# 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 **OBTAINING A BUILDING PERMIT.** 

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

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

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 EXISTING.

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.

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

14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FLOOR FINISH MATERIALS TO ENSURE THAT TRANSITIONS BETWEEN FLOORING MATERIALS WILL BE SMOOTH AND IN ACCORDANCE WITH THE DRAWINGS.

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

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 WORK, ETC.

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 REMAIN.

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.

21. 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.

24. 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.

26. 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 vendor.

# **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 SMOKE DETECTORS TO BE PROVIDED.

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'

CHAPTER II ACCESSIBILITY THE EXISTING BUILDING MEETS THE REQUIREMENTS FOR ACCESSIBLE ENTRIES. THE EXISTING PARKING SPACES MEET THE REQUIREMENTS 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 LOCATION NORTH

# **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

# MEP:

**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

0 A-000

WALL SECTION MARK	4-
ELEVATION MARKS	0 A-000
DETAIL REFERENCE MARK PLAN REFERENCE MARK	
REVISION MARK & CLOUD ROLLER SHADE	RS
WALL FINISH CALL OUT	PT2
FLOOR FINISH CALL OUT	СРТ
GLAZING MARK	$\langle A \rangle$
CEILING INFO	100 9'-6" ACT-2
ELEVATION DATUM	100'-0" T.O.STEEL
ROOM TITLE	CLASSROOM

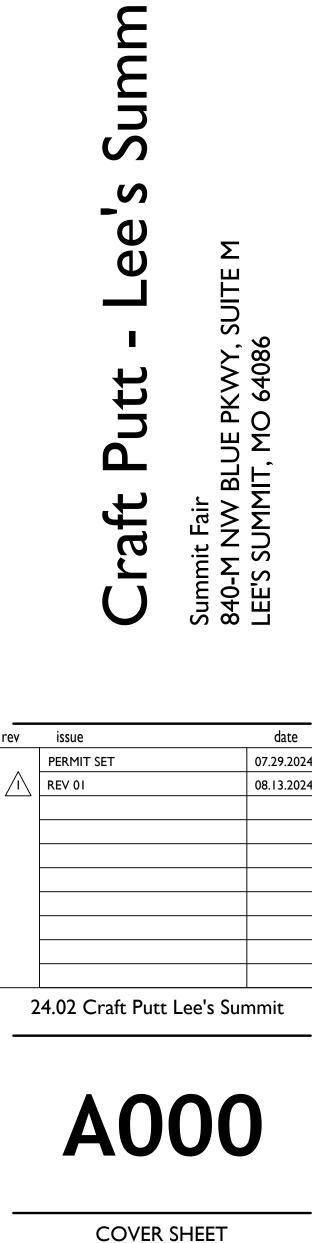
EMERGENCY BATTERY PACK F	
FIRE ALARM STROBE/COMBIN/ PROVIDE PER CODE	ATION SPEAKER, K
CONSTRUCTION NOTE (	3
DOOR MARK	
WINDOW MARK	Ŵ
WALL PARTITION TYPE	$\longrightarrow$
DUPLEX RECEPTACLE	$\ominus$
EXISTING DUPLEX RECEPTACI	.e ⊖= <sub>x</sub>
EXIT SIGN LOCATION	$\otimes$
LINE THRU DEVICE INDICATES ABOVE-COUNTER	s 🕀
TELEPHONE/DATA OUTLET	$\mathbf{V}$
EXISTING PARTITION	

<u>Sheet ind</u>	EX
ARCHITEC	TURAL:
A000	COVER SHEET, INDEX
A001	CODE PLAN
A002	PARTITION TYPES
AD100	DEMOLITION PLAN
AD150	DEMOLITION REFLECTED CEILING PLAN
A100	FLOOR PLAN
A101	ENLARGED FLOOR PLAN
A150	REFLECTED CEILING PLAN
A151	CEILING DETAILS
A200	ROOF PLAN
A300	EXTERIOR ELEVATIONS
A400	
A401	INTERIOR ELEVATIONS
A500	INTERIOR DETAILS
A501	
A600	FINISH PLAN
A601	
A700	SCHEDULES & ACCESSIBILITY
MEP:	
MEP000	MEP LEGENDS AND SYMBOLS
MEP001	MEP SPECIFICATIONS
MEP002	MEP SPECIFICATIONS
MEPIOI	MEP NEW WORK ROOF PLAN
DM100	MECHANICAL DEMOLITION PLAN
M100	MECHANICAL NEW WORK PLAN
M500	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
DEI00	ELECTRICAL DEMOLITION PLAN
DEL100	LIGHTING DEMOLITION PLAN
EP100	ELECTRICAL NEW WORK PLAN
EL100	LIGHTING NEW WORK PLAN
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM
DP100	PLUMBING DEMOLITION PLAN
P100	PLUMBING WASTE & VENT NEW WORK PLAN
P101	PLUMBING DOMESTIC WATER AND GAS NEW WORK PLAN
P500	PLUMBING DETAILS
P600	PLUMBING SCHEDULES
P601	PLUMBING SCHEDULES
P700	PLUMBING DOMESTIC WATER PIPING ISOMETRIC
P701	PLUMBING WASTE AND VENT PIPING ISOMETRIC
P702	PLUMBING NATURAL GAS PIPING ISOMETRIC
	FIRE PROTECTION NEW WORK PLAN
FP100	

FOOD SERVICE:

- QFI0I FOOD SERVICE EQUIPMENT PLAN
- FOOD SERVICE PLUMBING IN-SLAB ROUGH-IN PLAN QF201
- QF301 FOOD SERVICE ELECTRICAL ROUGH-IN PLAN
- FOOD SERVICE SPECIAL CONDITIONS PLAN OF401

-END OF INDEX-



CODE INFO

clockwork

423 Delaware St Ste 102

Kansas City MO 64105 www.clockwork-ad.com

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CHRISTIAN

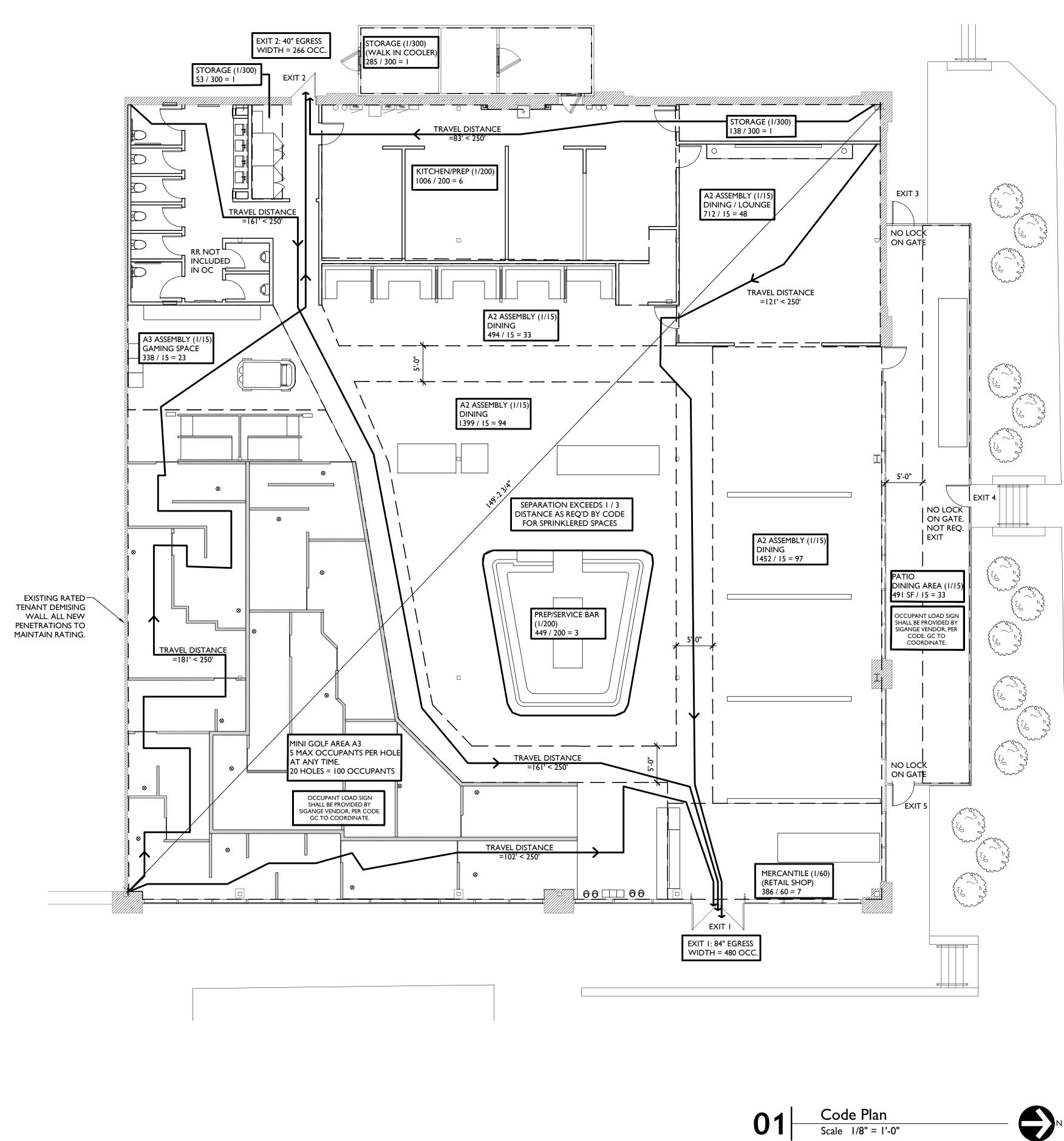
J. ARNOLD

NUMBER

A-2003027158

000

**1** 



PREP/SERVICE BAR (1/200) 449 / 200 = 3

KITCHEN/PREP (1/200) 1006 / 200 = 6

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

12 OCCUPAN

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) GAMING SPACE 338 / 15 = 23

A2 ASSEMBLY (1/15) DINING |452 / |5 = 97

402 OCCUPAN

A2 ASSEMBLY (1/15) DINING |399 / |5 = 94

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

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

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

33 OCCUPAN

(INCLUDI	NL OCCUPANTS NG SEASONAL C LE / 224 MALE	OUTDOOR PATIO	D)
<ul> <li>CALC</li> <li>SHO<sup>N</sup></li> <li>THE</li> </ul>	M FIXTURE COU CULATIONS PER 2 WN BELOW. OUTDOOR PATI HIN THESE CALC	2018 IBC TABLE : O SPACE HAS BE	
	CLOSETS = I PER 75 = I PER 75	REQUIRED 3 3	PROVIDED 4 (URINALS NOT 4 67% OF REQU

LAVATOR	IES	REQUIRED	PROVIDED
MALE	= I PER 200	2	2
FEMALE	= I PER 200	2	2
SERVICE S	INK IS PROVIDED	(EXISTING TO	REMAIN)

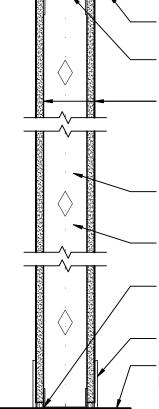
FREE WATER IS PROVIDED IN LIEU OF DRINKING FOUN

Code Plan Scale 1/8" = 1'-0" 01

	NOTE: Clean Indoor Air Ordinance:	clockwork 🖒
CUPANTS	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 burning cigarette enclosed in a red circle with a red bar across it) shall be 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 Act. Questions regarding the Clean Indoor Air Act may be directed to Development Services at (816) 969-1200.	423 Delaware St Ste 102 Kansas City MO 64105 www.clockwork-ad.com
	NOTE: 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 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) Post occupant load at 113 in the interior and 19 in the patio area.	CHRISTIAN J. ARNOLD
	NOTE: 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: 1. 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 shop drawings for the fire alarm system. THIS INFORMATION SHALL BE PROVIDED AS A DEFERRED SUBMITTAL	CHRISTIAN J. ARNOLD NUMBER A-2003027158
	NOTE: 2018 IFC 505.1- Address numbers. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. In Multi-tenant commercial building where tenants have multiple entrances located on different sides of the building , each door shall be addressed. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).	
JPANTS	NOTE: 2018 IFC 901.5- Installation acceptance testing. Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing. The fire code official shall be notified 48 hours before any required acceptance test. (Informational Purposes) Call (816)969-1300 to schedule a hood trip test and alarm test.	ummit
	NOTE: 2018 IFC 904.11.5- Portable fire extinguishers for commercial cooking equipment. Portable fire extinguishers shall be provided within a 30-foot (9144 mm) travel distance of commercial-type cooking equipment. Cooking equipment involving vegetable or animal oils and fats shall be protected by a Class K rated portable extinguisher. (Verified At Inspection) Mount K-Class extinguisher by manual pull.	α S C S C S C S C
CUPANTS	NOTE: 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) Provide 2 2A10BC fire extinguishers. GC SHALL COORD FULL / SEMI RECESSED FEC'S WITH ARCH TO SATISFY CODE.	<b>Jutt - Le</b> Je pkwy, suite Mo 64086
	NOTE: 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.	<b>Craft Pu</b> Summit Fair 840-M NW BLUE LEE'S SUMMIT, MO
RE LUDED DED ALS NOT TO EXCEED	NOTE: 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.	
	NOTE: 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)	rev         issue         date           PERMIT SET         07.29.2024           REV 01         08.13.2024
) OUNTAIN	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.	
		24.02 Craft Putt Lee's Summit



CODE PLAN



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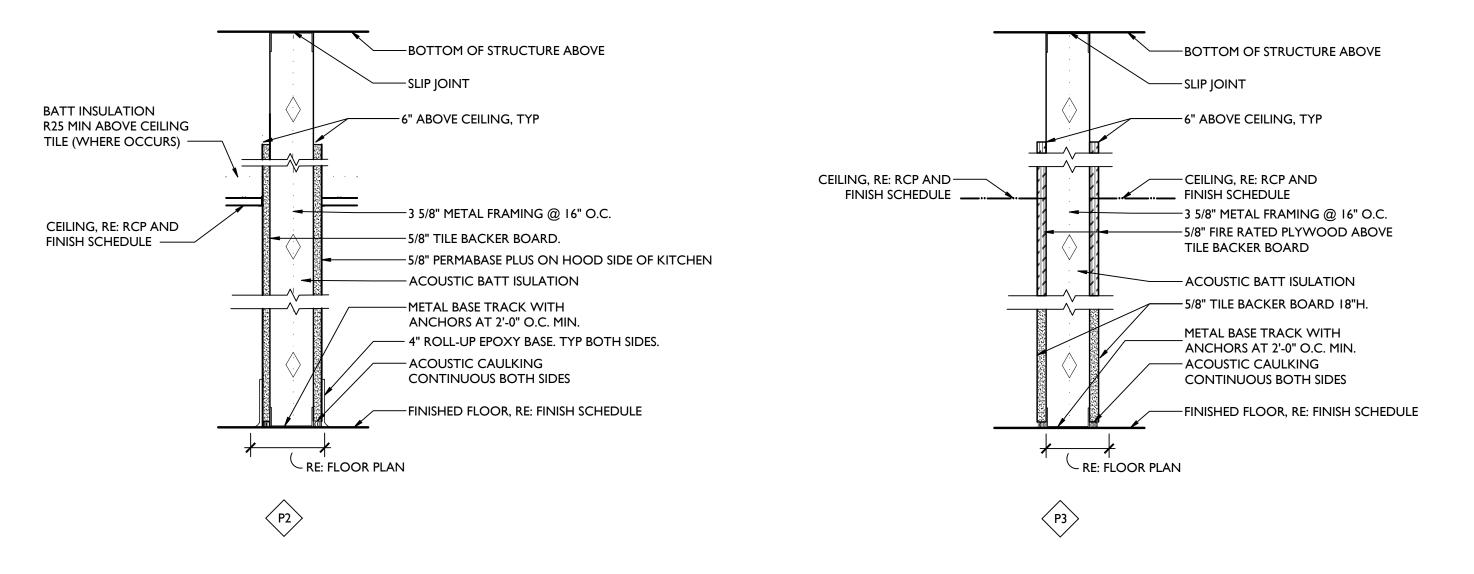
-BOTTOM OF STRUCTURE ABOVE - SLIP JOINT

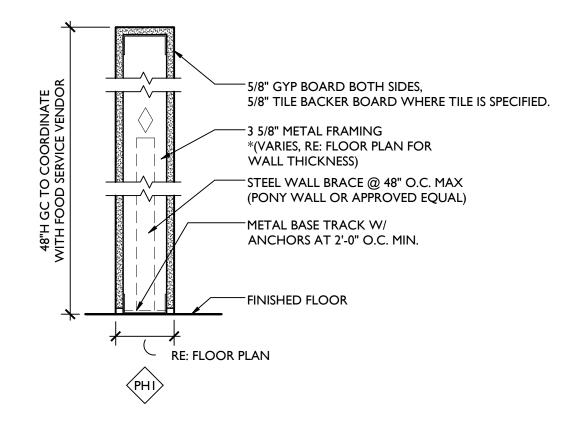
- 5/8" GYP BOARD BOTH SIDES, 5/8" TILE BACKER BOARD WHERE TILE IS SPECIFIED.

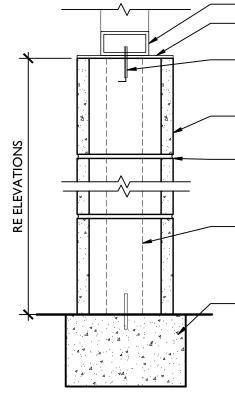
- ACOUSTIC BATT INSULATION

— 3 5/8" METAL STUDS @ 16" O.C.

-METAL BASE TRACK WITH ANCHORS AT 2'-0" O.C. MIN. -BASE, RE: FINISH SCHEDULE -FINISHED FLOOR, **RE: FINISH SCHEDULE** 







PH2

## WALL TYPE GENERAL NOTES

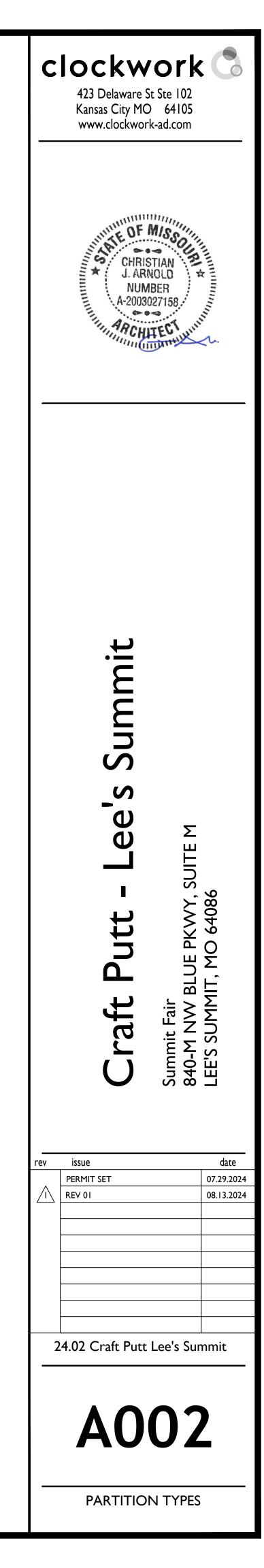
- PLYWOOD ABOVE BACKERBOARD.
- WALLS WHERE GYP BD WRAPS.

- 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

# ---- PAINTED 2" X 4" TUBE STEEL. RE ELEVATIONS.

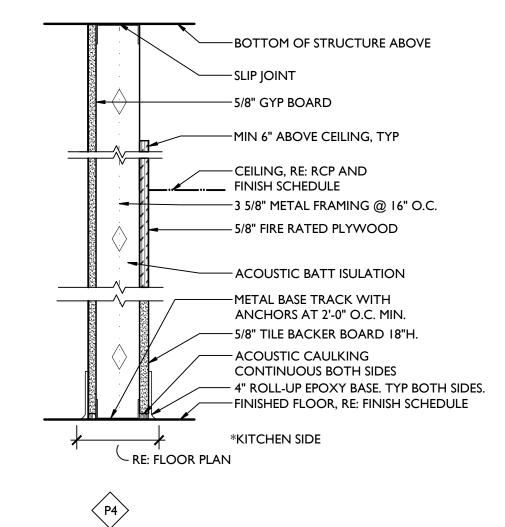
— PAINTED METAL CAP - SEALED WOOD CAP WD2 - SECURE ANCHOR BOLT INTO GROUTED BLOCK - SECURE ANCHOR BOLT INTO GROUTED BLOCK - 8X8X16" CMU BLOCK - 8X8X16" CMU BLOCK - GROUT TO BE COLOR MATCHED TO PT3 OR - GROUT TO BE COLOR MATCHED TO PT3 OR PAINTED PT3. COORDINATE WITH ARCHITECT. PAINTED PT3. COORDINATE WITH ARCHITECT. - REINFORCED DOWEL AND FULLY GROUTED REINFORCED DOWEL AND FULLY GROUTED EVERY 32"OC. EVERY 32"OC. \_\_\_\_EXISTING CONCRETE FLOORING ۵ ۵ ۵ ۵ ۵ ۹ \*\*\* FINAL DESIGN TO BE APPROVED BY TENANT

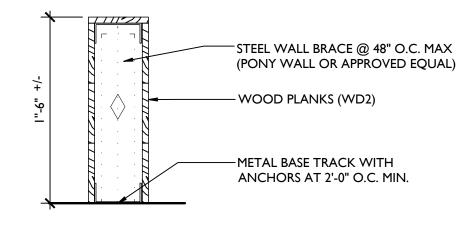
РНЗ



I. PROVIDE 3/4" FIRE-TREATED PLYWOOD TO DECK WHERE CALLED OUT IN PLAN. 2. FRAMING TO BE MTL. STUD FARMING.

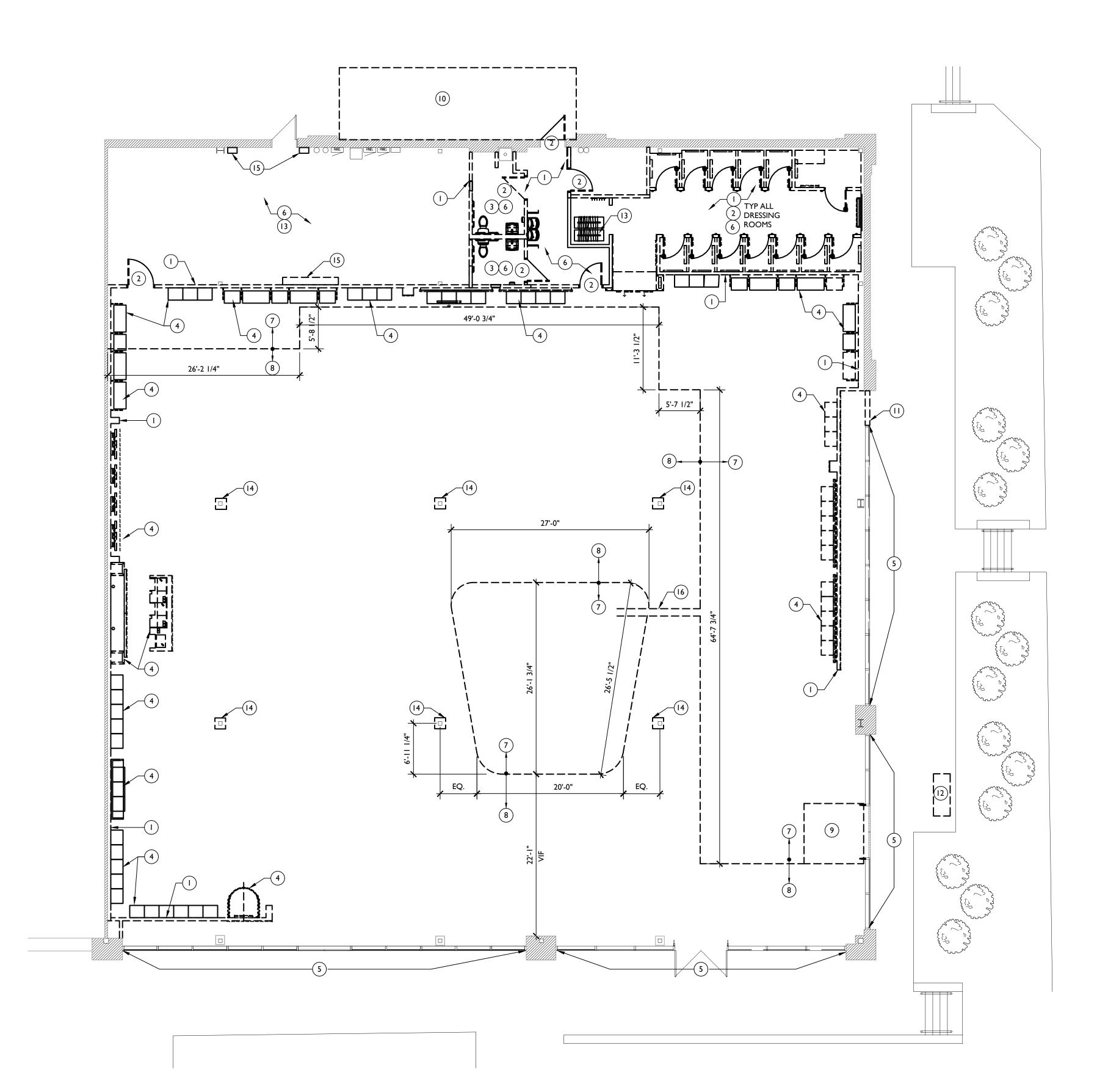
- 3. GYP BD TO BE HELD OFF FINISH FLOOR 1/2" MIN, TYPICAL.
- 4. ALL WALLS IN BOH SHALL RECEIVE 1/2" TILE BACKERBOARD AT 18"-24" AFF AND 1/2" FIRE-TREATED 5. METAL CORNER BEAD TO BE USED ON ALL OUTSIDE CORNERS OR TOP OF PARTIAL HEIGHT
- 6. ALL BLOCKING SHALL SPAN FULLY BETWEEN BOTH ADJACENT STUDS AT A 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).





\*\*\* FINAL DESIGN TO BE APPROVED BY TENANT

PH4



01

Demo Plan

Scale 1/8" = 1'-0"

## DEMOLITION PLAN GENERAL NOTES:

- ITEMS TO BE REMOVED ARE SHOWN WITH A DASHED (HIDDEN) LINE.
- ALL DIMENSIONS ARE + / -3. 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 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 NEW WORK.
- 7. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION BARRICADES AS REQUIRED FOR DEMOLITION AND NEW WORK. 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 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. 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.
- 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.
- 18. 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:

- I 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.
- (4) 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
- (10) 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.
- (16) 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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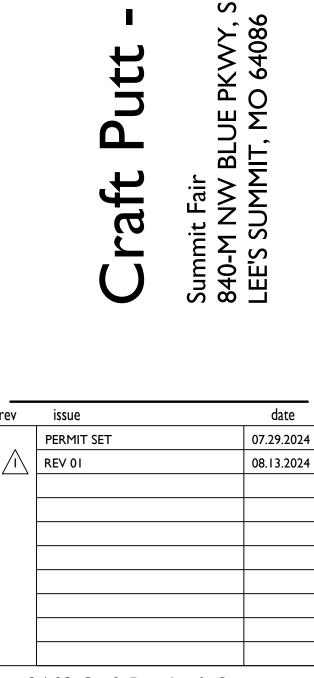
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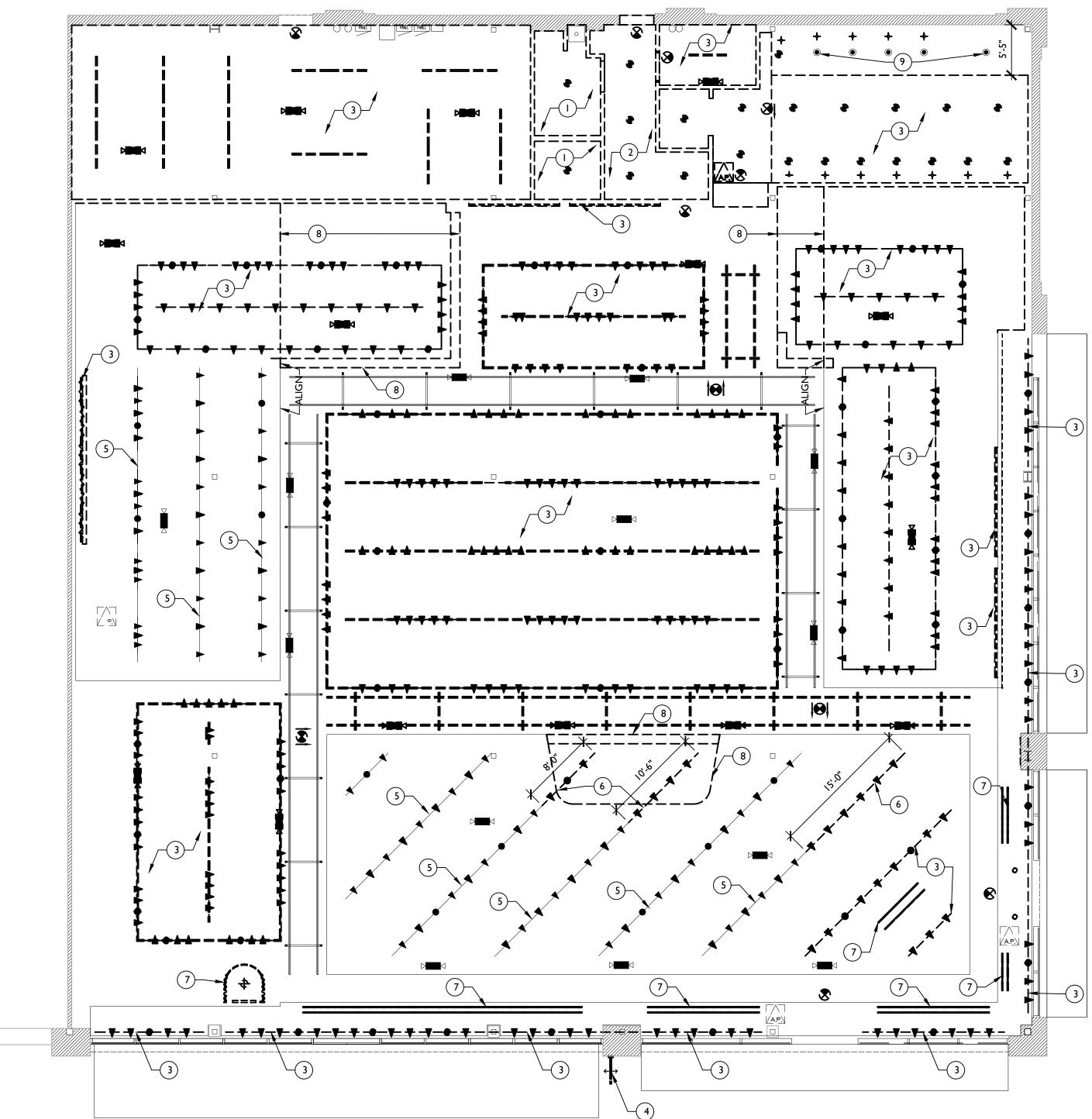
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DEMOLITION PLAN





## DEMOLITION REFLECTED CEILING PLAN GENERAL NOTES:

- I. ITEMS TO BE REMOVED ARE SHOWN WITH A DASHED (HIDDEN) LINE. 2. ALL DIMENSIONS ARE + / -
- 3. 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 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 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 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

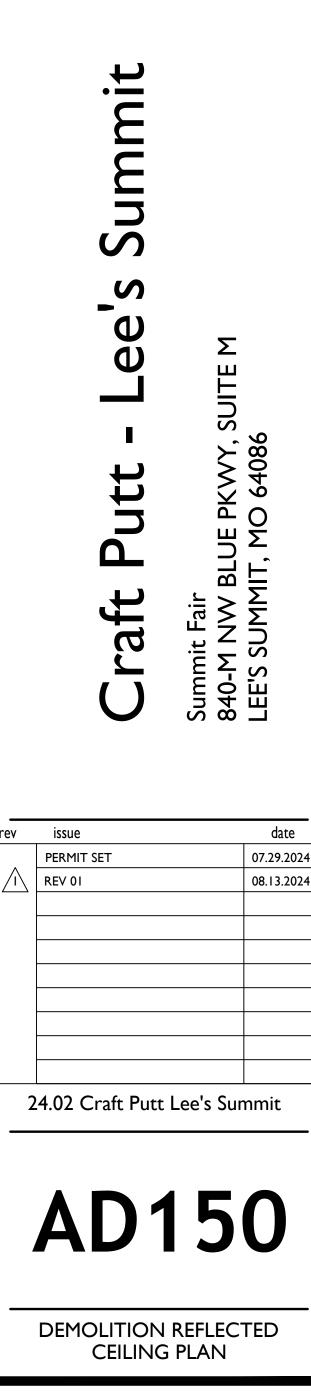
DEMOLITION REFLECTED CEILING PLAN KEYED NOTES:

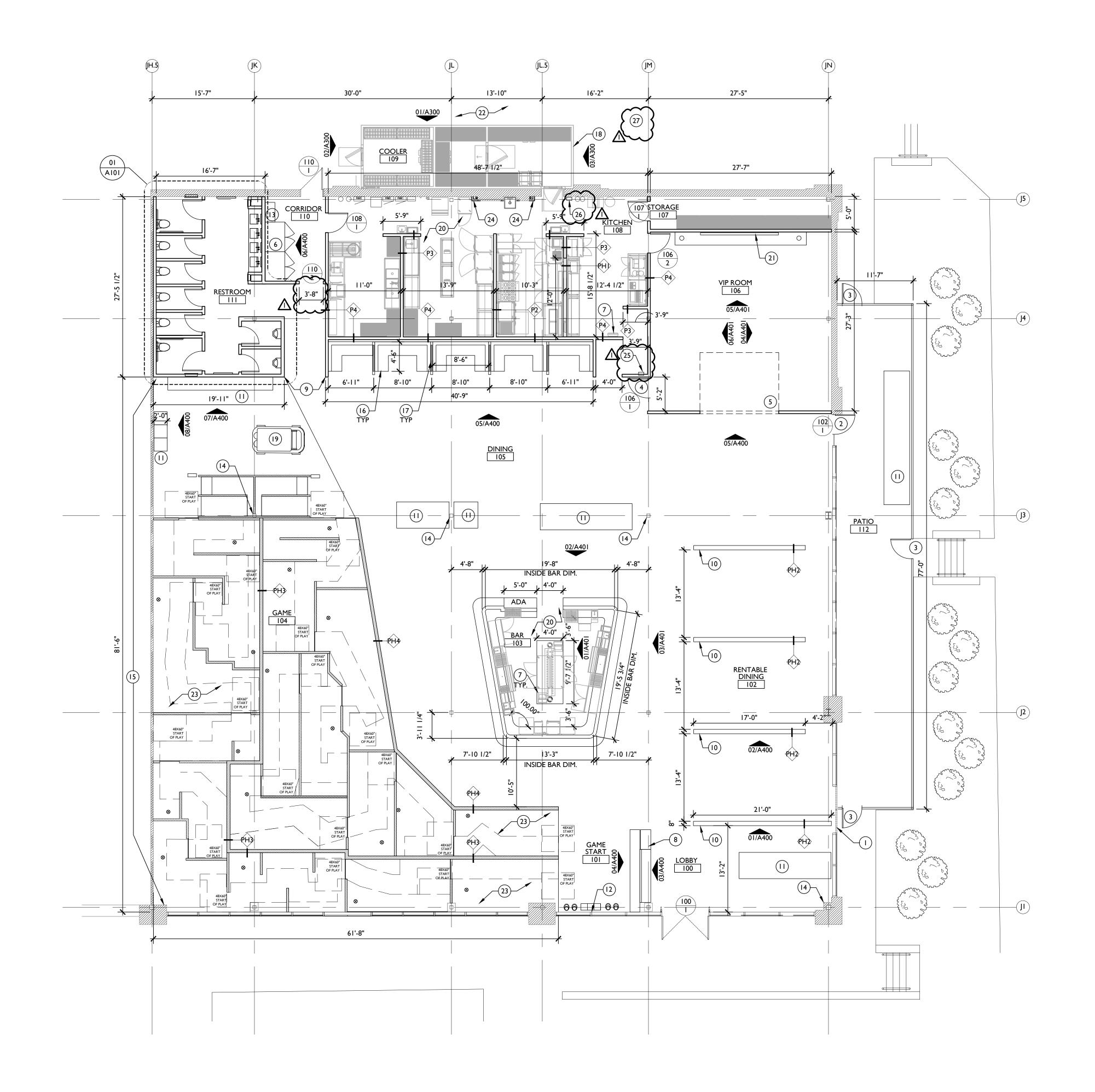
- (I) REMOVE ALL EXISTING CEILING GRID, ACT AND LIGHTING FIXTURES.
- (2) REMOVE ALL EXISTING GYP CEILING AND LIGHTING FIXTURES.
- (3) REMOVE AND DISPOSE OF ALL LIGHT FIXTURES.
- (4) REMOVE AND DISPOSE EXISTING EXTERIOR HANGING SIGN.
- REMOVE AND DISPOSE OF 50% OF EXISTING LIGHT HEADS ON TRACK. TRACK TO
- 5 REMAIN. 6 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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1 Floor Plan Scale 1/8" = 1'-0"

## FLOOR PLAN GENERAL NOTES:

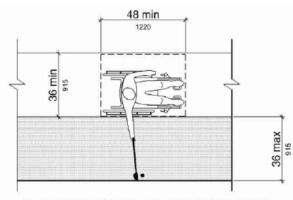
- ALL DIMENSIONS TO EXISTING ITEMS ARE + / DIMENSIONS FOR INTERIOR PARTITIONS ARE TO OUTSIDE FACE OF WALL FINISH.
   ALL PARTITIONS TO BE TYPE (A) LINESS NOTED OTHERWAYSE
- ALL PARTITIONS TO BE TYPE P UNLESS NOTED OTHERWISE.
   CONTRACTOR TO COORDINATE ALL MEP REQUIREMENTS.
- CONTRACTOR TO COORDINATE ALL THE REQUIRE TERMS.
   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.
- ALL STOREFRONT AND DOOR DIMENSIONS ARE TO FRAME EXTENTS. CONTRACTOR TO COORDINATE AND VERIFY ROUGH OPENINGS PRIOR TO ORDERING FRAMES AND DOORS.
   CONTRACTOR SHALL COORDINATE ALL CORE DRILL LOCATIONS WITH GAMES,
- CONTRACTOR SHALL COORDINATE ALL CORE DRILL LOCATIONS WITH GAMES, ELECTRICAL AND I.T. LAYOUTS. PROVIDE FLUSH POKE THROUGH DEVICE.
   ALL CARD READERS, SWITCHES, CONTROLS, ETC TO COMPLY WITH A.B.A.A.S. (ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD) REQUIREMENTS FOR MOUNTING UPICIDES.
- MOUNTING HEIGHTS. 11. CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE DONE AFTER BUSINESS HOURS. COORDINATE WITH LANDLORD AND TENANT.
- ALL CUSTOM ITEMS TO BE REVIEWED BY TENANT / ARCHITECT VIA SHOP DRAWINGS PRIOR TO FABRICATION.
   PROVIDE POWER & DATA FOR ALL POS LOCATIONS - COORD FINAL LOCATIONS WITH
- TENANT. 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 USED.
- 2 NEW STOREFRONT WINDOWS AND DOOR SYSTEMS SHALL BE THERMALLY BROKEN FRAMES WITH 1" INSULATED CLASS LINUTS TO IFCO PEOUS STORES
- BROKEN FRAMES WITH I" INSULATED GLASS UNITS TO IECC REQ'S. STOREFRONT SYSTEM IS TO MATCH ADJACENT STOREFRONT FINISHES AND MULLION SPACING.
- 3 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.
- (4) NEW BLACK ALUM STOREFRONT SYSTEM. GLASS DOOR WITH FULL HEIGHT SIDELITE. SEE ELEVATIONS/ DOOR SCHEDULE.
- 5 NEW 10'0" × 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.
- 7 POS SYSTEM. PROVIDE POWER AND DATA. COORDINATE FINAL SYSTEM WITH TENANT.
- 8 NEW CHECK-IN/RETAIL/LOCKER CASEWORK.
- (9) ENSURE WALLS ALIGN.
- 10 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.
- (I) 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 VENDING.
- (13) 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.
- 15 PATCH AND REPAIR DRYWALL FOR CONTINUOUS, SMOOTH & PLUMB FINISHED DRYWALL SURFACE IN PREPARATION FOR PAINTED MURAL, BY OTHERS.
- (16) BANQUETTE SEATING WITH LIGHT SHELF AND TABLES TO BE COORDINATED WITH FOOD AND BEV AND ARCHITECT.
- (17) CNC LASER CUT POWDER COATED METAL DIVIDERS. DIVIDER TO BE FIXED TO CEILING AND BANQUETTE.
- B 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.
- 20 REFER TO FOOD SERVICE DRAWINGS FOR EQUIPMENT LAYOUT AND SPECIFICATIONS. GC TO COORDINATE INSTALL WITH TRIMARK.
- 21) PERMANENT PROJECTION SCREEN. COORDINATE WITH AV VENDOR.
   22) EXISTING 48" SIDEWALK IS TO REMAIN PER LEES SUMMIT REQUIREMENTS. 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.
   23) PUTT PUTT GAME AREA. GAME TO BE MOUNTED DIRECTLY OVER EXISTING
- 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.

I 107.3.2 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 THE HOLE.



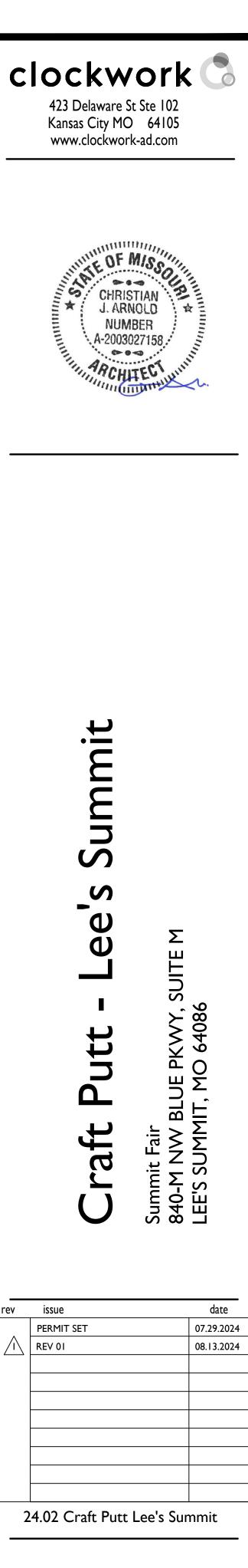
Note: Running Slope of Clear Floor or Ground Space Not Steeper Than 1:20

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.

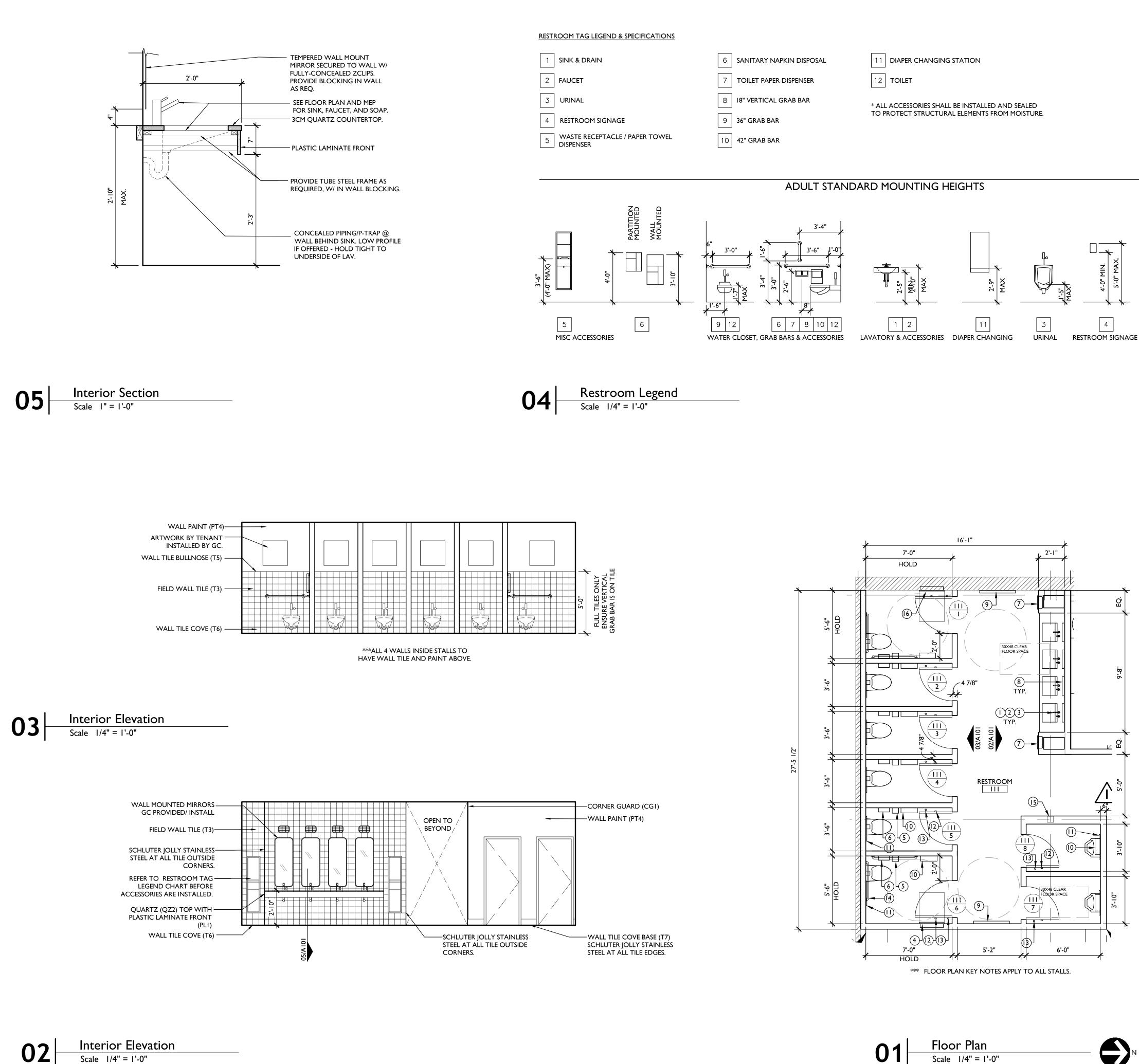
(25) SEMI-RECESSED WALL MOUNTED FIRE EXTINGUISHER. STAINLESS STEEL FINISH.
 (26) WALL MOUNTED CLASS K RATED PORTABLE FIRE EXTINGUISHER. EXTINGUISHER IS LOCATED 20' FROM FARTHEST POINT OF COOK LINE.

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.





FLOOR PLAN



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ENLARGED RESTROOM PLAN GENERAL NOTES:

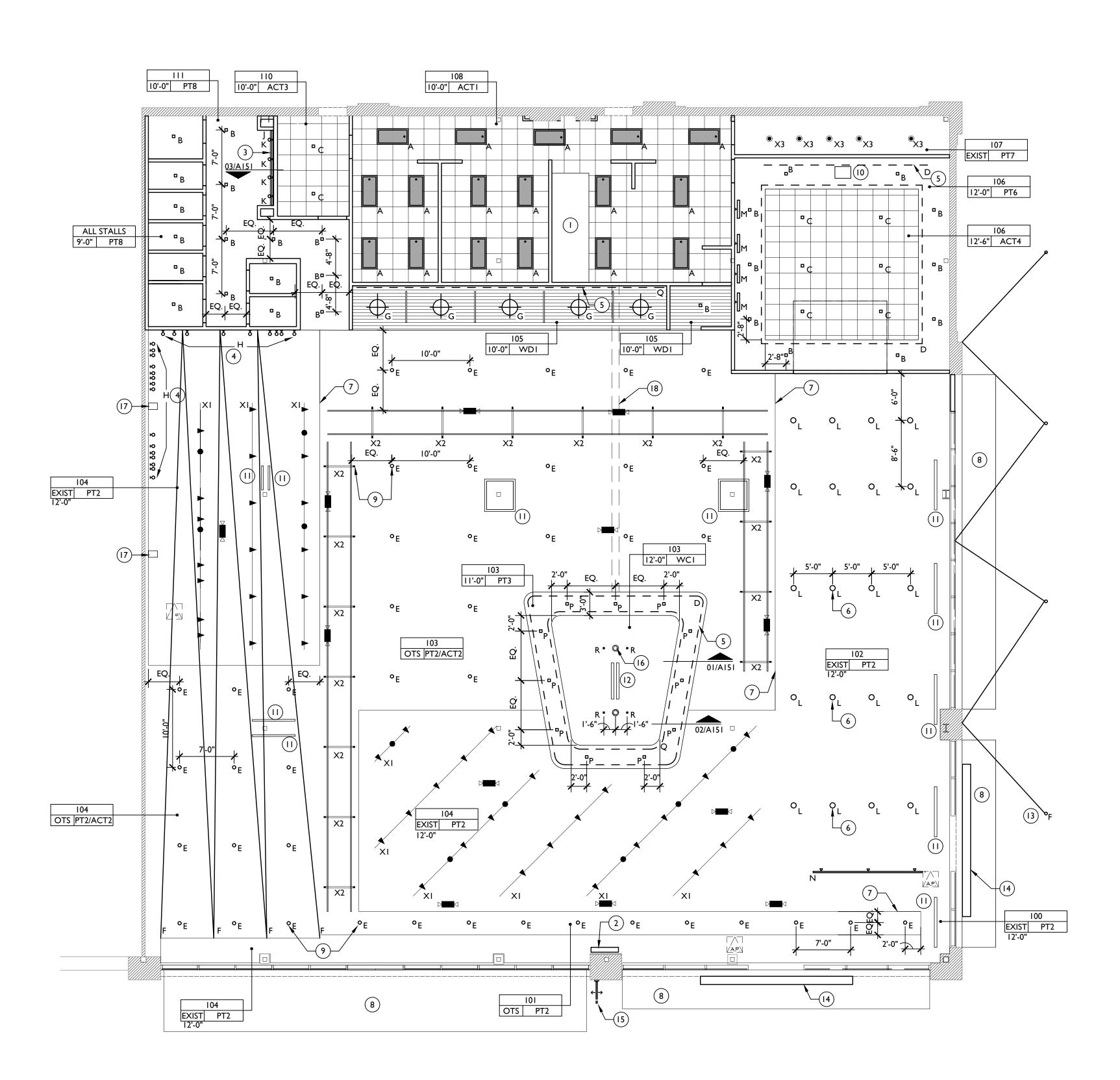
- I. ALL DIMENSIONS ITEMS ARE + / -
- 2. DIMENSIONS FOR INTERIOR PARTITIONS ARE TO OUTSIDE FACE OF WALL FINISH. 3. ALL SHUT-OFF VALVES SHALL BE INSTALLED TIGHT TO UNDERSIDE OF SINK BASIN,
- FULLY-CONCEALED. 4. PROVIDE DESIGNER P-TRAP. INSTALL TIGHT TO UNDERSIDE OF SINK BASIN. SUBMIT SPEC.
- FOR ARCHITECT APPROVAL 5. GC TO SUBMIT ALL PLUMBING FIXTURE + ACCESSORY SPECS. TO ARCHITECT FOR REVIEW
- & APPROVAL. NO EXCEPTIONS. 6. ALL CHANGES, DEVIATIONS, MODIFICATIONS, ADDITIONS OR DELETIONS FROM THE
- CONTRACT OF CONSTRUCTION OF APPROVED ARCHITECTURAL PLANS SHALL BE APPROVED BY THE TENANT 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. 7. SENSOR FLUSH VALVES FOR ALL TOILETS/URINALS
- 8. PROVIDE IN-WALL BLOCKING FOR ALL ADA COMPLIANT HANDRAILS TYP.
- 9. CONTRACTOR TO REFER TO MEP DRAWINGS FOR ALL MEP REQUIREMENTS. 10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL BLOCKING AS
- REQUIRED FOR ALL PLUMBING FIXTURES AND PLUMBING ACCESSORIES, TOILET/URINAL PARTITIONS, WALL MOUNT MIRRORS, ETC. II. PROVIDE BLOCKING IN WALL AS REQ. FOR WALL MOUNTED MIRRORS AND WALL MOUNTED VANITYS. GC TO PROVIDE POWER AS REQUIRED.

FLOOR PLAN KEY NOTES:

- UNDERMOUNT SINK: BADELOFT- UNDERMOUNT RAMP SINK UB-04-M,
- BLANCO BRILLIANT (WHITE GLOSS)
- 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.
- 3 <u>COUNTER MOUNT SOAP DISPENSER:</u> 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 <u>TOILET PAPER DISPENSER:</u> SURFACE MOUNTED TOILET TISSUE; BOBRICK, B-2888 (OR APPROVED EQ.)
- 6 <u>SANITARY NAPKIN DISPOSAL:</u> 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 <u>VANITY MIRRORS:</u> MODERN 18 IN. W X 48 IN. H RECTANGULAR ROUNDED CORNER METAL FRAMED WALL MOUNTED BATHROOM WALL MIRROR. MODEL # BK1848 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 (9) 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-295x16 (OR APPROVED EQ.). (10)SURFACE MOUNT DRINK SHELF ABOVE ALL URINALS. COORD. INSTALL HEIGHT IN-FIELD W/ ARCHITECT
- (II) FRAMED CANVAS ARTWORK 24"X24" ARTWORK TO HAVE SECURITY MOUNTING HARDWARE. COORDINATE WITH SIGN VENDOR.
- 12 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.
- (I3) <u>DOOR STOP:</u> MOCKETT DS6 I-3/16" CYLINDRICAL DOOR STOP. STAINLESS. (OR APPROVED EQ.) (I4) <u>GRAB BARS:</u> BOBRICK: B
- BOBRICK; B-6806 SERIES, 18", 36" AND 42" GRAB BARS. (OR APPROVED EQ.)
- (15) ENSURE COLUMN IS FULLY CONCEALED WITHIN WALL.
- (16) GC TO INVESTIGATE EXISTING WALL TO CONFIRM IF BABY CHANGING STATION CAN BE IN THIS LOCATION. ONLY ONE BABY STATION IS REQUIRED BY CODE.



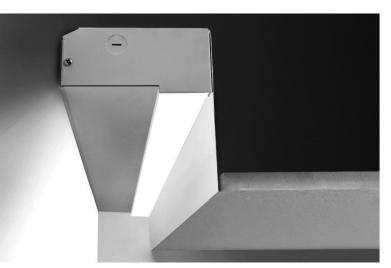
ENLARGED FLOOR PLAN

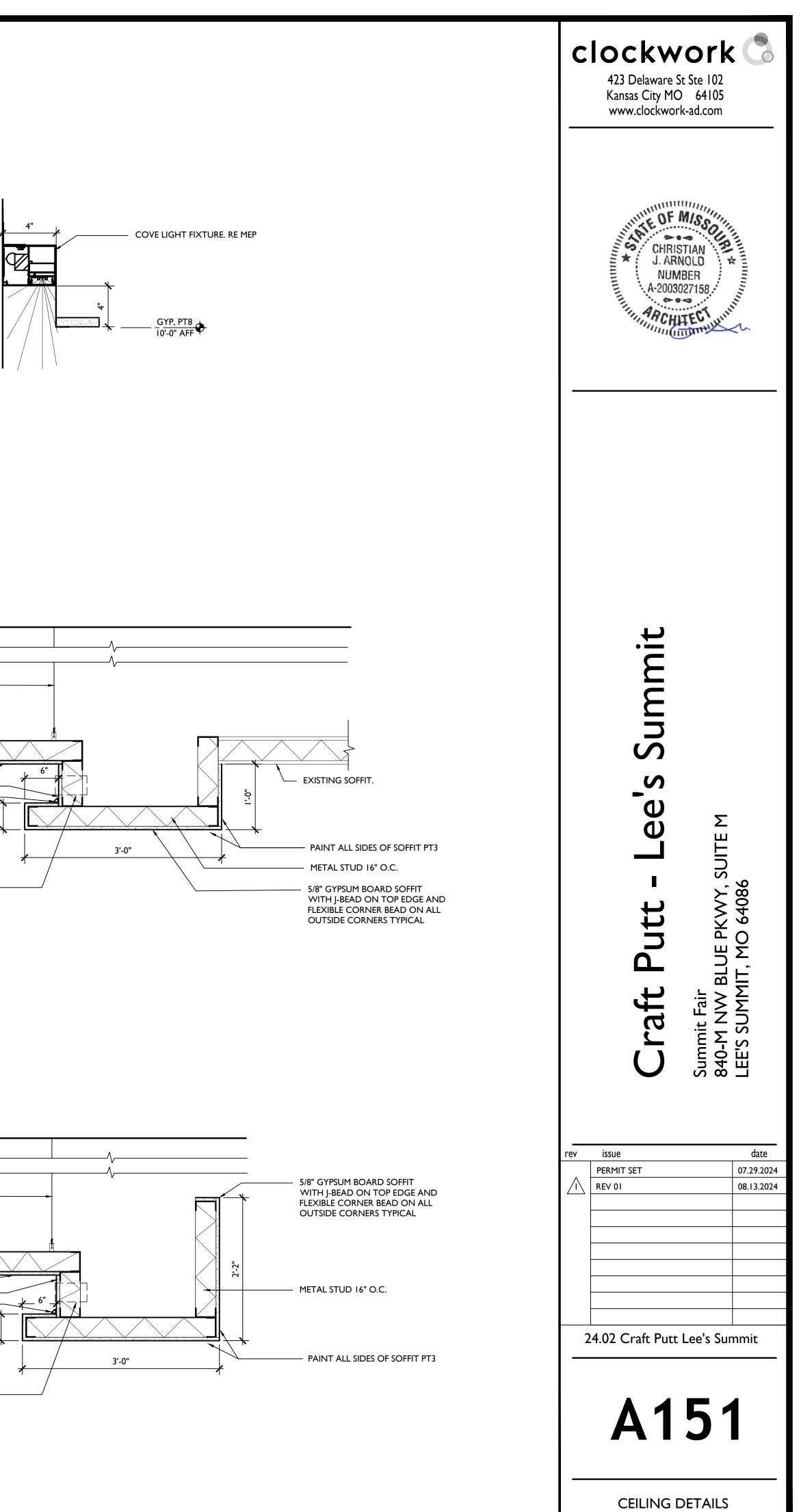


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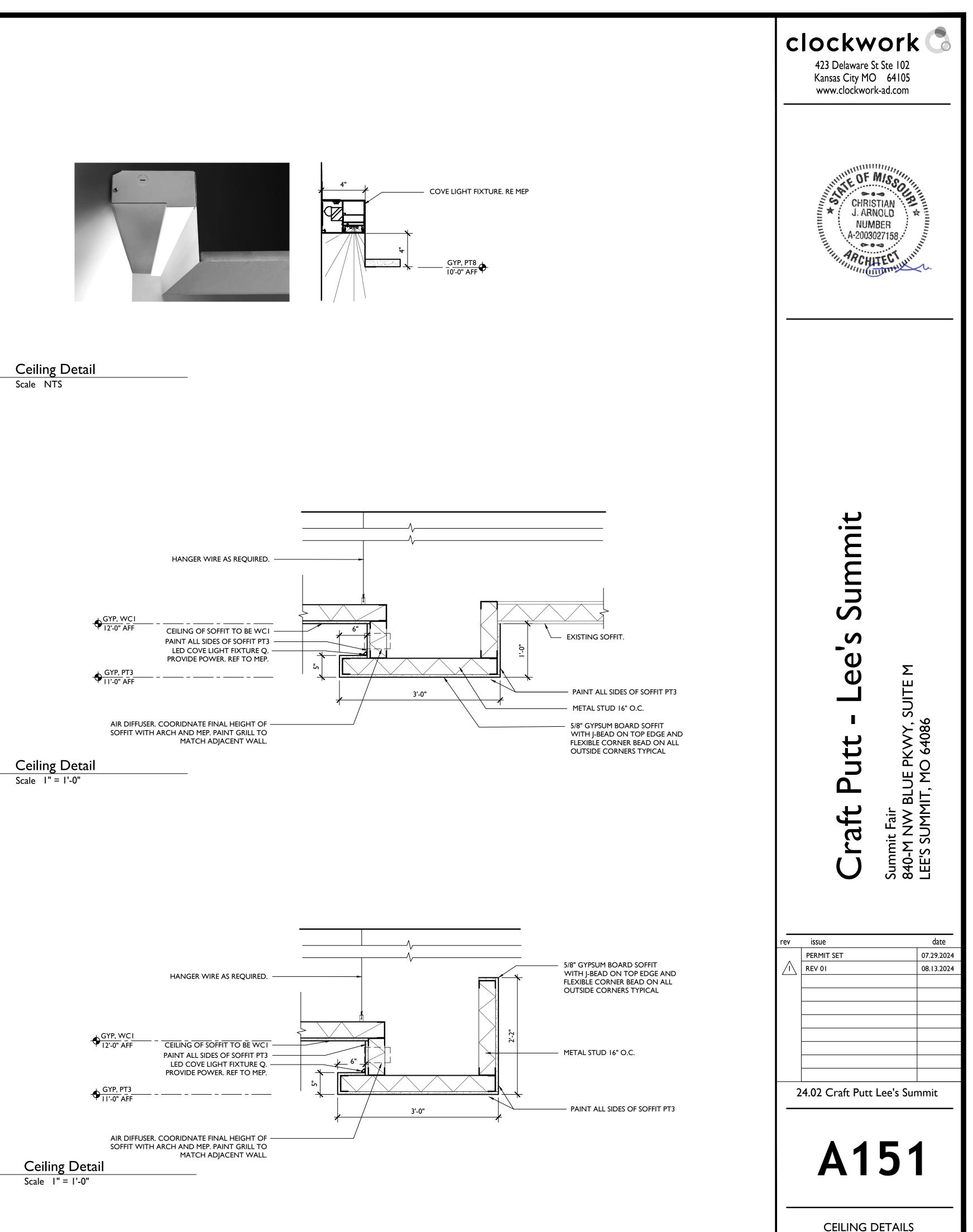


REFLECTED CEILING PLAN GENERAL NOTES: I. ALL DIMENSIONS TO EXISTING ITEMS ARE + / -	clockwork 🕝
<ol> <li>CONTRACTOR TO COORDINATE ALL MEP REQUIREMENTS.</li> <li>CONTRACTOR TO COORDINATE IT/AV/SECURITY SYSTEM WITH TENANTS VENDOR. PROVIDE CONDUIT AND PULL STRING FOR IT/AV/SECURITY WORK. COORDINATE WITH ELECTRICAL &amp; IT/AV/SECURITY.</li> </ol>	423 Delaware St Ste 102 Kansas City MO 64105 www.clockwork-ad.com
<ol> <li>CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT BACK TO ARCHITECT ANY CONFLICTS THAT MAY AFFECT DESIGN INTENTIONS SHOWN ON PROJECT DOCUMENTS.</li> </ol>	
<ol> <li>REFER TO MEP DRAWINGS FOR ALL EMERGENCY AND EXIT LIGHTING REQUIREMENTS.</li> <li>CONCEAL ALL CONDUIT TO LIGHT FIXTURES, EXIT DEVICES AND EMERGENCY</li> </ol>	
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	THE OF MISS
ARCHITECT U.N.O. 10. PROVIDE NEW CLEAR, EDGE LIT EXIT SIGNS U.N.O. REFER TO ELECTRICAL DRAWINGS FOR SPECIFICATION.	CHRISTIAN
II. CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE DONE AFTER BUSINESS HOURS. COORDINATE WITH LANDLORD AND TENANT.	J. ARNOLD NUMBER A-2003027158
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	A-2003027158
STRUCTURE. MATCH EXISTING SOFFITS. 14. PATCH AND PAINT ALL DAMAGED CEILINGS/SOFFITS FROM FIXTURE AND HVAC	ARCHITECT
REMOVAL. 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. <u>REFLECTED CEILING PLAN KEYED NOTES:</u>	
PROVIDE ALLOWANCE FOR STRUCTURAL SUPPORT/TIE-BACK AS REQUIRED AT HOODS, PER FINAL KITCHEN EQ PLANS AND EQ SPECS.	
<ul> <li>WALL MOUNTED DECORATIVE MARQUEE LETTERS. PROVIDE POWER AS REQUIRED.</li> <li>FINAL DESIGN BY SIGNAGE COMPANY. COORDINATED BY GC APPROVED BY</li> </ul>	
TENANT AND ARCHITECT. SIGN COMPANY RECOMMENDATION - MIDTOWN SIGNS dennis@midtownsigns.com	
<ul> <li>RECESSED COVE WITH LIGHT FIXTURE.</li> <li>FIXTURE H IS TO BE WALL MOUNTED WITH EXPOSED CONDUIT. RE ELEVATIONS FOR LAYOUT.</li> </ul>	
<ul> <li>(1) HATORE HIS TO BE WALL MOONTED WITH EXPOSED CONDON: RE ELEVATIONS FOR LATOUT.</li> <li>(5) LED TAPE LIGHT IS BELOW IN CASEWORK.</li> </ul>	
6 FIXTURES TO BE CENTERED BETWEEN PARTIAL HEIGHT WALLS.	
NEW SOFFIT TO ALIGN WITH EXISTING SOFFIT. RETURN SIDE FACE TO DECK TO MATCH ADJACENT SIDEWALL.	
<ul> <li>8 EXISTING EXTERIOR AWNING TO REMAIN.</li> <li>9 FIXTURES TO ALIGN.</li> </ul>	
<ul> <li>CEILING MOUNTED ULTRA SHORT THROW PROJECTOR. FINAL SPECIFICATION</li> <li>SHOULD BE COORDINATED WITH AN AV CONSULTANT. PROJECTOR TO BE BLACK.</li> </ul>	
<ul> <li>CEILING AND COLUMN MOUNTED TVS. GC TO PROVIDE BLOCKING. ALL EXPOSED</li> <li>TV SUPPORTS TO BE BLACK. COORD SUPPORT BRACKETS WITH TENANT &amp; ARCH.</li> </ul>	L L
<ul> <li>CEILING MOUNTED TAP SYSTEM AND CEILING MOUNTED TV ON ANGLED BRACKETS,</li> <li>PROVIDE POWER / DATA / CABLE PER MEP. GC TO COORDINATE WITH F&amp;B.</li> </ul>	<b>. .</b>
(13) EXTERIOR LIGHTING INTEGRATED INTO NEW FENCE SYSTEM.	
EXTERIOR SIGNAGE "CRAFT PUTT" FINAL SIGN TO BE APPROVED BY OWNER/TENANT. DESIGN INTENT; FREE STANDING LETTER SIMILAR TO DICKS SPORTING GOOD AT SUMMIT FAIR. SIGN TO HAVE POWER. GC TO COORDINATE WITH SIGN VENDOR.	
IS NEW EXTERIOR SIGNAGE TO MATCH SUMMIT FAIR STANDARDS. FINAL SIGN TO BE APPROVED BY TENANT.	S l
(16) BEER LINE WILL RUN FROM EXTERIOR COOLER ABOVE THE CEILING AND INTO BEER TAP SYSTEM. GC TO COORDINATE WITH F&B ON INSTALL.	
<ul> <li>PATCH AND FILL SOFFIT WHERE PARTITION WAS REMOVED.</li> <li>WHERE VISIBLE AT THE FOH - CONCEAL BEER-LINES IN CONDUIT - PAINT PT2.</li> </ul>	
(18) WHERE VISIBLE AT THE FOR - CONCEAL BEEK-LINES IN CONDUIT - PAINT FT2. COORDINATE HANGER DETAILS WITH TAP PROVIDER AND ARCH.	ΔΣ
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.	<b>1</b> ,
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 SPEC: NORA LIGHTING, NYLM COLOR: BLACK OR APPROVED EQ.	aft air UMMIT
F INDOOR/OUTDOOR STRING LIGHTS SPEC: SUNTHIN 48FT STRING LIGHTS, COLOR: BLACK. OR APPROVED EQ.	UMP R Hair
G DECORATIVE PENDANT - VISO, GLOBO PENDANT, LED, WHITE, LARGE, 19.7"	CDSummit Summit B40-M P LEE'S SL
H DECORATIVE 7" W WALL SCONCE - RE ELEVATIONS FOR QUANTITY SPEC: ACCESS LIGHTING; NAUTICUS SINGLE LIGHT LED; 20294-SAT/FST	Summit 840-M LEE'S S
J COVE LIGHT 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	rev issue date PERMIT SET 07.29.2024
M DECORATIVE WALL SCONCE - CERNO, CERNO ROUND PROFILE LED ART LIGHT,24", GOLD, STANDARD DIRECT MOUNT, HARDWIRED	I         REV 01         08.13.2024
N BASIS OF DESIGN: TRACK LIGHTING, COLOR: BLACK	
P 4"x4" LED SQUARE CAN LIGHT SPEC: LITHONIA LIGHTING - LDN4SQ, COLOR: WHITE. OR APPROVED EQ.	
Q COVE LIGHT 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.	24.02 Craft Putt Lee's Summit
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.         *NOTE-	<b>A150</b>
<ul> <li>ALL LAMPS SHALL BE 3500K COLOR TEMPERATURE</li> <li>ALL FIXTURES TO BE ON DIMMERS.</li> </ul>	
<ul> <li>CONTRACTOR TO SUBMIT CUTSHEETS FOR ALL FIXTURES FOR ARCHITECT APPROVAL PRIOR TO INSTALLATION.</li> <li>ALL DECORATIVE SIGNAGE TO BE PROVIDED BY TENANT/SIGNAGE VENDOR. GC TO</li> </ul>	REFLECTED CEILING PLAN
COORDINATE.	

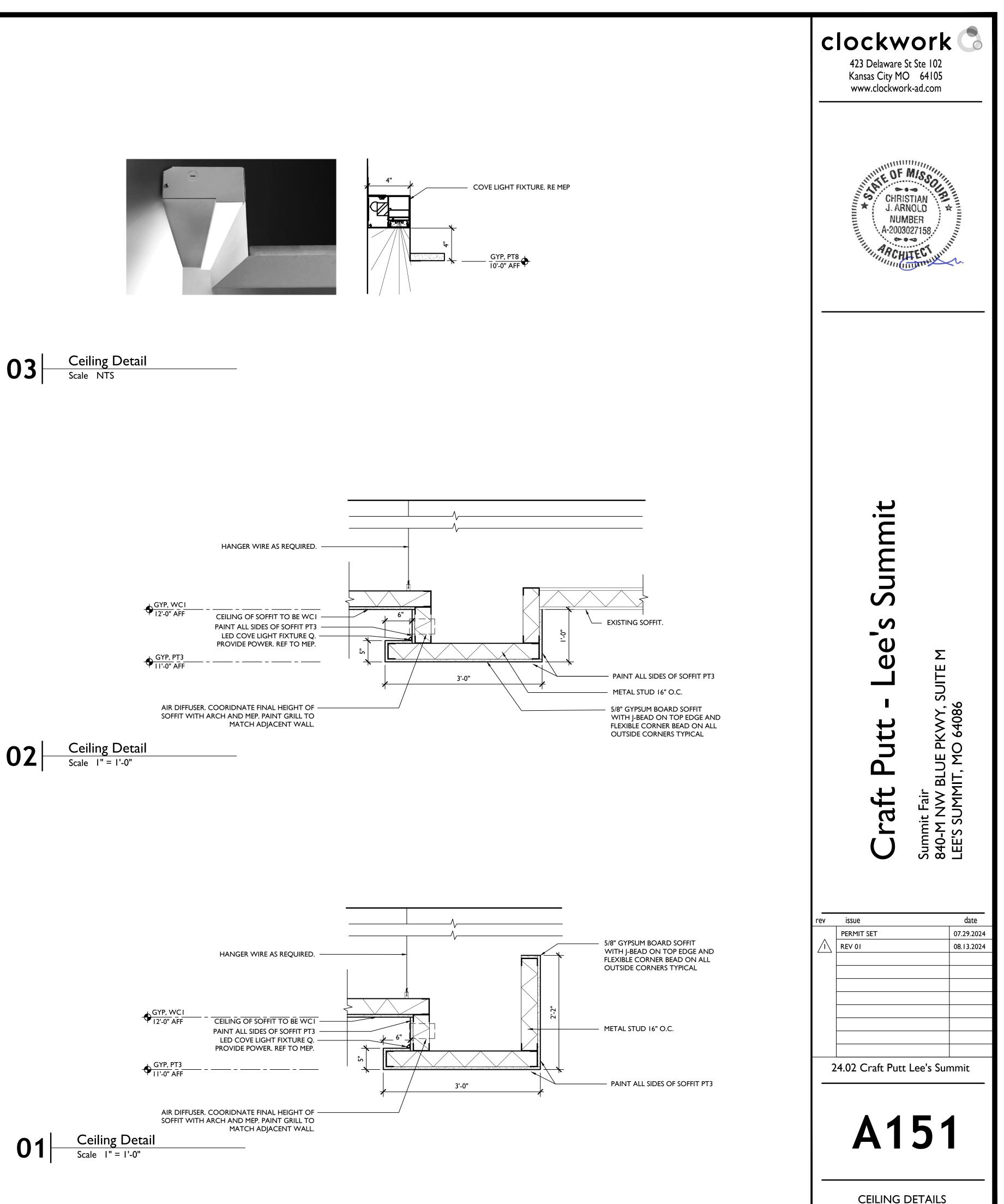


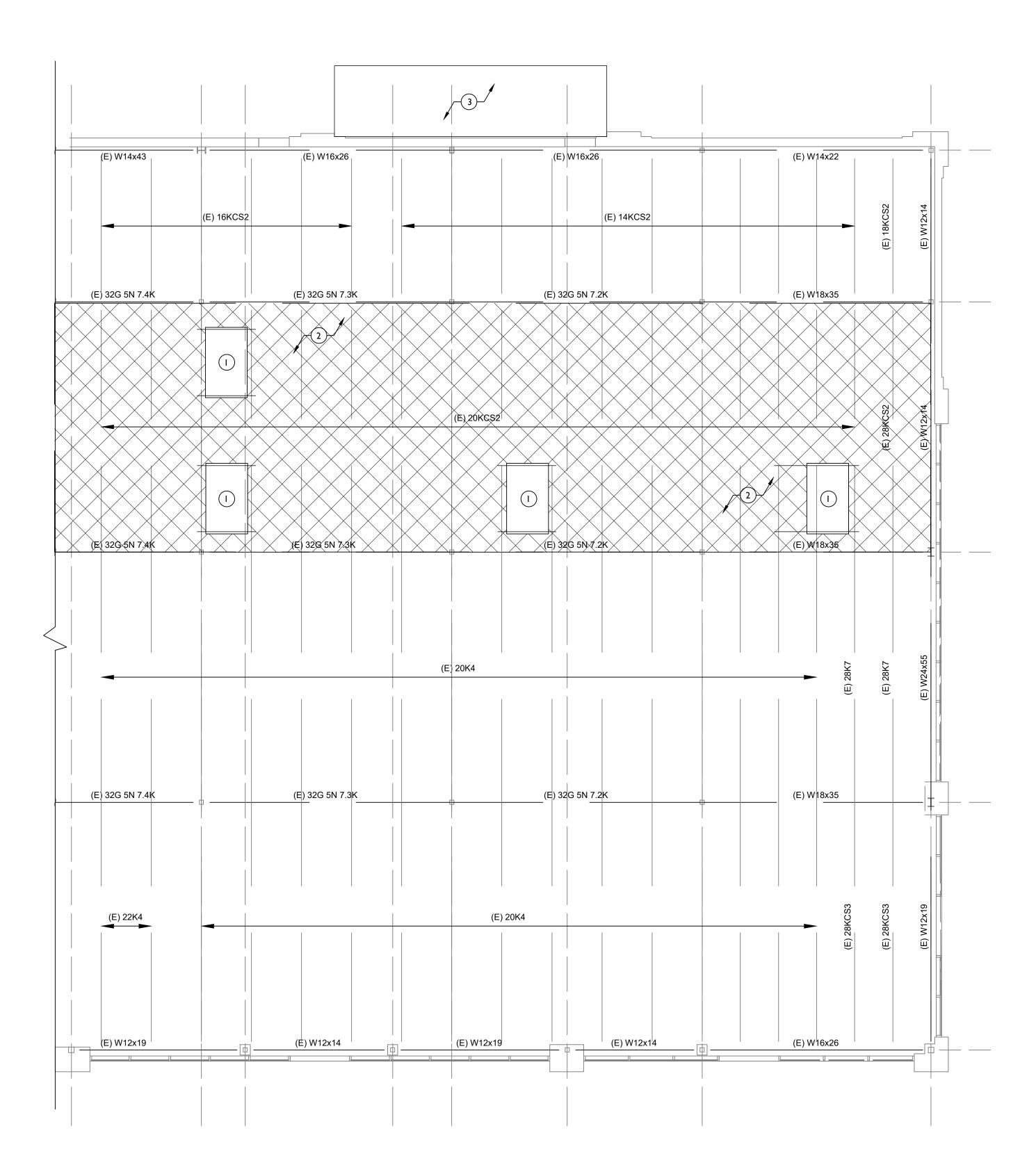












Roof Plan Scale 1/8" = 1'-0"

01



## FLOOR PLAN GENERAL NOTES:

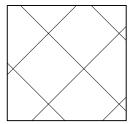
- I. EXISTING ROOF CONSTRUCTION IS I-1/2" MTL DECK WELDED TO SUPPORT FRAME.
- COORD ALL NEW ROOF PENETRATIONS WITH ARCH AND MEP.
   INSTALL ALL EQUIPMENT, CURBS, PIPE PENETRATIONS PER MANUFACTURER DETAILS.
- 4. PATCH AND REPAIR EXISTING TPO ROOFING AS REQUIRED AT NEW PENETRATIONS

## 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.

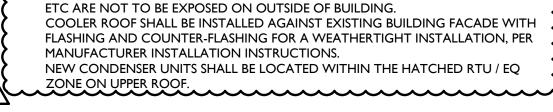
## <u>RTU / EQ ZONE</u>



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:

- I 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 UNITS SHALL BE LOCATED WITHIN THE HATCHED RTU / EQ ZONE.
   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, STC ADD NOT TO DE CONDECTED ON UNITING OF DUIT DING

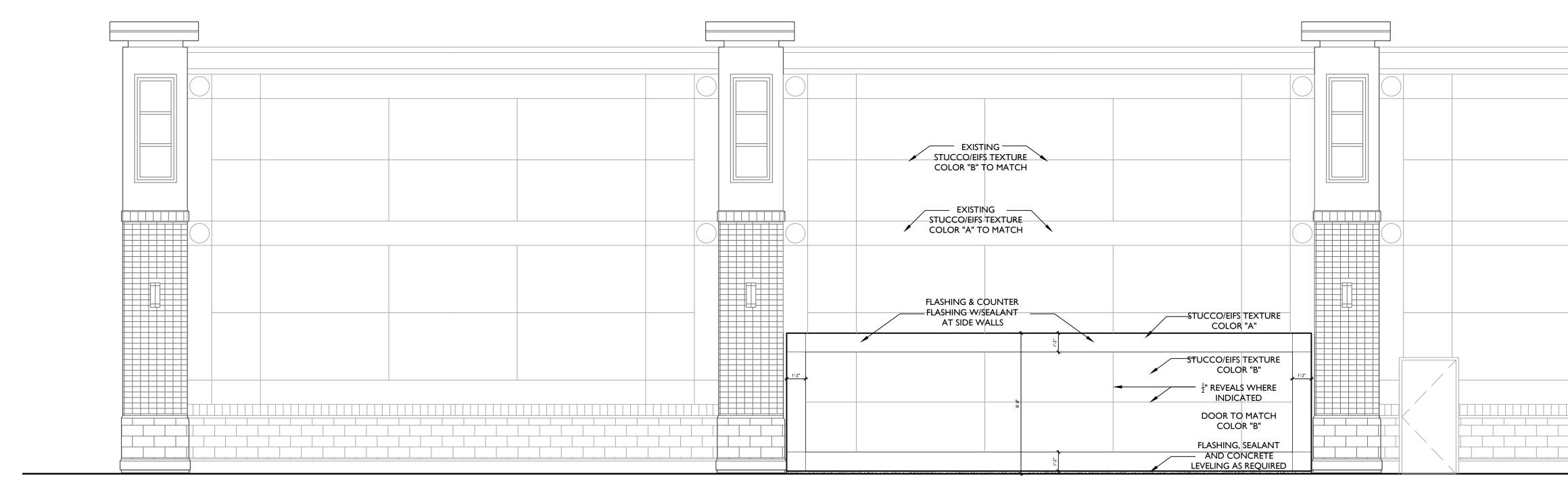


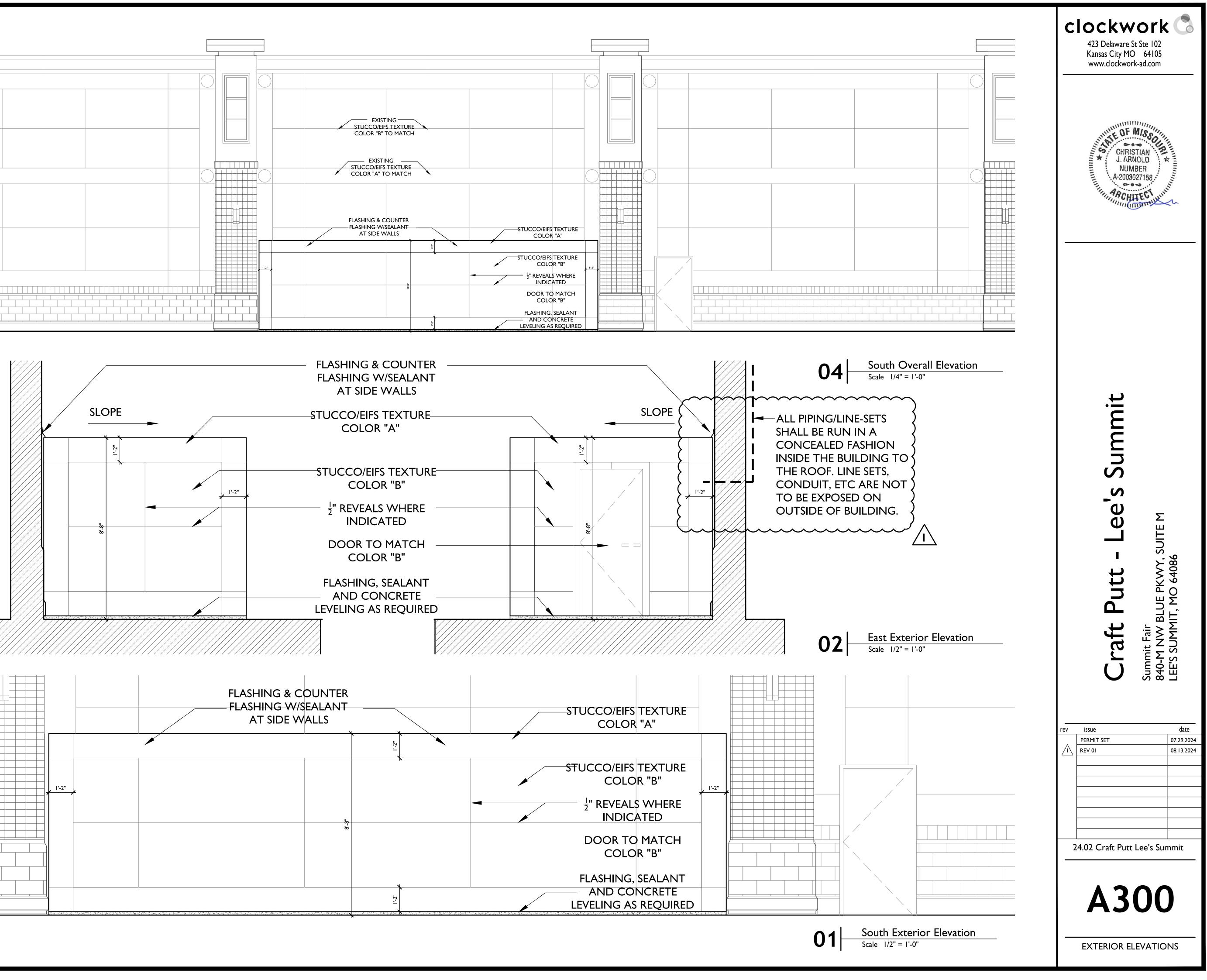


clockwork

423 Delaware St Ste 102

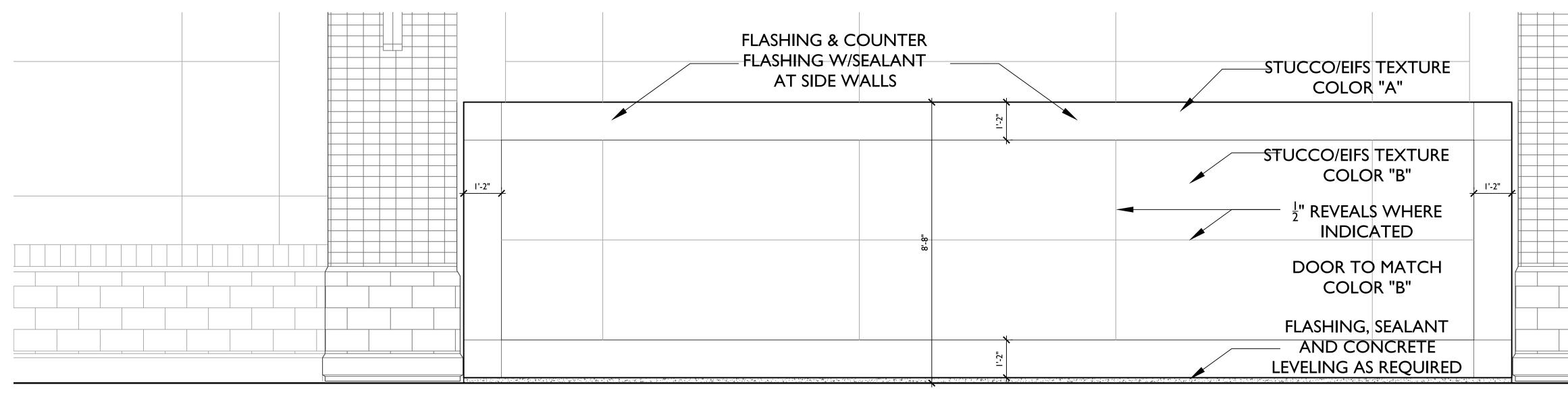
Kansas City MO 64105 www.clockwork-ad.com

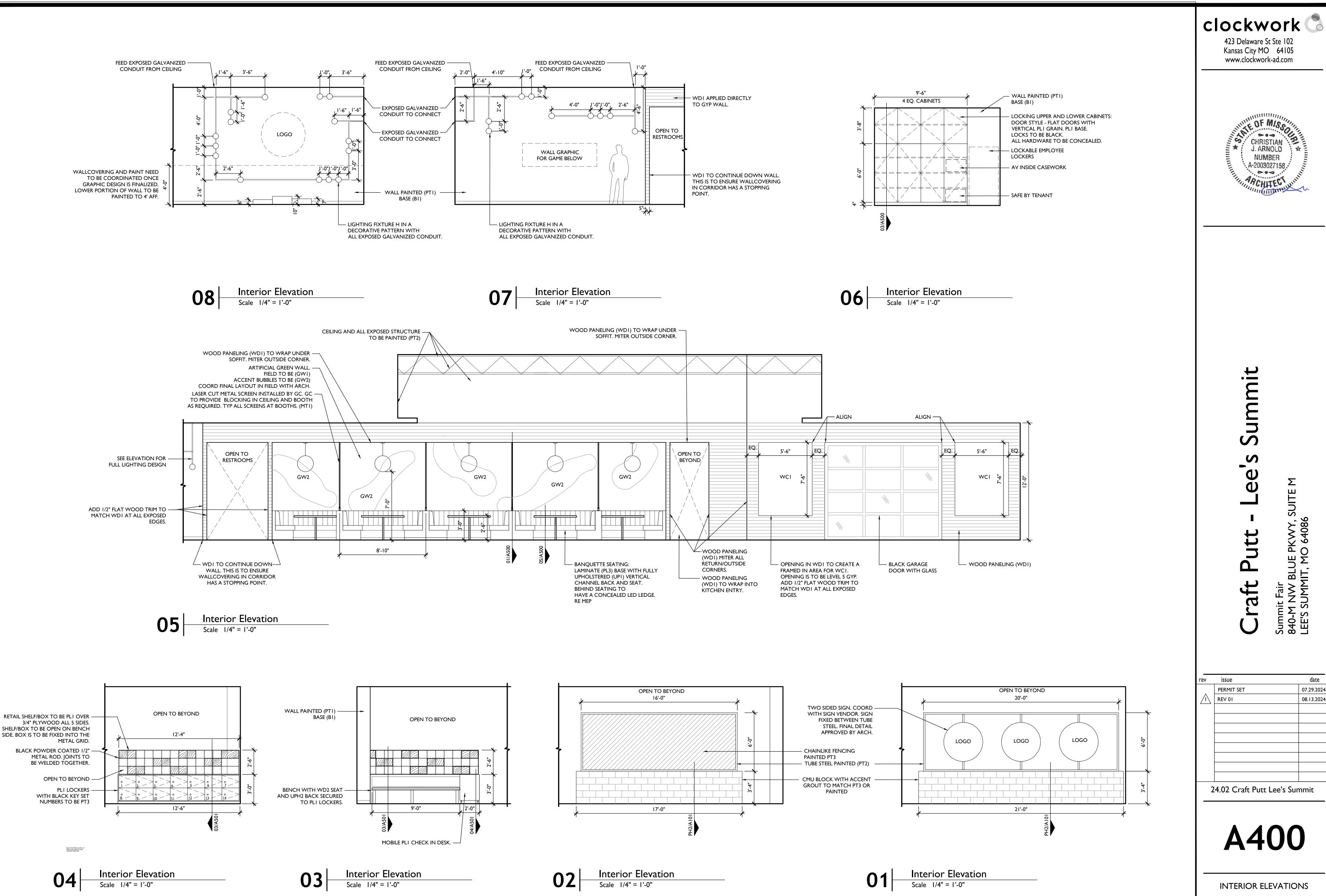




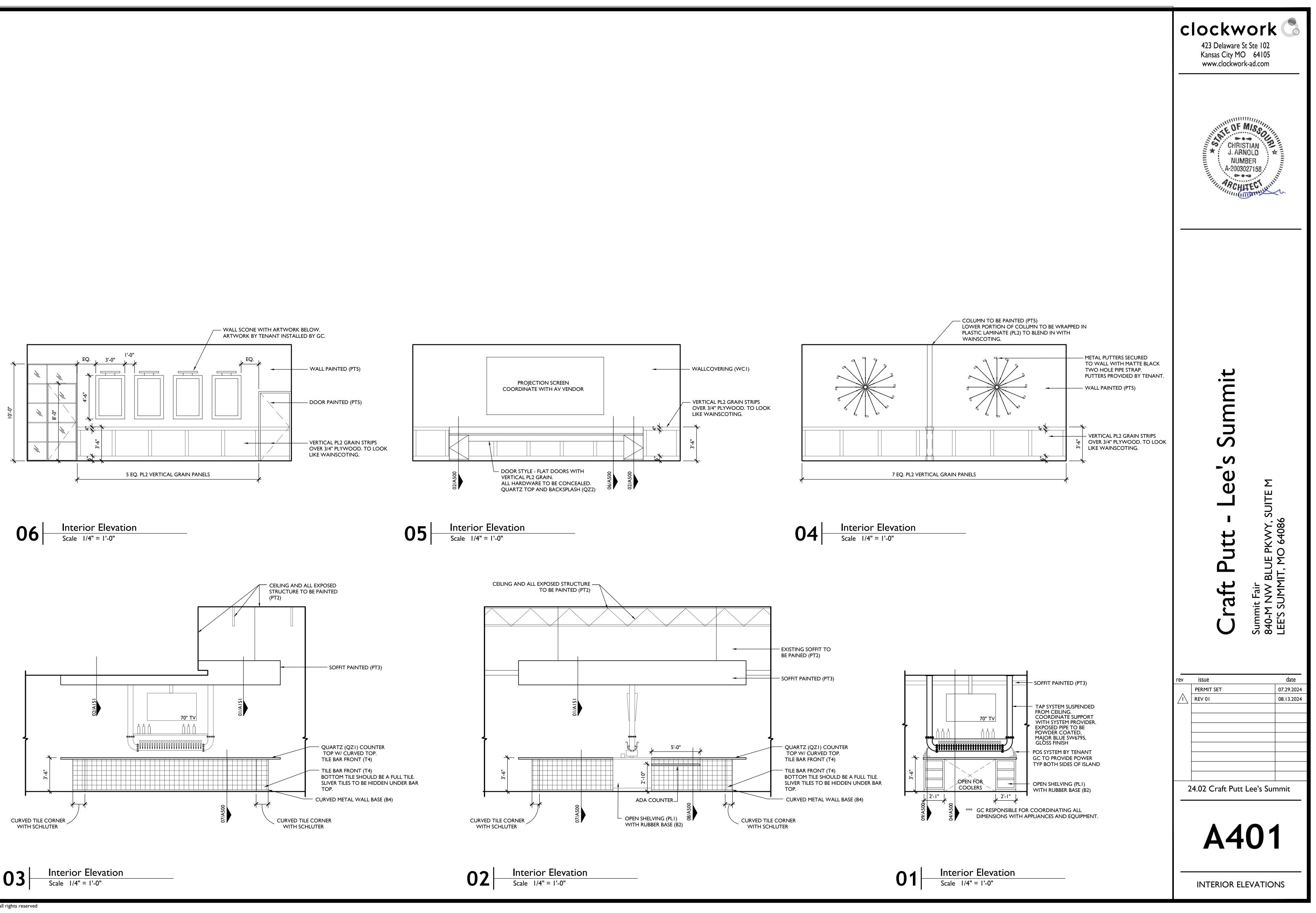
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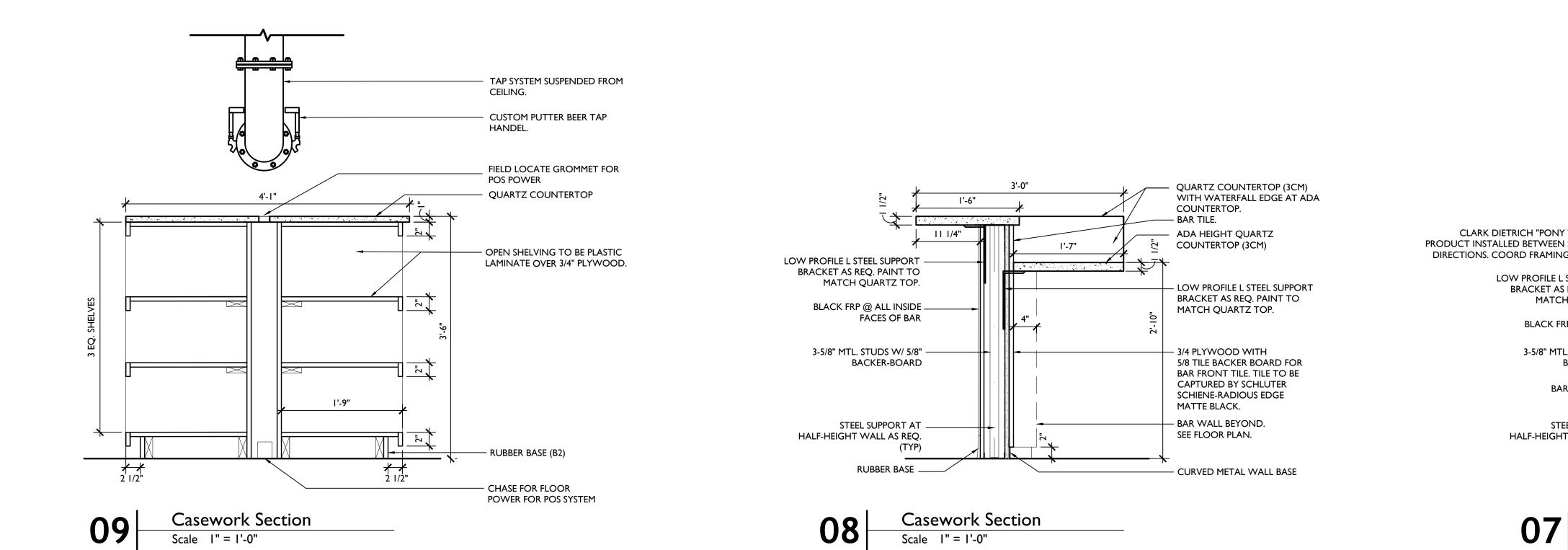


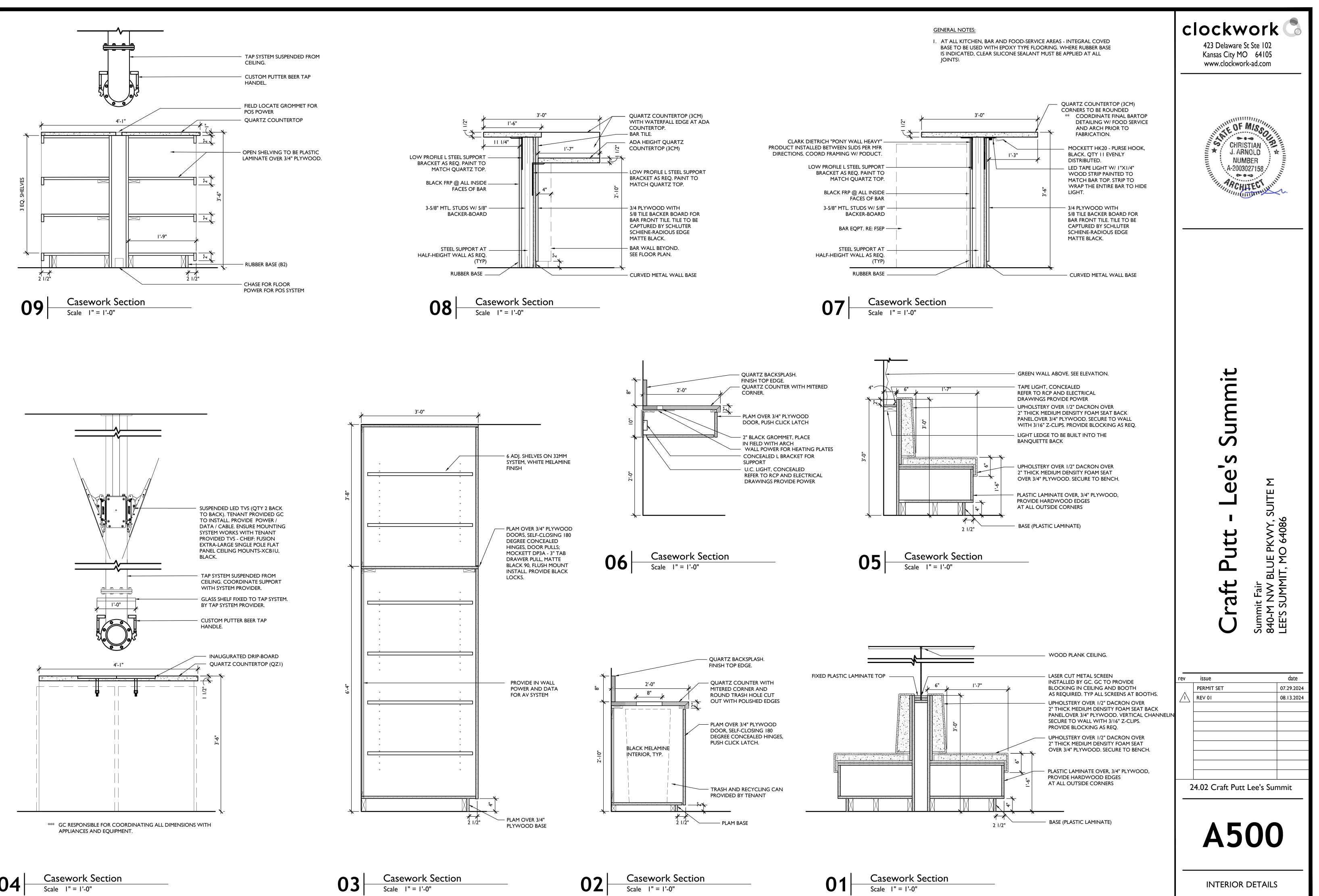




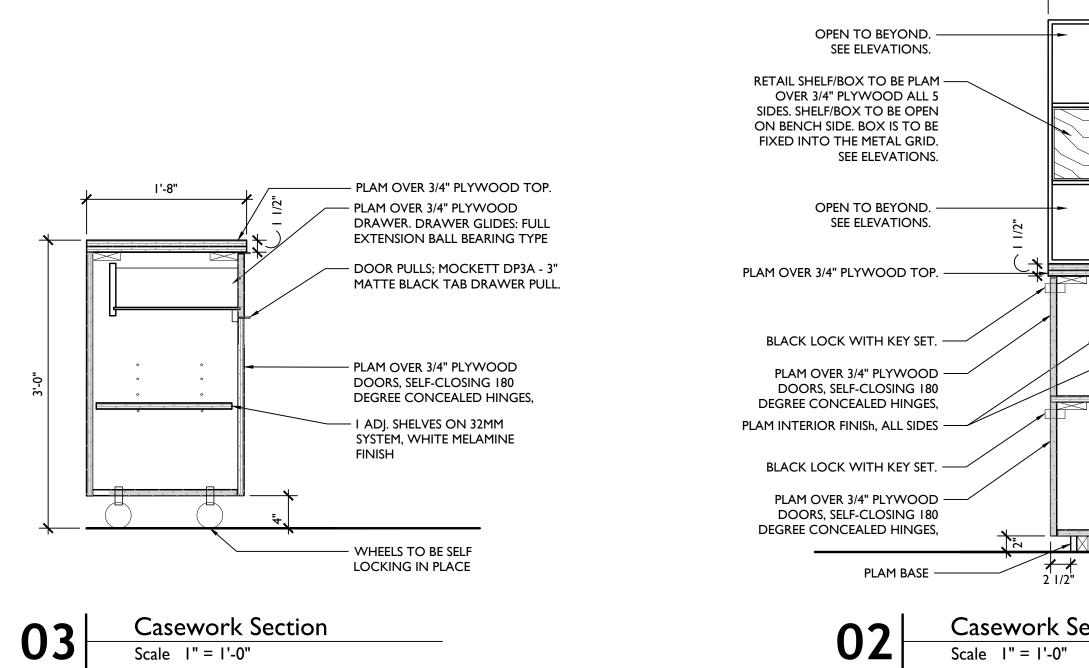
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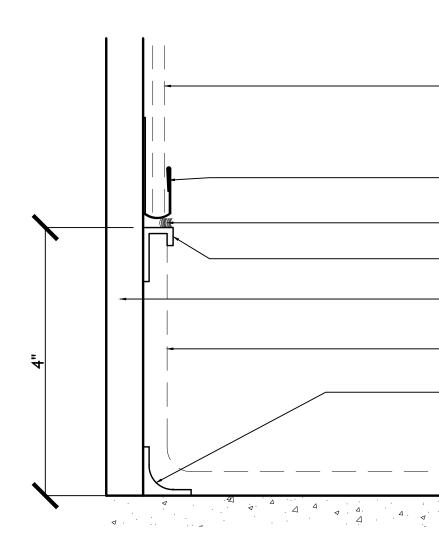






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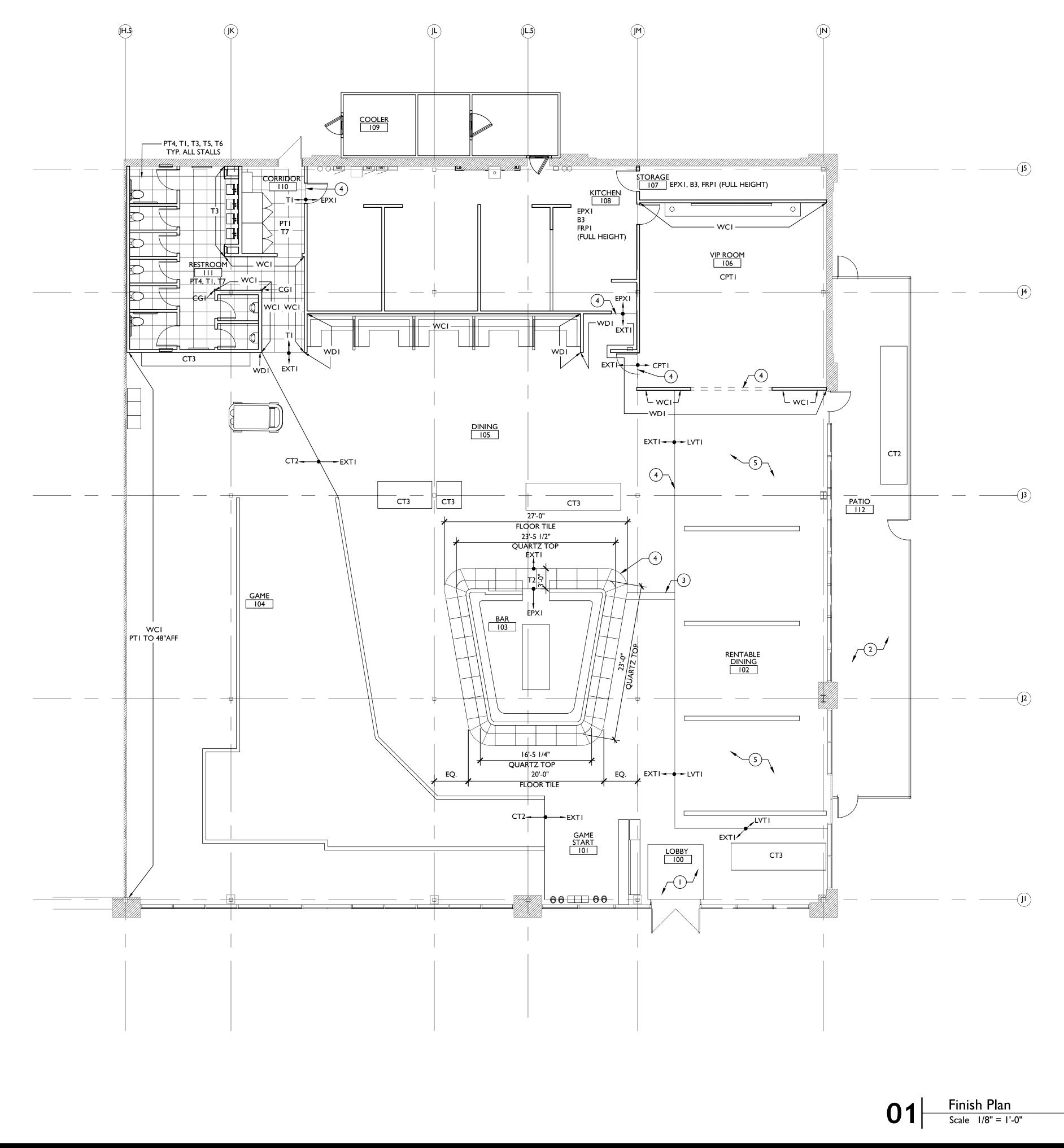
EPOXY ROLL-UP FLOOR BASE DETAIL- EPOX GENERAL NOTE: -ALL JOINTS/ GAPS SHALL BE SEALED W/ SILI

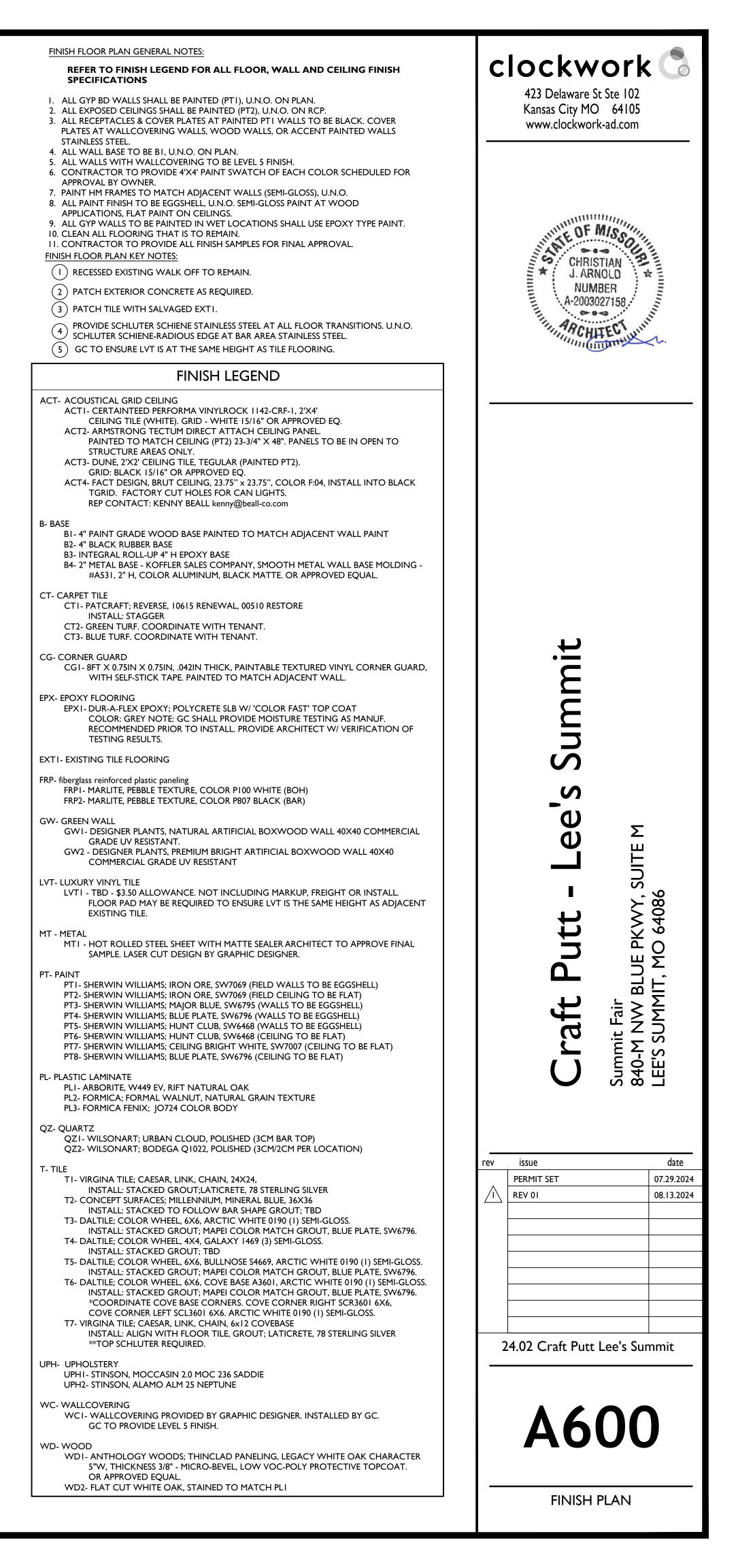
Interior Detail

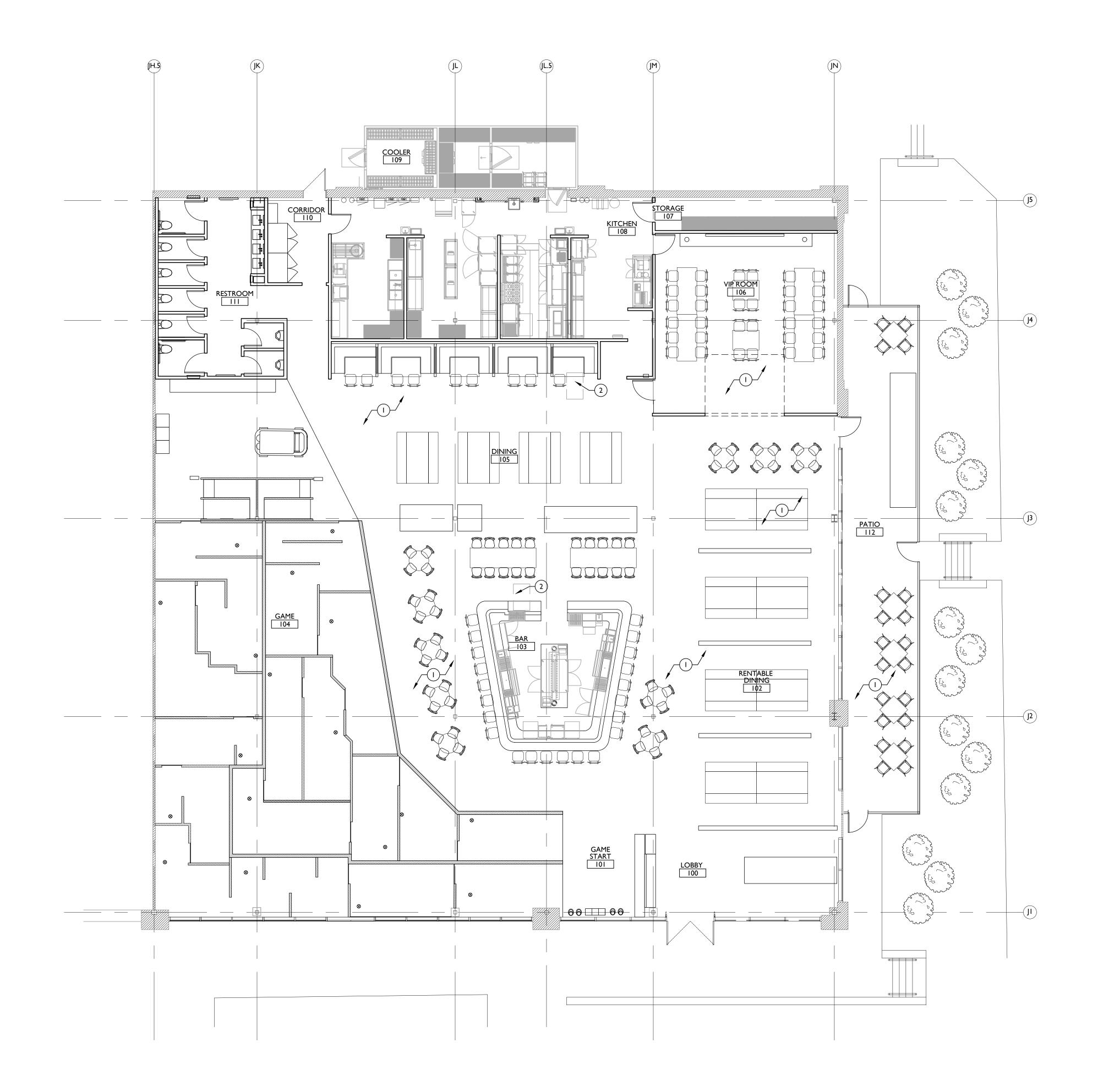
01

1'-6"	<u>GENERAL NOTES:</u> 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 JOINTS\	423 Delaware St Ste 102 Kansas City MO 64105 www.clockwork-ad.com
	BLACK POWDER COATED 1/2" METAL ROD. JOINTS TO BE WELDED TOGETHER. UPH2 BACK PAD SECURED TO BACK PANEL. UPH2 BACK PAD SECURED TO BACK PANEL. WHITE OAK BENCH TOP STAINED TO MATCH PLI. SECURE TO CASEWORK FOR TIPPING. BLACK POWDER COATED BENT METAL LEGS SECURED TO FLOOR AND BENCH TOP. I"XI" PLI OVER 3/4" PLYWOOD	CHRISTIAN J. ARNOLD NUMBER A-2003027158
Section		<b>t Putt - Lee's Summit</b> <sup>r</sup> <sup>r</sup> <sup>r</sup> <sup>r</sup> <sup>r</sup> <sup>r</sup> <sup>r</sup> <sup>r</sup> <sup>r</sup> MIT, MO 64086
	<ul> <li>STAINLESS LOCATIONS - STAINLESS BY FOOD SERVICE: PROVIDE STAINLESS CORNERS AND TOP CAP.</li> <li>FRP LOCATIONS - PROVIDED BY GC AND PROVIDE CORNERS AND TOP CAP.</li> <li>ANODIZED EPOXY FLOORING TRIM EDGE</li> <li>SILICONE SEALANT</li> <li>ANODIZED EPOXY FLOORING CAP STRIP</li> <li>CEMENTITIOUS BACKER BOARD</li> <li>4" ROLL-UP EPOXY FINISH</li> <li>PRE-FORMED EPOXY FLOOR COVE STRIP BY SUB OR SPEEDCOVE 3/4" RADIUS OR EQ.</li> </ul>	rev issue date PERMIT SET 07.29.2024 REV 01 08.13.2024
	<ul> <li>EPOXY FLOORING W/ MONOLITHIC COLOR (NO FLECKS) GC TO SUBMIT COLOR SAMPLE</li> <li>EXISTING/ NEW CONCRETE SLAB COORDINATE W/ EXISTING CONDITIONS</li> </ul>	24.02 Craft Putt Lee's Summit
DXY TO FRP OR STA	AINLESS STEEL PANEL TRANSITION	A501

INTERIOR DETAILS







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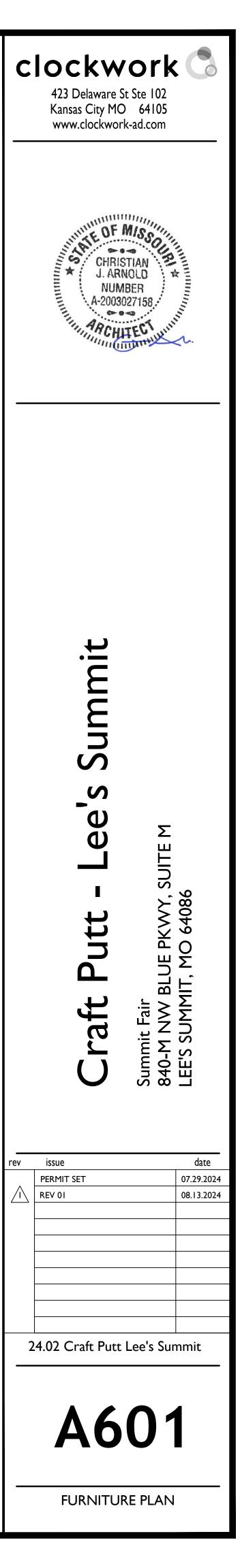


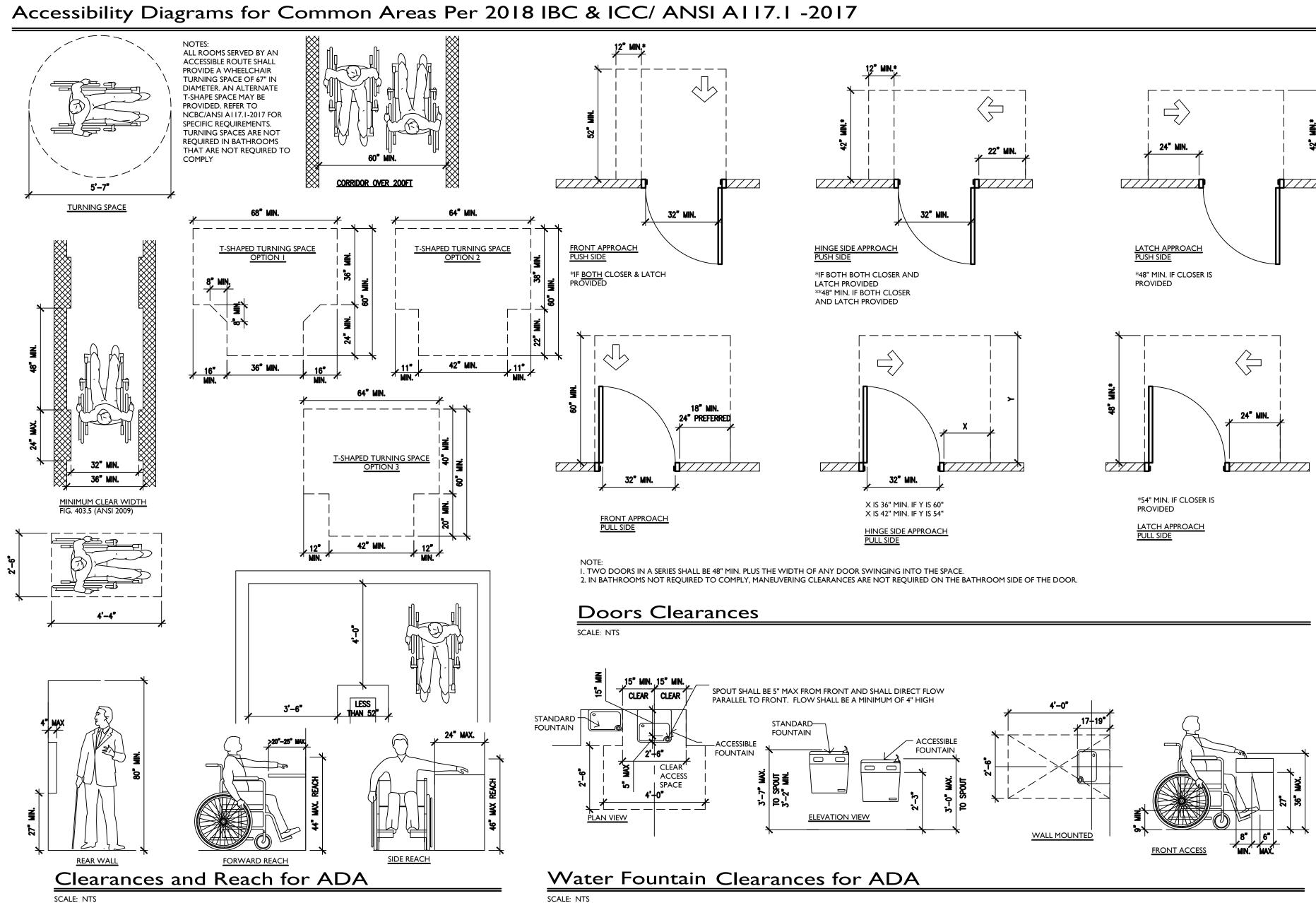
FURNITURE PLAN GENERAL NOTES:

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

FLOOR PLAN KEY NOTES:

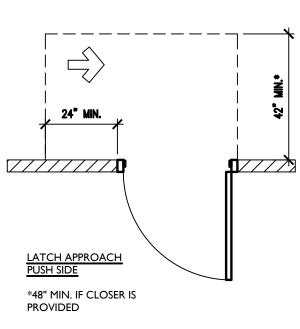
- I FURNITURE SHOWN AS REFERENCE.
- 2 30X48 CLEAR FLOOR SPACE FOR ADA APPROACH TO BAR/TABLE.

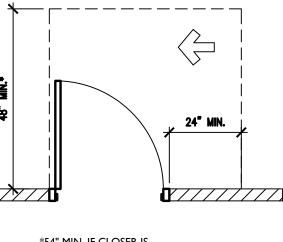


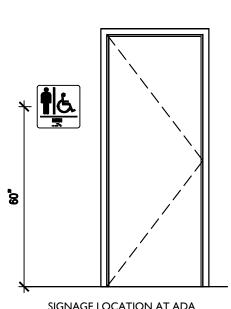


				DOOR				FRAME	HARDWARE	NOTES
NUMBER	ТҮР	WD	SIZE HGT	ТНК	MATL	FINISH	MATL	FINISH	SET NO	
100/01	EXST	-	-	-	-	-	-	-	-	PANIC HARDWARE IS EXISTING TO REMAIN
102/01	В	3-0"	9'-0"	-	-	-	-	-	HS-I	STOREFRONT SYSTEM IS TO MATCH ADJACENT STOREFRONT FIN
106/01	С	3-0"	8'-0"	١"	ALUM	BLACK	ALUM	BLACK	HS-3	
106/02	D	3-0"	7'-0"	3/4"	HM	PL2/PAINT	METAL	PAINT	HS-4	DOOR IS TO BLEND IN WITH WALLS. SEE ELEVATIONS.
107/01	А	3-0"	7'-0"	I 3/4"	HM	PAINT	METAL	PAINT	HS-4	
108/01	А	3-0"	7'-0"	I 3/4"	HM	PAINT	METAL	PAINT	HS-4	
110/01	EXST	-	-	-	-	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
111/01	A	3-0"	7'-0"	3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/02	А	2-8"	7'-0"	I 3/4"	НМ	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/03	А	2-8"	7'-0"	I 3/4"	НМ	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/04	А	2-8"	7'-0"	I 3/4"	НМ	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/05	А	2-8"	7'-0"	I 3/4"	НМ	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/06	А	3-0"	7'-0"	I 3/4"	НМ	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/07	А	2-8"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/08	А	2-8"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS

 $\triangle$ 







SIGNAGE LOCATION AT ADA RESTROOMS NOTE: THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO, AND USABLE BY PHYSICALLY DISABLED PERSONS., REF. FIG. 703.7.2.1



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 WALL PREFERABLY ON THE RIGHT.

WOMEN MEN 

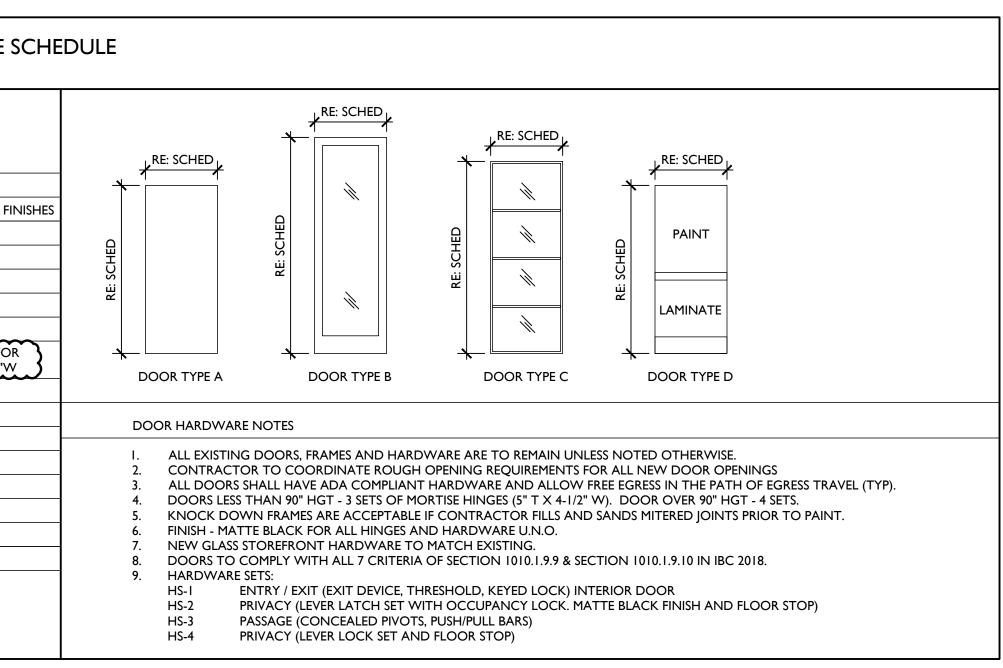
MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISH FLOOR TO THE CENTER LINE OF THE SIGN.

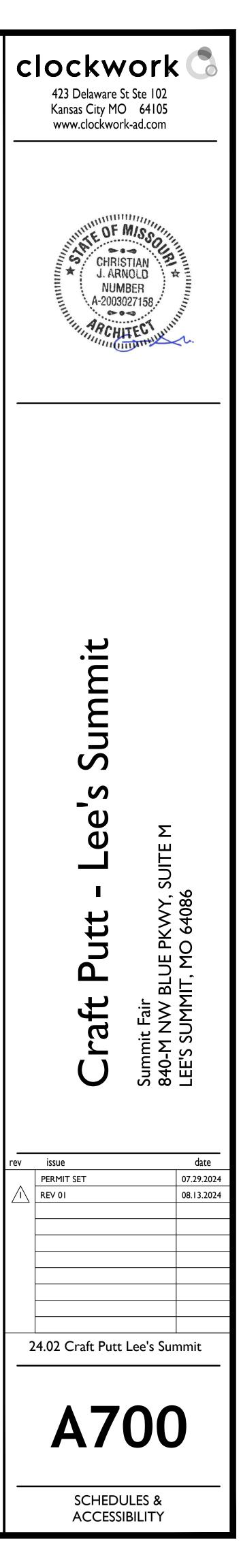
MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECT OR STANDING WITHIN THE SWING OF THE DOOR.

LETTER HEIGHT SHALL BE 🚀 - 2" MAX.

ALL UPPERCASE RAISED  $J_{32}$ " WITH CORRESPONDING BRAILLE.

# General Signage SCALE: NTS





# <u>LEGEND</u>

# FIRE ALARM

 $\langle s \rangle$ 

$\langle H \rangle \langle F \rangle$	FIRE DETECTION EQUIPMENT. DETECTOR TYPE: S=SMOKE, H=HEAT, F=FLAME,	UPPER CAS INDICATES INDICATES
$\langle c \rangle \langle c \rangle$	C=COMBINATION SMOKE/HEAT, CO=CO SENSOR	a A
	D=DUCT MOUNTED - DUCT TYPE: "S"=SUPPLY PLENUM; "R"=RETURN PLENUM	32
$\bigcirc$	INTERCOM	
$\vdash \!$	FIRE ALARM PULL STATION	32 、C32
	FIRE ALARM HORN - AUDIBLE ONLY	LS32
$\boxtimes \bowtie$	FIRE ALARM HORN - AUDIBLE ONLY - CEILING MOUNTED	LS32
	FIRE ALARM - VISUAL ONLY	a A
	CEILING MOUNTED FIRE ALARM - VISUAL ONLY	32 NL a A
$\boxtimes$	FIRE ALARM - INTELLIGIBLE SPEAKER/VISUAL	32 NL
	CEILING MOUNTED FIRE ALARM - AUDIBLE/VISUAL	C32 A
	BELL	a A
	WALL MOUNTED 2-WAY HORN	32 NL
S	CEILING MOUNTED 2-WAY HORN	a A
$\vdash \bullet$	PUSH BUTTON CONTROL SWITCH	32 NL
M E	MAGNETIC OR ELECTRICAL DOOR HOLDER	a A
	CEILING MOUNTED SPEAKER	32 NL
$\vdash \bigcirc$	WALL MOUNTED SPEAKER	a A
??	FIRE ALARM NOTE	$\bigcirc$
$\bullet$	CONNECT TO EXISTING	32 N
$\bigcirc$	LIMIT OF DEMOLITION	a A
ζ	CONTINUATION	

# **MEP SHEET LIST**

ELECTRICAL	
DE100	ELECTRICAL DEMOLITION PLAN
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM
EP100	ELECTRICAL NEW WORK PLAN
FIRE PROTEC	TION
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	
DP100	PLUMBING DEMOLITION PLAN
P100	PLUMBING WASTE & VENT NEW WORK PLAN
P101	PLUMBING DOMESTIC WATER AND GAS NEW WORK PLAN
P500	PLUMBING DETAILS
P600	PLUMBING SCHEDULES
P601	PLUMBING SCHEDULES
P700	PLUMBING DOMESTIC WATER PIPING ISOMETRIC
P701	PLUMBING WASTE AND VENT PIPING ISOMETRIC
P702	PLUMBING NATURAL GAS PIPING ISOMETRIC
	1

# <u>LIGHTING</u>

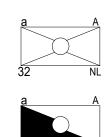
, C32 H**M** 

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

SPLASH, COUNTER OR SURFACE. COORDINATE WITH ARCH CASEWORK DOCUMENTS. RECESSED OR PENDANT MOUNT LIGHT WITH FIXTURE MARK.  $\vdash$ DUPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" A.F.F. G GROUND FAULT INTERRUPTING RECEPTACLE. CENTER 18" A  $\vdash \bigcirc$ LIGHT WITH FIXTURE MARK, WALL BRACKET  $\Rightarrow$ SPECIAL RECEPTACLE AS NOTED K<sup>C32</sup> RECESSED OR PENDANT MOUNT LIGHT FIXTURE ON EMERGENCY FLOOR MOUNTED COMBINATION DATA/POWER RECEPTACLE  $(\mathbf{A})$ POWER AS NOTED CEILING MOUNTED COMBINATION DATA/POWER RECEPTACI  $|\nabla|$ LIGHT WITH FIXTURE MARK, WALL BRACKET ON EMERGENCY POWER AS NOTED DUPLEX GROUNDING TYPE RECEPTACLE ON EMERGENCY PO Þ 18" A.F.F. UNLESS NOTED. 12x48 LIGHT FIXTURE SIMPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" A.F.F.  $\mapsto$ ()FLUSH FLOOR DUPLEX GROUNDING TYPE RECEPTACLE. 12x48 LIGHT FIXTURE ON EMERGENCY POWER CIRCUITED SUCH THAT ONE LAMP ENERGIZES WHEN POWER IS LOST. PROVIDE EMERGENCY BATTERY DUPLEX RECEPTACLE ON ISOLATED GROUND. CENTER 18" BALLAST. 12x48 LIGHT FIXTURE ON EMERGENCY POWER QUADRUPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" Ħ₽₽-QUADRUPLEX GROUND FAULT INTERRUPTING RECEPTACLE. UNLESS NOTED. 24x24 LIGHT FIXTURE GANG BOX GANG BOX ON ISOLATED GROUND DATA OUTLET. CENTER 18" A.F.F. UNLESS NOTED. 24x24 LIGHT FIXTURE ON EMERGENCY POWER CIRCUITED SUCH THAT ONE TELEPHONE OUTLET. CENTER 18" A.F.F. UNLESS NOTED. LAMP ENERGIZES WHEN POWER IS LOST. PROVIDE EMERGENCY BATTERY COMBINATION DATA/TELEPHONE OUTLET. CENTER 18" A.F.F BALLAST. FIRE DEPARTMENT EMERGENCY TELEPHONE OUTLET DATA OUTLET IN FLOOR BOX 24x24 LIGHT FIXTURE ON EMERGENCY POWER TELEPHONE OUTLET IN FLOOR BOX COMBINATION DATA/TELEPHONE OUTLET IN FLOOR BOX 24x48 LIGHT FIXTURE SPECIAL OUTLET IN FLOOR BOX FLOOR MOUNTED POWER POLE GROUND 12x48 LIGHT FIXTURE ON EMERGENCY POWER CIRCUITED SUCH THAT ONE PANELBOARD, TOP 84" A.F.F. LAMP ENERGIZES WHEN POWER IS LOST. PROVIDE EMERGENCY BATTERY BALLAST. DISCONNECT SWITCH, SIZE AND TYPE AS NOTED IN DISCONN SCHEDULE. DS = L $\ge$ MOTOR STARTER, SIZE AND TYPE AS NOTED. 24x48 LIGHT FIXTURE ON EMERGENCY POWER  $\bowtie$ MOTOR STARTER/DISCONNECT SWITCH, SIZE AND TYPE AS ELECTRIC THERMOSTAT/CONTROL, EQUIPMENT CONNECTIO REQUIRED. CENTER 46" A.F.F. 12x96 LIGHT FIXTURE TRANSFORMER 12x96 LIGHT FIXTURE ON EMERGENCY POWER CIRCUITED SUCH THAT ONE LAMP ENERGIZES WHEN POWER IS LOST. PROVIDE WALL MOUNTED TELEVISION SINGLE GANG BOX. PROVIDE W ⊢TV EMERGENCY BATTERY BALLAST. TO ACCESSIBLE LOCATION ABOVE CEILING. J UNDERCOUNTER STRIP LIGHT CEILING MOUNTED JUNCTION BOX FLOOR MOUNTED JUNCTION BOX J TRACK LIGHT ⊢J WALL MOUNTED JUNCTION BOX EXIT LIGHT SHOWING SINGLE DIRECTION OF EGRESS AND FACE. I M PROVIDE EMERGENCY BATTERY BALLAST. MOTOR SWITCH EXIT LIGHT SHOWING MULTIPLE DIRECTION OF EGRESS. PROVIDE EMERGENCY <u>(M)</u> MOTOR BATTERY BALLAST. ۲ DESK MOUNTED PUSH BUTTON CONTROL SWITCH EXIT LIGHT, WALL MOUNTED. SHOWING MULTIPLE DIRECTION OF EGRESS. PROVIDE EMERGENCY BATTERY BALLAST.  $\vdash \bullet$ PUSH BUTTON CONTROL SWITCH EXIT LIGHT, BACK WALL MOUNTED, SINGLE FACE (PROVIDE EMERGENCY MAGNETIC OR ELECTRICAL DOOR HOLDER BATTERY.) CARD READER CR EXIT LIGHT, END WALL MOUNTED, SINGLE FACE, ARROW INDICATES DIRECTION OF EGRESS. (PROVIDE EMERGENCY BATTERY.) PP POWER PACK EXIT LIGHT, END WALL MOUNTED, DOUBLE FACE, ARROWS INDICATE DIRECTION PC PHOTOCELL OF EGRESS. (PROVIDE EMERGENCY BATTERY.) CLOSED CIRCUIT TV EXIT LIGHT, CEILING MOUNTED, SINGLE FACE, ARROW INDICATES DIRECTION OF EGRESS. (PROVIDE EMERGENCY BATTERY.) HO MULTI - OUTLET ASSEMBLY WITH OUTLETS 12" ON CENTER ( OR DOUBLE CIRCUIT AS INDICATED ON DRAWINGS). ABOVE 21 EXIT SIGN WITH EMERGENCY LIGHT HOME RUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER DE INDICATES A 2-#12 WIRE CIRCUIT WITH GROUND. A GREATER CEILING MOUNTED EMERGENCY LIGHT. LAMP ENERGIZES WHEN POWER IS LOST. WALL MOUNTED EMERGENCY. LAMP ENERGIZES WHEN POWER IS LOST. N.E.C. IF HOME RUN IS ANNOTATED, SEE FEEDER AND BRAM SCHEDULE FOR SIZE. WALL SWITCH SINGLE POLE, CENTER 46" A.F.F. WEATHER-PROOF WP WALL SWITCH THREE - WAY, CENTER 46" A.F.F. ?? ELECTRICAL NOTE WALL SWITCH FOUR - WAY, CENTER 46" A.F.F.

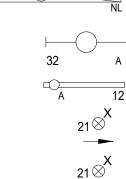
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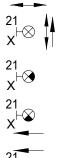
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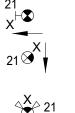


<u>ELECTRICAL</u>

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DIMMER SWITCH, CENTER 46" A.F.F. MOTOR RATED WALL SWITCH

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(OS) OCCUPANCY SENSOR - CEILING MOUNTED OCCUPANCY SENSOR - WALL MOUNTED a,b,c,d

LIGHTING NOTE CONNECT TO EXISTING

- LIMIT OF DEMOLITION
- CONTINUATION

LEGEND

RICAL	MECHANICAL	<u>.</u>
DUPLEX GROUNDING TYPE RECEPTACLE CENTERED 4" ABOVE BACK SPLASH, COUNTER OR SURFACE. COORDINATE WITH ARCHITECTURAL CASEWORK DOCUMENTS.	CHWS CHWR HHWS	CHILLED WATER RETURN HEATING HOT WATER SUPPLY
DUPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED.	— RL — RS —	REFRIGERANT LIQUID
GROUND FAULT INTERRUPTING RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED.		REFRIGERANT DISCHARGE GAS
SPECIAL RECEPTACLE AS NOTED	—— LPC —— —— HPC —— —— MPC ——	HIGH PRESSURE CONDENSATE
FLOOR MOUNTED COMBINATION DATA/POWER RECEPTACLE	LPS HPS	LOW PRESSURE STEAM
CEILING MOUNTED COMBINATION DATA/POWER RECEPTACLE	MPS	MEDIUM PRESSURE STEAM
DUPLEX GROUNDING TYPE RECEPTACLE ON EMERGENCY POWER, CENTER 18" A.F.F. UNLESS NOTED.	*****	PIPING TO BE DEMOLOISHED
SIMPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED.	MECHANICAI ABBREVIATIO	L DNS: EA EXHAUST AIR
FLUSH FLOOR DUPLEX GROUNDING TYPE RECEPTACLE.		FA RELIEF AIR OA OUTSIDE AIR
DUPLEX RECEPTACLE ON ISOLATED GROUND. CENTER 18" A.F.F. UNLESS NOTED.		RA RETURN AIR SA SUPPLY AIR
QUADRUPLEX GROUNDING TYPE RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED.		
		SLOT DIFFUSER
QUADRUPLEX GROUND FAULT INTERRUPTING RECEPTACLE. CENTER 18" A.F.F. UNLESS NOTED. GANG BOX	[i]_] ╼╾∕/	SPIN-IN WITH DAMPER IN NECK AIR FLOW DIRECTION
GANG BOX ON ISOLATED GROUND		RETURN GRILLE/DUCT
DATA OUTLET. CENTER 18" A.F.F. UNLESS NOTED. TELEPHONE OUTLET. CENTER 18" A.F.F. UNLESS NOTED.		SUPPLY DIFFUSER/DUCT
COMBINATION DATA/TELEPHONE OUTLET. CENTER 18" A.F.F. UNLESS NOTED.		EXHAUST GRILLE/DUCT
FIRE DEPARTMENT EMERGENCY TELEPHONE OUTLET		
DATA OUTLET IN FLOOR BOX	MVD	MANUAL VOLUME DAMPER
TELEPHONE OUTLET IN FLOOR BOX	BDD	BACKDRAFT DAMPER
COMBINATION DATA/TELEPHONE OUTLET IN FLOOR BOX	FD FSD	FIRE/SMOKE DAMPER
SPECIAL OUTLET IN FLOOR BOX	M	MOTORIZED DAMPER
FLOOR MOUNTED POWER POLE	(T)	TUEDMOOTAT
GROUND PANELBOARD, TOP 84" A.F.F.	Ý	THERMOSTAT
DISCONNECT SWITCH, SIZE AND TYPE AS NOTED IN DISCONNECT SWITCH	(H) L	
SCHEDULE.		BALL VALVE GLOBE VALVE
MOTOR STARTER, SIZE AND TYPE AS NOTED.		CHECK VALVE
MOTOR STARTER/DISCONNECT SWITCH, SIZE AND TYPE AS NOTED.	K	BUTTERFLY VALVE
ELECTRIC THERMOSTAT/CONTROL, EQUIPMENT CONNECTION AS REQUIRED. CENTER 46" A.F.F.		
TRANSFORMER		TRIPLE DUTY/STOP-CHECK VALVE
WALL MOUNTED TELEVISION SINGLE GANG BOX. PROVIDE WITH 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.		PRESSURE REDUCING VALVE
CEILING MOUNTED JUNCTION BOX		PRESSURE RELIEF VALVE
FLOOR MOUNTED JUNCTION BOX		COOLING TOWER HAT/BALANCE VAL
WALL MOUNTED JUNCTION BOX	Ψ	
	Ý	PRESSURE INDICATOR PETE'S PLUG
MOTOR SWITCH	۲ ب	
MOTOR		MANUAL AIR VENT ELBOW DOWN
DESK MOUNTED PUSH BUTTON CONTROL SWITCH	0+	ELBOW UP
PUSH BUTTON CONTROL SWITCH	ГЧ	FLEXIBLE PIPE CONNECTION
MAGNETIC OR ELECTRICAL DOOR HOLDER	$\equiv$	SUCTION DIFFUSER
		STRAINER
POWER PACK	<i>,</i>	
PHOTOCELL		EQUIPMENT TYPE EQUIPMENT ID
CLOSED CIRCUIT TV		TERMINAL DEVICE ID
MULTI - OUTLET ASSEMBLY WITH OUTLETS 12" ON CENTER (SINGLE OR DOUBLE CIRCUIT AS INDICATED ON DRAWINGS). ABOVE COUNTER	22x22 -	NECK SIZE DESIGN AIRFLOW (CFM)
HOME RUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2-#12 WIRE CIRCUIT WITH GROUND. A GREATER NUMBER OF		MECHANICAL NOTE
WIRES IS INDICATED AS FOLLOWS: "	•	CONNECT TO EXISTING
N.E.C. IF HOME RUN IS ANNOTATED, SEE FEEDER AND BRANCH CIRCUIT SCHEDULE FOR SIZE.		LIMIT OF DEMOLITION
WEATHER-PROOF	ζ	CONTINUATION

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

KEY OPERATED WALL SWITCH, CENTER 46" A.F.F.

COMBINATION OCCUPANCY SENSOR/SWITCH

INDICATES LIGHTING FIXTURE SWITCHING SCHEME

NIGHT LIGHT - UNSWITCHED FOR 24-HOUR OPERATION AS NOTED

GENERAL ANNOTATION ABBREVIATIONS

CONNECT TO EXISTING

LIMIT OF DEMOLITION

CONTINUATION

MEP MECHANICAL, ELECTRICAL, PLUMBING AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE

# <u>LEGEND</u>

	PLUMBING	
, JPPLY ETURN GE GAS NSATE NSATE IDENSATE IDENSATE	PLUMBING	CA CO CD CO NG NA LPG LIQ SD STO OSD OV
	NG	NG NA
К	PLUMBING ABBREVIATIONS: N.O. N.C. F.O. F.C IW	NORMAL
		FLOOR C CLEAN C WALL CL
		FLOOR [
	0	FLOOR S
	+ HB	HOSE BI
		WALL HY
		VENT TH
		BACKFL
		STRAINE BALL VA
		CHECK \
	——————————————————————————————————————	GATE VA
		PLUG VA
ALVE		ELECTR
ALVE		PRESSU
		FLOW CO PUMP
CE VALVE		WATER I
		EXPANS
		ANCHOF
		FLOW A
		PIPE REI WATER I
		TEMPER
		PRESSU
	•	PETE'S F
	$\bigvee$	VACUUM
	C-+	ELBOW I
	$\bigcirc +$	TEE UP
	Г	FLEXIBL
	DRN01	PLUMBIN
	??	DETAIL NI

CWDOMESTIC COLD WATERCWFILTERED COLD WATERSCWSOFTENED COLD WATERWWDOMESTIC HOT WATERHWRHOT WATER RECIRCULATIONHWRTEMPERED HOT WATER RECIRCULATIONYSANITARY VENT/BGSANITARY VENT BELOW GRADESSANITARY WASTESWGREASE WASTESWGREASE WASTECONDENSATE DRAINVSAONTURAL GASPGLIQUEFIED PETROLEUM GASSDOVERFLOW STORM DRAINSDOVERFLOW STORM DRAINSDSTORM DRAIN BELOW GRADESPSUMP PUMP DISCHARGE OR SEWAGE PUMP DISCHARGE OR SEWAGE PUMP DISCHARGEIGNATURAL GAS ON ROOF PIPING TO BE DEMOLISHED
NORMALLY OPEN NORMALLY CLOSED FAIL OPEN FAIL CLOSE INDIRECT WASTE
FLOOR OR EXTERIOR CLEAN OUT CLEAN OUT
WALL CLEAN OUT
FLOOR DRAIN FLOOR SINK
HOSE BIBB
WALL HYDRANT
VENT THROUGH ROOF
BACKFLOW PREVENTER
STRAINER
BALL VALVE CHECK VALVE
GATE VALVE
PLUG VALVE
ELECTRICALLY ACTIVATED VALVE PRESSURE REDUCING VALVE FLOW CONTROL VALVE PUMP
WATER METER
EXPANSION JOINT
ANCHOR FLOW ARROW PIPE REDUCTION WATER HAMMER ARRESTOR TEMPERATURE INDICATOR PRESSURE INDICATOR
PETE'S PLUG VACUUM RELIEF VALVE
ELBOW DOWN
TEE UP
FLEXIBLE PIPE CONNECTION
PLUMBING FIXTURE TAG
DETAIL NUMBER
DETAIL TAG
SHEET DETAIL IS ON
PLUMBING NOTE
LIMIT OF DEMOLITION

CONTINUATION

LIMIT OF DEMOLITION

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MEP LEGENDS AND SYMBOLS



# **GENERAL MEP & FP SPECIFICATIONS**

- 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. A. 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 3. WORK
- 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 REFUSE FROM SITE REGULARLY. 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 8. 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 11. APPROVAL.
- MANUFACTURER'S LISTED IN THE EQUIPMENT SCHEDULES ARE INTENDED TO ESTABLISH QUALITY ONLY AND DOES NOT LIMIT EQUAL 12. 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 14. 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.
- 16. DEFINITIONS: "PIPING" INCLUDES, IN ADDITION TO PIPE, ALL FITTINGS, VALVES, SLEEVES, HANGERS, AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH PIPING.
  - "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

OPFRATION.

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MECHANICAL SPECIFICATIONS	FIRE ALARM SPECIFICATIONS	ELECTRICA
DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT	1.1 FIRE ALARM SYSTEM	1.1 THE ENTIRE ELECTRICAL SY
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	<ul> <li>NONCODED, ADDRESSABLE SYSTEM, WITH MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY.</li> <li>FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:</li> </ul>	1.2 GROUNDING SHALL CONSIST
APPROVED. SIZES SHOWN ON DRAWINGS FOR RECTANGULAR DUCTS ARE AIR OPENING SIZES. INSTALL DUCTS ACCORDING TO SMACNA'S	<ul> <li>FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OF MORE OF THE FOLLOWING DEVICES.</li> <li>SPRINKLER SYSTEM ACTIVATION.</li> </ul>	METALLIC RACEWAYS SHALL
"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	<ol> <li>DUCT SMOKE DETECTORS.</li> <li>KITCHEN EXHAUST HOOD.</li> </ol>	1.3 ELECTRICAL EQUIPMENT EXI
JOINTS. INSTALL FACTORY- OR SHOP-FABRICATED FITTINGS FOR CHANGES IN DIRECTION, SIZE, AND SHAPE AND FOR BRANCH CONNECTIONS.	4. ACTIVATION OF MANUAL PULL STATION.	1.3 ELECTRICAL EQUIPMENT EXI
CONSTRUCT TEES, BENDS, AND ELBOWS WITH RADIUS MINIMUM 1-1/2 TIMES WIDTH OF DUCT ON CENTER LINE.	C. FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS: 1. CONTINUOUSLY OPERATE ALARM-NOTIFICATION APPLIANCES.	1.4 WIRE: A. ALL WIRE SHALL BE
DUCT SCHEDULE:	2. IDENTIFY ALARM AT THE EXISTING FIRE-ALARM CONTROL UNIT.	B. ALL WIRE SHALL BE
A. FABRICATE DUCTS WITH GALVANIZED SHEET STEEL. TYPE 1 HOOD EXHAUST DUCT TO BE WELDED MINIMUM 18-GAUGE OR 20-GAUGE STAINLESS STEEL.	<ol> <li>SWITCH HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT CONTROLS TO FIRE-ALARM MODE.</li> <li>SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS: INITIATE NOTIFICATION APPLIANCE AND ANNUNCIATE AT FIRE-ALARM</li> </ol>	C. ALL BUILDING WIRE D. THE MINIMUM WIRE
B. SUPPLY DUCT PRESSURE CLASS:	CONTROL UNIT.	E. THE USE OF ROME
<ol> <li>DUCTS BETWEEN CONSTANT-VOLUME AIR-HANDLING UNITS AND AIR OUTLETS: POSITIVE 2-INCH WATER GAUGE (W.G.) (500 PASCAL).</li> </ol>	E. NOTIFICATION APPLIANCES: CONNECTED TO NOTIFICATION APPLIANCE SIGNAL CIRCUITS, ZONED AS INDICATED, EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.	F. ELECTRICAL CONTF LOSS CALCULATED
2. DUCTS CONNECTED TO EQUIPMENT NOT LISTED ABOVE: POSITIVE 2-INCH WG (500 PASCAL)	1. COMBINATION DEVICES: FACTORY-INTEGRATED AUDIBLE AND VISIBLE DEVICES IN A SINGLE-MOUNTING ASSEMBLY,	I. COLOR CODING
<ul> <li>C. RETURN DUCT PRESSURE CLASS:</li> <li>1. DUCTS CONNECTED TO AIR HANDLING UNITS AND AIR INLETS: POSITIVE OR NEGATIVE 2-INCH WG (500 PA).</li> </ul>	EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS. 2. VISIBLE NOTIFICATION APPLIANCES: XENON STROBE LIGHTS COMPLY WITH UL 1971, WITH CLEAR OR NOMINAL WHITE	a. 208Y/120V b. 480Y/277V:
D. LINER: (AHU SUPPLY AND RETURN DUCTS FOR A TOTAL OF 10 FEET)	POLYCARBONATE LENS MOUNTED ON AN ALUMINUM FACEPLATE. THE WORD "FIRE" IS ENGRAVED IN MINIMUM 1-INCH- (25-	GROUNDIN
<ol> <li>SUPPLY AIR DUCTS: FIBROUS GLASS, TYPE I, 1 INCH (25 MILLIMETER) THICK.</li> <li>RETURN AIR DUCTS: FIBROUS GLASS, TYPE I, 1 INCH (25 MILLIMETER) THICK.</li> </ol>	MM-) HIGH LETTERS ON THE LENS. F. MANUAL FIRE-ALARM BOXES	1.5 RACEWAYS:
	1. GENERAL REQUIREMENTS FOR MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES MUST BE FINISHED IN RED WITH	A. ALL UNDERSLAB OF
DIFFUSERS, REGISTERS, AND GRILLES A. SOURCE QUALITY CONTROL	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	ELBOWS AND RISEF B. ALL CONDUITS INSI
Source goal in control     Source goal in control     Verification of Performance: Rate Diffusers, Registers, and Grilles according to Ashrae 70, "Method	MANUFACTURER'S SURFACE BACK BOX.	C. FLEXIBLE METAL CO
OF TESTING FOR RATING THE PERFORMANCE OF AIR OUTLETS AND INLETS." B. INSTALLATION	A. 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)	D. RIGID OR INTERMED F. SEALTITE SHALL BE
1. INSTALLATION 1. INSTALL DIFFUSERS, REGISTERS, AND GRILLES LEVEL AND PLUMB.	ADDRESSABLE MODULE ARRAINGED TO COMMUNICATE MAINDAL-STATION STATUS (NORMAL, ALARM, OR TROUBLE) TO FACU.	G. ALL RACEWAYS SH
<ol> <li>INSTALL DIFFUSERS, REGISTERS, AND GRILLES WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE AND MAINTENANCE OF DAMPERS AND AIR EXTRACTORS.</li> </ol>	<ul> <li>B. STATION RESET: KEY- OR WRENCH-OPERATED SWITCH.</li> <li>C. INDOOR PROTECTIVE SHIELD: FACTORY-FABRICATED, CLEAR PLASTIC ENCLOSURE HINGED AT TOP TO PERMIT</li> </ul>	DIRECTLY TO ROOF H. ALL RACEWAYS SH/
C. AFTER INSTALLATION, ADJUST DIFFUSERS, REGISTERS, AND GRILLES TO AIR PATTERNS INDICATED, OR AS DIRECTED, BEFORE	LIFTING FOR ACCESS TO INITIATE ALARM.	I. PROVIDE PLASTIC E
STARTING AIR BALANCING.	D. ABLE TO BE USED IN INDOOR AREAS. G. TESTS AND INSPECTIONS:	J. SEAL ALL PENETRA RATED WALLS, FLO
TEST, BALANCE AND START-UP	<ol> <li>TESTS AND INSPECTIONS.</li> <li>1. VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING.</li> </ol>	K. WIRING PULLING EC
<ul> <li>A. START-UP OF HEATING/COOLING SYSTEMS, INCLUDING PACKAGED ROOFTOP UNITS WITH CONTROL SYSTEMS.</li> <li>B. TEST AND BALANCE OF EXHAUST AND HEATING/COOLING AIR SYSTEMS INCLUDING EACH AND EVERY DIFFUSER. GRILLE AND</li> </ul>	A. 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"	1. PROVIDE I 2. PROVIDE I
B. TEST AND BALANCE OF EXHAUST AND HEATING/COOLING AIR STSTEMS INCLUDING EACH AND EVERT DIFFUSER, GRILLE AND REGISTER AT AIR VOLUMES INDICATED ON THE DRAWINGS.	SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER.	AMPLE EX
<ol> <li>ADJUST ROOFTOP UNITS AND EXHAUST FANS TO DELIVER TOTAL INDICATED AIR FLOWS WITHIN THE MAXIMUM ALLOWABLE FAN SPEED LISTED BY THE MANUFACTURER.</li> </ol>	B. 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	1.6 LUMINARIES:
2. SUPPLY, RETURN, EXHAUST FANS AND EQUIPMENT ALONG WITH AIR OUTLETS AND INLETS SHALL BE ADJUSTED	LIST ONLY THE INSTALLED COMPONENTS.	A. ALL LIGHT FIXTURE
TO WITHIN PLUS OR MINUS 10 PERCENT. C. PREPARE AND SUBMIT FOR RECORD A REPORT OF THE SYSTEM TEST AND BALANCE INDICATING FINAL SETTINGS OF ALL EXHAUST	<ol> <li>SYSTEM TESTING: COMPLY WITH "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NEPA 72.</li> </ol>	SPECIFICATIONS. B. ELECTRICAL CONT
FANS, HEATING/COOLING EQUIPMENT, CONTROL DAMPERS, DIFFUSERS, GRILLES AND REGISTERS.	3. TEST AUDIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN	B. ELECTRICAL CONTR INDEPENDENTLY SI
D. PREPARE AND SUBMIT FOR RECORD A PRE-CONSTRUCTION REPORT OF THE EXISTING SYSTEMS TEST AND BALANCE INDICATING	INSTRUCTIONS. PERFORM THE TEST USING A PORTABLE SOUND-LEVEL METER COMPLYING WITH TYPE 2 REQUIREMENTS IN ANSI \$1.4.	C. REPLACE DEFECTIV
FINAL SETTINGS OF ALL EXHAUST FANS, HEATING/COOLING EQUIPMENT, CONTROL DAMPERS, DIFFUSERS, GRILLES AND REGISTERS.	4. TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.	1.7 DEVICES
MOTORS A. MOTOR SIZES: MINIMUM SIZE AS INDICATED. IF NOT INDICATED. LARGE ENOUGH SO DRIVEN LOAD WILL NOT REQUIRE MOTOR TO	<ol> <li>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</li> </ol>	A. POWER EQUIPMEN B. COORDINATE WIRIN
OPERATE IN SERVICE FACTOR RANGE ABOVE 1.0.	"INSPECTION AND TESTING FORM" IN THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE"	PLATES. COORDINATE WIRK
B. ENCLOSURE TYPE: TOTALLY ENCLOSED, FAN COOLED.	CHAPTER IN NFPA 72. H. FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.	GRADE.
HANGERS AND SUPPORTS	I. PREPARE TEST AND INSPECTION REPORTS AND SUBMIT COPIES FOR RECORD.	1.8 DISCONNECT SWITCHES
A. EQUIPMENT SUPPORTS	J. TFX DEVICES ARE NOT ALLOWED. ALL NEW DEVICES, DETECTORS, PULL STATIONS, ETC., CONNECTED TO THE CITY SYSTEM, SHALL	A. MATERIAL: DISCON
<ol> <li>DESCRIPTION: WELDED, SHOP- OR FIELD-FABRICATED EQUIPMENT SUPPORT MADE FROM STRUCTURAL CARBON-STEEL SHAPES.</li> </ol>	BE IDNET DEVICES, WIRED BACK TO THE NEAREST IDNET PANEL. ALL INSTALLATIONS SHALL MEET ALL APPLICABLE CODES.	NOT FURNISHED BY INDICATED TO BE F
2. EQUIPMENT SUPPORTS SHALL HAVE INTEGRAL BASE PLATE, WOOD NAILER, AND 18 GAUGE GALVANIZED STEEL FLASHING		1. MOTOR CI 2. NON-FUSI
CAP. B. MISCELLANEOUS MATERIALS	<ul> <li>CONDUIT AND BOXES: COMPLY WITH REQUIREMENTS IN DIVISION 26 SECTION "RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS.</li> <li>"FLEXIBLE METAL CONDUIT SHALL NOT BE USED.</li> </ul>	B. ACCESSORIES: SW
<ol> <li>STRUCTURAL STEEL: ASTM A 36/A 36M, CARBON-STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZED.</li> <li>GROUT: ASTM C 1107, FACTORY-MIXED AND -PACKAGED, DRY, HYDRAULIC-CEMENT, NONSHRINK AND NONMETALLIC</li> </ol>	<ol> <li>OUTLET BOXES SHALL BE NO SMALLER THAN 2 INCHES (50 MM) WIDE, 3 INCHES (75 MM) HIGH, AND 2-1/2 INCHES (64 MM) DEEP.</li> </ol>	SPECIFIED OR INDIO 1. ELECTRIC
GROUT: ASTM CTTUP, FACTOR T-MIAED AND -FACKAGED, DRT, HTDRADLC-CEMENT, NONSHRINK AND NONMETALLIC GROUT: SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.	2. MINIMUM CONDUIT SIZE IS 3/4" DIAMETER.	C. CONTROLS: SWITC
a. PROPERTIES: NONSTAINING, NONCORROSIVE, AND NONGASEOUS.	1.3 FIRE ALARM WIRE AND CABLE	PREVENT CLOSING 1. SWITCH S
b. DESIGN MIX: 5000-POUNDS PER SQUARE-INCH (PSI), 28-DAY COMPRESSIVE STRENGTH.	A. GENERAL WIRE AND CABLE REQUIREMENTS: NRTL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760.	
CENTRIFUGAL ROOF VENTILATORS	B. SIGNALING LINE CIRCUITS: TWISTED, SHIELDED PAIR, NOT LESS THAN NO. 18 AWG.	1.9 DISTRIBUTION EQUIPMENT:
A. HOUSING: REMOVABLE, SPUN-ALUMINUM, DOME TOP AND OUTLET BAFFLE; SQUARE, ONE-PIECE, ALUMINUM BASE WITH VENTURI INLET CONE.	<ol> <li>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</li> </ol>	A. ELECTRICAL COMP ELECTRICAL TESTI
1. UPBLAST UNITS: PROVIDE SPUN-ALUMINUM DISCHARGE BAFFLE TO DIRECT DISCHARGE AIR UPWARD, WITH RAIN AND SNOW		APPLICATION.
DRAINS. 2. HINGED SUBBASE: GALVANIZED-STEEL HINGED ARRANGEMENT PERMITTING SERVICE AND MAINTENANCE.	C. NON-POWER-LIMITED CIRCUITS: SOLID-COPPER CONDUCTORS WITH 600-V RATED, 75 DEGREES CELSIUS, COLOR-CODED INSULATION.	B. COMPLY WITH NEM C. COMPLY WITH NEP
C. FAN WHEELS: ALUMINUM HUB AND WHEEL WITH BACKWARD-INCLINED BLADES.	1. LOW-VOLTAGE CIRCUITS: NO. 16 AWG, MINIMUM.	D. PANELBOARD PHAS
D. BELT DRIVES (WHERE APPLICABLE): 1. RESILIENTLY MOUNTED TO HOUSING.	2. LINE-VOLTAGE CIRCUITS: NO. 12 AWG, MINIMUM.	1. MATERIAL a. P
2. FAN SHAFT: TURNED, GROUND, AND POLISHED STEEL; KEYED TO WHEEL HUB.		b. B
<ol> <li>SHAFT BEARINGS: PERMANENTLY LUBRICATED, PERMANENTLY SEALED, SELF-ALIGNING BALL BEARINGS.</li> <li>PULLEYS: CAST-IRON, ADJUSTABLE-PITCH MOTOR PULLEY.</li> </ol>		2. INTERIORS DISTURB A
5. FAN AND MOTOR ISOLATED FROM EXHAUST AIRSTREAM.		3. EQUIPMEN
<ul> <li>ACCESSORIES:</li> <li>VARIABLE-SPEED CONTROLLER: SOLID-STATE CONTROL TO REDUCE SPEED FROM 100 TO LESS THAN 50 PERCENT.</li> </ul>		TO BOX. E. CONDUCTOR CONN
2. DISCONNECT SWITCH: NONFUSIBLE TYPE, WITH THERMAL-OVERLOAD PROTECTION MOUNTED INSIDE OR OUTSIDE FAN		1. MATERIAL
HOUSING, FACTORY WIRED THROUGH AN INTERNAL ALUMINUM CONDUIT. 3. BIRD SCREENS: REMOVABLE, 1/2-INCH (13-MM) MESH, ALUMINUM OR BRASS WIRE.		2. TERMINAT 3. SIZE: LUG
4. DAMPERS: COUNTERBALANCED, PARALLEL-BLADE, BACKDRAFT DAMPERS MOUNTED IN CURB BASE; FACTORY SET TO		CONDUCT
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 /FT² AT 1.0 IN.W.G TESTED ACCORDING TO AMCA STANDARD 500.		4. MAIN AND 5. GROUND L
		J. GROUND L

- LEAKAGE RATE OF 20 CFM /FT<sup>2</sup> AT 1.0 IN.W.G TESTED ACCORDING TO AMCA STANDARD 500.
- 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.
- COMPONENTS SHALL BE SUCH THAT THEY CANNOT BE REMOVED WHEN IN THE LOCKED POSITION.

ROOF CURBS: GALVANIZED STEEL; MITERED AND WELDED CORNERS; 1-1/2-INCH- (40-MM-) THICK, RIGID, FIBERGLASS INSULATION

ITEMS WITH HINGED BASES SHALL BE FURNISHED WITH PADLOCK HASPS FOR PADLOCKING. THE ANCHORING OF THE HASP

1.10 TRANSFORMERS

# RICAL SPECIFICATIONS

ECTRICAL SYSTEM SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE AND ANY OTHER APPLICABLE LOCAL CODES.

HALL CONSIST OF COPPER CONDUCTORS IN CONDUIT. GROUNDING AND BONDING SHALL COMPLY WITH NEC ARTICLE 250. ALL EWAYS SHALL BE GROUNDED.

QUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF.

VIRE SHALL BE THWN FOR ALL EXTERIOR OR POSSIBLE WET LOCATIONS.

## VIRE SHALL BE THWN OR THHN FOR ALL INTERIOR OR DRY LOCATIONS. UILDING WIRE SHALL BE 600 VOLTS COPPER.

VINIMUM WIRE SIZE FOR POWER AND LIGHTING SHALL BE #12 AWG., FOR CONTROLS #14 AWG.

JSE OF ROMEX SHALL NOT BE PERMITTED. TRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRE ROUTING. ANY LENGTHS EXCEEDING 75' SHALL HAVE VOLT CALCULATED AND WIRE SIZES ADJUSTED AS REQUIRED BY CODE.

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.

INDERSLAB OR BELOW GRADE RACEWAYS SHALL BE SCHEDULE 40 PVC CONDUITS WITH RIGID GALVANIZED STEEL "RGS" WS AND RISERS TO ABOVE GRADE OR SLAB.

ONDUITS INSIDE BUILDING SHALL BE 1/2" ELECTRICAL METALLIC TUBING "EMT" MINIMUM. IBLE METAL CONDUIT MAY BE USED FOR FINAL CONNECTION TO LIGHT FIXTURES AND MOTORS 6' MAXIMUM LENGTH ALLOWED. OR INTERMEDIATE GALVANIZED STEEL CONDUIT SHALL BE USED FOR ALL EXTERIOR APPLICATIONS ABOVE GRADE. TITE SHALL BE USED FOR ALL EXTERIOR CONNECTIONS TO EQUIPMENT.

ACEWAYS SHALL BE SUPPORTED FROM ROOF STRUCTURAL MEMBERS PER N.E.C. NO RACEWAYS SHALL BE ATTACHED CTLY TO ROOF DECK.

ACEWAYS SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS OR FLOORS.

/IDE PLASTIC BUSHINGS AT OPEN ENDS OF ALL CONDUITS WITH LOW VOLTAGE WIRING. ALL PENETRATIONS THROUGH WALLS OR FLOOR WITH APPROPRIATE CAULK OR GROUT. SEAL PENETRATIONS THROUGH FIRE D WALLS, FLOORS, OR CEILINGS WITH UL LISTED FIRE STOP COMPOUND. IG 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.

IGHT FIXTURES SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO LIGHT FIXTURE SCHEDULE FOR **IFICATIONS** TRICAL CONTRACTOR SHALL BE RESPONSIBLE TO SUPPORT LIGHT FIXTURES. LIGHT FIXTURES IN LAY-IN CEILING SHALL BE PENDENTLY SUPPORTED WITH WIRE AT ALL FOUR CORNERS OF FIXTURE. ACE DEFECTIVE LAMPS, LED ARRAYS, DRIVERS AND BALLASTS PRIOR TO PROJECT COMPLETION.

## ER EQUIPMENT SHALL BE NEW AND BEAR A UL. LABEL.

RDINATE WIRING DEVICE COLORS WITH ARCHITECT, 20 AMP FEDERAL SPECIFICATION GRADE WITH STAINLESS STEEL COVER ES. COORDINATE FINISH COLOR WITH ARCHITECT. ALL SWITCHES, RECEPTACLES, ETC. SHALL BE HEAVY-DUTY, SPECIFICATION

RIAL: DISCONNECT SWITCHES SHALL BE NEMA TYPE HD (HEAVY DUTY) QUICK-MAKE, QUICK-BREAK DISCONNECT SWITCHES: FURNISHED BY OTHERS WITH EQUIPMENT, OR WHERE REQUIRED BY CODE. SWITCHES SHALL BE NON-FUSIBLE UNLESS ATED TO BE FUSIBLE.

MOTOR CIRCUIT DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED TO MATCH THE MOTOR LOAD. NON-FUSIBLE DISCONNECTS SHALL BE RATED 30 AMPS UNLESS OTHERWISE INDICATED. SSORIES: SWITCH ENCLOSURES SHALL BE RATED NEMA 3R FOR OUTDOOR AND WET LOCATIONS, UNLESS OTHERWISE

IFIED OR INDICATED ON THE DRAWINGS. ELECTRICAL INTERLOCK: SWITCH SHALL BE FURNISHED WITH INTERLOCK CONTACTS. ROLS: SWITCHES SHALL HAVE A DUAL COVER INTERLOCK TO PREVENT DOOR OPENING WITH SWITCH CLOSED AND TO

ENT CLOSING SWITCH WITH DOOR OPEN. SWITCH SHALL BE PAD LOCKABLE IN "OPEN" AND "CLOSED" POSITION.

EQUIPMENT:

TRICAL COMPONENTS, DEVICES, AND ACCESSORIES; LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED TRICAL TESTING AGENCY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND ICATION.

## PLY WITH NEMA PB 1. PLY WITH NFPA 70.

LBOARD PHASE, NEUTRAL, AND GROUND BUSES:

MATERIAL: TIN-PLATED ALUMINUM. a. 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 TO BOX

DUCTOR 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 CONDUCTORS.

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.

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." CIRCUIT DIRECTORY:

1. 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. REQUIREMENTS.

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.

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

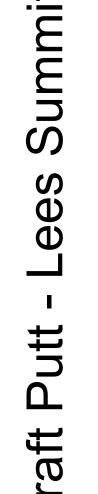
WIRING SHALL BE COPPER ONLY. F. SOUND LEVELS DETERMINED BY NEMA STANDARDS SHALL NOT EXCEED 50 DB.



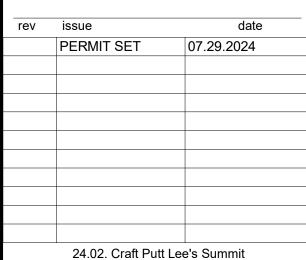




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MEP **SPECIFICATIONS** 



# **PLUMBING 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 THREADED ENDS CONFORMING TO ASME B1.20.1. A. LOCKING DEVICE: INCLUDE LOCKING (TAMPERPROOF) FEATURE.
- 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.
- PROVIDE GAS SHUTOFF VALVES FOR ALL EQUIPMENT. INSTALL DRIPS AT POINTS WHERE CONDENSATE MAY COLLECT. LOCATE WHERE READILY 1.4 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.

## 1.5 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.
- 1.6 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 17 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. 18

## 1.9 PIPING INSTALLATION

- 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 LENGTHS OF PIPE WHEREVER POSSIBLE.
- 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
- SHALL BE USED FOR CORRECTION OF DEFECTIVE JOINTS 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

- A. 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.
- 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 RESTRAINTS ON EXPANSION JOINTS AND FLEXIBLE CONNECTIONS DURING PRESSURE TESTING.
- 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 HEREIN.

## 1.12 DISINFECTION

- 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.

# PLUMBING SPECIFICATIONS

4 40		
1.12	A.	ECTION CLEAN AND DISINFECT WATER DISTRIBUTION PIPING.
	В.	PURGE ALL NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXIS
	C.	REPAIRED, PRIOR TO USE. USE THE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY THE AU
	0.	PRESCRIBED BY THAT AUTHORITY, USE THE PROCEDURE DESCRIBED IN AW
	D.	PREPARE REPORTS FOR ALL PURGING AND DISINFECTING ACTIVITIES.
3		
	A.	ALL PLUMBING FIXTURES, EQUIPMENT AND RELATED ACCESSORIES SHALL B MANNER. ALL WORK AND MATERIAL REQUIRED TO ROUGH-IN, CONNECT UP A
		PROVIDED AS REQUIRED FOR PROPER OPERATION. THIS SHALL INCLUDE PL
		ITEMS FURNISHED UNDER OTHER SECTIONS OR FURNISHED BY THE OWNER MANUFACTURER'S NUMBERS AS TO THE TYPE AND QUALITY REQUIRED.
	B.	ALL STAINLESS STEEL FIXTURES (I.E., ELECTRIC WATER COOLERS, SINKS, ET
		STEEL, WITH BRUSHED SATIN FINISH AND SOUND DEADENING UNDERCOAT.
	C. D.	PLUMBING TRIM UTILIZED SHALL BE PROVIDED WITH RENEWABLE SEATS AND UNLESS OTHERWISE SPECIFIED, EACH LAVATORY SHALL BE PROVIDED WITH
		RISERS; MCGUIRE 8902 ADJUSTABLE, SEMI CAST BRASS P-TRAP (11/4" INLET, 1
	E.	INLET AND 17 GAUGE 11/2" TRAP ARM. PROVIDE MCGUIRE 158WC LOOSE KEY UNLESS OTHERWISE SPECIFIED, EACH SINK SHALL BE PROVIDED WITH: MCG
	L.	MCGUIRE 151 BASKET STRAINER, 11/2" X 4" 17 GAUGE TAILPIECE WITH BRASS
		CAST BRASS P-TRAP (11/2") WITH GROUND SWIVEL JOINT, CLEANOUT PLUG, SI STRAINERS, TAILPIECES AND CONTINUOUS WASTE PIECES FOR MULTIPLE CO
		KEY STRAIGHT STOP SUPPLIES FOR BARRIER FREE LAVATORIES.
	F.	ALL FIXTURES SHALL BE SUBSTANTIALLY SUPPORTED IN AN APPROVED MAN
		FLOOR BASES, BEARING PLATES, SUPPORT ARMS OR RODS AS REQUIRED FC BRACE TO WALL CONSTRUCTION FOR SUBSTANTIAL SUPPORT. CARRIERS SI
		SPACE FOR CARRIERS AND PROVIDE APPROPRIATE CARRIER TO FIT SPACE
		WALLS ARE FINISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A PE BUILDING, FOR THE LOOSENING OF ANY PLUMBING FIXTURE AND ANY SUBSE
		RESULT OF LEAKS IN PIPING. THE CONTRACTOR SHALL PROMPTLY MAKE RE
	G.	CARRIERS AS DEEMED NECESSARY BY THE ARCHITECT/ENGINEER AT NO AD ALL FIXTURES SHALL BE SET TRUE AND LEVEL. INSTALL ALL FIXTURES IN AC
	0.	RECOMMENDED HEIGHTS UNLESS OTHERWISE INDICATED.
	H. I.	FIXTURES THAT ARE WALL HUNG OR BUTT A WALL SHALL HAVE ADJACENT ED ALL SPACES BETWEEN FIXTURES AND FINISHED SURFACES SHALL BE CAULK
	ι.	RESULTING IN A NEAT AND SMOOTH APPEARANCE. SEALANT COLOR SHALL I
	J.	ALL EXPOSED FIXTURE TRIM SHALL BE POLISHED CHROME PLATED BRASS. I
		KITCHEN AREA SHALL BE NO-HUB CAST IRON WITH STAINLESS STEEL PROTE BRASS MATERIALS ARE NOT AVAILABLE.
	K.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND CLEA
	L.	ALL PRECAST RECEPTORS AND BASINS SHALL BE OF STANDARD COLOR AS S MORTAR PER MANUFACTURERS REQUIREMENTS.
4	COMM	IERCIAL, GAS-FIRED, STORAGE, DOMESTIC-WATER HEATERS
	A.	COMMERCIAL, GAS-FIRED, HIGH-EFFICIENCY, STORAGE, DOMESTIC-WATER H
		<ol> <li>SOURCE LIMITATIONS: OBTAIN DOMESTIC-WATER HEATERS FROM S</li> <li>STANDARD: ANSI Z21.10.3/CSA 4.3.</li> </ol>
		<ol> <li>DESCRIPTION: MANUFACTURER'S PROPRIETARY DESIGN TO PROVID</li> </ol>
		<ul> <li>OPERATING CONDITIONS.</li> <li>STORAGE-TANK CONSTRUCTION: ASME-CODE STEEL WITH 150-PSIG</li> </ul>
		a. TAPPINGS: FACTORY FABRICATED OF MATERIALS COMPAT
		b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARF
		EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AN 5. FACTORY-INSTALLED, STORAGE-TANK APPURTENANCES:
		a. ANODE ROD: REPLACEABLE MAGNESIUM.
		<ul> <li>b. DIP TUBE: REQUIRED UNLESS COLD-WATER INLET IS NEAR</li> <li>c. DRAIN VALVE: CORROSION-RESISTANT METAL WITH HOSE-</li> </ul>
		d. INSULATION: R12.5. SURROUND ENTIRE STORAGE TANK EX
		e. JACKET: STEEL WITH ENAMELED FINISH. f. BURNER OR HEAT EXCHANGER: COMPLY WITH UL 795 OR A
		f. BURNER OR HEAT EXCHANGER: COMPLY WITH UL 795 OR A EFFICIENCY, DOMESTIC-WATER HEATERS AND NATURAL-G
		g. TEMPERATURE CONTROL: TEMPERATURE CONTROLS SHA
		ADJUSTMENT FROM 120°F (49°C) OR LOWER TO A MAXIMUI h. SAFETY CONTROLS: AUTOMATIC, HIGH-TEMPERATURE-LIM
		i. COMBINATION TEMPERATURE-AND-PRESSURE RELIEF VAL
		WITH TOTAL RELIEVING CAPACITY AT LEAST AS GREAT AS WORKING-PRESSURE RATING OF DOMESTIC-WATER HEAT
		EXTENDS INTO STORAGE TANK.
15	DOME A.	STIC-WATER HEATER ACCESSORIES DOMESTIC-WATER EXPANSION TANKS:
	Λ.	SOURCE LIMITATIONS: OBTAIN DOMESTIC-WATER HEATERS FROM S
		2. DESCRIPTION: STEEL, PRESSURE-RATED TANK CONSTRUCTED WITH
		DIAPHRAGM. INCLUDE AIR PRECHARGE TO MINIMUM SYSTEM-OPER 3. CONSTRUCTION:
		a. TAPPINGS: FACTORY-FABRICATED STEEL, WELDED TO TAM
		THREAD. b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARF
		INCLUDING EXTENDING FINISH INTO AND THROUGH TANK
	B.	c. AIR-CHARGING VALVE: FACTORY INSTALLED. DRAIN PANS: CORROSION-RESISTANT METAL WITH RAISED EDGE. INCLUDE D
	<b>D</b> .	AND INCLUDE DRAIN OUTLET NOT LESS THAN INPS 3/4 (DN 20) WITH ASKE B1.
	C.	HEAT TRAPS: INCLUDE FITTING OR FIELD-FABRICATED PIPING ARRANGEMEN
		RISERS SERVING STORAGE WATER HEATERS AND STORAGE TANKS NOT HAV SYSTEM.
	D.	GAS SHUTOFF VALVES: ANSI Z21.15/CSA 9.1, MANUALLY OPERATED. FURNISH
	G. H.	GAS PRESSURE REGULATORS: ANSI Z21.18/CSA 6.3, APPLIANCE TYPE. AUTOMATIC GAS VALVES: ANSI Z21.21/CSA 6.5, APPLIANCE, ELECTRICALLY OF
	I.	PRESSURE RELIEF VALVES: INCLUDE PRESSURE SETTING LESS THAN WORKI
		1. GAS-FIRED, DOMESTIC-WATER HEATERS: ANSI Z21.22/CSA 4.4.

- GAS-FIRED, DOMESTIC-WATER HEATERS: ANSI Z21.22/CSA 4.4.
- J. VACUUM RELIEF VALVES: ANSI Z21.22/CSA 4.4.

<u>DNS</u>	FIRE PROTECTION SPECIFICATIONS WATER BASED FIRE SUPPRESSION:									
ARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR	<u>wate</u> 1.1	DESCRIPTION OF WORK	1.13	PRESSURE A. Pi						
D BY THE AUTHORITY HAVING JURISDICTION OR, IN CASE A METHOD IS NOT		<ul> <li>A. PERFORMANCE SPECIFICATION FOR AUTOMATIC SPRINKLER SYSTEMS FOR BUILDINGS.</li> <li>B. WORK INCLUDED:</li> </ul>		S						
RIBED IN AWWA C651. VITIES.		<ol> <li>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:</li> </ol>	1.14	PIPE HANG A. Al Ri						
RIES SHALL BE FURNISHED AND INSTALLED IN A NEAT, FINISHED AND UNIFORM ONNECT UP AND INSTALL SUPPLY, DRAIN, WASTE, SOIL & VENT PIPING SHALL BE		<ul> <li>a. SPRINKLERS AND ACCESSORIES.</li> <li>b. WET PIPE SPRINKLER SYSTEM TO SERVE THE SPACE.</li> <li>C. SCOPE OF THE WORK: THE WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO THE DESIGN AND INSTALLATION OF</li> </ul>	1.15	PIPE SLEE\ A. CO						
INCLUDE PLUMBING FIXTURES, EQUIPMENT AND ACCESSORIES AND INCLUDES THE OWNER. FIXTURES, EQUIPMENT AND ACCESSORIES ARE SPECIFIED BY		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		P/						
QUIRED. RS, SINKS, ETC.) SHALL BE 18 GAUGE, TYPE 302 (18-8) NICKEL BEARING STAINLESS		DRAWINGS. THIS CONTRACTOR SHALL SCHEDULE DELIVERY OF EQUIPMENT AND PIPING AND COMPLETE HIS WORK SO THAT THERE IS NO INTERRUPTION IN THE WORK SCHEDULE.		B. SI SI						
NDERCOAT. E SEATS AND REPLACEABLE INTERNAL WORKING COMPONENTS.		D. 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		FI						
OVIDED WITH: MCGUIRE ST7-LK ANGLE STOPS AND M65 3/8" X 12" FLEXIBLE (11/" INLET, 11/2" OUTLET) WITH GROUND SWIVEL JOINT, CLEANOUT PLUG, SLIP		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		C. SI Af						
LOOSE KEY STRAIGHT STOP SUPPLIES FOR BARRIER FREE LAVATORIES. D WITH: MCGUIRE ST7-LK ANGLE STOPS AND M66 3/8" X 20" FLEXIBLE RISERS;		SHALL BE SEALED AND SIGNED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER, HIRED BY THE FIRE PROTECTION CONTRACTOR.		D. SI E. W						
WITH BRASS LOCKING AND COUPLING NUTS; MCGUIRE 8912 ADJUSTABLE, SEMI OUT PLUG, SLIP INLET AND 17 GAUGE 11/2" TRAP ARM. PROVIDE ADDITIONAL	1.2		4.40	W						
MULTIPLE COMPARTMENT SINKS AS REQUIRED. PROVIDE MCGUIRE 158WC LOOSE S. PROVED MANNER. FURNISH AND INSTALL ADJUSTABLE CARRIERS WITH LEGS,		<ul> <li>A. THE ENTIRE FIRE PROTECTION INSTALLATION SHALL COMPLY FULLY WITH REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL LAWS,CODES AND ORDINANCES.</li> <li>B. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH THE APPLICABLE EDITION OF THE</li> </ul>	1.16	AUXILIARY A. C						
REQUIRED FOR ALL WALL HUNG FIXTURES. ANCHOR CARRIERS TO FLOOR AND CARRIERS SHALL BE REQUIRED TO FIT FIXTURES FURNISHED. VERIFY AVAILABLE		FOLLOWING STANDARDS AND/OR CODES. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.  1. IBC INTERNATIONAL BUILDING CODE	1.17	PIPE APPL						
D FIT SPACE AND BUILDING CONSTRUCTION. INSTALL ALL SUPPORTS BEFORE BLE FOR A PERIOD OF ONE YEAR FOLLOWING FINAL ACCEPTANCE OF THE		2. IFC INTERNATIONAL FIRE CODE 3. NFPA 13 SPRINKLER SYSTEMS		A. IN 40						
D ANY SUBSEQUENT DAMAGE TO THE BUILDING CAUSED BY THE FIXTURE OR AS A TLY MAKE REPAIRS TO THE BUILDING, AND REPLACE OR REPAIR FIXTURE		<ol> <li>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.</li> </ol>	1.18	PIPING TES						
ER AT NO ADDITIONAL COST TO THE CONTRACT. TURES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND AT		C. FLOW TEST: THIS CONTRACTOR IS TO VERIFY AVAILABILITY OF WATER SUPPLY BY PERFORMING AN ACTUAL FLOW TEST TO BE USED IN THEIR HYDRAULIC CALCULATIONS.		A. Al						
ADJACENT EDGES AND SURFACES FACTORY GROUND TRUE AND SQUARE.		<ul> <li>D. THE HYDRAULIC CALCULATIONS SHALL BE BASED ON MAXIMUM 90% OF THE WATER SUPPLY AVAILABLE.</li> <li>E. THE WORK SHALL ALSO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA),</li> </ul>	1 10	B. FI						
LL BE CAULKED AND POINTED SQUARE WITH AN APPROVED SILICONE SEALANT DLOR SHALL BE AS APPROVED BY THE ARCHITECT. IED BRASS. EXPOSED FIXTURE TRIM INCLUDING WASTE AND VENT PIPING IN THE		UL AND THE OWNER'S INSURANCE COMPANY. F. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND LICENSES.	1.19	A. Al						
TEEL PROTECTIVE JACKETING WHERE STANDARD POLISHED CHROME PLATED	1.3	APPROVALS A. BEFORE PROCEEDING WITH ANY FIRE PROTECTION WORK, THE CONTRACTOR SHALL PREPARE DRAWINGS, COMPLETELY		PF						
ON AND CLEANLINESS OF ALL FIXTURES, EQUIPMENT AND ACCESSORIES. D COLOR AS SELECTED BY THE ARCHITECT, AND SET LEVEL IN A BED OF CEMENT		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								
TIC-WATER HEATERS:		THE ARCHITECT FOR APPROVAL.								
TERS FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.	1.4	SUBMITTALS A. PRODUCT DATA: INCLUDE ALL REQUIRED COMPONENTS OF THE WORKING SPRINKLER SYSTEM. B. SHOP DRAWINGS: SUBMIT DRAWINGS WHICH HAVE BEEN PREPARED IN ACCORDANCE WITH NFPA 13 IDENTIFIED AS "WORKING								
VITH 150-PSIG (1035-KPA) MINIMUM WORKING-PRESSURE RATING.		<ul> <li>SHOP DRAWINGS. SUBJUIT DRAWINGS WHICH HAVE BEEN PREPARED IN ACCORDANCE WITH NEPA 13 IDENTIFIED AS WORKING</li> <li>PLANS," INCLUDING HYDRAULIC CALCULATIONS, AND WHICH HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION.</li> <li>SHOP DRAWINGS SHALL BE COORDINATED WITH EQUIPMENT SUPPLIED BY OTHER CONTRACTORS AND THE OWNER.</li> </ul>								
IALS COMPATIBLE WITH TANK. ATTACH TAPPINGS TO TANK BEFORE TESTING. NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING		<ul> <li>D. MAINTENANCE DATA OF ALL COMPONENTS REQUIRED FOR A WORKING SPRINKLER SYSTEM.</li> <li>E. TEST REPORTS AND CERTIFICATES: INCLUDE "CONTRACTOR'S MATERIAL &amp; TEST CERTIFICATE FOR ABOVEGROUND PIPING" AS</li> </ul>								
FITTINGS AND OUTLETS. ES:		DESCRIBED IN NFPA 13. F. FURNISH ONE SET OF PRINTED RECORD DRAWINGS AND ONE SET OF AUTO-CAD DISKETTES. ONE SET OF PRINTS SHALL BE KEPT ON								
ILET IS NEAR BOTTOM OF TANK.		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								
. WITH HOSE-END CONNECTION. AGE TANK EXCEPT CONNECTIONS AND CONTROLS.		ACTUAL INSTALLATION. RECORD DRAWINGS SHALL BE DELIVERED TO ARCHITECT BEFORE FINAL ACCEPTANCE OF BUILDING BY THE OWNER.								
H UL 795 OR APPROVED TESTING AGENCY REQUIREMENTS FOR GAS-FIRED, HIGH- D NATURAL-GAS FUEL.	1.5	QUALITY ASSURANCE A. INSTALLER QUALIFICATIONS: THE CONTRACTOR SHALL BE A LICENSED FIRE PROTECTION SYSTEMS CONTRACTOR, AS REQUIRED BY								
ONTROLS SHALL BE PROVIDED THAT ALLOW FOR STORAGE TEMPERATURE TO A MAXIMUM TEMPERATURE COMPATIBLE WITH THE INTENDED USE.		THE LOCAL OR STATE JURISDICTION, REGULARLY ENGAGED IN THE INSTALLATION OF AUTOMATIC FIRE SPRINKLER SYSTEMS AND FIRE PROTECTION EQUIPMENT.								
ERATURE-LIMIT AND LOW-WATER CUTOFF DEVICES OR SYSTEMS. E RELIEF VALVES: ANSI Z21.22/CSA 4.4. INCLUDE ONE OR MORE RELIEF VALVES		B. 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.								
AS GREAT AS HEAT INPUT, AND INCLUDE PRESSURE SETTING LESS THAN NATER HEATER. SELECT ONE RELIEF VALVE WITH SENSING ELEMENT THAT	1.6	SEQUENCING AND SCHEDULING								
		<ul> <li>A. SCHEDULE ROUGH-IN INSTALLATIONS WITH INSTALLATIONS OF OTHER BUILDING COMPONENTS.</li> <li>B. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING OPENING LOCATIONS WITH THE G.C. AND CUTTING,</li> <li>CODE DUIL INC. OR OLDER WITH THE OPENING FOR DUPE FOR THE INSTALLATION OF THE DUIL DUP FOR THE OPENING.</li> </ul>								
TERS FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. RUCTED WITH WELDED JOINTS AND FACTORY-INSTALLED. BUTYL-RUBBER		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								
STEM-OPERATING PRESSURE AT TANK.		SPECIFICATIONS.								
LDED TO TANK BEFORE TESTING AND LABELING. INCLUDE ASME B1.20.1 PIPE	1.7	GUARANTEE A. THE CONTRACTOR GUARANTEES ALL FIRE PROTECTION WORK AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL AND								
NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, OUGH TANK FITTINGS AND OUTLETS.		THAT ALL PIPING IS FREE FROM FOREIGN MATERIAL, OBSTRUCTIONS, HOLES, OR BREAKS OF ANY NATURE. B. THE CONTRACTOR GUARANTEES THE PROPER CIRCULATION AND/OR DRAINAGE OF FLUID IN EACH PIPING SYSTEM.								
E. INCLUDE DIMENSIONS NOT LESS THAN BASE OF DOMESTIC-WATER HEATER, TH ASME B1.20.1 PIPE THREADS.		C. 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.								
RRANGEMENT COMPLYING WITH ASHRAE/IESNA 90.1 7.4.6 ON VERTICAL PIPE NKS NOT HAVING INTEGRAL HEAT TRAPS AND SERVING A NONRECIRCULATING	1.8	PIPE AND TUBING MATERIALS A. PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM DESIGNATION A-53.								
ED. FURNISH FOR INSTALLATION IN PIPING.		<ul> <li>PIPING BELOW GRADE SHALL BE DUCTILE IRON AWWA C151, COPPER TYPE "K" OR PVC AWWA C900 CLASS 150.</li> </ul>								
TYPE. TRICALLY OPERATED, ON-OFF AUTOMATIC VALVE.	1.9	FITTINGS A. MALLEABLE-IRON THREADED FITTINGS: ANSI B16.3, CLASS 150, STANDARD PATTERN, FOR THREADED JOINTS OR CAST IRON								
THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER. SSA 4.4.		THREADED FITTINGS CLASS 125. THREADS SHALL CONFORM TO ANSI B1.20.1. B. GROOVED MECHANICAL FITTINGS: ASTM A 536, GRADE 65-45-12 DUCTILE IRON; ASTM A 47 GRADE 32510 MALLEABLE IRON; OR ASTM								
		A53, TYPE F OR TYPES E OR S GRADE B FABRICATION STEELFITTINGS WITH GROOVES OR SHOULDERS DESIGNED TO ACCEPT GROOVED END COUPLINGS.								
		C. 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 ROLLED- GROOVED PIPE AND FITTINGS.								
	1.10	AUTOMATIC SPRINKLERS								
		A. 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.								
		B. 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.								
		C. SPRINKLER FINISH SHALL BE PLAIN BRASS OR BRONZE FOR UNFINISHED AREAS AND POLISHED CHROME PLATED IN FINISHED SPACES.								
		<ul> <li>D. TEMPERATURE RATINGS AND WORKING PRESSURES FOR SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA.</li> <li>E. SPRINKLER QUANTITY, TYPE AND LOCATION SHALL BE AS REQUIRED BY HYDRAULIC CALCULATIONS.</li> <li>F. ACCESSORIES</li> </ul>								
		<ul> <li>ACCESSORIES</li> <li>1. ESCUTCHEONS, COVER PLATES AND APPLICABLE TRIM SHALL BE PROVIDED FOR ALL THROUGH-WALL AND THROUGH- CEILING TYPE SPRINKLER INSTALLATIONS IN FINISHED SPACES.</li> </ul>								
	1.11	2. PROVIDE SPRINKLER GUARDS FOR ALL SPRINKLERS SUBJECT TO DAMAGE IN ACCORDANCE WITH NFPA. 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.								
		<ol> <li>GATE VALVES 2" AND SMALLER SHALL HAVE BRONZE BODIES, BRONZE TRIM, WEDGE DISC, RISING STEM, OS&amp;Y PATTERN AND SCREWED ENDS. VALVES SHALL BE CAPABLE OF BEING REPACKED UNDER PRESSURE, WITH VALVE WIDE OPEN. BALL VALVES, MAY DE SUBSTITUED IN THE DIAGE OF SATE VALVES FOR 2" AND SMALLED.</li> </ol>								
		VALVES MAY BE SUBSTITUTED IN THE PLACE OF GATE VALVES FOR 2" AND SMALLER. 2. 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								
		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. 3. 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.								
		4. 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 EUL LINE ATTACHMENT WITH STRAINER								
		DRAIN LINE, AND FILL LINE ATTACHMENT WITH STRAINER. 5. DRAIN AND TEST VALVES SHALL BE GLOBE OR ANGLE VALVES. 6. MAIN SERVICE VALVE INSIDE OF BUILDING AND ALL SPRINKLER SYSTEM CONTROL VALVES SHALL BE OS&Y GATE VALVES								
		S. ANALY SETTING THE TRADE OF STEPHY AND ALL OF MALLER OF THE OTHER OWNERS AND THE DE VOOL WALLED OWNERS AND THE OWNERS AND THE OTHER OWNERS AND THE OWNERS								

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.

1.12 ALARM CHECK VALVE

- 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.

# **PROTECTION SPECIFICATIONS**

URE GAUGES PROVIDE UL APPROVED TYPE PRESSURE GAUGES. GAUGES SHALL HAVE 31/2" 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.

## ANGERS AND SUPPORTS

ALL HORIZONTAL PIPE HANGERS SHALL BE UL APPROVED ADJUSTABLE STEEL RING HANGERS SPACED IN ACCORDANCE WITH NFPA REQUIREMENTS. ALL VERTICAL PIPES SHALL BE SUSPENDED WITH UL APPROVED STEEL RISER CLAMPS.

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, 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 WATERTIGHT.

## ARY 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.

## PPLICATIONS

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 21/2" AND LARGER.

## S TESTS

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

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

TION 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 THE ARCHITECT.



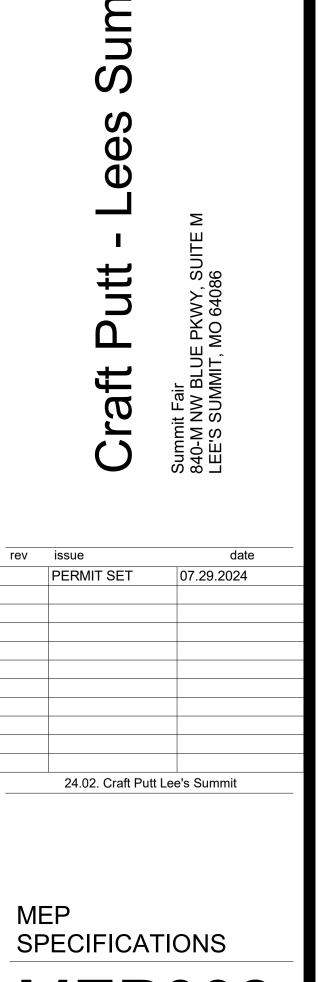
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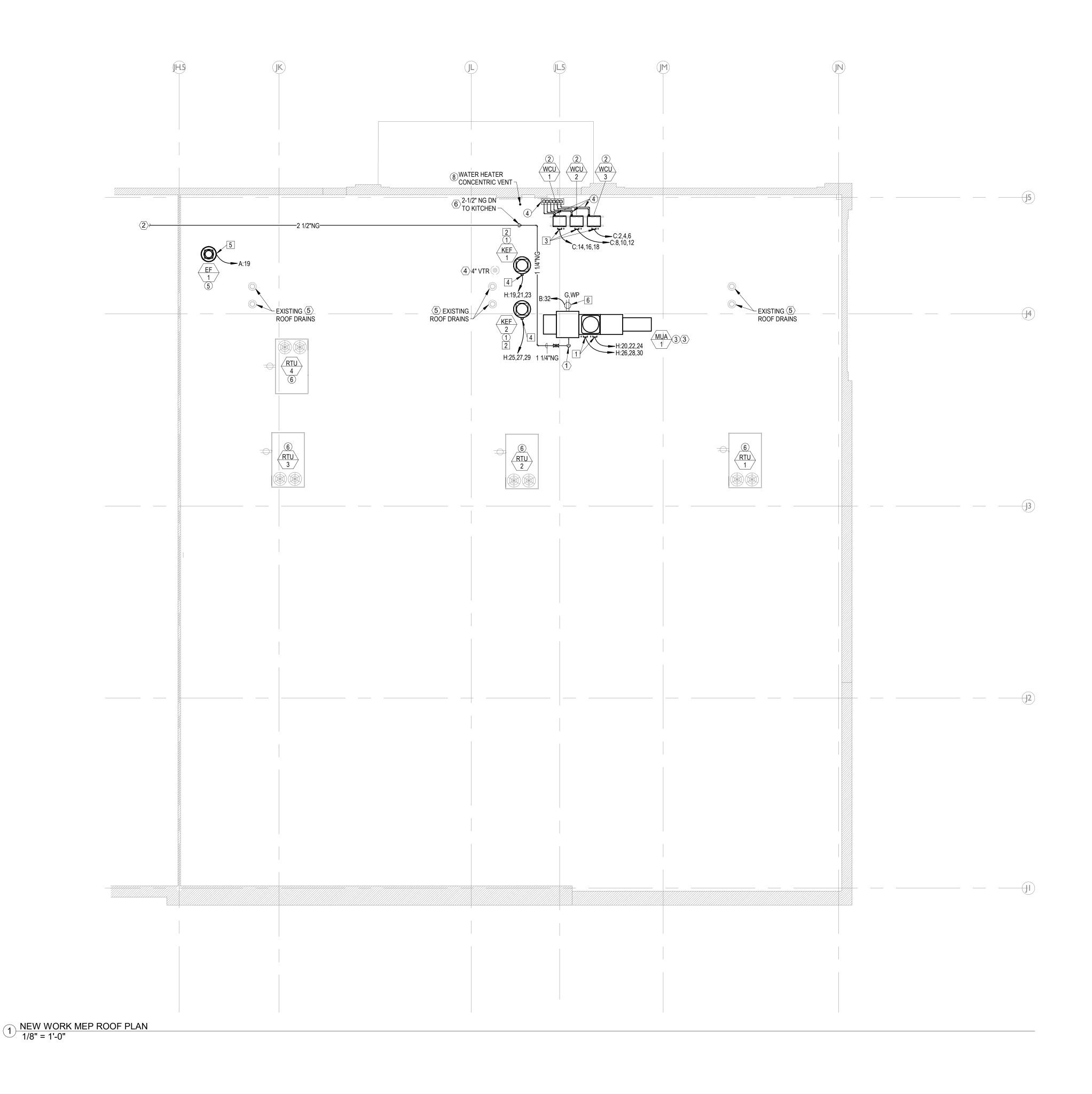


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MO CERTIFICATE OF AUTHORITY MO #1999137647





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- 2. COORDINATE WITH JOIST LOCATIONS BEFORE CREATING NEW PENETRATIONS IN ROOF. PROVIDE STRUCTURAL FRAMING AROUND ALL NEW ROOF PENETRATIONS PER STRUCTURAL.
- 3. SEE PIPE MATERIAL SCHEDULE ON SHEET P600 FOR NATURAL GAS PIPING REQUIREMENTS.
- 4. COORDINATE WITH STRUCTURAL ENGINEER ON INSTALLATION OF NEW EQUIPMENT.
- 5. PROVIDE GAS PIPE SUPPORTS AT A MAXIMUM OF EVERY 8'-0" O.C. SEE DETAIL 9/P500 FOR TYPICAL ROOF GAS PIPE SUPPORT.
- 6. CONTRACTOR SHALL ENSURE ALL INTAKES ON ROOFTOP UNITS AND MAKE-UP AIR UNITS ARE A MINIMUM OF 10'-0" AWAY FROM EXHAUST FANS, PLUMBING VENTS AND GAS WATER HEATER FLUES.

# MECHANICAL PLAN NOTES: #

- 1. INSTALL EXHAUST FAN ON ROOF CURB. SEE DETAILS 6/M500 AND 7/M500 FOR KITCHEN HOOD EXHAUST FAN DETAILS. EXHAUST FAN AND CURB FURNISHED BY KITCHEN EQUIPMENT VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- 2. PLACE CONDENSING UNIT ON EQUIPMENT RAILS. INSTALL PER 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 INSTALLED BY MECHANICAL CONTRACTOR.
- 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 INSTALLED BY MECHANICAL CONTRACTOR.
- 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 REFRIGERANT PIPE PENETRATION DETAIL.
- 5. INSTALL EXHAUST FAN ON ROOF CURB. SEE DETAIL 8/M500 FOR EXHAUST FAN DETAILS.
- EXISTING ROOFTOP UNIT TO REMAIN. SEE ROOFTOP UNIT SCHEDULE ON SHEET M600 FOR REBALANCING OF AIRFLOWS.
- 7. NEW GAS WATER HEATER CONCENTRIC VENT TERMINATION. SEE DETAIL 4/M500.

# ELECTRICAL PLAN NOTES: #

- 1. PROVIDE 480V, 3-PHASE CONNECTION TO INTEGRAL DISCONNECT SWITCHES ASSOCIATED WITH MAKE-UP AIR UNIT FAN AND CONDENSER. VERIFY LOCATIONS WITH KITCHEN EQUIPMENT VENDOR.
- 2. PROVIDE INTERLOCK WIRING WITH GREASE HOOD CONTROLS AND INTERLOCK WITH ANSUL SYSTEM TO SHUT-DOWN UNIT(S) UPON ACTIVATION OF ANSUL SYSTEM. INTERLOCK WITH FIRE ALARM CONTROL PANEL TO SHUT DOWN UPON ACTIVATION OF SYSTEM.
- 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 SUPPLIER.
- 4. PROVIDE 480V, 3-PHASE CONNECTION TO INTEGRAL DISCONNECT SWITCH FOR KITCHEN EXHAUST FAN. VERIFY LOCATIONS WITH KITCHEN EQUIPMENT VENDOR.
- 5. PROVIDE 120V CONNECTION TO INTEGRAL DISCONNECT SWITCH ASSOCIATED WITH EXHAUST FAN.
- 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.

# PLUMBING PLAN NOTES: (#)

- 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 ROOFTOP EQUIPMENT GAS CONNECTION DETAIL.
- 2. CONNECT 2-1/2" NG PIPE TO EXISTING PIPE STUB-UP THROUGH ROOF. INSTALL NEW UTILITY GAS METER ON EXISTING HEADER. COORDINATE WITH GAS UTILITY COMPANY.
- 3. TRAP AND PIPE MECHANICAL EQUIPMENT CONDENSATE PER DETAIL 10/P500. ROUTE DRAIN PIPE TOWARDS NEAREST ROOF DOWNSPOUT, A MINIMUM OF 10-FEET AWAY FROM UNIT.
- 4. EXISTING VENT THRU TO ROOF TO REMAIN.
- 5. EXISTING ROOF DRAINS TO REMAIN.
- 6. SEE DETAIL 8/P500 FOR TYPICAL GAS PIPE ROOF PENETRATION DETAIL.

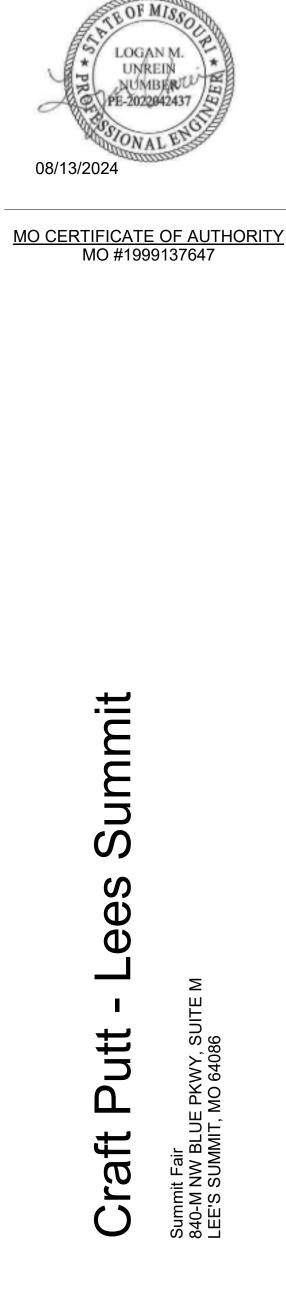
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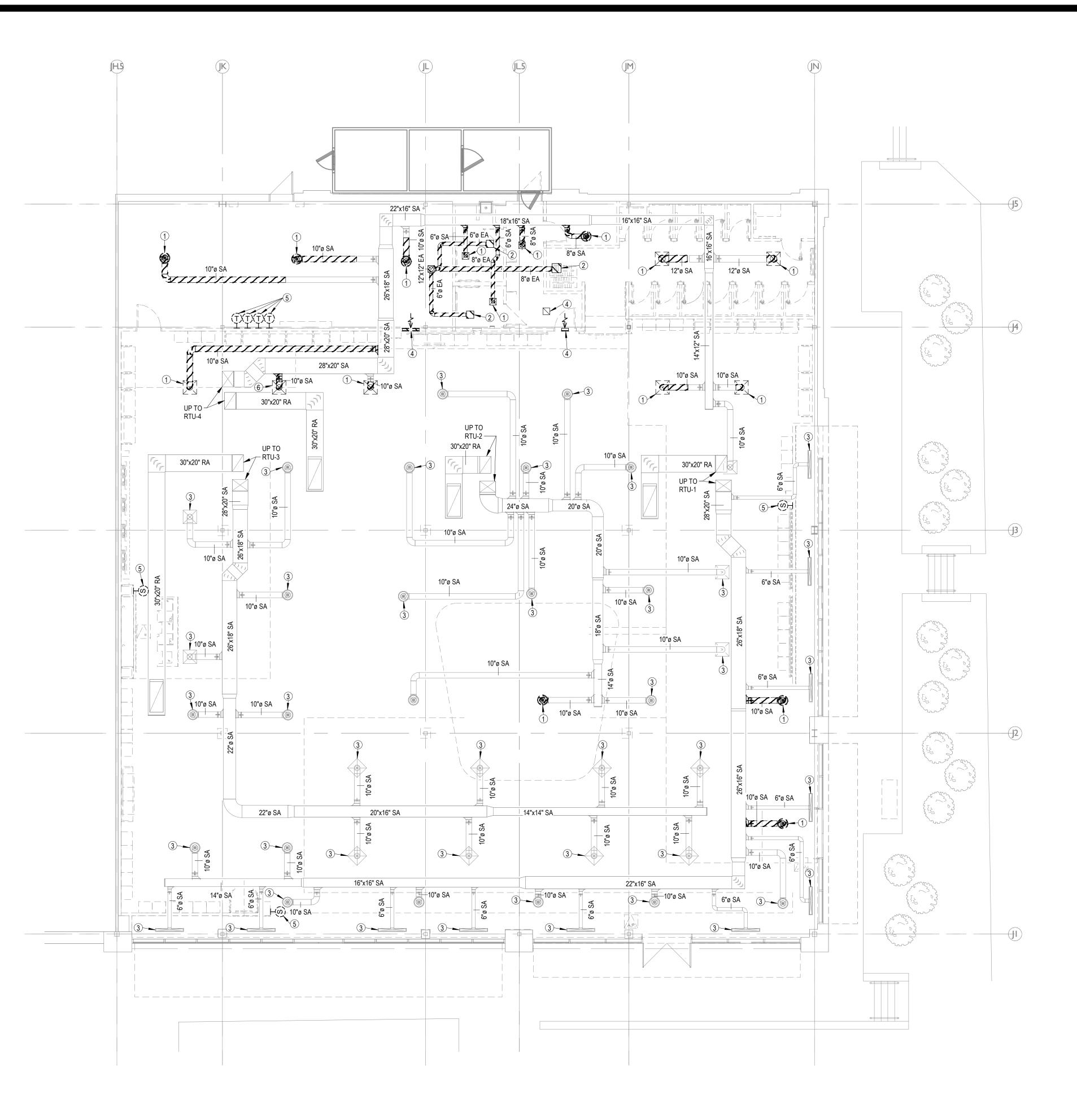


issue	date
PERMIT SET	07.29.2024
24.02. Craft Putt Le	e's Summit
	PERMIT SET

MEP NEW WORK ROOF PLAN MEP101

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

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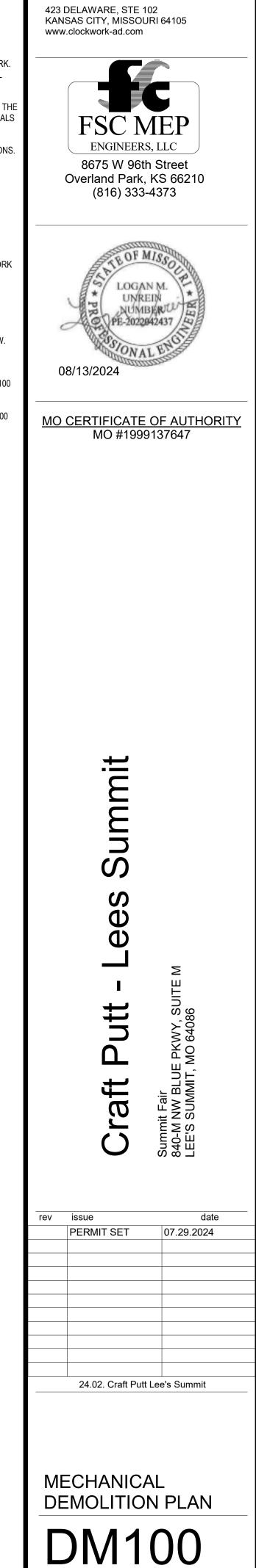


# **GENERAL NOTES**

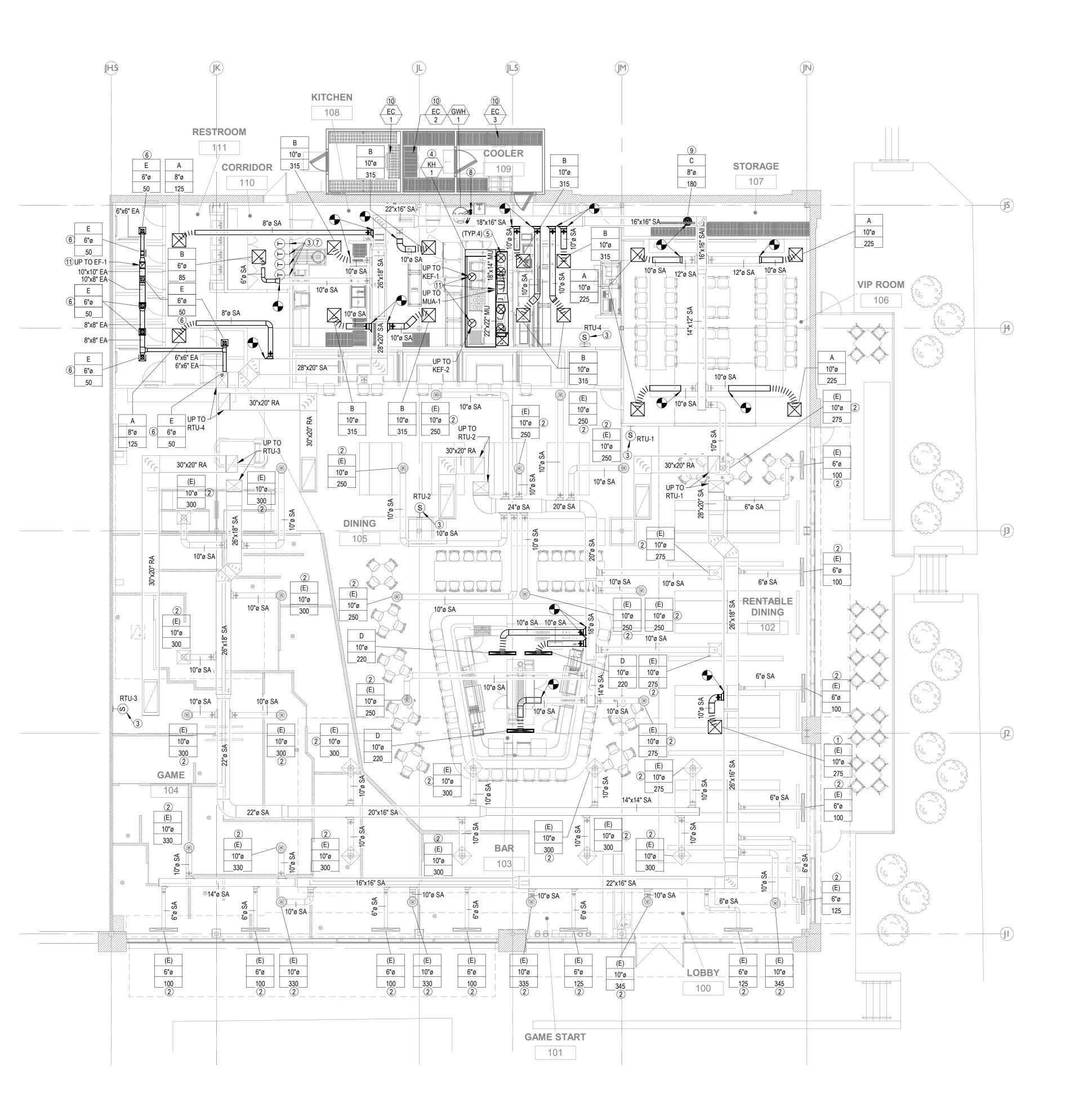
- THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
- 2. CONTRACTOR SHALL VERIFY EXISTING DUCTWORK SIZE AND LOCATIONS
- 3. CONTRACTOR SHALL PATCH ANY NEW/UNUSED HOLES IN EXISTING DUCTWORK CREATED BY DEMOLITION AIR TIGHT.

# PLAN NOTES: #

- REMOVE EXISTING SUPPLY AIR TERMINAL. REMOVE BRANCH DUCTWORK BACK TO MAIN TRUNK DUCT AS SHOWN. SEE SHEET M2 FOR NEW LOCATION.
- 2. REMOVE EXISTING EXHAUST FAN, CONTROLS AND ALL ASSOCIATED EXHAUST DUCTWORK.
- 3. EXISTING SUPPLY DIFFUSER TO REMAIN. MAINTAIN EXISTING AIRFLOW.
- 4. REMOVE EXISTING RETURN AIR GRILLE.
- 5. REMOVE AND RELOCATE EXISTING CONTROL DEVICE. PSEE SHEET M100 FOR NEW LOCATION.
- 6. REMOVE AND RELOCATE EXISTING SUPPLY DIFFUSER. SEE SHEET M100 FOR NEW LOCATION.



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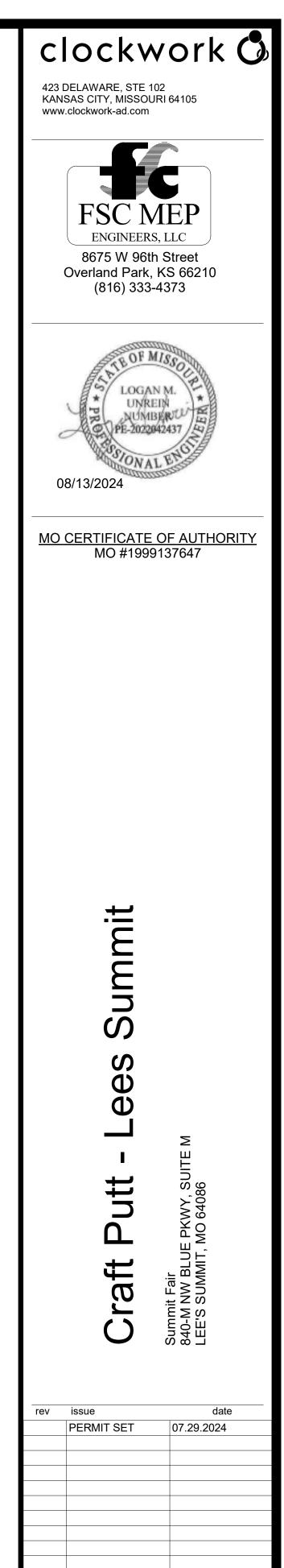
1 NEW WORK MECHANICAL PLAN 1/8" = 1'-0"

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- 2. DUCT SIZES SHOWN ARE AIR OPENING SIZE.
- 3. SEE SHEET 1/M500 FOR TYPICAL FLEXIBLE CONNECTION TO AIR INLET/OUTLET DETAIL.

# PLAN NOTES: (#)

- 1. RELOCATED SUPPLY AIR TERMINAL. BALANCE AIRFLOW AS NOTED. SEE SHEET DM100 FOR ADDITIONAL INFORMATION.
- 2. EXISTING SUPPLY DIFFUSER TO REMAIN. BALANCE AIRFLOW AS NOTED.
- RELOCATED CONTROL DEVICE. SEE SHEET DM100 FOR ADDITIONAL INFORMATION.
- 4. NEW KITCHEN HOOD AND PERFORATED SUPPLY PLENUM (PSP) FURNISHED BY KITCHEN VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE WITH KITCHEN EQUIPMENT VENDOR PRIOR TO INSTALLATION OF MAKE-UP AIR AND EXHAUST DUCTWORK.
- PROVIDE 16" ROUND TAKE-OFF WITH INTEGRAL DAMPER TO BOTTOM OF MAKE-UP AIR DUCTWORK. PROVIDE AND INSTALL FLEX DUCT AND CONNECT TO PERFORATED SUPPLY PLENUM SUPPLY CONNECTION. PROVIDE ROUND TO RECTANGULAR TRANSITION AS REQUIRED AS PSP INLET.
- 6. INSTALL MANUAL VOLUME DAMPER IN DUCT DROP DOWN TO GRILLE IN ACCESSIBLE LOCATION.
- 7. INSTALL FOUR (4) RELOCATED PROGRAMMABLE THERMOSTAT CONTROLS, ONE FOR EACH RTU ON WALL IN CORRIDOR 110. COORDINATE FINAL LOCATION WITH TENANT/ARCHITECT, LIGHT SWITCHES AND OTHER DEVICES ON WALL. TEMPERATURE SENSING TO BE DEACTIVATED FOR THERMOSTAT. USE TEMPERATURE SENSOR LOCATED IN THE SPACE FOR TEMPERATURE SENSING.
- 8. INSTALL NEW TWO (2) 3" ROUND PVC WATER HEATER FLUES FROM INTAKE AND EXHAUST CONNECTIONS FROM WATER HEATER UP TO CONCENTRIC VENT ON TEH ROOF. SEE SHEET MEP101 FOR ADDITIONAL INFORMATION.
- 9. INSTALL PER DETAIL 9/M500.
- 10. WALK-IN EVAPORATOR COIL PROVIDED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY MECHANICAL CONTRACTOR.
- 11. PROVIDE TRANSITION AS REQUIRED FROM ROOFTOP EQUIPMENT INLET/OUTLET TO CONNECT TO NEW DUCTWORK.

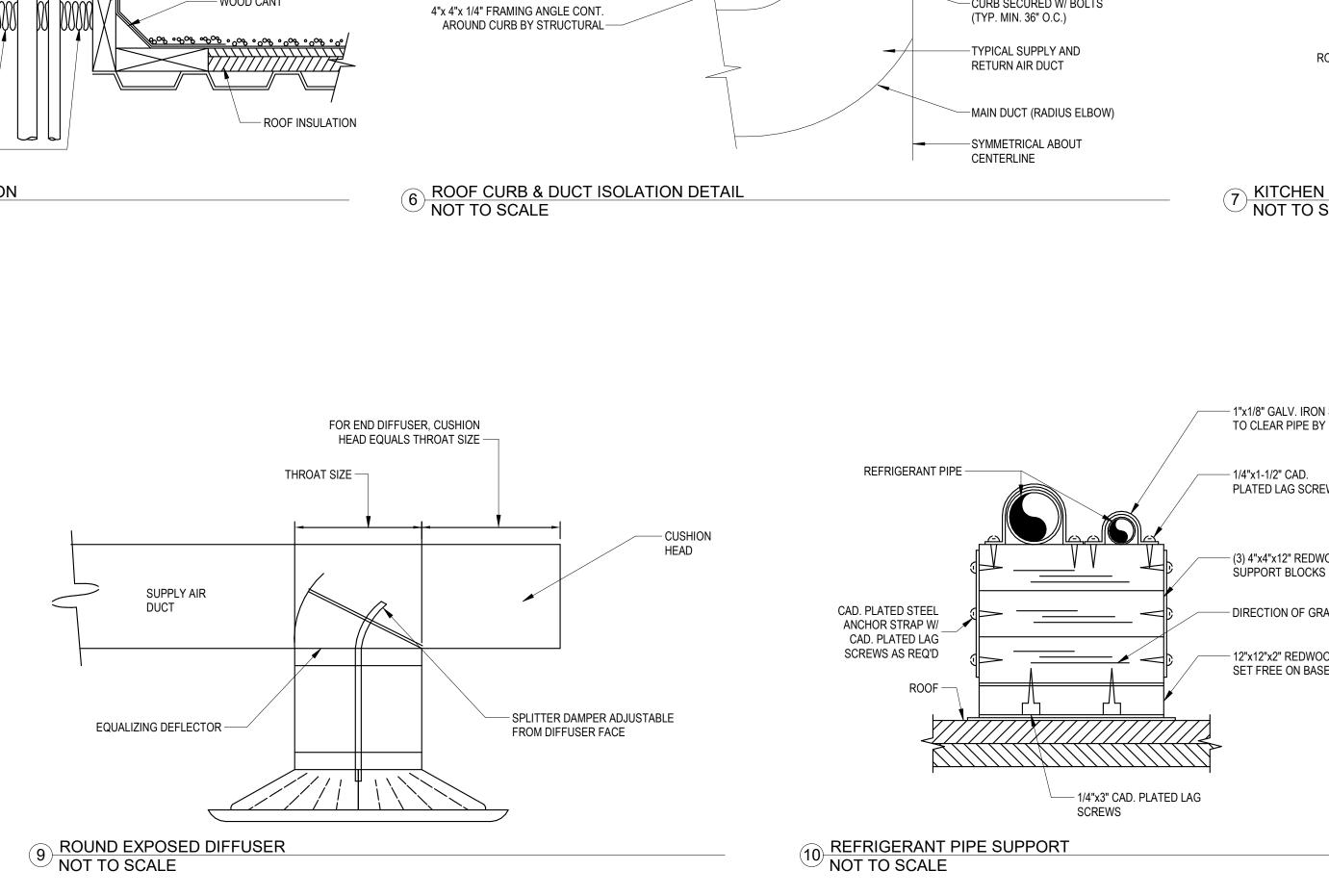


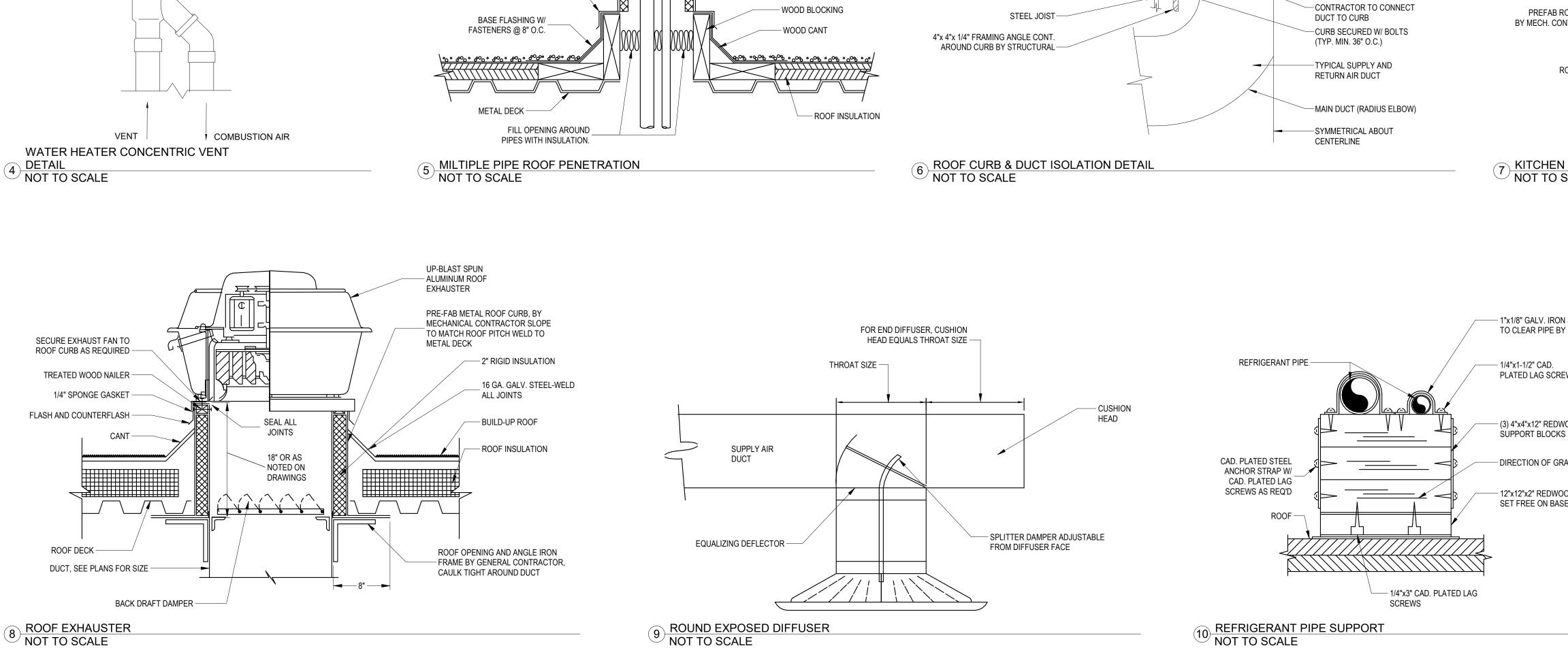
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MECHANICAL NEW WORK PLAN



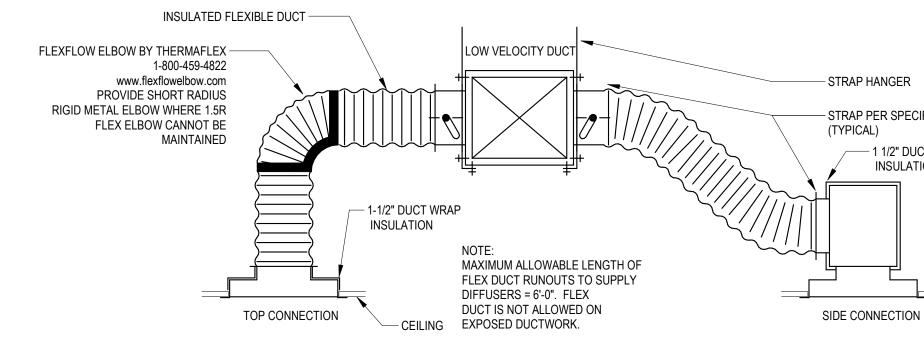
# NOT TO SCALE





## FLEXIBLE DUCT CONNECTION TO AIR OUTLET/INLET NOT TO SCALE

VENT



12" MIN. CLEARANCE ABOVE

- CONCENTRIC

VENT BRACE

MAXIMUMOF 24" ABOVE ROOF

HIGHESTANTICIPATED SNOW LEVEL.

# - STRAP PER SPECIFICATIONS - 1 1/2" DUCT WRAP INSULATION

- Slope top @ 1/4"

PER FOOT

REINFORCED INSULATED

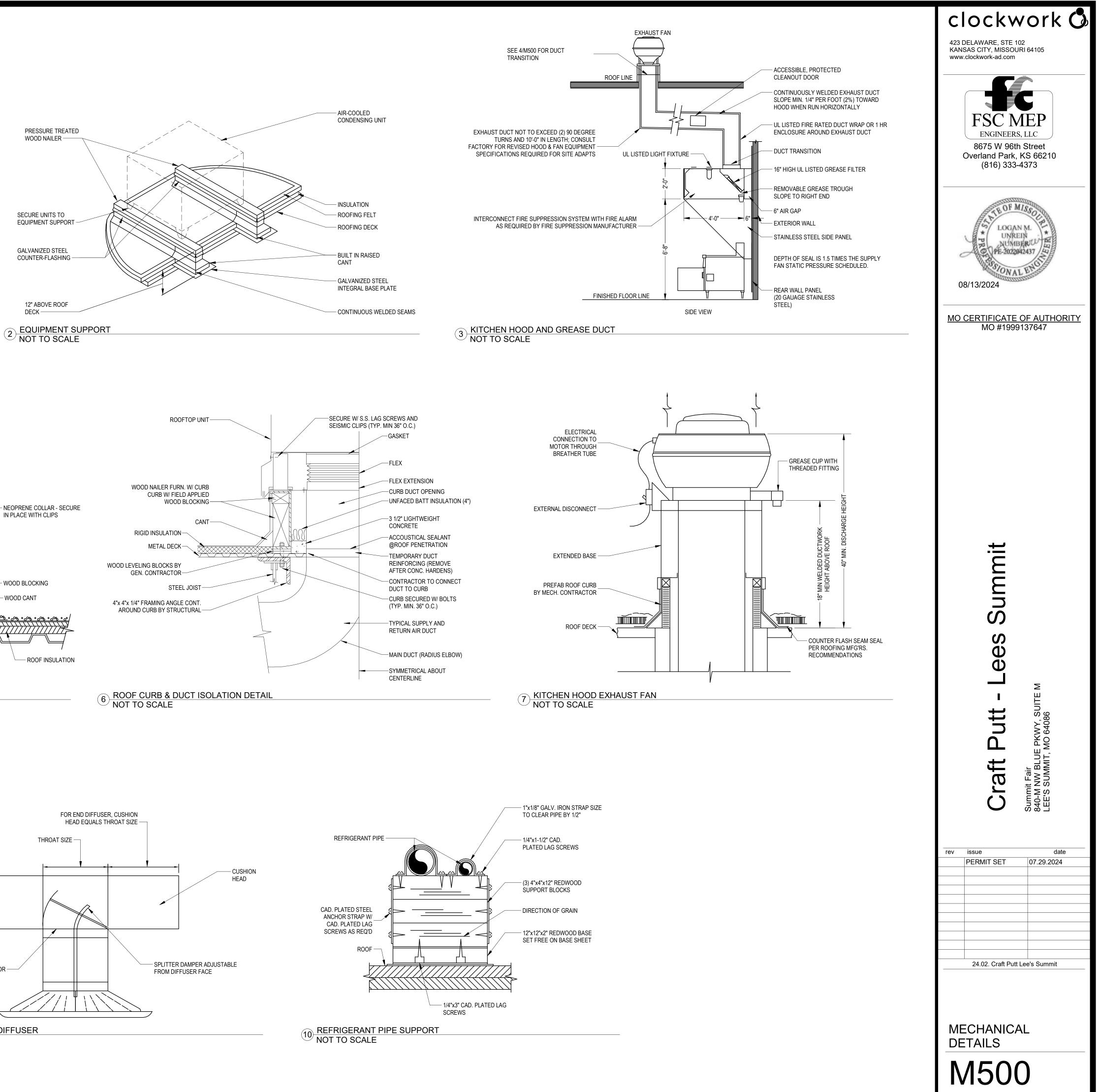
ALL JOINTS, POSITION TO

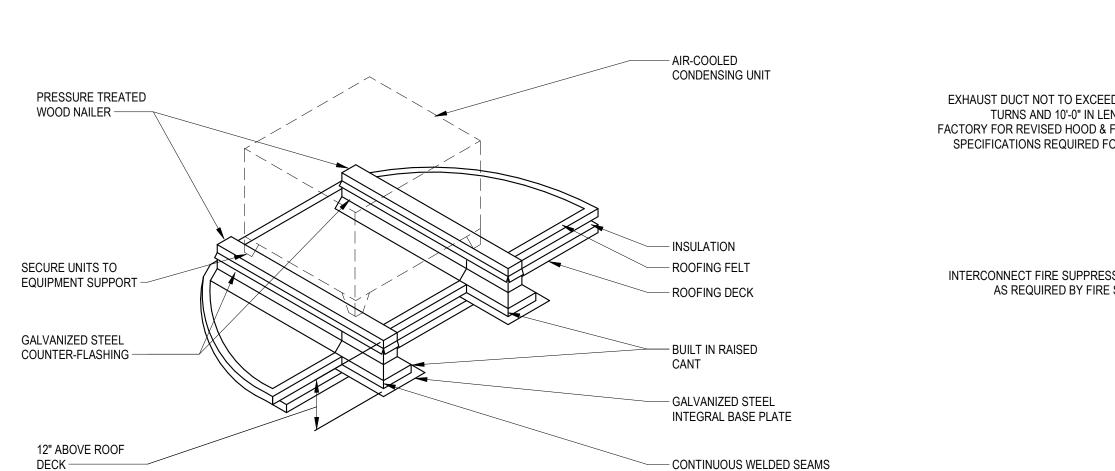
COUNTERFLASHING WITH

FASTENERS @ 24" O.C.

SHEET METAL - CAULK

SHED WATER





						MAK	E-UP	AIR L	JNIT	(MUA	A) SCH	IEDUL	E
					AIR FLOV	/			HE	ATING		FAN	ΝE
			CFM	CFM					CARAC	ITY MBH		VOLTAGE/	
TAG	MANUFACTURER	MODEL	DESIGN	MIN.	HP	RPM	ESP (IWG)	TYPE	CAPAC		EFFICIENCY	PHASE	<sub> </sub> F
			DESIGN	IVIIIN.					INPUT	OUTPUT			1
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	
NOTES:													

1. PROVIDED WITH DISCHARGE AIR TEMPERATURE SENSOR (FIELD ADJUSTABLE) AND AC INTERLOCK RELAY CONTROL FROM KITCHEN EXHAUST HOOD ON/OFF SWITCH (FURNIS 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	<b>(ISTI</b>	NG F	ACKA	GE	D RO	OFTO		S (RTU	I)					
			E	VAPORATO	)R							HEATING			EL	ECTRICA	L	
Tag	MANUFACTURER	MODEL	CF SA	-M OA	HP	OD AMB	CAPACITY MBH (NET) TOTAL	NOM. TONS	NO. COMP./ STAGES	EER/ SEER @ AHRI	TYPE	HEATING STAGES	INPUT (KW)	OUTPUT (MBH)	VOLTAGE/ 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
NOTES	1		1	1	1	1		1		1		1	1	1	I		1	

NOTES: 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.

				RO	OFTOP EX	HAUST FAN	1											KITCHEN H	DOD				
TAG	MANUFACTURER	MODEL	CFM	ESTIMATED ESP (IN W.G.)			E	LECTRICAL			WEIGHT (LBS)	RPM	NOTES	TAG	MANUFACTURER	MODEL	EXHAUST CFM	SUPPLY CFM	EA OPENING DIA.	SUPPLY OPENINGS	ESTIMATED ESP (IN W.G.)	WEIGHT (LBS)	NOTES
						VOLTAGE	PHASE	FLA	MCA	MOCP									DIA.				
KEF-1	CAPTIVEAIRE	DU85HFA	1575	1.5	3/4	460	3	1.3	2.3	15	109	1507	1,2,5	KH-1	CAPTIVEAIRE	5424 ND-2-PSP-F	3150	2520	(0) 1 4"	(4) 8"x 36"	0.872	1130	3,4
KEF-2	CAPTIVEAIRE	DU85HFA	1575	1.5	3/4	460	3	1.3	2.3	15	109	1507	1,2,5		CAPTIVEAIRE	5424 ND-2-PSP-F	3150	2520	(2) 14"	(4) 0 X 30	0.072	1130	 
TES:																							

	AIR INLET/OUTLET SCHEDULE											
TAG	MANUFACTURER	MODEL	TYPE	FACE SIZE	NOTES							
А	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							
E	TITUS	PAR-AA	PERFORATED ALUMINUM EXHAUST GRILLE	12x12	1,2,3							
NOTEO												

NOTES 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.

# **BUILDING AIR BALANCE SCHEDULE**

	SUPPLY AIR	OUTSIDE	EXHAUST AIR	RETURN AIR	PRESSURIZATION	
TAG	CFM	AIR CFM	CFM	CFM	AIR CFM	NOTES
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	
NOTES:		1	1			1

NOTES: 1. EXAUST FAN SIZED FOR 75CFM PER FLUSHABLE FIXTURE PER IMC CHAPTER 4 TABLE 403.3.1.1. 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.

RT	U-1	OU	T

Index         SOFT         CFM/SGFT         #10000         PEOPLE         CFM/sGFT         #10000         PEOPLE         CFM/sGFT         #10000         PEOPLE         CFM/sGFT         #1147           101         GAME START         LOBBY         216         0.06         10         2         6         0.8         29           105         DINING (7/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-1 TOTALS         2407         -         -         134         -         -         1685           RTU-1 TOTALS         2407         -         -         134         -         -         1685           RTU-1 TOTALS         2407         -         -         134         -         -         1685           RTU-1 TOTALS         2407         -         -         134         -         -         1685           RTU-1 TOTALS         2407         -         -         134         -         -         1685           103         BAR         KITCHENS (COKING)         Az         Ra         OCCUPANT         Pz         Rp         Ez         BASELINE RA           104	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az	Ra	OCCUPANT DENSITY	Pz	Rp	Ez	BASELINE RATE	
102         RENTABLE DINING         DINING ROOM         1304         0.18         70         91         7.5         0.8         1147           101         GAME START         LOBBY         LOBBY         216         0.06         10         2         5         0.8         29           105         DINING (16)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-1 TOTALS         2407         -         -         134         -         1685           RTU-1 TOTALS         2407         -         -         1695           RTU-22 OUTSIDE AIR CALCULATIONS           RTU-3 COUTSIDE AIR CALCULATIONS           NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         P2         Rp         Ez         BASELINE RA Voz           NUMBER         ROOM NAME         CCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         P2         Rp         Ez         BASELINE RA Voz           RTU-3 OUTSIDE AIR CALCULATIONS				SQFT	CFM/SQFT	#/1000	PEOPLE	CFM/person		CFM	
100         LOBBY         LOBBY         354         0.06         10         4         5         0.8         52           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-1 TOTALS         2407         -         -         134         -         -         1695           RTU-1 TOTALS         CCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         P2         Rp         Ez         BASELINE RA Voz           NUMBER         ROOM NAME         CCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         P2         Rp         Ez         BASELINE RA Voz           103         BAR         KITCHENS (COOKING)         450         0.12         20         9         7.5         0.8         1410           RTU-2 TOTALS         2050         -         -         121         -         -         1562           RTU-2 TOTALS         2050         -         -         121         -         -         1562           RTU-2 TOTALS         2050         -         -         121         - <td>102</td> <td>RENTABLE DINING</td> <td>DINING ROOM</td> <td>1304</td> <td>0.18</td> <td>70</td> <td>91</td> <td></td> <td>0.8</td> <td>1147</td>	102	RENTABLE DINING	DINING ROOM	1304	0.18	70	91		0.8	1147	
105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-1 TOTALS         2407         -         134         -         .         1695           RTU-1 TOTALS         CLASSIFICATION         2407         -         134         -         1695           RTU-1 TOTALS         2407         -         134         -         1695           RTU-2 OUTSIDE AIR CALCULATIONS           ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         PZ         Rp         EZ         BASELINE RA Voz           103         BAR         KITCHENS (COOKING)         450         0.12         20         9         7.5         0.8         1410           ROOM INAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         PZ         Rp         EZ         BASELINE RA           NUMBER         COOM NAME         OCCCUPA	101	GAME START	LOBBY	216	0.06	10	2	5	0.8	29	
RTU-1 TOTALS         2407         -         134         -         1695           RTU-1 TOTALS         RTU-2 OUTSIDE AIR CALCULATIONS           ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANCY OCCUPANCY (LASSIFICATION         SOFT         CFM/SOFT         #/1000         PEOPLE         CFM/PEDPLE         CFM/PEDPL <td>100</td> <td>LOBBY</td> <td>LOBBY</td> <td>354</td> <td>0.06</td> <td>10</td> <td>4</td> <td>5</td> <td>0.8</td> <td>52</td>	100	LOBBY	LOBBY	354	0.06	10	4	5	0.8	52	
RTU-2 OUTSIDE AIR CALCULATIONS           ROOM NAME         OCCUPANCY CLASSIFICATION         Az CLASSIFICATION         Az SOFT         Ra CFMSOFT         OCCUPANT PEOPLE         CFMsoft CFMsoft         P2         Rp         Ez         BASELINE RA Voz           103         BAR         KITCHENS (COOKING)         450         0.12         20         9         7.5         0.8         152           105         DINING (1/2)         DINING ROOM         1600         0.18         70         112         7.5         0.8         152           RTU-2 TOTALS         2050         -         -         121         -         -         1562           RTU-3 OUTSIDE AIR CALCULATIONS           RTU-3 OUTSIDE AIR CALCULATIONS           RTU-3 CCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         PZ         Rp         EZ         BASELINE RA Voz           NUMBER         ROOM NAME         CCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         PZ         Rp         EZ         BASELINE RA Voz           NUMBER         ROOM NAME         CCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT PEOPLE         CFMIperson         CFM	105	DINING (1/6)	DINING ROOM	533	0.18	70	37	7.5	0.8	467	
ROOM NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           103         BAR         KITCHENS (COOKING)         450         0.12         200         9         7.5         0.8         152           105         DINING (1/2)         DINING ROOM         1600         0.18         70         112         7.5         0.8         1410           RTU-2 TOTALS         2050         -         -         121         -         -         1562           RTU-3 OUTSIDE AIR CALCULATIONS           RTU-3 CCUPANCY CLASSIFICATION           SOFT         CFM/SOFT           104         GAME         ARCADE         2940         0.18         70         37         7.5         0.8         1215           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8	RTU-1 TOTA	LS		2407	-	-	134	-	-	1695	
NUMBER         ROUM NAME         CLASSIFICATION         A2         Ka         DENSITY         P2         Kp         E.2         Voz           103         BAR         KITCHENS (COOKING)         450         0.12         20         9         7.5         0.8         152           105         DINING (1/2)         DINING ROOM         1600         0.18         70         112         7.5         0.8         152           RTU-2 TOTALS         2050         -         -         121         -         -         1562           RTU-3 OUTSIDE AIR CALCULATIONS           ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           NUMBER         ROOM NAME         CCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           104         GAME         ARCADE         2904         59         7.5         0.8         1215           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         1215           104 <td< td=""><td></td><td></td><td><b>RTU-2 OUTS</b></td><td>SIDE</td><td></td><td>ALCUL</td><td></td><td>IS</td><td></td><td></td></td<>			<b>RTU-2 OUTS</b>	SIDE		ALCUL		IS			
NUMBER         CLASSIFICATION         SQFT         CFM/SQFT         #/1000         PEOPLE         CFM/person         CFM         CFM           103         BAR         KITCHENS (COOKING)         450         0.12         20         9         7.5         0.8         152           105         DINING (1/2)         DINING ROOM         1600         0.18         70         112         7.5         0.8         1410           RTU-2 TOTALS         2050         -         -         121         -         -         1562           RTU-3 OUTSIDE AIR CALCULATIONS           RTU-3 OUTSIDE AIR CALCULATIONS           ROOM         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-4 OUTSIDE AIR CALCULATIONS           RTU-4 OUTSIDE AIR CALCULATIONS           RTU-4 OUTSIDE AIR		ROOM NAME		Az	Ra		P7	Rp	F7	BASELINE RAT	
103         BAR         KITCHENS (COOKING)         450         0.12         20         9         7.5         0.8         152           105         DINING (1/2)         DINING ROOM         1600         0.18         70         112         7.5         0.8         1410           RTU-2 TOTALS         2050         -         -         121         -         -         1562           RTU-3 OUTSIDE AIR CALCULATIONS           RTU-3 OUTSIDE AIR CALCULATIONS           ROOM         NAME         CCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-4 OUTSIDE AIR CALCULATIONS            CCUPANT CLASSI	NUMBER		CLASSIFICATION					-			
105         DINING (1/2)         DINING ROOM         1600         0.18         70         112         7.5         0.8         1410           RTU-2 TOTALS         2050         -         -         121         -         -         1562           RTU-2 TOTALS         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           NUMBER         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           INUMBER         OCCUPANT DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         NUMBER           NUMBER         OCCUPANT DINING ROOM <td>100</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>	100						-				
RTU-2 TOTALS         2050         -         -         121         -         1562           RTU-3 OUTSIDE AIR CALCULATIONS           ROOM NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           104         GAME         ARCADE         3473         -         -         96         -         -         1682           RTU-3 ODTSIDE AIR CALCULATIONS           RTU-3 COUTSIDE AIR CALCULATIONS           RTU-3 COUTSIDE AIR CALCULATIONS           RTU-4 COUTSIDE AIR CALCULATIONS           RTU-4 COURSIDE AIR CALCULATIONS           NUMBER         ROOM NAME         CCUPANCY CLASSIFICATION           COC							-				
RTU-3 OUTSIDE AIR CALCULATIONS           ROOM NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           105         DINING (1/6)         DINING ROOM         533         0.18         20         59         7.5         0.8         1216           RTU-3 TOTALS         3473         -         96         -         -         1682           ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT P         96         -         -         1682           NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           NUMBER         ROOM NAME         CCUPANCY CLASSIFICATION         Az         Rap <th co<="" td=""><td>105</td><td>DINING (1/2)</td><td>DINING ROOM</td><td>1600</td><td>0.18</td><td>70</td><td>112</td><td>7.5</td><td>0.8</td><td>1410</td></th>	<td>105</td> <td>DINING (1/2)</td> <td>DINING ROOM</td> <td>1600</td> <td>0.18</td> <td>70</td> <td>112</td> <td>7.5</td> <td>0.8</td> <td>1410</td>	105	DINING (1/2)	DINING ROOM	1600	0.18	70	112	7.5	0.8	1410
RTU-3 OUTSIDE AIR CALCULATIONS           ROOM NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           105         DINING (1/6)         DINING ROOM         533         0.18         20         59         7.5         0.8         1216           RTU-3 TOTALS         3473         -         96         -         -         1682           ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT P         96         -         -         1682           NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           NUMBER         ROOM NAME         CCUPANCY CLASSIFICATION         Az         Rap <th co<="" td=""><td>RTU-2 TOTA</td><td>LS</td><td></td><td>2050</td><td>-</td><td>-</td><td>121</td><td>-</td><td>-</td><td>1562</td></th>	<td>RTU-2 TOTA</td> <td>LS</td> <td></td> <td>2050</td> <td>-</td> <td>-</td> <td>121</td> <td>-</td> <td>-</td> <td>1562</td>	RTU-2 TOTA	LS		2050	-	-	121	-	-	1562
NUMBER         ROUM NAME         CLASSIFICATION         AZ         Ra         DENSITY         PZ         Rp         EZ         Voz           104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-3 TOTALS         DENDINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-3 TOTALS         3473         -         -         96         -         -         1682           ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           NUMBER         ROOM NAME         CORCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           110         CORRIDOR         CORRIDOR         118         0.06         0         0         0.8         9           108         KITCHEN         KITCHENS (COKING)         <			RTU-3 OUTS	SIDE	AIR CA	ALCUL	ATION	IS			
104         GAME         ARCADE         2940         0.18         20         59         7.5         0.8         1215           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-3 TOTALS         3473         -         -         96         -         -         1682           RTU-3 TOTALS         3473         -         -         96         -         -         1682           RTU-3 TOTALS         3473         -         -         96         -         -         1682           RTU-3 TOTALS         3473         -         -         1682           RTU-4 OUTSIDE AIR CALCULATIONS           RTU-4 COUPANT NUMBER         R         OCCUPANT CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           110         CORRIDOR         118         0.06         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>ROOM NUMBER</td> <td>ROOM NAME</td> <td></td> <td></td> <td></td> <td>DENSITY</td> <td></td> <td></td> <td>Ez</td> <td></td>	ROOM NUMBER	ROOM NAME				DENSITY			Ez		
105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467           RTU-3 TOTALS         3473         -         -         96         -         -         1682           RTU-3 TOTALS         3473         -         96         -         1682           RTU-4 OUTSIDE AIR CALCULATIONS           RTU-4 OUTSIDE AIR CALCULATIONS           ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           NUMBER         ROOM NAME         OCCUPANCY CLASSIFICATION         Az         Ra         OCCUPANT DENSITY         Pz         Rp         Ez         BASELINE RA Voz           110         CORRIDOR         SQFT         CFM/SQFT         #/1000         PEOPLE         CFM/person         CFM           110         CORRIDOR         118         0.0         0         0.8         339           111         RESTROOM<	10.1										
RTU-3 TOTALS3473-96-1682RTU-4 OUTSIDE AIR CALCULATIONSROOM NUMBERROOM NAMEOCCUPANCY CLASSIFICATIONAzRaOCCUPANT DENSITYPzRpEzBASELINE RA Voz10CORRIDORCORRIDOR1180.06000.89108KITCHENKITCHENS (COOKING)10120.1220207.50.8339111RESTROOMRESTROOM57000000.80107STORAGESTORAGE1380.120000.821106VIP ROOMDINING ROOM7400.1870527.50.8654105DINING (1/6)DINING ROOM5330.1870377.50.8467											
RTU-4 OUTSIDE AIR CALCULATIONSROOM NUMBERROOM NAMEOCCUPANCY CLASSIFICATIONAzRaOCCUPANT DENSITYPzRpEzBASELINE RA Voz110CORRIDORCORRIDOR1180.060000.89108KITCHENKITCHENS (COOKING)10120.12207.50.8339111RESTROOMRESTROOM57000000.80107STORAGESTORAGE1380.120000.821106VIP ROOMDINING ROOM7400.1870527.50.8654105DINING (1/6)DINING ROOM5330.1870377.50.8467	105	DINING (1/6)	DINING ROOM	533	0.18	70	37	7.5	0.8	467	
ROOM NUMBERROOM NAMEOCCUPANCY CLASSIFICATIONAzRaOCCUPANT DENSITYPzRpEzBASELINE RA Voz10CORRIDORSQFTCFM/SQFT#/1000PEOPLECFM/personCFM110CORRIDORCORRIDOR1180.060000.89108KITCHENKITCHENS (COOKING)10120.1220207.50.8339111RESTROOMRESTROOM57000000.80107STORAGESTORAGE1380.120000.821106VIP ROOMDINING ROOM7400.1870527.50.8654105DINING (1/6)DINING ROOM5330.1870377.50.8467	RTU-3 TOTA	LS		3473	-	-	96	-	-	1682	
NUMBER         ROOM NAME         CLASSIFICATION         AZ         Ra         DENSITY         PZ         Rp         EZ         Voz           1         CORRIDOR         SQFT         CFM/SQFT         #/1000         PEOPLE         CFM/person         CFM           110         CORRIDOR         CORRIDOR         118         0.06         0         0         0         0.8         9           108         KITCHEN         KITCHENS (COOKING)         1012         0.12         20         20         7.5         0.8         339           111         RESTROOM         RESTROOM         570         0         0         0         0.8         9           107         STORAGE         STORAGE         138         0.12         0         0         0.8         21           106         VIP ROOM         DINING ROOM         740         0.18         70         52         7.5         0.8         654           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467			<b>RTU-4 OUTS</b>	SIDE	AIR CA	ALCUL	ATION	IS			
110         CORRIDOR         CORRIDOR         118         0.06         0         0         0         0.8         9           108         KITCHEN         KITCHENS (COOKING)         1012         0.12         20         20         7.5         0.8         339           111         RESTROOM         RESTROOM         570         0         0         0         0         0.8         0           107         STORAGE         STORAGE         138         0.12         0         0         0         0.8         21           106         VIP ROOM         DINING ROOM         740         0.18         70         52         7.5         0.8         654           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467	ROOM NUMBER	ROOM NAME		Az		DENSITY		-	Ez		
108         KITCHEN         KITCHENS (COOKING)         1012         0.12         20         20         7.5         0.8         339           111         RESTROOM         RESTROOM         570         0         0         0         0         0.8         0           107         STORAGE         STORAGE         138         0.12         0         0         0         0.8         21           106         VIP ROOM         DINING ROOM         740         0.18         70         52         7.5         0.8         654           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467											
111         RESTROOM         RESTROOM         570         0         0         0         0         0.8         0           107         STORAGE         STORAGE         138         0.12         0         0         0         0.8         21           106         VIP ROOM         DINING ROOM         740         0.18         70         52         7.5         0.8         654           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467											
107         STORAGE         STORAGE         138         0.12         0         0         0.8         21           106         VIP ROOM         DINING ROOM         740         0.18         70         52         7.5         0.8         654           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467											
106         VIP ROOM         DINING ROOM         740         0.18         70         52         7.5         0.8         654           105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467						-	-	-		-	
105         DINING (1/6)         DINING ROOM         533         0.18         70         37         7.5         0.8         467								-			
	105	DINING (1/6)	DINING ROOM	533	0.18	70	37	7.5	0.8	467	
				1	1	1	1	1		1	

H	VAC DESIGN PAF	RAMETERS
SUMMER	INSIDE TEMPERATURE/HUMIDITY	74°F DB/50% RH
SUMMER	OUTSIDE TEMPERATURE	96°F DB/77°F WB
WINTER	INSIDE TEMPERATURE	72°F DB
	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
* BASED	ON ASHRAE 2013 FUNDAMENTALS	

		E	EXHAUS	ΓFΑ	N SCHED	ULE				
										1
TAG	MANUFACTURER	MODEL	TYPE	CFM	ESTIMATED ESP (IN W.G.)	E	LECTRICAL		RPM	NOTES
						VOLTAGE	PHASE	HP		
EF-1	COOK	ACRUD 150RH15D	ROOF UPBLAST	400	0.500	120	1	0.071	914	1,2,3,4
		FACTORY MOUNTED D			CONTROLLER. RTU-4 IS IN THE OCCU		F-1 RUNS (			<u> </u>
			•						0021.	

INSTALL FAN ON FACTORY CURB PER THE MANUFACTURER'S SPECIFICATIONS.
 PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN.

	DUCT INSU	JLATIO	N MAT	ERIAL	_ SCH	IEDU	LE		
			INSL	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

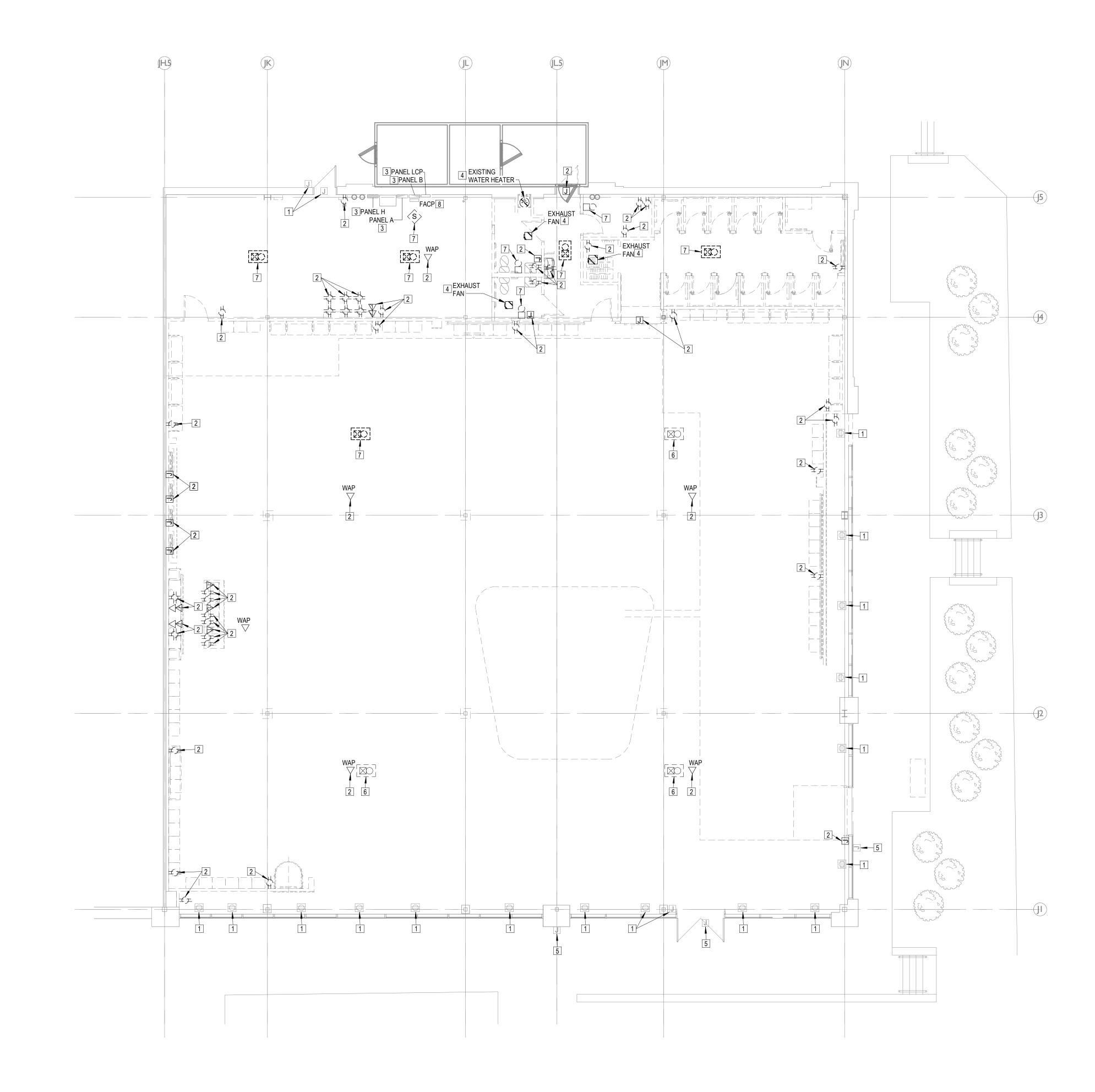
1. INSTALL PER MANUFACTURERS RECOMMENDATIONS. PROVIDE NUMBER OF LAYERS TO MEET 2-HOUR RATING.

ЕСТ	RICAL		COND	ENSER E	LECTRIC	CAL		
A	MCA	MOCP	VOLTAGE/ PHASE	FLA	MCA	MOCP	WEIGHT	REMARKS
7	2.7	15	460/3	8.5	10.5	15	1362	1,2,3,4,5
VISH	HED BY F	KITCHEN	EQUIPMENT	SUPPLIE	R).			

24.02. Craft Put	rev issue PERMIT SET	Craft Putt - Lees Summit	08/13/2024 MO CERTIFICATE MO #199	FSC N ENGINEER 8675 W 96 Overland Park (816) 333	423 DELAWARE, STE KANSAS CITY, MISSO www.clockwork-ad.com
tt Lee's Summit	date 07.29.2024	Summit Fair 840-M NW BLUE PKWY, SUITE M LEE'S SUMMIT, MO 64086	E OF AUTHORITY	th Street K, KS 66210	URI 64105

MECHANICAL SCHEDULES





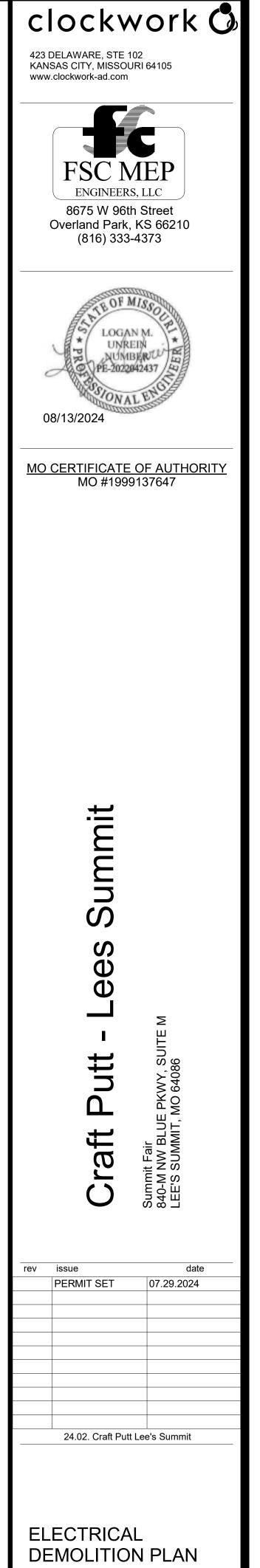
1 ELECTRICAL DEMOLITION PLAN 1/8" = 1'-0"

# GENERAL NOTES

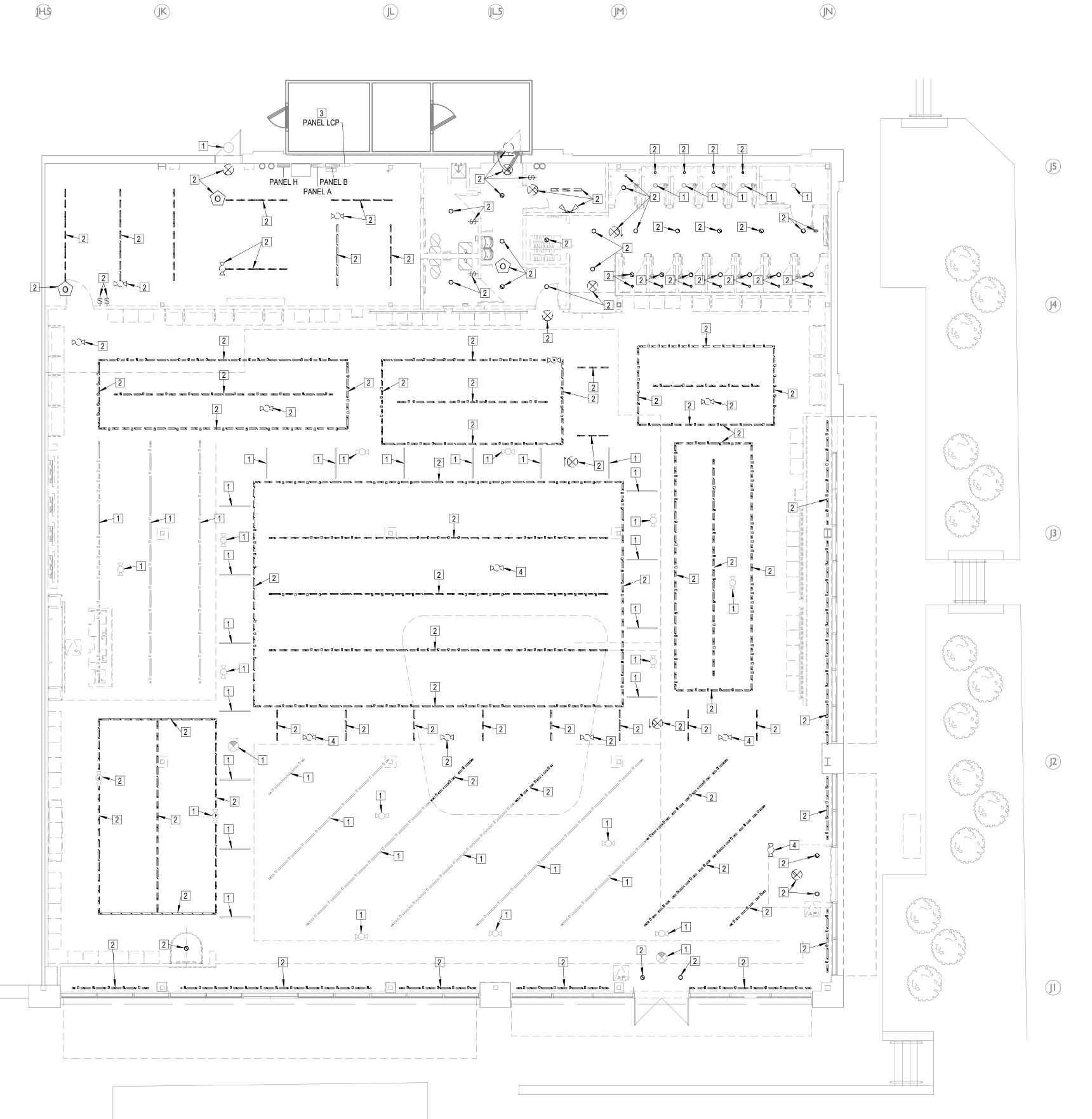
- 1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
- 2. 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.
- 3. REMOVE CONDUIT STUB UPS AND CAP EXISTING BELOW SLAB CONDUITS NOT TO BE USED IN NEW WORK CONCEALED BELOW FLOOR.
- 4. MAINTAIN/RESTORE ANY EXISTING CIRCUITS SERVING DEVICES TO REMAIN WHICH MAY BE ON THE SAME CIRCUIT AS DEVICE INDICATED TO BE REMOVED.
- 5. CONTRACTOR SHALL FIELD VERIFY BRANCH CIRCUIT SOURCE PANEL AND NUMBER OF ANY EXISTING TO REMAIN DEVICES AND FIXTURES PRIOR TO DEMOLITION.
- 6. REMOVE ALL EXISTING LOW-VOLTAGE SECURITY, DATA AND A/V DEVICES. COORDINATE WITH OWNER AND LANDLORD PRIOR TO REMOVAL.

# <u>PLAN NOTES:</u> *∎*

- 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.
- 3. EXISTING PANELBOARD TO REMAIN. MAINTAIN EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUITRY.
- 4. REMOVE EXISTING DEVICE ASSOCIATED WITH MECHANICAL/PLUMBING EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED WIRES, CABLES, AND CONDUITS BACK TO SOURCE PANEL.
- 5. EXISTING JUNCTION BOX FOR SIGNAGE TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- 6. EXISTING FIRE ALARM DEVICE TO REMAIN.
- 7. REMOVE AND RELOCATE EXISTING FIRE ALARM DEVICE. SEE SHEET EP100 FOR NEW LOCATION.
- 8. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).



DE100



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

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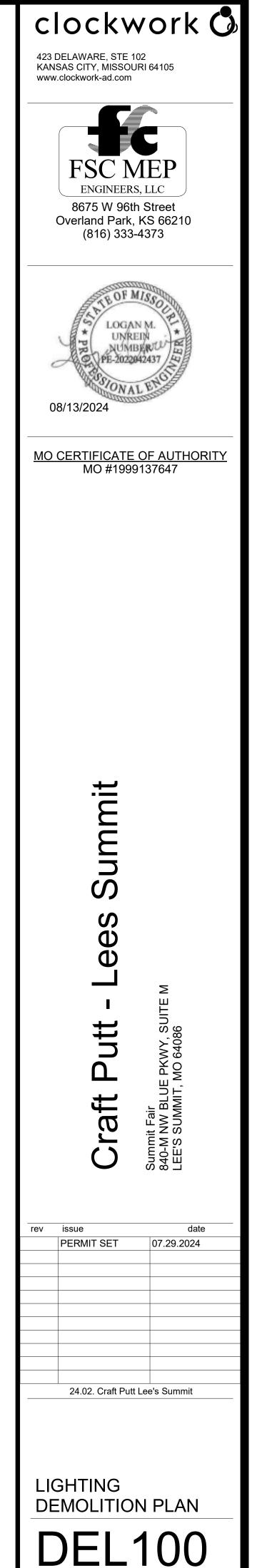
JL

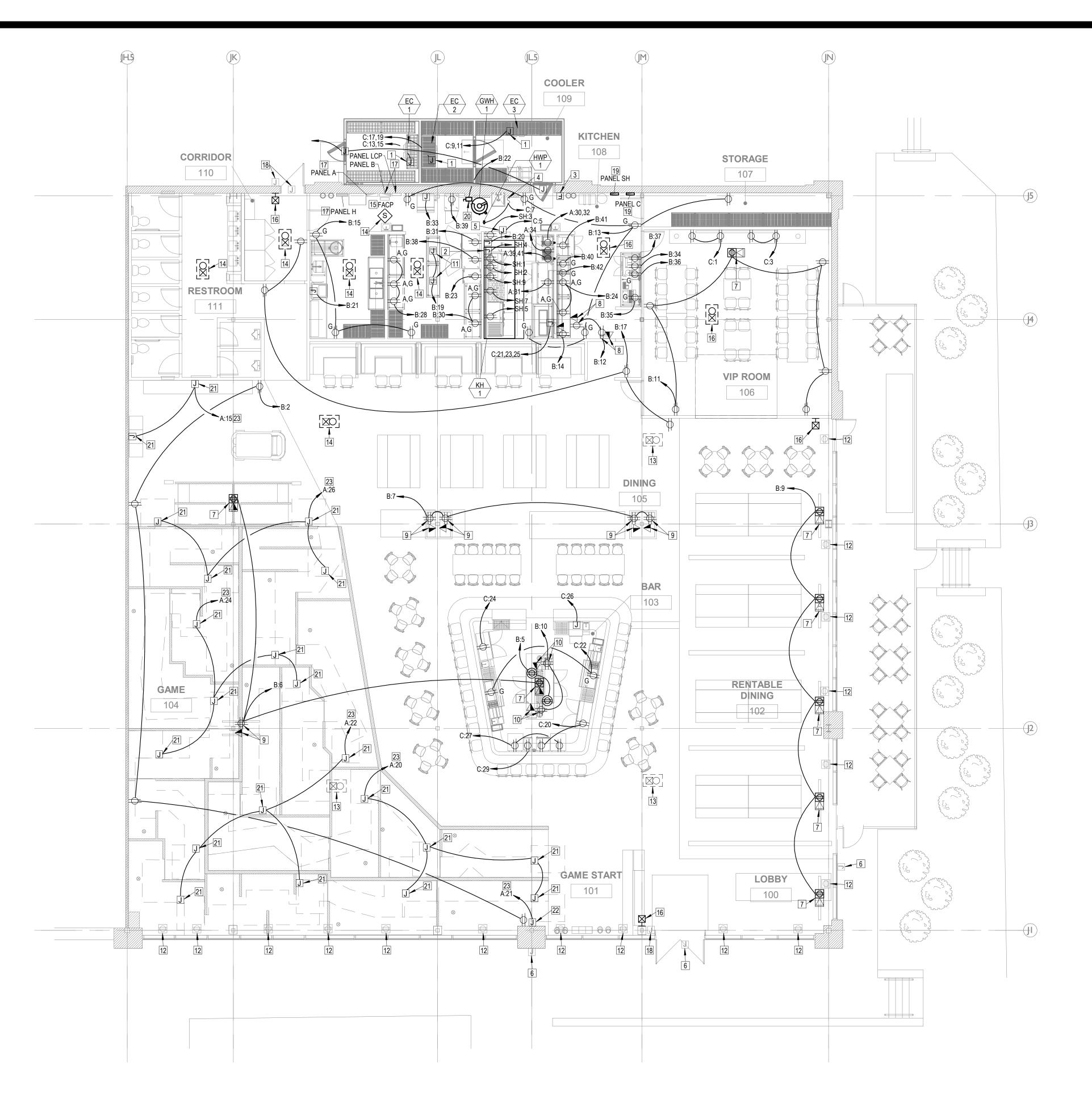
# **GENERAL NOTES**

- 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.

# 

- 1. EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- 2. 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.
- 4. REMOVE AND RELOCATE EXISTING EMERGENCY LIGHT. SEE SHEET EL100 FOR NEW LOCATION.





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.
- 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 VAPOR BARRIER AND FLOOR SLAB AND CONCEALED UP IN WALL TO ACCESSIBLE SPACE ABOVE CEILING.
- 4. CONTRACTOR SHALL SAW CUT EXISTING SLAB TO RUN ANY BELOW SLAB CONDUITS.
- 5. WHERE EXPOSED, IN GUEST-FACING AREA, ALL WIRING AND CABLING SHALL BE INSTALLED IN CONDUIT PAINTED TO MATCH ADJACENT SURFACES.

# 

- 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 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. COORDINATE WITH PLUMBING CONTRACTOR. CONTRACTOR SHALL FIELD LOCATE 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.
- 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.
- 8. PROVIDE 120V CONNECTION WITH ACCESS TO DATA FOR POS WALL MONITOR. FIELD LOCATE ELECTRICAL CONNECTION PER THE MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH TENANT AND ARCHITECT PRIOR TO ROUGH-IN.
- 9. PROVIDE SURFACE-MOUNTED QUAD RECEPTACLE AND DATA OUTLET FOR WALL-MOUNTED TV. COORDINATE MOUNTING HEIGHT AND DEVICE LOCATION WITH 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.
- 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).
- 13. EXISTING FIRE ALARM DEVICE TO REMAIN.
- 14. RELOCATED FIRE ALARM DEVICE. SEE SHEET DE100 FOR ADDITIONAL INFORMATION.
- 15. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- PROVIDE AND INSTALL NEW FIRE ALARM DEVICE AND CONNECT TO EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL VERIFY COMPATIBILITY WITH EXISTING SYSTEM.
- 17. EXISTING PANELBOARD TO REMAIN. MAINTAIN EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUITRY.
- EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
   SEE ONE-LINE DIAGRAM ON SHEET E601 FOR ADDITIONAL INFORMATION ON
- ELECTRICAL EQUIPMENT.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.
- 22. PROVIDE 120V CONNECTION IN CONCEALED LOCATION FOR WALL-MOUNTED 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.

# 423 DELAWARE, STE 102 KANSAS CITY, MISSOURI 64105

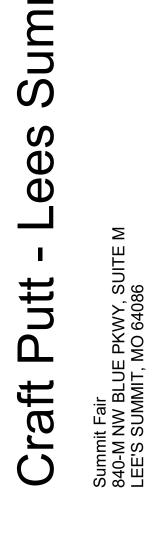
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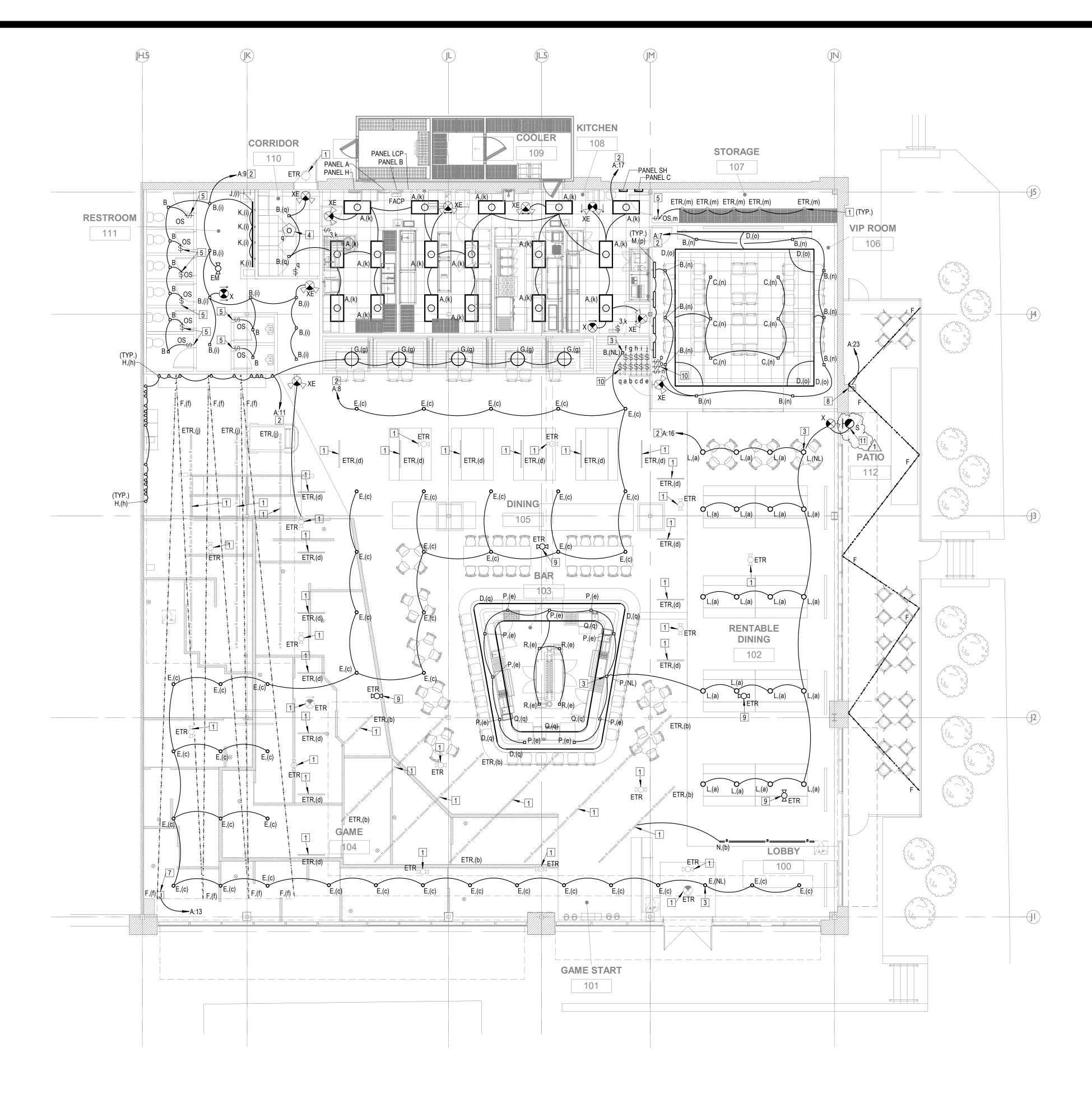
MO CERTIFICATE OF AUTHORITY MO #1999137647



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





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 ACCESS PANEL PER THE CEILING MANUFACTURER'S SPECIFICATIONS.
- 4. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONED LOCATIONS OF LIGHT FIXTURES AND INSTALLATION HEIGHTS AFF.
- 5. SEE ARCHITECTURAL DRAWINGS TO DETERMINE WHICH EXISTING LIGHT FIXTURES ARE TO BE PAINTED.

# PLAN NOTES:

- 1. EXISTING LIGHT FIXTURE TO REMAIN. MAINTAIN EXISTING BRANCH CIRCUITRY AND CIRCUIT BREAKER(S) UNLESS NOTED OTHERWISE.
- 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.
- 4. PROVIDE CEILING-MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR. 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 BE DIMMABLE.
- 7. PROVIDE HARD-WIRED CONNECTION TO TYPE F FESTOON LIGHTING ON SWITCH LEG 'f'. FIELD COORDINATE ELECTRICAL CONNECTION LOCATION WITH ARCHTIECT PRIOR TO ROUGH-IN.
- 8. PROVIDE WEATHERPROOF HARD-WIRED CONNECTION TO EXTERIOR FESTOON LIGHTING. FIELD COORDINATE ELECTRICAL CONNECTION LOCATION WITH ARCHTIECT PRIOR TO ROUGH-IN.
- 9. RELOCATED EMERGENCY LIGHT. SEE SHEET DEL100 FOR ADDITIONAL INFORMATION. MAINTAIN EXISTING BRANCH CIRCUITRY AND CIRCUIT BREAKER(S).

10. ALL LIGHT SWITCHES TO BE DIMMABLE. 

11. MOUNT FIXTURE AT 9'-0" AFG CENTERED ABOVE DOOR.  $\square$ 



clockwork 🖒

ees utt Craft Pu

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

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LIGHTING NEW WORK PLAN

**EL100** 

BUS M		Mounting: Sur Enclosure: Nem				SU		FROM: ATION: KITCH	IEN 108		MINIMUM AIC 25,000A ACCESSORIES:			м	NEL IS RATI IAIN TY VOLTA	ING: YPE:
NOTEO		110										0//7	NOTEO	NOTEO	01/7	
NOTES	CKT DESCRIPTION 1 SPARE	20	<b>P</b>		<b>A</b> 15.75	B	\$	C	Р	AMP	DESCRIPTION	2 CKT	NOTES	NOTES LCP	CK I	TF
	3 SPARE	30	1	0.00	15.75	0.00	15 75		3	80	RTU-3	4	-	LCP	3	TR
	5 SPARE	30	1			0.00	15.75	0.00 15.75	5	00	K10-5	6	-	LCP	5	ST
	7	50		15 75	15.75			0.00 13.75				8	+	LCP	7	PA
	9 RTU-1	80	3	10.70	10.70	15.75	15 75		3	80	RTU-4	10	-	LCP	9	BA
	11					10.70	10.10	15.75 15.75		00		12	-	LCP	11	PU
	13			15.33	32.79							14		LCP	13	PU
	15 RTU-2	80	3			15.33	28.09		3	125	STEP-DOWN TRANSFORMER	16	-		15	GA
	17							15.33 30.12	-			18	-	LCP	17	KI
	19			0.21	2.26							20			19	EX
	21 KITCHEN EXHAUST FAN KEF-1	15	3			0.21	2.26		3	15	MAKE-UP AIR UNIT CONDENSER	22	1		21	INT
	23							0.21 2.26				24	1	LCP	23	EX
	25			0.21	0.45							26		LCP	25	SH
	27 KITCHEN EXHAUST FAN KEF-2	15	3			0.21	0.45		3	15	MAKE-UP AIR UNIT FAN	28	1	LCP	27	SH
	29							0.21 0.45				30		LCP	29	SH
			AL KVA:			93.79		95.82 kVA						(G)	31	SA
		ΤΟΤΑ	AMPS:	35	7 A	339	A	347 A						LCP	33	BL/
														LCP	35	EX
	LASSIFICATION	CONNECTED		DEI		FACTOF	र <u></u>	ESTIMATED DE			PANEL TOTALS			LCP	37	EX
EQUIPM	ENT	1920 V/			100.0			1920 VA		_	TOTAL CONNECTED KVA: 288.09 k			(G)	39	SA
HVAC	-	187711 \			100.0			187711 V/		T	OTAL ESTIMATED DEMAND KVA: 268.18 k	VA			41	
LIGHTIN		12898 V			125.0			16122 VA	1		TOTAL CONNECTED CURRENT: 347 A					
	G - EXTERIOR	272 VA			125.0			340 VA		TOTAL	ESTIMATED DEMAND CURRENT: 323 A					
MOTOR		9375 V/			100.0			9375 VA								
RECEPT		17484 V 1500 V			78.60			13742 VA 1875 VA						LOAD C		FICA
	SPLAY N - COMMERCIAL	56683 V			125.0 65.00			36844 VA						HVAC		
WATER		250 VA			100.0			250 VA	۱					LIGHTIN		
		230 VP			100.0	0 /0		230 VA								

# **GENERAL NOTES**

- 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.

# 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

0		3 Ph	ase W/ N	eutral				3 Phase					1 Phase		
Circuit 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	Conduit (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.

PANELBC **BUS RATING:** MAIN TYPE: VOLTAGE:

SIGN/DISPLAY

KITCHEN - COMMERCIAL

NOTES	СКТ
(G)	1
(G)	3
(G)	5
(G)	7
(G)	9
	11

LOAD CLASSIFIC
KITCHEN - COM

# PANELBOARD: A

М	ΑΙΝ ΤΥ		DUNTING: SURF, CLOSURE: NEMA				SU		from: Ation:				MINIMUM AIC 10 ACCESSORIES:	D,000A	
NOTES	СКТ	DESCRIPTION	AMP	Р		4	E	3		C	Р	AMP	DESCRIPTION	СКТ	NOTES
LCP	1	TRACK LIGHTING	20	1	0.24			,			1	20	EMERGENCY LIGHTING	2	
LCP	3	TRACK LIGHTING	20	1	0.21	0.11	0.34	0.04			1	20	TRACK LIGHTING	4	LCP
LCP	5	STORAGE ROOM LIGHTING	20	1			0.01	0.01	0.12	0.03	1	20	TRACK LIGHTING	6	LCP
LCP	7	PARTY LIGHTING	20	1	0.69	1.70			0.12	0.00	1	20	SUSPENDED CYLINDERS	8	LCP
LCP	9	BATHROOM LIGHTING	20	1	0.00		0.41	0.03			1	20	TRACK LIGHTING	10	LCP
LCP	11	PUTT PUTT LIGHTING	20	1			0.11	0.00	0.29	0.00	1	20	SPARE	12	
LCP	13	PUTT PUTT FESTOON LIGHTING	20	1	1.00	0.00			0.20	0.00	1	20	SPARE	14	
20.	15	GAMES	20	1	1.00	0.00	0.50	1.45			1	20	DINING LIGHTING	16	LCP
LCP	17	KITCHEN LIGHTING	20	1			0.00		0.51	0.00	1	20	SPARE	18	
20.	19	EXHAUST FAN EF-1	15	1	0.00	1.25			0.01	0.00	1	20	PUTT PUTT HOLES	20	
	21		20	1	0.00	1.20	0.00	1.25			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			1	20	SPARE	28	
LCP	29	SHOW WINDOW RECEPT.	20	1					0.90	2.08				30	
(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			1	20	WORKTOP REFRIGERATOR	34	(G)
LCP	35	EXTERIOR BUILDING SIGNAGE	20	1						11.11				36	
LCP	37	EXTERIOR BUILDING SIGNAGE	20	1	0.50	9.38					3	80	PANEL C	38	-
	39						1.80	9.25						40	-
(G)	41	SANDWICH PANINI GRILL	20	2					1.80	0.50	1	20	LCP	42	+
			TOTA	L KVA:	19.70	) kVA	16.74	kVA		2 kVA		-	-		
			TOTAL	AMPS:	16	8 A	139	A	16	6 A					
LOAD C	LASSI	FICATION	CONNECTED I	OAD	DEI	MAND F	FACTOF	२	ESTIMA	TED DI	EMAND		PANEL TOTALS	6	
EQUIPN	IENT		120 VA			100.0				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			125.0				5122 V/	4		TOTAL CONNECTED CURRENT:		
LIGHTIN	IG - EX	TERIOR	272 VA		125.00%					TOTAL	ESTIMATED DEMAND CURRENT:				
MOTOR			0 VA			0.00				0 VA					
<b>RECEP1</b>	FACLE		3960 VA			100.0	0%		3	960 VA	١				

1500 VA

37207 VA

125.00%

65.00%

BUS M	S RATII AIN TY	BOARD: B NG: 250 A MO PE: MCB - 100 A ENCL GE: 120/208 (3Ø-4W)	
NOTES	СКТ	DESCRIPTION	
	1	ANTI-THEFT SYSTEM	
	3	SPARE	
(G)	5	BACK BAR COOLERS	
	7	DINING TVS	
	9	RENTABLE DINING TVS	
	11	VIP ROOM RECEPT.	
		KITCHEN CONVENIENCE REC	
	15	KITCHEN CONVENIENCE REC	E
	17	CONVENIENCE RECEPT.	
(G)	19	CEILING CORD REELS	
(G)	21	DISHMACHINE	
(G)	23	HEATED HOLDING PROOFING	i
(SH)	25	PANEL SH	
	27		
	29	SHUNT TRIP SPACE	
(G)	31	REACH-IN FREEZER	
(G)	33	ICE MAKER (G)	
(G)	35	SODA/DROP-IN ICE DISPENSE	F
(G)	37	COFFEE BREWER	
(G)	39	MOBILE HEATED CABINET	
(G)	41	SANDWICH PREP TABLE	
LOAD C	LASSIF	FICATION	
			_

LOAD CLASSIFICATION
EQUIPMENT
RECEPTACLE
KITCHEN - COMMERCIA
WATER HEATER

OARD: SH												
<b>G:</b> 100 A	MOUNTING:	SURFACE			SU	PPLY F	ROM: B			MINIMUM AIC 10,000A		
E: MCB - 50 A E	NCLOSURE:	NEMA-1				LOCA	TION: K	ITCHEN 1	08	ACCESSORIES:		
E: 208 (1Ø-3W)												
DESCRIPTION		AMP	Р		4	E	В	Р	AMP	DESCRIPTION	СКТ	NOTES
FRYER (SH)		20	1	0.60	0.60			1	20	FRYER (SH)	2	(G)
WORKTOP FREEZER (SH)		20	1			0.48	1.92	1	20	KITCHEN HOOD	4	(G)
REFRIGERATED BASE (SH)		20	1	0.20				1		EQUIPPED SPACE	6	
RANGE (SH)		20	1			0.48		1		EQUIPPED SPACE	8	
FRYER (SH)		20	1	0.60				1		EQUIPPED SPACE	10	
SPARE		20	1			0.00		1		EQUIPPED SPACE	12	
		TOT	AL KVA:	2.00	kVA	2.88	kVA				·	
		TOTA	L AMPS:	19	A	27	Ά					
CATION	CONNE	CTED LOA	D D	EMAND	FACTO	R ES	STIMATE		ID	PANEL TOTALS		
MERCIAL		84 VA		65.0	65.00%		3175 VA		-	TOTAL CONNECTED KVA: 4.88 kVA		
							-			TOTAL ESTIMATED DEMAND KVA: 3.17 kV		
										TOTAL CONNECTED CURRENT: 23 A		

TOTAL ESTIMATED DEMAND CURRENT: 15 A

1875 VA

24185 VA

BU:	S RATI AIN TY		ounting: S Closure: N		E			SU		Y FROM: CATION:		IEN 108		MINIMUM AIC 10,000A ACCESSORIES:		
NOTES	СКТ	DESCRIPTION	AI	MP	Р		A	E	B		с	Р	AMP	DESCRIPTION	СКТ	NOTES
	1		2	-	1	0.36	1.80	0.00	4.00				••		2	-
	3		2		1			0.36	1.80		4.00	3	20	WALK-IN CONDENSER WCU-3	4	-
	5	SOLENOID VALVE HOT WATER RECIRC PUMP HWP-1	2		1 1	0.00	1.67			0.12	1.80				6	
	9					0.00	1.07	1.06	1.67	7		3	20	WALK-IN CONDENSER WCU-2	10	-
	11	EVAPORATOR COIL EC-3	2	0	2			1.00	1.01	1.06	1.67	Ů	20		12	-
	13					1.06	1.67						20		14	+
	15	EVAPORATOR COIL EC-1	2	0	2			1.06	1.67	7		3		WALK-IN CONDENSER WCU-1	16	-
	17		1	•	<b>^</b>					1.06	1.67	1				1
	19	EVAPORATOR COIL EC-2	2	0	2	1.06	0.48					1	20	BOTTLE/WINE COOLER	20	(G)
	21							1.21	0.36	6		1	20	BAR RECEPTACLE	22	
(G)	23	HOT FOOD WELLS	2	0	3					1.21	0.18	1	20	BOTTLE COOLER (G)	24	(G)
	25					1.21	1.80					1	20	UNDERCOUNTER DISHWASHER (G)	26	(G)
(G)	27	UNDERCOUNTER FREEZERS	2	-	1			0.19	0.00			1	20	SPARE	28	
(G)	29	ICE MAKER	2	-	1					0.48	0.00	1	20	SPARE	30	
				OTAL K			1 kVA		8 kVA		5 kVA					
			TO	TAL AM	APS:	93	3 A	78	3 A	7	7 A					
LOAD C	LASSI	FICATION	CONNECT		٩D	DE	MAND	FACTO	R	ESTIMA	TED DI	EMAND		PANEL TOTALS		
EQUIPN		-		VA			100.0				120 VA			TOTAL CONNECTED KVA: 29.74 kV	/A	
HVAC			0	VA			0.00	)%		0 VA		1	TOTAL ESTIMATED DEMAND KVA: 19.75 k	/A		
MOTOR	S		0	VA		0.00%			0 VA				TOTAL CONNECTED CURRENT: 83 A			
RECEPTACLE			1080	) VA			100.0	0%		,	1080 VA	١	TOTAL	ESTIMATED DEMAND CURRENT: 55 A		
						1							-			

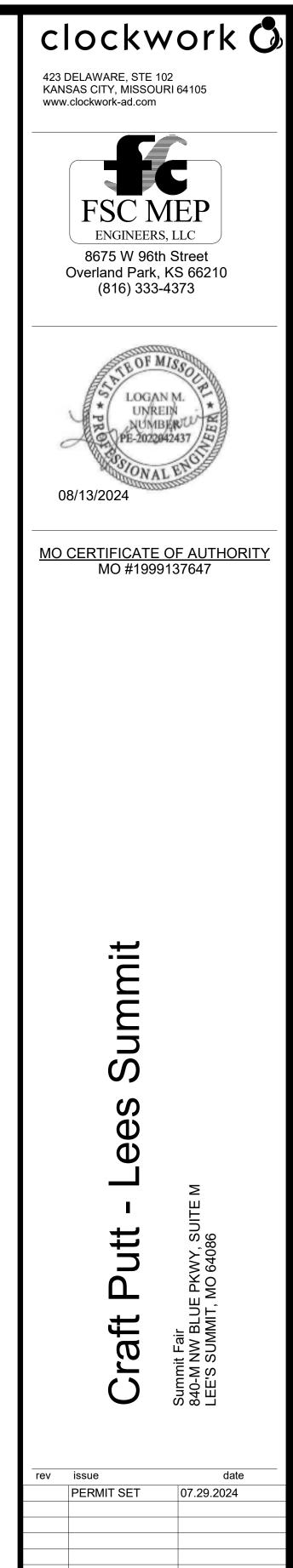
65.00%

18548 VA

LOAD CLASSIFICATION	
EQUIPMENT	
HVAC	
MOTORS	
RECEPTACLE	
KITCHEN - COMMERCIAL	

28535 VA





24.02. Craft Putt Lee's Summit

ELECTRICAL SCHEDULES E600

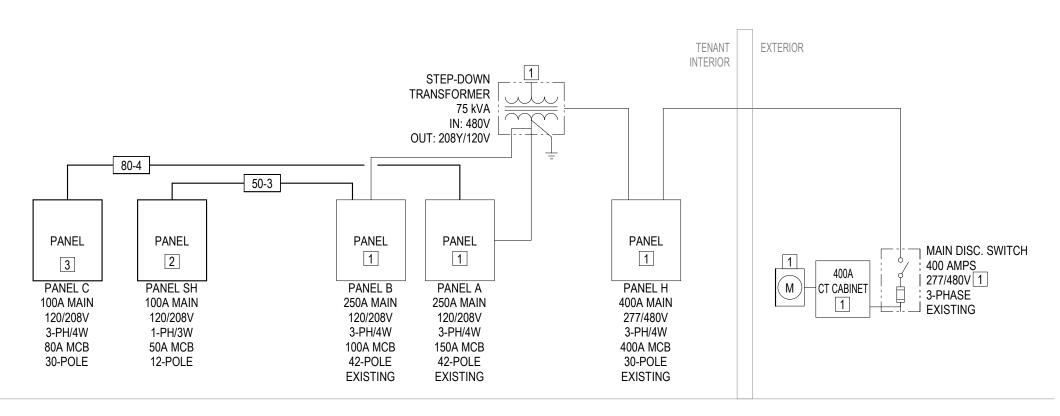
				LIGHT FIXTURE SCHEDULE								
TYPE MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LAMP TYPE	VOLTAG E	FINISH	MOUNTING					
А	LITHONIA	2GTL 4 40L GZ10 LP836	29.8 VA	LED	120V	WHITE	LAY-IN	2x4 LED TROFFER. SUITABLE FOR MANU				
В	LITHONIA	LDN4SQ-30/15-LS4-BR-LSS-MVO LT-GZ10	17.5 VA	LED	120V	BLACK	RECESSED	4" SQUARE RECESSED ANTI GLARE LED				
С	LITHONIA	LDN4SQ-30/25-LS4-BR-LSS-MVO LT-GZ10	26.1 VA	LED	120V	BLACK	RECESSED	4" SQUARE RECESSED ANTI GLARE LED				
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 FROS LENS. PROVIDE ALL REQUIRED END CAP LOW-VOLTAGE TRANSFORMER AND INS				
Е	NORA LIGHTING	NYLM-5C-30X-BB-LE4	40.0 VA	LED	120V	BLACK	CABLE	5" LED CYLINDER PENDANT. SUITABLE F				
EM	LITHONIA	ELM2LB	2.4 VA	LED	120V	BLACK	SURFACE	WALL MOUNTED DUAL-HEAD EMERGENO				
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 G				
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 FIXTU				
К	LIGHTOLOGY	ACC83697	14.0 VA	LED	120V	BLACK	WALL	NAUTICUS OVAL OUTDOOR BULKHEAD V WITH CCT OF 3000K.				
L	NORA LIGHTING	NYLM-5SC-30X-BB-LE4	24.7 VA	LED	120V	BLACK	SURFACE	SURFACE-MOUNTED 6" ROUND LED CYLI				
М	CERNO	CERNO ROUND PROFILE LED ART LIGHT, 24-INCH, 3000K CCT	14.0 VA	LED	120V	GOLD	WALL	DECORATIVE WALL SCONCE.				
Ν	NORDIC	TUBIX R COB 3000 274-505-20	11.0 VA	LED	120V	BLACK	TRACK	LED TRACK LIGHT. SUITABLE FOR MANU. (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				
Q	KLUS	8K-KWP-CR30-1220-24	59.3 VA	LED	120V	SILVER ANODIZED	SURFACE	2.9 W/SQ.FT. LED TAPE LIGHT. PROVIDE 45-ALU A4023ANODA EXTRUDED CHANNI LOW-VOLTAGE TRANSFORMER AND INS				
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				
$\sim$			15 2 \/A									
S	DUAL LITE	PG-P-HTR	15.2 VA	LED	120V	PLATINUM SILVER	WALL	EXTERIOR EMERGENCY WALL SCONCE				
		EDGTREL	-3.8VA		120	NA		SÎNGLE-FĂCE LED EXIT LIGHT WITH ÊME LIGHTING PLAN.				
XE	COMPASS	CELCRXRN	5.0 VA	LED	120V	N/A	WALL/CEILING	EXIT LIGHT WITH DUAL-HEAD EMERGENO WHETHER EXIT SIGN IS WALL-MOUNTED				

# LIGHTING CONTROL PANEL SCHEDULE

RELAY #	TYPE	LOAD NAME	ZONE	CIRCUIT
1	SM	TRACK LIGHTING	1a	A:1
2	SM	TRACK LIGHTING	1a	A:3
3	SM	STORAGE ROOM LIGHTING	1b	A:5
4	SM	PARTY ROOM LIGHTING	1a	A:7
5	SM	RESTROOM LIGHTING	1a	A:9
6	SM	PUTT PUTT LIGHTING	1a	A:11
7	SM	PUTT PUTT STRING LIGHTS	1a	A:13
8	SM	PODIUM GAMES	1a	A:15
9	SM	KITCHEN LIGHTING	1b	A:17
10	SM	TRACK LIGHTING	2a	A:4
11	SM	TRACK LIGHTING	2b	A:6
12	SM	DINING CYLINDERS	2a	A:8
13	SM	TRACK LIGHTING	2b	A:10
14	SM	SPARE		
15	SM	SPARE		
16	SM	DINING LIGHTING	2a	A:16
17	SM	SPARE		
18	SM	PUTT PUTT HOLES	1a	A:20
19	SM	PUTT PUTT HOLES	1a	A:22
20	SM	PUTT PUTT HOLES	1a	A:24
21	SM	PUTT PUTT HOLES	1a	A:26
22	SM	SPARE		
23	SM	SPARE		
24	SM	SPARE		

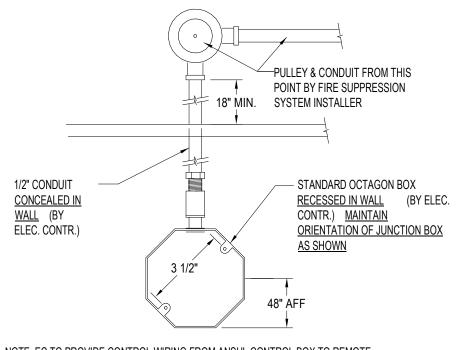
•	ANEL	ЭСПЕ	DULE		
	RELAY #	TYPE	LOAD NAME	ZONE	CIRCUI
	25	SM	INTERIOR SIGNAGE	1a	A:21
	26	SM	EXTERIOR STRING LIGHTS	5	A:23
	27	SM	SHOW WINDOW RECEPT.	5	A:25
	28	SM	SHOW WINDOW RECEPT.	5	A:27
	29	SM	SHOW WINDOW RECEPT.	5	A:29
	30	SM	SPARE		
	31	SM	BLADE SIGN	5	A:33
	32	SM	BUILDING SIGNAGE	5	A:35
	33	SM	BUILDING SIGNAGE	5	A:37
	34	SM	SPARE		
	35	SM	SPARE		
	36	SM	SPARE		
	37	SM	SPARE		
	38	SM	SPARE		
	39	SM	SPARE		
	40	SM	SPARE		
	41	SM	SPARE		
	42	SM	SPARE		
	43	SM	SPARE		
	44	SM	SPARE		
	45	SM	SPARE		
	46	SM	SPARE		
	47	SM	SPARE		
	48	SM	SPARE		

LIGHTING CONTROL ZONES								
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 SCH	1. VERIFY ZONING AND SCHEDULING WITH OWNER.							
2. ZONE 5 SHALL BE CONTR MANUAL CONTROLS.	OLLED VIA TIMECLOCK ONLY. NO							



1 ONE-LINE DIAGRAM NOT TO SCALE

DESCRIPTION
UAL DIMMING.
D DOWNLIGHT
D DOWNLIGHT
OSTED LENS. PROVIDE WITH ALUMINUM CHANNEL AND FLUSH FROSTED APS, FITTINGS, ETC. PROVIDE MANUFACTURER RECOMMENDED STALL IN ACCESSIBLE AND CONCEALED LOCATION.
FOR MANUAL DIMMING.
NCY LIGHT WITH EMERGENCY BATTERY.
GLOBE.
WALL/CEILING LIGHT. PROVIDE WITH DIMMABLE LED COMPATIBLE BULB
LINDER.
UAL DIMMING. PROVIDE WITH JUNO T 14FT BLACK TRACK AND PROVIDE WITH
D DOWNLIGHT
E WITH ALUMINUM CHANNEL AND FLUSH FROSTED LENS. PROVIDE WIYH NEL WITH FROSTED LENS. PROVIDE MANUFACTURER RECOMMENDED STALL IN ACCESSIBLE AND CONCEALED LOCATION.
D DOWNLIGHT
-
IERGENCY BATTERY. COORDINATE ARROWS AND QUANTITY OF FACES WITH
NCY FIXTURES AND BATTERY BACKUP. COORDINATE WITH DRAWINGS D OR RECESSED CEILING MOUNTED.



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

2 REMOTE FIRE PULL DETAIL NOT TO SCALE

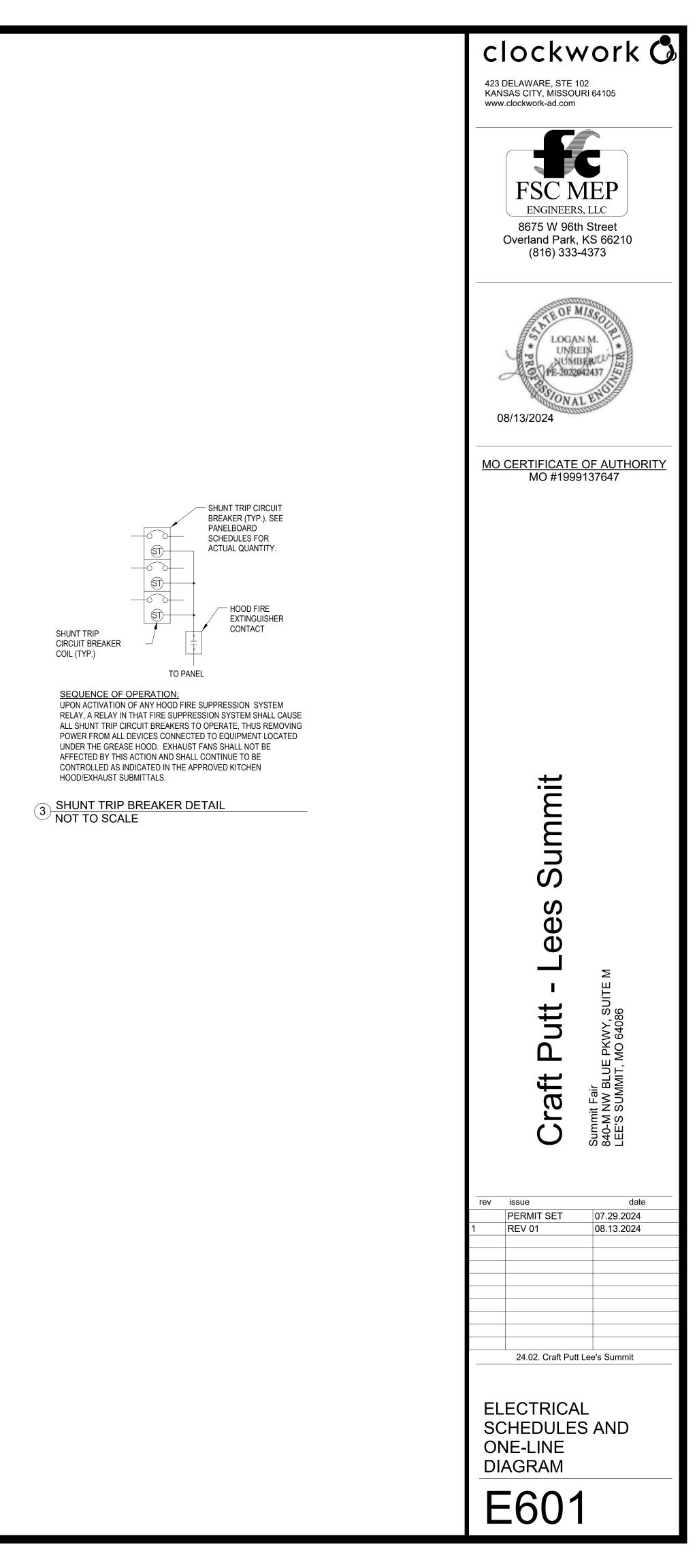
CONDUCTOR SCHEDULE									
TAG	MAX OCP	<u>SETS</u>	PHASE CONDUCTORS	<u>GROUND</u> CONDUCTOR	<u>CONDUIT</u>	<u>NOTES</u>			
80-4	80 A	1	(4) #4 AWG	(1) #8 EG	1-1/4"				
50-3	45 & 50 A	1	(3) #8 AWG	(1) #10 EG	3/4"				
	HEDULE NOTES (AF CONDUIT ALLOWED		HALL INCREASE CON	DUIT SIZE AT THEIR	DISCRETION.				

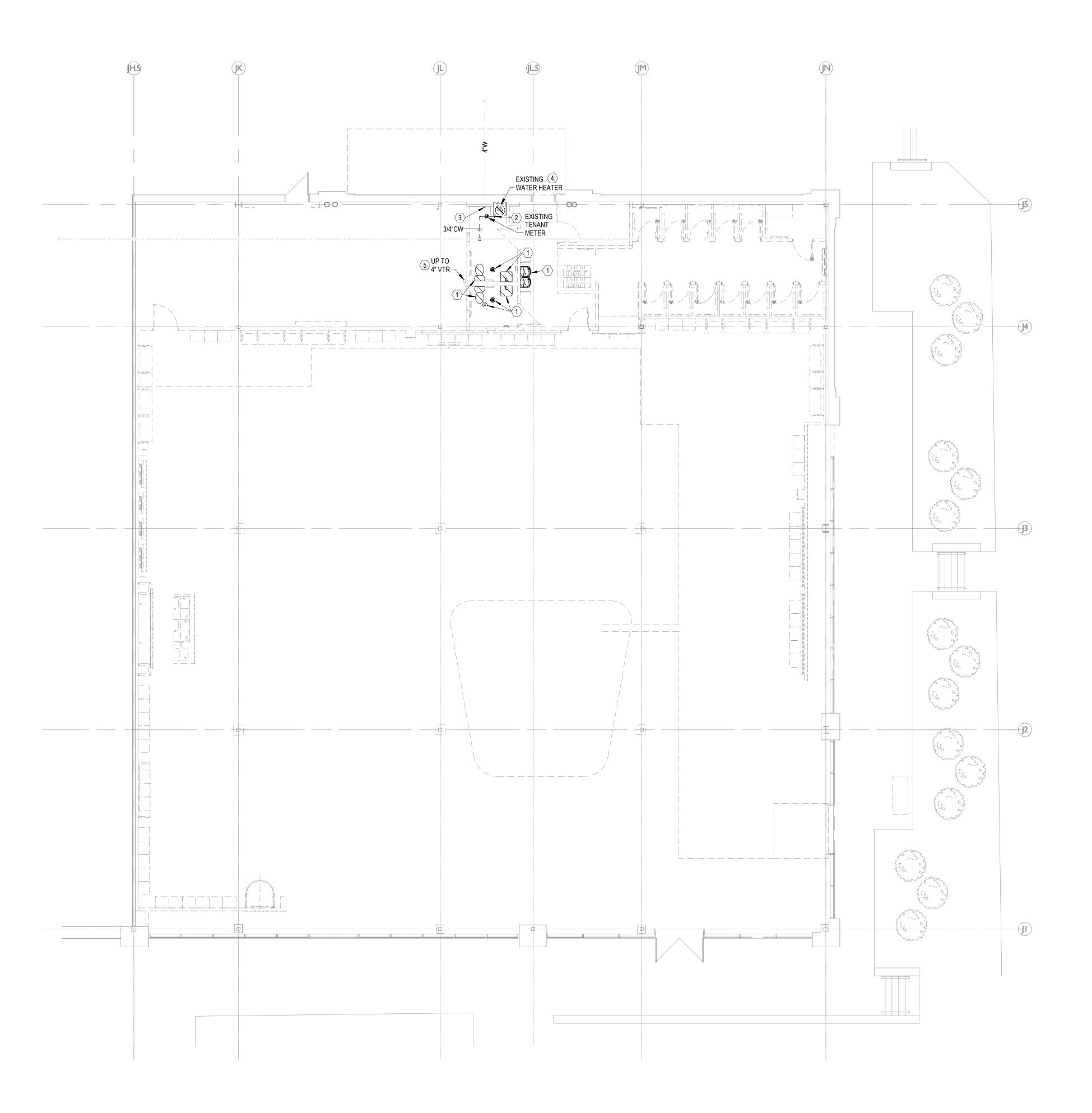
# • ALL CONDUIT SHALL BE EMT WITH THHN/THWN COPPER CONDUCTORS UNLESS NOTED OTHERWISE.

# 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.





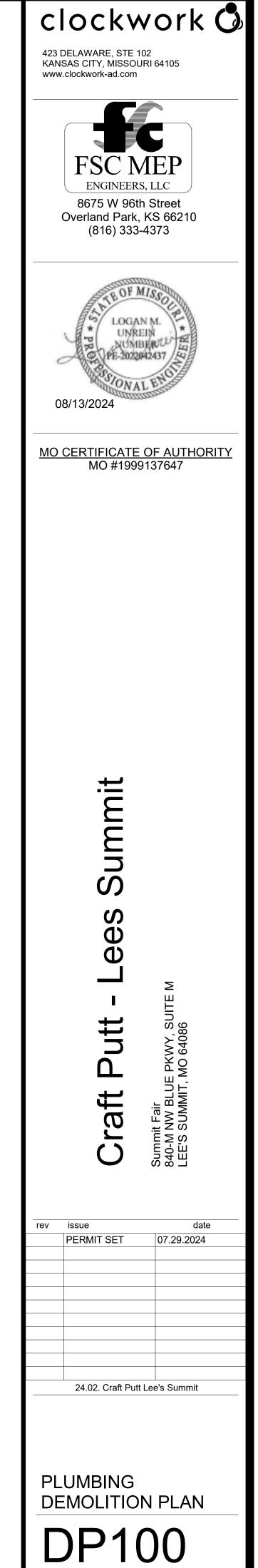
1 DEMOLITION PLUMBING PLAN 1/8" = 1'-0"

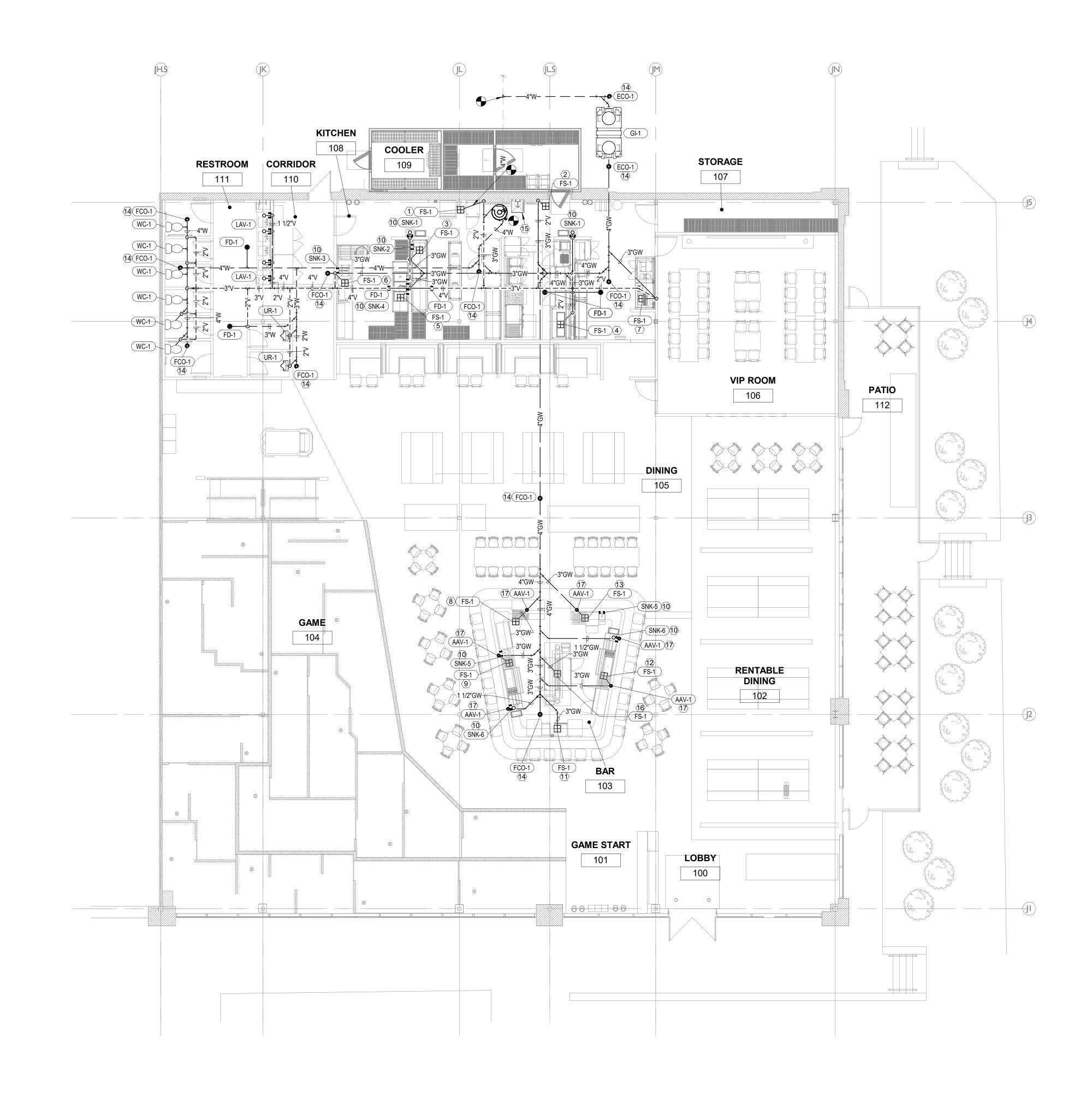
# **GENERAL NOTES**

- 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.
- 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.





NEW WORK PLUMBING WASTE AND VENT 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. 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
- 5. SEE DETAIL 2/P500 FOR TYPICAL INDIRECT WASTE PIPE TERMINATION DETAIL AT ALL FLOOR SINKS.

DETERMINE ROUTING AND SIZE PRIOR TO SAW CUTTING.

# PLAN NOTES: (#)

- 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 INFORMATION.
- 2. EXTEND 3/4" INDIRECT WASTE FROM EVAPORATOR COILS EC-3 IN NEW WALK-IN TO FLOOR SINK. SEE DETAIL 11/P500 FOR ADDITIONAL INFORMATION.
- 3. EXTEND INDIRECT WASTE FROM WORKTABLE PREP SINK DRAIN OUTLET TO FLOOR SINK.
- 4. EXTEND INDIRECT WASTE PIPES FROM HOT FOOD WELLS TO FLOOR SINK.
- 5. EXTEND INDIRECT WASTE PIPES FROM THREE COMPARTMENT SINK DRAIN OUTLETS TO FLOOR SINK.
- 6. EXTEND INDIRECT WASTE PIPES FROM DISHMACHINE AND PRE-RINSE SINK TO FLOOR SINK.
- 7. EXTEND INDIRECT WASTE PIPES FROM COFFEE BREWER, SODA/ICE DISPENSER AND WATER STATION TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPE FROM BEVERAGE TRAIN TROUGH TO FLOOR SINK.
- 9. EXTEND INDIRECT WASTE PIPES FROM ICE WELL, DRAIN BOARD AND DUMP SINK DRAIN OUTLET TO FLOOR SINK.
- 10. SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. SINK 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.
- 11. EXTEND INDIRECT WASTE PIPE FROM ICE MAKER TO FLOOR SINK.
- 12. EXTEND INDIRECT WASTE PIPES FROM ICE WELL AND DRAIN BOARD TO FLOOR SINK.
- 13. EXTEND INDIRECT WASTE PIPES FROM DRAIN BOARD, UNDERCOUNTER 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.
- 16. EXTEND INDIRECT WASTE PIPES FROM BEER TAP DRAINBOARDS AND BEER GLASS RINSER DRAIN OUTLETS TO FLOOR SINK.
- 17. INSTALL AIR ADMITTANCE VALVE BEHIND EQUIPMENT, IN RECESSED WALL BOX IN ACCESSIBLE LOCATION.



423 DELAWARE, STE 102 KANSAS CITY, MISSOURI 64105 www.clockwork-ad.com



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MO CERTIFICATE OF AUTHORITY MO #1999137647

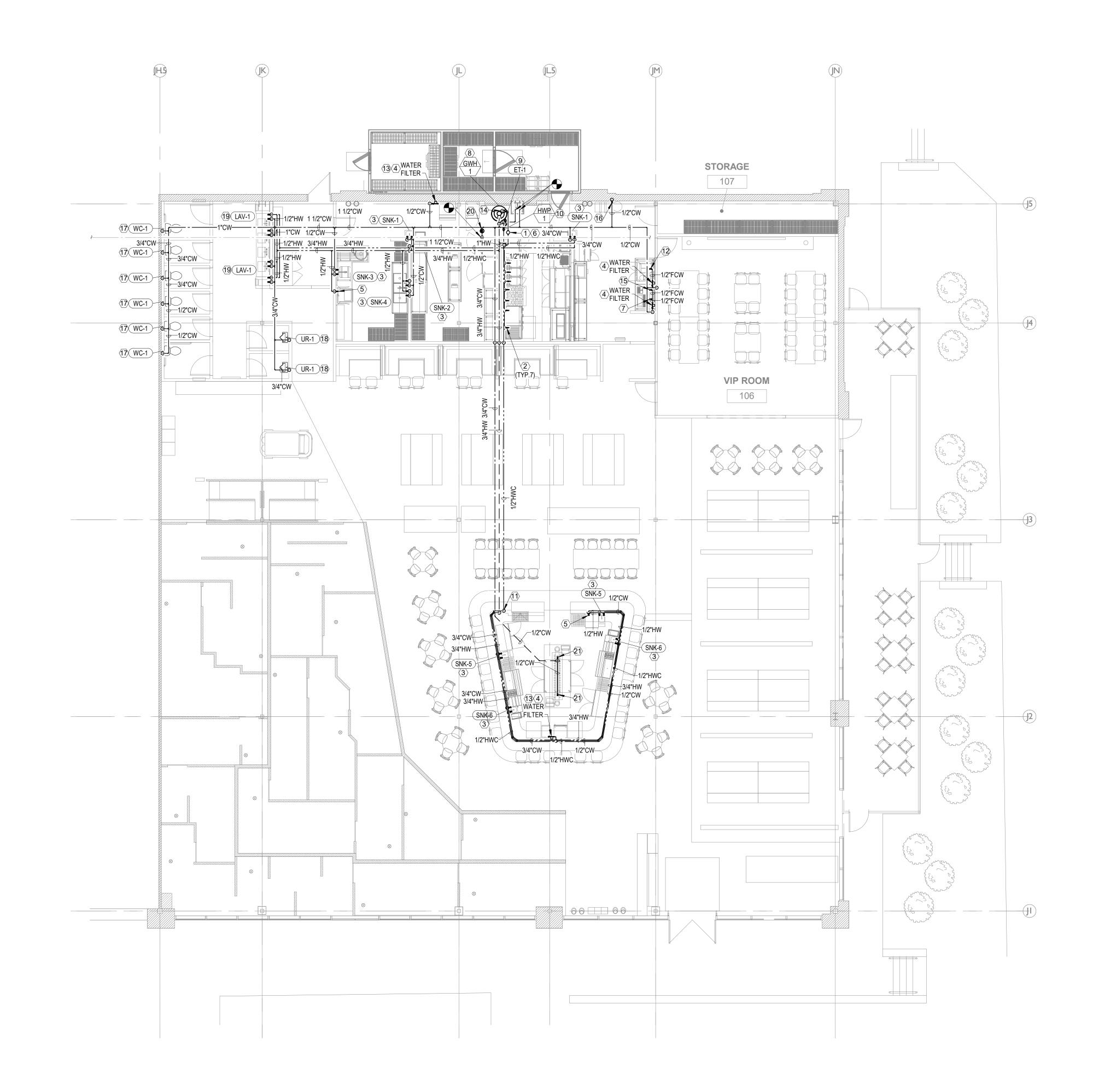
> Craft Putt - Lees Sum Summit Fair 840-M NVV BLUE PKWY, SUITE M LEE'S SUMMIT, MO 64086

nit

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

PLUMBING WASTE & VENT NEW WORK PLAN

**P100** 



NEW WORK PLUMBING DOMESTIC WATER 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. SEE PIPE MATERIAL AND INSULATION SCHEDULE ON P600 SHEET FOR PIPING AND INSULATION REQUIREMENTS.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING PIPING SIZES AND LOCATIONS.
- 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.
- 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.

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DOMESTIC WATER

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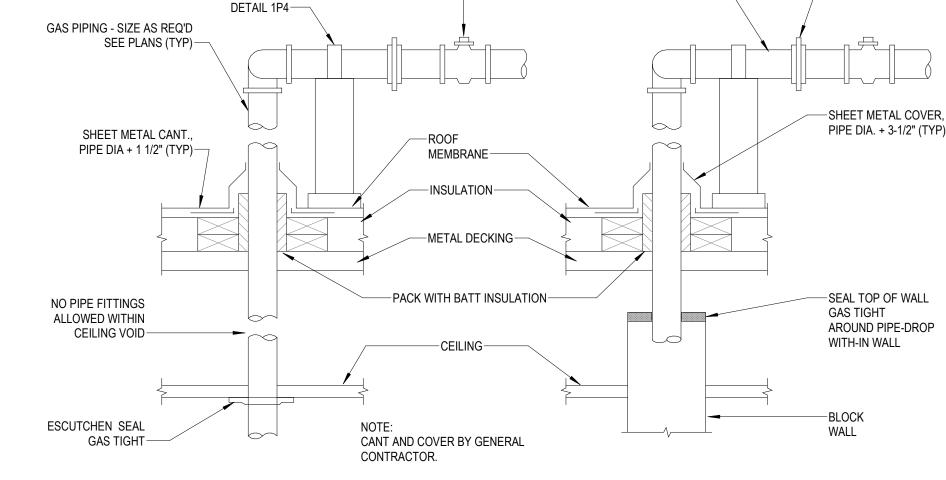
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date

07.29.2024

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# 8 GAS PIPE ROOF PENETRATION DETAIL NOT TO SCALE



GAS COCK

(TYP)

## DOMESTIC WATER SUBMETERING 5 NOT TO SCALE

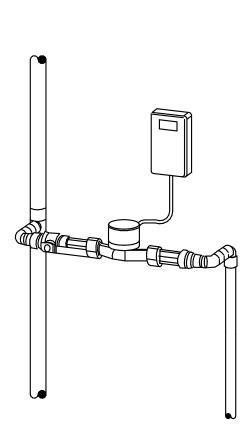
3. MOUNT METER IN DIRECTION SHOWN.

4. DO NOT CARRY OR SUPPORT METER BY CABLE.

- 2. CONTRACTOR TO INSTALL VENDOR FURNISHED WATER METER AFTER PIPES HAVE BEEN FLUSHED.
- 1. CONTRACTOR TO INSTALL VENDOR FURNISHED IDLER TUBES AND WATER METER COUPLINGS DURING PLUBMING ROUGH-IN.

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

SUPPORT, SEE



# 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

GAS MAIN ON ROOF

(TYP)

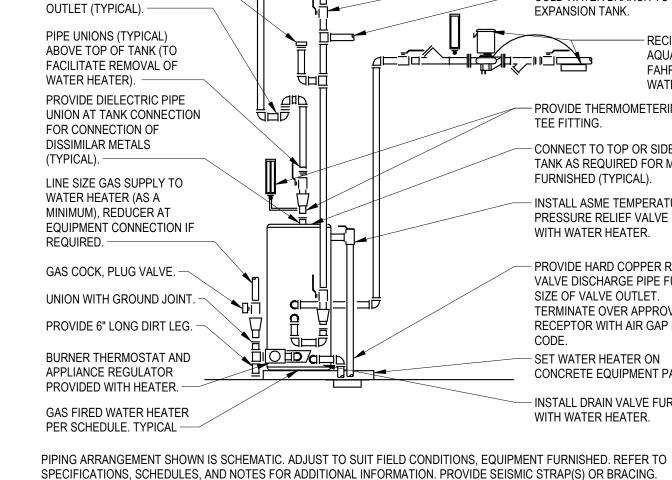
HOT WATER TO FIXTURES. -

PROVIDE AUTOMATIC VACUUM RELIEF VALVE

ABOVE TOP OF TANK. ----

PROVIDE 12" WIDE x 12" DEEP HEAT TRAP AT INLET AND

# 6 GAS WATER HEATER1

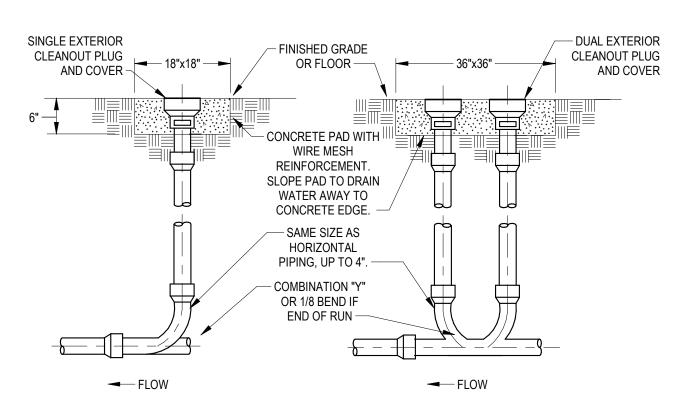


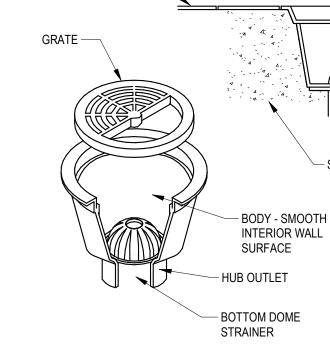
-UNION (TYP)

# 1 NOT TO SCALE

## SANITARY WASTE FLOOR CLEAN-OUT

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





INDIRECT WASTE TERMINATION

NOT TO SCALE

FINISHED

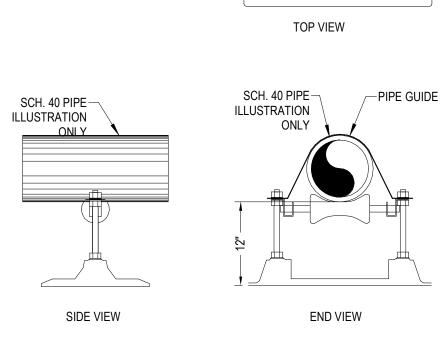
FLOOR -

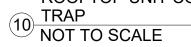
INDIRECT

WASTE LINE -

- SLAB

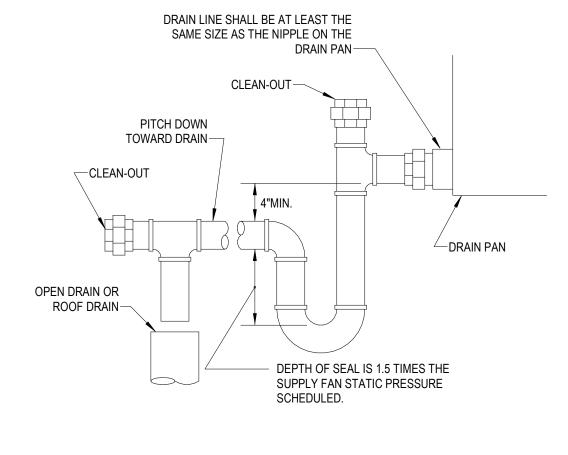






NOTE





- PIPE REDUCER AT CONNECTION

TO EQUIPMENT AS REQUIRED

- GAS PRESSURE REGULATOR

- GROUND JOINT PIPE UNION

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.

3 NATURAL GAS CONNECTION DIAGRAM

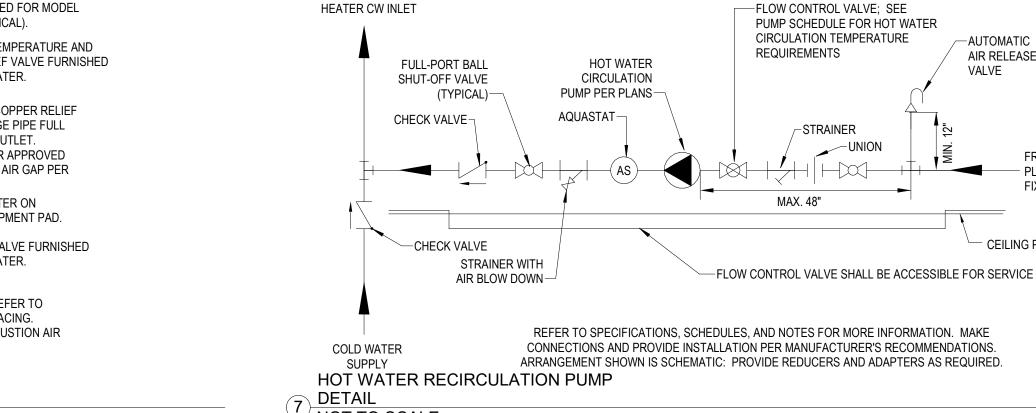
- GAS SHUT-OFF VALVE

- BRANCH OFF TOP OF GAS

SUPPLY MAIN

- BRANCH PIPE - SIZE PER PLAN

VALVE



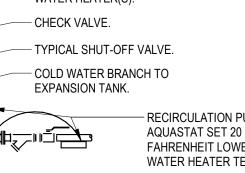
TYPICAL GAS-FIRED

<sup>/</sup> NOT TO SCALE

TO HOT WATER

NOT TO SCALE

EQUIPMENT



- COLD WATER OR SOFTENED

COLD WATER SUPPLY TO

# WATER HEATER(S).

# - RECIRCULATION PUMP AND

- FLOOR SINK TO BE

FINISHED FLOOR

UNLESS OTHERWISE

FLUSH WITH

REQUIRED BY

LOCAL CODE

WATERPROOFING

- HUB OUTLET

AROUND FLOOR SINK

u

# AQUASTAT SET 20 DEGREES

# FAHRENHEIT LOWER THAN

# WATER HEATER TEMPERATURE.

# - PROVIDE THERMOMETERIN TEE FITTING.

# - CONNECT TO TOP OR SIDE OF - INSTALL ASME TEMPERATURE AND

# TANK AS REQUIRED FOR MODEL FURNISHED (TYPICAL).

# PRESSURE RELIEF VALVE FURNISHED

# WITH WATER HEATER.

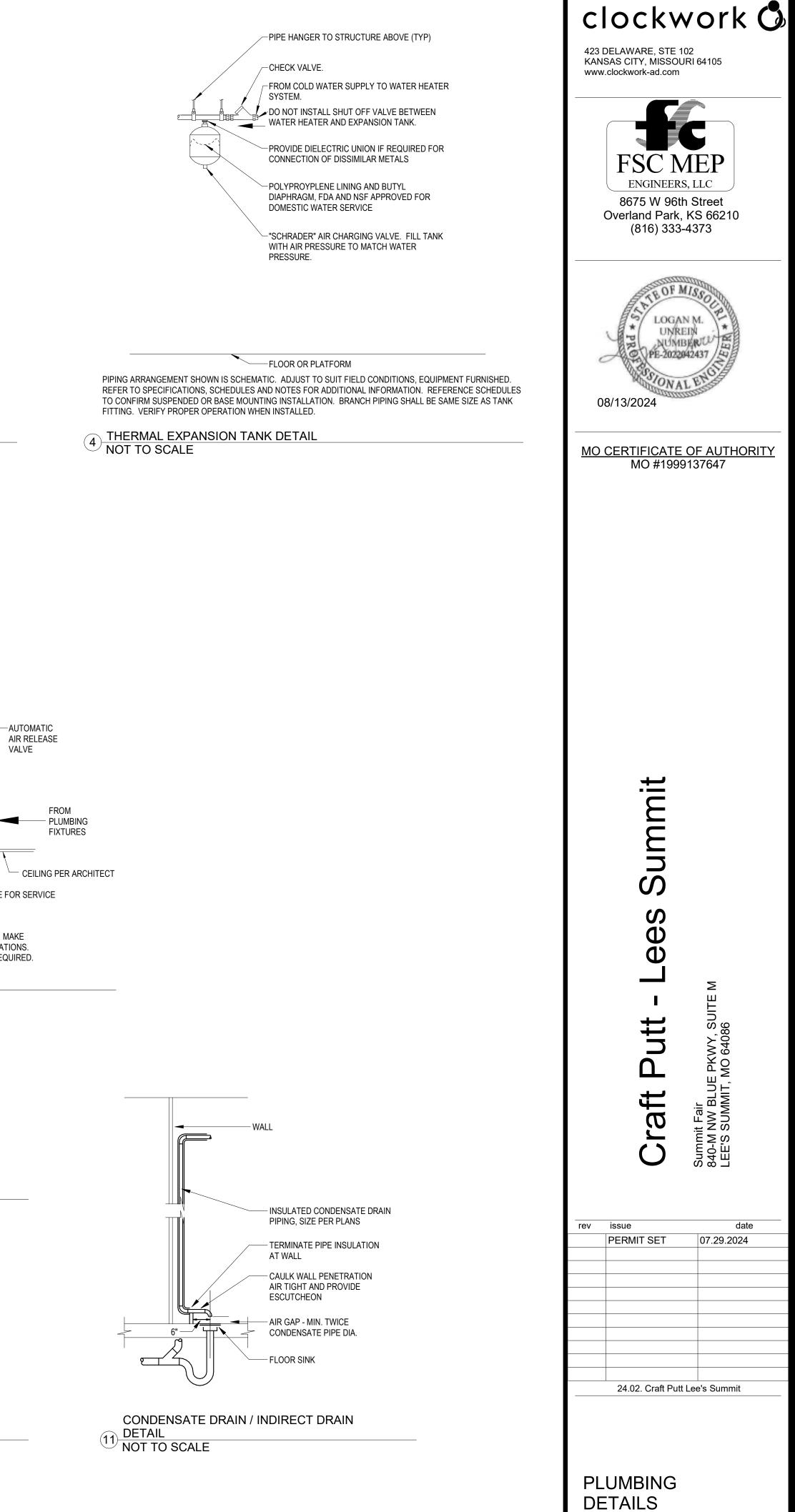
# - PROVIDE HARD COPPER RELIEF VALVE DISCHARGE PIPE FULL

# SIZE OF VALVE OUTLET. CODE. - SET WATER HEATER ON CONCRETE EQUIPMENT PAD.

# WITH WATER HEATER.

# - INSTALL DRAIN VALVE FURNISHED

# TERMINATE OVER APPROVED RECEPTOR WITH AIR GAP PER



P500

# PLUMBING FIXTURE SCHEDULE

			PII			
SNK-1	HAND WASH SINK:	COLD WATER	HOT WATER	MIXED WATER	WASTE	VENT
	PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. 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 WASTE ARM AND ESCUTCHEON. (PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR). PROVIDE WITH TMV-1.	1/2"	1/2"	1/2"	1-1/2"	1-1/2"
SNK-2	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 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.	1/2"	1/2"		1-1/2" INDIRECT WASTE	
SNK-3	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 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.	1/2"	1/2"		1-1/2" INDIRECT WASTE	
SNK-4	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 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 FOR EACH COMPARTMENT.	1/2"	1/2"		(3) 1-1/2" INDIRECT WASTE	
GNK-5	HAND WASH BAR SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. 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 WASTE ARM AND ESCUTCHEON. (PROVIDED AND INSTALLED BY PLUMBING	1/2"	1/2"	1/2"	1-1/2"	1-1/2"
SNK-6	BAR DUMP 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 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.	1/2"	1/2"		1-1/2" INDIRECT WASTE	
GI-1	GREASE INTERCEPTOR: SCHIER GB-500 500-GALLON BELOW GRADE GREASE INTERCEPTOR (OR APPROVED EQUAL). CONSTRUCTED OF HIGH DENSITY POLYETHYLENE WITH MINIMUM 7/16" WALL THICKNESS. INTERCEPTOR TO BE RATED FOR BELOW GRADE INSSTALLATION WITH FIELD ADJUSTABLE RISERS. INTERCEPTOR SHALL HAVE FLOW RATE OF 100 GPM WITH A GREASE CAPACITY OF 3,048 POUNDS AT 100 GPM. COVERS SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINUMUM 16,000 POUND WEIGHT CAPACITY.	À			4"	3"
MV-1	THEMOSTATIC MIXING VALVE: MANUFACTURED BY LEONARD OR APPROVED EQUAL SHALL BE: LEAD FREE BRASS BODY, COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH POLYMER 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).	1/2"	1/2"	1/2"		
_AV-1	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 REDUCTION OF CONDENSATION. FAUCET: MANUFACTURED BY VIGO SHALL BE: NOMA SINGLE-HOLE BATHROOM FAUCET VG01009 "LEAD FREE" MANUALLY OPERATED, ADA COMPLIANT, 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 DECK-MOUNTING HARDWARE KIT. PROVIDE WITH TMV-1. 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 AND WATER LINES PER 2009 ANSI A117.1 - 606.6.	1/2"	1/2"		1-1/2"	1-1/2"
WC-1	WATER CLOSET, WALL-MOUNTED, FLUSH VALVE: MANUFACTURED BY ZURN OR APPROVED EQUAL: WHITE VITREOUS CHINA FIXTURE.WALL HUNG, ELONGATED BOWL ONLY, 1.28 GALLONS PER FLUSH WITH 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 STANDARD AND ADA REQUIREMENTS 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 HARD-WIRED. TRIM: MANUFACTURED BY CHURCH OR APPROVED EQUAL: WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, PROVIDE SUITABLE FIXTURE CARRIER.	1-1/2"			4"	2"
JR-1	ELECTRICAL REQUIREMENTS: 7.6VDC PLUG-IN ACA POWER SUPPLY FOR UP TO 4 VALVES. URINAL, ADA COMPLIANT: 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 FOR MOUNTING HEIGHTS TO MEET STANDARD AND ADA REQUIREMENTS. 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	1"			2"	2"

	PLUMBING FIXTURE SCHE	ייוח:	F			
MODEL NU FURTHER	IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACT IMBER AND DESCRIPTION, THE DESCRIPTION SHALL PREVAIL. SUBMIT SHOP DRAWINGS ON EACH OF INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUF/ ER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PI	OR. IF TH THESE IT ACTURER	ERE ARE A EMS. REF	ER TO SPI	ECIFICATIO STRUCTION	NS FOR
MARK	DESCRIPTION		PIPE	SIZE CONN	IECTION	
		COLD	HOT	MIXED		
ET-1	TANK, EXPANSION: REFERENCE PLUMBING SCHEDULES ON SHEET P600.	WATER	WATER	WATER	WASTE	VENT
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. LOAD RATING CLASSIFICATIONS: GRATES AND TOP RIMS SHALL BE TO MEET SAFE LOAD OF: LIGHT				3"	2"
FS-1	DUTY, UNDER 2,000 POUNDS. 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) 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				3"	2"
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" 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				4"	

GAS FIRED DOMESTIC WATER HEATER SCHEDULE														
	MANUFACTURER	MODEL NUMBER	AREA	ENERGY		TAN	NK SIZE		INPUT	EFFICIENCY	VOLTAGE	AMPERAGE	RECOVERY	NOTES
TAG			SERVED	SOURCE	GALLONS	DIAMETER	HEIGHT	WEIGHT	МВН		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
		SE WITH 140 DEGREE OPEI		 E.										

2.

SET TEMPERATURE CONTROL TO FACTORY MINIMUM OF 110 DEGREES. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE 4" PVC OUTSIDE INTAKE PIPING AND 4" PVC FLUE WITH FACTORY APPROVED TERMINATION KITS. FURNISH WITH IMMERSION THERMOSTATS.

	DOMESTIC WATER THERMAL EXPANSION TANK SCHEDULE											
	MANUFACTURER	R MODEL NUMBER	NODEL NUMBER TANK RATING	VOLUME (GALLONS)		TANK		WEIGHT	SYSTEM	INITIAL FILL	SYSTEM	NOTES
AG				TANK	ACCEPTANCE	DIAMETER	HEIGHT	AT CAPACITY *	CONNECTION	PRESSURE		
T-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
ET-1	AMTROL	ST-5	NON-ASME	2.0	0.9	8.0	13.0	13 LBS.	3/4"	NOTE 1	GWH-1	

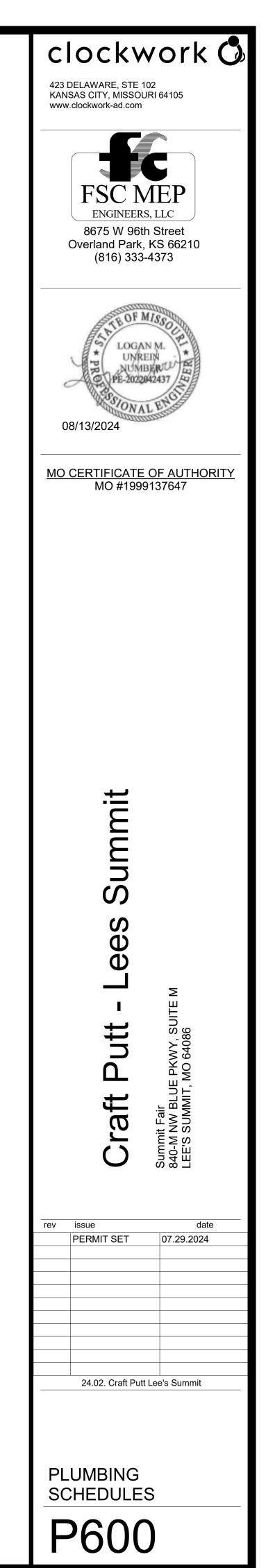
THE CHARGE TO THE STATIC SUPPLY PRESSURE AT THE TANKS LOCATION.

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.

TAG		OT WATE MANUFACTURER	MODEL		ONDITIONS			IOTOR		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. FURN	IISHED WITH AQUAS	FOR USE IN POTABLE FAT AND 24 HOUR TIMEF E MOUNTS *ND BY MASC	R.		WITH FLEXIBLE	CONNECTIO	N AT INLET	AND OUTLE	t of pump.		



	PIF	PING	MATE	ERI		SCHE	EDUL	E				
	PIPING						FIT	TINGS	MAX. WO	ORKING	FIELD TES	ST
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 CI-CAST IRON CP- COPPER	S-BRAZED JOINT SJ-SOLDER JOINT THRD-THREADED	<u>.</u>									-	

CS- CARBON STEEL MI-MALLEABLE IRON

`

WELD-WELDED WC - WROUGHT COPPER

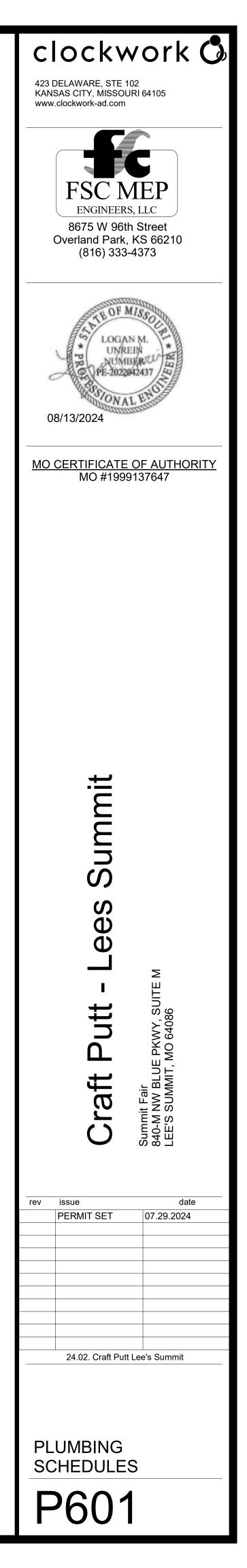
# **PIPING MATERIAL SCHEDULE**

	PIPING						FITTIN	GS	MAX. WO	JRKING	
SYSTEM	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP. (DEG. F.)	)
SANITARY GREASE WASTE (ABOVE GRADE)	ALL	N/A	N/A	N/A	A74	CI	CI	NH	4.33	-	
SANITARY VENT (ABOVE GRADE)	ALL	N/A	N/A	N/A	A 888	CI	CI	NH	4.33	-	
CONDENSATE INDIRECT WASTE (ABOVE GRADE)	ALL	N/A	40	N/A	D 2665	PVC	PVC	SF	4.33	-	
NOTES:											
BLK- BLACK	S-BRAZED JOIN	Г	SF - SOCKE	<b>FITTING</b>	SS						
CI-CAST IRON	SJ-SOLDER JOIN	IT	NH-NO HUB								
CP- COPPER	THRD-THREADE	D									
CS- CARBON STEEL	WELD-WELDED										
MI-MALLEABLE IRON	PVC										

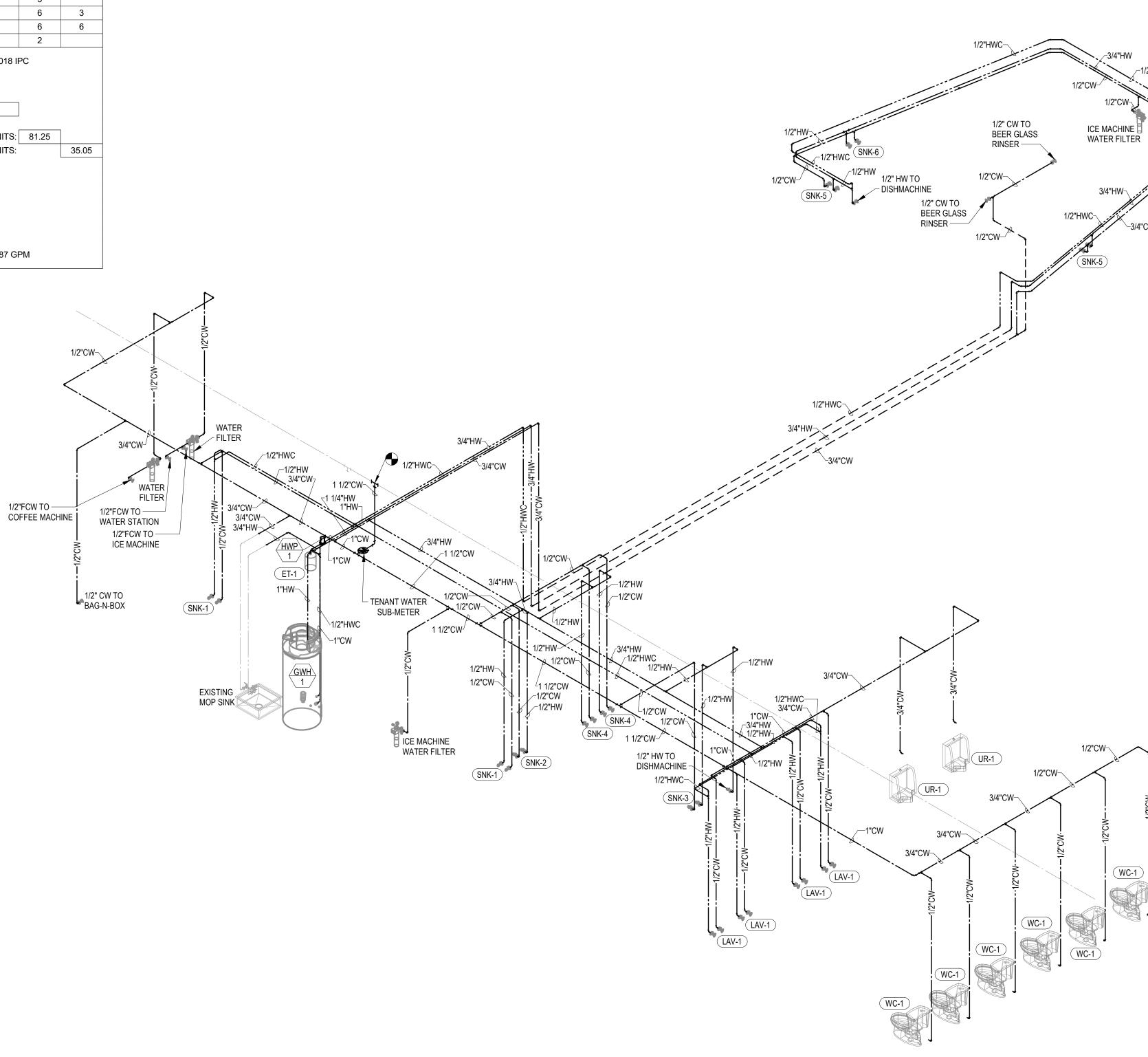
# **INSULATION MATERIAL SCHEDULE**

				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
10750									
NOTES: 1. 40 DEGREES F. AND									
1.40 DEGREES F. AND	ADUVE.								

FIELD TEST	
PRESSURE (PSI)	TIME
4.33	2 HR
4.33	2 HR
4.33	2 HR



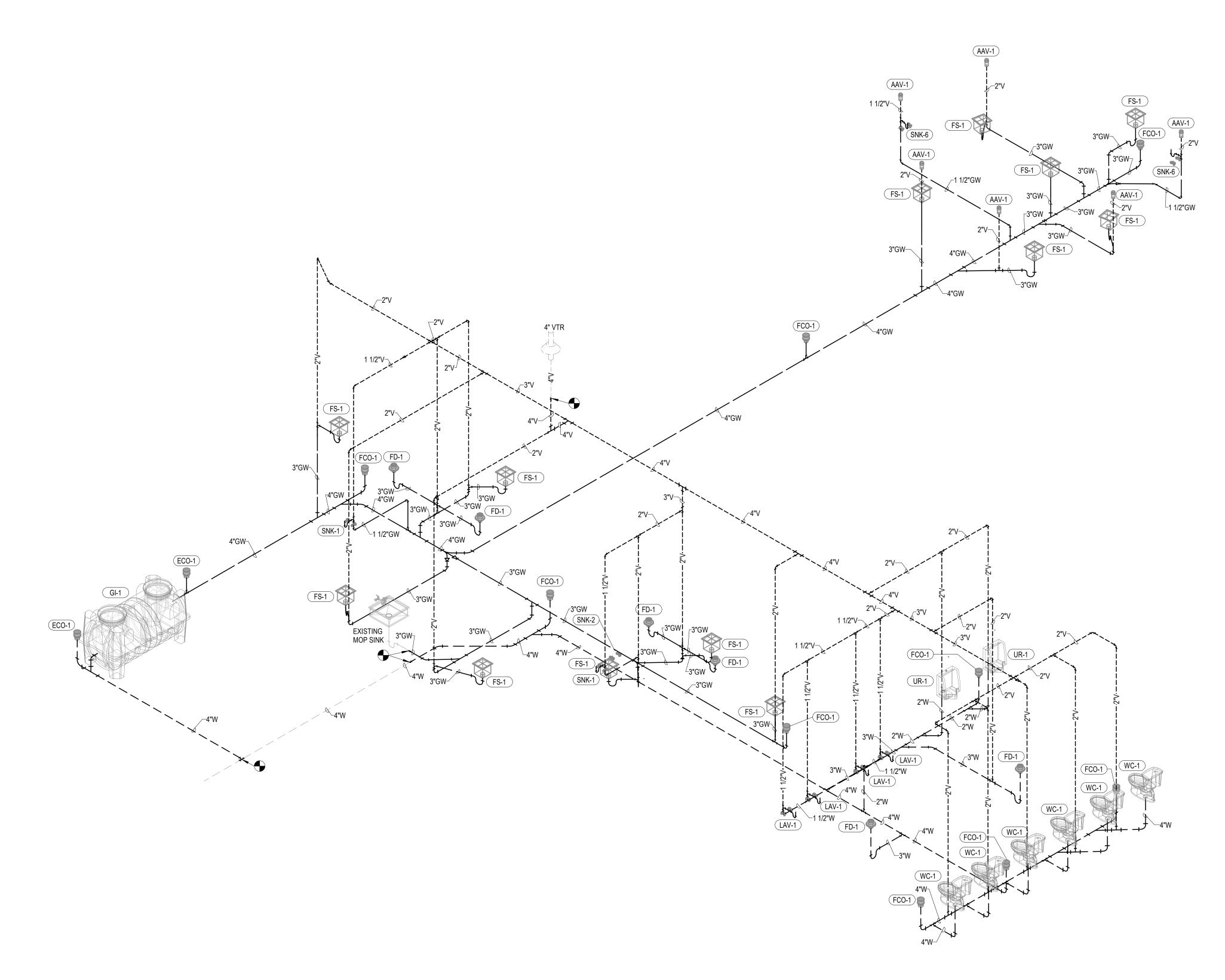
							TO	TAL
FIXTURE TYPE	FIXTURE BRANCH MINIMUM (INCHES)	*WSFU	QTY	TOTAL	QTY	TOTAL	CW	HW
* DISHWASHER	1/2	1.4	2	2.80				2.80
RINKING FOUNTAIN	3/8	0.50						
NK (KITCHEN, HOTEL OR RESTAURANT)	3/4	4.0	5	20.00			15	15
NK (LAVATORY)	3/8	2.0	4	8.00			6	6
NK (SERVICE SINK, MOP SINK)	3/4"	3.0	1	3.00			2.25	2.25
RINAL, 3/4" FLUSH VALVE	3/4	5.0	2	10.00			10	
RINAL, 1" FLUSH VALVE	1	10.0						
ATER CLOSET (TANK)	3/8	5.0	6	30.00			30	
ATER CLOSET (FLUSHOMETER TANK)	3/8	2.0						
ATER CLOSET (FLUSH VALVE)	1	40.0						
EMS BELOW NOT LISTED IN CODE TABLES								
B" CONNECTION - COFFEE MACHINE	1/2	1.0	1	1.00			1.00	
B" CONNECTION - ICE MAKER	1/2	1.0	3	3.00			3	
ATER DISPENSER	1/2	1.0	1	1.00			6	3
ND WASH SINK	1/2	2.0	4	8.00			6	6
ER GLASS WASHER	1/2	1	2	2.00			2	
GFU = PUBLIC OR PRIVATE/PUBLIC FIXTUR U = PRIVATE ONLY FIXTURE UNITS PER: 20 TAL FIXTURE UNITS PER FLOOR:				DE (IPC), 20	18 IPC			7
OTAL FIXTURE UNITS:			89		CW FIXTU	IRE UNITS:	81.25	
				- -	HW FIXTU	IRE UNITS:		35.05
OLD WATER SERVICE SIZE @ 5PSI:	VE		1-1/2"	-				
FLUSH VAL	וסר							
FLUSH VAL TANK TYPE FIXTU	IRE			-				
FLUSH VAL TANK TYPE FIXTU XIMUM GPM FLOW:			64.2	-				
FLUSH VAL TANK TYPE FIXTL XIMUM GPM FLOW: FLUSH VAL	VE		64.3	-				
FLUSH VAL TANK TYPE FIXTU XIMUM GPM FLOW:	.VE IRE		64.3 8.7	-				

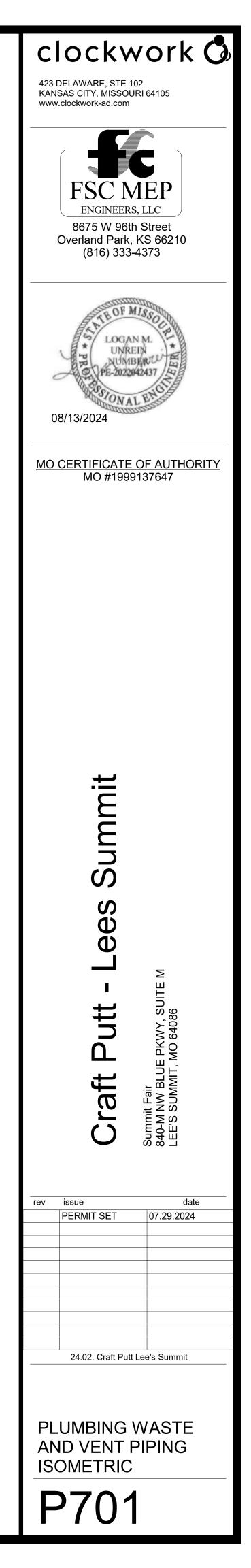


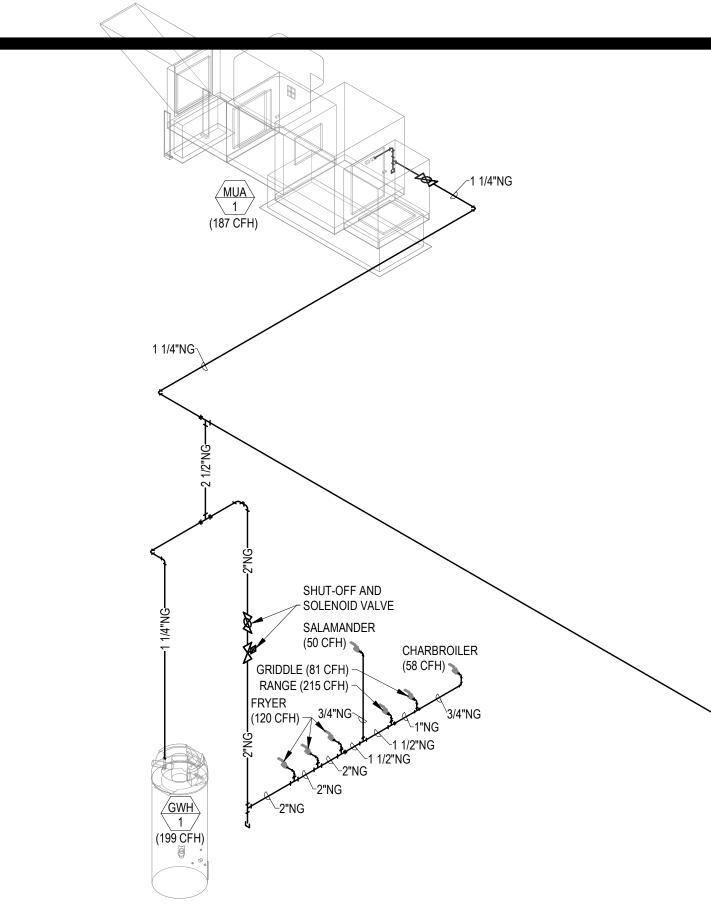












PLUMBING NATURAL GAS PIPING 1 ISOMETRIC

						TOTAL	
EQUIPMENT	LOCATION (ROOMS)	EQUIPMENT	EQUIPMENT	CFH	CFH	CFH PER	NOTES
DESIGNATION		QUANTITY	DESCRIPTION	(EACH)	TOTAL	BRANCH	
MAU-1	ROOFTOP	1	MAKE-UP AIR UNIT	187	187		A
					187	187	
GWH-1	KITCHEN	1	GAS WATER HEATER	199	199		A
					199	199	
FRYER	KITCHEN	3	FRYER	120	360		A
SALAMANDER	KITCHEN	1	SALAMANDER	50	50		
RANGE	KITCHEN	1	RANGE	215	215		
GRIDDLE	KITCHEN	1	GRIDDLE	81	81		
CHARBROILER	KITCHEN	1	CHARBROILER	58	58		
					764	764	

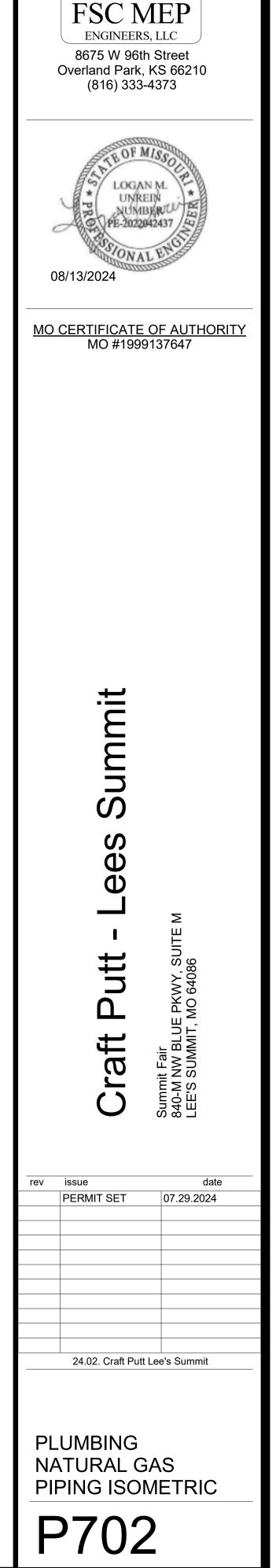
A. 0.25 PSI (7" WATER COLUMN) NATURAL GAS SYSTEM SIZED WITH TOTAL DEVELOPED LENGTH FROM GAS METER TO MOST REMOTE REGULATOR OF 200' WITH A PRESSURE DROP OF 0.5" WATER COLUMN.

B. EQUIPMENT SERVED BY REGULATOR PROVIDED BY THE TENANT.

∕-2 1/2"NG

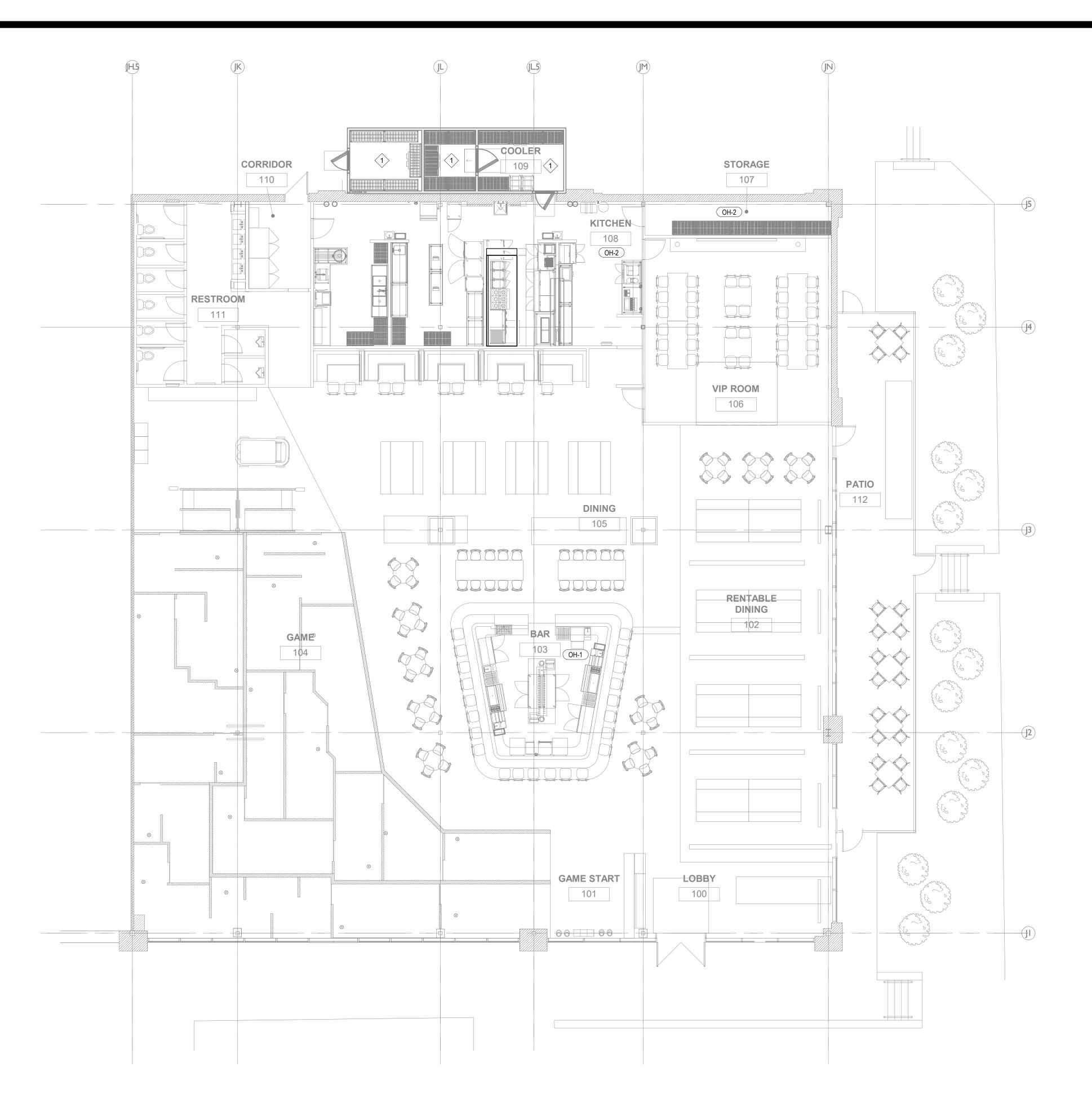
2 1/2"NG

NEW UTILITY GAS METER



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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.

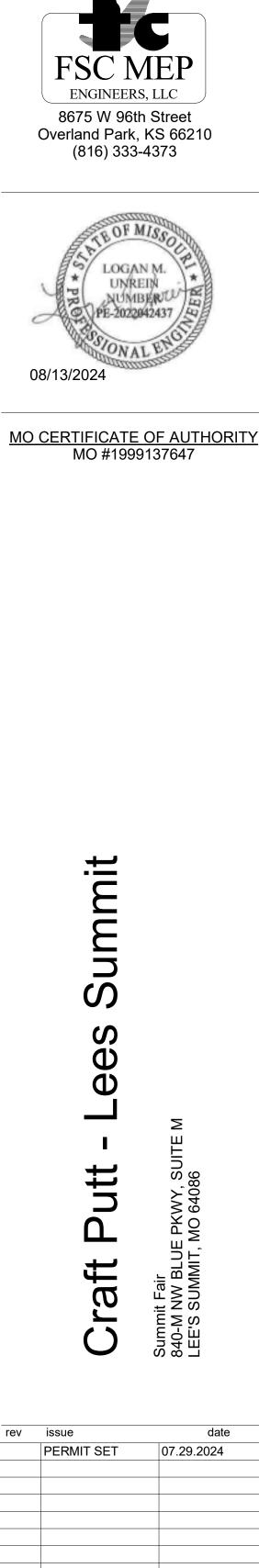
# PLAN NOTES: (#)

1. 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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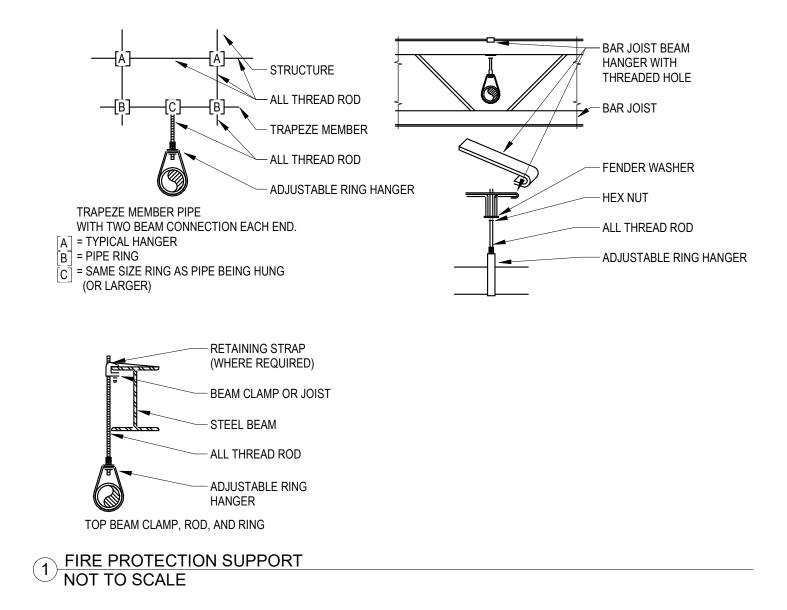
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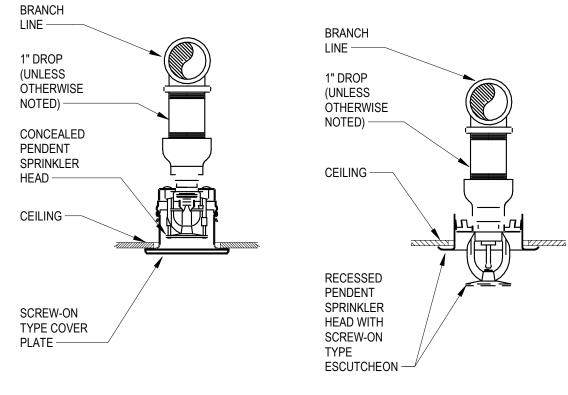
KANSAS CITY, MISSOURI 64105

FIRE PROTECTION	

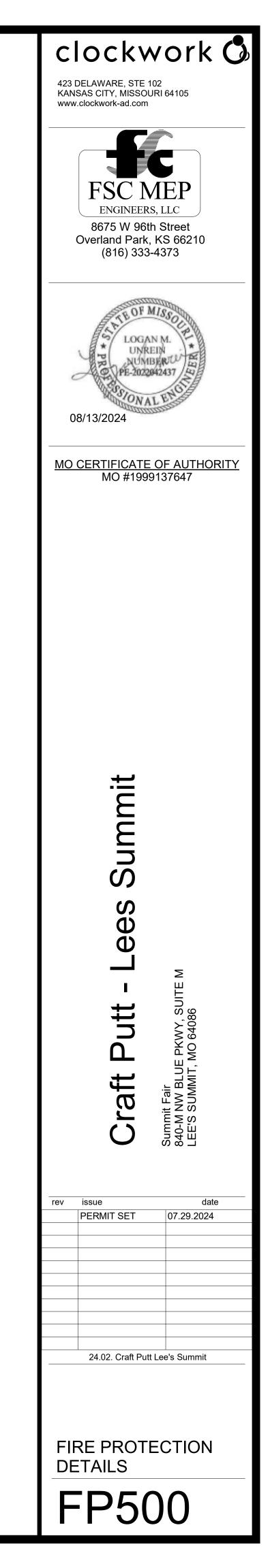
24.02. Craft Putt Lee's Summit

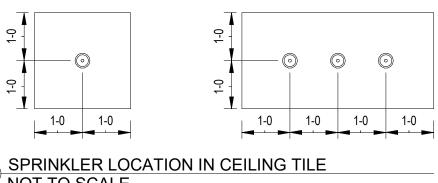
NEW WORK PLAN **FP100** 

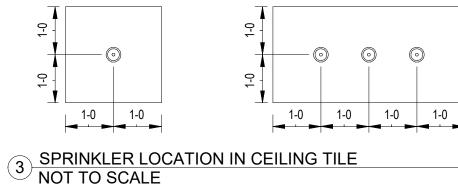


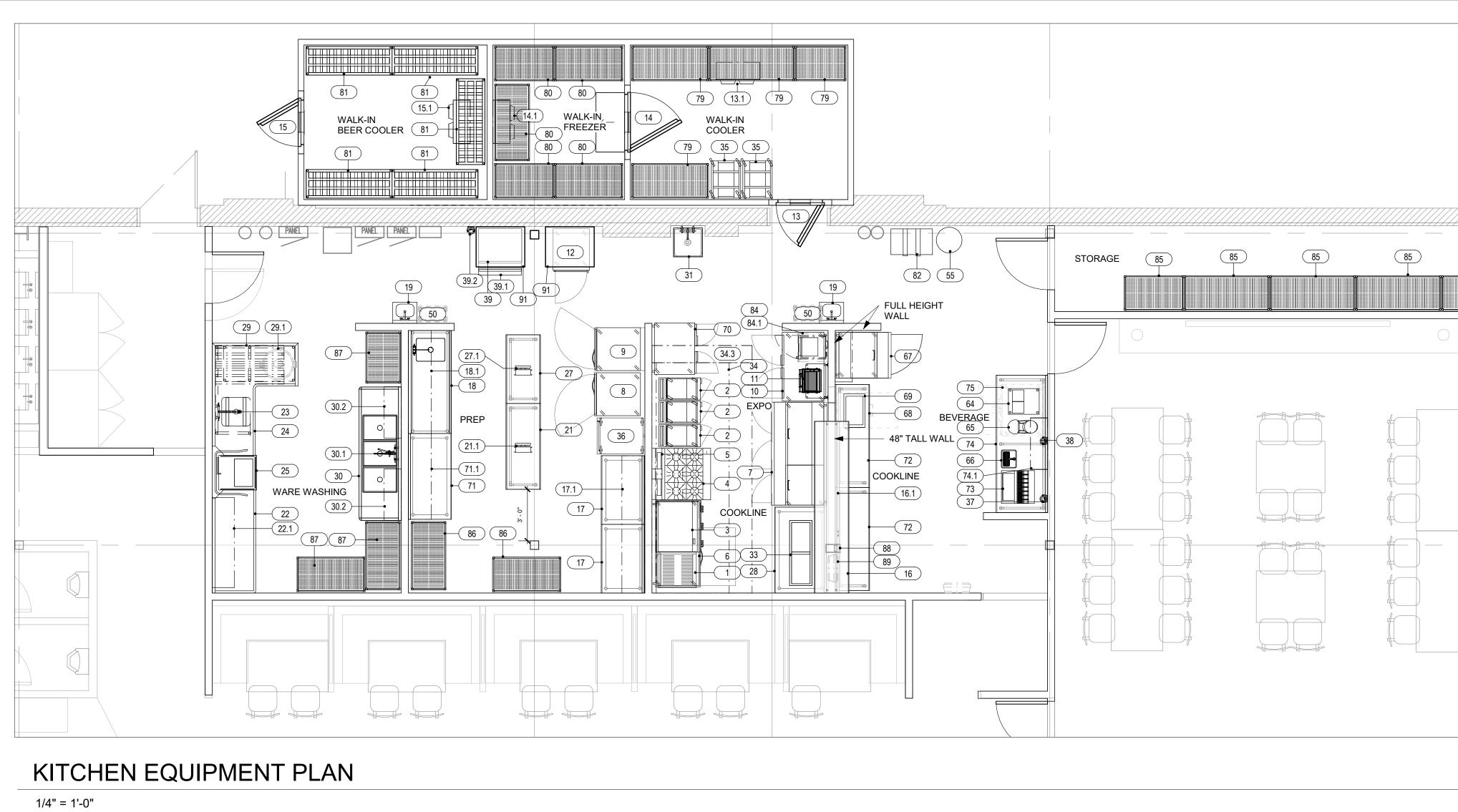


2 FIRE PROTECTION HEAD TYPE NOT TO SCALE



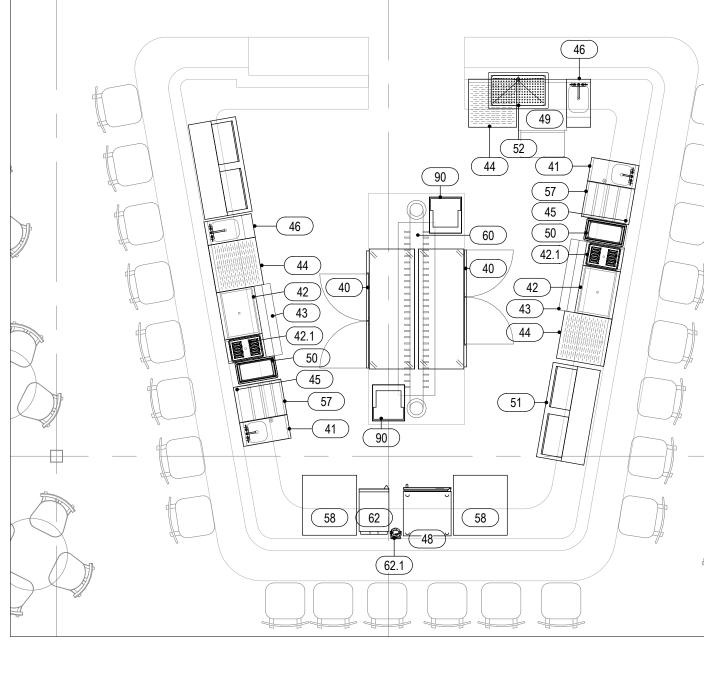






FANS LOCATED	ON BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR	
		REFRIGERATION SC
	34.1	CONDENSING UNITS LOCATED ON CONCRET SEE ARCHITECTURAL DRAWING FOR EXACT
	34.2	(13.2) (14.2) (15.2)
FER TO MANUFAC L EXHAUST/SUPPL	TURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR	REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR E ALL REFRIGERATION EQUIPMENT.

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1/4" = 1'-0"

# CHEDULE

TE SLAB/ BUILDING ROOF. LOCATIONS.

EXACT SIZE AND WEIGHT REQ'S FOR

GENERAL NOTES

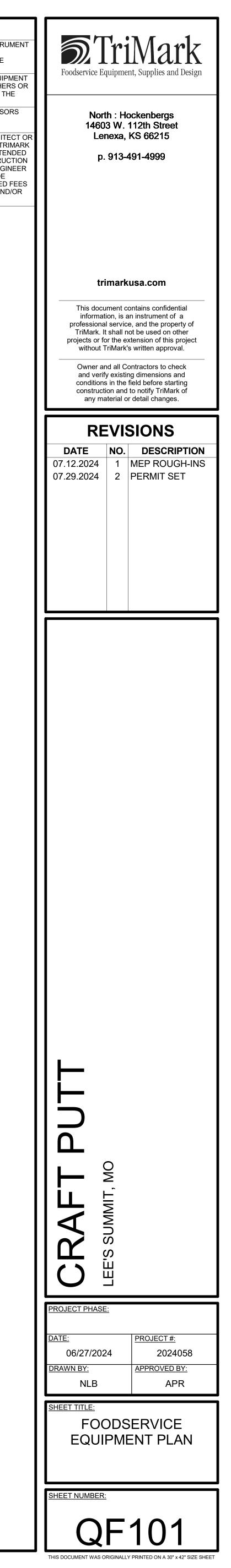
 THESE DRAWINGS ARE TO BE USED AS AN INSTRUMENT OF REFERENCE BY ALL OTHER TRADES AND CONTRACTORS. ALL TRADES SHALL VERIFY THE INFORMATION AS INDICATED ON THESE PLANS.
 DIMENSIONS AND REQUIREMENTS FOR ALL EQUIPMENT

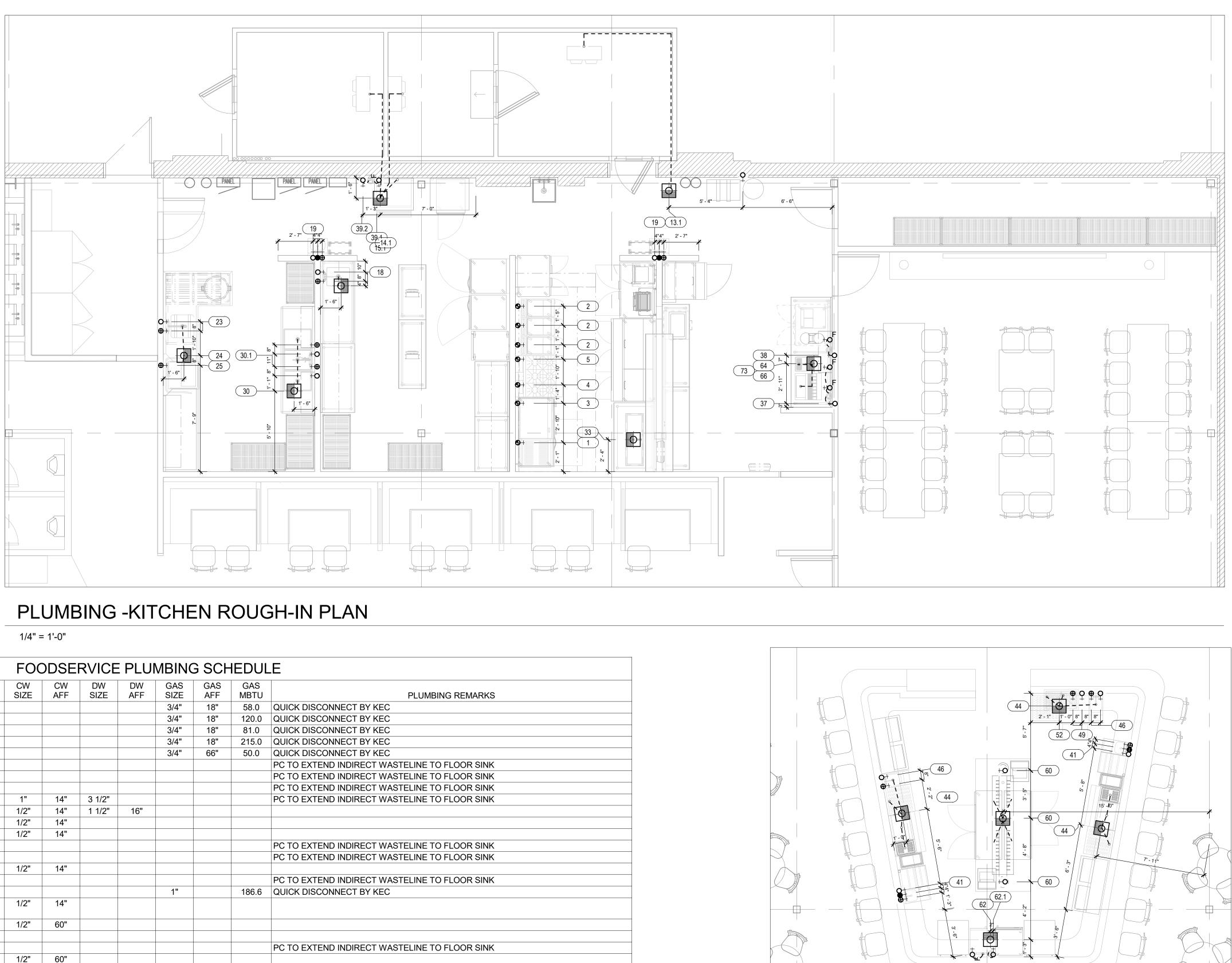
THAT IS LISTED AS EXISTING, PROVIDED BY OTHERS OR PROVIDED BY OWNER, MUST BE VERIFIED WITH THE APPROPRIATE PARTIES.
3 ARCHITECT TO LOCATE ALL REMOTE COMPRESSORS AND CONDENSERS IN ACCORDANCE WITH

 MANUFACTURER'S INSTRUCTIONS.
 TRIMARK DOES NOT EMPLOY A LICENSED ARCHITECT OR 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

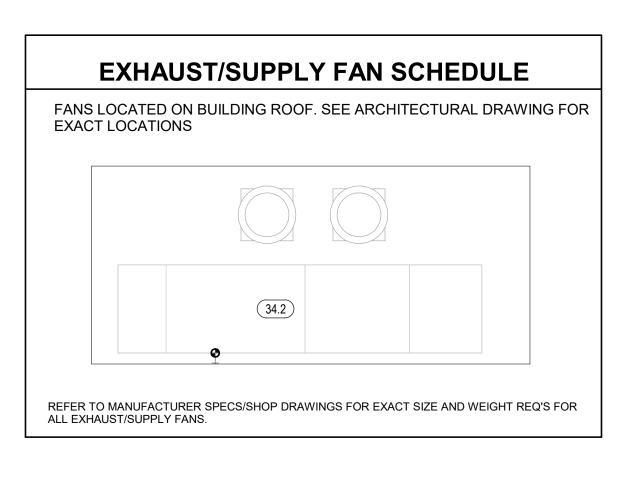
THAT IS EMPLOYED BY THE OWNER. FINAL CODE COMPLIANCE, PLAN SUBMITTAL AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.

ITEM	FC	DODSERVICE EQUIPMENT SCHEE	DULE
NO.	QTY.		REMARKS
1 2	1 3	CHARBROILER, 24" COUNTERTOP, GAS FRYER, GAS	
3	1	GRIDDLE, 36" COUNTERTOP, GAS RANGE, 36", 6-BURNER, GAS	
5	1	SALAMANDER, GAS	
6 7	1	REFRIGERATED BASE 60" MEGA TOP SANDWICH/SALAD PREP REFRIGRATOR	
8	1	REFRIGERATOR, REACH-IN	
9 10	1 1	FREEZER, REACH-INREFRIGERATOR, WORKTOP 48"	
10.1	2	WALL SHELVING, EPOXY, STACKED (14X24)	MOUNT AT 50" & 62" AFF
11	1	SANDWICH/PANINI GRILL	
12 13	1	MOBILE HEATED CABINET WALK-IN COOLER	
13.1	1	EVAPORATOR COIL - COOLER	
13.2 14	1	WALK-IN COOLER CONDENSING UNIT WALK-IN FREEZER	
14.1 14.2	1	EVAPORATOR COIL - FREEZER	
14.2	1	WALK-IN COOLER CONDENSING UNIT WALK-IN COOLER	
15.1 15.2	1	EVAPORATOR COIL - BEER COOLER WALK-IN COOLER CONDENSING UNIT	
16	1	PASS-THRU SHELF 120"	
16.1 17	1	HEAT LAMP WORK TABLE (30X48)	
17.1	1	STAINLESS STEEL WALL SHELVES	MOUNT AT 60" AFF
18 18.1	1 1	WORK TABLE W/ PREP SINK (30 X 72) STAINLESS STEEL WALL SHELVES	MOUNT AT 60" AFF
19	2	WALL MOUNT HANDSINK W/ FAUCET	
20 21	1 1	SPARE NUMBER WORK TABLE (24 X 60)	
21.1	1	CORD REEL	
22 22.1	1	CLEAN DISHTABLE SOLID SORTING SHELVES - WALL MOUNTED	
23 24	1	PRE-RINSE FAUCET W/ ADD ON FAUCET SOILED DISHTABLE W/ PRE-RINSE	
24 25	1	SOILED DISHTABLE W/ PRE-RINSE       DOOR TYPE DISHMACHINE	
26 27	1	SPARE NUMBER WORK TABLE (24 X 48)	
27.1	1	CORD REEL	
28 29	1 1	WORK TABLE (36 X 60) TABLE MOUNT DOUBLE SIDED RACK SHELF	
29.1	1	TRASH CONTAINER	
30 30.1	1	THREE COMPARTMENT SINK PRE-RINSE FAUCET	
30.2	4	WALL SHELVES - DOUBLE STACKED	<varies></varies>
31 32	1	MOP SINK W/ FAUCET - EXISTING SPARE NUMBER	EXISTING
33	1	HOT FOOD WELLS, DROP-IN, ELECTRIC	
34 34.1	1 2	TYPE I EXHAUST HOODROOF MOUNTED EXHAUST FAN	
34.2	1	MAKE UP AIR UNIT CONTROL PANEL	
34.3 35	2	BUN PAN RACK	
36 37	1	HEATED HOLDING PROOFING CABINET, HALF HEIGHT WATER FILTER, ICE MACHINE AND WATER STATION	
38	1	WATER FILTER, COFFEE MACHINE	
39 39.1	1	ICE MAKER, CUBE	
39.2	1	WATER FILTER, ICE MACHINE	
40 41	2	BACK BAR COOLER 60" HAND SINK	
42	2	Ice Bin	
42.1 43	2	Underbar Ice Bin UNDERBAR BASICS™ SPEED RAIL, DOUBLE TIER,	
44	3	24"W X 8-1/8"D X 6-1/2"H, (10-12) BOTTLE CAPACITY DRAIN BOARD W/ STORAGE	
45	2	SODA GUN MOUNTED UNDERBRACKER - BY VENDOR	BY VENDOR
46 47	2	DUMP SINK SPARE NUMBER	
48	1	WINE REFRIGERATOR, UNDERCOUNTER	
49 50	1 4	UNDERCOUNTER DISHWASHER TRASH RECEPTACLE	
51	2	BOTTLE COOLER	
52 53-54	1	BEVERAGE DRAIN TROUGH SPARE NUMBER	
55	1	CO2 TANK - BY OTHERS	BY OTHERS
56 57	1 2	SPARE NUMBER LIQUOR DISPLAY	
58 59	2	UNDERCOUNTER FREEZER SPARE NUMBER	
60	1	BEER TAPS W/ DRAINBOARD	
61 62	1	SPARE NUMBER ICE MAKER W/ BIN, NUGGET	
62.1	1	WATER FILTER, ICE MACHINE	
63 64	1 1	SPARE NUMBER COFFEE BREWER - BY OTHERS	BY OTHERS
65	1	COFFEE GRINDER-BY OTHERS	BY OTHERS
66 67	1 1	WATER STATION REFRIGERATOR, SANDWICH PREP TABLE	
67.1 68	1	WALL SHELVES - DOUBLE STACKED DRAWER WARMERS ON CASTERS	MOUNT AT 60" AFF
69	1	FOOD PAN WARMER, COUNTERTOP	
70 71	1 1	FREEZER, WORKTOP WORK TABLE (30X60)	
71.1	1	STAINLESS STEEL WALL SHELVES	MOUNT AT 60" AFF
72 73	2	WORK TABLE (24X72) SODA/ICE DROP IN DISPENSER-BY OTHERS	BY OTHERS
74	1	WORK TABLE (36 X 96)	-
74.1 75	2 1	WALL SHELVES - DOUBLE STACKED REFRIGERATOR, UNDERCOUNTER	<varies></varies>
76-78 79	1	SPARE NUMBER WIRE SHELVING UNIT, COOLER STORAGE	
80	5	WIRE SHELVING UNIT, FREEZER STORAGE	
81 82	5	KEG STORAGE RACK BAG-N-BOX SYSTEM - BY OTHERS	BY OTHERS
83	1	SPARE NUMBER	
84 84.1	1	OVEN, MICROWAVE STAINLESS MICROWAVE SHELF	MOUNT AT 60" AFF
85	5	WIRE SHELVING UNIT, DRY STORAGE	
86 87	2	WIRE SHELVING UNIT, DRY STORAGE WIRE SHELVING UNIT, POTS AND PANS	
88	1	POS PRINTER	
89 90	2	POS MONITOR POS AT BAR	
91	2	GLYCOL SYSTEM	





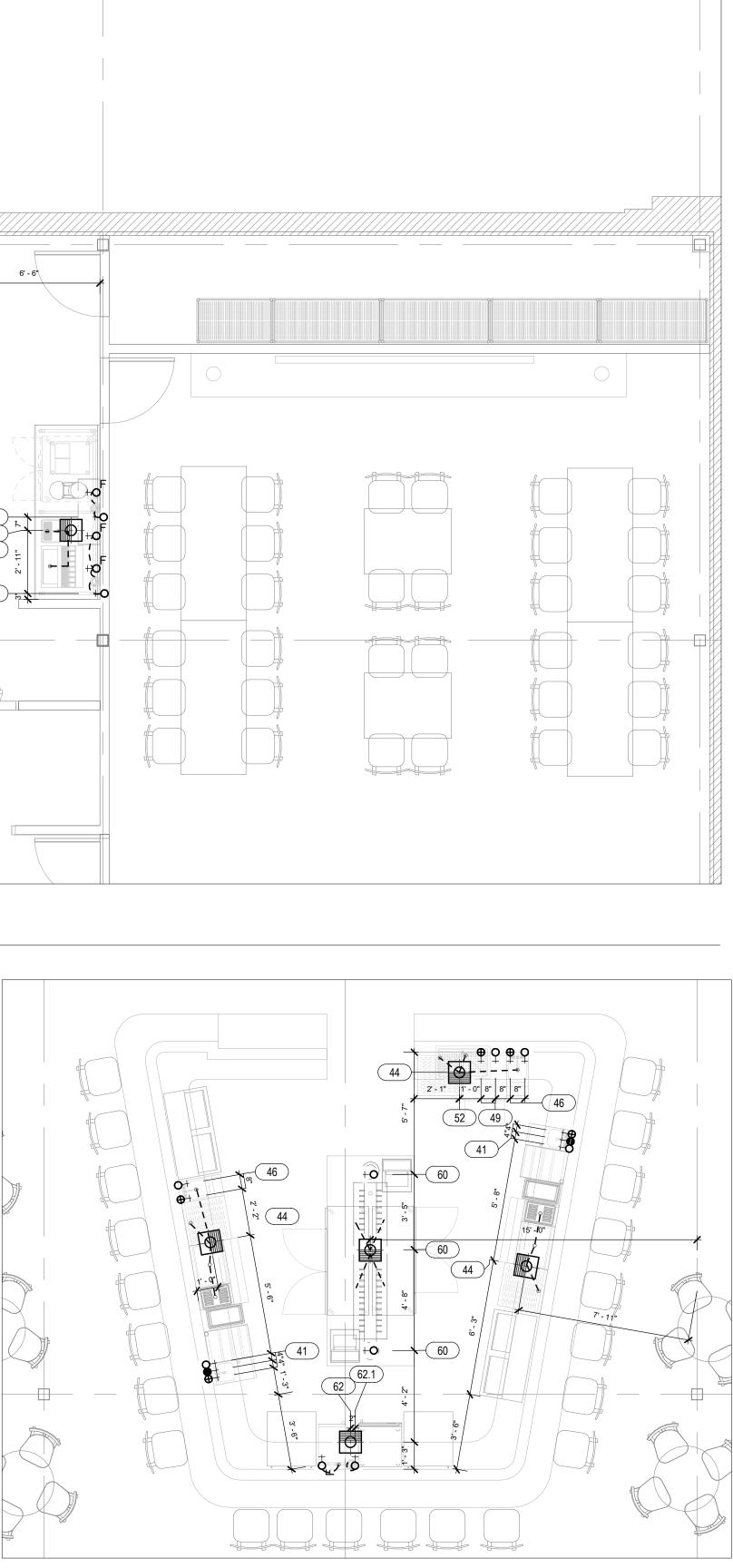
					FO	DDSE	RVICE		MBING	G SCF	IEDUI	LE
ITEM NO.	QTY.	DESCRIPTION	HW SIZE	HW AFF	CW SIZE	CW AFF	DW SIZE	DW AFF	GAS SIZE	GAS AFF	GAS MBTU	PLUMBING REMARKS
1	1	CHARBROILER, 24" COUNTERTOP, GAS							3/4"	18"	58.0	QUICK DISCONNECT BY KEC
2	3	FRYER, GAS							3/4"	18"	120.0	QUICK DISCONNECT BY KEC
3	1	GRIDDLE, 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										



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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 LÒCAL CODES.



1/4" = 1'-0"

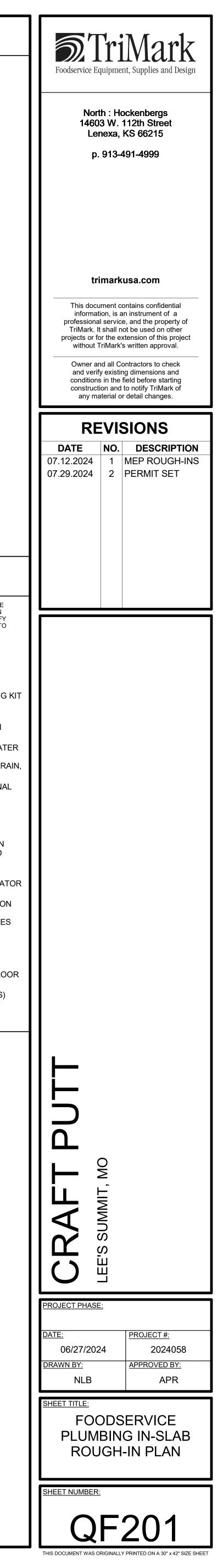
PLUMBING - BAR ROUGH-IN PLAN

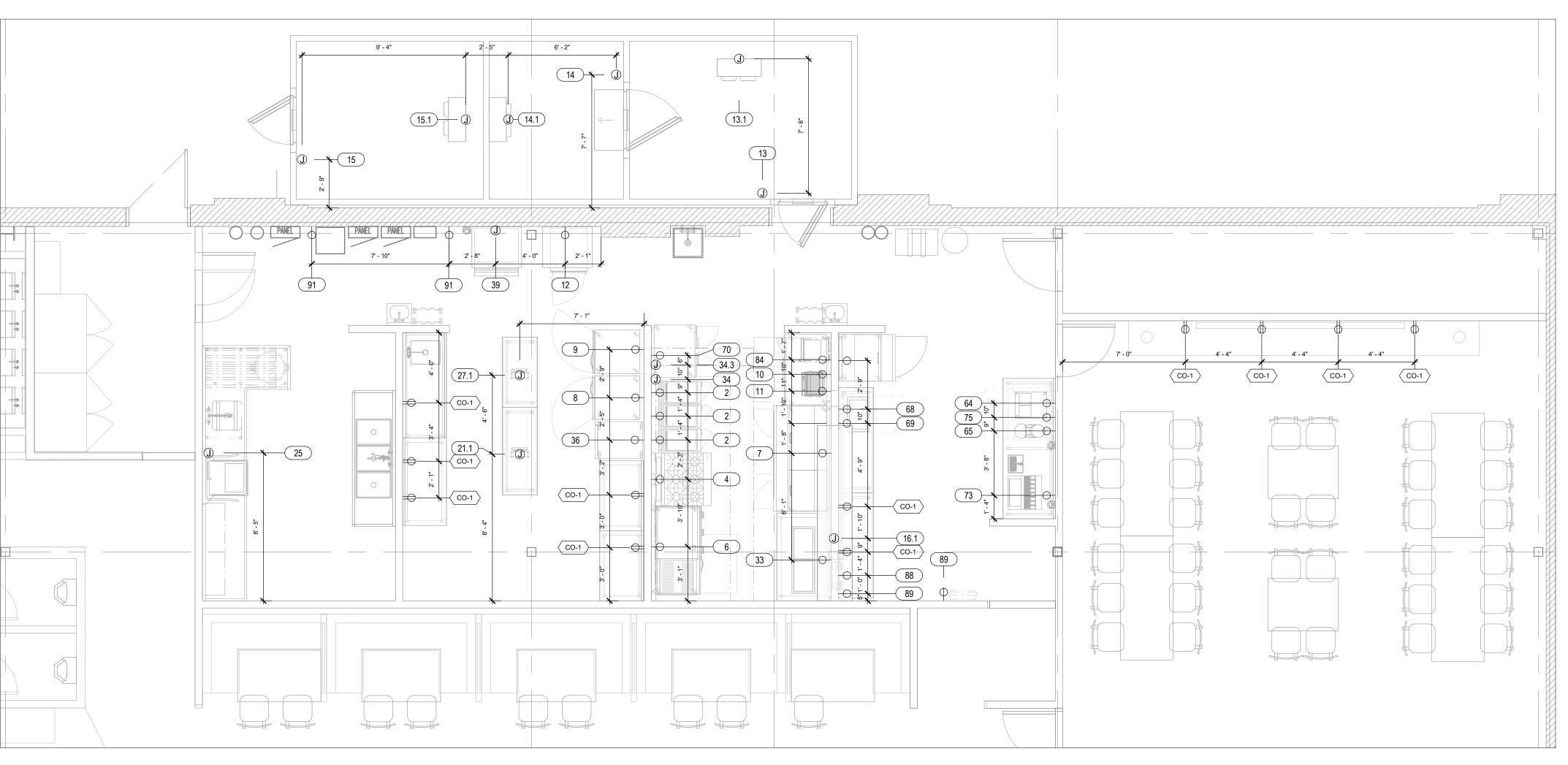
	PLUMBING LEGEND
+⊕	HOT WATER
S +⊕	HOT WATER - SOFTENED
+0	COLD WATER
S +O	COLD WATER - SOFTENED
<b>F</b> +O	FILTERED WATER
+●	DIRECT WASTE
	FLOOR SINK - THREE-QUARTER GRATE
	FLOOR SINK - HALF GRATE
$\overline{\bigcirc}$	FLOOR SINK - NO GRATE
-	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	HUB FLOOR DRAIN
	AREA FLOOR DRAIN - SLOPED PER CODE
+•	GAS DROP FROM MANIFOLD
$\bowtie$	FIRE SUPPRESSION GAS SHUT-OFF VALVE
+⊖ CS	CHILLED WATER
+ <del>●</del> CR	CHILLED WATER RETURN
<b><del>\$</del>SS</b>	STEAM SUPPLY
⇔CR	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 FINAL ROUGH-IN.

- A. INSTALL KEC (SECTION 114000) FURNISHED FLOOR TROUGH(S). B. INSTALL KEC (SECTION 114000) FURNISH MOP SINK(S). 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. MANIFOLD DRAINS TO SINGLE CONNECTION.
- F. FURNISH AND INSTALL BALL VALVE IN DRAIN LINE. VALVE TO BE IN EASILY ACCESSIBLE LOCATION.
- INTERPLUMB BETWEEN FILTER AND EQUIPMENT. PIPING FROM WATER FILTER OUTLET TO POINTS OF USE SHALL BE CONCEALED WITHIN WALLS AND CEILINGS. EXTEND DRAIN(S) TO FLOOR SINK/FLOOR DRAIN, IF REQUIRED.
- H. CONNECT MIN. 110°F HOT WATER SUPPLY TO BUILT-IN OR EXTERNAL (70° RISE) BOOSTER HEATER. WHEN EXTERNAL, INSTALL TEMPERATURE/PRESSURE GAUGE(S) AS REQ'D AND EXTEND TO DISHWASHER INLET.
- 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. REFRIGERATION CONTRACTOR SHALL PROVIDE WALK-IN EVAPORATOR
- CONDENSATE DRAIN(S) PER REFRIGERATION GENERAL REQS. 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. 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.
- VERIFY EXACT LOCATION AND QUANTITY OF AREA FLOOR DRAIN(S) WITH THE PLUMBING ENGINEER.





# KITCHEN ELECTRICAL ROUGH-IN PLAN

1/4" = 1'-0"

		FOODSEF	RVICE	ELEC	TRICA	L SC	HEDU	LE
ITEM NO.	QTY.	DESCRIPTION	VOLTS	PHASE	AMPS	TYPE	TYPE AFF	ELECTRICAL REMARKS
2	3	FRYER, GAS	120	1	5.0	SR	24"	
4	1	RANGE, 36", 6-BURNER, GAS	120	1	4.0	SR	24"	
6	1	REFRIGERATED BASE 60"	120	1	1.7	SR	24"	
7	1	MEGA TOP SANDWICH/SALAD PREP REFRIGRATOR	120	1	5.4	SR	24"	
8	1	REFRIGERATOR, REACH-IN	120	1	2.0	SR	48"	
9	1	FREEZER, REACH-IN	120	1	5.0	SR	48"	
10	1	REFRIGERATOR, WORKTOP 48"	120	1	2.2	SR	24"	
11	1	SANDWICH/PANINI GRILL	240	1	15.0	SR	48"	
12	1	MOBILE HEATED CABINET	120	1	16.7	SR	24"	
13	1	WALK-IN COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
13.1	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	1	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	1	HEATED HOLDING PROOFING CABINET, HALF HEIGHT	120	1	16.7	SR	24"	
39	1	ICE MAKER, CUBE	120	1	12.0	JB	60"	
40	2	BACK BAR COOLER 60"	120	1	2.2	SR	00	FLOOR MOUNT RECEPTACLE
48	1	WINE REFRIGERATOR, UNDERCOUNTER	120	1	2.5	SR	24"	
49	1	UNDERCOUNTER DISHWASHER	120	1	15.0	JB	24"	
51	2	BOTTLE COOLER	120	1	5.5	00	24"	
58	2	UNDERCOUNTER FREEZER	120	1	0.8	SR	24"	
62	2 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	1	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"	BTOTHERS - VERIFT ROUGH-INS
	1	DRAWER WARMERS ON CASTERS	120	1		SR	24	
68	1	FOOD PAN WARMER, COUNTERTOP	120	1	5.3 10.0	SR	24 44"	MOUNT HORIZONTAL
69	1			1			24"	
70	 		120	   4	4.0	SR		
73		SODA/ICE DROP IN DISPENSER-BY OTHERS	120		15.0	SR	48" 24"	BY OTHERS - VERIFY ROUGH-INS
75			120		2.0	SR		
84	1		208		20.0	SR	60"	
88	1	POS PRINTER	120	1	15.0	SR	24"	
90	2	POS AT BAR	120	1	16.0	SR	18"	FLOOR MOUNT RECEPTACLE
91	2	GLYCOL SYSTEM	208	1	8.0	SR	80"	VERIFY ROUGH-INS WITH SHOP DRAWINGS AND INSTALLE

# CONVENIENCE OUTLET SCHEDULE

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

# **REFRIGERATION SCHEDULE**

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

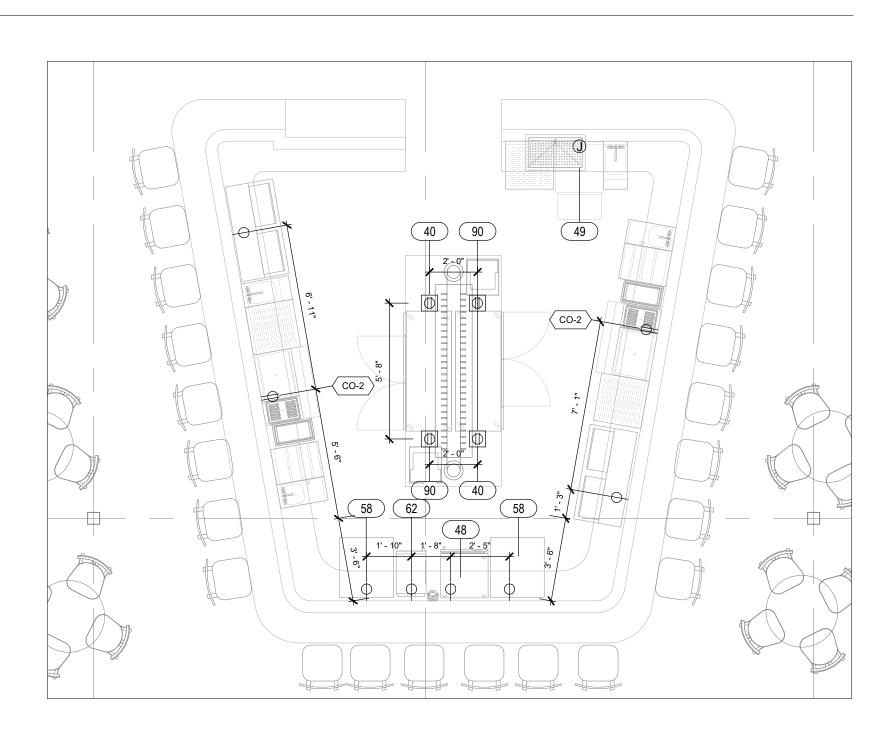
	(13.2)	14.2	(15.2)
	0	J	J
REFER TO MANUFAC	TURER SPE	CS/SHOP DRAW	INGS FOR EX

ALL REFRIGERATION EQUIPMENT.

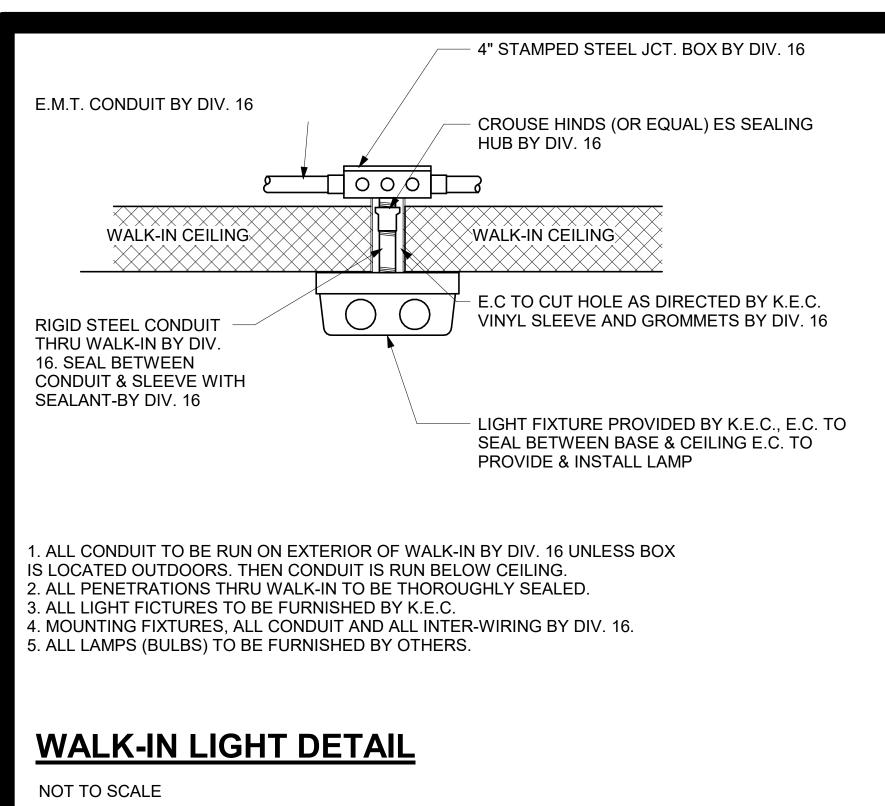
FOODSERVICE DRAWINGS INDICATE ELECTRICAL ROUGH-IN/CONNECTION POINTS ONLY FOR EQUIPMENT SPECIFIED UNDER THE KITCHEN EQUIPMENT (SECTION 114000) CONTRACT, ANY ADDITIONAL ELECTRICAL REQUIREMENTS ARE NOT INDICATED ON FOODSERVICE DRAWINGS.

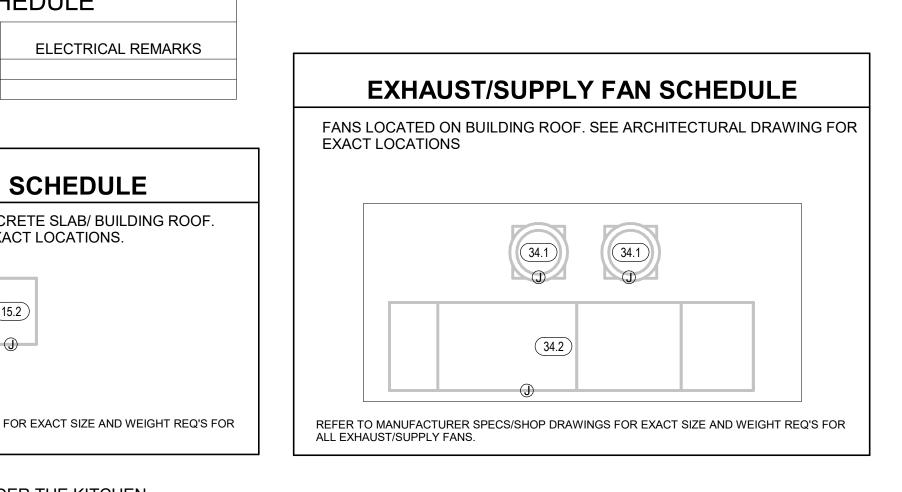
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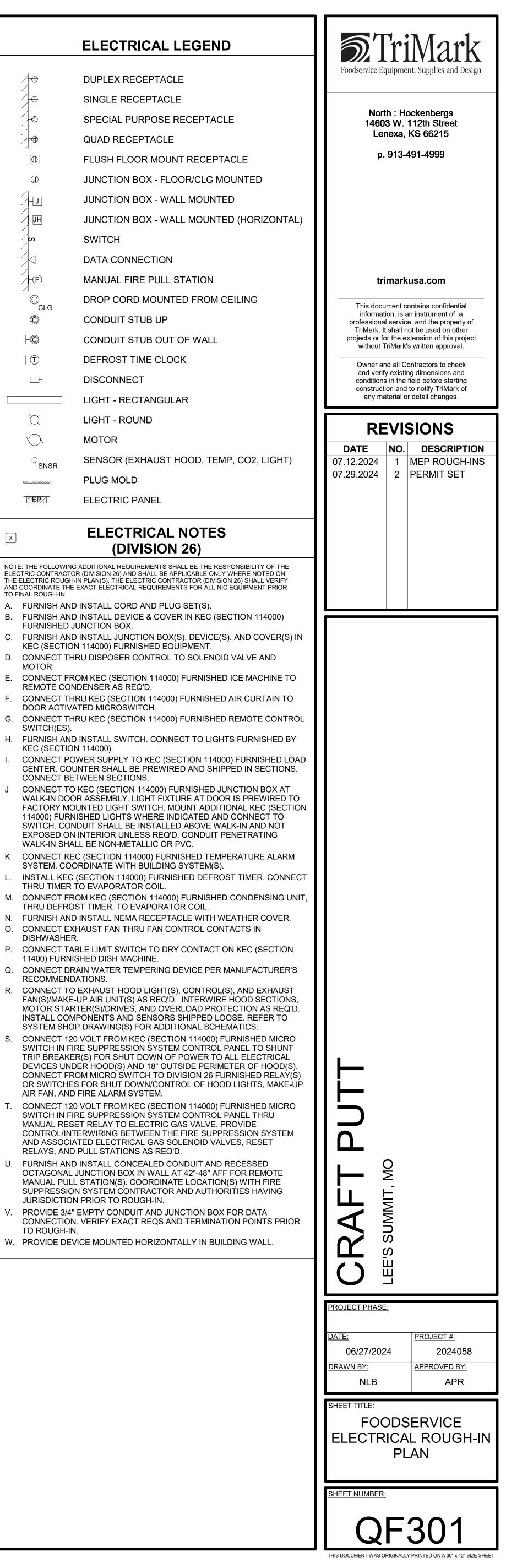






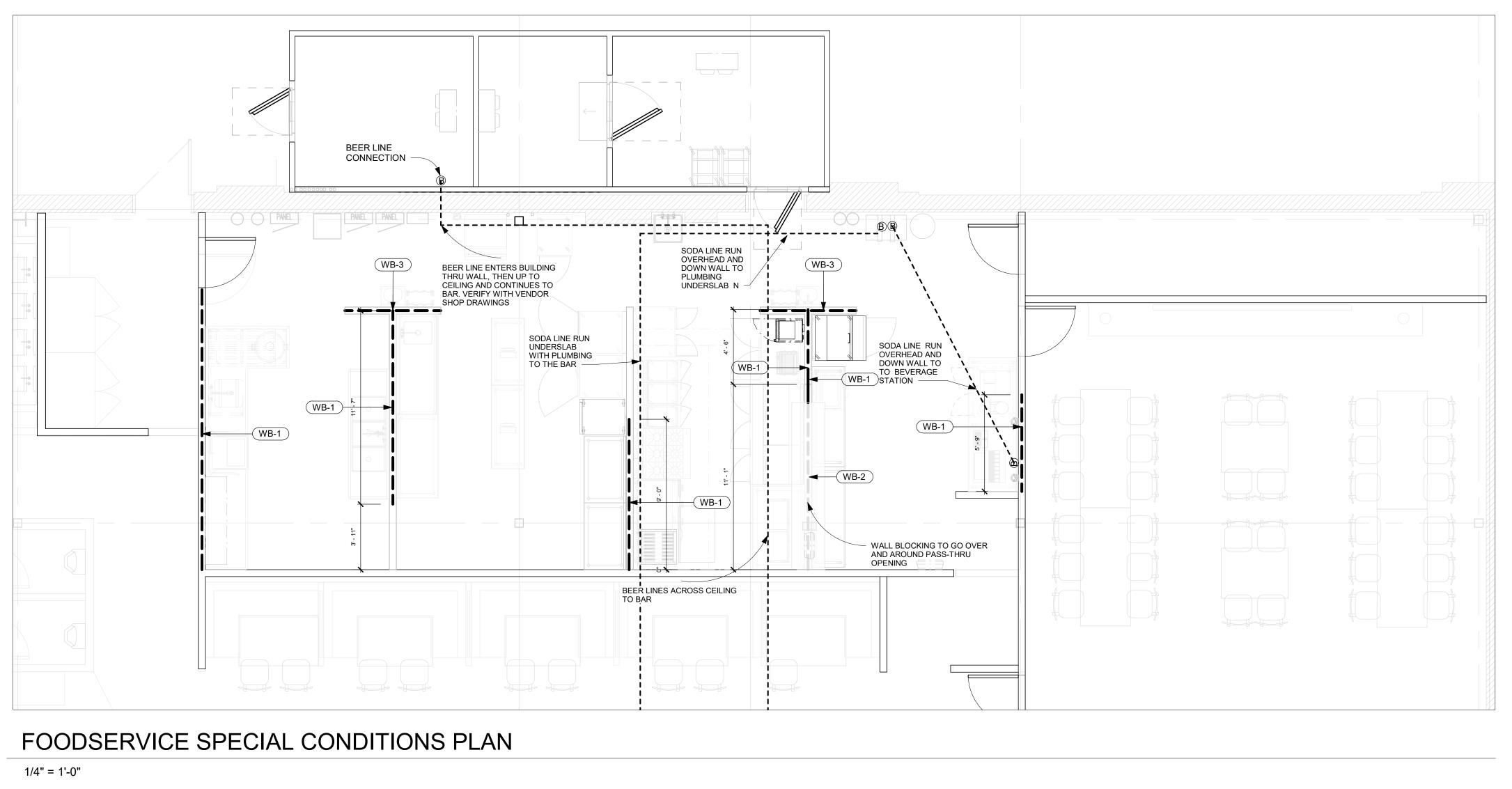


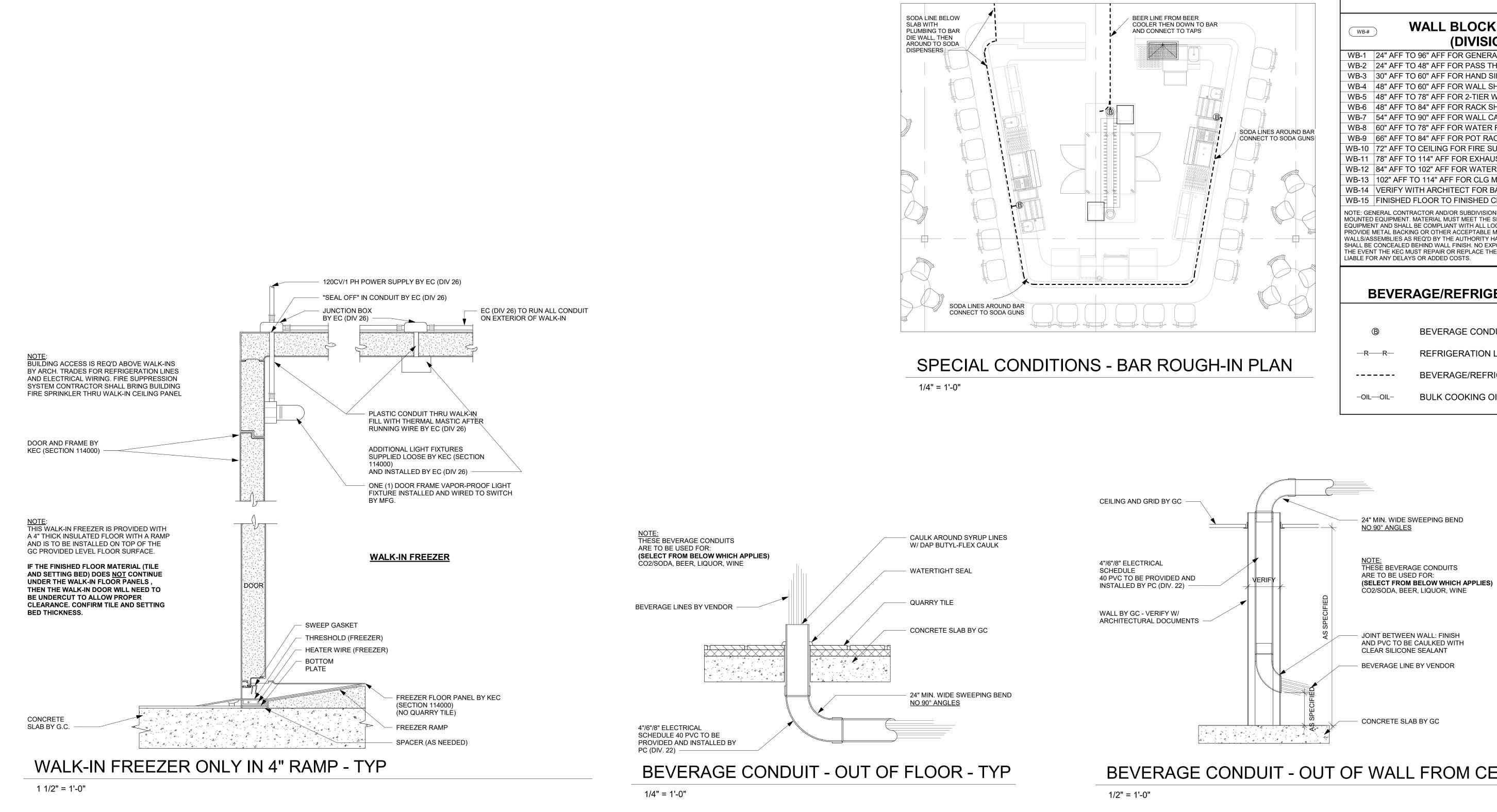
# BAR ELECTRICAL ROUGH-IN PLAN



		(DIVISION 26)
	ELEO THE AND	E: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CTRIC CONTRACTOR (DIVISION 26) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON ELECTRIC ROUGH-IN PLAN(S). THE ELECTRIC CONTRACTOR (DIVISION 26) SHALL VERIFY COORDINATE THE EXACT ELECTRICAL REQUIREMENTS FOR ALL NIC EQUIPMENT PRIOR INAL ROUGH-IN.
	Α.	FURNISH AND INSTALL CORD AND PLUG SET(S).
	В.	FURNISH AND INSTALL DEVICE & COVER IN KEC (SECTION 114000) FURNISHED JUNCTION BOX.
	C.	FURNISH AND INSTALL JUNCTION BOX(S), DEVICE(S), AND COVER(S KEC (SECTION 114000) FURNISHED EQUIPMENT.
	D.	CONNECT THRU DISPOSER CONTROL TO SOLENOID VALVE AND MOTOR.
	E.	CONNECT FROM KEC (SECTION 114000) FURNISHED ICE MACHINE T REMOTE CONDENSER AS REQ'D.
	F.	CONNECT THRU KEC (SECTION 114000) FURNISHED AIR CURTAIN TO DOOR ACTIVATED MICROSWITCH.
	G.	CONNECT THRU KEC (SECTION 114000) FURNISHED REMOTE CONTI SWITCH(ES).
	H.	FURNISH AND INSTALL SWITCH. CONNECT TO LIGHTS FURNISHED E KEC (SECTION 114000).
	I.	CONNECT POWER SUPPLY TO KEC (SECTION 114000) FURNISHED LO CENTER. COUNTER SHALL BE PREWIRED AND SHIPPED IN SECTION CONNECT BETWEEN SECTIONS.
	J	CONNECT TO KEC (SECTION 114000) FURNISHED JUNCTION BOX AT WALK-IN DOOR ASSEMBLY. LIGHT FIXTURE AT DOOR IS PREWIRED FACTORY MOUNTED LIGHT SWITCH. MOUNT ADDITIONAL KEC (SECT 114000) FURNISHED LIGHTS WHERE INDICATED AND CONNECT TO SWITCH. CONDUIT SHALL BE INSTALLED ABOVE WALK-IN AND NOT EXPOSED ON INTERIOR UNLESS REQ'D. CONDUIT PENETRATING WALK-IN SHALL BE NON-METALLIC OR PVC.
ļ	K	

- W. PROVIDE DEVICE MOUNTED HORIZONTALLY IN BUILDING WALL.





# SPECIAL CONDITIONS LEGEND

 WALL BLOCKING	

- PROPOSED STRUCTURAL SUPPORT **—** • • **—**
- NON-COMBUSTIBLE WALL

# SPECIAL CONDITIONS NOTES

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

- A. BUILDING FLOOR BENEATH WALK-IN MUST BE LEVEL WITHIN PLUS OR MINUS 1/8".
- GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE X" DEEP FLOOR DEPRESSION FROM TOP OF FINISHED FLOOR FOR WALK-IN.
- GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE PRESSURE TREATED WOOD THERMAL BARRIER CENTERED BENEATH 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 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 CURBS.
- 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 MINIMUM VERTICAL

WB-#	WALL BLOCKING NOTES (DIVISION 6)
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-I
WB-5	48" AFF TO 78" AFF FOR 2-TIER WALL SHELVES
WB-6	48" AFF TO 84" AFF FOR RACK SHELF
WB-7	54" AFF TO 90" AFF FOR WALL CABINET/SALAMANDER
WB-8	60" AFF TO 78" AFF FOR WATER FILTER
WB-9	66" AFF TO 84" AFF FOR POT RACK
WB-10	72" AFF TO CEILING FOR FIRE SUPPRESSION/HOOD CONTROL
WB-11	78" AFF TO 114" AFF FOR EXHAUST HOOD
WB-12	84" AFF TO 102" AFF FOR WATER FILTER/AIR CURTAIN
WB-13	102" AFF TO 114" AFF FOR CLG MOUNT AIR CURTAIN
WB-14	VERIFY WITH ARCHITECT FOR BACK BAR SUPERSTRUCTURE
WB-15	FINISHED FLOOR TO FINISHED CEILING
MOUNTED EQUIPMEN PROVIDE I WALLS/AS SHALL BE THE EVEN	NERAL CONTRACTOR AND/OR SUBDIVISIONS TO PROVIDE 3/4" WALL BACKING FOR EQUIPMENT. MATERIAL MUST MEET THE SIZE AND LOAD REQ'S OF THE SPECIFIED IT AND SHALL BE COMPLIANT WITH ALL LOCAL CODES, LAWS, AND REGULATIONS. METAL BACKING OR OTHER ACCEPTABLE MATERIAL AT EXHAUST HOODS AND FIRE SEMBLIES AS REQ'D BY THE AUTHORITY HAVING JURISDICTION. ALL WALL BACKING CONCEALED BEHIND WALL FINISH. NO EXPOSED WALL BACKING SHALL BE ACCEPT T THE KEC MUST REPAIR OR REPLACE THE PROVIDED BACKING, THE KEC WILL NO R ANY DELAYS OR ADDED COSTS.

# **BEVERAGE/REFRIGERATION LEGEND**

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

# BEVERAGE CONDUIT - OUT OF WALL FROM CEILING- TYP

