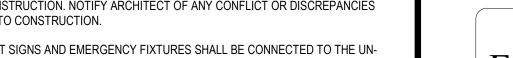
1 LIGHTING NEW WORK PLAN 1/8" = 1'-0"

# **GENERAL NOTES:**

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- 2. ALL EXIT SIGNS AND EMERGENCY FIXTURES SHALL BE CONNECTED TO THE UN-SWITCHED "HOT LEG" OF LIGHTING CIRCUIT.
- 3. LOCATE ALL JUNCTION BOXES WITH WHIPS FOR LIGHT FIXTURES ABOVE ACCESSIBLE CEILING. IF LOCATED ABOVE INACCESSIBLE CEILING, PROVIDE
- FIXTURES AND INSTALLATION HEIGHTS AFF.
- FIXTURES ARE TO BE PAINTED.

# PLAN NOTES: #

- 2. CIRCUIT NOTED SWITCH LEGS IN BRANCH CIRCUIT THROUGH LIGHTING CONTROL PANEL FOR AUTOMATIC ON/OFF CONTROL OF LIGHTING DURING BUSINESS HOURS. SEE LIGHTING CONTROL PANEL SCHEDULE ON SHEET E601 FOR ADDITIONAL INFORMATION.
- 3. CONNECT LIGHT FIXTURE TO UNSWITCHED CIRCUIT.
- WITH CONTROLS AND LIGHT FIXTURES IN SAME ROOM.
- 5. PROVIDE DUAL-TECHNOLOGY OCCUPANCY SENSOR/LIGHT SWITCH COMBINATION. CIRCUIT WITH CONTROLS AND LIGHT FIXTURES IN SAME ROOM.
- 6. LIGHT SWITCH BANK. COORDINATE WITH TENANT ON WHICH SWITCH LEGS THEY DESIRE TO BE CONTROLLED VIA A DIMMER SWITCH. ASSUME ALL SWITCHES TO
- 7. PROVIDE HARD-WIRED CONNECTION TO TYPE F FESTOON LIGHTING ON SWITCH
- 8. PROVIDE WEATHERPROOF HARD-WIRED CONNECTION TO EXTERIOR FESTOON LIGHTING. FIELD COORDINATE ELECTRICAL CONNECTION LOCATION WITH
- 10. ALL LIGHT SWITCHES TO BE DIMMABLE.



- ACCESS PANEL PER THE CEILING MANUFACTURER'S SPECIFICATIONS.
- 4. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONED LOCATIONS OF LIGHT
- 5. SEE ARCHITECTURAL DRAWINGS TO DETERMINE WHICH EXISTING LIGHT

- 1. EXISTING LIGHT FIXTURE TO REMAIN. MAINTAIN EXISTING BRANCH CIRCUITRY AND CIRCUIT BREAKER(S) UNLESS NOTED OTHERWISE.

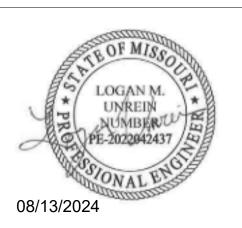
- 4. PROVIDE CEILING-MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR. CIRCUIT
- LEG 'f'. FIELD COORDINATE ELECTRICAL CONNECTION LOCATION WITH ARCHTIECT PRIOR TO ROUGH-IN.
- ARCHTIECT PRIOR TO ROUGH-IN.
- 9. RELOCATED EMERGENCY LIGHT. SEE SHEET DEL100 FOR ADDITIONAL INFORMATION. MAINTAIN EXISTING BRANCH CIRCUITRY AND CIRCUIT BREAKER(S).
- 11. MOUNT FIXTURE AT 9'-0" AFG CENTERED ABOVE DOOR.

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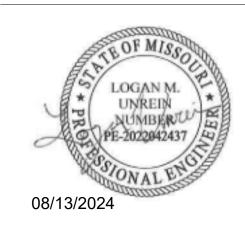


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LIGHTING NEW **WORK PLAN** 



MO CERTIFICATE OF AUTHORITY MO #1999137647

Craft

07.29.2024 24.02. Craft Putt Lee's Summit

ELECTRICAL SCHEDULES

EL	BOARD: A													
IN TY	NG: 250 A PE: MCB - 150 A GE: 120/208 (3Ø-4W)	MOUNTING: SURF ENCLOSURE: NEMA				SU			XFMR KITCH	EN 108		MINIMUM AIC 10,000A ACCESSORIES:		
CKT	DESCRIPTION	АМР	Р		<b>A</b>	E	3	(	c	P	AMP	DESCRIPTION	СКТ	NOTES
1	TRACK LIGHTING	20	1	0.24	0.14					1	20	EMERGENCY LIGHTING	2	<b>†</b>
3	TRACK LIGHTING	20	1			0.34	0.04			1	20	TRACK LIGHTING	4	LCP
5	STORAGE ROOM LIGHTING	20	1					0.12	0.03	1	20	TRACK LIGHTING	6	LCP
7	PARTY LIGHTING	20	1	0.69	1.70					1	20	SUSPENDED CYLINDERS	8	LCP
9	BATHROOM LIGHTING	20	1			0.41	0.03			1	20	TRACK LIGHTING	10	LCP
11	PUTT PUTT LIGHTING	20	1					0.29	0.00	1	20	SPARE	12	
	PUTT PUTT FESTOON LIGHTING	3 20		1.00	0.00						20	SPARE	14	1

PANELBOARD: B

MAIN TYPE: MCB - 100 A

**VOLTAGE:** 120/208 (3Ø-4W)

(G) 5 BACK BAR COOLERS

11 VIP ROOM RECEPT.

(G) 19 **CEILING CORD REELS** 

(G) 23 **HEATED HOLDING PROOFING...** 

(G) 35 **SODA/DROP-IN ICE DISPENSER** 

(G) 39 MOBILE HEATED CABINET

(G) 41 **SANDWICH PREP TABLE** 

7 DINING TVS

(G) 21 **DISHMACHINE** 

PANEL SH

(G) 33 **ICE MAKER (G)** 

LOAD CLASSIFICATION

KITCHEN - COMMERCIAL

EQUIPMENT

RECEPTACLE

WATER HEATER

(G) 37 **COFFEE BREWER** 

-- 29 SHUNT TRIP SPACE

(G) 31 **REACH-IN FREEZER** 

ANTI-THEFT SYSTEM

9 RENTABLE DINING TVS

DESCRIPTION

**MOUNTING:** SURFACE

20 1 0.25 0.72

20 1 0.00 0.00

| 13 | KITCHEN CONVENIENCE RECEPT. | 20 | 1 | 1.08 | 0.80 | | | 1 | 20 | POS PRINTER | 15 | KITCHEN CONVENIENCE RECEPT. | 20 | 1 | | 0.54 | 0.00 | | 1 | 20 | BUZZER SYSTEM | 17 | CONVENIENCE RECEPT. | 20 | 1 | | 0.72 | 0.25 | 1 | 20 | EGRESS ALARM | 19 | CEILING CORD REELS | 20 | 1 | 0.72 | 1.44 | | 1 | 20 | HOOD CONTROL PANEL | 21 | DISHMACHINE | 20 | 1 | 1.20 | 0.25 | 1 | 20 | WATER HEATER GWH-1

**TOTAL KVA:** 13.09 kVA 11.35 kVA 10.61 kVA **TOTAL AMPS**: 110 A 96 A 88 A

100.00%

86.97%

65.00%

100.00%

**ENCLOSURE**: NEMA-1

| 13 | KITCHEN CONVENIENCE RECEPT. | 20 | 1 | 1.08 | 0.80 |

CONNECTED LOAD

1800 VA

13524 VA

19476 VA

250 VA

SUPPLY FROM: XFMR

20 1 1.44 0.50 1 20 FACP

0.90 0.72

**LOCATION:** KITCHEN 108

B C P AMP

20 1 0.53 1.08 1 20 BAR/PUTT PUTT TV RECEPT.

30 1 2.00 0.36 1 20 KITCHEN RECEPTACLE

30 2 2.00 0.00 1 20 SPARE

2.88 0.54 1 20 KITCHEN RECEPTACLE

-- 1 -- 0.36 1 20 KITCHEN RECEPTACLE

20 1 0.60 0.90 1 20 ROOFTOP RECEPTACLE

30 1 2.40 0.24 1 20 REACH-IN REFRIGERATOR

30 1 2.00 0.64 1 20 DRAWER WARMERS

20 1 0.26 1.20 1 20 FOOD PAN WARMER,...

1800 VA

11762 VA

12659 VA

250 VA

DEMAND FACTOR ESTIMATED DEMAND

| | 1.08 | 0.36 | 1 | 20 | **KITCHEN MONITORS** 

MINIMUM AIC... 10,000A

CKT NOTES

6

12

14

16

18

22

24 26 --

28

30

32

40

42

38 (G)

ACCESSORIES:

DESCRIPTION

PANEL TOTALS

TOTAL CONNECTED KVA: 35.05 kVA

TOTAL ESTIMATED DEMAND KVA: 26.47 kVA

TOTAL CONNECTED CURRENT: 97 A

TOTAL ESTIMATED DEMAND CURRENT: 73 A

1 20 **PUTT PUTT CONVENIENCE RECEPT.** 

1 20 BAR POS RECEPTACLE

BUS RATING: 250 A

NOTES CKT

-- 3 **SPARE** 

AMP	Р		4	E	3	(		Р	AMP	DESCRIPTION	СКТ	NOTES	NOTES	Ck
20	1	0.00	15.75								2		LCP	1
30	1			0.00	15.75			3	80	RTU-3	4	1	LCP	3
30	1					0.00	15.75				6	1	LCP	5
		15.75	15.75								8		LCP	7
80	3			15.75	15.75			3	80	RTU-4	10	1	LCP	9
						15.75	15.75				12	1	LCP	1
		15.33	32.79								14		LCP	1:
80	3			15.33	28.09			3	125	STEP-DOWN TRANSFORMER	16	1		1:
						15.33	30.12				18	1	LCP	1
		0.21	2.26								20			1
15	3			0.21	2.26			3	15	MAKE-UP AIR UNIT CONDENSER	22	1		2
						0.21	2.26				24	1	LCP	2
		0.21	0.45								26		LCP	2
15	3			0.21	0.45			3	15	MAKE-UP AIR UNIT FAN	28	1	LCP	2

RECEPTACLE

SIGN/DISPLAY

KITCHEN - COMMERCIAL

MINIMUM AIC... 25,000A

**ACCESSORIES:** 

		0.21	0.45							
15	3			0.21	0.45			3	15	MAKE-UP AIR UNIT FAN
						0.21	0.45			
TOTA	L KVA:	98.49	kVA	93.79	kVA	95.82	kVA			
TOTAL	AMPS:	35	7 A	339	9 A	34	7 A			

SUPPLY FROM:

**LOCATION**: KITCHEN 108

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	3
EQUIPMENT	1920 VA	100.00%	1920 VA	TOTAL CONNECTED KVA:	288.09 kVA
HVAC	187711 VA	100.00%	187711 VA	TOTAL ESTIMATED DEMAND KVA:	268.18 kVA
LIGHTING	12898 VA	125.00%	16122 VA	TOTAL CONNECTED CURRENT:	347 A
LIGHTING - EXTERIOR	272 VA	125.00%	340 VA	TOTAL ESTIMATED DEMAND CURRENT:	323 A
MOTORS	9375 VA	100.00%	9375 VA		
RECEPTACLE	17484 VA	78.60%	13742 VA		
SIGN/DISPLAY	1500 VA	125.00%	1875 VA		
KITCHEN - COMMERCIAL	56683 VA	65.00%	36844 VA		
WATER HEATER	250 VA	100.00%	250 VA		

# **GENERAL NOTES**

21 KITCHEN EXHAUST FAN KEF-1

27 KITCHEN EXHAUST FAN KEF-2

PANELBOARD: H

MAIN TYPE: MCB - 400 A

VOLTAGE: 480/277 (3Ø-4W)

SERVICE ENTRANCE RATED

DESCRIPTION

BUS RATING: 400 A

NOTES CKT

-- 3 SPARE

-- 5 SPARE

9 RTU-1

15 RTU-2

- 1. THE TOTAL LOAD SHOWN (VA AND AMPERAGE) ON EXISTING PANELS ARE ADDITIONAL LOADS ADDED OR TAKING THE PLACE OF DEMOLISHED CIRCUIT AND DO NOT REFLECT EXISTING LOADS TO REMAIN.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXISTING LOAD CAPACITIES TO ENSURE ADDED LOADS WILL NOT EXCEED THE EXISTING PANELBOARD AMP RATINGS OR THE AMPERAGE RATINGS OF UPSTREAM CIRCUIT BREAKERS AND FEEDER CONDUCTORS.
- 3. CONTRACTOR SHALL DETERMINE IF ANY CIRCUITS ARE NOT IN USE AFTER DEMOLITION. IF A CIRCUIT IS NOT IN USE, FLIP THE EXISTING BREAKER TO OFF POSITION AND LABEL AS "SPARE."
- 4. ALL BOLDED BRANCH CIRCUITS WITH A BOLDED TRIP RATING AND NUMBER OF POLES IS A NEW CIRCUIT BREAKER INSTALLED IN EXISTING SPACE(S). COORDINATE WITH PANELBOARD MANUFACTURER ON NEW BREAKER REQUIREMENTS.
- 5. ALL BOLDED BRANCH CIRCUIT NAMES ARE NEW CIRCUITS CREATED BY TENANT FINISH OR DEMOLITION.

**MOUNTING:** SURFACE

**ENCLOSURE**: NEMA-1

# PANEL SCHEDULE NOTES LEGEND

(G) = GFCI TYPE BREAKER

(SH) = SHUNT TRIP BREAKER. REFERENCE DETAIL 3/E601.

LCP = CIRCUIT ROUTED THROUGH LIGHTING CONTROL PANEL LCP FOR AUTO ON/OFF CONTROL

Circuit		3 Ph	ase W/ N	eutral				3 Phase					1 Phase		
Breaker			3 Pole					3 Pole				2 F	Pole or 1 F	Pole	
Size (Amps)	No. of Cond.	Hot	No. of Cond.	Ground	Conduit (Inches)	No. of Cond.	Hot	No. of Cond.	Ground	Conduit (Inches)	No. of Cond.	Hot	No. of Cond.	Ground	Condui (Inches
15	4	12	1	12	1/2	3	12	1	12	1/2	2	12	1	12	1/2
20	4	12	1	12	1/2	3	12	1	21	1/2	2	12	1	12	1/2
25	4	10	1	10	1/2	3	10	1	10	1/2	2	10	1	10	1/2
30	4	10	1	10	1/2	3	10	1	10	1/2	2	10	1	10	1/2
40	4	8	1	10	3/4	3	8	1	10	1/2	2	8	1	10	1/2
50	4	6	1	10	3/4	3	6	1	10	3/4	2	6	1	10	3/4
60	4	4	1	10	1	3	4	1	10	1	2	4	1	10	3/4
70	4	4	1	8	1	3	4	1	8	1	2	4	1	8	3/4
80	4	3	1	8	1-1/4	3	3	1	8	1	2	3	1	8	1
90	4	2	1	8	1-1/4	3	2	1	8	1	2	2	1	8	1
100	4	1	1	8	1-1/4	3	2	1	8	1-1/4	2	2	1	8	1-1/4
110	4	1	1	6	1-1/4	3	1	1	7	1-1/4	2	1	1	6	1-1/4
125	4	1	1	6	1-1/4	3	1	1	6	1-1/4	2	1	1	6	1-1/4
130	4	1	1	6	1-1/4	3	1	1	6	1-1/2	2	1	1	6	1-1/4
140	4	1/0	1	6	1-1/2	3	1/0	1	6	1-1/4	2	1/0	1	6	1-1/4
150	4	1/0	1	6	1-1/2	3	1/0	1	6	1-1/4	2	1/0	1	6	1-1/4
160	4	2/0	1	6	2	3	2/0	1	6	1-1/4	2	2/0	1	6	1-1/4
170	4	2/0	1	6	2	3	2/0	1	6	1-1/2	2	2/0	1	6	1-1/4
180	4	3/0	1	6	2	3	3/0	1	6	1-1/2	2	3/0	1	6	1-1/2
190	4	3/0	1	6	2	3	3/0	1	6	1-1/2	2	3/0	1	6	1-1/2
200	4	3/0	1	6	2	3	3/0	1	6	1-1/2	2	3/0	1	6	1-1/2

- 1 FOR EACH CIRCUIT, SIZE THE WIRE BASED ON CIRCUIT BREAKER SIZE SHOWN IN THE PANELBOARD SCHEDULES AS INDICATED ABOVE (UNLESS NOTED OTHERWISE).
- 2 HOT AND NEUTRAL CONDUCTOR SIZING IS BASED ON TABLE 310.16, COPPER CONDUCTORS.
- 3 GROUND CONDUCTOR SIZING IS BASED ON TABLE 250.122, COPPER GROUND CONDUCTOR.
- 4 CONDUIT SIZING IS BASED ON (EMT) WITH TYPE THHN/THWN CONDUCTOR INSULATION.

BU:	S RATI		OUNTING: SURF Closure: Nem <i>p</i>				SU		Y FROM: Cation:				MINIMUM AIC 10,000A ACCESSORIES:		
NOTES	CKT	DESCRIPTION	AMP	Р		A	ı	В		С	P	AMP	DESCRIPTION	СКТ	NOTES
LCP	1	TRACK LIGHTING	20	1	0.24	0.14					1	20	EMERGENCY LIGHTING	2	
LCP	3	TRACK LIGHTING	20	1			0.34	0.04	4		1	20	TRACK LIGHTING	4	LCP
LCP	5	STORAGE ROOM LIGHTING	20	1					0.12	0.03	1	20	TRACK LIGHTING	6	LCP
LCP	7	PARTY LIGHTING	20	1	0.69	1.70					1	20	SUSPENDED CYLINDERS	8	LCP
LCP	9	BATHROOM LIGHTING	20	1			0.41	0.03	3		1	20	TRACK LIGHTING	10	LCP
LCP	11	PUTT PUTT LIGHTING	20	1					0.29	0.00	1	20	SPARE	12	
LCP	13	PUTT PUTT FESTOON LIGHTING	20	1	1.00	0.00					1	20	SPARE	14	
	15	GAMES	20	1			0.50	1.45	5		1	20	DINING LIGHTING	16	LCP
LCP	17	KITCHEN LIGHTING	20	1					0.51	0.00	1	20	SPARE	18	
	19	EXHAUST FAN EF-1	15	1	0.00	1.25					1	20	PUTT PUTT HOLES	20	
	21	INTERIOR SIGNAGE	20	1			0.00	1.25	5		1	20	PUTT PUTT HOLES	22	
LCP	23	EXTERIOR STRING LIGHTS	20	1					0.43	1.25	1	20	PUTT PUTT HOLES	24	
LCP	25	SHOW WINDOW RECEPT.	20	1	1.08	1.00					1	20	PUTT PUTT HOLES	26	
LCP	27	SHOW WINDOW RECEPT.	20	1			0.90	0.00	0		1	20	SPARE	28	
LCP	29	SHOW WINDOW RECEPT.	20	1					0.90	2.08	2	30	OVEN, MICROWAVE (G)	30	(C)
(G)	31	SANDWICH/SALAD PREP FRIDGE	20	1	0.65	2.08					2	30	OVEN, MICROWAVE (G)	32	(G)
LCP	33	BLADE SIGN	20	1			0.50	0.26	6		1	20	WORKTOP REFRIGERATOR	34	(G)
LCP	35	EXTERIOR BUILDING SIGNAGE	20	1					0.50	11.11				36	
LCP	37	EXTERIOR BUILDING SIGNAGE	20	1	0.50	9.38					3	80	PANEL C	38	
(G)	39	SANDWICH PANINI GRILL	20	2			1.80	9.25	5					40	
(6)	41	SANDWICH FANINI GRILL	20						1.80	0.50	1	20	LCP 42		
				AL KVA: . AMPS:		0 kVA 8 A		4 kVA 9 A		2 kVA 6 A					
LOAD C	LASSI	FICATION	CONNECTED LOAD		DE	MAND	FACTO	R	ESTIMA	TED DE	MAND		PANEL TOTALS		
EQUIPM	1ENT		120 VA			100.0	00%			120 VA			TOTAL CONNECTED KVA: 55.96 kVA		
HVAC			0 VA			0.00	)%			0 VA		Т	OTAL ESTIMATED DEMAND KVA: 46.60 kVA		
LIGHTIN	IG		12898 VA	4		125.0	00%		1	6122 VA	١		TOTAL CONNECTED CURRENT: 155 A		
LIGHTIN	IG - EX	TERIOR	272 VA			125.0	00%			340 VA		TOTAL	ESTIMATED DEMAND CURRENT: 129 A		
MOTOR	S		0 VA			0.00	)%			0 VA					
DEGER			00001/4		1	400.0	2001			2000 1 / 4					

100.00%

125.00%

65.00%

3960 VA

1500 VA

37207 VA

3960 VA

1875 VA

24185 VA

MA	IN TYP		IOUNTING: SU Closure: Ne				SU		ROM: B Tion: K	ITCHEN	108	MINIMUM AIC 10,000A ACCESSORIES:		
NOTES	СКТ	DESCRIPTION		AMP	Р		4	I	3	P	AMP	DESCRIPTION	СКТ	NOTES
(G)	1	FRYER (SH)		20	1	0.60	0.60			1	20	FRYER (SH)	2	(G)
(G)	3	WORKTOP FREEZER (SH)		20	1			0.48	1.92	1	20	KITCHEN HOOD	4	(G)
(G)	5	REFRIGERATED BASE (SH)		20	1	0.20				1		EQUIPPED SPACE	6	
(G)	7	RANGE (SH)		20	1			0.48		1		EQUIPPED SPACE	8	
(G)	9	FRYER (SH)		20	1	0.60				1		EQUIPPED SPACE	10	
	11	SPARE		20	1			0.00		1		EQUIPPED SPACE	12	
				TOTA	L KVA:	2.00	kVA	2.88	kVA					
				TOTAL	AMPS:	19	) A	27	Ά					
LOAD CL	ASSIFI	CATION	CONNECTE	ED LOAI	) D	EMAND	FACTO	R ES	STIMATE	D DEMA	ND	PANEL TOTALS		
KITCHEN	- COM	MERCIAL	4884	VA		65.0	00%		317	'5 VA		TOTAL CONNECTED KVA: 4.88 kV/	١	
												TOTAL ESTIMATED DEMAND KVA: 3.17 kV/	١	
												TOTAL CONNECTED CURRENT: 23 A		
									TO	TAL ESTIMATED DEMAND CURRENT: 15 A				

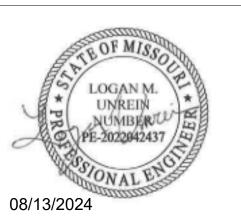
	EL	BOARD: C													
M	AIN TY		OUNTING: S CLOSURE: N						FROM:		EN 108		MINIMUM AIC 10 Accessories:	),000A	
NOTES	СКТ	DESCRIPTION	A	MP P		A	В		(	:	P	AMP	DESCRIPTION	скт	NOTES
	1	VIP ROOM RECEPTACLE	2	20 1	0.36	1.80								2	
	3	VIP ROOM RECEPTACLE	2	20 1			0.36	1.80			3	20	WALK-IN CONDENSER WCU-3	4	
	5	SOLENOID VALVE	2	20 1					0.12	1.80				6	
	7	HOT WATER RECIRC PUMP HWP-1	1	15 1	0.00	1.67								8	
	9	EVAPORATOR COIL EC-3		20 2			1.06	1.67	•		3	20	WALK-IN CONDENSER WCU-2	10	
	11	EVAPORATOR COIL EC-3		20 2					1.06	1.67				12	
	13	EVAPORATOR COIL EC-1	,	20 2	1.06	1.67								14	
	15	EVAPORATOR COIL EC-1		20 2			1.06	1.67	•		3	20	WALK-IN CONDENSER WCU-1	16	
	17	EVAPORATOR COIL EC-2		20 2					1.06	1.67				18	
	19	EVAPORATOR COIL EC-2		20 2	1.06	0.48					1	20	BOTTLE/WINE COOLER	20	(G)
	21						1.21	0.36	5		1	20	BAR RECEPTACLE	22	
(G)	23	HOT FOOD WELLS	2	20 3					1.21	0.18	1	20	BOTTLE COOLER (G)	24	(G)
	25				1.21	1.80					1	20	UNDERCOUNTER DISHWASHER	· <i>'</i>	(G)
(G)	27	UNDERCOUNTER FREEZERS	2	20 1			0.19	0.00	)		1	20	SPARE	28	
(G)	29	ICE MAKER		20 1					0.48		1	20	SPARE	30	
				TOTAL KVA: OTAL AMPS:		1 kVA 3 A	9.38 k		9.25 77	kVA A					
OAD C	LASSIF	FICATION	CONNEC	TED LOAD	DEI	MAND F	ACTOR		ESTIMA	TED DE	MAND		PANEL TOTALS	}	
QUIPM	ENT		120	) VA		100.00	)%		•	120 VA			TOTAL CONNECTED KVA:	29.74 kVA	
VAC			0	VA		0.00	%			0 VA		Т	OTAL ESTIMATED DEMAND KVA:	19.75 kVA	
OTORS	3		0	VA		0.00	%			0 VA			TOTAL CONNECTED CURRENT:	83 A	
ECEPT	ACLE		108	0 VA		100.00	)%		1	080 VA		TOTAL	ESTIMATED DEMAND CURRENT:	55 A	
ITCHE	EN - C	OMMERCIAL	2853	35 VA		65.00	)%		18	548 V	A				

	AS Noted on Plans Review
clock	Development Services Department Missour 18/15/19/19/19

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SCHEDULES AND ONE-LINE DIAGRAM

E601

rev issue

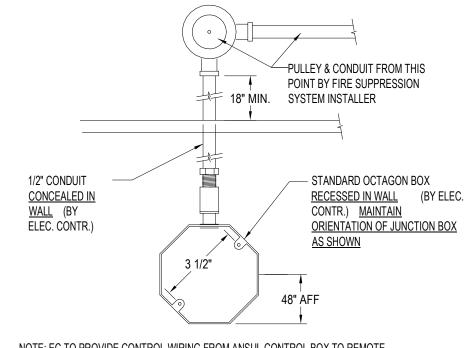
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REV 01

					L	IGHT FIX	TURE S	CHEDULE
TYPE MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LAMP TYPE	VOLTAG E	FINISH	MOUNTING	DESCRIPTION
Α	LITHONIA	2GTL 4 40L GZ10 LP836	29.8 VA	LED	120V	WHITE	LAY-IN	2x4 LED TROFFER. SUITABLE FOR MANUAL DIMMING.
В	LITHONIA	LDN4SQ-30/15-LS4-BR-LSS-MVO LT-GZ10	17.5 VA	LED	120V	BLACK	RECESSED	4" SQUARE RECESSED ANTI GLARE LED DOWNLIGHT
С	LITHONIA	LDN4SQ-30/25-LS4-BR-LSS-MVO LT-GZ10	26.1 VA	LED	120V	BLACK	RECESSED	4" SQUARE RECESSED ANTI GLARE LED DOWNLIGHT
D	DIODE LED	DI-12V-BLSC2-30-016-IES	59.3 VA	LED	120V	N/A	SURFACE	2.9 W/SQ.FT. LED TAPE LIGHT WITH FROSTED LENS. PROVIDE WITH ALUMINUM CHANNEL AND FLUSH FROSTED LENS. PROVIDE ALL REQUIRED END CAPS, FITTINGS, ETC. PROVIDE MANUFACTURER RECOMMENDED LOW-VOLTAGE TRANSFORMER AND INSTALL IN ACCESSIBLE AND CONCEALED LOCATION.
Ε	NORA LIGHTING	NYLM-5C-30X-BB-LE4	40.0 VA	LED	120V	BLACK	CABLE	5" LED CYLINDER PENDANT. SUITABLE FOR MANUAL DIMMING.
EM	LITHONIA	ELM2LB	2.4 VA	LED	120V	BLACK	SURFACE	WALL MOUNTED DUAL-HEAD EMERGENCY LIGHT WITH EMERGENCY BATTERY.
F	CYBER TECH LIGHTING	24-LIGHT 48 FOOT LED STRING LIGHT SET	24.0 VA	LED	120V	BLACK	STRING	STRING LIGHT SET
G	LUMENS	VISO, GLOBE PENDANT	14.0 VA	LED	120V	WHITE	PENDANT	19.7" LARGE DIAMETER LED PENDANT GLOBE.
Н	ACCESS LIGHTING	20294-SAT/FST	9.0 VA	LED	120V	SATIN	WALL	NAUTICUS WALL SCONCE.
J	ALCON LIGHTING	15233-4-8-30K-80-D-010	64.0 VA	LED	120V	WHITE	COVE	LED PERIMETER RECESSED COVE FIXTURE.
K	LIGHTOLOGY	ACC83697	14.0 VA	LED	120V	BLACK	WALL	NAUTICUS OVAL OUTDOOR BULKHEAD WALL/CEILING LIGHT. PROVIDE WITH DIMMABLE LED COMPATIBLE BULB WITH CCT OF 3000K.
L	NORA LIGHTING	NYLM-5SC-30X-BB-LE4	24.7 VA	LED	120V	BLACK	SURFACE	SURFACE-MOUNTED 6" ROUND LED CYLINDER.
М	CERNO	CERNO ROUND PROFILE LED ART LIGHT, 24-INCH, 3000K CCT	14.0 VA	LED	120V	GOLD	WALL	DECORATIVE WALL SCONCE.
N	NORDIC	TUBIX R COB 3000 274-505-20	11.0 VA	LED	120V	BLACK	TRACK	LED TRACK LIGHT. SUITABLE FOR MANUAL DIMMING. PROVIDE WITH JUNO T 14FT BLACK TRACK AND PROVIDE WITH (4) HEADS.
Р	LITHONIA	LDN4SQ-30/15-LS4-WR-LSS-MVO LT-GZ10	40.0 VA	LED	120V	WHITE	RECESSED	4" SQUARE RECESSED ANTI GLARE LED DOWNLIGHT
Q	KLUS	8K-KWP-CR30-1220-24	59.3 VA	LED	120V	SILVER ANODIZED	SURFACE	2.9 W/SQ.FT. LED TAPE LIGHT. PROVIDE WITH ALUMINUM CHANNEL AND FLUSH FROSTED LENS. PROVIDE WIYH 45-ALU A4023ANODA EXTRUDED CHANNEL WITH FROSTED LENS. PROVIDE MANUFACTURER RECOMMENDED LOW-VOLTAGE TRANSFORMER AND INSTALL IN ACCESSIBLE AND CONCEALED LOCATION.
R	JUNO	2LEDTRIM-G2-SQ-30K-90CRI-FL- WWH-2LEDDRIVER-G2-10LM-MV	10.9 VA	LED	120V	WHITE	RECESSED	2" SQUARE RECESSED ANTI GLARE LED DOWNLIGHT
$\sim \sim$		OLT-ZT		~~~~	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\sim\sim\sim\sim$		
S	DUAL LITE	PG-P-HTR	15.2 VA	LED	120V	PLATINUM SILVER	WALL	EXTERIOR EMERGENCY WALL SCONCE
~ <b>X</b> ~	CHTHONIA	EDGTREL	3.8 VA	LEBY	120V	MA	TWALL/CEILHYG	SÍNGLE-FACÉ LEÓ EXIT LÍGHT WÍTH ÉMÉRGÉNCY BÁTTÉRY. COORDINATE ÁRRÓWS AND QUANTITY OF FACES WITH LIGHTING PLAN.
XE	COMPASS	CELCRXRN	5.0 VA	LED	120V	N/A	WALL/CEILING	EXIT LIGHT WITH DUAL-HEAD EMERGENCY FIXTURES AND BATTERY BACKUP. COORDINATE WITH DRAWINGS WHETHER EXIT SIGN IS WALL-MOUNTED OR RECESSED CEILING MOUNTED.

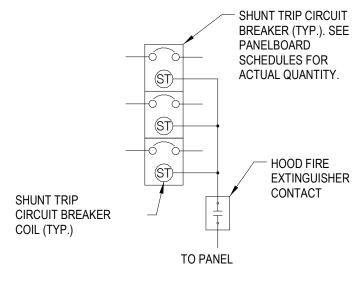
		LIGHT	NG C	ONTR	OL PA	ANELS	SCHE	DULE		
RELAY#	TYPE	LOAD NAME	ZONE	CIRCUIT		RELAY#	TYPE	LOAD NAME	ZONE	CIRCUIT
1	SM	TRACK LIGHTING	1a	A:1		25	SM	INTERIOR SIGNAGE	1a	A:21
2	SM	TRACK LIGHTING	1a	A:3		26	SM	EXTERIOR STRING LIGHTS	5	A:23
3	SM	STORAGE ROOM LIGHTING	1b	A:5		27	SM	SHOW WINDOW RECEPT.	5	A:25
4	SM	PARTY ROOM LIGHTING	1a	A:7		28	SM	SHOW WINDOW RECEPT.	5	A:27
5	SM	RESTROOM LIGHTING	1a	A:9		29	SM	SHOW WINDOW RECEPT.	5	A:29
6	SM	PUTT PUTT LIGHTING	1a	A:11		30	SM	SPARE		
7	SM	PUTT PUTT STRING LIGHTS	1a	A:13		31	SM	BLADE SIGN	5	A:33
8	SM	PODIUM GAMES	1a	A:15		32	SM	BUILDING SIGNAGE	5	A:35
9	SM	KITCHEN LIGHTING	1b	A:17		33	SM	BUILDING SIGNAGE	5	A:37
10	SM	TRACK LIGHTING	2a	A:4		34	SM	SPARE		
11	SM	TRACK LIGHTING	2b	A:6		35	SM	SPARE		
12	SM	DINING CYLINDERS	2a	A:8		36	SM	SPARE		
13	SM	TRACK LIGHTING	2b	A:10		37	SM	SPARE		
14	SM	SPARE				38	SM	SPARE		
15	SM	SPARE				39	SM	SPARE		
16	SM	DINING LIGHTING	2a	A:16		40	SM	SPARE		
17	SM	SPARE				41	SM	SPARE		
18	SM	PUTT PUTT HOLES	1a	A:20		42	SM	SPARE		
19	SM	PUTT PUTT HOLES	1a	A:22		43	SM	SPARE		
20	SM	PUTT PUTT HOLES	1a	A:24		44	SM	SPARE		
21	SM	PUTT PUTT HOLES	1a	A:26		45	SM	SPARE		
22	SM	SPARE				46	SM	SPARE		
23	SM	SPARE				47	SM	SPARE		
24	SM	SPARE			1	48	SM	SPARE		

ZONE #	LOAD TYPE
1a	GENERAL LIGHTING A
1b	GENERAL LIGHTING B
2a	TRACK LIGHTING A
2b	TRACK LIGHTING B
5	SHOW WINDOWS/SIGNAGE
NOTES: 1. VERIFY ZONING AND SCI	HEDULING WITH OWNER.



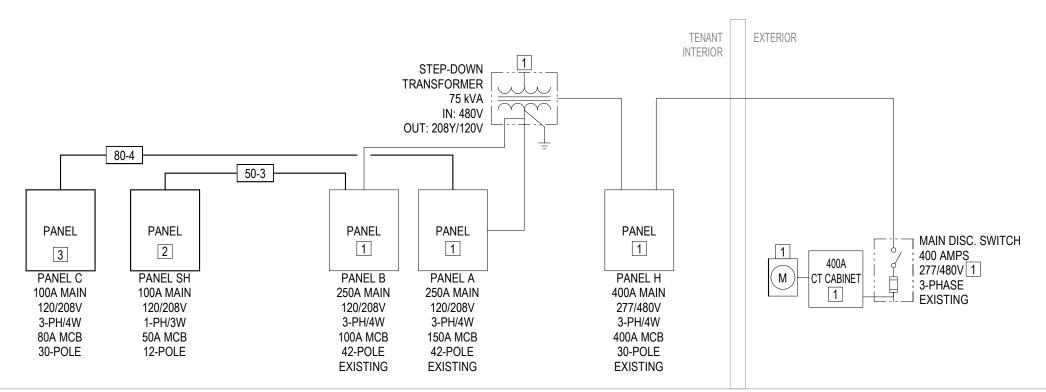
NOTE: EC TO PROVIDE CONTROL WIRING FROM ANSUL CONTROL BOX TO REMOTE PULL STATION AS REQUIRED.

2 REMOTE FIRE PULL DETAIL NOT TO SCALE



SEQUENCE OF OPERATION:
UPON ACTIVATION OF ANY HOOD FIRE SUPPRESSION SYSTEM
RELAY, A RELAY IN THAT FIRE SUPPRESSION SYSTEM SHALL CAUSE
ALL SHUNT TRIP CIRCUIT BREAKERS TO OPERATE, THUS REMOVING
POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED
UNDER THE GREASE HOOD. EXHAUST FANS SHALL NOT BE
AFFECTED BY THIS ACTION AND SHALL CONTINUE TO BE
CONTROLLED AS INDICATED IN THE APPROVED KITCHEN
HOOD/EXHAUST SUBMITTALS.

3 SHUNT TRIP BREAKER DETAIL NOT TO SCALE



30-POLE	12-POLE	42-POLE EXISTING	42-POLE EXISTING	30-POLE EXISTING	
1 ONE-LINE DIAC NOT TO SCALE					

CONDUCTOR SCHEDULE							
<u>TAG</u>	MAX OCP	<u>SETS</u>	PHASE CONDUCTORS	GROUND CONDUCTOR	CONDUIT	NOTES	
80-4	80 A	1	(4) #4 AWG	(1) #8 EG	1-1/4"		
50-3	45 & 50 A	1	(3) #8 AWG	(1) #10 EG	3/4"		

CONDUCTOR SCHEDULE NOTES (APPLIES TO ALL):

• MINIMUM SIZE CONDUIT ALLOWED. CONTRACTOR SHALL INCREASE CONDUIT SIZE AT THEIR DISCRETION.

• ALL CONDUIT SHALL BE EMT WITH THHN/THWN COPPER CONDUCTORS UNLESS NOTED OTHERWISE.

# PLAN NOTES: #

- 1. EXISTING TO REMAIN.
- 2. PROVIDE 100 AMP, 12-POLE, 120/208V, SINGLE-PHASE, 3-WIRE PANELBOARD WITH 50-AMP MAIN CIRCUIT BREAKER. PROVIDE PANELBOARD WITH SOLID NEUTRAL SEE PANELBOARD SCHEDULE ON SHEET E600 FOR ADDITIONAL INFORMATION. PANELBOARD TO BE FED VIA SHUNT TRIP BREAKER IN PANEL A SO THAT ALL BRANCH CIRCUITS ON PANEL SH ARE SHUNT TRIP PROTECTED. INSTALL NEW BREAKER PER DETAIL 3 ON THIS SHEET.
- 3. PROVIDE 100 AMP, 30-POLE, 120/208V, 3-PHASE, 4-WIRE PANELBOARD WITH 80-AMP MAIN CIRCUIT BREAKER. PROVIDE PANELBOARD WITH SOLID NEUTRAL SEE PANELBOARD SCHEDULE ON SHEET E600 FOR ADDITIONAL INFORMATION.

1 DEMOLITION PLUMBING PLAN 1/8" = 1'-0"

# **GENERAL NOTES**

- 1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
- 2. VERIFY LOCATION OF ALL EXISTING PIPING PRIOR TO DEMO WORK.
- 3. WHERE FLOOR MOUNTED FIXTURES ARE CALLED TO BE REMOVED, PATCH FLOORS TO MATCH EXISTING TO REMAIN FLOOR/FINISHES OR PREP FOR NEW FLOOR BY OTHERS. VERIFY NEW WORK SCOPE OF FLOOR AND FINISHES ON ARCHITECTURAL PLANS.

# PLAN NOTES: (#)

- 1. REMOVE EXISTING PLUMBING FIXTURE.
- REMOVE ALL DOMESTIC WATER PIPING, TENANT SUB-METER BACK TO MAIN.
- 3. REMOVE ALL SANITARY WASTE PIPING BELOW GRADE PAST THIS POINT.
- 4. REMOVE WATER HEATER AND ALL DOMESTIC HOT WATER PIPING IN ITS ENTIRETY.
- 5. REMOVE ALL EXISTING SANITARY VENT PIPING BACK TO VENT THRU ROOF. MAINTAIN EXISTING ROOF PENETRATION AND VENT THRU ROOF.

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PERMIT SET 07.29.2024

24.02. Craft Putt Lee's Summit

PLUMBING DEMOLITION PLAN

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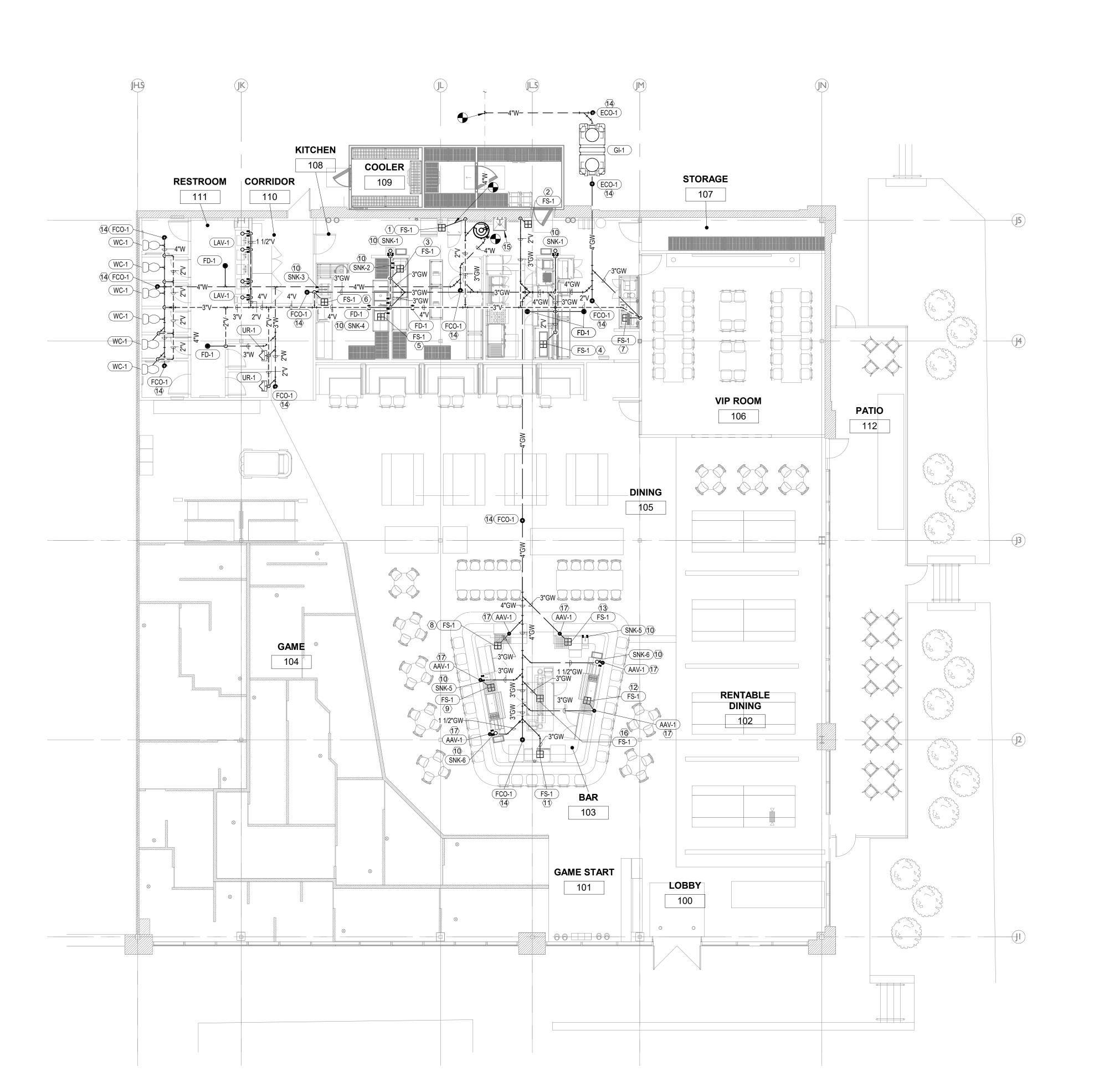
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07.29.2024

PLUMBING WASTE & VENT NEW **WORK PLAN** 

24.02. Craft Putt Lee's Summit



NEW WORK PLUMBING WASTE AND 1 VENT PLAN 1/8" = 1'-0"

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- OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO
- 2. SEE PIPE MATERIAL AND INSULATION SCHEDULE ON P600 SHEET FOR PIPING AND INSULATION REQUIREMENTS.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING PIPING SIZES AND LOCATIONS.
- 5. SEE DETAIL 2/P500 FOR TYPICAL INDIRECT WASTE PIPE TERMINATION

- 1. EXTEND 3/4" INDIRECT WASTE FROM EVAPORATOR COILS EC-1 AND EC-2 IN NEW WALK-IN TO FLOOR SINK. SEE DETAIL 11/P500 FOR ADDITIONAL
- WALK-IN TO FLOOR SINK. SEE DETAIL 11/P500 FOR ADDITIONAL

- 5. EXTEND INDIRECT WASTE PIPES FROM THREE COMPARTMENT SINK DRAIN
- TO FLOOR SINK.
- 8. EXTEND INDIRECT WASTE PIPE FROM BEVERAGE TRAIN TROUGH TO
- SINK DRAIN OUTLET TO FLOOR SINK.
- INSTALLED BY PLUMBING CONTRACTOR. ALL CONNECTIONS AND INSTALLATION OF COMPONENTS ASSOCIATED WITH SINK INSTALLED BY PLUMBING CONTRACTOR. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P600 FOR ADDITIONAL INFORMATION. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.
- 11. EXTEND INDIRECT WASTE PIPE FROM ICE MAKER TO FLOOR SINK.
- DISHWASHER AND DUMP SINK DRAIN OUTLET TO FLOOR SINK.
- 14. SEE DETAIL 1/P500 FOR TYPICAL FLOOR CLEANOUT DETAIL.
- 15. EXISTING MOP SINK TO REMAIN. CONNECT TO EXISTING SANITARY WASTE AND VENT PIPING AS SHOWN.
- BEER GLASS RINSER DRAIN OUTLETS TO FLOOR SINK.

- 4. CONTRACTOR SHALL SAW CUT EXISTING SLAB FOR ROUTING OF ALL NEW BELOW SLAB PIPING. EXISTING TO REMAIN PIPING SHALL BE SCOPED TO DETERMINE ROUTING AND SIZE PRIOR TO SAW CUTTING.
- DETAIL AT ALL FLOOR SINKS.

- INFORMATION.
- INFORMATION.
- TO FLOOR SINK.
- OUTLETS TO FLOOR SINK.
- DISPENSER AND WATER STATION TO FLOOR SINK.

- 16. EXTEND INDIRECT WASTE PIPES FROM BEER TAP DRAINBOARDS AND

**GENERAL NOTES** 

1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE



Overland Park, KS 66210



- 2. EXTEND 3/4" INDIRECT WASTE FROM EVAPORATOR COILS EC-3 IN NEW
- 3. EXTEND INDIRECT WASTE FROM WORKTABLE PREP SINK DRAIN OUTLET
- 4. EXTEND INDIRECT WASTE PIPES FROM HOT FOOD WELLS TO FLOOR SINK.
- 6. EXTEND INDIRECT WASTE PIPES FROM DISHMACHINE AND PRE-RINSE SINK
- 7. EXTEND INDIRECT WASTE PIPES FROM COFFEE BREWER, SODA/ICE
- 9. EXTEND INDIRECT WASTE PIPES FROM ICE WELL, DRAIN BOARD AND DUMP
- 10. SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. SINK TO BE
- 12. EXTEND INDIRECT WASTE PIPES FROM ICE WELL AND DRAIN BOARD TO FLOOR SINK.
- 13. EXTEND INDIRECT WASTE PIPES FROM DRAIN BOARD, UNDERCOUNTER

- 17. INSTALL AIR ADMITTANCE VALVE BEHIND EQUIPMENT, IN RECESSED WALL BOX IN ACCESSIBLE LOCATION.

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MO CERTIFICATE OF AUTHORITY MO #1999137647

# NEW WORK PLUMBING DOMESTIC WATER PLAN 1/8" = 1'-0"

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# **GENERAL NOTES**

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- 2. SEE PIPE MATERIAL AND INSULATION SCHEDULE ON P600 SHEET FOR PIPING AND INSULATION REQUIREMENTS.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING PIPING SIZES AND LOCATIONS.
- 4. CONTRACTOR SHALL SAW CUT EXISTING SLAB FOR ROUTING OF ALL NEW BELOW SLAB PIPING. EXISTING TO REMAIN PIPING SHALL BE SCOPED TO DETERMINE ROUTING AND SIZE PRIOR TO SAW CUTTING.

# PLAN NOTES: (#)

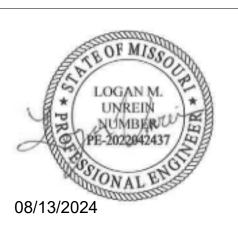
- 1. PROVIDE ELECTRIC SOLENOID VALVE SUITABLE FOR USE IN NATURAL GAS PIPING CONTROLLED BY HOOD FIRE SUPPRESSION SYSTEM. ELECTRICAL WIRING BY ELECTRICIAN. SEE SHEET EP100 FOR ADDITIONAL INFORMATION ON CIRCUITING. CONNECT TO FIRE SUPPRESSON SYSTEM PER MANUFACTURER'S SPECIFICATIONS.
- 2. PROVIDE AND INSTALL DRIP LEG AND SHUT-OFF VALVE FOR EACH GAS KITCHEN APPLIANCE. INSTALL FLEXIBLE HOSE GAS CONNECTION SIZED PER MANUFACTURER'S SPECIFICATIONS ON KITCHEN EQUIPMENT. FLEXIBLE HOSE PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. CONNECT PER MANUFACTURER'S REQUIREMENTS.
- 3. SINK AND FAUCET PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. SINK AND FAUCET TO BE INSTALLED BY PLUMBING CONTRACTOR. ALL CONNECTIONS AND INSTALLATION OF COMPONENTS ASSOCIATED WITH SINK INSTALLED BY PLUMBING CONTRACTOR. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P600 FOR ADDITIONAL INFORMATION. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.
- 4. WATER FILTER TO BE PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. WATER FILTER TO BE INSTALLED BY PLUMBING CONTRACTOR. FINAL CONNECTIONS AND COMPONENTS ASSOCIATED WITH WATER FILTER INSTALLED BY PLUMBING CONTRACTOR. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.
- 5. 1/2" HW CONNECTION WITH QUARTER-TURN SHUT-OFF VALVE AND ESCUTCHEON FOR DISHWASHER MACHINE. COORDINATE CONNECTION HEIGHT AFF WITH KITCHEN EQUIPMENT PLANS.
- 6. PROVIDE AND INSTALL SOLENOID VALVE SUITABLE FOR NATURAL GAS APPLICATIONS IN EXPOSED PIPE DROP DOWN TO SERVE THE EQUIPMENT BELOW THE HOOD.
- 7. PROVIDE 1/2" CW CONNECTION FOR SODA MACHINE WITH LEAD FREE BACKFLOW PREVENTER (WATTS MODEL SD-3 OR APPROVED EQUAL) FOR WATER LINES INLINE OF PIPE TO WATER CONNECTION, QUARTER-TURN SHUT-OFF VALVE AND ESCUTCHEON. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR CONNECTION HEIGHT AFF.
- 8. INSTALL GAS WATER HEATER PER DETAIL 6/P500.
- 9. SEE DETAIL 4/P500 FOR TYPICAL EXPANSION TANK INSTALLATION DETAIL.
- 10. SEE DETAIL 7/P500 FOR HOT WATER RECIRCULATION DETAIL.
- 11. ROUTE 3/4" CW, 3/4" HW AND 1/2" HWR PIPING UP FROM BELOW GRADE INTO HALF HEIGHT BAR WALL.
- 12. PROVIDE 1/2" FCW CONNECTION FOR COFFEE BREWER WITH LEAD FREE BACKFLOW PREVENTER (WATTS WATTS LF7R OR APPROVED EQUAL) FOR WATER LINES INLINE OF PIPE TO WATER CONNECTION, QUARTER-TURN SHUT-OFF VALVE AND ESCUTCHEON. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR CONNECTION HEIGHT AFF.
- 13. PROVIDE 1/2" FCW CONNECTION FOR ICE MACHINE WITH LEAD FREE BACKFLOW PREVENTER (WATTS LF7 OR APPROVED EQUAL) FOR WATER LINES INLINE OF PIPE TO WATER CONNECTION, QUARTER-TURN SHUT-OFF VALVE AND ESCUTCHEON. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR CONNECTION HEIGHT AFF.
- 14. CONNECT NATURAL GAS TO WATER HEATER GAS INLET. PROVIDE SHUT-OFF VALVE, UNION, TEE AND 6-INCH DIRT LEG.
- 15. 1/2" CW CONNECTION TO WATER STATION FAUCET. COORDINATE CONNECTION HEIGHT AFF WITH KITCHEN EQUIPMENT PLANS.
- 16. 1/2" CW CONNECTION WITH ESCUTCHEON FOR BAG-N-BOX WITH LEAD FREE REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER (WATTS MODEL 009 OR APPROVED EQUAL). COORDINATE CONNECTION HEIGHT AFF WITH KITCHEN EQUIPMENT PLANS.
- 17. PROVIDE 1/2" CW CONNECTION TO TANK-TYPE WATER CLOSET.
- 18. PROVIDE 3/4" CW CONNECTION TO URINAL FLUSH VALVE.
- 19. PROVIDE 1/2" CW AND HW CONNECTIONS TO LAVATORY FAUCETS.
- 20. PROVIDE 1-1/2" TENANT WATER SUB-METER AND INSTALL ABOVE CEILING IN READILY ACCESSIBLE LOCATION. COORDINATE METER SPECIFICATION AND COMPATIBILITY WITH LANDLORD. SEE DETAIL 5/P500.
- 21. PROVIDE 1/2" PIPE STUB-UP FROM BELOW SLABWITH QUARTER-TURN SHUT-OFF VALVE FOR BEER CLASS RISNER. COORDINATE WITH ARCHITECTURAL AND FOOD SERVICE PLANS FOR LOCATION OF STUB-UP WITHIN BAR.

# Development Services Department Services Depar

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PLUMBING DOMESTIC WATER AND GAS NEW WORK PLAN

P101

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-PIPE HANGER TO STRUCTURE ABOVE (TYP)

FROM COLD WATER SUPPLY TO WATER HEATER

PROVIDE DIELECTRIC UNION IF REQUIRED FOR

DIAPHRAGM, FDA AND NSF APPROVED FOR

- "SCHRADER" AIR CHARGING VALVE. FILL TANK

WITH AIR PRESSURE TO MATCH WATER

DO NOT INSTALL SHUT OFF VALVE BETWEEN

CONNECTION OF DISSIMILAR METALS

POLYPROYPLENE LINING AND BUTYL

DOMESTIC WATER SERVICE

PRESSURE.

FLOOR OR PLATFORM

FITTING. VERIFY PROPER OPERATION WHEN INSTALLED.

4 THERMAL EXPANSION TANK DETAIL

NOT TO SCALE

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS, EQUIPMENT FURNISHED.

REFER TO SPECIFICATIONS, SCHEDULES AND NOTES FOR ADDITIONAL INFORMATION. REFERENCE SCHEDULES

TO CONFIRM SUSPENDED OR BASE MOUNTING INSTALLATION. BRANCH PIPING SHALL BE SAME SIZE AS TANK

WATER HEATER AND EXPANSION TANK.

-CHECK VALVE.

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**PLUMBING DETAILS** 

INDIRECT WASTE LINE -- FLOOR SINK TO BE FLUSH WITH FINISHED FLOOR **UNLESS OTHERWISE** REQUIRED BY FINISHED LOCAL CODE FLOOR — - WATERPROOFING AROUND FLOOR SINK - HUB OUTLET - BODY - SMOOTH INTERIOR WALL SURFACE - HUB OUTLET

INTERIOR CLEANOUT SIMILAR, EXCEPT SET IN FLOOR SLAB WITH ADJUSTABLE TOP TO MATCH FINISHED FLOOR COVERING. PROVIDE MEMBRANE CLAMP WHEN INSTALLED ABOVE GRADE LEVEL. STRAINER SANITARY WASTE FLOOR CLEAN-OUT

— DUAL EXTERIOR

CLEANOUT PLUG

AND COVER

INDIRECT WASTE TERMINATION NOT TO SCALE

3 NATURAL GAS CONNECTION DIAGRAM

3" LONG SEDIMENT TRAP -

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. PROVIDE SHUT-OFF

VALVE AND NATURAL GAS REGULATOR AT EACH PIECE OF GAS

CONSUMING EQUIPMENT. CONTRACTOR SHALL SELECT REGULATOR

BASED ON BUILDING DESIGN NATURAL GAS DELIVERY PRESSURE AND

OPERATING PRESSURE RANGE OF ACTUAL EQUIPMENT FURNISHED.

NOT TO SCALE

TYPICAL GAS-FIRED

**EQUIPMENT** 

BOTTOM DOME

- COLD WATER OR SOFTENED

1) NOT TO SCALE

FINISHED GRADE

OR FLOOR —

- CONCRETE PAD WITH 川

WIRE MESH

REINFORCEMENT.

SLOPE PAD TO DRAIN

WATER AWAY TO

CONCRETE EDGE.

- SAME SIZE AS

HORIZONTAL

PIPING, UP TO 4".

COMBINATION "Y"

OR 1/8 BEND IF END OF RUN -

1. CONTRACTOR TO INSTALL VENDOR FURNISHED IDLER TUBES AND WATER METER COUPLINGS

2. CONTRACTOR TO INSTALL VENDOR FURNISHED WATER METER AFTER PIPES HAVE BEEN

5. METERS MUSH REMAIN ACCESSIBLE FOR MANUAL READING, REPAIR AND REPLACEMENT.

DURING PLUBMING ROUGH-IN.

3. MOUNT METER IN DIRECTION SHOWN.

4. DO NOT CARRY OR SUPPORT METER BY CABLE.

DOMESTIC WATER SUBMETERING

FLUSHED.

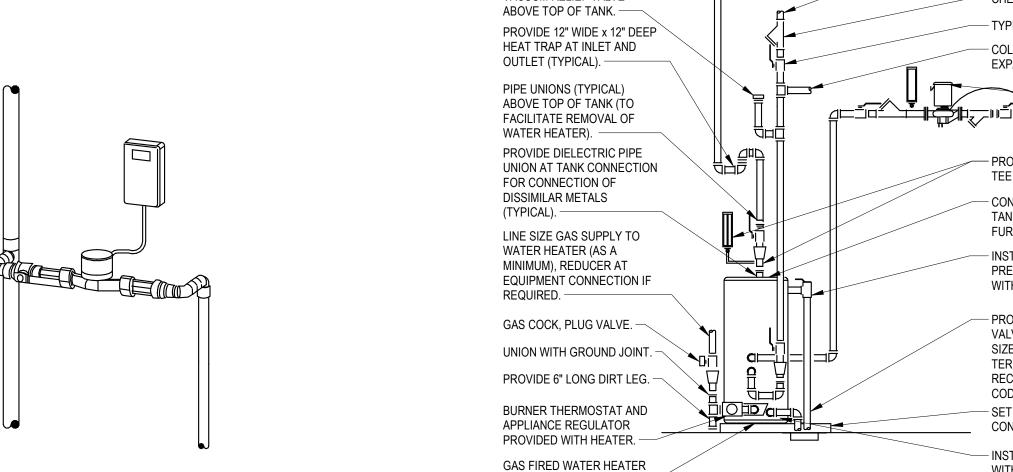
NOT TO SCALE

SINGLE EXTERIOR

CLEANOUT PLUG

DETAIL

AND COVER -



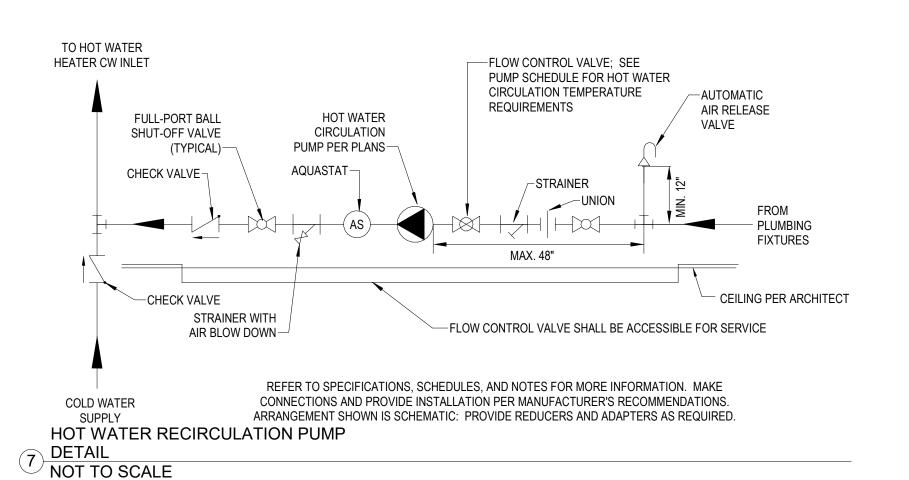
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS, EQUIPMENT FURNISHED, REFER TO SPECIFICATIONS, SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION. PROVIDE SEISMIC STRAP(S) OR BRACING.

GAS WATER HEATER1

HOT WATER TO FIXTURES. -COLD WATER SUPPLY TO WATER HEATER(S). PROVIDE AUTOMATIC VACUUM RELIEF VALVE - CHECK VALVE. TYPICAL SHUT-OFF VALVE. COLD WATER BRANCH TO EXPANSION TANK. - RECIRCULATION PUMP AND AQUASTAT SET 20 DEGREES FAHRENHEIT LOWER THAN WATER HEATER TEMPERATURE. PROVIDE THERMOMETERIN TEE FITTING. CONNECT TO TOP OR SIDE OF TANK AS REQUIRED FOR MODEL FURNISHED (TYPICAL). - INSTALL ASME TEMPERATURE AND PRESSURE RELIEF VALVE FURNISHED WITH WATER HEATER. PROVIDE HARD COPPER RELIEF VALVE DISCHARGE PIPE FULL SIZE OF VALVE OUTLET. TERMINATE OVER APPROVED RECEPTOR WITH AIR GAP PER CODE. - SET WATER HEATER ON CONCRETE EQUIPMENT PAD. - INSTALL DRAIN VALVE FURNISHED WITH WATER HEATER. PER SCHEDULE. TYPICAL

REFERENCE ELECTRICAL PLANS FOR POWER AND MEANS OF DISCONNECT. WATER HEATER IS A SEALED COMBUSTION AIR UNIT. COORDINATE OUTSIDE AIR INTAKE/FLUE EXHAUST PIPING WITH TERMINATION KITS WITH MECHANICAL CONTRACTOR.

NOT TO SCALE



- PIPE REDUCER AT CONNECTION

TO EQUIPMENT AS REQUIRED

- GAS PRESSURE REGULATOR

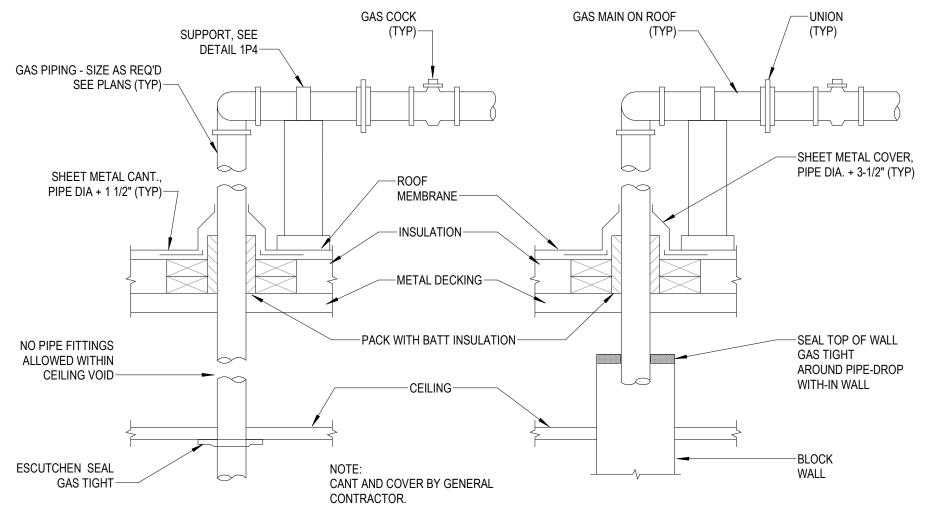
- GROUND JOINT PIPE UNION

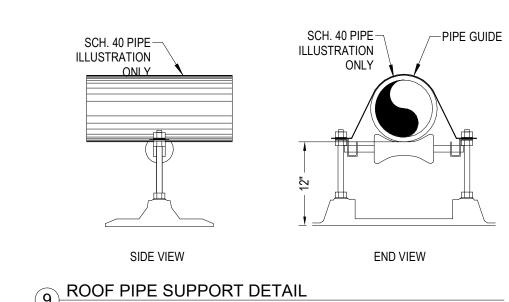
GAS SHUT-OFF VALVE

— BRANCH OFF TOP OF GAS

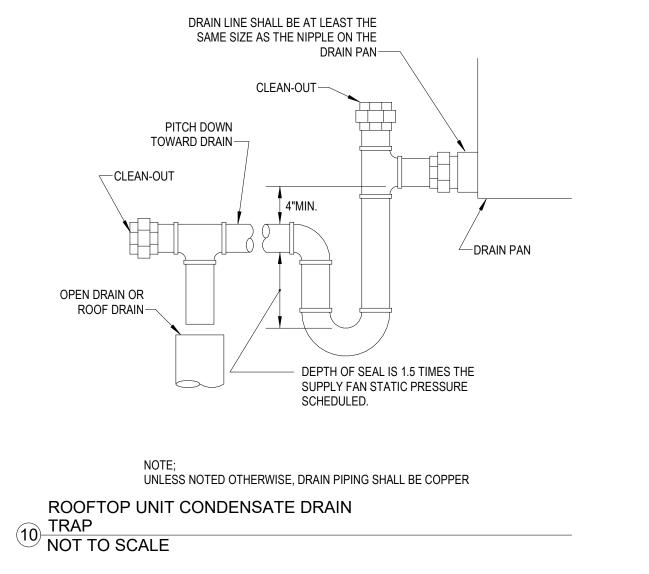
SUPPLY MAIN

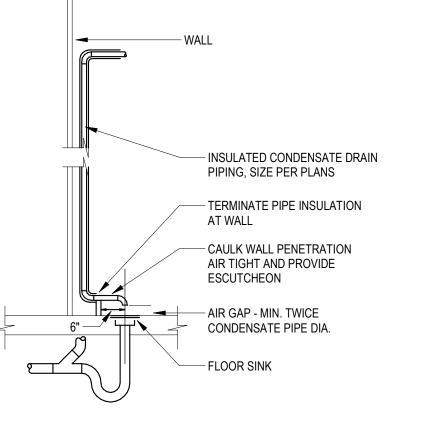
BRANCH PIPE - SIZE PER PLAN





TOP VIEW





CONDENSATE DRAIN / INDIRECT DRAIN 11 DETAIL NOT TO SCALE

8 GAS PIPE ROOF PENETRATION DETAIL NOT TO SCALE

NOT TO SCALE

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**PLUMBING SCHEDULES** 

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# PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. IF THERE ARE ANY CONFLICTS BETWEEN MODEL NUMBER AND DESCRIPTION THE DESCRIPTION SHALL PREVAIL SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR

	PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE P	LUMBING				
MARK	DESCRIPTION	COLD	НОТ	SIZE CONN MIXED	ECTION	
	TANK EVRANCION, DEFERENCE DI UMBINO COLIERUI EC ON CLIEFE DOCO	WATER	WATER	WATER	WASTE	VENT
ET-1	TANK, EXPANSION: REFERENCE PLUMBING SCHEDULES ON SHEET P600.					
WHA-XX	WATER HAMMER ARRESTOR: MANUFACTURED BY SIOUX CHIEF OR APPROVED EQUAL SHALL BE: LEAD FREE, SIZED BY PDI STANDARDS, SIZES "A" THROUGH "F". UNIT SHALL BE ASSE 1010 CERTIFIED TO PROVIDE CONTINUOUS PROTECTION, WITHOUT MAINTENANCE ALLOWING INSTALLATION WITHOUT ACCESS PANEL. UNIT SHALL HAVE NO-LEAD COMPONENTS AND BE CALIFORNIA AB 1953 COMPLIANT. THE x OF WHA-x INDICATES THE SIZE OF THE WATER HAMMER ARRESTER REQUIRED AT A SPECIFIC BRANCH PIPING. AIR CHAMBERS ARE NOT AN APPROVED EQUAL.	PER PLAN	PER PLAN			
TSP-1	TRAP SEAL PROTECTOR: MANUFACTURED BY SIOUX CHIEF OR APPROVED EQUAL SHALL BE: TRAP PRIMER, CORROSION RESISTANT BRASS BODY, "O" RING SEALS, 1/2" INLET AND OUTLET, AND INTEGRAL VACUUM BREAKER. INSTALL THE VALVE AT A MINIMUM OF 12" ABOVE FINISHED FLOOR FROM TOP OF COLD WATER SUPPLY LINE. PROVIDE WITH DISTRIBUTION FOR TWO, THREE, OR FOUR DRAIN CONNECTIONS AS REQUIRED OR SHOWN ON PLANS. CONNECTION SHALL BE MADE FROM TOP OF A COLD WATER SUPPLY PIPE 1-1/2 INCH IN DIAMETER OR LESS NEAR PLUMBING FIXTURES TO INSURE FULL 10 PSI PRESSURE DROP. UNIT SHALL BE UPC/IAPMO LISTED AND ASSE CERTIFIED TO ASSE 1018 STANDARD.	1/2"				
FD-1	FLOOR DRAIN					
	MANUFACTURED BY ZURN OR APPROVED EQUAL MANUFACTURER SHALL BE: CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, LIGHT DUTY ADJUSTABLE ROUND NICKEL BRONZE STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. STRAINER SIZE SHALL BE 6" OR AS SHOWN ON PLANS. PROVIDE TSP-01, TRAP SEAL PROTECTOR WITH DRAIN.				3"	2"
	LOAD RATING CLASSIFICATIONS: GRATES AND TOP RIMS SHALL BE TO MEET SAFE LOAD OF: LIGHT DUTY, UNDER 2,000 POUNDS.					
FS-1	DRAIN, FLOOR SINK: MANUFACTURED BY ZURN OR APPROVED EQUAL MANUFACTURER SHALL BE: CAST IRON BODY WITH WHITE A.R.E. INTERIOR, 12"x12"x12" SQUARE, WITH SEEPAGE FLANGE AND MEMBRANE FLASHING CLAMP, SQUARE, HEAVY-DUTY GRATE WITH 1/2" SLOTTED OPENINGS, ALUMINUM ANTI-SPLASH INTERIOR BOTTON DOME STRAINER AND BOTTOM OUTLET. PROVIDE GRATE WITH 3" CENTER OPENING.					
	PROVIDE TRAP SEAL PROTECTION MANUFACTURED BY SURE SEALOR APPROVED EQUAL. INLINE FLOOR DRAIN TRAP SEALER, SHALL BE ASSE 1072 APPROVED, SIZED PER DRIAN OUTLET WITH PERFORMANCE THAT WILL NOT DETERORIATE IN AREAS OF HEAVY GREASE OR WAXED FLOORS. UNIT SHALL HAVE A TEN YEAR WARRANTY. (UNIT SHALL BE ICC-ES LISTED: PMG-1070 AND IAPMO LISTED: C-4165)				3"	2"
	LOAD RATING CLASSIFICATIONS: GRATES AND TOP RIMS SHALL BE TO MEET SAFE LOAD OF: HEAVY DUTY, GREATER THAN 5,000 BUT UNDER 7,499 POUNDS					
AAV-1	AIR ADMITTANCE VALVE:  MANUFACTURER BY PROFLO OR APPROVED EQUAL SHALL BE: AAV SHALL BE OPEN AT -0.01 PSI AND BE SEALED AT 0PSO AND ABOVE. SHALL CONTAIN SCREENING ON AIR INLETS TO GUARD THE SEAL, PROTECTIVE RUBBER GRIPS FOR INSTALLATION AND TO KEEP VALVE FREE FROM DEBRIS. PROVIDE WITH 1-1/2" OR 2" PVC ADAPTER PER THE VENT SIZED INDICATED ON THE DRAWINGS. INSTALL VALVE SO IT IS LOCATED A MINUMOM OF 4" ABOVE THE WEIR OF THE FIXTURE TRAP FOR SINGLE FIXTURE AND 6" ABOVE THE FLOOR LEVEL OF HIGHEST FIXTURE FOR STACK VENTING. INSTALL VALVE IN ACCESSIBLE LOCATION.					(SEE DWGS)
FCO-1	CLEANOUT, FLOOR:  MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: HEAVY DUTY ADJUSTABLE FLOOR CLEANOUT WITH CAST IRON BODY, GAS AND WATER TIGHT ABS TAPERED THREADED PLUG AND ADJUSTABLE ROUND, SECURED, SCORIATED HEAVY DUTY CAST IRON TOP. PROVIDE WITH PUSH ON CONNECTION AND FLASHING FLANGE WITH CLAMPING COLLAR OR ANCHOR FLANGE FOR GROUND LEVEL INSTALLATIONS; PROVIDE STAINLESS STEEL MARKER FOR INSTALLATION IN CARPETED FLOOR AREA(S); PROVIDE RECESSED TOP FOR INSTALLATION IN TILED FLOOR AREA(S), TERRAZZO AND SIMILAR FLOOR AREA(S). PROVIDE POLISHED NICKEL BRONZE LIGHT DUTY TOP ONLY IN PUBLIC AREAS, PROVIDE HEAVY DUTY TOP FOR INSTALLATION IN CONCRETE FLOORS.				4"	
ECO-1	CLEANOUT, DOUBLE EXTERIOR:					
	MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: (2) DUCO CAST IRON DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH SOLID GASKETED SEAL AND PUSH-ON JOINT. TO BE INSTALLED IN CONJUNCTION WITH TWO WAY SANITARY PIPING FITTING COMMONLY CALLED "MEMPHIS CLEANOUT"				4"	

	GAS FIRED DOMESTIC WATER HEATER SCHEDULE													
N	MANUFACTURER	MODEL NUMBER	AREA	ENERGY		TAN	NK SIZE		INPUT	EFFICIENCY	VOLTAGE	AMPERAGE	RECOVERY	NOTES
TAG			SERVED	SOURCE	GALLONS	DIAMETER	HEIGHT	WEIGHT	MBH		PHASE		@ 100 DEGREE	
											FREQUENCY		RISE	
GWH-1	AO SMITH	BTH-199 MXI	KITCHEN/BAR	NATURAL GAS	100	27-3/4"	76"	523 LBS	199 MBH	98%	120V / 1 / 60 HZ	NOT LISTED	470 GPH	1,2,3,4

### 100 DEGREE TEMPERATURE RISE WITH 140 DEGREE OPERATING TEMPERATURE.

DUTY, GREATER THAN 5,000 BUT UNDER 7,499 POUNDS..

SET TEMPERATURE CONTROL TO FACTORY MINIMUM OF 110 DEGREES.

LOAD RATING CLASSIFICATIONS: GRATES AND TOP RIMS SHALL BE TO MEET SAFE LOAD OF: HEAVY

- COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE 4" PVC OUTSIDE INTAKE PIPING AND 4" PVC FLUE WITH FACTORY APPROVED TERMINATION KITS.
- FURNISH WITH IMMERSION THERMOSTATS.

CLEANOUT".

	MANUFACTURER	MODEL NUMBER	TANK	VOLUM	IE (GALLONS)	TA	NK	WEIGHT	SYSTEM	INITIAL FILL	SYSTEM	NOTES
TAG			RATING	TANK	ACCEPTANCE	DIAMETER	HEIGHT	AT CAPACITY *	CONNECTION	PRESSURE		
ET-1	AMTROL	ST-5	NON-ASME	2.0	0.9	8.0	13.0	13 LBS.	3/4"	NOTE 1	GWH-1	1, 2, 3

- THE CHARGE TO THE STATIC SUPPLY PRESSURE AT THE TANKS LOCATION.
- 2. SUSPEND TANK FROM PIPING. PROPERLY SUPPORT PIPING IN EACH SIDE OF THE TANK.
- 3. TANK IS A NOT ASME RATED.
- \* WEIGHT INCLUDES ACCEPTANCE WATER AT CAPACITY, FOR A TANK RATED AT 150 PSI WORKING PRESSURE.

	HOT WATER RECIRCULATION PUMP SCHEDULE										
TAG	LOCATION	MANUFACTURER	MODEL	DESIGN C	ONDITIONS		N	MOTOR		SYSTEM	NOTES
			NUMBER	FLOW (GPM)	HEAD (FEET)	VOLTS/ PHASE	FREQ. (HERTZ)	AMPS	HORSE POWER		
HWP-1	KITCHEN 108	TACO	0012-SF1	6.00	15.0	120 / 1	60	1.33	1/8 HP	GWH-1	1,2,3
2. FURNI	ISHED WITH AQUAST	FOR USE IN POTABLE IN FOR AND 24 HOUR TIMES  MOUNTS *NO BY MASO	₹.		WITH ELEVIDLE	CONNECTIO		AND OUT F			

CLEANOUT - 1-1/2" INLET TO 1-1/2" OUTLET 17 GAUGE WASTE CHROME PLATED BRASS WASTE ARM AND ESCUTCHEON. (PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR). PROVIDE WITH TMV-1. WORK TABLE WITH INTEGRAL SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: PROVIDE 1) TWIST HANDLE LEVER WASTE FOR 3-1/2" INDUSTRY STANDARD SINK 1/2" OPENING, 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, AND 3) BASKET STRAINER WITH INCLUDED ADAPTER FOR EITHER 2" OR 1-1/2" DRAIN OUTLET. PROVIDE KROWNE ROYAL SERIES TWIST WASTE DRAIN WITH 1-1/4" OVERFLOW OUTLET. SOILED DISH TABLE WITH INTEGRAL SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: PROVIDE 1) TWIST HANDLE LEVER WASTE FOR 3-1/2" INDUSTRY STANDARD SINK 1/2" OPENING, 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, AND 3) BASKET STRAINER WITH INCLUDED ADAPTER FOR EITHER 2" OR 1-1/2" DRAIN OUTLET. PROVIDE KROWNE ROYAL SERIES TWIST WASTE DRAIN WITH 1-1/4" OVERFLOW OUTLET. THREE-COMPARTMENT SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: PROVIDE 1) TWIST HANDLE LEVER WASTE FOR 3-1/2" INDUSTRY STANDARD SINK

OPENING, 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH

EITHER 2" OR 1-1/2" DRAIN OUTLET. PROVIDE KROWNE ROYAL SERIES TWIST WASTE

FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: MANUFACTURED BY McQUIRE OR APPROVED EQUAL SHALL BE: 1) BASKET

STRAINER (INCLUDED WITH SINK), 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 3) CAST BODY P-TRAP WITH CLEANOUT - 1-1/2" INLET TO 1-1/2" OUTLET 17 GAUGE WASTE CHROME PLATED BRASS

FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: PROVIDE 1) TWIST HANDLE LEVER WASTE FOR 3-1/2" INDUSTRY STANDARD SINK

OPENING, 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH

EITHER 2" OR 1-1/2" DRAIN OUTLET. PROVIDE KROWNE ROYAL SERIES TWIST WASTE

SCHIER GB-500 500-GALLON BELOW GRADE GREASE INTERCEPTOR (OR APPROVED FOUAL), CONSTRUCTED OF HIGH DENSITY POLYETHYLENE WITH MINIMUM 7/16" WALL THICKNESS. INTERCEPTOR TO BE RATED FOR BELOW GRADE INSSTALLATION WITH |FIFLD ADJUSTABLE RISERS.INTERCEPTOR SHALL HAVE FLOW RATE OF 100 GPM WITH A

GREASE CAPACITY OF 3,048 POUNDS AT 100 GPM. COVERS SHALL PROVIDE

BODY, COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH POLYMER

WATER/GAS-TIGHT SEAL AND HAVE MINUMUM 16,000 POUND WEIGHT CAPACITY.

MANUFACTURED BY LEONARD OR APPROVED EQUAL SHALL BE: LEAD FREE BRASS

THERMOPLASTIC SHUTTLE, STAINLESS STEEL SPRINGS, BUNA-N O-RINGS, INTEGRAL CHECKS, COLD WATER BY-PASS, MOUNTING BRACKET, VANDAL RESISTANT LOCKING TEMPERATURE ADJUSTMENT CAP, ASSE 1070 CERTIFIED, CAPABLE OF 1.7 GPM WITH A 5 PSI PRESSURE LOSS, CAPABLE OF 2.3 GPM WITH A 10 PSI PRESSURE LOSS AND A

MINIMUM FLOW RATE OF 0.25 GPM. 3/8" INLET AND OUTLET CAN BE CONFIGURED TO SERVE EITHER A TWO HANDLE LAVATORY/SINK OR SINGLE INLET SENSOR FAUCET. TEMPERATURE ADJUSTMENT RANGE FROM 90 TO 140 DEGREES, UNIT IS NOT FACTORY PRESET CONTRACTOR SHALL SET OUTLET TEMPERATURE TO 105 DEGREES FAHRENHEIT. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLAN(S).

UNDERMOUNT COUNTERTOP LAVATORY: MANUFACTURER BY BADELOFT: SHALL BE 19.7"x 16.1" UNDERMOUNT, 5.3" DEEP STONE RESIN COUNTERTOP LAVATORY. UNDERMOUNTED TO COUNTERTOP WITH MOUNTING CLIPS OR U-CHANNEL WITH 2"

DRAIN OPENING. UNDERNEATH SIDE FULLY COATED FOR SOUND DAMPENING AND

DECK-MOUNTED MIXING FAUCET, BLACK FINISH, 0.5 GPM VANDAL-RESISTANT LAMINAR FLOW OUTLET AND WATER SUPPLY CONNECTION WITH 24" LONG FLEXIBLE STAINLESS

STEEL HIGH-PRESSURE BRAIDED HOSE FOR COMPRESSION FITTINGS AND STRAINER. PROVIDED WITH FILTERED SOLENOID VALVE WITH SERVICABLE STRAINER FILTER, AND

TRIM: LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, NRUSHED NICKEL CAST ROUND BOTTLE DECORATIVE P-TRAP (HANEBATH OR APPROVED EQUAL) - (1-1/4" INLET TO 1-1/2" OUTLET) 17 GAUGE WASTE CHROME PLATED BRASS WASTE ARM AND ESCUTCHEON. INSULATE EXPOSED WASTE

DIRECT-FED SIPHON JET ACTION. 1-1/2" TOP SPUD CONNECTION. WATER CLOSET WITH

FLUSH VALVE SHALL HAVE A MAP (MAXIMUM PERFORMANCE) RATING OF 800 GRAMS

OR GREATER. REFERENCE ARCHITECTURAL PLAN FOR MOUNTING HEIGHTS TO MEET

VALVE: MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: 1-1/2" TOP SPUD

CONNECTION, 1.28 GPF, FLUSH VALVE, AUTOMATIC INFRARED SENSOR ACTIVATED,

FILTERED PISTON OPERATOR AND MANUAL OVERRIDE BUTTON. SENSOR TO BE

TRIM: MANUFACTURED BY CHURCH OR APPROVED EQUAL: WHITE OPEN-FRONT

ELECTRICAL REQUIREMENTS: 7.6VDC PLUG-IN ACA POWER SUPPLY FOR UP TO 4

FOR MOUNTING HEIGHTS TO MEET STANDARD AND ADA REQUIREMENTS.

URINAL, ADA COMPLIANT: MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: WHITE VITREOUS CHINA HIGH EFFICIENCY URINAL SYSTEM WITH WITH FLUSHING RIM, FLUSHING AT 0.125 GALLON PER FLUSH (GPF), 3/4" TOP SPUD FLUSH VALVE, 2"

THREADED OUTLET AND WASHOUT FLUSH ACTION. REFERENCE ARCHITECTURAL PLAN

VALVE: MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: 0.125 GPF, 3/4" TOP INLET SPUD, FLUSH VALVE, AUTOMATIC INFRARED SENSOR ACTIVATED, MANUAL OVERRIDE BUTTON, FILTERED PISTON OPERATOR. MANUAL OVERRIDE BUTTON MANUFACTURED ON THE CENTER OF THE LEFT SIDE OF THE FLUSH VALVE. SENSOR

TRIM: SUITABLE CARRIER WITH STANCHIONS (TUBULAR LEGS OR BRACES) TO FLOOR.. ELECTRICAL REQUIREMENTS: 7.6VDC PLUG-IN ACA POWER SUPPLY FOR UP TO 4

FAUCET: MANUFACTURED BY VIGO SHALL BE: NOMA SINGLE-HOLE BATHROOM

FAUCET VG01009 "LEAD FREE" MANUALLY OPERATED, ADA COMPLIANT,

MANUFACTURED BY ZURN OR APPROVED EQUAL: WHITE VITREOUS CHINA FIXTURE.WALL HUNG, ELONGATED BOWL ONLY, 1.28 GALLONS PER FLUSH WITH

DECK-MOUNTING HARDWARE KIT. PROVIDE WITH TMV-1.

AND WATER LINES PER 2009 ANSI A117.1 - 606.6. WATER CLOSET, WALL-MOUNTED, FLUSH VALVE:

STANDARD AND ADA REQUIREMENTS..

PROVIDE SUITABLE FIXTURE CARRIER.

CONTOURED, SOLID PLASTIC,

URINAL, ADA COMPLIANT:

TO BE HARD-WIRED.

HARD-WIRED.

VALVES.

RISERS AND ESCUTCHEONS, AND 3) BASKET STRAINER WITH INCLUDED ADAPTER FOR

DRAIN WITH 1-1/4" OVERFLOW OUTLET FOR EACH COMPARTMENT.

PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR

WASTE ARM AND ESCUTCHEON. (PROVIDED AND INSTALLED BY PLUMBING...

PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR.

RISERS AND ESCUTCHEONS, AND 3) BASKET STRAINER WITH INCLUDED ADAPTER FOR

RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS. DESCRIPTION

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FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR.

TRIM: MANUFACTURED BY McQUIRE OR APPROVED EQUAL SHALL BE: 1) BASKET

STOP VALVES WITH RISERS AND ESCUTCHEONS, 3) CAST BODY P-TRAP WITH

STRAINER (INCLUDED WITH SINK), 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE

HAND WASH SINK:

HAND WASH BAR SINK:

DRAIN WITH 1-1/4" OVERFLOW OUTLET.

GREASE INTERCEPTOR

TMV-1 THEMOSTATIC MIXING VALVE:

REDUCTION OF CONDENSATION.

SNK-6 BAR DUMP SINK:

PLUMBING FIXTURE SCHEDULE

COLD

WATER

НОТ

WATER

1/2"

1/2"

1/2"

1/2"

1/2"

1/2"

1-1/2"

1/2"

1/2"

PIPE SIZE CONNECTION

WASTE

1-1/2"

INDIRECT

WASTE

1-1/2"

INDIRECT

WASTE

(3) 1-1/2"

INDIRECT

WASTE

1-1/2"

1-1/2"

INDIRECT

WASTE

1-1/2"

1-1/2"

1-1/2"

VENT

1-1/2"

MIXED

WATER

1/2"

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. ANY CONFLICTS BETWEEN MODEL NUMBER AND

DESCRIPTION THE DESCRIPTION SHALL PREVAIL. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND

INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S

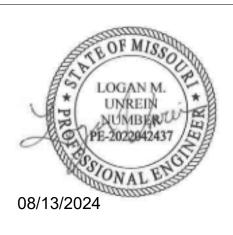
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PLUMBING SCHEDULES

P601

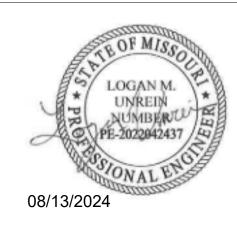
	PIF	PING	MATE	=RI4	<u> </u>	SCHE	:DUI	F				
	PIPING		1417 ( 1 1	_	<u> </u>			TINGS	MAX. WO	ORKING	FIELD TES	T
SYSTEM	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP. (DEG. F.)	PRESSURE (PSI)	TIME
DOMESTIC COLD WATER (ABOVE GRADE)	ALL	L	N/A	N/A	B88	CP	WC	SJ	100	180	150	2 HR
DOMESTIC HOT WATER/HOT WATER RECIRC. (ABOVE GRADE)	ALL	L	N/A	N/A	B88	СР	wc	SJ	100	180	150	2 HR
NATURAL GAS	2" & SMALLER	ERW	40	В	A53	BLK CS	MI	THRD	60	160	90	2 HR
NATURAL GAS	2-1/2" & LARGER	ERW	40	В	A53	BLK CS	BLK CI	WELDED & FLANGE	60	100	90	2 HR
NOTES: BLK- BLACK	S-BRAZED JOINT	1	<u>'</u>	1	1	1	1			1		

BLK- BLACK
CI-CAST IRON
CP- COPPER
CS- CARBON STEEL
MI-MALLEABLE IRON
S-BRAZED JOINT
SJ-SOLDER JOINT
THRD-THREADED
WELD-WELDED
WC - WROUGHT COPPER

PIPING MATERIAL SCHEDULE												
	PIPING						FITTING	3S	MAX. WC	ORKING	FIELD TEST	Γ
SYSTEM	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP. (DEG. F.)	PRESSURE (PSI)	TIME
SANITARY GREASE WASTE (ABOVE GRADE)	ALL	N/A	N/A	N/A	A74	CI	CI	NH	4.33	-	4.33	2 HR
SANITARY VENT (ABOVE GRADE)	ALL	N/A	N/A	N/A	A 888	CI	CI	NH	4.33	-	4.33	2 HR
CONDENSATE INDIRECT WASTE (ABOVE GRADE)	ALL	N/A	40	N/A	D 2665	PVC	PVC	SF	4.33	-	4.33	2 HR
NOTES:												
BLK- BLACK	S-BRAZED JOIN	Γ	SF - SOCKE	Γ FITTING	S							
CI-CAST IRON	SJ-SOLDER JOIN	١T	NH-NO HUB									
CP- COPPER	THRD-THREADE	D										
CS- CARBON STEEL	WELD-WELDED											
MI-MALLEABLE IRON	PVC											

				INSULATION					
SYSTEM	TYPE	TEMPERATURE RATING	THERMAL CONDUCTIVITY	THICKNESS	PIPE SIZE	FITTING COVERS	LAGGING	PIPE SUPPORT	NOTES
DOMESTIC COLD WATER	TYPE 1, 1- PIECE MOLDED GLASS FIBER WITH ASJ	40 DEG. TO 450 DEG. F.	0.22 @ 75 DEG. F.	1/2"	ALL SIZES	1- PIECE PVC		INSULATION SHIELD	1
DOMESTIC HOT & RECIRCULATING WATER	TYPE 1, 1- PIECE MOLDED GLASS FIBER WITH ASJ	40 DEG. TO 450 DEG. F.	0.22 @ 75 DEG. F.	1/2"	ALL SIZES	1- PIECE PVC		INSULATION SHIELD	1
WATER									

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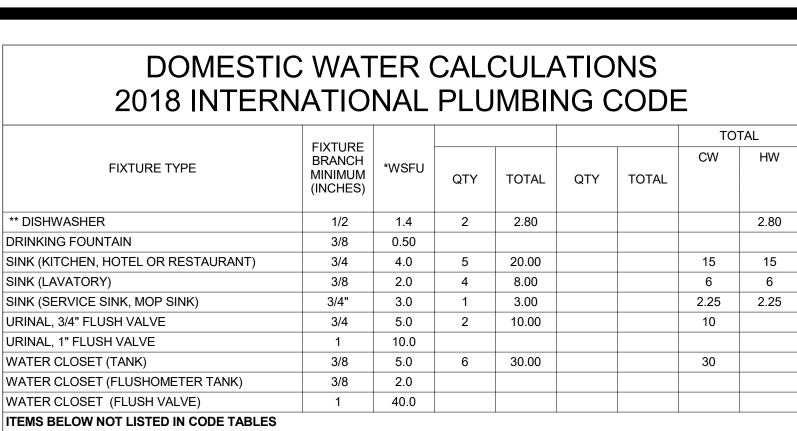
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PLUMBING DOMESTIC WATER PIPING ISOMETRIC

P700



1/2 1.0 1 1.00

1/2 2.0 4 8.00

1/2 1 2 2.00

1-1/2"

3 3.00

1.0

1.0

1.00

3

6 3

6 6

\*WSFU = PUBLIC OR PRIVATE/PUBLIC FIXTURE UNITS PER: 2018 INTERNATIONAL PLUMBING CODE (IPC), 2018 IPC

1/2

\*\* FU = PRIVATE ONLY FIXTURE UNITS PER: 2018 INTERNATIONAL PLUMBING CODE (IPC), 2018 IPC

TOTAL FIXTURE UNITS PER FLOOR:

89

CW FIXTURE UNITS: 81.25

COLD WATER SERVICE SIZE @ 5PSI: HW FIXTURE UNITS: 35.05

FLUSH VALVE
TANK TYPE FIXTURE
MAXIMUM GPM FLOW:

3/8" CONNECTION - COFFEE MACHINE

3/8" CONNECTION - ICE MAKER

WATER DISPENSER

BEER GLASS WASHER

HAND WASH SINK

MAXIMUM GPM FLOW:

FLUSH VALVE

64.3

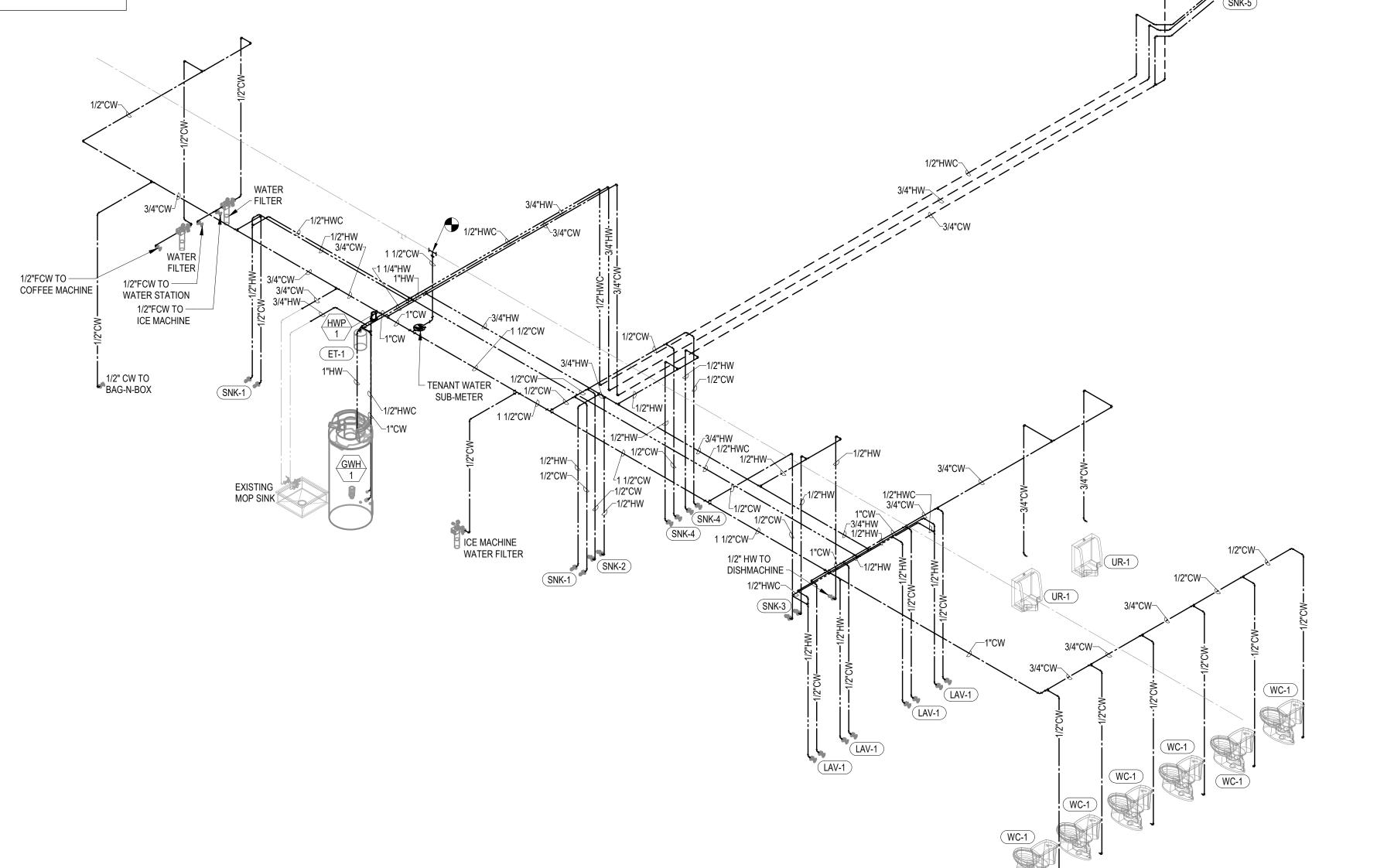
TANK TYPE FIXTURE

VELOCITY IN FPS: [(0.408 x GPM)/inside Pipe Diameter Squared]

8.7

VELOCITY INVITO. [(0.400 x Of W//illiside ripe Diameter Oquared)

DOMESTIC WATER SERVICE ENTRANCE SHALL BE 1-1/2" BASED ON A MAXIMUM CALCULATED DEMAND OF 87 GPM



1/2" CW TO BEER GLASS

RINSER ---

1/2"CW-

1/2" CW TO BEER GLASS RINSER — ICE MACHINE

WATER FILTER

PLUMBING DOMESTIC WATER PIPING ISOMETRIC

1) ISOMETRIC





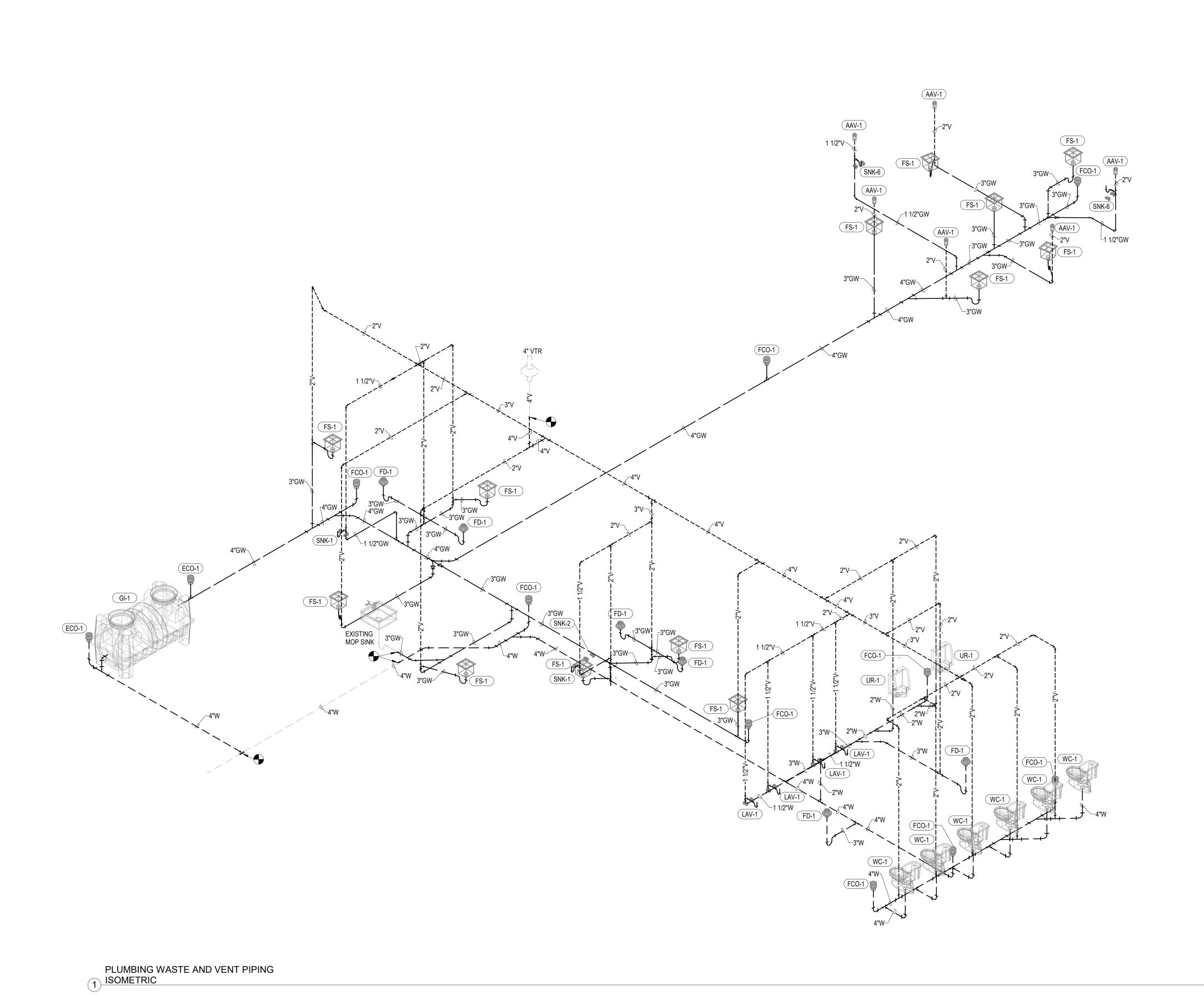
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PLUMBING WASTE AND VENT PIPING ISOMETRIC



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PLUMBING NATURAL GAS PIPING ISOMETRIC

P702

1) FIRE PROTECTION NEW WORK PLAN 1/8" = 1'-0"

### **GENERAL NOTES**

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- 2. CONTRACTOR IS TO SUBMIT PROPOSED SPRINKLER HEAD AND ROUTING COORDINATION DRAWINGS TO THE ARCHITECT. ARCHITECT IS TO INDICATE NEEDED COORDINATION ITEMS SUCH AS CEILING LAYOUTS AND PIPING EXPOSURE TO THE CONTRACTOR. APPROVAL OF THE CONTRACTORS DESIGNS BY THE ARCHITECT WILL BE REQUIRED BEFORE DESIGN FINALIZATION AND INSTALLATION.
- 3. SYSTEM DESIGN IS BASED ON 2018 IBC, 2018 IFC, 2017 NFPA 13, 2017 NFPA 14, 2017 NFPA 24, AND ALL LOCAL AMENDMENTS.
- 4. THE INTENT OF THESE DOCUMENTS IS A PERFORMANCE SPECIFICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE SPRINKLER SYSTEM DESIGN FOR ALL SPACES IN ACCORDANCE WITH ALL DESIGN STANDARDS AND REQUIREMENTS AS INDICATED WITHIN THESE DOCUMENTS.
- 5. SPRINKLER DESIGN DEMANDS SHALL BE AS FOLLOWING FOR WET SYSTEMS:
- ALL SPACES ARE LIGHT HAZARD UNLESS NOTED OTHERWISE ON DRAWINGS.
  LIGHT HAZARD: 0.10 GPM/SF OVER 1500 SQ. FT. + 100 GPM HOSE
- ALLOWANCE

   ORDINARY HAZARD 1: 0.15 GPM/SF OVER 1500 SQ. FT. + 250 GPM HOSE ALLOWANCE. MARKED WITH '(OH-1)'

   ORDINARY HAZARD 2: 0.19 GPM/SF OVER 2600 SQ. FT. + 500 GPM HOSE ALLOWANCE. MARKED WITH '(OH-2)'
- DESIGN AREAS MAY UTILIZE QUICK RESPONSE SPRINKLER AREA REDUCTIONS PER NFPA 13.
- 6. THE ENTIRE BUILDING SHALL BE FULLY SPRINKLERED, AS PER NFPA 13. SPRINKLERS ARE SUPPLIED BY A SINGLE WET PIPE ZONE. SPRINKLERS MAY BE OMITTED WHERE ALLOWED BY NFPA 13. SPRINKLERS ARE NOT REQUIRED WITHIN NONCOMBUSTIBLE CONCEALED SPACES AS PER NFPA 13.
- 7. LISTED SPRINKLERS SHALL BE USED AND INSTALLED WITH DEFLECTORS LOCATED PER NFPA 13 AND THEIR LISTING. PROVIDE SPRINKLERS BELOW DUCTS OR OTHER OBSTRUCTIONS GREATER THAN 4'-0" WIDE WHICH WOULD OBSTRUCT SPRINKLER SPRAY PATTERN IN ACCORDANCE WITH NFPA 13
- 8. SPRINKLERS WITHIN 2'-6" OF A HORIZONTAL DISCHARGE HEATING SUPPLY DIFFUSER OR 12" OF A VERTICAL DISCHARGE HEATING SUPPLY DIFFUSER SHALL BE INTERMEDIATE TEMPERATURE SPRINKLERS. INTERMEDIATE TEMPERATURE SPRINKLERS MAY BE UTILIZED THROUGHOUT IN ACCORDANCE WITH NFPA 13. SPRINKLERS WITHIN MECHANICAL, ELECTRICAL, AND COMMUNICATIONS ROOMS SHALL BE INTERMEDIATE TEMPERATURE RATED AT MINIMUM.
- 9. VALVES ON CONNECTIONS TO WATER SUPPLIES, SECTIONAL CONTROL VALVES AND OTHER VALVES IN SUPPLY PIPES TO SPRINKLERS SHALL BE SUPERVISED. ALL WIRING OF SUPERVISORY SWITCHES BY DIV 28.
- 10. ALL SPRINKLER PIPE 2" AND SMALLER SHALL BE SCHEDULE 40. PIPE 2-1/2" AND LARGER MAY BE SCHEDULE 10.
- 11. THE SPRINKLER SYSTEM OR SYSTEMS ARE TO BE TESTED IN ACCORDANCE WITH THE ADOPTED APPLICABLE STANDARDS.
- 12. THE SEISMIC DESIGN CATEGORY IS PRESUMED TO BE CATEGORY B, THEREFORE SEISMIC BRACING WOULD NOT REQUIRED; HOWEVER, CONTRACTOR TO CONFIRM.
- 13. DRAWINGS ARE SUBMITTED FOR APPROVAL PER NFPA 13.
- 14. FLOW TEST: CONTRACTOR SHALL CONDUCT AN ACTUAL FLOW TEST OR OBTAIN FLOW INFORMATION AT THE VICINITY OF THE PROJECT SITE AS ACCEPTABLE TO THE AHJ. FLOW INFORMATION SHALL BE FROM WITHIN THE PAST 12 MONTHS OF SUBMITTAL DATE.
- 15. PROVIDE CONCEALED PENDANT TYPE SPRINKLERS WITH COVER PLATE TO MATCH CEILING IN BAR, DINING, VIP ROOM, LOBBY, RESTROOMS, GAME AND GAME START AREAS. PROVIDE SEMI-RECESSED PENDENT TYPE SPRINKLERS IN KITCHEN, STORAGE AND CORRIDOR 110. WHERE EXPOSED, PROVIDE UPRIGHT SPRINKLERS WITH CHROME FINISH. TEMPERATURE RATING OF SPRINKLERS, SPACING AND INSTALLATION SHALL BE PER NFPA #13. ROUTE ALL PIPING CONCEALED IN JOIST SPACE AND CONCEALED ABOVE CEILING IN AREAS WITH FINISHED CEILING.
- 16. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL ZONE CONTROL VALVES, FLOW SWITCHES, PRESSURE SWITCHES, SUPERVISED GATE VALVE, LOCAL ALARM AND COORDINATE WITH ELECTRICAL/FIRE ALARM CONTRACTOR FOR ALL DEVICES THAT REQUIRE WIRING PER NFPA-13. WIRING SHALL BE INCLUDED IN FIRE PROTECTION CONTRACTOR'S SCOPE.
- 17. CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS, AND HYDRAULIC CALCULATIONS WITH 10% SAFETY. DOCUMENTS ARE TO BE SEALED BY A LICENSED PROFESSIONAL ENGINEER CONTRACTOR SHALL DETERMINE PIPE SIZES BY HYDRAULIC CALCULATIONS. ANY CHANGES TO APPROVED SHOP DRAWINGS SHALL BE AT CONTRACTOR'S EXPENSE. IN ANY CONFLICT BETWEEN SPECIFICATIONS, DRAWINGS AND CODES, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. REGARDLESS OF DRAWINGS OR SPECIFICATIONS, INSTALL NO WORK CONTRARY TO OR BELOW MINIMUM LEGAL CODES AND STANDARDS. THE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE PART OF PERFORMANCE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING 100% COVERAGE THROUGHOUT THE BUILDING PER APPLICABLE CODES AND STANDARDS AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 18. SEE SHEET FP500 FOR TYPICAL FIRE SPRINKLER PENDANT INSTALLATION DETAILS AND HANGERS AND SUPPORT DETAILS.

# PLAN NOTES: #

 PROVIDE DRY PENDANT OR SIDEWALL HEADS INSIDE OF WALK-IN COOLER. COORDINATE WITH WALK-IN SUPPLIER FOR PENETRATION REQUIREMENTS.

# **LEGEND**:

- OH-1 ORDINARY HAZARD GROUP 1
- OH-2 ORDINARY HAZARD GROUP 2

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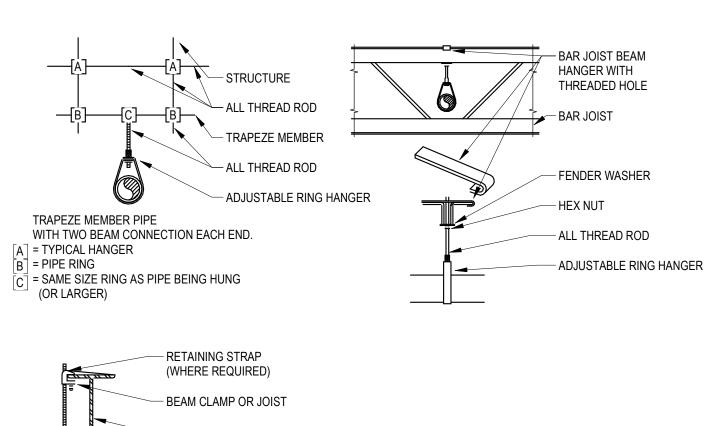
FIRE PROTECTION NEW WORK PLAN

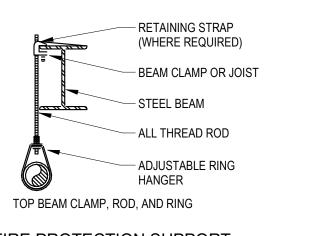
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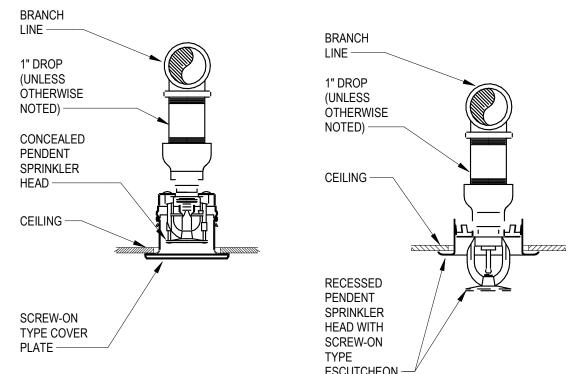
FIRE PROTECTION DETAILS

24.02. Craft Putt Lee's Summit





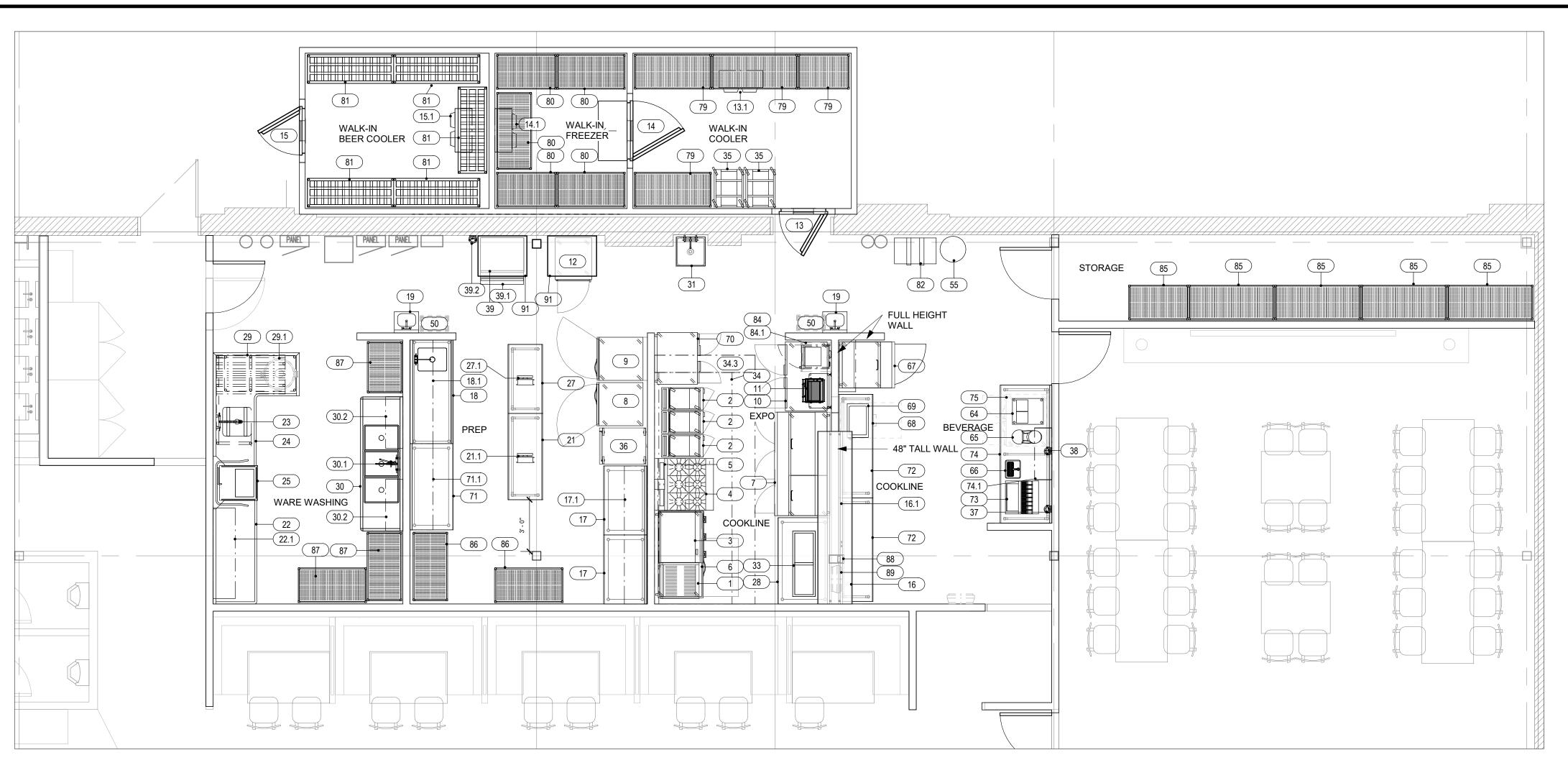






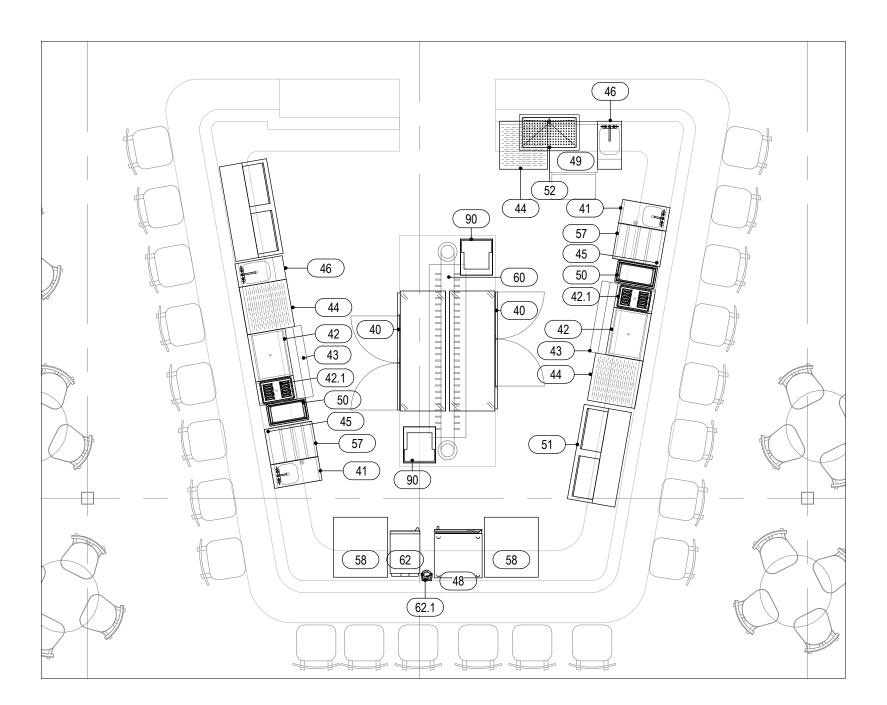


3 SPRINKLER LOCATION IN CEILING TILE NOT TO SCALE



# KITCHEN EQUIPMENT PLAN

1/4" = 1'-0"



# BAR EQUIPMENT PLAN

1/4" = 1'-0"

REFRIGERATION SCHEDULE
CONDENSING UNITS LOCATED ON CONCRETE SLAB/ BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR EXACT LOCATIONS.
13.2 15.2
REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL REFRIGERATION EQUIPMENT.

FOODSERVICE EQUIPMENT SCHEDULE

EM O.			T
<u> </u>	QTY.	DESCRIPTION	REMARKS
1	1	CHARBROILER, 24" COUNTERTOP, GAS	INCINIAINO
2	3	FRYER, GAS	
3	1	GRIDDLE, 36" COUNTERTOP, GAS	
4	1	RANGE, 36", 6-BURNER, GAS	
5	1	SALAMANDER, GAS	
6	1	REFRIGERATED BASE 60"	
7	1	MEGA TOP SANDWICH/SALAD PREP REFRIGRATOR	
8	1	REFRIGERATOR, REACH-IN	
9	1	FREEZER, REACH-IN	
0	2	REFRIGERATOR, WORKTOP 48"	MOLINIT AT FOUR CO
).1	2	WALL SHELVING, EPOXY, STACKED (14X24)	MOUNT AT 50" & 62
1	1	SANDWICH/PANINI GRILL	7 11
2	1	MOBILE HEATED CABINET	
3	1	WALK-IN COOLER	
3.1	1	EVAPORATOR COIL - COOLER	
3.2	1	WALK-IN COOLER CONDENSING UNIT	
4	1	WALK-IN FREEZER	
.1	1	EVAPORATOR COIL - FREEZER	
.2	1	WALK-IN COOLER CONDENSING UNIT	
5	1	WALK-IN COOLER	
.1	1	EVAPORATOR COIL - BEER COOLER	
.2	1	WALK-IN COOLER CONDENSING UNIT	
6	1	PASS-THRU SHELF 120"	
.1	1	HEAT LAMP	
7	2	WORK TABLE (30X48)	MOUNTATION
.1	1	STAINLESS STEEL WALL SHELVES	MOUNT AT 60" AFF
8	1	WORK TABLE W/ PREP SINK (30 X 72)	MOUNT AT COUR
.1	1	STAINLESS STEEL WALL SHELVES	MOUNT AT 60" AFF
9 n	2	WALL MOUNT HANDSINK W/ FAUCET SPARE NUMBER	
0 1	1	WORK TABLE (24 X 60)	
.1	1	CORD REEL	
. ı 2	1	CLEAN DISHTABLE	
.1	1	SOLID SORTING SHELVES - WALL MOUNTED	
3	1	PRE-RINSE FAUCET W/ ADD ON FAUCET	
4	1	SOILED DISHTABLE W/ PRE-RINSE	
5	1	DOOR TYPE DISHMACHINE	
3	1	SPARE NUMBER	
7	1	WORK TABLE (24 X 48)	
.1	1	CORD REEL	
3	1	WORK TABLE (36 X 60)	
9	1	TABLE MOUNT DOUBLE SIDED RACK SHELF	
.1	1	TRASH CONTAINER	
1	1	THREE COMPARTMENT SINK	
.1	1	PRE-RINSE FAUCET	<ul><li>Varios&gt;</li></ul>
.2	1	WALL SHELVES - DOUBLE STACKED	<varies></varies>
1 2	1	MOP SINK W/ FAUCET - EXISTING SPARE NUMBER	EXISTING
3	1	HOT FOOD WELLS, DROP-IN, ELECTRIC	
1	1	TYPE I EXHAUST HOOD	
.1	2	ROOF MOUNTED EXHAUST FAN	
.2	1	MAKE UP AIR UNIT	
.3	1	CONTROL PANEL	
5	2	BUN PAN RACK	
3	1	HEATED HOLDING PROOFING CABINET, HALF HEIGHT	
7	1	WATER FILTER, ICE MACHINE AND WATER STATION	
3	1	WATER FILTER, COFFEE MACHINE	
)	1	ICE MAKER, CUBE	
.1	1	ICE BIN	
.2	1	WATER FILTER, ICE MACHINE	
) 1	2	BACK BAR COOLER 60" HAND SINK	
	2		
.1	2	Ice Bin Underbar Ice Bin	
. I 3	2	UNDERBAR BASICS™ SPEED RAIL, DOUBLE TIER,	
•	4	24"W X 8-1/8"D X 6-1/2"H, (10-12) BOTTLE CAPACITY	
1	3	DRAIN BOARD W/ STORAGE	
5	2	SODA GUN MOUNTED UNDERBRACKER - BY VENDOR	BY VENDOR
3	2	DUMP SINK	
7	1	SPARE NUMBER	
3	1	WINE REFRIGERATOR, UNDERCOUNTER	
)	1	UNDERCOUNTER DISHWASHER	
)	4	TRASH RECEPTACLE	
	2	BOTTLE COOLER	
<u>2</u>	1	BEVERAGE DRAIN TROUGH	
54 5	1	SPARE NUMBER CO2 TANK - BY OTHERS	BY OTHERS
6	1	SPARE NUMBER	D. OTTILINO
7	2	LIQUOR DISPLAY	
3	2	UNDERCOUNTER FREEZER	
)	1	SPARE NUMBER	
)	1	BEER TAPS W/ DRAINBOARD	
I	1	SPARE NUMBER	
2	1	ICE MAKER W/ BIN, NUGGET	
	1	WATER FILTER, ICE MACHINE	
1		SPARE NUMBER	I
1	1	COFFEE BREWER SY SEVEN	DV 07: :== 7
1	1	COFFEE CRIMDER BY OTHERS	BY OTHERS
1	1	COFFEE GRINDER-BY OTHERS	BY OTHERS BY OTHERS
1	1 1 1	COFFEE GRINDER-BY OTHERS WATER STATION	
1	1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE	BY OTHERS
1 3 4 5 5 7 1	1 1 1 1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED	BY OTHERS
1	1 1 1 1 1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS	BY OTHERS
1	1 1 1 1 1 1 1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP	BY OTHERS
1	1 1 1 1 1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP FREEZER, WORKTOP	BY OTHERS
1 3 5 5 7 1 3 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 1 1 1 1 1 1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP FREEZER, WORKTOP WORK TABLE (30X60)	BY OTHERS  MOUNT AT 60" AFF
1	1 1 1 1 1 1 1 1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP FREEZER, WORKTOP WORK TABLE (30X60) STAINLESS STEEL WALL SHELVES	BY OTHERS
1 3 5 5 5 7 1 3 9 9 9 1 1 1 2 2	1 1 1 1 1 1 1 1 1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP FREEZER, WORKTOP WORK TABLE (30X60) STAINLESS STEEL WALL SHELVES WORK TABLE (24X72)	BY OTHERS  MOUNT AT 60" AFF  MOUNT AT 60" AFF
1	1 1 1 1 1 1 1 1 1 1 1 2	COFFEE GRINDER-BY OTHERS  WATER STATION  REFRIGERATOR, SANDWICH PREP TABLE  WALL SHELVES - DOUBLE STACKED  DRAWER WARMERS ON CASTERS  FOOD PAN WARMER, COUNTERTOP  FREEZER, WORKTOP  WORK TABLE (30X60)  STAINLESS STEEL WALL SHELVES  WORK TABLE (24X72)  SODA/ICE DROP IN DISPENSER-BY OTHERS	BY OTHERS  MOUNT AT 60" AFF
1	1 1 1 1 1 1 1 1 1 1 1 2	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP FREEZER, WORKTOP WORK TABLE (30X60) STAINLESS STEEL WALL SHELVES WORK TABLE (24X72)	BY OTHERS  MOUNT AT 60" AFF  MOUNT AT 60" AFF
1	1 1 1 1 1 1 1 1 1 1 2 1	COFFEE GRINDER-BY OTHERS  WATER STATION  REFRIGERATOR, SANDWICH PREP TABLE  WALL SHELVES - DOUBLE STACKED  DRAWER WARMERS ON CASTERS  FOOD PAN WARMER, COUNTERTOP  FREEZER, WORKTOP  WORK TABLE (30X60)  STAINLESS STEEL WALL SHELVES  WORK TABLE (24X72)  SODA/ICE DROP IN DISPENSER-BY OTHERS  WORK TABLE (36 X 96)	MOUNT AT 60" AFF  MOUNT AT 60" AFF  BY OTHERS
1	1 1 1 1 1 1 1 1 1 1 2 1 1	COFFEE GRINDER-BY OTHERS  WATER STATION  REFRIGERATOR, SANDWICH PREP TABLE  WALL SHELVES - DOUBLE STACKED  DRAWER WARMERS ON CASTERS  FOOD PAN WARMER, COUNTERTOP  FREEZER, WORKTOP  WORK TABLE (30X60)  STAINLESS STEEL WALL SHELVES  WORK TABLE (24X72)  SODA/ICE DROP IN DISPENSER-BY OTHERS  WORK TABLE (36 X 96)  WALL SHELVES - DOUBLE STACKED	MOUNT AT 60" AFF  MOUNT AT 60" AFF  BY OTHERS
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 2 1 1	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP FREEZER, WORKTOP WORK TABLE (30X60) STAINLESS STEEL WALL SHELVES WORK TABLE (24X72) SODA/ICE DROP IN DISPENSER-BY OTHERS WORK TABLE (36 X 96) WALL SHELVES - DOUBLE STACKED REFRIGERATOR, UNDERCOUNTER	MOUNT AT 60" AFF  MOUNT AT 60" AFF  BY OTHERS
1	1 1 1 1 1 1 1 1 1 2 1 1 2	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP FREEZER, WORKTOP WORK TABLE (30X60) STAINLESS STEEL WALL SHELVES WORK TABLE (24X72) SODA/ICE DROP IN DISPENSER-BY OTHERS WORK TABLE (36 X 96) WALL SHELVES - DOUBLE STACKED REFRIGERATOR, UNDERCOUNTER SPARE NUMBER WIRE SHELVING UNIT, COOLER STORAGE WIRE SHELVING UNIT, FREEZER STORAGE	MOUNT AT 60" AFF  MOUNT AT 60" AFF  BY OTHERS
.1 3 4 5 6 7 .1 3 9 0 1 .1 2 3 4 .1 5 7 8 9 0 1	1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 2	COFFEE GRINDER-BY OTHERS WATER STATION REFRIGERATOR, SANDWICH PREP TABLE WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS FOOD PAN WARMER, COUNTERTOP FREEZER, WORKTOP WORK TABLE (30X60) STAINLESS STEEL WALL SHELVES WORK TABLE (24X72) SODA/ICE DROP IN DISPENSER-BY OTHERS WORK TABLE (36 X 96) WALL SHELVES - DOUBLE STACKED REFRIGERATOR, UNDERCOUNTER SPARE NUMBER WIRE SHELVING UNIT, COOLER STORAGE	MOUNT AT 60" AFF  MOUNT AT 60" AFF  BY OTHERS

SPARE NUMBER OVEN, MICROWAVE

1 POS PRINTER

2 POS MONITOR

90 2 POS AT BAR 91 2 GLYCOL SYSTEM

87 3 WIRE SHELVING UNIT, POTS AND PANS

MOUNT AT 60" AFF

**GENERAL NOTES** 

THESE DRAWINGS ARE TO BE USED AS AN INSTRUMENT OF REFERENCE BY ALL OTHER TRADES AND CONTRACTORS. ALL TRADES SHALL VERIFY THE INFORMATION AS INDICATED ON THESE PLANS. DIMENSIONS AND REQUIREMENTS FOR ALL EQUIPMENT THAT IS LISTED AS EXISTING, PROVIDED BY OTHERS OR PROVIDED BY OWNER, MUST BE VERIFIED WITH THE

APPROPRIATE PARTIES. ARCHITECT TO LOCATE ALL REMOTE COMPRESSORS
AND CONDENSERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

TRIMARK DOES NOT EMPLOY A LICENSED ARCHITECT OF ENGINEER. THESE DOCUMENTS PROVIDED BY TRIMARK ARE GUIDELINE DOCUMENTS ONLY AND ARE INTENDED TO BE INCORPORATED INTO THE FINAL CONSTRUCTION DOCUMENTS BY A LICENSED ARCHITECT OR ENGINEER THAT IS EMPLOYED BY THE OWNER. FINAL CODE COMPLIANCE, PLAN SUBMITTAL AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.

CONSTRUCTION
As Noted on Plans Review

North: Hockenbergs 14603 W. 112th Street Lenexa, KS 66215 p. 913-491-4999

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Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

**REVISIONS** 

DATE NO. DESCRIPTION 07.12.2024 1 MEP ROUGH-INS 07.29.2024 2 PERMIT SET

PROJECT #: 06/27/2024 DRAWN BY: APPROVED BY: APR

FOODSERVICE

**EQUIPMENT PLAN** 

ALL EXHAUST/SUPPLY FANS.

**EXHAUST/SUPPLY FAN SCHEDULE** 

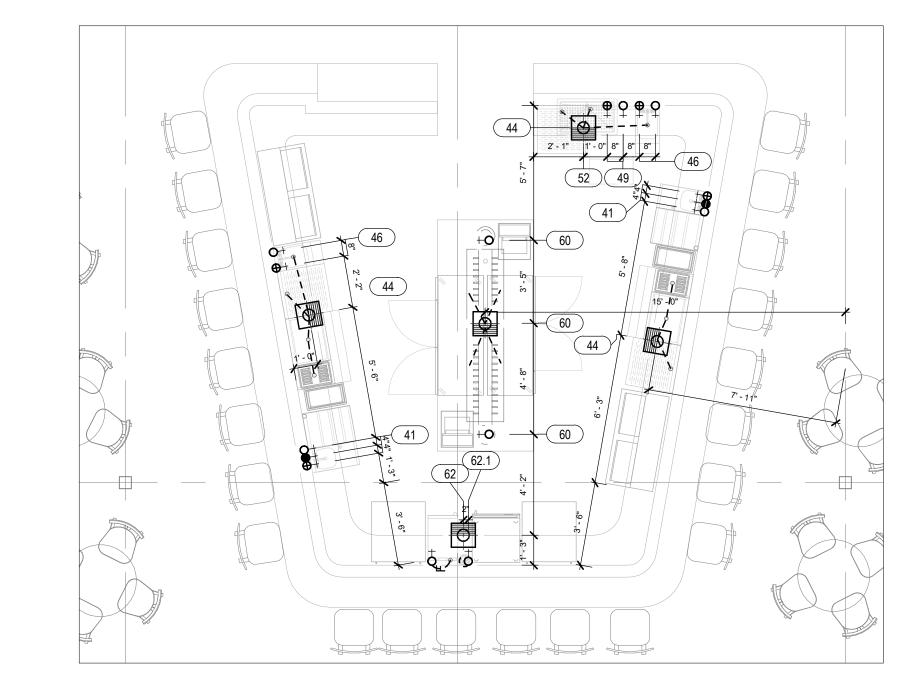
FANS LOCATED ON BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR EXACT LOCATIONS

REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR

# PLUMBING -KITCHEN ROUGH-IN PLAN

1/4" = 1'-0"

ITEN A			1.15.47	1.1\A7	CVA	CVA	DW	DW	040	040	0.40	
ITEM NO.	QTY.	DESCRIPTION	HW SIZE	HW AFF	CW SIZE	CW AFF	DW SIZE	DW AFF	GAS SIZE	GAS AFF	GAS MBTU	PLUMBING REMARKS
1	1	CHARBROILER, 24" COUNTERTOP, GAS							3/4"	18"	58.0	QUICK DISCONNECT BY KEC
2	3	FRYER, GAS							3/4"	18"	120.0	QUICK DISCONNECT BY KEC
3	1	GRIDDLE, 36" COUNTERTOP, GAS							3/4"	18"	81.0	QUICK DISCONNECT BY KEC
4	1	RANGE, 36", 6-BURNER, GAS							3/4"	18"	215.0	QUICK DISCONNECT BY KEC
5	1	SALAMANDER, GAS							3/4"	66"	50.0	QUICK DISCONNECT BY KEC
13.1	1	EVAPORATOR COIL - COOLER										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
14.1	1	EVAPORATOR COIL - FREEZER										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
15.1	1	EVAPORATOR COIL - BEER COOLER										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
18	1	WORK TABLE W/ PREP SINK (30 X 72)	1"	14"	1"	14"	3 1/2"					PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
19	2	WALL MOUNT HANDSINK W/ FAUCET	1/2"	14"	1/2"	14"	1 1/2"	16"				
23	1	PRE-RINSE FAUCET W/ ADD ON FAUCET	1/2"	14"	1/2"	14"						
24	1	SOILED DISHTABLE W/ PRE-RINSE	1/2"	14"	1/2"	14"						
25	1	DOOR TYPE DISHMACHINE	1/2"	14"								PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
30	1	THREE COMPARTMENT SINK										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
30.1	1	PRE-RINSE FAUCET	1/2"	14"	1/2"	14"						
33	1	HOT FOOD WELLS, DROP-IN, ELECTRIC										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
34.2	1	MAKE UP AIR UNIT							1"		186.6	QUICK DISCONNECT BY KEC
37	1	WATER FILTER, ICE MACHINE AND WATER STATION			1/2"	14"						
38	1	WATER FILTER, COFFEE MACHINE			1/2"	60"						
39	1	ICE MAKER, CUBE										
39.1	1	ICE BIN										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
39.2	1	WATER FILTER, ICE MACHINE			1/2"	60"						
41	2	HAND SINK	1/2"	14"	1/2"	14"	1 1/2"	16"				
44	3	DRAIN BOARD W/ STORAGE										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
46	2	DUMP SINK	1/2"	14"	1/2"	14"						PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
49	1	UNDERCOUNTER DISHWASHER	1/2"	14"								PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
52	1	BEVERAGE DRAIN TROUGH										
60	1	BEER TAPS W/ DRAINBOARD			1/2"							PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK, (1) CW CONNECTION AT EACH END OF DRAINBOARD FOR GLASS RINSERS
62	1	ICE MAKER W/ BIN, NUGGET										PC TO EXTEND CW LINE FROM WATER FILTER TO ICE MACHINE. PC TO EXTENDIND INDIRECT WASTELINE TO FLOOR SINK
62.1	1	WATER FILTER, ICE MACHINE			1/2"	60"						
64	1	COFFEE BREWER - BY OTHERS										BY OTHERS. PC TO EXTEND CW LINE FROM FILTER TO COFFEE BREWER. PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
66	1	WATER STATION										PC TO EXTEND CW LINE FROM FILTER TO WATER STATION MACHINE. PC TO EXTENDIND INDIRECT WASTELINE TO FLOOR SINK
73	1	SODA/ICE DROP IN DISPENSER-BY OTHERS										BY OTHERS. PC TO EXTEND CW LINE FROM FILTER TO SODA MACHINE. PC TO EXTENDIND INDIRECT WASTELINE TO FLOOR SINK
91	2	GLYCOL SYSTEM										



PLUMBING - BAR ROUGH-IN PLAN

1/4" = 1'-0"

# PLUMBING LEGEND

CONSTRUCTION
As Noted on Plans Review

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

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**REVISIONS** 

DATE NO. DESCRIPTION

07.12.2024 1 MEP ROUGH-INS

07.29.2024 2 PERMIT SET

HOT WATER

HOT WATER - SOFTENED

+O COLD WATER

S COLD WATER - SOFTENED

FILTERED WATER

DIRECT WASTE

FLOOR SINK - THREE-QUARTER GRATE

FLOOR SINK - HALF GRATE

FLOOR SINK - NO GRATE

FLOOR DRAIN

FUNNEL FLOOR DRAIN

HUB FLOOR DRAIN

AREA FLOOR DRAIN - SLOPED PER CODE

GAS DROP FROM MANIFOLD

FIRE SUPPRESSION GAS SHUT-OFF VALVE

+<del>•</del> CHILLED WATER

CHILLED WATER RETURN

⊕SS STEAM SUPPLY

CONDENSATE RETURN

# PLUMBING NOTES (DIVISION 22)

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

A. INSTALL KEC (SECTION 114000) FURNISHED FLOOR TROUGH(S).

B. INSTALL KEC (SECTION 114000) FURNISH MOP SINK(S).C. INSTALL KEC (SECTION 114000) FURNISHED FIRE SUPPRESSION

SYSTEM GAS SHUT OFF VALVE. MUST BE ACCESSIBLE AND NOT CONCEALED IN WALL OR CEILING.

D. INSTALL KEC (SECTION 114000) FURNISHED DRAIN LINE TEMPERING KIT PER MANUFACTURER'S RECOMMENDATIONS.

E. MANIFOLD DRAINS TO SINGLE CONNECTION.

F. FURNISH AND INSTALL BALL VALVE IN DRAIN LINE. VALVE TO BE IN EASILY ACCESSIBLE LOCATION.

G. INTERPLUMB BETWEEN FILTER AND EQUIPMENT. PIPING FROM WATER FILTER OUTLET TO POINTS OF USE SHALL BE CONCEALED WITHIN WALLS AND CEILINGS. EXTEND DRAIN(S) TO FLOOR SINK/FLOOR DRAIN,

H. CONNECT MIN. 110°F HOT WATER SUPPLY TO BUILT-IN OR EXTERNAL (70° RISE) BOOSTER HEATER. WHEN EXTERNAL, INSTALL TEMPERATURE/PRESSURE GAUGE(S) AS REQ'D AND EXTEND TO

DISHWASHER INLET.

I. CONNECT DRAIN(S) WITH REFRIGERATION GRADE HARD COPPER USING 1" STANDOFFS. "P" TRAP DRAIN OUTSIDE WALK-IN COMPARTMENT(S). PROVIDE AND INSTALL SLEEVES THRU WALK-IN AND BUILDING WALLS FOR DRAIN LINE(S). FOAM & CAULK AROUND SLEEVES AND DRAIN LINES. WRAP WITH DRAIN LINE HEATER AND

INSULATION WHERE SUBJECT TO FREEZING TEMPERATURES.
 J. REFRIGERATION CONTRACTOR SHALL PROVIDE WALK-IN EVAPORATOR CONDENSATE DRAIN(S) PER REFRIGERATION GENERAL REQS.
 K. PROVIDE GRAY WATER AND SLURRY PIPING TO AND FROM (SECTION 114000) FURNISHED PULPER, TROUGH, AND WATER EXTRACTOR.

INSTALL KEC (SECTION 114000) FURNISHED TROUGH INLET NOZZLES AND PROVIDE SHUT OFF VALVE AT EACH NOZZLE.

L. PROVIDE "TEE" IN HOT WATER LINE AND CAP FOR FUTURE

INSTALLATION OF CHEMICAL DISPENSING SYSTEM BY OTHERS.

M. PROVIDE CHROME PLATED PIPE AND FITTINGS WHERE EXPOSED.

N. PROVIDE AND INSTALL 3" MIN. DRAIN LINE TO 12"X12"X10" DEEP FLOOR SINK.

O. VERIFY EXACT LOCATION AND QUANTITY OF AREA FLOOR DRAIN(S) WITH THE PLUMBING ENGINEER.

AAFT PUTT

DJECT PHASE:	
<u>E:</u>	PROJECT

 DATE:
 PROJECT #:

 06/27/2024
 2024058

 DRAWN BY:
 APPROVED BY:

 NLB
 APR

HEET TITLE: FOOD

FOODSERVICE PLUMBING IN-SLAB ROUGH-IN PLAN

NUMBER:

QF201

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

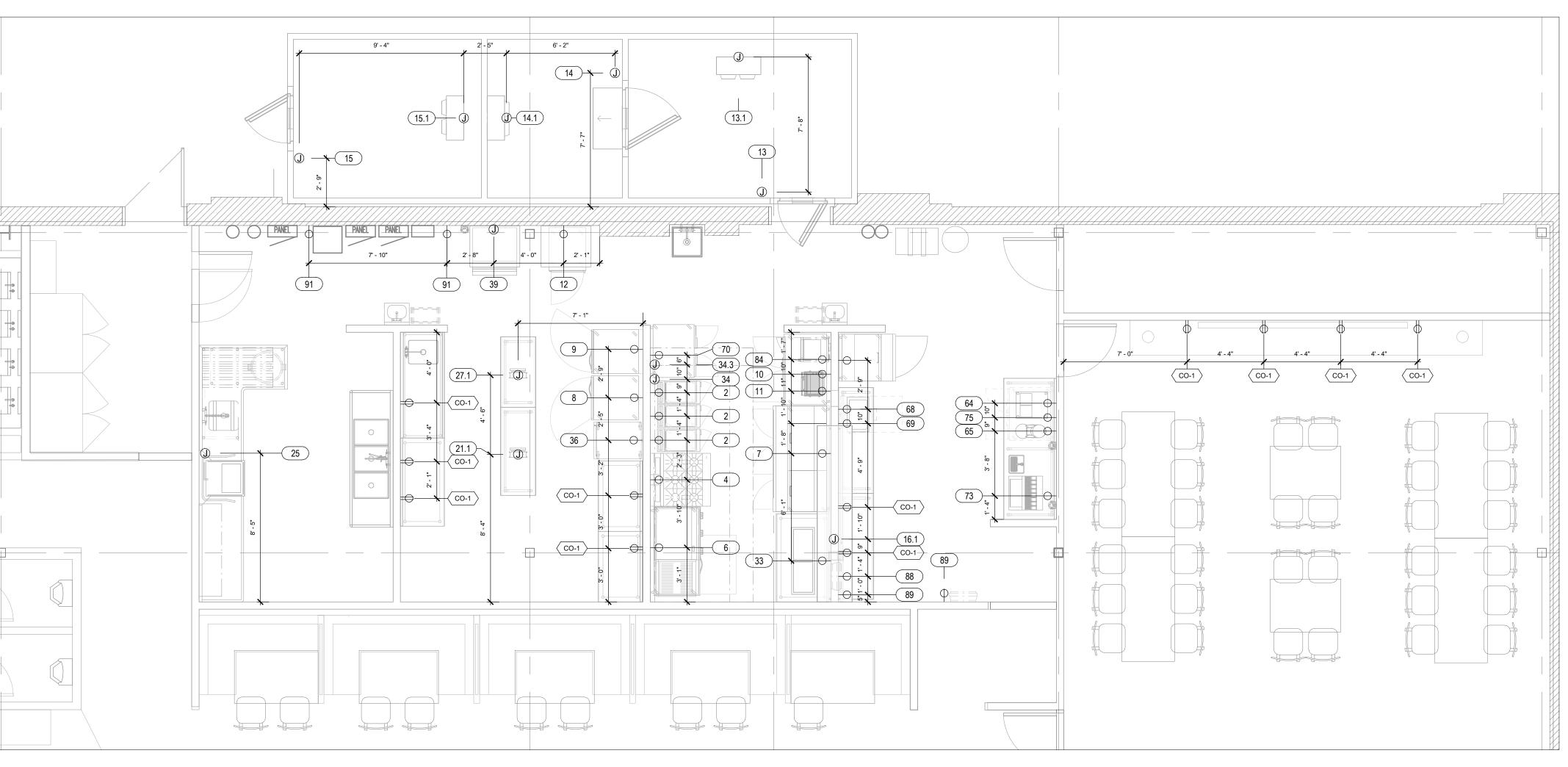
ALL EXHAUST/SUPPLY FANS.

**EXACT LOCATIONS** 

**EXHAUST/SUPPLY FAN SCHEDULE** 

FANS LOCATED ON BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR

REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR

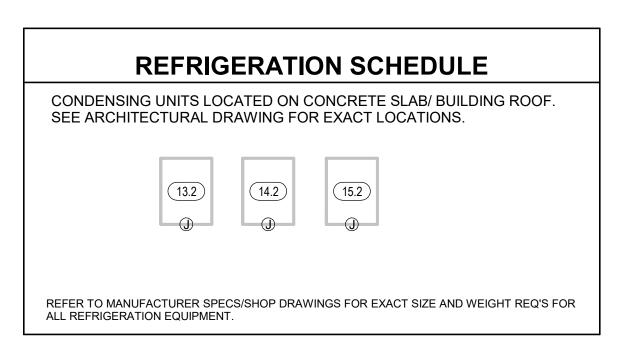


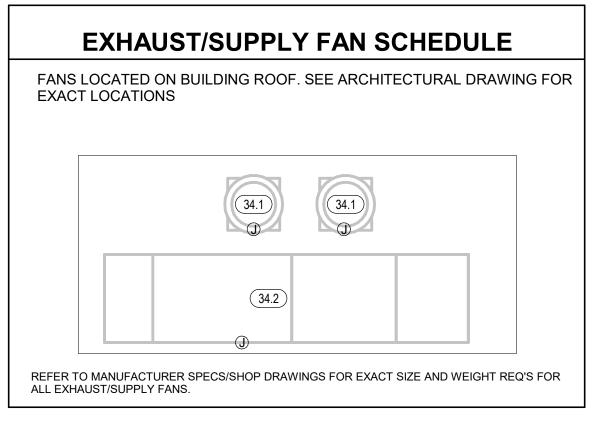
# KITCHEN ELECTRICAL ROUGH-IN PLAN

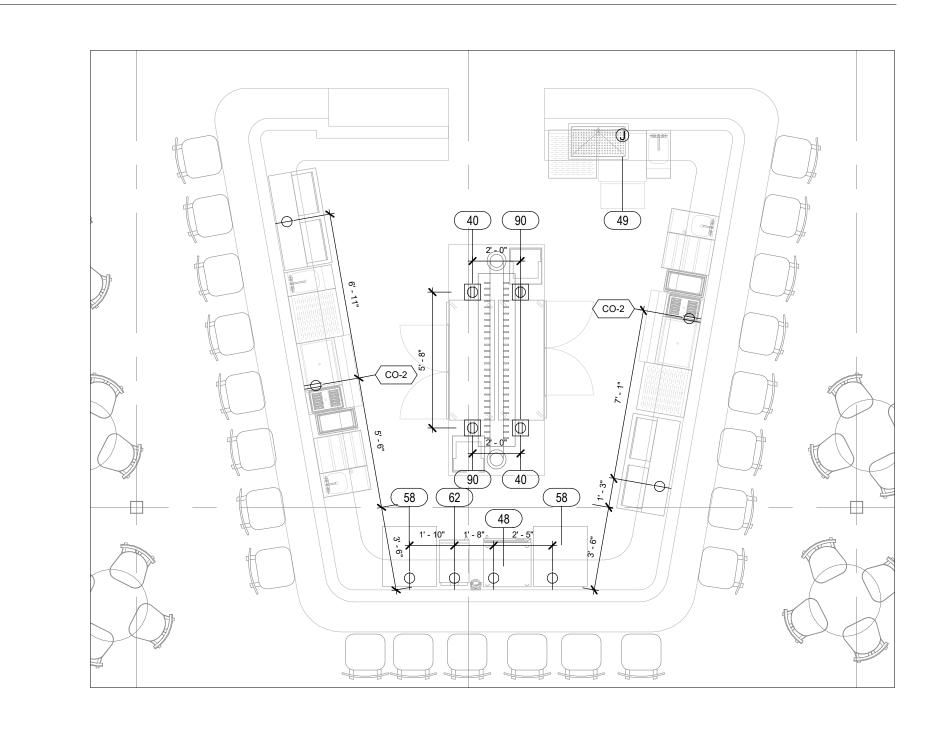
1/4" = 1'-0"

2 4 6 7 8 9 10 11 12 13 13.1	QTY.  3 1 1 1 1	DESCRIPTION FRYER, GAS RANGE, 36", 6-BURNER, GAS	VOLTS				TYPE	
4 6 7 8 9 10 11 12 13 13.1	1 1 1	,		PHASE	AMPS	TYPE	AFF	ELECTRICAL REMARKS
6 7 8 9 10 11 12 13 13.1	1 1 1	RANGE 36" 6-BURNER GAS	120	1	5.0	SR	24"	
7 8 9 10 11 12 13 13.1	1	TO THOSE, GO , G BOTTILLIN, G/16	120	1	4.0	SR	24"	
8 9 10 11 12 13 13.1	1	REFRIGERATED BASE 60"	120	1	1.7	SR	24"	
9 10 11 12 13 13.1		MEGA TOP SANDWICH/SALAD PREP REFRIGRATOR	120	1	5.4	SR	24"	
10 11 12 13 13.1		REFRIGERATOR, REACH-IN	120	1	2.0	SR	48"	
11 12 13 13.1	1	FREEZER, REACH-IN	120	1	5.0	SR	48"	
12 13 13.1	1	REFRIGERATOR, WORKTOP 48"	120	1	2.2	SR	24"	
13 13.1	1	SANDWICH/PANINI GRILL	240	1	15.0	SR	48"	
13.1	1	MOBILE HEATED CABINET	120	1	16.7	SR	24"	
	1	WALK-IN COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
10.6	1	EVAPORATOR COIL - COOLER	208	1	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
13.2	1	WALK-IN COOLER CONDENSING UNIT	208	3	15.0	JB		JB LOCATION TBD BY ARCHITECT. VERIFY ROUGH-INS
14	1	WALK-IN FREEZER	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
14.1	1	EVAPORATOR COIL - FREEZER	208	1	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
14.2	1	WALK-IN COOLER CONDENSING UNIT	208	3	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
15	1	WALK-IN COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
15.1	1	EVAPORATOR COIL - BEER COOLER	208	1	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
15.2	1	WALK-IN COOLER CONDENSING UNIT	208	3	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
16.1	1	HEAT LAMP	120	1	25.8	JB	44"	MOUNT HORIZONTAL
21.1	1	CORD REEL	120	1	15.0	JB		CEILING MOUNT
25	1	DOOR TYPE DISHMACHINE	120	1	10.0	JB	24"	
27.1	1	CORD REEL	120	1	15.0	JB		CEILING MOUNT
33	1	HOT FOOD WELLS, DROP-IN, ELECTRIC	208	3	10.1	SR	24"	
34	<u>·</u> 	TYPE I EXHAUST HOOD	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
34.1	2	ROOF MOUNTED EXHAUST FAN	480	3	1.3	JB		LOCATION TBD BY ARCHITECT. VERIFY ROUGH INS
34.2	1	MAKE UP AIR UNIT	480	3	2.7	JB		LOCATION TBD BY ARCHITECT. VERIFY ROUGH INS
34.3	1	CONTROL PANEL	120	1	12.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
36	<u> </u>	HEATED HOLDING PROOFING CABINET, HALF HEIGHT	120	1	16.7	SR	24"	D BOWN THOM A BOVE. VEI WIT THOUGHT INC
39	<u>·</u> 	ICE MAKER, CUBE	120	1	12.0	JB	60"	
40	2	BACK BAR COOLER 60"	120	1	2.2	SR		FLOOR MOUNT RECEPTACLE
48	1	WINE REFRIGERATOR, UNDERCOUNTER	120	1	2.5	SR	24"	LOCK MOONT RECEI TAGE
49	1	UNDERCOUNTER DISHWASHER	120	1	15.0	JB	24"	
51	2	BOTTLE COOLER	120	1	5.5	<u> </u>	24"	
58	2	UNDERCOUNTER FREEZER	120	1	0.8	SR	24"	
62	1	ICE MAKER W/ BIN, NUGGET	120	1	4.0	SR	24"	
64	1	COFFEE BREWER - BY OTHERS	120	1	20.0	SR	48"	BY OTHERS - VERIFY ROUGH-INS
65	<u>'</u> 	COFFEE GRINDER-BY OTHERS	120	1	5.0	SR	48"	BY OTHERS - VERIFY ROUGH-INS
67	1	REFRIGERATOR, SANDWICH PREP TABLE	120	1	2.0	SR	24"	DI OTTILIO - VLIVII I NOUGI FIIVO
68	<u>'</u> 	DRAWER WARMERS ON CASTERS	120	1	5.3	SR	24"	
69	<u> </u>	FOOD PAN WARMER, COUNTERTOP	120	1	10.0	SR	44"	MOUNT HORIZONTAL
70	<u>'</u> 	FREEZER, WORKTOP	120	1	4.0	SR	24"	MOONTHONIZONTAL
73	<u> </u>	SODA/ICE DROP IN DISPENSER-BY OTHERS	120	1	15.0	SR	48"	BY OTHERS - VERIFY ROUGH-INS
75		REFRIGERATOR, UNDERCOUNTER	120	1	2.0	SR	24"	DI OTTENO - VENIFI NOUGH-INO
84	<u>1</u> 1	OVEN, MICROWAVE	208	1	20.0	SR	60"	
88	<u> </u>	POS PRINTER	120	1	15.0	SR	24"	
		POS AT BAR		1		SR		ELOOP MOUNT DECERTACLE
90	2	GLYCOL SYSTEM	120 208	1	16.0 8.0	SR	18" 80"	FLOOR MOUNT RECEPTACLE VERIFY ROUGH-INS WITH SHOP DRAWINGS AND INSTALLER

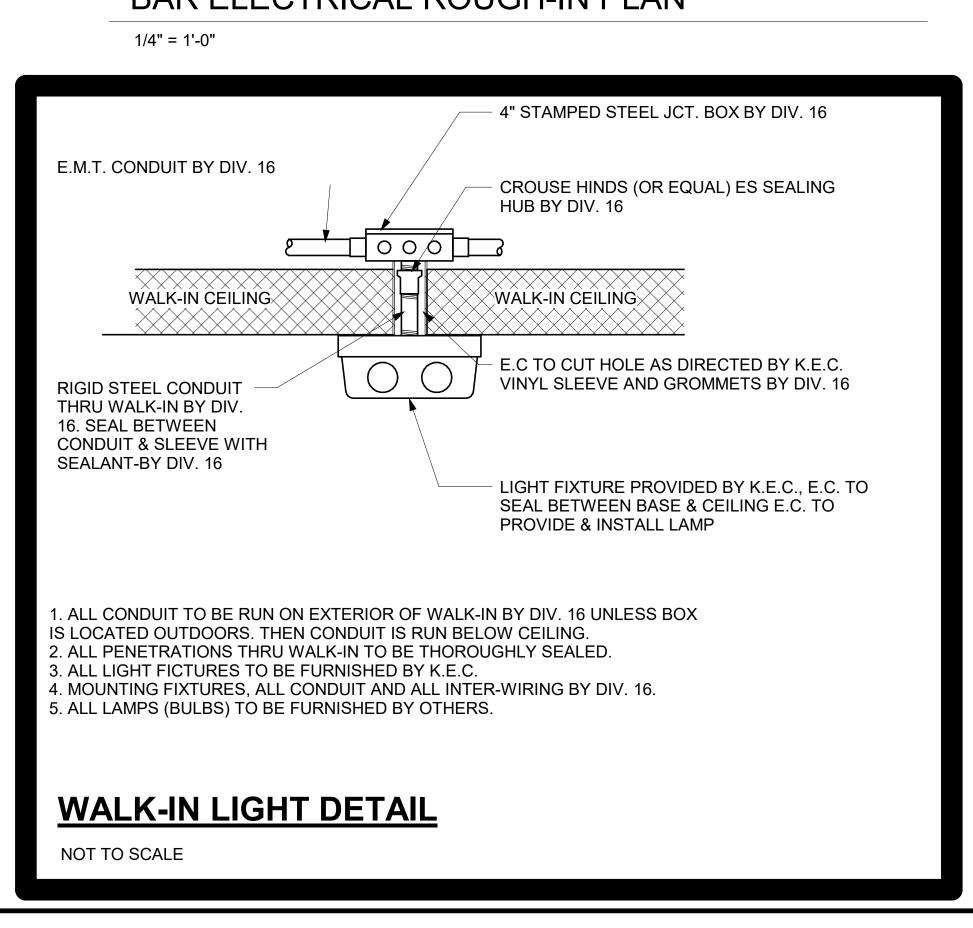
CONVENIENCE OUTLET SCHEDULE							
ITEM NO.	QTY.	TYPE	NEMA	TYPE AFF	ELECTRICAL REMARKS		
CO-1	11	ELECTRICAL RECEPTACLE	5-15R	48"			
CO-2	2	ELECTRICAL RECEPTACLE	5-15R	14"			







# BAR ELECTRICAL ROUGH-IN PLAN



# ELECTRICAL LECEND

	ELECTRICAL LEGEND
10	DUDLEY DECEDIACLE
	DUPLEX RECEPTACLE
	SINGLE RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	QUAD RECEPTACLE
	FLUSH FLOOR MOUNT RECEPTACLE
<b>①</b>	JUNCTION BOX - FLOOR/CLG MOUNTED
	JUNCTION BOX - WALL MOUNTED
J-UH	JUNCTION BOX - WALL MOUNTED (HORIZONTA
S	SWITCH
	DATA CONNECTION
F	MANUAL FIRE PULL STATION
CLG	DROP CORD MOUNTED FROM CEILING
©	CONDUIT STUB UP
F©	CONDUIT STUB OUT OF WALL
HT	DEFROST TIME CLOCK
	DISCONNECT
	LIGHT - RECTANGULAR
X	LIGHT - ROUND
	MOTOR
SNSR	SENSOR (EXHAUST HOOD, TEMP, CO2, LIGHT)
£777777777	PLUG MOLD

## **ELECTRICAL NOTES** (DIVISION 26)

**ELECTRIC PANEL** 

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

- A. FURNISH AND INSTALL CORD AND PLUG SET(S).
- B. FURNISH AND INSTALL DEVICE & COVER IN KEC (SECTION 114000) FURNISHED JUNCTION BOX.
- C. FURNISH AND INSTALL JUNCTION BOX(S), DEVICE(S), AND COVER(S) IN KEC (SECTION 114000) FURNISHED EQUIPMENT.
- D. CONNECT THRU DISPOSER CONTROL TO SOLENOID VALVE AND
- CONNECT FROM KEC (SECTION 114000) FURNISHED ICE MACHINE TO REMOTE CONDENSER AS REQ'D.
- CONNECT THRU KEC (SECTION 114000) FURNISHED AIR CURTAIN TO DOOR ACTIVATED MICROSWITCH.
- G. CONNECT THRU KEC (SECTION 114000) FURNISHED REMOTE CONTROL
- H. FURNISH AND INSTALL SWITCH. CONNECT TO LIGHTS FURNISHED BY KEC (SECTION 114000).
- CONNECT POWER SUPPLY TO KEC (SECTION 114000) FURNISHED LOAD CENTER. COUNTER SHALL BE PREWIRED AND SHIPPED IN SECTIONS.
- CONNECT BETWEEN SECTIONS. CONNECT TO KEC (SECTION 114000) FURNISHED JUNCTION BOX AT WALK-IN DOOR ASSEMBLY. LIGHT FIXTURE AT DOOR IS PREWIRED TO FACTORY MOUNTED LIGHT SWITCH. MOUNT ADDITIONAL KEC (SECTION 114000) FURNISHED LIGHTS WHERE INDICATED AND CONNECT TO SWITCH. CONDUIT SHALL BE INSTALLED ABOVE WALK-IN AND NOT
- WALK-IN SHALL BE NON-METALLIC OR PVC. CONNECT KEC (SECTION 114000) FURNISHED TEMPERATURE ALARM

EXPOSED ON INTERIOR UNLESS REQ'D. CONDUIT PENETRATING

- SYSTEM. COORDINATE WITH BUILDING SYSTEM(S). INSTALL KEC (SECTION 114000) FURNISHED DEFROST TIMER. CONNECT
- THRU TIMER TO EVAPORATOR COIL. M. CONNECT FROM KEC (SECTION 114000) FURNISHED CONDENSING UNIT,
- THRU DEFROST TIMER, TO EVAPORATOR COIL. N. FURNISH AND INSTALL NEMA RECEPTACLE WITH WEATHER COVER.
- O. CONNECT EXHAUST FAN THRU FAN CONTROL CONTACTS IN DISHWASHER.
- P. CONNECT TABLE LIMIT SWITCH TO DRY CONTACT ON KEC (SECTION 11400) FURNISHED DISH MACHINE.
- Q. CONNECT DRAIN WATER TEMPERING DEVICE PER MANUFACTURER'S RECOMMENDATIONS.
- . CONNECT TO EXHAUST HOOD LIGHT(S), CONTROL(S), AND EXHAUST FAN(S)/MAKE-UP AIR UNIT(S) AS REQ'D. INTERWIRE HOOD SECTIONS, MOTOR STARTER(S)/DRIVES, AND OVERLOAD PROTECTION AS REQ'D. INSTALL COMPONENTS AND SENSORS SHIPPED LOOSE. REFER TO
- SYSTEM SHOP DRAWING(S) FOR ADDITIONAL SCHEMATICS. CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICRO SWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL TO SHUNT TRIP BREAKER(S) FOR SHUT DOWN OF POWER TO ALL ELECTRICAL DEVICES UNDER HOOD(S) AND 18" OUTSIDE PERIMETER OF HOOD(S). CONNECT FROM MICRO SWITCH TO DIVISION 26 FURNISHED RELAY(S)
- OR SWITCHES FOR SHUT DOWN/CONTROL OF HOOD LIGHTS, MAKE-UP AIR FAN, AND FIRE ALARM SYSTEM. CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICRO SWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL THRU MANUAL RESET RELAY TO ELECTRIC GAS VALVE. PROVIDE
- CONTROL/INTERWIRING BETWEEN THE FIRE SUPPRESSION SYSTEM AND ASSOCIATED ELECTRICAL GAS SOLENOID VALVES, RESET RELAYS, AND PULL STATIONS AS REQ'D. FURNISH AND INSTALL CONCEALED CONDUIT AND RECESSED
- OCTAGONAL JUNCTION BOX IN WALL AT 42"-48" AFF FOR REMOTE MANUAL PULL STATION(S). COORDINATE LOCATION(S) WITH FIRE SUPPRESSION SYSTEM CONTRACTOR AND AUTHORITIES HAVING JURISDICTION PRIOR TO ROUGH-IN.
- PROVIDE 3/4" EMPTY CONDUIT AND JUNCTION BOX FOR DATA CONNECTION. VERIFY EXACT REQS AND TERMINATION POINTS PRIOR

W. PROVIDE DEVICE MOUNTED HORIZONTALLY IN BUILDING WALL.

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**REVISIONS** 

DATE NO. DESCRIPTION 07.12.2024 | 1 | MEP ROUGH-INS 07.29.2024 | 2 | PERMIT SET

PROJECT #: 06/27/2024 2024058 DRAWN BY: PPROVED BY: APR

> FOODSERVICE ELECTRICAL ROUGH-IN PLAN

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

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**REVISIONS** 

DATE NO. DESCRIPTION 07.12.2024 | 1 | MEP ROUGH-INS 07.29.2024 | 2 | PERMIT SET

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

NOTE: GENERAL CONTRACTOR AND/OR SUBDIVISIONS TO PROVIDE 3/4" WALL BACKING FOR WALL PROVIDE METAL BACKING OR OTHER ACCEPTABLE MATERIAL AT EXHAUST HOODS AND FIRE RATED SHALL BE CONCEALED BEHIND WALL FINISH. NO EXPOSED WALL BACKING SHALL BE ACCEPTED. IN THE EVENT THE KEC MUST REPAIR OR REPLACE THE PROVIDED BACKING, THE KEC WILL NOT BE

# BEVERAGE/REFRIGERATION LEGEND

REFRIGERATION LINE SET —R——R—

NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR (OR AS SPECIFIED OTHERWISE) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE PLAN(S). THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE THE EXACT BUILDING REQUIREMENTS FOR ALL NIC EQUIPMENT PRIOR TO CONSTRUCTION. A. BUILDING FLOOR BENEATH WALK-IN MUST BE LEVEL WITHIN PLUS OR MINUS 1/8".

**SPECIAL CONDITIONS NOTES** 

NON-COMBUSTIBLE WALL

SPECIAL CONDITIONS LEGEND

PROPOSED STRUCTURAL SUPPORT

WALL BLOCKING

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GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE X" DEEP FLOOR DEPRESSION FROM TOP OF FINISHED FLOOR FOR

WALK-IN WALLS. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE INSULATED FLOOR SLAB BENEATH WALK-IN.

GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE X" DEEP FLOOR DEPRESSION FROM FINISHED FLOOR FOR INSTALLATION OF FLOOR TROUGH BY PLUMBING CONTRACTOR (DIVISION 26).

GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE

PRESSURE TREATED WOOD THERMAL BARRIER CENTERED BENEATH

GENERAL CONTRACTOR TO BACK-FILL WITH GROUT. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL ROOF PAD FOR KEC (SECTION 114000) FURNISHED REFRIGERATION RACK.

GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL CONCRETE PAD FOR KEC (SECTION 114000) FURNISHED REFRIGERATION RACK/CONDENSING UNITS.

REFRIGERATION CONTRACTOR SHALL FURNISH AND COORDINATE LOCATION OF EQUIPMENT RAILS AND PIPE CURBS FOR ROOFTOP CONDENSING UNIT(S).

HVAC/MECHANICAL CONTRACTOR (DIVISION 23) SHALL INSTALL KEC (SECTION 114000) FURNISHED RAILS & ROOF CURBS FOR EXHAUST FAN(S) AND MAKE-UP AIR UNIT(S). KEC (SECTION 114000) SHALL FURNISH AND INSTALL RAILS AND ROOF

CURBS FOR EXHAUST FAN(S) AND MAKE-UP AIR UNIT(S). GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FLASH-IN RAILS AND ROOF GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE

STRUCTURAL REINFORCEMENT ABOVE CEILING AS REQ'D FOR KEC

(SECTION 114000) FURNISHED EQUIPMENT. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE MINIMUM VERTICAL

M. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE MINIMUM VERTICAL N. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE

WALL BLOCKING NOTES (DIVISION 6)

MINIMUM VERTICAL

MOUNTED EQUIPMENT. MATERIAL MUST MEET THE SIZE AND LOAD REQ'S OF THE SPECIFIED EQUIPMENT AND SHALL BE COMPLIANT WITH ALL LOCAL CODES, LAWS, AND REGULATIONS. WALLS/ASSEMBLIES AS REQ'D BY THE AUTHORITY HAVING JURISDICTION. ALL WALL BACKING LIABLE FOR ANY DELAYS OR ADDED COSTS.

BEVERAGE/REFRIGERATION CONDUIT RUN

**BULK COOKING OIL LINE SET** -OIL--OIL-

EC (DIV 26) TO RUN ALL CONDUIT

ON EXTERIOR OF WALK-IN

BEER LINE CONNECTION -

─( WB-1

FOODSERVICE SPECIAL CONDITIONS PLAN

120CV/1 PH POWER SUPPLY BY EC (DIV 26)

- PLASTIC CONDUIT THRU WALK-IN FILL WITH THERMAL MASTIC AFTER RUNNING WIRE BY EC (DIV 26)

ADDITIONAL LIGHT FIXTURES

AND INSTALLED BY EC (DIV 26) -

**WALK-IN FREEZER** 

SUPPLIED LOOSE BY KEC (SECTION

ONE (1) DOOR FRAME VAPOR-PROOF LIGHT FIXTURE INSTALLED AND WIRED TO SWITCH

FREEZER FLOOR PANEL BY KEC

(SECTION 114000) (NO QUARRY TILE)

FREEZER RAMP

SPACER (AS NEEDED)

"SEAL OFF" IN CONDUIT BY EC (DIV 26)

JUNCTION BOX

BY EC (DIV 26)

SWEEP GASKET

THRESHOLD (FREEZER)

HEATER WIRE (FREEZER)

1/4" = 1'-0"

NOTE:
BUILDING ACCESS IS REQ'D ABOVE WALK-INS

BY ARCH. TRADES FOR REFRIGERATION LINES

AND ELECTRICAL WIRING. FIRE SUPPRESSION SYSTEM CONTRACTOR SHALL BRING BUILDING

FIRE SPRINKLER THRU WALK-IN CEILING PANEL

THIS WALK-IN FREEZER IS PROVIDED WITH

A 4" THICK INSULATED FLOOR WITH A RAMP

AND IS TO BE INSTALLED ON TOP OF THE

IF THE FINISHED FLOOR MATERIAL (TILE

AND SETTING BED) DOES NOT CONTINUE

THEN THE WALK-IN DOOR WILL NEED TO

CLEARANCE. CONFIRM TILE AND SETTING

WALK-IN FREEZER ONLY IN 4" RAMP - TYP

UNDER THE WALK-IN FLOOR PANELS,

BE UNDERCUT TO ALLOW PROPER

BED THICKNESS.

CONCRETE

SLAB BY G.C

1 1/2" = 1'-0"

GC PROVIDED LEVEL FLOOR SURFACE.

DOOR AND FRAME BY

KEC (SECTION 114000)

BEER LINE ENTERS BUILDING

THRU WALL, THEN UP TO

CEILING AND CONTINUES TO

BAR. VERIFY WITH VENDOR

SODA LINE RUN

WITH PLUMBING

TO THE BAR -

UNDERSLAB

SHOP DRAWINGS

OVERHEAD AND

DOWN WALL TO

TO BEVERAGE

(WB-1)

WALL BLOCKING TO GO OVER

SODA LINE BELOW

PLUMBING TO BAR

AROUND TO SODA DISPENSERS /

SODA LINES AROUND BAR

1/4" = 1'-0"

CONNECT TO SODA GUNS

DIF WALL THEN

AND AROUND PASS-THRU

WB-1 STATION -

OVERHEAD AND

DOWN WALL TO

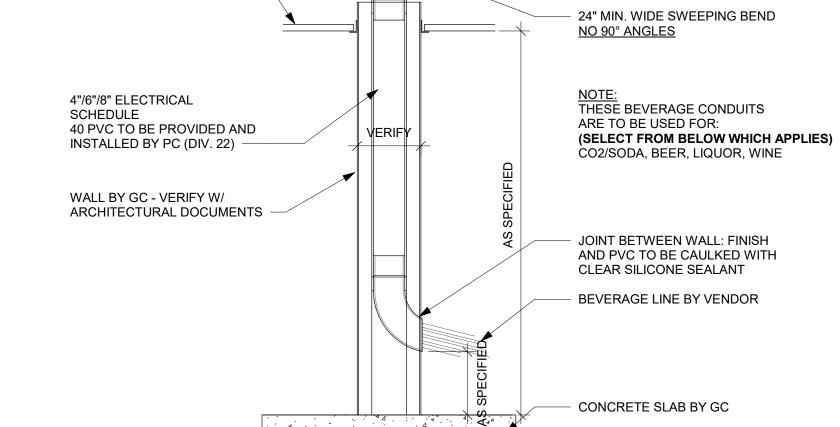
UNDERSLAB N -

PLUMBING

BEER LINES ACROSS CEILING

NOTE: THESE BEVERAGE CONDUITS CAULK AROUND SYRUP LINES W/ DAP BUTYL-FLEX CAULK ARE TO BE USED FOR: (SELECT FROM BELOW WHICH APPLIES) CO2/SODA, BEER, LIQUOR, WINE WATERTIGHT SEAL QUARRY TILE BEVERAGE LINES BY VENDOR -CONCRETE SLAB BY GC 24" MIN. WIDE SWEEPING BEND NO 90° ANGLES 4"/6"/8" ELECTRICAL SCHEDULE 40 PVC TO BE PROVIDED AND INSTALLED BY

BEVERAGE CONDUIT - OUT OF FLOOR - TYP 1/4" = 1'-0"



BEVERAGE CONDUIT - OUT OF WALL FROM CEILING- TYP

1/2" = 1'-0"

BEER LINE FROM BEER

AND CONNECT TO TAPS

**\\_\_\_\_\_** 

CEILING AND GRID BY GC -

SPECIAL CONDITIONS - BAR ROUGH-IN PLAN

COOLER THEN DOWN TO BAR

DRAWN BY:

FOODSERVICE

SPECIAL CONDITIONS

PLAN

PROJECT #:

2024058

PPROVED BY:

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CONNECT TO SODA GUNS

SODA LÍNES AROUND BAR

WB-15 | FINISHED FLOOR TO FINISHED CEILING

BEVERAGE CONDUIT STUB UP

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