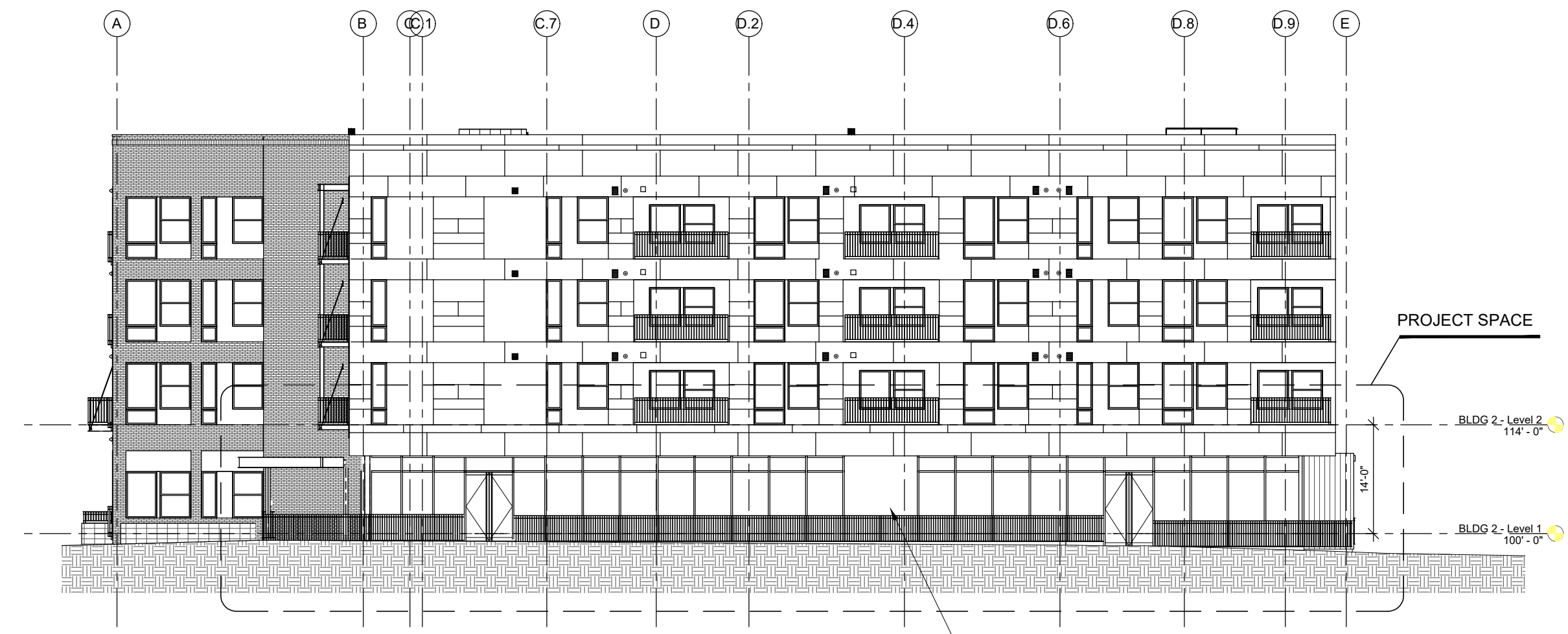


1 VICINITY MAP
SCALE: NTS



2 FRONT ELEVATION
SCALE: 1/16" = 1'-0"

PROJECT DIRECTORY

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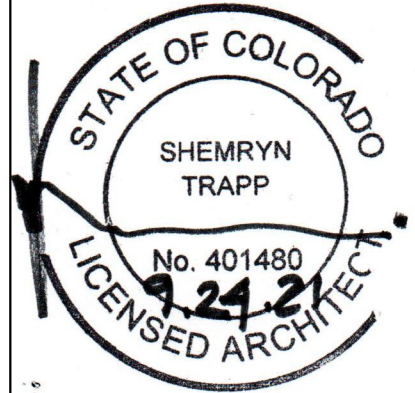
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FIELD VERIFICATION: VERIFY ALL FIELD DIMENSIONS AND CONDITIONS WITH THE SITE AND REPORT ANY DISCREPANCIES, ERRORS OR OMISSIONS TO TRAPP ARCHITECTURE PRIOR TO CONSTRUCTION OR FABRICATION. THE INFORMATION CONTAINED IN THESE DRAWINGS IS THE PROPERTY OF TRAPP ARCHITECTURE AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT WRITTEN CONSENT OF TRAPP ARCHITECTURE.

PROJECT DATA

BUILDING CODE: 2018 CITY OF LONGMONT AMENDMENTS
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FUEL GAS CODE
2020 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL FIRE CODE
2009 ICC A117.1 ACCESSIBILITY REQUIREMENTS

****BUILDING CONSTRUCTION TYPE: V-A (FULLY SPRINKLERED)****
****AUTOMATIC FIRE SPRINKLER: PROVIDED (REQUIRED BY SECT. 903.2.1.2.1)**
****ALLOWABLE HEIGHT: 4 STORY, 70' MAX HT. ACTUAL: 4 STORY, 52' TOTAL HT.**
****ALLOWABLE FLOOR AREA = 144,000 SF PER FLOOR. ACTUAL: 103,353 SF (PER IBC, TABLE 504.2, 506.3)**
NOTE: UPPER BUILDING FLOORS ARE EQUIPPED W/ AUTOMATIC SPRINKLER.

****FLAME SPREAD RATINGS**
VERTICAL EXITS: CLASS I
OTHER EXITS: CLASS II
ROOMS OR AREAS: CLASS II OR III
CLASS I = FLAME SPREAD 0-25
CLASS 3 = FLAME SPREAD 26-75
CLASS 3 = FLAME SPREAD 76-200

****FIRE RESISTANCE RATINGS: (PER TABLE 601)**
EXTERIOR BEARING WALLS 1-HOUR
EXTERIOR NON-BEARING WALLS PER TABLE 602
INTERIOR NON-BEARING WALLS NO REQUIREMENT
INTERIOR DEMISING PARTITIONS 1-HOUR
ROOF - CEILING 1-HOUR
FLOOR 1-HOUR
STRUCTURAL FRAME 1-HOUR

****PER BUILDING PERMIT INFORMATION FOR OVERALL BUILDING: 04/27/2017**

PROJECT DESCRIPTION

PROPOSED INTERIOR TENANT IMPROVEMENTS TO AN EXISTING 2821.5 SF SPACE. SCOPE OF WORK WILL BE THAT REQUIRED TO CREATE A NEW RESTAURANT (A-2). WORK WILL INCLUDE: NEW KITCHEN AND BAR FACILITIES; NEW RESTROOMS, REQUIRED PARTITIONS AND MILLWORK. NEW UTILITY WORK WILL INCLUDE NECESSARY MEP THROUGHOUT SPACE TO ACCOMMODATE. MINOR WORK TO EXTERIOR FACADE WILL ALSO BE INCLUDED IN THE SCOPE OF THIS PROJECT.

PROJECT OCCUPANCY TYPE: GROUP A-2 (RESTAURANT) (PER IBC: 1019.1)
PROJECT SPACE SQUARE FOOTAGE: 2821.5 SF

OCCUPANCY LOAD:	DINING/LOUNGE/RESTROOM (NET) AREA:	
	493 GSF/15 SF/OCC =	32 OCC.
	WAIT AREA: 77.9 GSF/5 SF/OCC =	15.6 OCC.
	KITCHEN/BAR: 859.6 GSF/200 SF/OCC =	4.3 OCC.
	HOST AREA: 859.6 GSF/200 SF/OCC =	4.3 OCC.
	TOTAL OCCUPANTS =	56.2 OCC.

NO. OF EXITS: REQUIRED: 2 PROVIDED: 3
PATIO OCCUPANCY LOAD: 421.6 SF / 15 SF/OCC = 27 OCC.

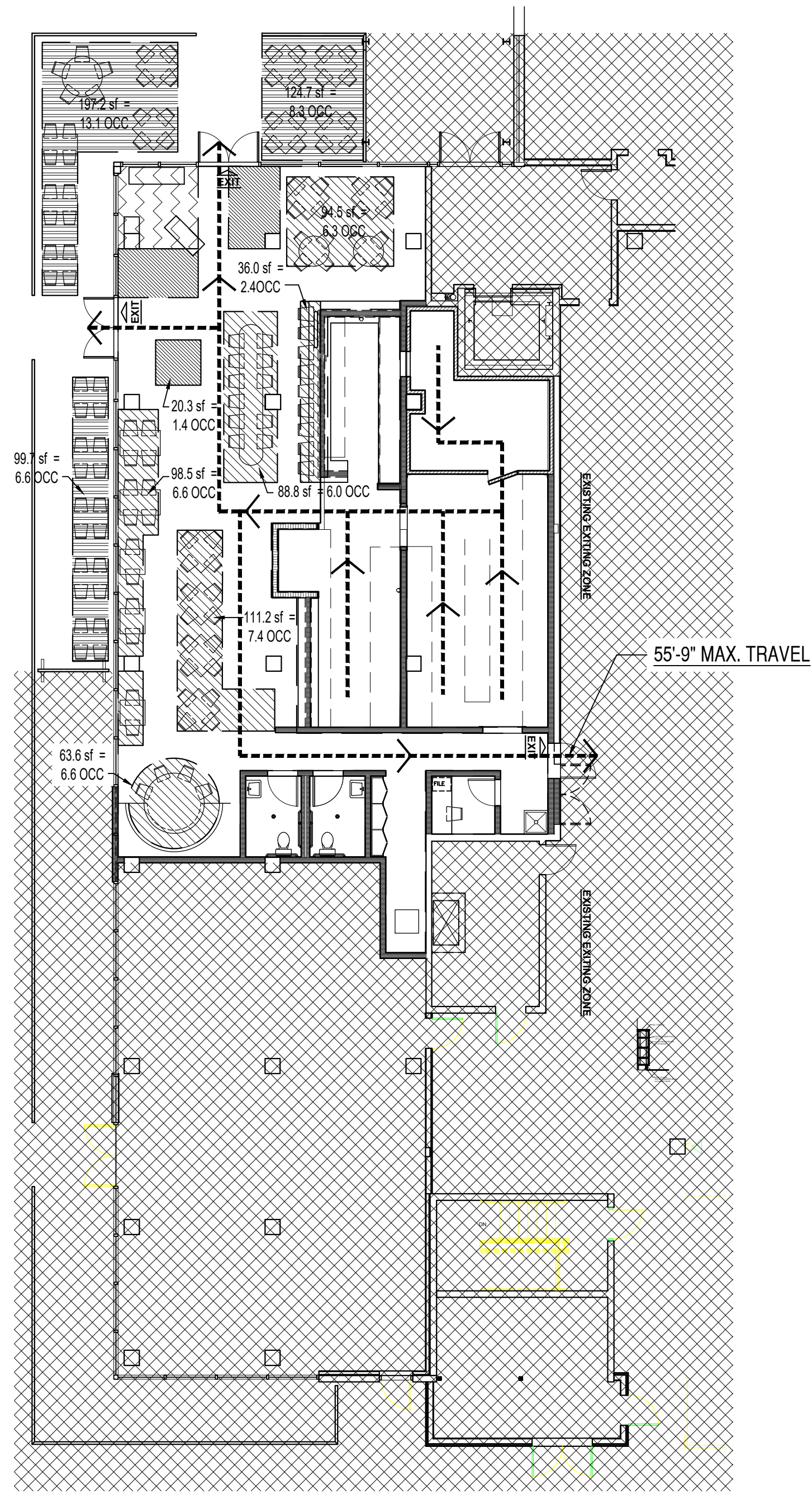
FIRE SEPARATION RATINGS: (PER TABLE 508.4)
A-2 (PROJECT SPACE) TO M, B, R (ADJACENT SPACES): 1-HOUR

PLUMBING FIXTURES PER IBC 2018 CHAPTER 29:
MEN OCCUPANCY:
WATER CLOSETS REQUIRED: 1 (1 PER 75 OCCUPANTS)
WATER CLOSETS PROVIDED: 1
67% OF FIXTURES (2 OF 3) ALLOWED TO BE URINALS (PER IPC 2018, SECTION 419.2)
LAVATORIES REQUIRED: 1 (1 PER 200 OCCUPANTS)
LAVATORIES PROVIDED: 1
WOMEN OCCUPANCY:
WATER CLOSETS REQUIRED: 1 (1 PER 75 OCCUPANTS)
WATER CLOSETS PROVIDED: 1
LAVATORIES REQUIRED: 1 (1 PER 200 OCCUPANTS)
LAVATORIES PROVIDED: 1
EMPLOYEE: REQUIRED: 0, PROVIDED: 0
SERVICE SINK: REQUIRED: 1, PROVIDED: 1
DRINKING FOUNTAIN: NONE REQUIRED WITH WAIT SERVICE (PER IPC 2018, SECTION 410.1)

GENERAL PROJECT NOTES

- CONTRACT DOCUMENTS: CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT, GENERAL CONDITIONS, SPECIFICATIONS, AND DRAWINGS, WHICH ARE COOPERATIVE AND CONTINUOUS. WORK INDICATED OR REASONABLY IMPLIED IN ANY ONE OF THE DOCUMENTS SHALL BE SUPPLIED AS THOUGH FULLY COVERED IN ALL. ANY DISCREPANCIES BETWEEN THE PARTS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- THESE DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT. THESE DRAWINGS ARE THE GRAPHIC ILLUSTRATION OF THE WORK TO BE ACCOMPLISHED.
- ORGANIZATION: THE DRAWINGS FOLLOW A LOGICAL, INTERDISCIPLINARY FORMAT: ARCHITECTURAL DRAWINGS (A SHEETS), STRUCTURAL DRAWINGS (S SHEETS), MECHANICAL (M SHEETS), PLUMBING (P SHEETS) AND ELECTRICAL & LIGHTING (E SHEETS).
- CODE COMPLIANCE: ALL WORK, MATERIALS, AND ASSEMBLIES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL CODES, ORDINANCES, AND REGULATIONS. THE CONTRACTOR, SUBCONTRACTORS AND JOURNEYMEN OF THE APPROPRIATE TRADES SHALL PERFORM WORK TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP.
- INTENT: THESE DOCUMENTS ARE INTENDED TO INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE THE WORK DESCRIBED HEREIN.
- COORDINATION: THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE DOCUMENTS, VERIFY THE ACTUAL CONDITIONS, AND REPORT ANY DISCREPANCIES, ERRORS, OR OMISSIONS TO THE ARCHITECT PRIOR TO COMMENCING WORK. THE ARCHITECT SHALL CLARIFY OR PROVIDE REASONABLE ADDITIONAL INFORMATION REQUIRED FOR SUCCESSFUL EXECUTION. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL OPENINGS THROUGH FLOORS, CEILING AND WALLS WITH ALL ARCHITECTURAL, INTERIOR, STRUCTURAL, MECHANICAL AND PLUMBING, ELECTRICAL, AND LIGHTING DRAWINGS.
- APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF PLANS ON THE PREMISES IN GOOD CONDITION AT ALL TIMES. GC SHALL BE RESPONSIBLE TO ENSURE THAT ALL WORKING DOCUMENTS ARE THE MOST CURRENT, INCLUDING ALL ADDENDA AND CHANGE ORDERS USED BY THE G.C. AND ALL SUBCONTRACTORS.
- STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE DRAWINGS. THE ARCHITECT SHALL BE NOTICED OF ANY DISCREPANCY PRIOR TO WORK COMMENCING.
- DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED. THE CONTRACTOR IS TO CLARIFY ANY SUCH DISCREPANCIES PRIOR TO CONTINUING WITH WORK.
- WORK WITH EXISTING CONSTRUCTION SHALL BE EXAMINED AND VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. IF THEY DIFFER FROM CONDITIONS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND STRUCTURE WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
- GENERAL CONTRACTOR TO REFER TO THESE DOCUMENTS AS WELL AS SPECIFICATIONS FOR IDENTIFICATION OF ALL OWNER SUPPLIED ITEMS. ALL ITEMS NOT MARKED AS 'OWNER SUPPLIED' ARE TO BE SUPPLIED BY GC UNLESS OTHERWISE NOTED. ALL ITEMS ARE TO BE INSTALLED BY G.C. G.C. SHALL PROTECT OWNER SUPPLIED ITEMS BEING INSTALLED FROM ON SITE DAMAGE.
- FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S APPROVED SHOP DRAWINGS/DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- GC SHALL PROVIDE KNOX BOX FOR EMERGENCY ADDRESS IN A LOCATION APPROVED BY THE FIRE DEPARTMENT.
- G.C. SHALL MAINTAIN A 'JOB SET' OF DRAWINGS TO BE MARKED UP WITH ALL AS BUILT CHANGES INCLUDING REVISIONS TO DRAWINGS AND ANY CONTRACTOR RECOMMENDATIONS FOR IMPROVEMENTS. THIS SET TO BE DELIVERED BACK TO PROJECT DESIGNER AND ARCHITECT FOLLOWING PROJECT COMPLETION. G.C. IS ENCOURAGED TO FREELY MAKE 'NOTES FOR FUTURE IMPROVEMENTS' ON A DAILY BASIS WHILE RECOMMENDATION IS 'FRESH'. ARCHITECT WILL REVIEW AT SITE VISITS.
- G.C. SHALL MAINTAIN A FAX, DIGITAL CAMERA AND ACCESS TO EMAIL ON SITE AT ALL TIMES.
- CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES, ERRORS OR OMISSIONS BETWEEN DRAWINGS AND FIELD CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION OR FABRICATION.
- ALL DIMENSIONS ARE TO FACE OF FRAMING OR STRUCTURE, UNLESS NOTED OTHERWISE AS 'CLR'.
- CONTRACTOR TO CHECK AND VERIFY SIZE AND LOCATION OF PLUMBING RUNS AND MECHANICAL EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTORS BEFORE CONSTRUCTING WALLS, FLOOR, CEILING, CABINETS, EQUIPMENT BASES, ORDERING EQUIPMENT OR FIXTURES, ETC.
- ALL WINDOW AND DOOR DIMENSIONS ARE SHOWN AS NOMINAL SIZING. G.C. TO REFER TO EXISTING CONDITIONS AND MANUFACTURER'S CLEAR FRAMING REQUIREMENTS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL STRUCTURAL CONDITIONS BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD DIMENSIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL CONTINUOUSLY REMOVE DEBRIS FROM SITE AND CLEAN DAILY FOR RESTAURANT OPERATIONS TO REMAIN UNAFFECTED.
- FIRE SAFETY/SPRINKLER SUBCONTRACTOR TO BE FINAL SUB TO INSTALL WORK, FOLLOWING ELECTRICAL AND MECHANICAL INSTALLATIONS.

	WAIT AREAS = 77.9 SQ. FT. (OCCUPANCY LOAD = 5 SF NET PER OCCUPANT) = 15.6 OCCUPANTS
	DINING/LOUNGE = 493 SF (OCC. LOAD = 15 SF PER OCCUPANT) = 32 OCCUPANTS
	BAR/KITCHEN = 859.6 SQ. FT. (OCCUPANCY LOAD = 200 SF PER OCCUPANT) = 4.3 OCCUPANTS
	PATIO = 421.6 SF = 27 OCC (OCCUPANCY LOAD = 15 SF PER OCCUPANT) = 27 OCCUPANTS
	HOST = 65.0 SQ. FT. (OCCUPANCY LOAD = 150 SF GROSS PER OCCUPANT = 4.3 OCCUPANTS)
	N.I.C.



URBAN FIELD PIZZA AND MARKET
150 MAIN STREET BLDG #2
LONGMONT, CO. 80501

SUBMISSIONS:
PERMIT 2021.09.23

T1.0 COVER SHEET PROJECT INFO

ABBREVIATIONS

AB	ANCHOR BOLT	K	KIP
AC	AIR CONDITIONING	KIT	KITCHEN
ACOUS	ACOUSTICAL	KO	KNOCKOUT
ACT	ACOUSTICAL CEILING TILE	KVA	KILO VOLT-AMPERES
AD	AREA DRAIN, ACCESS DOOR	KW	KILOWATT
ADD	ADDENDUM	L	LENGTH
ADJ	ADJUNCT, ADJUSTABLE	LAM	LAMINATE
AFF	ABOVE FINISHED FLOOR	LAQ	LACQUER
ALLM	ALUMINUM	LAV	LAVATORY
ALT	ALTERNATE	LDR	LEADER
ANOD	ANODIZED	LH	LEFT HAND
APPROX	APPROXIMATE	LN	LINEAR
ARCH	ARCHITECTURAL	LL	LIVE LOAD
ASPH	ASPHALT	LP	LIGHTING PANEL, LIGHT PROOF
AUTO	AUTOMATIC	LT	LIGHT
AUX	AUXILIARY	MACH	MACHINERY
AV	AUDIOVISUAL	MAG	MAGNETIC
AVI	AVENUE	MAS	MASONRY
AVG	AVERAGE	MATL	MATERIAL
BATH	BATHROOM	MAX	MAXIMUM
BD	BOARD	MECH	MECHANICAL
BET	BETWEEN	MED	MEDIUM
BF	BOARD FEET	MEMB	MEMBRANE
BTUM	BTUMINOUS	MEZZ	MEZZANINE
BLDG	BUILDING	MFG	MANUFACTURER
BLKG	BLOCKING	MH	MANHOLE
BM	BENCHMARK, BEAM	MI	MILE
BOT	BOTTOM	MIN	MINIMUM
BRG	BEARING	MIN	MINUTE
BSMT	BASEMENT	MISC	MISCELLANEOUS
BUR	BUILT-UP ROOF	MM	MILLIMETERS
		MO	MASONRY OPENING
		MTD	MOUNTED
		MTL	METAL
		MUL	MULLION
		N	NORTH
		NIC	NOT IN CONTRACT
		NO	NUMBER
		NOM	NOMINAL
		NRC	NOISE REDUCTION COEFFICIENT
		NTS	NOT TO SCALE
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
		OF	OUTSIDE FACE
		OFF	OFFICE
		OH	OPPOSITE HAND
		OPNG	OPENING
		OPP	OPPOSITE
		P	PANT
		PAR	PARALLEL
		PBO	PROVIDED BY OTHERS
		PC	PRECAST
		PCF	POUNDS PER CUBIC FOOT
		PEN	PENETRATION
		PERF	PERFORATED
		PERIM	PERIMETER
		PKG	PARKING
		PL	PLATE PROPERTY LINE
		PLAM	PLASTIC LAMINATE
		PLAS	PLASTER
		PLBS	PLUMBING
		PLYWD	PLYWOOD
		PNEU	PNEUMATIC
		POL	POLISHED
		PR	PAIR
		PRFAB	PREFABRICATED
		PREFRN	PREFRINTED
		PRESTR	PRESTRESSED
		PRM	PRIMARY
		PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
		PTD	PAPER TOWEL DISPENSER
		PT	PAPER TOWEL RECEPTACLE
		PTN	POST TENSIONED
		PVC	POLYVINYL CHLORIDE
		PVMT	PAVEMENT
		QT	QUARRY TILE
		QTY	QUANTITY
		R	RISER
		RAD	RADIUS
		RBC	RUBBER BASE COVE
		RBS	RUBBER BASE STRAIGHT
		RBT	RUBBER TILE
		RDR	ROOF DRAIN ROAD
		RE	REFERENCE
		RECP	RECEPTACLE
		REFR	REFRIGERATOR
		REG	REGISTER
		RENF	REINFORCED
		REMOVE	REMOVE
		REQD	REQUIRED
		RESL	RESILIENT
		REV	REVISION(S), REVISED
		RFL	REFLECTED
		RH	RIGHT HAND
		RM	ROOM
		RO	ROUGH OPENING
		ROW	RIGHT OF WAY
		RP	ROPE
		RPM	REVOLUTIONS PER MINUTE
		RVS	REVERSE (SIDE)
		SC	SOLID CORE
		SD	SOAP DISPENSER
		SEC	SECTION
		SF	STORE FRONT
		SH	SHEET
		SHD	SHEDDING
		SIM	SIMILAR
		SND	SANITARY NAPKIN DISPOSER
		SNR	SANITARY NAPKIN RECEPTACLE
		SNT	SEALANT
		SOFF	SOFFIT
		SPCD	SPECIFIC
		SPRT	SUPPORT
		SPCS	SPECIFICATIONS
		SPRL	SPEAKER
		SPKR	SPEAKER
		SQ	SQUARE
		SS	STAINLESS STEEL
		STA	STATION
		STD	STANDARD
		STEEL	STEEL
		STOR	STORAGE
		STRUCT	STRUCTURAL
		SUSP	SUSPENDED
		SYM	SYMMETRICAL
		SYS	SYSTEM
		T	TREAD
		TB	TOWEL BAR
		T&B	TOP AND BOTTOM
		TBC	TOP OF BACK OF CURB
		TEL	TELEPHONE
		TEMP	TEMPERED
		T&G	TEMPERATURE TONGUE AND GROOVE
		THRM	THERMOSTAT
		THK	THICK
		THLD	THRESHOLD
		TO	TOP OF
		TOC	TOP OF CONCRETE
		TOS	TOP OF STEEL
		TOSL	TOP OF SLAB
		TOW	TOP OF WALL
		TPD	TOILET PAPER DISPENSER
		TRANS	TRANSFER
		TS	STEEL TUBING
		TV	TELEVISION
		TYP	TYPICAL
		UNFN	UNFINISHED
		UN	UNLESS OTHERWISE NOTED
		UR	URINAL
		USG	U.S. GAUGE
		V	VOLT
		VAR	VARIABLE
		VCT	VINYL COMPOSITION TILE
		VENT	VENTILATION
		VERT	VERTICAL
		VEST	VESTIBULE
		VN	SHEET VINYL
		VOL	VOLUME
		VTR	VENT THROUGH ROOF
		VWC	VINYL WALL COVERING
		W	WEST, WIDE
		WI	WITH
		WC	WATERCLOSET
		WD	WOOD
		WDO	WINDOW
		WGL	WIREGLASS
		W.O.	WHERE OCCURS
		W/O	WITHOUT
		WP	WATERPROOFING
		WR	WATER RESISTANT
		WSCT	WAINSCOT
		WT	WEIGHT
		WFF	WELDED WIRE FABRIC
		YD	YARD

GRAPHIC STANDARDS

STRUCTURAL GRID

- COLUMN NUMBER
- COLUMN REFERENCE GUIDE
- COLUMN LETTER

DOOR IDENTIFICATION

- DOOR NUMBER

GLAZING IDENTIFICATION

- GLAZING TYPE

NOTE IDENTIFICATION

- NOTE NUMBER
- ELEVATION REFERENCE
- DATUM POINT

ROOM/SPACE IDENTIFICATION

- ROOM NAME
- ROOM NUMBER

DRAWING SECTION IDENTIFICATION

- DRAWING NUMBER
- SHEET NUMBER

EXTERIOR ELEVATION IDENTIFICATION

- DRAWING NUMBER
- SHEET NUMBER

INTERIOR ELEVATION IDENTIFICATION

- DRAWING NUMBER
- SHEET NUMBER

ENLARGED DETAIL IDENTIFICATION

- DRAWING NUMBER
- SHEET NUMBER

AREA OF DRAWING TO BE ENLARGED

INTERIOR DETAIL IDENTIFICATION

- DRAWING NUMBER/SHEET NUMBER

ARCHITECTURAL FINISH IDENTIFICATION

- FINISH TYPE

PARTITION TYPE IDENTIFICATION

- PARTITION TYPE
- RE: PARTITION TYPE SCHEDULE

ACOUS PARTITION TYPE IDENTIFICATION

- PARTITION TYPE
- RE: PARTITION TYPE SCHEDULE

EQUIPMENT IDENTIFICATION

- EQUIPMENT ID NUMBER

CONCRETE

UNDISTURBED EARTH OR COMPACTED FILL

COMPACTED FILL

POROUS FILL (GRAVEL)

STEEL

ALUMINUM

BRICK

CONCRETE MASONRY

GLASS (IN ELEVATION)

BATT INSULATION

RIGID INSULATION

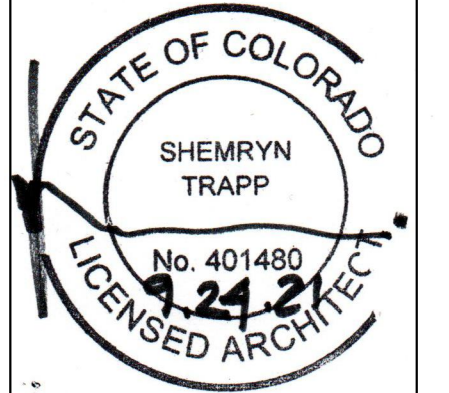
ACOUSTICAL TILE

METAL STUD

FINISH WOOD

ROUGH WOOD

PLYWOOD



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URBAN FIELD PIZZA AND MARKET
 150 MAIN STREET BLDG #2
 LONGMONT, CO. 80501

SUBMISSIONS:	
PERMIT	2021.09.23

T1.1

ABBREVS / GRAPHIC STANDARDS

T R A P P
 A S S O C I A T E S L L C
 4135 AUTUMN CT. BOULDER CO 80304 303.415.0036

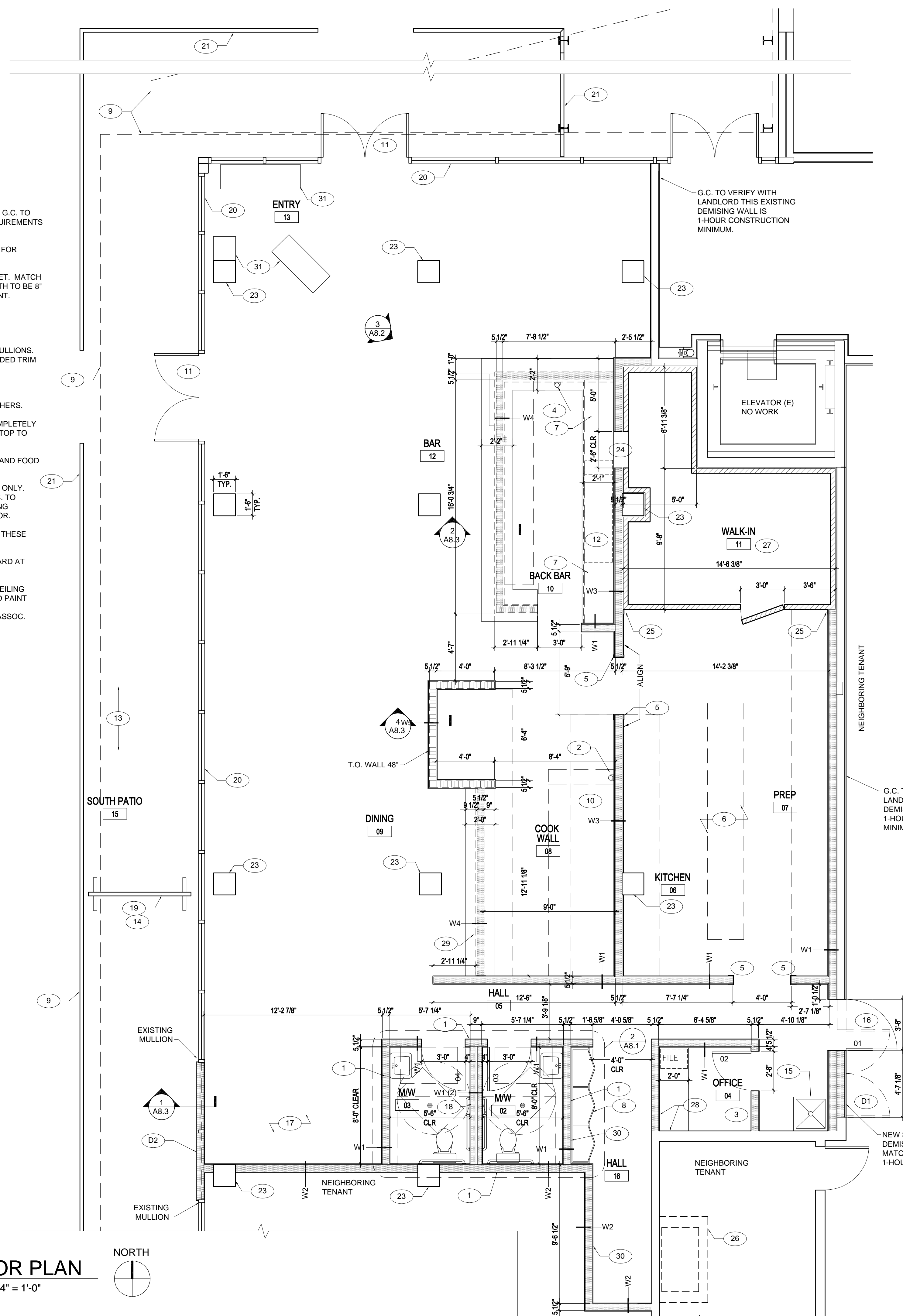
KEYED NOTES A2.1:

- 1 COMPLETELY FILL RESTROOM WALLS WITH PAPERLESS BATT INSULATION FOR SOUND INSULATION.
- 2 TYPE 'K' FIRE EXTINGUISHER LOCATION. CONFIRM FINAL LOCATION WITH INSPECTOR.
- 3 WALL MOUNTED A/V RACK. FINAL LOCATION BY OWNER.
- 4 TYPE ABC FIRE EXTINGUISHER LOCATION. CONFIRM FINAL LOCATION WITH INSPECTOR.
- 5 STAINLESS STEEL CORNER GUARD.
- 6 REFER TO FOOD SERVICE DRAWINGS FOR EQUIPMENT LAYOUT AND SPECIFICATIONS AT KITCHEN, PREP, BAR, ETC. G.C. TO COORDINATE WITH EQUIPMENT VENDOR ON SPECIFIC REQUIREMENTS.
- 7 BELOW COUNTER SHELVING/TOP SUPPORT TO BE HEAVY DUTY, BRACKET TYPE DETERMINED BY OWNER. G.C. TO VERIFY FIELD CONDITIONS AND MAKE RECOMMENDATION
- 8 NEW MILLWORK STORAGE CABINET. SEE S/A8.3
- 9 EXISTING BUILDING SOFFIT ABOVE. NO WORK THIS AREA.
- 10 HOOD ABOVE BY OTHERS. SEE FOOD SERVICE DRAWINGS.
- 11 EXISTING DOORS TO REMAIN. G.C. TO VERIFY IF EXISTING HARDWARE, SIGNAGE, AND LIGHTING, IS TO CODE.
- 12 BACK BAR, REFER TO DETAIL X/AXX FOR MORE INFORMATION.
- 13 EXISTING PATIO - NO WORK
- 14 ADD NEW SECTION OF RAILING TO MATCH EXISTING. ANCHOR INTO SLAB SIMILAR TO EXISTING.
- 15 NEW SERVICE SINK. REFER TO P' DRAWINGS FOR ADDITIONAL INFORMATION.
- 16 NEW SINGLE DOOR AND FRAME. SEE X/AXX FOR ADDITIONAL INFORMATION.
- 17 BUILT-IN BOOTH WORK BY OTHERS THIS LOCATION. G.C. TO COORDINATE WITH VENDOR ON INSTALLATION REQUIREMENTS INCLUDING BLOCKING.
- 18 TWO (2) TYPE W1 WALLS WITH 2" AIR GAP BETWEEN FOR PLUMBING.
- 19 NEW MOVABLE RAILING SECTION ON WEIGHTED FEET. MATCH EXISTING RAILING DESIGN AND FINISH. FINAL LENGTH TO BE 8" LESS THAN DISTANCE TO RAILING(E) TO STOREFRONT.
- 20 EXISTING STOREFRONT TO REMAIN 'AS IS' U.O.N.
- 21 EXISTING PERIMETER RAILING TO REMAIN 'AS IS'.
- 22 NEW EXTERIOR WALL. INFILL BETWEEN EXISTING MULLIONS. ATTACH TO STOREFRONT USING MFR'S RECOMMENDED TRIM KITS AND SEAL METHODOLOGY. SEE DETAIL.
- 23 EXISTING COLUMN TO REMAIN
- 24 BEER TAP ARRAY - INSTALLATION AND FINISH BY OTHERS.
- 25 INSTALL STAINLESS STEEL ANGLE CLOSURE TO COMPLETELY SEAL GAP BETWEEN COOLER WALLS AND COOLER TOP TO ADJACENT WALLS AND CEILING.
- 26 EXISTING GREASE DUCT CHASE. SEE MECHANICAL AND FOOD SERVICE SHEETS FOR ADDITIONAL INFORMATION.
- 27 WALK-IN COOLER SHOWN FOR GRAPHIC PURPOSES ONLY. FINAL DIMENSIONS BY FOOD SERVICE VENDOR. G.C. TO COORDINATE EQUIPMENT REQUIREMENTS INCLUDING UTILITIES, DIMENSIONS, AND BLOCKING WITH VENDOR.
- 28 INSTALL 1/2" CDX PLYWOOD BEHIND GYP. BD. FINISH THESE WALLS.
- 29 INSTALL 3/4" CDX PLYWOOD IN LIEU OF CEMENT BOARD AT THIS DYE WALL FACE FOR EQUIPMENT BLOCKING
- 30 THIS SECTION OF W1 WALL TYPE TO STOP AT B.O. CEILING FRAMING. CAP CEILING WITH 3/4" CDX DECKING AND PAINT
- 31 MILLWORK AT ENTRY TBD BY OWNERS AND TRAPP ASSOC.

WALL TYPE LEGEND:

- NEW COOLER WALL. WALL ASSEMBLY PER COOLER MFR. G.C. TO COORDINATE FINAL DIMENSIONS.
- EXISTING FULL HEIGHT WALL OR COLUMN TO REMAIN
- EXISTING WALL TO BE REMOVED
- W1: NEW FULL HEIGHT WALL, 3-1/2 +LT. GA. MTL STUDS ON 16+CENTERS TO STRUCTURE ABOVE U.O.N. 1-LAYER OF 5/8 +GYP BD TO EACH EXPOSED SIDE. TYPE #WR+GYP. BD. AT RESTROOMS AND PREP.
- W2: NEW FULL HEIGHT 1-HR DEMISING WALL, 5-1/2+LT. GA. MTL STUDS ON 16+CENTERS TO B.O. STRUCTURE. 2-LAYERS OF 5/8+TYPE X GYP BD BOTH SIDES 5-1/2 +LT. GA. MTL STUDS. FILL WALL CAVITY WITH SOUND BATTS.
- W3: NEW FULL HEIGHT WALL, 5-1/2 +LT. GA. MTL STUDS ON 16+CENTERS TO B.O. STRUCTURE. 1-LAYER OF 5/8+TYPE WR GYP BD TO KITCHEN SIDE, 1-LAYER OF 1/2+CEMENT BD TO GUEST SIDE
- W4: NEW BELOW COUNTER WALL, 5-1/2 +LT. GA. MTL STUDS ON 16+CENTERS TO B.O. TOP. FINAL HT. PER PLANS. 1-LAYER OF 5/8+TYPE WR GYP BD TO STAFF SIDE, 1-LAYER OF 1/2+CEMENT BD TO GUEST SIDE
- W5: NEW PARTIAL HT. WALL, 5-1/2 +LT. GA. MTL STUDS ON 16+CENTERS. FINAL HT. PER PLANS. 1-LAYER OF 5/8+TYPE WR GYP BD TO STAFF SIDE, 1-LAYER OF 1/2+CEMENT BD TO GUEST SIDE

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



FLOOR PLAN GENERAL NOTES

1. DIMENSIONS SHOWN ON THIS SHEET ARE STUD TO STUD, UNLESS NOTED OTHERWISE
2. PROVIDE 5/8" WATER RESISTANT GYPSUM BOARD BEHIND ALL CERAMIC TILE AT WALLS IN RESTROOM AREAS.
3. USE 5/8" GYPSUM BOARD AT ALL WALLS, PARTITIONS AND CEILINGS WHERE GYPSUM BOARD INDICATED, UNLESS OTHERWISE NOTED OR EXISTING CONDITIONS DICTATE.
4. COORDINATE EXTENT AND LOCATION OF WALL BLOCKING, REINFORCING AND OPENINGS WITH FOOD SERVICE EQUIPMENT SUPPLIER, PREFAB. ENCLOSURE CONTRACTOR AND MILLWORK CONTRACTOR. PROVIDE PLYWOOD REINFORCING AND WOOD BLOCKING BEHIND ALL WALL MOUNTED SINKS AND WALL MOUNTED TOILET ROOM ACCESSORIES, GRAB BARS, AND WOOD TRIM. PROVIDE BLOCKING AT ALL BOOTH TABLES FOR ANGLE BRACKET CANTILEVERS AND/OR BOLT DOWN BASES. SEE DETAILS. COORDINATE FINAL LOCATIONS WITH RESTAURANT DESIGNER (AS APPLICABLE).
5. G.C. TO VERIFY FINAL EQUIPMENT LOCATIONS AND DIMENSIONS WITH OWNER'S REP. AND/OR EQUIPMENT SUPPLIER PRIOR TO FABRICATING OR INSTALLING ANY MILLWORK.
6. REFER TO SHEET A7.1 FOR FURNITURE LAYOUT AND SEATING DATA.
7. BOOTH DIMENSIONS ARE TO FINISH. REFER TO DETAILS ON SHEET AX.X FOR SPECIFIC PLATFORM DIMENSIONS AND CONSTRUCTION.
8. FIRE EXTINGUISHERS SHALL BE PLACED SO THAT THERE IS NO MORE THAN A 75 FOOT TRAVEL DISTANCE TO AN EXTINGUISHER FROM ANY PORTION OF THE BUILDING. THE EXTINGUISHERS SHALL HAVE A 2A:10BC RATING. IN ADDITION TO THESE EXTINGUISHERS, 40BC EXTINGUISHERS SHALL BE PROVIDED WITHIN 25 FEET OF ALL KITCHEN EQUIPMENT, PROTECTED BY THE HOOD AND DUCT PROTECTION SYSTEM. RECYCLE EXISTING IF POSSIBLE.
9. EMERGENCY PULLS, STROBES, SIRENS, THERMOSTAT, EMERGENCY LIGHTING SHALL BE LOCATED TO COMPLY WITH CODE BUT WITH CONSIDERATION FOR ART WALLS IF REQUIRED BY NEW FLOOR PLAN LAYOUT. AVOID MIDWALL LOCATIONS MINIMALLY. CONTRACTOR TO COORDINATE WITH TRAPP ASSOC. ON FINAL LOCATIONS PRIOR TO WORK.
10. FINAL T.V. LOCATIONS AND ELEVATIONS PER OWNER'S A/V SUB TYPICAL, UNLESS OTHERWISE NOTED.
11. NOTE: G.C. RESPONSIBLE FOR ALL DAMAGE TO TABLES, BOOTHS, LIGHT FIXTURES, SHADES, REPAIR OR REPLACE BY 'TURNOVER' DATE.
12. DEBRIS CONTINUOUSLY TO BE REMOVED BY GC
13. ALL WINDOW AND DOOR DIMENSIONS ARE SHOWN AS NOMINAL SIZING. REFER TO MANUFACTURER'S CLEAR FRAMING REQUIREMENTS PRIOR TO CONSTRUCTION. NEW WINDOWS TO BE SIMILAR, INSULATED TYPE.
14. TOP OF WALL (T.O.W.) HEIGHTS SHOWN ARE FROM HIGHEST ADJACENT FINISHED FLOOR TO TOP OF WALL FINISH.
15. G.C. TO REFER TO PLUMBING SHEETS FOR LOCATIONS AND INFORMATION REGARDING ALL FLOOR DRAINS AND FLOOR SINKS.
16. FOR ALL WALL-MOUNTED AND SEMI- RECESSED MOUNTED EQUIPMENT ACCESSORIES, CABINETS, HANDRAILS, MECHANICAL/ELECTRICAL EQUIPMENT, ETC., PROVIDE AND INSTALL SOLID BLOCKING IN WALL BEHIND
17. GC TO INSTALL FIRE BLOCKING AS REQUIRED PER CODE. BOOTH PLATFORMS TO NOT EXCEED 100 S.F. OF OPEN FRAMING WITHOUT BLOCKING.
18. PROVIDE 5/8" CEMENTITIOUS BACKBOARD TO 12" A.F.F. TO NEW WALLS AT COOK, PREP, RESTROOMS AND 48" A.F.F. AT DISHWASHING WITH TYPE WR GYP. BD. ABOVE BOTH CONDITIONS. SLOPE ALL FLOOR AREAS IN KITCHEN RESTROOMS, DISH, BAR, ETC., 1/8" PER FOOT OR MAX ALLOWABLE WHERE FLOOR DRAINS OCCUR.
19. G.C. IS RESPONSIBLE FOR COORDINATING TILE AND PLUMBING SUBS TO ENSURE THAT FLOOR DRAINS AND FLOOR SINKS FINISH OUT FLUSH TO THE TOP OF FINISH FLOOR TILE @ SHALLOW END OF DRAIN SLOPE.
20. UNISTRUT CLIPS REQUIRED AT ALL INDIRECT DRAINS/PIPING/FLOOR SINKS, ETC.
21. ELECTRICAL INSTALLATION SHALL TAKE PRECEDENT OVER MECHANICAL INSTALLATION. MECHANICAL INSTALLATION SHALL TAKE PRECEDENT OVER FIRE SAFETY INSTALLATION.
22. GC TO REVIEW ALL ROOF-SCUPPER-DOWNSPOUT-DRAINAGE CONDITIONS AROUND SPACE. CLEAN AS REQUIRED. PROVIDE RECOMMENDED SOLUTIONS FOR CONSISTENT, SOUND WATER REMOVAL AWAY FROM SPACE TO ARCHITECT IF PROBLEM EXISTS.
23. ALL WALLS AND WALL FINISHES TO EXTEND FROM FLOOR TO CEILING DECK ABOVE THROUGHOUT SPACE U.O.N.
24. 1/2" HIGH MAXIMUM AT FLOORING TRANSITIONS, TYPICAL.

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SHEMRYN TRAPP

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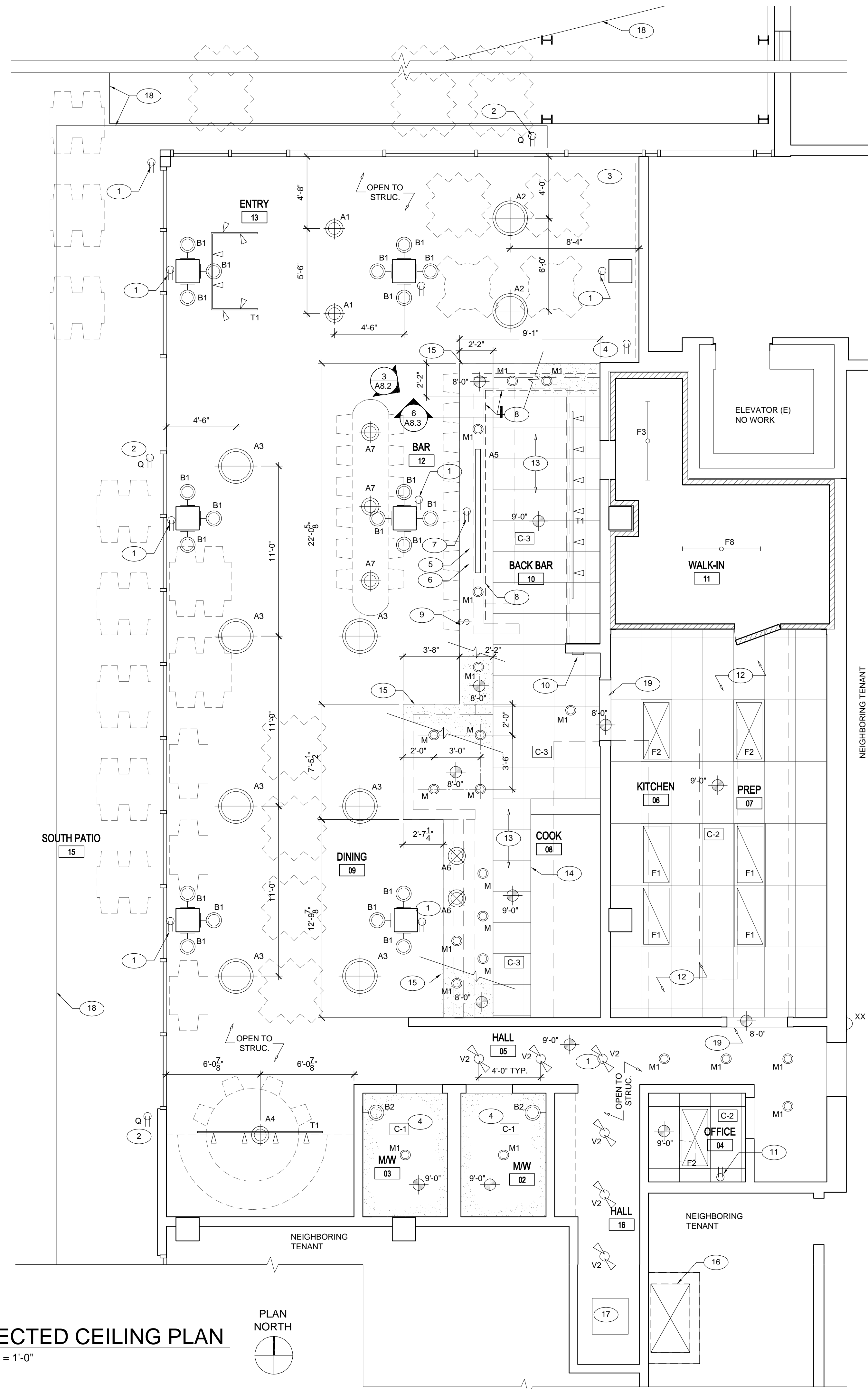
URBAN FIELD PIZZA AND MARKET

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LONGMONT, CO. 80501

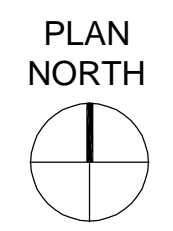
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FLOOR PLAN

A2.1



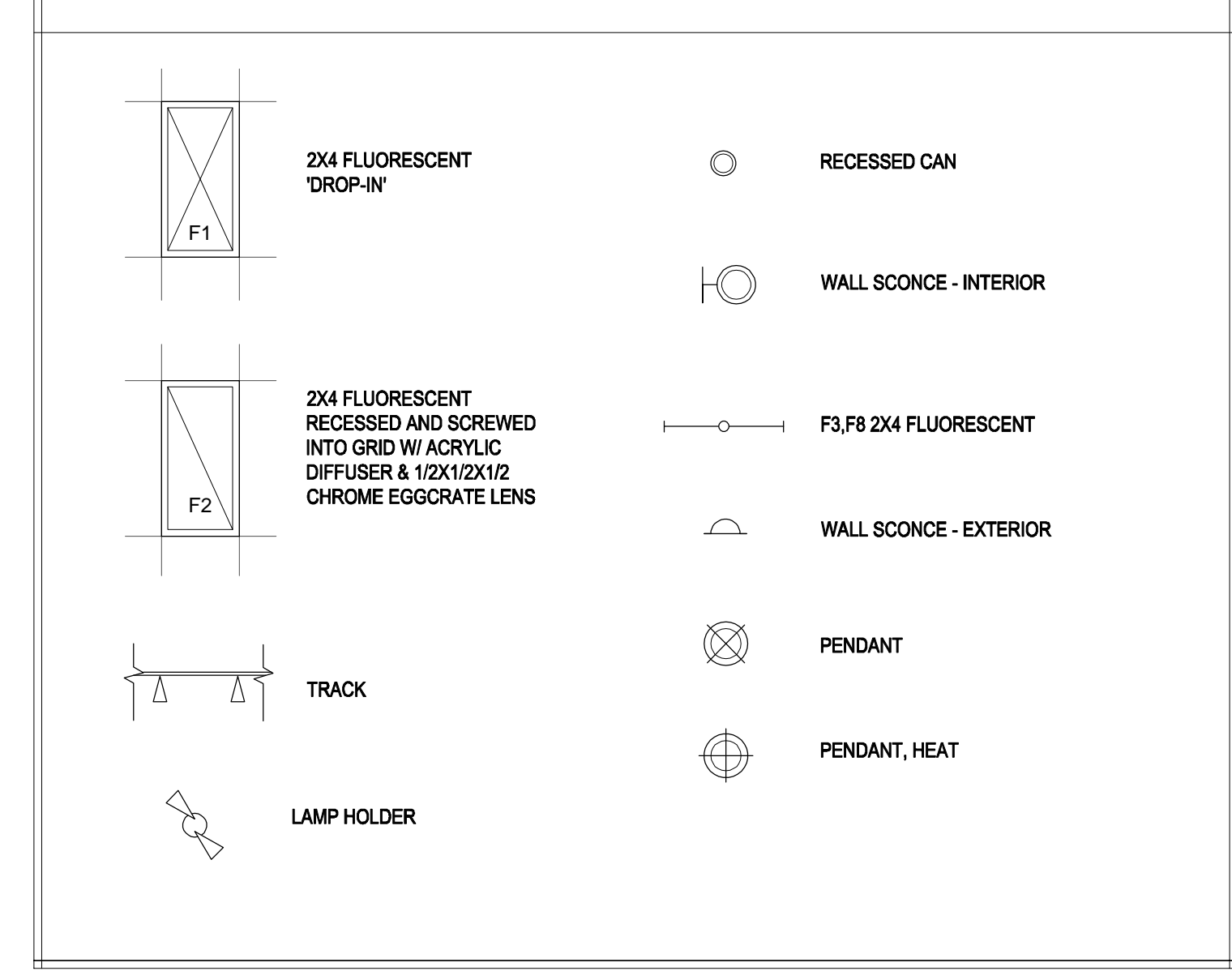
1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



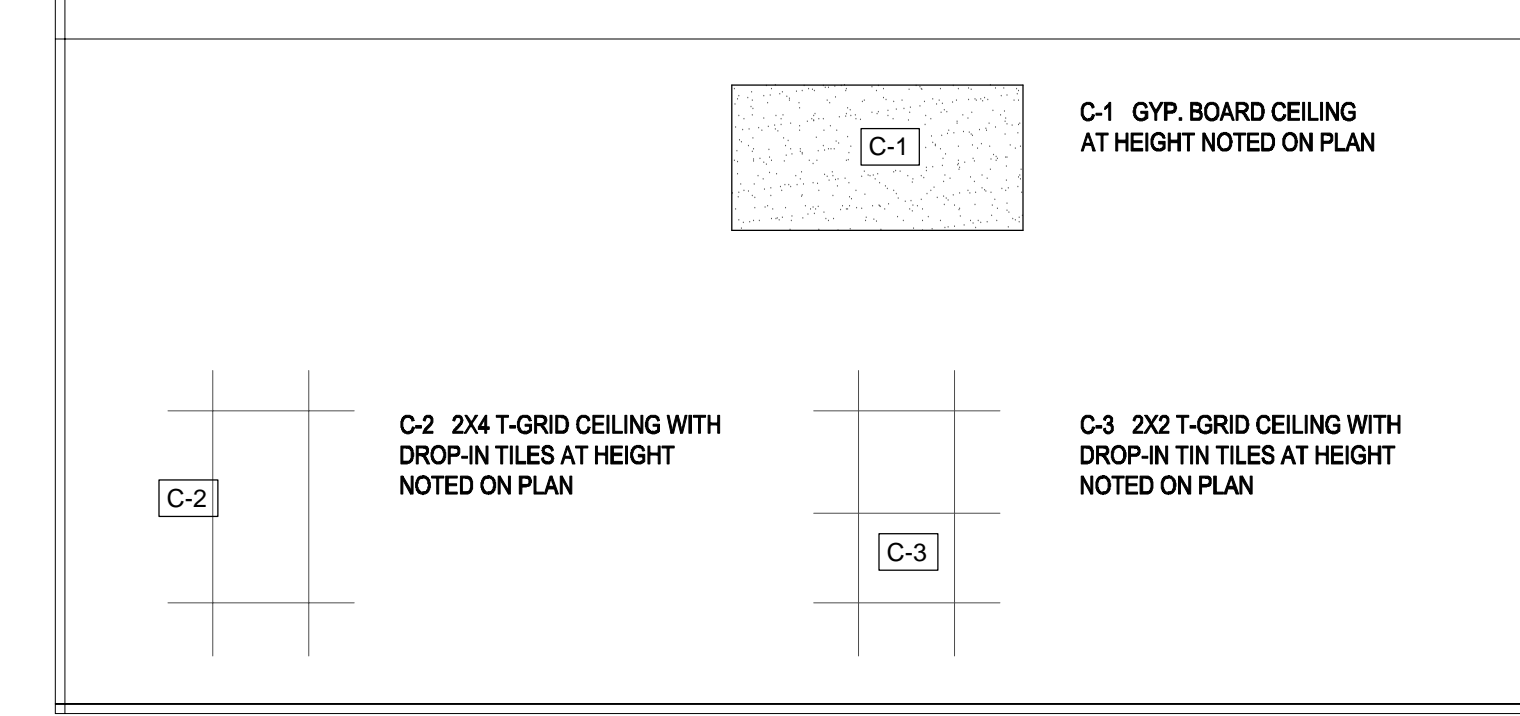
KEYED NOTES A2.2 RCP:

- 1 SWP SIGNAGE CIRCUIT
- 2 RECEPTACLES FOR 'Q' LIGHT STRINGS TO BE MOUNTED AT 10'-0" A.F.F. SEPARATELY SWITCHED.
- 3 CEILING COVE WITH L.E.D. STRIP INSIDE SWITCHED AT SOUTH END, SEE DETAIL 2/A8.3
- 4 3/4" CDX PLYWOOD ON TOP OF CEILING FRAMING AT RESTROOMS
- 5 USB AND OUTLETS @ 3'-0" O.C. 110V @ CUSTOMER SIDE (DASHED)
- 6 LED STRIP CUSTOMER SIDE (DASHED)
- 7 SWITCHED OUTLET @ CEILING
- 8 PLUG MOLD @ SERVICE SIDE
- 9 SWITCHED OUTLET FOR CUSTOMER SIDE LED STRIP
- 10 FRONT OF HOUSE DIMMERS PANEL LOCATION. SEE ELECTRICAL SHEETS.
- 11 2-20 AMP CIRCUITS. MOUNT 6'-0" A.F.F. FOR A/V EQUIPMENT. STRUCTURAL ENGINEER TO FIELD DETERMINE ADEQUATE FASTENER GAUGE AND BEST MEANS OF ATTACHING TO EXISTING CEILING DECK
- 12 TG-1 CEILING GRID. SEE FINISH GRID
- 13 TG-2 CEILING GRID. SEE FINISH GRID
- 14 KITCHEN EXHAUST HOOD BY OTHERS. G.G. TO COORDINATE INSTALLATION REQUIREMENTS WITH FOOD SERVICE VENDOR.
- 15 NEW GYP. BD. SOFFIT ABOVE. DIMENSIONS MATCH BAR-TOP BELOW. SEE 6/A8.3. SOFFIT - STRUCTURAL ENGINEER TO FIELD DETERMINE ADEQUATE BEST MEANS OF ATTACHING TO EXISTING CEILING DECK ABOVE
- 16 EXISTING GREASE DUCT CHASE. SEE MECHANICAL AND FOOD SERVICE SHEETS FOR ADDITIONAL INFORMATION.
- 17 NOTE GREASE DUCT CLEAN-OUT REQUIREMENTS AND INSTALL WITH ACCESS ACCORDINGLY.
- 18 EXISTING BUILDING SOFFIT TO REMAIN, 'AS IS'.
- 19 B.O. BULKHEAD AT ELEVATION NOTED. STAINLESS STEEL CAP BY OTHERS.

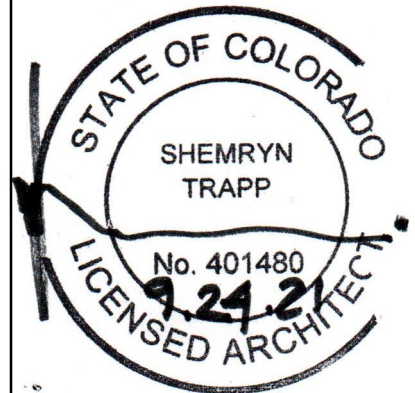
FIXTURE SYMBOLS:



CEILING LEGEND:



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URBAN FIELD PIZZA AND MARKET
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A2.2
 REFLECTED CEILING PLAN

LUMINAIRE SCHEDULE

KEY	DESCRIPTION	MANUFACTURER	LAMP	QTY	VOLT	MT.HT. & NOTES	FURN, INSTALL
A1	PENDANT						
A2	PENDANT						
A3	PENDANT					CENTERED ON TABLE	
A4	PENDANT					MOUNT FROM TRACK	
A5	CUSTOM PENDANT	TRAPP ASSOCIATES	TEN (10) 60 W EDISONS				
A6	PENDANT HEAT LAMPS		(1) 50 WATT				
A7	PENDANT						
B1	WALL MOUNT FIXTURE	60W EDISON				MOUNT 7'-0" A.F.F.	
B2	WALL MOUNT FIXTURE						
F1	2X4 FLUORESCENT - W/CLEAR PLASTIC LENS						
F2	2X4 FLUORESCENT WITH XXX EGGCRATE						
M	DOWN CAN WITH BLACK STEP BAFFEL	PROGRESS 8066-31	SATCO 29450 LED PAR 38 NFL, LN 2700K DIMMABLE				BGC
M1	DOWN CAN WITH BLACK STEP BAFFEL	PROGRESS 8175-28	SATCO 529424 PAR 30 2700K DIMMABLE				BGC
Q	FESTOON LIGHTS	TRAPP ASSOC.	11 W S14 LAMP			MOUNT @ 10'-0" A.F.F.	
SWP	SWITCHED PLUG					MOUNT @ T.O. COLUMN / CLG.	
T1	TRACK	WAC HHT 160					
V2	ADJUSTABLE CANS - 1	TBD	TBD				FBO / BGC
V4	ADJUSTABLE CANS - 2	PEMCRAFT 2110 BLACK	12.5 W LED 2700K 120V DIMMABLE SATCO 529424				FBO / BGC

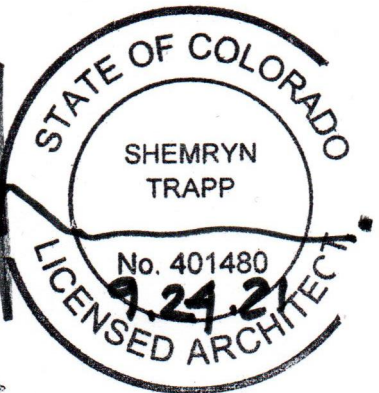
REFLECTED CEILING PLAN NOTES

- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION, FIXTURE SCHEDULE AND MOUNTING INFORMATION.
- REFER TO BUILDING ELEVATIONS AND SECTIONS FOR EXTERIOR BUILDING MOUNTED LIGHTING.
- REFER TO FINISH SCHEDULE FOR MISC. ITEMS TO BE FIELD PAINTED.
- PROVIDE CEILING FINISHES AND HEIGHTS AS INDICATED ON THE FINISH SCHEDULE, UNLESS OTHERWISE NOTED ON THE RCP.
- GC S SHALL COORDINATE THE INSTALLATION OF THE FINISH CEILING WITH THE EC TO ASSURE PROPER ALIGNMENT OF LIGHT FIXTURES, MECHANICAL GRILLS, SPRINKLER HEADS, EXITS SIGNS, SPEAKERS, ETC. . VERIFY WITH RESTAURANT DESIGNER IF THERE ARE ANY DISCREPANCIES. LIGHTING LAYOUT SHOULD TAKE PRIORITY OVER MECHANICAL AND FIRE.
- ALL LIGHTS, SPEAKERS AND OTHER CEILING MOUNTED EQUIPMENT SHALL BE CENTERED IN THE CEILING TILE UNLESS OTHERWISE NOTED. THE CENTERING OF BOOTH LIGHTS TAKES PRIORITY.
- SPEAKER TRIMS, JUNCTION BOX PLATES, HVAC GRILLES, ETC. SHALL BE PAINTED IN SEMI-GLOSS OIL PAINT BY THE GC TO MATCH THE CEILING ADJACENT, UNLESS OTHERWISE NOTED.
- THE AUDIO SUBCONTRACTOR IS RESPONSIBLE FOR DESIGNATING SPREADER LOCATIONS THROUGHOUT THE FACILITY. FOR PROPER INSTALLATION OF AUDIO EQUIPMENT, THE SUB SHALL COORDINATE ANY PROVISIONS NECESSARY BY THE GC. SUBCONTRACTOR TO SUBMIT PLANS, SPECS, INTENT TO DESIGNER FOR REVIEW. AUDIO SUBCONTRACTOR RESPONSIBLE FOR TRIM TO BE PAINTED SEMI GLOSS OIL TO MATCH CEILING.
- THE GC SHALL COORDINATE WITH THE EC TO PROVIDE PROPER SUPPORT OR BLOCKING REQUIRED FOR ALL LIGHT FIXTURES AS REQUIRED.
- SPACING OF HANGERS FOR SUSPENDED CEILING MUST NOT BE MORE THAN 4'-8" O.C. FOR SUPPORTING THE ACOUSTICAL CEILING GRID.
- SUSPENDED ACOUSTICAL GRID SHALL BE CENTERED WITHIN EACH SPACE UNLESS INDICATED OTHERWISE AS A SPECIFIC DIMENSION OR INDICATED GRID STARTING POINT.
- ALL LIGHTING FIXTURES LOCATED ABOVE FIXED TABLE TOPS ARE TO BE CENTERED IN BOTH DIRECTIONS OVER THE TABLE. CLOCK OUTLETS FOR BOOTH LIGHTING TO BE CENTERED 6" BELOW THE TABLE TOP. GC TO COORDINATE WITH BOOTH MANUFACTURER AND RCP FOR FINAL LOCATION PRIOR TO WORK.
- ALIGN CEILING DROPS WITH END OF WALL, FACE OF COLUMN ENCLOSURE OR ADJOINING CEILING DROP, ETC. UNLESS OTHERWISE NOTED.
- T-GRID TILES TO BE EQUALLY DIMENSIONS AT PERIMETER OF SPACES. ROUND UP TO LARGEST EQUAL DIMENSION.
- DIMENSIONS SHOWN ARE BETWEEN FINISH AND/OR CENTER OF FIXTURES.
- WHEREVER POSSIBLE DIMENSIONS BETWEEN LIKE FIXTURES ARE ON DIMENSIONAL GRID.
- FOR ADDITIONAL MOUNTING INFORMATION REFER TO LUMINAIRE SCHEDULE SHEET A7.4
- PAINT HVAC REGISTERS AND GRILLS TO MATCH ADJACENT SURFACE, WITH OIL BASE.
- LIGHTING LOCATIONS TO TAKE PRECEDENCE OVER HVAC

LIGHTING NOTES

- MOUNTING HEIGHTS FOR WALL MOUNTED FIXTURES ARE TO CENTERLINE OF WALL BRACKET/WALL PLATE. AT BOOTHS, MOUNTING HEIGHT IS MEASURED FROM THE TOP OF BOOTH PLATFORM TO CENTER OF JUNCTION BOX.
- MOUNTING HEIGHT FOR HANGING FIXTURES IS FROM FINISH FLOOR TO BOTTOM OF PENDANT SHADE.
- DECORATIVE FIXTURES SHALL BE PROVIDED BY OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE LIGHT FIXTURE SCHEDULE.
- TRIM RINGS TO BE FIELD PAINTED PRIOR TO INSTALLATION. COORDINATE WITH PAINTING CONTRACTOR. SUBMIT ALL COLORS TO RESTAURANT DESIGNER FOR APPROVAL.
- ALL LAMPS TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE LIGHT FIXTURE SCHEDULE FOR SPECIFICATIONS. SUPPLY 1 DOZEN OF EA. SIZE FOR "EXTRAS".
- FAN CONTROLLERS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SUBMIT SPECIFICATION TO RESTAURANT DESIGNER PRIOR TO ORDERING.
- ELECTRICAL CONTRACTOR SHALL VERIFY SIGNAGE REQUIREMENTS WITH SIGN CONTRACTOR.
- DO NOT BREAK HEAT FINS ON DIMMERS. USE AT FULL CAPACITY.
- ALL DIMMERS SHALL BE FACTORY BROWN IN COLOR. NOT PAINTED COVER PLATES. PAINT ALL DIMMER CABINETS GLOSS OIL TO MATCH ADJACENT WALL COLOR - LUTRON 'NOVA' SERIES.
- CONTRACTOR SHALL PROVIDE THREE (3) MATCHING DIMMERS IN ALL CAPACITIES AS OWNER SPARES, LEAVE IN OFFICE FOLLOWING 'TURN-OVER'.
- CONTRACTOR SHALL MOUNT PLASTIC DIMMER NAME PLATES WITH NAMES PROVIDED BY RESTAURANT DESIGNER BELOW APPLICABLE DIMMERS.
- PLUG MOLD SHALL BE INSTALLED CONTINUOUSLY UNDER BAR TOP AT BAR DIE AND BE CONTROLLED BY SWITCH LOCATED AT EXIT TO BAR. SOCKETS SHALL BE SET AT 18" O.C. - 6" IN FROM TOP EDGE.
- EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CONNECTED AHEAD OF SWITCHES IN CIRCUIT. FIXTURES SHALL AUTOMATICALLY LIGHT UPON LOSS OF POWER. SEE ELECTRICAL DRAWINGS FOR LOCATIONS. WHERE LOCALLY REQUIRED, CIRCUIT A MINIMUM NUMBER OF 24 HOUR EXIT AISLE LIGHTING. CONFIRM ALL LOCATIONS AND FIXTURES WITH RESTAURANT DESIGNER. LOCATE TO PROVIDE NAME. ALLOWABLE WALL AREA FOR ART, COORDINATE WITH RESTAURANT DESIGNER ON FINAL LOCATIONS PRIOR TO WORK.
- INTERLOCK ALL TOILET ROOM LIGHT SWITCHES TO TOILET ROOM EXHAUST FANS.
- EC TO PROVIDE TWO 20AMP CIRCUITS TO SOUND SYSTEM RACK, REFER TO FLOOR PLAN FOR LOCATION OF RACK.
- THE SOUND SYSTEM EQUIPMENT AND ACCESSORIES ARE TO BE PROVIDED BY THE SOUND SYSTEM CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS STUBBED TO THE CEILING SPACE FOR ALL CONTROLS AND SPEAKERS. VERIFY FINAL LOCATIONS AND MOUNTING HEIGHTS WITH THE SOUND SYSTEM CONTRACTOR.
- GC TO PROVIDE THE OWNER WITH INSTRUCTIONS FOR THE OPERATION OF ALL ELECTRICAL SYSTEMS.
- GC TO PROVIDE THE OWNER WITH THREE (3) SETS OF MAINTENANCE AND OPERATIONS MANUALS FOR ALL ELECTRICAL EQUIPMENT.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FINAL WIRING OF ALL FOOD SERVICE EQUIPMENT, KITCHEN HOOD FANS, CONTROL PANES, ETC., INCLUDING INTERLOCKS, WIRING, AND HOOK-UPS. CONTROL PANEL IS PROVIDED BY HOOD CONTRACTOR. REFER TO FINISH SCHEDULE DRAWINGS, EXHAUST HOOD SHOP DRAWINGS, SAND SIGNAGE SHOP DRAWINGS FOR SPECIFIC EQUIPMENT INFORMATION. IF A CONFLICT EXISTS BETWEEN THESE DOCUMENTS AND THE ELECTRICAL DRAWINGS, CONTACT THE RESTAURANT DESIGNER PRIOR TO COMMENCING THE WORK.
- ALL RECEPTACLES, SWITCHING, ETC., USED IN PUBLIC AREAS ARE TO BE MOUNTED PER A.D.A. REQUIREMENTS.
- GC TO PROVIDE OUTLET, CONDUIT, ETC., AS REQUIRED BY THE FIRE SUPPRESSION CONTRACTOR.
- EC MUST COORDINATE INSTALLATION OF EXTERIOR 'A6' & 'V2' FIXTURES WITH EC & LANDLORD.
- GC TO PERFORM FINAL HOOK UP OF POWER OF SIGNAGE.
- NOTE: 1 DOZEN OF EACH SIZE LIGHT BULBS TO BE LEFT ON SITE FOLLOWING PUNCH OUT.
- E.C. TO COORDINATE W/ E.E. REQUIREMENTS OF OWNER MEDIA/SECURITY CONSULTANTS.
- E.C. TO CENTER IN BOTH DIRECTIONS PENDANTS AT BOOTH TABLES.

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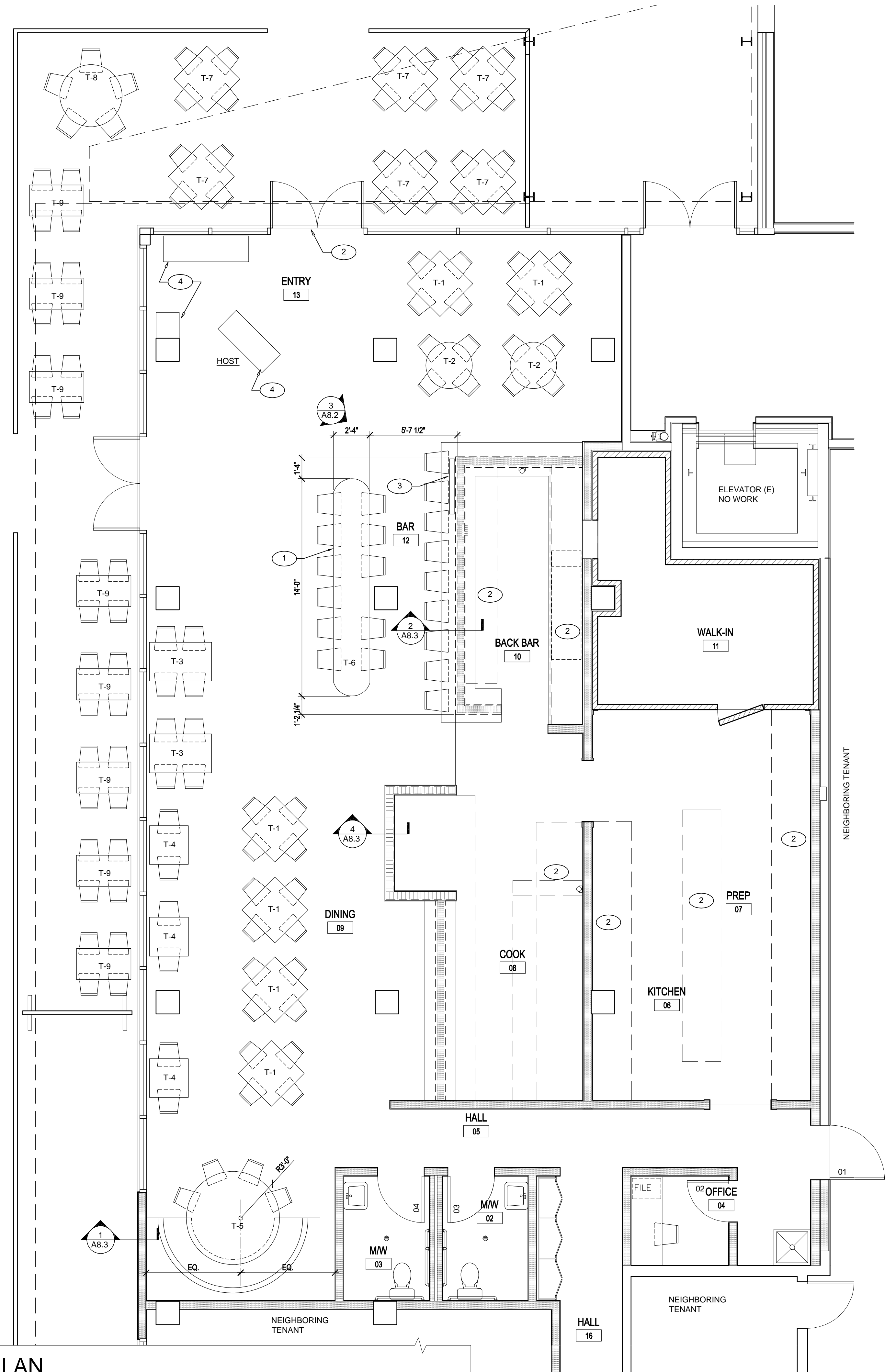


**URBAN FIELD PIZZA
AND MARKET**
150 MAIN STREET BLDG #2
LONGMONT, CO. 80501

SUBMISSIONS:	
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A2.3

RCP NOTES / ELEC. SCHEDULES



FIXTURE PLAN NOTES:

- GC TO COORDINATE WITH OWNER ON SCHEDULING FOR DELIVERY AND INSTALLATION OF FURNITURE.
- PRIOR TO FABRICATING, VERIFY FINAL EQUIPMENT CLEARANCE REQUIREMENTS, CUTOUTS, ACCESS OPENINGS, LOCATIONS AND DIMENSIONS, WITH OWNER'S REP. AND/OR EQUIPMENT SUPPLIER AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATING OR INSTALLING ANY MILLWORK.
- EC TO PROVIDE WIRING HOLES WITH GROMMETS FOR ALL LIGHTING, T.V.S, COUNTER MOUNTED EQUIPMENT, ETC.
- DO NOT SCALE DRAWINGS UNLESS DIRECTED BY ARCHITECT.
- GC TO COORDINATE BLOCKING REQUIREMENTS AND FINISHES WITH FINISH MILLWORK CONTRACTOR. REFER TO DETAIL FOR TYPICAL TABLE SUPPORT BLOCKING AND TRIM REQUIREMENTS
- ALL FURNITURE SHALL BE FURNISHED AND INSTALLED BY OWNER UNLESS OTHERWISE DIRECTED.
- BOOTH WORK AND TABLES TO BE SUPPLIED AND INSTALLED BY OWNER.
- GC WILL PROTECT ALL SURFACES DURING CONSTRUCTION. NOTE: GC RESPONSIBLE FOR ALL DAMAGE TO TABLES, BOOTHS, LIGHT FIXTURES, SHADES, REPAIR OR REPLACE BY 'TURNOVER' DATE.
- FIXTURE TAGS SHOWN IN PLAN IDENTIFY 'TYPICAL' CONDITIONS THROUGHOUT. GC TO CONTACT TRAPP ASSOCIATES FOR CLARITY IF THERE ARE ANY QUESTIONS OR DISCREPANCIES.
- APPLIANCES AND PLUMBING FIXTURES FBO, INSTALLED BGC, U.N.O.
- GC IS RESPONSIBLE FOR VERIFYING THAT ALL BACK OF HOUSE MATERIALS AND CONSTRUCTION ARE IN ACCORDANCE WITH THE FOOD SERVICE DRAWING DIRECTIVES. ESP. AT AREAS REQUIRING WALL BACKING.
- REFER TO DETAILS ON SHEET A7.2 FOR ADDITIONAL FINISH INFORMATION ON LOW WALLS AND MILLWORK.
- COORDINATE EXTENT AND LOCATION OF WALL BLOCKING, REINFORCING AND OPENINGS WITH FOOD SERVICE EQUIPMENT SUPPLIER, PREFAB ENCLOSURE CONTRACTOR AND MILLWORK CONTRACTOR. PROVIDE PLYWOOD REINFORCING AND WOOD BLOCKING BEHIND ALL WALL MOUNTED SINKS AND WALL MOUNTED TOILET ROOM ACCESSORIES, GRAB BARS, AND WOOD TRIM. PROVIDE 2X10 BLOCKING AT ALL BOOTH TABLES FOR ANGLE BRACKET CANTILEVERS. COORDINATE FINAL LOCATIONS WITH RESTAURANT DESIGNER.
- ALL BOOTH DIMENSIONS ARE TO FACE OF PANELING. REFER TO DETAIL FOR TYPICAL END OF BOOTH WALL CONDITION.
- PROVIDE BLOCKING FOR BABY CHANGING STATIONS AS REQUIRED.
- SURFACE MOUNTED PAPER TOWEL DISPENSERS TO HAVE PLYWOOD BACKING DECKS IF NON-EXISTING.
- ALL DIMENSIONS ON FIXTURE PLAN ARE SHOWN FINISH TO FINISH, UNLESS NOTED OTHERWISE.
- EMERGENCY PULLS, STROBES, SIRENS, THERMOSTAT, EMERGENCY LIGHTING SHALL BE LOCATED TO COMPLY WITH CODE BUT WITH CONSIDERATION FOR ART WALLS. COORDINATE WITH RESTAURANT DESIGNER ON FINAL LOCATIONS PRIOR TO WORK.
- AT ALL AC OUTLETS BELOW CABINETS, EC TO PROVIDE GROMMETS FOR CORDS THROUGH TOP, UNO.
- DEBRIS CONTINUOUSLY TO BE REMOVED FROM SITE BY GC.
- BOOTHS AND BANQUETTE SHOWN FURNISHED AND INSTALLED BY OTHERS. BOOTH BASE BY GC.

NOTE: REFER TO SHEET A7.2 FOR FINISH NOTES, AND FINISH SCHEDULE.

KEYED FIXTURE PLAN NOTES A7.1:

- 1 COMMUNITY TABLE
- 2 AREA OF APPROXIMATE EQUIPMENT LOCATION. REFER TO FOOD SERVICE DRAWINGS FOR FINAL EQUIPMENT LOCATIONS
- 3 NEW 24 X 42-3/4 CDX FLIP UP ADA TOP MOUNTED TO BAR DYE FACE WITH CONTINUOUS LOCKING HINGE. TOP FINISH AND EDGING TBD BY OWNER AND TRAPP ASSOCIATES.
- 4 HOSTESS / WAIT FURNITURE TBD BY OWNER

SEATING COUNT		NOTE: ALL SEATING ABUTTING AISLES TO BE ADA ACCESSIBLE.				
TABLE TYPE	QTY.	PROVIDED BY	TYPE	TOTAL	SIZE	DESCRIPTION
T-1	6	FBO	4-TOP	12	36"X36"	FREE-STANDING TABLE, STD HT.
T-2	2	FBO	4-TOP	8	30" DIA.	FREE-STANDING TABLE, STD HT.
T-3	2	FBO	4-TOP	8	30"X48"	FREE-STANDING TABLE, STD HT.
T-4	3	FBO	2-TOP	6	30"X30"	FREE-STANDING TABLE, STD HT.
T-5	1	FBO	8-TOP	8	72" DIA.	4 PERSONS @ CHAIRS, 4 PERSONS @ FIXED
T-6	1	FBO	14-TOP	14	24" X 168"	TABLE BAR HEIGHT
TOTAL INTERIOR:				72		
T-7	6	FBO	4-TOP	24	36"X36"	PATIO TYPE FURNITURE
T-8	1	FBO	6-TOP	6	48" DIA.	PATIO TYPE FURNITURE
T-9	8	FBO	4-TOP	32	30" X 42"	PATIO TYPE FURNITURE
TOTAL EXTERIOR:				62		

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

T R A P P A S S O C I A T E S L T D
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STATE OF COLORADO
SHEMRYN TRAPP
No. 401480
2022
LICENSED ARCHITECT

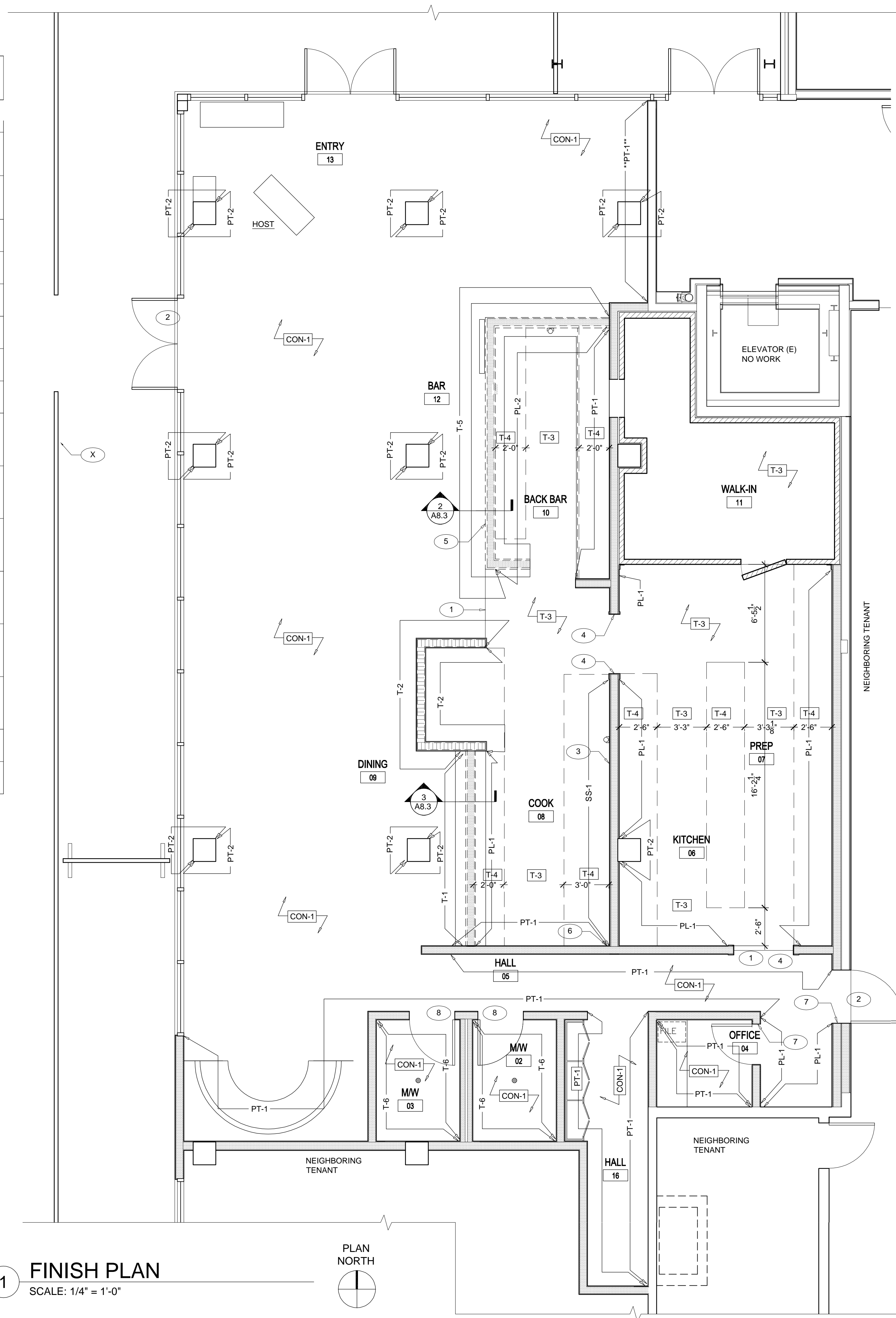
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URBAN FIELD PIZZA AND MARKET
150 MAIN STREET BLDG #2
LONGMONT, CO. 80501

SUBMISSIONS:
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A7.1
FIXTURE PLAN

CODE / MATL	LOCATION	MFRG / SPEC	NOTES
CON-1	GENERAL CONCRETE FLOORS	MFRG: SCOFIELD LITHOCHROME DYE FINISH: SATIN POLY - 2 COATS COLOR: TBD - TRAPP ASSOCIATES	
PL-1	KITCHEN WALLS	MFRG/NAME: MARLITE NAME/NUM: SYMMETRIX COLOR: WHITE SUBWAY, C-100-063 TRIM:	
PL-2	BAR DYE	MFRG/NAME: MARLITE NAME/NUM: SYMMETRIX COLOR: BLACK, P-807 TRIM:	
PT-1	GENERAL WALLS	MFRG: TBD FINISH: TBD COLOR: TBD	APPLY TEXTURE AND PAINT
PT-2	CONCRETE COLUMNS STAIN AND SEAL	MFRG: TBD FINISH: TBD COLOR: TBD	
PT-3	-	MFRG: TBD FINISH: TBD COLOR: TBD	
PT-4	-	MFRG: TBD FINISH: TBD COLOR: TBD	
STN-1	-	MFRG: TBD COLOR: TBD OPACITY: TBD	
STN-2	-	MFRG: TBD COLOR: TBD OPACITY: TBD	
T-1	COOK	MATL: PORCELAIN, POLISHED MFR/SUPL: HOME DEPOT NAME/PAT: 1000-047-213 RUNNING BOND SIZE: 12 X 24 GROUT: MATCH WIPOLYGROUT, 0" GROUT	
T-2	PIZZA OVEN SURROUND	MATL: CARRARA MARBLE MFR/SUPL: DAL-TILE NAME/PAT: VENETIAN CALACATTA SIZE: 3X18 W1X1 EMERADOR GROUT: DARK M725	
T-3	KITCHEN WALKWAYS	MATL: SURETREAD, QUARRY MFR/SUPL: DAL-TILE NAME/PAT: STORM GRAY 0083 SIZE: GROUT: BLACK POLYGROUT OR EPOXY	
T-4	KITCHEN UNDER EQUIPMENT EXTENDS 30" AWAY FROM WALLS	MATL: PAVER, QUARRY MFR/SUPL: DAL-TILE NAME/PAT: STORM GRAY 0083 SIZE: GROUT: BLACK POLYGROUT OR EPOXY	
T-5	BAR DYE WALL	MATL: TILE - TBD MFR/SUPL: NAME/PAT: SIZE: GROUT:	
T-6	RESTROOM WALLS	MATL: TILE - TBD MFR/SUPL: NAME/PAT: SIZE: GROUT:	INCLUDE 6" CERAMIC TILE WALL COVE BASE
TG-1	KITCHEN CEILING	MFRG: ALUM. GRID, WHITE TILES: 24 X 48 VINYL GYP. TILES	
TG-2	BAR / PIZZA CEILING	MFRG: AMERICAN TIN CEILINGS GRID: TILES: 24 X 24	



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

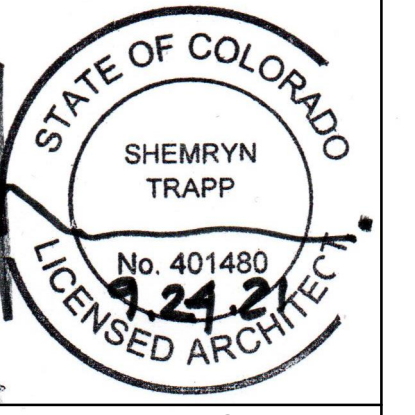
FINISH PLAN KEYED NOTES:

- 1 NOSE PROFILE TRANSITION AT FLOOR TRANSITION TO CONCRETE
- 2 COORDINATE FLOORING LOCATION WITH KITCHEN EQUIPMENT LOCATION. FLOOR THRESHOLDS TO HAVE BEVEL AND BE 1/2" MAX.
- 3 STAINLESS STEEL PANELS AT OVEN HOOD WALL SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER. INSTALLED BY G.C.
- 4 STAINLESS STEEL CORNER GUARD SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER, INSTALLED BY G.C. TYPICAL WHERE NOTED ON FLOOR PLAN
- 5 REFER TO TRAPP ASSOCIATES FF&A SHEETS AND PHOTOS FOR INFORMATION REGARDING TILE PATTERN AT THIS AREA.
- 6 END FRP AND TRANSITION INTO NOTED WALL FINISH AT INSIDE CORNER.
- 7 PAINT DOOR AND FRAME TO MATCH ADJACENT FRP, SATIN FINISH, OIL BASE.
- 8 PAINT DOOR FRAME TO MATCH ADJACENT WALL PAINT, SATIN FINISH, OIL BASE.

FINISH PLAN GENERAL NOTES:

1. DO NOT SCALE DRAWINGS UNLESS DIRECTED BY ARCHITECT.
2. GO TO COORDINATE BLOCKING REQUIREMENTS AND FINISHES WITH FINISH MILLWORK CONTRACTOR. REFER TO DETAIL FOR TYPICAL TABLE SUPPORT BLOCKING AND TRIM REQUIREMENTS
3. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT ABOVE FINISH FLOOR, EXCEPT AT RESTROOMS (1").
4. TRANSITIONS BETWEEN FLOORING MATERIALS SHALL BE FLUSH, EXCEPT AT QUARRY TILE.
5. INSTALL WATERPROOF MEMBRANE AT NEW ALL QUARRY TILE/WALL INTERSECTIONS. MEMBRANE SHALL BE EQUAL TO GRACE CONSTRUCTION PRODUCTS 'PERMA-BARRIER'. PROVIDE 6" COVER ON SLAB, AND TURN MEMBRANE UP WALL A MINIMUM OF 18" AFF.
6. GC WILL PROTECT ALL SURFACES DURING CONSTRUCTION.
7. NOTE: FINISH TAGS SHOWN IN PLAN IDENTIFY TYPICAL CONDITIONS THROUGHOUT. TAGS ON SIMILAR WALL SURFACES AND CONDITIONS SHOULD BE TREATED SIMILARLY. GC TO CONTACT ARCHITECT FOR CLARITY IF THERE ARE ANY QUESTIONS OR DISCREPANCIES ON FINISHES.
8. GC TO PROVIDE SAMPLES OF ALL PAINTED AND STAINED MATERIALS FOR OWNER AND DESIGNER REVIEW AND APPROVAL PRIOR TO WORK COMMENCING.
9. GC TO PROVIDE OWNER WITH OUTLINE AND LITERATURE ON MAINTENANCE OF ALL FINISHES.
10. GC TO OBTAIN, AND HAVE ON SITE AT ALL TIMES OWNER APPROVED SAMPLES AND DIRECTIONS OF MILLWORK & FINISHES.
11. GC IS RESPONSIBLE FOR VERIFYING THAT ALL BACK OF HOUSE MATERIALS AND CONSTRUCTION ARE IN ACCORDANCE WITH THE FOOD SERVICE DRAWING DIRECTIVES, ESP. AT AREAS REQUIRING WALL BACKING.
12. REFER TO DETAILS ON SHEET A7.1 FOR ADDITIONAL FINISH INFORMATION ON LOW WALLS AND MILLWORK.
13. ALL EXPOSED WOOD AT MILLWORK, TRIM, WINDOWS AND DOORS TO RECEIVE STAIN AND FINISH, SEE FINISH SCHEDULE. CHAMFER 1/8" ALL OUTSIDE CORNERS AT ALL NEW WOOD DOORS, CASEMENTS AND CABINETS PRIOR TO FINISH.
14. PROVIDE 5/8" WATER RESISTANT GYPSUM BOARD BEHIND ALL CERAMIC TILE AND FRP AT WALLS IN WAIT STATIONS, KITCHEN, BAR, AND RESTROOM AREAS. PROVIDE ALT. PRICE FOR EXTERIOR GYP. BOARD AT SAME AREAS.
15. USE 5/8" GYPSUM BOARD AT ALL WALLS, PARTITIONS AND CEILINGS WHERE GYPSUM BOARD INDICATED, UNLESS OTHERWISE NOTED.
16. REFER TO FINISH SCHEDULE, FOR INDICATION OF TYPES, COLORS, ETC., OF ALL STONE AND TILE. REFER TO FINISH SCHEDULE AND ROOM ELEVATIONS FOR EXTENT OF WORK.
17. ALL BOOTH DIMENSIONS ARE TO FACE OF PANELING. REFER TO DETAIL FOR TYPICAL END OF BOOTH WALL CONDITION.
18. ALL DIMENSIONS ON FINISH PLAN ARE SHOWN FINISH TO FINISH, UNLESS NOTED OTHERWISE.
19. BASE PROFILE TILE WITH TOE AT WALL TILE BOTTOM ROW IN RESTROOM.
20. DEBRIS CONTINUOUSLY TO BE REMOVED FROM SITE BY GC.
21. SCRUB AND POWER WASH FRP AT WALLS THROUGHOUT BACK OF HOUSE TO 'LIKE NEW' APPEARANCE.
22. GENERAL GYP BD WALL TEXTURE THROUGHOUT TO BE KNOCK DOWN TYPE, PRIMED.
23. TILE SUBCONTRACTOR RESPONSIBLE FOR FINAL DRAIN STRAINER VERTICAL HEIGHT AND ALIGNMENT WITH FLOOR PATTERN. SUBCONTRACTOR TO INSURE ALL FLOORS WILL SLOPE TO DRAIN.
24. POWER WASH QUARRY FLOORING AND EXISTING FRP AT BACK OF HOUSE (KITCHEN) AND BAR AREAS, TYP. FOLLOWING INSTALL.

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URBAN FIELD PIZZA AND MARKET
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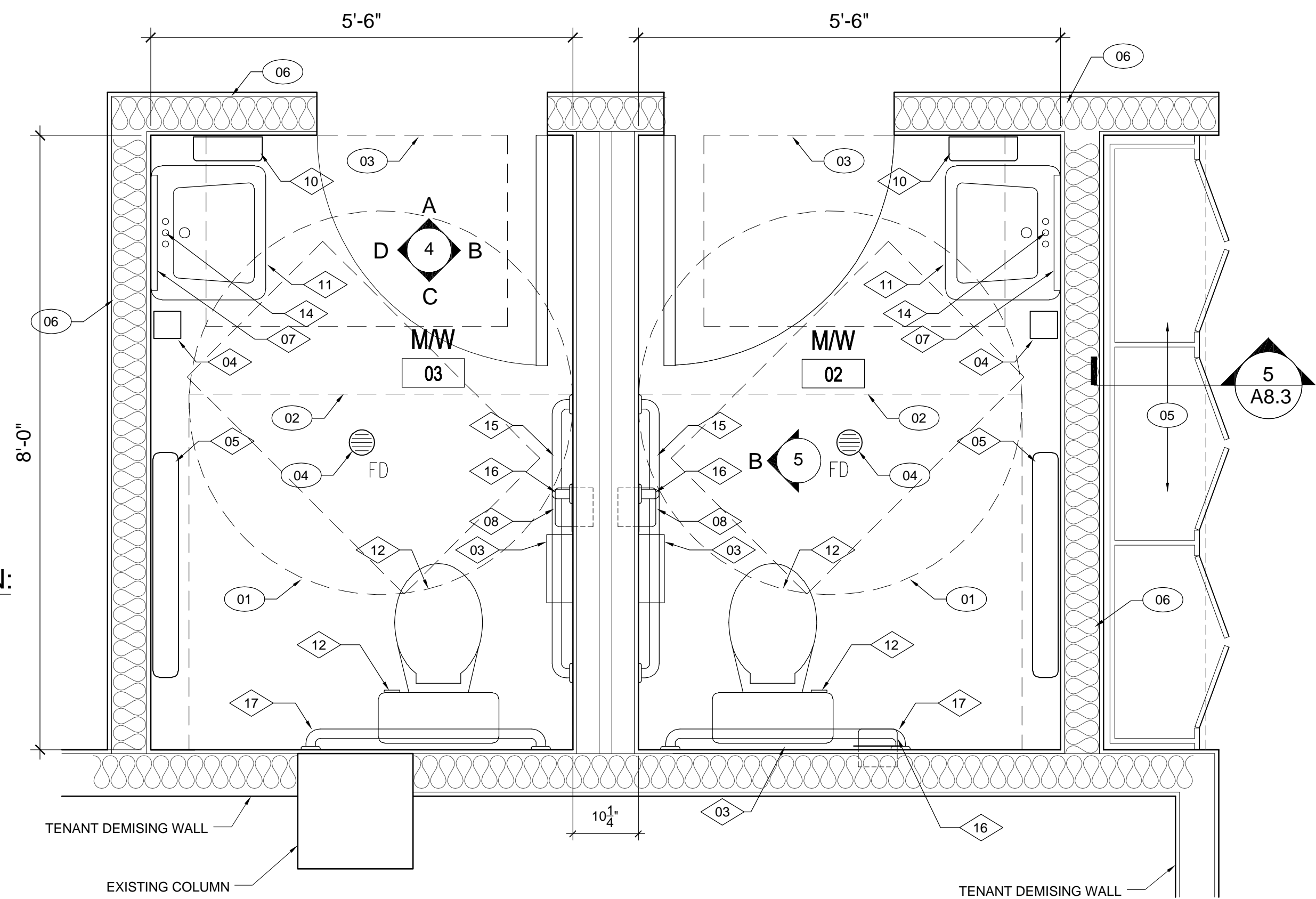
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A7.2
 FINISH PLAN

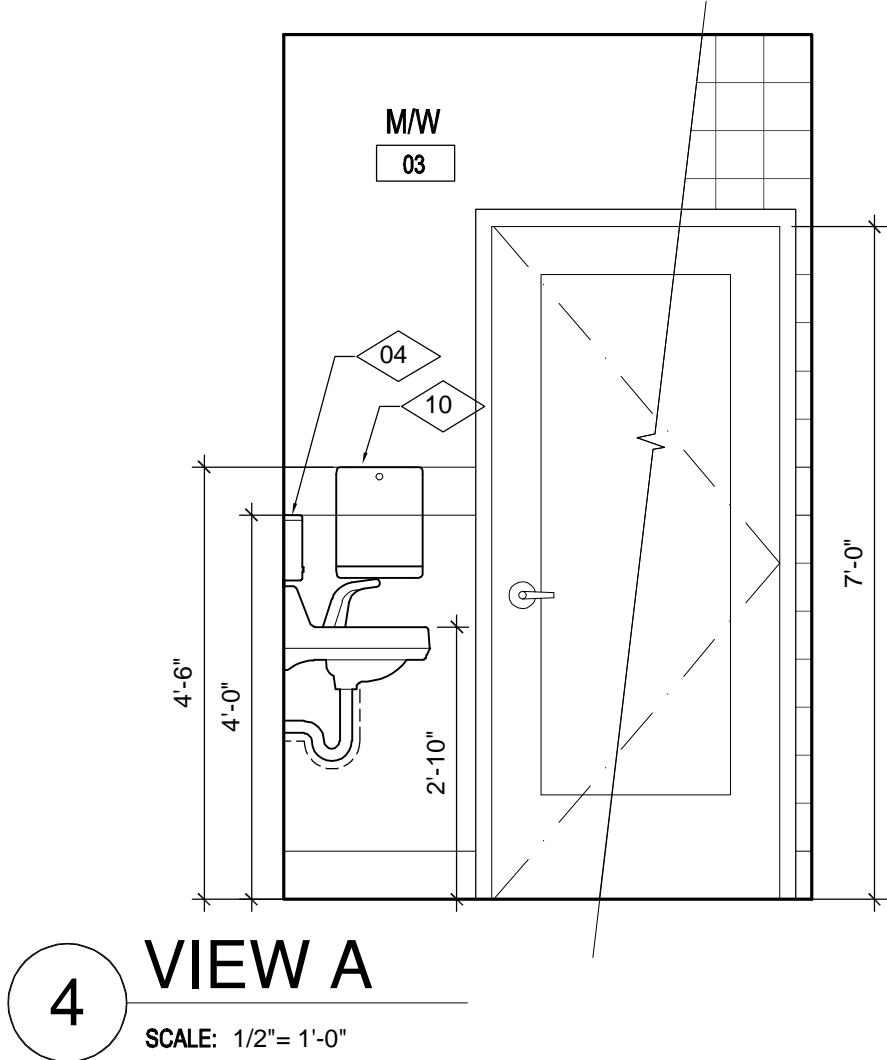
RESTROOM ACCESSORY SCHEDULE - CHECK AGAINST ACCESSORY SCHEDULE ON PLUMBING DRAWINGS						
NO.	ITEM	QTY.	FURNISH INSTALL	SPECIFICATION	MOUNTING	NOTES
01	NOT USED	X	FBO, BGC	X	N/A	
02	NOT USED	X	FBO, BGC	X	N/A	
03	SANITARY NAPKIN DISPENSER	2	TBD	BOBRICK #B-254	PER MFGR FOR ADA COMPLIANCE	WALL MOUNTED. INSTALL WITH SOLID IN-WALL BLOCKING
04	SOAP DISPENSER	2	TBD	BOBRICK #B-2013	T.O. UNIT 52-1/4" A.F.F.	NO-TOUCH, WALL MOUNTED.
05	BABY CHANGING STATION	2	TBD	KOALA TBD	29" AFF TO BOTTOM WHEN OPEN	WALL MOUNTED
07	LAVATORY MIRROR	2	TBD	BOBRICK #B-166 1830	40" MAX. TO B.O. REFLECTIVE SURFACE	CENTER ON LAV
08	TOILET PAPER DISPENSER	2	TBD	BOBRICK #B-3888	PER MFGR FOR ADA COMPLIANCE	WALL MOUNTED, SEMI-RECESSED
09	TOILET SEAT	2	TBD	OPEN, BLACK, HEAVY DUTY	PER MFGR FOR ADA COMPLIANCE	BLACK, OPEN SEAT
10	PAPER TOWEL DISPENSER	2	FBO/BGC	TBD	PER MFGR FOR ADA COMPLIANCE	WALL MOUNTED
11	LAVATORY	2	TBD	SWISS MADISON ST. TROPEZ WHITE, SM-WS 323 24"W X 16"D	WALL HUNG	INSULATE DRAIN PIPE AND WATER SUPPLIES W/ PROTECTORS, RIGID TYPE, LT. GRAY COLOR
12	TOILET	2	TBD	-	-	-
13	ADA MIRROR ???	2	TBD	BOBRICK B-165 2460	B.O. MIRROR 24" A.F.F.	24 X 60 METAL FRAME
14	LAVATORY FAUCET	2	TBD	SILVER WATERFALL TOUCHLESS		
15	HOR. GRAB BAR 42"	GB-2	2	TBD		HORIZONTAL, MOUNTED ALONGSIDE TOILET
16	VERT. GRAB BAR 18"	GB-3	2	TBD		VERTICAL, MOUNTED ABOVE GB-2
17	HOR. GRAB BAR 36"	GB-1	2	TBD		HORIZONTAL, MOUNTED BEHIND TOILET

KEYED NOTES TOILET ROOM PLAN:

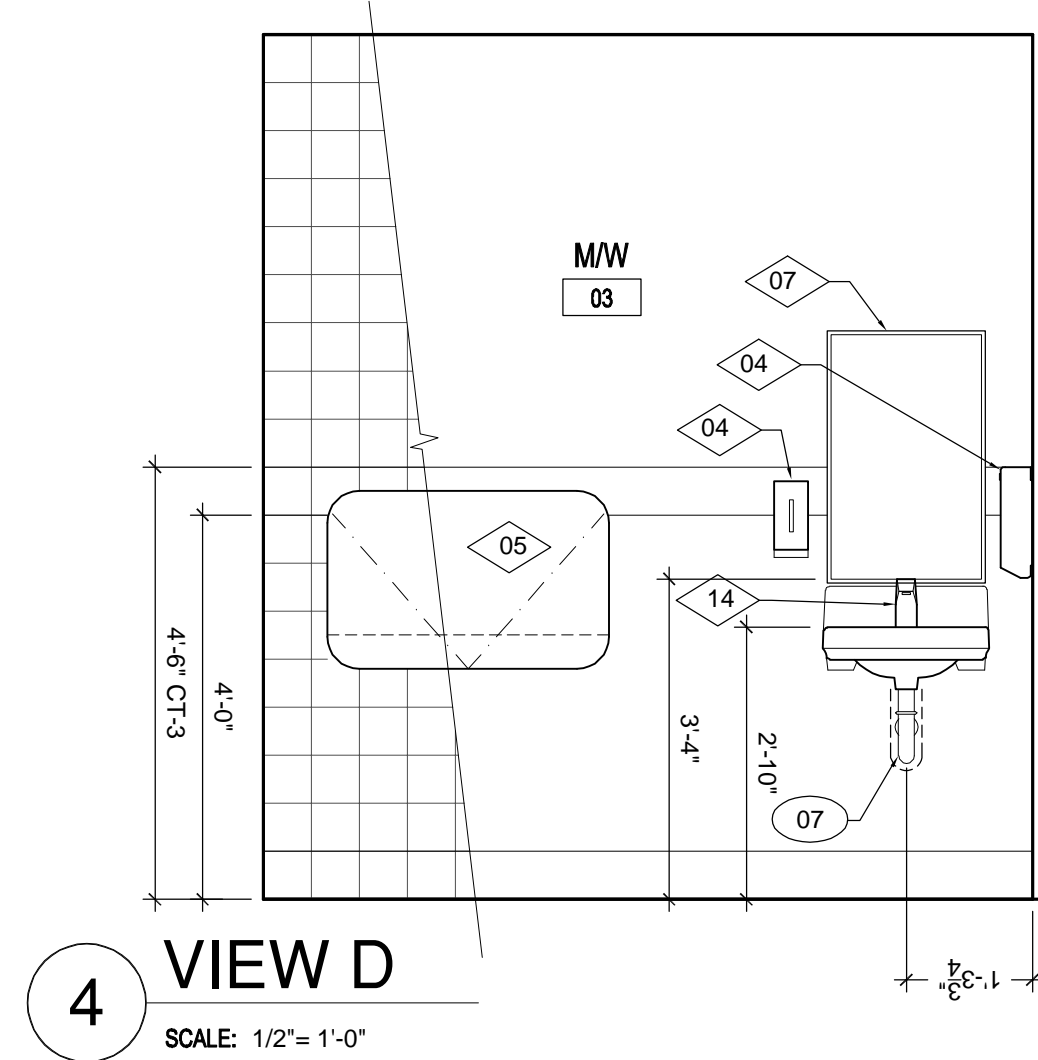
- 01 ADA CLEARANCE CIRCLE 60" DIAMETER
- 02 ADA TOILET CLEARANCE 60" X 60"
- 03 ADA LAVATORY CLEARANCE 48" X 30"
- 04 NEW FLOOR DRAIN - TBD BY OWNER
- 05 NEW MILLWORK
- 06 SOUND BATTS
- 07 PIPE INSULATOR



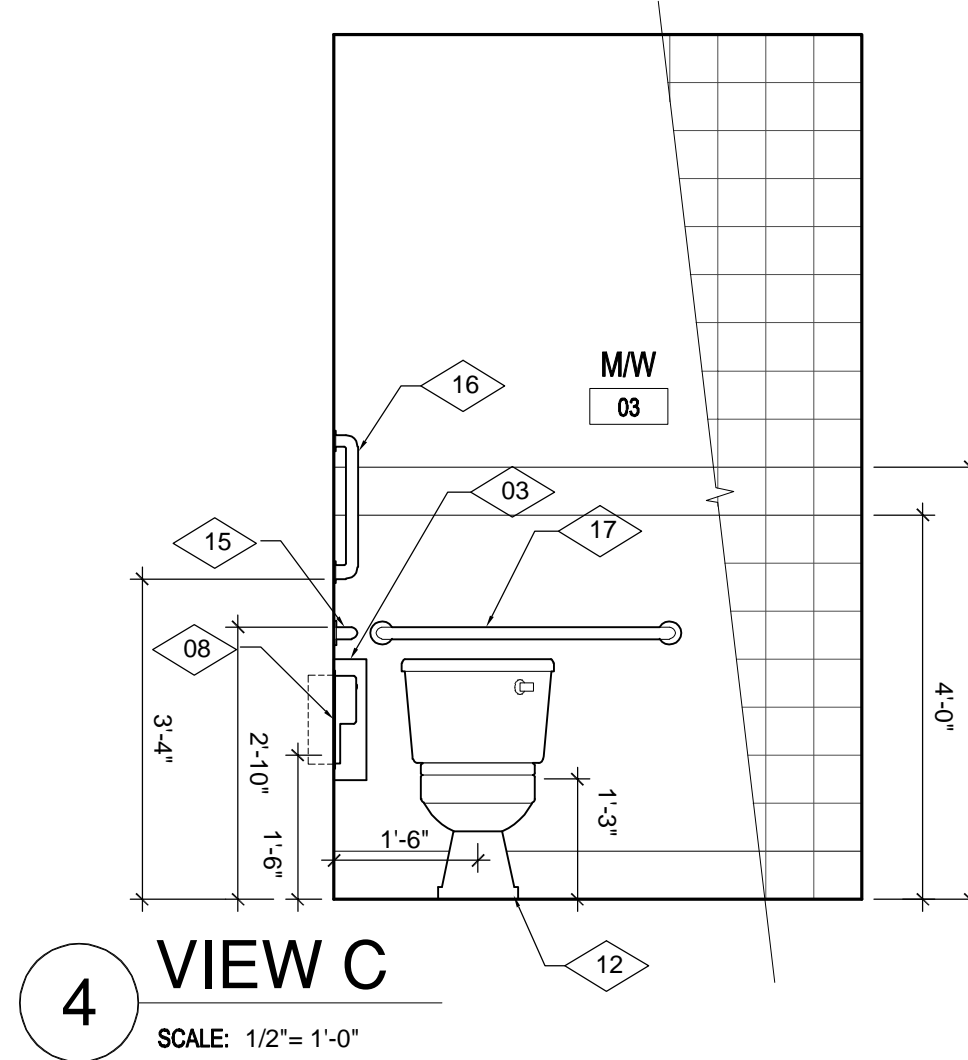
3 TOILET ROOMS
SCALE: 3/4" = 1'-0"



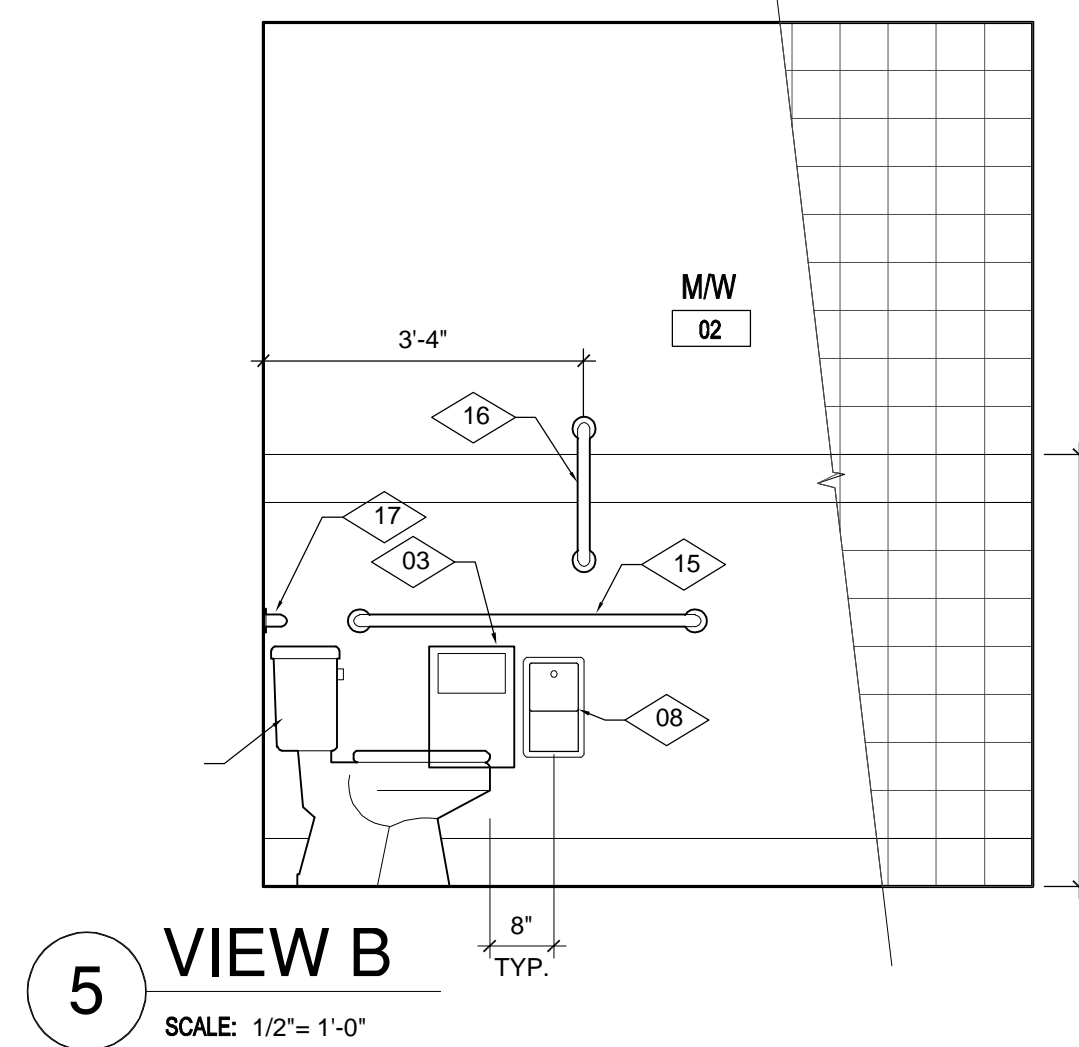
4 VIEW A
SCALE: 1/2" = 1'-0"



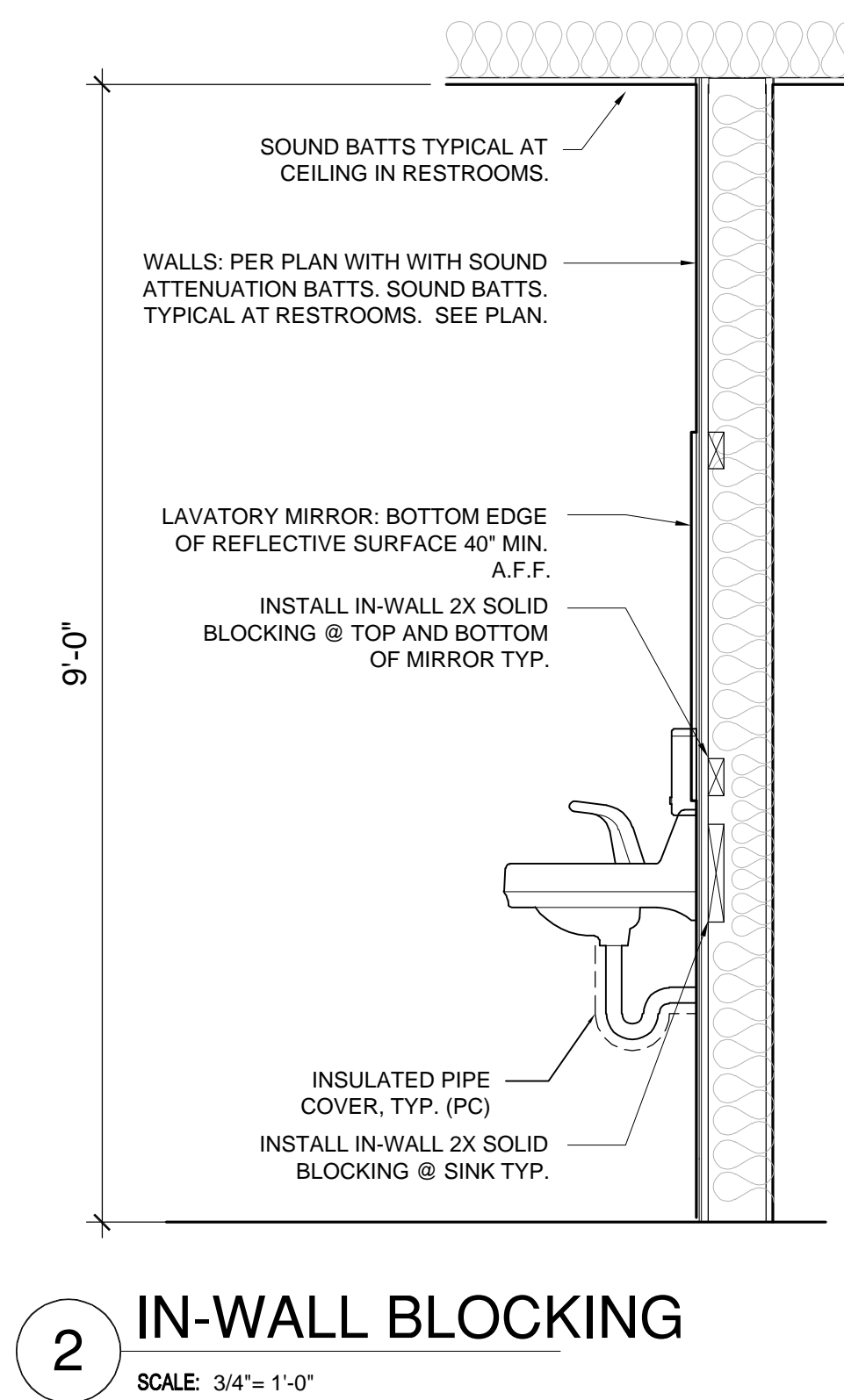
4 VIEW D
SCALE: 1/2" = 1'-0"



4 VIEW C
SCALE: 1/2" = 1'-0"



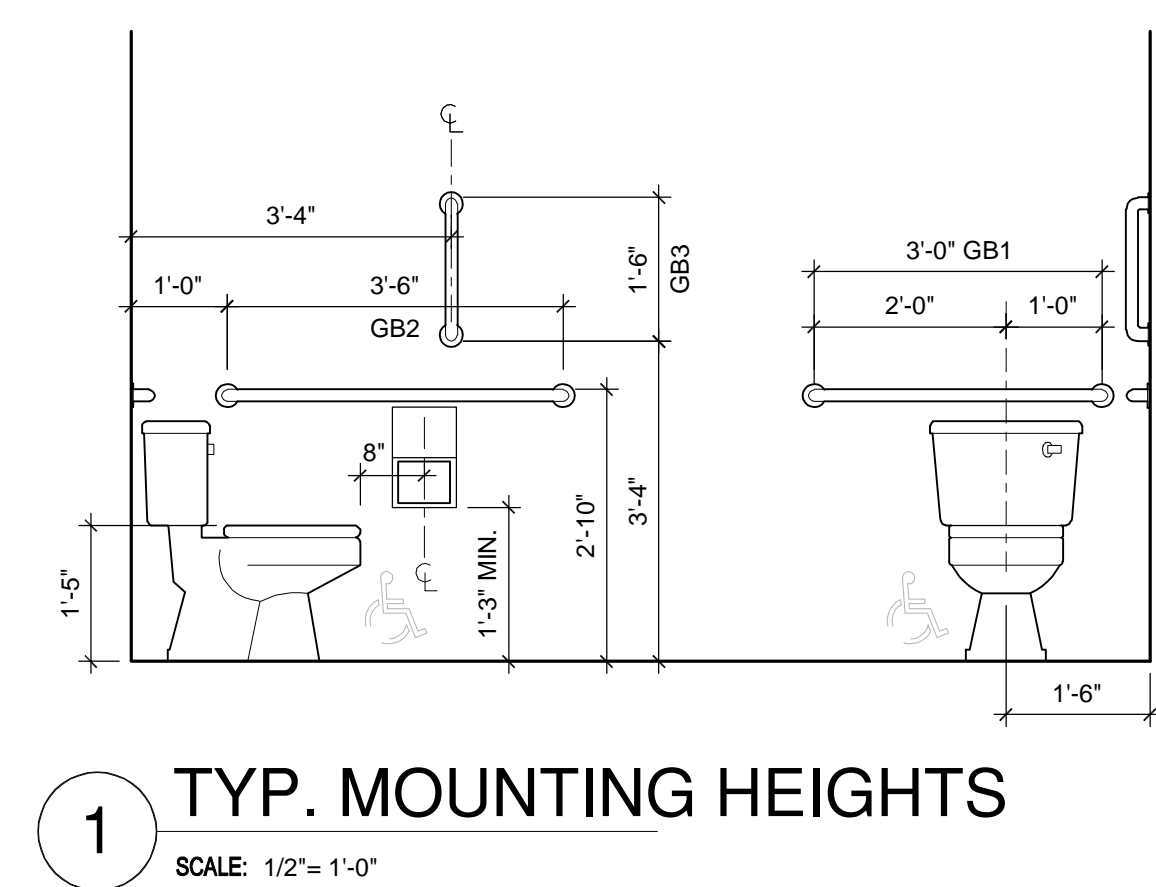
5 VIEW B
SCALE: 1/2" = 1'-0"



2 IN-WALL BLOCKING
SCALE: 3/4" = 1'-0"

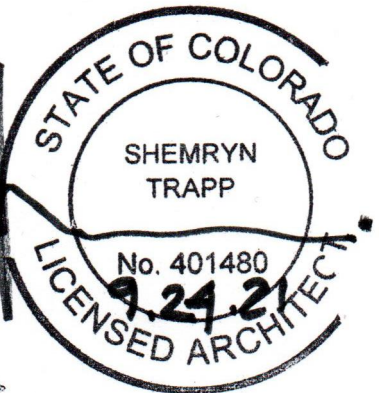
GENERAL NOTES:

- RESTROOM DIMENSIONS SHOWN ON THIS SHEET ARE FINISH TO FINISH UNLESS OTHERWISE NOTED.
- ALL MOUNTING HEIGHTS ARE TO COMPLY WITH CURRENT ADA REQUIREMENTS.
- INSULATE EXPOSED PIPES UNDER LAVATORIES WITH RIGID PROTECTORS, TYP.
- WALL CERAMIC TILE (CT) INCLUDES COVE BASE TILE, FIELD TILE, AND BULLNOSE CAP TYPICAL AND AS REQUIRED.
- TYPE WR GYP. BD. TO BE USED THROUGHOUT RESTROOMS.
- PROVIDE 2X SOLID WOOD BLOCKING BEHIND RR FIXTURES WHERE APPLICABLE INCLUDING BABY CHANGING STATION, GRAB BARS, LAVATORIES, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, ETC.
- RESTROOM WALL TILE CONTINUOUS FROM FLOOR TO CEILING. REFER TO A7.2 FOR FINISH INFORMATION.
- ALL PLUMBING TO POLISHED CHROME FINISH INCLUDING ESCUTCHEONS.
- BATT INSULATION INSTALLED IN FRAMED WALLS ABUTTING PUBLIC SPACE FOR SOUND ATTENUATION.
- REFER TO RCP A2.2 AND ELECTRICAL SHEETS FOR INFORMATION REGARDING LIGHTING AT RESTROOMS.
- BASE CERAMIC TILE TO COMPLIMENT CERAMIC WALL TILE.



1 TYP. MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

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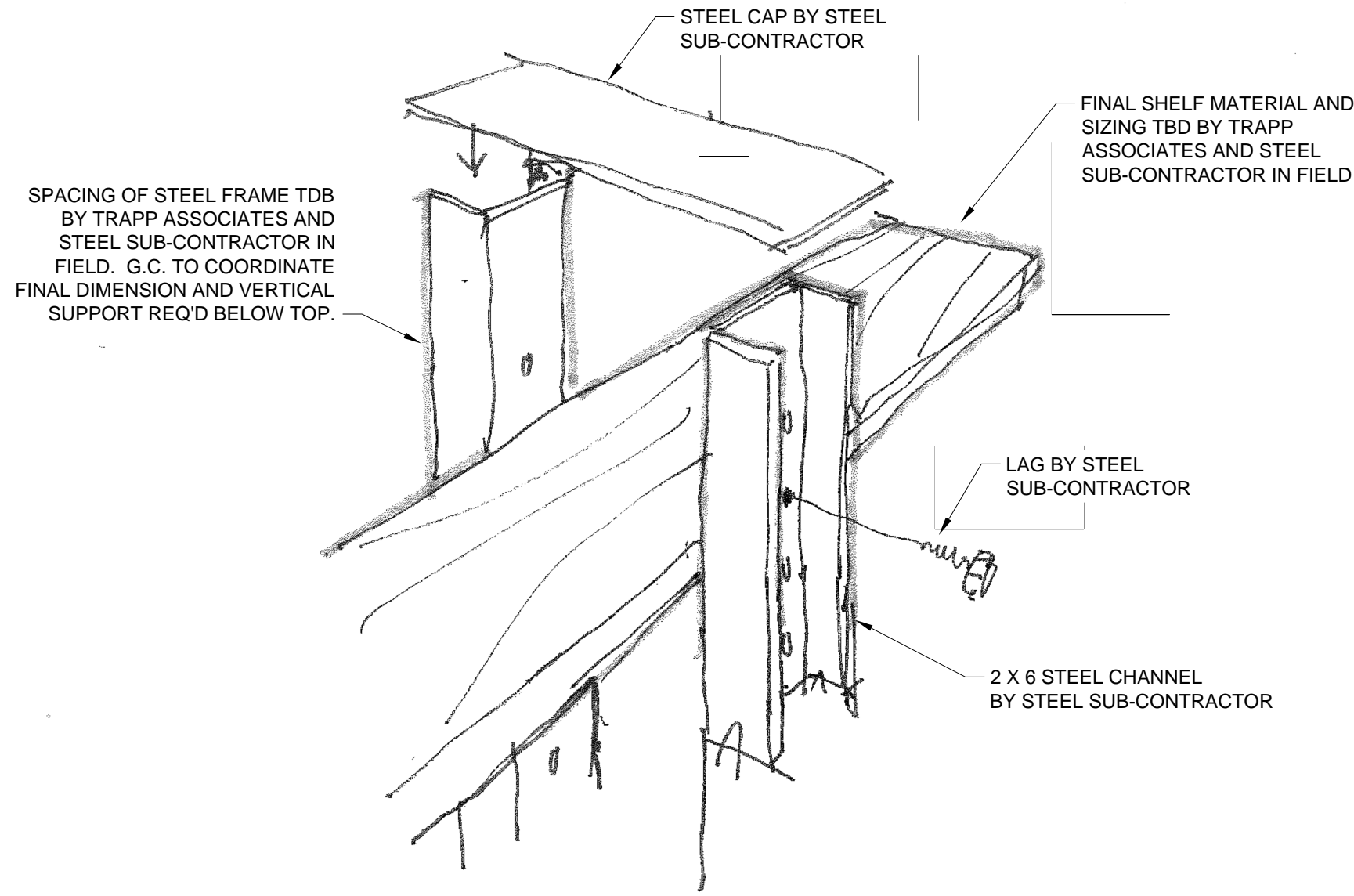


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150 MAIN STREET BLDG #2
LONGMONT, CO. 80501

SUBMISSIONS:
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A8.1
TOILET ROOMS



4 BACK BAR SHELVING
SCALE: N.T.S.

HARDWARE:

HINGES:
RR: HAGER #BB-1199, 1-1/2 PAIR, FINISH US10B
OFFICE: HAGER #1191, 1-1/2 PAIR, FINISH US10B

LATCH/LOCK SET(S):
RR: N/A
OFFICE: YALE MONROE, FINISH US32D

KICK PLATE:
RR: KYDEX IN DARK BROWN FINISH FOR ALL
OFFICE: KYDEX IN DARK BROWN FINISH FOR ALL

PUSH:
RR: HAGER #40R, 3-1/2"X15", FINISH US10B - FBO,
CUSTOM PUSH BY OWNER, INSTALLED BY G.C.

PULL:
RR: CUSTOM PULL BY OWNER, INSTALLED BY G.C.
OFFICE: N/A

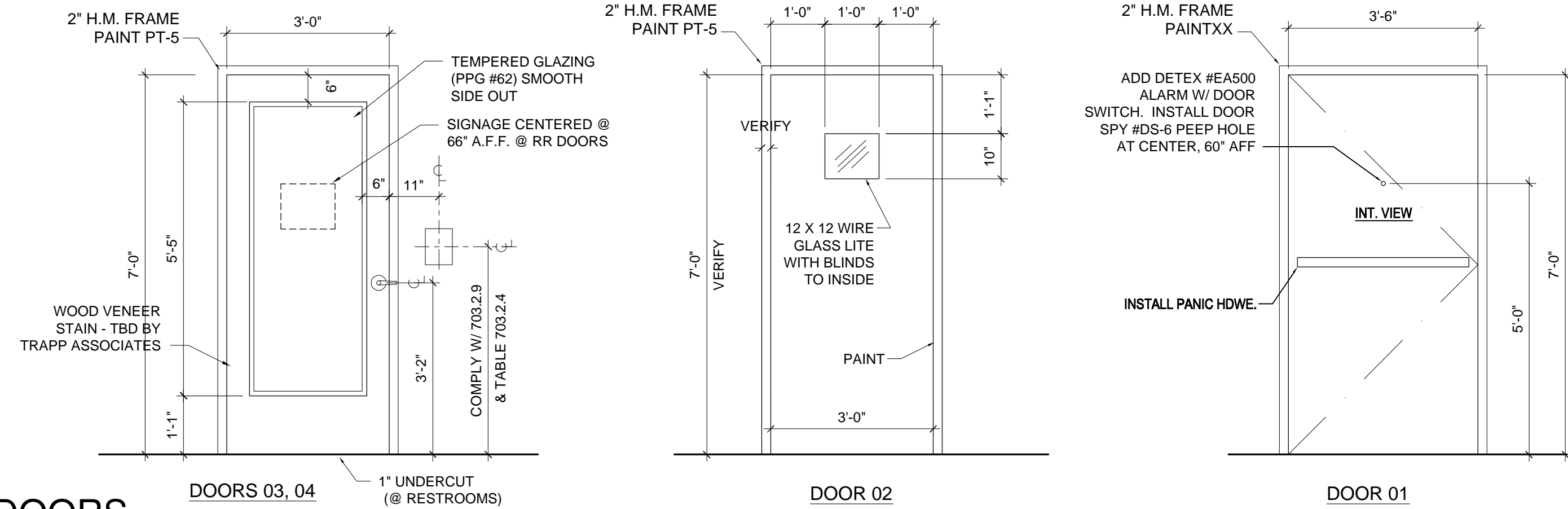
PUSH:
OFFICE: HAGER #40R, 3-1/2"X15", FINISH US10B - FBO,
CUSTOM PUSH BY OWNER, INSTALLED BY G.C.

PULL:
RR: CUSTOM PULL BY OWNER, INSTALLED BY G.C.
OFFICE: N/A

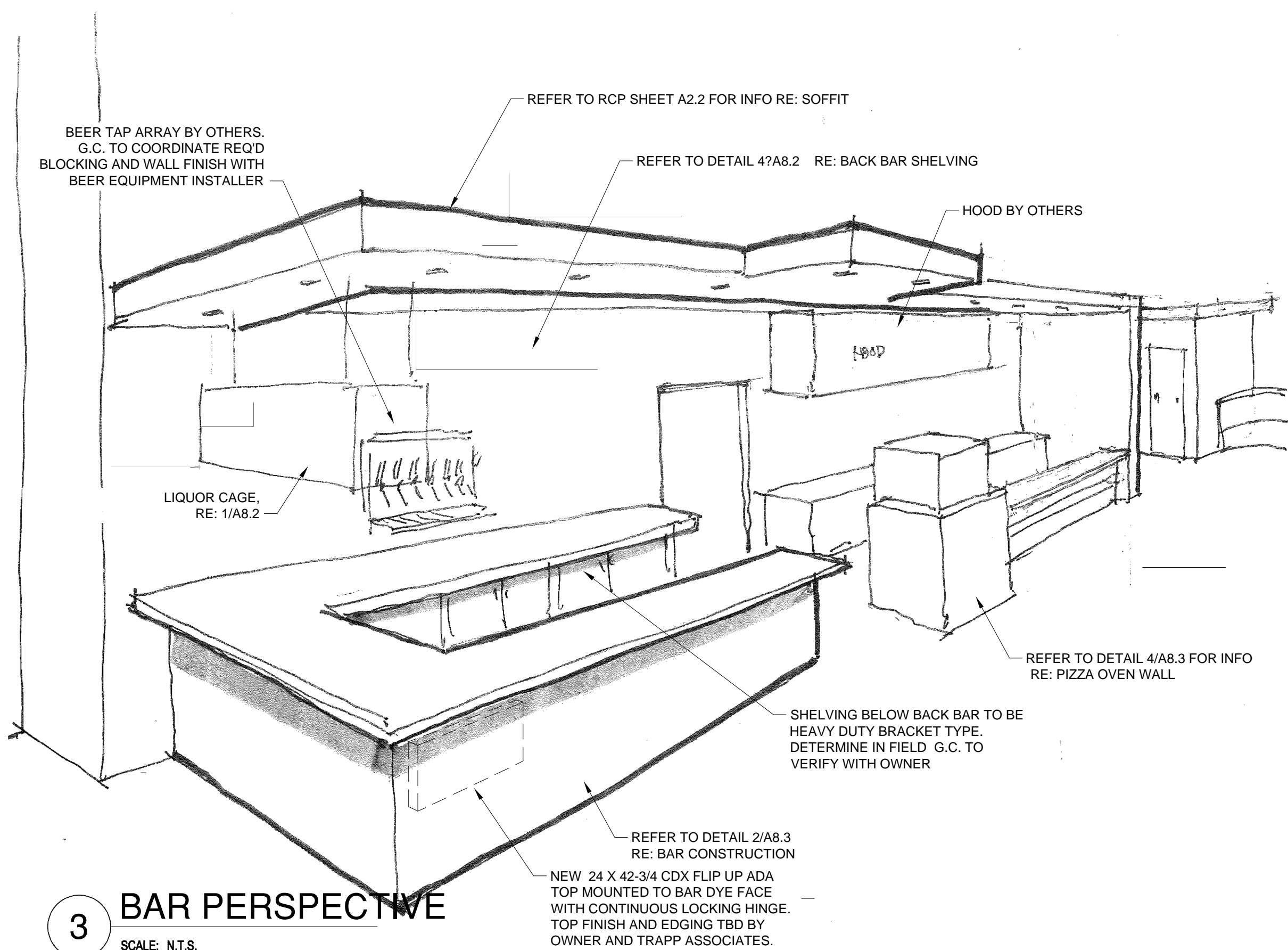
CLOSERS:
RR: YALE #1900, FINISH US10B
OFFICE: LCN #4041, CUSH-H ALUMINUM FINISH

DOOR STOP:
RR: HAGER #256S, FINISH US10B
OFFICE: XXX

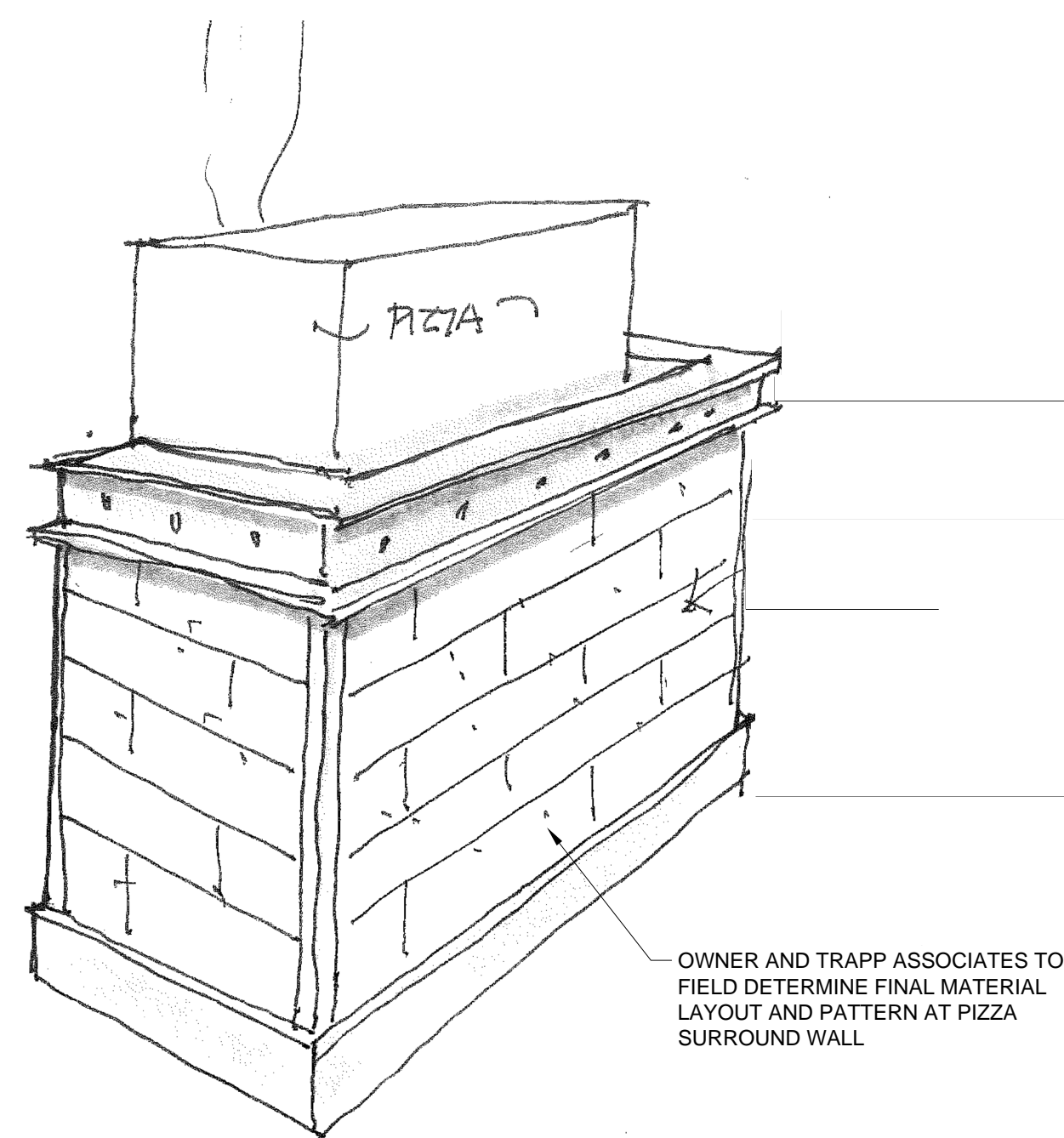
DOOR AND FRAME SCHEDULE											
NO.	SIZE (NOMINAL)	LOCATION	MATERIAL/FINISH	GLAZING	FRAME	LABEL	HEAD	JAMB	FINISH	QTY.	REMARKS
01	3'-0" X 7'-0" X 1-3/4"	KITCHEN	STL / GLASS	TEMP, INSUL LOW E	HOLLOW METAL					1	EXTERIOR
02	3'-0" X 7'-0" X 1-3/4"	OFFICE	WOOD / GLASS	TEMP, LOW E	HOLLOW METAL					1	
03	3'-0" X 7'-0" X 1-3/4"	MW 2	WOOD / GLASS	TEMP, PATTERNED	HOLLOW METAL					1	
04	3'-0" X 7'-0" X 1-3/4"	MW 3	WOOD / GLASS	TEMP, PATTERNED	HOLLOW METAL					1	



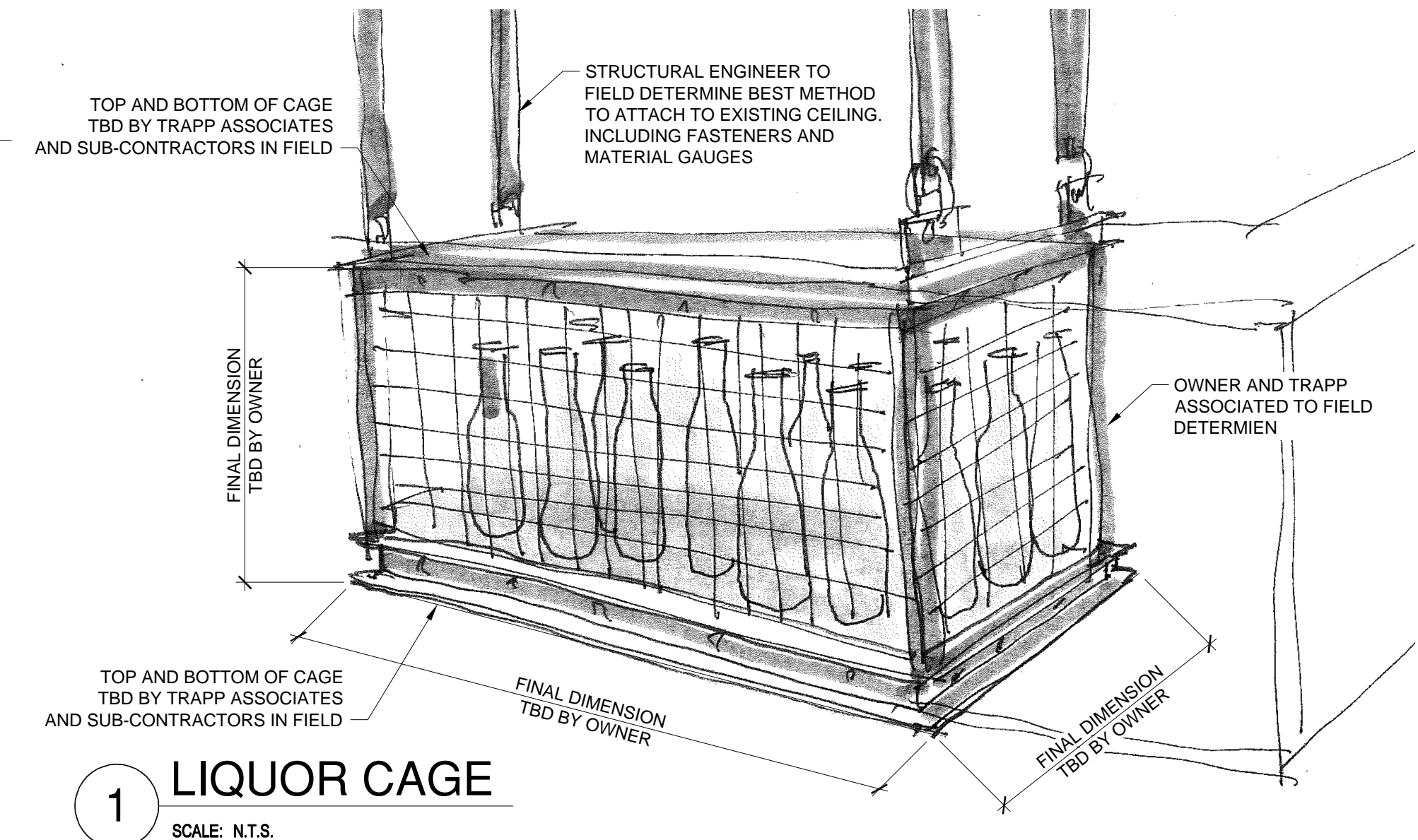
5 DOORS
SCALE: 1/2" = 1'-0"



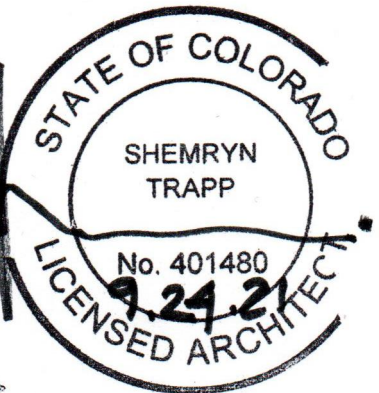
3 BAR PERSPECTIVE
SCALE: N.T.S.



2 PIZZA OVEN SURROUND
SCALE: N.T.S.



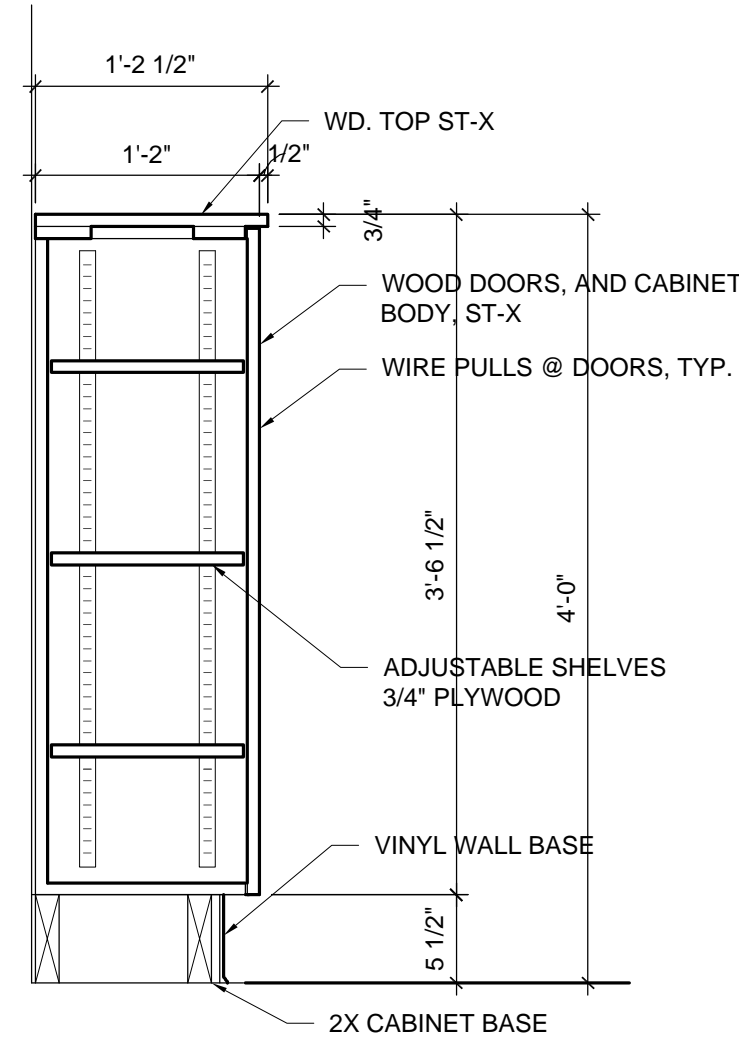
1 LIQUOR CAGE
SCALE: N.T.S.



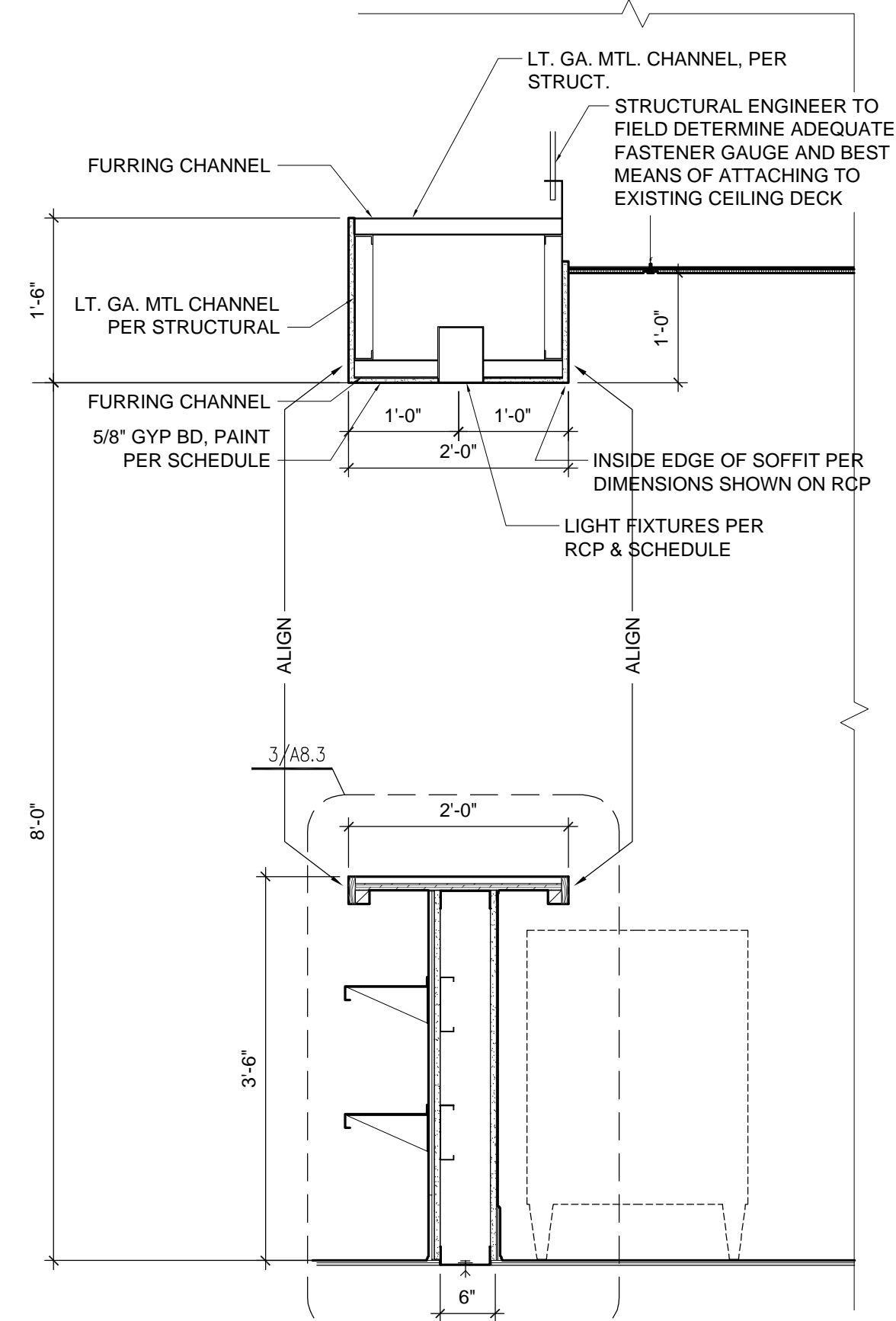
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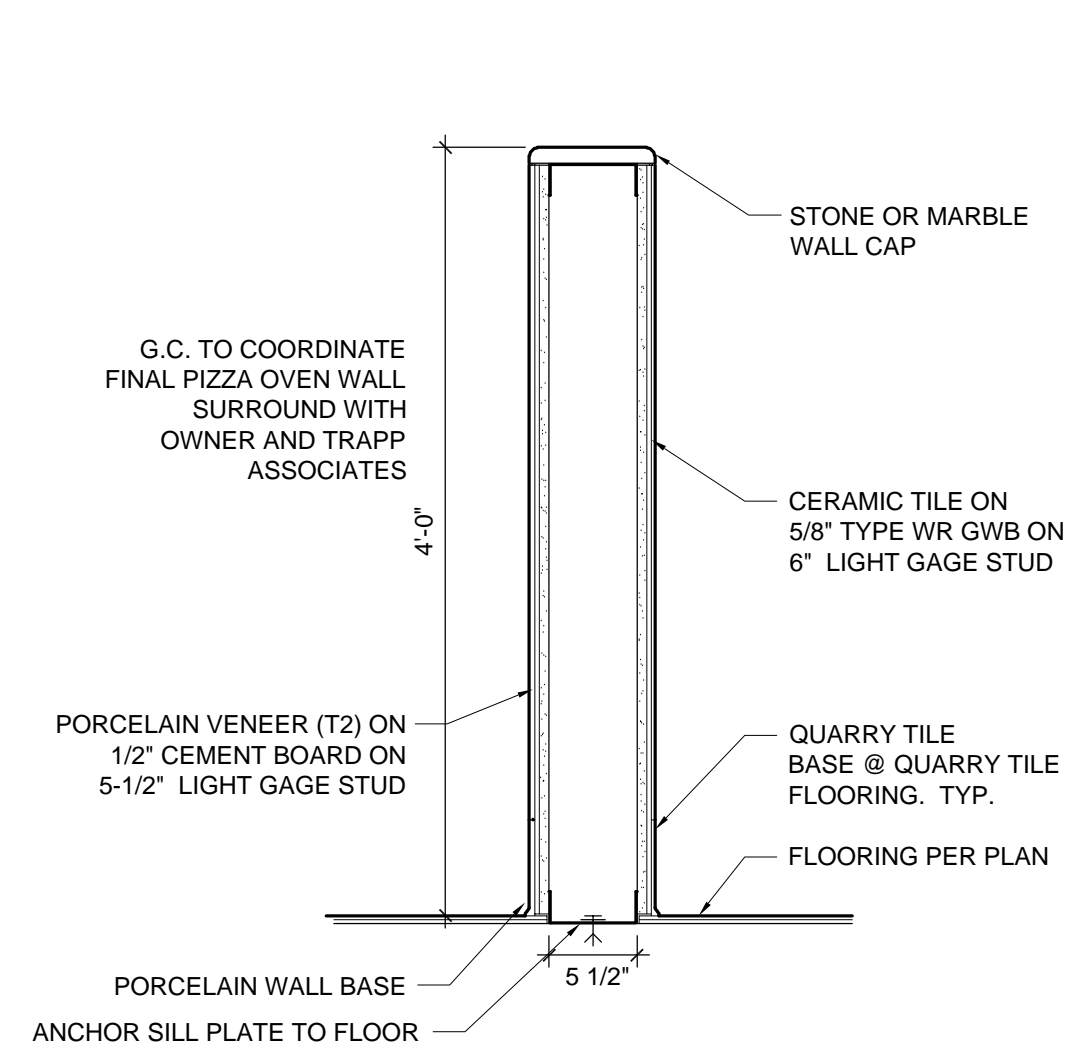


5 CABINET
SCALE: 1" = 1'-0"

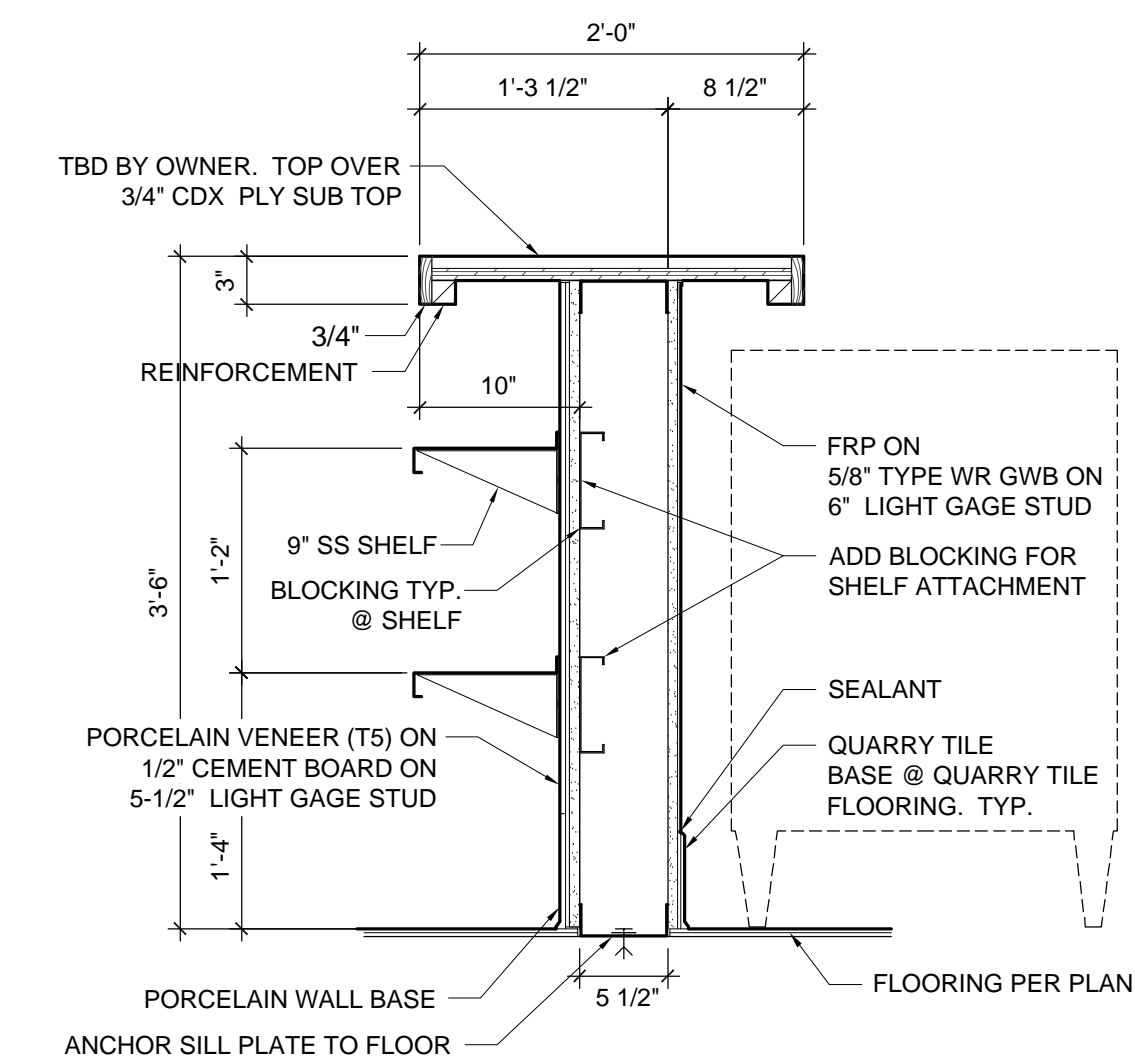


6 BAR TOP @ COOK
SCALE: 3/4" = 1'-0"

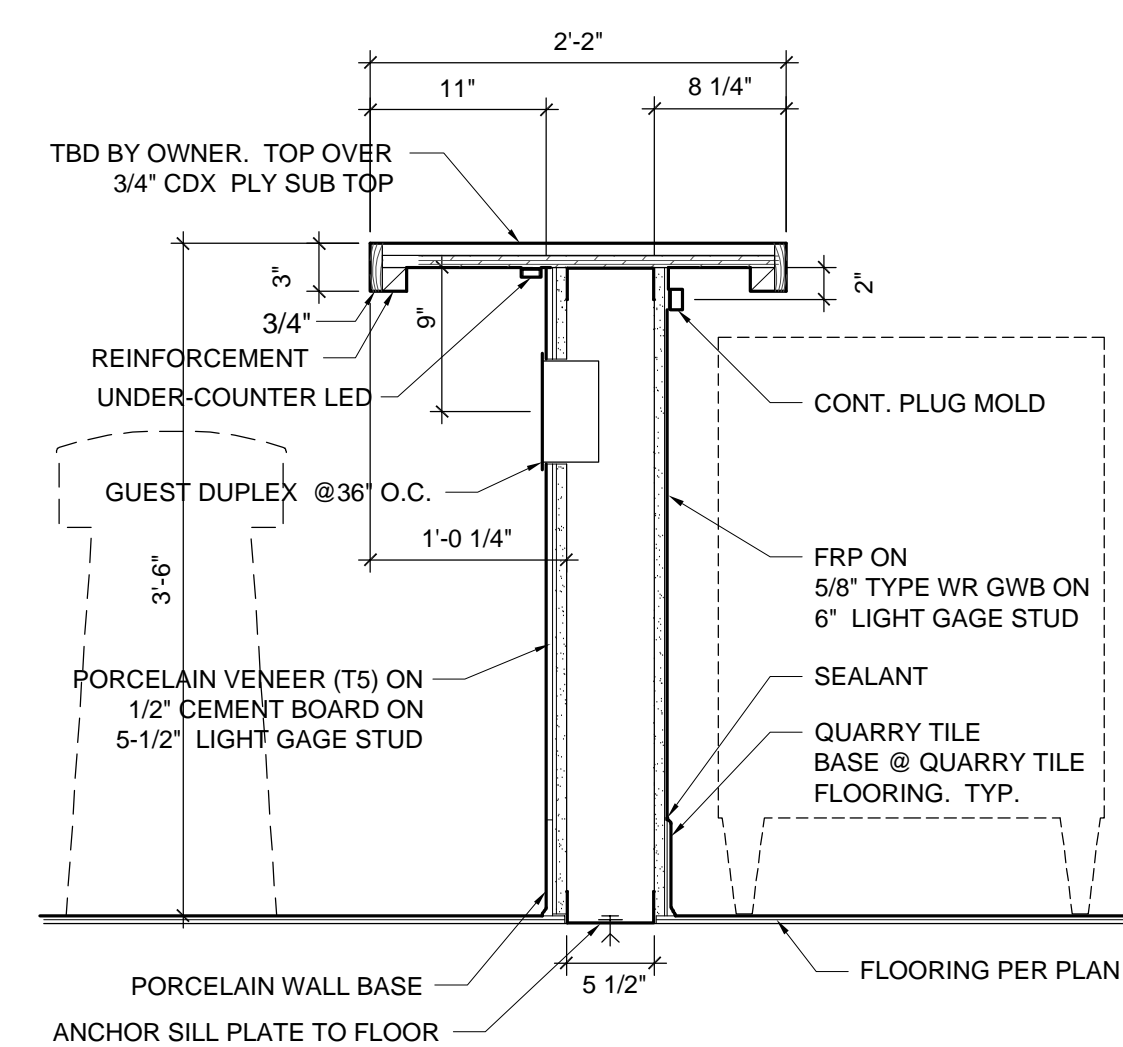
DETAILS: 2, 3, AND 6:
G.C. TO VERIFY ADEQUATE CLEARANCE FROM BOTTOM TO TOP BENEATH COUNTER-TOP WITH FOOD SERVICE VENDOR PRIOR TO WORK



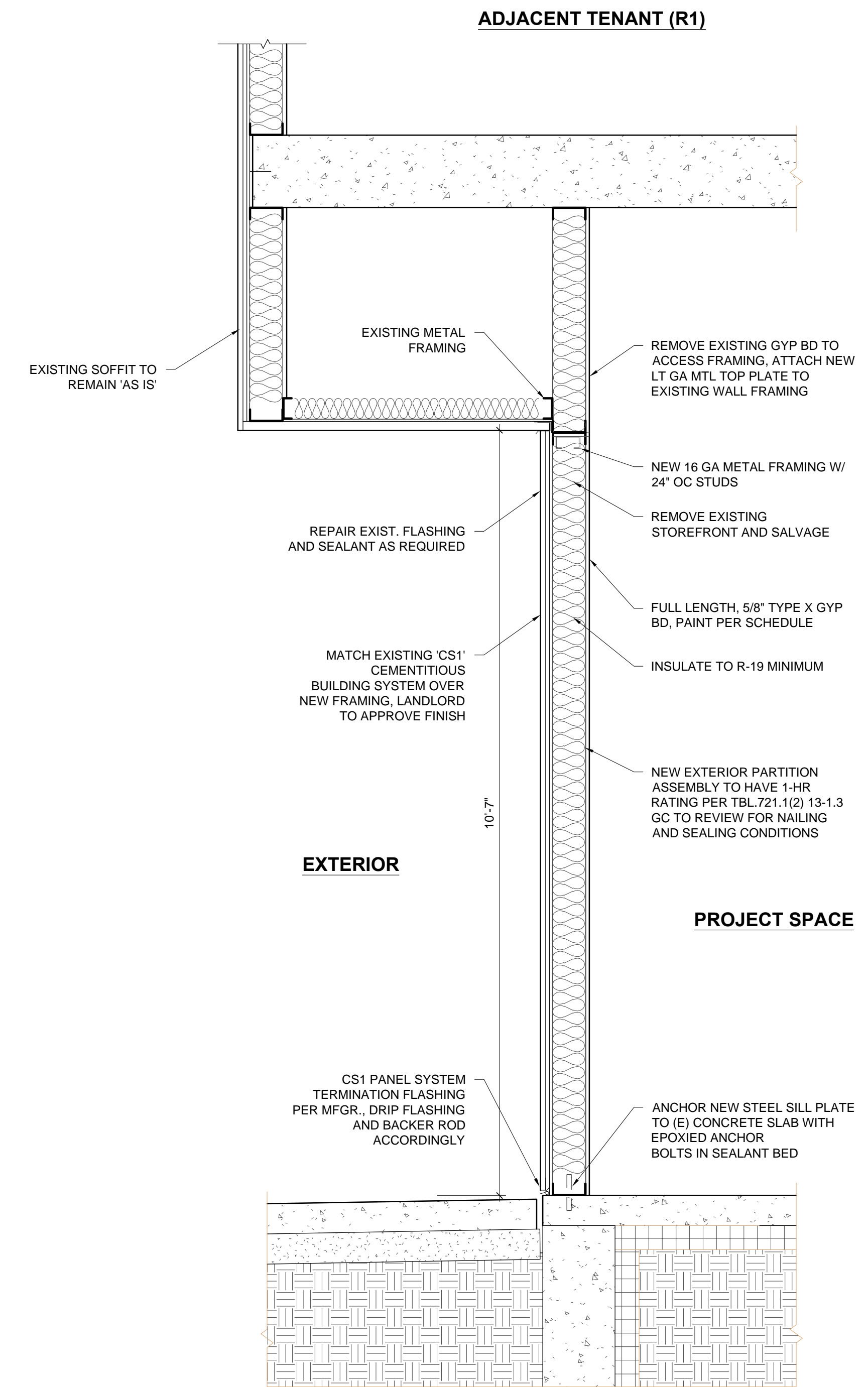
4 PIZZA OVEN WALL
SCALE: 1" = 1'-0"



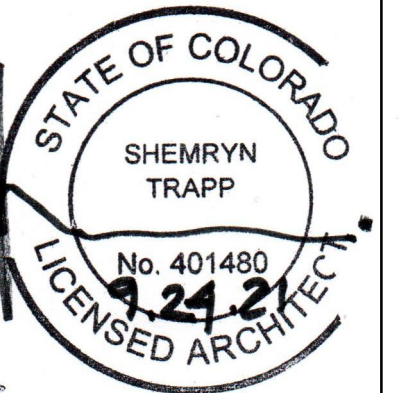
3 BAR TOP @ COOK
SCALE: 1" = 1'-0"



2 BAR TOP @ BAR
SCALE: 1" = 1'-0"



1 INFILL EXTERIOR WALL SECTION
SCALE: 3/4" = 1'-0"

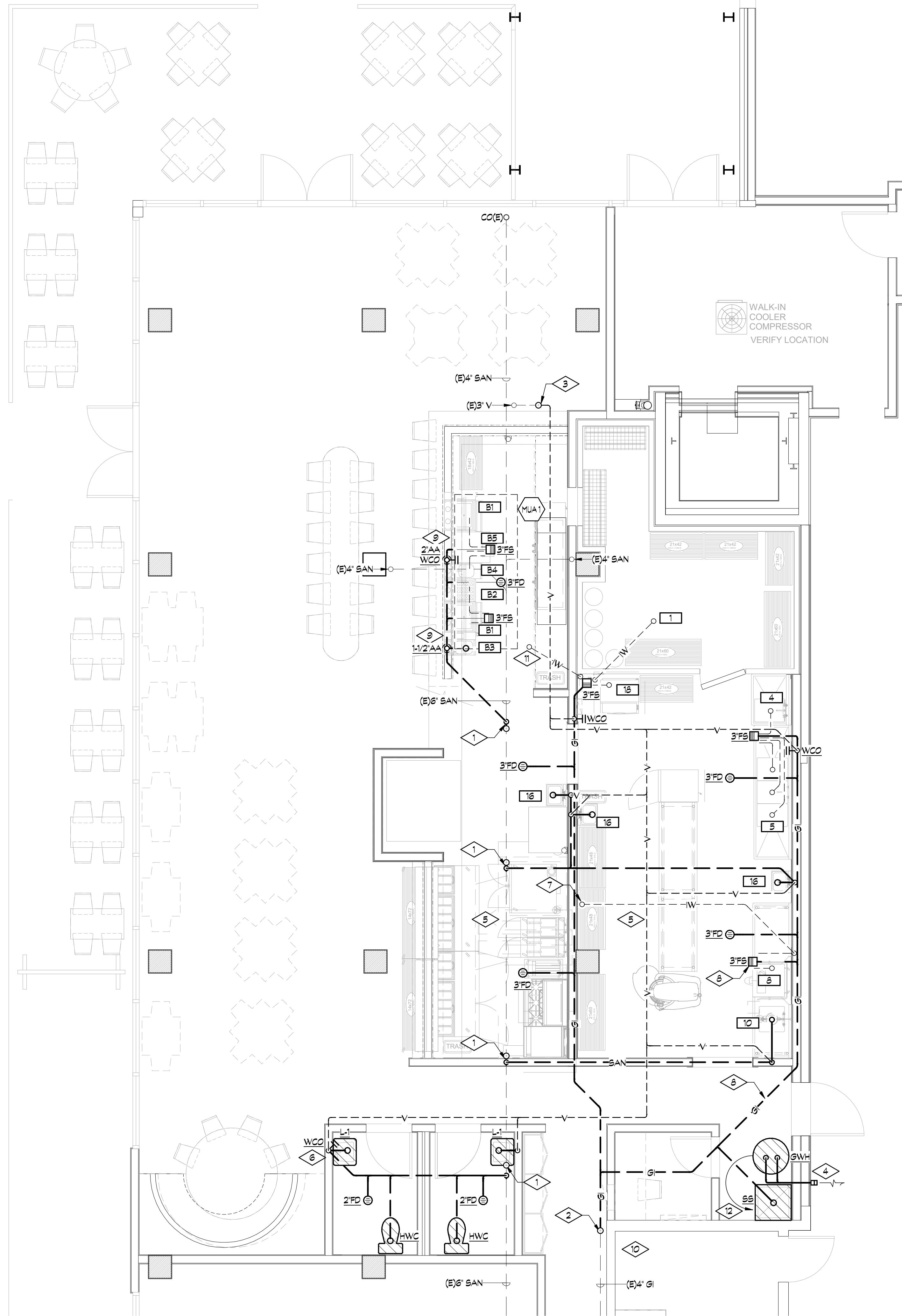


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URBAN FIELD PIZZA AND MARKET
150 MAIN STREET BLDG #2
LONGMONT, CO. 80501

SUBMISSIONS:

PERMIT	2021.09.23



FIRST FLOOR SEWER PLAN
1/4" = 1'-0"

GENERAL NOTES

- A. PLUMBING CONTRACTOR TO COORDINATE SCOPING OF THE EXISTING SANITARY LINES PRIOR TO STARTING WORK.
- B. FIELD VERIFY ALL PLUMBING SYSTEMS, PIPE SIZES, LOCATIONS, ROUTING AND SERVICE IN THE AREA OF WORK PRIOR TO THE START OF ANY WORK.
- C. REFER TO SCHEDULES, DIAGRAMS AND ISOMETRIC DIAGRAMS FOR ALL PIPE SIZES NOT SHOWN ON PLAN. PIPE SIZES OF EXISTING PIPING SHOWN ON PLAN ARE TO BE FIELD VERIFIED, NOTIFY ENGINEER OF ANY DISCREPANCIES.
- D. FIELD COORDINATE ALL EQUIPMENT LOCATIONS AND PIPE ROUTINGS WITH ALL NEW AND EXISTING STRUCTURAL, HVAC, LIGHTS AND ALL OTHER DISCIPLINES PRIOR TO BEGINNING WORK.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY AND ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS/HER WORK, COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
- F. PLUMBING CONTRACTOR TO COORDINATE INSTALLATION HEIGHTS WITH KITCHEN PLANS PRIOR TO ROUGH-IN. MAKE CONNECTION TO EQUIPMENT AS PER KITCHEN SCHEDULE ON P2.1.
- G. WATER, SEWER, GAS AND ELECTRICAL CONDUITS MUST FIT WITHIN WALLS. CONFLICTS WITH OTHER TRADES MUST BE COORDINATED OR WORK WILL BE REDONE.
- H. COORDINATE ALL ACCESS PANEL LOCATIONS FOR VALVES, SHOCK ARRESTORS, AIR ADMITTANCE VALVES AND ALL OTHER PLUMBING COMPONENTS INVOLVING ACCESS WITH ARCHITECT.
- I. NOT ALL ISOLATION VALVES SHOWN ON PLANS. PROVIDE ISOLATION VALVES ON ALL DOMESTIC WATER BRANCH PIPING. COORDINATE ANY AND ALL ACCESS PANELS WITH ARCHITECT.
- J. EQUIPMENT GAS CONNECTION SIZE PER PLANS OR SAME AS APPLIANCE SIZE, WHICHEVER IS LARGER. TRANSITION DOWNSTREAM OF ALL SHUTOFFS AND REGULATORS AS CLOSE TO APPLIANCE AS POSSIBLE WHEN PLANS CALL FOR LARGER THAN APPLIANCE.
- K. EXPOSED SEWER PIPING (TRAPS & INDIRECT DRAINS) MUST BE COPPER, EXCEPT FOR SODA MACHINES (PVC OK). RE: PROJECT SPECS.

DETAIL NOTES THIS SHEET

- 1. CONNECT TO EXISTING SANITARY LINE STUBBED OUT DURING SHELL. FIELD VERIFY EXACT LOCATION, PIPE ROUTING AND INVERT ELEVATION AT POINT OF CONNECTION PRIOR TO BEGINNING WORK.
- 2. CONNECT TO EXISTING GREASE WASTE LINE STUBBED OUT DURING SHELL. FIELD VERIFY EXACT LOCATION, PIPE ROUTING AND INVERT ELEVATION AT POINT OF CONNECTION PRIOR TO BEGINNING WORK.
- 3. CONNECT TO EXISTING SANITARY VENT STUBBED OUT DURING SHELL AND EXTEND AS SHOWN.
- 4. 3" CPVC WATER HEATER FLUE & COMBUSTION AIR PIPES. COORDINATE FINAL LOCATION WITH BUILDING OWNER. ROUTE HORIZONTAL TO WALL. SLOPE PIPE AT 1/8"/FT AND TERMINATE AT WALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE FLUSH TERMINATION ASSEMBLY OR ALUMINUM SHIELDING TO CONCEAL TERMINATION. ANY COVERING MUST MEET MANUFACTURER'S REQUIREMENTS.
- 5. COORDINATE VENT ROUTING TO AVOID DUCTWORK IN THIS AREA.
- 6. WALL CLEANOUT(S) IN RESTROOM MAY NOT BE HIGHER THAN 18" AFF.
- 7. ROUTE DRAIN FROM RPZ TO FLOOR SINK AS SHOWN, DRAIN SIZE TO EQUAL RPZ SIZE.
- 8. THIS SECTION OF SEWER, RELATED BRANCHES & FLOOR DRAINS TO BE JOSAM STAINLESS STEEL PUSHFIT TO A POINT 10' DOWNSTREAM OF DISHMACHINE.
- 9. LOCATE AIR ADMITTANCE VALVE UNDER COUNTER.
- 10. ROUTE ALL PIPING TO AVOID RUNNING OVERHEAD OF ELECTRICAL PANEL(S) IN THIS AREA.
- 11. ROUTE 3/4" DRAIN FROM MUA-1 DOWN ALONG WALL TO FLOOR SINK BELOW. FIELD VERIFY EXACT LOCATION AND PIPE ROUTING PRIOR TO BEGINNING WORK. REFER TO FILL AND DRAIN DETAIL ON P2.1.
- 12. WATER HEATER TO BE LOCATED ABOVE MOP SINK, SHOWN OFFSET FOR CLARITY. SEE DETAIL ON SHEET P2.1.

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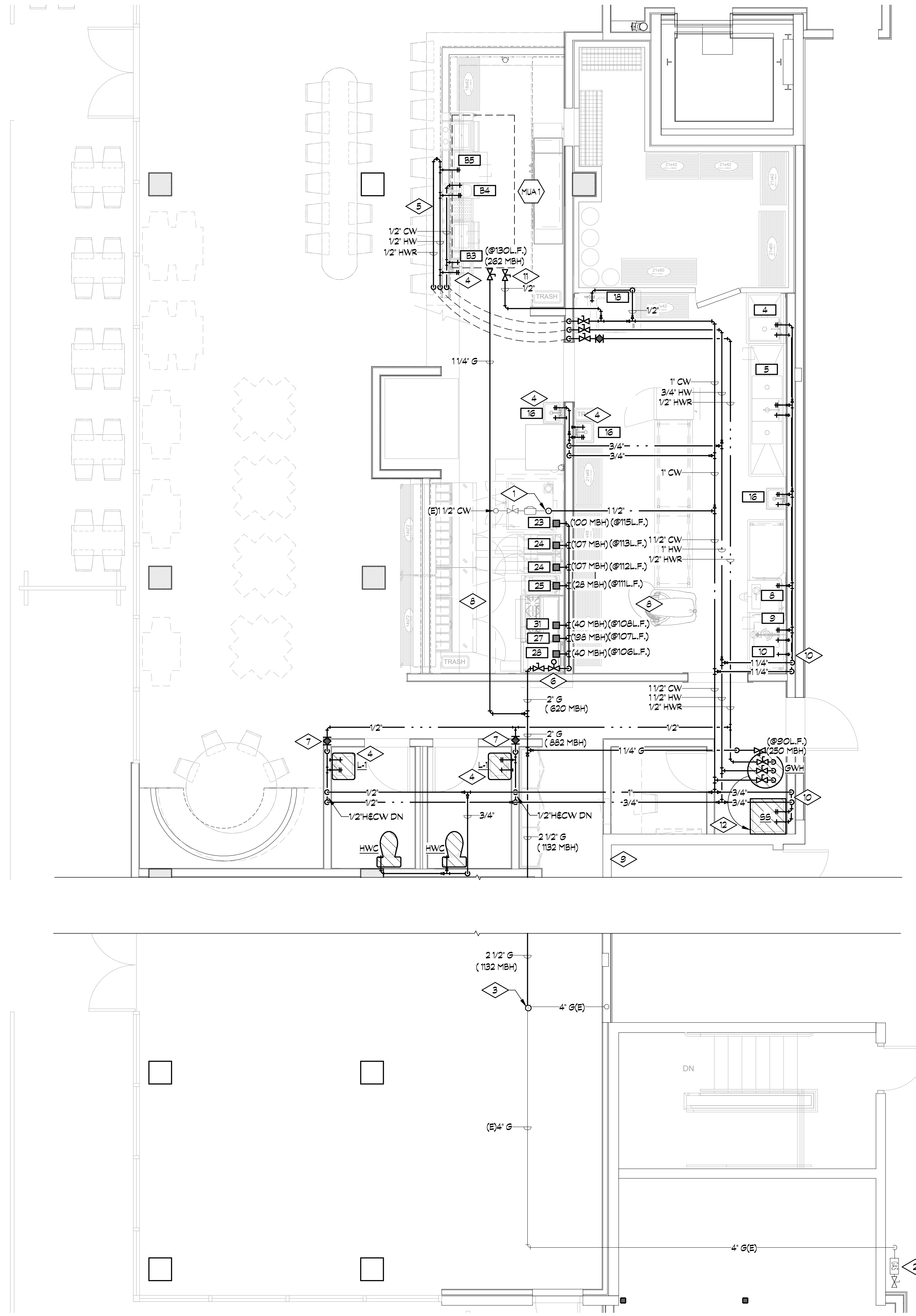


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 LONGMONT, CO.

SUBMISSIONS:

P1.1
FIRST FLOOR SEWER PLAN

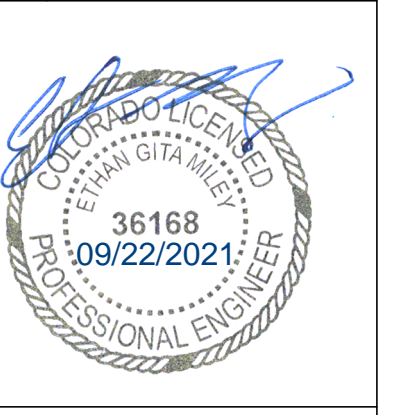


FIRST FLOOR PIPING PLAN
1/4" = 1'-0"

DETAIL NOTES THIS SHEET

1. CONNECT NEW 1-1/2" CW TO EXISTING 1-1/2" CW PIPING. PROVIDE RPZ DOWNSTREAM OF EXISTING SUB-METER W/ REMOTE READOUT, AND PRV. VERIFY REQUIREMENTS & COMPATIBILITY OF ALL CW SERVICE EQUIPMENT WITH LANDLORD BEFORE ORDERING.
2. EXISTING GAS METER IN LOCATION SHOWN.
3. CONNECT TO EXISTING 4" GAS PIPE IN THIS AREA AND EXTEND NEW 2-1/2" GAS LINE TO SPACE AS SHOWN. GAS SIZED FOR 7" W.C. W/ 0.5" PRESSURE DROP. PC TO VERIFY MAX PRESSURE FOR ALL APPLIANCES AND PROVIDE REGULATORS AS NEEDED.
4. PROVIDE ASSE 1016 MIXING VALVE (WATTS USG-B) AND CHECK VALVE ON EACH WATER LINE. ADJUST VALVE TO PROVIDE 110F DEG. WATER FOR HANDSINK. LOCATE IN ACCESSIBLE LOCATION BELOW SINK. SEE POINT OF USE DETAIL ON SHEET P2.1.
5. RUN PIPING IN MILLWORK/BAR DIE.
6. 2" GAS COCK AND MECHANICAL GAS VALVE (BY KEC) IN ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE NECESSARY INTERLOCKS WITH HOOD FIRE PROTECTION SYSTEM. RUN GAS PIPING IN WALL, STUB OUT TO EQUIPMENT W/ QUICK CONNECT FITTINGS PER SCHEDULES AND SPECS. PROVIDE ESCUTCHEONS FOR WALL PENETRATIONS.
7. PROVIDE THERMOSTATIC RECIRCULATION VALVE, CIRCUITSETTER CS-1/2-110, IN ACCESSIBLE LOCATION.
8. COORDINATE ALL PIPING IN THIS AREA WITH MECHANICAL DUCTWORK / HOOD; DUCTWORK TO TAKE PRIORITY.
9. ROUTE ALL PIPING TO AVOID RUNNING OVERHEAD OF ELECTRICAL PANEL(S) IN THIS AREA.
10. INSTALL PIPING ON WARM SIDE OF INSULATION.
11. 1/2" COLD WATER UP TO MUA-1 ABOVE IN APPROXIMATE LOCATION SHOWN. FIELD VERIFY EXACT LOCATION AND EQUIPMENT CONNECTION REQUIREMENTS. REFER TO FILL AND DRAIN DETAIL ON P2.1.
12. WATER HEATER TO BE LOCATED ABOVE MOP SINK, SHOWN OFFSET FOR CLARITY. SEE DETAIL ON SHEET P2.1.

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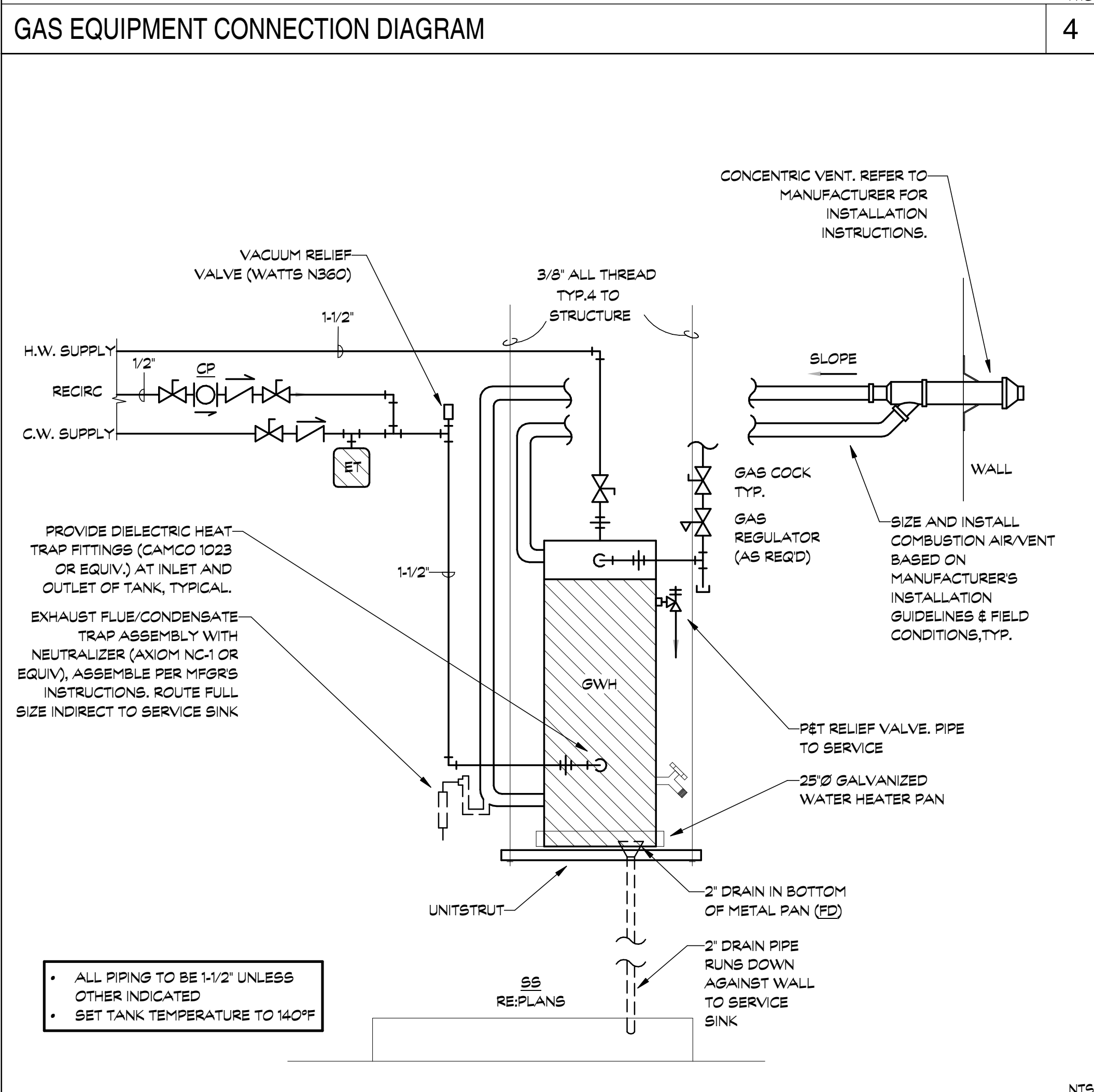
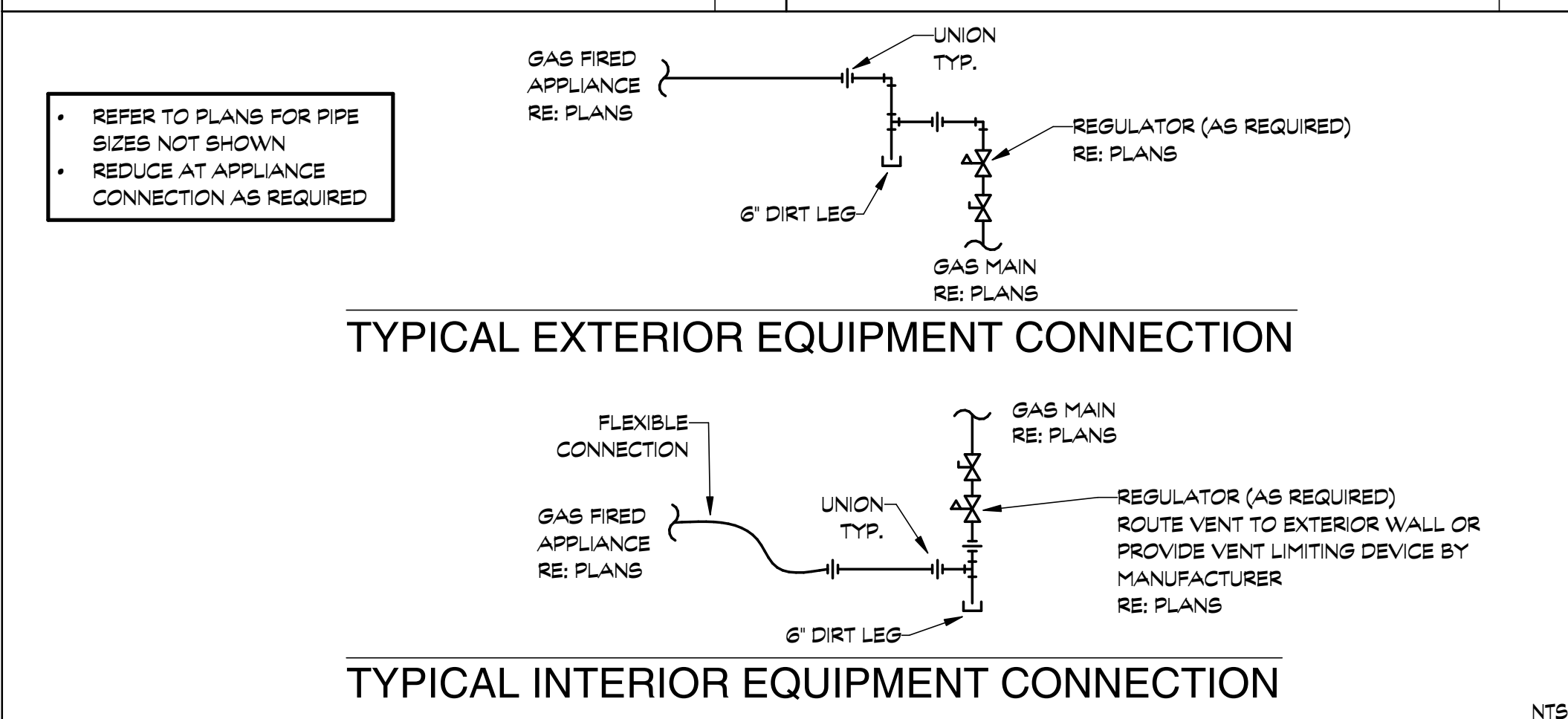
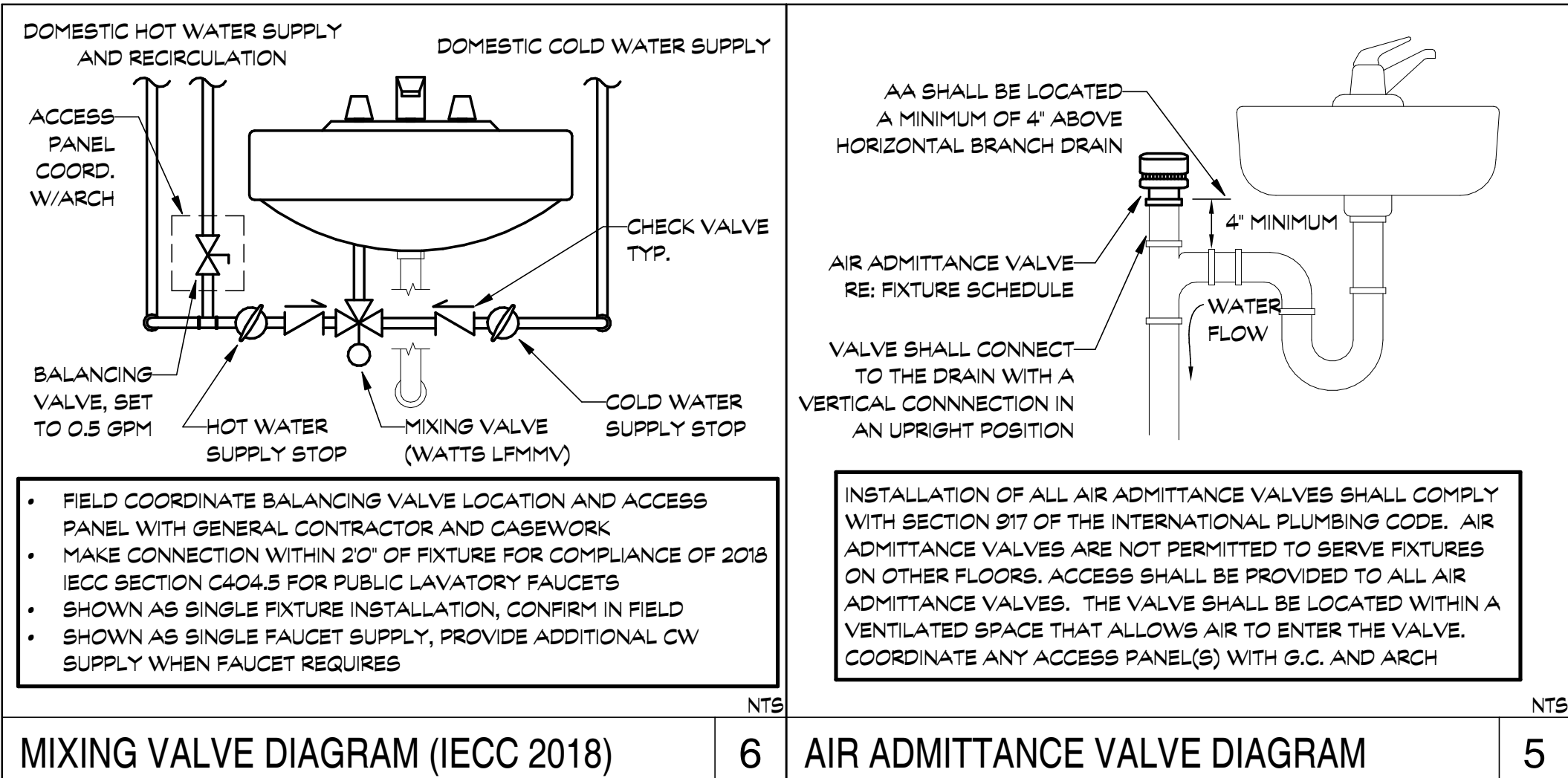
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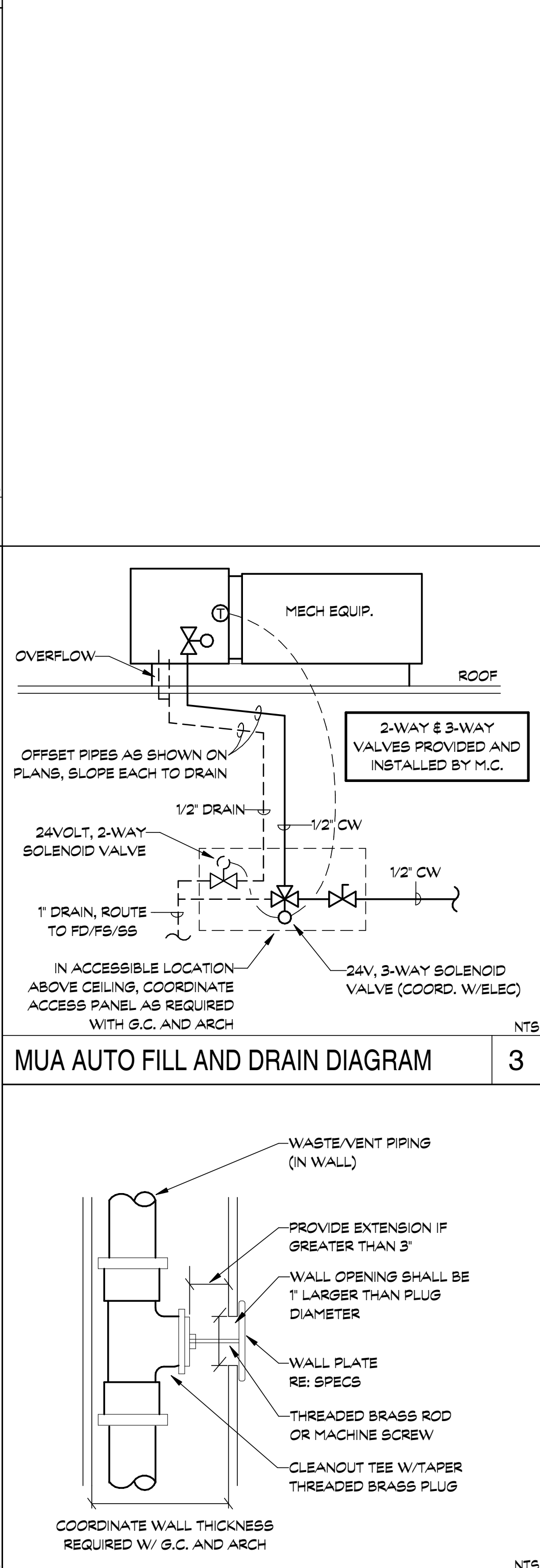
P1.2
 FIRST FLOOR PIPING PLAN

LEGEND

///	STORM - ABOVE FLOOR
///	STORM - BELOW FLOOR
---	SANITARY - ABOVE FLOOR
---	SANITARY - BELOW FLOOR
---	SANITARY TO GREASE
---○---	CIRCUIT VENT
---○---	COMBINATION WASTE AND VENT
---	WET VENT
---	SANITARY VENT
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
---	DOM. HOT WATER, RECIRCULATING
---	GAS
---	FIRE SPRINKLER
---	HOT WATER SUPPLY
---	HOT WATER RETURN
---	CHILLED WATER SUPPLY
---	CHILLED WATER RETURN
---	CONDENSATE
---	STEAM
○	PLUMBING POINT OF CONNECTION
○	RISER UP
○	RISER DOWN
○	BALL VALVE
○	BUTTERFLY VALVE
○	GATE VALVE
○	GAS COCK (GAS ONLY)
○	BALANCING COCK
○	CIRCUIT SETTER
○	CHECK VALVE
○	PRESSURE REDUCING VALVE
○	HOSE BIBB/BILL COCK
○	FLOOR DRAIN
○	FLOOR SINK
○	ROOF DRAIN
○	UNION
○	FLEXIBLE CONNECTOR
○	THERMOMETER
○	PRESSURE GAUGE
○	STRAINER
○	FIRE DEPARTMENT CONNECTION
○	WATER METER
○	GAS METER
○	MECHANICAL EQUIPMENT
○	DETAIL NOTE
○	KITCHEN / MEDICAL EQUIPMENT
○	COMPRESSED AIR
○	VACUUM
○	OXYGEN
○	NITROUS OXIDE
(E)	EXISTING TO REMAIN
(ER)	EXISTING TO BE REPLACED
(ED)	EXISTING TO BE DEMOLISHED
(NC)	NORMALLY CLOSED



GAS FIRED WATER HEATER DIAGRAM 2



WALL CLEANOUT DIAGRAM 1

PLUMBING FIXTURE SCHEDULE

KEY	DESCRIPTION	FITTINGS/ACCESSORIES	MANUFACTURER/CATALOG #
HWC	HANDICAP WATER CLOSET, TANK TYPE, FLOOR MOUNTED, SIPHON JET, ELONGATED BOWL, 1.28 GPF, 16.5" RIM HEIGHT, 12" ROUGH-IN	OPEN FRONT WHITE PLASTIC SEAT	TOTO CST144EL (ECO DRAKE), SC534
L1	WALL HUNG LAVATORY, ADA, VITREOUS CHINA, SINGLE CENTER HOLE, WHITE	ELECTRONIC INFRARED SENSOR METERING FAUCET, 0.5 GPM, HYDRO-SELF-POWERED W/BATTERY BACKUP, SINGLE SUPPLY, OFFSET TAILPIECE, INSULATED DRAIN PIPING, PERFORATED STRAINER	TOTO LT307 TOTO TEL105-D10E
SB	SERVICE SINK, FLOOR MOUNTED MOLDED STONE 24"X24"X10"	FAUCET WITH VAC.BREAKER, INTEGRAL CHECK VALVES AND SUPPLY STOPS, FLAT SST STRAINER	FIAT M8B2424 CHICAGO FAUCET 887-CCP
WCO	WALL CLEANOUT	STAINLESS STEEL ACCESS COVER (JOBAM 58800)	JOBAM 58810-19
FD	FLOOR DRAIN, ADJUSTABLE CAST IRON SUMP	ROUND NIKALOY STRAINER, INLINE TRAP SEAL	JOBAM 30000A SURE SEAL
FS	FLOOR SINK, PORCELAIN ENAMELLED, 12"X12"X6"	HALF GRATE, CHLORALLOY MEMBRANE (EXCEPT IN SLAB ON GRADE), INLINE TRAP SEAL	JOBAM 49340A SURE SEAL
TD	TRENCH DRAIN, PREFABRICATED POLYMER CONCRETE, METAL EDGE	LOAD CLASS C, SLOTTED STAINLESS STEEL GRATE (ACO 45SD)	ACO K 100S / 460
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER	STRAINER, SHUTOFF VALVES, AIR GAP	WATTS 009QTS, 809AG
AA	AIR ADMITTANCE VALVE	PROVIDE ACCESS PANEL AS REQUIRED, COORD. W/ ARCH	STUDOR VENT MIN-VENT
GWH	GAS FIRED WATER HEATER, POWER/DIRECT VENT 250MBH, 100 GAL CAPACITY, 291 GPH @ 100°F, FOAM INSULATION, 96% EFFICIENT	P&T RELIEF, ASME RATED	STATE SUPCO-250NE
ET	DIAPHRAGM EXPANSION TANK, 4.4 GALLONS	ASME RATED	AMTROL ST-12
CP	DOMESTIC RECIRC. PUMP, IN-LINE, BRONZE, 1/2" UNION CONNECTION, INTEGRAL CHECK VALVE, 88W, 120V/1, 2 GPM @ 13H	AUTO TIMER KIT	GRUNDFOS UP 15-16 BUCS

NOTES: PC IS RESPONSIBLE FOR ALL ANCILLARY EQUIPMENT AND FITTINGS (STOPS, FLEXIBLE TUBING, ESCUCHEONS, ETC.) NEEDED TO CONNECT FIXTURES

KITCHEN EQUIPMENT PLUMBING SCHEDULE

KEY	DESCRIPTION	CONNECTION		WASTE		GAS		COMMENTS
		CW	HW	IW	DW	SIZE	MBH	
1	WALK-IN COOLER EVAP COIL				1"			INSULATE WITH 1" ARMAFLEX, IW TO FLOOR DRAIN/SINK, RE: KITCHEN DRAWINGS
4	PREP SINK	1/2"	1/2"	2"				IW TO FLOOR SINK/DRAIN
5	3 COMP SINK	1/2"	1/2"	(3) 2"				CHECK VALVE ON HW (WATTS LFTR, P.C. TO CONFIRM MIN. 140°F WATER TO 3 COMP. SINK, IW TO FLOOR SINK/DRAIN
8	LOW TEMP DISH MACHINE		3/4"	2"				PROVIDE PRV, PRESS GAUGE, SHOCK ABSORB & VAC BREAKER (WATTS 289), IW TO FLOOR SINK/DRAIN, 416PH
9	BOILED DIBTABLE W/ PRE-RINSE	1/2"	1/2"					PROVIDE VACUUM BREAKER (WATTS 289) 6" ABOVE FLOOR RIM OF SINK, CHECK VALVE ON HW (WATTS LFTR)
10	DISPOSER	1/2"			1 1/2"			PROVIDE VACUUM BREAKER, MANUAL SHUTOFF VALVE & SOLENOID VALVE, INTERLOCK SOL. W/ DISPOSER
16	HAND SINK	1/2"	1/2"		1 1/2"			PROVIDE TEMPERING VALVE (WATTS USB-8) SET TO 110°F
18	ICE MACHINE	1/2"	(FLTRD)	1/2"				PROVIDE MANUAL SHUT-OFF VALVE AND BACKFLOW PREVENTER (WATTS SD-3), PC TO INTERPLUMB THROUGH WATER FILTER (BY OWNER), IW TO FLOOR SINK/DRAIN
23	CONVECTION OVEN				3/4"	100		QUICK CONNECT COUPLING
24	FRYER				3/4"	107		QUICK CONNECT COUPLING
25	BROILER				3/4"	28		QUICK CONNECT COUPLING
27	HOT PLATE				3/4"	198		QUICK CONNECT COUPLING
28	GRIDDLE				3/4"	40		QUICK CONNECT COUPLING
31	BROILER				3/4"	40		QUICK CONNECT COUPLING
B1	UNDERBAR ICE CHEST				1/2"			IW TO FLOOR SINK/DRAIN
B2	UNDERBAR DRAINBOARD				1"			IW TO FLOOR SINK/DRAIN
B3	HAND SINK	1/2"	1/2"		1 1/2"			PROVIDE TEMPERING VALVE (WATTS USB-8) SET TO 110°F
B4	DUMP SINK	1/2"	1/2"		1 1/2"			PROVIDE TEMPERING VALVE (WATTS USB-8) SET TO 110°F, IW TO FLOOR SINK
B5	BAR GLASSWASHER				1/2"	2"		PROVIDE SHOCK ABSORBER (WATTS SERIES 05), IW TO FLOOR SINK/DRAIN, 36 GPH

NOTES: *COORDINATE ALL ROUGH-IN HEIGHTS AND LOCATIONS WITH KITCHEN VENDOR AND/OR OWNER.
** PROVIDE GAS PRESSURE REGULATOR (MAXITROL RV) FOR 14" W.C. IF APPLIANCE IS NOT RATED FOR 14" W.C. MAXIMUM PRESSURE OR IF REQUIRED BY LOCAL UTILITY COMPANY

Hot Water Demand Tank Type Calculation

Plumbing Fixture	Water Usage (GPH)	# of fixtures	Max GPH per type of fixture
[#4] PREP SINK (18x24x14)	13	1	13
[#5] 3-COMP SINK (18x24x14)	39	1	39
[#8] DISHMACHINE	41	1	41
[#9] PRE RINSE SPRAYER	32	1	32
[#16] HAND SINK	5	3	15
[#B3] UNDERBAR HANDSINK	5	1	5
[#B4] DUMP SINK	5	1	5
[#B5] BAR GLASSWASHER	36	1	36
LAV	5	2	10
SERVICE SINK	7	1	7
Sub Total water GPH required by all fixtures			203
Altitude Adjusted Total GPH	4,984*	1,19936	244
Efficiency Adjusted BTU		96%	211,639
Make: Model, BTU/H		STATE: SUF-100-250NE, 250MBH	

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 36168
 09/22/2021
 PROFESSIONAL ENGINEER

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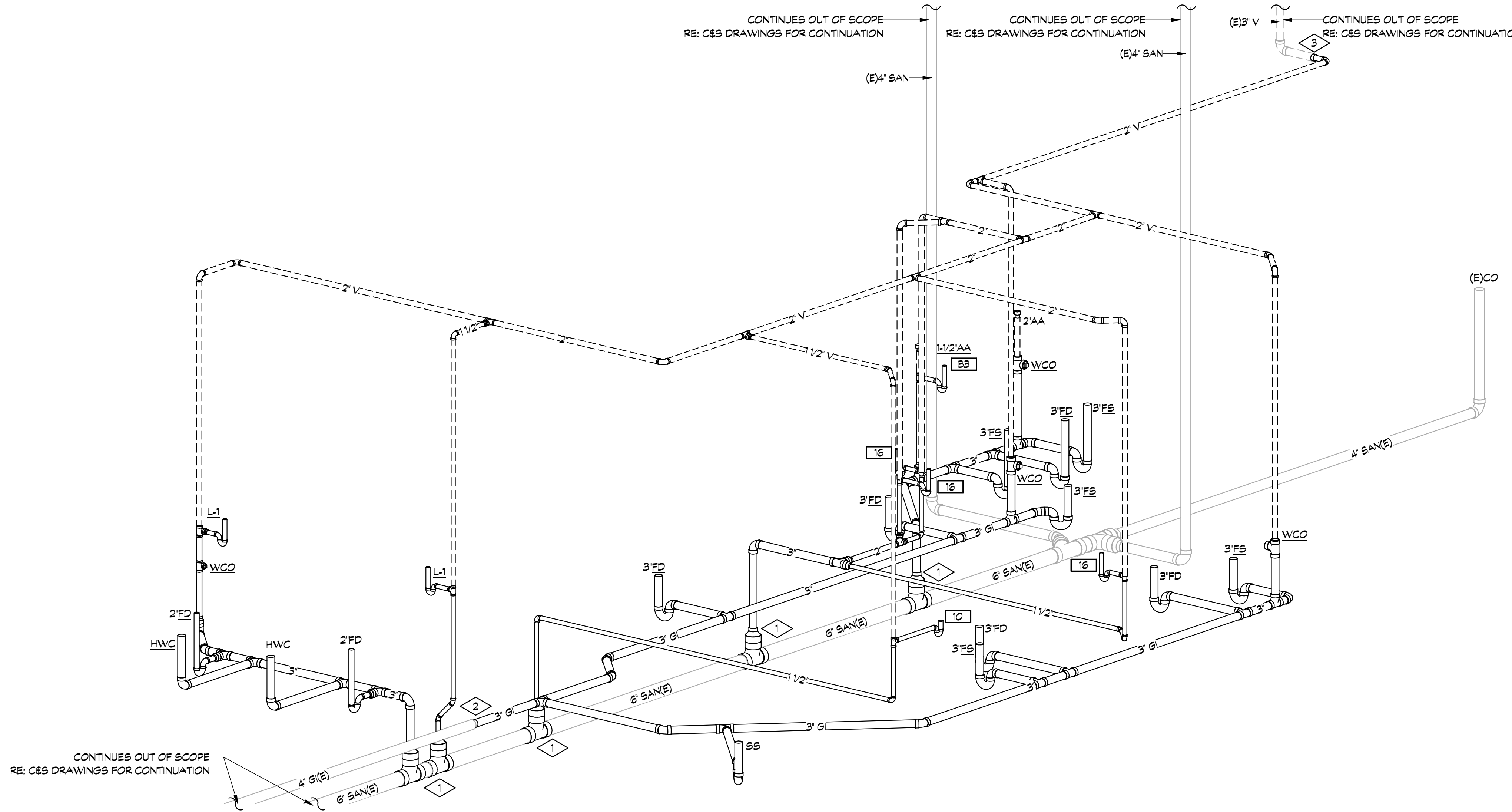
URBAN FIELDS
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 LONGMONT, CO.

SUBMISSIONS:

PLUMBING DETAILS & SCHEDULES
 P2.1

DETAIL NOTES THIS SHEET

- CONNECT TO EXISTING SANITARY LINE STUBBED OUT DURING SHELL. FIELD VERIFY EXACT LOCATION, PIPE ROUTING AND INVERT ELEVATION AT POINT OF CONNECTION PRIOR TO BEGINNING WORK
- CONNECT TO EXISTING GREASE WASTE LINE STUBBED OUT DURING SHELL. FIELD VERIFY EXACT LOCATION, PIPE ROUTING AND INVERT ELEVATION AT POINT OF CONNECTION PRIOR TO BEGINNING WORK
- CONNECT TO EXISTING SANITARY VENT STUBBED OUT DURING SHELL AND EXTEND AS SHOWN.



1 OVERALL DW&V ISOMETRIC

PLUMBING FIXTURE PIPE SIZES		
KEY	WASTE SIZE	VENT SIZE
H/WC	3"	2"
H/UR	2"	1 1/2"
L-1	2"	1 1/2"
LAV	2"	1 1/2"
2" FD/S	2"	1 1/2"
3" FD/S	3"	2"
4" FD/S	4"	2"
TUB	2"	1 1/2"
SH	2"	1 1/2"
SS	3"	2"
WU	2"	1 1/2"
KS	2"	1 1/2"

ALL PIPE SIZES AS INDICATED EXCEPT WHERE NOTED.
FOR BACK TO BACK CONDITIONS, LARGEST DRAIN & VENT SIZE APPLIES.

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URBAN FIELDS
 BLDG #2 S. MAIN STATION
 LONGMONT, CO.

SUBMISSIONS:

P2.2
 PLUMBING ISOMETRIC

DIVISION 21 - FIRE SUPPRESSION

SECTION 21 00 00 - COMMON WORK RESULTS FOR FIRE SUPPRESSION

1.01 WORK INCLUDED

A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items omitted but necessary to construct and install the complete systems described by the Contract Documents and specified below. "Contractor" refers to the Fire Sprinkler Contractor. The general conditions of the specifications apply and are included in this part of this section.

1. Fire sprinkler systems

1.02 SEE SECTION 22 05 00 FOR BASIC MATERIALS AND METHODS

SECTION 21 13 00 - FIRE SUPPRESSION SPRINKLER SYSTEM

1.01 WORK INCLUDED

A. Provide complete automatic fire protection systems, including but not limited to inside piping, sprinkler heads, valves, hangers and supports, sleeves, fire department connections and accessories, fire hose cabinets, valves. Entire installation shall be as required by the local authorities. Consult with local authorities to determine all local requirements before submitting a bid.

1.02 QUALITY ASSURANCE

A. Sprinkler equipment and installation to be approved by local fire authority.

1.03 SUBMITTALS

A. Submit shop drawings showing proposed layout of Fire Protection System, showing actual equipment to be used, complete with such dimensions as are required to accurately install the system, drawn to a minimum scale of 1/8" equals 1'0". Drawings shall be approved by Underwriters and local authority before submission to Architect and Engineer (four copies).

2.01 ACCEPTABLE MANUFACTURERS

A. Equipment shall be by Grinnell, Viking, Star, Reliable, Globe, Crocker-Standards, Central, Potter-Roemer, or approved substitute.

2.02 INTERIOR FIRE SERVICE PLUMBING

A. Pipe shall be schedule 40, black seamless steel, ASTM A120, ASTM 53. Pipe 1-1/2" or larger may be schedule 10, grooved black steel pipe. Fittings may be style 74 or 75 "Victaulic" mechanical coupling system for 300 PSI working pressure.

2.03 FIRE DEPARTMENT SIAMESE CONNECTION

A. Provide a cast brass flush wall mounted fire department connection, adequately sized for the application with threads, fittings, etc acceptable to the local fire department. Connection shall include drop clapper, pin lug hose thread swivels, pin lug plugs and chain. The connection shall be labelled as directed by the local Fire Department. All components shall be chrome-plated.

2.04 WATER FLOW ALARMS

A. Water flow indicator shall be electric, vane-type detector with two sets of normally open contacts and a time retard to prevent false alarms.

2.05 AUTOMATIC SPRINKLERS

A. Sprinklers shall have temperature ratings as required by NFPA Standard No. 13 for the sprinkler location. Verify exact head types in finished areas with Architect. Provide specific head types as follows. The following are catalog numbers of Grinnell.

2.06 TAMPER SWITCH

A. Provide an electric supervisory monitor switch at the required valves. Grinnell Model F640 or as required.

2.07 HORN/LIGHT

A. Provide an electric combination horn/light, suitable for exterior application, rated for the appropriate voltage.

2.08 PIPING INSTALLATION

A. All piping shall be concealed wherever possible. Exceptions must be clearly marked on shop drawings and shall not be installed until approved by Architect.

2.09 VALVE IDENTIFICATION

A. Drain valves, test valves, and control valves shall be identified with a stamped metal tag indicating their use.

2.10 TESTING

A. A 1" inspector's test connection shall be installed at the farthest and most remote location in the system with discharge running to the exterior of the building.

2.11 FLUSHING

A. Flush piping system thoroughly with clear water to placing automatic sprinkler system in operation.

2.12 SPRINKLER CABINET

A. Provide a reserve sprinkler cabinet with six spare sprinkler heads of each type used. Cabinet shall be equipped with two special sprinkler wrenches. Cabinet shall be a labeled, metal, wall-mounted type with red enamel finish and a rigid hinged and locked door. Two keys shall be provided.

DIVISION 22 - PLUMBING

SECTION 22 05 00 - COMMON WORK RESULTS FOR PLUMBING

1.01 WORK INCLUDED

A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items omitted but necessary to construct and install the complete systems described by the Contract Documents and specified below. "Contractor" refers to the Mechanical Contractor. The general conditions of the specifications apply and are included in this part of this section.

- 1. Gas piping system
- 2. Domestic hot and cold water systems
- 3. Interior sanitary sewer system
- 4. Interior storm sewer system and discharge

1.02 CODES AND REGULATIONS

A. Comply with state and local codes, and utility company regulations. Final interpretations will be made by the local inspection authority. The Contractor to verify the governance of the following Codes, including any local amendments and supplementary codes such as the Codes of the National Fire Protection Association:

- 2. Plumbing Code: 2018 International Plumbing Code
- 3. Mechanical Code:2018 International Mechanical Code
- 4. Fire Code: 2018 International Fire Code
- 5. Gas Code: 2018 International Fuel Gas Code
- 6. Energy Code: 2018 International Energy Conservation Code
- 7. Electrical Code: 2020 National Electrical Code

1.03 EQUIPMENT AND MATERIALS STANDARDS

A. Equipment and materials shall be new, UL-listed for the use intended, and free from damage or defect. They shall comply with the latest industry standards.

1.04 CONTRACT DRAWINGS

A. Illustrate the general design and extent of performance required. All dimensions and locations shall be taken from the Architectural drawings. Consult with Architectural plans and locate all ceiling equipment where indicated on reflected ceiling plans

1.05 SHOP DRAWINGS

A. Submit products data and/or shop drawings as required by the Architect for the following:

- 1. Insulation
- 2. Valves
- 3. Plumbing fixtures and appurtenances.
- 4. Pumps

1.06 WARRANTY

A. The Contractor shall be responsible for the successful operation of mechanical systems, equipment, and materials installed under this Contract for a period of one year from the date of final acceptance. Defective equipment or materials shall be repaired or replaced at no expense to the Owner. Provide four complete service and maintenance calls spaced at equal intervals during the warranty period.

1.07 PRODUCT HANDLING AND CLEAN UP

A. Equipment shall be left clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.

1.08 CUTTING AND REPAIRING

A. The contractor shall be responsible for all cutting, drilling, welding, and repair required for his portion of the work. Coordinate with the Architect. The General Conditions take precedence.

1.09 OPERATING AND MAINTENANCE DATA

A. Provide the Owner with operating and maintenance instructions (four copies) required for operation of all mechanical systems. Bind the written instructions in a notebook. The General Conditions take precedence. The manuals shall include the following items:

- 1. Operating manual and spare parts list for each piece of equipment.
- 2. Preventive maintenance schedule for lubricating and checking each piece of equipment.
- 3. Instructions on who to call for service during the warranty period.

1.10 PERMITS

A. The contractor shall pay for all fees, taxes, secure permits, licenses, and inspections required for the project.

1.11 TEMPORARY SERVICES

A. Provide temporary water service for construction, as required by the General Contractor.

1.12 COORDINATION

A. Coordinate outlet device and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and to provide functional use of all equipment. Verify electrical power characteristics before ordering equipment.

B. Electrical work performed by this contractor will conform to the standards of Division 26-28. Mechanical equipment motors and controls shall be furnished, set in place, and wired according with the following schedule unless otherwise noted or specified. MC = Division 21-23 EC = Division 26-28

Item	Furn	Set	Power	Control
	By	By	Wiring	Wiring
Combination starters	MC	EC	EC	MC
Equipment motors	MC	MC	EC	--
Motor starters & O.L. relays	MC	EC	EC	MC
Disconnect switches	EC	EC	EC	MC
Thermal overload heaters (1)	EC	EC	EC	--
Variable Speed Drives	MC	EC	EC	MC
Control relays/transformers	MC	MC	EC	MC
Temperature control panels	MC	MC	EC	MC
Temp. Controls conduit/wiring	MC	MC	--	MC
Actuator and solenoid wiring	MC	MC	--	MC
Pushbuttons & pilot lights	MC	MC	--	MC
Room thermostats	MC	MC	EC	MC
Thermostat: line voltage	EC	EC	EC	--

C. The general guideline for the division between control (by MC) wiring and power wiring (by EC) is that power wiring carries the current which energizes a motor, control wiring does not. Control wiring may be 120V, which would be the responsibility of the MC. Control motors are wired by the MC.

D. Examine the site and become aware of existing conditions, utilities, and other issues affecting the satisfactory completion of the project.

1.13 DELIVERY, STORAGE, HANDLING

A. Provide necessary hauling and hoisting equipment. Protect the materials of this Division before, during, and after installation.

1.14 AS-BUILT DRAWINGS

A. Keep a current set of "as-built" drawings on site. Upon completion of the work, furnish engineer with a reproducible prints showing the "as-built" installation.

1.15 PROJECT/SITE CONDITIONS

A. Visit the site to become familiar with location and the various conditions affecting the work, including existing utilities.

1.16 PLAN VERIFICATION

A. After completion of the bidding and selection process, prior to awarding the contract, the contractor must review and verify the contract documents in their entirety, including those of other trades. At this time, discrepancies, conflicts, omissions, etc in the contract documents must be documented. Alterations to the contract will be made at that time to include such items, as well other modifications which might be made by the Owner. After award of the contract, change orders caused by discrepancies, conflicts, omissions in the contract documents will not be allowed.

2.01 EXPANSION JOINTS, GUIDES, AND ANCHORS

A. Provide expansion joints or loops, guides, and anchors in piping to allow for expansion and contractions. Expansion joints shall be bellows type.

2.02 VALVES

A. Gate valves 2" and smaller shall be cast bronze, rising stem, solid disc, 200 PSI WOG

2.03 RELIEF VALVES

A. Relief valves shall be all-bronze A.S.M.E. rated valves with external test levers, sized in accordance with the instructions of the appropriate manufacturer. Pipe discharge outside or to drain where possible and per code. Valves shall be manufactured by Watts or equivalent.

2.04 FLEXIBLE CONNECTORS

A. Connectors in piping shall be made with molded teflon or neoprene and nylon bellows, metal reinforcing rings, flanged ends and control rods, suitable for 40F to 200F temperature range and 125 lbs. pressure. Alternative shall be stainless steel inner hose with braided exterior sleeve for steel pipe or bronze inner hose with braided exterior sleeve for copper piping. Metra-flex Company, or equivalent.

2.05 SPECIALTIES

A. P/T Plugs: 1/4" diameter, brass with Norel core, Sisco or equivalent.

2.06 ELECTRICAL

A. Lugs: Lugs for wiring connections shall be rated for copper and aluminum, and shall have a minimum rating of 75C. B. Electric motors shall be rated for the appropriate application: wet location (TEFC), submersible; explosion proof, VFD's, etc.

2.07 ACCESS PANELS

A. The Mechanical Contractor shall furnish and install access panels where required for access to equipment. Access panels shall be adequately sized, of a type approved by the Architect and shall be fire or smoke-rated as required.

2.08 EXCAVATION AND BACKFILLING

A. Provide excavating and backfilling for Mechanical Work. Backfill in 12" layers, mechanically tamp to 95% proctor standards. Protect according to OSHA standards. The General Conditions take precedence. Verify the location of underground utilities before excavation; the contractor is responsible for any damage to underground utilities. Restore existing paving, curbs, sod, bushes, etc to match surroundings.

2.09 START-UP PROCEDURES

A. Follow manufacturer's recommended procedures in starting up the equipment; damage caused during start-up shall be replaced at no expense to the owner.

2.10 PIPING INSTALLATION

A. Install piping plumb and straight, parallel with walls and partitions. Conceal piping within structure whenever practical. Provide drain valves at all low points, vents at all high points, to allow complete drainage.

C. Provide unions or flanges in piping connections to each valve, device, or item of equipment. Install each union or flange to permit the removal of parts and equipment for inspection or cleaning, without disconnecting any piping, except unions or flanges. Provide dielectric unions at locations with dissimilar materials.

2.11 HANGERS AND SUPPORTS

A. Support piping and equipment from the structure to prevent sagging, pocketing, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be steel, except copper hangers will be used with copper piping. Hangers supporting vibrating equipment shall be provided with spring isolators. Chain, perforated iron or wire hangers are not permitted. Hangers will be of a type acceptable to the Engineer, and shall have a capacity and spacing as required by code.

2.12 SLEEVES AND PLATES

A. Provide sleeves and inserts for all mechanical piping. The contractor shall be responsible for the cost of cutting and patching required for piping where sleeves and inserts were not installed or where incorrectly located. Sheetrock joint compound may be used to seal openings in non-rated wall/insulation to be continuous through walls.

2.13 PIPING TESTING

A. All piping systems shall be tested and witnessed by the Owner prior to concealment. Protect equipment and fixtures or equipment, isolating them during the test. DWV system shall be sealed and hold water without leaks for 24 hours. Domestic water and hydronic piping shall be air tested at 150 PSIG; natural gas piping shall be air tested at 30 PSIG. Air tests shall be held for one hour without loss of pressure.

2.14 CLEANING AND STERILIZATION

A. After testing, water piping systems shall be filled, operated for a sufficient length of time to completely remove all foreign material, and flushed.

2.15 FLEXIBLE PIPE CONNECTIONS

A. Provide flexible pipe connection suitable to connect to adjoining piping as specified for pipe joints. Use sized pipe units. Install flexible pipe connectors on pipes connected to equipment supported by vibration isolation.

2.16 PIPE IDENTIFICATION

A. After identification of the piping or insulation, paint stenciled descriptive abbreviations, including directional arrows, on piping at equipment and approximately every 25'.

END OF SECTION 22 05 00

SECTION 22 07 00 - PLUMBING INSULATION

1.01 QUALITY ASSURANCE

A. All insulation shall have a composite rating (insulation, jacket and adhesives) not exceeding flame spread 25 and smoke developed 50.

2.01 INSULATION FOR PIPING ABOVE GRADE

A. Insulation shall be closed-cell, elastomeric pipe insulation having a conductivity of 0.27 at 75 °F mean, with thicknesses as follows:

Pipe Sizes	<1"	1" to 1 1/2"	>1 1/2"
Dom. cold piping	1/2"	1/2"	1"
Roof drain sumps, & horiz. leaders	1/2"	1/2"	1"
Dom. hot & recirc. Piping	1-1/2"	1-1/2"	1-1/2"

2.02 INSULATION FOR PIPING BELOW GRADE

A. Insulation shall be closed-cell, elastomeric pipe insulation having a conductivity of 0.27 at 75F mean, with thicknesses as follows:

Pipe Sizes	<1"	1" to 1 1/2"	>1 1/2"
Dom. cold piping	1/2"	1/2"	1"
Dom. hot & recirc. Piping	1"	1"	1"

2.03 PIPE/ELECTROMERIC

A. Insulation shall be Armacell "Armaflex" or equivalent by Johns-Mansville, Owens-Corning.

C. Exterior piping insulation will be painted with a white solvent based alkyl finish (Armaflex AB or equivalent), including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions. Where exposed to physical damage, exterior piping insulation will be covered with aluminum jacket, including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions.

D. All interior underground water (domestic and hydronic) piping shall be insulated with 1" Armaflex, except where noted.

A. Insulation shall be closed-cell, elastomeric pipe insulation having a conductivity of 0.27 at 75F mean, with thicknesses as follows:

Pipe Sizes	<1"	1" to 1 1/2"	>1 1/2"
Dom. cold piping	1/2"	1/2"	1"
Dom. hot & recirc. Piping	1"	1"	1"

SECTION 22 10 00 - PLUMBING

1.01 WATER SERVICE

A. Consult with local authorities to provide water service. Provide meter pit, meter yokes, valves, RPZ valves, PRV valves, etc. for complete installation. Connect to a point 5' from building. Coordinate exact point of connection with site contractor before bidding.

1.02 SANITARY SEWER CONNECTION

A. Consult with local authorities and connect to sewer main as required. Connect to a point 5' from building. Coordinate exact point of connection with site contractor before bidding.

2.01 DOMESTIC WATER SYSTEM PIPING

A. Domestic cold, hot, and recirculating hot water piping may be either copper, or PEX, as noted below:

- 1. Copper piping:
 - a. Above grade, piping shall be Type L, hard-drawn copper tubing with wrought copper fittings. Solder shall be lead-free.
 - b. Below grade, piping shall be Type K, soft-drawn copper tubing with fittings only where specifically allowed by the architect. Where required, the fittings will be wrought copper. Solder shall be 95/5 tin/antimony, except underground, where it will be silver solder.
- 2. PEX Tubing:
 - a. Tubing shall be cross-linked polyethylene using the Engel method of cross-linking. The tubing shall be rated for 80PSI at 200F, and shall be manufactured according to ASTM F 876 and ASTM F 877.
 - b. Fittings shall be APR(brass) "Pro-pek" style or equivalent. Manifolds may be copper, brass, or plastic, with balancing controls.
 - c. Stub outs to be copper with brass shutoff valves. Stub outs to be properly secured to wall.
 - d. Tubing in return air plenums, or other areas designed as air handling plenums, shall be installed to a flame rating of 25/50 according to ASTM E84, whether by spacing, insulation or other approved method.
 - e. Tubing shall be as manufactured by Wirsbo or equivalent.

2.02 SOIL, WASTE, AND STORM PIPING

A. Soil, waste, and vent piping, and storm piping shall be schedule 40 solid core PVC conforming to ASTM D2665 and ASTM D1785 with solvent joints conforming to ASTM D2855, except as noted below. PVC buried below slab shall be installed in conformance with ASTM D2321:

- 1. Hubless(No Hub), cast iron soil pipe conforming to CISPI 301 with stainless steel no-hub couplings conforming to CISPI 310 shall be used in return air plenums and other areas designed as air handling plenums, or where specifically required by local code. All cast iron soil pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute and be listed by the NSF International.
- B. Soil, waste, and storm piping below grade 5' beyond the building may be PVC SDR 35, installed in conformance with ASTM 3034 and utilizing push-on joints.
- C. Storm water piping shall be same as soil and waste piping when concealed and galvanized schedule 40 steel pipe when exposed to physical damage. Fittings shall be cast iron, drainage type.

2.03 PLUMBING FIXTURES AND TRIM

A. Provide plumbing fixtures as specified on the plans. Provide carriers, trim, bolts, caps, etc according to the manufacturer's instructions and as required for a complete installation. All fittings and appurtenances (p-traps, connections, etc) shall be brass; chrome plated brass where visible.

B. Provide carriers for wall hung or mounted fixtures such as water closets, lavatories, urinals, sinks, etc. The carriers shall

be designed to fit in the wall structure available, and shall transmit the load to the floor. Fixtures will not be supported by the wall structure unless specifically indicated.

2.04 GAS PIPING

A. Above grade in accessible locations, gas piping shall be schedule 40, black iron pipe with threaded fittings. Fittings shall be made of malleable iron. Gas piping run in return plenums, where allowed by local code, shall have welded joints.

2.05 GAS WATER HEATER(SEALED COMBUSTION)

A. Water heater shall be as specified on the plans. Heaters shall be approved and listed by the American Gas Association as self-contained, vented water heaters. The tank shall be heavy-gauge, welded steel, glass-lined, foam insulated to conform to ASHRAE 90.1-1992. The heaters shall be rated for 150 PSI and shall have a five-year warranty. The power burner shall be sealed combustion, submerged with spiral internal flue. The controls shall be electronic microprocessor based with digital display and shall include high-limit control and safety shut off. The heater shall include two (2) magnesium anodes and a pressure and temperature relief valve. The heater will be furnished with integral heat traps. Where required by local code, provide ASME certification.

2.06 DOMESTIC RECIRCULATING PUMP

A. Pump shall be 2800 rpm, in-line, centrifugal oil-lubricated, sleeve-bearing pump with flanged piping connections, bronze body, plastic impeller, and having mechanical seals. Motors shall be non-overloading, open drip-proof type.

3.01 DOMESTIC WATER SYSTEM

A. Provide drip cocks so that the entire system may be drained. Provide manual air vents at high points in the system where air may be trapped. Provide stops for all fixtures and appliances. Provide a full size ball valve on each branch serving a hose bib.

3.02 SOIL, WASTE, AND STORM WATER PIPING

A. Lay piping true to line and grade so that sewer will have smooth and uniform invert throughout its length. Verify elevations of existing sewer before starting work.

3.03 WATER HEATER INSTALLATION

A. Install water heaters per manufacturer's instructions. Provide 24 gauge, galvanized steel drain pan, piped with minimum 3/4" drain, piped to an approved receptor with indirect waste connection per code.

3.04 PLUMBING FIXTURES AND TRIM

A. Furnish and install a vacuum breaker at each hot and cold water service outlet to which a hose can be attached, including janitor's faucets.

B. Provide chrome-plated rigid or flexible supplies to fixtures with stops, reducers, and escutcheons. Insulate stops and supplies at handicapped sinks with Truebro lav guard or equivalent. Bag type covers are not allowed.

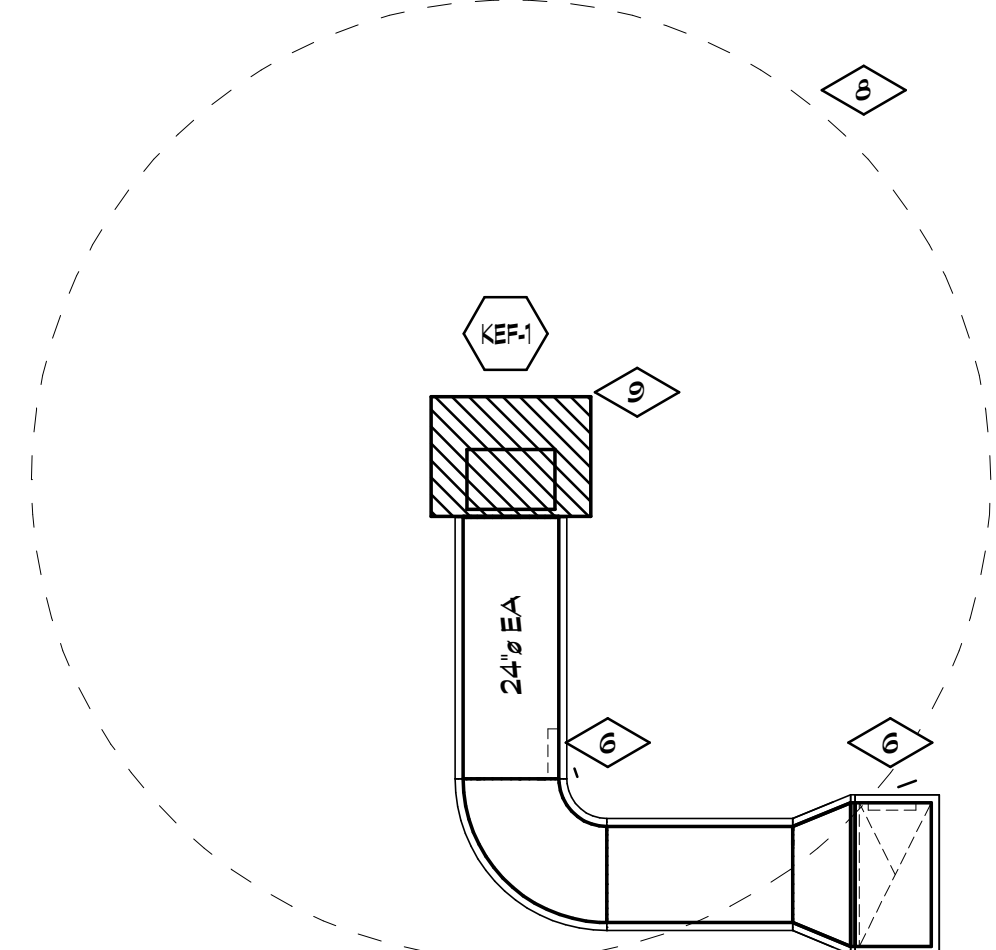
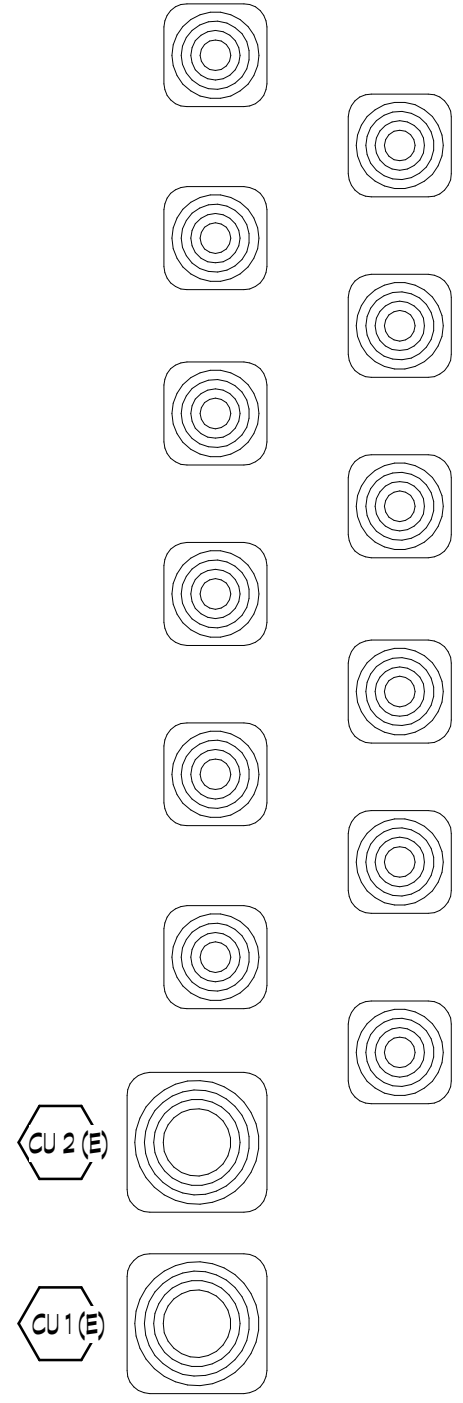
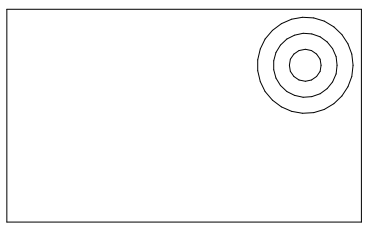
C. Provide chrome plated brass P-traps with slip fittings for all exposed drains. Insulate P-traps at handicapped sinks with Truebro lav guard or equivalent. Bag type covers are not allowed.

D. Flush valve handles, and flush tank handles, on handicapped water closets shall be located on the wide side of the stall for convenient access and as required by code.

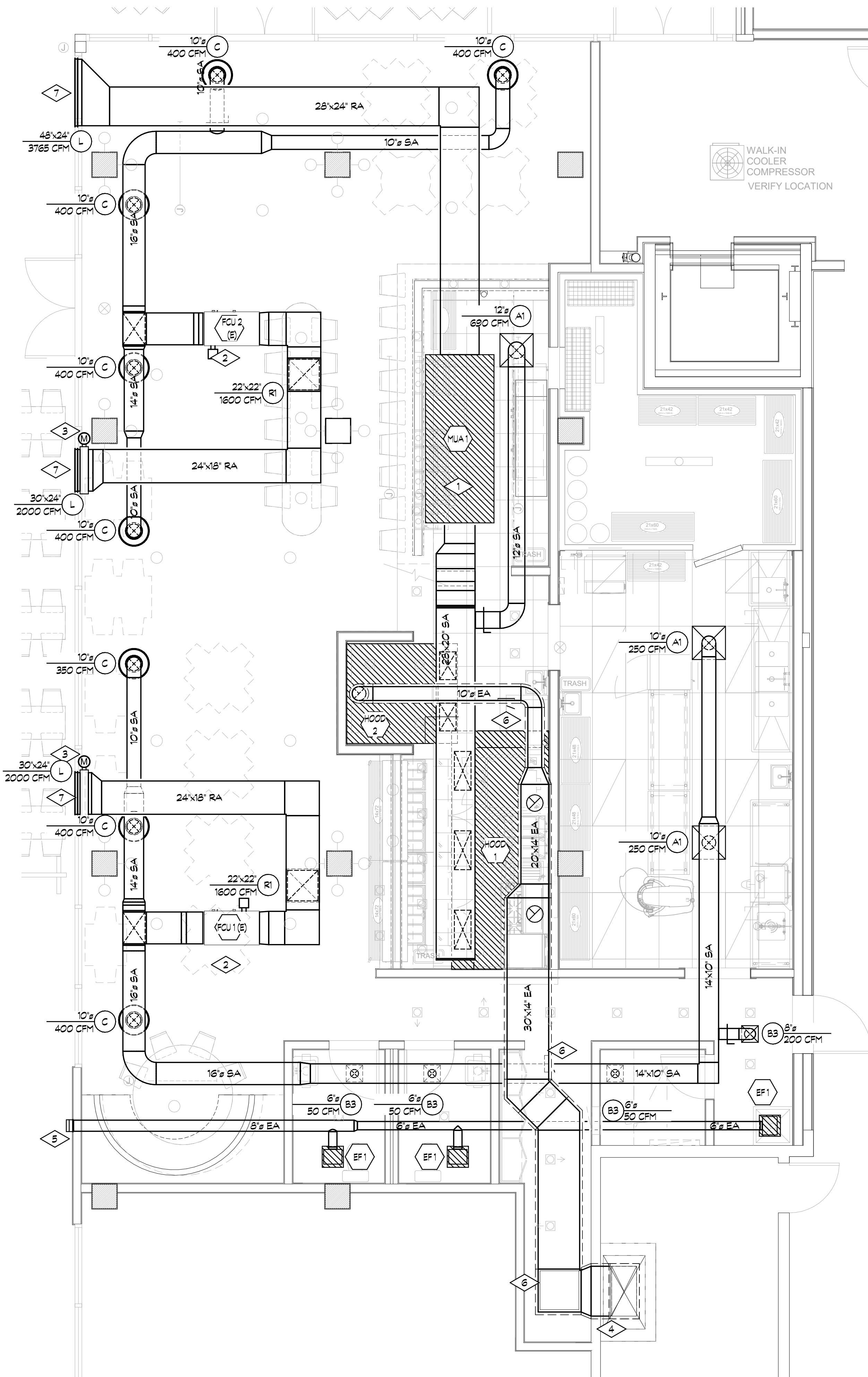
E. Provide a flexible elastomeric sheet for flashing around all shower drains, roof drains, floor drains, floor sinks, etc except for slabs on grade. The membrane shall be a minimum 0.40 inch thick, made of chlorinated polyethylene, installed per manufacturer's instructions. The flashing membrane for roof drains, floor drains, etc shall be a minimum of 2x2". The flashing membrane for shower pans, service sink pans, etc shall have "pigs ear" folds in the corners, extending the membrane up at least 3" above the drain. The membranes shall be manufactured by Chloralloy or equivalent.

F. Mount fixtures the following heights above finished floor:

- 1. Water closet : 14"-15" to top of bowl rim; Handicapped, 18" to top of bowl rim.
- 2. Urinal : 24" to top of bowl rim; Handicapped, 17" to top of bowl rim.
- 3. Lavatory : 31" to



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



FIRST FLOOR HVAC PLAN
1/4" = 1'-0"

GENERAL NOTES

- A. FIELD VERIFY EXISTING SIZE AND LOCATION OF DUCTS & TERMINAL BOXES PRIOR TO BEGINNING WORK.
- B. REMOVE EXISTING LOW PRESSURE DUCTWORK/ AIR TERMINAL DEVICES THROUGHOUT SPACE EXCEPT WHERE SPECIFICALLY SHOWN.
- C. INSPECT EXISTING DUCT MAINS & SEAL ANY AUDIBLE AIR LEAKS AS REQUIRED TO ACHIEVE AIR FLOW WITHIN 5% OF NOTED TOTALS. REMOVE ANY DUCT WRAP ON EXPOSED DUCTWORK.
- D. FLEX DUCT MAY NOT BE USED IN EXPOSED LOCATIONS. WHERE CONCEALED, FLEX DUCT RUNS NO LONGER THAN 2', REFER TO SPECIFICATIONS.
- E. GRILLES, REGISTERS & DIFFUSERS & EXPOSED DUCTWORK TO MATCH ADJACENT CEILING/STRUCTURE COLOR. WHERE CEILING IS LIGHT COLOR, MAINTAIN WHITE GRDS. WHERE CEILING/STRUCTURE IS METAL FINISH OR DARK, PAINT GRDS TO MATCH. REFER TO ARCH PLANS FOR FINISHES.
- F. FIELD VERIFY EXISTING DUCT MAINS ARE TIGHT TO STRUCTURE. NOTIFY ENGINEER OF ANY DUCTS NOT TIGHT TO STRUCTURE.
- G. MECHANICAL SYSTEM IS LESS THAN 480,000 BTU/H COOLING AND 600,000 BTU/H HEATING AND IS THEREFORE NOT REQUIRED TO BE COMMISSIONED PER IECC C408.2.

DETAIL NOTES THIS SHEET

1. MOUNT MUA.1 FROM STRUCTURE WITHIN SPACE, COORDINATE HANGING REQUIREMENTS WITH CAPTIVE AIR. DUCT 100% OUTDOOR AIR FROM STOREFRONT.
2. EXISTING FAN COIL UNIT FCU.1 OR FCU.2 TO REMAIN.
3. PROVIDE MOTORIZED DAMPER AT OUTDOOR AIR LOUVER TO ALLOW 100% OUTDOOR AIR AND HAVE NORMAL OPERATION FOR 800 CFM OUTDOOR AIR (20% OF FCU.1 & FCU.2 PER AIR BALANCE).
4. FIRE SPRINKLER CONTRACTOR TO RELOCATE FIRE SPRINKLER LINE LOCATED IN FRONT OF GREASE DUCT.
5. PROVIDE WEATHER CAP AT EXHAUST TERMINATION THROUGH WALL. ENSURE 3' CLEARANCE FROM BUILDING OPENINGS AND 10' CLEARANCE FROM MECHANICAL AIR INTAKES.
6. PROVIDE GREASE CLEANOUT EVERY 20' OF RUN AND AT ANY CHANGE OF DIRECTION. 16 GA WELDED STEEL EXHAUST DUCTWORK FROM HOODS TO ROOF IN SHAFT, SIZES AS SHOWN ON PLANS. SLOPE DUCTWORK TO HOOD AT 1/4" PER 12". WRAP DUCTWORK W/ 2 LAYERS OF 3M FIREMASTER OR EQUIV. (ASTM E814) WITHIN BUILDING PER DETAIL ON SHEET M2.1. VERIFY EXACT CLEANOUT LOCATIONS PRIOR TO CONSTRUCTION. TRANSITION TO HOOD & EXHAUST FAN AS REQD.
7. USE EXISTING PENETRATION AND LOUVER IF POSSIBLE FOR OUTDOOR AIR INTAKE LOCATIONS.
8. MAINTAIN 10' CLEARANCE BETWEEN KITCHEN EXHAUST AND ALL AIR INTAKES.
9. MOUNT NEW KEF.1 ON EXISTING CONCRETE PAD PER DETAIL ON M3.1. ROUTE AND CONNECT 24" GREASE EXHAUST DUCT TO EXISTING GREASE CHASE.



FIELD VERIFICATION: VERIFY ALL FIELD DIMENSIONS AND CONDITIONS WITH THE SITE AND REPORT ANY DISCREPANCIES, ERRORS OR OMISSIONS TO TRAPP ARCHITECTURE PRIOR TO CONSTRUCTION OR BEFORE THE COMMENCEMENT OF CONSTRUCTION. THE DRAWINGS IS BASED ON EXISTING DRAWINGS AND MAY NOT BE CURRENT TO THE EXISTING CONDITIONS OF THE SITE.
TRAPP ARCHITECTURE SHALL RETAIN ALL STATUTORY, COMMON LAW AND OTHER RESERVED RIGHTS. THESE DRAWINGS AND RELATED DOCUMENTS SHALL NOT BE DUPLICATED, DISCLOSED OR OTHERWISE REPRODUCED WITHOUT WRITTEN CONSENT OF TRAPP ARCHITECTURE.

URBAN FIELDS
BLDG #2 S. MAIN STATION
LONGMONT, CO.

SUBMISSIONS:

LEGEND

	DUCT (INSIDE DIM. SIDE SHOWN, INSIDE DIM. SIDE NOT SHOWN)
	SUPPLY DUCT (SECTION)
	RETURN DUCT (SECTION)
	EXHAUST DUCT (SECTION)
	ROUND DUCT, RIGID
	FLEXIBLE DUCT
	FLEXIBLE CONNECTOR
	TURNING VANES
	SUPPLY DIFFUSER (ARROWS INDICATE DISTRIBUTION)
	RETURN REGISTER / GRILLE
	MECHANICAL POINT OF CONNECTION
	FIRE DAMPER
	SMOKE AND FIRE DAMPER
	THERMOSTAT
	MANUAL BALANCING DAMPER
	MOTORIZED BALANCING DAMPER
	HOT WATER SUPPLY
	HOT WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSATE
	STEAM
	GRILLE / REGISTER / DIFFUSER
	MECHANICAL EQUIPMENT
	DETAIL NOTE
	KITCHEN / MEDICAL EQUIPMENT
	SUPPLY AIR
	OUTSIDE AIR
	MIXED AIR
	RETURN AIR
	EXHAUST AIR
	ACCESS DOOR
	OPPOSED BLADE DAMPER
	ROUTE IN JOIST SPACE
	EXISTING TO REMAIN
	EXISTING TO BE REPLACED
	EXISTING TO BE DEMOLISHED
	DUCT DETECTOR
	REMOTE INDICATING LIGHT

KEY	DESCRIPTION	CELL'S	ACCESSORIES	MANUFACTURER/CAT #
A1	SQUARE CEILING DIFFUSER: 2'X2' FULLY LOUVERED FACE, 4 WAY, ROUND NECK, WHITE	GRD	OB DAMPER	TITUS TMS/3
B3	SQUARE CEILING DIFFUSER: 1'X1' LOUVERED FACE, ROUND NECK, DIRECTIONS OF THROW PER PLAN, WHITE	GYP/GRD		TITUS TDC1
C	ROUND CEILING DIFFUSER LOUVERED FACE, ROUND NECK, ADJUSTABLE	GYP/GRD	OB DAMPER	TITUS TMR
L	WALL LOUVER, HEAVY GAUGE ALUMINUM, 37.5 DEG DRAINABLE BLADE, REUSE EXISTING IF FREE AREA IS > 2.32 SF AND < 33.84 SF FOR 2000 CFM AND 3765 CFM LOUVERS RESPECTIVELY.		1/2' BIRDSCREEN	MATCH TO EXISTING ASSUMED: GREENHECK ESD-435
R1	GRID CORE RETURN GRILLE 1/2'X1/2'X1/2', ALUMINUM WHITE	GRD	SQ. TO ROUND FITTING	TITUS SOR/3

NOTES: COORDINATE DIFFUSER LOCATIONS WITH LIGHTS AND OTHER CEILING ELEMENTS

SPACE NAME	SPACE TYPE	SQ FT	PEOPLE	CFM/P	CFM/SF	V _{sz}	E _z	V _{dz}	V _{bz}	E _{vz}
FCU-1 & FCU-2										
DINING 1	RESTAURANT DINING ROOMS	627	44	7.5	0.16	554	0.6	3000	443	0.94
CORRIDORS	CORRIDORS	860	0	0	0.06	65	0.6	400	52	0.96
RESTROOM	RESTROOMS (EXHAUST/EXT./TRNSF AIR)	96	0	70	0	0	0.6	50	0	1.13
OFFICE	OFFICE SPACE	37	1	5	0.06	9	0.6	50	7	0.94
* KITCHEN	KITCHEN (EXHAUST./TRNSF AIR)	699	0	0	0.7	612	0.6	500	489	-
SYSTEM TOTAL		2319	45			533	13%	4000	502	0.94

* KITCHEN AIR IS TRANSFERRED AND THEREFORE IS NOT INCLUDED IN THE TOTAL REQUIRED OSA QUANTITY.
 NOTE: SYSTEM TOTAL IS CALCULATED USING PEAK POPULATION AND VENTILATION EFFICIENCIES AND IS THEREFORE NOT A SUM OF ALL ZONES SERVED.
 CALCULATION IS BASED ON ASHRAE APPENDIX A TO CALCULATE EV FOR MULTI-ZONE.

NOTE: BALANCE AIR HANDLERS AND ROOF TOP UNITS TO 20% OUTSIDE AIR PER AIR BALANCE CALCULATION.

E _z	ZONE AIR EFFECTIVENESS	V _{ps}	PRIMARY SYSTEM AIR FLOW
V _{dz}	ZONE DESIGN SUPPLY	V _{ou}	UNCORRECTED OA
V _{bz}	UNUSED OA TO BREATHING AREA	V _{ot}	MIN OA REQUIRED FOR SYSTEM
V _{sz}	UNUSED OA REQUIRED TO ZONE	E _v	SYSTEM VENTILATION EFFICIENCY
E _{vz}	ZONE VENTILATION EFFICIENCY (APP A)		

	HOOD EXHAUST	HOOD OUT. AIR	SUPPLY AIR	RETURN AIR	OUTSIDE AIR
HOOD #1 (KEF-1) (MAIN)	-2981	2385			
HOOD #2 (KEF-2) (PIZZA)	-1200	1360			
TOILET EXH (EF-1) (RESTROOMS)	-150				
EXHAUST (EF-1) (MOP SINK)	-50				
MUA-1 (HOOD)					3765
	-4381	3765		0	3765
FCU 1			2000	1600	400
FCU 2			2000	1600	400
TOTAL EXHAUST	-4381		4000	3200	800
TOTAL OUTSIDE AIR		4565			
NET AIR FLOW		184			

KEY	UNIT TYPE	DESCRIPTION	HEATG	COOLG	FLOW	PRES.	WEIGHT	PWR	VOLT	MANUFACTURER/CAT.#
HOOD 1	TYPE I EXHAUST HOOD	13'3" TYPE I EXHAUST HOOD, UL 70/NFPA 96/ NSF LISTED, MAKE UP AIR PLENUM, AC SUPPLY PLENUM, ANSUL FIRE SUPPRESSION SYSTEM, BALANCE DAMPERS, ZERO CLEARANCE, HIGH EFFICIENCY FILTERS, CONTROL PACKAGE/ INTERLOCKS, ETC FOR A COMPLETE SYSTEM			2981 CFM EA/ 2385 CFM MUA		1232 LBS	SEE HOOD PKG	SEE HOOD PKG	CAPTIVEAIRE 5424 ND-2-PSP-F (COOK LINE)
HOOD 2	TYPE I EXHAUST HOOD	6'0" TYPE I EXHAUST HOOD, 12" ROUND EXHAUST COLLAR, AC SUPPLY PLENUM			1200 CFM EA		412 LBS	SEE HOOD PKG	SEE HOOD PKG	CAPTIVEAIRE 6824 ND-2-PSP-F (PIZZA OVEN)
KEF 1	UTILITY SET EXHAUST FAN	B.I. BLADES BELT DRIVE, VERTICAL DISCH., ALUMINUM WHEEL, UL782			4161	1.5"	570 LBS	5 HP	208/3	CAPTIVEAIRE USB24DD-R1 (COOKLINE)
MUA 1	MAKE UP AIR UNIT	DIRECT FIRED, 2X 5-TON DX COOLING, SIDE DISCHARGE, MODULATING BURNER, DUCT STAT WITH ROOM OVERRIDE STAT, HUNG FROM STRUCTURE, CONTROL STATION 2 FILTERS	252 MBH		3765	0.5" ESP	1500 LBS	13.1 MCA	208/3	CAPTIVEAIRE A2-D.250-200
FCU 1 & FCU 2	EXISTING FAN COIL UNIT	DX COOLING, HORIZONTAL, CASED, SETBACK T-STAT, INTEGRAL DISCONNECT, -20 ELECTRIC HEAT KIT	14.6kW	5 TON (NOV)	2000	0.25"		1 HP	240/1	EXISTING FIRST CO 60H8XV-20
CU 1 & CU 2	EXISTING CONDENSING UNIT	AIR COOLED, SCROLL COMPRESSOR, 13.0 BEER, HAIL GUARD		5 TON (NOV)			250 LBS	34.4 MCA	240/1	EXISTING CARRIER CA12NA-060
EF 1	CEILING EXHAUST FAN	BACK DRAFT DAMPER, 950 RPM			75 CFM	0.25"		19 W	120/1	GREENHECK SP-A110 (RESTROOM)

NOTES:
 * BASE ASSUMPTION IS FOR ALL KITCHEN HOOD PACKAGE TO BE PROVIDED BY M.C. M.C. TO PROVIDE DEDUCT ALTERNATE PRICE FOR KITCHEN VENDOR TO PROVIDE. COORDINATE WITH S.C./KITCHEN VENDOR
 * M.C. IS RESPONSIBLE FOR ALL ANCILLARY EQUIPMENT AND DUCTWORK NEEDED TO CONNECT EQUIPMENT.
 IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE ELECTRICAL CHANGES DUE TO EQUIPMENT SUBSTITUTIONS WITH EC.

T R A P P A R C H I T E C T S L L P
 4135 AUTUMN CT. BOULDER, CO 80504-303.415.0036



FIELD VERIFICATION: VERIFY ALL FIELD DIMENSIONS AND CONDITIONS WITH THE SITE AND REPORT ANY DISCREPANCIES, ERRORS OR OMISSIONS TO TRAPP ARCHITECTURE PRIOR TO CONSTRUCTION OR COMMENCEMENT OF CONSTRUCTION. ALL FIELD VERIFICATION IS BASED ON EXISTING DRAWINGS AND MAY NOT BE CURRENT TO THE BUILT CONDITIONS OF THE SITE.
 TRAPP ARCHITECTURE SHALL RETAIN ALL STATUTORY, COMMON LAW AND OTHER RESERVED RIGHTS. THESE DRAWINGS AND RELATED DOCUMENTS SHALL NOT BE DUPLICATED, DISCLOSED OR OTHERWISE USED WITHOUT WRITTEN CONSENT OF TRAPP ARCHITECTURE.

URBAN FIELDS
 BLDG #2 S. MAIN STATION
 LONGMONT, CO.

DUAL END OVERLAP (CHECKERBOARD)

4" OVERLAP CHECKERBOARD METHOD: USES TWO LAYERS WHERE BOTH EDGES OF EACH ALTERNATING BLANKET ARE COVERED BY EACH ADJACENT BLANKET WHOSE EDGES ARE EXPOSED. THE OUTER LAYER EDGES ARE OFFSET 12" FROM THE INNER LAYER.

SINGLE END OVERLAP (TELESCOPE)

4" OVERLAP - TELESCOPE METHOD: EACH ADJACENT BLANKET HAS ONE EDGE EXPOSED AND ONE EDGE COVERED BY THE NEXT BLANKET, THIS TECHNIQUE IS DUPLICATED FOR THE OUTER LAYER.

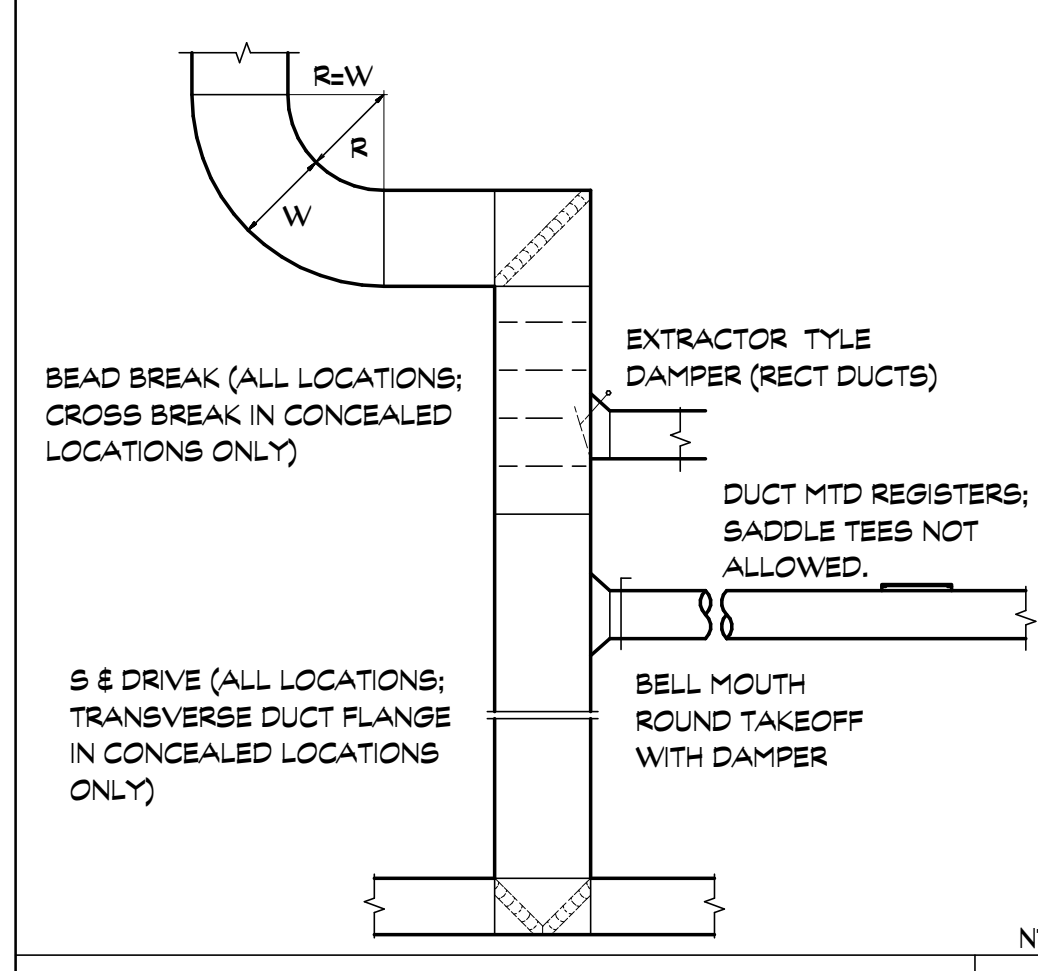
BUTT JOINT WITH COLLAR

BUTT SPLICE WITH COLLAR METHOD: THE BLANKETS ARE BUTTED TOGETHER ON BOTH LAYERS AND AN 3" WIDE COLLAR OF BLANKET IS CENTERED OVER THE BUTT SPLICE OF THE OUTER LAYER, OVERLAPPING EACH ADJACENT BLANKET BY 4".

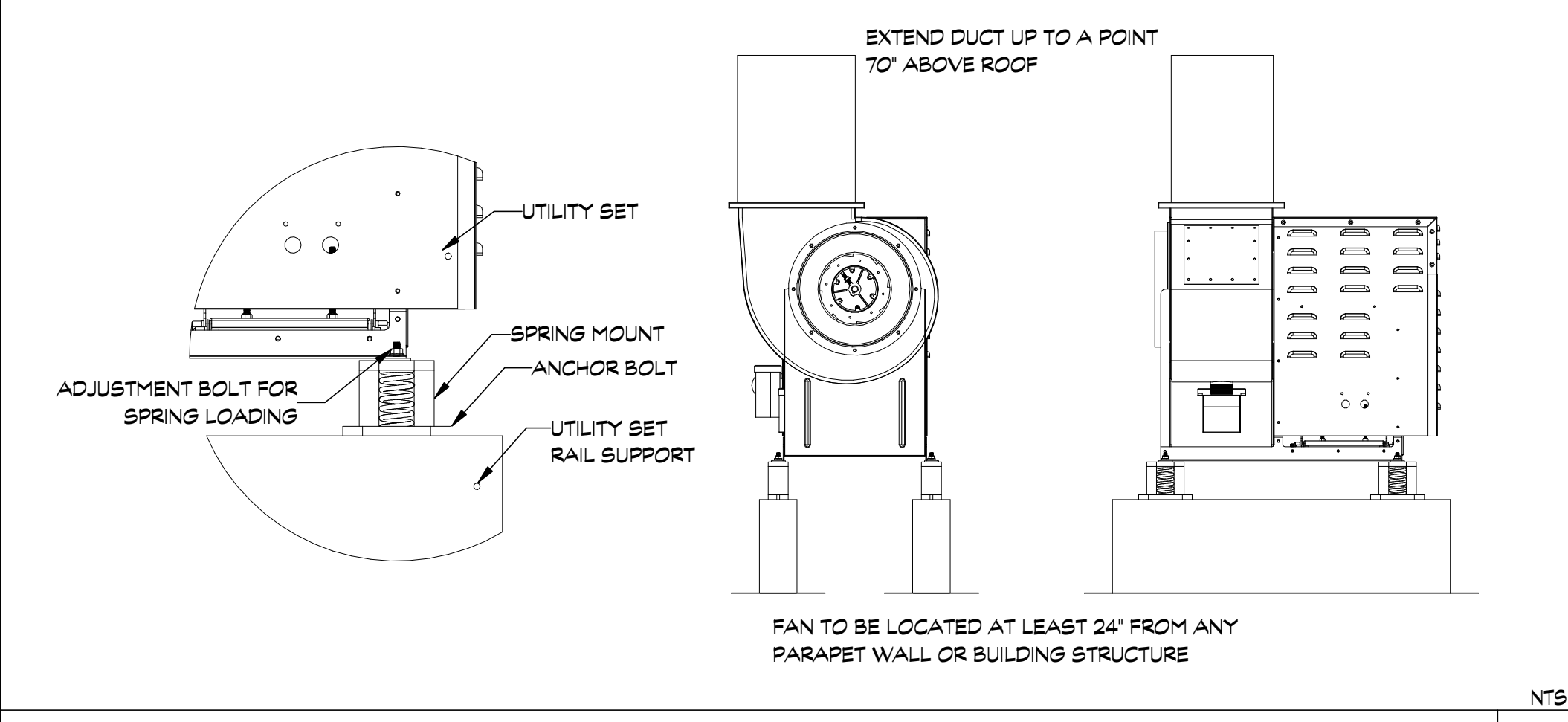
- * GREASE DUCT TO BE 16GA STEEL WITH CONTINUOUSLY WELDED LIQUID TIGHT BEAM.
- * SLOPE DUCT TO HOOD AS REQ'D BY CODE.
- * DUCT TO BE WRAPPED IN THE BUILDING WITH (2) LAYERS OF 1-1/2" 3M FIREMASTER (OR EQUIV W/ ASTM 2336 APPROVAL) OR DUCT IS TO REMAIN 18" FROM COMBUSTIBLES. INSTALL WRAP PER MFGS INSTRUCTIONS.
- * TRANSITION FROM HOOD COLLAR TO DUCT SIZE SHOWN.
- * PROVIDE ACCESS DOORS AS REQUIRED & WHERE SHOWN.
- * VERIFY EXACT ROUTING WITH STRUCTURE AND OFFSET AS REQUIRED.

NTS
4

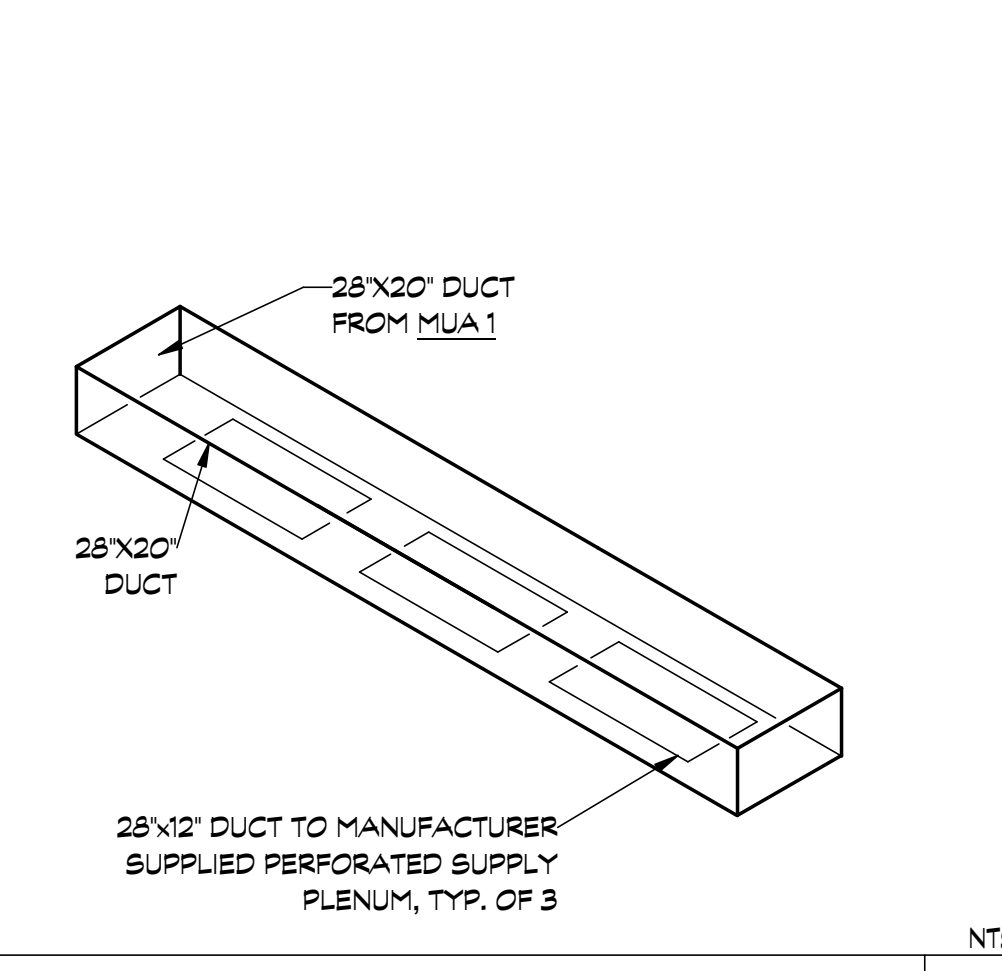
GREASE DUCT FIRE WRAP DETAILS



LOW PRESSURE DUCT CONNECTIONS 3



UTILITY SET MOUNTING DETAIL 2



MUA PLENUM DETAIL 1

SUBMISSIONS:

M2.1

MECHANICAL DETAILS & SCHEDULES

DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING

SECTION 23 05 00 - COMMON WORK RESULTS FOR HVAC

1.01 WORK INCLUDED

A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items omitted but necessary to construct and install the complete systems described by the Contract Documents and specified below. "Contractor" refers to the Mechanical Contractor. The general conditions of the specifications apply and are included in this part of this section.

1. Heating, ventilating and air conditioning systems
2. Temperature control system
3. Kitchen supply and exhaust

1.02 CODES AND REGULATIONS

A. Comply with state and local codes, and utility company regulations. Final interpretations will be made by the local inspection authority. The Contractor to verify the governance of the following Codes, including any local amendments and supplementary codes such as the Codes of the National Fire Protection Association:

1. Building Code: 2018 International Building Code
2. Plumbing Code: 2018 International Plumbing Code
3. Mechanical Code: 2018 International Mechanical Code
4. Fire Code: 2018 International Fire Code
5. Gas Code: 2018 International Fuel Gas Code
6. Energy Code: 2018 International Energy Conservation Code
7. Electrical Code: 2020 National Electrical Code

1.03 EQUIPMENT AND MATERIALS STANDARDS

A. Equipment and materials shall be new, UL-listed for the use intended, and free from damage or defect. They shall comply with the latest industry standards.

1.04 CONTRACT DRAWINGS

A. Illustrate the general design and extent of performance required. All dimensions and locations shall be taken from the Architectural drawings. Consult with Architectural plans and locate all ceiling equipment where indicated on reflected ceiling plans

1.05 SHOP DRAWINGS

A. Submit products data and/or shop drawings as required by the Architect for the following:

1. Insulation
2. Air handling equipment
3. Grilles, registers, diffusers, louvers
4. Fire dampers
5. Temperature controls, systems, and components

B. Quality of specific equipment is established by manufacturer's catalog number. Alterations caused by any Substitution shall be accomplished at no additional expense to the Owner.

C. Manufacturers not listed may submit for acceptance as an "approved equivalent." Requests for an "equivalent" means "approved equivalent". Four copies of such submittal must be received by the Engineer seven (7) working days prior to bid date.

1.06 WARRANTY

A. The Contractor shall be responsible for the successful operation of mechanical systems, equipment, and materials installed under this Contract for a period of one year from the date of final acceptance. Defective equipment or materials shall be repaired or replaced at no expense to the Owner. Provide four complete service and maintenance calls spaced at equal intervals during the warranty period.

1.07 PRODUCT HANDLING AND CLEAN UP

A. Equipment shall be left clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.
B. HVAC equipment shall not be used during construction as a means to heat or cool the space, unless specific approval is given by the owner. If such equipment is used, it must be completely cleaned and repaired as necessary. Cleaning involves replacing all filters; cleaning all coils and heat exchangers; inspecting fans, plenums, and ductwork and cleaning as directed by the owner.

1.08 CUTTING AND REPAIRING

A. The contractor shall be responsible for all cutting, drilling, welding, and repair required for his portion of the work. Coordinate with the Architect. The General Conditions take precedence.

1.09 OPERATING AND MAINTENANCE DATA

A. Provide the Owner with operating and maintenance instructions (four copies) required for operation of all mechanical systems. Bind the written instructions in a notebook. The General Conditions take precedence. The manuals shall include the following items:

1. Operating manual and spare parts list for each piece of equipment.
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.
3. Instructions on who to call for service during the warranty period.

1.10 PERMITS

A. The contractor shall pay for all fees, taxes, secure permits, licenses, and inspections required for the project.

1.11 TEMPORARY SERVICES

A. Provide temporary water service for construction, as required by the General Contractor.

1.12 COORDINATION

A. Coordinate outlet device and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and to provide functional use of all equipment. Verify electrical power characteristics before ordering equipment.

B. Electrical work performed by this contractor will conform to the standards of Division 26-28. Mechanical equipment motors and controls shall be furnished, set in place, and wired according to the following schedule unless otherwise noted or specified. MC = Division 21-23 EC = Division 26-28

	Furn	Set	Power	Control
Item	By	By	Wiring	Wiring
Combustion starters	MC	EC	EC	MC
Equipment motors	MC	MC	EC	--
Motor starters & O.L. relays	MC	EC	EC	MC
Disconnect switches	EC	EC	EC	MC
Thermal overload heaters (1)	EC	EC	EC	--
Variable Speed Drives	MC	EC	EC	MC
Control relays/transformers	MC	MC	EC	MC
Temperature control panels	MC	MC	EC	MC
Temp. Controls cond./wiring	MC	MC	--	MC
Actuator and solenoid wiring	MC	MC	--	MC
Pushbuttons & pilot lights	MC	MC	--	MC
Room thermostats	MC	MC	--	MC
Thermostats: line voltage	EC	EC	EC	--

C. The general guideline for the division between control (by MC) wiring and power wiring (by EC) is that power wiring carries the current which energizes a motor, control wiring does not. Control wiring may be 120V, which would be the responsibility of the MC. Control motors are wired by the MC.

D. Examine the site and become aware of existing conditions, utilities, and other issues affecting the satisfactory completion of the project.

1.13 DELIVERY STORAGE HANDLING

A. Provide necessary hauling and hoisting equipment. Protect the materials of this Division before, during, and after installation.

1.14 AS-BUILT DRAWINGS

A. Keep a current set of "as-built" drawings on site. Upon completion of the work, furnish engineer with a reproducible prints showing the "as-built" installation.

1.15 PROJECT/SITE CONDITIONS

A. Visit the site to become familiar with location and the various conditions affecting the work, including existing utilities.

1.16 PLAN VERIFICATION

A. After completion of the bidding and selection process, prior to awarding the contract, the contractor must review and verify the contract documents in their entirety, including those of other trades. At this time, discrepancies, conflicts, omissions, etc in the contract documents must be documented. Alterations to the contract will be made at that time to include such items, as well other modifications which might be made by the Owner. After award of the contract, change orders caused by discrepancies, conflicts, omissions in the contract documents will not be allowed.

2.01 EXPANSION JOINTS, GUIDES, AND ANCHORS

A. Provide expansion joints or loops, guides, and anchors in piping to allow for expansion and contractions. Expansion joints shall be bellows type.

2.02 ELECTRICAL

A. Lugs: Lugs for wiring connections shall be rated for copper and aluminum, and shall have a minimum rating of 75C.
B. Electric motors shall be rated for the appropriate application: wet location (TEFC); submersible; explosion proof, VFD's, etc.

2.03 ACCESS PANELS

A. The Mechanical Contractor shall furnish and General Contractor shall install access panels where required for access to equipment. The Mechanical Contractor shall include the cost of installation in his bid. Access panels shall be adequately sized, of a type approved by the Architect and shall be fire or smoke-rated as required.

3.01 START-UP PROCEDURES

A. Follow manufacturer's recommended procedures in starting up the equipment; damage caused during start-up shall be replaced at no expense to the owner.

3.02 HANGERS AND SUPPORTS

A. Support equipment from the structure to prevent sagging, pocketing, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be steel, except copper hangers will be used with copper piping. Hangers supporting vibrating equipment shall be provided with spring isolators. Chain, perforated iron or wire hangers are not permitted. Hangers will be of a type acceptable to the Engineer, and shall have a capacity and spacing as required by code.

3.03 LOW EMITTING MATERIALS

A. All sealants & adhesives required for the installation of mechanical & plumbing system within the building envelope shall meet the requirements for low emitting materials as set for in the South Coast Air Quality Management District (SCAQMD) Rule #1168 (or LEED new construction requirements), which includes but is not limited to:

1. Metal to Metal adhesive: VOC limit of 30g/L.
2. Fiberglass adhesive: VOC limit of 80g/L.
3. Multipurpose construction adhesive: VOC limit of 70 g/L.

SECTION 23 05 93-TESTING, ADJUSTING, AND BALANCING

1.01 GENERAL

A. Balancing shall be done by an independent firm specializing solely in the discipline of balancing air and water systems, and a member of NEBB. Firms desiring to furnish services for this project shall submit for written approval during bidding. All air and hydronic systems shall be balanced using applicable proportionate procedure.

2.01 TESTING CONDITIONS

A. (Air) Before adjustments are made, check the system for such items as dirty filters, duct and damper leakage, vibrations, etc. All diffusers, duct sections, etc. shall be adjusted to deliver design quantities within 5%. Air quantities shall be tested simulating filters being 50% loaded. Adjust/replace sheaves and belts as required to achieve design air quantities. Replace thermal motor overloads as required.

2.02 REPORT

A. After all adjustments are made, a detail written report shall be prepared and submitted for approval. Final acceptance of the project will not be made until a satisfactory report is received and filed verified. The report shall detail the test equipment and balancing procedures being used; the general status of the system being tested including equipment details; provide data sheets indicating the required and actual CFM of all outlets and inlets.

SECTION 23 07 00 - INSULATION

1.01 QUALITY ASSURANCE

A. All insulation shall have a composite rating (insulation, jacket and adhesives) not exceeding flame spread 25 and smoke developed 50.

2.01 PIPE INSULATION FOR PIPING ABOVE GRADE

A. Insulation shall be closed-cell, elastomeric pipe insulation having a conductivity of 0.27 at 75 °F mean, with thicknesses as follows:

Pipe Sizes	1/2"	1-1/2"	>1-1/2"
Refrigeration (Suction Lines)	1"	1"	1"

B. Insulation shall be Armaflex "Armaflex" or equivalent by Johns-Manville, Owens-Corning.

C. Exterior piping insulation will be painted with a white solvent based alkyl finish(Armaflex AB or equivalent), including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions. Where exposed to physical damage, exterior piping insulation will be covered with aluminum jacket, including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions.

D. All interior underground (domestic and hydronic) piping shall be insulated with 1" Armaflex, except where noted.

2.02 REFRIGERATION PIPE INSULATION

A. Insulation shall be 1" thick, closed-cell, elastomeric pipe insulation having a conductivity of 0.27 at 75 °F mean;

B. Exterior piping insulation will be painted with a white solvent based alkyl finish(Armaflex AB or equivalent), including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions. Where exposed to physical damage, exterior piping insulation will be covered with aluminum jacket, including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions.

C. Insulation shall be Armaflex "Armaflex" or equivalent by Johns-Manville, Owens-Corning.

2.03 DUCT INSULATION WRAP

A. Duct wrap insulation shall be flexible fiberglass insulation, 1 pcf, with factory-applied, reinforced, aluminum foil vapor barrier. Insulation shall have a K-factor of .25 at 75 °F mean.

- B. Duct wrap shall be installed as follows or as shown on the plans:
 1. Supply air ducts(heated space): 1-1/2"
 2. Supply air ducts(unheated space): 2"

C. Wrap shall be Johns-Manville "Microclote" or equivalent by Owens-Corning, Certaineed or Knauf.

D. At the contractor's option, the above specified duct wrap may be replaced with duct liner or equal or greater thickness.

2.04 DUCT LINER

A. Duct liner shall be 1-1/2 lb density (3.0lb for exterior ducts), constructed of glass fiber liner. The air stream surface is coated with black-coated mat surface. Linner shall have a "K" value of 0.24/inch at 75F mean.

- B. Duct liner shall be installed as follows or as shown on the plans:
 1. Supply air ducts: 1"
 2. Exterior supply, return, or make up air ducts: 2"
 3. Return air ducts(within 15' of fan): 1/2"
 4. Outside air intakes within space: 1"
 5. Treated make up air within space: (not insulated)
- C. Linner shall be Johns-Manville "Limaoustic" or equivalent by Owens-Corning, Certaineed or Knauf.

3.01 PIPE/ELASTOMERIC

A. Insulation shall be solid slip-on installed prior to connection. Butt joints shall be sealed with manufacturer's adhesive. Where slit seams must be installed, seal the seam with manufacturer's adhesive. Fittings shall be insulated with meter-cut pieces of insulation according to manufacturer's instructions, or insulated with similar sheet insulation installed according to manufacturer's instructions.

B. Provide wood blocks and metal hanger shields at support strap locations on horizontal pipe runs. Insulation will not be interrupted for supports, etc.

3.02 DUCT WRAP

A. Wrap the fiberglass blanket around the ductwork with 2" overlapping flanges stapled at 6" on center. Strip the lap of insulation and staple the facing directly to the overlapped foil. Secure the insulation to the ductwork with 18-gauge galvanized steel bearing pillow blocks. Motor and shaves will be protected in a weatherproof enclosure. Construction shall be non-spraying. Listed for use with a Class I kitchen hood. Fan shall be mounted on spring vibrator isolators. Assembly will be mounted on a roof curb with galvanized sheetmetal cap, with 1/2" lip all around. Fans shall be manufactured by Acme, Greenheck, Penn Ventilator, Supreme, or equivalent.

3.03 ACOUSTIC DUCT LINER

A. Linner shall be secured to all duct surfaces by pressing into wet adhesive, applied to 100% of the duct surface. In addition, linner shall be held in place with insulinsine welded to duct and with clips slipped over the pins. Insulinsine shall be located per SMACNA Standards. Linner shall be lapped and compressed in all four corners of the duct. Both upstream and downstream transverse edges shall be coated with adhesive, coated a minimum of 1" over the edge in all places.

SECTION 23 09 00 - AUTOMATIC TEMPERATURE CONTROLS

1.01 SCOPE

A. Furnish, install, and place in operation a complete system of automatic temperature controls. The temperature control control shall be weatherproof. Set in frame, secure, and caulk into opening. Provide galvanized steel 1/2", 19-gauge wire mesh behind louver. Size per the plans.

B. Approved manufacturer's shall be Louvers and Damper, Airstream, Dowco, Ruskin, or Titus.

C. The control system shall include all components and appurtenances necessary to provide a complete system. All wiring for automatic temperature controls, regardless of voltage shall be the responsibility of the ATC Contractor. 120VAC work shall be installed in conformance with requirements of Division 16. The Temperature Control Contractor shall coordinate all electrical work associated with his installation with the Electrical Contractor. Power wiring for all equipment, shall be the responsibility of the Electrical Contractor.

1.02 QUALITY ASSURANCE

A. Upon completion of the work, instruct the building operating personnel and provide two (2) complete sets of operating and maintenance instruction booklets.

B. Submit copies of complete temperature control diagrams with written "sequence of control" and factory-printed specification data sheets covering each control device proposed to be used, prior to installation of any equipment or part or system.

1.03 SERVICE AND GUARANTEE

A. The Contractor shall guarantee the control system installed under this section of the specification to be free from defects in workmanship and material under normal use, and agrees to provide service for one (1) year after acceptance by the Engineer or of beneficial occupancy of the building. Any defects in workmanship or material during this time shall be corrected at no charge to the Owner.

2.01 THERMOSTATS

A. HVAC unit thermostats shall be low-voltage, programmable, heating/cooling type with fan on-auto switch. Units shall be Honeywell TH6000 or equivalent.

3.01 SEQUENCE OF OPERATION

- A. HVAC units shall each be controlled by a heating/cooling thermostat.
- B. Toilet exhaust fans shall be controlled with associated lights.
- C. Dishwasher hood exhaust fan shall be controlled manually.
- D. Kitchen hood exhaust fans shall be interlocked with MUA unit for simultaneous operation. Provide fire alarm interlock as required by local inspector and/or fire chief. Unless otherwise required as mentioned above, all will be de-energized by a signal from any hood fire protection system. Kitchen hood exhaust fans shall be automatically activated when cooking commences (via thermostat in hood collar by hood ventor).
- E. Activation of a duct detector shall shut down its respective HVAC unit.

SECTION 23 30 00 - HVAC AIR DISTRIBUTION SYSTEMS

1.01 DUCTWORK

A. General All ductwork shall be constructed strictly according to the latest ASHRAE, SMACNA, and IMC standards. Duct sizes shown are inside clear dimensions; maintain sizes inside lining for lined ducts.
B. Sheet Metal:

1. Sheet metal shall be constructed of coated galvanized steel of lock-forming grade conforming to ASTM Standards A-653/A653M and A-924. Reinforcement shall be constructed of galvanized steel.
2. Duct thickness shall conform to the above standards. Where there is a discrepancy, the greater thickness shall apply. Reinforcement, joint type, spacing and thicknesses may be varied at the contractors discretion, in conformance with the above standards, except where specifically noted. Transfer ducts across rated corridors shall be 26 gauge, or as required by Code.
3. Round ductwork exposed to the public will be galvanized steel, spiral wound, maintaining in a clean, shiny appearance, and not utilizing visible sealing material. Concealed round ductwork may spiral wound, or snap lock type galvanized steel ductwork.
4. Sealing: All longitudinal and transverse joints in ductwork shall be sealed with Mon-Eco Industries Eco Duct Seal 44-50 or equivalent as follows:
 - a. Main supply ductwork shall be sealed to SMACNA Class B Standards(3"W.G. or less).
 - b. Return, exhaust, and supply ductwork shall be sealed to SMACNA Class B Standards(3"W.G. or less).
 - c. Return, exhaust, and supply ductwork downstream of coils and VAV boxes shall be sealed to SMACNA Class C. (2"W.G. or less).
5. Location: Sheet metal may be used throughout the project.
- C. Flexible Ductwork (Polymer Liner):
 1. Flexible ductwork shall be constructed of a spring steel helix supporting a plastic core. It shall be insulated with 1" fiberglass having a density of 1 lb./cu.ft. The insulation is sheathed in a copolymer vapor barrier jacket.
 2. The duct shall be rated at 10" w.g., and a maximum velocity of 4000 fpm. The duct shall be listed in conformance with UL Standard 181, Class 1.
 3. Flexible duct shall be limited to a maximum length of 2', as a means of connecting boxes, diffusers, etc. to the duct system. Uninsulated flexible duct may be used where the adjacent ductwork is uninsulated or lined.
 4. Flexduct shall be manufactured by Hart & Cooley, Cleveflex or equivalent.

1.02 SPECIAL DUCT SYSTEMS

- A. Kitchen hood exhaust.
 1. Duct shall be constructed strictly according to the latest ASHRAE and SMACNA standards. All duct work shall be constructed of 16-gauge steel or 304 stainless steel, 18-gauge minimum. All duct, and duct to hood joints, with longitudinal seams and transverse joints continuously but welded. Slope exhaust duct at not less than 1/2", except where other code requirements require a steeper slope. Duct connections to fans shall be flanged and gasketed to be grease tight.
 2. Ducts shall be wrapped with a two layers of foil encapsulated, alumina/silica fibrous blanket, in strict accordance with the manufacturer's directions, and in conformance with ASTM std 2236. Joints shall be butt joints with overlaps. The blanket shall be firmly secured to the duct using carbon steel bands. Blanket shall be 3M Firemaster, Ductwrap or Firewrap, or equivalent.
 3. Exterior ducts shall be painted with paint rated for 150F, color as selected by the Architect. The duct will be cleaned and primed prior to painting.
- B. Dishmachine:
 1. The dishmachine exhaust duct shall be a waterproof duct system, suitable for use with saturated air. Where exposed in the kitchen, the duct system shall be constructed of burnished stainless steel with a smooth finish to match the adjacent dishmachine.
 2. The duct system shall used stainless steel with welded joints in all rectangular portions of the system.
 3. After the rectangular SST portion of the system transitions to round ductwork, the system may be made of aluminum with Fernco couplings, PVC pipe with solvent joints, or stainless steel with welded joints. Vertical portions must also be watertight, but aluminum ducts need not use Fernco couplings if properly configured. Submit alternate material or systems to the engineer for approval. Silicone sealant on conventional aluminum or SST ductwork is not allowed.

1.03 DUCT ACCESS DOORS

- A. Where motorized dampers, fire dampers, control equipment, etc. are installed in ducts, and for cleaning ductwork, access doors shall be provided in the ducts, made air-tight with gasketed edges. Use Ventlok, or equal, sprung rubber or felt gasketing material. The doors shall be double-wall construction with 1" of rigid insulation fill and shall be attached to the duct with cam latches. Omit access door insulation and double-wall construction if ducts are not specified to be insulated. Access doors shall be constructed of the same materials as the ductwork.
- B. Provide access panels where required for access to the "Duct Access Doors." If these access panels are placed in fire-rated walls or ceiling or floor, then the access panel shall have the same rating.

1.04 FLEXIBLE CONNECTIONS

A. All supply and exhaust fans and other air handling units with inlet and outlet duct or easing connections shall have a flexible connector in each connection. Connector shall be made of at least one layer of Ventlags, two-sided, neoprene-coated, heavy glass fabric, Underwriters' approved and labeled as manufactured by Ventfabrics, Inc.

2.01 GRILLES, REGISTERS, AND DIFFUSERS

A. Provide grilles, registers, and diffusers of the size and type shown on the plans. Grilles, registers, and diffusers shall be made of steel with a baked white enamel finish, or extruded aluminum with clear finish, as indicated for each grille, register, or diffuser. Secure each grille, register, or diffuser to the ductwork. Secure the ductwork, or where required by local code. Paint ductwork visible behind GRD's flat black. G.R.D's shall be manufactured by Titus, Price, Metallaire, or equivalent.

2.02 DUCT DETECTORS

A. Duct smoke detectors shall be solid state photo-electric type. Detector shall include air sampling chamber with sampling tubes extending through the width of the air duct. LED Alarm status indicating lights shall be visible on the front of the detector. Key controller test and reset switches plus an easily accessible test jack shall be provided. They shall include alarm relay contacts (DPDT) capable of handling loads of up to five (5) amperes at 210 VAC or 28 VDC resistive. Unit shall have self-contained power supply requiring 120/220/240V power. Detector shall include a remote indicating light/test switch (this may be deleted if the unit is clearly visible and readily accessible). Provide necessary interlocks with air handlers, smoke detectors, etc as required by the local fire department, including relays, transformers, etc. Detectors shall be listed by Underwriters' Laboratories for use in air conditioning and ventilating duct systems in compliance with the National Fire Protection Association and Underwriters' Laboratories, Standard UL 167.

2.03 EXHAUST FAN CEILING

A. The ceiling exhaust fan shall have a steel housing with a galvanized or baked enamel finish. An automatic back-draft damper shall be located within the duct connector and have cushioned stops. The fan wheels shall be balanced centrifugal and shall operate at less than 1200 rpm. Fans shall bear the AMCA certified rating seal and the U.L. label. The entire fan, motor, and wheel assembly shall be removable without disturbing the housing. Fan motors shall be grounded and mounted on vibration isolators. Fans shall be Penn Zephyr, Greenheck, Cook Gemini, or approved equivalent.

2.04 EXHAUST FAN UTILITY SET

A. Fan shall be centrifugal, belt-driven, SWSI with non-overloading backward-inclined air foil, aluminum wheel. The housing shall be continuously-welded steel with drain connection. Configure for vertical discharge. Bearings shall be permanently lubricated, mounted on ball bearing pillow blocks. Motor and shaves will be protected in a weatherproof enclosure. Construction shall be non-spraying. Listed for use with a Class I kitchen hood. Fan shall be mounted on spring vibrator isolators. Assembly will be mounted on a roof curb with galvanized sheetmetal cap, with 1/2" lip all around. Fans shall be manufactured by Acme, Greenheck, Penn Ventilator, Supreme, or equivalent.

2.05 EXHAUST FAN ROOF

A. The roof-mounted exhaust fans shall have a spun-aluminum housing. The fan wheels shall be dynamically balanced, aluminum, centrifugal BL. The motor shall be belt-drive, open drip-proof type, mounted internally on vibration isolators. Fans shall bear the AMCA certified ratings seal and the U.L. labels for rating under U.L. Std. 762. Fans shall be controlled as scheduled in Section 23 09 00 Controls. Fans shall be Greenheck, Penn, Cook, Acme, Ilg, Carnes, or approved equivalent.

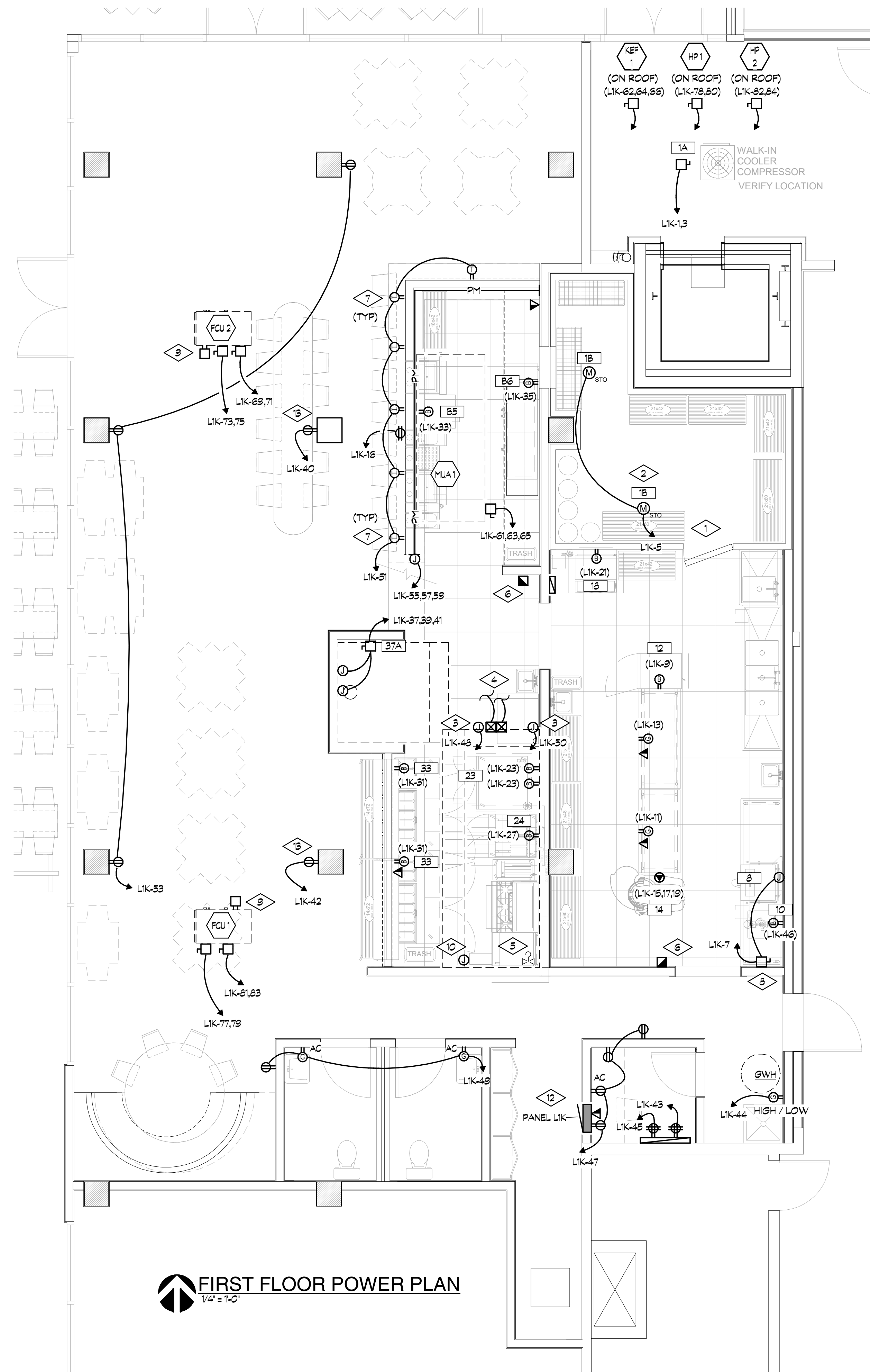
2.06 AIR INTAKE AND DISCHARGE LOUVERS

A. Exterior stationary louvers shall be anodized aluminum 4" blades on 2-7/8" centers at 30 deg with return bends. Louvers shall be weatherproof. Set in frame, secure, and caulk into opening. Provide galvanized steel 1/2", 19-gauge wire mesh behind louver. Size per the plans.

B. Approved manufacturer's shall be Louvers and Damper, Airstream, Dowco, Ruskin, or Titus.

2.07 AIR FILTERS

A. Provide air filters where shown on the drawings. Filters shall be rigid, throw-away type, constructed of pleated fiber materials with metal mesh support maze across both faces of the media. Thickness will be 2", unless 1" is the maximum thickness allowable. Filters shall have a UL listing of Class II and an average 30%(MERV 5) efficiency rating of ASHRAE Std. 52-76. Filters shall be Farr 30-30 or approved equivalent by Air Filters, Inc., Eco-Air, Cambridge, or American Air Filter.



FIRST FLOOR POWER PLAN
1/4" = 1'-0"

GENERAL NOTES

- A. ELECTRICAL CONDUITS, WATER, SEWER AND GAS LINES MUST FIT WITHIN KITCHEN WALLS. CONFLICTS WITH OTHER TRADES MUST BE COORDINATED OR WORK WILL BE REDONE.
- B. GFCI PROTECTION:
120V RECEPTACLES MARKED 'G' = GFCI RECEPTACLE
120V RECEPTACLES MARKED 'B' = GFCI BREAKER

NOTE: WHERE POSSIBLE AND WHERE PERMITTED BY CODE THE ELECTRICIAN SHALL PROVIDE DOWNSTREAM GFCI PROTECTION OF DEVICES WITH A SINGLE GFCI RECEPTACLE. (DEDICATED NEUTRAL SHALL BE PROVIDED FOR GFCI BREAKERS)
- C. COORDINATE ALL DEVICE AND FIXTURE LOCATIONS WITH FURNITURE, EQUIPMENT, MILLWORK AND MECHANICAL SYSTEM (DUCTWORK) LAYOUT PRIOR TO ROUGH-IN.
- D. ALL EXTERIOR ELECTRICAL COMPONENTS SHALL MEET ALL NEC INSTALLATION AND LABELING REQUIREMENTS FOR WET LOCATIONS.
- E. ALL RECEPTACLES TO BE LABELED WITH PANEL CIRCUIT ID.
- F. DEVICE MOUNTING LOCATIONS AT COUNTERS: IN FRONT OF HOUSE AREAS MOUNT DEVICES BELOW COUNTERS WITH HOLES AND GROMMETS UNLESS NOTED OTHERWISE. IN BACK OF HOUSE AREAS MOUNT DEVICES ABOVE COUNTERS.
- G. INTERLOCK HOOD FIRE SUPPRESSION SYSTEM WITH BUILDINGS FIRE ALARM SYSTEM.
- H. THE E.C. SHALL USE THE KITCHEN EQUIPMENT / FOOD SERVICE PLANS TO DIMENSION ROUGH-IN LOCATIONS. THESE PLANS ARE SCHEMATIC AND MAY SHOW DEVICES OFFSET FOR GRAPHIC PURPOSES. DO NOT TAKE DIMENSIONS FROM THESE PLANS TO DETERMINE ROUGH-IN LOCATIONS.

DETAIL NOTES THIS SHEET

1. PROVIDE EXPANSION JOINTS AND INTERIOR AND EXTERIOR MOISTURE SEALS FOR ALL CONDUITS ENTERING WALK-IN COOLERS AND FREEZER PER NEC 300.7 AND MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE (5-#12)1/2" (OR INTER-WIRING AS REQUIRED) FROM EVAP COIL TO REMOTE CONDENSER. VERIFY AND COORDINATE EXACT REQUIREMENTS AND CONNECTION DETAILS W/ REFRIGERATION EQUIPMENT MFG'S SPECIFICATIONS.
3. PRE-WIRED EXHAUST HOOD CABINET; PROVIDE CIRCUITS, CONNECTION AND INTER-WIRING FOR FIRE SYSTEM SHUT DOWN, HOOD CONTROLS, HOOD LIGHTS, ETC. DO NOT CONNECT HOOD CONTROLS OR FIRE SYSTEM POWER TO A SHUNT TRIP BREAKER. THE E.C. IS TO COORDINATE THE EXACT LOCATION AND CONNECTION REQUIREMENTS W/ HOOD MANUFACTURER AND KITCHEN DESIGNER. INSTALLATION SPECIFICATIONS AND DRAWINGS. ALL MOTOR STARTERS TO BE PROVIDED BY EC.
4. EXTEND EXHAUST HOOD LIGHTING AND FAN CONTROL CIRCUIT TO PRE-WIRED HOOD CONTROL PANEL AS REQUIRED. FIELD VERIFY AND COORDINATE INTER-WIRING REQUIREMENTS WITH HOOD MANUFACTURERS INSTALLATION INSTRUCTIONS.
5. MECHANICAL GAS VALVE; INTER-WIRE WITH HOOD FIRE PROTECTION SYSTEM FOR EMERGENCY SHUT-DOWN. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH P.C.
6. ANSUL PULL STATION. COORDINATE REQUIREMENTS WITH HOOD PROVIDER.
7. COMBINATION USB CHARGER WITH TAMPER RESISTANT 125V, 20 AMP DUPLEX RECEPTACLE MOUNTED AT BACK OF BOOTH 38" ABOVE THE FLOOR PLATFORM, ABOVE THE TABLE TOP, MOUNTED HORIZONTALLY, CENTERED ON THE TABLE TOP, OR BELOW COUNTERTOP AT 38" ABOVE FINISHED FLOOR MOUNTED VERTICALLY. FIELD VERIFY AND COORDINATE DEVICE LOCATION, ROUGH-IN HEIGHT, MOUNTING METHOD AND CONCEALED CONDUIT RUNS WITH MILLWORK (COOPER TR7746 OR EQUAL, COORDINATE COLOR W/ ARCHITECT).
8. DISH MACHINE; FIELD VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN. HOME RUN VIA 20A2P WALL MOUNTED BREAKER TO PANEL L1K; SEE KITCHEN EQUIPMENT SCHEDULE AND ONE LINE DIAGRAM FOR WIRING, CONTROL AND CONNECTION DETAILS.
9. PROVIDE SMOKE DETECTOR WITH REMOTE INDICATING AND TEST STATION UPSTREAM OF ANY OA MIXING & INTERLOCK WITH ALL AIR HANDLERS SERVED BY ASSOCIATED DUCTWORK. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH M.C.
10. MAKE UP AIR CONTROL STATION. COORDINATE EXACT LOCATION WITH M.C.
11. PROVIDE POWER AND DATA FOR TELEVISION. COORDINATE MOUNTING HEIGHT WITH ARCHITECT AND BRACKET INSTALLATION WITH MANUFACTURER.
12. MAINTAIN MINIMUM WORKING SPACE IN FRONT AND ABOVE ALL ELECTRICAL PANELS PER NEC 110.26 AS REQUIRED.
13. POWER FOR TV's. COORDINATE EXACT LOCATION AND QUANTITY WITH OWNER. PROVIDE DATA/CABLE CONNECTION AS NEEDED. (MAX - 3 TV'S PER CIRCUIT)

KITCHEN EQUIPMENT						
KEY	DESCRIPTION	LOAD	VOLT	CIRCUIT	CONNECTION	REMARKS
1A	WALK-IN COMPRESSOR	2 HP	208/1	(2-#10,#10G) 1/2" C	30/2; 25 FRN	
1B	WALK-IN EVAPORATOR	15 MCA	120/1	(2-#12,#12G) 1/2" C	THERMAL O.I.L.	
1C	WALK-IN (120V)	30 A	120/1	(2-#8,#10G) 3/4" C	J-BOX	DOOR HEATER INCLUDED
8	LOW TEMP WAREWASHER	12 A	120/1	(2-#12,#12G) 1/2" C	30/2; 15 FRN	
10	DISPOSER	1 HP	120/1	(2-#12,#12G) 1/2" C	5-2OR	
12	REACH-IN FREEZER	4.5 A	120/1	(2-#12,#12G) 1/2" C	5-2OR	
14	MIXER	20 MCA	220/3	(3-#12,#12G) 1/2" C	SPEC. PURPOSE	PROVIDE BUCK-BOOST AS NEEDED
18	ICE MAKER	10.7 A	120/1	(2-#12,#12G) 1/2" C	5-2OR	
23	DOUBLE OVEN	6 A	120/1	(2-#12,#12G) 1/2" C	5-2OR	TWO CONNECTIONS REQUIRED
24	FRYER (120V)	2 A	120/1	(2-#12,#12G) 1/2" C	5-2OR	
33	PIZZA PREP REFRIGERATOR	4.2 A	120/1	(2-#12,#12G) 1/2" C	5-2OR	
37A	TWO CHAMBER PIZZA OVEN	56.2 A	208/3	(3-#4,#8G) 1/4" C	100/3; 80 FRN	COORD. REQUIREMENTS WITH FINAL SPEC
37B	PIZZA OVEN CONNECTIONS	10.1 KW	208/3	(3-#8,#10G) 3/4" C	J-BOX	(2) CONNECTIONS / NO PROOFER
38	HEAT LAMP	1.2 KW	120/1	(2-#12,#12G) 1/2" C	5-2OR	UNIT MOUNTED SWITCH
B5	BACK BAR DISHWASHER	18 A	120/1	(2-#12,#12G) 1/2" C	5-2OR	COORD. REQUIREMENTS WITH FINAL SPEC
B6	BACK BAR COOLER	1/3 HP	120/1	(2-#12,#12G) 1/2" C	5-2OR	

NOTES:
 *TEMPERATURE RATING OF ALL DEVICES COULD NOT BE VERIFIED, THEREFORE WIRE IS SIZED BASED ON 60C PER NEC 110.14(C)(1)(c)
 ** LISTED EQUIPMENT FURNISHED WITH CORD AND PLUG; VERIFY CONFIGURATION
 *COORDINATE ALL ROUGH-IN HEIGHTS AND LOCATIONS WITH KITCHEN VENDOR AND/OR OWNER.

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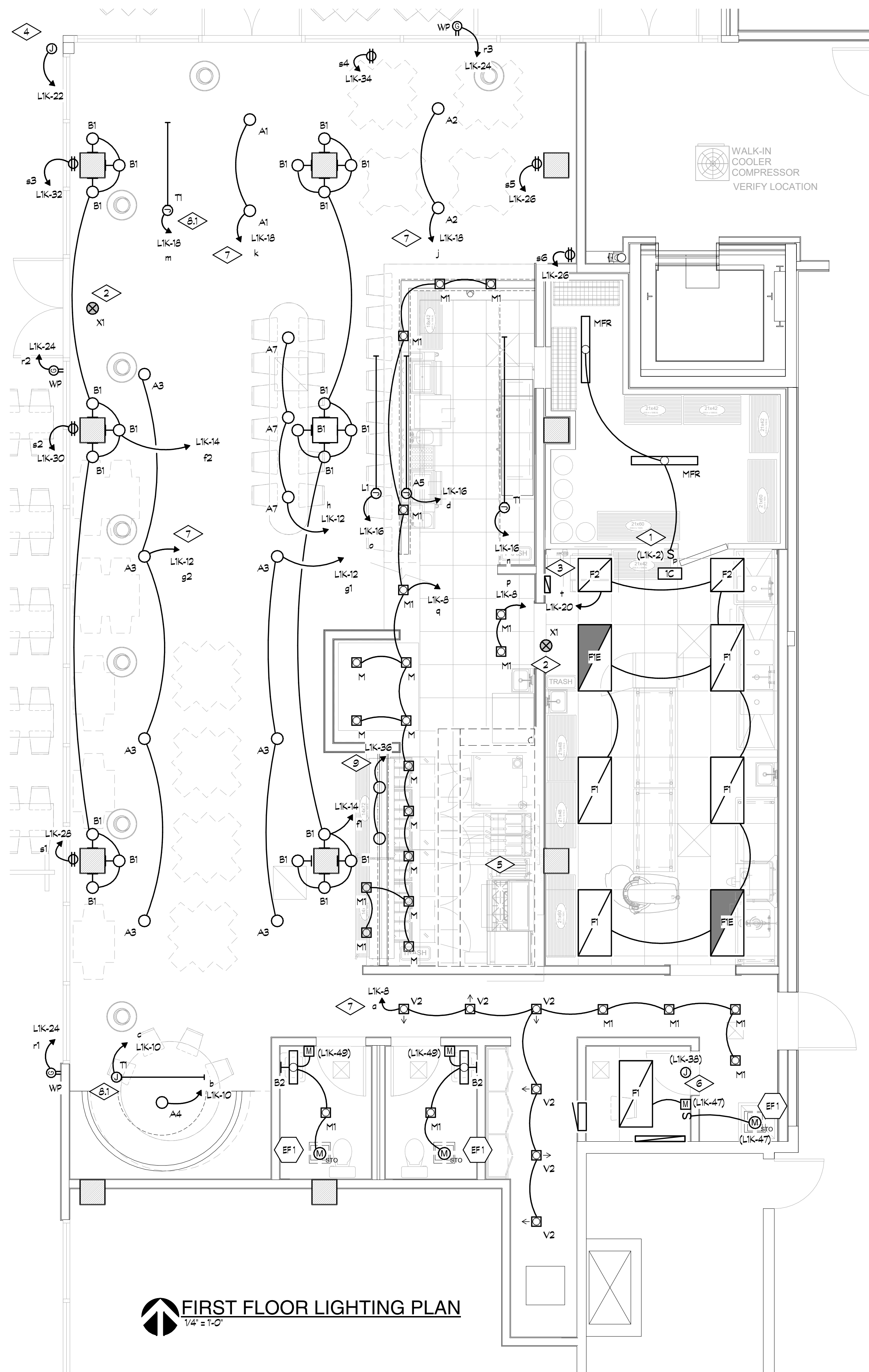


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URBAN FIELDS
BLDG #2 S. MAIN STATION
LONGMONT, CO.

SUBMISSIONS:

E1.1
FIRST FLOOR POWER PLAN



FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

GENERAL LIGHTING NOTES

- A. E.C. SHALL VERIFY THE EXACT LOCATION, MOUNTING HEIGHTS AND QUANTITY OF ALL FIXTURES AND DEVICES WITH THE ARCHITECTURAL DRAWINGS.
- B. E.C. SHALL VERIFY FIXTURE LOCATION, DETAILS, AND QUANTITY OF ALL FIXTURES WITH THE LIGHTING DESIGNER DRAWINGS.
- C. SOME LIGHTING FIXTURES AND DEVICES ARE SHOWN OFFSET ON THE PLAN FOR GRAPHIC PURPOSES. E.C. SHALL COORDINATE THE EXACT LOCATION AND ROUGH-IN HEIGHT OF ALL FIXTURES AND DEVICES.
- D. ALL EMERGENCY EGRESS LIGHTING SHALL COMPLY WITH IBC 1003.2.11
- E. ALL EXTERIOR LIGHTING FIXTURES SHALL BE INSTALLED, SHIELDED AND/OR CONTROLLED IN COMPLIANCE WITH LOCAL ORDINANCES.
- F. ALL EXTERIOR ELECTRICAL COMPONENTS SHALL MEET ALL NEC INSTALLATION AND LABELING REQUIREMENTS FOR WET LOCATIONS.
- G. COORDINATE REQUIRED BLOCKING FOR ADDED CEILING FANS WITH LANDLORD'S REPRESENTATIVE.
- H. LIGHTING SYSTEM FUNCTIONALITY TESTING/COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH IECG 408.3, ADDITIONAL LOCAL JURISDICTIONAL REQUIREMENTS TO BE CONFIRMED WITH BUILDING OFFICIAL PRIOR TO COMPLETION OF PROJECT.
- I. HOMERUN(S) VIA LIGHTING CONTROL STATION; SEE ELECTRICAL ONELINE FOR ADDITIONAL INFORMATION.

DETAIL NOTES THIS SHEET

- 1. EXTEND POWER FOR WALK-IN BOX LIGHTS TO REFRIGERATION EQUIPMENT CIRCUIT. RUN ALL CONDUIT ON EXTERNAL TOP OF COOLER. SEE SHEET E1.1 FOR CONTINUATION. PROVIDE INTERIOR / EXTERIOR MOISTURE SEALS AND EXPANSION JOINTS FOR ALL CONDUITS ENTERING THE WALK-IN COOLER AND FREEZER PER NEC 300.7 AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE A TOGGLE SWITCH WITH PILOT LIGHT AS REQUIRED.
- 2. EXTEND POWER FOR EMERGENCY LIGHT TO UN-SWITCHED LIGHTING CIRCUIT SERVING THIS AREA.
- 3. PROPOSED LOCATION FOR LIGHTING SWITCH BANK; SEE LIGHTING CONTROL DETAIL ON THIS SHEET FOR DEVICE TYPES AND CIRCUIT NUMBERS. (COORD. W/ OWNER & FINAL SPEC)
- 4. EXTERIOR SIGNAGE; USE J-BOX INSTALLED UNDER SHELL AND CONNECT TO CIRCUIT SHOWN; FIELD VERIFY AND COORDINATE LOCATION OF EXTERIOR SIGNAGE W/ SHELL. UPON FINAL CONNECTION PROVIDE DISCONNECTING MEANS PER NEC 600.6 COORDINATE THE CONNECTION REQUIREMENTS WITH SIGNAGE VENDOR / MANUFACTURER PRIOR TO ROUGH-IN. HOMERUN VIA LIGHTING CONTACTOR. SEE ONE LINE DIAGRAM FOR CONTROL DETAIL.
- 5. KITCHEN EQUIPMENT VENDOR TO PROVIDE AND INSTALL 42W E26 CFL LAMPS, 2700K FOR HOOD LIGHTING.
- 6. CENTRAL INVERTER SYSTEM; PROVIDE 500W UNIT (ISOLITE E3 SERIES OR EQUAL) TO RUN EMERGENCY LIGHT FIXTURES IN AN EMERGENCY.
- 7. LIGHTS ON CENTRAL INVERTER SYSTEM W/ INTEGRAL TRANSFER SWITCH, DIMMER SHALL BE SHUNT DURING POWER FAILURE.
- 8. PROVIDE CURRENT LIMITER AS SPECIFIED.
 - 1. 1A
 - 2. 2A
- 9. POWER FOR 250W HEAT LAMPS (GRES COR / IFW-63-10). PROVIDE CONTROL AT SWITCH BANK (NOTE#3).

LUMINAIRE SCHEDULE					
KEY	LAMP	DESCRIPTION	CEILING (DEPTH)	MANUFACTURER/#	VOLT
A1	60W MAX	DECORATIVE PENDANT	PENDANT	TBD	120
A2	60W MAX	DECORATIVE PENDANT	PENDANT	TBD	120
A3	60W MAX	DECORATIVE PENDANT	PENDANT	TBD	120
A4	60W MAX	DECORATIVE PENDANT	PENDANT	TBD	120
A5	(10) 60W LAMPS	DECORATIVE PENDANT	PENDANT	TBD	120
A7	60W MAX	DECORATIVE PENDANT	PENDANT	TBD	120
B1	(1) 60W LAMP	DECORATIVE SCENCE	WALL	TBD	120
B2	60W MAX	DECORATIVE SCENCE	WALL	TBD	120
F1	36W LED 3500K 4800 LUM	2x4 RECESSED LED TROFFER, FLUSH STEEL DOOR 0.125 ACRYLIC DIFFUSER, ELECTRONIC BALLAST	GRID (3-1/4')	LITHONIA LIGHTING / 26TL-4-48L-A12125-G210-LP835	120
F1E	36W LED 3500K 4800 LUM	2x4 RECESSED LED TROFFER, FLUSH STEEL DOOR 0.110 ACRYLIC DIFFUSER, ELECTRONIC BALLAST W/ 14W E11 BALLAST	GRID (3-1/4')	LITHONIA LIGHTING / 26TL-4-48L-G210-LP835-EL14L	120
F2	40W LED 3500K 4800 LUM	2x2 RECESSED LED TROFFER, FLUSH STEEL DOOR 0.110 ACRYLIC DIFFUSER, ELECTRONIC BAL.	GRID (3-1/4')	LITHONIA LIGHTING / 26TL-2-48L-G210-LP835	120
M	15W LED 2700K	DOWNLIGHT WITH BLACK STEP BAFFEL	GRID / GYP	PROGRESS / 6066-31 LAMP: SATCO 28480	120
M1	15W LED 2700K	DOWNLIGHT WITH BLACK STEP BAFFEL	GRID / GYP	PROGRESS / 6175-28 LAMP: SATCO 529424	120
L1	36W DRIVER	TAPE LIGHT	GRID / GYP	-	120
T1/T2	50W HALOGEN	TRACK LIGHT	-	WAC / HHT 160	120
V2	15W LED 2700K	ADJUSTABLE DOWNLIGHT	SURFACE	PEMCRAFT / 2110 BLACK LAMP: SATCO 529424	120
X1	FURN	EXIT SIGN, GREEN LED STENCIL FACE, UNIVERSAL MOUNTING, 90 MIN BATTERY PACK, FINISH BY ARCHITECT	UNIVERSAL	LITHONIA LQM 5' 3' 8' 120/277 ELN 50 (C = FINISH BY ARCH)	120
X2	FURN	EXIT SIGN W/ DOUBLE FROG EYE, GREEN LED STENCIL FACE, 90 MIN BATTERY PACK, FINISH BY ARCHITECT	UNIVERSAL	LITHONIA LHQM LED * 8' (C = FINISH BY ARCH)	120
Z1	FURN	DOUBLE FROG EYE EMERGENCY LIGHT, 90 MIN BATTERY PACK, +10' MINT 60 SPACINGS, FINISH BY ARCHITECT	WALL	LITHONIA ELM4L * (C = FINISH BY ARCH)	120
Z2	FURN	DIE CAST ARCHITECTURAL EMERGENCY LIGHT, WET LOCATION LISTED, 90 MINUTE COLD WEATHER (0°F TO 122°F) BATTERY PACK	WALL	LITHONIA APN * EXT (C = FINISH BY ARCH)	120

NOTES: NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN MODEL NUMBERS AND DESCRIPTIONS PRIOR TO ORDERING
VERIFY CEILING INSULATION W/ GC AND NOTIFY ENGINEER OF ANY IC RATING CONFLICTS PRIOR TO ORDERING

T R A P P
A S S O C I A T E S P L L C
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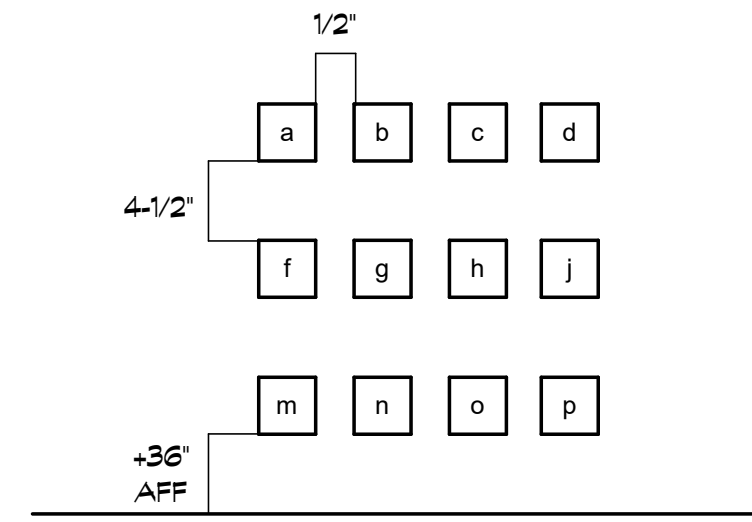
URBAN FIELDS
BLDG #2 S. MAIN STATION
LONGMONT, CO.

SUBMISSIONS:

E1.2
FIRST FLOOR LIGHTING PLAN

LEGEND

	MAIN DISTRIBUTION CENTER
	PANELBOARD
	ELECTRIC SERVICE METER
	CURRENT TRANSFORMER
	TRANSFORMER
	CONCEALED CIRCUIT
	UNDERFLOOR / UNDERGROUND CIRCUIT
	EXPOSED CIRCUIT
	WIREMOLD (SURFACE WIREWAY)
	PLUGMOLD
	HOME RUN TO PANELBOARD (ONE ARROW / CKT, PANEL & CKT #S SHOWN)
	CIRCUIT NUMBER(S) FOR SPECIFIED PANEL
	CONDUIT TURNS UP
	CONDUIT TURNS DOWN
	JUNCTION BOX / CARD READER
	PORCELAIN LAMP HOLDER (PC-PULL CHAIN)
	LIGHT FIXTURE: SURFACE MOUNTED
	RECESSED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	EXIT LIGHT: DIRECTIONAL ARROW
	BATTERY PACK
	SURFACE FLUORESCENT FIXTURE
	RECESSED FLUORESCENT FIXTURE
	SINGLE OUTLET: C-CLOCK (170°)
	DUPLEX RECEPTACLE (G: ISOLATED GROUND, S: SAFETY)
	DUPLEX RECEPTACLE - GFCI
	DUPLEX RECEPTACLE - GFCI BREAKER
	DUPLEX RECEPTACLE - TAMPER RESISTOR
	SPLIT WIRE DUPLEX
	QUADRAPLEX (DOUBLE DUPLEX)
	COMB. SWITCH / RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	SPECIAL PURPOSE (AS NOTED)
	TELEVISION OUTLET
	MOTOR OUTLET
	eto - switched thermal overload
	TELEPHONE TERMINAL
	TELEPHONE OUTLET
	FLOOR MTD. TELEPHONE OUTLET
	COMPUTER OUTLET
	COMB. TELE/COMPUTER OUTLET
	TOGGLE SWITCH
	p-switching pilot light
	2-2 pole keyed
	3-3 way to-thermal overload
	4-4 way timer
	WALL MOUNTED LIGHTING CONTROL DEVICE RE: LIGHTING CONTROL DEVICE SCHEDULE
	CEILING MOUNTED LIGHTING CONTROL DEVICE RE: LIGHTING CONTROL DEVICE SCHEDULE
	THERMOSTAT
	TIME SWITCH
	PHOTOCELL
	PUSH-BUTTON STATION
	SAFETY SWITCH
	MOTOR STARTER / LIGHTING CONTACTOR
	COMBINATION MOTOR STARTER RELAY
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	PULL STATION
	HORN
	HORN / LIGHT COMBINATION
	HORN / STROBE
	STROBE
	BELL
	OS & Y VALVE
	FLOW SWITCH
	ROOM DETECTOR (SMOKE)
	ROOM DETECTOR (THERMAL)
	DUCT DETECTOR
	REMOTE INDICATING LIGHT / TEST SWITCH
	DOOR HOLDER
	CHIME
	FUSED SWITCH
	CIRCUIT BREAKER
	GROUND CONNECTOR
	MECHANICAL EQUIPMENT
	DETAIL NOTE
	KITCHEN / MEDICAL EQUIPMENT
	EXISTING TO REMAIN
	EXISTING TO BE RELOCATED
	EXISTING TO BE DEMOLISHED



DIMMER SCHEDULE

SW LEG	DIMMER	CIRCUIT
a	300	L1K-8
b	150	L1K-10
c	150	L1K-10
d	600	L1K-16
f1	1000	L1K-14
f2	600	L1K-14
g1	300	L1K-12
g2	300	L1K-12
h	300	L1K-12
j	150	L1K-18
k	150	L1K-18
m	150	L1K-18
n	300	L1K-16
o	MLV	L1K-16
p	ELV	L1K-8
q	ELV	L1K-8
r1	SW	L1K-24
r2	SW	L1K-24
r3	SW	L1K-24
s1	SW	L1K-28
s2	SW	L1K-30
s3	SW	L1K-32
s4	SW	L1K-34
s5	SW	L1K-26
s6	SW	L1K-26
t	SW	L1K-20

LIGHTING CONTROL NOTES

- LIGHTING DESIGN, LAYOUT AND FIXTURE PLACEMENTS IS FOR SCHEMATIC PURPOSES ONLY; E.C. SHALL FIELD VERIFY AND COORDINATE THE EXACT LOCATION, LAYOUT, CONFIGURATION, CONNECTION REQUIREMENTS AND LABELING OF ALL FIXTURES AND CONTROLS PRIOR TO ROUGH-IN.
- LIGHTING CONTROL SYSTEM TO BE SLIDE DIMMERS (EC TO COORDINATE WITH ARCHITECT WALL SPACE REQUIREMENTS).
 - DIMMER AND SWITCHES SHALL BE LUTRON SLIDE TYPE (NOVA SERIES). DIMMERS SHALL ALL BE 0-10 VOLT TYPE OR RESISTIVE (WATTAGE AS SHOWN). LUTRON CL SERIES TO BE USED FOR LED LOADS AS NOTED. DO NOT REMOVE FINS. USE AT FULL CAPACITY.
 - COORDINATE LOW VOLTAGE DIMMER TYPE AND CAPACITY WITH LIGHTING MANUFACTURER.
 - KEEP MINIMUM SEPARATIONS OF 1/2" HORIZONTAL & 4-1/2" VERTICAL TO PREVENT OVERHEATING.
 - EACH DIMMER SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE. THE DIMMER NAMES SHALL BE DETERMINED BY THE RESTAURANT MANAGER, APPROX ONE WEEK AFTER TURNOVER.
- THE E.C. SHALL VERIFY THE COMPATIBILITY OF DIMMING DEVICES AND FIXTURES WITH THE FIXTURE MANUFACTURER.
- INSTALLATION AND OPERATION OF DIMMING DEVICES AND FIXTURES SHALL CARRY A FIVE YEAR WARRANTY.
- COORDINATE NEON SIGNAGE AND LIGHTING SWITCHING WITH OWNER BEFORE INSTALLATION. SWITCHES PROVIDED BY EC.
- MOUNT EACH DIMMER IN ITS OWN BOX. KEEP MINIMUM SEPARATIONS AS SHOWN TO PREVENT DIMMER OVERHEATING.
- NEON SWITCH CONTROLS SUPPLIED BY EC
- FINAL DIMMER CONFIGURATION TO BE COORDINATED WITH SPACE AVAILABLE.

LIGHTING CONTROL LEGEND

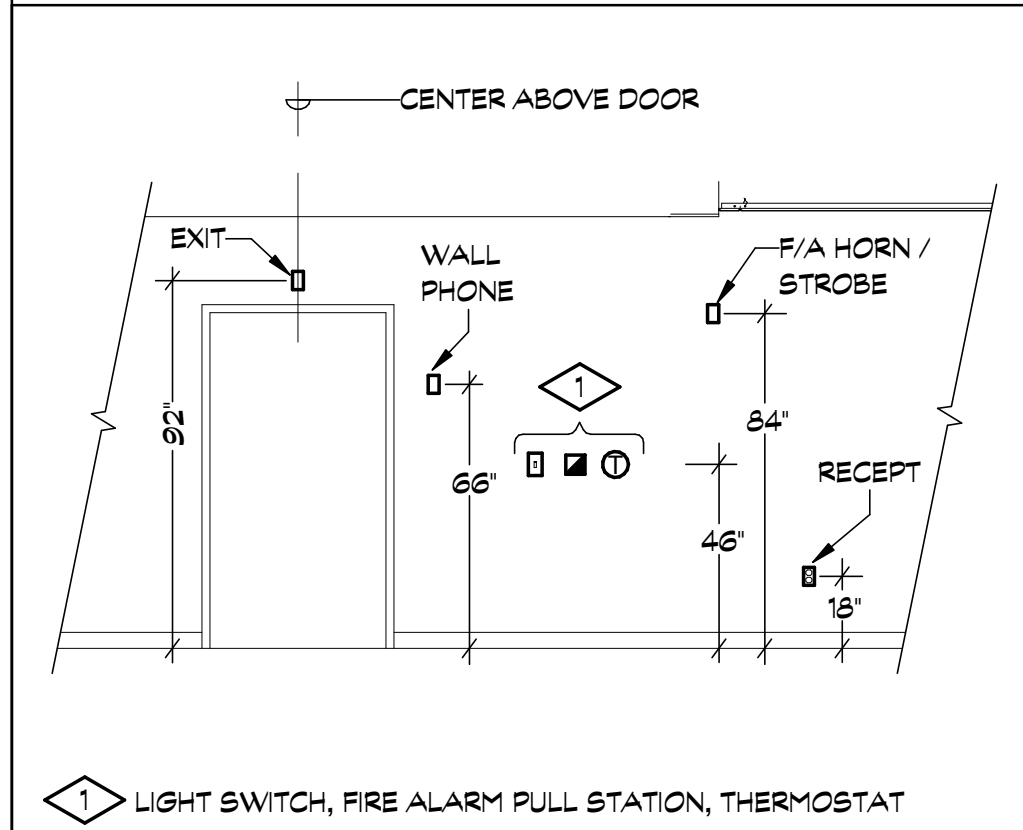
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TELEPHONE ONE LINE

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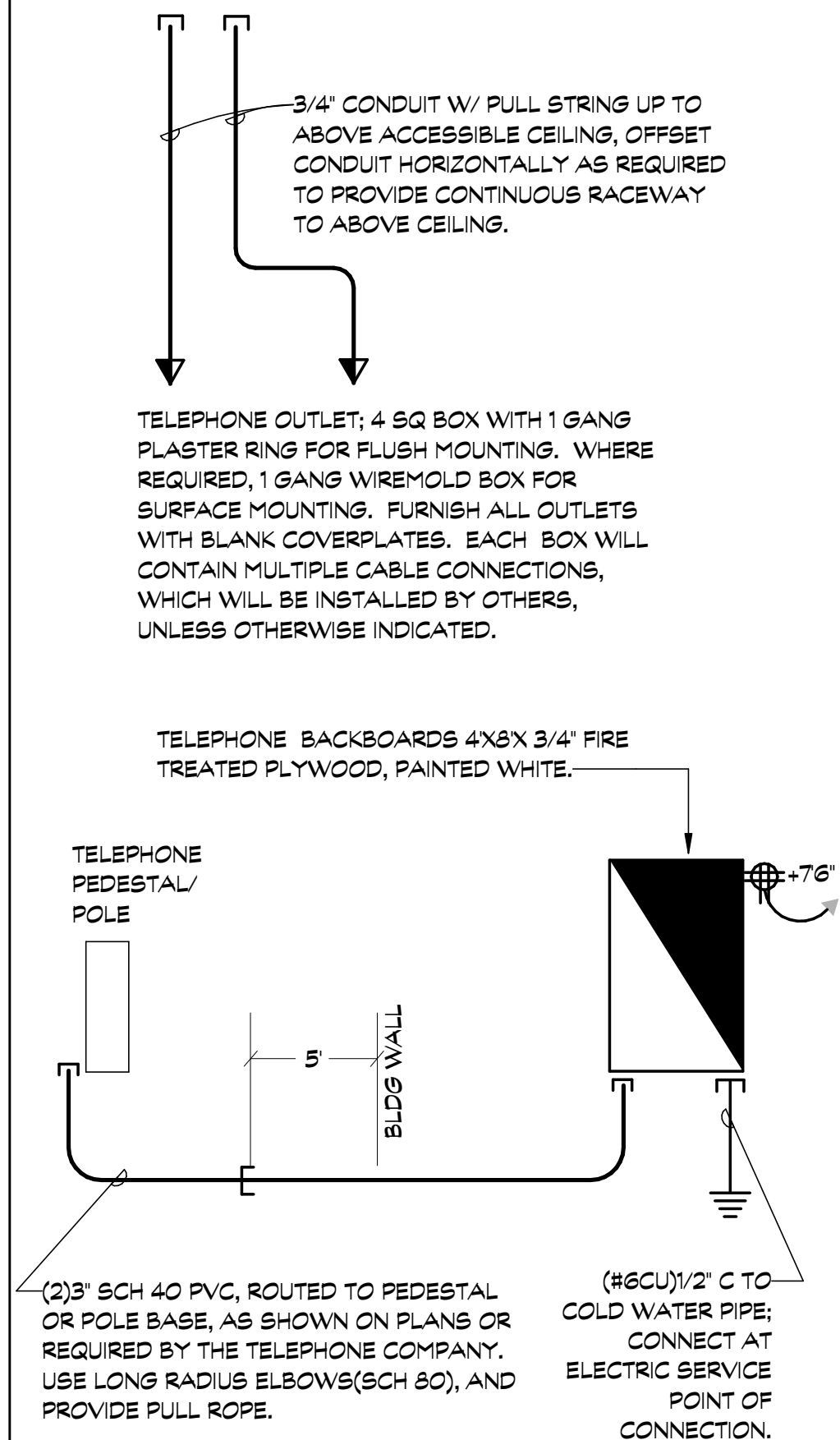
NOTE: VERIFY ALL ELEVATIONS W/ ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

NTS

3

DEVICE MOUNTING ELEVATIONS

PROVIDE ALTERNATE PRICE TO REPLACE STRAIGHT VERTICAL CONDUIT RUNS AND BOXES WITH PLASTER RINGS AND PULLSTRINGS.



NTS

2

TELEPHONE ONE LINE

CIRCUIT DESCRIPTION		L	T	R	P	BT	A	B	C	BT	P	T	R	L	CIRCUIT DESCRIPTION				
1A - WALK-IN COMPRESSOR	K	30	2	5	3		1440	128				2	5	1	20	L	1C - WALK-IN (20V)		
1B - WALK-IN EVAPORATOR	K	20	1	5	5			1440	0			4	5	1	20	--	SPARE		
3 - LOW TEMP WAREWASHER	K	20	1	5	7		1440	488				8	5	1	20	L	SPARE		
12 - REACH-IN FREEZER	K	20	1	5	9			540	800			10	5	1	20	L	DINNING LIGHTING		
24 - FRYER	K	20	1	5	11				180	600		12	5	1	20	L	DINNING LIGHTING		
CONV. RECEPITS - KITCH.	K	20	1	5	13		180	1280				14	5	1	20	L	DINNING LIGHTING		
CONV. RECEPITS - KITCH.	K	20	1	5	15				1921	1240		16	5	1	20	L	DINNING LIGHTING		
14 - MIXER	K	20	3	5	17		1921	488				18	5	1	20	L	DINNING LIGHTING		
15 - ICE MAKER	K	20	1	5	19							20	5	1	20	L	KITCHEN LIGHTING		
23 - DOUBLE OVEN	K	20	1	5	21				1284	1200		22	5	1	20	L	SIGNAGE		
SHUNT TRIP SPACE	--	--	--	--	--		1200					24	5	1	20	L	RESTROOM LIGHTING		
SHUNT TRIP SPACE	--	--	--	--	--			240	600			26	5	1	20	L	INTERIOR SIGNAGE		
SHUNT TRIP SPACE	--	--	--	--	--					600		30	5	1	20	L	SHOW WINDOW		
33 - PIZZA PREP REF.	K	20	1	5	31		1008	600				32	5	1	20	L	SHOW WINDOW		
55 - 88 DISHWASHER	K	20	1	5	33			1920	600			34	5	1	20	L	SHOW WINDOW		
66 - 88 COOLER	K	20	1	5	35				864	500		36	5	1	20	L	HEAT LAMPS		
37 - PIZZA OVEN	K	80	3	5	37		6748	180				38	5	1	20	L	INVERTER		
A/V CIRCUIT	R	20	1	5	43		380	500				40	5	1	20	R	TV POWER		
A/V CIRCUIT	R	20	1	5	45			380	1920			42	5	1	20	R	TV POWER		
OFFICE POWER	R, L	20	1	5	47				1144	240		44	5	1	20	R	5WH		
RESTROOM POWER	R, L	20	1	5	49		680	240				46	5	1	20	K	#10 - DISPOSER		
CONV. RECEPITS - BAR	R	20	1	5	51				1080	0		48	5	1	20	--	HOOD CONTROLS		
CONV. RECEPITS - DINNING	R	20	1	5	53					540	0	54	5	1	20	--	FIRE SUPPRESSION		
PLUG MOLD	R	20	3	5	57		55	721	0			56	5	1	20	--	SPARE		
MUA 1	M	20	3	5	63		61	0	0			58	5	1	20	--	SPARE		
SPACE	--	--	--	--	--		65					64	5	1	20	--	SPARE		
FC 2 (E)	M	20	2	5	69		67		980	--		68	1	--	--	KEY 1	SPACE		
FC HEAT (E)	M	60	2	5	71		73	4800	--			70	1	--	--	SPACE	SPACE		
FC HEAT (E)	M	60	2	5	75		75		4800	--		72	1	--	--	SPACE	SPACE		
FC 1 (E)	M	20	2	5	77		77	4800	2534			74	1	--	--	SPACE	SPACE		
HP 1 (E)	M	60	2	5	79		79	4800	2534			76	1	--	--	HP 1 (E)	HP 1 (E)		
HP 2 (E)	M	20	2	5	81		81		980	2534		78	1	--	--	HP 2 (E)	HP 2 (E)		
HP 2 (E)	M	20	2	5	83		83		980	2534		80	1	--	--	HP 2 (E)	HP 2 (E)		
TOTAL LOAD:		31.71 kVA		32.57 kVA		30.77 kVA													
TOTAL AMP:		265 A		273 A		256 A													

LOAD TYPE	CONNLOAD	DEMAND FACT.	EST. DEMAND	BREAKER TYPE	PANEL TOTALS
LIGHTING - L	11.86 kVA	125%	14.82 kVA	SHUNT TRIP - ST	TOTAL CONN. LOAD: 95.04 kVA
RECEPTACLE - R	7.82 kVA	100%	7.82 kVA	GFCI - G	
MOTOR - M	35.15 kVA	107%	35.55 kVA	HANDLE BLOCK - H	TOTAL CONN.: 284 A
KITCHEN - K	42.19 kVA	85%	27.42 kVA	HANDLE TIE - T	TOTAL EST. DEMAND: 238 A
OTHER - O	0 kVA	0%	0 kVA	AFC - A	
EXISTING - E	0 kVA	0%	0 kVA	STANDARD - S	
NEC-220.84				LOCKOUT - L	

SHORT CIRCUIT CALCULATION

LOCATION	SECONDARY VOLTAGE	Ø	kVA	%Z	sec AVAIL	'M'	sec FAULT
TRANS	I 80	208	3	1000	5.32	2776	18.8 52200

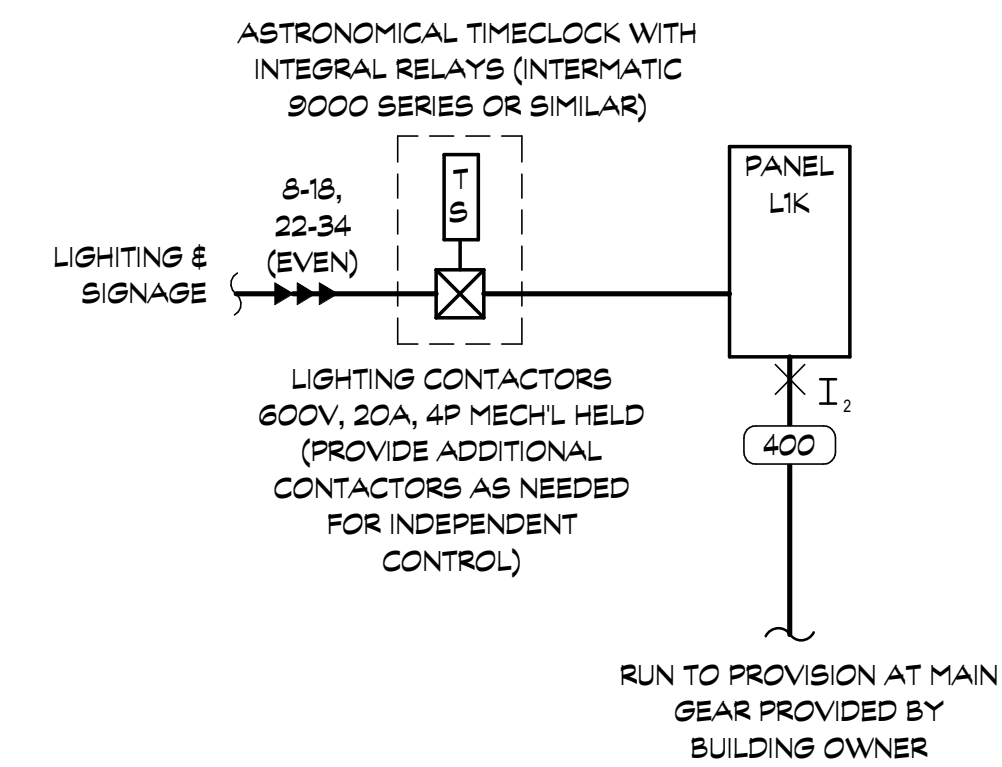
LOCATION	VOLT.	Ø	WIRE TYPE	CONDUIT TYPE	WIRE SIZE	#OF RUNS	LENGTH	'C' VALUE	sec AVAIL	'F'	'M'	sec FAULT
MDC	I 1	208	3	AL	MET	500	2	80	18755	82200	0.927	0.519 27088
L1K	I 2	208	3	AL	MET	250	2	15	12122	27088	0.140	0.878 23771

NOTES: SWITCHBOARDS, PANELBOARDS AND LOAD CENTERS ARE TO BE FULLY RATED AS SHOWN. PROVIDE A DEDUCT PRICE TO USE SERIES RATED EQUIPMENT AND PROVIDE THE TESTED COP COMBINATION USED TO OBTAIN THE SERIES RATING. ALL EQUIPMENT TO HAVE PERMANENTLY ATTACHED LABELING PROVIDED BY THE EQUIPMENT MANUFACTURER AND INSTALLER PER NEC 110.22 AND 240.86 (B). PROVIDE MARKINGS ON ALL SERVICE EQUIPMENT WITH MAXIMUM CALCULATED FAULT CURRENT PER NEC 110.24. *AVAILABLE FAULT CURRENT AT TRANSFORMER CALCULATED BASED ON 1/2 FROM UTILITY COMPANY DESIGN STANDARDS. IF TRANSFORMER SIZE IS OTHER THAN SHOWN, NOTIFY ENGINEER.

WIRING LEGEND

400	2[(4-250)CM AL, #3 CU 5/2-1/2"]
2000A	7[(4-500)CM AL, #4"]
	(3/0 CU)3/4" C TO BLDG STEEL, COLD WATER PIPE, CONCRETE ENCASED
5	ELECTRODE, 2[(#8CU)1/2"] TO DRIVEN GROUND RODS NOT LESS THAN 60 APART

*GROUND BASED ON SUPPLY-SIDE BONDING JUMPER NEC 250.28(D)(2)
 *GROUND BASED ON OVERCURRENT DEVICE AHEAD OF TAP FEEDER PER NEC 250.122(G)



NTS

1

ELECTRICAL ONELINE DIAGRAM



FIELD VERIFICATION - VERIFY ALL FIELD DIMENSIONS AND CONDITIONS WITH THE SITE AND REPORT ANY DISCREPANCIES, ERRORS OR OMISSIONS TO TRAPP ARCHITECTURE PRIOR TO CONSTRUCTION OR CONSTRUCTION START. ALL FIELD VERIFICATION SHALL BE BASED ON EXISTING DRAWINGS AND MAY NOT BE CURRENT TO THE BUILT CONDITIONS OF THE SITE.
 TRAPP ARCHITECTURE SHALL RETAIN ALL STATUTORY, COMMON LAW AND OTHER RESERVED RIGHTS. THESE DRAWINGS AND RELATED DOCUMENTS SHALL NOT BE DUPLICATED, DISCLOSED OR RELATED WITHOUT WRITTEN CONSENT OF TRAPP ARCHITECTURE.

SECTION 26-01 - ELECTRICAL

SECTION 26 01 00 - GENERAL PROVISIONS

- 1.01 WORK INCLUDED: A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services... 1.02 CODES AND REGULATIONS: A. Comply with state and local codes, and utility company regulations... 1.03 EQUIPMENT AND MATERIALS STANDARDS: A. Equipment and materials shall be new, UL-listed for the use intended... 1.04 CONTRACT DRAWINGS: A. Illustrate the general design and extent of performance required... 1.05 SHOP DRAWINGS: A. Submit products data and/or shop drawings as required by the Architect... 1.06 WARRANTY: A. The contractor shall be responsible for the successful operation of electrical systems... 1.07 PRODUCT HANDLING AND CLEAN UP: A. Equipment shall be left clean and undamaged... 1.08 CUTTING AND REPAIRING: A. The contractor shall be responsible for all cutting, drilling, welding... 1.09 OPERATING AND MAINTENANCE DATA: A. Provide the Owner with operating and maintenance instructions... 1.10 PERMITS: A. The contractor shall pay for all fees, taxes, secure permits... 1.11 TEMPORARY SERVICES: A. Provide temporary power and lighting as required by the General Contractor... 1.12 COORDINATION: A. Coordinate outlet device and equipment locations with the Architectural Plans... B. Mechanical work performed by this contractor will conform to the standards of Division 21-23... C. The general guideline for the division between control(MC) wiring and power wiring... D. Examine the site and become aware of existing conditions, utilities... 1.13 DELIVERY, STORAGE, HANDLING: A. Provide necessary hauling and hoisting equipment... 1.14 AS-BUILT DRAWINGS: A. Keep a current set of "as-built" drawings on site... 1.15 PROJECT/SITE CONDITIONS: A. Visit the site to become familiar with location and the various conditions affecting the work... 2.01 ACCESS PANELS: A. The electrical Contractor shall furnish and General Contractor shall install access panels... 3.01 EXCAVATION AND BACKFILLING: A. Verify the location of underground utilities before excavation... 3.02 START-UP PROCEDURES: A. Follow manufacturer's recommended procedures in starting up the equipment... 3.03 HANGERS AND SUPPORTS: A. Support conduit and equipment from the structure to prevent sagging... B. Conduit on the roof will be supported above the roof on roof pads... 3.04 SLEEVES AND PLATES: A. Provide sleeves and inserts for all conduit... B. Drill holes as required for the installation of hangers... C. Where sleeves are placed in exterior walls below grade... D. Seal all piping passing through fire-rated construction with approved material

with a U.L. listed assembly compatible with the wall or floor assembly being penetrated.

SECTION 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

- 1.01 GENERAL: A. Provide complete systems of conductors and raceways using conduit and/or cable assemblies... 2.01 CONDUIT: A. The following raceways are approved for use on this project... 2.02 CABLE ASSEMBLIES: A. The following cable assemblies may be used in the power distribution system... 2.03 BOXES: A. Provide galvanized steel outlet and junction boxes... 2.04 CONDUCTORS: A. Provide a complete set of power conductors, rated 600 volts... 2.05 INSULATION: A. Provide wire with the following minimum insulation standards... 2.06 LUGS: A. Lugs for all equipment will be rated for the use... 2.07 SWITCHES AND RECEPTACLES: A. Provide specification grade devices throughout... 2.08 DIMMERS: A. Incandescent dimmers shall be the linear slide-type with aluminum fins... 3.01 WIRING: A. The drawings are schematic in nature; alternative wiring paths, different conduit fill... B. Branch circuits shall use minimum No. 12 AWG wiring... C. Use PVC in earth or in slabs in contact with earth... D. Where mechanical damage occur, use galvanized rigid steel... E. Electric metallic tubing may be used in all applications... F. Do not install exposed conduit in areas open to the public... G. Direct burial wiring shall not be used... H. Use flexible metallic conduit for connections to motors... I. Provide a ground wire in non-metallic conduit... J. Circuits fed through AFCI breakers shall have separate neutrals... K. Multi-wire branch circuits shall utilize handle ties... 3.02 OUTLET BOXES, DEVICES AND FITTINGS: A. Install receptacle and telephone outlets 18" to center-line above floor... B. Install receptacles vertically, ground pole down... C. Install switch outlets 46" to center-line above floor on latch side of door... D. Install outlets shown on the drawings "back-to-back" with a minimum of 6" lateral separation

SECTION 26 20 00 - SERVICE AND DISTRIBUTION

- 1.01 SERVICE ENTRANCE: A. Power will be available from the secondary side of transformer(s) provided by the utility company... 1.02 GROUNDING: A. Provide a complete grounding system in accordance with Section 250 of the N.E.C... 2.01 SAFETY SWITCHES: A. Provide normal duty, enclosed, fusible and non-fusible safety switches... 2.02 FUSES: A. Provide power fuses of the time-delay type unless otherwise indicated... 3.01 WIRING FOR EQUIPMENT: A. Provide branch circuits, feeders, junction boxes, disconnect switches... B. Kitchen equipment. Refer to the Kitchen Equipment Contractor's drawings... C. Provide connections to hood fire suppression system(s)... 3.02 EXTERIOR LIGHTING FIXTURES: A. Provide weather-proof luminaires for mounting as shown... 2.01 INTERIOR LIGHTING FIXTURES: A. Securely support and anchor fixtures and outlet boxes... 2.02 EXTERIOR LIGHTING FIXTURES: A. Exterior lighting fixtures, raceways, equipment, etc. shall be weather-proof and suitable... B. Ballast type, lamp wattage, and rated voltage shall be as indicated on the plans... 2.03 LAMPS: A. Incandescent lamps shall be rated at 130V. H.I.D. and fluorescent lamps shall be as specified... B. In porcelain keyless fixtures, provide medium base, self-ballasted, A-line shape... 2.04 DRIVERS: A. LED drivers shall be electronic-type, labeled as compliant with radio frequency interference... B. Dimmable LED drivers shall be 0-10V type... C. Ballasts and drivers shall be rated for the ambient temperatures... 2.05 INDOOR LIGHTING CONTROLS: A. Provide occupancy and time-clock based lighting control system... B. Occupancy of operations: 1. Occupancy control areas(All interior areas): a. Lights will be turned on with occupancy detection... 2.06 OUTDOOR LIGHTING CONTROLS: A. Provide astronomical time switch, lighting control system as shown on drawings... B. Set time clock(s) to operate contacts as scheduled hours by Owner... C. Time clock shall be astronomical seven day programmable type... DIVISION 27 - COMMUNICATIONS SECTION 27 20 00 - COMPUTER SYSTEM 1.01 DESCRIPTION: A. Provide a complete system of raceways, pull boxes, outlet boxes... 2.01 CONDUIT: A. Conduit in the building shall be galvanized EMT, with plastic bushings... 2.02 WALL OUTLETS: A. Wall outlets shall be 4" square pressed steel boxes... B. Provide an alternate price for plaster rings at outlet location... 2.03 WIRING: A. Wiring shall be provided by the computer system installer... 3.01 EXECUTION: A. Provide pull strings in all conduit... B. Field verify all computer outlet locations... SECTION 27 30 00 - TELEPHONE SYSTEM 1.01 DESCRIPTION: A. Provide a complete system of raceways, pull boxes, outlet boxes... B. System will include exterior underground conduit... 2.01 CONDUIT: A. Conduit in the building shall be galvanized EMT... B. Wall outlets shall be 4" square pressed steel boxes... 2.02 TERMINALS: A. Telephone terminals shall be constructed of 1/2" thick, fire resistant... 2.03 WIRING: A. Wiring shall be provided by the telephone system installer... 3.01 EXECUTION: A. Provide pull strings in all conduit... B. Exterior underground conduit shall use long radius, sweep ell... C. Field verify all telephone outlet locations... SECTION 27 40 00 - VIDEO SYSTEM 1.01 DESCRIPTION: A. Provide a complete system of raceways, pull boxes, outlet boxes... 2.01 CONDUIT: A. Conduit in the building shall be galvanized EMT... B. Exterior underground conduit shall be schedule 40 PVC... 2.02 WALL OUTLETS: A. Wall outlets shall be 4" square pressed steel boxes... B. Terminal shall contain one type F connector... 2.03 WIRING: A. Wiring shall be provided by the video system installer... 3.01 EXECUTION: A. Provide pull strings in all conduit... B. Exterior underground conduit shall use long radius, sweep ell... C. Field verify all television outlet locations... DIVISION 28 - ELECTRONIC SAFETY AND SECURITY SECTION 28 10 00 - SECURITY ALARM SYSTEM 1.01 DESCRIPTION: A. Provide a complete door security alarm system to audibly and visually annunciate door entry... 2.01 ANNUNCIATOR PANEL: A. The annunciator panel shall be comprised of (3) 4 door modules... 2.02 CONTROL UNIT: A. The control unit shall include a volume control and be configured for pulsating alarm signal... 2.03 DOOR CONTACTS: A. Door contacts shall be normally closed mechanical door contacts... 2.04 WIRING: A. Wiring shall be low voltage 18 AWG, run per the manufacturers instructions... 2.05 MANUFACTURER: A. The equipment shall be manufactured by Auth-Florence, Dukane or approved equivalent... 3.01 EXECUTION: A. Install the security alarm system in accordance with the manufacturers instructions... SECTION 28 30 00 - FIRE ALARM SYSTEM 1.01 GENERAL: A. Add, remove, move or change devices as required to provide a fire alarm system... B. Provide equipment manufactured by Simplex Time Recorder Company... 1.02 CODES AND REGULATIONS: A. Fire Alarm system shall comply with NFPA 72(2013 edition)... 2.01 MANUAL PULL STATIONS: A. Manual pull stations shall be double action type made of red lexan with raised white letter... 2.02 SMOKE DETECTORS: A. Smoke Detectors shall be a dual-chamber, photoelectric type detectors... B. The detectors shall be Simplex 4098 Series or equivalent... 2.03 ALARM HORN/ STROBE: A. Alarm horn/ strobe shall be combination devices... B. The alarms shall be Simplex 4903 Series or equivalent... 2.04 ALARM STROBE: A. Alarm strobe shall be a xenon flashtube... B. The alarms shall be Simplex 4904 Series or equivalent... 2.05 REMOTE ALARM INDICATORS: A. Remote alarm indicators shall be provided for detectors... B. The alarms shall be Simplex series 2098 or equivalent... 2.06 AUTODIALER: A. Install and wire an auto dialer unit for communication to a central station... 2.07 MONITOR MODULE: A. Provide an addressable monitor module for supervision of waterflow and tamper switches... 2.08 WIRING: A. Provide a complete system of raceways, pull boxes, and outlet boxes... 3.01 INITIATION: A. Upon the operation of any manual pull station or automatic initiating device... 3.02 SYSTEM REPRESENTATIVE: A. All system representative shall be an authorized engineered systems distributor... 3.03 REMOTE INDICATING LIGHTS: A. Remote indicating lights shall be provided for existing detectors... 3.04 COMPONENT PROTECTION: A. Provide a wire guard over any detector or horn in an area susceptible to physical damage...

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Urban Fields
Project Type: Alteration

Construction Site: 485 2nd Ave
Owner/Agent: Longmont, Colorado 80501
Designer/Contractor:

Table with columns: Area Category, B Floor Area (ft2), C Allowed Watts / ft2, D Allowed Watts. Row 1: Dining: Family, 2521, 0.78, 1966. Total Allowed Watts = 1966.

Proposed Interior Lighting Power

Table with columns: Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast, B Lamps/ Fixture, C # of Fixture, D Watt. Rows for Dining: Family (2521 sq. ft.) including LED A1, LED A2, LED A3, LED A4, LED A5, LED A6, LED A7, LED F1/F1E, LED F2, LED F3, LED F4, LED F5, LED L1, LED V1, Track Lighting: T1/T2.

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application...

Ethan Miley, PE Name - Title Signature Date 09/13/2021

T R A P P A T E S L T D
ASSOCIATES LTD
4185 AUTUMN CT. BOULDER, CO 80504-303415.0008

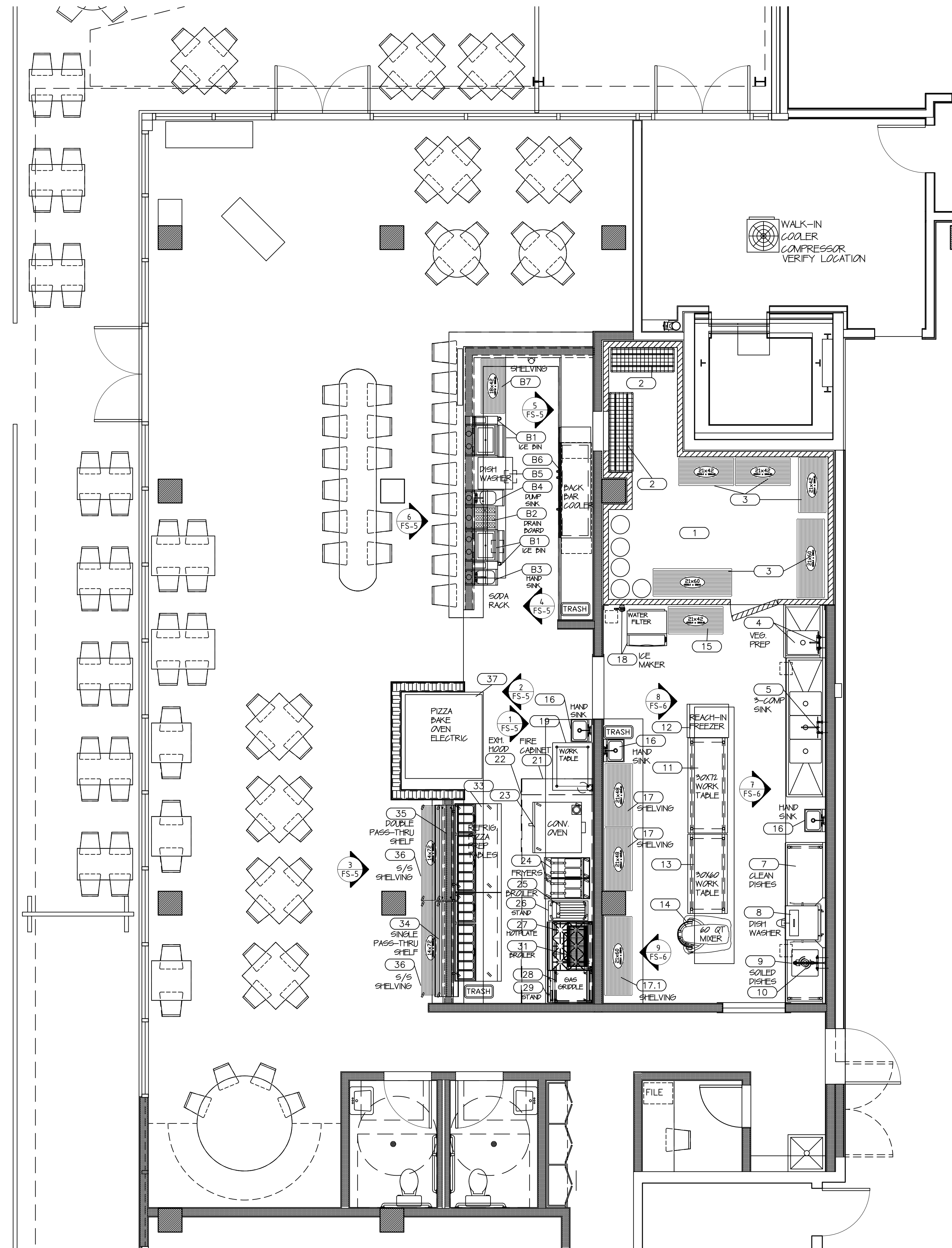


FIELD VERIFICATION - VERIFY ALL FIELD DIMENSIONS AND CONDITIONS WITH THE SITE AND REPORT ANY DISCREPANCIES, ERRORS OR OMISSIONS TO TRAPP ARCHITECTURE PRIOR TO CONSTRUCTION OR PERMITTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS BASED ON EXISTING DRAWINGS AND MAY NOT BE CURRENT TO THE DATE OF THE VERIFICATION. TRAPP ARCHITECTURE SHALL RETAIN ALL STATUTORY, COMMON LAW AND OTHER RESERVED RIGHTS. THESE DRAWINGS AND RELATED DOCUMENTS SHALL NOT BE DUPLICATED, DISCLOSED OR OTHERWISE USED WITHOUT WRITTEN CONSENT OF TRAPP ARCHITECTURE.

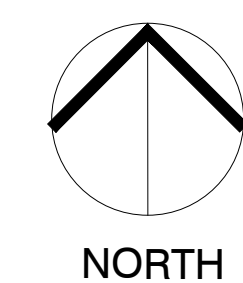
URBAN FIELDS
BLDG #2 S. MAIN STATION
LONGMONT, CO.

SUBMISSIONS:

E3.1 ELECTRICAL SPECIFICATIONS



EQUIPMENT PLAN AND SCHEDULE
SCALE: 1/4" = 1'



EQUIPMENT SCHEDULE					
Item No	Qty	Equipment Category	Manufacturer	Model Number	Equipment Remarks
1	1	Cooler, Walk-In	Arctic Industries	Fabricated	w/ Pre-assembled Remote Comp
2	1	Keg Storage Rack	Quantum Foodservice	186054DGY	Two Tier, Epoxy finish
3	3	Shelving, Wire	Quantum Foodservice	WR74-2142BK	Epoxy finish
	2	Shelving, Wire	Quantum Foodservice	WR74-2160BK	Epoxy finish
4	1	Sink, Scullery, 1 Compartment	John Boos & Co.	1B18244-1D18L	w/ Faucet PBF-8-SLF
5	1	Sink, Scullery, 3 Compartments	John Boos & Co.	3B18244-2D24	w/ Faucet PBF-12-SLF
6	1	Spare Number			
7	1	Dishtable, Straight, Clean	John Boos & Co.	JDTC-20-48L	
8	1	Washer, Door Type, Low Temp	Eco-Labs	ES-2000	LEASED BY OWNER
9	1	Dishtable, Straight, Soiled	John Boos & Co.	JDTS-20-48R	w/ Pre-Rinse PB-PRW-1LF-X
10	1	Disposer	InSinkErator	SS-100	
11	1	Table, Work	S/S Fabricated	TBD	BY OWNER
12	1	Freezer, Reach-In	Turbo Air	M3F19-1-N	on Casters
13	1	Table, Work	S/S Fabricated	TBD	BY OWNER
14	1	Mixer, Pizza	Hobart US Foodservice	TBD	BY OWNER
15	1	Shelving, Wire	Verify	TBD	BY OWNER
16	3	Hand Sink	John Boos & Co.	PBHS-W-1410-P-SSLR-X	w/ Faucet & Left & Right Splashes
17	2	Shelving, Wire	Verify	TBD	BY OWNER
17.1	1	Shelving, Wire	Quantum Foodservice	WR74-2160BK	BY OWNER
18	1	Ice Maker w/ Bin	Manitowoc	UYF0310A	w/ Water Filter- Leased
19	1	Table, Work	John Boos & Co.	ST6R1.5-3036GSK-X	
20	1	Spare Number			
21	1	Fire Suppression System	Captive Aire	FS-1	BY MC
22	1	Exhaust Hood	Captive Aire	5430ND-2-PSP-F	BY MC
23	1	Oven, Double Stacked	Imperial	TBD	BY OWNER
24	2	Fryer, Deep Fat, Gas w/Filter	Verify	TBD	BY OWNER
25	1	Broiler, Under-Fired, Gas, Counter	Vollrath	40728	
26	1	Equipment Stand	John Boos	GS6-3015GSK	on Casters
27	1	Hotplate, Countertop, Gas	Southbend	HDO-36	
28	1	Griddle, Countertop, Gas	Southbend	HOG-24-M	
29	1	Equipment Stand	John Boos & Co.	EES8-3060	on Casters
30	1	Spare Number			
31	1	Salamander Broiler, Gas	Southbend	P36-RAD	
32	1	Spare Number			
33	2	Refrigerator, Pizza Prep	Turbo Air	TPR-67SD-N	
34	1	Pass-Thru Shelf, Single	John Boos & Co.	PTS16K-1872	
35	1	Pass-Thru Shelf, Double	John Boos & Co.	PTS26K-1872	
36	2	Solid Stainless Shelving	Quantum Food Service	1472SS	
37	1	Pizza Bake Oven, Deck-Type, Electric	AMPTO	P120E B2X	by the Owner
38	1	Spare Number			
39	1	Spare Number			
40	1	Spare Number			
B1	1	Ice Bin [(1) Future]	Krowne	KR19-24-10	w/ Soda Gun Holder, Cover, & Rail
B2	1	Drain Board	Krowne	KR19-GS18	
B3	1	Hand Sink	Krowne	KR19-1C	w/ Right-Side Splash & Soap/Towel
B4	1	Dump Sink	Krowne	KR24-S12C	w/ Left-Side Splash & Cabinet base
B5	1	Dishwasher	Eco-Labs	OMEGA 5E	Leased By the Owner
B6	1	Back Bar Cabinet, Refrigerated	Krowne	BS84	on Casters
B7	1	Shelving, Wire	Quantum Food Service	1842BK	w/ Epoxy Finish

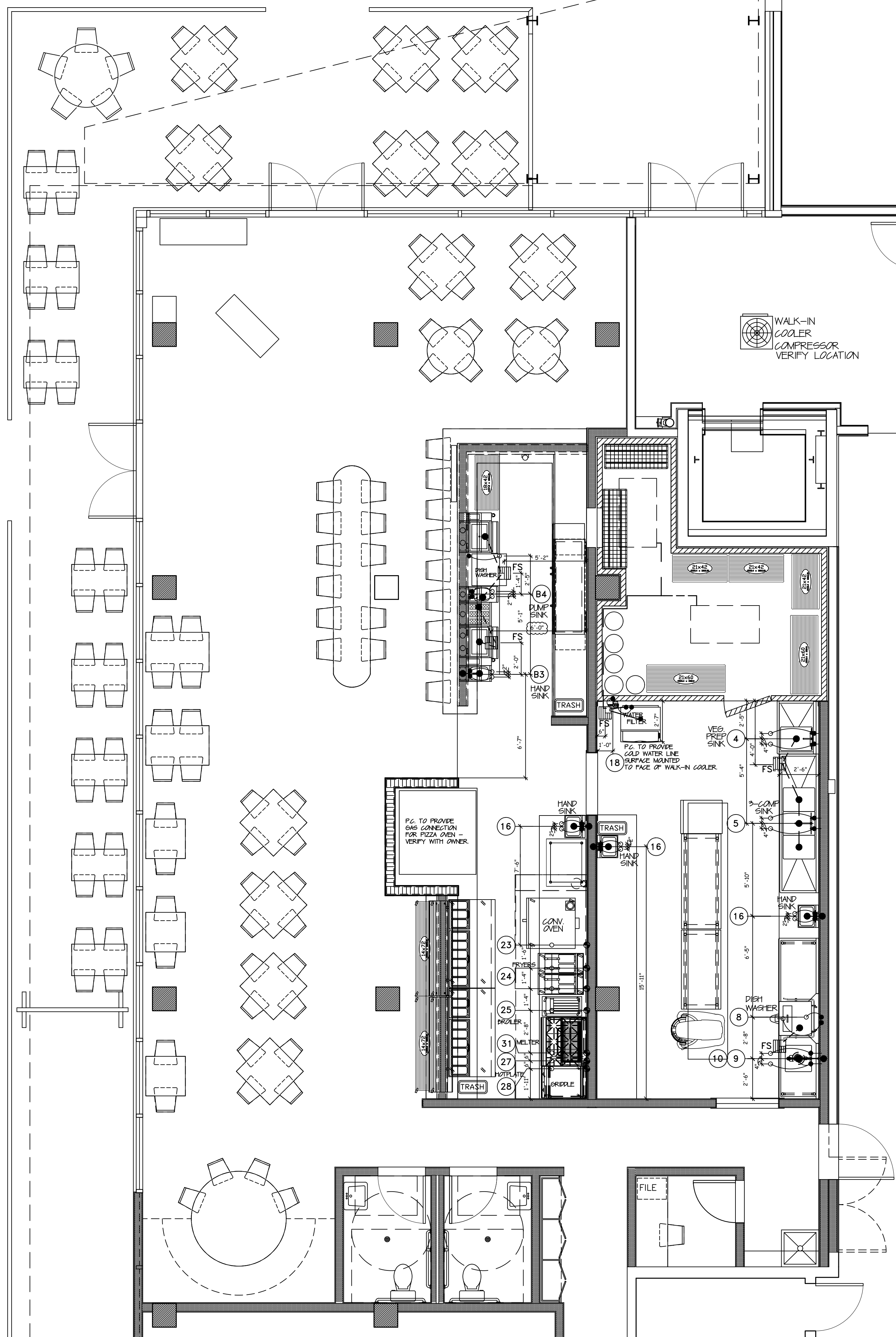
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DATE: 08/25/21
REVISED: 08/16/21
08/09/21

TundraFMP Design Group
3825 Walnut Street, Boulder, CO 80501
(303) 440-1142, Fax: 7219
TUNDRAFMP
DESIGN GROUP

URBAN FIELD PIZZA AND MARKET
150 MAIN ST, 202
LONGMONT, COLORADO

CONSTRUCTION
DRAWINGS

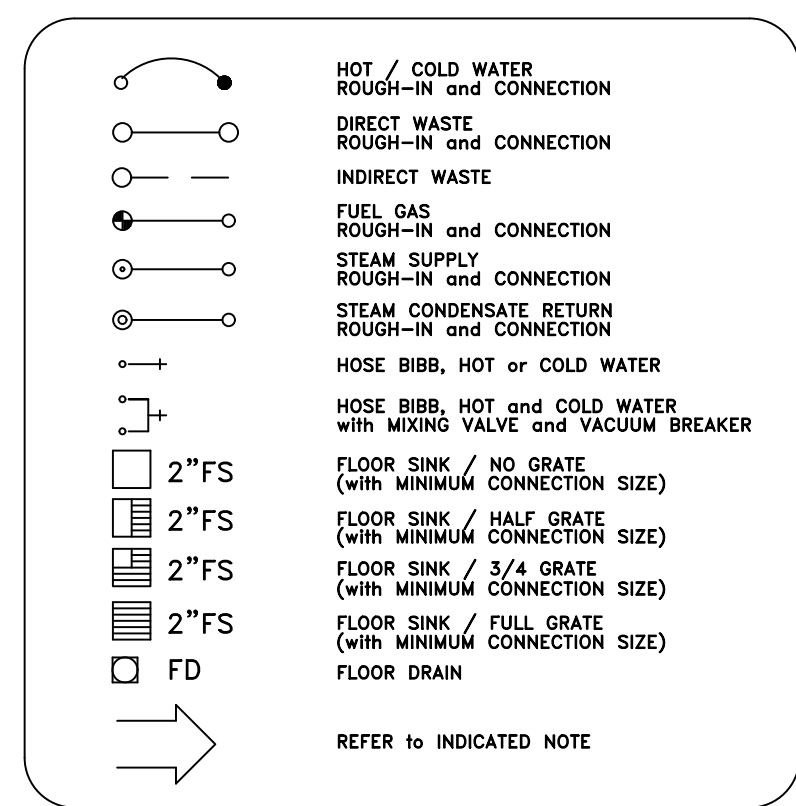
SHEET NO.
FS.1
PROJECT NO.
508-21



PLUMBING PLAN AND SCHEDULE
SCALE: 1/4" = 1'

Item No	Qty	Equipment Category	Cold Water Size (in)	Cold Water AFF (in)	Hot Water Size (in)	Hot Water AFF (in)	Direct Drain Size (in)	Direct Drain AFF (in)	Indir Drain Size (in)	Gas Size (in)	MBTUH	Gas AFF (in)	Plumbing Remarks
1	1	Cooler, Walk-in							1				
4	1	Sink, Scullery, 1 Compartment	0.5	18	0.5	18			2				DRAIN TO FLOOR SINK
5	1	Sink, Scullery, 3 Compartments	0.5	18	0.5	18			2				MANIFOLD DRAINS TO FS
8	1	Washer, Door Type, Low Temp			0.75	60			2				REQUIRES 120 DEG WATER
10	1	Disposer	0.5	18			1.5	18					CW TEE OFF PRE-RINSE
16	3	Sink, Hand, Wall Mount	0.5	18	0.5	18			2				
18	1	Ice Maker, Undercounter	0.5	18					0.5				FILTERED H2O, DRAIN TO FS
23	1	Oven, Convection, Gas, Double								0.75	100	10/42	REQUIRES (2) GAS INLETS
24	1	Fryer, Deep Fat, Gas w/Filter								0.75	107	30.0	
25	1	Broiler, Gas, Counter-Top								0.75	28	30.0	
27	1	Hot Plate, Gas								0.75	198	30.0	
28	1	Griddle, Gas								0.75	40	30.0	
31	1	Broiler, Gas								0.75	40	78	
B1	2	Underbar Ice Chest							0.5				DRAIN TO FLOOR SINK
B2	1	Underbar Fillers & Drainboards							1				DRAIN TO FLOOR SINK
B3	1	Underbar Handsink	0.5	31.5	0.5	31.5	1.5	20					
B4	1	Underbar Dump Sink	0.5	31.5	0.5	31.5			1.5				DRAIN TO FLOOR SINK
B5	1	Dishwasher	0.5	16			2.0	8					REQUIRES 120 DEG WATER

- ### PLUMBING NOTES
- ALL ROUGH-INS SHOWN RELATE TO FOOD SERVICE EQUIPMENT ONLY. SEE ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL PLUMBING INFORMATION.
 - PLUMBING ROUGH-IN PLAN IS INTENDED TO SHOW LOCATIONS, HEIGHTS, CONNECTION SIZES, POSITIONS AND LOAD REQUIREMENTS. DIMENSIONS ARE FROM FINISHED SURFACES.
 - FINAL CONNECTIONS TO ALL EQUIPMENT TO BE BY THE PLUMBING CONTRACTOR UNLESS NOTED INCLUDING REQUIRED MATERIALS SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PRESSURE REDUCING VALVES, PIPING, TUBING, ETC.
 - PLUMBING CONTRACTOR TO FURNISH AND INSTALL THE FOLLOWING AS PER CODE:
 - ALL WATER, WASTE, GAS AND STEAM SERVICE TO POINT OF ROUGH-IN AS SHOWN ON PLAN. ROUGH-INS TO STUB 4" (10 CM) OUT OF WALLS AT HEIGHT INDICATED FROM FINISHED FLOOR TO CENTER OF ROUGH-IN. FLOOR ROUGH-INS TO STUB UP 4" (10 CM) ABOVE FINISHED FLOOR OR CURB. ALL FLOOR OPENINGS ARE TO BE SEALED WATERTIGHT.
 - PRESSURE REDUCING AND/OR REGULATING VALVES FOR DISHWASHERS, BOOSTER HEATERS AND ANY OTHER EQUIPMENT REQUIRED BY MANUFACTURER.
 - ALL FLOOR SINKS COMPLETE WITH TOP GRATES AS INDICATED AND REMOVABLE SEDIMENT BUCKETS SET FLUSH WITH FINISHED FLOOR, UNLESS NOTES OR AS PER LOCAL CODES.
 - ALL WASTE LINES, DIRECT OR INDIRECT, EXCEPT AS NOTED, SHALL BE PITCHED DOWNWARD.
 - ALL REQUIRED GREASE TRAPS.
 - VACUUM BREAKERS AS REQUIRED, EXCEPT FOR THOSE PROVIDED WITH DISPOSER.
 - HAND SINKS, SOAP & TOWEL DISPENSERS, WATER FOUNTAINS, MOP SINKS AND RACKS AS REQUIRED.
 - ALL EXPOSED PIPING AND FITTINGS IN THE KITCHEN ARE TO BE S/S OR CHROME PLATED.
 - ALL LINES ROUTED THROUGH EQUIPMENT SHALL NOT INTERFERE WITH THE INTENDED USE AND SERVICING OF EQUIPMENT.
 - DRAIN LINES SHALL STOP 1" ABOVE THE DRAIN AND INCLUDE A P-TRAP.
 - RECOMMEND 3" FLOOR SINKS WHERE 2" INDIRECT DRAINS ARE USED. DOME STRAINERS MUST BE KEPT CLEAR OF DEBRIS TO PREVENT OVERFLOW.
 - THE HOT WATER REQUIREMENTS FOR FOOD SERVICE OPERATIONS IS 140 DEGREES WITH 65 LBS PRESSURE. TEMPERING, PRESSURE, AND MIXING VALVES ARE TO BE PROVIDED BY THE PC AT ALL REQUIRED SINKS TO PREVENT SCALDING.



SCALE: 1/4" = 1'
DATE: 08/25/21
REVISED: 08/04/21, 08/09/21

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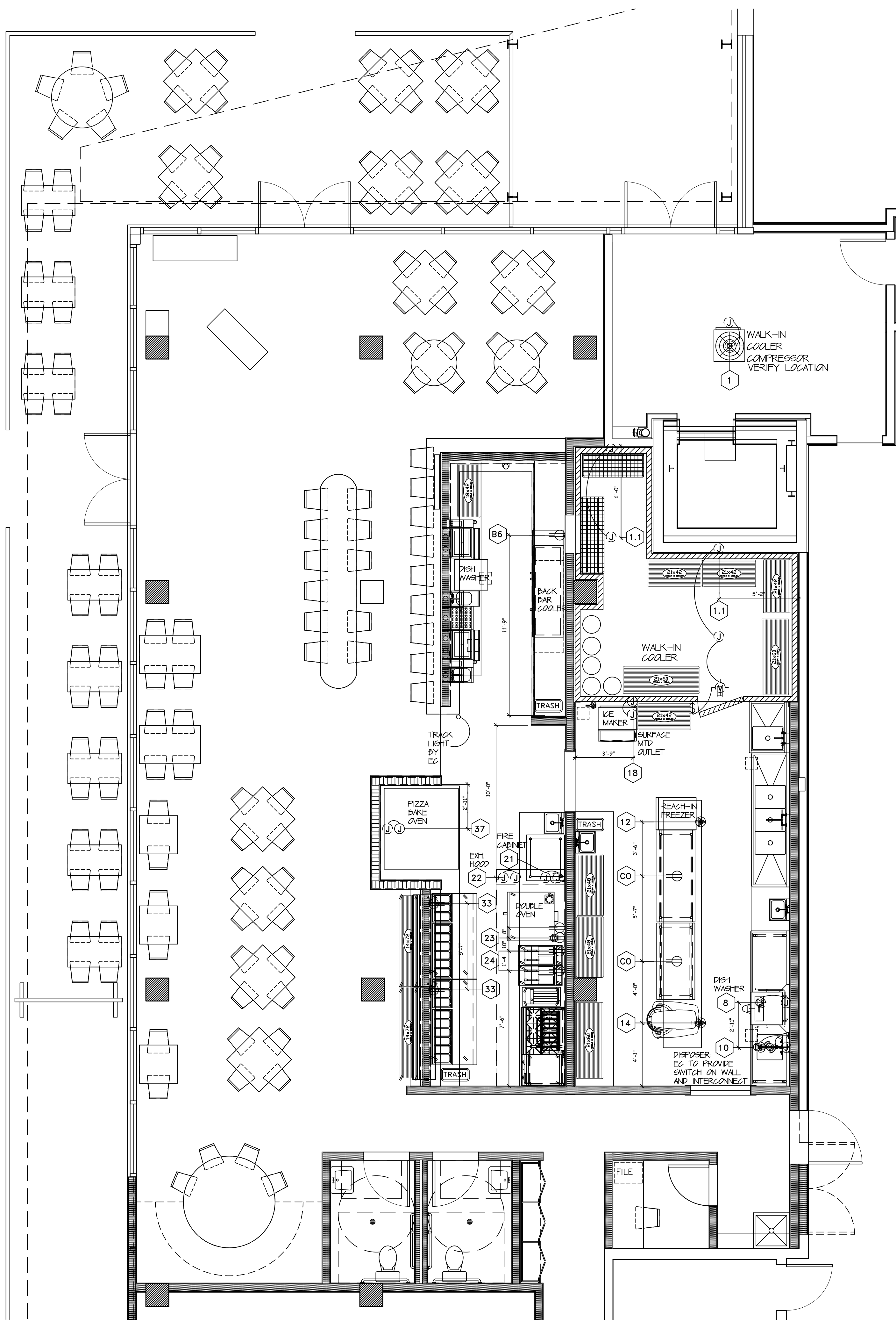
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CONSTRUCTION DRAWINGS

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PROJECT NO.
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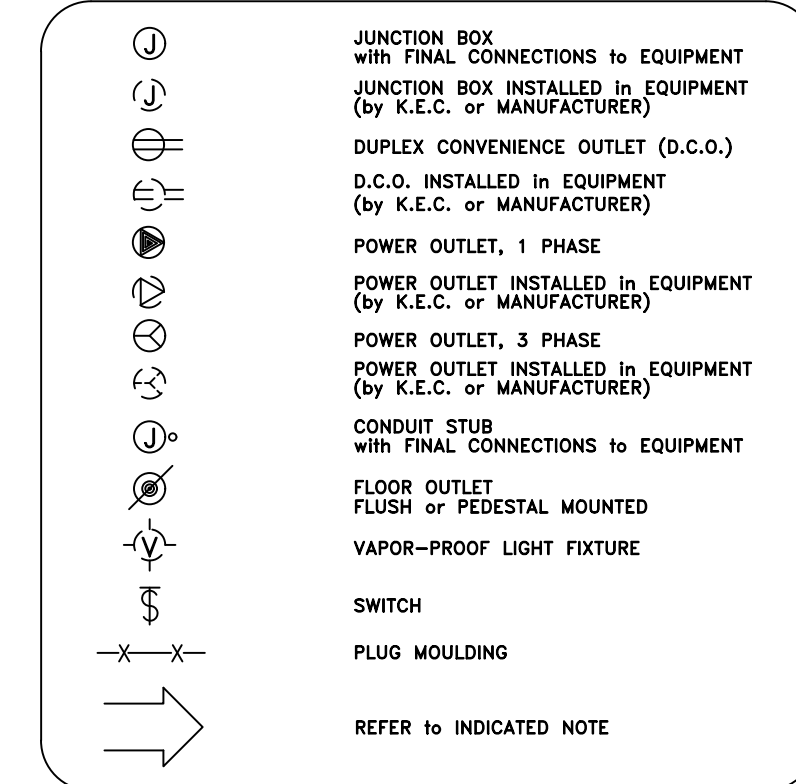
ELECTRICAL PLAN AND SCHEDULE
SCALE: 1/4" = 1'

ELECTRICAL SCHEDULE												
Item No	Qty	Equipment Category	Amps	KW	HP	Volts	Phase	Direct	Plug	NEMA	Electrical AFF (in)	Elec Remarks
1	1	Cooler, Walk-in Compressor	15.0		2.0	208-230	1	X			FA	VERIFY LOCATION ON ROOF
2	2	Evaporator Coil, Cooler	15.0			115						FIELD WIRED BY ELECTRICIAN
1	1	Lights & Door Heater	5.0			115	1	X				FIELD WIRED BY ELECTRICIAN
8	1	Washer, Door Type, Low Temp	12.0		0.75	115	1	X			62	VERIFY WITH PROVIDER
10	1	Disposer	11.6		1.0	115	1	X			12	
12	1	Freezer, Reach-In	4.5		0.3	115	1	X		5-15P	FA	
14	1	Mixer, Pizza	18.0		2.7	200-240	3	X		L5-20P	FA	VERIFY WITH OWNER
18	1	Ice Maker, Undercounter	10.7	1.2	0.75	115	1	X		5-15P	12	
21	1	Fire Suppression										FA VERIFY REQUIREMENTS - BY M.C.
22	1	EXHAUST HOOD										FA VERIFY REQUIREMENTS - BY M.C.
23	1	Double Oven, Convection, Gas	6.0 EA.	0.5	0.5	115	1			5-15P		(2) OUTLETS @ 36" & 60" AFF
33	2	Refrigerator, Pizza Prep	4.2		0.375	115	1	X		5-15P	12	
37	1	Pizza Bake Oven, Deck-Type, Electric	56.2	1.8		208	3	X				FA VERIFY WITH OWNER
CO	2	Convenience Outlets	15.0			115			X			FA TYPE SO CORD WITH RECEPTACLE
B5	1	Dishwasher	16.0		0.75	115						VERIFY WITH PROVIDER
B6	1	Back Bar Cooler			0.3	120	1	X		5-15P	12	

ELECTRICAL NOTES

- ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 3 PHASE, 60 HZ.
- ALL ROUGH-INS SHOWN RELATE TO FOODSERVICE EQUIPMENT ONLY. SEE ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL INFORMATION.
- ALL LOADS INDICATED ARE ACTUAL AND ARE NOT CIRCUIT BREAKER SIZES UNLESS OTHERWISE NOTED.
- ALL CONVENIENCE OUTLETS ARE TO BE SET HORIZONTALLY.
- ALL ROUGH-IN HEIGHTS INDICATED ARE FROM FINISHED FLOOR TO THE BOTTOM OF THE OUTLET. FLOOR ROUGH-INS TO BE STUBBED UP 4" (10 CM) ABOVE FINISHED FLOOR OR CURB. ALL FLOOR OPENINGS ARE TO BE WATER-TIGHT SEALED.
- FINAL CONNECTIONS TO ALL EQUIPMENT TO BE BY THE ELECTRICAL CONTRACTOR, INCLUDING MATERIALS, UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL THE FOLLOWING, AS PER CODE:
 - ALL JUNCTION-BOXES, OUTLETS, COVER PLATES, SWITCHES ETC., NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION BOXES, COVER PLATES ETC., IN DISHROOMS, OR AS INDICATED ON SCHEDULES, MUST BE VAPOR-PROOF.
 - ALL CORDS SHALL BE UL APPROVED AND NEMA RATED.
 - 208V PLUGS AND CORDS AS REQUIRED.
 - DISCONNECTS OR OTHER DEVICES AS REQUIRED BY CODES.
- WHEN APPLICABLE, ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT AND WIRING, INSTALL ELECTRICAL COMPONENTS AND INTERWIRE BETWEEN THE FOLLOWING:
 - A LIGHT FIXTURES, CHANDELIERS ETC., LAMPS AND ALL LIGHT FIXTURES ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS INDICATED ON THE LIGHTING SCHEDULES OR DRAWINGS.

E.C. TO INSTALL OCTAGONAL BOX PROVIDED BY ANSUL DISTRIBUTOR.
E.C. TO RUN 1/2" CONDUIT W/ SWEEP ELBOW ABOVE CEILING



SCALE: 1/4" = 1'
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REVISED: 08/26/21, 09/02/21

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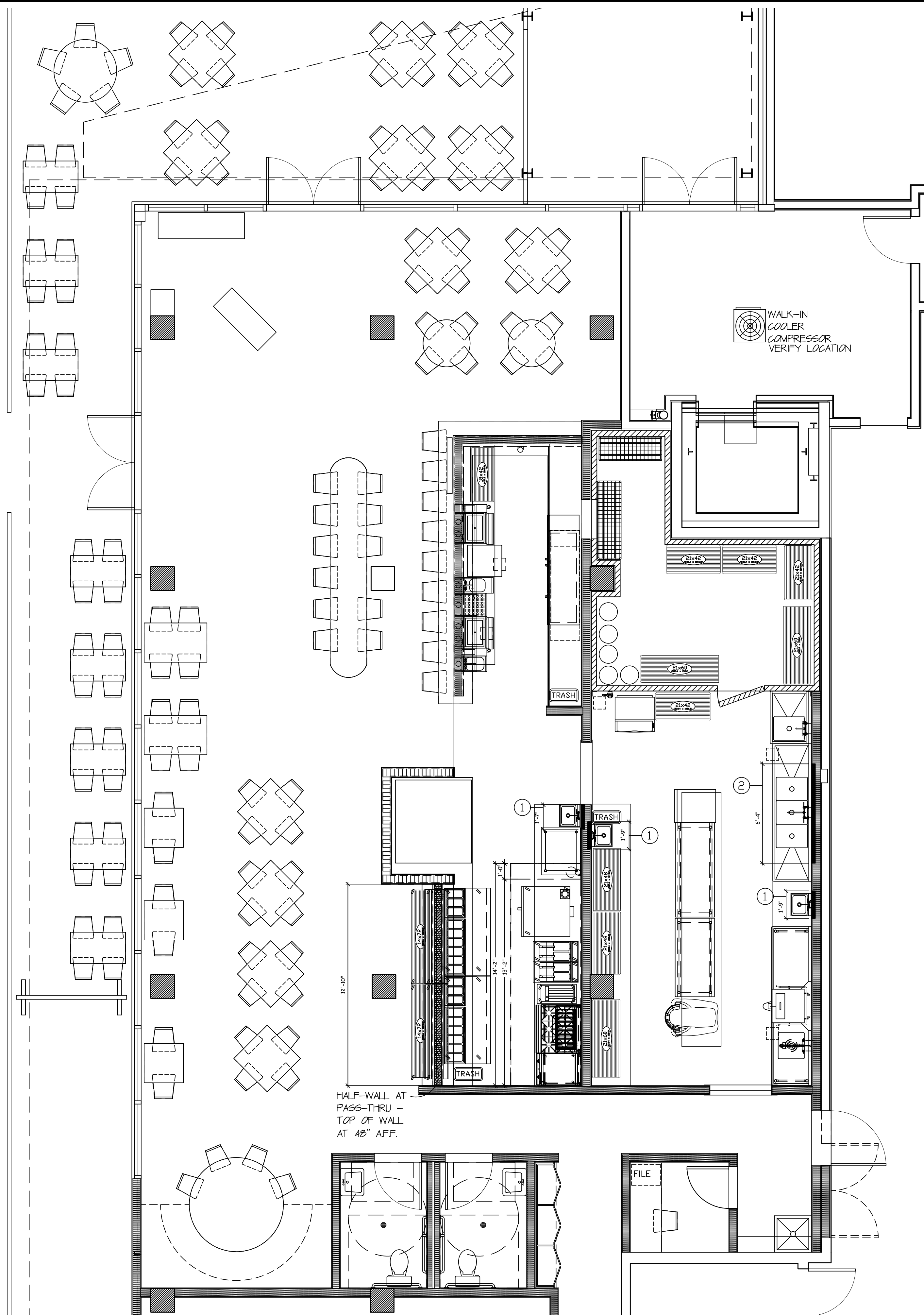
URBAN FIELD PIZZA AND MARKET
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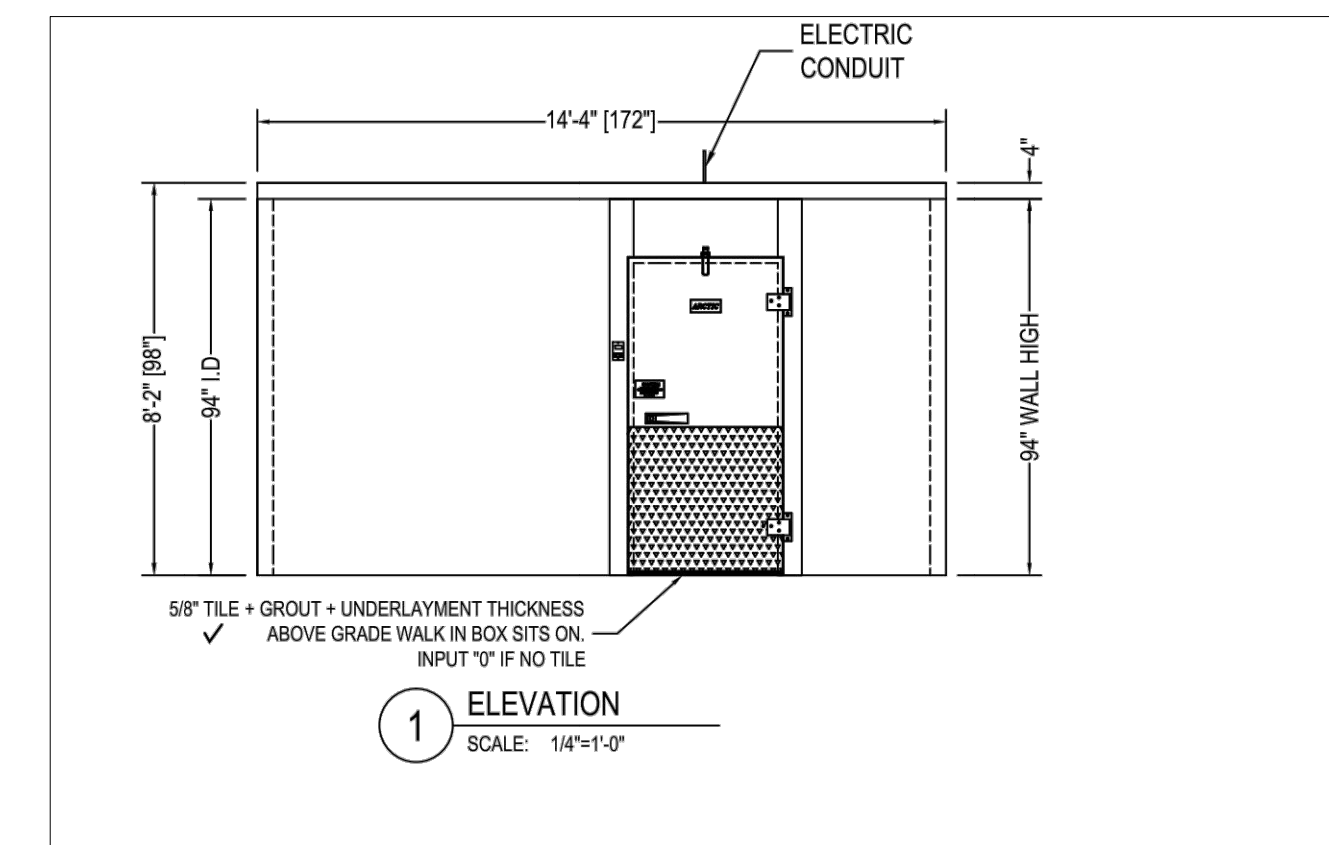
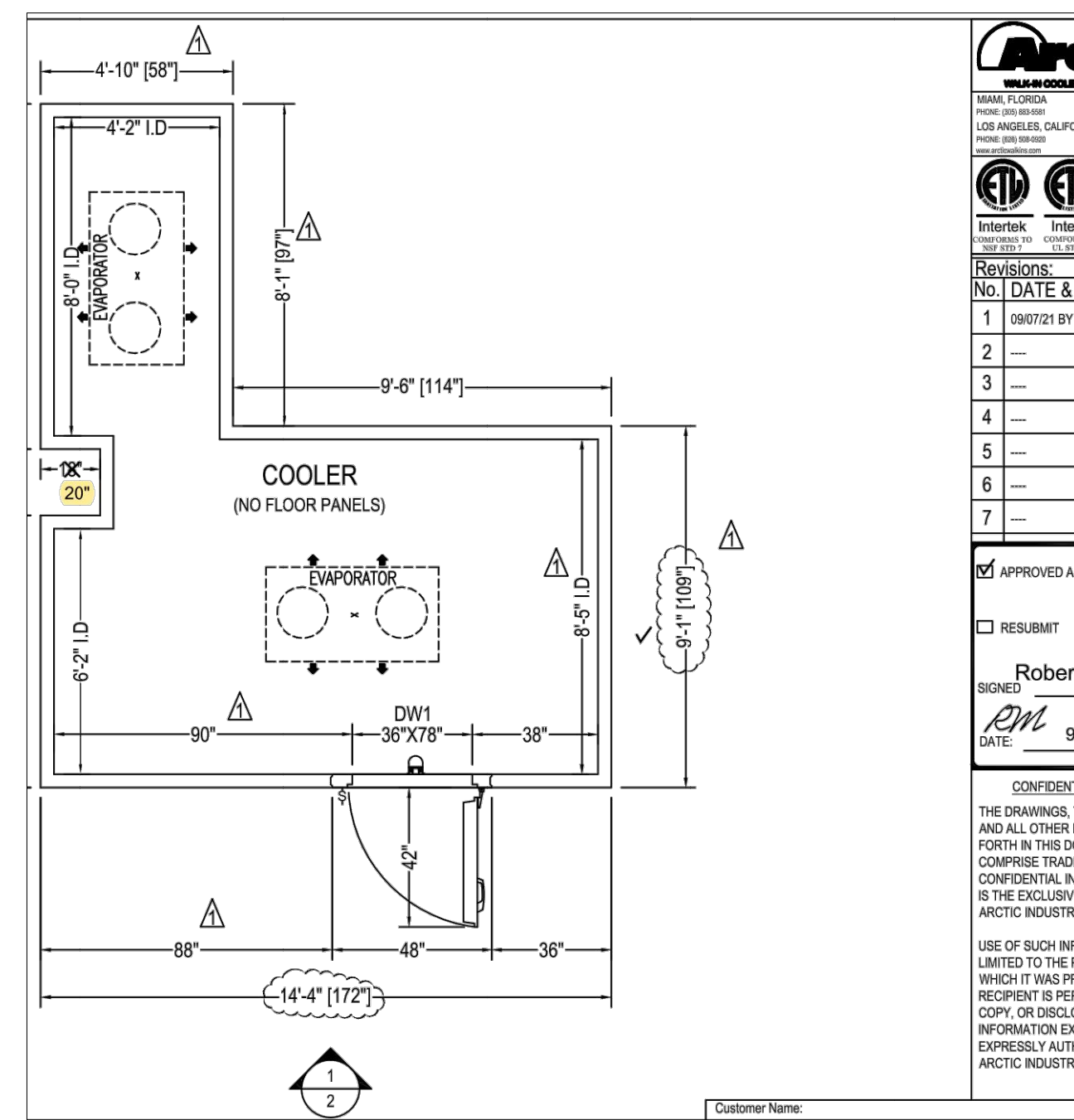
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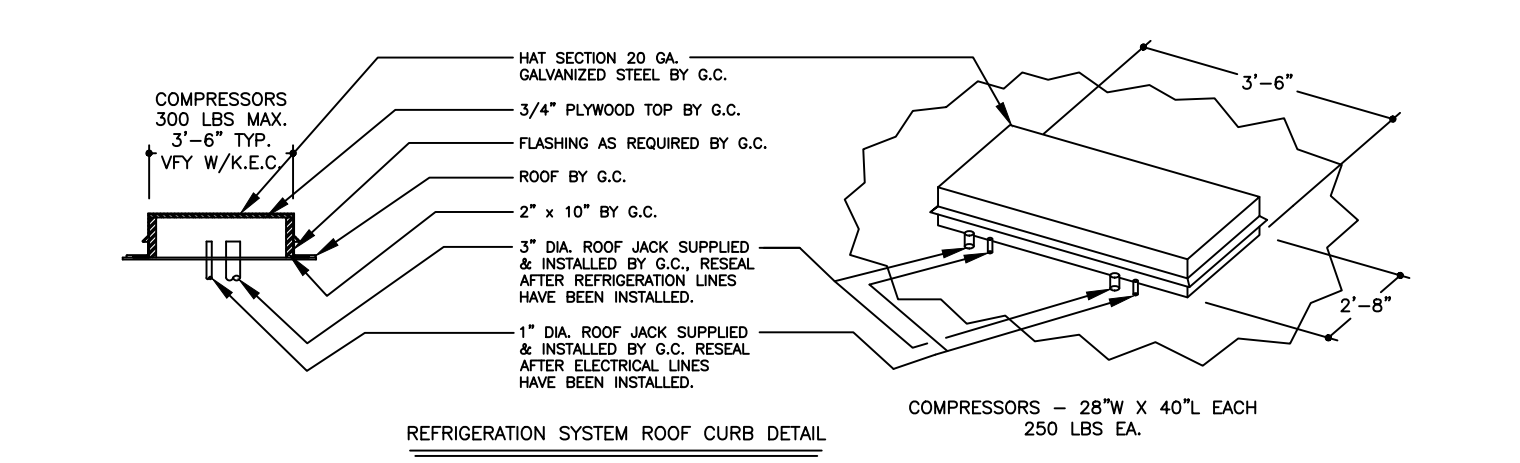


WALL BACKING SCHEDULE			
NO.	SIZE	HEIGHT ABOVE FINISHED FLOOR	REMARKS
		(CENTERLINE OF BACKING)	
①	2" x 12"	36"	HANDSINK
②	2" x 12"	60"	WALL SHELF
③	2" x 12"	60" & 84"	WALL CABINET

REFRIGERATION SPECIFICATIONS															
ITEM	QTY	HP	MANUFACTURE	MODEL	REFRIG	V/PH	MCA	FANS	CONNECTION		DIMENSIONS(IN)			WEIGHT	BTUH
SCROLL, REMOTE PREASSEMBLED, ECONET, AIR-COOLED, 35° OUTDOOR															
INLET	SUCTION	LENGTH	DEEP	HEIGHT	LBS										
1	1	2	RUSSELL CU	RFO200E4SDA	R448/449	208/230/1/60	19.6		1/2	7/8	38 1/4	28 1/4	21 1/4	215	14875
2	2		RUSSELL COIL C/M	RE6A084ADARE		115/1/60 EC	15.0	2	3/8	5/8	52	28 3/8	11 1/4	80	
ACCESSORIES															
(1) COMPRESSOR STAND U.L. 36X72 LONG W/18 LEGS															
NOTE: A LICENSED REFRIGERATION INSTALLER MUST DECIDE PLACEMENT OF EVAPORATOR(S) BASE ON SITE CONDITIONS, EVAPORATOR PLACEMENT ON DRAWING SHOULD BE USED FOR REFERENCE ONLY, DETAILED REFRIGERATION SPECIFICATIONS ARE AVAILABLE UPON REQUEST															



- ### BUILDING CONDITIONS/VENTILATION NOTES
- ALL WORK INDICATED WITHIN THESE PLANS AND NOTES SHALL BE USED BY OTHERS THAN THE KITCHEN EQUIPMENT CONTRACTOR, UNLESS NOTED.
 - WALLS, FLOORS, AND CEILINGS IN KITCHEN, PREP, SERVICE, WASHING AND BAR AREAS OR ANY OTHER LOCATION WHERE FOOD OR BEVERAGES ARE PREPARED SHALL BE SMOOTH, EASILY CLEANABLE, NON-ABSORBANT AND DURABLE. WALLS AND CEILINGS SHALL BE LIGHT COLORED.
 - PARTITION WALLS BETWEEN KITCHEN AREAS AND PUBLIC AREAS SHOULD BE CONSTRUCTED FOR ADEQUATE SOUND CONTROL.
 - FLOOR LOAD CAPACITY SHALL BE A MINIMUM OF 100 LBS. PER SQUARE FOOT OR AS REQUIRED FOR EQUIPMENT, K.E.C. TO VERIFY ANY WEIGHTS REQUIRED.
 - FINAL DUCT CONNECTIONS TO EQUIPMENT SHALL BE BY MECHANICAL CONTRACTOR.
 - MINIMUM VENTILATION REQUIREMENT:
 - KITCHEN, SERVICE, PREP AND WASHING AREAS - 45 TO 60 AIR CHANGES EVERY HOUR OR AS DETERMINED BY LOCAL CODES, RULES AND REGULATIONS.
 - STOREROOMS - 2 TO 3 AIR CHANGES EVERY HOUR OR AS DETERMINED BY LOCAL CODES, RULES AND REGULATIONS.
 - OFFICES - 4 AIR CHANGES EVERY HOUR (RECOMMEND AIR CONDITIONING) OR AS DETERMINED BY LOCAL CODES, RULES AND REGULATIONS.
 - REFRIGERATION CONDENSING UNITS - 850 CFM PER H.P. SUPPLY AND EXHAUST.
 - OTHER AREAS - AS REQUIRED BY CODES OR AS NOTED.
 - GENERAL CONTRACTOR, OR EQUIVALENT, SHALL:
 - PROVIDE IN-WALL BACKING AS REQUIRED FOR WALL MOUNTED KITCHEN EQUIPMENT; COORDINATE WITH K.E.C.
 - SLOPE FLOORS TO FLOOR SINKS, FLOOR DRAINS OR FLOOR TROUGHS.
 - PROVIDE DOOR/WALL OPENINGS FOR PASSAGE OF ALL KITCHEN EQUIPMENT AREAS.
 - WALK-IN COOLER/FREEZER DEPRESSIONS SHOULD BE SMOOTH AND TRANSIT-LEVEL WHERE DEPRESSIONS ARE REQUIRED. DEPTH AS NOTED.
 - FILL EXCESS DEPRESSION AROUND WALK-IN COOLER/FREEZERS WITH GROUT FINISH FLOOR MATERIAL AND COVERED BASE AFTER COOLERS/FREEZERS ARE INSTALLED BY K.E.C.
 - PROVIDE MASONRY PADS WITH TROWEL-SMOOTH AND LEVEL FINISH.
 - PROVIDE FIRE RATED MATERIALS AND/OR INSULATION AS REQUIRED FOR EXHAUST DUCTS, VENT STACKS, HEAT PRODUCING EQUIPMENT, ROOF/WALL PENETRATIONS, ETC.; PER LOCAL CODES.
 - PROVIDE COVERED-BASE MULDING OR COVERED INTEGRAL FLOOR MATERIALS AS REQUIRED AT ALL JUNCTIONS OF KITCHEN FLOORS AND WALLS.



BUILDING CONDITIONS AND VENTILATION PLAN AND SCHEDULE
SCALE: 1/4" = 1'

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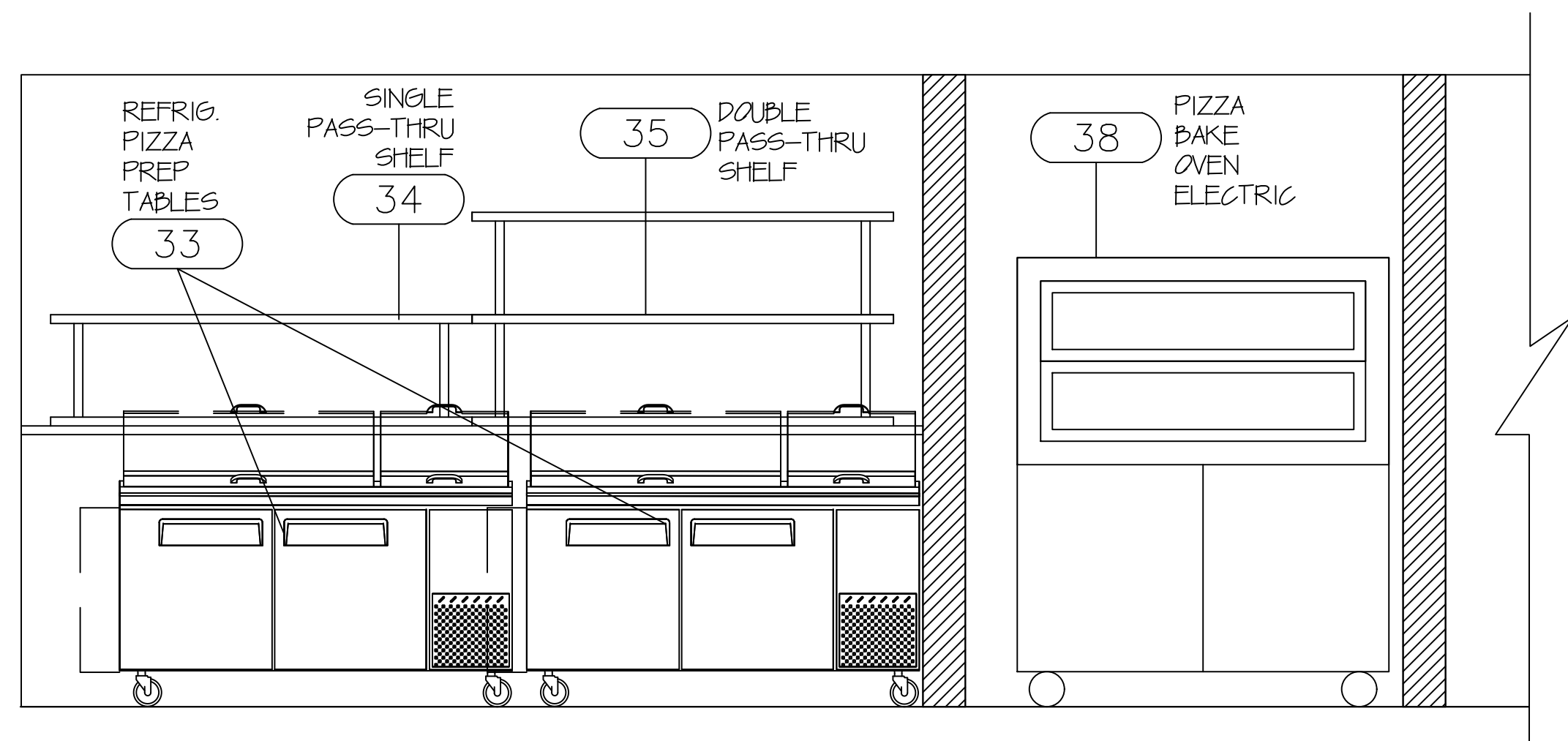
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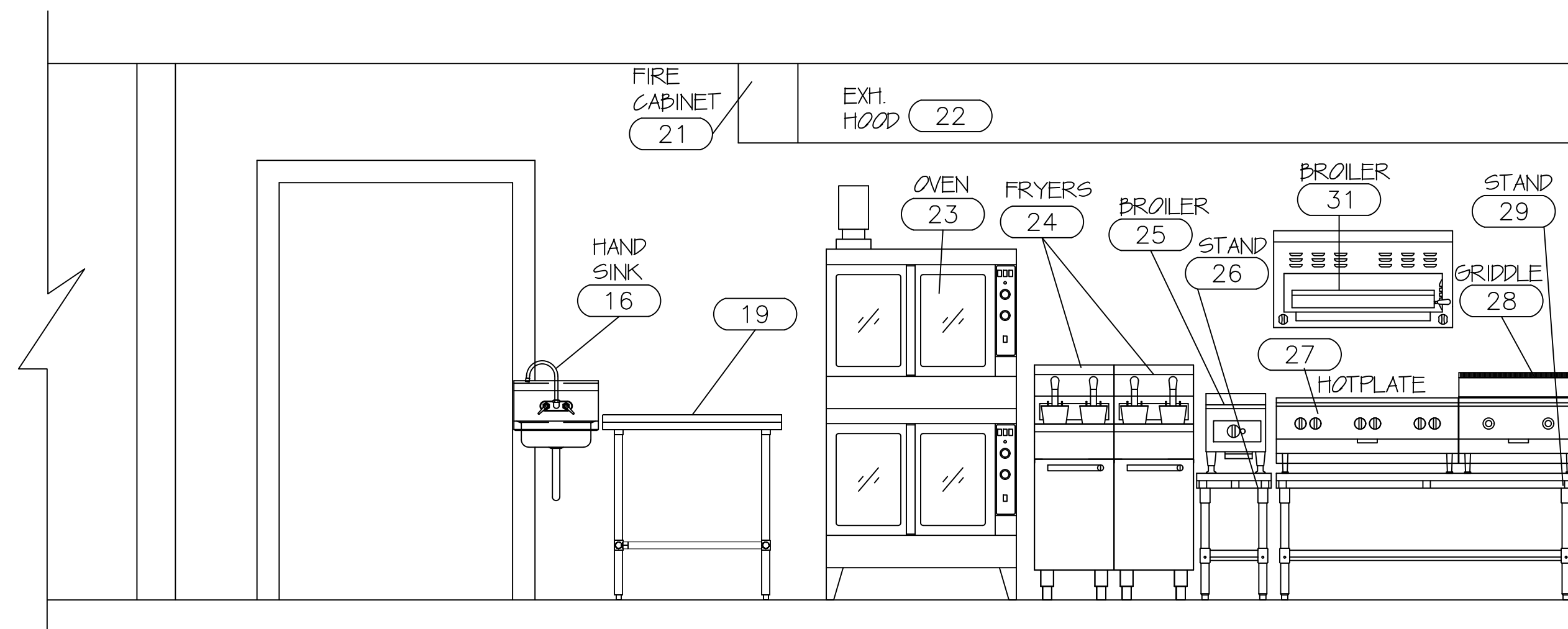
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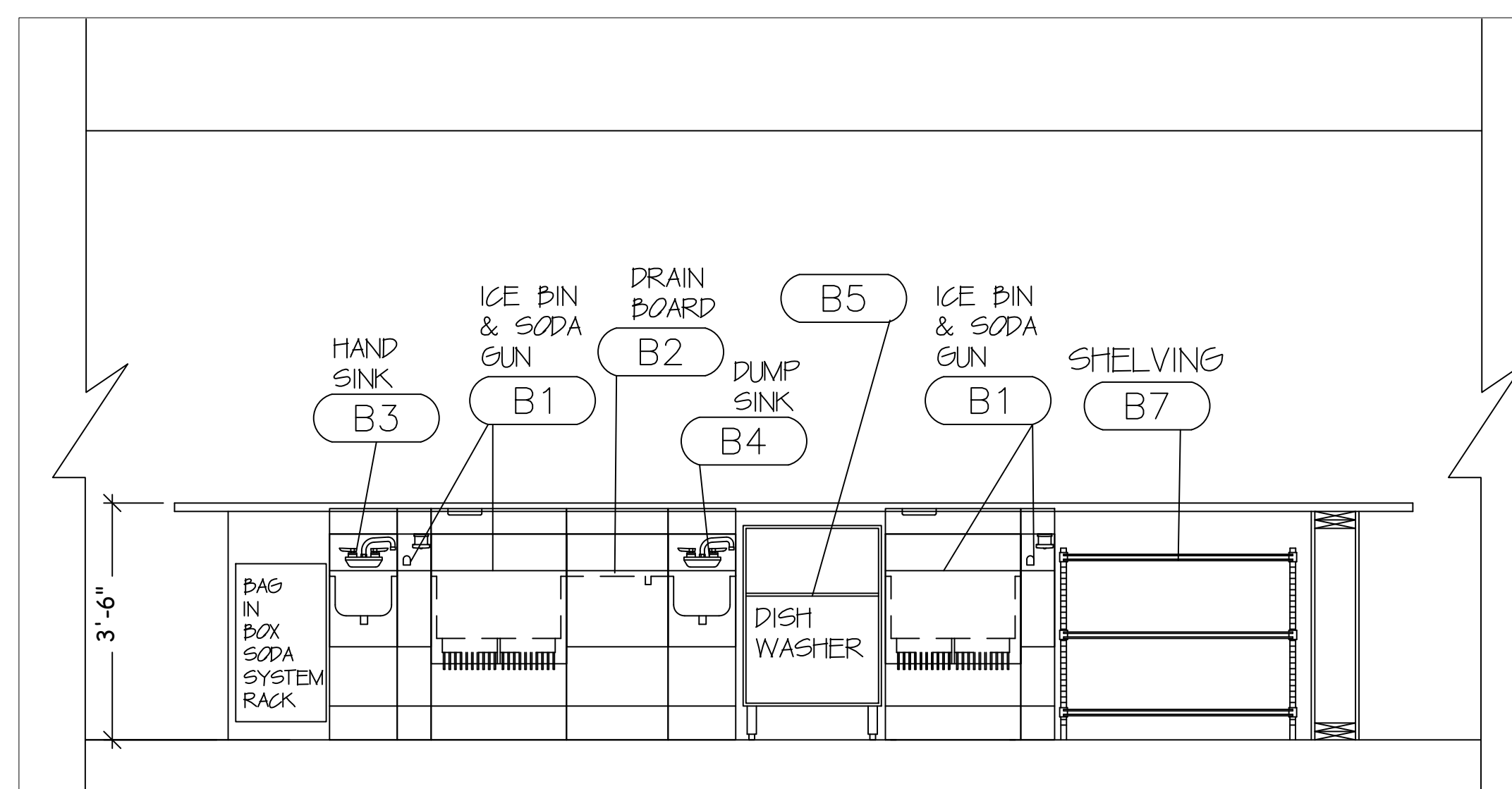
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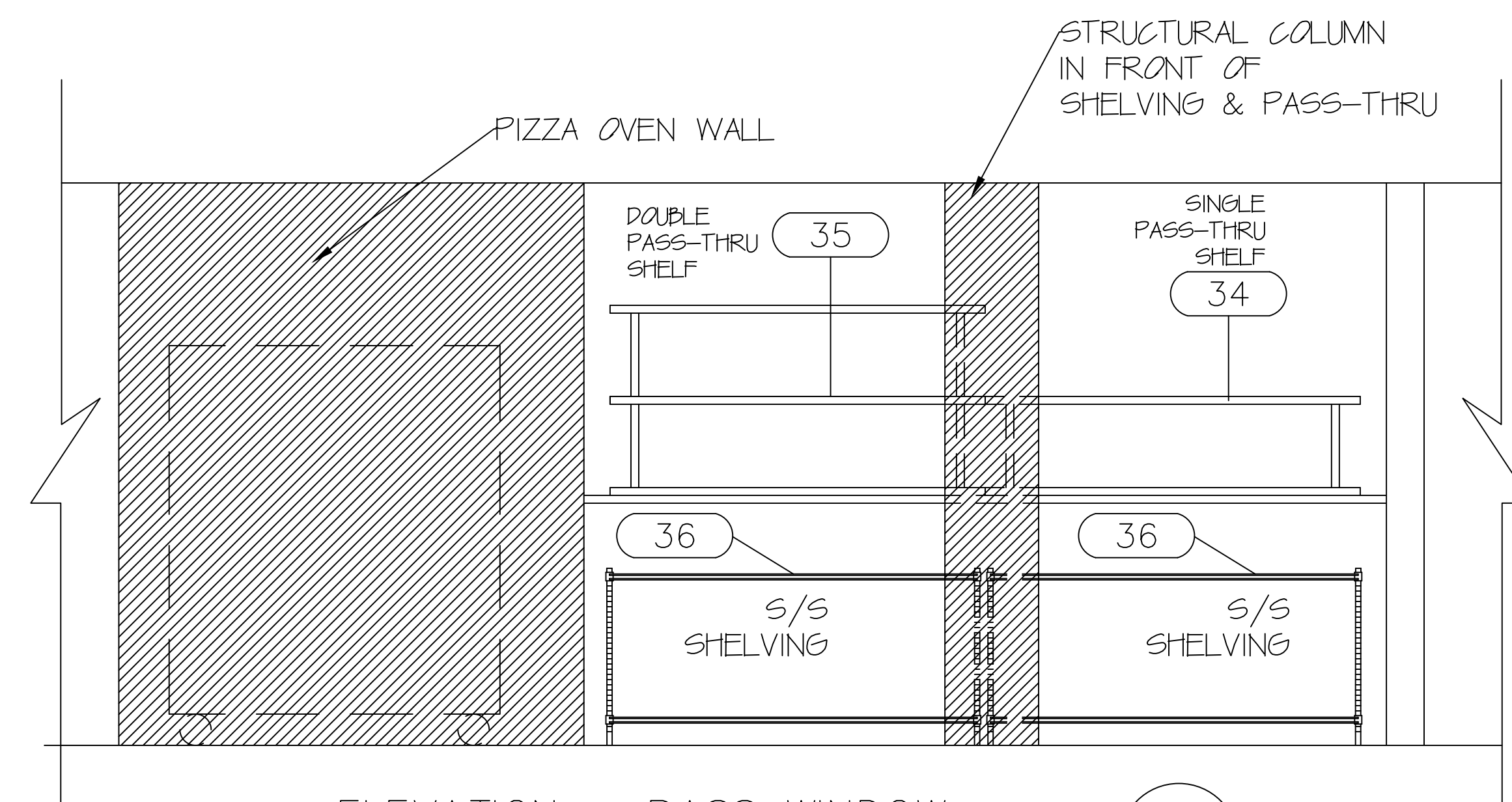
ELEVATION – PIZZA OVEN/WINDOW 2
SCALE: 1/2" = 1'-0" FS-5



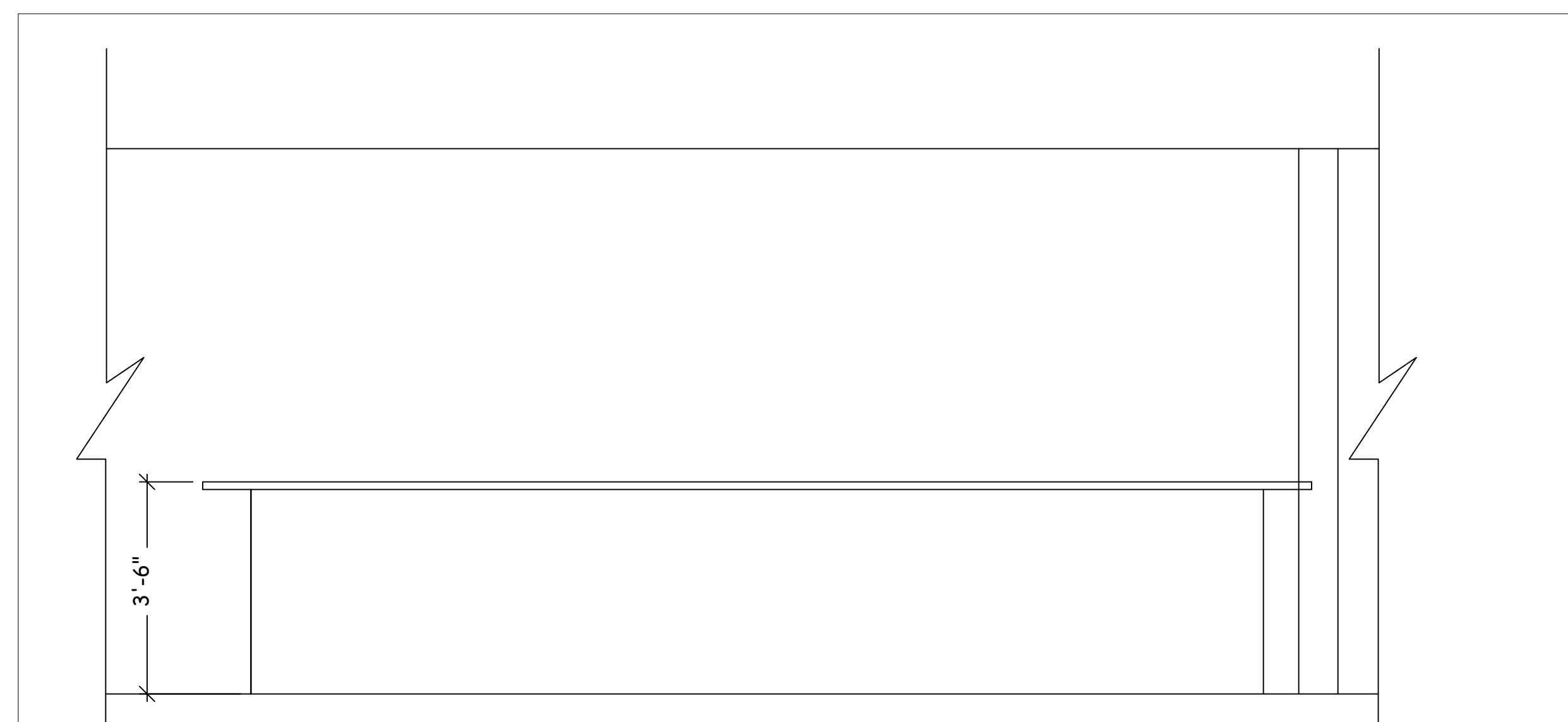
ELEVATION – HOT LINE – HOOD 1
SCALE: 1/2" = 1'-0" FS-5



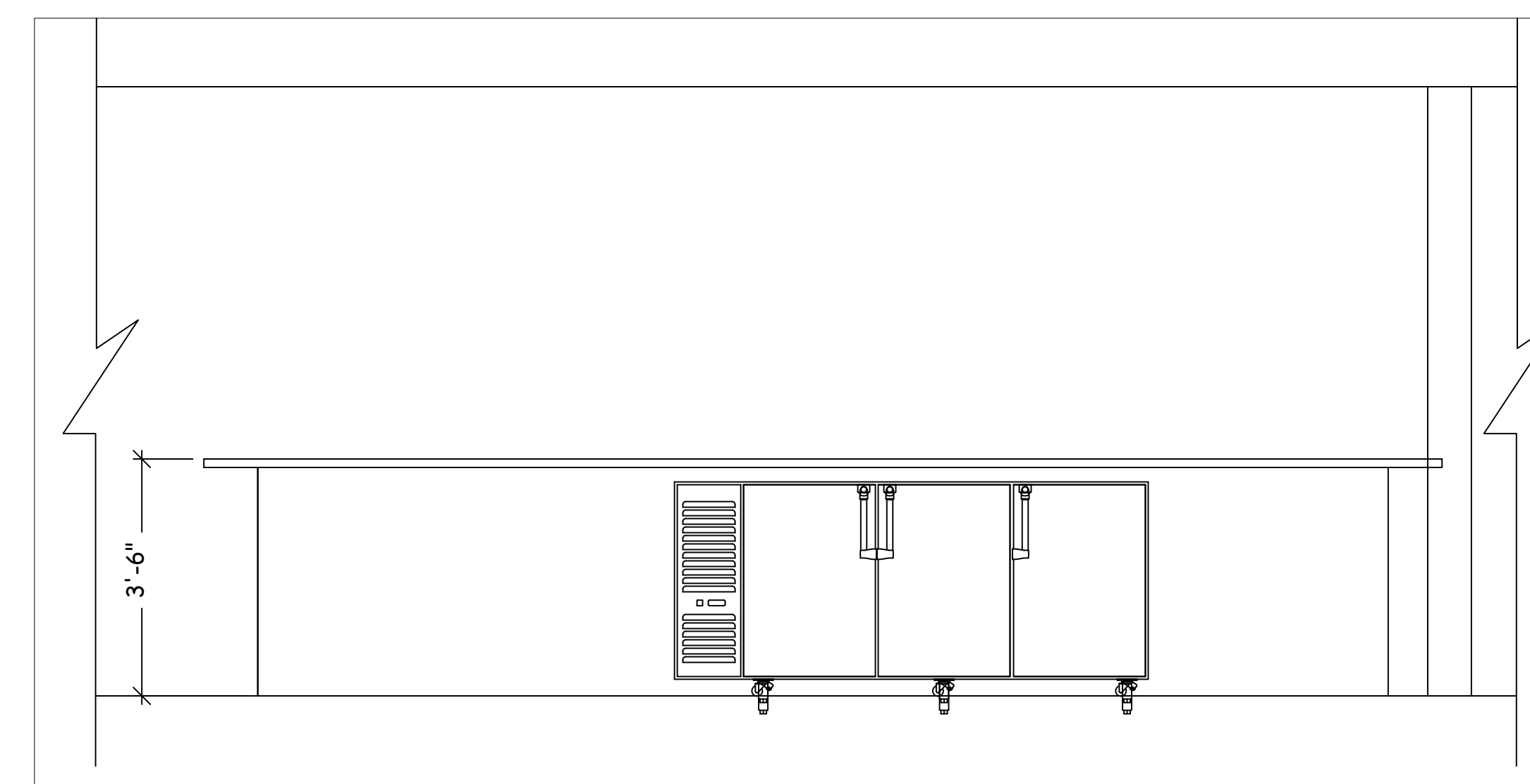
ELEVATION – BAR SERVICE SIDE 4
SCALE: 1/2" = 1'-0" FS-5



ELEVATION – PASS WINDOW 3
SCALE: 1/2" = 1'-0" FS-5



ELEVATION – FRONT OF BAR 6
SCALE: 1/2" = 1'-0" FS-5



ELEVATION – BACK BAR 5
SCALE: 1/2" = 1'-0" FS-5

SCALE: 1/4" = 1'-0"
DATE: 08/25/21
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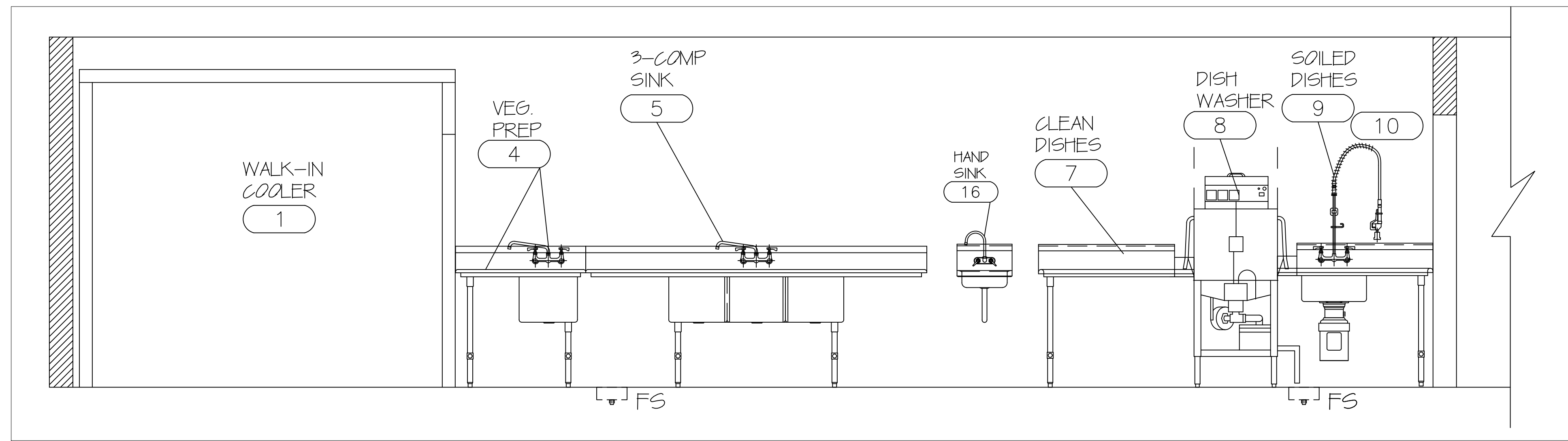
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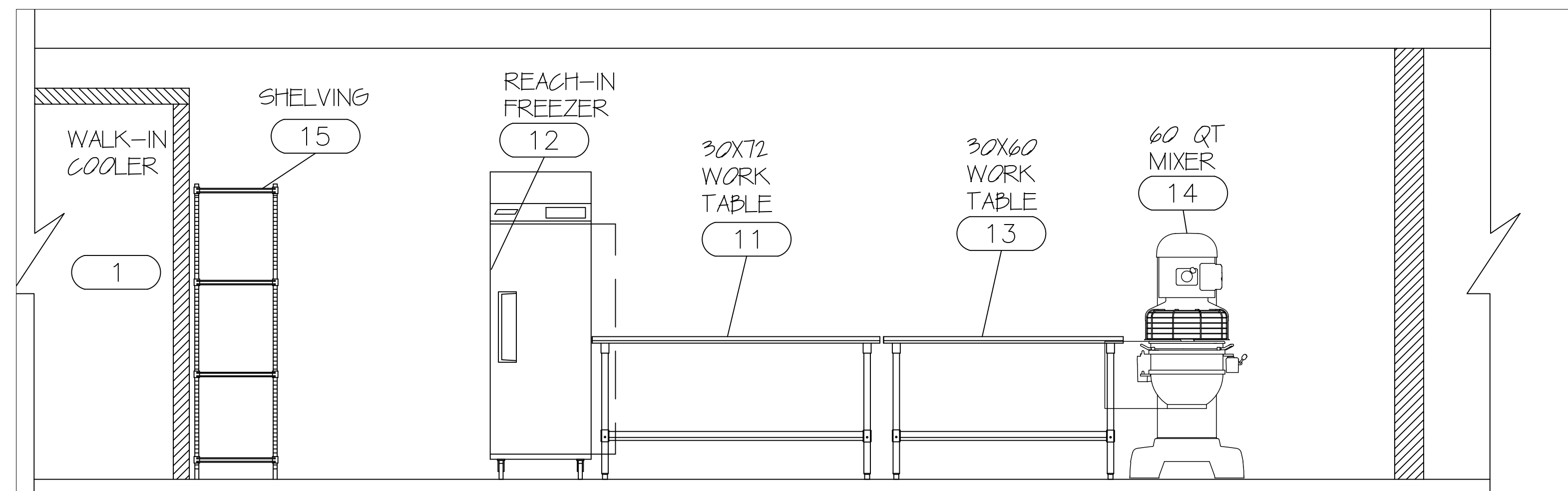
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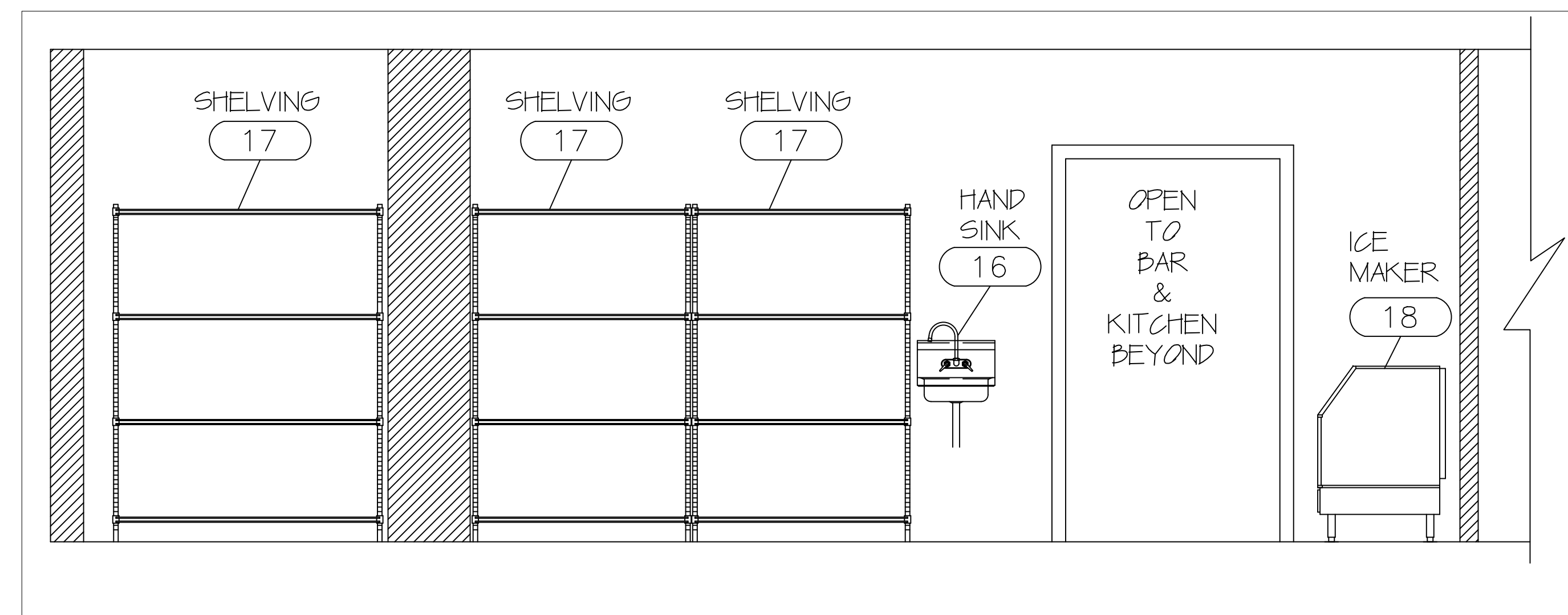
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ELEVATION – VEG. PREP/DISHWASHER 7
 SCALE: 1/2" = 1'-0" FS-6



ELEVATION – MIXER/ DOUGH PREP. 8
 SCALE: 1/2" = 1'-0" FS-6



ELEVATION – DRY STORAGE SHELVING 9
 SCALE: 1/2" = 1'-0" FS-6

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