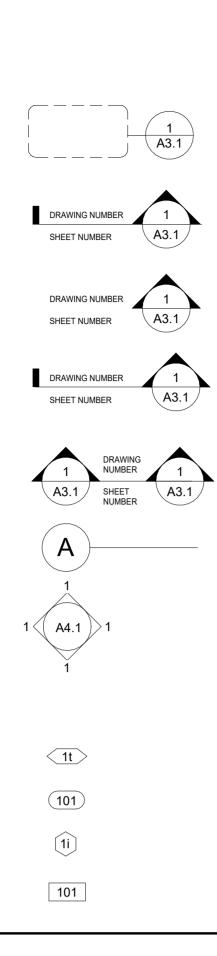
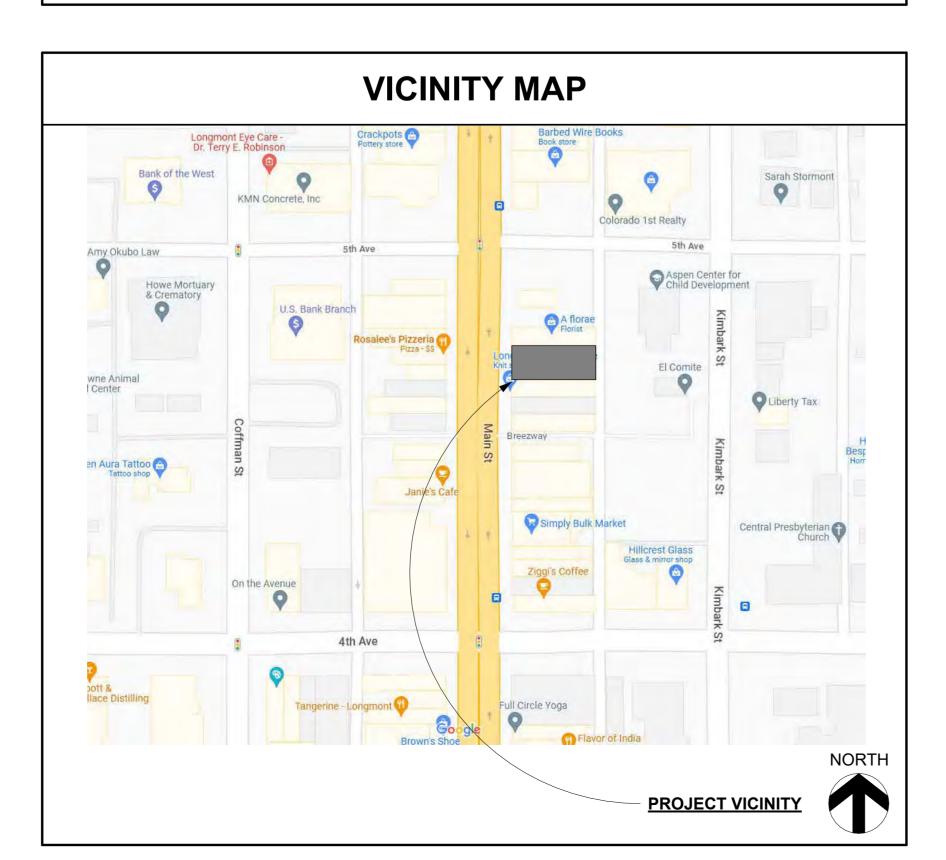
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	GENER
1.	Contractor shall be governed by the currently adopted edition of all codes and regulations having jurisdiction over aspects of this construction project.
2.	Written dimensions and existing conditions shall be verified in the field by the Contractor and/or his Subcontractors. Do not scale drawings. If further clarification is required, contact Architect and provide him with field dimensions as required to assist him with his clarification.
3.	Any discrepancy in dimensions and/or drawings and/or field measurements shall be brought to the attention of the Architect prior to the commencement of any work.
4.	These drawings and specifications are the property and copyright of the Architect and shall not be used on any other work except by agreeme with the Architect.
5.	Duty of Cooperation: Release of these plans anticipates further cooperation among the Owner, Contractor, and Architect. Although the Architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Any ambiguity of discrepancy discovered shall be reported immediately to the Architect Failure to cooperate by a simple notice to the Architect shall not reliev the Contractor from responsibility for all consequences. Changes mad from the plans without the consent of the Architect are unauthorized, and shall relieve the Architect of responsibility for all consequences arriving out of such changes.
6.	All products shall be installed per manufacturer's recommendations.
7.	All work to be in accordance with "General Conditions of the Contract for Construction - A.I.A. Document A201" and other Contract Documents.
8.	Contract Documents also include the Project Manual and specification said documents are made part of these drawings in their entirety as if attached.
9.	The Contractor shall include any work required to make the end result building operative and able to be occupied. If equipment, material and intent are not detailed in drawings or specifications but are obviously required as industry standard for operative conditions, this work shall included in base bid. If the Owner does not accept the Contractor's selection, the additional cost (to the Contractor) of that equipment or materials chosen by the Owner or Architect will be offset by Change Order.
10.	Do not use cadmium or cadmium plated products or products containing cadmium for work in place.



## **GRAPHIC STANDARDS**

ROOM NAME/NUMBER	
	CONCRETE
ENLARGED DETAIL	UNDISTURBED EARTH OR COMPACTED FILL
DETAIL TAG	POROUS FILL (GRAVEL)
ELEVATION TAG	BRICK OR STONE MASONRY
WALL SECTION TAG	CONCRETE MASONRY
	GYP. BD.
BUILDING SECTION TAG	BATT INSULATION
STRUCTURAL GRID	RIGID INSULATION
INTERIOR ELEVATIONS	METAL
	FINISH WOOD
GLAZING NUMBER	ROUGH WOOD
DOOR NUMBER	PLYWOOD
PARTITION TYPE	GLASS (IN ELEVATION)
EQUIPMENT TAG	

## **GENERAL NOTES**

13.

## urisdiction over aspects of this

- conditions shall be verified in the field bcontractors. Do not scale drawings. If contact Architect and provide him with assist him with his clarification.
- s and/or drawings and/or field t to the attention of the Architect prior to

#### tions are the property and copyright of the d on any other work except by agreement

- f these plans anticipates further Contractor, and Architect. Although the have performed their services with due 15. ot guarantee perfection. Any ambiguity or e reported immediately to the Architect. e notice to the Architect shall not relieve lity for all consequences. Changes made 16. sent of the Architect are unauthorized, f responsibility for all consequences
- per manufacturer's recommendations. with "General Conditions of the Contractor ment A201" and other Contract
- de the Project Manual and specifications; t of these drawings in their entirety as if 18.
- ny work required to make the end result be occupied. If equipment, material and/or ings or specifications but are obviously for operative conditions, this work shall be vner does not accept the Contractor's

- the currently adopted edition of all 11. Do not use asbestos containing products for work in place. Contractor shall not cut, drill, remove, or otherwise disturb any material, equipment, construction, etc., if it is thought to contain any hazardous material. If material, equipment, construction, etc., is encountered which appears to, or is likely to contain hazardous materials, notify Owner immediately.
  - 12. Electrical equipment shall be certified as containing no PCB's. Typographical errors or errors of spelling shall be brought to the
  - Architect's attention for clarification. Interpretation of the meaning of mis-typed or misspelled words without clarification from the Architect will be done by the Contractor with acceptance of responsibility for that interpretation and all consequences arriving therefrom. Note: All dimensions to face of masonry, center line of structural steel
  - 14. or face of gypsum board, typ. u.o.n. - All masonry dimensions indicated are nominal dimensions.
  - The term "provide" as used herein shall mean that Contractor shall furnish and install said item, construction, equipment, materials, etc., for a omelette, finished installation.
  - General Contractor shall be responsible for coordination of all trades doing work and coordination with Owner and Owner's subcontractors regarding installation and provision for all equipment, materials and constructions indicated "by Owner" or "by others" on these documents.
  - All existing areas outside of contract limits are fully finished and beyond the jurisdiction of the owner. Contractor shall take all precautions necessary to protect these areas from damage, debris, and any other deleterious effects caused by this construction. Any areas affected by this construction shall be restored to original condition as required at completion of project.
  - Separate permits/applications shall include, but are not limited to, the following: Fire Sprinkler and Fire Alarm from the Fire Department, Kitchen Hood System from the Fire Department, High piled combustion storage from the Fire Department, and Exterior Tenant Signage from the Planning Department. CBC Appendix Chapter 1, Section 106.

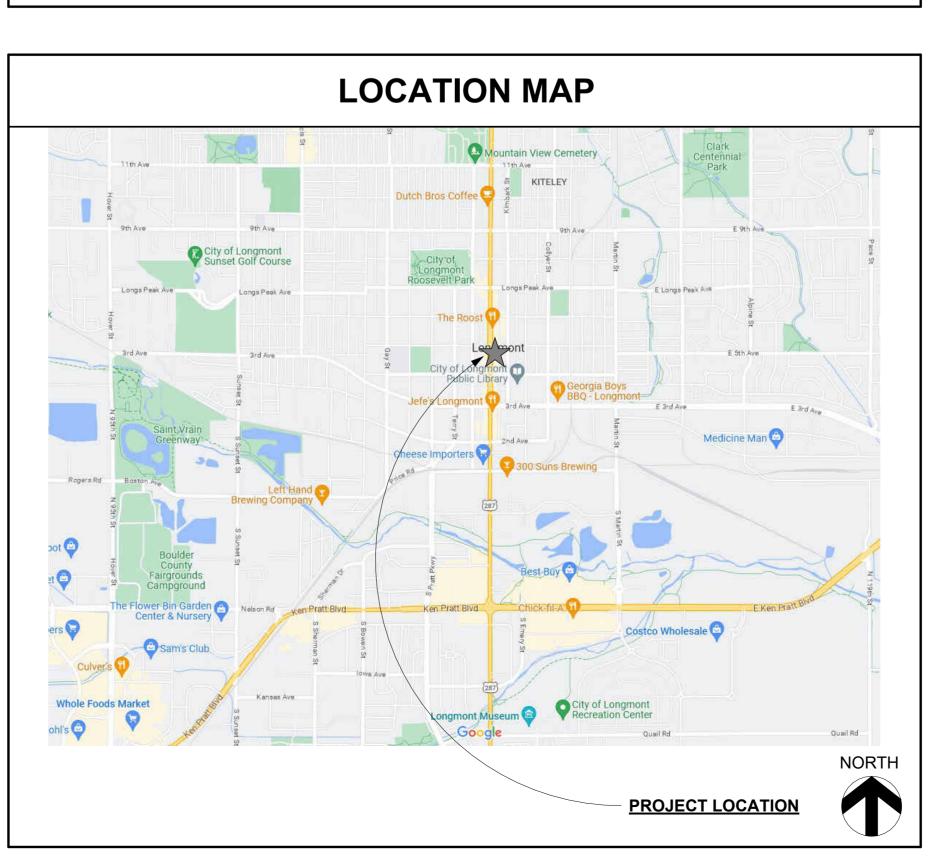


# **PROJECT DIRECTORY**

#### <u>OWNER</u> Teocalli Cucina 103-C North Public Rd. Lafayette, CO 80026 (303) 868-6647 Contact: Grant Hopfenspirger email: ghopf@comcast.net

ARCHITECT Bray Architecture, Inc. 1300-C Yellow Pine Ave. Boulder CO 80304 (303) 579-3609 Contact: Jim Bray email: jim@brayarchitecture.net

STRUCTURAL ENGINEER Gebau Structural Engineers 1121 Broadway, # 201 Boulder CO 80302 (303) 444-8545 Contact: Joel Ambrosino email: joel@gebau.com





# **TEOCALLI CUCINA**

460 MAIN STREET LONGMONT, COLORADO 80501

# **PERMIT SET**

SEPTEMBER 22, 2023

MEP ENGINEER Boulder Engineering Company 1717 15th Street Boulder CO 80302 (303) 444-6038 Contact: Ethan Miley email: ethan@boulderendineering.com

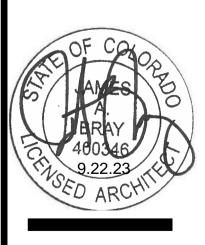
FOOD SERVICE W. West Equipment 9355 Northfield Blvd Denver, CO 80238 (720) 961-0331 Contact: Stacy Jackson email: sjackson@wwestequipment.com

CONTRACTOR Narvaes Western 474 S. Taylor Ave., Suite B Louisville, CO 80027 (303) 786-8061 Contact: Amory Narvaes email: amory@narvaes.com

<b>SHEET</b> GENERAL	DESCRIPTION	SHEET	DESCRIPTION
GENERAL		UNEET	
		ELECTRIC	٨١
A0.0 ARCHITEC	Cover Sheet TURE	E1.1 E1.2 E2.2	Basement & First Floor P Basement & First Floor L Second Floor Lighting Pla
A0.1	Life Safety & Project Information	E3.1 E4.1	Roof Electrical Plan Electrical Details & scheo
A2.0	Demolition Plan	E4.2	Electrical Details & Scheo
A2.1 A2.2	Basement Floor Plan Level 1 Floor Plan	E5.1	Electrical Specifcations
A2.3	Level 2 Floor Plan	FOOD SEF	RVICE
A2.4	Roof Plan	504.0	
A2.5 A2.6	Level 1 Furniture & Finish Plan Level 2 Furniture & Finish Plan	FS1.0 FS1.1	Equipment Plan & sched Equipment Schedule
A2.7	Level 1 Reflected Ceiling Plan	FS2	Plumbing Rough-in Plan
A2.8	Level 2 Reflected Ceiling Plan	FS3	Electircal Rough-in Plan
A3.0 A4.0	Exterior Elevations Building Sections	FS4 FS5	Building Conditions Plan Kitchen Hood Plan & Sch
A4.0 A4.1	Interior Elevations	FS6.0	Equipment Elevations
A4.2	Interior Elevations	FS6.1	Equipment Elevations
A4.3 A4.4	Interior Elevations	FS6.2 FS6.3	Equipment Elevations
A4.4 A4.5	Interior Perspectives Interior Perspectives	FS0.3 FS7.0	Equipment Elevations Kitchen Hood Shop Draw
A4.6	Bathroom Elevations	FS7.1	Kitchen Hood Shop Draw
A5.0 A5.1	Wall Sections Wall Sections	FS7.2	Kitchen Hood Shop Draw
A5.1 A5.2	Details	FS7.3 FS7.4	Kitchen Hood Shop Draw Kitchen Hood Shop Draw
A5.3	Railing Details	FS7.5	Kitchen Hood Shop Draw
A5.4 A6.0	Screen Wall Details Enlarged Restroom Plans	FS7.6 FS7.7	Kitchen Hood Shop Draw Kitchen Hood Shop Draw
A6.1	Enlarged Stair Plans	F57.7	Ritchen Hood Shop Draw
A6.2	Enlarged Bar Plans & Millwork Details		
A7.0	Door & Window Schedules		
A7.1 A8.0	Finish Schedules Outline Specifications		
A8.1	Outline Specifications		
STRUCTUR	RE		
S1.1	Main Floor Framing Plan		
S1.2	Main Floor Framing Flan		
S1.3	Roof Framing Plan		
S2.1 S2.2	Details Details		
	Details		
PLUMBING			
P1.0	Basment Plumbing Plan		
P1.1 P4.1	First Floor Plumbing Plan Plumbing Details & Schedules		
P4.1	Plumbing Isometric Diagram		
P5.1	Plumbing Specifications		
MECHANIC	AL		
M1.1	Basment & First Floor HVAC Plan		
M2.1	Second Floor & Roof HVAC Plan		
M4.1 M5.1	Mechanical Details & Schedules Mechanical Specifications		



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PROJECT No: ISSUE DATE: 09/22/23 REVISIONS:

202305

SHEET TITLE:

COVER SHEET

SHEET NUMBER:



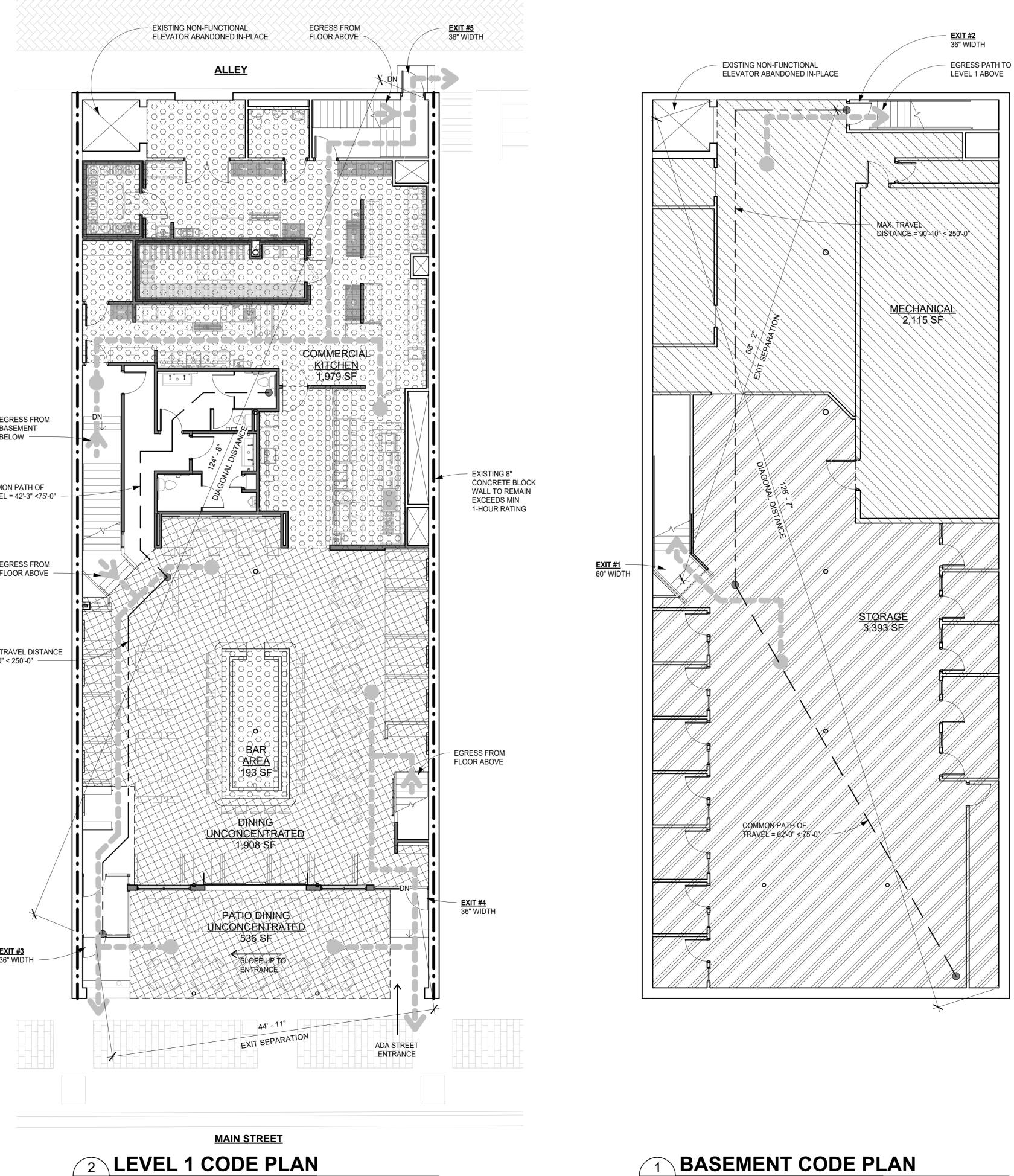
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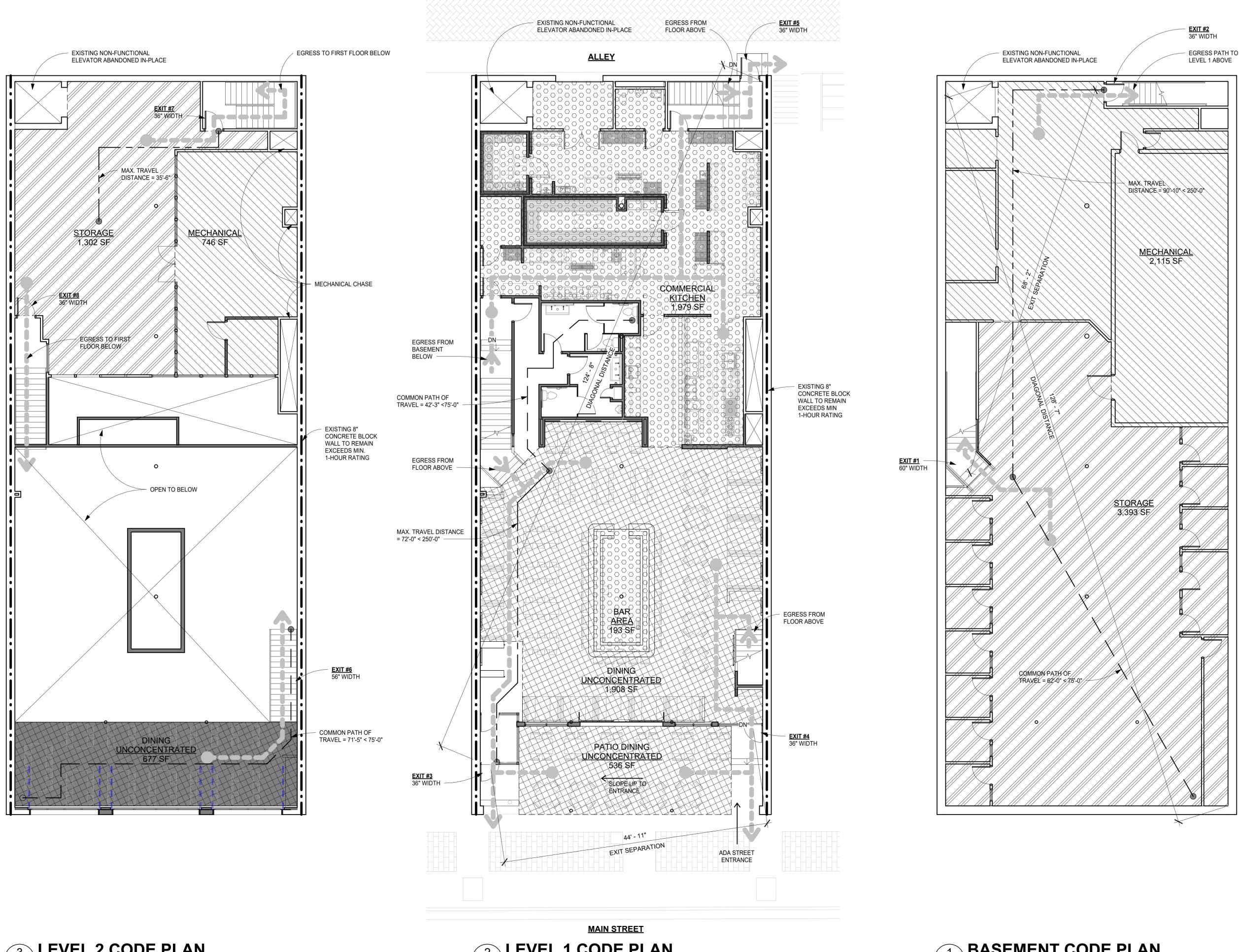
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A0.1 / 1/8" = 1'-0"

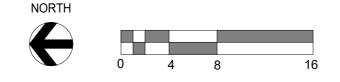
#### CODE PLAN LEGEND UNCONCENTRATED (TABLES & CHAIRS) IKKK COMMERCIAL KITCHEN SPACE Lozozoz STORAGE SPACE MECHANICAL SPACE NON-ACCESSIBLE AREA (OPEN TO PUBLIC) MAX PATH OF TRAVEL COMMON PATH OF TRAVEL EGRESS PATH 1-HOUR RATED WALL

A0.1 / 1/8" = 1'-0"

## **PROJECT DATA**

12.2 PLUMBING R		e Analysis, Sections S (IBC table 2902		cupants
GENDER	WATER CLOSETS 1 per 75	LAVATORIES 1 per 200	URINALS	SERVICE SINK
REQUIRED				
MALE	2	1	-	
FEMALE	2	1	-	
PROVIDED				
MALE	1	2	1	
FEMALE	2	2	-	1
UNI-SEX	1	1	1	

12.



## **PROJECT DATA**

- SCOPE OF WORK Tenant improvement of existing space. Addition of patio within existing footprint of building. Reduction of enclosed square footage. Change in use from B to A2. Existing basement and second floor to remain in existing condition.
- BUILDING CODES ENFORCED 2 2018 INTERNATIONAL BUILDING CODES
- 2017 NATIONAL ELECTRICAL CODE 2009 ICC/ANSI A117.1 STANDARD FOR ACCESSIBLE & USABLE BUILDINGS & FACILITIES
- WORK CLASSIFICATION (Per IEBC chapter 6) 3. Level 2 Alteration
- BUILDING CLASSIFICATION (Per IBC section 602.1)
- 4.1 CONSTRUCTION TYPE V-B Construction NFPA 13 Automatic Sprinkler System Added Throughout OCCUPANCY CLASSIFICATION (Per IBC section 302.1) 5. 5.1 OCCUPANCY GROUPS

A-2 - Restaurant BUILDING AREA/OCCUPANCY

4.

6.1 AREA Floor area includes the entire area "within the surrounding exterior walls." BASEMENT = 5,851 sf 5,251 sf LEVEL 1 = LEVEL 2 = <u>3,023 sf</u> TOTAL SQUARE FOOTAGE = 14,125 sf

OCCUPANT LOAD 7.1 OCCUPANT LOAD / EGRESS REQUIREMENTS (Per IBC table 1004.5)

AREA	LOAD FACTOR	OCC. LOAD	EXITS REQ'D	EXITS PROV'D
3,393 sf	300 gross	12	1	2
2,115 sf	300 gross	8	1	2
BASEMENT OCCUPANT LOAD				
1,908 sf	15 net	128	2	2
2,172 sf	200 gross	11	1	1
CUPANT LOA	D	139		
536 sf	15 net	36	1	2
PATIO OCCUPANT LOAD				
677 sf	15 net	46	1	1
1,302 sf	300 gross	5	1	2
746 sf	300 gross	3	1	2
OCCUPANT LO	OAD	54		
NT LOAD		249		
	3,393 sf 2,115 sf UPANT LOAD 1,908 sf 2,172 sf CCUPANT LOA 536 sf IT LOAD 677 sf 1,302 sf 746 sf OCCUPANT LO	3,393 sf       300 gross         2,115 sf       300 gross         2,115 sf       300 gross         UPANT LOAD	FACTOR       LOAD         3,393 sf       300 gross       12         2,115 sf       300 gross       8         UPANT LOAD       20         1,908 sf       15 net       128         2,172 sf       200 gross       11         CCUPANT LOAD       139         536 sf       15 net       36         IT LOAD       36         677 sf       15 net       46         1,302 sf       300 gross       5         746 sf       300 gross       3         OCCUPANT LOAD       54	FACTOR         LOAD         REQ'D           3,393 sf         300 gross         12         1           2,115 sf         300 gross         8         1           UPANT LOAD         20         1         1           1,908 sf         15 net         128         2           2,172 sf         200 gross         11         1           CCUPANT LOAD         139         1         1           CCUPANT LOAD         36         1         1           T LOAD         36         1         1           677 sf         15 net         46         1           1,302 sf         300 gross         5         1           746 sf         300 gross         3         1           OCCUPANT LOAD         54         1

ALLOWABLE HEIGHT/AREA (Per IBC tables 504.3 & 504.4) 8. 8.1 HEIGHT - Building Stories

		TYPE	HEIGHT	HEIGHT	STORIES	STO
A-2 VB 60' 24' 2	A-2	2 VB	60'	24'	2	

Building height for most restrictive occupancy per IBC table 504.4 = 2 stories 8.2 ELOOR AREA CALCUL ATIONS (Per IBC table 506.2)

.2 FLOOR AF	REA CALCUI	_ATIONS (Pe	er IBC table 5	506.2)		
	OCCUPANCY					
TABULAR	18,000					
TABULA	TABULAR AREA - NS (table 506.2)					
	F	Р	W			
FRONTAGE	101	250	30			
INCREASE (Equation 5-5)	l <sub>f</sub> = (101/25					
	(NS )	900				
ALLOWABLE AREA (Equation 5-3)	$A_{a} = A_{t} + (NS \times I_{f}) =$			24,900		

The actual building height (2 stories) is equal to the allowable height (2 stories) The actual first floor area (5,251 s.f.) is less than allowable floor area (24,900 s.f.)

BUILDING FIRE RESISTANCE

9.1	RATINGS AT STRUCTURAL / BUILDI	NG ELEMENTS (Per IBC table 601)
	BUILDING ELEMENT	FIRE RESISTIVE RATING
	STRUCTURAL FRAME	0-HOURS
	BEARING WALLS	0-HOURS
	EXT. NON-BEARING WALLS (NB)	See section 9.2 for specific ratings
	INTERIOR PARTITIONS (NB)	0-HOURS
	FLOORS & FLOORS/CEILINGS	0-HOURS
	ROOFS & ROOFS/CEILINGS	0-HOURS
	SHAFT ENCLOSURES	0-HOURS
9.2	EXTERIOR WALL PROTECTION AND	OPENINGS (Per table 602 and section 7

WALL LOCATION	FIRE SEPARATION DISTANCE	EXTERIOR WALL (Table 602)	WALL OPENIN UNPROTECT (Table 705.8
NORTH	0'	1-HOURS	NOT PERMITT
EAST	>30'	0-HOURS	NO LIMIT
SOUTH	0'	1-HOURS	NOT PERMITT
WEST	>30'	0-HOURS	NO LIMIT
	ON (Per IBC 1007	1.1 - Exception 2	

9.3 EXIT SEPARATION (Per IBC 1007.1.1 - Exception 2) <u>BASEMENT</u> MINIMUM DISTANCE REQ'D. = 128'-7" / 3 = 42'-10" ACTUAL SEPARATION DISTANCE = 68'-2" > 42'-10"

<u>FIRST FLOOR</u> MINIMUM DISTANCE REQ'D. = 124'-8" / 3 = 41'-7" ACTUAL SEPARATION DISTANCE = 44'-11" > 41'-7"

9.4 MISCELLANEOUS REQUIREMENTS COMMON PATH OF TRAVEL DISTANCE: (TABLE 1006.2.1)

- 75 FT (WITH SPRINKLER SYSTEM) MAX TRAVEL DISTANCE: (TABLE 1017.2) •
- 250 FT (WITH SPRINKLER SYSTEM) ACCESSIBLE ROUTE TO PUBLIC WAY:

1:20 MAX SLOPE W/ 1:50 MAX CROSS SLOPE

10. ACCESSIBILITY

10.1 ACCESSIBILITY - All primary functions are fully accessible at first level per IBC chapter 11. Sloped approach added at entry to make front entrance accessible. 10.2 NON-ACCESSIBLE AREAS - Second floor is not required to be accessible per IBC Section 1104.4 exception 1 Area Calculated for public areas only; Basement & Storage / Mechanical at second floor are not open to the public

LEVEL	NON- ACCESSIBLE AREA	REFER
BASEMENT	0 sf	1/A0.1
FIRST FLOOR	0 sf	2/A0.1
SECOND FLOOR	677 sf	3/A0.1
TOTAL AREA	677 sf	

11. ENERGY COMPLIANCE

11.1 CLIMATE ZONE: (per table C301.1) BOULDER COUNTY = 5A

11.2 OPAQUE THERMAL ENVELOPE REQUIREMENTS: (per table C402.1.3) ROOF: INSULATION COMPLETELY ABOVE = R-30ci ROOF: ATTIC AND OTHER = R-38 WALLS ABOVE GRADE: METAL FRAMED AND OTHER = R-13 + 13ci WALLS ABOVE GRADE: WOOD FRAMED = R-13 + 3.8 ci OR R-20 SLAB-ON-GRADE FLOORS: UNHEATED SLAB = R-10 FOR 24" BELOW

OPAQUE DOORS: SWINGING = U-0.61 OVERHEAD DOORS <14% GLAZED: U-0.31 11.3 BUILDING ENVELOPE REQUIREMENTS: FENESTRATION (per table C402.3) VERTICAL FENESTRATION:

FIXED FENESTRATION = U-0.38 **OPERABLE FENESTRATION = U-0.45** 

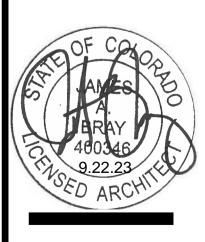
ENTRANCE DOORS = U-0.77 SHGC = 0.36











202305

09/22/23

SHEET TITLE: LIFE SAFETY & CODE ANALYSIS

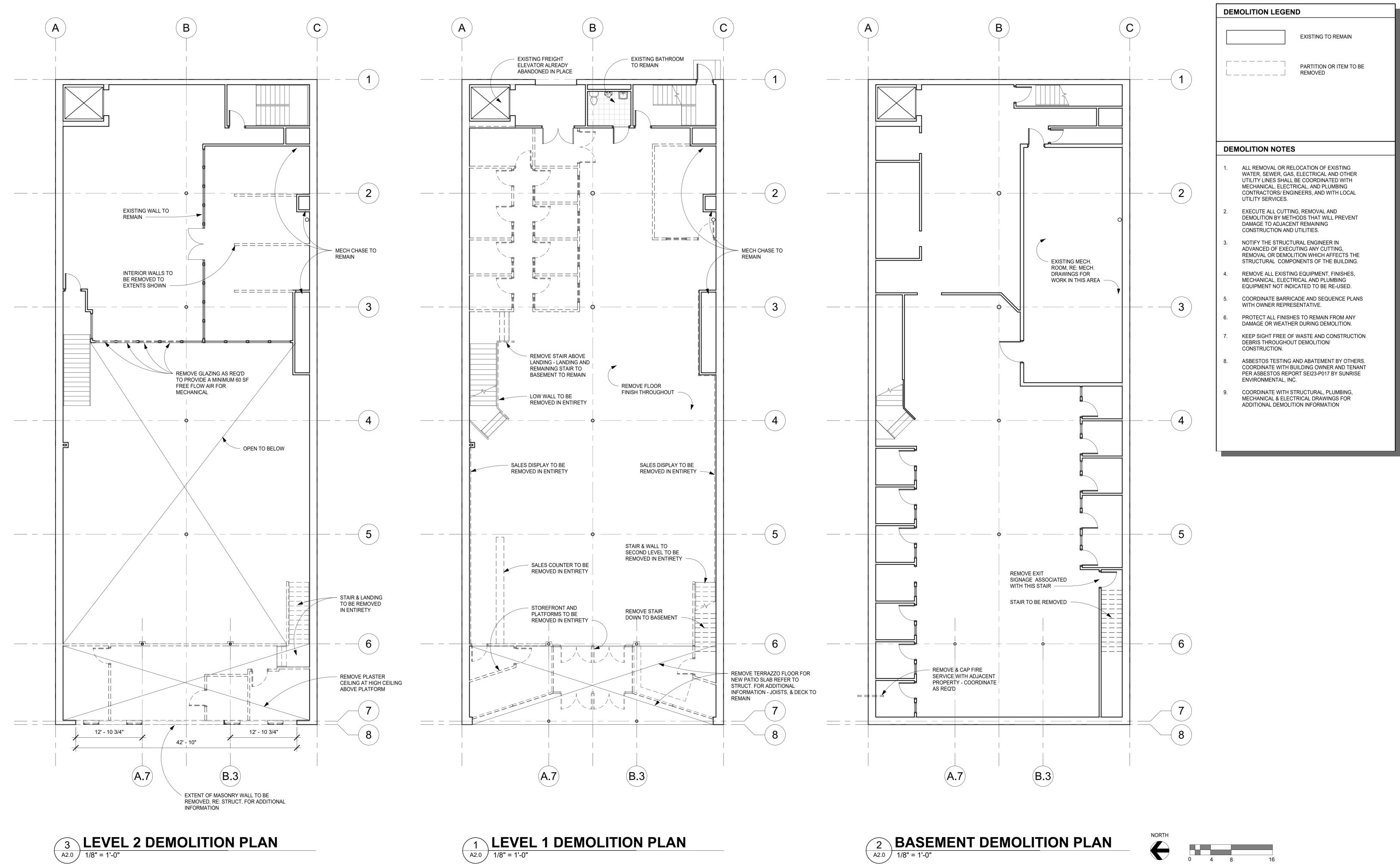
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PROJECT No:

ISSUE DATE:

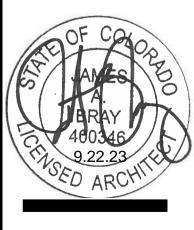
REVISIONS











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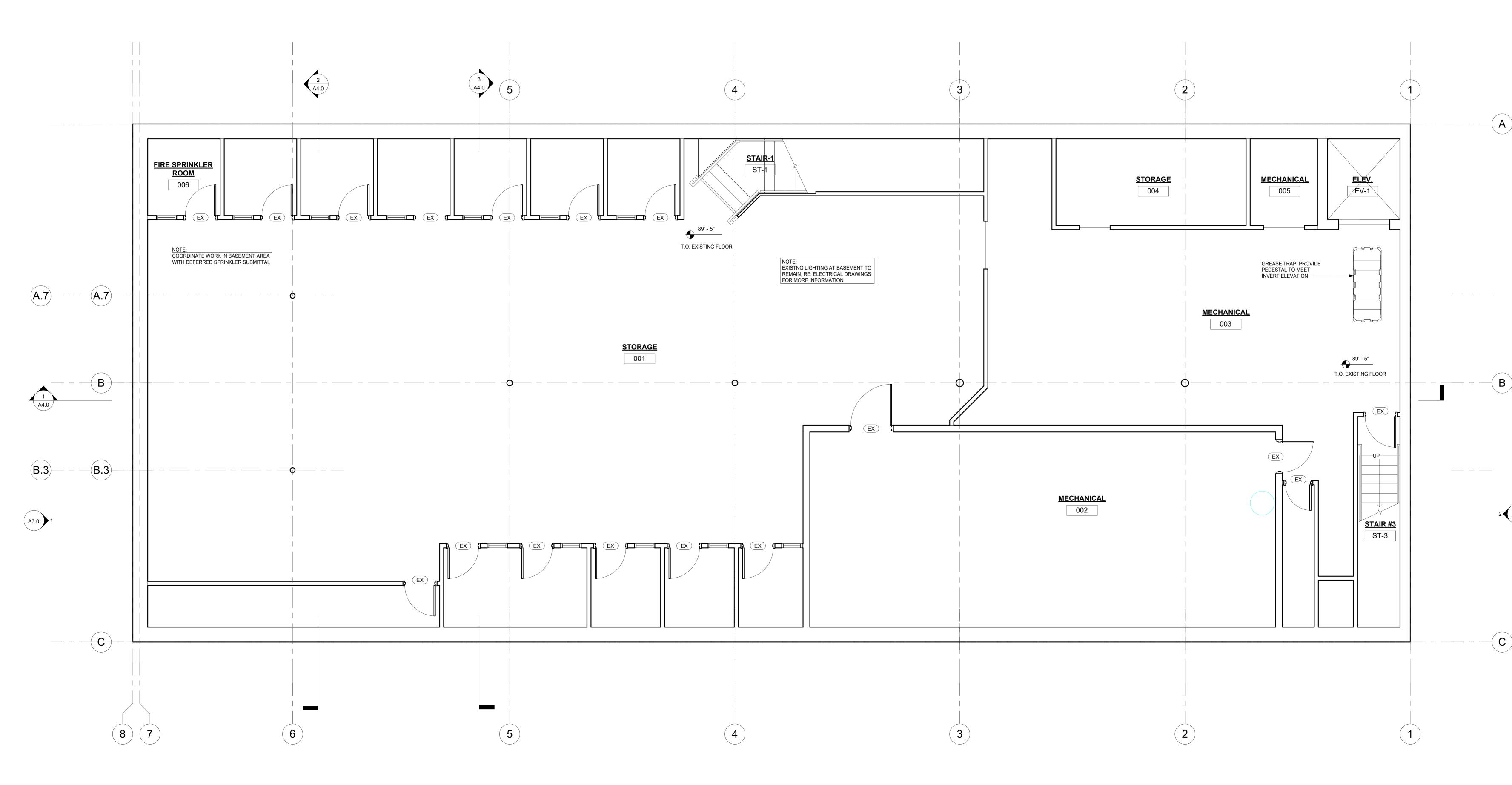
202305 09/22/23

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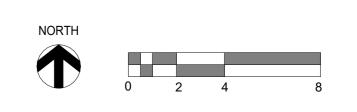
SHEET TITLE: DEMOLITION

PLANS









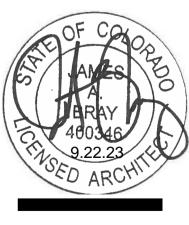




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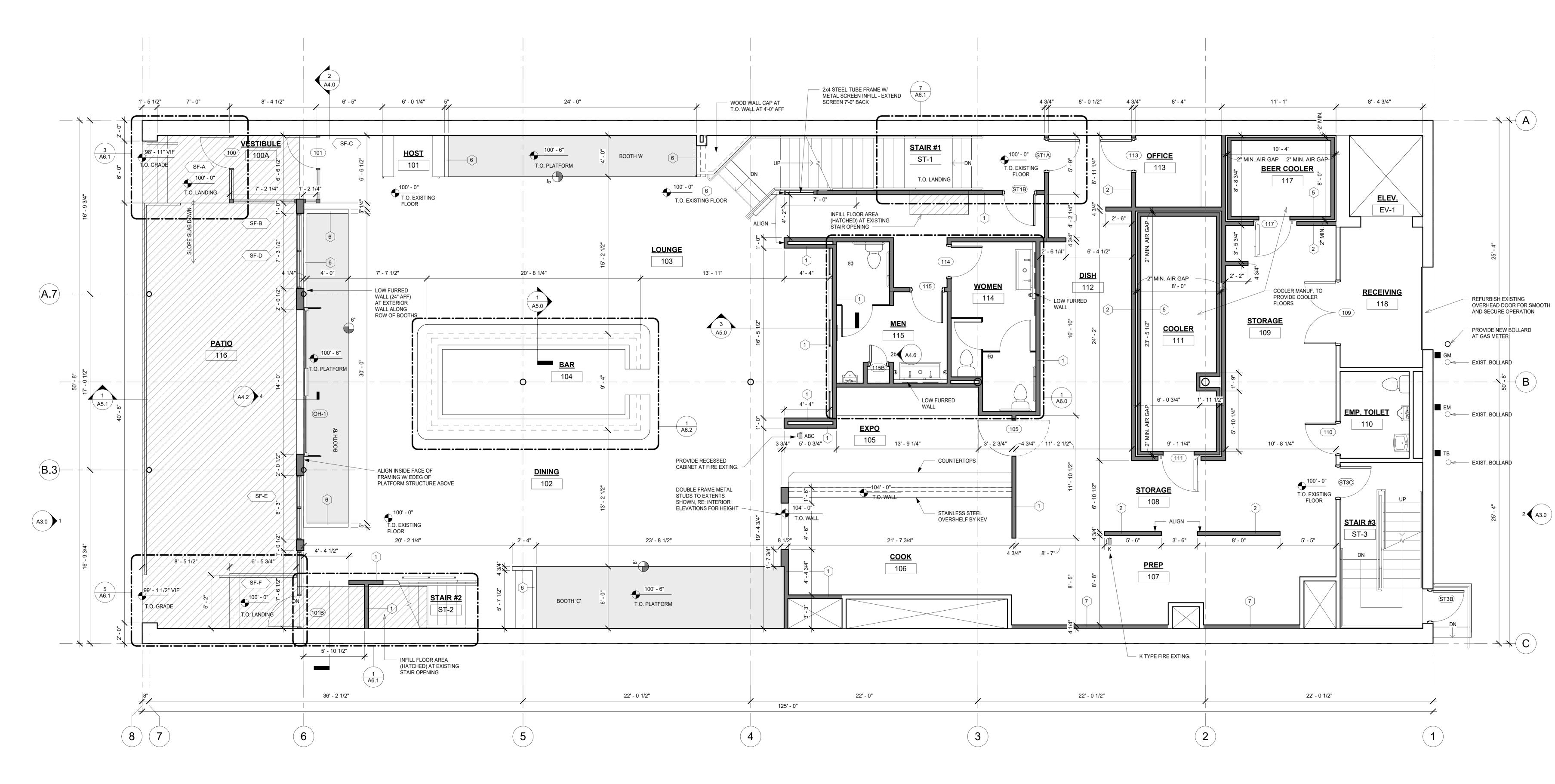
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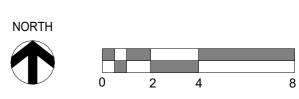
PROJECT No: 202305
ISSUE DATE: 09/22/23
REVISIONS:

SHEET TITLE: BASEMENT FLOOR PLAN



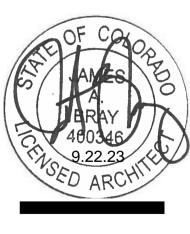


	WALL/ PARTITION TYPES	PLAN LEGEND
1.ALL DIMENSIONS ARE TO FINISH FACE OF SHEATHING AND DO NOT INCLUDE THE THICKNESS OF TILE, FRP, OR OTHER FINISH MATERIALS.8.1/2" CEMENT BOARD FROM FLOOR TO CEILING BEHIND HOODS, DISHWASHER & 3-COMPARTMENT SINK. EXTEND CEMENT BOARD MIN. 18" PAST HOODS ON EACH SIDE.	1. FULL HEIGHT PARTITION FROM FLOOR TO DECK, 3 5/8" STEEL STUDS AT 16" O.C., BRACE TO ADJACENT DECK AS REQUIRED.	FULL HEIGHT PARTITIONS
		PARTIAL HEIGHT PARTITIONS         COOLER WALL         EXISTING FULL HEIGHT WALLS         WINDOW TAG - REFER TO WINDOW SCHEDULE         XXX         DOOR TAG - REFER TO DOOR SCHEDULE         F.E.C.         Image: Coordinate Final Location with Fire Marshal









ISSUE DATE: 09/22/23 REVISIONS:

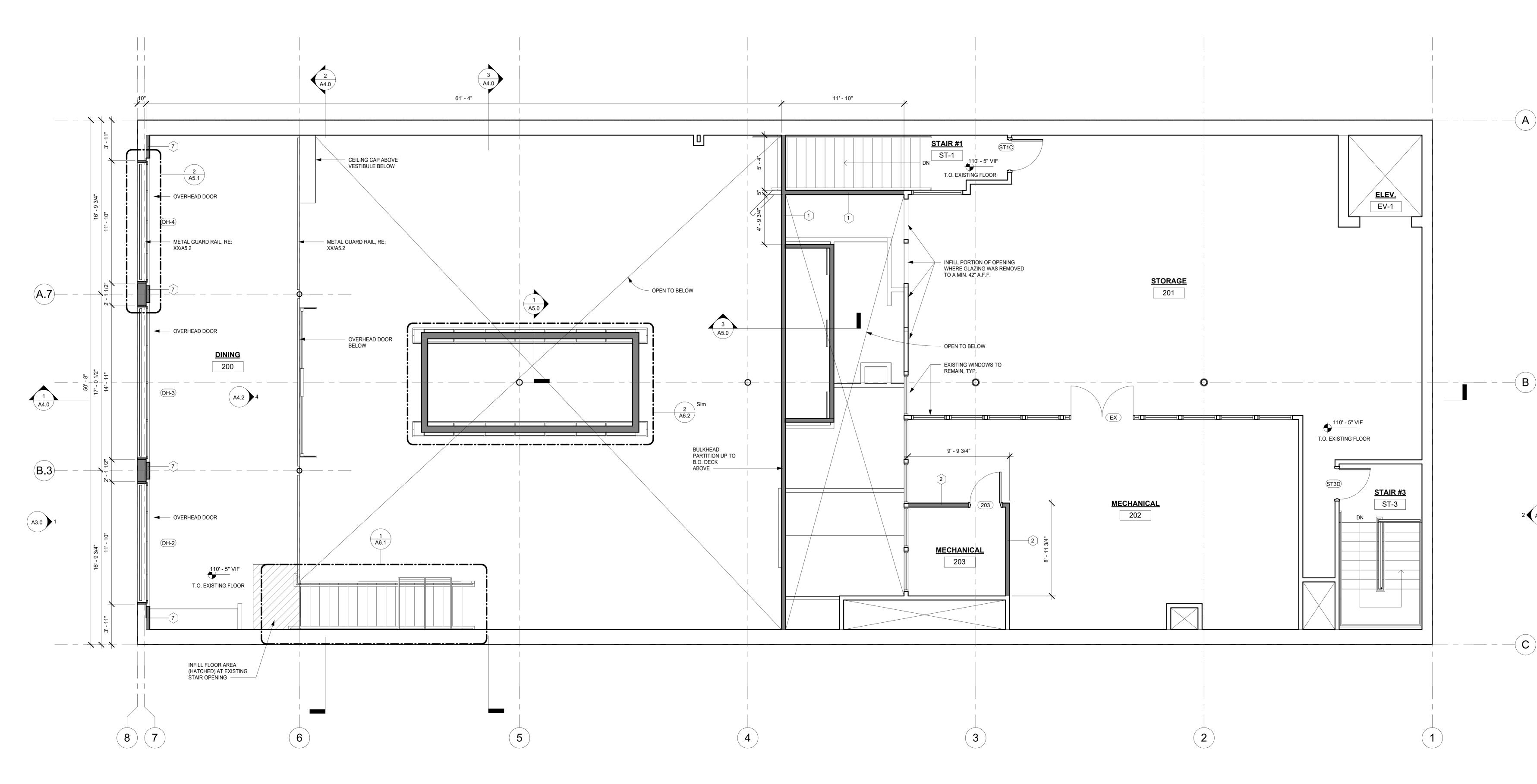
PROJECT No: 202305 ISSUE DATE: 09/22/23

SHEET TITLE: LEVEL 1 FLOOR PLAN

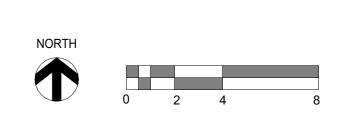
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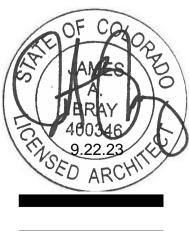






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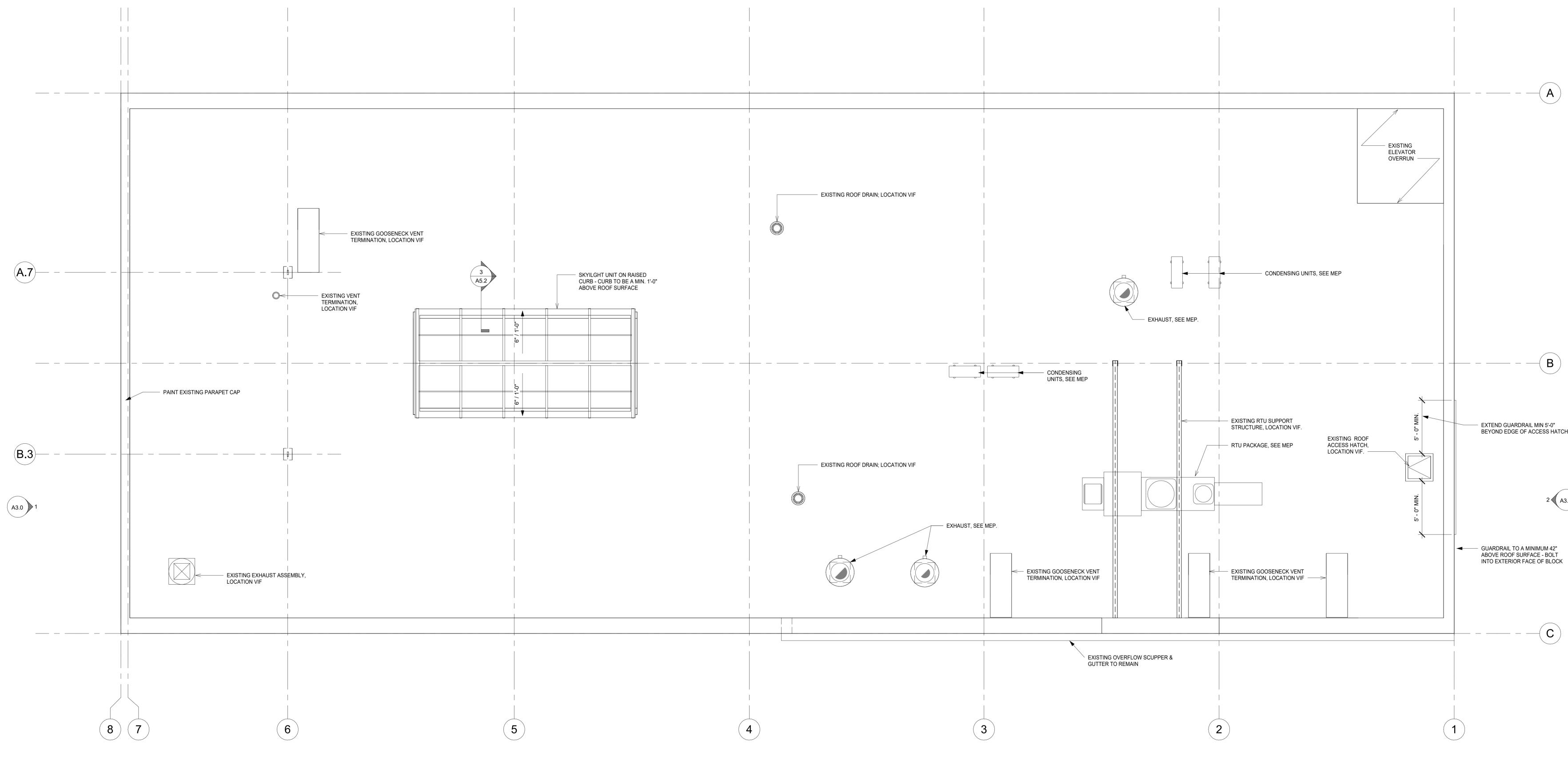
PROJECT No: 202305 ISSUE DATE: 09/22/23 REVISIONS: \_\_\_\_\_

SHEET TITLE: LEVEL 2 FLOOR PLAN

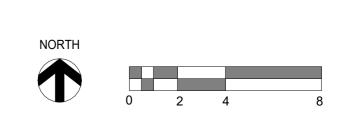
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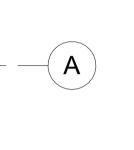


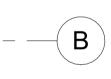










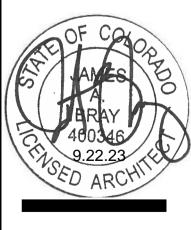


EXTEND GUARDRAIL MIN 5'-0"
 BEYOND EDGE OF ACCESS HATCH

2 A3.0

**C** 





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PROJECT No: 202305
ISSUE DATE: 09/22/23
REVISIONS:

SHEET TITLE:

ROOF PLAN



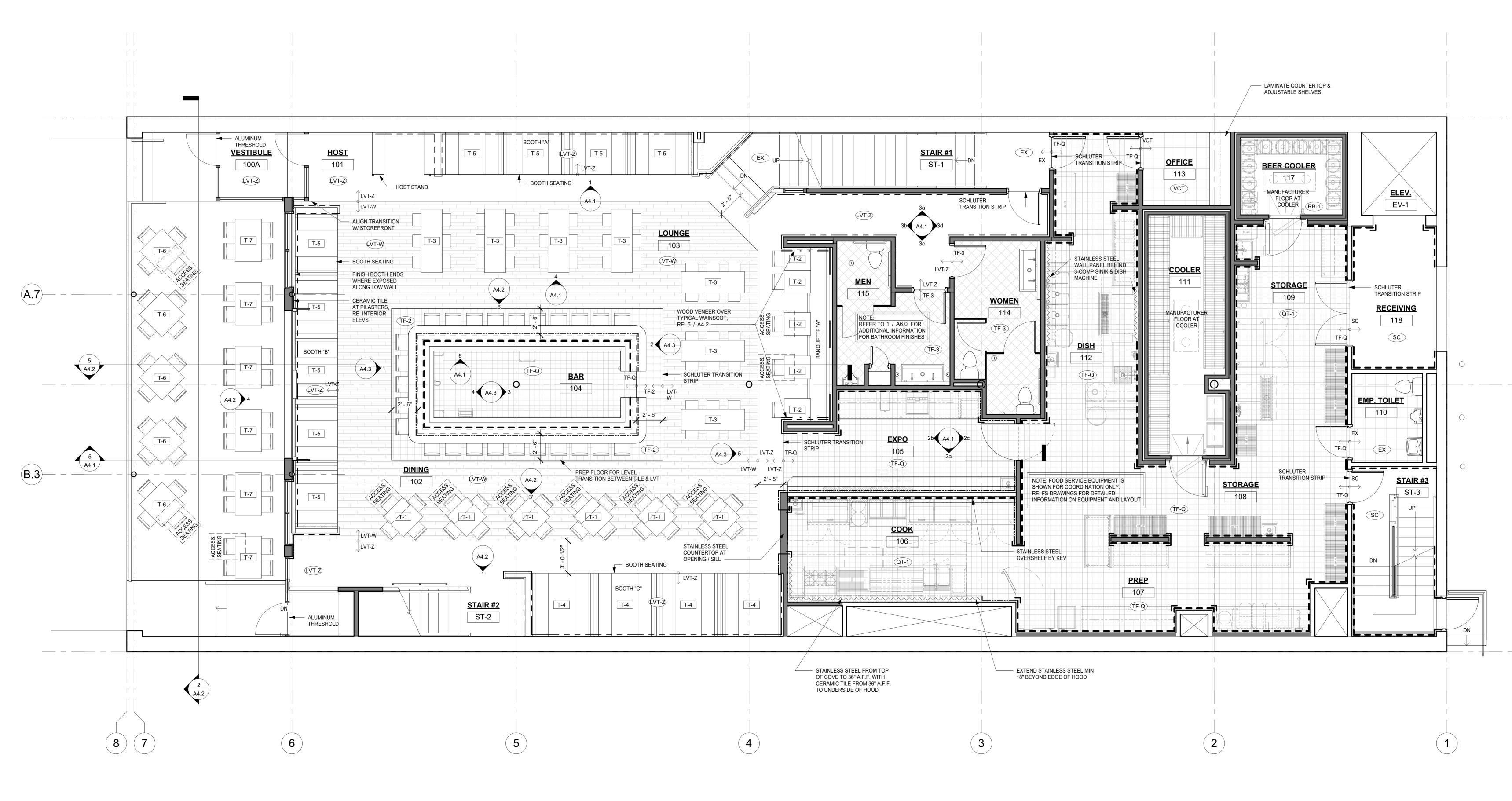
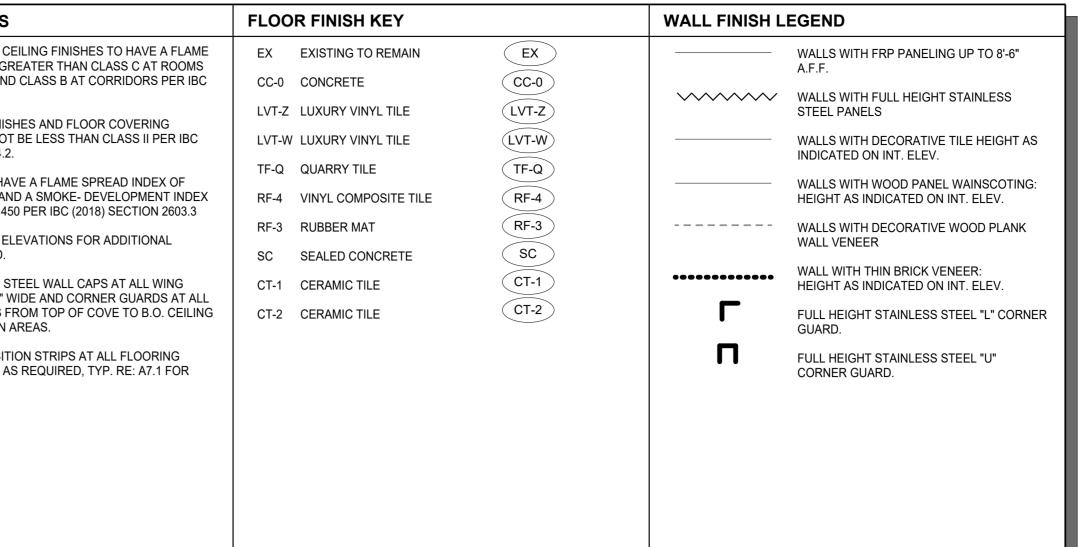
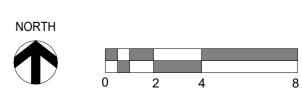


TABLE & SEATING LEGEND				SEATING SUMMARY			WALL FINISH NOTES			
TABLE	DESCRIPTION	HEIGHT	QUANTITY	BASE	SEATS	ТҮРЕ	TABLES	SEATS	1.	INTERIOR WALL AND CEI
τ.		30"				BAR / LOUNGE				SPREAD INDEX NOT GRE
T-1	28" x 28" FREESTANDING TABLE		6	-	-	STOOLS	-	25		AND ENCLOSURES AND C (2018) TABLE 803.13
T-2	30" x 26" FREESTANDING TABLE	30"	5	-	-	2 - TOPS	5	10		(2010) TABLE 000.10
T-3	72" x 24" FREESTANDING TABLE	36"	7	-	-	4 - TOPS 6 - TOPS	15	60	2.	INTERIOR FLOOR FINISH
T-4	72" x 30" BOOTH TABLE	30"	4	-	-	8 - TOPS		66 0		MATERIALS SHALL NOT B
T-5	48" x 30" BOOTH TABLE	30"	9	-	-	10 - TOPS	0	0 0		(2018) SECTION 804.4.2.
T-6	36" x 36" FREESTANDING PATIO TABLE	30"	5	-	-				3.	COOLER WALLS TO HAVE
T-7	48" x 30" FREESTANDING PATIO TABLE	30"	6	-	-	TOTAL	31	161		NOT MORE THAN 75 AND
T-8	48" x 30" TABLE	30"	5	-	-	PATIO SEATING			1	OF NOT MORE THAN 450
T-9	96" x 30" TABLE	30"	1	-	-	STOOLS	-	0	4.	REFER TO INTERIOR ELE
T-10	72" x 30" TABLE	30"	5	-	-	2 - TOPS 4 - TOPS	0	44		FINISHES OVERHEAD.
-	-	-	-		-	6 - TOPS	0	0		PROVIDE STAINLESS STE
-	-	-	-	-	-	8 - TOPS	0	0	5.	5. PROVIDE STAINLESS S WALLS LESS THAN 6" \
-	-	-	-	-	-	-				EXTERIOR CORNERS FRO
-	-	-	_	-	-	TOTAL	11	44	1	GRID AT ALL KITCHEN AR
-	-	-	-	-	-	TOTAL SEATING	42	205	6.	PROVIDE S.S. TRANSITIO
-	-	-	-	-	-	ALL TABLES TO CONFIRM TO	ANSI A117.1-2009 SEC	TION 902.2. 902.3 &	1	MATERIAL CHANGES AS PROFILES
-	-	-	-	-	-	902.4.		,,		FROFILES
-	-	-	-	-	-	REQUIRED ACCESSIBLE SEA	TINO			
NOT	TES: 1. VERIFY QUANTITY LISTED WITH TABL	ES SHOWN I	N PLAN BEFO	RE ORDEF	RING.	PER IBC 2018, SECTION 1108. DINING: = 161 SEATS >				



LEVEL 1 FURNITURE & FINISHPLAN A2.5 / 1/4" = 1'-0"

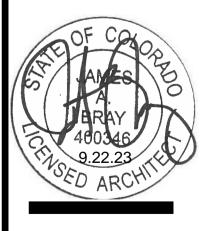






 $(\mathbf{A})$ 

—(**C**)



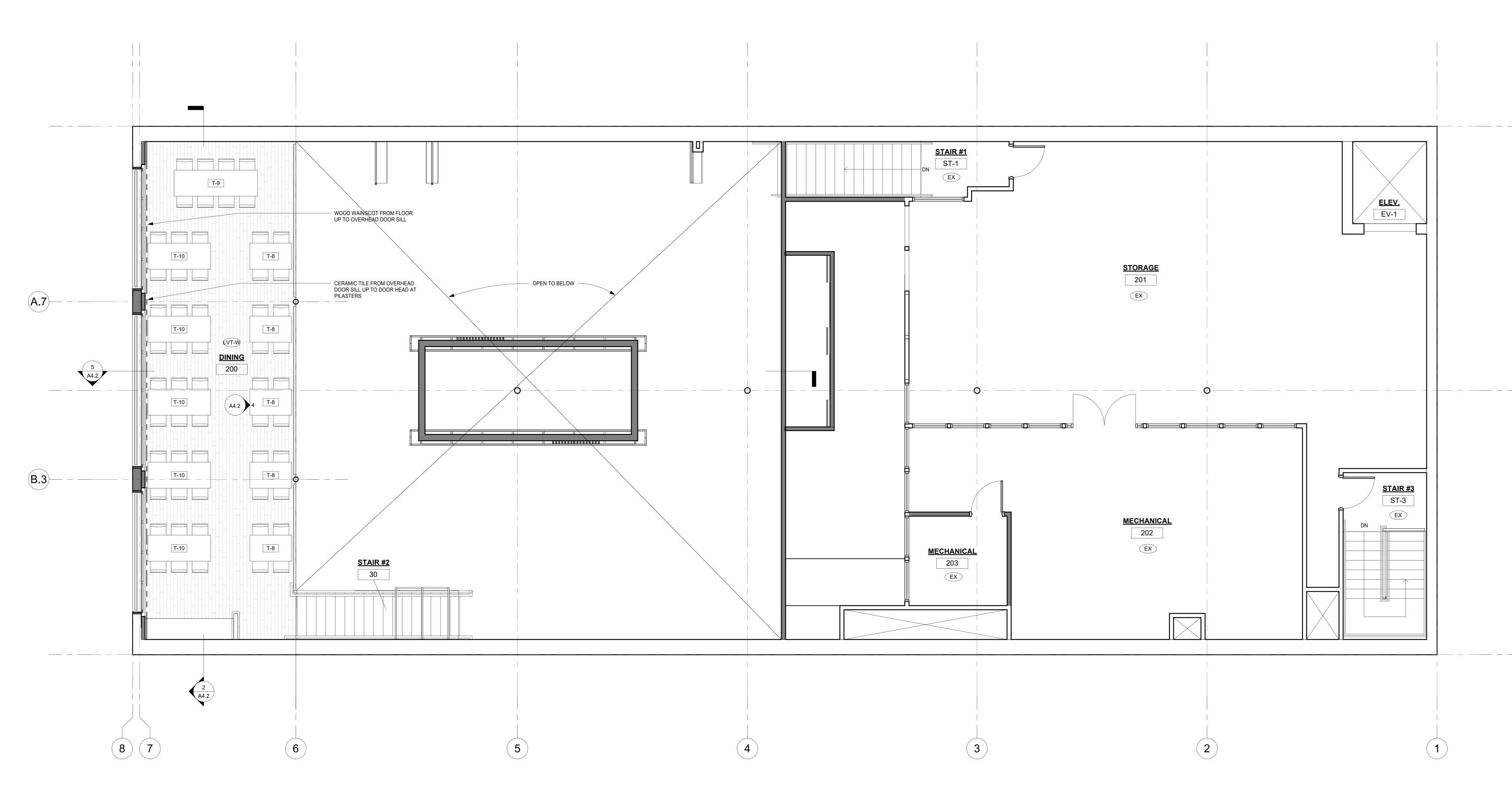
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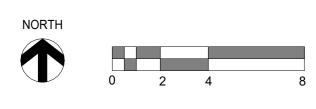
PROJECT No: 202305 ISSUE DATE: 09/22/23 REVISIONS:

SHEET TITLE: LEVEL 1 FURNITURE & FINISH PLAN













( A )

B

-**C** 

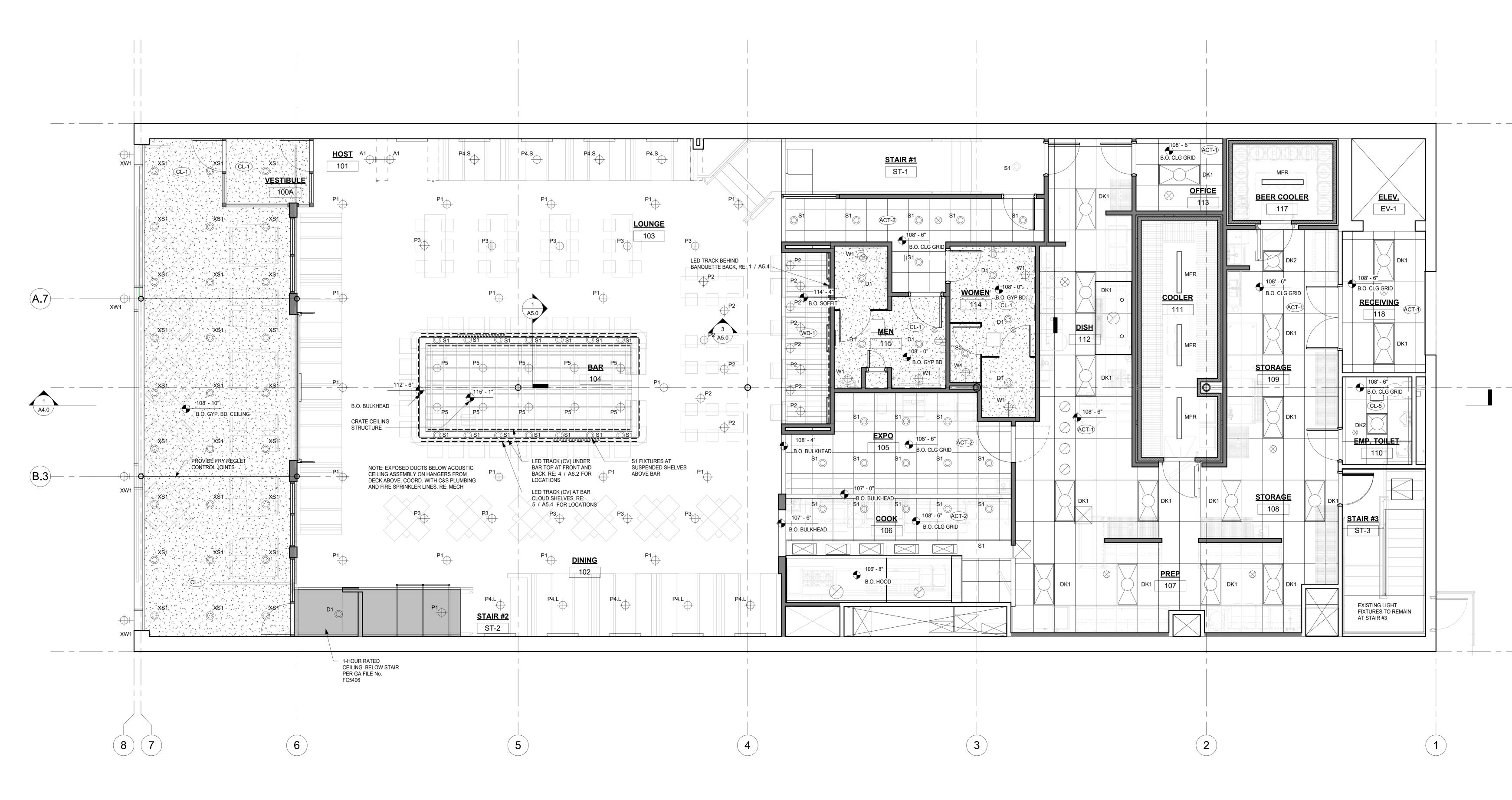


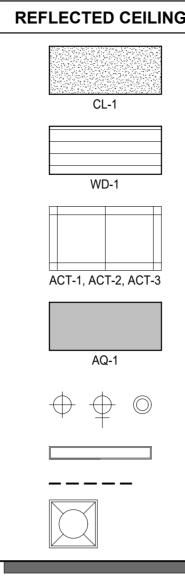
PROJECT No: 202305 ISSUE DATE: 09/22/23 REVISIONS:

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SHEET TITLE: LEVEL 2 FURNITURE & FINISH PLAN







GLEGEND		REI	REFLECTED CEILING NOTES			
PAINTED TYPE 'X' GYP. BD. CEILING - HEIGHT AS INDICATED	SP	EXIT SIGN SPEAKER	1.	CENTER LIGHT FIXTURES IN SPACES AND CORRIDORS UNLESS NOTED OTHERWISE. ALL LIGHTING AND FIXTURE DIMENSIONS ARE TO CENTER		
WOOD SOFFIT	<u> </u>	CAMERA RESTROOM EXHAUST FAN	2.	LINE UNLESS NOTED OTHERWISE ALL SPRINKLER HEADS IN GYPSUM BOARD CEILINGS TO BE FULLY RECESSED. ALL SIGNAGE UNDER SEPARATE PERMIT.		
VINYL CEILING TILES: ACT-1 TIN CEILING TILES: ACT-2 ACOUSTICAL CEILING TILE: ACT-3			6. 4.	'MFR' INDICATES NEW FIXTURE PROVIDED BY MANUFACTURER ALL DUCTWORK, ELECTRICAL & PLUMING LINES, AND EXPOSED CEILING STRUCTURE IS TO BE PAINTED .		
ACOUSTIC CEILING PANELS			5. 8.	SEE ELECTRICAL FOR FIXTURE KEY AND LUMINAIRE SCHEDULE, TYP. COORDINATE LOCATIONS OF EXIT AND EMERGENCY LIGHTS WITH ELECTRICAL DRAWINGS.		
LIGHT FIXTURES						
			l			

## LEVEL 1 REFLECTED CEILING PLAN A2.7 / 1/4" = 1'-0"





( A )

B

**C** 



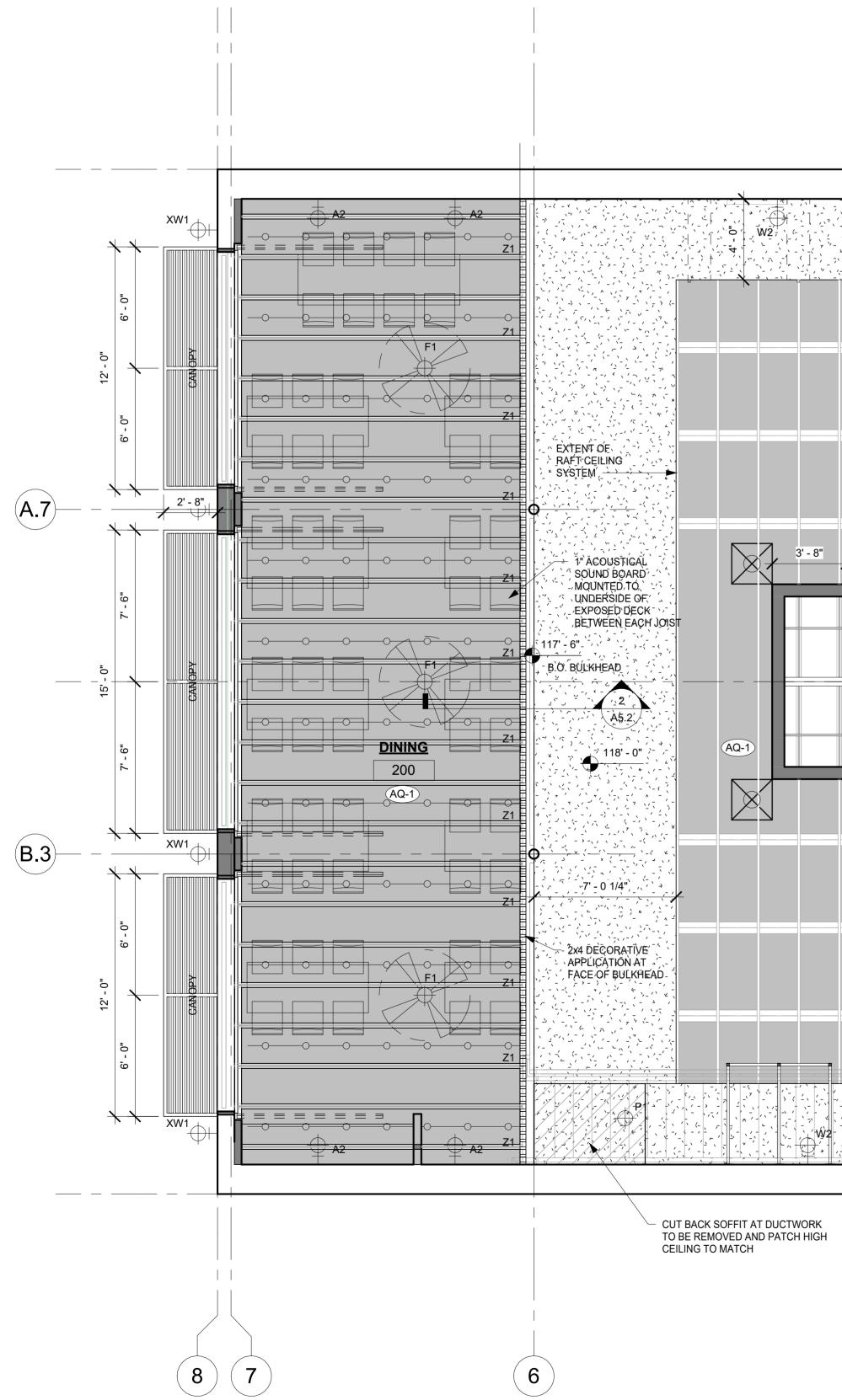
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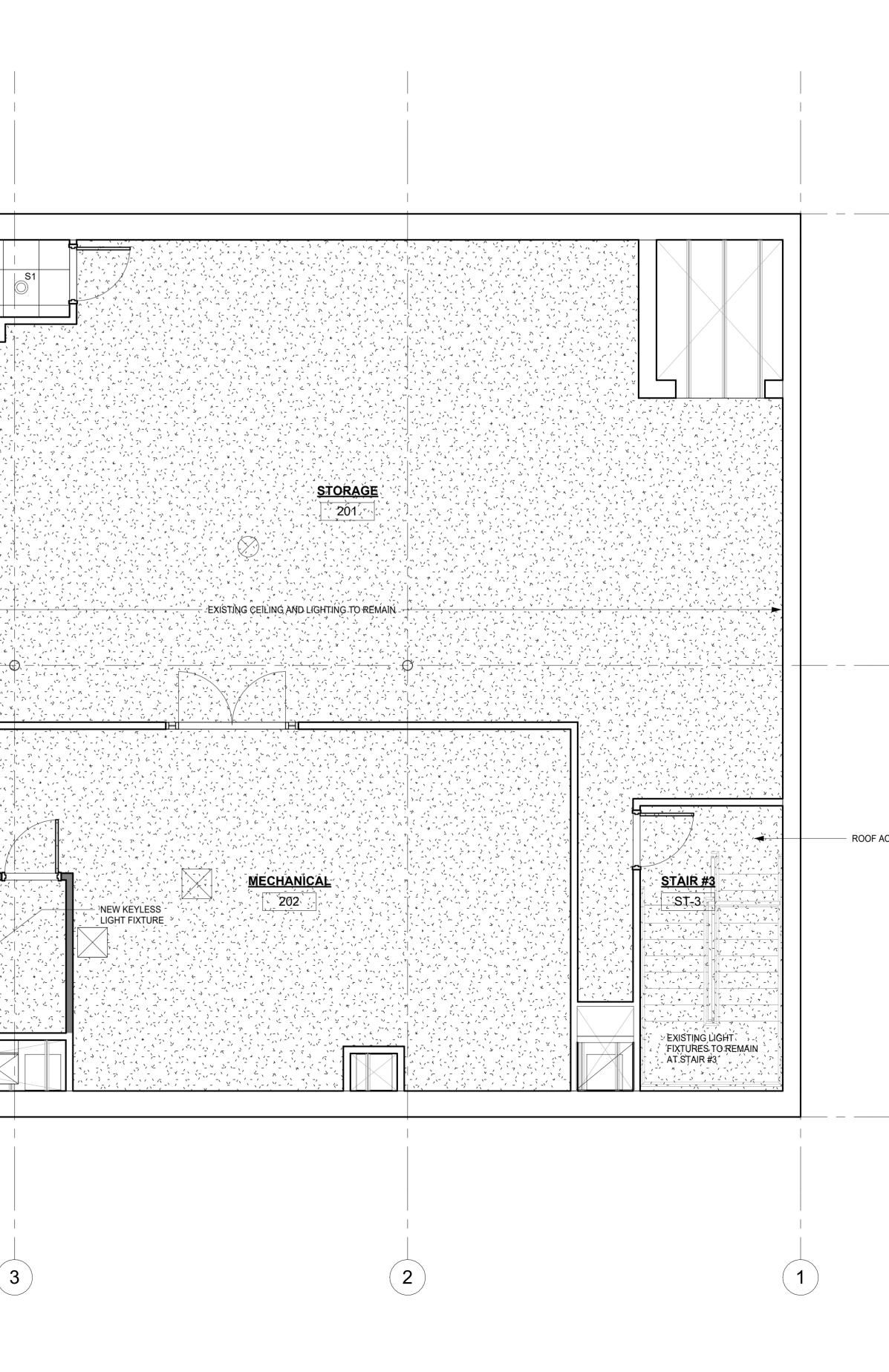
PROJECT No: SSUE DATE: REVISIONS:

SHEET TITLE: LEVEL 1 REFLECTED CEILING PLAN



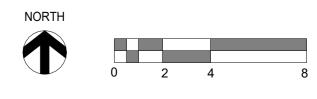


	AIRCRAFT CABLE; SEE DETAIL, RE	1 / A5.2	N2 (			
			2 x -x		•	
						$\begin{bmatrix} z & z & 0 & \sqrt{z} & \sqrt{z} & \sqrt{z} & \sqrt{z} \\ \gamma & \gamma \\ \gamma & \gamma &$
N						
e l					· · · · · · · · · · · · · · · · · · ·	
1/4" TYP.	1" ACOUSTIC PANEL (CL-7), SITTING ON T.O. 2x12 RAFT					
4 1/	CEILING, RE: 1 / A5.2			· · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , ,	
4						
0 .c. 4' - 6"						
		HVAC SUPPLY REGISTERS				
		AT ACOUSTIC CLG PANEL AT RAFT CEILING;				
		COORDINATE PENTRATION AND REGISTER WITH RAFT				
		CLG STRUCTURE				
				= = = = = =		
		— — — — — — — — — — — — — — — — — — —				
	A5.0 PREFABRICATED SKYLIGHT					
			* `_ ` `_ `, = '			
			¥ 			
0	4' - 6" 3' - 8"					
4 1/4" TYP.		ATIVE APPLICATION				
4 1/4			1' - 4 1/2" ``			$\begin{bmatrix} \gamma_{1} & \gamma_{2} & \gamma_{3} & \gamma_$
-4						
	NOTE: EXPOSED DUCTS BELOW ACOUSTIC CEILING ASSEMBLY ON HANGERS FROM					<u>203</u>
	DECK ABOVE. COORD. WITH C&S PLUMBING AND FIRE SPRINKLER LINES. RE: MECH	v	N2	, - 、, - <sup></sup> , · - <sup>-</sup> , · · · · · · · · · · · · · · · · · · ·		
	I					
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	×2 → 1			
	B.O. EXISTING SOFFIT	ν καταπτικά του				
· · · · · · · · · · · · · · · · · · ·	₩2 	· · · · · · · · · · · · · · · · · · ·	· · 、 <sup>™</sup> / - 、 		X	
		$\frac{1}{2} \left( \frac{1}{2} + 1$	<u> </u>	, -; \- \ , , 2 \ -		
	I					
	5	4				



## LEVEL 2 REFLECTED CEILING PLAN A2.8 / 1/4" = 1'-0"

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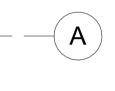
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PROJECT No: SSUE DATE: 09/22/23 REVISIONS:

SHEET TITLE: LEVEL 2 REFLECTED CEILING PLAN

SHEET NUMBER:







ROOF ACCESS HATCH

**C** 





Architecture 1300-C Yellow Pine Boulder, CO 80304

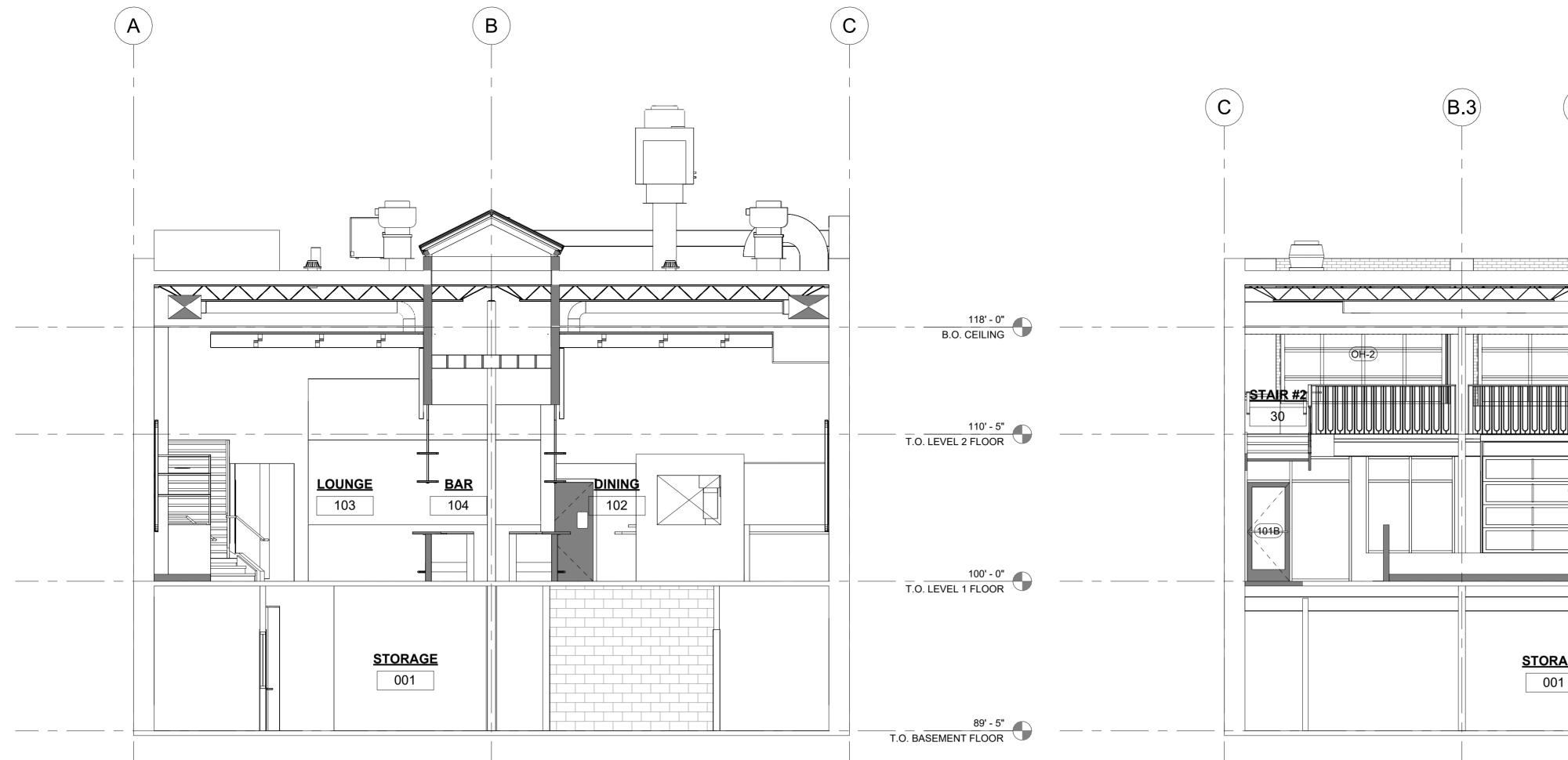
460 MAIN STREET LONGMONT, COLORADO

9.22.23

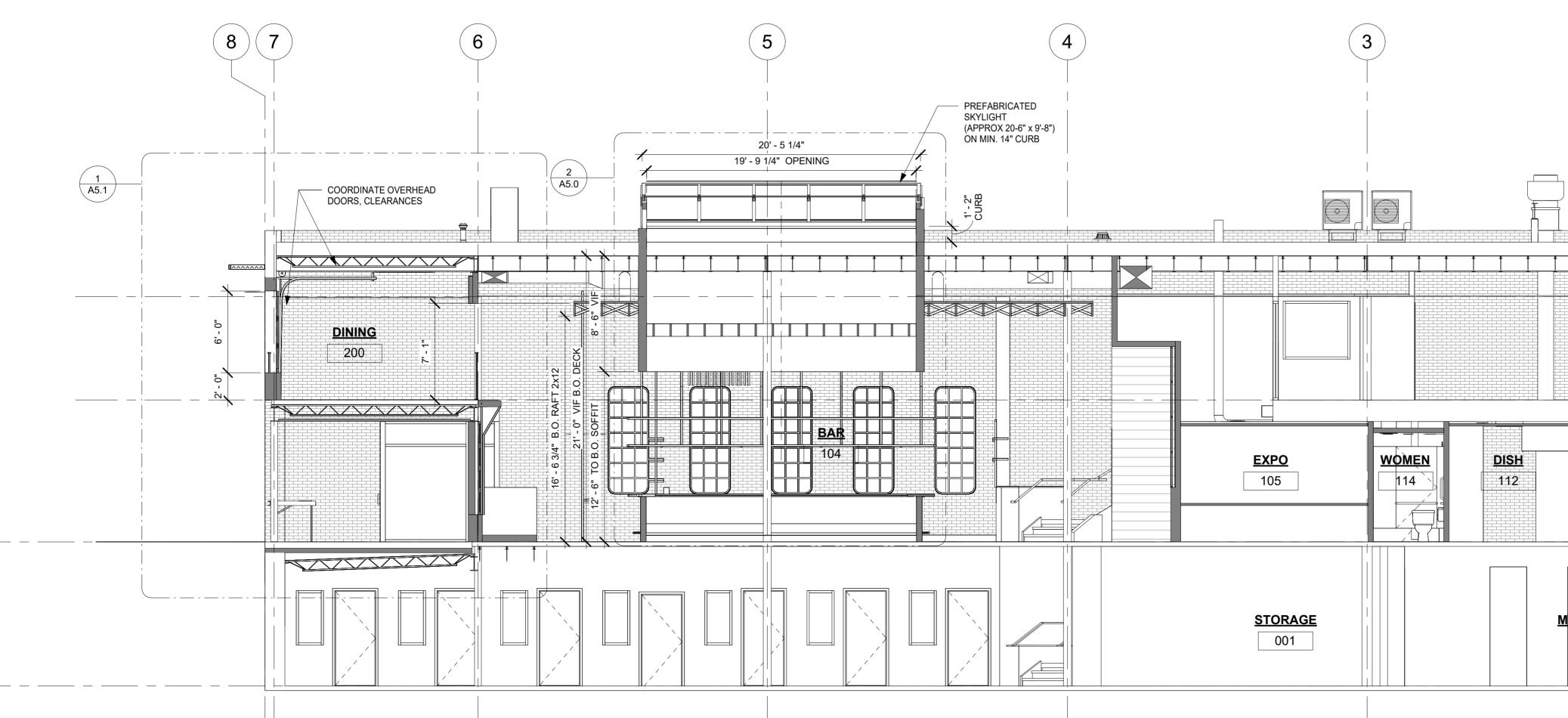
PROJECT No 202305 09/22/23

EXTERIOR ELEVATIONS

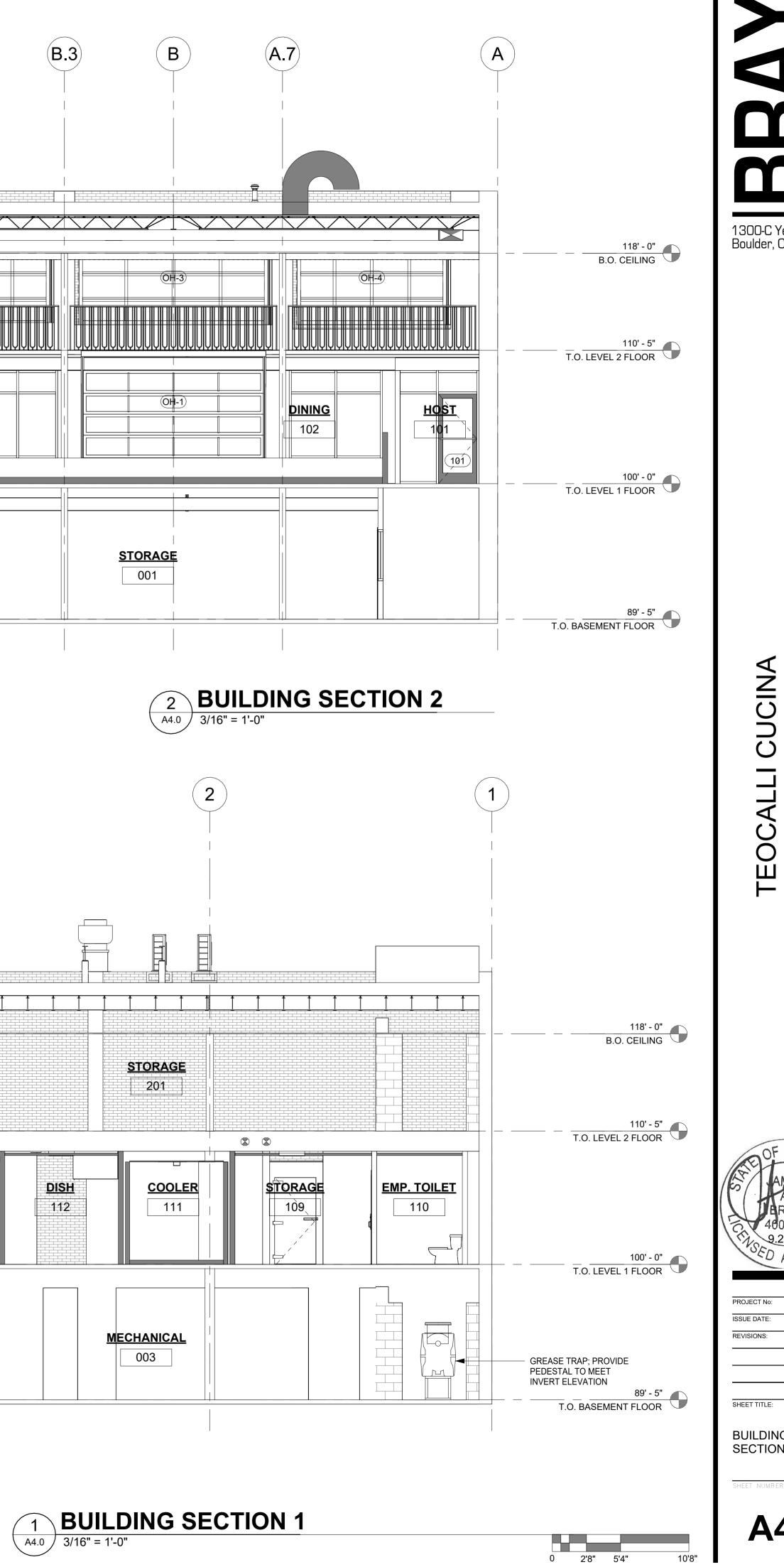
A3.0







# 3 **BUILDING SECTION 3** A4.0 3/16" = 1'-0"

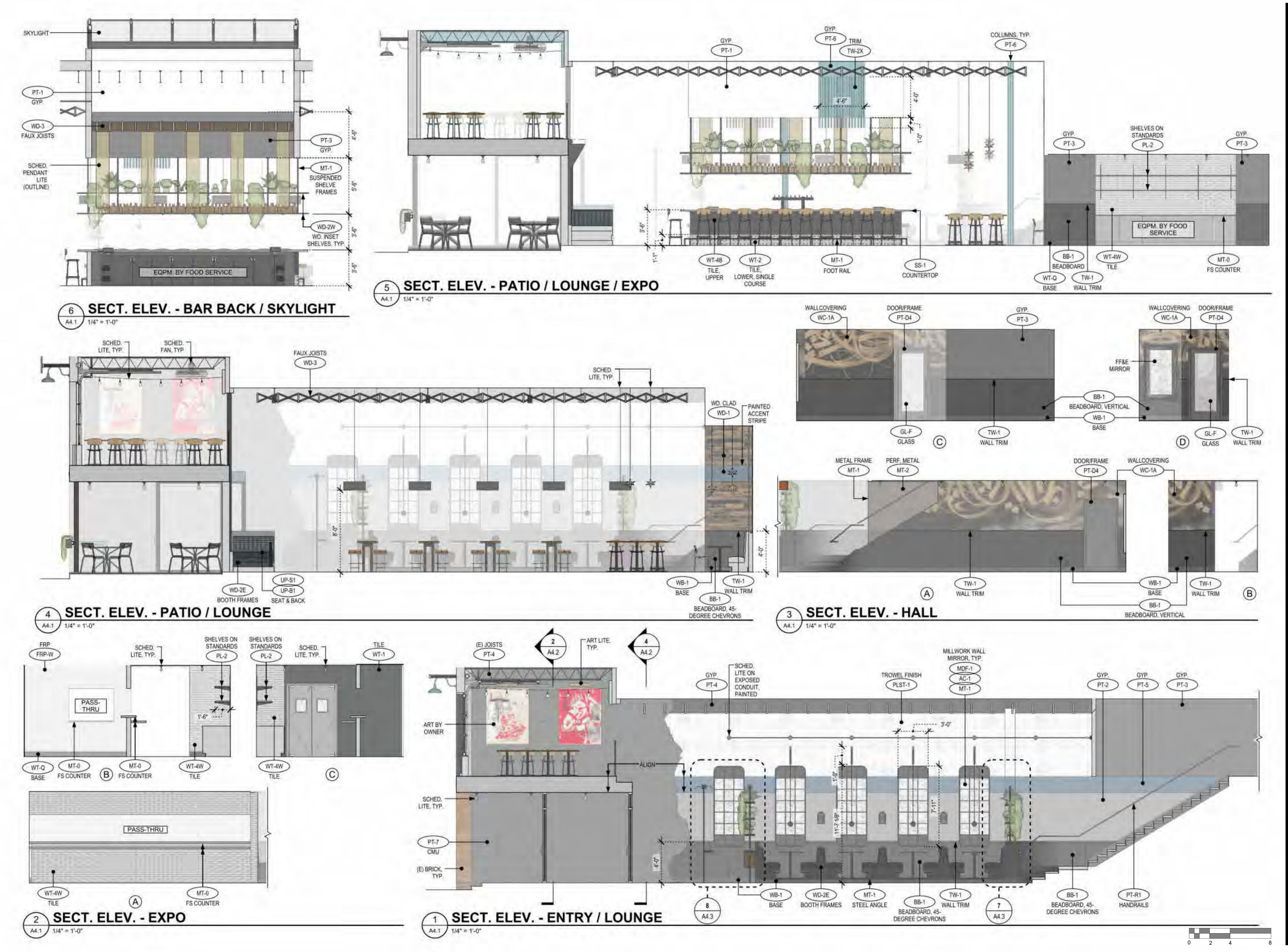


Architecture, 1300-C Yellow Pine Boulder, CO 80304

460 MAIN STREET LONGMONT, COLORADO

ROJECT N 202305 09/22/23 SHEET TITLE:

BUILDING SECTIONS



TEOCALLI CUCINA 460 MAIN STREET LONGMONT, COLORADO

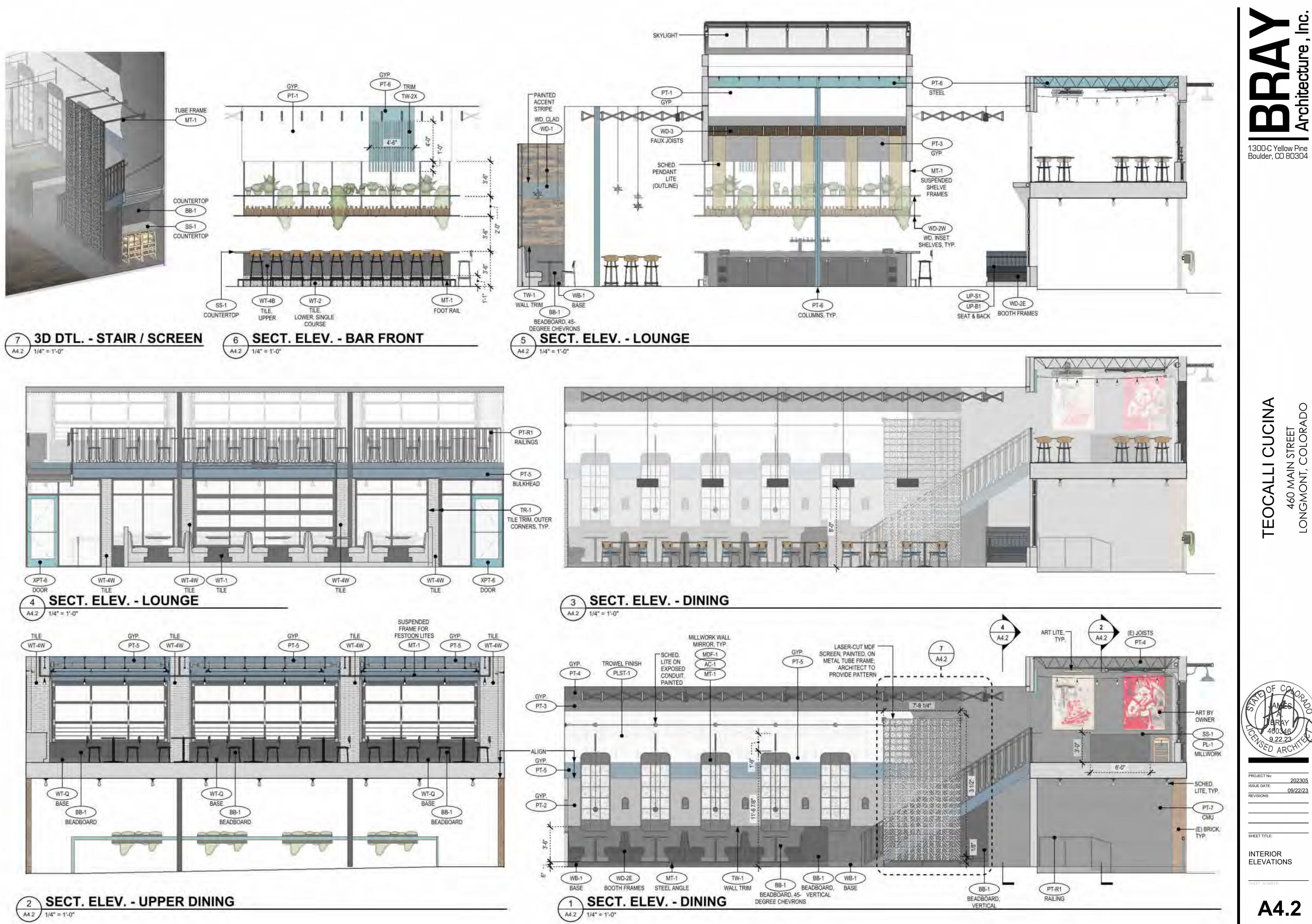
Architect

1300-C Yellow Pine Boulder, CO 80304



PROJECT No: 202305
ISSUE DATE: 09/22/23
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SHEET TITLE:

INTERIOR ELEVATIONS



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	09/22/23
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SHEET TITLE:	

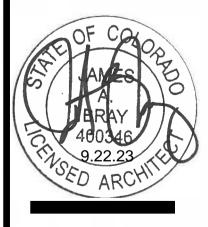








CUCINA 460 MAIN STREET LONGMONT, COLORADO TEOCA



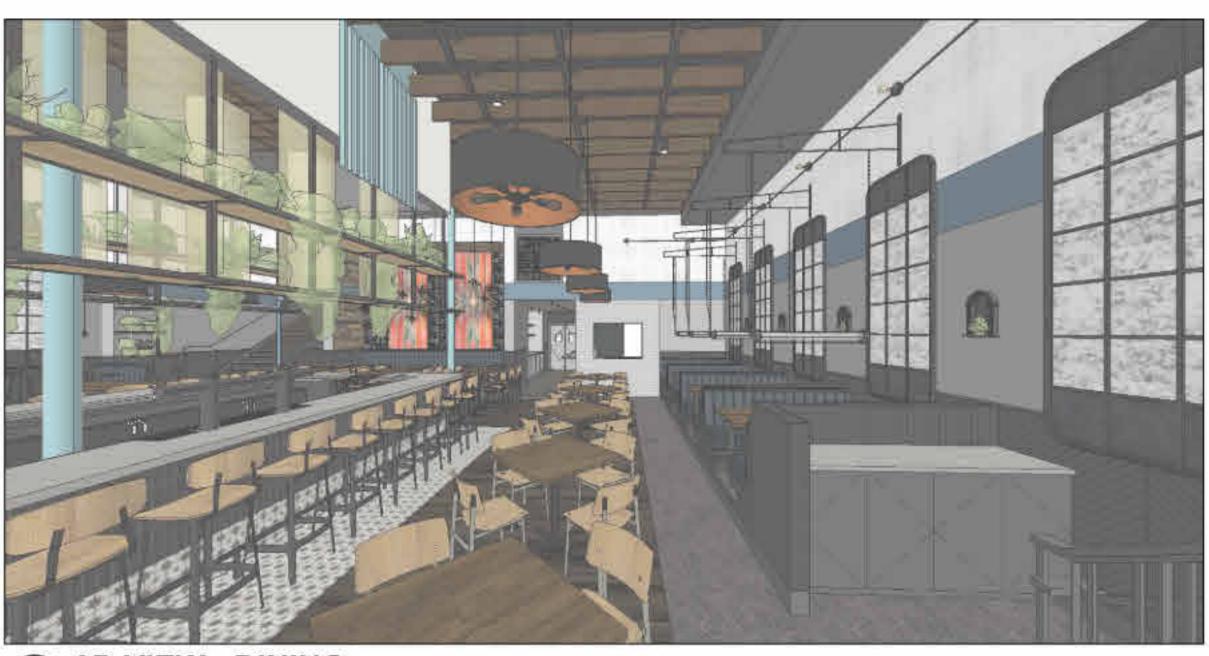
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	202305
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REVISIONS:	

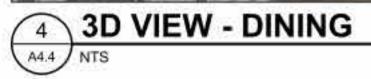
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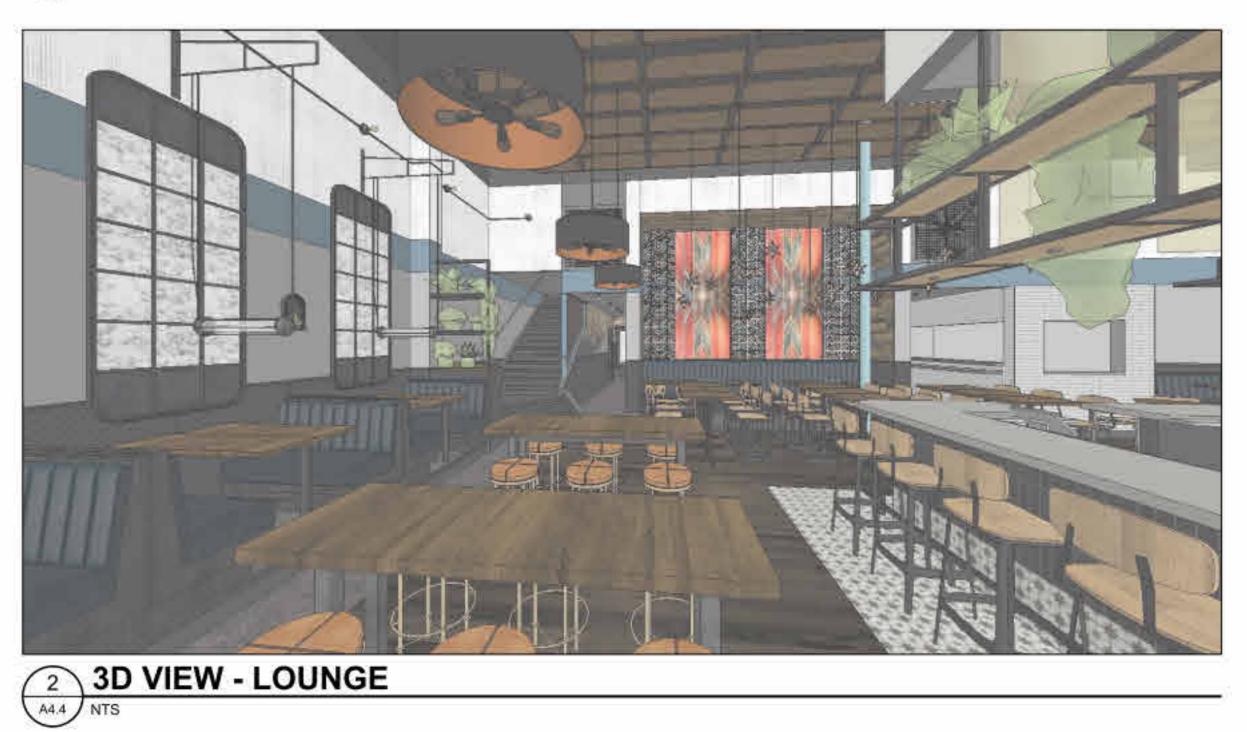
INTERIOR ELEVATIONS

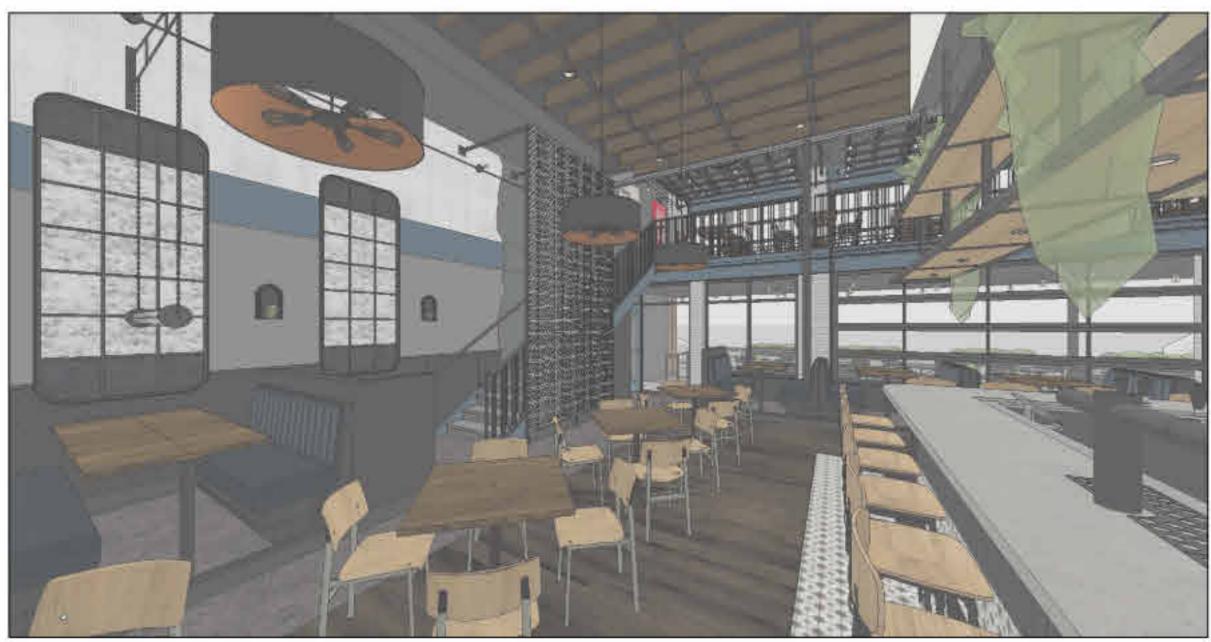


6 A4.4 NTS









5 A4.4 NTS

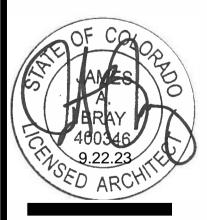








TEOCALLI CUCINA 460 MAIN STREET LONGMONT, COLORADO



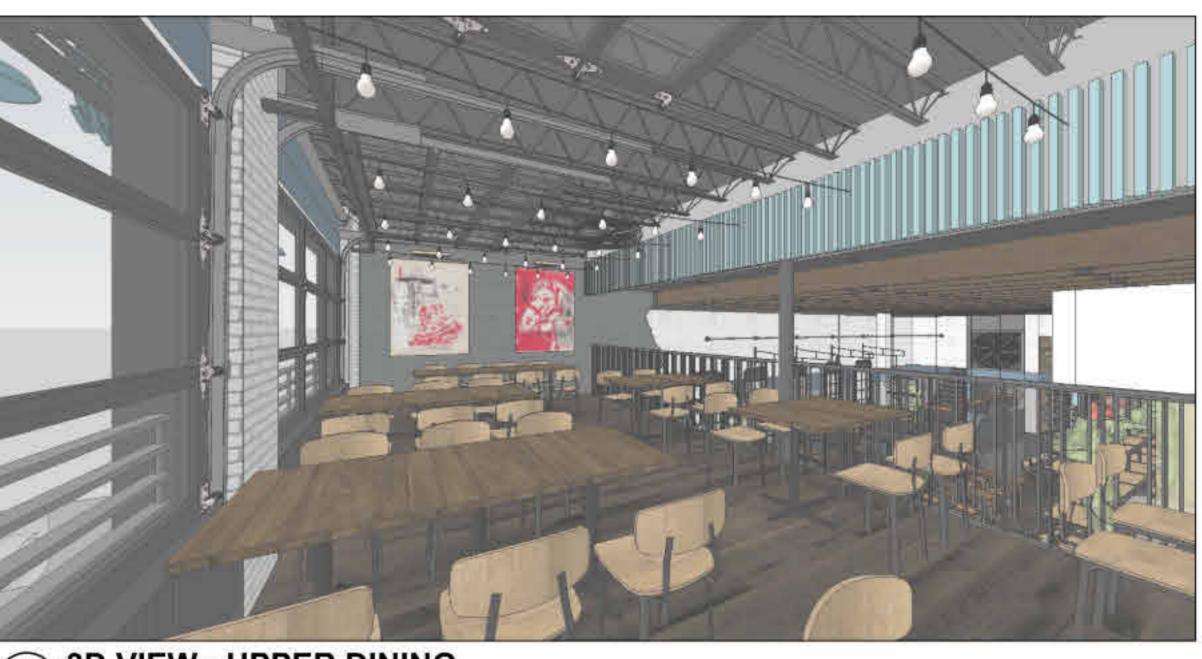
PROJECT No:	
	202305
ISSUE DATE:	
	09/22/23
REVISIONS:	
REVISIONS:	09/22/23

INTERIOR PERSPECTIVES

SHEET TITLE

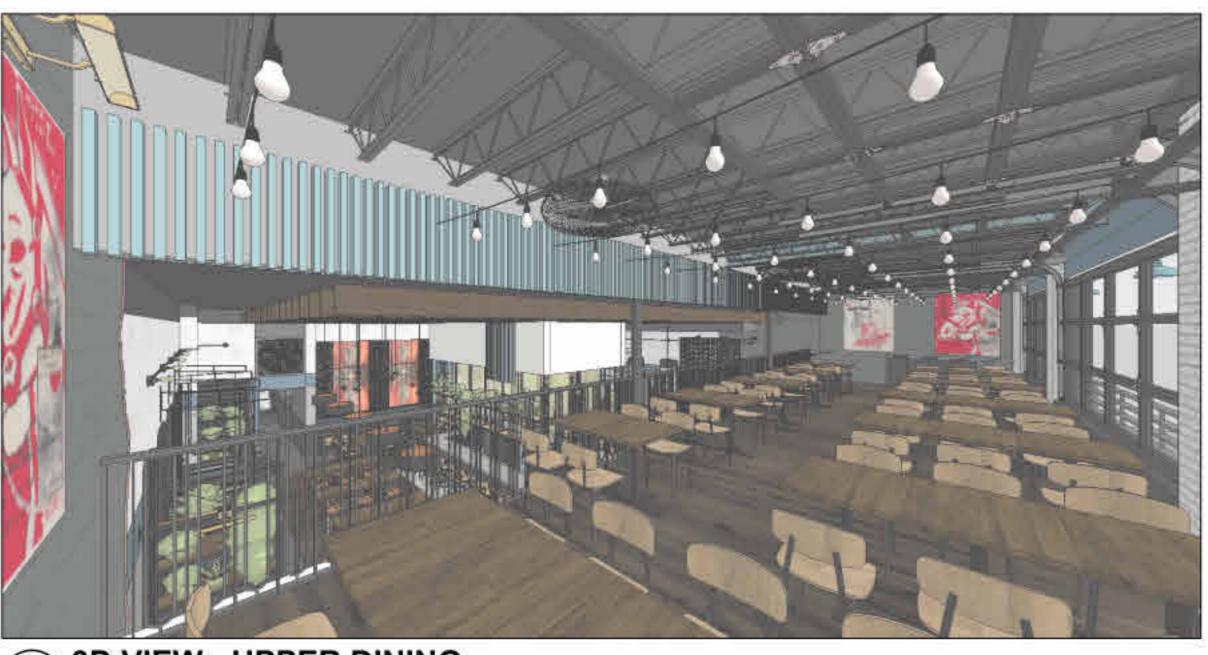


6 A4.5 NTS

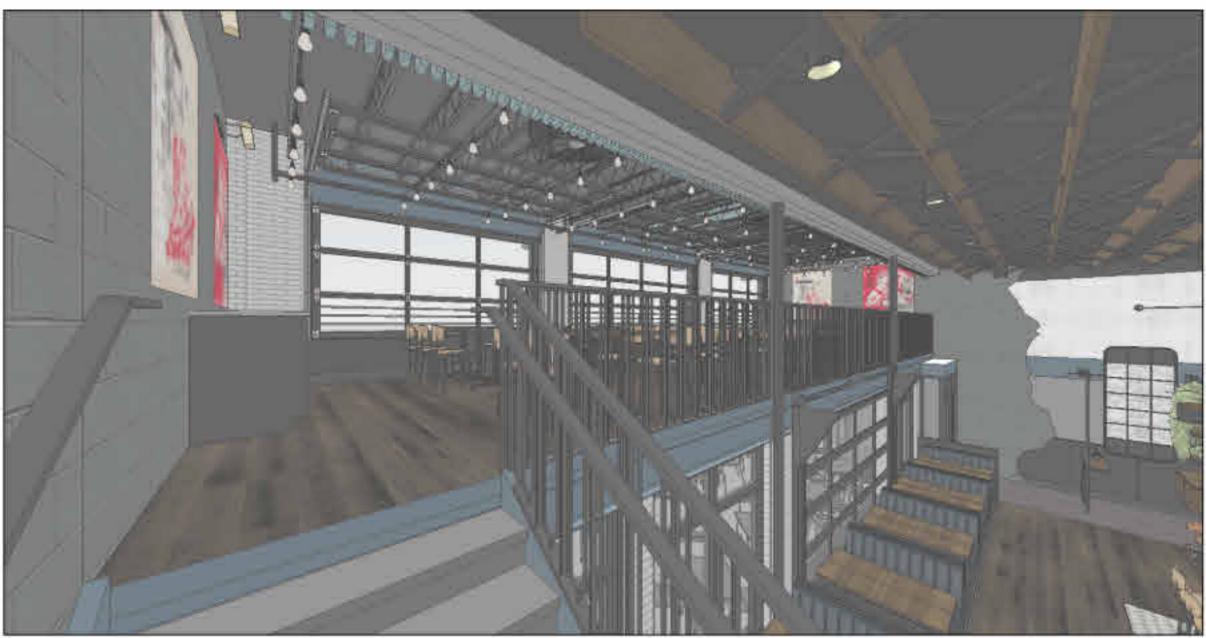








5 A4.5 NTS







1 3D VIEW - LOUNGE / EXPO



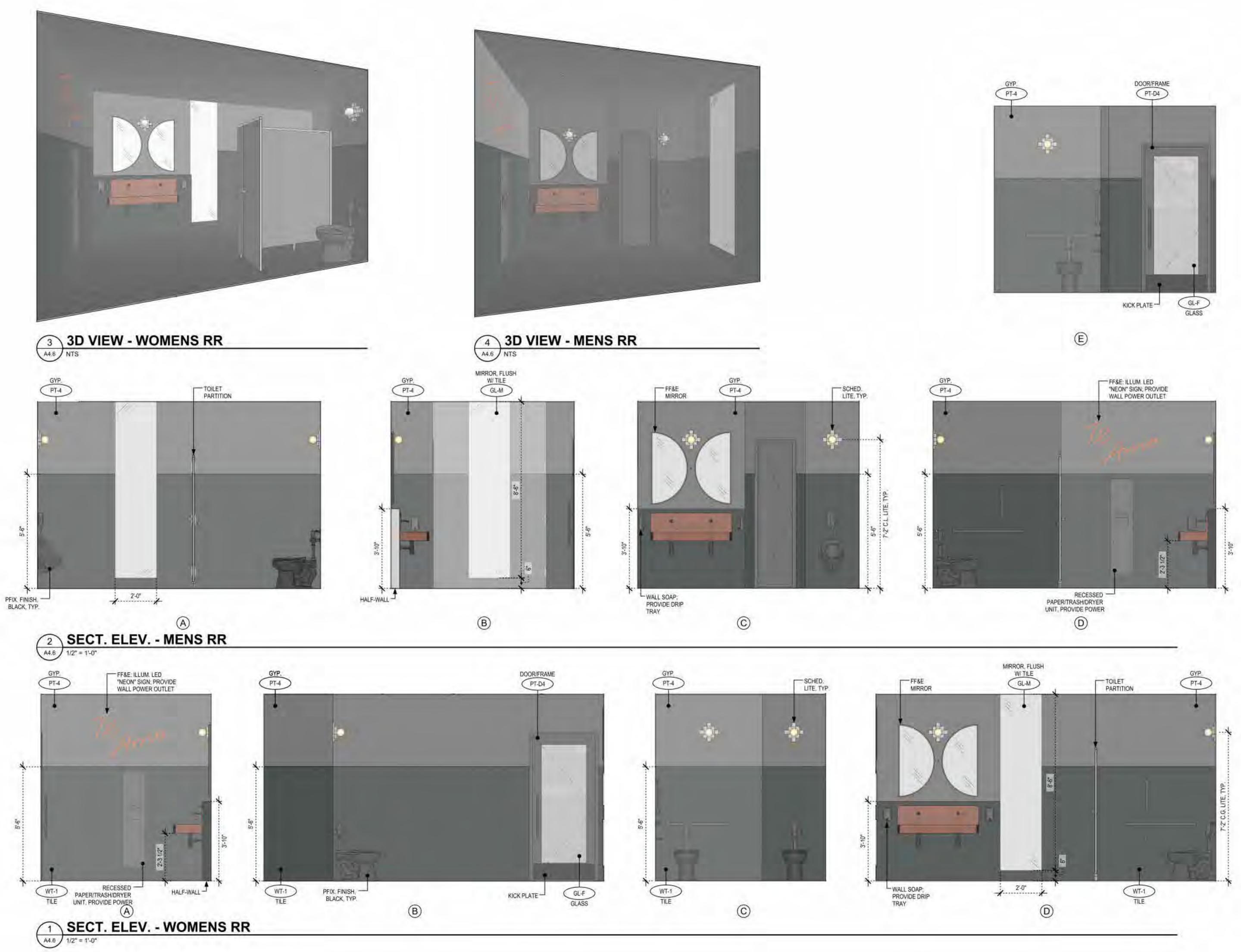
TEOCALLI CUCINA 460 MAIN STREET LONGMONT, COLORADO



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	202305
ISSUE DATE:	
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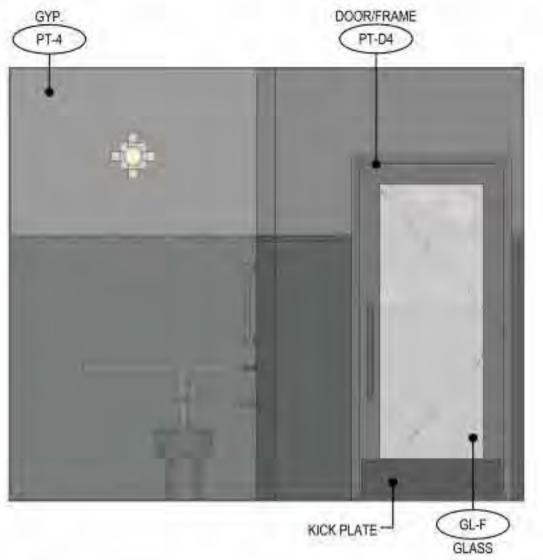
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INTERIOR PERSPECTIVES



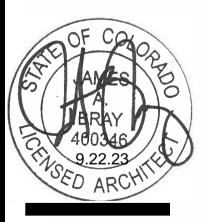








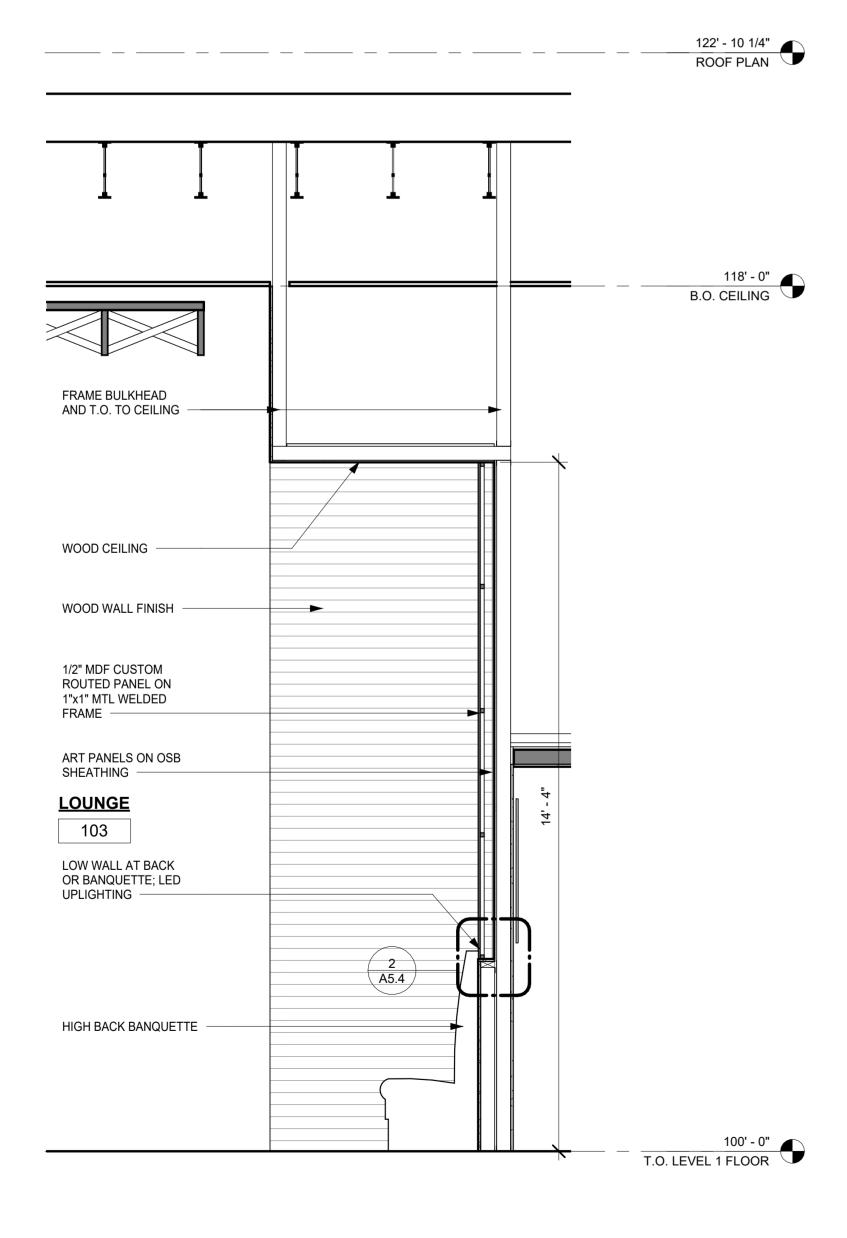
**TEOCALLI CUCINA** 460 MAIN STREET LONGMONT, COLORADO

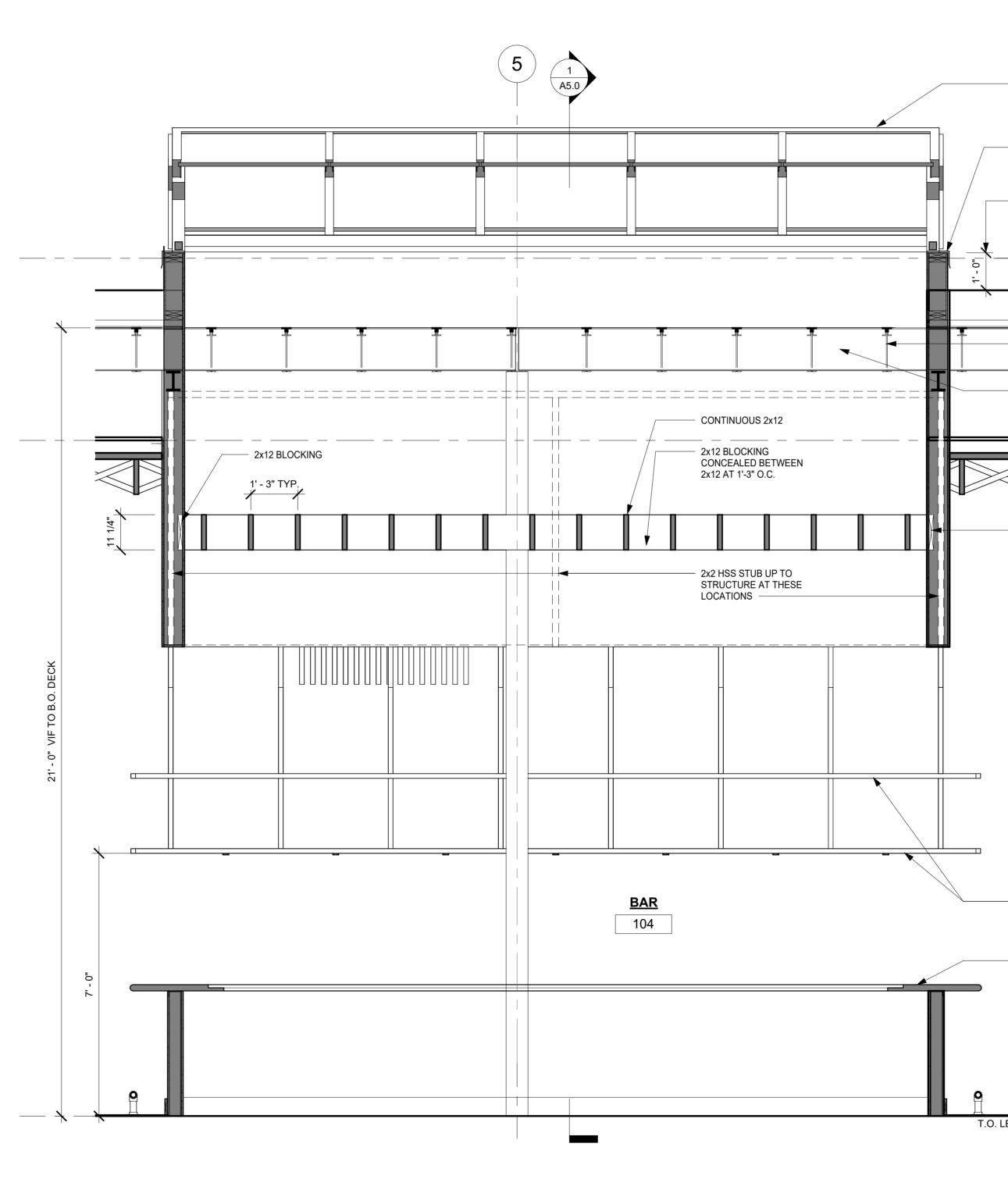


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	202305
ISSUE DATE:	
	09/22/23
REVISIONS:	
SHEET TITLE:	

BATHROOM ELEVATIONS

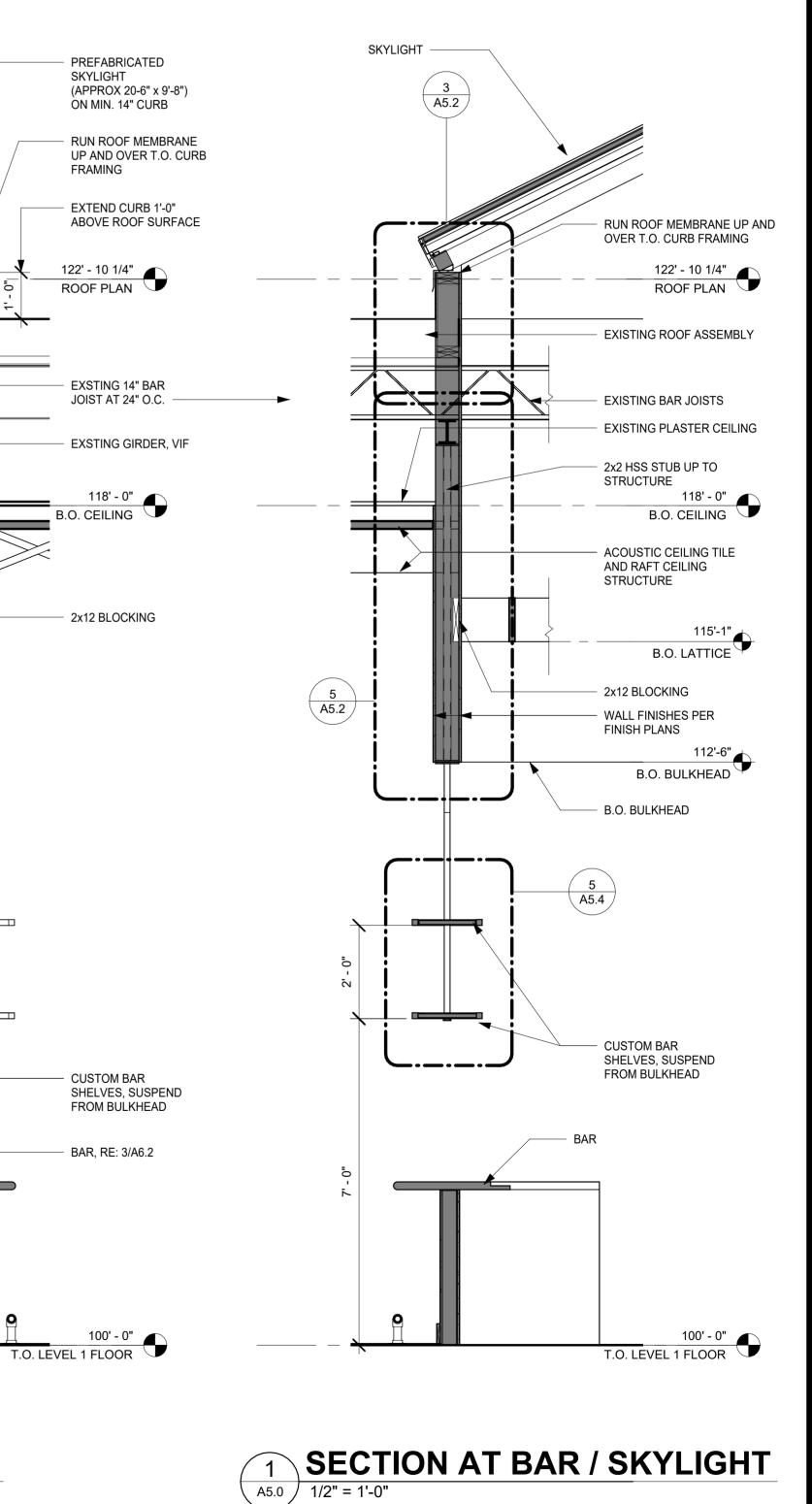




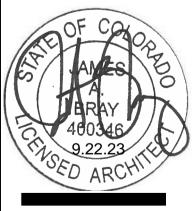






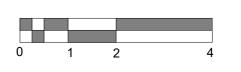


# TEOCALLI CUCINA 460 MAIN STREET LONGMONT, COLORADO

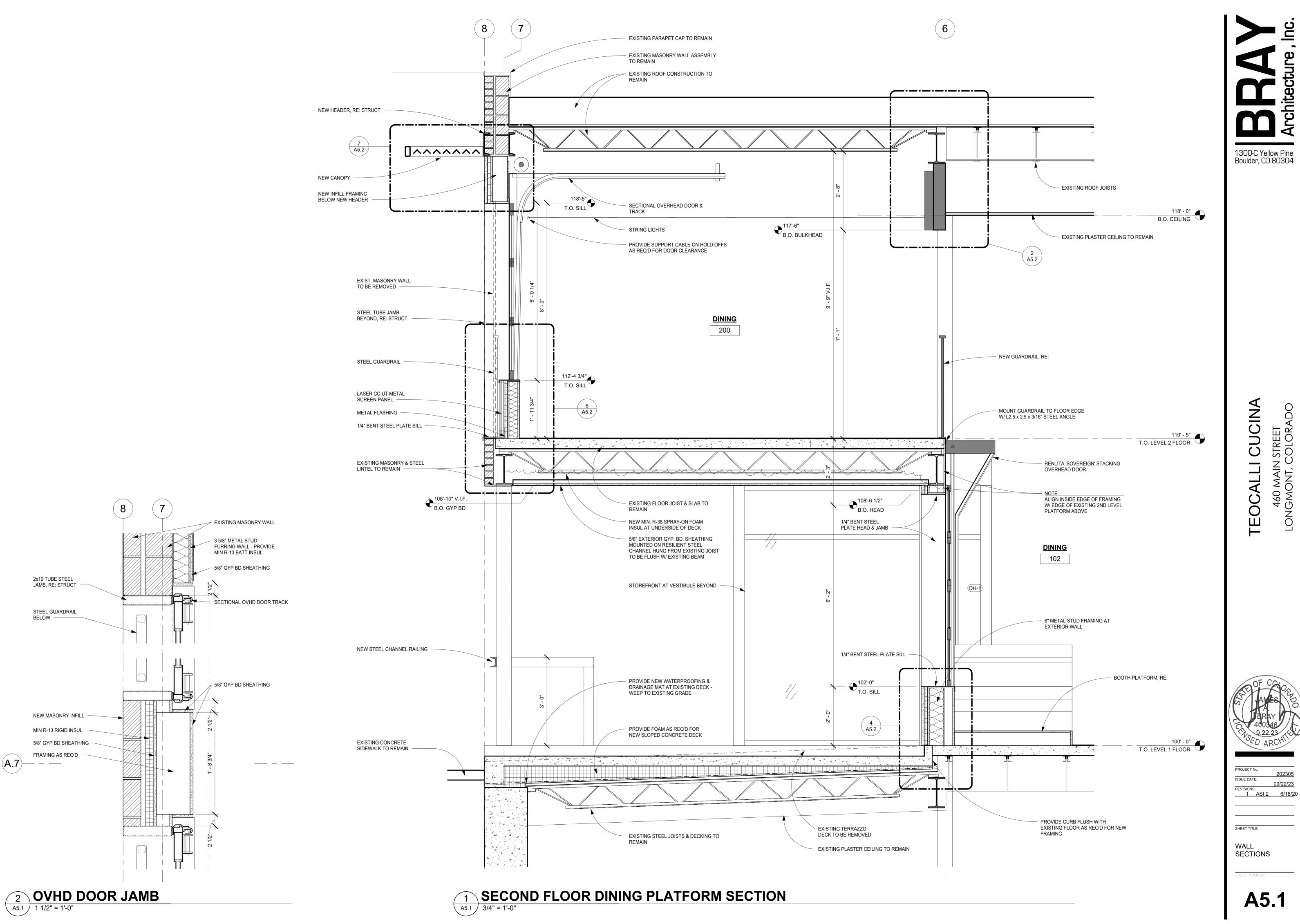


PROJECT No:	202305
ISSUE DATE:	09/22/23
REVISIONS:	
SHEET TITLE:	
WALL	

A5.0



7 A5.2



ecture

Archite

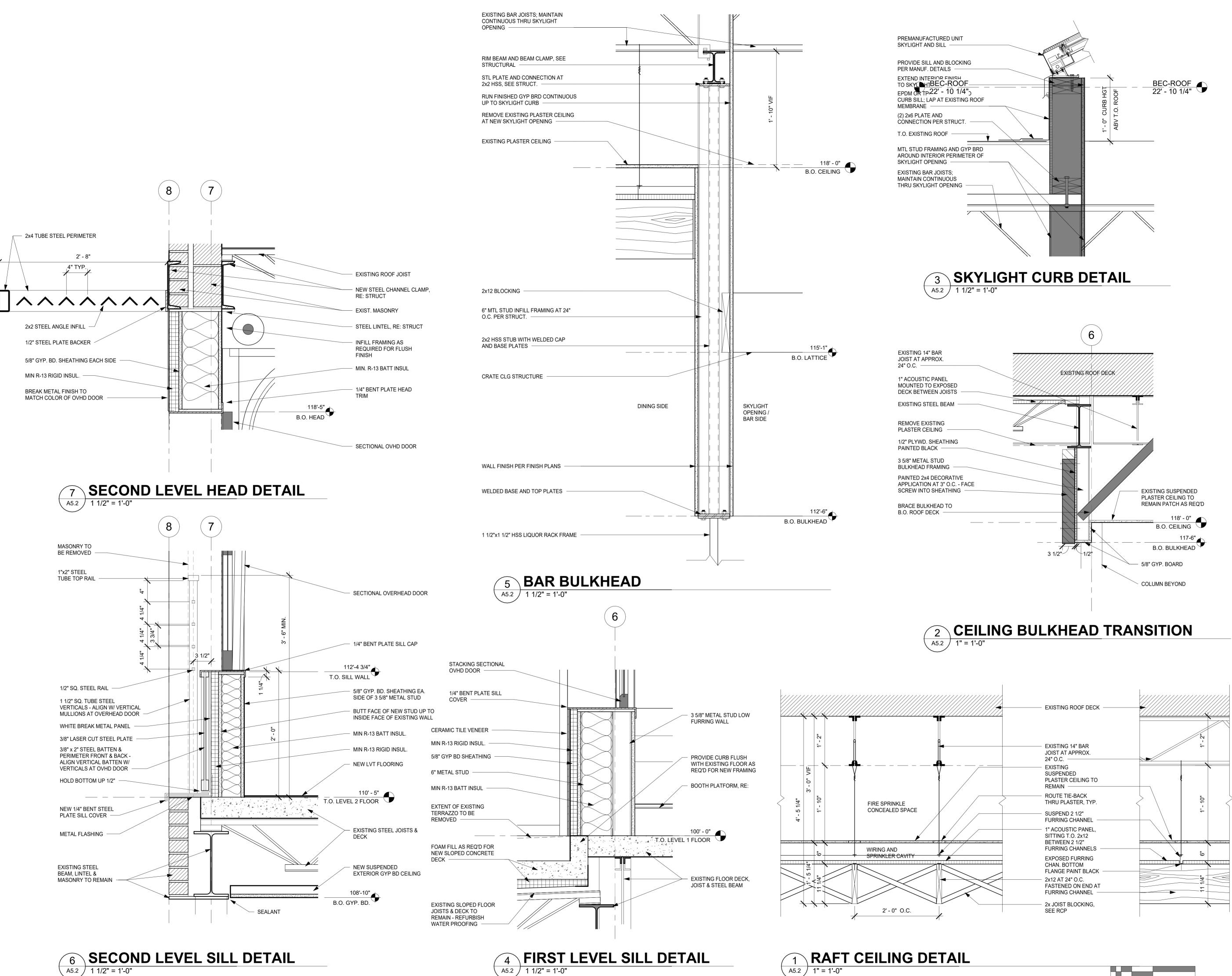
N STREET COLORADO

460 MAIN LONGMONT, C

9.22.23

202305

09/22/23



A5.2 / 1 1/2" = 1'-0"

A5.2 / 1" = 1'-0"

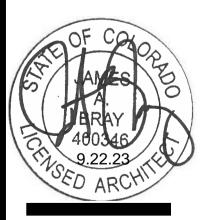


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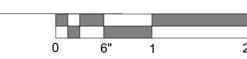
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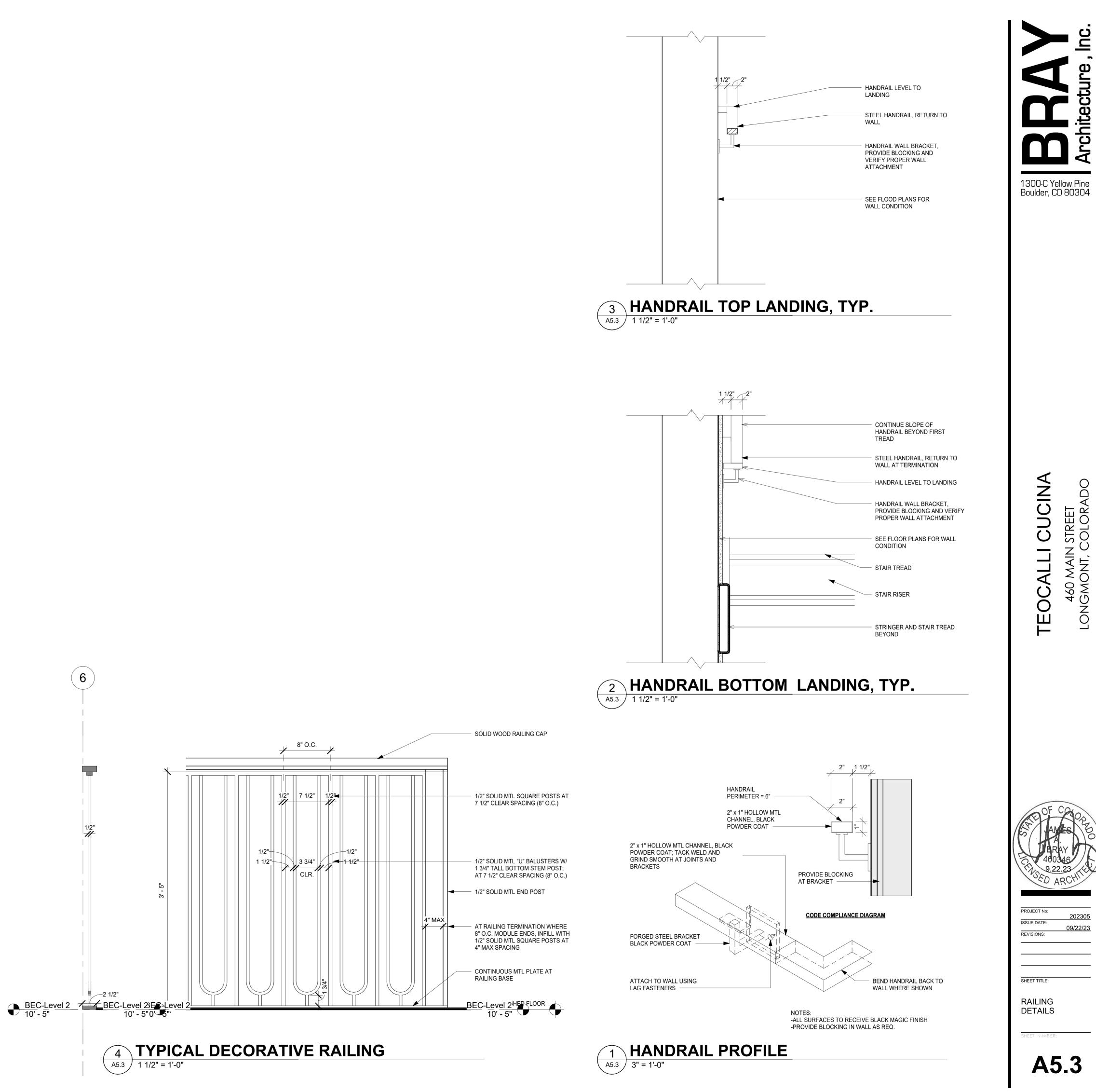
PROJECT No:	202305
ISSUE DATE:	
	09/22/23
REVISIONS:	
SHEET TITLE:	

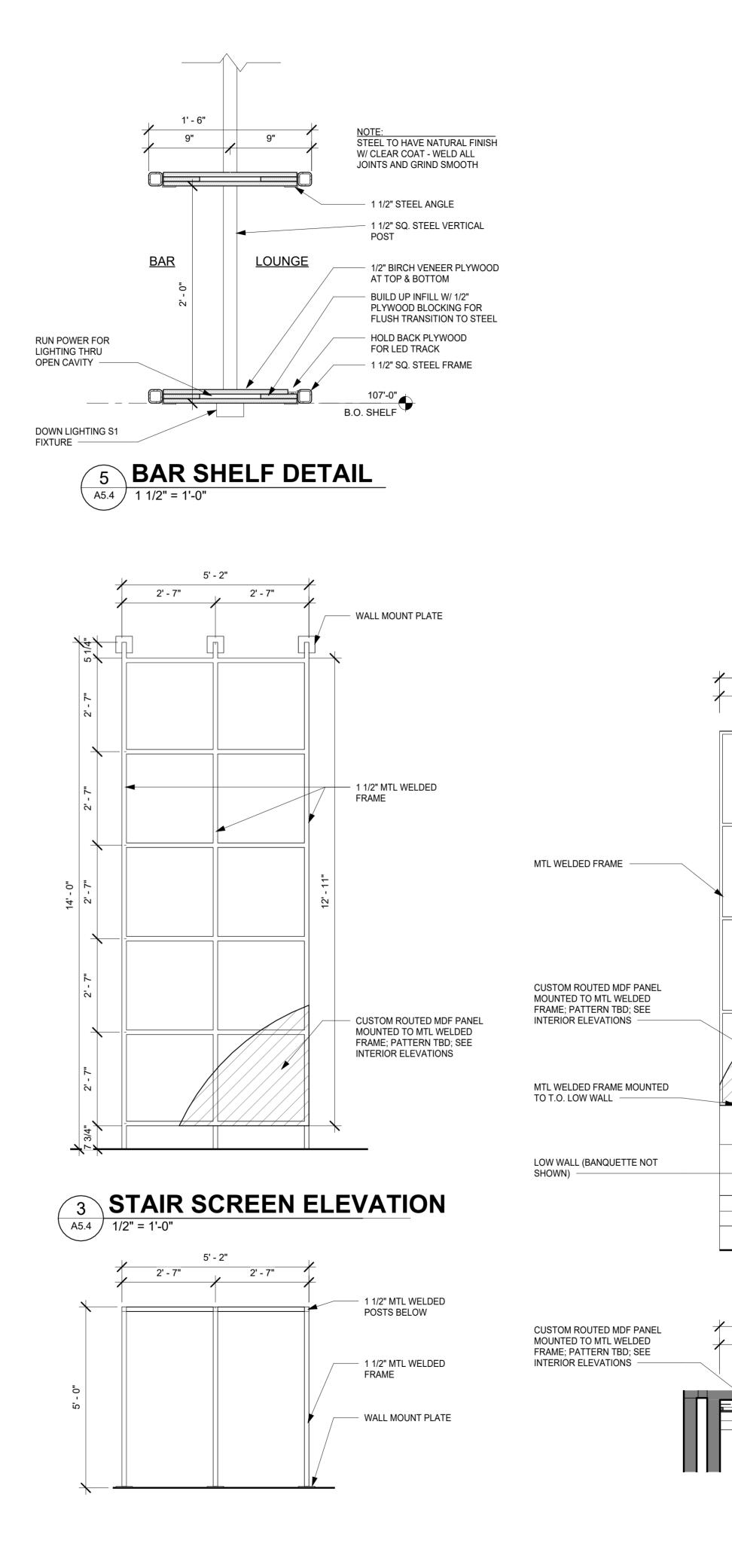
DETAILS

A5.2



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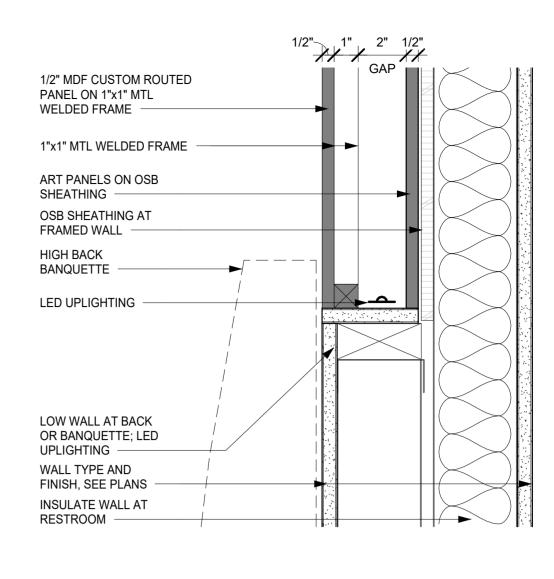




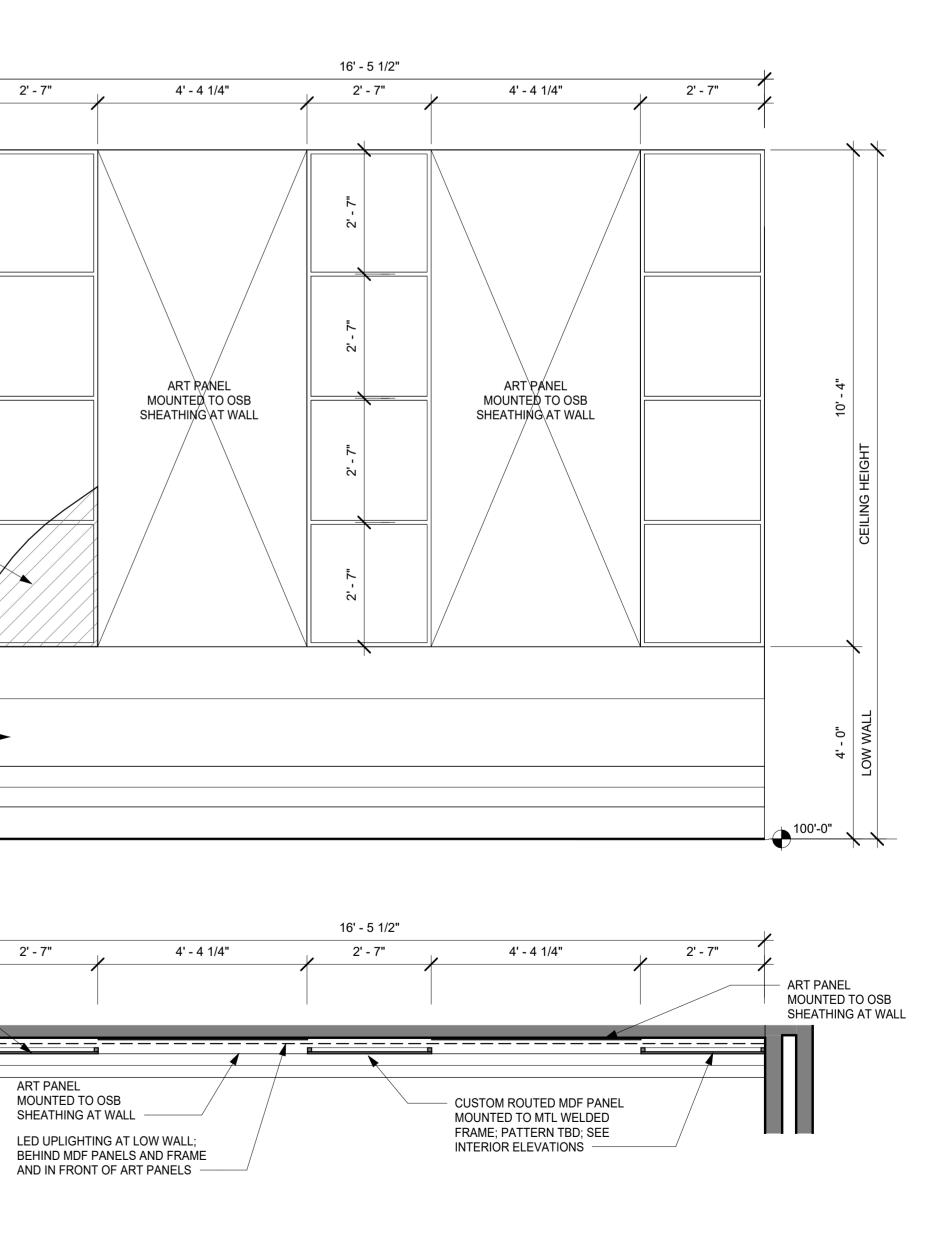
2' - 7"

ART PANEL

2' - 7"

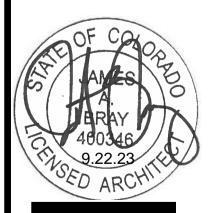






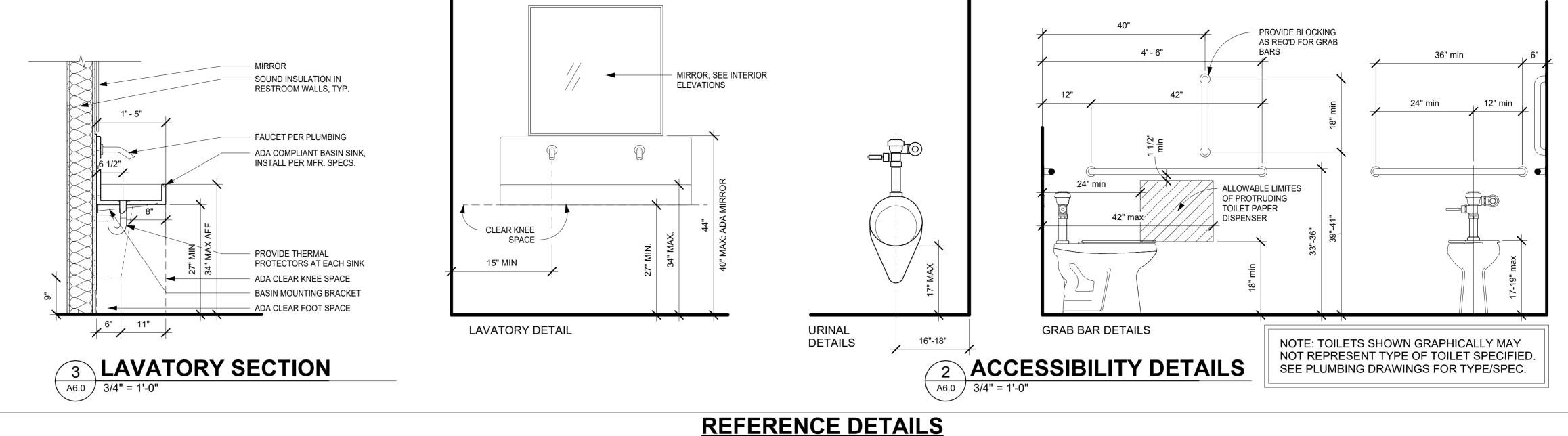


CUCINA 460 MAIN STREET LONGMONT, COLORADO TEOCALLI



PROJECT No:	202305
ISSUE DATE:	09/22/23
REVISIONS:	
SHEET TITLE:	

SCREEN WALL DETAILS

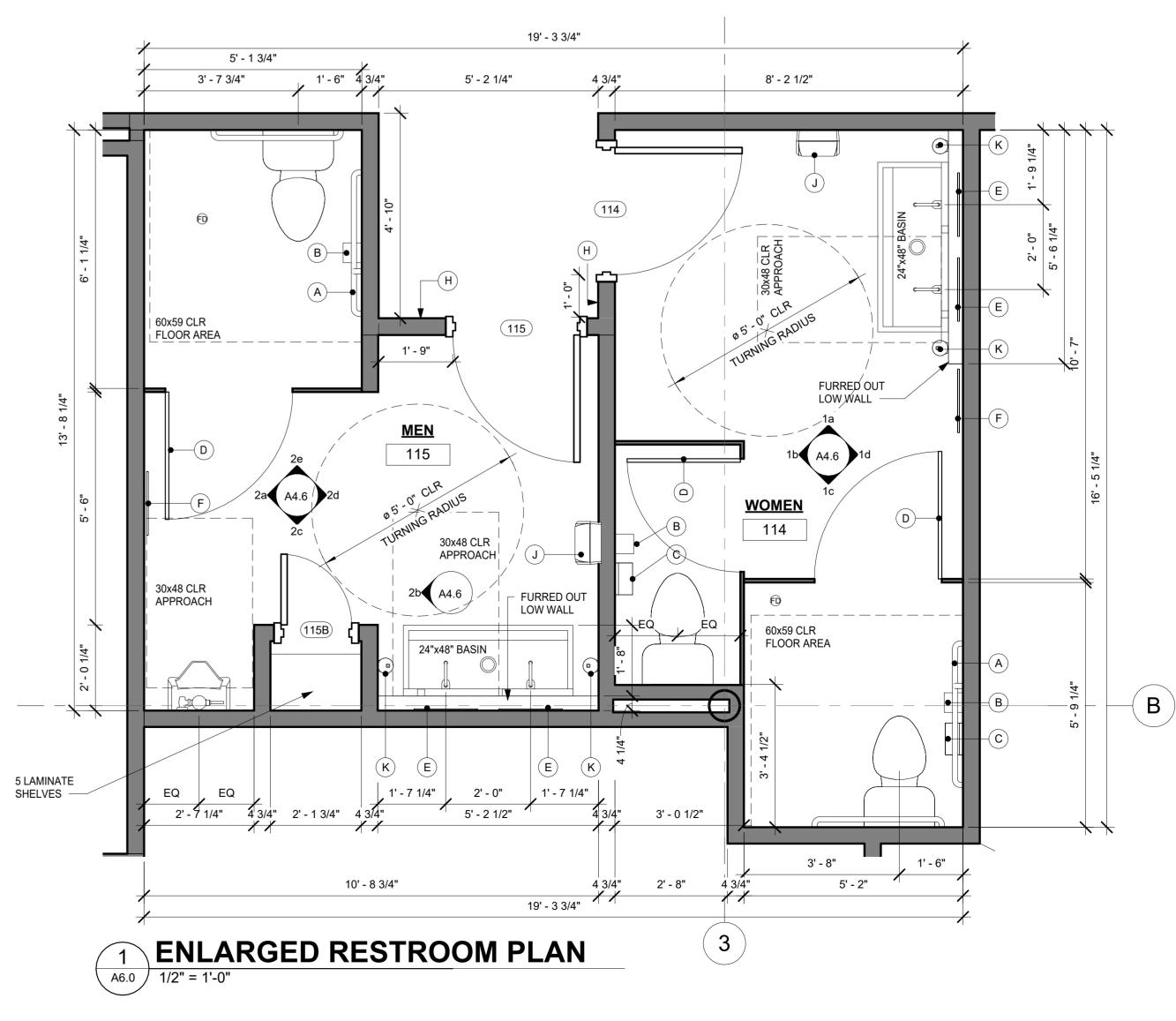


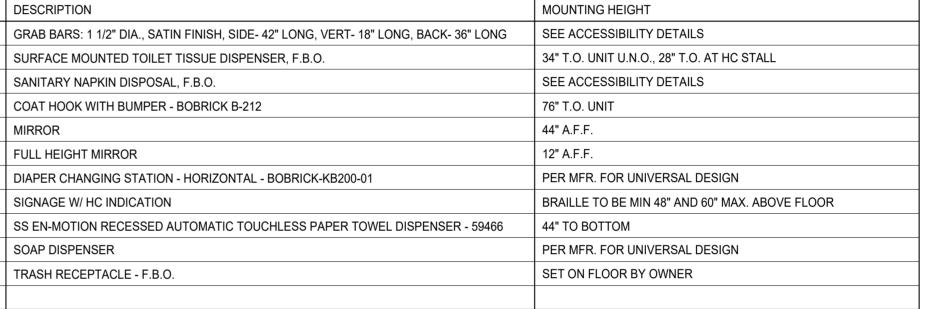
## **REFERENCE DETAILS**

# **TOILET ACCESSORIES SCHEDULE**

- REF. DESCRIPTION
- Α SURFACE MOUNTED TOILET TISSUE DISPENSER, F.B.O. В
- SANITARY NAPKIN DISPOSAL, F.B.O. С
- D COAT HOOK WITH BUMPER - BOBRICK B-212
- F MIRROR
- F FULL HEIGHT MIRROR
- DIAPER CHANGING STATION HORIZONTAL BOBRICK-KB200-01 G
- SIGNAGE W/ HC INDICATION н
- κ
- SOAP DISPENSER
- TRASH RECEPTACLE F.B.O.

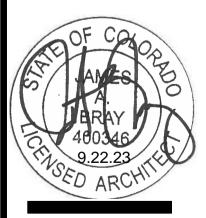
NOTE: PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT & ACCESSORIES







CUCINA 460 MAIN STREET LONGMONT, COLORADO TEOCA

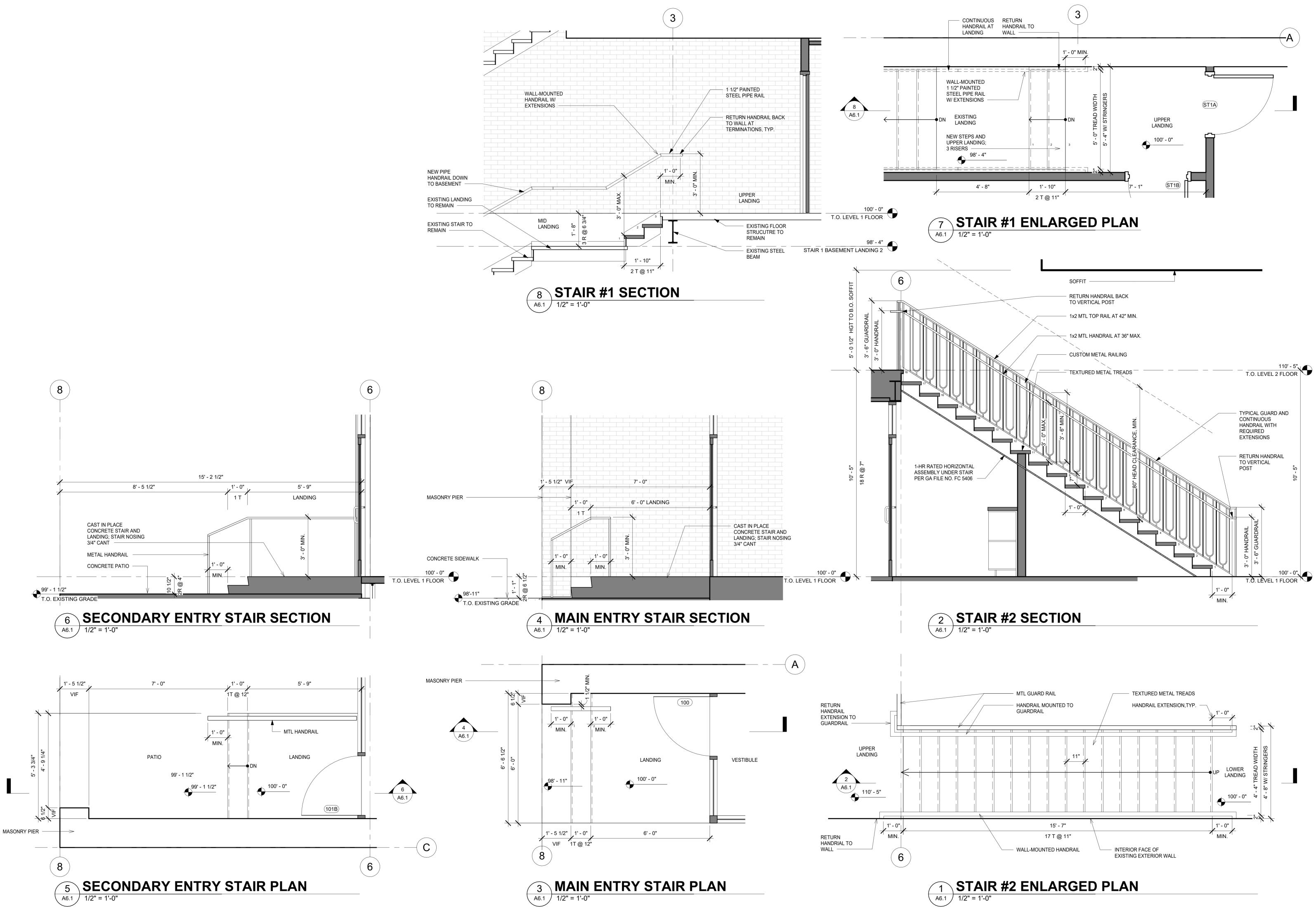


PROJECT No:	
	202305
ISSUE DATE:	
	09/22/23
REVISIONS:	

ENLARGED RESTROOM PLANS

SHEET TITLE:

A6.0



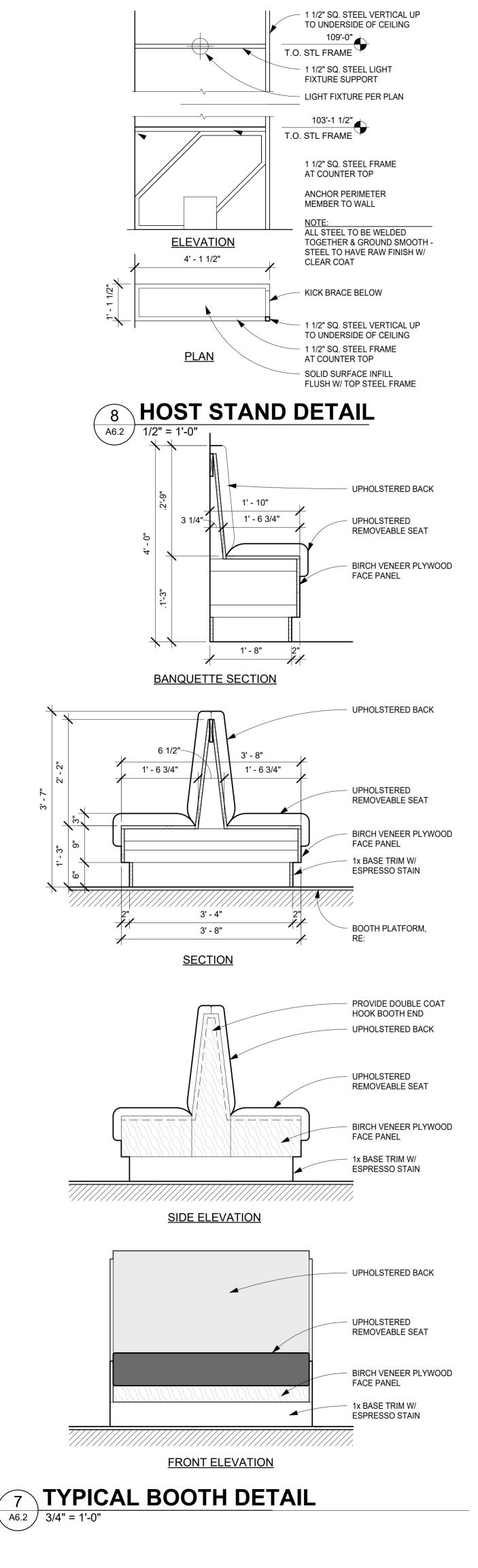


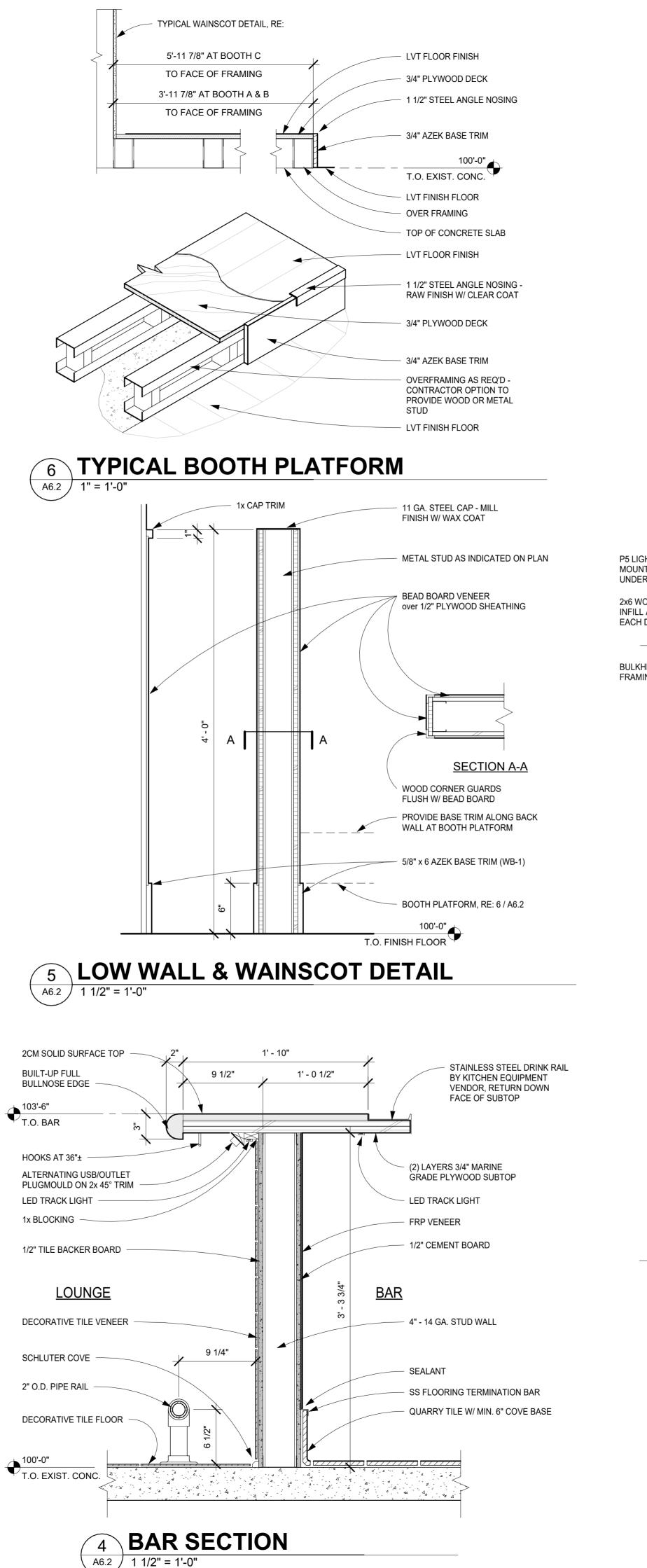
CUCINA N STREET COLORADO 460 MAIN LONGMONT, C TEOCA

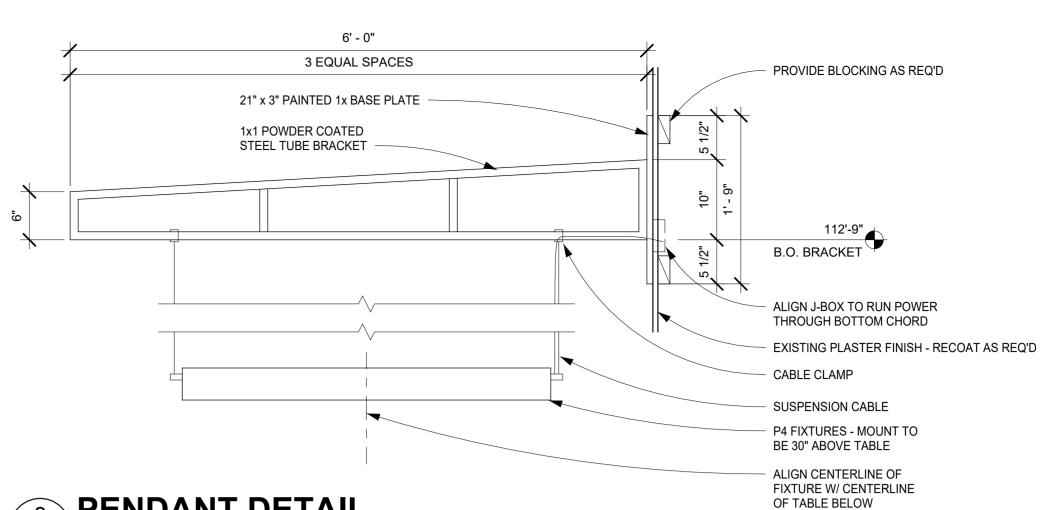
PROJECT No:	202305
ISSUE DATE:	202303
ISSUE DATE.	09/22/23
REVISIONS:	
SHEET TITLE:	

ENLARGED STAIR PLANS

A6.1



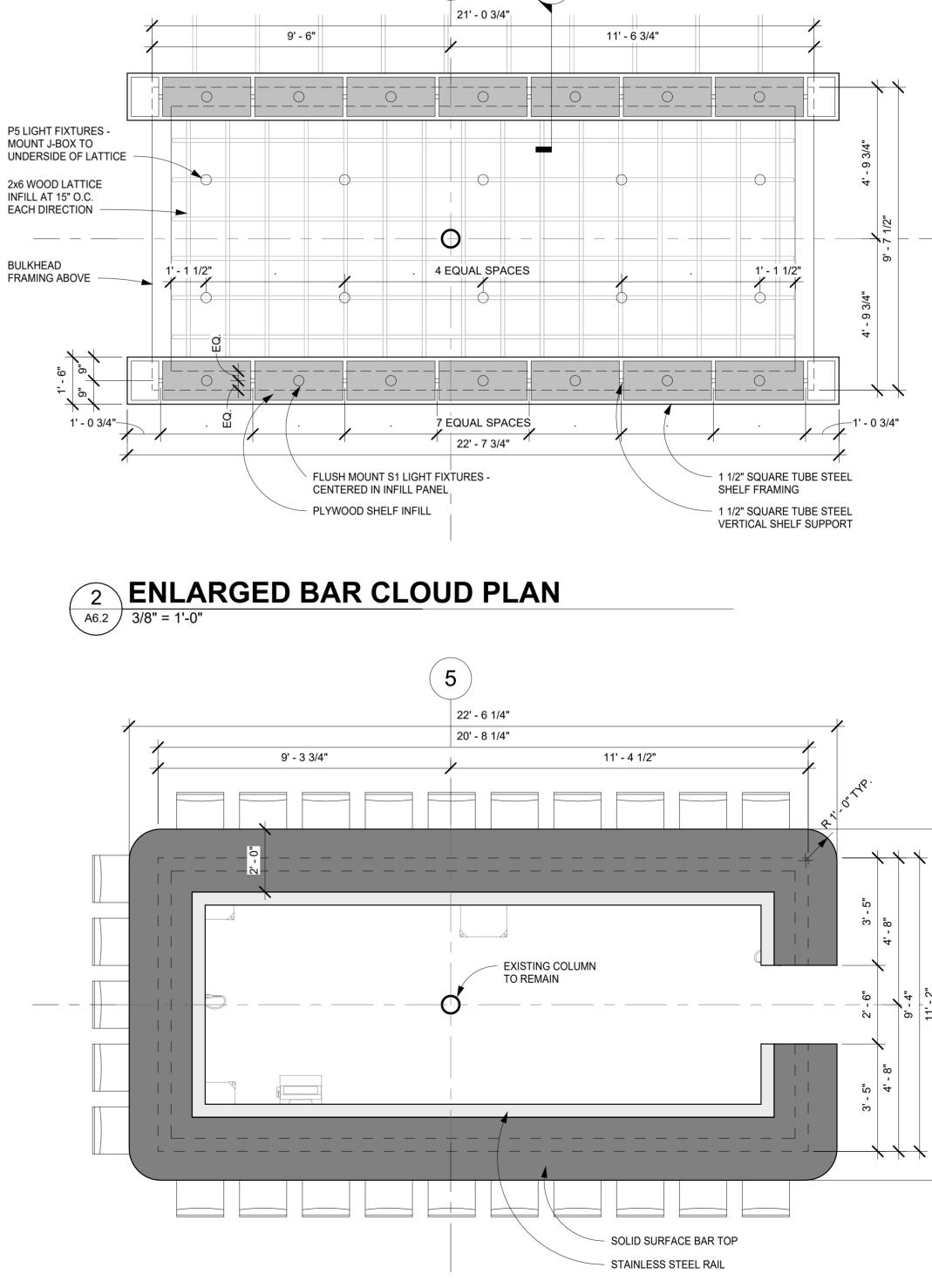


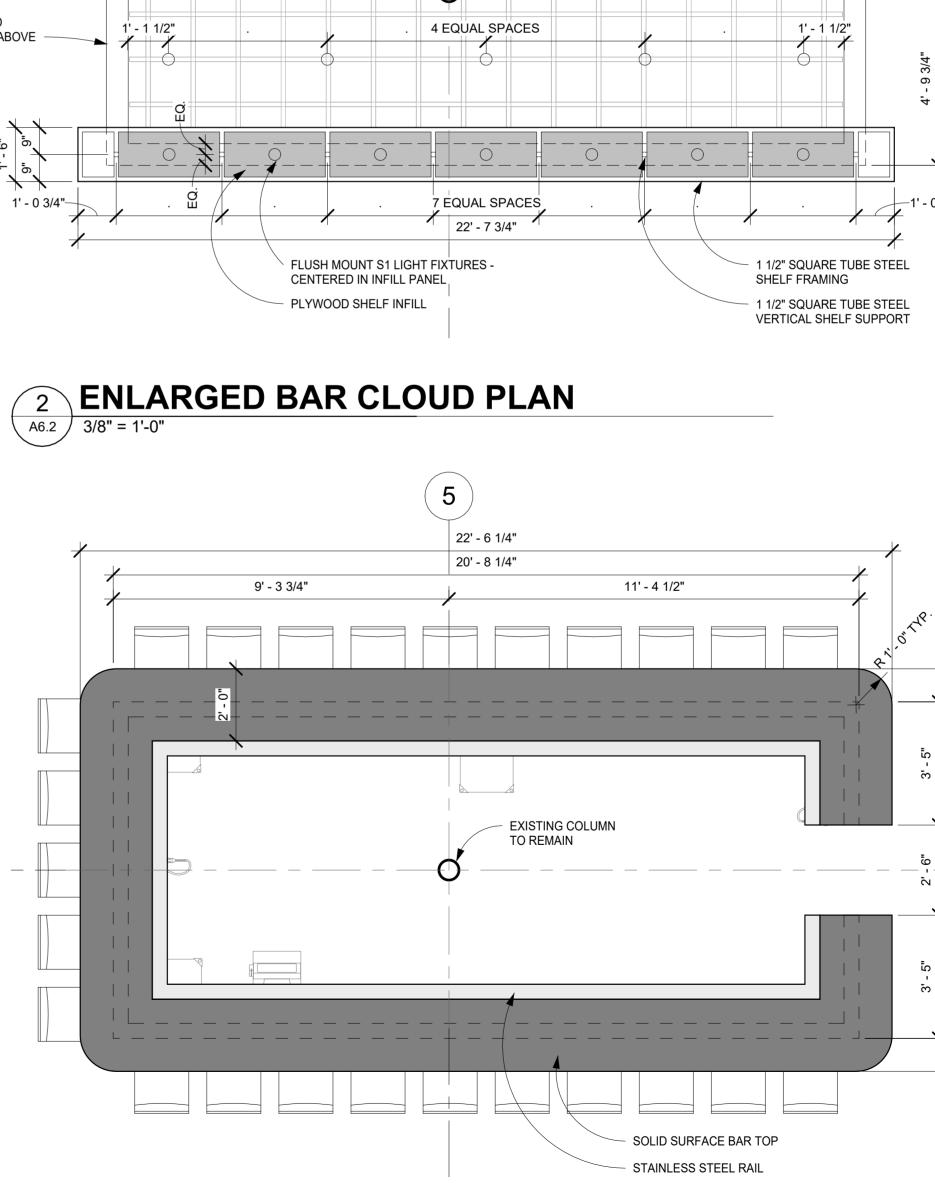


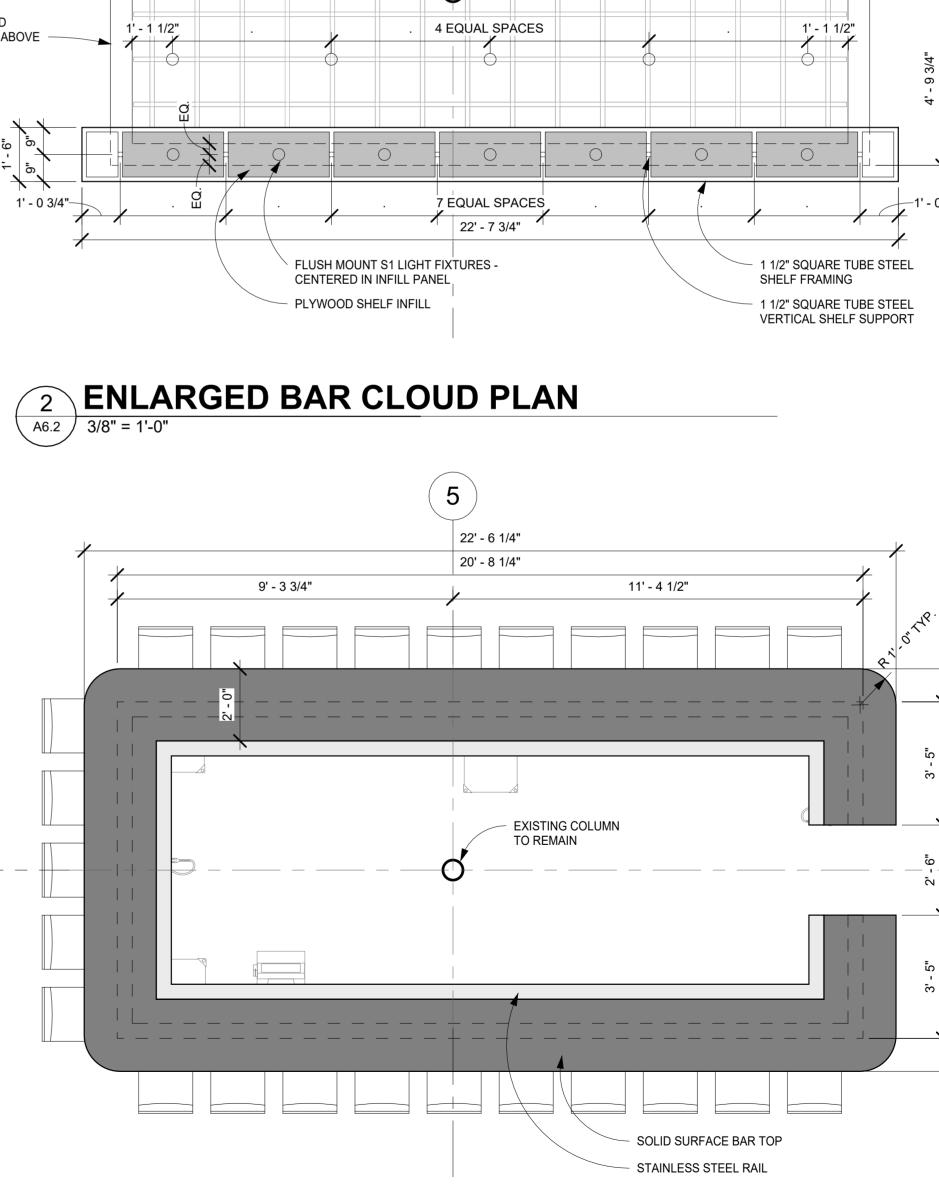
A5.4 /

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1300-C Yellow Pine Boulder, CO 80304

> CUCINA TEOCA

B

ŏ N STREET COLORAI 460 MAIN LONGMONT, C

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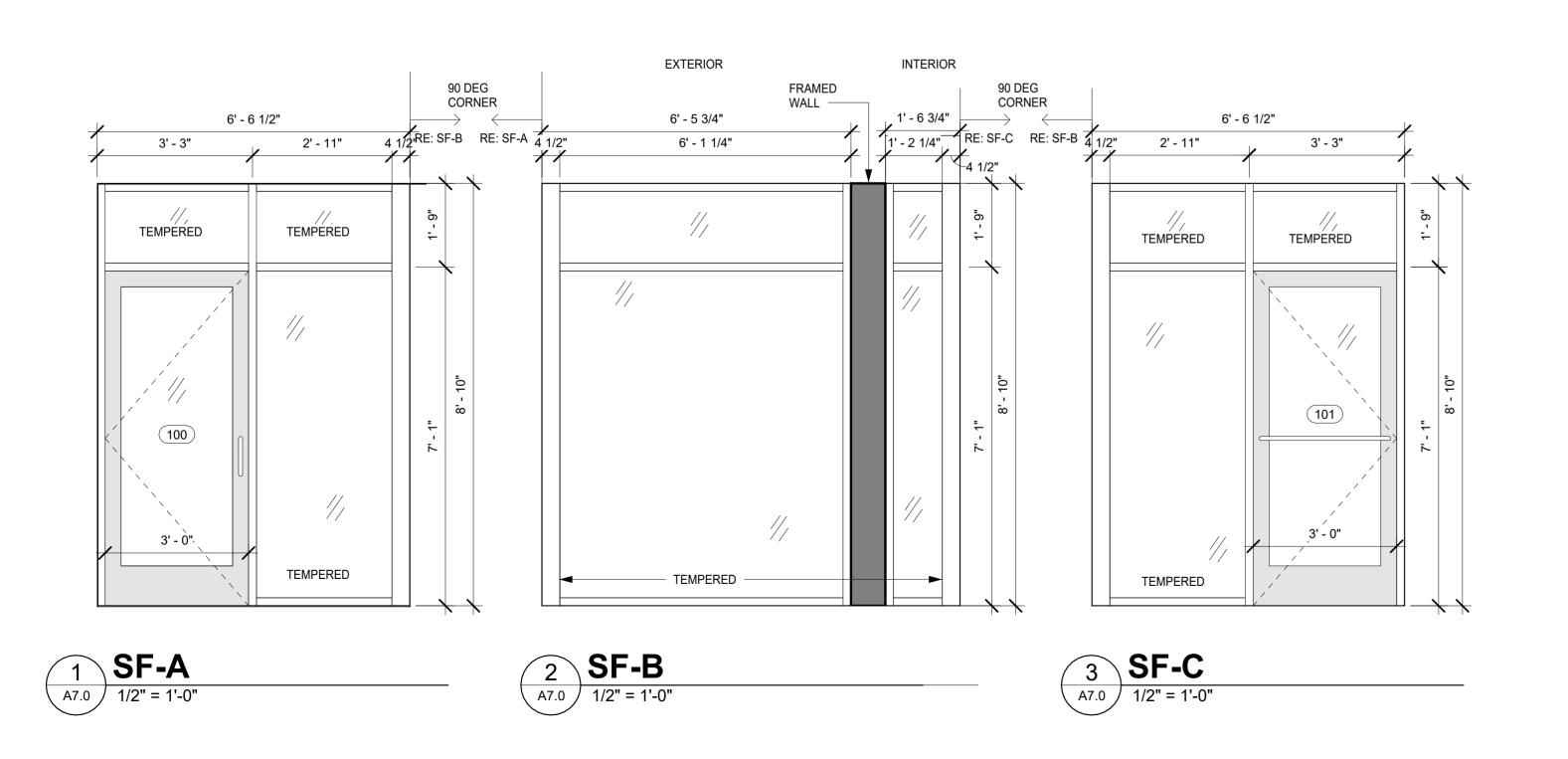
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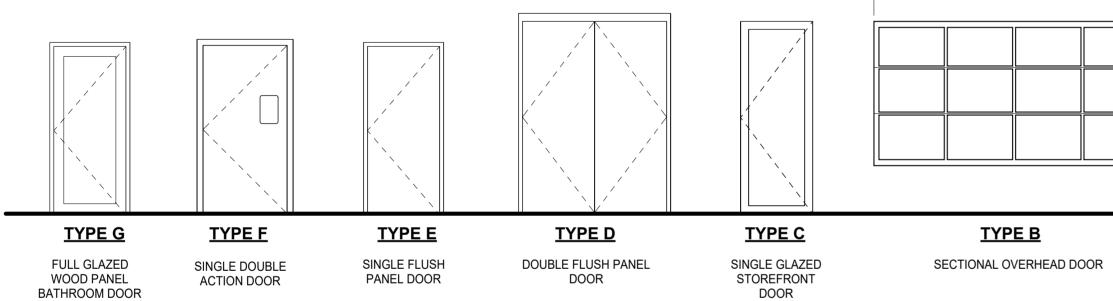
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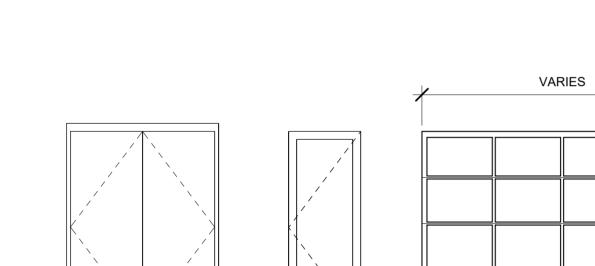
> PROJECT NO 202305 09/22/23 SHEET TITLE: ENLARGED BAR PLAN & MILLWORK DETAILS

A6.2

# LEVEL 1 FURNITURE & FINISHPLAN







NO.	WIDTH	HEIGHT	DOOR TYPE	MATERIAL	FINISH	GLASS	FRAME TYPE	FRAME FINISH	HARDWARE GROUP	REMARKS
100	3' - 0"	7' - 0"	С	ALUM	ANOD	CLEAR	ALUM	ANOD	В	
101	3' - 0"	7' - 0"	C	ALUM	ANOD	CLEAR	ALUM	ANOD	В	
101B	3' - 0"	7' - 0"	C	ALUM	ANOD	CLEAR	ALUM	ANOD	В	
105	3' - 6"	7' - 0"	F	MFR	MFR	CLEAR	MFR	MFR	MFR	1
109	6' - 0"	7' - 0"	EXIST							2
110	3' - 0"	7' - 0"	EXIST						E	3
111	3' - 0"	6' - 8"	-	MFR	MFR	-	MFR	MFR	MFR	4
113	3' - 0"	7' - 0"	E	HM	PAINT	-	HM	PAINT	D	
114	3' - 0"	7' - 0"	G	WD	STAIN	-	HM	PAINT	A	
115	3' - 0"	7' - 0"	G	WD	STAIN	-	HM	PAINT	A	
115B	1' - 8"	7' - 0"	E	HM	PAINT	-	HM	PAINT	С	
117	3' - 0"	6' - 8"	-	MFR	MFR	-	MFR	MFR	MFR	4
203	3' - 0"	7' - 0"	E	HM	PAINT	-	HM	PAINT	С	
OH-1	14' - 0"	6' - 10"	A	ALUM	ANOD	CLEAR	MFR	MFR	MFR	5
OH-2	6' - 0"	11' - 8"	В	ALUM	ANOD	CLEAR	MFR	MFR	MFR	6
OH-3	6' - 0"	14' - 9"	В	ALUM	ANOD	CLEAR	MFR	MFR	MFR	6
OH-4	6' - 0"	11' - 8"	В	ALUM	ANOD	CLEAR	MFR	MFR	MFR	6
ST1A	3' - 0"	7' - 0"	E	HM	PAINT	-	HM	PAINT	A	
ST1B	3' - 0"	7' - 0"	E	HM	PAINT	-	HM	PAINT	Α	
ST1C	3' - 0"	7' - 0"	EXIST							2
ST3B	3' - 0"	7' - 0"	EXIST							2, 7
ST3C	3' - 0"	7' - 0"	EXIST							2
ST3D	3' - 0"	7' - 0"	EXIST							2

DOOR NOTES:

ELIASON LWP6 DOUBLE ACTION DOOR.
EXISTING DOOR TO REMAIN.

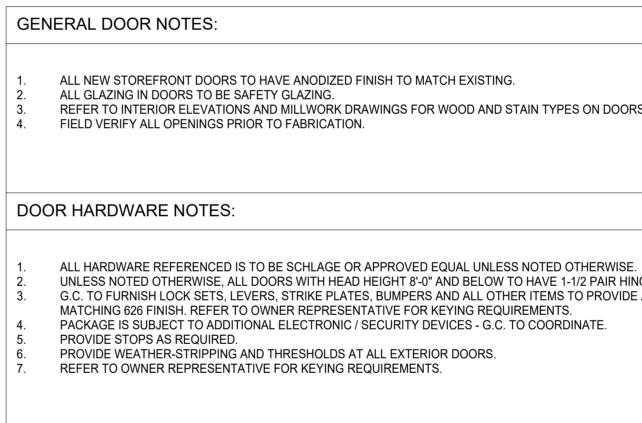
REPLACE EXISTING HARDWARE W/ NEW PRIVACY FUNCTION LOCK HARDWARE GROUP E.

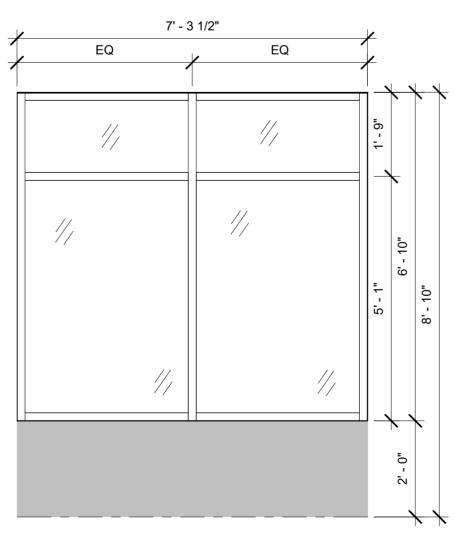
COOLER DOOR PER MANUFACTURER.

RENLITA - SOVEREIGN SECTIONAL OVERHAED STACKING DOOR. OVERHEAD DOOR COMPANY - 511 SERIES SECTIONAL OVERHEAD DOOR - PROVIDE ALTERNATE FOR RELITA SOVEREIGN. VERIFY PANIC HARDWARE AT EXISTING DOOR - PROVIDE AS REQUIRED.

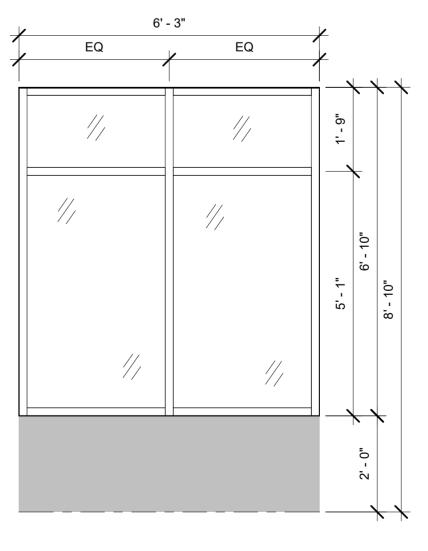
## DOOR HARDWARE SCHEDULE

GROUP	CLOSER	HANDLE	FUNCTION	ACCESSORIES	COMMENTS
А	SURFACE	PUSH PLATE & D PULL	PASSAGE	KICK PLATES BOTH SIDES	PROVIDE HOLD OPEN FUNCTION AT CLOSER
В	SURFACE	FALCON 2090 PANIC DEVICE & D PULL	ENTRANCE	-	PROVIDE HOLD OPEN FUNCTION AT CLOSER
С	SURFACE	ATHENS - 626	STOREROOM	-	-
D	SURFACE	ATHENS - 626	OFFICE	PEEP HOLE	PROVIDE HOLD OPEN FUNCTION AT CLOSER
E	SURFACE	ATHENS - 626	PRIVACY		SINGLE OCCUPANT BATHROOM





FINISH FLOOR







14' - 0"

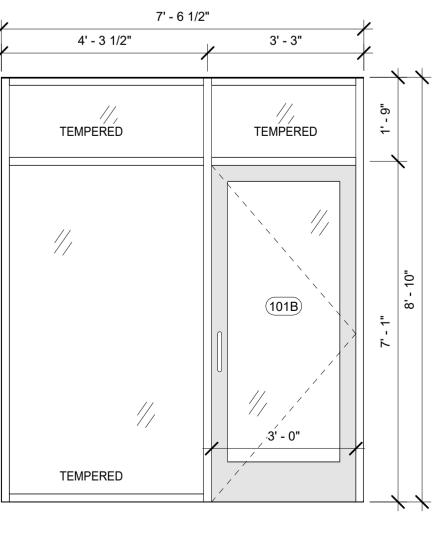
REF: RENLITA OVERHEAD DOORS

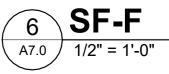
SECTIONAL OVERHEAD STACKING DOOR

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REFER TO INTERIOR ELEVATIONS AND MILLWORK DRAWINGS FOR WOOD AND STAIN TYPES ON DOORS UNLESS NOTED OTHERWISE.

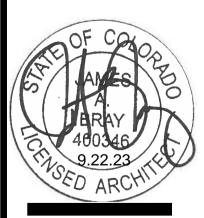
UNLESS NOTED OTHERWISE, ALL DOORS WITH HEAD HEIGHT 8'-0" AND BELOW TO HAVE 1-1/2 PAIR HINGES - W/ MATCHING 626 FINISH. G.C. TO FURNISH LOCK SETS, LEVERS, STRIKE PLATES, BUMPERS AND ALL OTHER ITEMS TO PROVIDE A COMPLETE AND FUNCTIONING HARDWARE PACKAGE ALL OF MATCHING 626 FINISH. REFER TO OWNER REPRESENTATIVE FOR KEYING REQUIREMENTS. PACKAGE IS SUBJECT TO ADDITIONAL ELECTRONIC / SECURITY DEVICES - G.C. TO COORDINATE.







CUCINA 460 MAIN STREET LONGMONT, COLORADO TEOCALLI



PROJECT No:	
	202305
ISSUE DATE:	
	09/22/23
REVISIONS:	
SHEET TITLE:	

DOOR AND WINDOW SCHEDULE

A7.0

INISH	LES SPECIFICATIONS	- INTERIOR	& EXTERIOR		1.		FINISH	HES SPECIFICATIONS -	INTERIOR	& EXTERIOF	2
TAG	APPLICATIONS / LOCATIONS	MANUFACTURER	PRODUCT	COLOR / FINISH	SIZE / TYPE	NOTES	TAG	APPLICATIONS / LOCATIONS	MANUFACTURER	PRODUCT	COLOR / FINISH
OORIN	G						PAINTS	& COATINGS - INTERIOR			
TF-1	GLAZED CERAMIC (BLACK)	DALTILE	NATURAL HUES, WALL, CORNER, COVE, &	BLACK (CONFIRM), MATTE	2*x2*	INSTALL: STACK, PER PLAN GROUT: TEAL-COLORED GROUT,	PT-1 PT-2	WALLS - FIELD (WHITE) WALLS - FIELD (LIGHT GREY)	SHERWIN WILLIAMS SHERWIN WILLIAMS	-	TBD TBD
	(RESTROOMS)		BULLNOSE PIECES	and the second second		TBD	PT-3	WALLS - FIELD (DARK GREY)	Sherwin Williams		TBD
TF-2	CERAMIC FLOOR/WALL (STAR) (BAR FLOOR/DIE WALL LOWER)	MEROLA	HARMONIA KINGS STAR	NERO	13"x13"	INSTALL: PER FINISH PLAN	PT-4 PT-5	WALLS - FIELD (BLACK) ACCENT WALL (BLUE)	Sherwin Williams Sherwin Williams		TBD TBD
		GLENROCK DIST.				INSTALL: PER PLAN	PT-6 PT-7	ACCENT WALL (TEAL) CMU ACCENT WALL (BLUE/GREY)	SHERWIN WILLIAMS SHERWIN WILLIAMS		TBD TBD
TF-3	HEX CERAMIC FLOOR (RESTROOMS)	303-761-8453 REP: AURORA SALINAS	SHADOW HEX	BLACK	8"x9"	GROUT: TEAL-COLORED GROUT, TBD	PT-R1	RAILING (BLACK)	Sherwin Williams	DIRECT-TO-METAL	тво
TF-Q	QUARRY TILE (EXPO, KITCHEN, BACK BAR)	GLENROCK DIST. 303-761-8453	METROPOLITAN QUARRY BASICS, SINGLE TONE	705 PEWTER	6"X6"	INSTALL W/ 6" COVE WALL BASE: STACK, PER PLAN		COATINGS - EXTERIOR			
	LVT (WOOD-LOOK)	REP: AURORA SALINAS				GROUT: GROUT, TBD	XPT-1 XPT-2	FIELD (WHITE) FIELD (LIGHT GREY)	Sherwin Williams Sherwin Williams		TBD TBD
VT-W	(THROUGHOUT)	KARNDEAN	VAN GOGH	SMOKED BEECH, VGW98T	48"x7"	INSTALL: PER FINISH PLAN	XPT-3	FIELD (DARK GREY)	SHERWIN WILLIAMS	-	TBD
LVT-Z	LVT (TERRAZZO-LOOK) (THROUGHOUT)	ARMSTRONG / AHF CONTRACT	TERRA	ST550, PALAZZO NERO	18"x36"	INSTALL: PER FINISH PLAN	XPT-4 XPT-5	FIELD (BLACK) ACCENT (BLUE)	Sherwin Williams Sherwin Williams		TBD TBD
ALL TI	E						XPT-6	ACCENT (TEAL)	SHERWIN WILLIAMS		TBD
Č.	COVE BASE, QUARRY TILE	GLENROCK DIST.	METROPOLITAN CERAMICS.		1	INSTALL W/ 6" COVE WALL BASE:		LAMINATE			
Q-TW	(EXPO, KITCHEN, BACK BAR)	303-761-8453 REP: AURORA SALINAS	QUARRY BASICS, SINGLE TONE	705 PEWTER	6"X6"	STACK, PÉR PLAN GROUT: COLORED GROUT, TBD	PL-1	MILLWORK LAMINATE, CASE INTERIOR & EXTERIOR MILLWORK, LAMINATE (WOOD-LOOK)	FORMICA	COLORCORE 2	BLACK 909C
			NATURAL LINES WALL			INSTALL: STACK, RE: INT. ELEVS. GROUT: TEAL-COLORED GROUT,	PL-2	(MILLWORK)	FORMICA	WOOD-LOOK	OXIDZIED BEAMWOOD 9484
WT-1	GLAZED CERAMIC (BLACK) (RESTROOMS, EXPO, BAR, FRONT WALL)	DALTILE	NATURAL HUES, WALL, CORNER, COVE, & BULLNOSE PIECES	BLACK (CONFIRM), MATTE	2*x2*	TBD PROVIDE SCHLUTER TRIM AT	SOLID S	SURFACE (RESIN, QUARTZ, & NAT	. STONE)	1	
0			BOLLHOSE FILCES			OUTER/EXPOSED CORNERS EXPECT AT RESTROOMS	SS-1	QUARTZ COUNTERTOP (COFFEE BAR, PARENT RM, CONF. RM.)	CORIAN	DOVE GREY	LEATHERED; FLAT/STRAIGHT EDG
WT-2	CERAMIC FLOOR/WALL (STAR)	MEROLA	HARMONIA KINGS STAR	NERO	13"x13"	INSTALL: PER FINISH PLAN / INT. ELEVS.	TYP. TR	ANSITION STRIPS			
	(BAR FLOOR/DIE WALL LOWER)				C 100	PROVIDE SCHLUTER TRIM AT OUTER/EXPOSED CORNERS	TR-1	TILE-to-GYP.	SCHLUTER	JOLLY	ANODIZED ALUM., BRUSHED GRA
						INSTALL: 1/2 OFFSET, HORIZONTAL, RE: INT. ELEVS.	TR-2 TR-3	TILE-to-TILE (OUTER CORNER) TILE-to-CONCRETE	SCHLUTER SCHLUTER	FINEC RENO-U	ANODIZED ALUM., BRUSHED GR/ ANODIZED ALUM., BRUSHED GR/
NT-4W	GLAZED CERAMIC (WHITE) (EXPO, FRONT WALL)	GLENROCK DIST. 303-761-8453	LOOK	BIANCO, GLOSS	2-1/4"x9-3/8"	*1/4" GROUT JOINT GROUT: TEAL-COLORED GROUT,	TR-4 TR-5	TILE-to-LVT CONCETE-to-PVC	SCHLUTER	SHIENE RENO RAMP	ANODIZED ALUM., BRUSHED GR/ ANODIZED ALUM., BRUSHED GR/
*********	(EAPO, PROMI MALL)	REP: AURORA SALINAS	2012.2011		Contra Contracta de	TBD PROVIDE SCHLUTER TRIM AT			Sonconex :	incho hami	
2		1	-	1	-	OUTER/EXPOSED CORNERS INSTALL: STACK VERTICAL RE: INT.	WOOD	MDF, PAINTED	135715	ľ	with Parci
	GLAZED CERAMIC (BLACK)	GLENROCK DIST.	1000			ELEVS. *1/4" GROUT JOINT	MDF-1	(MILLWORK)	GC		PAINTED
NT-48	(BAR DIE WALL)	303-761-8453 REP: AURORA SALINAS	LOOK	NERO, GLOSS	2-1/4"x9-3/8"	GROUT: TEAL-COLORED GROUT, TBD PROVIDE SCHLUTER TRIM AT	WD-1	BARNWOOD WALL CLADDING (BANQ, FEATURE WALL)	GC	T&G WALL PANEL	RECLAIMED BARNWOOD
~						OUTER/EXPOSED CORNERS	WD-2E	SOLID WOOD, ASH (DARK-EBONY) (MILLWORK TOPS, SHELVES)	GC	PLAIN-SAWN	DARK/EBONY STAIN FINISH TBD CLEAR POLYURETHANE
ALL BA	ASE (NON-TILE) / WALL TRIM WALL BASE, PVC, (BLACK)	AZEK OR EQUAL	PVC SHEET TRIM	FACTORY BLACK, SMOOTH	3/4*x6"H	CUT TRIMBOARD FROM	WD-2W	SOLID WOOD, ASH (DARK-WALNUT) (MILLWORK TOPS, SHELVES)	oc	PLAIN-SAWN	DARK/WALNUT STAIN FINISH TBU CLEAR POLYURETHANE
TW-1	WALL TRIM, WOOD, STAINED	GC GC	SOLID ASH	STAIN (DARK), TBD	1"H x 1/2"D	SHEETGOOD RE: INT, ELEVS,	WD-3	FAUX CEILING JOISTS & KICKERS (LOUNGE/DINING)	GC	DOUG. FIR	STAIN, MINWAX TED
TW-2X	(UPPER WAINSCOT CAP THROUGHOUT) 2x4, SELECT GRADE, PAINTED	GC	2x4	PAINT, COLOR TED	1-1/2" x 3-1/2"	RE: INT. ELEVS.	1000000	(LOONDE/ DINING)		2" O.C. BEAD PLANKS	
NG - 2527 (C) (C	(VERTICAL DECORATIVE WALL BLADES)				104510-5045		BB-1	BEAD BOARD, SOLID WOOD, PRIMED & PAINTED (WAINSCOT THROUGHOUT)	GC	OR SHEET W/ 1-1/4" MATCHING SOLID WOOD	PAINTED, COLOR TED, SEMI-GLO
OUSTI	C CEILING TILE	ē.		5	F	USG DONN BRAND DX/DXL24				INNER/OUTER CORNER PROFILES	
ACT-1	2' x 4' VINYL KITCHEN TILE	USG SHEETROCK	CLIMAPLUS PERFORMANCE VINYL LAMINATED GYPSUM CEILING TILES	FLAT WHITE	SQUARE EDGE	15% EXPOSED TEE TRACK & M7 36" MOLDING - FLAT WHITE.	SPECIAL			212	
-	METAL CLNG, TILE				1	15/16" T-GRID, FACTORY FINISH	AQ-1	ACOUSTIC PANEL (BAR/DINING CEILING)	OWENS CORNING	SOUND SELECT	BLACK
ACT-2	(EXPO, HALL)	AMERICAN TIN	#7. DROP-IN, NON-ACOUSTIC	GUN METAL		MATTE BLACK, ARMSTRONG OR EQUAL, FIELD PAINT TO MATCH CEILING TILE FINISH	UP-S1	UPHOLSTERY, SEATS (NON-WOVEN) (BOOTHS, BANQUETTE)	ARCHITEX	WORMWOOD	COLOR TBD
ONCRE	TE / CMU / BRICK				1		UP-B1	UPHOLSTERY, BACKS (WOVEN) (BOOTHS, BANQUETTE)	ARCHITEX	WORMWOOD	COLOR TED
CMU-E	EXISTING CMU BLOCK	EXISTING	1	PAINT, COLOR TBD	1		WC-1A	WALLCOVERING - DIGITAL PRINT #1 ON VINYL	AREA ENVIRONMENTS		
XBK-E	EXISTING EXTERIOR BRICK	EXISTING		REMAIN AS-IS	-			(HALL)	ALLA LATINGIALLATS		
XCC-1	EXTERIOR CONCRETE FLOOR	GC		FINISH TBD			PLST-1	TROWEL PLASTER WALL FINISH, PAINTED (UPPER WALLS DINING/LOUNGE)	9C	NOTCHED-TROWEL FINISH, VERTICAL FLUTING	PAINTED, COLOR TED
							5	h Mi		1.	4
BERGL	ASS REINFORCED PANELS (FRP	Summer a secon	The second secon	E.		INSTALL OVER 5/8" CDX					
FRP-W	(BOH KITCHEN)	KEMLITE or EQUAL	WHITE, SMOOTH	85	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS					
				E	1						
FRPB	BLACK FPR PANELS (BOH BAR DIE WALL)	KEMLITE or EQUAL	BLACK, SMOOTH	1201	4' x 10' SHEET	INSTALL OVER 5/8" CDX PLYWOOD; COORD, W/ FOOD					
0854.04.0	(BOH BAR DIE WALL)	KEMLITE or EQUAL	BLACK, SMOOTH	1201	4' x 10' SHEET						
FRP-B	(BOH BAR DIE WALL) ACRYLIC	No.	BLACK, SMOOTH	1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS					
LASS /	(BOH BAR DIE WALL) / ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS)	GC	BLACK, SMOOTH	1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS					
LASS / AC-1 GL-C	(BOH BAR DIE WALL) ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED	No.	BLACK, SMOOTH	1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS					
LASS / AC-1 GL-C GL-M	(BOH BAR DIE WALL) ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS)	GC GC GC	CORDUROY MINI FLUTED	1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS					
LASS / AC-1 GL-C GL-M GL-F	(BOH BAR DIE WALL)  ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED	GC		1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS					
LASS / AC-1 GL-C GL-M GL-F	(BOH BAR DIE WALL)  ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED RE	GC GC GC BENDHEIM OR EQUAL	CORDUROY MINI FLUTED	1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS					
LASS / AC-1 GL-C GL-M GL-F ARDWA	(BOH BAR DIE WALL)  ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED	GC GC GC	CORDUROY MINI FLUTED	1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS					
LASS / AC-1 GL-C GL-M GL-F ARDWAI W-P1.6 W-P1.10	(BOH BAR DIE WALL)  ACRYLIC ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED  RE 6* PULLS @ MILLWORK CABS.	GC GC GC BENDHEIM OR EQUAL	CORDUROY MINI FLUTED	1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS					
LASS / AC-1 GL-C GL-M	(BOH BAR DIE WALL)  / ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED RE 6* PULLS @ MILLWORK CABS. 10" PULLS @ MILLWORK CABS.	GC GC GC BENDHEIM OR EQUAL MFR. MFR.	CORDUROY MINI FLUTED PRIVACY GLASS, REGULAR	1201	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS					
LASS / AC-1 GL-C GL-M GL-F ARDWA W-P1.6 W-P1.10 HW-G1 HW-H1	(BOH BAR DIE WALL)  / ACRYLIC ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED  RE 6* PULLS @ MILLWORK CABS. 10" PULLS @ MILLWORK CABS. GLIDES @ MILLWORK CABS.	GC GC GC BENDHEIM OR EQUAL MFR. MFR. BLUM	CORDUROY MINI FLUTED PRIVACY GLASS, REGULAR		4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS SOFT / SELF CLOSE					
LASS / AC-1 GL-C GL-M GL-F ARDWA W-P1.6 W-P1.10 HW-G1 HW-H1 ETALS	(BOH BAR DIE WALL)  ACRYLIC ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED  RE 6* PULLS @ MILLWORK CABS. 10" PULLS @ MILLWORK CABS. GLIDES @ MILLWORK CABS. HINGES @ MILLWORK CABS.	GC GC GC BENDHEIM OR EQUAL MFR. MFR. BLUM	CORDUROY MINI FLUTED PRIVACY GLASS, REGULAR		4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS SOFT / SELF CLOSE					
LASS / AC-1 GL-C GL-M GL-F ARDWA W-P1.6 W-P1.10 HW-G1 HW-H1 ETALS XMT-1	(BOH BAR DIE WALL)  ACRYLIC ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED  RE 6* PULLS @ MILLWORK CABS. 10* PULLS @ MILLWORK CABS. GLIDES @ MILLWORK CABS. HINGES @ MILLWORK CABS. EXTERIOR STEEL (SEE STRUCTURAL)	GC GC GC BENDHEIM OR EQUAL MFR. MFR. BLUM BLUM BLUM	CORDUROY MINI FLUTED PRIVACY GLASS, REGULAR TANDEM CLIP TOP		4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS SOFT / SELF CLOSE					
LASS / AC-1 GL-C GL-M GL-F ARDWAI W-P1.6 W-P1.10 HW-G1 HW-G1 HW-H1 ETALS XMT-1 MT-0	(BOH BAR DIE WALL)  ACRYLIC ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED  RE 6* PULLS @ MILLWORK CABS. 10* PULLS @ MILLWORK CABS. GLIDES @ MILLWORK CABS. HINGES @ MILLWORK CABS. EXTERIOR STEEL (SEE STRUCTURAL) STAINLESS STEEL STEEL, STOCK TUBE, SHEET, & ANGLE	GC GC BENDHEIM OR EQUAL BENDHEIM OR EQUAL BENDHEIM OR EQUAL BENDHEIM OR EQUAL GC GC GC GC GC GC GC / FOODSERVICE	CORDUROY MINI FLUTED PRIVACY GLASS, REGULAR TANDEM CLIP TOP	NATURAL BLACKENED, WAX FINISH	4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS SOFT / SELF CLOSE SOFT CLOSE RE: INT. ELEVS. & DETAILS					
LASS / AC-1 GL-C GL-M GL-F ARDWA W-P1.6 W-P1.10 HW-G1 HW-H1 HW-H1 ETALS XMT-1	(BOH BAR DIE WALL)  ACRYLIC ACRYLIC ACRYLIC, MIRRORED, SHEET (MILLWORK WALL MIRRORS) CLEAR, TEMPERED MIRROR GLASS, TEMPERED (RESTROOMS) GLASS, FLUTED  RE 6* PULLS @ MILLWORK CABS. 10" PULLS @ MILLWORK CABS. GLIDES @ MILLWORK CABS. HINGES @ MILLWORK CABS. EXTERIOR STEEL (SEE STRUCTURAL) STAINLESS STEEL	GC GC GC BENDHEIM OR EQUAL MFR. MFR. BLUM BLUM BLUM	CORDUROY MINI FLUTED PRIVACY GLASS, REGULAR TANDEM CLIP TOP		4' x 10' SHEET	PLYWOOD; COORD. W/ FOOD SERVICE DRAWINGS RE: INT. ELEVS. & DETAILS RE: EXT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS RE: INT. ELEVS. & DETAILS SOFT / SELF CLOSE SOFT / SELF CLOSE					

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USHED GRAPHITE		RE: INT. ELEVS.
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USHED GRAPHITE	.e.	RE: FLOOR FINISH PLANS
USHED GRAPHITE		RE: FINISH PLANS
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		RE: INT. ELEVS. & DTLS.
D	3/4"x5-1/2"	ARCH. TO PROVIDE CONTROL SAMPLE FOR COLOR & FINISH RE: INT, ELEVS, & DETAILS
FINISH TBD W/ E	SEE MILLWORK DTLS.	
FINISH TBD W/	SEE MILLWORK DTLS.	RE: INT. ELEVS.
		RE: RCP & DTLS,
, SEMI-GLOSS	1/4" THICK	VERTICAL & 45-DEGREE INSTALLATIONS - SEE: INT. ELEVS.
		10
Ĩ	1" THICK	
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		ALLOW \$40/YD
	i i	ALLOW \$40/YD; VERTICAL FLUTES @ BANQUETTE
	-	ONLY PROVIDE LEVEL-5 SUBSTRATE
		VIF REQ'D SIZE
		ARCHITECT TO PROVIDE REFERENCE IMAGE FOR DESIRED TEXTURE; PROVIDE FIELD MOCK-UP FOR REVIEW

### FINISH NOTES:

- 1. MOCK-UP 2x2 FT. SAMPLE OF ALL PAINT COLORS FOR OWNER/ARCHITECT REVIEW AND APPROVAL PRIOR TO PAINTING SURFACES
- 2. PROVIDE PHYSICAL AND/OR DIGITAL SAMPLE SUBMITTALS TO ARCHITECT FOR ALL INTERIOR AND EXTERIOR FINISHES
- 3. PROVIDE MANUFACTURER GROUT COLOR CHART/SAMPLES TO ARCHITECT & OWNER.
- 4. REFERENCE SPECIFICATION FOR FURTHER TILE SETTING METHODS
- 5. WATERPROOF ALL WET AREAS, FLOORS AND WALLS UP TO 6" VERTICALLY & 12" HORIZONTALLY, INCLUDING RESTROOMS, BAR, KITCHEN & MECHANICAL AREAS PER FLOORING MANUFACTURER'S RECOMMENDED PRODUCT.
- 6. USE OPAQUE PAINTABLE SEALANT BETWEEN ALL DISSIMILAR MATERIALS WHERE ONE OR BOTH OF THE MATERIALS ARE PAINTABLE.
- 7. PAINT SEALANT TO MATCH PAINTED SURFACE. AVOID THE USE OF CLEAR SEALANTS EXCEPT AT THE FOLLOWING GENERAL LOCATIONS:
- 7.1. STAINLESS STEEL TO ANY OTHER SURFACE THAN PAINTED DRYWALL
- 7.2. MILLWORK TO MILLWORK
- 7.3. STOREFRONT TO ANY OTHER SURFACE THAN PAINTED DRYWALL
- 7.4. AS SPECIFICALLY NOTED ON THE PLANS
- 7.5. USE EPOXY PAINT AT WET LOCATIONS.

#### 8. GC TO PROVIDE SAMPLES OF ALL PAINTED AND STAINED MATERIALS FOR OWNER AND ARCHITECT REVIEW AND APPROVAL PRIOR TO WORK COMMENCING.

- 9. INTERIOR TILE GROUTS & SEALERS:
- 9.1. SANDED, TYP.
- 9.2. EPOXY AT WET LOCATIONS
- 9.3. CLEAR ACRYLIC SEALER OR USE MAPEI POLYMER GROUT ADDITIVE
- 10. TRANSITIONS STRIPS:
- 10.1. U.N.O. ALL EXPOSED TILE EDGES AND TRANSITIONS TO DISSIMILAR MATERIALS TO RECEIVE TRANSITION STRIP RE: FINISH SCHEDULE
- 11. DRYWALL FINISH:
- 11.1. U.N.O. ALL DRYWALL WALLS, CEILINGS, & SOFFITS SHALL BE LEVEL-4 FINISH
- 11.2. PROVIDE LEVEL-5 FINISH AT ALL DRYWALL SURFACES THAT ARE TO RECEIVE VINYL WALL COVERING

## PAINT SHEEN NOTES:

- 1. NO COLOR MATCHING; USED SPECIFIED MFR. ONLY
- 2. INTERIOR WALLS:
- 2.1. PRO-200 LOW-GLOSS EGGSHELL
- 3. INTERIOR CEILINGS:
- 3.1. FLAT
   4. <u>INTERIOR BASE, CASE, TRIM, DOORS, WALL PANELS, MOULDING:</u>
   4.1. SEMI-GLOSS



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460 MAIN STREET LONGMONT, COLORA

PROJECT No:	
	202305
ISSUE DATE:	
10002 0/112.	09/22/23
REVISIONS:	

SHEET TITLE:

FINISH SCHEDULE

## **OUTLINE SPECIFICATIONS:**

**DIVISION O - CONDITIONS OF THE CONTRACT** 

A. GENERAL CONDITIONS:

1. Unless otherwise noted in written form and approved by Owner and Architect the terms and conditions set forth herein, inclusive of "for construction" set of drawings shall be followed by Contractor. The "General Conditions of the Contract For Construction", AIA Document A201, Fourteenth Edition, 2017, Articles 1 through 15 inclusive, is a part of the Contract and is incorporated as fully as if here set forth.

B. SUPPLEMENTARY CONDITIONS:

1. INSURANCE: A. The Contractor shall procure, pay for, and maintain at all times during the prosecution of the work under the, various forms of insurance with carriers acceptable to the Owner. All insurance policies shall have the Architect, design consultants, the Owner, and their employees as additional insurers. Contractor shall furnish insurance policies to Owner prior to commencement of work.

**DIVISION 1 - GENERAL REQUIREMENTS** 

- A. GENERAL:
- 1. The project has been designed in accordance with applicable codes. Contractor shall comply with code requirements for construction and inform Architect of discrepancies observed or noted by others.
- 2. Contractor shall not scale Drawings. "Written or insist " dimensions will govern. Contractor shall verify all dimensions and conditions at job site and notify Architect in writing of conflicts or discrepancies before proceeding. Contractor shall not delay work.
- 3. All dimensions shown on architectural drawings are from finish surface, unless noted otherwise.
- 4. Contractor shall apply for and bear the cost of all fees, permits. licenses, inspections, tap charges and other agency requirements for temporary and permanent services or utilities to commence and complete the work.
- 5. The Contractor shall protect the work and all adjacent property from loss or damage resulting from operations. In the event of such loss or damage, Contractor shall make such replacements or repairs as required without additional cost to Owner.
- B. TESTING SERVICES:
- 1. The Contractor will pay for all initial testing services requested by the Owner.
- 2. Inspections and tests required by codes or ordinances, or by a plan approval authority, and made by a legally constituted authority, shall be the responsibility of and shall be paid for by the Contractor, unless otherwise provided in the Contract Documents.
- 3. Inspection or testing performed exclusively for the Contractor's convenience shall be the sole responsibility of the Contractor.
- 4. Representatives of the testing laboratory shall have access to the work at all times; provide facilities for such access in order that the laboratory may properly perform its functions.
- 5. All specimens and samples for testing, unless otherwise provided in these Contract Documents, will be taken by the testing laboratory; all sampling equipment and personnel will be provided by the testing laboratory; and all deliveries of specimens and samples to the testing laboratory will be performed by the testing laboratory.
- C. TEMPORARY FACILITIES AND UTILITIES:
- 1. The Contractor shall provide, maintain and make available to subcontractors, temporary job site facilities as required to complete the work, including but not limited to:
- A. Field office
- B. Portable toilet facilities Lockable storage shed, or containers
- Trash bins
- Temporary telephone (3) G.C.
- Electrical powe G. Water service
- H. Temporary heating and air conditioning
- Construction fences, barriers and security devices J. Voice mail
- K. Digital Camera and Email
- D. CONSTRUCTION CLEANING:
- 1. Provide central trash collection facility for use of all trades and dispose of collected trash at least every 14 days. Each Contractor and Subcontractor is responsible for cleaning his work and removing his trash to the central collection point daily. On-site burning is not permitted. Do not allow trash to be blown away or to litter the site or adjacent areas. Do not use Owner's waste receptacles.
- 2. The Contractor shall keep the premises free from accumulation of waste materials or rubbish caused by his employees and subcontractors. At the completion of the work the Subcontractors shall remove from building and site all rubbish, tools, and surplus materials and leave the work swept broom clean. Should Subcontractor ignore removal of debris, Owner will clean up and haul off debris and transfer appropriate costs to the Subcontractor (including labor, material, equipment, OH&P). General Contractor to provide entire project completely cleaned and ready for business. Clean all windows, light fixtures, stainless, etc. Change all HVAC filters to pleated on T.O. day and clean 1 day after T.O.
- E. COORDINATION:
- 1. Contractor shall coordinate the work of the all trades affecting his/her work.
- 2. Mechanical, Electrical & Plumbing Contractors to be fully coordinated with each other and with General Contractor regarding supply, installation, controls, and proper operation of all equipment.
- F. SEPARATE CONTRACTS:
- 1. Contractor shall cooperate with Owner and other Contractors performing work under separate contracts to ensure project progress according to schedule.
- G. CUTTING AND PATCHING:

1. Contractor shall cut and fit components for alterations of existing work and installation of new work. Patch disturbed areas to match adjacent materials and finishes. Cost associated with same are included.

- H. FIELD ENGINEERING:
- 1. Contractor shall provide field engineering services, establish grades, lines and levels by use of recognized engineering and surveying practices. Contractor responsible for all required layout. Contractor must review actual site and is responsible for all field conditions. conflicts with field conditions and Construction Documents shall be brought immediately to the attention of Architect.
- 2. Contractor shall locate and protect control and reference points. I. UTILITIES:
- 1. Contractor responsible to locate and protect all existing utilities as required.
- 2. The Contractor shall determine the location of utility services in the area and notify utility company and Owner's representative prior to beginning construction.
- J. MARKED-UP DRAWINGS:
- 1. During the prosecution of the Work, Contractor shall maintain a complete set of Contract Drawings in job office, upon which set he/she is required to note in red, or other clear manner, all authorized deviations from the Contract Documents. Marked-up Drawings prepared from this job set are a part of the project close-out documents and made available to Architect and the Owner.

K. SUBMITTALS:

- 1. Contractor shall inform Owner's Representative in writing at time of bid submission of any proposed deviation from requirements of Contract Document
- 2. Submittal by Contractor represents that field measurements. field construction criteria, materials, catalog numbers and similar data have been reviewed and verified by Contractor, and that each has been checked and coordinated with requirements of Contract.
- 3. Architect's review of submittals shall be for design concept only and shall not be construed as approving departures from Contract Documents.
- 4. Contractor shall provide to Architect the following submittals:
- A. Product Data: (1) Contractor shall submit a digital copy for each stock manufactured items.
- (2) Contractor shall indicate item to be used where data for more
- than one product is provided. (3) Provide manufacturer's certification that specified materials meet VOC limits per regulation 8, Rule 51 of Bay Area Air Quality Management District standards. Provide cut sheet and MSDS for each sealant and adhesive highlighting VOC limits and chemical component.
- B. Shop Drawings: (1) Contractor shall submit drawings for all
- custom fabricated products and products not fully identified by product data.
- C. Manufacturers' Samples: (1) Contractor shall provide two samples of each exposed finish, minimum size 6" square.
- L. MATERIAL AND EQUIPMENT:
- 1. Material and equipment shall be new and of a type intended usage indicated. Like components shall be by one manufacturer and for component parts shall be interchangeable.
- 2. Contractor shall comply with industry standards for workmanship except when more stringent tolerances are required. Exceptions made by Owner or Architect and will be documented to Architect and Owner.
- 3. Contractor shall assure that all work is performed by persons qualified to produce workmanship of the specified quality.
- 4. Contractor shall secure all products in place with positive anchorage devices designed and sized to withstand stress, vibration, and racking.
- 5. Contractor shall transport, handle, store, protect and install manufactured items in strict accordance with manufacturers' recommendations. Should conflict exist between Construction Documents and manufacturers' instructions, Contractor should consult with Owner's Representative.
- 6. Contractor shall protect products and finishes from damage during construction operations.
- M. SUBSTITUTIONS:
- 1. Contractor shall make every effort to provide products specified.
- 2. Substitutions will be considered if: Contractor has submitted substitution to Architect in writing. B. Contractor has investigated proposed product and determined that it is equivalent to that specified.
- C. Contractor has indicated in writing cost, time or other benefits for substitution
- 3. Architect shall be judge of acceptability and reserves right to reject proposed substitution.
- N. CONTRACT CLOSE OUT:
- 1. Contractor shall provide documentation stating work has been substantially completed. Where Owner requires use of space prior to final completion, Contractor shall provide punch list of items to be completed to Owner's Representative.
- 2. Owner's Representative will review list of any items to be completed and supplement list with items considered to be incomplete or unacceptable and determine a mutually acceptable time frame for completion within the following week.
- 3. At completion of work or prior to Owner move-in, Contractor shall employ skilled workmen for final cleaning, including glass, glossy surfaces floors and finishes.
- 4. Contractor shall provide project record documents, material and finish data, operation and instruction manuals, warranties and bonds at project completion. Submit (3 each) bound in 8 1/2" x 11" three-ring binders with durable plastic covers along with a digital copy. Arrange in format similar to specifications.
- 5. Contractor shall instruct Owner in operation, adjustment and maintenance of equipment and systems, using operation and maintenance data as basis of instruction.
- 6. Contractor shall submit (marked-up) record Drawings to owner.
- 7. Contractor shall provide evidence of payments and release of liens to Owner. Contractor will sign lien waiver prior to receipt of monthly progress payment.
- 8. Contractor shall obtain Certificate of Occupancy and provide to Owner.
- 9. Contractor shall provide final Certificate for Payment to Owner.

#### **DIVISION 2 - SITE WORK**

A. EARTHWORK: (RE:CIVIL / STRUCTURAL DRAWINGS)

- 1. EXCAVATION AND BACK FILL FOR NEW CONSTRUCTION:
- A. Clean and recompact old fill
- . Dispose excess fill off site
- Use of explosives prohibited D. Compaction
- (1) Standard Test ASTM D698 (2) Structural fill: 95% of Standard Proctor Density
- (3) Paving and slab fill: 95%
- (4) Landscape fill: 90%
- (5) Moisture: +or- 2% of optimum
- DIVISION 3 CONCRETE (RE:STRUCTURAL DRAWINGS)
- A. CAST-IN-PLACE CONCRETE: 1. GENERAL:
  - A. Cast-in-place concrete as shown on the drawings and covers forming, reinforcing, concrete, placement, consolidation, curing, stripping and finishing.
- 2. QUALITY ASSURANCE:
- A. ACI 301 "Specifications for Structural Concrete for Buildings": ACI 347 "Recommended Practice for Concrete Form work"; ACI 304 "Rec-recommended Practice for Measuring, Mixing, Transporting and Placing Concrete"; comply with applicable provisions and other standards referenced therein, except as otherwise indicated. Conform to ACI 301, ACI 347, and ACI 117 for tolerances.
- 3. CONCRETE MATERIALS:
- A. Portland Cement: ASTM C150, Type I.
- Aggregates: ASTM C33.
- . Water: Clean, drinkable.

mesh reinforcement. G. Ready-Mix Concrete: ASTM C94.

D. Fly Ash, ASTM C618, Class F or C, may be used as cement replacement but not to exceed 20% by weight of cement. E. Provide 4000 psi minimum 28 day compressive strength mix having

H. Color additives- per plans and finish specifications.

less than 5.5 sacks of cu. yd. for all concrete not otherwise indicated. F. Provide 4000 psi mix with not less than 6 sacks of cement per cu. vd. with water reducing admixture for flatwork. Including fibrous

#### 4. REINFORCEMENT:

- A. Deformed Reinforcing Bars: ASTM A615, Grade 60 unless otherwise indicated. Use grade 40 for ties and for dowels to be field bent.
- JOINTS:
- A. Provide isolation and control joints as indicated or required. Place isolation and control joints in slab-on-ground to stabilize differential settlement and random cracking.
- B. Comply with the specified codes and standards, CRSI "Manual of Standard Practice", ACI 301 and ACI 318. Do not weld reinforcing unless so indicated or specifically acceptable to an Architect.
- C. Install welded wire fabric in as long lengths as practicable, lapping at least one mesh.
- B. INTERIOR CONCRETE FLAT WORK:
- 1. GENERAL:
- A. Edge and face forming for interior on-grade slabs; the conveying, placement, finishing and curing of all interior on-grade slabs.
- 2. QUALITY ASSURANCE: A. Conform to applicable ACI, ASTM, and PCA standards.
- 3. REINFORCING, CONCRETE MATERIALS:
- A. Conform to applicable requirements for cast-in-place concrete.
- JOINTS:
- A. Expansion and Isolation Joints: Closed cell polyethylene foam, 0.5" thick, 4" deep B. Control Joints: 0.125" to 0.25" thick plastic or hardwood strips of
- depth equal to 25% or more of slab thickness except where otherwise shown.
- C. Construction Joints: Burke "Keyed Kold", Jahn "Load Key Joint" or approved equal.
- D. Isolate flat work from building elements, walls, columns, with control or slip joints unless otherwise indicated.
- E. Form construction joints with specified construction joint form.
- 5. FINISHING:
- A. Apply float finish to monolithic slab surfaces that are to receive trowel finish and other finishes. B. Apply trowel finish to monolithic slab surfaces that are to be
- exposed to view, or are to be covered with carpet, resilient flooring, paint, or other thin-film finish coating system.
- C. For interior surfaces to be left exposed use curing-hardening sealing compound, as indicated on drawings.

#### **DIVISION 4 - MASONRY**

- A. UNIT MASONRY:
- GENERAL:
- A. Concrete Masonry Units as shown on the drawings and in schedules
- B. Face brick as shown on the drawings.
- C. Natural stone veneer as shown on drawings.
- 2. QUALITY ASSURANCE:
- A. Except where otherwise specified comply with recommendations of BIA and BIA Technical Notes, International Masonry Institute NCMA, and ANSI/NBS 211-1954+174 B. Concrete Masonry Units (CMU): Conform to ASTM C90. Grade N.
- Type 1, made with approved ASTM C331 lightweight aggregate. MORTAR MATERIALS
- A. Portland Cement: ASTM C150, Type I.
- B. Hydrated Lime: ASTM C207, Type S.
- C. Sand: ASTM C144, except for joints less than 0.25", use an
- aggregate grated with 100% passing the NO. 16 sieve. D. Aggregates for Masonry Grout: ASTM C404, size 1 for fine
- aggregate, size 8 or 89 for coarse. E. Water: Clean, potable and free of salts or alkalis which could cause efflorescence.
- 4. CONTINUOUS REINFORCING TIES:
- A. Provide welded wire units prefabricated in straight lengths of not less than 10', with matching corner and tee units. Fabricate from 9 gage cold drawn steel wire complying with ASTM A82, with deformed continuous side rods and plain cross-rods, and a unit width of 1.5" to 2" less than thickness of wall or partition.
- Furnish with galvanized finish, ASTM A641, Class 1. B. Provide with perpendicular (ladder) cross ties.
- C. Provide tab, ladder split tail, dowel and other anchors as required for stone and brick work.
- 5. PATTERN BOND:
- A. Lay exposed masonry in running bond.
- Bond and interlock each wythe at corners unless otherwise shown
- B. Reference drawings for brick pattering and mock up unique conditions. C. Reference drawings for stone patterns and conditions. Mock up pilaster.
- 6. MORTAR MIXES:
- A. For all locations not otherwise specified, conform to ASTM C270, type N Proportions. Color TBD - Contractor to provide color chart color chart sample for approval.
- 7. GROUT MIXES: A. ASTM C476, proportioned as follows:
- (1) Fine: 1 part cement, 0.10 part lime, 2.25 to 3 parts sand 2500 psi
- (2) Coarse: 1 part cement, 0.10 part lime, 2.25 to 3 parts sand, 1.5 to 2 parts coarse aggregate, 2500 psi.
- 8. JOINTS:
- A. Except where otherwise shown lay walls with 0.375" joints. Cut joints flush for masonry walls which are to be concealed or to be covered by other materials. Tool exposed joints slightly concave.
- 9. PRODUCT:
- A. Concrete masonry units as specified on structural drawings B. Face Brick - Summit Brick 410A Bonfire Smooth with colored grout. Final selection of brick and mortar pending.
- C. Natural Stone Veneer Masonville Buff sandstone

- **DIVISION 5 METALS**
- A. STRUCTURAL METAL FRAMING (RE: STRUCTURAL DRAWINGS)
- 1. STRUCTURAL STEEL:
- A. ASTM A36 steel, fabrication, design and erection conforming to AISC standard specifications.
- B. Connections: Shop welded; field welded and bolted as required. B. METAL FABRICATIONS:
- 1. GENERAL:
- A. Metal fabrications work as shown on drawings for items fabricated from iron and steel shapes, plates, bars, strips, tubes, pipes, and castings which are not a part of structural steel or other metal systems specified elsewhere.
- 2. FERROUS METALS:
- A. Steel plates, shapes and bars: ASTM A36.
- Steel Plates to be Bent or Cold-Formed: ASTM A238, Grade C. Steel Pipe: ASTM A53; type as selected; Grade A; black finish, Schedule 40, unless otherwise indicated
- Provide zinc-coated fasteners for exterior use or where built into exterior walls. Select fasteners for the type, grade and class required.
- E. Furnish bent or otherwise custom fabricated bolts, plates, anchors, dowels' and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete structures.
- **DIVISION 6 WOOD AND PLASTICS**
- A. ROUGH CARPENTRY
- 1. GENERAL:
  - A. Carpentry work as shown on drawings/and work normally performed by carpenters not elsewhere specified and generally not exposed to normal view.
- 2. QUALITY ASSURANCE:
- A. Lumber: Comply with PS 20, WWPA Grading Rules and other
- grading rules as specified. FSC certified where applicable. B. Plywood: Comply with PS 1, "U.S. Product Standard for Construction and Industrial Plywood" free of any added urea formaldehyde resins.
- PRODUCTS:

Provide dressed lumber, S4S, unless otherwise shown or specified, seasoned or kiln dried to maximum 19% moisture content except for thicknesses less than 2" nominal limit to 15%.

- A. Dimension Lumber:
- (1) West Coast Douglas Fir-Larch or Hem-Fir when graded under NLGA, WCLIB, or WWPA.
- (2) Studs: Stud, No. 3 or Standard Grade (4X6 max). (3) Light Framing: Standard Grade (4X4 max). (4) Structural Light Framing: Douglas Fir-Larch No. 2 or Hem-Fir
- No. 2 (4x4 max.)
- (5) Structural Framing: (2" to 4" thick, 5" and wider) Douglas Fir-Larch No. 2 or Hem-Fir No. 2 with allowable stress rating of F = 1200 psi for single use and 1400 psi for repetitive
- member use, and E = 1,500,000 psi. (6) Beams and Stringers: Douglas Fir-Larch No. 1 and Hem-Fir Select Structural when graded under WCLIB rules.
- (7) Furring, Blocking: Standard Grade, any species. B. Plywood:
- (1) Underlayment: APA Rated, fully sanded face, Exposure 1, Group 1 or 2 species, span rating and thickness as shown on drawings or as required to meet job conditions. Furnish with fire retardant treatment as indicated. (2) Exposed at storage : Sturd-I-Floor.
- (3) Interior Exposed Plywood, for Paint: APA A-D, Group 1 or 2, Exposure 1 or 2.
- (4) Telephone or Electrical Equipment Backing Board: APA C-D, Group 1 or 2, Exposure 1 or 2, 0.5" thickness. Furnish with
- fire retardant treatment.
- B. FINISH CARPENTRY:
- 1. GENERAL:
- A. Finish carpentry as shown on the drawings for plastic laminate counters, wood shelving, FRP panels, and other finish carpentry not included in other sections.
- 2. QUALITY ASSURANCE:
- A. Except as otherwise shown or specified, comply with specified provisions of the Architectural Woodwork Institute (AWI) " Quality Standards
- (1) Standing and Running Trim: AWI Section 300, custom grade. (2) Casework and Countertops: AWI Section 400, custom grade. (3) Shelving: AWI Section 600, custom grade. (4) Miscellaneous Work: AWI Section 700.
- 3. PRODUCTS:
- A. Provide kiln-dried lumber. 6% to 11% for solid wood, 4% to 9% at time of installation
- B. Wood Shelving: Industrial grade particle board with hardwood filled bullnose edges.
- C. Interior Wood Trim: AWI Custom Grade of plain sawn for stain finish.
- D. All exposed wood at door and window frames, sills, sash and

manufacturer's full line.

complete installation.

- related integral parts of composite units shall be plain sawn for stain finish. E. Particleboard: Medium density (37 to 50 lbs/cu. ft) ANSI A208.1,
- Grade 1-M-1, wood chip and phenolic resin binders, compressed board, 0.675" thickness with guarter sawn veneer at exposed surfaces unless otherwise indicated. Must be free of any added urea formaldehyde resins.

pattern and finish as indicated for each application; if not

colors, patterns, finishes as selected by Architect from

indicated, use PF-42 for post-forming and GP-50 elsewhere,

"FRP Panel", Class C Rating, 4'X8' X 3/32" panels, smooth

equal Include PVC moldings as indicated or required for a

F. Plastic Laminates: Comply with NEMA LD3; type, thickness, color,

. Fiberglass Reinforced Polyester Panels: Provide sanitary wall system

finish, color / mfg as indicated in finish specification or approved

**DIVISION 7 - THERMAL AND MOISTURE PROTECTION** 

#### A. INSULATION: 1. FLOORS:

- A. Provide 2" Dowboard noncompressible insulation, 25 psi min. where indicated on drawings.
- 2. SOUND ATTENUATION (Walls or Ceilings): A. Sound Attenuation Blankets: ASTM C665, Type I, semi-rigid mineral or glass fiber blankets without membrane. Provide 3" mineral fiber 3.0 lb. density or full thickness of 1.0 density glass fiber.
- 3. EXTERIOR WALL/FLOOR/CEILINGS BATTS:

A. Blow cellulose insulation: ASTMC-739. Loose-fill cellulose to a density that will prevent settlement w/reinforced vapor barrier. 4. WALLS:

A. Extruded Polystyrene rigid foam insulation. Provide weather barrier appropriate to wall assembly and associated Z girts for support of finishes

- B. FIRE RESISTANT BOARD: (Not Used)
- C. FIBERGLASS ROOF PANELS: (Not Used)
- D. FLASHING AND SHEET METAL
- 1. GENERAL:
- A. Flashing and sheet metal work as shown on the drawings for: (1) Wall Panels (2) Downspouts
- (3) Metal flashing and counter flashing
- (4) Exposed metal trim (5) Copings and wall caps
- (6) Sealants for sheet metal
- 2. QUALITY ASSURANCE:
- A. Except as otherwise noted, conform to requirements and recommendations of SMACNA "Architectural Sheet Metal Manual" Forth Edition, 1987, as applicable and including forming, anchoring, cleating and forming expansion joints,
- seams and details for accommodation of thermal movement. B. Metals: Mill Phosphatized Zinc-Coated Steel Sheet: Commercial quality carbon steel sheets with minimum of
- 0.20% copper content complying with ASTM A526 or A527 for lock-forming; hot-dip galvanized to comply with ASTM A525, G90, mill phosphatized, 0.0359" thick (20 gauge) except as otherwise indicated.
- Hanging Gutters: Fabricate using prefinished metal to profiles shown either in individual 8' to 10' lengths or by roller forming from coil stock to 40' maximum lengths. For formed sheet gutters, lap across joints 1.5", rivet and solder.
- D. Downspouts: Fabricate using prefinished metal to profiles shown either in 8' to 10' lengths or by roll forming from 26
- gauge coil stock, with full -locked longitudinal joints. Rubberized Asphalt sheet of 60 mil thick. self adhering sheet
- applied to back wrap all window openings and where indicated on drawings. Mfg.: Carlisle Corp., W.R. Grace or equal.
- E. ROOFING:
- 1. GENERAL: A. Mechanically fastened TPO roofing system
- B. Fully adhered TPO roofing system C. Ballasted TPO roofing system
- 2. QUALITY ASSURANCE: A. Energy Star Rated
- B. MFG licensed installer w/ min. 10 years experience. Provide min. 15 year warranty.
- 3. PRODUCT: A. White TPO, Carlisle Sure-Weld or equal.
- F. JOINT SEALERS:
- 1. GENERAL: A. Each form and type of joint sealer as shown on the
  - drawings or as specified, including, but are not necessarily
  - limited to the following: (1) Exterior penetrations and joints between different materials.
  - (2) Floor (interior) joints and penetrations (3) Partition and ceiling joints
  - (4) Sealants for penetrations and joints at fire-rated constructions (5) Interior joints between different materials
- 2. WARRANTY:
- A. Submit 2 copies of written 2-year warranty agreeing to repair or replace joint sealers which fail to perform as airtight and watertight joints: or fail in joint adhesion, cohesion, abrasion resistance, weather resistance, extrusion resistance, migration resistance, stain resistance, or general durability; or appear to deteriorate in any other manner.
- 3. MANUFACTURERS:
  - **Dow Corning Corporation** General Electric Company Mameco International, Inc. Pecora Corporation
  - Sika Corporation Sonneborn Building Products Division, Rexnord Chemical Products, Inc. Tremco, Inc.
- 4. MATERIALS:
- A. Elastomeric Sealants (For all exterior joints and penetrations, and at penetrations and joints at all interior wet areas) (1) For Elastomeric sealants, comply with ASTM C920 requirements, including those for Type, Grade, Class and Uses.
- B. Latex Sealants (For all other interior joints)
- (1) One part, non-sag, mildew resistant, acrylic emulsion sealant complying with ASTM C834, paintable, recommended by manufacturer for exposed interior applications.
- C. Low Emitting Materials
- (1) For interior applications use adhesives and sealants that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA method 24):
  - 1. Wood Glues: 30 g/L.
  - 2. Metal to Metal Adhesives: 30 g/L.
  - 3. Adhesives for Porous Materials (Except Wood): 50 g/L.
  - 4. Subfloor Adhesives: 50 g/L.
  - 5. Plastic Foam Adhesives: 50 g/L. 6. Carpet Adhesives: 50 g/L.
  - 7. Carpet Pad Adhesives: 50 g/L.
  - 8. VCT and Asphalt Tile Adhesives: 50 g/L.
  - 9. Cove Base Adhesives: 50 g/L. 10. Gypsum Board and Panel Adhesives: 50 g/L
  - 11. Rubber Floor Adhesives: 60 g/L.
  - 12. Ceramic Tile Adhesives: 65 g/L
  - 13. Multipurpose Construction Adhesives: 70 g/L.
  - 14. Fiberglass Adhesives: 80 g/L. 15. Structural Glazing Adhesives: 100 g/L
  - 16. Wood Flooring Adhesive: 100 g/L.
  - 17. Contact Adhesive: 250 g/L. 18. Plastic Cement Welding Compounds: 350 g/L.
  - 19. ABS Welding Compounds: 400 g/L.
  - 20. CPVC Welding Compounds: 490 g/L.
  - 21. PVC Welding Compounds: 510 g/L
  - 22. Adhesive Primer for Plastic: 650 g/L. 23. Sealants: 250 g/L.
  - 24. Sealant Primers for Nonporous Substrates: 250 g/L. 25. Sealant Primers for Porous Substrates: 775 g/L.
- D. White marble 20 mm

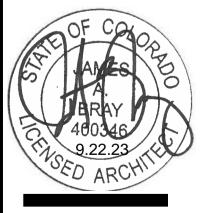


# **CUCIN** STREET COLOR/ 460 LONGMC 0 O O Щ

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MAI ONT,



PROJECT No:	
	202305
ISSUE DATE:	
	09/22/23
REVISIONS:	

OUTLINE SPECIFICATIONS

**A8.0** 

## **OUTLINE SPECIFICATIONS:**

#### continued

#### G. EXTERIOR STUCCO 1. GENERAL:

Exterior Insulation and Finish System (EIFS) Class PBS, designed for use on noncombustible or combustible type construction. Installed over a code approved water-resistive barrier (sheet type) and consists of a drainage medium and drainage accessories, expanded polystyrene insulation board, adhesive or mechanical attachment method, base coat with reinforcing mesh and finish.

PRODUCTS:

#### A. Configuration options include: Option 1:

System Configuration	Drainage Resistive Barrier		EPS Min. Thickness	Attachment	Base Coat
1	Sheet Membrane	Drainage Mat	25 mm (1in)		Genesis or Genesis DM
2	Sheet Membrane	Grooved Insul. Board	38 mm (1in)	1	Genesis or Genesis DM

### Option 2:

- B. Requirements: (1) Acceptable substrates shall be:
- a. Exterior grade gypsum sheathing meeting ASTM AC 1396 (formerly AC 79) requirements for water resistant core or Type X core at the time of application of the Outstation Systems 1-5. b. Unglazed brick, cement plaster, concrete or masonry (water-
- resistive barrier not required).
- c. Exterior grade fire retardant treated plywood.
- (2) Deflection of substrate systems shall not exceed 1/240 times the span.

(3) The substrate shall be flat within 6.4 mm (1/4 in) in a 1.2 m (4 ft) radius.

#### C. Expansion Joints:

- Design and location of expansion joints in the Outsulation LCMD Systems 1-5 is the responsibility of the project designer and shall be noted on the project drawings. As a minimum, expansion joints shall be placed at the following locations:
  - a. Where expansion joints occur in the substrate system.
  - b. Where building expansion joints occur
  - ac. At floor lines in wood frame construction. d. At floor lines in non-wood framed buildings where significant
  - movement is expected.
  - e. Where the Outsulation LCMD Systems 1-5 abuts dissimilar materials
  - f. Where substrate type changes.
  - g. Where the prefabricated panels abut one another.
  - h. In continuous elevations at intervals not exceeding 23m (75 ft). i. Where significant structural movement occurs such as changes in roofline, building shape or structural system.

#### D. Terminations:

(1) Prior to applying the Dryvit Outsulation LCMD Systems 1-5, wall openings shall be treated with Dryvit Flashing tape. Refer to Dryvit Outsulation LCMD Systems 1-5 installation Details, DS170 (2) The Outsulation LCMD Systems 1-5 shall be held back from adjoining materials

around openings and penetrations such as windows, doors and mechanical equipment a minimum of 19mm (3/4 in) for sealant application. See Dryvit's Outsulation LCMD Systems 1-5 installation details, DS170. (3) The systems shall be terminated a minimum of 203 mm (8 in) above finished grade.

- (4) Sealants a. Shall be manufactured and supplied by others.
- b. Shall be compatible with Outsulation LCMD Systems 1-5 sealants
- tested by sealant manufacturer for compatibility. ac. The sealant backer rod shall be closed cell.
- E. Flashing:

Flashing shall be provided at all roof-wall intersections, windows, doors, chimneys, decks, balconies, and other areas as necessary to prevent water from getting behind the Outsulation LCMD Systems 1-5.

#### 3. EXECUTION:

A. Install per manufacturer's recommendation by tradesman with min. of five years experience with similar applications. Bases for specification Dryvit LCMD Systems 1-5.

#### DIVISION 8 - DOORS AND WINDOWS A. STANDARD STEEL DOORS AND FRAMES:

#### 1. GENERAL:

A. Standard steel doors and frames manufactured in accordance with SDI Recommended Standards (1) Doors: Flush, hallow or composite construction standard steel doors for interior and

exterior locations (2) Frames: Pressed steel frames for doors, transoms, sidelights, mullions, interior glazed panels, and other interior and exterior openings of following type: Knockdown field assembled type, except where fire rated.

#### 2. QUALITY ASSURANCE:

A. Provide doors and frames complying with the Steel Door Institute "Recommended Specifications for Standard Steel Doors and Frames" ANSI/SDI 100, and as herein specified.

B. Wherever fire-rated door assemblies are indicated or required, provide fire-rated door and frame assemblies that comply with NFPA 80 and have been tested, listed and labeled in accordance with ASTM E152 by UL, FM, or other testing and inspection agency acceptable to authorities having jurisdiction.

#### 3. PRODUCTS:

A. Doors:

(1) Conform to ANSI/SDI 100, Grade II, Model 1 for materials quality, metal gauges and construction details. Close ends with flush channels on exterior doors. Interior doors may have flush or recessed channel ends. (2) At exterior locations and elsewhere as shown or scheduled, provide doors which have been fabricated as thermal insulating. (3) Unless otherwise indicated, maximum U factor for thermal rated assemblies is 0.24 BTU/hr/ft. squared/degrees F.

#### B. Frames:

(1) Conform to ANSI/SDI 100, frames for Grade II doors, widths as indicated, 1.5" face returns.

- B. WOOD DOORS:
- 1. GENERAL:

B. Shop Drawings: Submit Shop Drawings indicating the location and size of each door, elevation of each kind of door, details of construction, location and extent to hardware blocking, fire ratings, and other pertinent data.

- 2. QUALITY ASSURANCE:

A. AWI Quality Assurance (1) "Architectural Woodwork Quality Standards", including Section 1300 "Architectural Flush Doors", of Architectural Woodwork Institute (AWI) for grade of door, core construction, finish and other requirements exceeding those of NWWDA quality standard.

B. Flush Wood Doors:

(1) NWWDA Quality Standards: I.S. 1 "Industry Standard for Wood Flush Doors", of National Wood Window and Door Association (NWWDA). (2) Mat-formed particle board core, CS236 Type I, Density AC, with PC-5 or PC-7 construction. Assemble with Type I adhesive bond, NWWDA 1.5 1.6.

3. INSTALLATION:

A. Install all doors to comply with manufacturer's written instructions, referenced quality standards, and as indicated. Install fire rated doors in corresponding fire rated frames according to NFPA 9=80.

#### C. ALUMINUM STOREFRONT - THERMALLY BROKEN:

- 1. GENERAL:
- A. Aluminum storefront work of the following types: (1) exterior storefront framing
- 2. QUALITY ASSURANCE:

A. Standards: comply with the requirements and recommendations in applicable specifications and standards by NAAMM, AAMA, and AA, including the terminology definitions, except to the extent more stringent requirements are indicated.

3. MATERIALS:

A. Framing: Provide entire system including anchors, connectors, accessories and trim for flush glazing. Fabricate system for glazing with 1" insulating glass units at exterior storefront and 0.25" "lowe" glass at interior storefront.

#### B. Anodized Finish: NAAMM AA-M12C22A42/A44, (min. thickness of 0.7 mils), integral color or electrolytically deposited color, anodized finish complying with AAMA 606.1 or 608.1.

4. PRODUCTS:

A. Fixed storefront - Kawneer Encore or equal B. Operable storefront - Western windows Performance series 7610 single hung and multi-side unit 7600.

#### D. HARDWARE

- 1. GENERAL
  - A. "Builder's" or "Finish" hardware as shown on the drawings and in the schedules.
  - B. Include lock cylinders for locks furnished in other sections where so specified.
- 2. SUBMITTALS:

A. Submit complete detailed hardware schedule sufficiently in advance to assure proper preparation and coordination of other work. Review and acceptance by the Architect or Owner does not relieve the Contractor of his exclusive responsibility to fulfill the r requirements as shown and specified.

#### B. Wherever needed, furnish templates to fabricators of other work which is to receive finish hardware.

- C. Prepare keying schedules for approval, and key locks in accordance with approved schedule.
- 3. QUALITY ASSURANCE:

#### A. Suppliers: A recognized builder's hardware supplier who has been furnishing hardware in the project's vicinity for a period of not less than 2 years, and who is, or employs an experienced AHC certified hardware consultant.

B. Warranty: Furnish 2 copies of written warranties for failure of any hardware part for 2 years and for mechanical failure of door closers for 5 years.

#### 4. PRODUCTS:

A. Furnish hardware in accordance with the hardware list or schedule and as indicated on the door schedule included in drawings. List is intended as a guide to indicate hardware functions. Provide all items needed for door function including fire-rating and labeling requirements for fire-rated doors.

- B. Provide rim push type panic devices as required by local codes.

D. Supplier will meet with Client to finalize keying requirements, for re-keying on C.O. Day and

- A. Refer to Drawings for hardware finish information.

- C. Conform to ANSI/BHMA A156 except as otherwise indicated.

obtain final instructions in writing.

- 4. FINISH:

A. Wood doors as shown on the drawings and in schedules for flush and stile and rail doors.

E. GLAZING:

1. GENERAL:

A. Glass and glazing work as shown on the drawings and schedules.

2. QUALITY ASSURANCE: A. Prime Glass: ASTM C1036.

B. Safety Glass: Comply with State Statutes, UBC Section 5406, UBC Standard 54-2 and ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials, with certifying label on each piece.

C. Heat-Treated Glass: ASTM C1048.

D. Insulating Glass: Seal standard ASTM E774, Class A. Provide units manufactured by SIGMA member and bearing IGCC certification numbers.

E. Glazing Standards: Comply with recommendations of Flat Glass Marketing Association "Glazing Manual" and "Sealant Manual".

F. Elastomeric Sealant Standard: Comply with ASTM C920 requirements for Type, Grade, Class and Uses.

PRODUCTS:

A. Clear float Glass: Type I, Class 1 (clear) Quality q3 (glazing select), 0.25" thick except as otherwise indicated.

B. Heat Treated Glass: provide prime clear glass which has been treated to strengthen glass in bending, Kind FT (fully tempered), horizontally heat treated with minimal waviness or distortion at bottom edge of glass and free of tong marks.

C. Insulating Glass Units: Provide preassembled units consisting of organically sealed panes of Low-E clear glass enclosing a hermetically sealed dehydrated air space to match existing as follows: Use two 0.25" thicknesses of glass as indicated or scheduled with 0.5" anodized aluminum spacer channel with welded or sealed corners as standard with the manufacturer and double sealed units with polyisobutylene primary sealant and polyurethane secondary sealant.

D. Patterned and One-way glass: Provide 0.25" glass of types indicated on drawings.

**DIVISION 9 - FINISHES** 

A. GYPSUM BOARD SYSTEMS: 1. GENERAL:

A. Gypsum board work as shown on the drawings and in schedules.

2. QUALITY ASSURANCE:

A. Comply with applicable requirements of ASTM C840 "Application and Finishing of Gypsum Board", except where more detailed or more stringent requirements are indicated including the recommendations of the manufacturer

#### 3. PRODUCTS:

- A. Wood support systems RE: rough Carpentry section.
- B. Metal support systems
- (1) General: to the extent not otherwise indicated, comply with ASTM C645 and C754, for metal system supporting gypsum wallboard work. (2) Ceilings: Ceiling Suspension Main Runners: 1.5" steel channels, 0.475 lb. per ft., cold rolled

Hanger Wire: ASTM A641, Class I zinc coating, soft tempered, 8 gauge. (3) Partitions: Studs: ASTM C645; 25 gauge (0.0179") x 3.625" deep, except as otherwise indicated. At door jambs and for tile backing use 20 gauge (0.0329") or heavier studs. Runners: Match studs; type recommended by stud manufacturer for floor and ceiling support of studs, and for vertical abutment of drywal

work at other work (4) Furring Members: ASTM C645; 25 gauge (0.0179"), hat shaped, 0.875" depth, except as noted. (5) Exposed Gypsum Board: ASTM C36, standard taper long edges, 0.625" thick except where otherwise indicated, Type X, 4 ft., width by maximum lengths to minimize end joints. (6) Gypsum Backing Boards: ASTM C442 backing board or ASTM C36 gypsum wallboard, 0.625" thick, square edge, Type X, except where otherwise indicated, 4 ft. width.

(7) Provide moisture resistant type gypsum board at all wet areas.

B. CARPET:

1. GENERAL:

A. Refer to Finish & Material schedules for suppliers.

2. PRODUCTS:

A. Carpet Edge Guard extruded or molded vinyl or rubber carpet edge guard and transition strips of size, profile and color as Selected by Architect from those available within the industry (any mfg.).

B. Adhesive for carpet - provide adhesive as recommended by the carpet manufacturer specifically formulated for intended use and which complies with flame spread rating required for the carpet installation.

#### 3. INSTALLATION:

A. Comply with manufacturer's instructions and recommendations. Place seams in the directions indicated, and as accepted on shop drawings, if any. Maintain direction of pattern and texture, including lay of pile. Do not seam weft to warp, except as directed.

- B. Check matching of carpet before cutting and ensure there is no visible variation between dve lots.
- C. Use on approved cementitious filler to patch cracks, small holes and for leveling. Grind or smooth offsets to eliminate wear points.

D. Lay carpet on floors with run of the pile in same direction of anticipated traffic. Lay carpet on stairs with the run of the pile in opposite direction of anticipated traffic to avoid peeking of backing nosinas

- E. At doors, center seams under doors: do not seam in traffic direction at doorways.
- F. Install carpet edge guard at every location where edge of carpet is exposed to traffic.
- G. Provide pad in installation.

E. PAINTING: 1. GENERAL:

> A. Painting work as shown on the drawings and schedules, and as follows: (1) Paintings and finishings of new exterior exposed items and surfaces, except as indicated

except as otherwise indicated (3) Painting of exposed bare and covered pipes and ducts, and of hangers, exposed steel and iron work, and primed metal surfaces of equipment installed under the mechanical and electrical work, except as otherwise indicated. Coordinate with Division 15 and 16 installers for

color coding, if any. (4) Painting of mechanical grilles, registers, louvers (except aluminum), and panel covers and frames for electrical work and systems.

B. Where items or surfaces are not specifically mentioned, paint these the same as adjacent similar materials or areas. If finish is not designated, the Architect will the materials or system.

noted otherwise.

2. SUBMITTALS:

A. On actual wall surfaces and interior building components, produce painted finishes of specified color samples. On at least 100 sq.ft. of surface as directed, provide full- coat finish samples

3. QUALITY ASSURANCE:

A. Where not otherwise specified, follow recommendations of "Architectural Specifications Manual" by Painting & Decorating Contractors of America.

B. Provide primers and other undercoat paint produced by same manufacturer as finish coats. Use only thinners approved by paint manufacturer, and use only within recommended

C. Perform preparation and cleaning procedures in strict accordance with the paint manufacturer's instructions for each particular substrate condition.

4. PRODUCTS:

A. Colors and Finishes: As indicated on Finish Schedule an das selected by Architect.

B. Provide manufacturer's recommended oil-base paint, stain or finish system at galvanized steel, shop primed metal, exterior wood, wood windows and doors,

trim, exposed metals, mechanical and electrical systems, and all interior wood. C. Provide manufacturer's recommended water-based paint or finish systems at interior avpsum board and interior and exterior plaster.

D. Stained trim and millwork shall receive one coat stain, one coat sanding sealer,

wool wipe and two coats clear glass varnish unless noted otherwise in finish schedule.

E. For interior applications use paints and coatings that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA method 24) and the following chemical restrictions:

1. Flat Paints & Coatings: VOC no more than 50 g/L. 2. Non-Flat Paints & Coatings: VOC not more than 150 g/L. 3. Anti-Corrosive Coatings: VOC not more than 250 g/L. 4. Varnishes & Sanding Sealers: VOC not more than 350 g/L. 5. Stains: VOC not more than 250 g/L. 6. Aromatic Compounds: Paints and coatings shall not contain more than 1.0 percent by weight total aromatic compounds (hydrocarbon compounds containing one or more benzene rings). 7. Restricted Components: Paints and coatings shall not contain any of the following:

a. Acrolein b. Acrylonitrile. ac. Antimony d. Benzene. e. Butyl benzyl phthalate. f. Cadmium. g. Di (2-ethylhexyl) phthalate. h. Di-n-butyl phthalate. i. Di-n-octyl phthalate. j. 1,2 - dichlorobenzene. k. Diethyl phthalate. I. Dimethyl phthalate. m. Ethylbenzene. n. Formaldehyde. o. Hexavalent chromium. p. Isophorone. q. Lead. r. Mercury

s. Methyl ethyl ketone.

t. Methyl isobutyl ketone. u. Methylene chloride.

v. Naphthalene.

w. Toluene (methylbenzene). x. 1.1.1 - trichloroethane.

y. Vinyl chloride

**DIVISION 10 - SPECIALTIES** A. TOILET ACCESSORIES

1. GENERAL:

A. Toilet and bath accessories, as shown on the drawings and schedules.

2. QUALITY ASSURANCE:

A. Conform to requirements of ASTM F446 for accessories for test methods, anchorage and functional performance.

3. PRODUCTS:

A. MATERIALS:

(1) Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 33 gage minimum, unless otherwise indicated

B. Provide toilet and bath accessories as manufactured by Bobrick or equal, as listed in Toilet Accessory Schedule and shown on drawings.

B. PORTABLE FIRE EXTINGUISHERS: 1. Conform to N.F.P.A. pamphlets #10, 10A and manufactured by: J.L. Industrial Morris Industries (FYRFYTER) or equal. Provide wall mounted extinguisher at each unit under kitchen sink. Submit shop drawings for approval.

**DIVISION 11 - EQUIPMENT** A. ELECTRICAL: 1. See Electrical Specifications. B. RELATED WORK DESCRIBED ELSEWHERE: Plumbing: (2) Painting and finishing of interior exposed items and surfaces throughout the project, 2. Electrical: **DIVISION 12 - FURNISHINGS** select Furnished by Owner **DIVISION 13 - SPECIAL CONSTRUCTION** C. Do not paint floors, walls or ceilings of rooms or spaces scheduled as unfinished, unless Not Applicable. **DIVISION 14 - CONVEYING SYSTEMS** A. ELEVATOR: 1. As indicated on drawings **DIVISION 15 - MECHANICAL** A. PLUMBING: 1. See Plumbing Specifications. 1. See Mechanical Specifications. DIVISION 16 - ELECTRICAL See Electrical Specifications

interior

steel

Work of Section"Plumbing" includes setting of faucets and connections to services, interconnections of equipment; floor drains in vicinity of indirect drain outlets; faucets and All line switches, safety cutout, control panels, fuse boxes and other controls. electrical receptacles, fittings and connections, except as otherwise specified in Section "Electrical". Electrical Contractor, Section "Electrical", will make final connection to the building from all junction boxes.

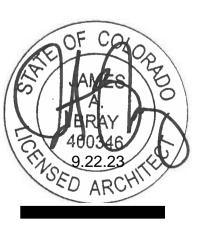
B. HEATING, VENTILATING, AIR CONDITIONING AND EXHAUST HOODS:



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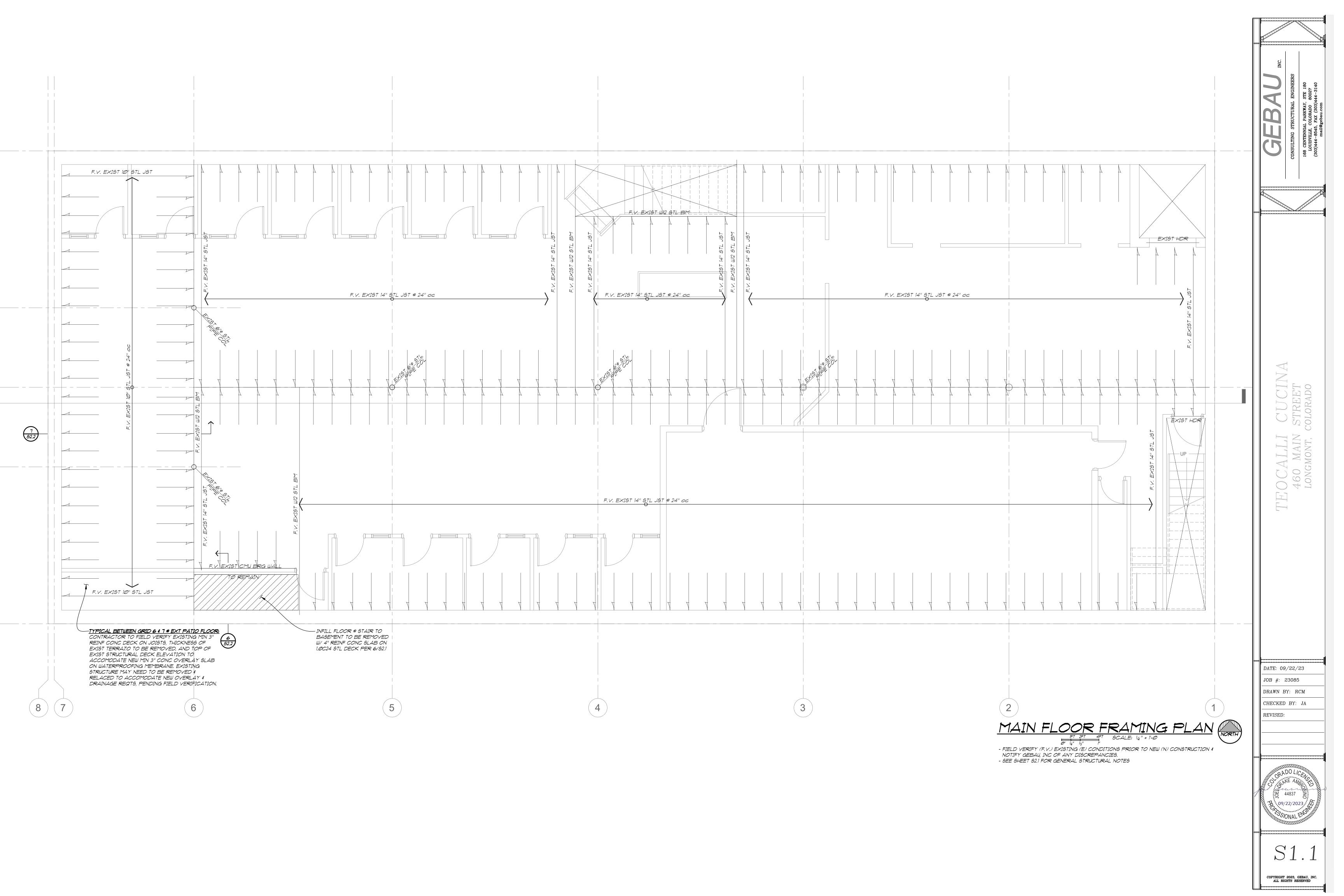


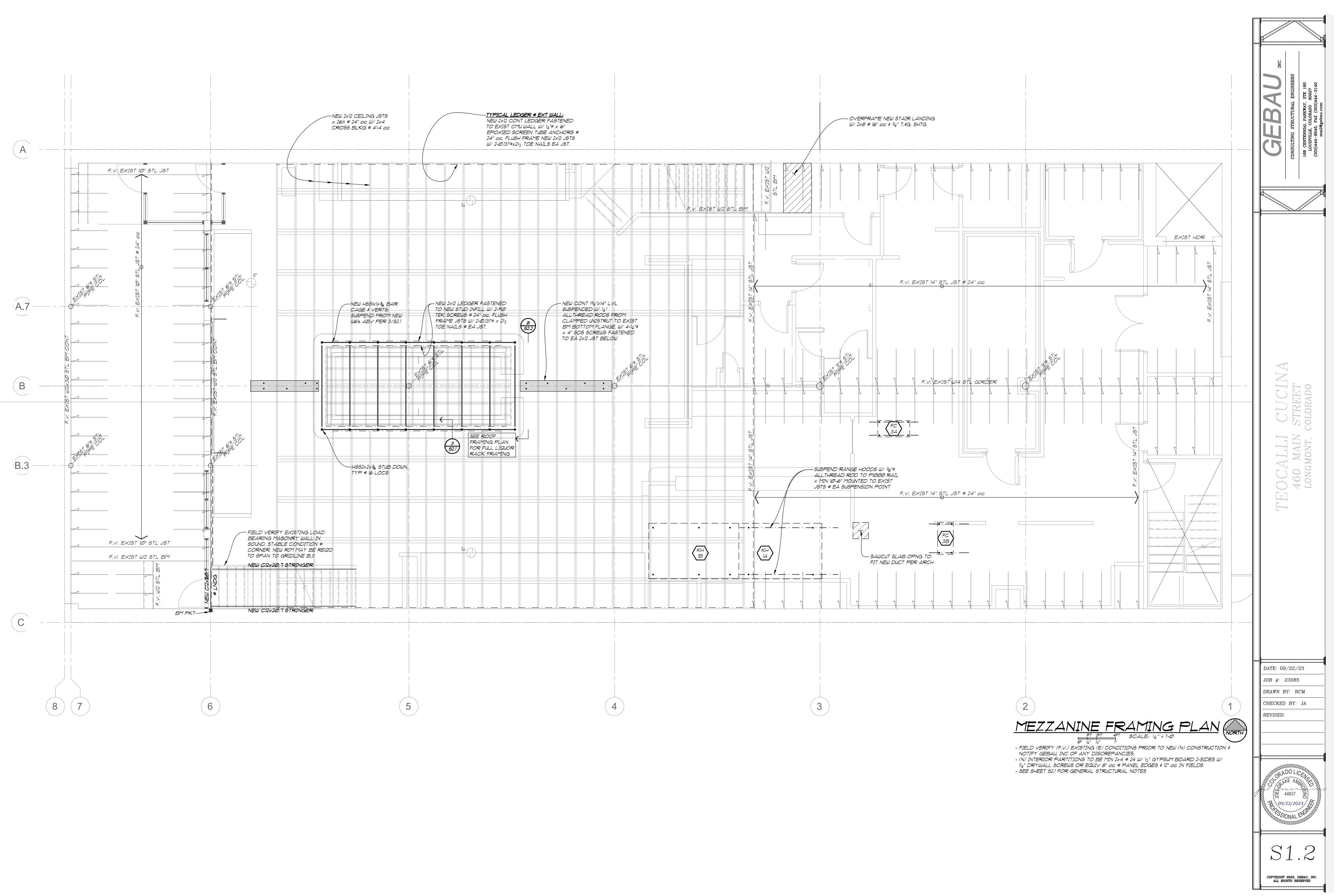
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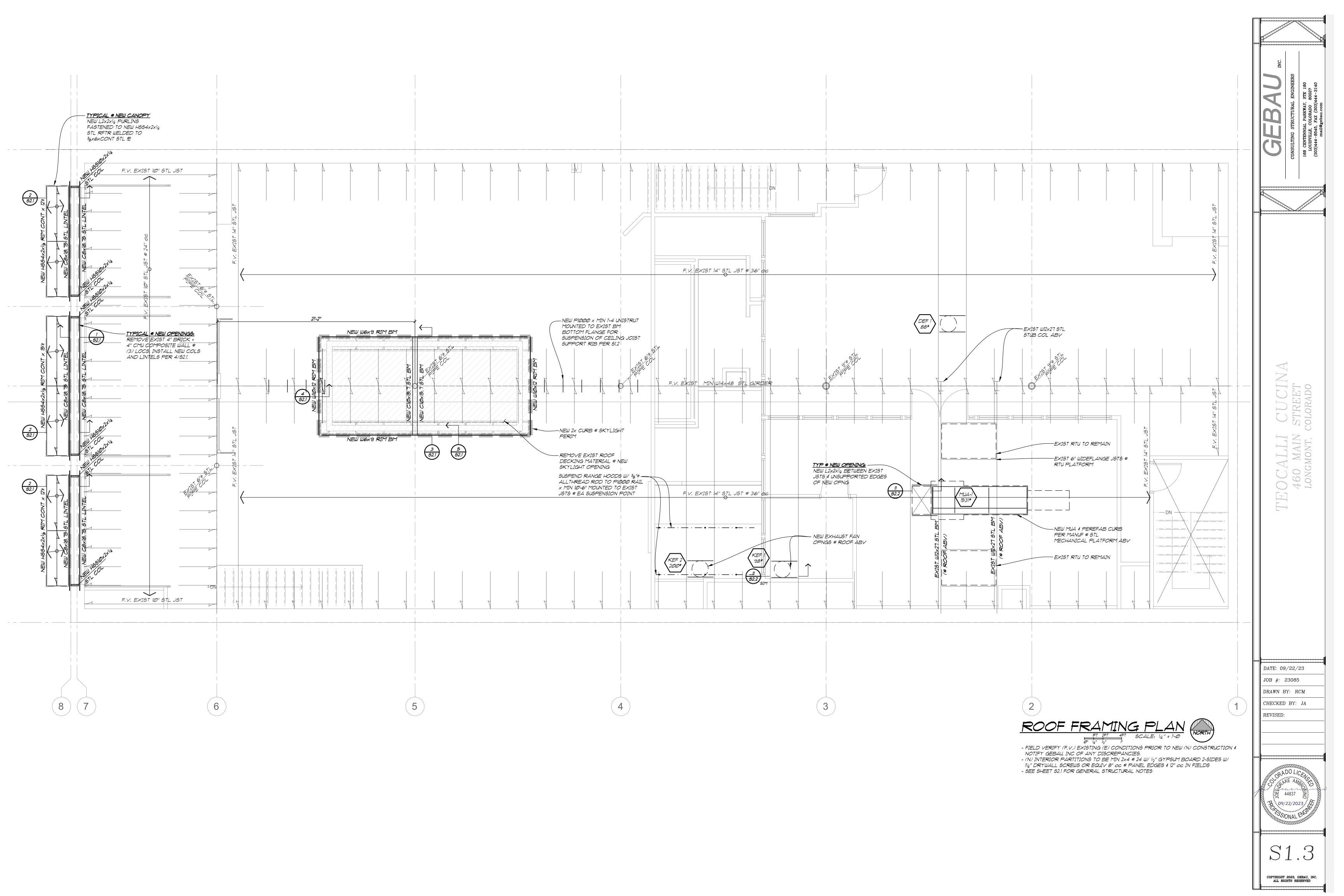
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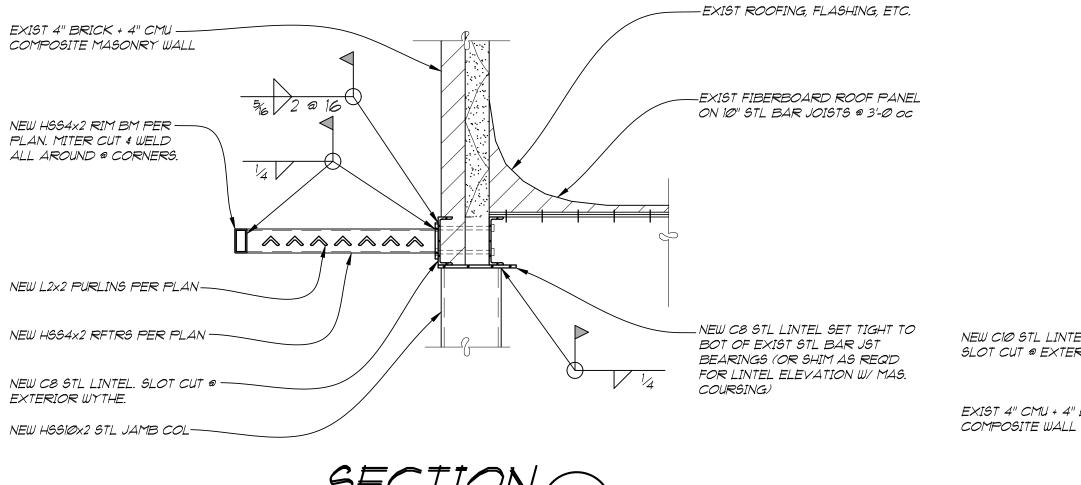
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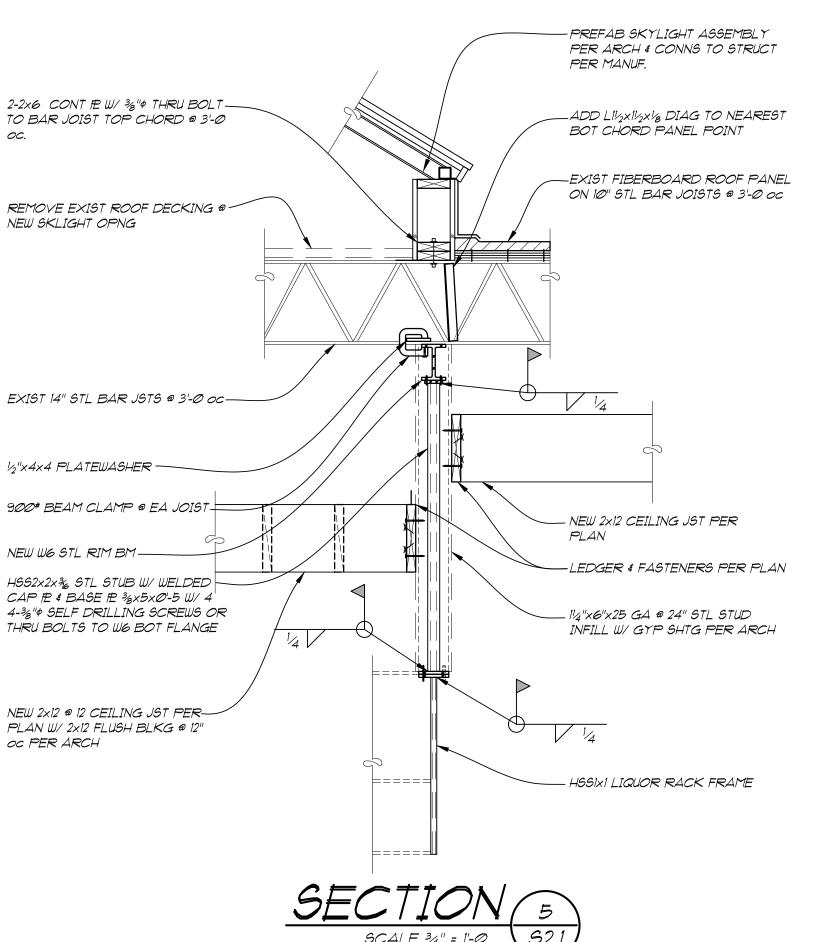


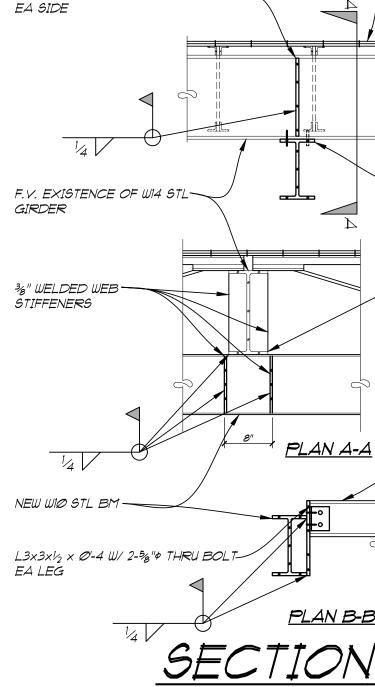






NEW CIØ STL LINTEL PER PLAN. SLOT CUT @ EXTERIOR WHYTHE EXIST 4" CMU + 4" BRICK -

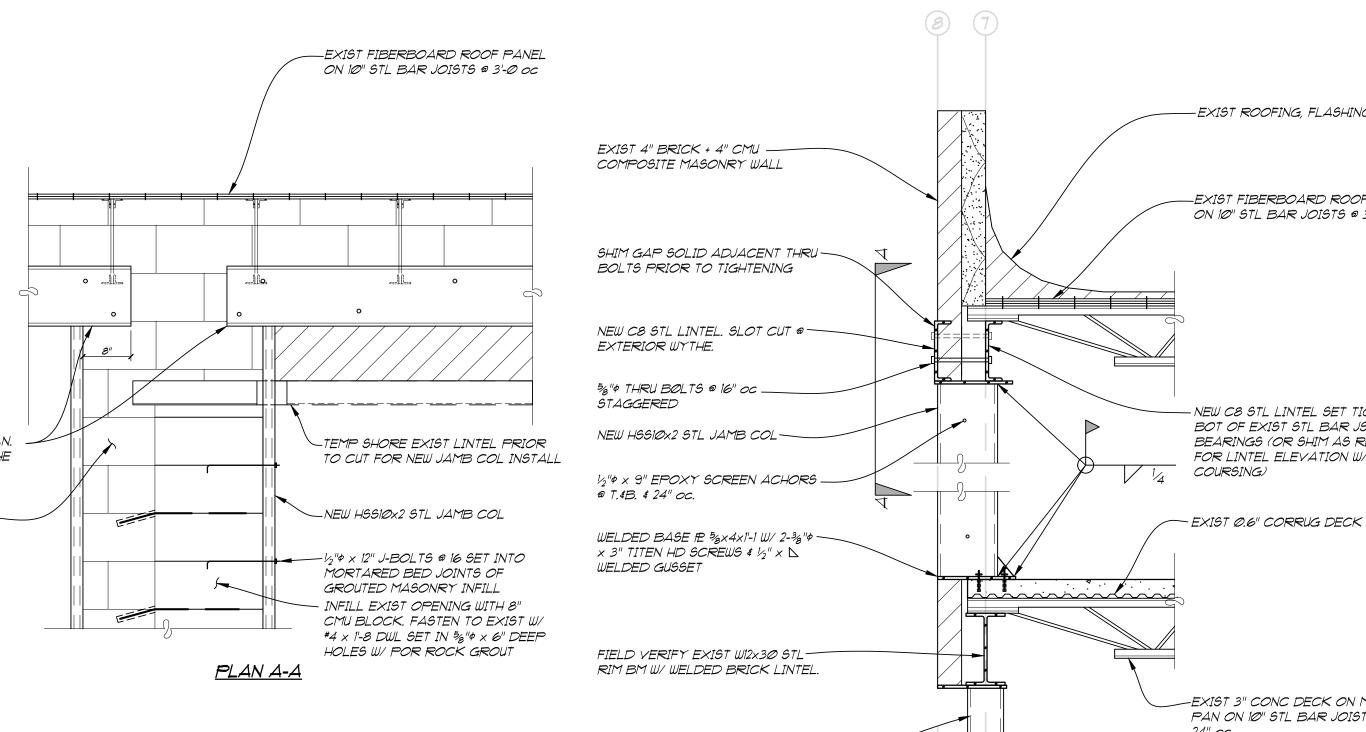




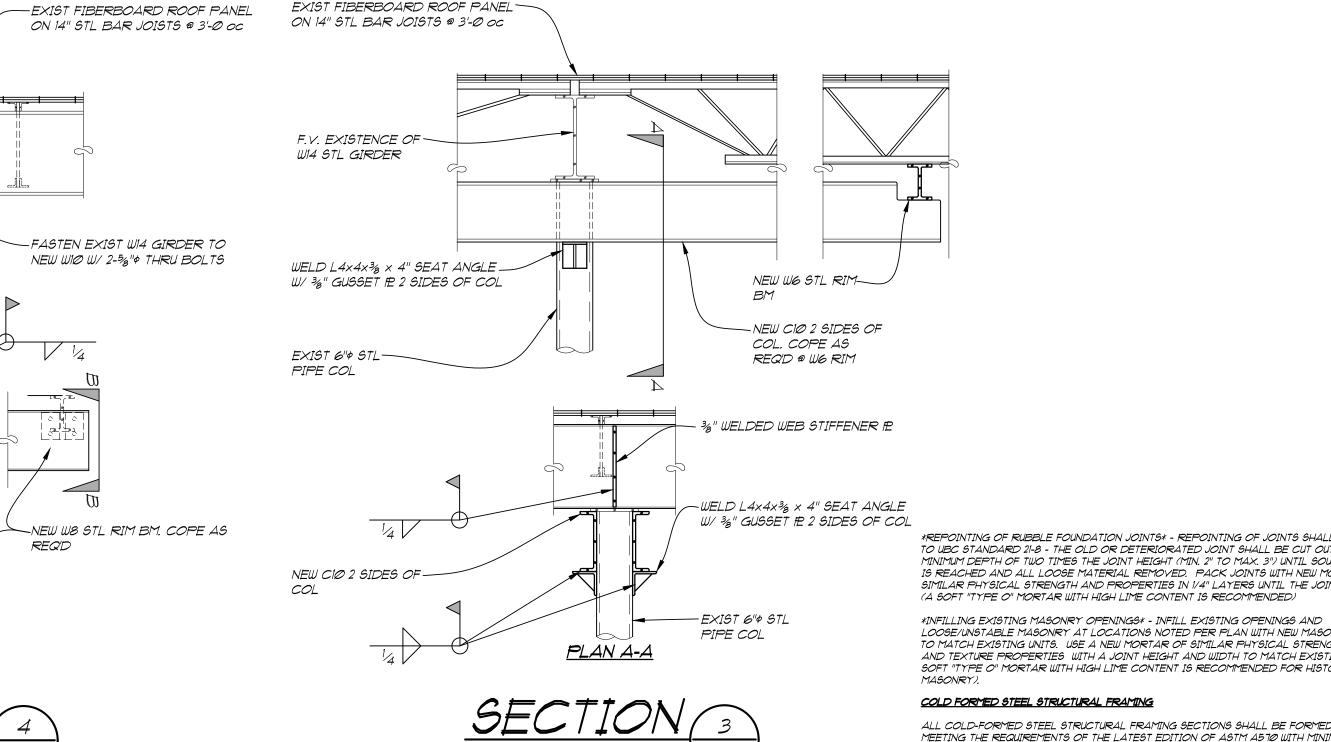
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6CALE ¾" = 1'-Ø

ADD 3/ WELDED WEB STIFFENER -



EXIST 6"# STL PIPE COL-



SCALE  $\frac{3}{4}$ " = 1'-Ø

\*REPOINTING OF RUBBLE FOUNDATION JOINTS\* - REPOINTING OF JOINTS SHALL CONFORM TO UBC STANDARD 21-8 - THE OLD OR DETERIORATED JOINT SHALL BE CUT OUT TO MINIMUM DEPTH OF TWO TIMES THE JOINT HEIGHT (MIN. 2" TO MAX. 3") UNTIL SOUND MORTAR IS REACHED AND ALL LOOGE MATERIAL REMOVED. PACK JOINTS WITH NEW MORTAR OF SIMILAR PHYSICAL STRENGTH AND PROPERTIES IN 1/4" LAYERS UNTIL THE JOINT IS FILLED (A SOFT "TYPE O" MORTAR WITH HIGH LIME CONTENT IS RECOMMENDED)

LOOSE/UNSTABLE MASONRY AT LOCATIONS NOTED PER PLAN WITH NEW MASONRY UNITS TO MATCH EXISTING UNITS. USE A NEW MORTAR OF SIMILAR PHYSICAL STRENGTH, COLOR, AND TEXTURE PROPERTIES WITH A JOINT HEIGHT AND WIDTH TO MATCH EXISTING. (A SOFT "TYPE O" MORTAR WITH HIGH LIME CONTENT IS RECOMMENDED FOR HISTORIC COLD FORMED STEEL STRUCTURAL FRAMING

ALL COLD-FORMED STEEL STRUCTURAL FRAMING SECTIONS SHALL BE FORMED OF STEEL MEETING THE REQUIREMENTS OF THE LATEST EDITION OF ASTM A510 WITH MINIMUM YIELD STRESSES AS FOLLOWS:

ALL COLD-FORMED STEEL STRUCTURAL FRAMING TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH IBC 2210 AND 2211 12, 14 \$ 16 GAUGE STEEL STUDS, JOISTS, AND TRACK:

FY = 5*0,000 PS*I 18 \$ 20 GAUGE STEEL STUDS, JOISTS, AND TRACK: FY = 33,000 PSI

12 \$ 14 GAUGE STEEL CLIPS

FY = 50,000 PSI PROVIDE ADDITIONAL STUDS AT CORNERS, INTERSECTIONS, DOOR JAMBS, ETC. PER MANUFACTURER'S SPECIFICATIONS AND AS REQUIRED BY DRAWINGS. SHOP DRAWINGS REQUIRED PRIOR TO FABRICATION OF ELEMENTS. FRAMING SECTIONS ARE PER SSMA (STEEL STUD MANUFACTURERS ASSOCIATION) SECTIONS SUPPLIED BY ALTERNATE MANUFACTURER'S SHALL BE EQUIVALENT.

AXIALLY LOADED MEMBERS SHALL BE INSTALLED WITH ENDS TIGHT TO TOP & BOTTOM TRACKS PRIOR TO FASTENING. PROVIDE WEAK-AXIS BRACING @ 48" OC VERTICALLY MAX FASTENING OF LOAD BEARING COMPONENTS SHALL BE WITH MIN 1-#10 TEK SCREW PER FLANGE OR WELDING (OR AS NOTED ON PLANS).

#### <u>GENERAL STRUCTURAL NOTES</u> JOB #23Ø85 PROJECT: 460 MAIN STREET DESIGN CRITERIA BUILDING CODE JURISDICTION CITY OF LONGMONT RISK CATEGORY DESIGN LOADS FLOOR: DEAD LOAD LIVE LOAD 40 PSF ROOF: DEAD LOAD GROUND SNOW LOAD,P. 30 PSF WIND: EXPOSURE CATEGORY B INSPECTIONS THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION FROM GEBAU, INC. OR BY AN INSPECTION AGENCY APPROVED BY GEBAU, INC. WITH A 48 HOUR ADVANCED NOTICE: GEOTECHNICAL ENGINEER OF RECORD SHALL PERFORM OPEN HOLE VERIFICATION OF SOIL CONDITIONS PRIOR TO CONSTRUCTION. FOOTINGS PRIOR TO CONCRETE POUR. FOUNDATION WALL FORMS, REINFORCING, ANCHOR, BOLTS, EMBEDDED HOLDOWNS, MOMENT FRAME EMBED PLATES, AND WELDED DOWELS PRIOR TO POUR. REINFORCED CONCRETE STRUCTURAL FLOOR SLAB FORMS, REINFORCEMENT, AND VOID. STRUCTURAL STEEL FRAMING ELEMENTS, BOLTING, FIELD WELDS, STEEL ROOF DECK, AND STEEL ROOF DECK CONNECTIONS. GENERAL WOOD FRAMING, CONNECTORS, AND FASTENING. CMU VERTICAL REINFORCING, BOND BEAM STEEL, AND EMBED LOCATIONS PRIOR TO GROUTING AT ALL LIFTS. CONCRETE AND REINFORCEMENT CONCRETE SHALL CONFORM TO APPLICABLE PROVISIONS OF LATEST REVISION OF ACI318 & ACI-301 MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS: ALL CONCRETE: 3000 PSI CEMENT TYPE: II IN CONCRETE EXPOSED TO SOIL, ALL OTHER TYPE I or I/II. WELDED WIRE FABRIC: ASTM 185 REINFORCEMENT FABRICATED AND PLACED PER ACI MAN. OF STAND. PRACTICE (ACI-3/5). SEE PLANS FOR OTHER REQUIREMENTS. CONCRETE MUST BE PLACED CONTINUOUSLY WITHOUT HORIZONTAL COLD JOINT. IF COLD JOINT IS DESIRED, APPROPRIATE VERTICAL REINFORCEMENT MUST BE PROVIDED. COLD WEATHER PLACEMENT SHALL CONFORM TO PRACTICE SET FORTH IN ACI MANUAL OF CONCRETE PRACTICE. ADHEGIVES: SIMPSON ACRYLIC TIE (A.T.), SIMPSON AT-XP, SIMPSON SET-XP, OR APPROVED EQUIVALENT, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL DETERMINE APPROPRIATE PRODUCT FOR CURING CONDITIONS (TEMPERATURE, MOISTURE). <u>STRUCTURAL STEEL</u> STRUCTURAL STEEL: W-SHAPES ASTM A992 Fy = 50 KSI, ALL OTHER A36 Fy = 36 KSI STANDARD PIPE COLUMNS: ASTM A53 GRADE B. HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500 GRADE B Fy = 46 KSI ALL ANGLES SHALL CONFORM TO ASTM A36. BOLTS: ASTM A301 FOR STEEL TO WOOD, ASTM A325 FOR STEEL TO STEEL ELECTRODE FILLER WELD MATERIAL: ETØXX MIN. (STICK WELDING) OR MINIMUM TØKSI ALL WELDERS SHALL HAVE EVIDENCE OF HAVING PASSED THE AWS STANDARD QUALIFICATION TEST. ALL EXPANSION ANCHORS TO BE KWIK BOLT 3, AS MANUFACTURED BY HILTI, OR

STRONGBOLT 2 AS MANUFACTURED BY SIMPSON OR EQUIVALENT TO BE REVIEWED AND APPROVED BY GEBAU PRIOR TO INSTALLATION. MASTIC COAT ALL STEEL BELOW GRADE.

ALL STRUCTURAL STEEL BEAMS SHALL BEAR MINIMUM OF 3½" IN BEAM POCKETS WITH STEEL SHIMS & NON-SHRINK GROUT AS REQUIRED OR AS NOTED. ALL BEAMS TO BE LATERALLY BRACED AT BEARING.

ALL STRUCTURAL STEEL FABRICATED AND ERECTED PER AISC STEEL CONSTRUCTION MANUAL.

#### WOOD FRAMING

WOOD DESIGN VALUES IN PSI OR AS NOTED.

LAMINATED VENEER LUMBER: (LVL) (13/4 " LAMINATIONS)  $F_b=2600, F_{c-Perp}=150, F_V=285, E=1,900,000$ 

FRAMING LUMBER:- MAXIMUM MOISTURE CONTENT: 19%

WALL PLATE MTRL-	HEM FIR NO. 2 F <sub>b</sub> =850, F <sub>c-Perp</sub> =405, Fv=150, E=1,300,000
JOISTS & RAFTERS	DOUGLAS FIR NO.2 F <sub>b</sub> =9 <i>00</i> , F <sub>c-Perp</sub> =625, Fv=180, E=1,600,000

CONTRACTOR TO CONTACT GEBAU, INC. IF ANY OF SUPPLIED WOOD MEMBERS DIFFER FROM THE MATERIAL SPECIFICATIONS ABOVE, PRIOR TO CONSTRUCTION NAILING PER INTERNATIONAL BUILDING CODE TABLE 2304.10.1 EXCEPT WHERE MORE OR

LARGER NAILING SHOWN ON DRAWINGS. CROSS BRIDGE ALL ROOF AND FLOOR JOISTS AT MIDSPAN WHERE BOTTOM DOES NOT RECEIVE DRYWALL OR OTHER SHEATHING. AS PER MANUFACTURER'S RECOMMENDATIONS.

<u>GENERAL</u> CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO EXECUTING CORRESPONDING MODIFICATIONS AND SHALL NOTIFY GEBAU, INC. IMMEDIATELY UPON DISCOVERY OF CONDITIONS DIFFERING FROM THOSE SHOWN.

THESE PLANG HAVE BEEN ENGINEERED FOR CONSTRUCTION AT ONE SPECIFIC BUILDING SITE. BUILDER ASSUMES ALL RESPONSIBILITY FOR USE OF THESE PLANS AT ANY OTHER BUILDING SITE.

#### MASONRY AND REINFORCEMENT

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90-N-1  $f_{M}$ '= 2000. CLAY OR SHALE BRICK MASONRY UNITS SHALL CONFORM TO ASTM C216-MW-FBS

MORTAR SHALL CONFORM TO ASTM C270, TYPE S.

GROUT SHALL CONFORM TO ASTM 476, 2500 PSI, 28 DAY STRENGTH.

MASONRY WALLS, PIERS, ETC SHALL BE GROUTED IN LIFTS NOT EXCEEDING 6'-Ø. LAY MASONRY IN RUNNING BOND U.N.O.

CLEAN CELLS AND ROD GROUT INTO PLACE. PROVIDE CLEANOUTS AT BASE OF WALL. TO MINIMIZE LEACHING, PROTECT ALL MASONRY WORK FROM MOISTURE INTRUSION DURING CONSTRUCTION.

GROUT REINFORCED CELLS, BOND BEAMS AND ALL CELLS BELOW GRADE. MASONRY REINFORCEMENT: ASTM A615 GRADE 60.

ALL MASONRY WALLS TO BE HORIZONTALLY REINFORCED WITH STANDARD DUR-O-WALL AT 16" oc.

TYPICAL MINIMUM MAGONRY VERTICAL REINFORCEMENT: \*4 AT 32 OC, UNLESS OTHERWIGE NOTED OR DETAILED ON DRAWING MINIMUM LAP 24".

PROVIDE #5 AT SIDES OF ALL OPENINGS, CORNERS, CONTROL JOINTS AND WALL ENDS. TYPICAL BOND BEAM REINFORCEMENT: 2-#4 CONTINUOUS GROUT SOLID.

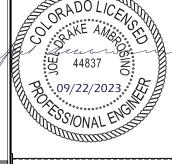
REINFORCEMENT FABRICATED AND PLACED PER ACI MANUAL OF STANDARD PRACTICE (ACI-315).

COLD WEATHER PLACEMENT SHALL CONFORM TO PRACTICE SET FORTH IN GUIDE SPECIFICATIONS FROM INTERNATIONAL MASONRY ALL WEATHER COUNCIL AVAILABLE THROUGH PCA \*LTIØTA9.

SEE CONCRETE SECTION FOR MASONRY REINFORCEMENT NOTES.

\*REPOINTING OF CLAY MASONRY JOINTS\* - REPOINTING OF JOINTS SHALL CONFORM TO UBC STANDARD 21-8 - THE OLD OR DETERIORATED JOINT SHALL BE CUT OUT TO MINIMUM DEPTH OF TWO TIMES THE JOINT HEIGHT (MIN. 1/2" TO MAX. 1") UNTIL SOUND MORTAR IS REACHED AND ALL LOOSE MATERIAL REMOVED. PACK JOINTS WITH NEW MORTAR OF SIMILAR PHYSICAL STRENGTH, COLOR, AND TEXTURE PROPERTIES IN 1/4" LAYERS UNTIL THE JOINT IS FILLED (A SOFT "TYPE O" MORTAR WITH HIGH LIME CONTENT IS RECOMMENDED FOR HISTORIC MASONRY).

<b>GEBAU</b>	CONSULTING STRUCTURAL ENGINEERS	168 CENTENNIAL PARKWAY, STE 180 LOUISVILLE, COLORADO 80027 (303)444-8545, FAX (303)444-3140 mail@gebau.com
	I L'UCALLI UUUINA 460 main streft	LONGMONT, COLORADO
JOB #: DRAWN	09/22/3 23085 BY: R( ED BY:	CM
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-EXIST ROOFING, FLASHING, ETC.

-EXIST FIBERBOARD ROOF PANEL

ON 10" STL BAR JOISTS @ 3'-0 oc

- NEW C8 STL LINTEL SET TIGHT TO

BOT OF EXIST STL BAR JST

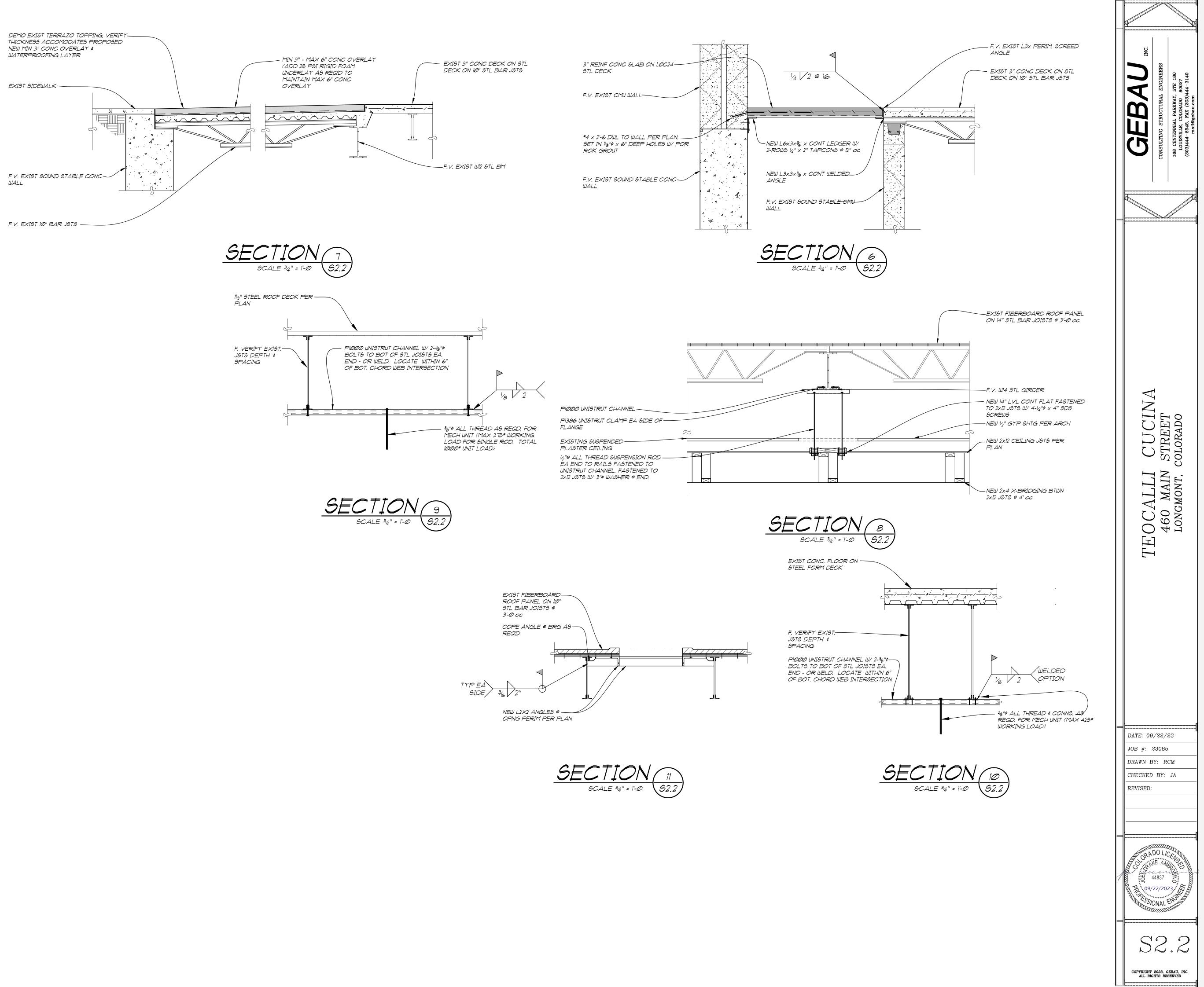
BEARINGS (OR SHIM AS REQ'D

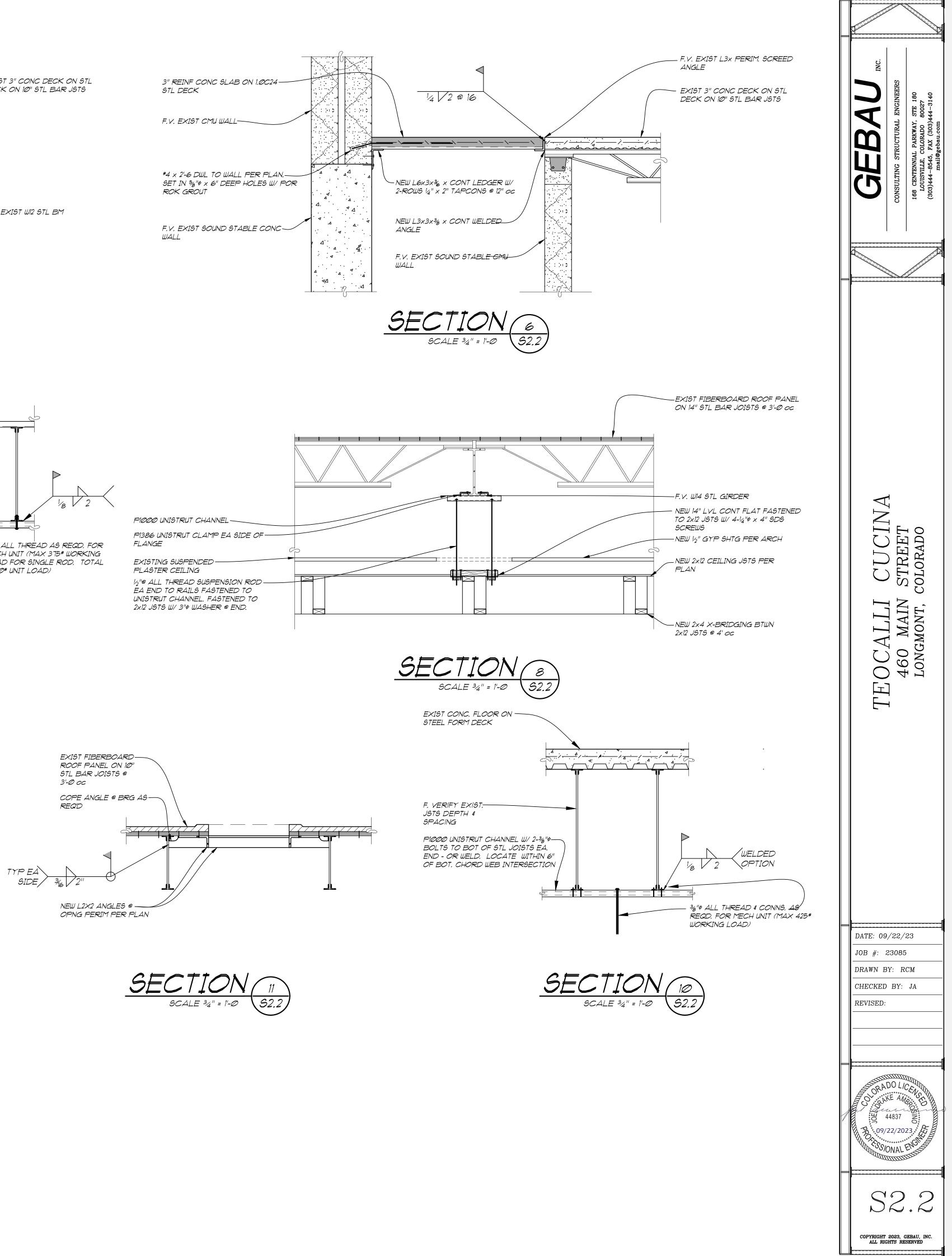
FOR LINTEL ELEVATION W/ MAS.

-EXIST 3" CONC DECK ON METAL PAN ON 10" STL BAR JOISTS @

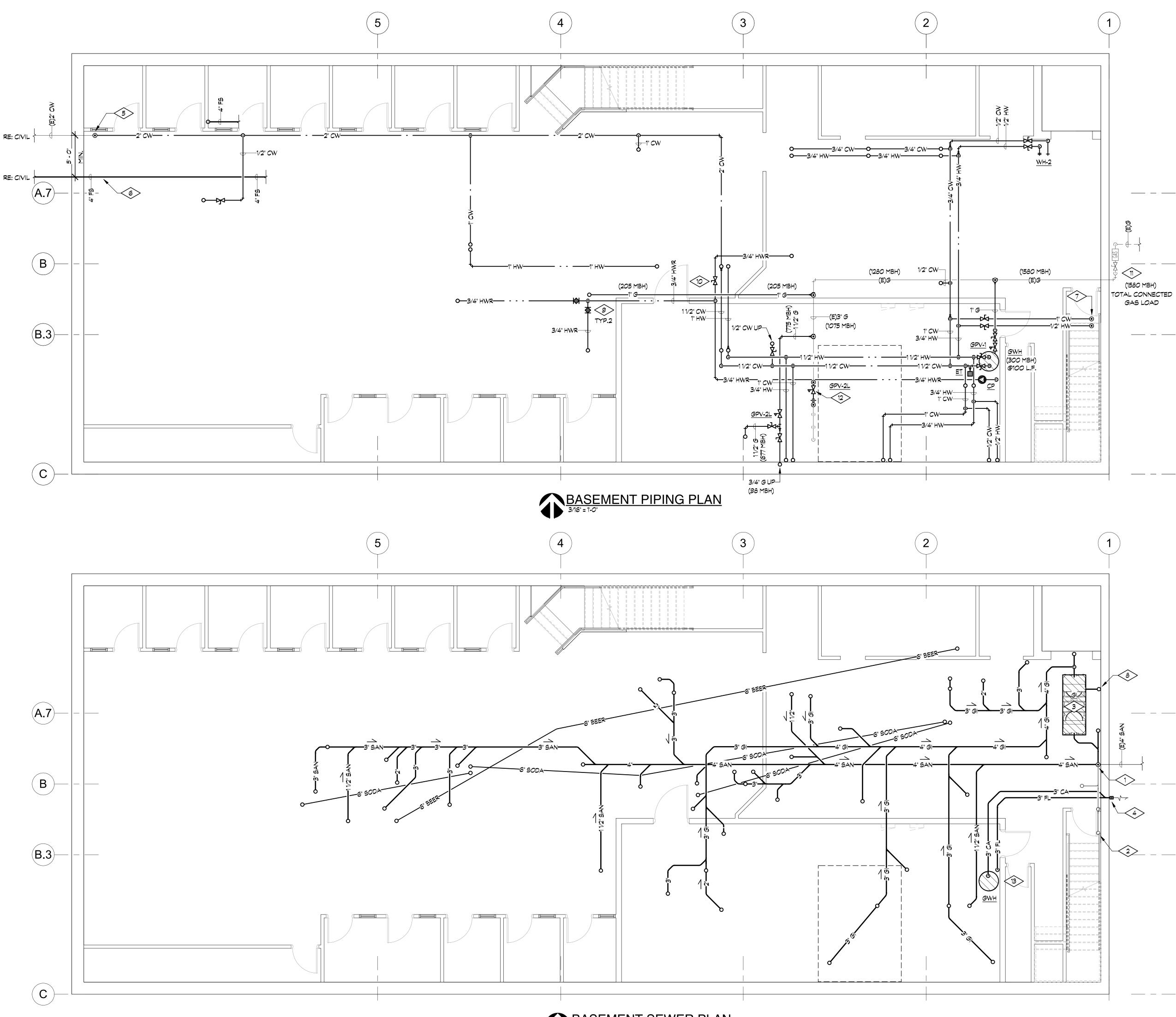
24" ос.

### 2018 INTERNATIONAL BUILDING CODE









## BASEMENT SEWER PLAN 3/16" = 1'-0"

## **GENERAL NOTES**

- A. PLUMBING CONTRACTOR TO COORDINATE SCOPING OF THE EXISTING SANITARY LINES PRIOR TO STARTING WORK. NOTIFY BUILDING OWNER OF ANY DEFICIENCIES OR REPAIRS REQUIRED.
- 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 THEIR WORK, COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
- F. PLUMBING CONTRACTOR TO COORDINATE ROUGH-IN DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- G. PLUMBING CONTRACTOR TO COORDINATE INSTALLATION HEIGHTS WITH KITCHEN PLANS PRIOR TO ROUGH-IN. MAKE CONNECTION TO EQUIPMENT AS PER KITCHEN SCHEDULE ON P4.1.
- H. WATER, SEWER, GAS AND ELECTRICAL CONDUITS MUST FIT WITHIN WALLS. CONFLICTS WITH OTHER TRADES MUST BE COORDINATED OR WORK WILL BE REDONE.
- COORDINATE ALL ACCESS PANEL LOCATIONS FOR VALVES, SHOCK ARRESTORS, AIR ADMITTANCE VALVES AND ALL OTHER PLUMBING COMPONENTS INVOLVING ACCESS WITH ARCHITECT.
- J. NOT ALL ISOLATION VALVES SHOWN ON PLANS. PROVIDE ISOLATION VALVES ON ALL DOMESTIC WATER BRANCH PIPING. COORDINATE ANY AND ALL ACCESS PANELS WITH ARCHITECT.
- K. 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.
- L. EXPOSED SEWER PIPING (TRAPS & INDIRECT DRAINS) MUST BE COPPER, EXCEPT FOR SODA MACHINES (PVC OK). RE: PROJECT SPECS.

## DETAIL NOTES THIS SHEET

- 1. EXTEND AND CONNECT NEW SANITARY WASTE TO EXISTING SANITARY WASTE IN APPROXIMATE LOCATION SHOWN. FIELD VERIFY EXACT LOCATION, PIPE ROUTING AND INVERT ELEVATION AT POINT OF CONNECTION.
- 2. EXISTING RESTROOM WASTE PIPING TO REMAIN, NO NEW WORK.
- 3. PROVIDE NEW GREASE INTERCEPTOR IN LOCATION SHOWN. PROVIDE WITH BASE TO KEEP OUTLET PIPING AS HIGH AS POSSIBLE FOR CONNECTION TO EXISTING SANITARY SEWER. COORDINATE PLATFORM DIMENSIONS AND CONSTRUCTION WITH G.C. MAINTAIN VERTICAL CLEARANCE (MINIMUM 16") FOR REMOVAL OF LID(S). PROVIDE RISER KIT(S) IF REQUIRED TO MAKE COVER FLUSH WITH FIRST FLOOR (IF REQUIRED).
- 4. ROUTE NEW FLUE AND COMBUSTION AIR FOR GAS FIRED WATER HEATER THRU BUILDING EXTERIOR, TERMINATE IN CONCENTRIC VENT PER MANUFACTURER'S INSTRUCTIONS.
- 5. EXTEND AND CONNECT DOMESTIC COLD WATER TO EXISTING COLD WATER TAP/METER IN APPROXIMATE LOCATION SHOWN. FIELD VERIFY EXACT LOCATION AND PIPE ROUTING AT POINT OF CONNECTION.
- 6. EXTEND AND CONNECT NEW FIRE PROTECTION PIPING TO CIVIL POC (APPROX. 5 FT OUTSIDE BUILDING). FIELD VERIFY EXACT LOCATION AND CONNECTION. COORDINATE FIRE RISER ROOM LOCATION WITH G.C. COORDINATE FDC LOCATION WITH AHJ. SPRINKLER DESIGN TO BE PERFORMED BY NFPA CERTIFIED DESIGNER, SHOP DRAWINGS BY DEFERRED SUBMITTAL.
- 7. RECONNECT NEW CW/HW TO EXISTING PIPING SERVING RESTROOM TO REMAIN, FIELD VERIFY EXACT LOCATION, SIZE AND PIPE ROUTING AT POINT OF CONNECTION.
- 8. ROUTE 3" PIPING FROM GREASE INTERCEPTOR REMOTE PUMP OUT KIT TO BUILDING EXTERIOR. COORDINATE EXTERIOR PENETRATION WITH G.C.
- 9. PROVIDE THERMOSTATIC BALANCING VALVE (CIRCUIT SOLVER CS-3/4-120) ON HOT WATER RECIRCULATION PIPING IN APPROXIMATE LOCATION SHOWN.
- 10. PROVIDE BALANCING VALVE SET TO 0.5 GPM ON HOT WATER RECIRCULATION PIPING IN APPROXIMATE LOCATION SHOWN.
- 11. EXISTING GAS SERVICE AND METER TO REMAIN. COORDINATE INCREASE IN GAS PRESSURE TO 14" W.C. WITH LOCAL UTILITY PROVIDER FOR TOTAL CONNECTED GAS LOAD INDICATED .. EXISTING GAS PIPING INTO BUILDING TO REMAIN.
- 12. PROVIDE NEW LINE PRESSURE GAS REGULATOR (MAXITROL 325-7AL) AT EXISTING MECHANICAL EQUIPMENT PIPING TO ACCOMMODATE INCREASE IN GAS PRESSURE. PROVIDE WITH VENT LIMITER (12A49).
- 13. ROUTE CONDENSATE/ T\$P RELIEF FROM WATER HEATER TO EXISTING SUMP IN MECHANICAL ROOM. FIELD COORDINATE EXACT LOCATION AND PIPE ROUTING.



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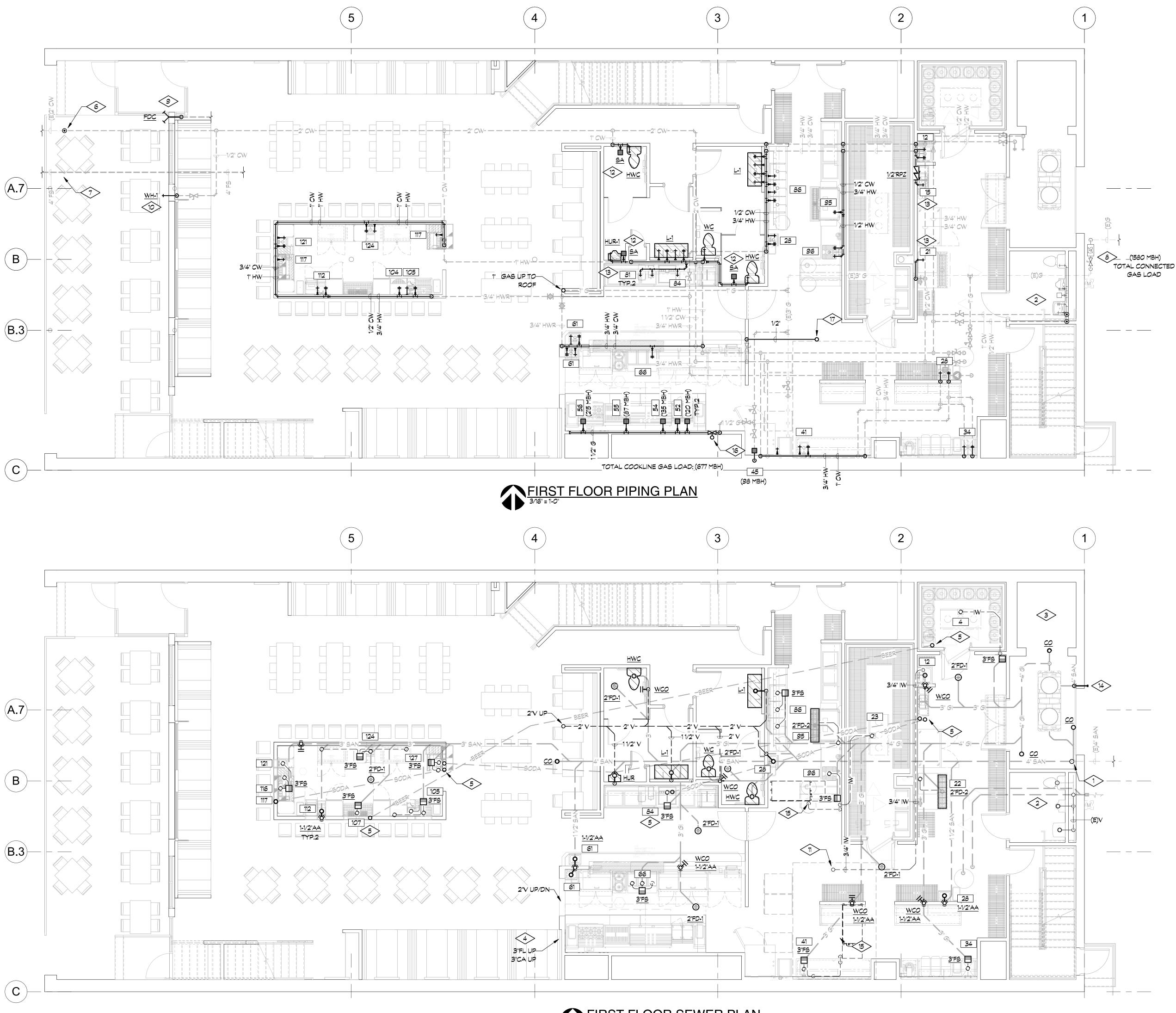
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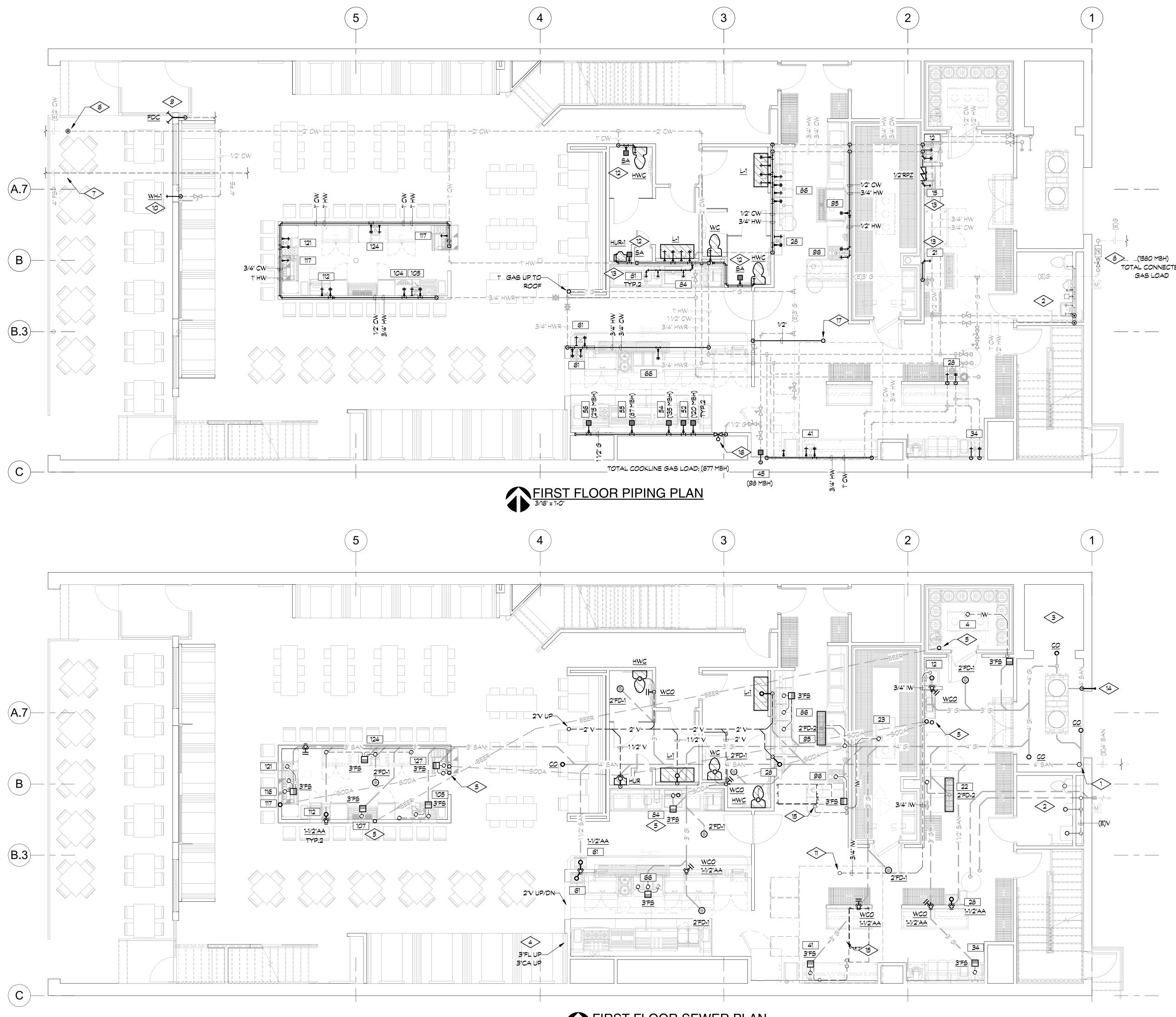
PROJECT No:	
	23086
ISSUE DATE:	
	09.21.2023
REVISIONS:	

## SHEET TITLE:

BASEMENT PLUMBING PLANS

**P1.0** 







## DETAIL NOTES THIS SHEET

- 1. EXTEND AND CONNECT NEW SANITARY WASTE TO EXISTING SANITARY WASTE IN APPROXIMATE LOCATION SHOWN. FIELD VERIFY EXACT LOCATION, PIPE ROUTING AND INVERT ELEVATION AT POINT OF CONNECTION.
- 2. EXISTING RESTROOM TO REMAIN, NO NEW WORK.
- 3. PROVIDE NEW GREASE INTERCEPTOR IN LOCATION SHOWN. PROVIDE WITH BASE TO KEEP OUTLET PIPING AS HIGH AS POSSIBLE FOR CONNECTION TO EXISTING SANITARY SEWER. COORDINATE PLATFORM DIMENSIONS AND CONSTRUCTION WITH G.C. CLEANOUT TO BE FLUSH WITH 1ST FLOOR.
- 4. ROUTE NEW FLUE AND COMBUSTION AIR FOR GAS FIRED WATER HEATER UP IN WALL AND THRU ROOF. RE: P1.1 FOR CONTINUATION.
- 5. PROVIDE 6" PVC CONDUIT WITH LONG SWEEP ELBOWS FOR SODA / BEER LINES. FIELD COORDINATE EXACT LOCATION AND ROUTING. SANITARY/GREASE WASTE PIPING TO TAKE PRECEDENCE.
- 6. EXTEND AND CONNECT DOMESTIC COLD WATER TO EXISTING COLD WATER TAP/METER IN APPROXIMATE LOCATION SHOWN. FIELD VERIFY EXACT LOCATION AND PIPE ROUTING AT POINT OF CONNECTION.
- 7. EXTEND AND CONNECT NEW FIRE PROTECTION PIPING TO CIVIL POC (APPROX. 5 FT OUTSIDE BUILDING). FIELD VERIFY EXACT LOCATION AND CONNECTION. COORDINATE FIRE RISER ROOM LOCATION WITH G.C. COORDINATE FDC LOCATION WITH AHJ. SPRINKLER DESIGN TO BE PERFORMED BY NFPA CERTIFIED DESIGNER, SHOP DRAWINGS BY DEFERRED SUBMITTAL.
- 8. EXISTING GAS SERVICE AND METER TO REMAIN. COORDINATE INCREASE IN GAS PRESSURE TO 14" W.C. WITH LOCAL UTILITY PROVIDER FOR TOTAL CONNECTED GAS LOAD INDICATED .. EXISTING GAS PIPING INTO BUILDING TO REMAIN.
- 9. PRELIMINARY FDC LOCATION, COORDINATE FINAL LOCATION WITH AHJ AND FIRE SPRINKLER DESIGN. COORDINATE HORN/STROBE LOCATION WITH FIRE ALARM CONTRACTOR.
- 10. PRELIMINARY WALL HYDRANT LOCATION, COORDINATE FINAL LOCATION WITH TENANT. COORDINATE MOUNTING ELEVATION WITH G.C. AND ARCHITECT.
- 11. ROUTE DRAIN FROM MAKE-UP AIR UNIT TO SERVICE SINK, PROVIDE MINIMUM 1" AIR GAP AT SERVICE SINK.
- 12. PROVIDE SHOCK ARRESTOR ON WATER SUPPLY FOR FLUSH VALVE/URINALS, COORDINATE ACCESS PANEL WITH G.C. AND ARCHITECT.
- 13. MAKE CONNECTION TO FIXTURE THRU WATER FILTER (OWNER PROVIDED, P.C. INSTALLED).
- 14. ROUTE 3" PIPING FROM GREASE INTERCEPTOR REMOTE PUMP OUT KIT TO BUILDING EXTERIOR. COORDINATE EXTERIOR PENETRATION WITH G.C.
- 15. ROUTE INDIRECT WASTE FROM HVAC EQUIPMENT TO HUB DRAIN AT RESTROOM LAVATORY WASTE STANDPIPE. COORDINATE CONNECTION REQUIREMENTS AND SCOPE OF WORK WITH M.C.
- 16. 1-1/2" GAS COCK AND MECHANICAL GAS VALVE (BY KEC ) IN WALL WITH LABELED ACCESS PANEL. 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.
- 17. 1/2" COLD WATER, 3/4" DRAIN UP TO KITCHEN MAKE-UP AIR UNIT ABOVE IN APPROXIMATE LOCATION SHOWN. FIELD VERIFY EXACT LOCATION AND EQUIPMENT CONNECTION REQUIREMENTS. COORDINATE WORK WITH M.C.



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PROJECT No:	
	2308
SSUE DATE:	
	09.21.202
REVISIONS:	

SHEET TITLE: FIRST FLOOR PLUMBING

PLANS



	LEGEND
	STORM - ABOVE FLOOR
	STORM - BELOW FLOOR
	SANITARY - ABOVE FLOOR
	SANITARY - BELOW FLOOR
—G ——	SANITARY TO GREASE
	CIRCUIT VENT
-CW\$V	COMBINATION WASTE AND VENT
	WET VENT
	SANITARY VENT
	DOMESTIC COLD WATER
<b>_</b> ·· <b>_</b>	DOMESTIC HOT WATER
· · · · —	DOM. HOT WATER, RECIRCULATING
G	GAS
— FS ——	FIRE SPRINKLER
-HWS	HOT WATER SUPPLY
-HWR	HOT WATER RETURN
-cws—	CHILLED WATER SUPPLY
- CWR-	CHILLED WATER RETURN
—c—	CONDENSATE
—s—	STEAM
0	PLUMBING POINT OF CONNECTION
•───	RISER UP
G+	RISER DOWN
<b>_∕∕</b>	BALL VALVE
—⋈—	BUTTERFLY VALVE
<b>—K</b> —	GATE VALVE
—k/—	GAS COCK (GAS ONLY)
—¢}—	BALANCING COCK
<b>→</b> / <b>⊢</b>	CIRCUIT SETTER
— <b>7</b> —	CHECK VALVE
_&	PRESSURE REDUCING VALVE
<b>#</b>	HOSE BIBB/SILL COCK
8	FLOOR DRAIN
	FLOOR SINK
0	ROOF DRAIN
_	UNION
	FLEXIBLE CONNECTOR
	THERMOMETER
0	PRESSURE GAUGE
	STRAINER
<u> </u>	FIRE DEPARTMENT CONNECTION
$\bigcirc$	WATER METER
GAS	GAS METER
$\bigcirc$	MECHANICAL EQUIPMENT
$\diamond$	DETAIL NOTE
	KITCHEN / MEDICAL EQUIPMENT
— A —	COMPRESSED AIR
-VAC	VACUUM
<b>—</b> 02 <b>—</b>	OXYGEN
	NITROUS OXIDE
(E) (EP)	EXISTING TO REMAIN EXISTING TO BE REPLACED

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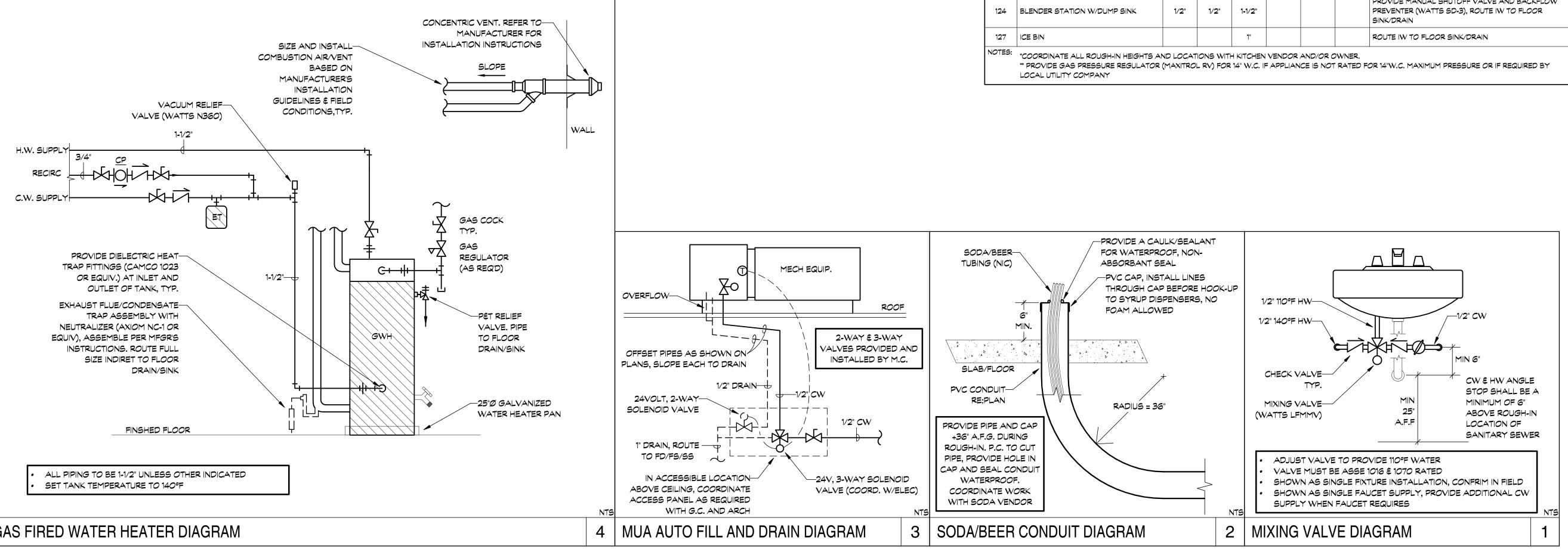
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EXISTING TO BE REPLACED

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EXISTING TO BE DEMOLISHED



## GAS FIRED WATER HEATER DIAGRAM

	PIUMF	BING FIXTURE SCHEDULE			KITCHE	EN EC	UIP	ЛЕNT	PLU	MB	ING S	SCHEDULE
KEY			MANUFACTURER / CATALOG #	KEY	DESCRIPTION			WAST			_	COMMENTS
		ELECTRONIC INFRARED SENSOR FLUSH VALVE.	TOTO CT 705ELN, SC534			CW	HW	IW	DW :	SIZE	MBH	
	· · · · · · · · · · · · · · · · · · ·	HYDRO-SELF-POWERED W/ BATTERY BACKUP, NICKEL	(NO-LID);SC134 (LID)		WALK-IN COOLER, BEER			1"				ROUTE IW TO FLOOR SINK/DRAIN
		CHROME PLATED, 1.28 GPF, 1" SUPPLY ANGLE STOP, OPEN	TETILN32#CP	12	MOP SINK	1/2"	1/2"	_	3"			CHECK VALVE ON MOP FAUCET HOT WATER
		FRONT WHITE PLASTIC SEAT W/LID (SC134)		15	BIB SODA RACK	1/2"						PROVIDE MANUAL SHUTOFF VALVE & BACKFLOW
wc	WATER CLOSET, FLOOR MNTD, SIPHON JET,	ELECTRONIC INFRARED SENSOR FLUSH VALVE,	TOTO CT 705EN, SC534			(FLTRD)						PREVENTER (WATTS LF009-SS) OR EQUIVALENT
		HYDRO-SELF-POWERED W/ BATTERY BACKUP, NICKEL	(NO-LID);SC134 (LID)									PROVIDE MANUAL SHUT-OFF VALVE AND BACKFLOW
		CHROME PLATED, 1.28 GPF, 1" SUPPLY ANGLE STOP, OPEN	TET1LN32#CP		ICE MACHINE	1/2"						PREVENTER (WATTS SD-3) ON CW MAIN, ROUTE CW
		FRONT WHITE PLASTIC SEAT W/LID (SC134)		21		(FLTRD)						SUPPLY THRU WATER FILTER (PROVIDED BY OWNER,
HUR-1		ELECTRONIC INFRARED SENSOR FLUSH VALVE (EXPOSED),									 	INSTALLED BY P.C.)
		HYDRO-POWER W/ BATTERY BACKUP NICKEL CHROME	TOTO TEU1UA12#CP		ICE BIN			2"				ROUTE IW TO FLOOR SINK/DRAIN
		PLATED, 0.125 GPF, 3/4" SUPPLY, PLATE TYPE SYSTEM MOUNTING W/BEARING PLATE	ZURN Z1222	23	WALK-IN COOLER			1"				ROUTE IW TO FLOOR SINK/DRAIN
L-1	COUNTERTOP LAVATORY, OVAL, VITREOUS		TOTO LT501	28	HAND SINK	1/2"	1/2"		1-1/2"			PROVIDE TEMPERING VALVE PER DRAWING SET TO PROVIDE 110F
L-1	, , ,	ELECTRONIC INFRARED SENSOR METERING FAUCET, 0.5 GPM, HYDRO-SELF-POWERED W/BATTERY BACKUP, SINGLE										
		SUPPLY, OFFSET TAILPIECE, INSULATED DRAIN PIPING,		34		1/01	1/01					PROVDE VACUUM BREAKER (WATTS 289) 6" ABOVE
		PERFORATED STRAINER		34	WORK TABLE W/SINK	1/2"	1/2"	1-1/2"				FLOOD RIM OF SINK, CHECK VALVE ON HW (WATTS LF7R), ROUTE IW TO FLOOR SINK/DRAIN
GPV-2L	GAS PRESSURE REDUCING VALVE, 2PSI INLET,		MAXITROL 325-9L									
	SET TO 10" W.C. MAX TOTAL 2,250MBH			41	WORK TABLE W/SINK	1/0"						PROVDE VACUUM BREAKER (WATTS 289) 6" ABOVE
	FLOOR DRAIN, ADJUSTABLE CAST IRON SUMP	, ROUND NIKALOY STRAINER. INLINE TRAP SEAL	JOSAM 30000A	41	WORK TABLE W/SINK	1/2"	1/2"	1-1/2"				FLOOD RIM OF SINK, CHECK VALVE ON HW (WATTS LF7R), ROUTE IW TO FLOOR SINK/DRAIN
			SURE SEAL									, , , , , , , , , , , , , , , , , , ,
2"FD-2	FLOOR DRAIN. ADJUSTABLE CAST IRON SUMP	SQUARE NIKALOY STRAINER, INLINE TRAP SEAL	JOSAM 300005	45		3/4"						
			SURE SEAL	45	COMBI-OVEN	(RO)				3/4"		SYSTEM (PROVIDED BY OWNER, INSTALLED BY P.C.), QUICK CONNECT COUPLING
3"FS	FLOOR SINK, PORCELAIN ENAMELLED,	HALF GRATE, CHLORALLOY MEMBRANE (EXCEPT IN SLAB	JOSAM 49340A	50	FRYER. GAS FIRED					3/4"		
_		ON GRADE), INLINE TRAP SEAL	SURE SEAL	52 54	FRYER, GAS FIRED GRIDDLE							QUICK CONNECT COUPLING
со	FLOOR CLEANOUT, CAST IRON HOUSING	ROUND NIKALOY TOP (SUBSTITUTE SQUARE TOP (1-SQ) IN	JOSAM 55000-1		CHAR-BROILER							QUICK CONNECT COUPLING
		TILED AREAS, CARPET MARKER (-14) IN CARPETED AREAS)			6-BURNER RANGE W/ OVEN BASE							QUICK CONNECT COUPLING
GWH	GAS FIRED CONDENSING WATER HEATER,	P&T RELIEF	AO SMITH				<b>1</b> / <b>0</b>					PROVIDE TEMPERING VALVE PER DRAWING SET TO
	POWER/DIRECT VENT 300MBH, 120 GAL		BTH 300A	61	HAND SINK	1/2"	1/2"		1-1/2"			PROVIDE 110F
	CAPACITY, 349 GPH @ 100F,			66	HOT FOOD TABLE		1/2"	(3) 1"				ROUTE IW(S) TO FLOOR SINK/DRAIN
	FOAM INSULATION, ASME RATED TANK, 95%											PROVIDE MANUAL SHUTOFF VALVE AND BACKFLOW
	EFF.			81	TEA BREWER	1/2" (FLTRD)						PREVENTER (WATTS SD-3), ROUTE CW SUPPLY THRU WATER FILTER (PROVIDED BY OWNER, INSTALLED BY
	DIAPHRAGM EXPANSION TANK, 6.4 GALLONS	ASME RATED	AMTROL ST-12C									P.C.)
SA	SHOCK ABSORBER, COPPER SHELL, AIR		JOSAM SA-X									,
	CUSHION					1/2"						PROVIDE MANUAL SHUTOFF VALVE AND BACKFLOW PREVENTER (WATTS SD-3), ROUTE CW SUPPLY THRU
		STAINLESS STEEL ACCESS COVER (JOSAM 58600)	JOSAM 58910-19	84	SODA / ICE DISPENSER	(FLTRD)		1"				WATER FILTER (PROVIDED BY OWNER, INSTALLED BY
1-1/2"AA	AIR ADMITANCE VALVE		STUDOR VENT MINI-VENT									P.C.), ROUTE IW TO FLOOR SINK/DRAIN
		COORDINATE LOCATION WITH G.C										
CP	DOMESTIC RECIRC PUMP, IN-LINE, BRONZE, 1/2"		GRUNDFOS	86	3-COMPARTMENT SINK	(2) 1/2"	(2) 1/2"	(3) 1-1/2"				PROVDE VACUUM BREAKER (WATTS 289) 6" ABOVE FLOOD RIM OF SINK, CHECK VALVE ON HW (WATTS
	UNION CONNECTION, INTEGRAL CHECK VALVE,	<i>i</i>	UP 15-18 BUC5				\ <b>-</b> / "					LE7R), ROUTE IW(S) TO FLOOR SINK/DRAIN
	86W, 120V/1; 2 GPM @ 13'H											
WH-I	FREEZE PROOF WALL HYDRANT , TEE KEY HANDLE W/ HINGED DOOR	VACUUM BREAKER	WOODFORD MODEL B65	25	DISHMACHINE		<b>•</b> (4)					
		VACUUM BREAKER	WOODFORD MODEL B22	95	DISHMACHINE		3/4"	1-1/2"				VALVE, VACUUM BREAKER (WATTS 289), IW TO FLOOR
W⊡-∠	HANDLE W/ HINGED DOOR. HW AND CW		WOODFORD MODEL 022									
	CONNECTIONS											PROVDE VACUUM BREAKER (WATTS 289) 6" ABOVE
1/2"807	REDUCED PRESSURE BACKFLOW PREVENTER.	CTRAINER GUI ITOEE VAI VEG AIR GAD	WATTS LF009QTS-SS. 909AG	96	DISH SINK PRE-RINSE	1/2"	1/2"	1-1/2"				FLOOD RIM OF SINK, CHECK VALVE ON HW (WATTS
	STAINLESS STEEL	STRAINER, Shuturr valves, air uar										LF7R), ROUTE IW(S) TO FLOOR SINK/DRAIN
		ROUND NIKALOY TOP (SUBSTITUTE SQUARE TOP (1-SQ) IN	JOSAM 55000-1	104	GLASS WASHER		1/2"	1-1/2"				ROUTE IW TO FLOOR SINK/DRAIN
		TILED AREAS, CARPET MARKER (-14) IN CARPETED AREAS)										
G		PEDESTRIAN RATED COMPOSITE COVER, RISER AS	SCHIER GB-250	105	DUMP SINK	1/2"	1/2"	1-1/2"				PROVIDE TEMPERING VALVE PER DRAWING SET TO
	, , ,	REQUIRED (FIELD VERIFY LOCATION AND RISER HEIGHT)										PROVIDE 110F, IW TO FLOOR SINK/DRAIN
	GPM			107	BEER TOWER			1"				ROUTE IW TO FLOOR SINK/DRAIN
GPV-1	SINGLE APPLIANCE GAS PRESSURE REDUCING	J VENT LIMITER(12A39) IF INSTALED INDOORS	MAXITROL 325-5	-								
-	VALVE, 2PSI INLET, SET TO 10" W.C. MAX			112	HAND SINK	1/2"	1/2"		1-1/2"			PROVIDE TEMPERING VALVE PER DRAWING SET TO
	SINGLE APPLIANCE - 325MBH											PROVIDE 110F
GPV-2L	LINE GAS PRESSURE REDUCING VALVE, 2PSI	VENT LIMITER(12A49) IF INSTALED INDOORS	MAXITROL 325-7AL	116	ICE BIN			1"				ROUTE IW TO FLOOR SINK/DRAIN
	INLET, SET TO 10" W.C. MAX TOTAL 1,250MBH							·				
												PROVIDE MANUAL SHUTOFF VALVE AND BACKFLOW
				117	SODA GUN	1/2"						PREVENTER (WATTS SD-3), ROUTE CW SUPPLY THRU
						(FLTRD)						WATER FILTER (PROVIDED BY OWNER, INSTALLED BY P.C.), ROUTE IW TO FLOOR SINK/DRAIN
												PROVIDE MANUAL SHUTOFF VALVE AND BACKFLOW
				121	BLENDER STATION W/DUMP SINK	1/2"	1/2"	1-1/2"				PREVENTER (WATTS SD-3), ROUTE IW TO FLOOR
												SINK/DRAIN
												PROVIDE MANUAL SHUTOFF VALVE AND BACKFLOW
				124	BLENDER STATION W/DUMP SINK	1/2"	1/2"	1-1/2"				PREVENTER (WATTS SD-3), ROUTE IW TO FLOOR
	CONCENTRIC VENT. REFER TO											SINK/DRAIN
				127	ICE BIN			1"				ROUTE IW TO FLOOR SINK/DRAIN
				NOTES:								
					*COORDINATE ALL ROUGH-IN HEIGHTS .	AND LOCAT						
	SLOPE				** PROVIDE GAS PRESSURE REGULATO	R (MAXITRO	RVV FOR	14" W/C IF A	PDUANCE	IS NOT	BATED E	OR 14"W.C. MAXIMUM PRESSURE OR IF REQUIRED BY



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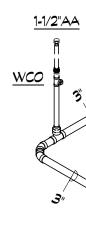
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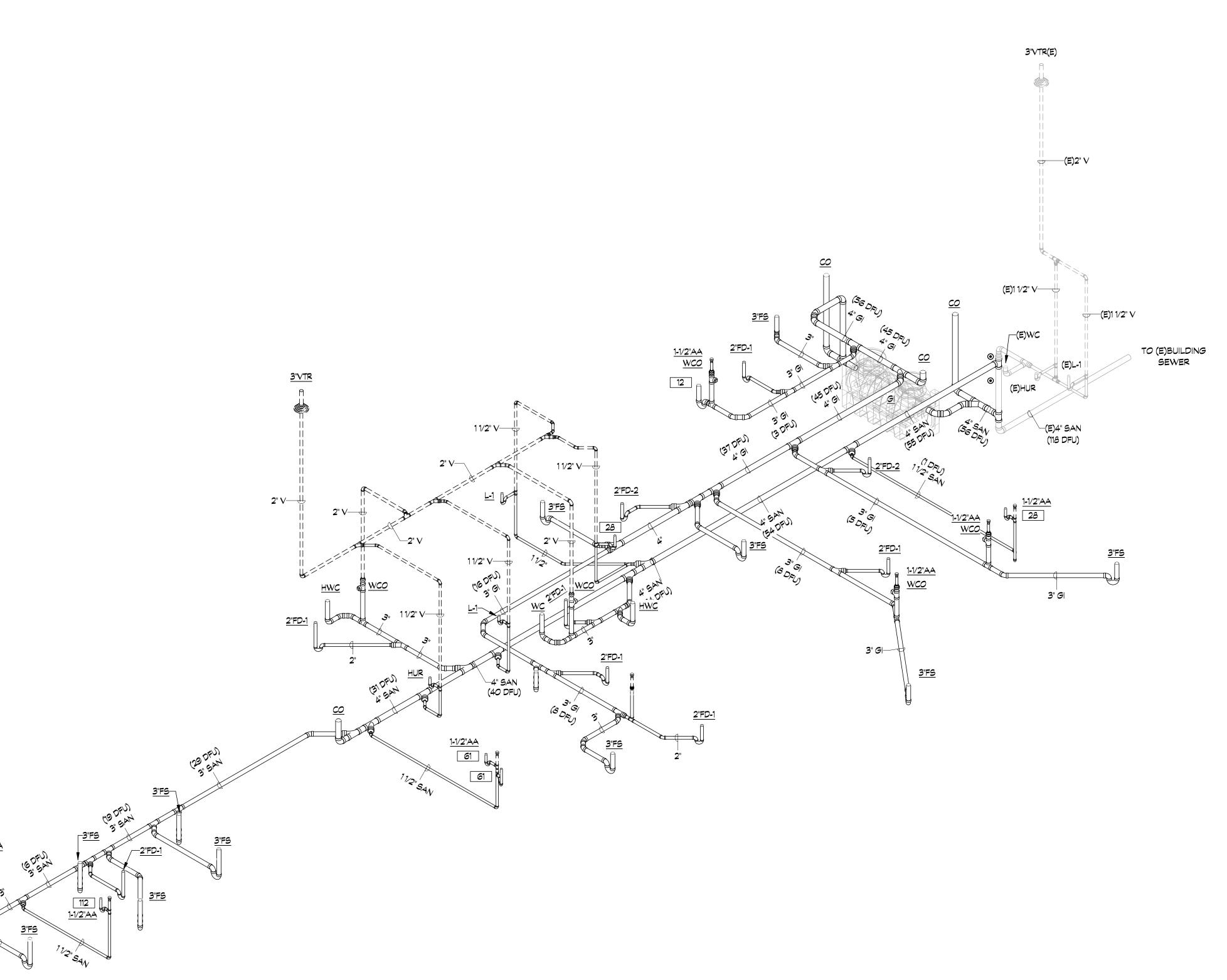
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**36**168 09/21/2023 PROJECT No: 23086 ISSUE DATE: 09.21.2023 REVISIONS: SHEET TITLE: PLUMBING DETAILS & SCHEDULES P4.1



## OVERALL DWV ISOMETRIC DIAGRAM





**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. The sprinkler system(s) shall be as follows: Wet system throughout. B. Secure and pay for all necessary permits and certificates of inspection, and present to Owner with the signed certificates of final inspection.
- C. Coordinate this work with all other trades so as to have a minimum of interference. INSTALLATION SHALL NOT BEGIN UNTIL DUCTWORK IS INSTALLED OR WRITTEN AUTHORIZATION IS MADE BY THE OWNER.
- D. Accomplish all necessary cutting and patching for installation of piping and equipment, and provide all cutting as directed by Architect. Where necessary to cut chases in walls, reinforce walls as directed. After work is installed, patch holes to match original
- E. The system design including pipe sizing and location, configuration of branches and head connections, shall accommodate the installation of up/down heads in all areas which may or may not have a dropped ceiling.
- F. RELATED WORK: Basic materials and methods: Section 22 05 00. 1.02 QUALITY ASSURANCE
- A. Sprinkler equipment and installation to be approved by local fire authority.
- B. Provide a complete automatic fire protection system as required. System shall be complete in all respects and in accordance with all applicable codes, ordinances, International Building Code, and NFPA Volume 2, Section 13 and NFPA Volume 2, Section 14. C. The system shall be installed by a firm regularly engaged in the design and installation of automatic sprinkler systems in accordance
- with the requirements of the National Board of Fire Underwriters. Architect may require evidence to support the above qualifications and may reject any proposed installer who cannot show suitable experience. D. All materials and equipment used in the installation of the sprinkler system shall be as approved in the Underwriters' Laboratories' list
- of inspected fire protection equipment and materials, or the Factory Mutual Laboratories' list of approved equipment and fire protection devices involving fire hazard, and shall be the latest product of the manufacturer.
- 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).
- B. Shop drawings shall show all proposed routing of piping. Piping shall be installed to clear all other items of equipment and Architectural and Structural components within the building. Show all details required to make a complete installation from the shop drawings. After approval of drawings has been obtained, install the system exactly as shown. Obtain approval from Architect/Engineer to make any changes from shop drawings.
- C. Shop drawings shall clearly show any piping that will not be concealed in the building structure
- 2.01 ACCEPTABLE MANUFACTURER'S
- 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 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. B. Fittings and joints shall be as follows:
- 1. <u>2" and larger</u> : Welded with standard weight fittings or "Victaulic" fittings.
- 2. <u>1-1/2" and smaller</u> : Screwed with 150 lb. malleable iron fittings.
- 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
- 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. 1. Finished areas (ceiling): Semi-recessed, polished chrome pendant heads. Heads shall be Model A with recessed closure.
- 2. Finished areas (wall):Exposed sidewall (Universal Model A).
- 3. Unfinished areas (ceiling): Exposed pendant or upright head, as required by the application (Universal Model A). 4. Areas exposed to freezing temperatures: Dry pendant (Model F 960).
- B. Provide steel sprinkler guards on heads, which are exposed to physical damage.
- 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 B. If exposed, piping shall be installed in the most direct, straight, and least obtrusive manner possible, and as close to walls and ceilings
- as is consistent with good workmanship C. Install piping graded to low points and in manner to make it possible to test and empty entire system
- D. Pipe and fittings shall be inspected for soundness and cleaned of all dirt and other foreign matter prior to being installed. All
- damaged pipe and fittings shall be rejected. Heads shall be covered, and system shall be ready for painting. E. Protect open pipe ends whenever work is suspended during construction, to prevent foreign bodies entering and lodging therein. Use cast iron or malleable iron caps, or other methods as approved by the 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. B. All piping and equipment shall be tested and proved tight under a hydrostatic pressure of 150% of the main pressure or 200 psig,
- whichever is larger. The test shall be conducted for a six-hour continuous period, with not be more than 2 pounds of pressure loss during this period in any part of the system. Any leaks found shall be repaired and the pressure test repeated.
- C. All tests shall be performed in the presence of the Architect or authorized representative of the Owner.
- 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 at least six spare sprinkler heads or a minimum of two of each type used for systems with less than 300 heads total. 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
- Domestic hot and cold water systems
- 3. Interior sanitary sewer system
- 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:
- 1. Building Code: 2021 International Building Code
- 2. Plumbing Code: 2021 International Plumbing Code
- 3. Mechanical Code: 2021 International Mechanical Code
- 4. Fire Code: 2021 International Fire Code
- 5. Gas Code: 2021 International Fuel Gas Code 6. Energy Code: 2021 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
- Plumbing fixtures and appurtenances. 4. Pumps

- 1.06 WARRANTY
- 1.07 PRODUCT HANDLING AND CLEAN UP
- 1.08 CUTTING AND REPAIRING
- the Architect. The General Conditions take precedence. 1.09 OPERATING AND MAINTENANCE DATA
- 1. Operating manual and spare parts list for each piece of equipment.
- 3. Instructions on who to call for service during the warranty period.
- 1.10 PERMITS
- 1.11 TEMPORARY SERVICES
- 1.12 COORDINATION
- ordering equipment Division 21-23 EC = Division 26-28
- Item Combination starters Equipment motors Motor starters & O.L. relays MC EC EC MC Disconnect switches Thermal overload heaters (1) EC EC EC ---Variable Speed Drives
- Control relays/transformers MC MC EC MC Temperature control panels MC MC EC MC Temp. Controls conduit/wiring MC MC -- MC
- Pushbuttons & pilot lights MC MC -- MC Room thermostats Thermostats: line voltage EC EC ---
- Control motors are wired by the MC. project.
- 1.13 DELIVERY, STORAGE, HANDLING
- 1.14 AS-BUILT DRAWINGS
- the "as-built" installation. 1.15 PROJECT/SITE CONDITIONS
- 1.16 PLAN VERIFICATION
- omissions in the contract documents will not be allowed.
- 2.01 EXPANSION JOINTS, GUIDES, AND ANCHORS bellows type.

2.03 RELIEF VALVES

Watts or equivalent.

2.04 FLEXIBLE CONNECTORS

equivalent.

2.05 SPECIALTIES

2.06 ELECTRICAL

2.07 ACCESS PANELS

2.08 EXCAVATION AND BACKFILLING

match surroundings.

expense to the owner.

C-series manufactured by Cooper B-line, Erico, or approved equivalent.

2.09 START-UP PROCEDURES

2.10 PIPING INSTALLATION

2.11 HANGERS AND SUPPORTS

2.12 SLEEVES AND PLATES

2.13 PIPING TESTING

loss of pressure

and flushed.

2.14 CLEANING AND STERILIZATION

completely water-tight.

2.02 <u>VALVES</u> A. Gate valves 2" and smaller shall be cast bronze, rising stem, solid disc, 200 PSI WOG B. Ball valves 2" and smaller shall be cast bronze, full port, stainless steel ball, teflon sets, 400 PSI WOG.

### 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.

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.

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

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

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:

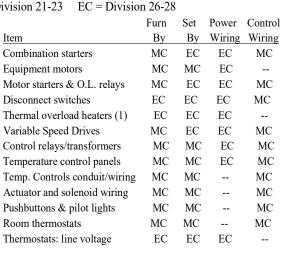
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.

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

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

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

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 =



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.

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

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

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

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

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,

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

C. Butterfly valves 2" and smaller shall be cast bronze, stainless steel disc, surrounding fluorelastomer seal, 350 PSI WOG. D. Check valves shall be horizontal, swing-cast bronze, bronze disc, 200 PSI WOG. E. Valves shall be domestically manufactured by Milwaukee, Powell, Nibco, or equivalent.

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 floor drain where possible and per code. Valves shall be manufactured by

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

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

B. Pressure Gauges: 4 1/2" dial type, aluminum housing. Ashcroft 1010 or equivalent. C. Thermometers: 7" red reading mercury type. Palmer Instruments or equivalent.

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.

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.

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

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

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.

- B. Material and methods per ASME, ASTM, ASA, AWS, and National Plumbing Code Handbook 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. D. Piping on the roof will be supported above the roof on roof pads. The pads shall be approximately 6"Wide by 6" high by the length as required. They shall be made of recycled rubber, rated for 500lbs/ft loading each. The pads will have galvanized steel "C" channel attached to the top, which can accommodate pipe clamps to secure the piping. This configuration of individual piping pads may be expanded to include two pads supporting a trapeze style support where multiple pipes are racked together. The pads are

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.

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 walls(insulation to be continuous through walls.

B. Drill holes as required for the installation of hangers required for the mechanical work.

C. Where sleeves are placed in exterior walls below grade, the space between the pipe or conduit and the sleeves shall be made

D. Seal all piping passing through fire-rated construction with approved material to maintain air-tight, fire-rated integrity, with a U.L. listed assembly compatible with the wall or floor assembly being penetrated.

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

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

B. Sterilize the domestic hot and cold water piping in accordance with the local health authority standards. Flush the systems with clear water until the residual chlorine content is equal to that of clear water.

- C. Where there is no water treatment contractor sterilize piping system with chlorine for 24 hours to 50 PPM. Completely flush to less than 1 PPM. Local health authority standards take precedence.
- 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 completion of the piping or insulation, paint stenciled descriptive abbreviations, including directional arrows, on piping at equipment and approximately every 25'.

### 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

2.01 PIPE INSULATION FOR PIPING ABOVE GRADE

A. Piping shall be insulated	with rigid fiberglass insulation. Th	ne insulatio	on shall be covered with an all purpose jack	cet, sealed with
pressure sensitive tape.	Insulation shall have a K-factor of	.23 at 75	°F mean with thicknesses as follows:	

Pipe Sizes	<1"	1" to 1¼"	> 11/2"
Dom. cold piping	1/2"	1/2"	1"
Roof drain sumps, & horizontal leaders	1/2"	1/2"	1"
Dom. hot & recirc. Piping	1"	1"	1-1/2"

- B. Fittings shall be insulated using a one piece PVC fitting cover, except in return air plenums where they will be aluminum. Insulation used with this fitting shall be of thickness of adjacent pipe covering.
- C. Insulation shall be Johns-Manville "Micro-Lok AP-T" with "Zeston" fittings or equivalent by Owens-Corning, Armstrong,
- Certainteed or Knauf D. 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.
- 2.02 PIPE 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 $1\frac{1}{4}$ "	> 11/2"
Dom. cold piping	1/2"	1/2"	1"
Dom. hot & recirc. Piping	1"	1"	1"

- B. Insulation shall be Armacell "Armaflex" or equivalent by Johns-Mansville, Owens-Corning. C. Exterior piping insulation will be painted with a white solvent based alkyd 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.

### 3.01 PIPE(FIBERGLASS)

- A. Secure cloth with adhesive applied to seal laps of cloth. Jacket overlap on longitudinal seams and ends of piping insulation shall be pasted down with a waterproof adhesive. B. Provide pre-formed isocyanurate or calcium silicate rigid pipe support with metal shield at all pipe supports per manufacturers
- instructions. Insulation must not be interrupted for supports, etc.

C. Pipe saddles shall be type M-URSA as manufactured by Industrial Insulation Sales, or equivalent. 3.02 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.

### SECTION 22 10 00 - PLUMBING

1.01 WATER SERVICE

- A. Connect to existing domestic water system as indicated on plans. 1.02 SANITARY SEWER CONNECTION
- A. Connect to existing sanitary sewer system as indicated on plans
- 2.01 DOMESTIC WATER SYSTEM PIPING
- A. Domestic cold, hot, and recirculating hot water piping may be either copper, or PEX, as noted below:
- 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-pex" style or equivalent. Manifolds may be copper, brass, or plastic, with balancing
- 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 ASTMD2855, 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.
- 2. 316 Stainless steel, conforming to AISI316L/EN1.4404, using push-on EPDM seals shall be used in commercial kitchens to a point approximately 20' downstream of drains serving dishmachines 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. B. Regulators shall be Maxitrol, or equivalent, of size and capacity as required.
- 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 90.1b-1992. The heater 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. B. Water heater shall be provided with R 14 insulation. Where factory insulation does not meet insulation requirements, provide aftermarket insulated jacket as required to meet requirements.
- C. Where flue is run thru uninsulated, unconditioned spaces (attics, crawlspaces, etc.), insulate the flue with R8 equivalent insulation. D. The water heaters shall be manufactured by A.O. Smith, State, Polaris, Ruud or Bradford-White.
- 2.06 CONDENSATE NEUTRALIZER A. Neutralizer shall be inline type made from corrosion resistant material with replaceable neutralization media. Neutralizer shall be of
- appropriate size and type for appliance served.
- B. Manufacturer shall be Dayton, Axiom, or equivalent. 2.07 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.
- B. The pump shall be furnished with an automatic timer kit. C. Manufacturer shall be Bell and Gossett, Paco, Taco, or approved equivalent.
- 3.01 DOMESTIC WATER SYSTEM

existing sewer before starting work.

- 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. B. Provide swing or swivel joints on connections as required to prevent noise or vibration of the piping. Provide fixture stops at all fixtures, hose bibbs, wall hydrants, and Owner-furnished fixtures. Run all piping on warm side of building insulation. Pipe insulation
- is not considered freeze protection. Provide water hammer arrestors where required. Locate to be accessible or provide access panel. 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

B. Install a clean-out at the base of each soil stack, at the base of each interior rain-water conductor, at each change in direction, at

intervals not over 50 feet interior of building, and every 100 feet exterior to building and elsewhere as shown on the drawings or

floors and walls. Wall covers shall be round polished stainless steel with centered stainless steel securing screw (Josam 58710).

required by Code. Make clean-outs same size as pipe service, except they need be no larger than 4". Set tops and covers flush with

Floor cleanouts shall be flush, cast iron, ABS plug with Nikalloy cover(Josam 56000). Provide floor clamps at each floor for uniform

support of stacks.

C. The entire drain waste and vent, and storm sewer systems shall be watertight and odorproof, including sealing of floor drains and sinks, closet rings, etc.

### 3.03 WATER HEATER INSTALLATION

- A. Install water heaters per manufacturer's instructions. Provide 24 gauge, galvanized steel drain pan, piped with minimum <sup>3</sup>/<sub>4</sub>" drain, piped to an approved receptor with indirect waste connection per code
- B. Route the P/T relief valve full sized to approved receptor and discharge per code. Provide expansion device, tank or valve, as required by code, and allowed by the local jurisdiction.
- C. Flue and combustion air ducts shall be provided by the mechanical contractor, unless otherwise noted. Where sealed combustion water heaters are used, the Plumbing Contractor shall install PVC flue and combustion air piping. This piping will be of the size and type recommended by the manufacturer, and use factory recommended discharge/intake fittings as shown on the plans.
- D. Condensing water heaters shall utilize an inline condensate neutralizer. Provide PVC drain from water heater and/or flue with a minimum <sup>1</sup>/<sub>2</sub>" drain, piped to an approved receptor with indirect waste connection per code. Verify installation details with

### 3.04 PLUMBING FIXTURES AND TRIM

manufacturer.

- 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
- 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 2'x2'. 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. <u>Water closet</u>: 14"-15" to top of bowl rim; Handicapped, 18" to top of bowl rim.
- 2. <u>Urinal</u>: 24" to top of bowl rim;
- Handicapped, 17" to top of bowl rim.
- 3. <u>Lavatory</u>: 31" to top of basin rim; Handicapped, 32" to top of basin rim.
- 4. <u>Drinking fountain</u> : 40" to top of basin rim;
- Handicapped, 36" to spout.

5. <u>Water closet flush valves</u> : Standard, 11" minimum above bowl rim. Locate flush valves on "wide" side of handicapped toilets. 6. Floor drains : In finished areas, 1/4" - 1/2" below finished floor. In mechanical rooms and other unfinished areas, install at least 1" below floor, except where it would be a stumble hazard.

G. Rough-in fixture piping connections in accordance with the following table of minimum sizes or as required for particular fixtures.

	HW	CW	Waste	Vent
Lavatories	1/2"	1/2"	1-1/2"	1-1/4"
Service sink	1/2"	1/2"	2"	1-1/2"
Drinking fountain		1/2"	1-1/4"	1-1/4"
Water closet (Valve)		1"	3"	2"
Water Closet (tank)		1/2"	3"	2"
Urinals		3/4"	2"	1-1/2"
Floor drains			2"	1-1/2"
Hose bibs		3/4"		
Wash Mach Unit	1/2"	1/2"	2"	1-1/2"
Kitchen equipment	SEE SC	HEDUI	LE & PL	ANS
Owner furnished equipment	SEE SCI	HEDUL	E & PL	ANS

### 3.05 GAS PIPING

- A. Gas distribution system is based on both 2 PSI and a 6" W.C. natural gas pressure except where noted on plans. Provide all gas-fired equipment with gas pressure regulators or special orifices as required to operate at 5000 ft. elevation. Provide a gas cock and drip leg at each appliance.
- B. Gas piping on roof shall be secured to uv resistant Polyethylene foam block; Erico "Pipe Pier". Provide rubberized sheet under pipe
- C. Piping exposed outside shall be painted with an exterior type latex paint which matches the adjacent roof or wall. D. Appliance connection piping to be 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.

### 3.06 KITCHEN

A. Provide final connections to all kitchen equipment in accordance with manufacturer's instructions. Provide stops or shut-off valves for hot and cold water connection; plug cocks or quick- connect couplings for gas appliances. Indirect wastes shall be DWV copper, except at soda machines where plastic pipe shall be used.



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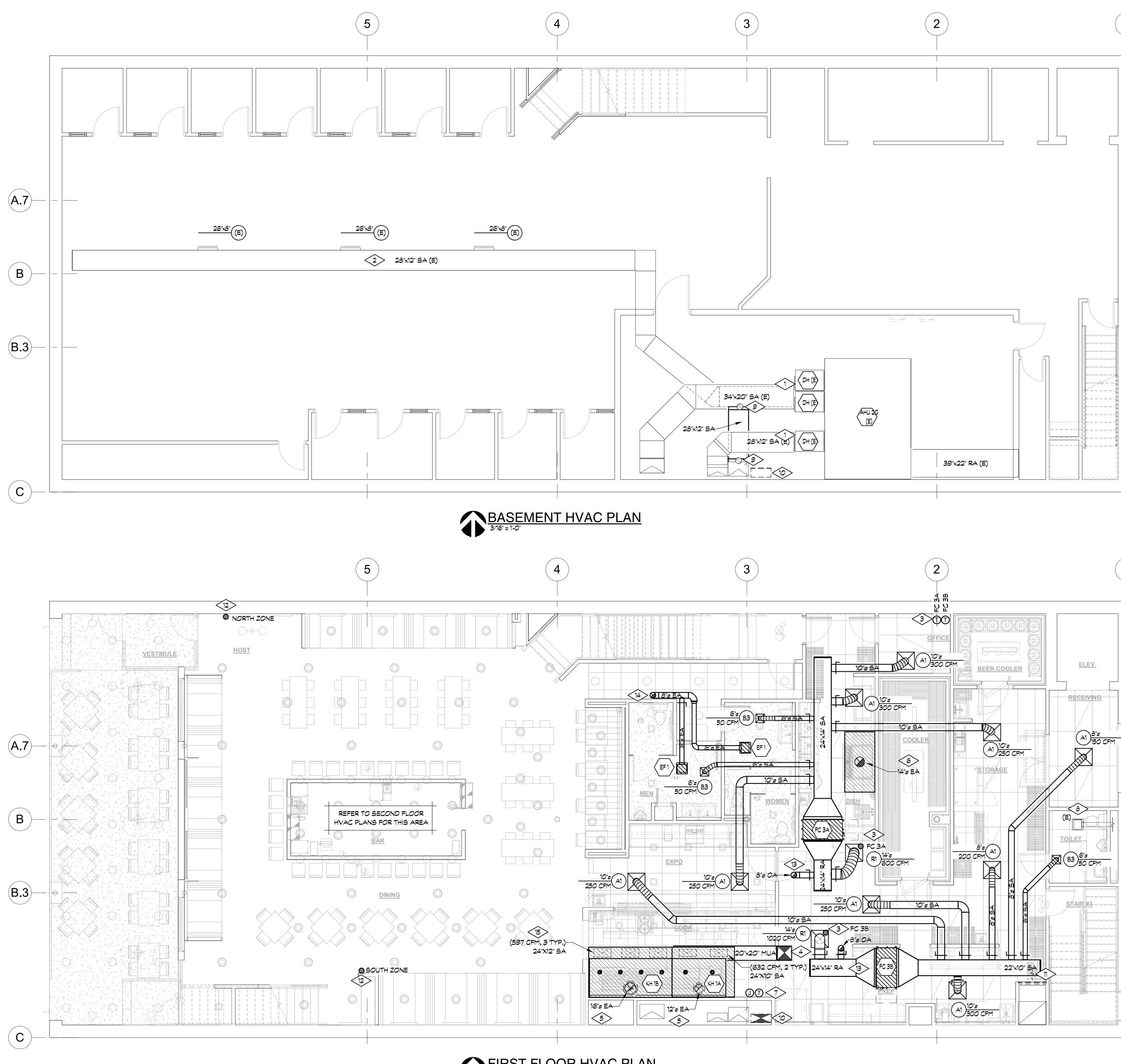
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SSUE DATE:	09.21.2023
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SHEET TITLE

PLUMBING SPECIFICATIONS

**P5.1** 



FIRST FLOOR HVAC PLAN



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- A. FIELD VERIFY EXISTING SIZE AND LOCATION OF DUCTS \$ MECHANICAL EQUIPMENT PRIOR TO BEGINNING WORK.
- B. 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.
- C. FLEX DUCT MAY NOT BE USED IN EXPOSED LOCATIONS. WHERE CONCEALED, FLEX DUCT RUNS NO LONGER THAN 2', REFER TO SPECIFICATIONS.
- D. GRILLES, REGISTERS & DIFFUSERS & EXPOSED DUCTWORK TO MATCH ADJACENT CEILING/STRUCTURE COLOR. REFER TO ARCH PLANS FOR FINISHES.
- E. FIELD VERIFY EXISTING DUCT MAINS ARE TIGHT TO STRUCTURE. NOTIFY ENGINEER OF ANY DUCTS NOT TIGHT TO STRUCTURE.
- F. 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

- EXISTING DUCT HEATER TO REMAIN. CLEAN, TEST AND INSPECT FOR PROPER OPERATION. NOTIFY OWNER OF ANY DEFICIENCIES OR REPAIRS REQUIRED.
- 2. CLOSE OFF ALL DIFFUSERS TO BALANCE TO 600 CFM IN BASEMENT.
- 3. LOCATE NEW THERMOSTATS IN MANAGER OFFICE, PROVIDE REMOTE BULB SENSORS AT RETURN GRILLE.
- 4. ROUTE NEW MAKE-UP AIR DUCTWORK UP TO NEW MUA-1 ON ROOF. RE: M2.1 FOR CONTINUATION.
- 5. DOUBLE WALL STAINLESS STEEL, ZERO CLEARANCE EXHAUST DUCTWORK(ASTM E814) FROM HOODS TO ROOF. CAPTIVEAIRE DW-2R OR EQUIV. SLOPE DUCTWORK TO HOOD AT 1/4" PER 12". VERIFY EXACT CLEANOUT LOCATIONS PRIOR TO CONSTRUCTION. TRANSITION TO HOOD & EXHAUST FAN AS REQ'D.
- 6. DUCT UP FROM DISHWASHER HOOD TO EXHAUST FAN. ALL EXPOSED DUCTWORK TO BE STAINLESS STEEL. SLOPE DUCTWORK BACK TO HOOD AT 1/8" PER 12". DUCT TO BE WATER TIGHT PER SPECIFICATIONS. TRANSITION AS NEEDED TO TYPE II HOOD AT DISH MACHINE, BALANCE AS INDICATED.
- 7. MAKE UP AIR CONTROL STATION/ ROOM OVERRIDE T-STAT. COORDINATE EXACT LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.
- 8. EXISTING RESTROOM EXHAUST FAN TO REMAIN. CLEAN  $\pounds$ SERVICE AS REQUIRED.
- 9. CONNECT NEW DUCT FROM EXISTING SUPPLY TO EXISTING OUTSIDE AIR DUCT. TO BE USED AS SUPPLY FOR UPPER LEVEL.
- 10. DEMO EXISTING FIRST FLOOR SUPPLY DUCT. CAP AND SEAL MAIN TRUNK.
- 11. REMOVE EXISTING 38X38 RETURN GRILLE. CAP AND SEAL.
- 12. REMOTE BULB SENSOR FOR REHEAT ZONES, COORDINATE WITH EXISTING CONTROLS.
- 13. 8" OA UP TO ROOF. SEE SHEET M2.1 FOR CONTINUATION.
- 14. 8" EA UP TO ROOF. SEE SHEET M2.1 FOR CONTINUATION.
- 15. MAKE UP AIR DUCT SIZED AS SHOWN. TRANSITION TO HOOD SUPPLY COLLAR AS NEEDED AND BALANCE TO AIR QUANTITY.



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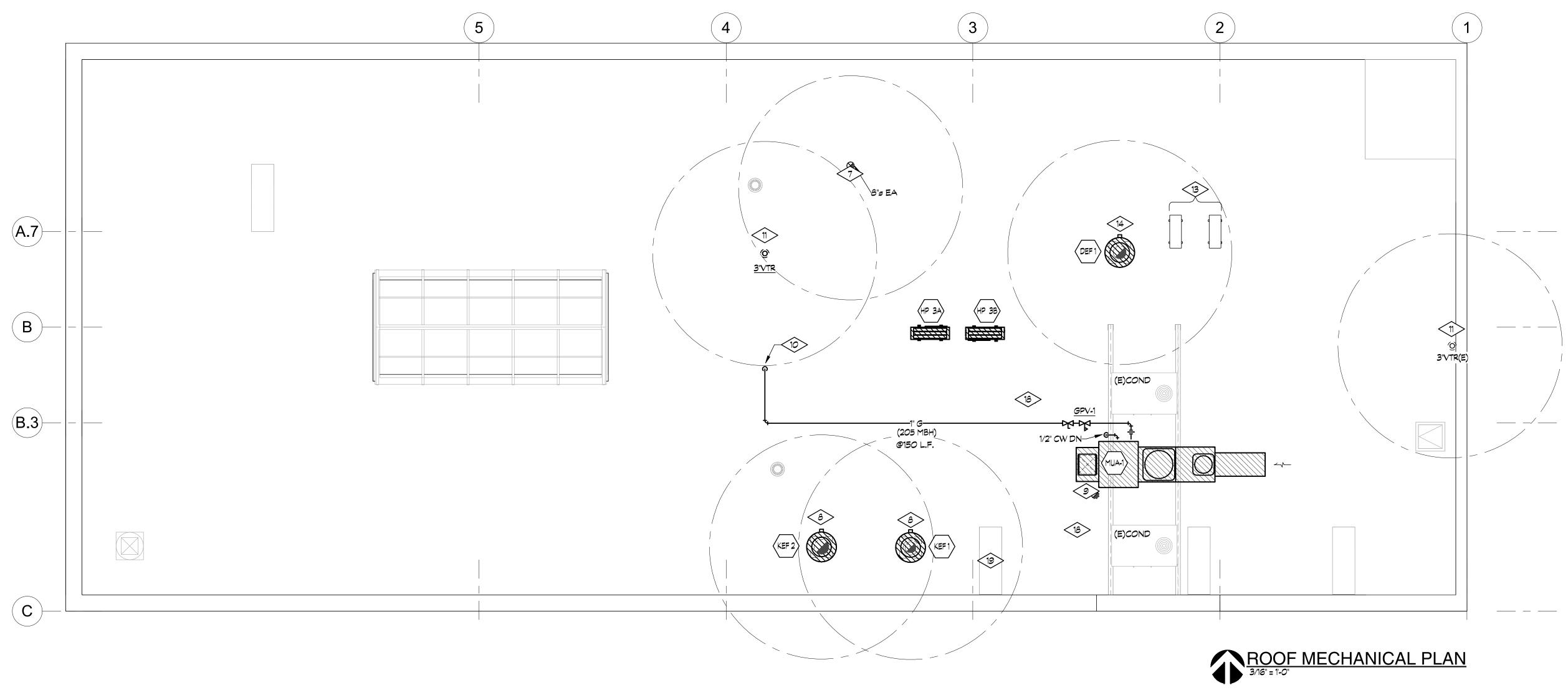
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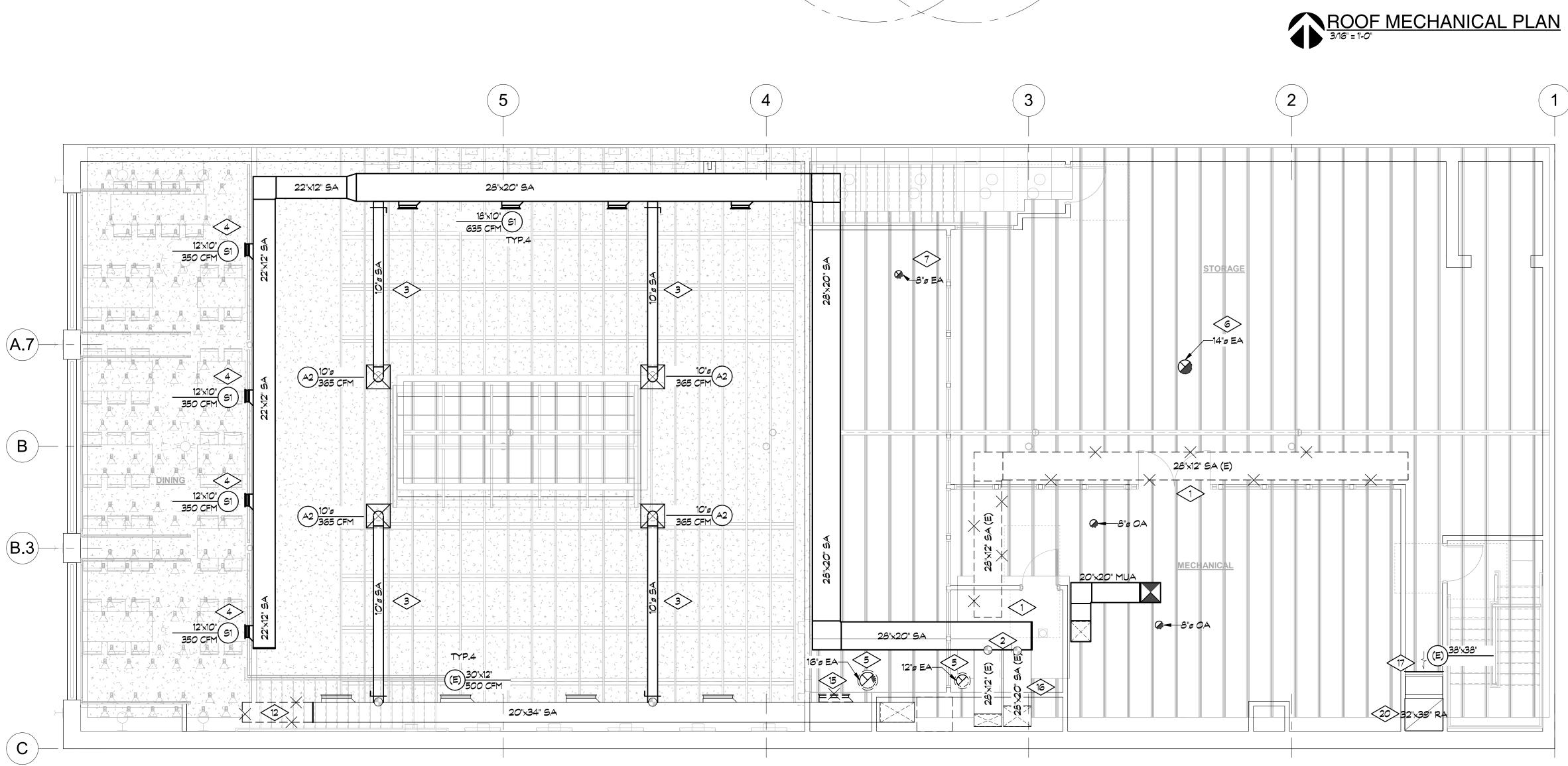
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	2308
SSUE DATE:	
	09.21.202
REVISIONS:	

SHEET TITLE: BASEMENT & FIRST FLOOR HVAC PLAN

M1.1







## DETAIL NOTES THIS SHEET

- 1. REMOVE EXISTING SUPPLY DUCTWORK AS INDICATED. EXISTING DUCT RISER FROM FURNACE TO REMAIN. FIELD COORDINATE EXTENT OF DUCTWORK REMOVAL WITH G.C.
- 2. EXTEND AND CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AS INDICATED.
- 3. DUCTWORK TO BE PAINTED TO MATCH STRUCTURE, LOCATE DIFFUSER IN CLOUD. RE: ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 4. PROVIDE SIDEWALL DIFFUSER TO SERVE 2ND FLR DINING AREA AS SHOWN, BALANCE TO CFM NOTED.
- 5. DOUBLE WALL STAINLESS STEEL, ZERO CLEARANCE EXHAUST DUCTWORK(ASTM E814) FROM HOODS TO ROOF. CAPTIVEAIRE DW-2R OR EQUIV. SLOPE DUCTWORK TO HOOD AT 1/4" PER 12". VERIFY EXACT CLEANOUT LOCATIONS PRIOR TO CONSTRUCTION. TRANSITION TO HOOD & EXHAUST FAN AS REQ'D.
- 6. DUCT UP FROM DISHWASHER HOOD TO EXHAUST FAN. ALL EXPOSED DUCTWORK TO BE STAINLESS STEEL. SLOPE DUCTWORK BACK TO HOOD AT 1/8" PER 12". DUCT TO BE WATER TIGHT PER SPECIFICATIONS. TRANSITION AS NEEDED TO TYPE II HOOD AT DISH MACHINE, BALANCE AS INDICATED.
- 7. EXHAUST DUCTWORK UP THRU ROOF, TERMINATE IN ROOF CAP WITH BACK DRAFT DAMPER. COORDINATE ROOF PENETRATION WITH G.C.
- 8. MOUNT ROOF GREASE EXHAUST FAN ON SPRING ISOLATORS. PROVIDE CURB W/ GALVANIZED CAP W/ 11/2" LIP ON ALL SIDES. PROVIDE GREASE GUARD PROTECTION SYSTEM (FACILITEC G2 GREASE GUARD XD). GREASE GUARD SYSTEM TO BE A MINIMUM OF 15" LARGER THAN THE EXHAUST FAN CURB. MAINTAIN 10-0" CLEARANCE FROM MECHANICAL AIR INTAKES AND BUILDING OPENINGS.
- 9. ROUTE MAKE-UP AIR DUCTWORK FROM UNIT DOWN IN AREA SHOWN. FIELD COORDINATE EXACT LOCATION AND ROOF PENETRATION WITH G.C. RE: M2.1 FOR CONTINUATION.
- 10. GAS PIPING DOWN THRU ROOF TO EXISTING GAS METER, RE: PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- 11. PLUMBING VENT THRU ROOF. MAINTAIN 10-0" CLEARANCE FROM MECHANICAL AIR INTAKES AND BUILDING OPENINGS.
- 12. CUT BACK EXISTING SUPPLY DUCT AND REMOVE EXISTING FURNACE. CAP AND SEAL.
- 13. WALK IN COOLER/BEER COOLER CONDENSING UNITS SHOWN FOR COORDINATION. COORDINATE EXACT LOCATION, WIRING AND LINESET LENGTH WITH FINAL LOCATION IN FIELD.
- 14. ROOF MOUNTED EXHAUST FAN, TRANSITION DUCTWORK WITHIN CURB AS REQUIRED. MAINTAIN 10'-0" CLEARANCE FROM MECHANICAL AIR INTAKES AND BUILDING OPENINGS.
- 15. REMOVE EXISTING SUPPLY GRILLE AND CAP OPENING.
- 16. USE EXISTING OUTSIDE AIR DUCT AS SUPPLY DUCT. CAP AND SEAL ROOF PENETRATION.
- 17. ADD ADDITIONAL 38X38 RETURN GRILLE IN THIS AREA. MATCH EXISTING GRILLE.
- 18. TERMINATE IN ROOF CAP. COORDINATE ROOF PENATRATION WITH G.C.
- 19. CAP AND SEAL OUTSIDE AIR DUCT.
- 20. VERIFY OPERATION OF EXISTING MOTORIZED DAMPER FOR ECONOMIZER AND MIXING DAMPER.



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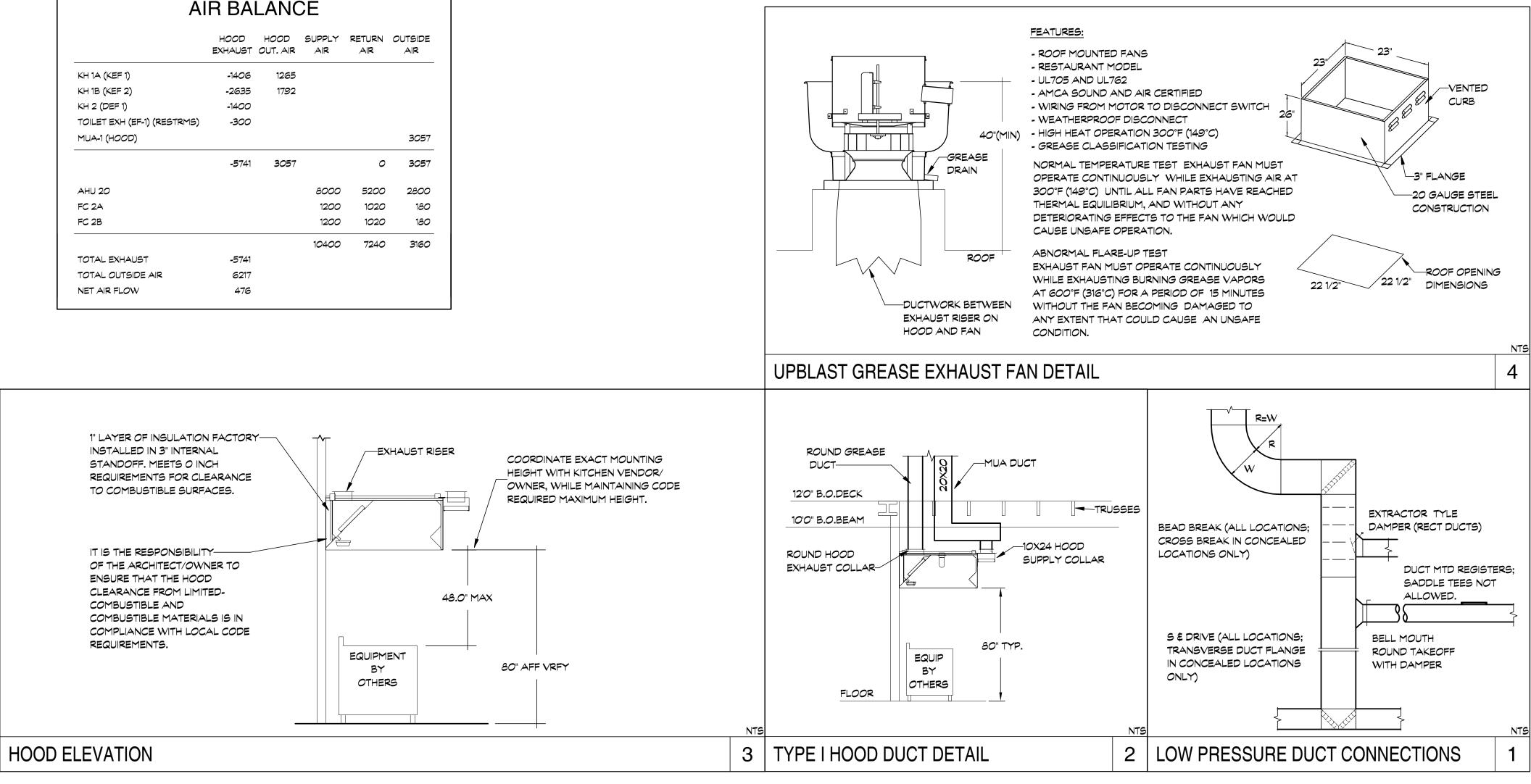




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	LEGEND				
		-1 COMche	eck Software Version COMchec	kWeb	KEY
<u> </u>	DUCT (INSIDE DIM. SIDE SHOWN INSIDE DIM. SIDE NOT SHOWN)	Mecha	anical Compliance Cert	ificate	
	SUPPLY DUCT (SECTION)	Project Information Energy Code:	2021 IECC		КН
	RETURN DUCT (SECTION)	Project Title: Location:	23086 - Teocalli Longmont Longmont, Colorado		14
		Climate Zone: Project Type:	5b Alteration		
	EXHAUST DUCT (SECTION)	Construction Site:	Owner/Agent: Desig	mer/Contractor:	
	ROUND DUCT, RIGID	Mechanical Systems Li			
$\rightarrow \rightarrow \rightarrow \rightarrow$	FLEXIBLE DUCT	Quantity System Type & D 1 HVAC System (Single Heating: 1 each - Cer			КН
	FLEXIBLE CONNECTOR	Cooling: 1 each - Spli Proposed Efficienc Proposed Part Load	ency requirement applies t System (CU 3 A-B), Capacity = 38 kBtu/h, Air-Cooled Cond y = 16.50 SEER2, Required Efficiency = 13.40 SEER2 d Efficiency = 0.00, Required Part Load Efficiency = 0.00 STEM 1 Compliance (Motor nameplate HP and fan efficienc		1B
	TURNING VANES	Fans;	le-Zone VAV, 741 CFM, 0.1 motor nameplate hp, 0.00 fan e		
$\boxtimes$	SUPPLY DIFFUSER (ARROWS INDICATE DISTRIBUTION)	1 Water Heater: Gas Storage Water H Proposed Efficienc	eater, Capacity: 120 gallons, Input Rating: 300 kBtu/h w/ Cir y: 95.00 % Et, Required Efficiency: 80.00 % Et	rculation Pump	KH 2
$\square$	RETURN REGISTER / GRILLE	plans, specifications, and other of	• Statement posed mechanical alteration project represented in this doc calculations submitted with this permit application. The prop requirements in COMcheck Version COMcheckWeb and to o	osed mechanical systems have been	MUA
$\oplus$	MECHANICAL POINT OF CONNECTION	mandatory requirements listed i		09/15/2023	1
<del>G</del>	FIRE DAMPER	Name - Title	Signature	Date	
٩	SMOKE AND FIRE DAMPER				FC 3
Ō	THERMOSTAT				A-B
	MANUAL BALANCING DAMPER				HP 3
	MOTORIZED BALANCING DAMPER				А-В
— HWS—	HOT WATER SUPPLY				EF 1
	HOT WATER RETURN	Project Title: 23086 - Teocalli Data filename:	Longmont	Report date: 09/21/23 Page 1 of 9	
00	CHILLED WATER SUPPLY				KEF 1
— CWR—	CHILLED WATER RETURN				
g	CONDENSATE				KEF 2
	· GRILLE / REGISTER / DIFFUSER				
	GRILLE / REGISTER / DIFFUSER				DEF 1
$\bigcirc$	MECHANICAL EQUIPMENT				
$\diamond$	DETAIL NOTE				NOTES
	KITCHEN / MEDICAL EQUIPMENT				
SA	SUPPLY AIR				
OA MA	OUTSIDE AIR MIXED AIR				
RA	RETURN AIR				
EA	EXHAUST AIR				
AD	ACCESS DOOR				
OBD	OPPOSED BLADE DAMPER				
RUS	ROUTE IN JOIST SPACE				
(E)					КН
(ER)	EXISTING TO BE REPLACED				КН
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Ē	DUCT DETECTOR				то
Δ	REMOTE INDICATING LIGHT				ML



HVAC SCHEDULE									
UNIT TYPE	DESCRIPTION	HEAT'G	COOL'G	FLOW	PRES.	WEIGHT	PWR	VOLT	MANUFACTURER/CAT. #
TYPE I EXHAUST HOOD	6' 3" TYPE I EXHAUST HOOD, LEFT UTILITY CABINET, UL 710/ NFPA 96/ NSF LISTED, PERFORATED MAKE UP AIR PLENUM, ANSUL FIRE SUPPRESSION SYSTEM PIPING, BALANCE DAMPERS, 18" FIELD WRAPPER, HIGH EFFICIENCY FILTERS, CONTROLS PACKAGE/ INTERLOCKS /ETC FOR A COMPLETE SYSTEM			1406 CFM EA/ 1265 CFM MUA		535 LBS	SEE HOOD PKG	SEE HOOD PKG	CAPTIVEAIRE 5424 ND-2-PSP-F (MAIN KITCHEN)
TYPE I EXHAUST HOOD	9' 7" TYPE I EXHAUST HOOD, UL 710/ NFPA 96/ NSF LISTED, PERFORATED MAKE UP AIR PLENUM, ANSUL FIRE SUPPRESSION SYSTEM PIPING, BALANCE DAMPERS, 18" FIELD WRAPPER, HIGH EFFICIENCY FILTERS, CONTROLS PACKAGE/ INTERLOCKS /ETC FOR A COMPLETE SYSTEM			2635 CFM EA/ 1792 CFM MUA		799 LBS	SEE HOOD PKG	SEE HOOD PKG	CAPTIVEAIRE 5424 ND-2-PSP-F (MAIN KITCHEN)
TYPE II EXHAUST HOOD	7' O" TYPE II EXHAUST HOOD, 14" DIA EXHAUST COLLAR			1400 CFM EA		256 LBS	SEE HOOD PKG	SEE HOOD PKG	CAPTIVEAIRE 4224 VHB-G-ND (MAIN KITCHEN)
MAKE UP AIR UNIT	DIRECT FIRED, DX COOLING, VERTICAL DISCHARGE, MODULATING BURNER, DUCT STAT WITH ROOM OVERRIDE STAT, ROOF CURB, 2" ALUM FILTERS	204 MBH	60 МВН	3057 CFM	0.5"	1531 LBS	9.5 MCA	208/3	CAPTIVEAIRE, A2-D250 SEE HOOD PACKAGE
FAN COIL	MID STATIC HORIZONTAL-DUCTED INDOOR UNIT, CEILING CONCEILED, BUILT-IN CONDENSATE LIFT MECHANISM, 16.5 SEER2	25.4 MBH @ 17°F	3 TON (NOM)	1200 CFM	0.4"	84 LBS	3.25 MCA	208/1	TRANE TPEADAO361AA8OA
HEAT PUMP	VARIABLE SPEED INVERTER HEAT PUMP SYSTEM, 16.5 SEER2, 10.4 HSPF	38 MBH	3 TON (NOM)	-	-	261 LBS	24 MCA	208/1	TRANE TRUZHO361KAOONA
CEILING EXHAUST FAN	BACK DRAFT DAMPER, 1100 RPM	-	-	100 CFM	0.25"	-	23 W	120/1	GREENHECK SP-A125 (RESTROOM)
UTILITY SET EXHAUST FAN	DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN, 1289 RPM, ALUMINUM WHEEL, CURB	-	-	1406 CFM	1.0"	98 LBS	1 HP	208/1	CAPTIVEAIRE DU85HFA, SEE HOOD PACKAGE
UTILITY SET EXHAUST FAN	DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN, 1364 RPM, ALUMINUM WHEEL, CURB, GRAVITY DAMPER	-	-	2635 CFM	1.75"	200 LBS	2 HP	208/3	CAPTIVEAIRE DU180HFA, SEE HOOD PACKAGE
UTILITY SET EXHAUST FAN	ALUMINUM WHEEL, CURB	-	-	1400 CFM	0.6"	88 LBS	3/4 HP	208/1	CAPTIVEAIRE DU85HFA, SEE HOOD PACKAGE
KITCHEN VEND * M.C. IS RESPO									

## **AIR BALANCE**

	HOOD EXHAUST	HOOD OUT. AIR	SUPPLY AIR	RETURN AIR	OUTSIDE AIR
H 1A (KEF 1)	-1406	1265			
H 1B (KEF 2)	-2635	1792			
H 2 (DEF 1)	-1400				
OILET EXH (EF-1) (RESTRMS)	-300				
1UA-1 (HOOD)					3057
	-5741	3057		0	3057
HU 20			8000	5200	2800
C 2A			1200	1020	180
С 2В			1200	1020	180
			10400	7240	3160
OTAL EXHAUST	-5741				
OTAL OUTSIDE AIR	6217				

GRILLE REGISTER DIFFUSER SCHEDULE						
KEY	DESCRIPTION	CEIL'G	ACCESSORIES	MANUFACTURER/CAT #		
A1	SQUARE CEILING DIFFUSER: 2'X2' FULLY LOUVERED FACE, 4 WAY, ROUND NECK, WHITE	GRID	OB DAMPER	TITUS TMS/3		
A2	SQUARE CEILING DIFFUSER: 2'X2' PERFORATED FACE, LAMINAR FLOW, WHITE	GRID		TITUS TLF		
в3	SQUARE CEILING DIFFUSER: 1'X1' LOUVERED FACE, ROUND NECK, DIRECTIONS OF THROW PER PLAN, WHITE	GYP/ GYP		TITUS TDC/1		
<b>S</b> 1	DOUBLE DEFLECTION SUPPLY REGISTER, FRONT BLADES PARALLEL TO SHORT DIMENSION, WHITE, ALUMINUM	GYP/ GRID	OB DAMPER	TITUS 272		
<b>T1</b>	AIR TRANSFER GRILLE ASSEMBLY, GALVANIZED METAL FRAME, BLADES PARALLEL TO LONG DIMENSION, WHITE	WALL/ FLUSH MTD	AIR TRANSFER ASSEMBLY W/ SOUND ABATEMENT	TITUS 25RL		
R1	GRID CORE RETURN GRILLE 1/2"X 1/2"X 1/2", ALUMINUM WHITE	GRID	SQ. TO ROUND FITTING	TITUS 50F/3		

VENTILATION (IMC-2018)										
SPACE NAME	SPACE TYPE	SQ FT	PEOPLE	CFM/P	CFM/ SF	Voz	Ez	Vdz	Vbz	Evz
AHU-20										
BASEMENT	STORAGE ROOMS	800	0	0	0.12	120	0.8	600	96	1.07
DINING ROOM/BAR	RESTAURANT DINING ROOMS	2221	156	7.5	0.18	1962	0.8	6000	1570	0.94
MEZZANINE	RESTAURANT DINING ROOMS	657	46	7.5	0.18	579	0.8	1400	463	0.85
						Vot	%0A	Vps	Vou	Εv
	SYSTEM TOTAL	3678	202			2497	31%	8000	2129	0.85
FC 2A & 2B										
KITCHEN	KITCHEN (COOKING)	<b>9</b> 17	19	7.5	0.12	316	0.8	2100	253	0.96
OFFICE	OFFICE SPACE	58	1	5	0.06	11	0.8	200	8	1.06
MEN'S RESTROOM	RESTROOMS (EXHAUST/FXT /TRNSF AIR)	111	0	70	0	0	0.8	50	0	-
WOMENS' RESTROOM	RESTROOMS (EXHAUST/FXT /TRNSF AIR)	122	0	70	0	0	0.8	50	0	-
						Vot	%0A	Vps	Vou	Εv
	SYSTEM TOTAL	1208	20			272	11%	2400	261	0.90

FOR RESTAURANTS ONLY: NOTE: BALANCE AIR HANDLERS AND ROOF TOP UNITS TO 15% OUTSIDE AIR, SYSTEM MINIMUM, OR OA QUANTITY IN AIR BALANCE CALCULATION, WHICHEVER IS GREATER. FLOW

Ez ZONE AIR EFFECTIVENESS Vdz ZONE DESIGN SUPPLY

Vbz UNUSED OA TO BREATHING AREA Voz UNUSED OA REQUIRED TO ZONE Evz ZONE VENTILATION EFFICIENCY (

\* RESTROOM 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 15% OUTSIDE AIR OR SYSTEM MINIMUM WHICHEVER IS GREATER.

	$\nabla$ ps	PRIMARY SYSTEM AIR FLOW
	Vou	UNCORRECTED OA
ĒA	Vot	MIN OA REQUIRED FOR SYSTEM
8	Ev	SYSTEM VENTILATION EFFICIENCY
(APP A)		



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**36**168 )9/21/2023

PROJECT No:	2308
SSUE DATE:	09.21.202
REVISIONS:	

SHEET TITLE: MECHANICAL DETAILS &

SCHEDULES

M4.1

### **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: 2021 International Building Code
- 2. Plumbing Code: 2021 International Plumbing Code 3. Mechanical Code: 2021 International Mechanical Code
- 4. Fire Code: 2021 International Fire Code
- 5. Gas Code: 2021 International Fuel Gas Code
- 6. Energy Code: 2021 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 equipmen
- 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 Furn Set Power Control

	Furn	Set	Power	Control	
Item	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		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 projec

### 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 DRAWING
- 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, nad 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 <u>GENERAL</u>

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

2.02 <u>REPORT</u> required and actual CFM of all outlets and inlets.

### **SECTION 23 07 00 - INSULATION**

1.01 QUALITY ASSURANCE

- 2.01 REFRIGERANT PIPE INSULATION
- be sealed weathertight and installed per manufacturers instructions.
- 2.02 DUCT INSULATION, WRAP
- 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"
- 2.03 DUCT LINER
- B. Duct liner shall be installed as follows or as shown on the plans:
- 1. Supply air ducts:
- 2. Exterior supply, return, or make up air ducts: 3" 3. Return air ducts(within 15' of fan): 1/2"
- 4. Outside air intakes within space:
  - 5. Treated make up air within space: (not insulated)

### 3.01 PIPE(ELASTOMERIC)

- supports, etc. 3.02 DUCT WRAP
- B. Tape all joints with 3" wide foil reinforced kraft tape. Tape all pin penetrations or punctures in the facing.
- 3.03 ACOUSTIC DUCT LINER

### SECTION 23 09 00 - AUTOMATIC TEMPERATURE CONTROLS

- 1.01 <u>SCOPE</u> be the mechanical contractor or approved sub-contractor.
- B. Acceptable automatic temperature control equipment manufacturer's shall be Honeywell, Johnson Controls, or controls furnished by the specific equipment manufacturer.
- Electrical Contractor
- 1.02 QUALITY ASSURANCE

1.03 SERVICE AND GUARANTEE

3.01 SEQUENCE OF OPERATION

collar by hood vendor).

equivalent as follows:

or less).

C. Flexible Ductwork (Polymer Liner):

Standard 181, Class 1.

1.02 SPECIAL DUCT SYSTEMS

A. Kitchen hood exhaust:

equivalent.

B. Kitchen hood exhaust:

prior to painting.

2.01 THERMOSTATS

1.01 DUCTWORK

B. Sheet Metal:

ance instruction booklets

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

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 field 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

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

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

A. Duct wrap insulation shall be flexible fiberglass insulation, 1 pcf, with factory-applied, reinforced, aluminum foil vapor barrier.

C. Wrap shall be Johns-Manville "Microlite" 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.

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. Liner shall have a "K" value of 0.24/inch at 75F mean.

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

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

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 wire at 12" on center. On ducts larger than 48", use mechanical fasteners on the bottom of the duct.

A. Liner shall be secured to all duct surfaces by pressing into wet adhesive, applied to 100% of the duct surface. In addition, liner shall be held in place with insulpins welded to duct and with clips slipped over the pins. Insulpins shall be located per SMACNA Standards. Liner 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.

A. Furnish, install, and place in operation a complete system of automatic temperature controls. The temperature control contractor may

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

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

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.

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

A. HVAC unit thermostats shall be low-voltage, programmable, heating/cooling type with fan on-auto switch. Units shall be Honeywell TH6000 or equivalent. Where shown, provide compatible remote bulb sensor:

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

E. Activation of a duct detector shall shut down its respective HVAC unit.

A. General All ductwork shall be constructed strictly according to the latest ASHRAE, SMACNA, and IMC standards. Duct sizes

### SECTION 23 30 00 - HVAC AIR DISTRIBUTION SYSTEMS

## shown are inside clear dimensions; maintain sizes inside lining for lined ducts.

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

### 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.

### 5. Location: Sheet metal may be used throughout the project.

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 an 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

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 flexduct may be used where the adjacent ductwork is uninsulated or unlined. 4. Flexduct shall be manufactured by Hart & Cooley, Clevaflex or equivalent.

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 butt welded. Slope exhaust duct at not less than 1/2"/ft, 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 instructions, and in conformance with ASTM std 2336. 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

3. Exterior ducts shall be painted with paint rated for 150F, color as selected by the Architect. The duct will be cleaned and primed

1. All parts of kitchen hood exhaust system shall be Underwriter's Laboratories-listed UL-1978 & 2221, double-wall, stainless steel, zero clearance system. The outer wall shall be stainless steel; inner wall shall be 430 stainless steel with built-in super wool insulation. All duct joints shall be joint by V clamps and sealed with 3m Fire Barrier. 2. The flue vent piping shall be manufactured by Captive Aire, or equivalent by Metalbestos, Heat-fab, or Selkirk.

### C. 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 duct, 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 Ferenco 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, sponge 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 casing connections shall have a flexible connector in each connection. Connector shall be made of at least one layer of Ventglas, two-side, 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 GRD's to structure where connected by flex 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 dampers, 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, ROOF (UPBLAST)

A. The roof-mounted exhaust fans shall have a spun aluminum housing with up-discharge outlet. The fan wheels shall be dynamically balanced, aluminum, centrifugal BI. 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 L.L. Std. 762. Fans shall be controlled as scheduled in Section 23 09 00 Controls. Provide grease trough where shown. Fans shall be Greenheck, Penn, Cook, Acme, Ilg, Carnes, or approved equivalent.

### 2.05 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, sealed ball bearing pillow blocks. Motor and sheaves will be protected in a weatherproof enclosure. Construction shall be non-sparking, listed for use with a Class I kitchen hood. Fan shall be mounted on spring vibration 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.

### 2.06 EXHAUST FAN, ROOF

A. The roof-mounted exhaust fans shall have a spun-aluminum housing. The fan wheels shall be dynamically balanced, aluminum, centrifugal BI. 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.

- 2.07 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 Dampers, Airstream, Dowco, Ruskin, or Titus.

### 2.08 AIR FILTERS

burner. Unit shall have spark ignition. D. Unit will have a factory furnished curb.

room override thermostat shall be mounted as shown on the drawings.

H. Provide a fill and drain kit, complete with all valves, sensors and controls.

C. The unit shall be capable of operating in heating mode with 70% capacity at -13F.

pump shall be able to raise drain water 33 inches above the condensate pan.

Metal and Air Conditioning Contractors National Association manual.

2.10CONDENSING UNITS(VARIABLE REFRIGERANT FLOW)

galvanized with baked acrylic enamel finish.

E. Provide a low ambient kit for operation down to -20F.

F. Provide lockable refrigerant caps on all access ports.

G. Unit shall be manufactured by Mitsubishi, LG or Daikin.

2.11 INDOOR AIR HANDLERS(WALL, CEILING, OR DUCTED)

System efficiency shall meet or exceed 16.0 EER.

warranty of six (6) years from date of installation.

D. Provide a factory furnished hail guard.

system/mode function switching.

drawings or elsewhere in this specification.

3.01 DUCTWORK

approved.

with aluminum fins.

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 8) 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.

- 2.09 MAKE-UP AIR UNIT (DIRECT FIRED) A. Provide a roof-mounted, natural gas, down discharge, direct fired make-up air unit, as shown on the plans. Housing shall be aluminized steel with painted enamel, and down discharge plenum.
- B. Blower shall be centrifugal type with forward curved DWDI wheel, dynamically balanced. The drive sheave shall be adjustable. Motor shall be 1800 RPM, open drip-proof type. Bearings shall be permanently lubricated. C. The burner shall be a cast iron burner with stainless steel mixing plate, and shall use a self contained or motorized modulating gas

valve with a turn down ratio of 25:1. Burner shall limit the products of combustion to a maximum of 5 ppm carbon monoxide, and

0.5 ppm nitrogen dioxide. Provide an observation in the burner cabinet. Profile plates shall control proper air velocity across the

E. Unit will have DX cooling section as shown on the drawings. The DX coil shall be furnished by the same manufacturer, designed to

also contain a "heat-vent-cool" mode switch. The leaving air temperature control dial shall be mounted on the control module. The

condenser shall consist of a hermetic scroll compressor(s) with five year warranty, condenser fan and motor, copper condenser coil

be compatible with the make-up air unit and condensing unit. The system will utilize a thermal expansion valve. F. Intake section shall have a birdscreen and extended surface 2" filter. Unit intake will be a factory provided intake cowling. G. Provide a remote control module, recessed mounted. The module will contain "burner on" and "blower on" indicating lamps. It will

I. Make-up air unit shall be ADF series, manufactured by Reznor or equivalent by Modine, Greenheck, or Captive Air.

A. Provide DX heating and cooling condensing units to be used in conjunction with air handler(s) as shown on the drawings. The

B. The compressor shall be inverter driven, resulting in variable frequency performance. The unit shall be furnished with an R-410

A. The air conditioning system shall be a DX cooling system using a wall, ceiling or ducted air handler with central remote condenser(s)

C. The indoor unit shall be factory assembled, wired and run tested. Contained within the unit shall be all factory wiring, piping, control

circuit board and fan motor. The unit shall have a self-diagnostic function, 3-minute time delay mechanism, an auto restart function,

an emergency operation function and a test run switch. Indoor unit and refrigerant pipes will be charged with dry air instead of R22

ducting shall be allowed from cabinet. The evaporator fan shall be two speed and shall be statically and dynamically balanced, with

permanently lubricated bearings. The auto air swing vanes shall automatically swing up and down. Return air shall be filtered by

alloy. The coils shall be pressure tested at the factory. A condensate pan and drain shall be provided under the coil. The condensate

E. The controller shall consist of an On-Off switch, Cool/Dry-Fan selector, Thermostat setting, Timer Mode, High-Low fan speed, Auto

Vane selector, Test Run switching and Check Mode switching. Temperature changes shall be by 2°F increments. The control

system shall consist of two interconnected microprocessors. Wiring between the indoor unit and controller shall have no splices.

Manufacturer shall provide 2 conductor 18 Ga. stranded wire for connection to remote controller. Microprocessor located in the indoor unit shall have the capability of sensing return air temperature and indoor coil temperature, receiving and processing

commands from the wired controller, providing emergency operation and controlling the outdoor unit. Normal operation of the

hours of compressor run time. The microprocessor within the wall mounted remote controller shall provide automatic cooling,

A. Provide duct system, connections, air balancing dampers (opposed blade dampers where the take-off is in inaccessible ceiling),

exhaust systems. Provide access doors in ductwork wherever required for observation and maintenance of dampers.

remote controller provides individual system control in which one remote controller and one indoor unit are installed in the same

room. The system shall be capable of automatic restart after power failure. The system shall include self-diagnostics including total

display set point and room temperature, 24 hour on/off timer, automatic operation function display, and check mode for memory of

dampers, duct turns, housing, hinged sheet metal doors, and necessary removable access doors for the complete supply, return, and

B. Duct workmanship. Ductwork shall be constructed and erected in a workmanlike manner. Ducts shall be straight and smooth on the

inside with neatly finished joints, air-tight, and free from vibration. The internal ends of slip joints shall be made in the direction of

the air flow. The ducts shall be securely attached to the building construction in an approved manner. Changes in dimensions and

shape of the ducts shall be gradual. Duct sizes fall within the limiting dimensions indicated on the drawings unless otherwise

C. Duct turns. 90° elbows up to 18" wide and 45° elbows shall consist of an inside radius of not less than half the width of the duct, or

D. All dimensions shown on drawing are inside dimensions. Contractor shall make allowances for internal lining where called for on

E. All junctions, bends, turns, or elbows in all ducts shall have a large radius (centerline radius equal to 1-1/2 times duct width) in the

throat in order to minimize the frictional resistance. No short radius turn or junction will be allowed unless turning blades of

be furnished with air foil type duct vanes with 2-1/4" blade spacing. Shop fabricated duct vanes shall conform to details of the Sheet

most recent problem. Control system shall control the continued operation of the air sweep louvers, as well as provide on/off and

before shipment from the factory. The cabinet panel shall have provisions for a field installed filtered outside air intake. Branch

D. The evaporator coil shall be copper with aluminum fins with inner grooves. All tube joints shall be brazed with phoscopper or silver

means of a long-life filter to provide approximately 2,500 hours of use in a normal office environment before cleaning.

B. The unit shall have a manufacturer's warranty for a period of one (1) year from date of installation. The compressor shall have a

operating charge, Hi-Low pressure control, filter-dryer and all necessary relays and starters. The cabinet shall be 18 gauge

- approved design are provided. Single vane-turning vanes shall be provided for all square turns.
- F. Galvanized or aluminum angle iron strips shall be installed at points where ducts penetrate walls to close off the space between the wall opening and the duct.
- G. All fittings shall be tack welded on 3" centers and sealed with neoprene sealer to ensure that they do not leak more than 1% when transverse joints are sealed. Areas where galvanize has been burned off shall be painted. Branch takeoffs of main shall be 45 degree "wye" type where possible. Conical takeoffs allowed where "wye" won't fit. Paint the inside of ducts flat black, where visible through grilles, registers or diffusers.
- H. Fittings for round or oval spiral wound ductwork shall be installed per the manufacturer's instructions.

### 3.02 ROOFTOP UNITS(HVAC, MUA, COND, ETC)

- A. Mount rooftop units on 14" H curbs or as noted. Units will be mounted level. Where unit does not completely cover curb, provide galvanized metal cap for weatherproof seal. B. For units with compressors (including HVAC units, condensing units, kitchen condensing units, etc) install at least two layers of 1/2"
- gypboard layered with R13 batt insulation for sound attenuation within the roofcurb, beneath the compressor section. Where curbs have been provided over concrete pads, this is not required.
- C. For units with condensate drains, provide full size PVC traps. Route discharge so condensate freely drains away from unit. D. For units with water and/or drain connections, route up within unit or curb where possible.
- E. The roof opening beneath the unit will be closed up and sealed tight; caulk or silicone duct penetrations.
- F. Provide flat working surface adjacent to unit, as required by code, including handrails, access doors, etc.
- G. Label all units per the plans, or as directed by the Owner, using spray paint and 3" high stencils, or as directed by the building owner. 3.03 <u>GREASE PROTECTION SYSTEM</u>
- A. Provide a grease protection system around grease fans. This system shall be at least 15" wide, completely around the fan. The system shall be Facilitec G2 Grease Guard XD or equivalent. 3.04 AIR FILTERS

- A. Provide three complete sets of pleated, 30% efficient filters: construction phase, replacement just prior to balancing, and replacement set to the Owner. B. Air handlers are not intended to be used during construction for heating or cooling. The construction set is intended to protect the
- equipment during initial startup and preliminary testing
- C. Filters shall be installed in factory-assembled filter banks. Enclosure shall be provided with access doors, gaskets to provide air-tight seal, and duct or equipment connections. D. Filters shall be manufactured by Farr or American Air Filter.
- 3.05 CONDENSATE DRAIN
- A. Provide condensate drain & overflow piping or provide condensate drain piping & overflow float in condensate pan, interlocked with the blower. Size condensate piping as noted on plans, or to match equipment drain outlet size, whichever is larger.

### 3.06 REUSE OF EXISTING EQUIPMENT

- A. Existing HVAC rooftop equipment which is being reused as shown on the drawings must be inspected, tested, and cleaned. The inspecting and testing shall consist of:
- 1. Clean inside of units, including all condensing and evaporator coils, and dirt and dust accumulated in return area and on dampers. This includes removing debris throughout.
- 2. Test economizer for proper operation including complete range of motion.
- 3. Check blower(s) mounting, belts, and bearings. Lubricate bearings and replace belts as required.
- 4. Check refrigeration levels and replace as necessary. Repair any leaks to refrigeration system. 5. Check furnace for cracks and rust. Check operating, high limit protection, fan interlock.
- 6. Check wiring, relays, fuses circuit board, and contactors. Repair, reconnect, and re-support as required. Brightly clean any questionable connections.
- 7. Clean drain pans, condensate traps, and piping.
- 8. Remove abandoned components on roof such as compressors, refrigeration canisters, fan belts, etc
- 9. Test performance: refrigerant entering/discharge pressures; temperature drop across coil(s); temperature rise across furnace. B. Provide an estimate to the owner for the cost of repairing any significant damaged components.

### 3.07 SPECIAL DUCT SYSTEMS

- A. Kitchen:
  - 1. Kitchen exhaust duct system shall comply with NFPA-96, and ASTM std 2336. Slope at a minimum of 1/4" per foot toward the hood to provide for drainage; for horizontal runs in excess of 75', slope at 1" per foot as required by code. Provide for expansion of 2.2"/10 feet. Provide a cleanout at each change of direction and at each floor. Cleanout door shall be tight fitting, gasketed, constructed to the standard as the ductwork, listed for the use.
  - 2. Duct from kitchen hood shall be routed in a code-approved, fire-rated chase. Provide access door at each cleanout. 3. Supports shall be non-combustible, rigid and securely attached to structure, designed for gravity and seismic loads. Fasteners shall not penetrate the duct wall.
  - 4. Paint exterior welded black steel with exterior grade paint, to match adjacent walls, or flat black.
  - 5. Ducts exposed to view in the restaurant shall be stainless steel.
  - 6. Ducts shall be installed in rated shafts, or wrapped with ductwrap. Ductwrap shall be installed in strict conformance with manufacturer's instructions, providing pins, sealing tape, through-penetration materials, access door protection, bands, packing materials, etc.

### 3.08 DUCTWORK TESTING

A. If leakage in excess of 5% of the system design flow is indicated after a balance and adjustment, reseal to eliminate excess leakage. Replace defective material or workmanship at the Contractor's expense and test until the same has met the approval of the Engineer. B. All ductwork operating at static pressure in excess of 3" W.G. and exterior ductwork shall be leak-tested per SMACNA standards. A minimum 25% of all ductwork shall be tested and the maximum permitted leakage shall be LMAX = CLP0.65.



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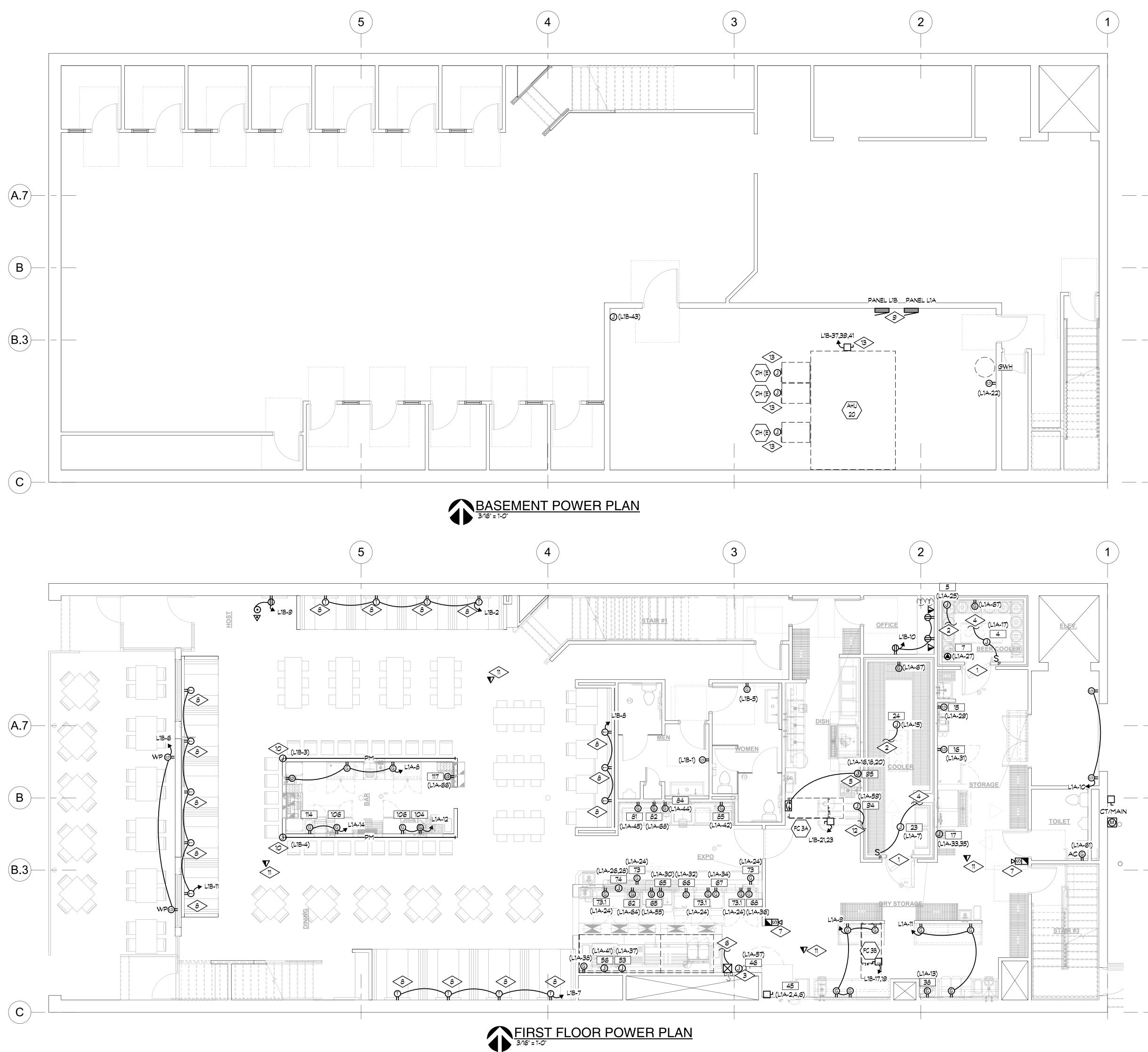


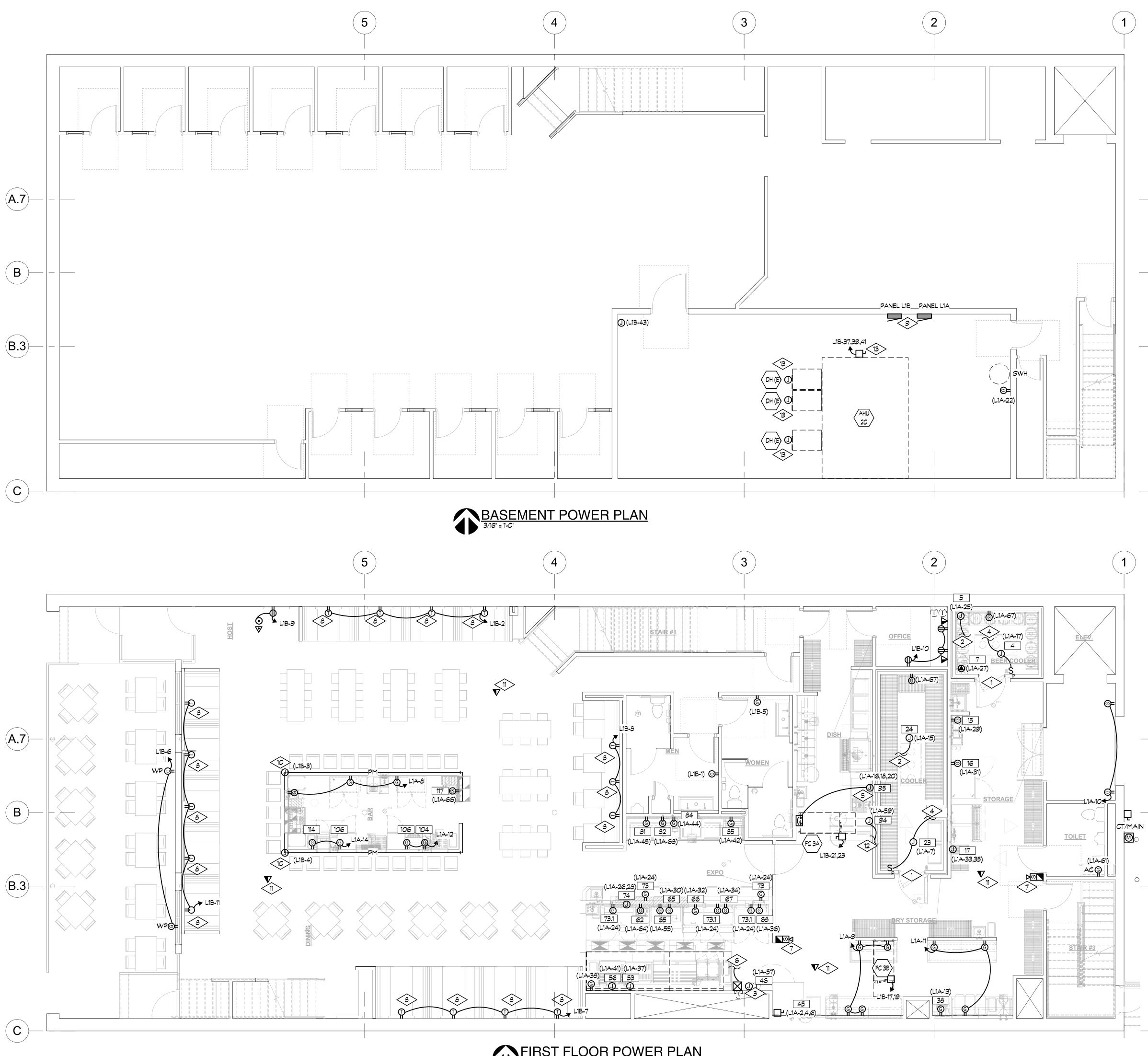
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**MECHANICAL** SPECIFICATIONS

**M5.**1





## **GENERAL NOTES**

- A. ELECTRICAL CONDUITS, WATER, SEWER AND GAS LINES MUST FIT WITHIN WALLS. CONFLICTS WITH OTHER TRADES MUST BE COORDINATED OR WORK WILL BE REDONE.
- B. GFCI PROTECTION: BASIS OF DESIGN IS GFCI PROTECTION PROVIDED AT PANEL. EC MAY PROVIDE ALTERNATE PRICING WHERE PERMITTED BY CODE TO 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.
- 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

- PROVIDE EXPANSION JOINTS AND INTERIOR AND EXTERIOR MOISTURE SEALS FOR ALL CONDUITS ENTERING WALK-IN COOLERS AND FREEZER PER NEC 300.7 AND MANUFACTURER'S RECOMMENDATIONS.
- 2. PROVIDE (5-#12)1/2"C (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 CIRCUIT TO WALK-IN COOLER / FREEZER LIGHTS VIA TOGGLE SWITCH WITH PILOT LIGHT MOUNTED ON LATCH SIDE OF DOOR. SEE THE FIRST FLOOR LIGHTING PLAN ON SHEET EX.X FOR FIXTURE TYPE AND LOCATION.
- 5. DISH MACHINE; PROVIDE FLUSH MOUNTED CIRCUIT BREAKER . SEE KITCHEN EQUIPMENT SCHEDULE FOR SIZE. MOUNT AS HIGH AS POSSIBLE IN WALL. FIELD VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- 6. EXTEND CIRCUITS FROM PRE-WIRED HOOD TERMINAL BOX UP TO KEF AND KMUA AS SHOWN OR AS REQUIRED. FIELD VERIFY AND COORDINATE ALL FAN, FIRE SYSTEM AND SHUTDOWN CONTROL CONNECTION REQUIREMENTS.
- 7. ANSUL PULL STATION. COORDINATE REQUIREMENTS WITH HOOD PROVIDER.
- 8. COMBINATION USB CHARGER WITH TAMPER RESISTANT 125V, 20 AMP DUPLEX RECEPTACLE MOUNTED AT BACK OF BOOTH 36" ABOVE THE FLOOR PLATFORM, ABOVE THE TABLE TOP, MOUNTED HORIZONTALLY, CENTERED ON THE TABLE TOP, OR BELOW COUNTERTOP AT 36" 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)."
- 9. MAINTAIN MINIMUM WORKING SPACE IN FRONT AND ABOVE ALL ELECTRICAL PANELS PER NEC 110.26 AS REQUIRED.
- 10. PROVIDE PLUG MOLD (LEGRAND PLUGMOLD -AL20GB518TR) ALONG MILLWORK AS SHOWN, ALTERNATE WITH USB/RECEPTACLE EVERY 18" ALONG LENGTH INDICATED (2FT, 3FT, 5FT, 6FT SECTIONS).
- 11. PROVIDE CEILING POWER/DATA FOR WIRELESS ACCESS POINT IN APPROXIMATE LOCATION SHOWN. WAP EQUIPMENT PROVIDED BY TENANT, INSTALLED BY LV CONTRACTOR.
- 12. EXTEND POWER TO ROOFTOP EXHAUST FAN DEF. PROVIDE INTERLOCK W/ DISH MACHINE. EXTEND CKT TO DEF.
- 13. FIELD VERIFY AND WRING OUT EXISTING MECHANICAL EQUIPMENT CIRCUITS AND REWIRE TO NEW ELECTRICAL PANEL "L1B"



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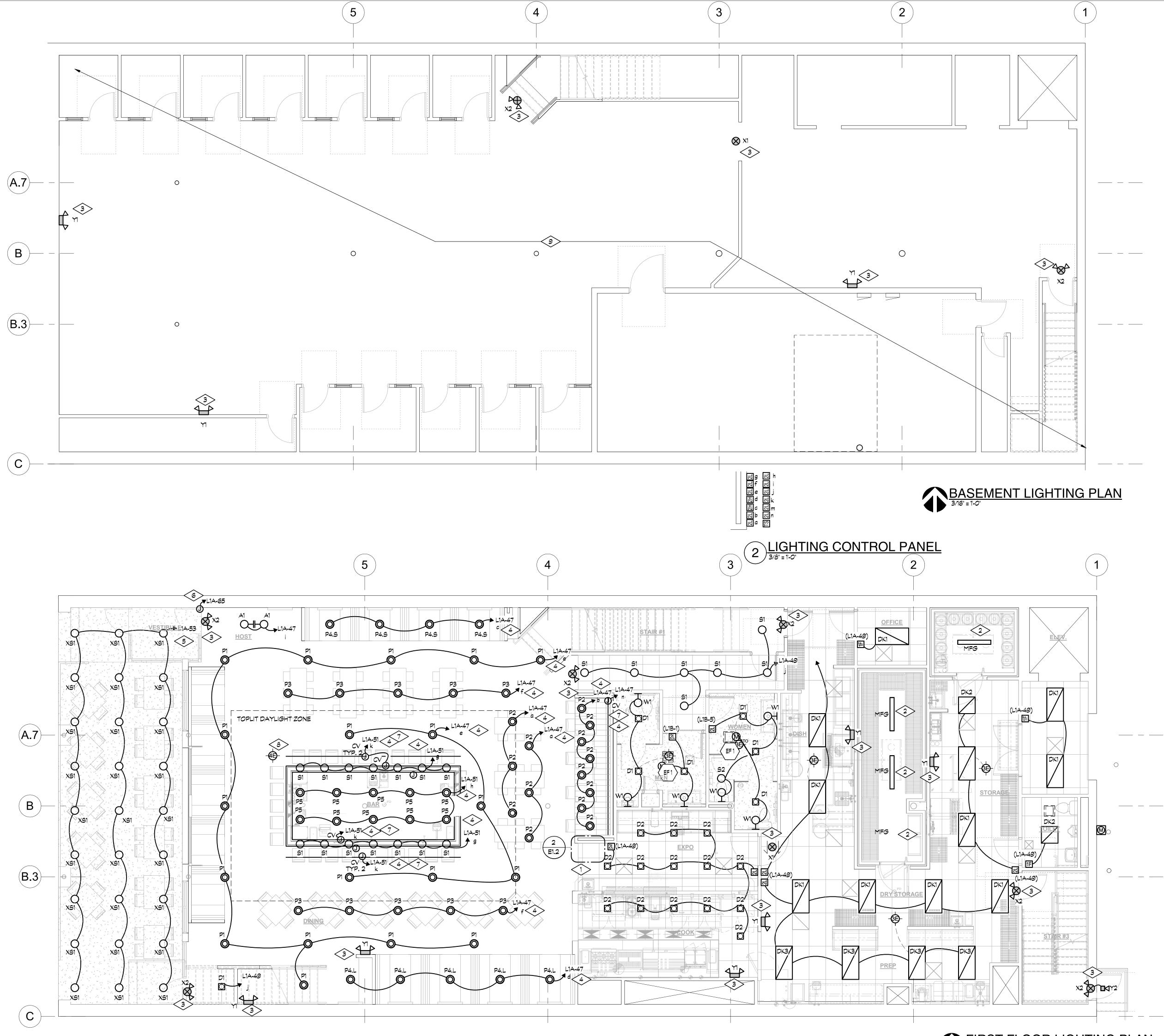
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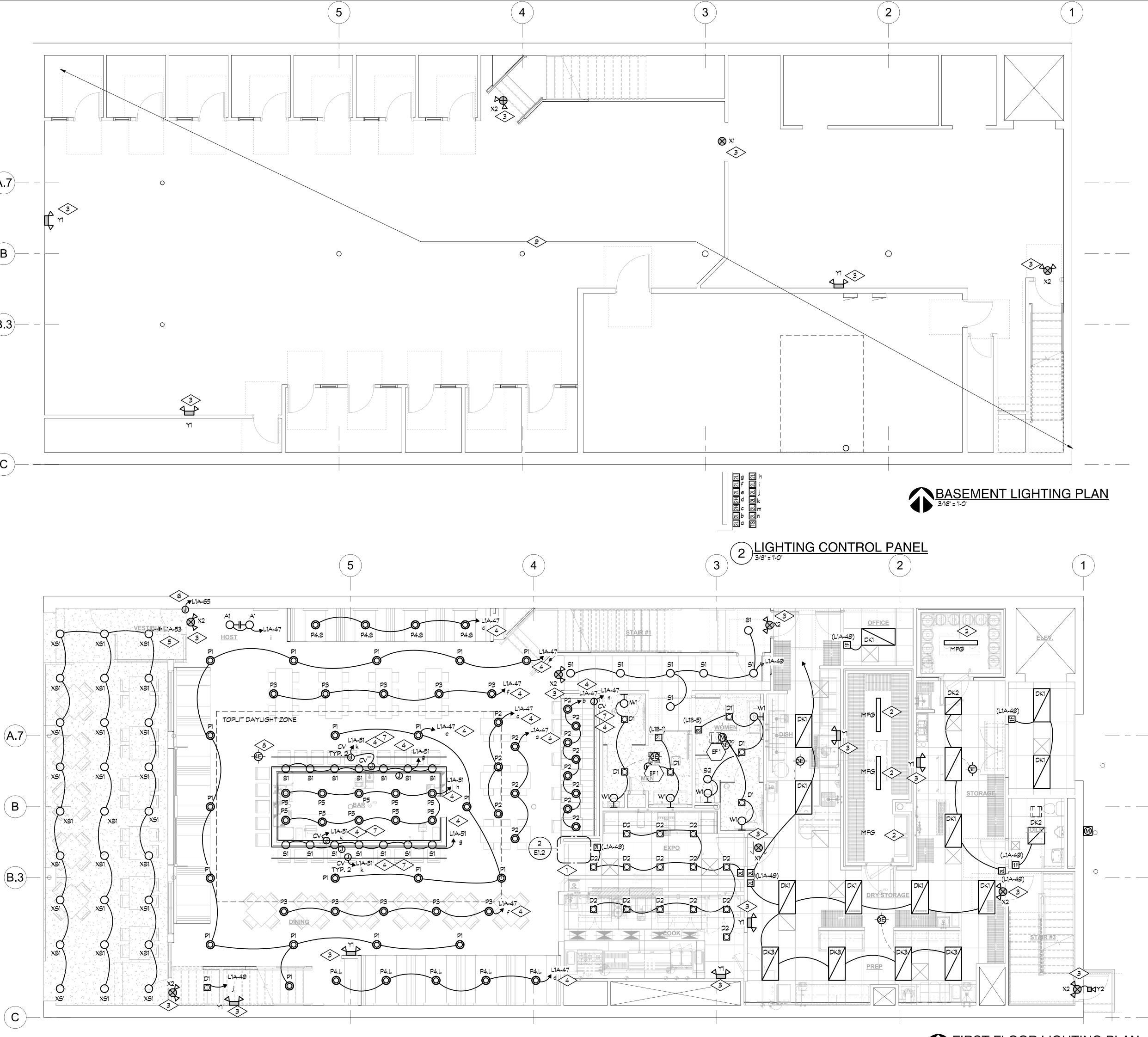
**BASEMENT &** FIRST FLOOR

POWER PLAN

SHEET TITLE:









## **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. 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.
- C. ALL EMERGENCY EGRESS LIGHTING SHALL COMPLY WITH 2021 - IBC 1008.2.1
- D. ALL EXTERIOR LIGHTING FIXTURES SHALL BE INSTALLED, SHIELDED AND/OR CONTROLLED IN COMPLIANCE WITH LOCAL ORDINANCES.
- E. ALL EXTERIOR ELECTRICAL COMPONENTS SHALL MEET ALL NEC INSTALLATION AND LABELING REQUIREMENTS FOR WET LOCATIONS.
- F. COORDINATE REQUIRED BLOCKING FOR ADDED CEILING FANS WITH LANDLORD'S REPRESENTATIVE.
- G. LIGHTING SYSTEM FUNCTIONALITY TESTING/COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH IECC 408.3, ADDITIONAL LOCAL JURISDICTIONAL REQUIREMENTS TO BE CONFIRMED WITH BUILDING OFFICIAL PRIOR TO COMPLETION OF PROJECT.

## LIGHTING CONTROL NOTES

- 1. LIGHTING DESIGN, LAYOUT AND FIXTURE PLACEMENT SHOWN FOR SCHEMATIC PURPOSES AND DESIGN INTENT. E.C. SHALL FIELD VERIFY AND COORDINATE EXACT LOCATIONS, LAYOUT, CONFIGURATION AND CONNECTION REQUIREMENTS. E.C. TO PROVIDE LABELING OF ALL FIXTURES AND CONTROLS FURING ROUGH-IN.
- 2. LIGHTING CONTROL SYSTEM BASIS OF DESIGN TO BE ACUITY NLIGHT, COORDINATE MANUAL DIMMER LOCATIONS AND CONFIGURATION WITH TENANT AND ARCHITECT.
- A. DIMMERS AND SWITCHES SHALL BE ACUITY nPODMA, PROVIDE WITH POWER/SLAVE PACKS (nPP16/nSP16) AS REQUIRED.
- B. COORDINATE DIMMER TYPE (0-10V, ELV, MLV, TRIAC, ETC.) AND PROVIDE DIMMER PACK FOR FIXTURE CONTROL ZONE. VERIFY CAPACITY AND DIMMER COMPATABILITY WITH LIGHTING FIXTURE MANUFACTURER.
- C. WHERE MULTIPLE DIMMERS ARE PROVIDED AT SAME CONTROL LOCATION, EACH DIMMER SHALL BE PROVIDED WITH DEDICATED BOX, KEEP MINIMUM SPACING SEPERATIONS AS RECOMENDED BY MANUFACTURER.
- D. WIRING DIAGRAM ARE FOR REFERENCE ONLY, E.C. TO PROVIDE COMPLETE SHOP DRAWINGS FROM CONTROLS MANUFACTURER WITH FINAL DEVICE INFORMATION, LOCATIONS, LAYOUT AND SPECIFICATIONS FOR REVIEW.
- E. EACH DIMMER SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE FOR IDENTIFICATION OF ZONE. E.C. TO COORDINATE NAMING CONVENTION OF ZONES WITH OWNER.
- 3. INSTALLATION AND OPERATION OF DIMMING DEVICES AND FIXTURES SHALL CARRY A MINIMUM OF 5 YEAR WARRANTY. PROVIDE OWNER WITH APPLICABLE COMPLETED WARRANTY FORMS FOR SUBMISSION AT COMPLETION OF PROJECT.
- 4. PROVIDE ALTERNATE PRICING FOR ILIGHT AIR WIRELESS CONTROLS SYSTEM IN LIEU OF BASE ILIGHT WIRED CONTROLS. CONFIRM FINAL ACCEPTANCE OF LIGHTING CONTROL SYSTEM WITH OWNER PRIOR TO COMMENCING WORK. WHERE FEASIBLE AND AVAILABLE, LIGHTING FIXTURES WITH INTEGRATED COMPATIBLE WIRELESS CONTROLS MAY BE SUBSTITUTED, FINAL ACCEPTANCE BY OWNER.

## DETAIL NOTES THIS SHEET

- 1. PROPOSED LOCATION FOR LIGHTING CONTROL PANEL AND TIMECLOCK.
- 2. EXTEND CIRCUIT TO WALK-IN COOLER / FREEZER LIGHTS VIA TOGGLE SWITCH WITH PILOT LIGHT MOUNTED ON LATCH SIDE OF DOOR. SEE THE FIRST FLOOR LIGHTING PLAN ON SHEET EX.X FOR FIXTURE TYPE AND LOCATION.
- 3. EXTEND EMERGENCY/EXIT LIGHTING TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
- 4. LIGHTING IN THIS AREA CONTROLLED VIA TIMECLOCK. SEE LIGHTING CONTROL PANEL. COORDINATE OVERRIDE SWITCH LOCATION AND HOURS OF OPERATION WITH TENANT.
- 5. EXTERIOR LIGHTING TO BE CONTROLLED VIA TIMECLOCK. COORDINATE OVERRIDE SWITCH LOCATION AND HOURS OF OPERATION WITH TENANT.
- 6. PROVIDE EXTERIOR JUNCTION BOX FOR FUTURE SIGNAGE, HOMERUN CIRCUIT VIA TIMECLOCK.
- 7. PROVIDE TAPE LIGHTS COORDINATED WITH CASEWORK/FURNITURE. COORDINATE EXACT LENGTH AND LOCATION WITH ARCHITECT/OWNER. RELOCATE OR ADD ADDITIONAL JBOXES AS NEEDED PER FIXTURE LENGTH REQUIREMENTS AND MANUFACTURER'S DIRECTIONS.
- 8. LIGHTS WITHIN INDICATED DAYLIGHT ZONE TO BE UNDER CONTROL OF PHOTOCELL.
- 9. EXISTING LIGHTING AND CONTROLS TO REMAIN.



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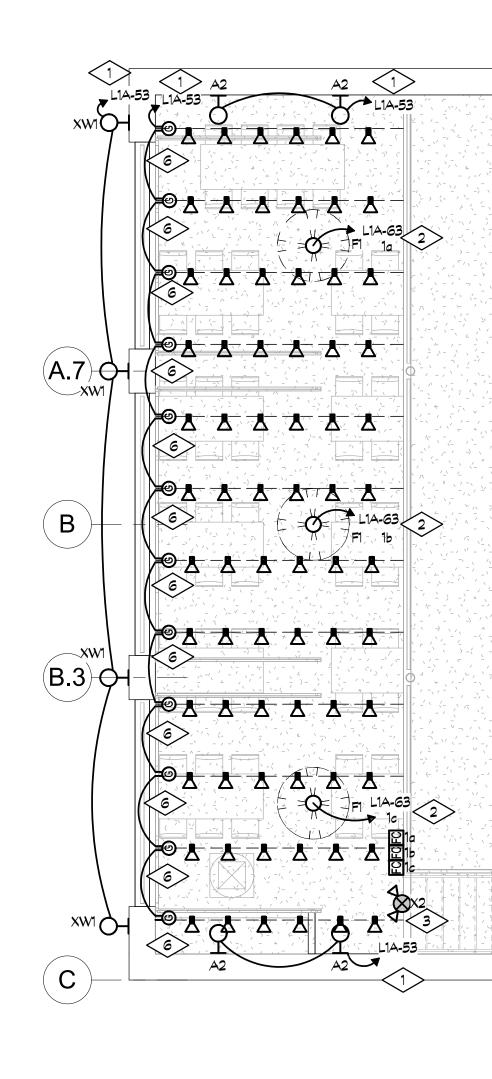
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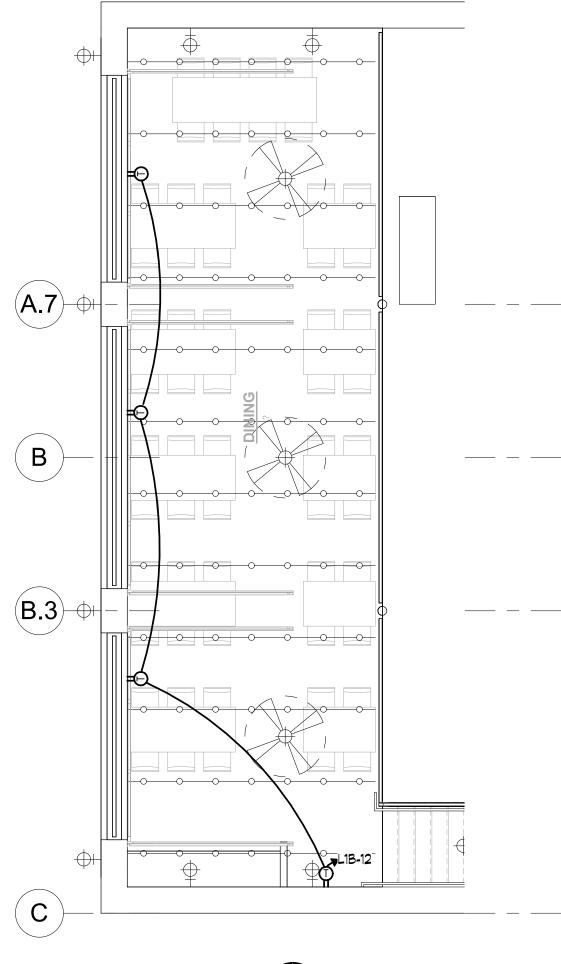
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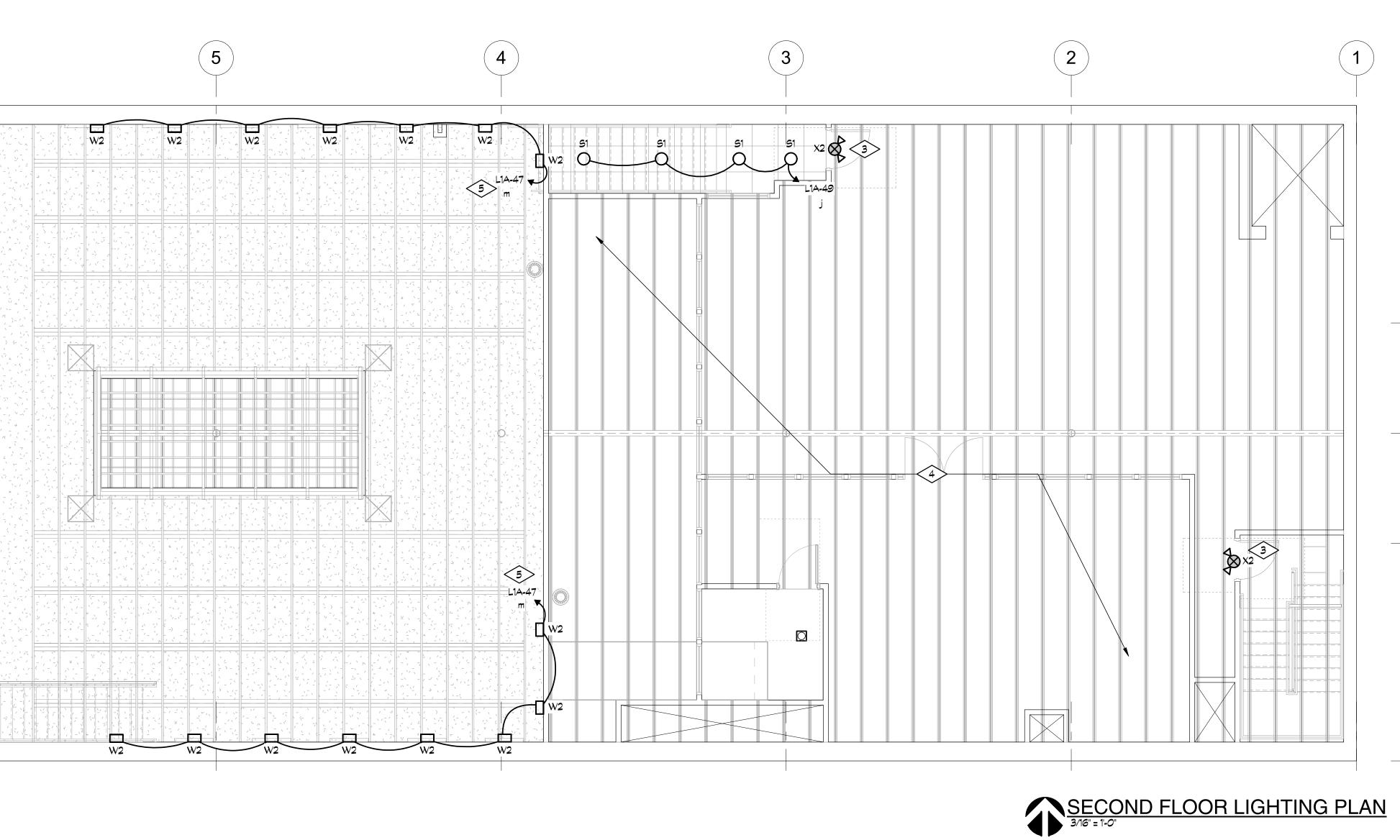
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SHEET TITLE: **BASEMENT &** FIRST FLOOR LIGHTING PLAN









## DETAIL NOTES THIS SHEET

- 1. EXTERIOR LIGHTING TO BE CONTROLLED VIA TIMECLOCK. COORDINATE OVERRIDE SWITCH LOCATION AND HOURS OF OPERATION WITH TENANT.
- 2. COORDINATE FAN AND FAN CONTROL SETUP WITH MANUFACTURER.
- 3. EXTEND EMERGENCY/EXIT LIGHTING TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
- 4. EXISTING LIGHTING TO REMAIN.
- 5. LIGHTING TO BE CONTROLLED VIA TIMECLOCK. SEE LIGHTING CONTROL ON E1.2.
- 6. PROVIDE RECEPTACLES FOR STRING LIGHTS. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.



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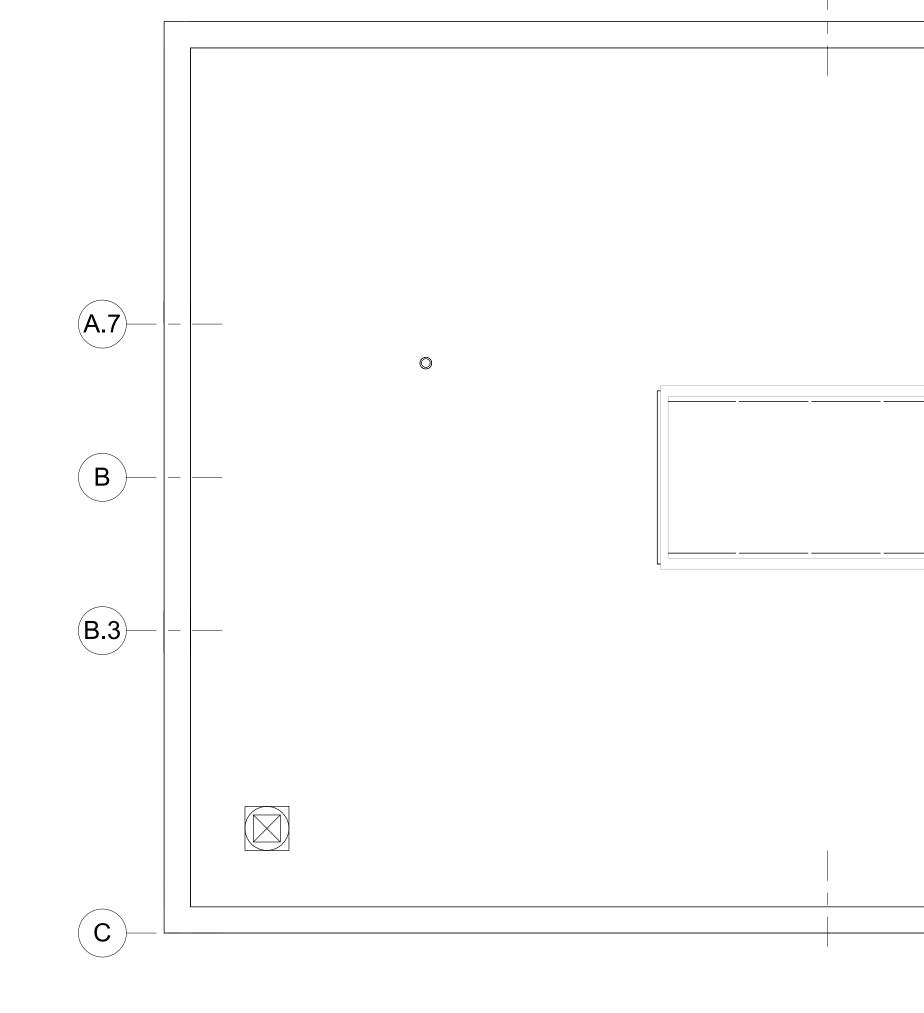
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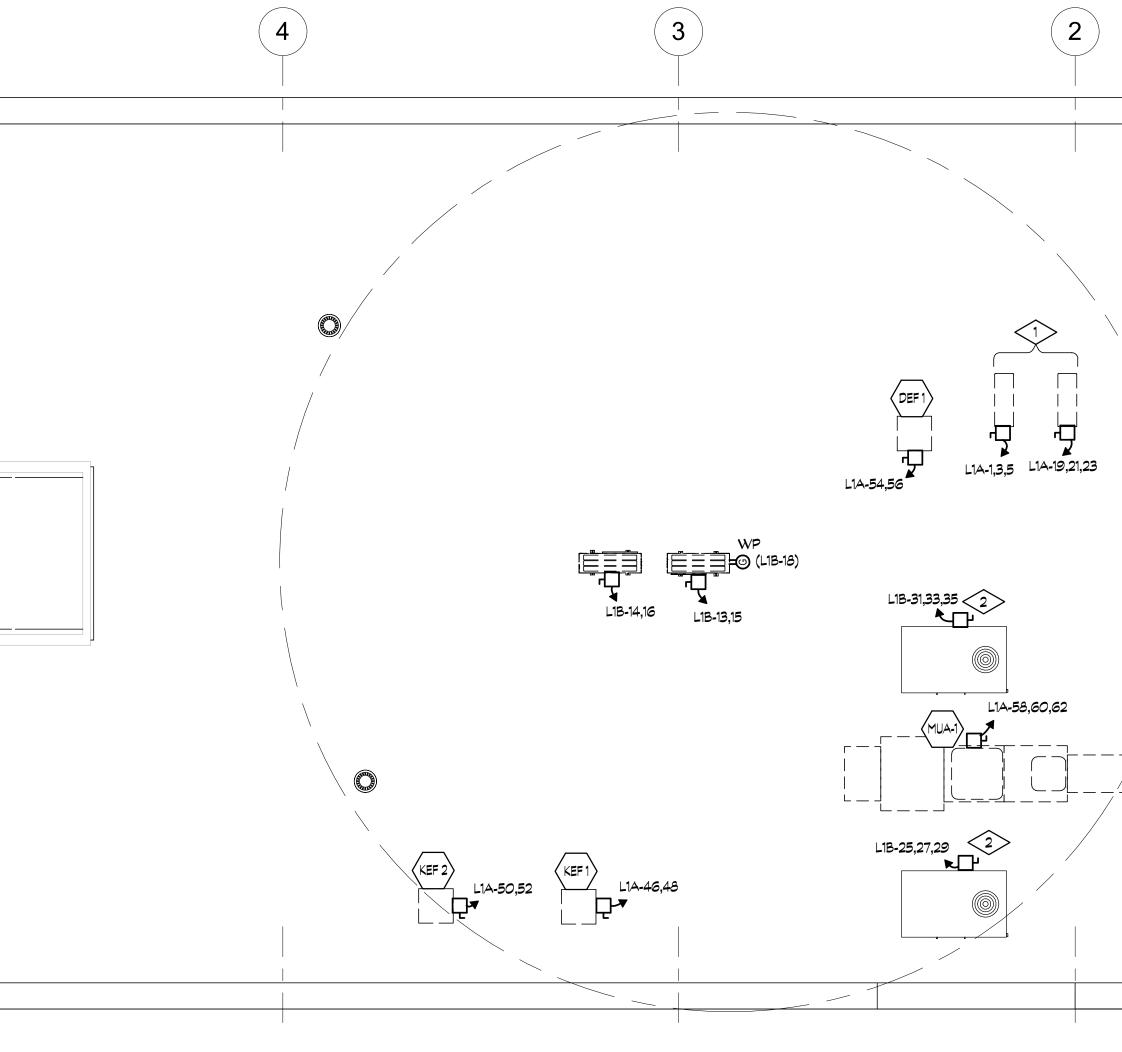


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# ROOF ELECTRICAL PLAN



## DETAIL NOTES THIS SHEET

1. WALK IN COOLER/BEER COOLER CONDENSING UNITS SHOWN FOR COORDINATION. COORDINATE EXACT LOCATION, WIRING AND LINESET LENGTH WITH FINAL LOCATION IN FIELD.

2. EXISTING AC UNITS TO REMAIN, WRING OUT EXISTING CIRCUITS AND REWIRE TO NEW ELECTRICAL PANEL.

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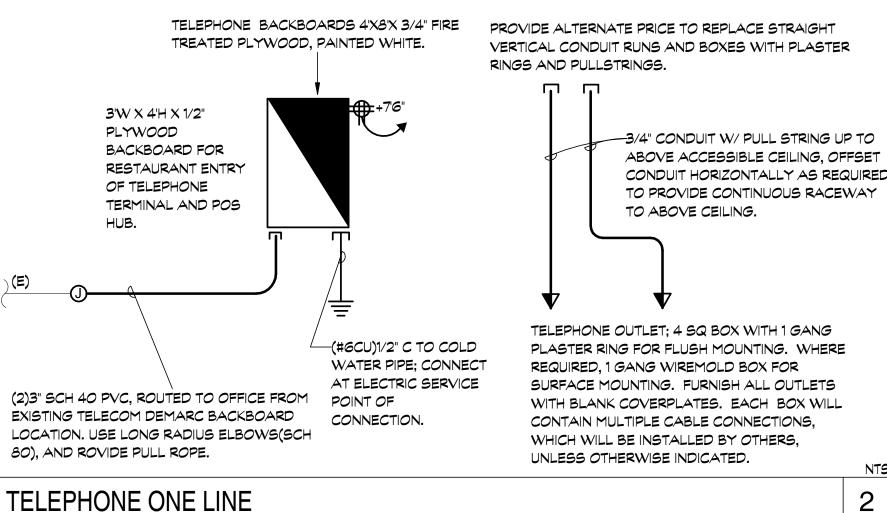


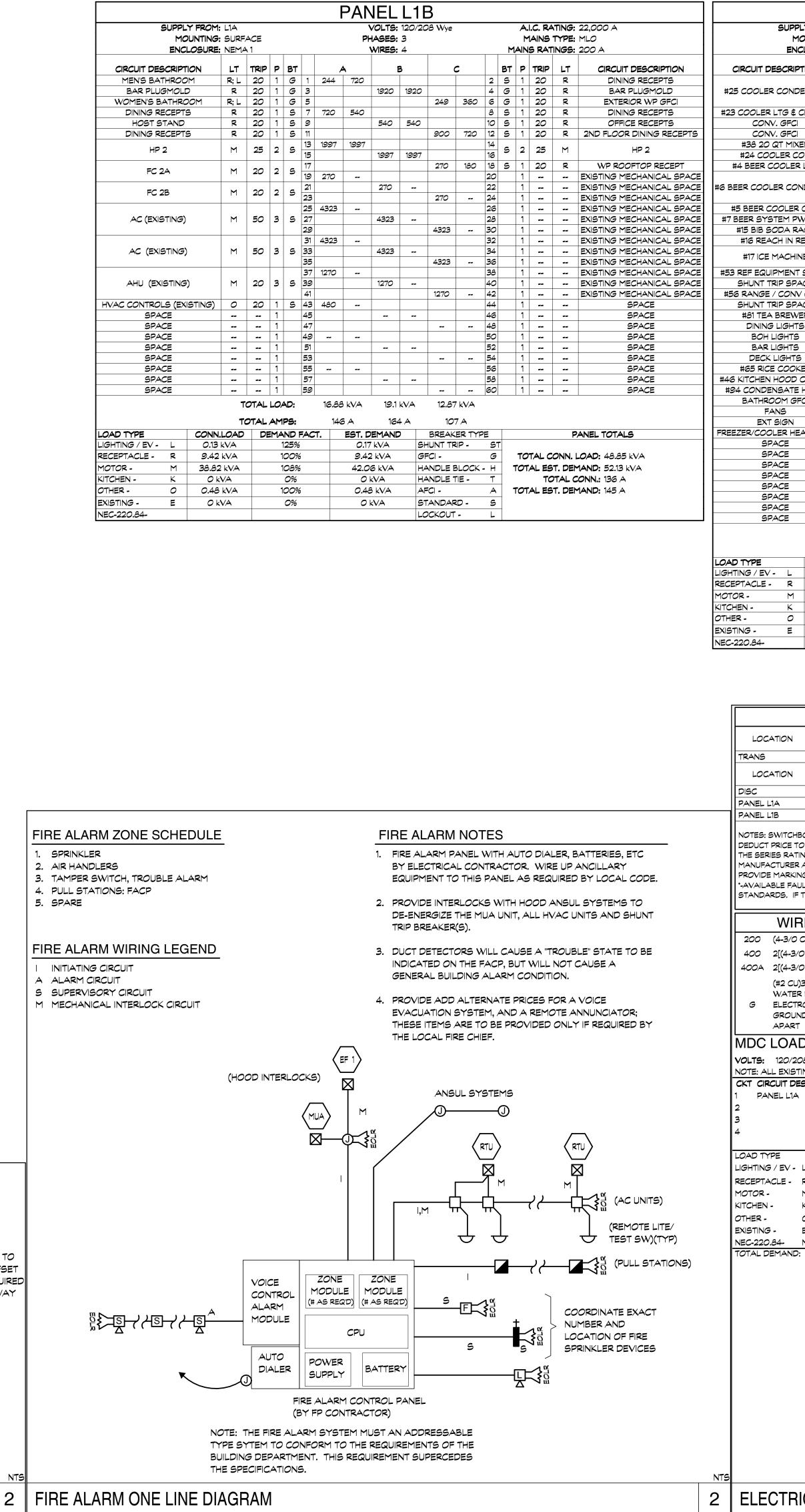
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SHEET TITLE: ROOF ELECTRICAL PLAN

E3.1

	LEGEND
	MAIN DISTRIBUTION CENTER
	ELECTRIC SERVICE METER
	TRANSFORMER CONCEALED CIRCUIT
	UNDERFLOOR /
— — — — WM—	EXPOSED CIRCUIT WIREMOLD (SURFACE WIREWAY)
	PLUGMOLD
	HOMERUN TO PANELBOARD (ONE ARROW / CKT,
	PNL & CKT #'S SHOWN)
(44,46)	CIRCUIT NUMBER(S) FOR SPECIFIED PANEL
	CONDUIT TURNS DOWN JUNCTION BOX / CARD READER
®	PORCELAIN LAMP HOLDER (PC: PULL CHAIN)
Õ	(PC: PULL CHAIN) LIGHT FIXTURE: SURFACE MOUNTED
Ø	RECESSED LIGHT FIXTURE
Ю	WALL MOUNTED LIGHT FIXTURE
$\overline{\otimes}$	EXIT LIGHT: DIRECTIONAL ARROW
	BATTERY PACK
0	SURFACE FLUORESCENT FIXTURE
	RECESSED FLUORESCENT FIXTURE
ЭЧ	SINGLE OUTLET: C-CLOCK (+7'0")
<del>e</del>	DUPLEX RECEPTACLE IG: ISOLATED GROUND
<b>\</b>	CEILING DUPLEX RECEPTACLE
G= 8=	DUPLEX RECEPTACLE - GFCI DUPLEX RECEPTACLE - GFCI BREAKER
<b>()=</b>	DUPLEX RECEPTACLE - TAMPER RESIST
<b>+</b>	SPLIT WIRE DUPLEX
<b>₽</b>	QUADRAPLEX (DOUBLE DUPLEX)
ŚP	COMB. SWITCH / RECEPTACLE
0	FLOOR MOUNTED RECEPTACLE
<ul> <li><b>♦</b></li> </ul>	SPECIAL PURPOSE (AS NOTED) TELEVISION OUTLET
v M	MOTOR OUTLET
	sto - switched thermal overload TELEPHONE TERMINAL
▼	TELEPHONE OUTLET
$\nabla$	FLOOR MTD. TELEPHONE OUTLET
⊽c ▼	COMPUTER OUTLET COMB. TELE/COMPUTER OUTLET
v S	TOGGLE SWITCH
0	a-switching p-pilot light 2-2 pole k-keyed
	3-3 way to-thermal overload 4-4 way t-timer
#	WALL MOUNTED LIGHTING CONTROL DEVICE RE: LIGHTING CONTROL DEVICE SCHEDULE
	CEILING MOUNTED LIGHTING CONTROL DEVICE
Ψ	RE: LIGHTING CONTROL DEVICE SCHEDULE
TS (PE)	TIME SWITCH
$\bigcirc$	
⊡ エ	PUSH-BUTTON STATION
Ċ	SAFETY SWITCH
	MOTOR STARTER / LIGHTING CONTACTOR
തി	COMBINATION MOTOR STARTER
R	RELAY
	FIRE ALARM CONTROL PANEL
$\diamond$	
	PULL STATION
	HORN
	HORN / LIGHT COMBINATION
S⊲	HORN / STROBE
S	STROBE
ഫ	BELL
	OS & Y VALVE
	FLOW SWITCH
E	
•	ROOM DETECTOR (SMOKE)
• • • <sub>т</sub>	
•	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR
• • <sub>T</sub>	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL)
	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR REMOTE INDICATING LIGHT / TEST SWITCH DOOR HOLDER
• • <sub>T</sub>	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR REMOTE INDICATING LIGHT / TEST SWITCH DOOR HOLDER CHIME
	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR REMOTE INDICATING LIGHT / TEST SWITCH DOOR HOLDER CHIME FUSED SWITCH
╴╷╓┫∎घݤ╠	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR REMOTE INDICATING LIGHT / TEST SWITCH DOOR HOLDER CHIME FUSED SWITCH CIRCUIT BREAKER
╴・╷≞	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR REMOTE INDICATING LIGHT / TEST SWITCH DOOR HOLDER CHIME FUSED SWITCH
╴・╷ ≞ Ҁ ■ ᅛ ᄼ (。	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR REMOTE INDICATING LIGHT / TEST SWITCH DOOR HOLDER CHIME FUSED SWITCH CIRCUIT BREAKER
	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR REMOTE INDICATING LIGHT / TEST SWITCH DOOR HOLDER CHIME FUSED SWITCH CIRCUIT BREAKER GROUND CONNECTOR
╴・┐ 쁩	ROOM DETECTOR (SMOKE) ROOM DETECTOR (THERMAL) DUCT DETECTOR REMOTE INDICATING LIGHT / TEST SWITCH DOOR HOLDER CHIME FUSED SWITCH CIRCUIT BREAKER GROUND CONNECTOR MECHANICAL EQUIPMENT
□ ◇ └ └ ♡ ◇ □ > > < d ■ b > < d ↓ / ) ◇ □	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
	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





								PAN	JFI	11	Δ							
	FROM:	MDC									208 Wye				A.	I.C. RA	TING:	22,000 A
	NTING:		ACE						ASES:							IAINS -		-
ENCLO									WIRES:					м				400 A
			1							-					-1111			
ESCRIPTION	N	LT	TRIP	P	BT			A	1	В		¢		BT	P	TRIP	LT	CIRCUIT DESCRIPTION
						1	2882	6245					2					
R CONDENS	BER	К	35	3	S	3			2882	624	5		4	G	3	70	Κ	#45 COMBI OVEN
						5					2882	6245	6					
LTG & CNT	RLS	К	20	1	G	7	960	540					8	G	1	20	R	BAR RECEPTS
V. GFCI		R	20	1	G	9			720	360	)		10	G	1	20	R	CONV. GFCI
V. GFCI		R	20	1	G	11					540	936	12	G	1	20	K	#104/#106 WASHER/REF
QT MIXER		К	20	1	G	13	720	288					14	G	1	20	K	#106 #114 UC FRZR / POS
OLER COIL		К	20	1	G	15			1200	5884	4		16	-				
COOLER LTO	Э	Κ	20	1	G	17					960	5884	18	S	3	65	K	#95 DISH MACHINE
						19	2882	5884					20					
LER CONDEI	NSER	Κ	35	3	S	21			2882	500	>		22	S	1	20	R	GWH/CP
						23					2882	900	24	G	1	20	K	#73 & 73.1 POS / PRINTERS
COOLER COI		K	20	1	S	25	960	1220					26	G	2	20	К	#74 HEAT LAMP
STEM PWR F	-	K	20	1	G	27			1884	1220			28	-	_			
BODA RACK		K	20	1	G	29					1800	1560	30	G	1	20	K	#65 RICE COOKER
CH IN REF		Κ	20	1	G	31	1044	1200					32	G	1	20	K	#68 WORKTOP FREEZER
MACHINE		Κ	20	2	G	33			1373	480			34	G	1	20	K	#67 MEGA TOP REF
	4.5.10					35		-			1373	432	36	G	1	20	<u> </u>	#68 WORKTOP FREEZER
IPMENT STA	AND	К	20	1	ST	37	360	180					38	ST	1	20	R	
RIP SPACE	/ <b></b> \			1		39							40		1			SHUNT TRIP SPACE
/ CONV OV	/EN	K	20	1	ST	41		-			648	780	42	G	1	20	<u> </u>	#85 NACHO CHIP WARMER
RIP SPACE					_	43		1200	1000				44	G	1	20	K	#84 SODA/ICE DISPENSER
BREWER		K	35	1	G	45			1680	960		000	46	S	2	20	Μ	KEF 1
JUGHTS			20	1	S	47	740	1440			1193	960	48 50					
			20		S	49 51	743	1440	070	1440	_		52	S	2	20	Μ	KEF 2
LIGHTS LIGHTS			20 20	1	s G	53			973	1440	746	828	52					
E COOKER		K	20	1	G	55	1560	828			/40	020	56	S	2	20	Μ	DEF 1
E COURER I HOOD CNT		ĸ	20	1	s	57	1560	020	1584	<i>9</i> 13			58					
ENSATE HOO		ĸ	20	1	5	59			1504	90	1584	913	60	s	3	20	Μ	MUA-1
DOM GFCI		R	20	1	S	61	180	913					62	_		20	11	
ANS			20	1		63			246	360	,		64	G	1	20	К	#62 SALAD PREP REF
SIGN		-	20	1	G	65			20		500	1200	66	-	1	20	K	#117 SODA GUN
DLER HEAT 1	TAPE	R	20	1	s	67	360	1344					68	G	1	20	K	#82 TEA BREWER
PACE				1		69							70	-	1			SPACE
PACE				1		71							72		1			SPACE
PACE				1		73							74		1			SPACE
PACE				1		75							76		1			SPACE
PACE				1		77							78		1			SPACE
PACE				1		79		16884					80				<b>n</b> .	
PACE				1		81				1910	1		82	S	3	100	R; L;	PANEL LIB
PACE				1		83						12866	84	1			<i>O</i> ; M	
		7/	OTAL		40.		50 4	32 kVA	52.89	2 KV/A	486	1 kVA		•		I		
		TC	TAL.					26 A	44	4 A	40	5A						
	CONN.L		DE		ND F		T.		EMAND			ER TYP	-				P	ANEL TOTALS
'- L	4.53 k	VA			125%			560	5 kVA	4	SHUNT TR		S	TI				

			DEMAND FACT.	EST. DEMAND		-	
∨ -	L	4.53 kVA	125%	5.66 kVA	SHUNT TRIP -	ST	
-	R	12.8 kVA	89%	11.4 kVA	GFCI -	G	TC
	Μ	48.01 kVA	107%	51.25 kVA	HANDLE BLOCK -	н	TO
	Κ	86.49 kVA	65%	56.22 kVA	HANDLE TIE -	Т	
	0	0.48 kVA	100%	0.48 kVA	AFCI -	A	TO
	Ε	0 kVA	0%	0 kVA	STANDARD -	S	
					LOCKOUT -	L	

TOTAL CONN. LOAD:	152.31 kVA
TOTAL EST. DEMAND:	
TOTAL CONN.:	423 A
TOTAL EST. DEMAND:	347 A

SHORT CIRCUIT CALCULATION

				C							IN			
ATION			9	BECO	ONDARY	VOLTAGE		Ø	KVA	%Z-*	lsc AVAIL.		Σ	lsc FAULT
	Ι	sc			208	3		3	150	1.6	416		62.5	26000
ATION			VOLT.	Ø	WIRE TYPE	CONDUIT TYPE	WIRE SIZE	#OF RUNS	LENGTH	"C" VALUE	lsc AVAIL.	Ψ	Σ	lsc FAULT
	Ι	1	208	ω	CU	NON	3/0	2	15	13923	26000	0.117	0.896	23284
14	Ι	2	208	З	CU	MET	3/0	2	70	12843	23284	0.528	0.654	15235
1B	Ι	3	208	3	CU	MET	3/0	1	5	12843	15235	0.049	0.953	14518

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 OCPD 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 MARKING ON ALL SERVICE EQUIPMENT WITH MAXIMUM CALCULATED FAULT CURRENT PER NEC 110.24 \*-AVAILABLE FAULT CURRENT AT TRANSFORMER CACLUCATED BASED ON %Z FROM UTILITY COMPANY DESIGN STANDARDS. IF TRANSFORMER SIZE IS OTHER THAN SHOWN, NOTIFY ENGINEER.

200 (4-3/0 CU, #6 CU G)2"C 400 2[(4-3/0 CU, #3 CU G)2"C] 400A 2[(4-3/0 CU)2"C] (#2 CU)3/4"C TO BLDG STEEL, COLD WATER PIPE, CONCRETE ENCASED G ELECTRODE; 2[(#6CU)1/2"C] TO DRIVEN;

> GROUND RODS NOT LESS THAN 6'0 APART

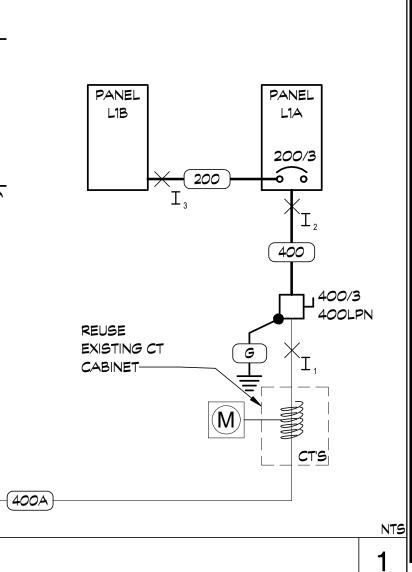
### MDC LOAD SUMMARY

**VOLTS:** 120/208 Wye PHASE: 3 WIRES: 4 NOTE: ALL EXISTING METER CALCULATED AT 125% PER NEC 220.87 CKT CIRCUIT DESCRIPTION

-OAD	AMPS
52.3 kVA	422.8 A

	TOTAL CONNECTED: 152.3 KVA								
Ĕ		CONN. LOAD	DEMAND FACT.	EST. DEMAND					
/ EV -	L	4.53 kVA	125%	5.66 kVA					
CLE -	R	12.8 kVA	89%	11.4 kVA					
	Μ	48.01 kVA	107%	51.25 kVA					
	К	86.49 kVA	65%	56.22 kVA					
	0	0.48 kVA	100%	0.48 kVA					
-	Е	O kVA	0%	O kVA					
34-	NC	O kVA	0%	O kVA					
MAN	):			125.02 kVA/347 A					

EXISTING TRANSFORMER





boulder engineering plumbing, mechanical and electrical 1717 15th Street Boulder, CO 80302

303.444.6038 phone 303.442.1172 fax staff@boulderengineering.com

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PROJECT No:	
	23086
ISSUE DATE:	
	09.21.2023
REVISIONS:	

SHEET TITLE:

ELECTRICAL **DETAILS &** SCHEDULES



## 2 ELECTRICAL ONE LINE DIAGRAM

		LIGHTING CONTROL DEV	<b>VICE SCH</b>	IEDULE	
KEY	MODE	DESCRIPTION	MOUNTING	MANUFACTURER/#	VOLT
1F	VACANCY / DIMMING	WALL SWITCH, VACANCY SENSOR, DUAL TECHNOLOGY, 0-10V DIMMING, 20' RANGE (POWERPACK REQUIRED; 11PP16 D)	WALL MOUNT	ACUITY NWSX PDT LV DX XX	LOW
2H	SWITCH	WALL SWITCH, ON/OFF (POWERPACK REQUIRED; nPP16)	WALL MOUNT	ACUITY nPODM XX	LOW
2L	SWITCH / DIMMING	WALL SWITCH, ON/OFF, DIMMING (POWERPACK REQUIRED; nPP16 D)	WALL MOUNT	ACUITY NPODM DX XX	LOW
3E	VACANCY	CEILING SENSOR, DUAL TECHNOLOGY, STANDARD RANGE (12' @ 9' AFF), 360° COVERAGE PATTERN, LOW VOLTAGE AUXILIARY RELAY	CEILING	ACUITY nCM PDT 9 AR RJB	LOW
4E	VACANCY / PHOTOCELL	CEILING SENSOR, DUAL TECHNOLOGY, STANDARD RANGE (12' @ 9' AFF), 360° COVERAGE PATTERN, PHOTOCELL WITH DIMMING, LOW VOLTAGE AUXILIARY RELAY (POWERPACK REQUIRED; 11PP16 D)	CEILING	ACUITY nCM PDT 9 ADCX AR RJB	LOW
FC	FAN CONTROL	CHRONICLE CEILING FAN CONTROLLER. COORDINATE WIRING WITH MANUFACTURER	WALL MOUNT	PROVIDED WITH CHRONICLE CEILING FAN	
N/A	POWER PACK	nLIGHT POWERPACK, O-10V DIMMING, EXTENDED FAULT PROTECTION, PLENUM RATED	N/A	ACUITY nPP16 D EFP	120-27 7
N/A	POWER PACK	nLIGHT POWERPACK, PLUG LOAD CONTROL, NLIGHT BUS POWER (40mA MAX), PLENUM RATED	N/A	ACUITY nPP20 PL BP	120-27 7
N/A	POWER PACK	nLIGHT POWERPACK, PHASE DIMMING, PLENUM RATED	N/A	ACUITY nSP5 PCD	120-27 7
TS	TIMECLOCK	DIGITAL ASTRONOMICALTIMECLOCK WITH DISPLAY (POWERPACK REQUIRED; INCLUDED POWER SUPPLY PS150)	WALL MOUNT	ACUITY NLIGHT DTC	120-27 7

NOTES: \*NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN MODEL NUMBERS AND DESCRIPTIONS PRIOR TO ORDERING \*VERIFY DIMMING COMPATIBILITY W/ LIGHT FIXTURES AND NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ORDERING

	MECHANICAL EQUIPMENT						
KEY	DESCRIPTION	LOAD	VOLT	CIRCUIT	CONNECTION	REMARKS	
MUA	MAKE UP AIR UNIT	9.5 MCA	208/3	(3-#12,#12G) 1/2"C	30/3; 10 FRN		
FC 3	FAN COIL	3.25 MCA	208/1	(2-#12,#12G) 1/2"C	30/2; 4 FRN		
HP 3	HEAT PUMP	24 MCA	208/1	(2-#10,#10G) 1/2"C	30/2; 25 FRN		
EF 1	CEILING EXHAUST FAN	23 W	120/1	(2-#12,#12G) 1/2"C	THERMAL O.L.		
KEF 1	UTILITY SET EXHAUST FAN	1 HP	208/1	(2-#12,#12G) 1/2"C	30/2; 15 FRN		
KEF 2	UTILITY SET EXHAUST FAN	2 HP	208/3	(3-#12,#12G) 1/2"C	30/3; 10 FRN		
DEF 1	UTILITY SET EXHAUST FAN	3/4 HP	208/1	(2-#12,#12G) 1/2"C	30/2; 10 FRN		
GWH	GAS FIRED WATER HEATER	200 W	120/1	(2-#12,#12G) 1/2"C	5-20R		
0 U	RECIRC PUMP	86 W	120/1	(2-#12,#12G) 1/2"C	5-20R		

NOTES: \*TEMPERATURE RATING OF ALL DEVICES COULD NOT BE VERIFIED, THEREFORE WIRE IS SIZED BASED ON GOC PER NEC 110.14(C)(1)(a)

Y	DESCRIPTION	LOAD	VOLT	CIRCUIT	CONNECTION	REMARKS
4	BEER COOLER LIGHTS/CONTROLS	20 MCA	120/1	(2-#12,#12G) 1/2"C	J-BOX	
5	BEER COOLER COIL	20 MCA	120/1	(2-#12,#12 <i>G</i> ) 1/2"C	J-BOX	
6	BEER COOLER COMPRESSOR	30 A	208/3	(3-#8,#10G) 3/4"C	60/3; 40 FRN	
7	BEER SYSTEM POWER PACK	15.7 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
15	BIB SODA RACK	15 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
16	REACH IN FREEZER	8.7 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
17	ICE MACHINE	13.2 A	208/1	(2-#12,#12 <i>G</i> ) 1/2"C	J-BOX	
23	WALK-IN COOLER LIGHTS/CONTROLS	20 MCA	120/1	(2-#12,#12G) 1/2"C	J-BOX	
24	WALK-IN COOLER COIL	20 MCA	120/1	(2-#12,#12 <i>G</i> ) 1/2"C	J-BOX	
25	WALK-IN COOLER COMPRESSOR	30 A	208/3	(3-#8,#10G) 3/4"C	60/3; 40 FRN	
38	20 QT. MIXER	бА	120/1	(2-#12,#12G) 1/2"C	5-20R	
45	COMBINATION OVEN	52 A	208/3	(3-#6,#8G) 1"C	100/3; 70 FRN	
46	EXHAUST HOOD	20 A	120/1	(2-#10,#10G) 1/2"C	J-BOX	
47	FIRE SUPPRESSION SYSTEM	20 A	120/1	(2-#10,#10G) 1/2"C	J-BOX	
53	REFRIGERATED EQUIPMENT STAND	ЗА	120/1	(2-#12,#12G) 1/2"C	J-BOX	
56	6 BURNER RANGE W/ CONVECTION OVEN	4 A	120/1	(2-#12,#12G) 1/2"C	J-BOX	
62	SALAD PREP REFRIGERATOR	ЗА	120/1	(2-#12,#12G) 1/2"C	5-20R	
65	RICE COOKER	13 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
66	HOT FOOD TABLE	10 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
67	MEGA TOP PREP REFRIGERATOR	4 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
68	WORKTOP FREEZER	3.6 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
73	POS TERMINAL	10 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
73.1	POS PRINTER	10 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
74	HEAT LAMP	2.44 KW	208/1	(2-#12,#12G) 1/2"C	J-BOX	
81	ICED TEA BREWER	14 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
82	ICED TEA BREWER	14.4 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
84	SODA/ICE DISPENSER	10 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
85	NACHO CHIP WARMER	6.5 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
94	CONDENSATE HOOD	30 A	120/1	(2-#8,#10G) 3/4"C	J-BOX	
95	DISH MACHINE	49 A	208/3	(3-#6,#8G) 1"C	100/3; NF	
104	GLASS WASHER	5.4 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
106	UC FREEZER	2.4 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
114	POS TERMINAL	10 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
117	SODA GUN	10 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
123	BACKBAR COOLER	2.5 A	120/1	(2-#12,#12G) 1/2"C	5-20R	
125	BACKBAR COOLER	2.5 A	120/1	(2-#12,#12G) 1/2"C	5-20R	

\*COORDINATE ALL ROUGH-IN HEIGHTS AND LOCATIONS WITH KITCHEN VENDOR AND/OR OWNER.

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	(C X D)
LED: UC SHELF: TAPE: Other:	1	2	92	184
LED: W2: SURFACE: Other:	1	15	4	68
LED: UC BANQUET: TAPE: Other:	1	1	36	36
DRY/STORAGE (Common Space Types: Storage, 492 sq.ft.)				
LED: DK1: TROFFER: Other:	1	6	30	180
LED: DK2: TROFFER: Other:	1	1	20	20
OFFICE (Common Space Types: Office - Enclosed, 58 sq.ft.)	5			
LED: DK1: TROFFER: Other:	1	1	30	30
HALL (Common Space Types: Corridor/Transition <8 ft wide, 135 sq.ft.)				
LED: S1: SURFACE: Other:	1	6	4	27
ENTRY/HOST (Common Space Types: Lobby - General, 67 sq.ft.)				
LED: A1: SCONCE: Other:	1	2	16	32
RECEIVING (Common Space Types: Loading Dock, 109 sq.ft.)				
LED: DK1: TROFFER: Other:	1	2	30	60
	To	tal Propose	d Watts =	2909

building plans, specifications, and systems have been designed to r	posed interior lighting alteration project represente d other calculations submitted with this permit app neet the 2021 IECC requirements in COM <i>check</i> Ven nts listed in the Inspection Checklist.	lication. The proposed interior lighting
Name - Title	Signature	Date

Project Title: 23086 - Teocalli Longmont Data filename:

Report date: 09/20/23 Page 2 of 6

VOLT

A1 [ [ [ [] [] [] []	LAMP (2) 8W TIO LED	LUMINAIRE SCH	CEIL'G (DEPTH)	
A1 [ [ [ [] [] [] []		DESCRIPTION		
A1 E E A2 E	(2) 8W T10 LED			MANUFACTURER/#
A2 E	BULBS (OR 60W EQUIVALENT)	KENYON 18" PICTURE LIGHT SCONCE, STEEL AGED IRON FINISH, DAMP RATED, PROVIDE DIMMABLE BULBS	WALL	VISUAL COMFORT & CO / CW1192AI
1	(2) &W TIO LED BULBS (OR GOW EQUIVALENT)	KENYON 30" PICTURE LIGHT SCONCE, STEEL AGED IRON FINISH, DAMP RATED, PROVIDE DIMMABLE BULBS	WALL	VISUAL COMFORT & CO / CW1212AI
D1 9	9W LED, 2700K	LOTOS R 4" ADJUSTABLE DOWNLIGHT, WET LOCATION RATED, BLACK FINISH, ELV/TRIAC DIMMABLE	RECESSED	WAC LIGHTING / R4ERA2R-W9CS-BK
	10.6W LED, 3000K, 1000LUM	4" DOWNLIGHT, 0-10V DIMMING	RECESSED	LITHONIA / LDN4 30/10 XX XX
	29W LED, 3000LUM, 3000K	2'X4' TROFFER, 0-10V DIMMING, DAMP RATED	GRID	LITHONIA / EPANL 2X4 3000LM 80CRI 30K XX XX MVOLT XX
	19W LED, 2000LUM, 3000K	2'X2' TROFFER, 0-10V DIMMING, DAMP RATED	GRID	LITHONIA / EPANL 2X2 2000LM 80CRI 30K XX XX MVOLT XX
	37.5W LED, 4800LUM, 3000K	2'X4' TROFFER, 0-10V DIMMING, DAMP RATED	GRID	LITHONIA / EPANL 2X4 4800LMHE 80CRI 30K XX XX MVOLT XX
E1   1	82W CEILING FAN ONLY	CHRONICLE CEILING FAN	SURFACE	LUMENS / HFN659709
	18.4W LED, 2700K, 2000 LUM	6"X10" LED COMMERCIAL CYLINDER, 0-10V/TRIAC DIMMABLE, DAMP & WET RATED UNDER COVERED CEILING	SUSPENDED (TBD)	VANTAGE LIGHTING / VP610FCRU-2027K- BLK-XX-CCK-72
P2 (	8W E26 LED BULB (OR 60W EQUIVALENT)	CLAXY GEOMETRIC BLACK MODERN/CONTEMPORARY CLEAR GLASS OUTDOOR PENDANT, PROVIDE CLEAR DIMMABLE BULB	SUSPENDED (TBD)	LOWES / CLAXY YO-TB5088DU-40T
P3 E	(5) 8W E26 LED BULB (OR 60W EQUIVALENT)	FLOAT DRUM CHANDELIER, PROVIDE CLEAR DIMMABLE BULB	SUSPENDED (TBD)	SHADES OF LIGHT / CH18095
P4.L	24W LED, 2400LUM	INDUSTRIAL VINTAGE IRON GLASS LINEAR PENDANT, LARGE, BLACK FINISH	SUSPENDED (TBD)	BULB SQUARE / 202349-02-3
P4.S 1	18W LED, 1800LUM	INDUSTRIAL VINTAGE IRON GLASS LINEAR PENDANT, SMALL, BLACK FINISH	SUSPENDED (TBD)	BULB SQUARE / 202349-01-3
P5 E	(6) 48W E12 LED BULBS (OR 60W EQUIVALENT), 2700K	NASH LAYERED CHANDELIER, PROVIDE DIMMABLE BULBS	SUSPENDED (TBD)	SHADES OF LIGHT / CH20171
	2.2W/FT LED, 2700K, 200LUM/FT	16.4FT MAX RUN TAPE LIGHT, ELV/TRIAC DIMMABLE	TAPE LIGHT	TRULUX / STLHD-UWW-16
	4.5W ST19 LED, 2100K, 250LUM	BLACK FIXTURE, DIMMABLE BULB WITH CLEAR FINISH	SURFACE	FIXTURE: SUNLITE / 46071-SU LAMP: GREENCREATIVE / 37092 4.5FSST19DIM/821
S2 5	5W LED, 2700K	HR ECESSED BUTTON LIGHT, ELV DIMMABLE W/ LUTRON, BLACK FINISH	RECESSED	WAC LIGHTING / HR-LED90-27-BK
W1 F	4.5W G9 LED BULB PROVIDED, 2700K, 450LUM	MASON SCONCE, DAMP LOCATION RATED, DIMMABLE	WALL	CEDAR & MOSS / MASON SCONCE
<i>Z</i> 1 E	(24) GW E26 LED BULBS (OR 25W EQUIVALENT)	COMMERCIAL GRADE LIGHT STRING, 48FT STRING, 24IN SPACING, OUTDOOR RATED	STRING	AMERICAN LIGHTING / LS2-M-24-48-BK
X Cal	4.5W ST19 LED, 2100K, 250LUM	BLACK FIXTURE, DIMMABLE BULB WITH CLEAR FINISH	SURFACE	FIXTURE: SUNLITE / 46071-SU LAMP: GREEN CREATIVE / 37092 4.5FSSTI9DIM/821
	16W LED, 1250 LUM, 2700K	BOMBER INTEGRATED GOOSENECK SCONCE, 15" SHADE	WALL	BARN LIGHT / BLE-G-WHB15-XX-G22-XX-XX- XX-XX-LED16-2700K-FL
X1 F	FURN	EXIT SIGN, GREEN LED STENCIL FACE, UNIVERSAL MOUNTING, 90 MIN BATTERY PACK, FINISH BY ARCHITECT	UNIVERSAL	LITHONIA / LQM S * 3 G 120/277 ELN SD (* = FINISH BY ARCH)
X2 F	FURN	EXIT SIGN W/ DOUBLE FROG EYE, GREEN LED STENCIL FACE, $\mathcal{D}O$ MIN BATTERY PACK, FINISH BY ARCHITECT	UNIVERSAL	LITHONIA /LHQM LED * G (* = FINISH BY ARCH)
<b>Y1</b> F	FURN	DOUBLE FROG EYE EMERGENCY LIGHT, 90 MIN BATTERY PACK, +10' MNT 60' SPACING, FINISH BY ARCHITECT	WALL	LITHONIA ELM4L * (* = FINISH BY ARCH)
Y2 F	FURN	DIE CAST ARCHITECTURAL EMERGENCY LIGHT, WET LOCATION LISTED, 90 MINUTE COLD WEATHER (0°F TO 122°F) BATTERY PACK	WALL	LITHONIA AFN * EXT (* = FINISH BY ARCH)

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

	ior Lighting Comp	mance c			
Project Information					
Project Information Energy Code:	2021 IECC				
Project Title: Project Type:	23086 - Teocalli Longmont Alteration				
Construction Site:	Owner/Agent:	Designer/	Contractor		
Allowed Interior Ligh	nting Power				
	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2		D lowed Vatts
1-MEN/WOMEN (Common Spa	ace Types:Restrooms) Common Space Types:Food Preparation)	291 1032	0.63 1.09		183
3-DINING (Common Space Ty	pes:Dining Area - Family Restaurant)	1956	0.60		1174
4-DRY/STORAGE (Common Sp 5-OFFICE (Common Space Ty		492 58	0.38		187 43
6-HALL (Common Space Type	es:Corridor/Transition <8 ft wide)	135	0.71		96
7-ENTRY/HOST (Common Space 8-RECEIVING (Common Space	The second s	67 109	0.84		56 96
	e Types.coading Docky		Allowed Watt	s =	2960
Proposed Interior Lig	ghting Power				
	A ption / Lamp / Wattage Per Lamp / Ba	B allast Lamps/ Fixture		D ixture Watt.	(C X D
MEN/WOMEN (Common Sp LED: D1: DOWNLIGHT: Oth	pace Types: Restrooms, 291 sq.ft.)	i	б	9	54
LED: W1: SCONCE: Other:		1	6	4	27
LED: DK2: TROFFER: Other LED: S1: SURFACE: Other:	r:	1	1	20 5	20 5
	(Common Space Types: Food Preparation	, 1032 sq.ft.)			
LED: DK3: TROFFER: Other LED: S1: SURFACE: Other:		1	4	40 11	160 154
LED: P5: BAR PENDANT: O	ther:	1	10	48	480
LED: UC BAR, OUTER: TAPE LED: UC BAR, INNER: TAPE		1	1	130 117	130 117
DINING (Common Space T	Types: Dining Area - Family Restaurant, 19	956 sq.ft.)		277	
LED: S1: SURFACE: Other: LED: D1: DOWNLIGHT: Oth		1	14 1	4 9	63 9
LED: P2: PENDANT: Other:		1	14	8	112
LED: P4S: PENDANT: Other LED: P4L: PENDANT: Other		1	4	18 24	72 120
LED: P1: PENDANT: Other: LED: P3: PENDANT: Other: LED: P3: PENDANT: Other:		1	19 10	18 40	350 400
	calli Longmont		Re	port date Page	e: 09/20, 1 of
Data filename:					
COMche	eck Software Version Co ior Lighting Comp			cate	e
Exterio				cat	e
COMche Exterior				cat	e
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COMche Exteri Exteri Exteri Troject Information hergy Code: roject Title: roject Type: kterior Lighting Zone	2021 IECC 23086 - Teocalli Longmont Alteration	oliance C	Certifi	cat	e
roject Information roject Title: oject Type: cterior Lighting Zone	2021 IECC 23086 - Teocalli Longmont Alteration 2 (Residential mixed use area (L Owner/Agent:	z2)) Designer/C	ontractor:		
COMche	ior Lighting Comp 2021 IECC 23086 - Teocalli Longmont Alteration 2 (Residential mixed use area (L Owner/Agent: ing Power	Z2)) Designer/C	Certifi	E	Watts
COMche Exterio Exterio Exterior Exterior Eroject Information hergy Code: roject Title: roject Title: roject Title: roject Type: kterior Lighting Zone onstruction Site:	ior Lighting Comp 2021 IECC 23086 - Teocalli Longmont Alteration 2 (Residential mixed use area (L Owner/Agent: ing Power	Z2)) Designer/C ty C Allowed Watts / t2 0,65	ontractor: D Tradable A Wattage	E Allowed (B X	i Watts ( C)
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COMcha Exterio Exterio Exterior Exterior Exterior Construction Constru	ior Lighting Comp 2021 IECC 23086 - Teocalli Longmont Alteration 2 (Residential mixed use area (L Owner/Agent: ing Power ategory B Quant	Z22)) Z22)) Designer/C C C C Allowed Watts / C Allowed Watts / C Total Tradable Total Allow lowed Supplemental	ontractor: D Tradable A Wattage Watts (a) = red Watts = Watts (b) =	E Allowed (B X 90 91 94	5 1 Watts ( C) 09 09 09 00
COMcha Exterio Exterior Exteri	ior Lighting Comp 2021 IECC 23086 - Teocalli Longmont Alteration 2 (Residential mixed use area (L Owner/Agent: ing Power ategory B Quant 1398 f Total All ly allowed between tradable areas/surfaces. e equal to 400 watts may be applied toward c	Z22)) Z22)) Designer/C C C C Allowed Watts / C Allowed Watts / C Total Tradable Total Allow lowed Supplemental	ontractor: D Tradable A Wattage Watts (a) = red Watts = Watts (b) =	E Allowed (B X 90 91 94	5 1 Watts ( C) 09 09 09 00

LED: XS1: SURFACE: Other: LED: A2: SCONCE: Other: 122 27 4 4 16 64 LED: Z1: STRING: Other: 396 11 36 Total Tradable Proposed Watts = 582 Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Signature

Name - Title

Project Title: 23086 - Teocalli Longmont Data filename:

Report date: 09/14/23 Page 3 of 7

Date



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36168 09/21/2023

PROJECT No: 23086 ISSUE DATE: 09.21.2023 REVISIONS:

ELECTRICAL DETAILS & SCHEDULES

SHEET TITLE:



120

### **DIVISION 26 - 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, 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 Electrical Contractor. The general conditions of the specifications apply and are included in this part of this section.
- 1. Power Distribution System
- 2. Interior and Exterior Lighting System 3. Telephone Raceway System
- 4. Data Raceway System
- 5. Fire Alarm System
- 6. Emergency Lighting System 7. Electric Heating System
- 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: 2021 International Building Code
- 2. Plumbing Code: 2021 International Plumbing Code
- 3. Mechanical Code: 2021 International Mechanical Code 4. Fire Code: 2021 International Fire Code
- 2021 International Fuel Gas Code 5. Gas Code:
- 6. Energy Code: 2021 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. Switches, dimmers, receptacles and coverplates
- 2. Switchboards, Panelboards/Loadcenters
- 3. Disconnect switches
- 4. Fuses 5. Light fixtures
- 6. Light poles
- 7. Fire alarm system and equipment
- B. Ouality 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 electrical 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.
- 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 electrical systems. Bind the written instructions in a notebook. The General Conditions take precedence.
- 1.10 <u>PERMITS:</u>
- 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 power and lighting as required by the General Contractor, in accordance with OSHA and N.E.C. standards. 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 fixtures, equipment, etc. B. Mechanical work performed by this contractor will conform to the standards of Division 21-23. 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

	Furn	Set	Power	Control
Item	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		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.

### 2.01 ACCESS PANELS

- A. The electrical Contractor shall furnish and General Contractor shall install access panels where required for access to equipment. The electrical 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 EXCAVATION AND BACKFILLING

A. Verify the location of underground utilities before excavation; the contractor is responsible for any damage to underground utilities. Provide excavating and backfilling for electrical work. Backfill in 12" layers, mechanically tamp to 95% proctor standards. Protect according to OSHA standards. The General Conditions take precedence B. Provide marker tape 12" above exterior underground service conduits(power, telephone, television).

3.02 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.

- 3.03 HANGERS AND SUPPORTS
- A. Support conduit 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 or copper of a type, acceptable to the Engineer. Chain, perforated iron or wire hangers are not permitted.
- B. Conduit on the roof will be supported above the roof on roof pads. The pads shall be approximately 6"Wide by 6" high by the length as required. They shall be made of recycled rubber, rated for 500lbs/ft loading each. The pads will have galvanized steel "C" channel attached to the top, which can accommodate pipe clamps to secure the conduit. This configuration of individual piping pads may be expanded to include two pads supporting a trapeze style support where multiple conduits are racked together. The pads are C-series manufactured by Cooper B-line or approved equivalent.

3.04 SLEEVES AND PLATES

- A. Provide sleeves and inserts for all conduit. 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 walls(insulation to be continuous through walls.
- B. Drill holes as required for the installation of hangers required for the mechanical work.
- C. Where sleeves are placed in exterior walls below grade, the space between the pipe or conduit and the sleeves shall be made completely water-tight. D. Seal all piping passing through fire-rated construction with approved material to maintain air-tight, fire-rated integrity, 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 appropriate to the function and location, and specifically approved in chapter three of the N.E.C..
- 2.01 CONDUIT: A. The following raceways are approved for use on this project, where approved by the N.E.C.:

3. PVC: Polyvinyl chloride conduit, schedule 40 4. IMC: Intermediate metal conduit, galvanized 2.02 <u>CABLE ASSEMBLIES:</u>

2. GRC: Rigid steel conduit, galvanized

- 1. MC: Metal clad cable 2.03 BOXES:
- City, National or equivalent.

### 2.04 CONDUCTORS:

- stranded for No. 8 AWG and larger

- rated lugs, and proper torqueing of the lugs.
- 2.05 INSULATION:
- A. Provide wire with the following minimum insulation standards:
- using the 75C rating.
- N.E.C., except for wiring made with asbestos.

### 2.06 <u>LUGS</u>:

- 2.07 SWITCHES AND RECEPTACLES

- be galvanized steel

- 2.08 **DIMMERS**:
- equivalent.
- preferred where available.
- have heat fins removed or modified.

### 3.01 <u>WIRING:</u>

- allowed. Conductors must be derated per code. may be No. 14 minimum. If distance from panel to first outlet is 75 feet or greater (for 120-volt circuits) or 150 feet or greater (for
- 277-volt circuits), provide No. 10 AWG.
- D. Where mechanical damage occur, use galvanized rigid steel or intermediate metal conduit.

G. Direct burial wiring shall not be used.

breaker manufacturers instructions.

multiple-device installation as required.

2.02 CURRENT TRANSFORMER CABINETS:

2.03 SAFETY SWITCHES:

3.01 WIRING FOR EQUIPMENT:

required.

SECTION 26 50 00 - LIGHTING

1.01 <u>RECESSED INCANDESCENT</u>

1.02 RECESSED FLUORESCENT

1.04 EXTERIOR LIGHTING FIXTURES:

1.03 RECESSED LED:

2.04 FUSES:

increased for voltage drop

1.01 SERVICE ENTRANCE:

1.02 GROUNDING:

2.01 PANELBOARDS:

1. EMT: Electrical metallic tubing, galvanized

A. The following cable assemblies may be used in the power distribution system in concealed locations, where approved by the N.E.C.:

A. Provide galvanized steel outlet and junction boxes, except where otherwise indicated. Boxes shall be a minimum 4" square or

octagonal, depth as required. Provide weather-proof type cast boxes with gasket and cast coverplate for exterior outlets or wet locations. Outlet boxes shall be of the proper type and design for the fixture or device to be installed. Through the wall boxes are not permitted. Provide plaster or tile rings for all flush outlets installed where required. Boxes shall be manufactured by Raco, Steel

B. Interior floor boxes shall be non-metallic or cast steel in concrete or slab on grade installations, and shall be rated for the use. Floor boxes above grade shall be non-metallic or stamped steel, rated for the use. Multi-gang boxes shall be used where specified. Coverplates shall be polished brass with 'flip lids' for receptacles and connectors. Provide carpet flanges where appropriate.

A. Provide a complete set of power conductors, rated 600 volts, of the quantity, size and type required for the function. 1. Conductors shall be copper, except where specifically noted. Conductors shall be solid for wire sizes No. 10 AWG and smaller;

2. Aluminum conductors will be accepted only where specifically indicated by the Contract Documents. Aluminum conductors must be terminated according to the manufacturers instructions, including use of proper joint compound, use with aluminum

1. Branch circuits, panelboard feeders, service entrance conductors: THWN-2, XHHW(90C). The conductors shall be applied 2. Connections to fixture ballasts, and wiring runs in or through fixture wiring channels: Insulations listed in table 402.5 of the

3. Cord connections: Cords listed in table 400.4 of the N.E.C., except for wiring made with asbestos.

A. Lugs for all equipment will be rated for the use. Lugs will be suitable for copper or aluminum conductors, rated for 75C.

A. Provide specification grade devices throughout. Switches and duplex receptacles may be commercial grade. Devices shall be

manufactured by Hubbell, Leviton, General Electric, Bryant, Slater, Pass & Seymour, Inc., Sierra, or Arrow-Hart. B. Except where noted, plates shall be plastic, color to match the devices with matching screws for receptacles, switches, telephone, and TV outlets. Provide blank coverplates for unused outlets. Coverplates for multi-gang boxes shall be sized for the box it covers. C. Devices and their coverplates colors shall be coordinated with Architect and Owner. In mechanical rooms, etc, the coverplates may

D. In kitchens, and other back of house areas, and in areas with adjacent stainless steel equipment, they shall be brushed aluminum

coverplates with white devices. Field verify any areas of doubt with the architect.

A. Incandescent dimmers shall be the linear slide-type with aluminum fins. Dimmers shall be Lutron Nova series or equivalent.

B. Fluorescent dimmers shall be the linear slide-type with aluminum fins. The dimmers shall be closely coordinated with the ballast type of the specific fixture being controlled and must be field coordinated before ordering. Dimmers shall be Lutron Nova series or

C. LED dimmers must be selected by, or specifically approved by, the specific fixture manufacturer or supplier. Slide type dimmers are

D. When switches and dimmers are located side by side, switches shall have identical appearance as dimmers. Dimmers shall in no case

E. Dimmers shall be manufactured by Lutron, Hunt, Prescolite, or equivalent

A. The drawings are schematic in nature; alternative wiring paths, different conduit fill, etc, installed in conformance with the N.E.C. are

B. Branch circuits shall use minimum No. 12 AWG wiring for branch circuits, protected by 20 ampere circuit breakers. Control wiring

C. Use PVC in earth or in slabs in contact with earth. Outside the building, install a minimum of 30" below finished grade.

E. Electric metallic tubing may be used in all applications, except where prohibited by code or otherwise noted. F. Do not install exposed conduit in areas open to the public. Exposed conduit may be installed at surface-mounted equipment and

other locations acceptable to the Architect. Run exposed conduit parallel to, and at right angles with, the building lines.

H. Use flexible metallic conduit for connections to motors, fixtures, or other equipment where vibration is encountered. Provide sealtite flexible metallic conduit in wet areas such as kitchens, equipment rooms, on roofs, etc. I. Provide a ground wire in non-metallic conduit and flexible conduit. Ground wires shall be increased in size where circuit wiring is

J. Circuits fed through AFCI breakers shall have separate neutrals with no cross or ground connections; wiring shall be installed per the

K. Multi-wire branch circuits shall utilize handle ties on breakers, or other grouped disconnecting means per NEC 210.4(B).

3.02 OUTLET BOXES, DEVICES AND FITTINGS:

A. Install receptacle and telephone outlets 18" to center-line above floor in general locations; install at switch height where shown in combination; install 46"to center-line in mechanical equipment rooms.

B. Install receptacles vertically, ground pole down. C. Install switch outlets 46" to center-line above floor on latch side of door. Verify door swing prior to installation. Use gang boxes for

D. Install outlets shown on the drawings "back-to-back" with a minimum of 6" lateral separation between them.

SECTION 26 20 00 - SERVICE AND DISTRIBUTION

A. Power will be available from the secondary side of transformer(s) provided by the utility company. This service shall be 120/208 volt, 3 phase, 4 wire, 60 hertz A.C. for normal power and lighting requirements. General arrangement of the service equipment is shown on the drawings. Load balance the entire system to within 15% per phase.

A. Provide a complete grounding system in accordance with Section 250 of the N.E.C. B. Supplemental electrode to be installed unless resistance of 25 ohms to earth can be documented.

A. Provide circuit breaker-type panelboards as detailed on the drawings. Provide separate ground bus. Provide fronts with door and latch with locks keyed alike. Install panels 6'6" above finished floor to top of trim. Where panels are mounted side by side, align tops of panels. Mount a typed directory, identifying each circuit, in a directory frame. Provide typed source label identifying source of power for each panel. Install trims and doors with primer coats in finished areas. Provide one spare 3/4" conduit for each 3 unused poles in flush-mounted panelboards; extend from to an accessible point above a hung ceiling; cap and identify.

B. Breakers shall be full width, thermal magnetic, bolt-on type. Provide multi-pole breakers with common trip and single operating handle; handle ties are acceptable for multi-wire branch circuits.

1. Breakers serving restaurant kitchens and bars, or where required by code, shall be GFCI breakers. GFCI receptacles may be used only where the receptacles are not located behind equipment.

2. HACR breakers shall be used for HVAC equipment in accordance with the equipment manufacturer. 3. HID breakers shall be used where HID or fluorescent fixtures are normally panel switched.

C. Lugs on mains and branch breakers shall be rated for 75C or 60C, copper or aluminum wiring.

D. Panelboards(240VAC) shall be Square D type NQOD or equivalent by I.T.E., G.E., or Cutler Hammer.

A. Provide current transformer cabinets, including interior lugs and bussing, as required to accommodate the requirements of the utility company. The cabinets shall be U.L. listed, weatherproof as required. All lugs shall be rated for 75C or 60C wiring.

A. Provide normal duty, enclosed, fusible and non-fusible safety switches as indicated on the plans. All lugs shall be rated for 75C or 60C copper or aluminum wiring. Provide enclosures suitable for the surrounding area and conditions. Label switches for feeder or motor supplied. The switches shall be manufactured by Square D, I.T.E., G.E., Cutler Hammer, or equivalent.

A. Provide power fuses of the time-delay type unless otherwise indicated. Fuses shall be manufactured by Bussman, Gould Shawmut, or equivalent. Provide one (1) complete set of fuses for fuse-holding devices, sized according to the motor and/or conductor to be protected. Provide a hinged cover cabinet for storage of spare fuses: three spare fuses of each fuse size.

A. Provide branch circuits, feeders, junction boxes, disconnect switches, etc as required for a complete system; make power connections to motors and controls for heating, ventilating, air conditioning, plumbing, owner furnished and fire protection equipment as required. B. Kitchen equipment. Refer to the Kitchen Equipment Contractor's drawings for final sizing, locations, and rough-in heights. The Electrical Contractor shall provide final circuits and connections to kitchen electrical equipment. Sealtite conduit and fittings shall be used on runs inside refrigerated bases and at dish tables.

C. Provide connections to hood fire suppression system(s). The electrical contractor is responsible for wiring the interlock controls for hood related air handling equipment, including low voltage interlocks, and interlocks within building HVAC equipment where

A. Recessed incandescent luminaires shall be pre-wired. Openings shall be neatly made so they are completely concealed after the trim

is installed. Luminaires installed in a grid ceiling shall be supported by the framing system, not by ceiling panels. Install metal plaster frames in plaster ceilings. Fixtures shall have thermal protection where required by the N.E.C. and local codes.

A. Recessed fluorescent luminaires shall be of the proper type for the ceiling. No distortion or field modifications of the fixtures or ceilings are allowed. Luminaires shall be ready for installation individually or in continuous rows into ceiling.

A. Recessed LED luminaires shall be pre-wired. Openings shall be neatly made so they are completely concealed after the trim is installed. Luminaires installed in a grid ceiling shall be supported by the framing system, not by ceiling panels. Install metal plaster frames in plaster ceilings. Fixtures shall have thermal protection where required by the N.E.C. and local codes.

A. Provide weather-proof luminaires for mounting as shown. Provide lamps of size and wattage as indicated on the drawings. Provide

underground wiring to exterior lighting as shown on the drawings.

- 2.01 INTERIOR LIGHTING FIXTURES A. Securely support and anchor fixtures and outlet boxes. Where lighting fixtures are installed in a lay-in grid ceiling system, secure fixtures to tees by installing earthquake clips at each corner of the fixture. Provide supports required, including structural members if needed. Provide separate junction boxes and wire to recessed fixtures in flexible conduit with Type AF wire, unless acceptable pre-wired fixtures are used. Conceal openings cut in ceilings for recessed fixtures with fixture trim installed. Coordinate installation of recessed fixtures with ceiling installer.
- 2.02 EXTERIOR LIGHTING FIXTURES:

A. Exterior lighting fixtures, raceways, equipment, etc. shall be weather-proof and suitable for temperatures down to -20F. B. Ballast type, lamp wattage, and rated voltage shall be as indicated on the plans. Each ballast shall be of the separate- component type, capable of reliable lamp starting down to -20F, and shall have a minimum power factor of .90.

2.03 <u>LAMPS</u>: A. Incandescent and LED replacement lamps shall be rated at 130V. H.I.D. and fluorescent lamps shall be as specified on plans with ballasts as specified in the following specifications. Lamp codes listed are ANSI. All lamps shall be Sylvania, General Electric, or

approved equivalent B. In porcelain keyless fixtures, provide medium base, self ballasted, A-line shape, fluorescent lamps, GE FLE15/2/A21 or equivalent. 2.04 DRIVERS:

A. LED drivers shall be electronic-type, labeled as compliant with radio frequency interference (RFI) requirements of FCC Title 47 Part 15, and comply with NEMA SSL 1 "Electronic Drivers for LED Devices, Arrays, or Systems". LED drivers shall have a sound rating of "A", have a minimum efficiency of 85%, and be rated for a THD of less than 20 percent at all input voltages.

B. Dimmable LED drivers shall be 0-10V type. Dimmable LED drivers shall be capable of dimming without LED strobing or flicker across their full dimming range.

C. Ballasts and drivers shall be rated for the ambient temperatures in which they are located. Outdoor fixtures shall be equipped with ballasts or drivers rated for reliable starting to -20 degrees F. Indoor fixtures located in areas with direct sunlight or above normal ambient temperatures shall have ballasts or drivers rated at 65 degrees C minimum.

2.05 BALLASTS:

may be used. Other requirements of this section still apply.

8. Ballasts shall have a three year warranty, including labor allowance.

shall be manufactured by Bodine, or equivalent.

controllers, transformers, relays, wiring, etc. as required.

2. Occupancy control areas(All interior areas):

selector switches, relays, wiring, etc. as required

a. Lights will be turned on with occupancy detection.

a. Lights will be turned on with occupancy detection.

B. Set time clock(s) to operate contacts as scheduled hours by Owner.

Electric. Advance or Universal.

2.06 INDOOR LIGHTING CONTROLS:

B. <u>Sequence of operations:</u>

2.07 OUTDOOR LIGHTING CONTROLS

**DIVISION 27 - COMMUNICATIONS** 

SECTION 27 20 00 - COMPUTER SYSTEM

the computer system installe

A. Provide pull strings in all conduit.

**SECTION 27 30 00 - TELEPHONE SYSTEM** 

the telephone system installer

A. Provide pull strings in all conduit

SECTION 27 40 00 - VIDEO SYSTEM

ceiling, in lieu of conduit and boxes.

connector in 1/"4 high black letters.

A. Provide pull strings in all conduit.

for the application

representative.

adjustable

1.01 DESCRIPTION:

2.02 WALL OUTLETS

2.01 CONDUIT:

2.03 <u>WIRING:</u>

3.01 EXECUTION:

1.01 DESCRIPTION:

2.01 <u>CONDUIT:</u>

2.02 TERMINALS:

application.

representative.

2.03 WIRING:

3.01 EXECUTION:

1.01 DESCRIPTION

2.02 WALL OUTLETS

application.

2.01 <u>CONDUIT</u>

2.03 <u>WIRING:</u>

3.01 EXECUTION:

6. Ballasts shall have power factor above 90% and a lamp crest factor less than 1.6.

Ballasts shall be manufactured by Magnetek, Universal, General Electric, or Advance.

1. Daylight control areas(All perimeter offices within 15' of exterior windows):

c. Lights will be turned off after 10 minutes with no occupancy detection.

b. Lights will be turned off after 10 minutes with no occupancy detection.

across inaccessible ceilings. Computer wiring may be run wild above accessible ceiling.

across inaccessible ceilings. Telephone wiring may be run wild above accessible ceiling.

required. Provide power and ground connection as required or shown on the plans.

across inaccessible ceilings. Video wiring may be run wild above accessible ceiling.

underground conduit shall be schedule 40 PVC with solvent joints.

A. General: Ballasts shall be U. L. listed and shall comply with all applicable state and federal efficiency standards. Ballasts shall be manufactured in the U.S.A. Ballast case temperature shall not exceed 90C. B. Fluorescent Ballasts:

2. Where required by code, the ballast shall have an integral internal disconnect device, in accordance with NEC 410.130.

5. Ballasts shall meet all applicable ANSI and IEEE standards regarding harmonic distortion and surge protection.

1. Ballasts shall be high frequency electronic type, operating lamps at a frequency of 20 KHZ or higher with no detectable flicker.

3. Where electronic ballasts are not available for a particular fixture or lamp configuration, electromagnetic energy reducing ballasts

4. Ballasts shall be equipped with UL component, recognized, non-PCB-protected capacitors, Class P protector, and class A sound

7. Emergency ballasts shall be fixture-mounted, self contained type including ballast, nicad battery, charger, inverter and sensing

circuitry, all mounted in a red steel enclosure. The units shall be rated for 90 minute operation, and shall provide at least 1,000

lumens for single or bi-pin fluorescent lamps, and 950 lumens for compact fluorescent lamps. Ballasts shall be U.L. listed and

9. Ballasts shall be Magnetek "Triad" type for larger lamps, "Universal" type for compact lamps. Approved equivalents are General

C. High Intensity Discharge: High-intensity discharge ballasts shall be high power factor, constant wattage, autotransformer type.

A. Provide combination daylight and occupancy, lighting control system as shown on drawings. Include power packs, sensors,

A. Provide astronomical time switch, lighting control system as shown on drawings. Include contactors, time switches, transformers,

C. Time clock shall be astronomical seven day programable type. Provide contacts as shown on plans. Time clock shall be readily

A. Provide a complete system of raceways, pull boxes, outlet boxes, and terminals. Raceways shall form a complete path up walls and

A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverplates are to be provided by

B. Provide an alternate price for plaster rings at outlet location, and pullstrings in wall up to accessible ceiling, in lieu of conduit and

A. Wiring shall be provided by the computer system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated

A. Provide a complete system of raceways, pull boxes, outlet boxes, and terminals. Raceways shall form a complete path up walls and

B. System will include exterior underground conduit routed to a point of connection(usually a pedestal or a power pole) as directed by

B. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverplates are to be provided by

C. Provide an alternate price for plaster rings at outlet location, and pullstrings in wall up to accessible ceiling, in lieu of conduit and

A. Wiring shall be provided by the telephone system installer. Wiring run in air plenums shall be teflon coated or similarly rated for the

A. Telephone terminals shall be constructed of 1/2" thick, fire resistant, interior finish plywood, painted white, sized as shown or

B. Exterior underground conduit shall use long radius, sweep ells. These elbows shall be schedule 80 PVC, or PVC coated GRC

A. Provide a complete system of raceways, pull boxes, outlet boxes, and terminals. Raceways shall form a complete path up walls and

A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverplates are to be provided by

the video system installer. Provide an alternate price for plaster rings at outlet location, and pullstrings in wall up to accessible

B. Terminal shall contain one type F connector mounted on a brushed aluminum plate. "CATV" will be engraved on plate above each

A. Wiring shall be provided by the video system installer. Wiring run in air plenums shall be teflon coated or similarly rated for the

B. Exterior underground conduit shall use long radius, sweep ells. These elbows shall be schedule 80 PVC conduit.

C. Field verify all television outlet locations. Final locations and heights shall be as designated by the Architect or Owner's

A. Conduit in the building shall be galvanized EMT, with plastic bushings on ends which are not terminated in a box. Exterior

underground conduit shall be schedule 40 PVC (schedule 80 PVC radius elbows) with solvent joints.

C. Field verify all telephone outlet locations. Final locations and heights shall be as designated by the Architect or Owner's

A. Conduit in the building shall be galvanized EMT, with plastic bushings on ends which are not terminated in a box. Exterior

B. Field verify all computer outlet locations. Final locations and heights shall be as designated by the Architect or Owner's

the telephone company. Exterior conduit shall be sized and installed as directed by the telephone company.

A. Conduit in the building shall be galvanized EMT, with plastic bushings on ends which are not terminated in a box.

b. Daylight sensors will dim fixtures to maintain 50 foot candles on working surface of desk.

### **DIVISION 28 - ELECTRONIC SAFETY AND SECURITY**

### SECTION 28 30 00 - FIRE ALARM SYSTEM

### 1.01 <u>GENERAL:</u>

- A. Provide an electronically-operated, double-supervised, closed-circuit, addressable type fire alarm system consisting of a control unit, manual-pull stations, alarm signals, automatic smoke and heat detectors, sprinkler monitor modules, and control relays as required, located as shown on the drawings and wired in accordance with the manufacturer's instructions to make a complete and workable
- system as hereinafter described.
- B. Add, remove, move or change devices as required to provide a fire alarm system meeting the requirements of the authority having jurisdiction.
- C. Provide equipment manufactured by Simplex Time Recorder Company (System 4000), or equivalent by Fire Lite, Notifier, or Silent Knight

### 1.02 CODES AND REGULATIONS:

- A. Fire Alarm system shall comply with NFPA 72(2013 edition).
- 2.01 CONTROL PANEL:

### A. The control panel shall be modular with solid state, microprocessor based electronics. Panel shall contain an 80-character LCD display to indicate panel status. The panel shall include initiation device circuits, alarm indicating appliance circuit, supervised annunciator circuits, automatic battery charger and standby batteries. B. The fire alarm control panel shall be Simplex Series 4010 or equivalent.

- 2.02 ANNUNCIATOR:
- A. The annunciator shall be flush mounted and back lit using LED lights for power on, trouble and alarm indication. Remote annunciator shall have an 80-character LCD display. Units may be stacked within one enclosure to accommodate the proper number of zones. The annunciator shall include trouble silence, alarm silence, and system reset switches. The remote annunciator shall be electrically supervised from the control panel.

### B. The annunciator shall be Simplex 4602 Series or equivalent. 2.03 MANUAL PULL STATIONS

A. Manual pull stations shall be double action type made of red lexan with raised white letter; activation shall require two separate and distinct actions. Reset shall require a key common to the control panel.

### B. Pull stations shall be Simplex 4099-series or equivalent. 2.04 SMOKE DETECTORS:

A. Smoke Detectors shall be a dual-chamber, photoelectric type detectors, complete with flashing status-indicating LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady and at full brilliance. The detector may be reset by actuating the control panel reset switch.

### B. The detectors shall be Simplex 4098 Series or equivalent.

2.05 AUTOMATIC HEAT DETECTORS:

A. Automatic heat detectors shall be combination rate-of-rise and fixed-temperature type. When the fixed temperature portion is activated, the units shall be non-restorable and give visual evidence of the operation. B. The detectors shall be Simplex 4098 Series or equivalent.

### 2.06 DUCT SMOKE DETECTORS:

A. Duct smoke detectors shall be solid-state photoelectric type and shall operate on the light scattering principle. Detector construction shall be of the split type, a mounting base with twist-lock detecting head. Removal of the detector head shall interrupt the supervisory circuit. Detector shall be compatible with normally open fire alarm detection devices. Detector shall have an alarm LED

### visible through a transparent front cover. B. The detectors shall be Simplex 4098 Series or equivalent.

### 2.07 ALARM HORN/ STROBE

A. Alarm horn/ strobe shall be combination devices. They shall be polarized and operated by 24VDC. Each horn shall include separate wire lead for in/out wiring. The strobe shall be a xenon flashtube. The lexan lens shall be pyramidal in shape. The units shall have panel module and wiring installed to operate strobes independently when horns are turned off.

### B. The alarms shall be Simplex 4903 Series or equivalent. 2.08 ALARM STROBE:

A. Alarm strobe shall be a xenon flashtube. The lexan lens shall be pyramidal in shape.

### B. The alarms shall be Simplex 4904 Series or equivalent. 2.09 DOOR HOLDERS:

A. Door Holders shall be low voltage magnetic type with a minimum holding force of 25 lbs. The holders will be flush mounted wherever possible. Coordinate the exact location, voltage, etc with the door supplier to assure compatibility if the holders are provided by others.

### B. The holders shall be Simplex 2088 Series or equivalent.

2.10 REMOTE ALARM INDICATORS:

### A. Remote alarm indicators shall be provided for detectors, which are concealed above ceilings or in locked rooms. The indicators shall include test station switch for detectors above ceilings or in areas difficult to access. The remote alarm or remote alarm/test stations shall be Simplex series 2098 or equivalent.

### 2.11 AUTODIALER:

A. Install and wire an auto dialer unit for communication to a central station over leased phone wires. Field coordinate exact details with the Owner or Owner's representative.

### 2.12 MONITOR MODULE:

A. Provide an addressable monitor module for supervision of waterflow and tamper switches. B. Simplex IAM or equivalent.

### 2.13 WIRING

A. Provide a complete system of raceways, pull boxes, and outlet boxes. Raceways shall form a complete path up walls and across inaccessible ceilings. Wiring may be run wild above accessible ceilings.

### 3.01 <u>INITIATION:</u>

A. Upon the operation of any manual pull station or automatic initiating device (smoke detector, sprinkler flow switch, etc.):

- 1. Sound a continuous, audible and visible alarm in the entire building 2. Provide description of alarm condition via LCD display at FACP and remote annunciator.
- 3. In addition, provide controls and wiring required for the following functions:
- a. Shut down all air handling units, except exhaust fans.
- b. Send a signal to a remote monitoring station.

### 3.02 SYSTEM REPRESENTATIVE:

A. All system representative shall be an authorized engineered systems distributor located within a 50 mile radius of the project.

### 3.03 REMOTE INDICATING LIGHTS

A. Remote indicating lights shall be provided for existing detectors obscured from view in locked rooms.

### 3.04 COMPONENT PROTECTION

A. Provide a wire guard over any detector or horn in an area susceptible to physical damage.

### 3.05 FLOW AND TAMPER SWITCHES:

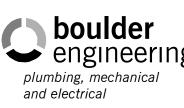
A. Wire all flow switches and tamper switches installed by the fire sprinkler contractor to monitor modules. Determine exact quantity and location before bidding and include the costs of any wiring and conduit.

### 3.06 HORN LIGHT:

A. Wire the exterior fire protection horn light where shown on the plans or as required by the Fire Department.



1300-C Yellow Pine Boulder, CO 80304



1717 15th Street Boulder, CO 80302

303.444.6038 phone 303.442.1172 fax staff@boulderengineering.com

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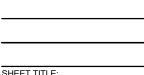
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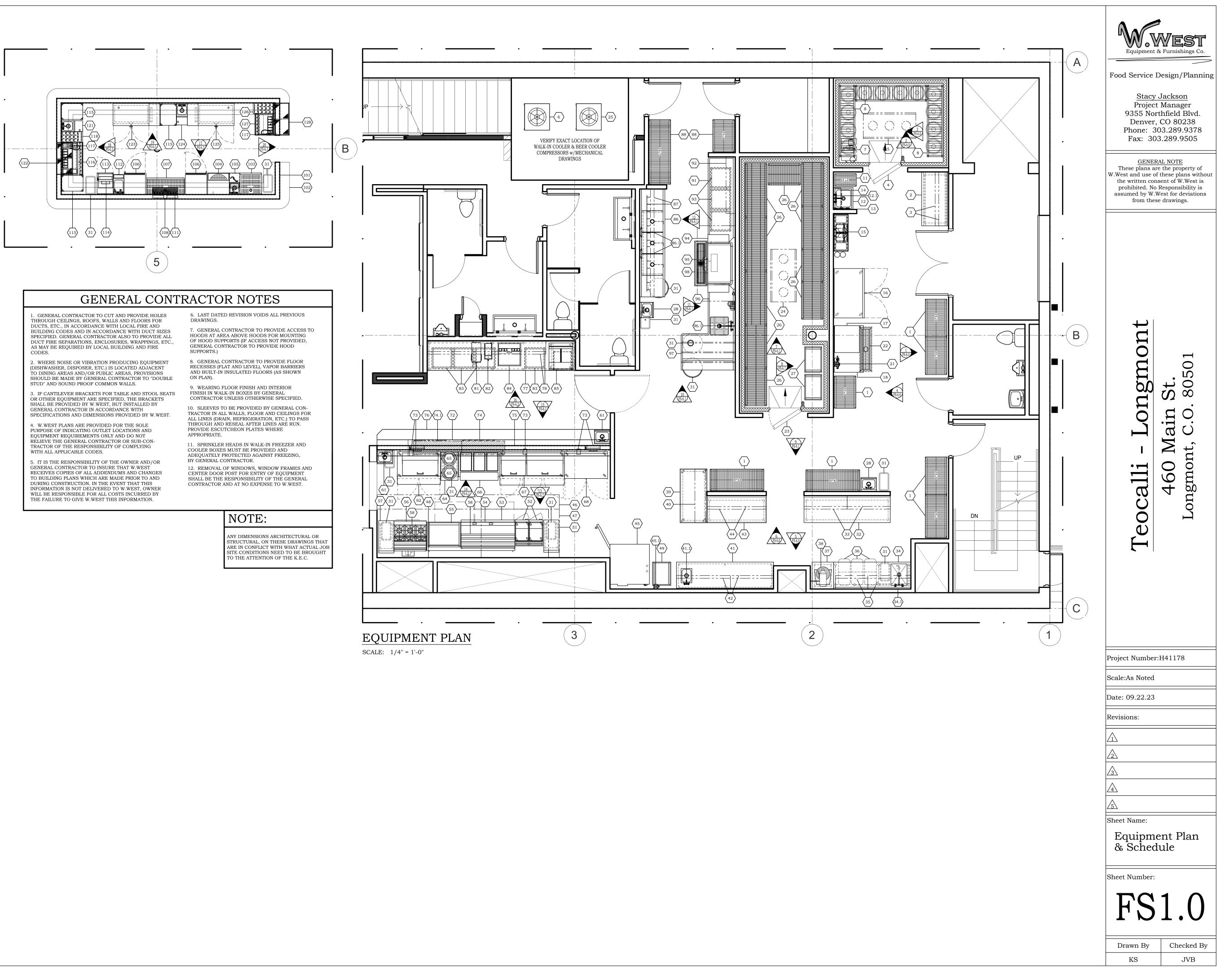


PROJECT No:	23080
SSUE DATE:	09.21.202
REVISIONS:	



ELECTRICAL SPECIFICATIONS





ITEN NO		EQUIPMENT CATEGORY	EQUIPMENT REMARKS	ITEN NO	QTY	Ε
1	LOT		5-TIER	65	$\frac{Q^{11}}{2}$	RI
2	1	WORK TABLE	w/UNDERSHELF	66	1	Н
3	LOT	WALL SHELF		67	1	MF
4	1	WALK-IN BEER COOLER	w/INSULATED FLOOR & RAMP BY OWNER	68	1	U,
5	1	BEER COOLER EVAP. COIL		69	-	SI
6 7	1	BEER COOLER COMPRESSOR BEER SYSTEM POWER PAK		70 71	-	SI SI
, 8		KEG STORAGE RACK		72	1	PA
9	-	SPARE NUMBER		73	LOT	Р.
10	-	SPARE NUMBER		74	1	H
11	1	CHEMICAL STORAGE RACK	4-TIER	74.1	1	H
$\frac{12}{12.1}$	1	MOP SINK MOP SINK FAUCET		75 76	1	IS S/
13	1	MOP/BROOM HOLDER		77	1	BI
14	1	WALL SHELF/MOP RACK		78	LOT	W
15	1	BAG IN BOX SODA RACK	BY OWNER	79	-	SI
16	1	REACH-IN FREEZER	w/CASTERS	80	-	SI
17	1	ICE MACHINE		81	1	IC
18 19	1	ICE BIN SPARE NUMBER		82 83	1 4	IC R/
20	-	SPARE NUMBER		84	1	S
21	1	WATER FILTER FOR ICE MACHINE		85	1	NA
22	1	FLOOR TROUGH		86	1	3-
23	1	WALK IN COOLER	w/INSULATED FLOOR & RAMP BY OWNER	86.1	2	3-
24	1	WALK-IN COOLER EVAP. COIL		87	LOT	W.
25 26	1 LOT	WALK-IN COOLER COMPRESSOR WIRE SHELVING UNIT	4-TIER	88	LOT	W
20 27	2	BUN PAN RACK	w/CASTERS	89 90	-	SI SI
28	2	HAND SINK		91	1	CI
29	-	SPARE NUMBER		92	1	SI
30	-	SPARE NUMBER		93	3	R/
31	LOT			94	1	C
32 33	1 LOT	WORK TABLE WALL SHELF	w/UNDERSHELF	95 96	1	LC SC
33 34	1	WORK TABLE	w/SINK & DRAIN LEVER	96 96.1	1	PF
34.1	1	WORK TABLE FAUCET	PART OF ITEM: 34	97	1	D
35	LOT	WALL SHELF		98	1	FI
36	1	INGREDIENT BIN	w/CASTERS	99	-	SI
37	1	EQUIPMENT STAND		100	-	SI
38 39	1	20 QT. MIXER MOBILE WORK TABLE	w/CASTERS & UNDERSHELF	101 102	1	B/
39 40	$\frac{1}{1}$	TBL. MOUNTED DBL. OVERSHELF	PART OF ITEM: 39	102	1	D
41	1	WORK TABLE	w/SINK & UNDERSHELF	104	1	G
41.1	1	WORK TABLE FAUCET	PART OF ITEM: 41	105	1	D
42	LOT	WALL SHELVING		106	1	U,
43	1	WORK TABLE	w/UNDERSHELF	107	1	D
44 45	LOT 2	WALL SHELF COMBI-OVEN	STACKED	108 109	1	BI SI
45.1	1	REVERSE OSMOSIS SYSTEM	PART OF ITEM: 45	1109	-	SI
46	1	EXHAUST HOOD		111	1	B
47	1	FIRE SUPPRESSION SYSTEM		112	1	U
48	1	S/S FLASHING	BY G.C.	113	1	Ρ.
49	1	BUN PAN RACK	w/CASTERS	114	LOT	
50 51	-	SPARE NUMBER S/S SPREADER CABINET		115 116	LOT	SC IC
52	$\frac{1}{2}$	FRYER	w/CASTERS	110	$\frac{1}{2}$	S
53	- 1	REFRIGERATED EQUIPMENT STAND	w/CASTERS	118	1	LI
54	1	GRIDDLE	,	119	-	SI
55	1	CHARBROILER		120	-	SI
56	1	6-BURNER RANGE	w/CASTERS	121	1	B
57	1	S/S SPREADER CABINET		122	1	B
58	2	TUBULAR WALL SHELF	36" & 60"	123 124	1	B/
59 60	-	SPARE NUMBER SPARE NUMBER		124	1	В
50 51	2	HAND SINK		126	1	LI
10	-		ł	∙ ⊢	t	
62	1	MEGATOP SANDWICH/SALAD PREP REFRIGERATOR	w/CASTERS	127	1	IC

		EQUIPMENT SCH	EDULE
Ι		FOLUDMENT CATECODY	EQUIPMENT REMARKS
	$\frac{Q11}{2}$	EQUIPMENT CATEGORY RICE COOKER	KEMAKKS
	1	HOT FOOD TABLE	3-WELL
	1	MEGATOP SANDWICH/SALAD PREP REFRIGERATOR	w/CASTERS
1	1	U/C FREEZER	w/CASTERS
1	-	SPARE NUMBER	
	-	SPARE NUMBER	
	-	SPARE NUMBER	
	1	PASS-THRU SHELF	2-TIER
		P.O.S. SYSTEM/TICKET PRINTER	BY OWNER
-	1	HEAT LAMP	48" 54"
	1	HEAT LAMP ISLAND DIE WALL	54 <sup>°</sup> BY G.C.
	1	S/S PLATE STORAGE CABINET	BY G.C.
	1	BEVERAGE COUNTER	w/GLASS RACK SLIDES
1	LOT	WALL SHELVING	,
1	-	SPARE NUMBER	
	-	SPARE NUMBER	
]	1	ICED TEA BREWER	
	1	ICED TEA BREWER	
	4	RACK DOLLY	w/CASTERS
	1	SODA MACHINE	LEASE BY VENDOR
┦	1	NACHO CHIP WARMER	
	1	3-COMP SINK	w/DRAIN WASTE LEVERS
┦	2 1.0T	3-COMP SINK FAUCET WALL SHELF/POT RACK	
		WIRE SHELVING UNIT	5-TIER
	-	SPARE NUMBER	
	-	SPARE NUMBER	
1	1	CLEAN DISHTABLE	
1	1	SLANT RACK SHELF	
	3	RACK DOLLY	w/CASTERS
	1	CONDENSATE HOOD	
	1	LOW-TEMP CONVEYOR DISHMACHINE	
	1	SOILED DISHTABLE	w/UNDERSHELF
	1	PRE-RINSE ASSEMBLY	PART OF ITEM: 96
	1	DOUBLE SLANT RACK SHELF	
	1	FLOOR TROUGH	
	_	SPARE NUMBER SPARE NUMBER	
	1	BAR DIE WALL	BY G.C.
	1	BAR TOP	BY G.C.
	1	DRAINBOARD	w/GLASS RACK STORAGE BASE
	1	GLASSWASHER	LEASE BY OWNER
1	1	DUMP SINK	w/CHEMICAL STORAGE CABINET BASE
	1	U/C REFRIGERATOR	
	1	DRAINBOARD	
	1	BEER TOWER	
	-	SPARE NUMBER	
	-	SPARE NUMBER	
┦	1	BAR TOP DRAINER UNDERBAR HAND SINK	w/RINSER
┦		P.O.S. CABINET	
		P.O.S. SYSTEM/TICKET PRINTER	BY OWNER
┨		SOLID SHELVING	3-TIER
1	1	ICE BIN	
ļ	2	SODA GUN	BY VENDOR
J	1	LIQUOR BOTTLE DISPLAY	
	-	SPARE NUMBER	
	-	SPARE NUMBER	
	1	BLENDER STATION	w/DUMP SINK
	1	BARTOP DRAINER	
┦	1	BACKBAR COOLER	
┦	1	BLENDER STATION BACKBAR COOLER	w/DUMP SINK
ļ	1	LIQUOR BOTTLE DISPLAY	
1			
	1	ICE BIN	
	_	ICE BIN BAR TOP DRAINER	

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| P15  | DW<br>CW  
   
   
   
   | 2"   |  
   
   
   
   
   |  |  | -<br>72"   | FLOOR<br>WALL  
   
   
   
   
  | 3  |  | P SINK DRAINS TO DIRECT WASTE<br>SODA RACK - VFY. REQUIREMENTS W/SODA VENDOR   |   |   |   |   
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| P21  | CW  
   
   
   
   | 1/2  |  
   
   
   
   
   |  |  | 74"  | WALL   
   
   
   
   
  | 2  | ICE I  | MACHINE WATER FILTER - PC INTERPLUMB FROM FILTER T   |   |   |   |   
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| P22<br>P28   | DW<br>CW/H  
   
   
   
   | 3"<br>W 1/2"   |  
   
   
   
   
   |  | -  | -<br>24"   | FLOOR<br>WALL  
   
   
   
   
  | 3<br>1   |  | BIN & FLOOR TROUGH DRAIN TO DIRECT WASTE<br>ND SINK FAUCET (2) RIP'S   |   |   |   |   
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| "  | DW  
   
   
   
   | 1 1/   | 2"   
   
   
   
   
   |  |  | 20"  | WALL   
   
   
   
   
  | 3  |  | ND SINK DRAINS TO DIRECT WASTE (2 RIP'S)   |   |   |   |   
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| P34<br>"   | CW/H<br>FSHC  
   
   
   
   | W 1/2"<br>H 12"x   |  
   
   
   
   
   |  | -  | 18"  | WALL<br>FLOOR  
   
   
   
   
  | 1<br>4   |  | RK TABLE SINK FAUCET<br>RK TABLE SINK DRAINS TO FLOOR SINK   |   |   |   |   
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| P41  | -   
   
   
   
   | V 1/2"   |  
   
   
   
   
   |  |  | 18"  | WALL   
   
   
   
   
  | 1  |  | RK TABLE SINK FAUCET   |   |   |   |   
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   |  |  | -  | FLOOR  
   
   
   
   
  | 4  | WOR<br>REVER   | RK TABLE SINK DRAINS TO FLOOR SINK<br>RSE OSMOSIS WATER FITRATION SYSTEM - P.C. TO TEE CW BEFORE WATER FILTER  |   |   |   |   
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| P45<br>"   | CW<br>GAS   
   
   
   
   | 3/4"   |  
   
   
   
   
   | 98,0   |  | 54"<br>60"   | WALL<br>WALL   
   
   
   
   
  | 2<br>5   |  | RSE OSMOSIS WATER FITRATION SYSTEM - P.C. TO TEE CW BEFORE WATER FILTER<br>ERPLUMB TO COMBI-OVEN TREATED WATER & UNTREATED WATER CONNECTIONS<br>MBI-OVEN   |   |   |   |   
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| P52  | GAS   
   
   
   
   | 3/4  |  
   
   
   
   
   | 120,0  |  | 12"  | WALL   
   
   
   
   
  | 5  |  | YER (2) RIP'S  |   |   |   |   
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| P54<br>P55   | GAS<br>GAS  
   
   
   
   | 3/4  |  
   
   
   
   
   | 135,0<br>87,0  |  | 30"<br>30"   | WALL<br>WALL   
   
   
   
   
  | 5<br>5   |  | DDLE<br>AR-BROILER   |   |   |   |   
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| P56  | GAS   
   
   
   
   | 3/4  | 1"   
   
   
   
   
   | 215,0  |  | 24"  | WALL   
   
   
   
   
  | 5  |  | URNER RANGE W/CONVECTION OVEN BASE   |   |   |   |   
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| P61  | CW/H<br>DW  
   
   
   
   | W 1/2"<br>1 1/   |  
   
   
   
   
   |  |  | 24"<br>20"   | WALL<br>WALL   
   
   
   
   
  | 1<br>3   |  | ND SINK FAUCET (2) RIP'S   |   |   |   |   
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| P66  | HW  
   
   
   
   | 1/2  |  
   
   
   
   
   |  |  | 20<br>16"  | WALL   
   
   
   
   
  | 2  |  | ND SINK DRAINS TO DIRECT WASTE (2) RIP'S<br>Γ FOOD TABLE FILL FAUCET   |   |   |   |   
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| "  | FSHC  
   
   
   
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   |  |  | -  | FLOOR  
   
   
   
   
  | 4  |  | FOOD TABLE DRAINS TO FLOOR SINK  |   |   |   |   
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| P81<br>P84   | CW<br>CW  
   
   
   
   | 1/2  |  
   
   
   
   
   |  |  | 50"<br>14"   | WALL<br>WALL   
   
   
   
   
  | 2<br>2   |  | A BREWER/DISPENSER (2) RIP'S - VFY. REQUIREMENTS W/VE<br>DA/ICE DISPENSER - VFY. REQUIREMENTS W/VENDOR   |   |   |   |   
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  | 4  |  | DA/ICE DISPENSER P VIT: REQUIREMENTS W/VENDOR<br>DA/ICE DISPENSER DRAINS TO FLOOR SINK   |   |   |   |   
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| P86  | · ·   
   
   
   
   | W 3/4"   |  
   
   
   
   
   |  |  | 14"  | WALL   
   
   
   
   
  | 1  |  | OMP. SINK FAUCET (2) RIP'S   |   |   |   |   
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|  | FSHC<br>HW  
   
   
   
   | 12"x   |  
   
   
   
   
   |  |  |  | FLOOR<br>WALL  
   
   
   
   
  | 4  |  | OMP. SINK DRAINS TO FLOOR SINK<br>HMACHINE - VFY. REQUIREMENTS w/VENDOR  |   |   |   |   
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| "  | DW  
   
   
   
   | 3"   |  
   
   
   
   
   |  |  | -  | FLOOR  
   
   
   
   
  |  | DISHM  | MACHINE, SOILED DISH SINK, COOLER EVAP. COIL & FLOOR TROUGH DRAIN TO   |   |   |   |   
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| P96  | · ·   
   
   
   
   | W 1/2"   |  
   
   
   
   
   | ·  |  | 14"  | WALL   
   
   
   
   
  | 1  |  | C-RINSE ASSEMBLY   |   |   |   |   
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| P104<br>P105   | HW<br>CW/H  
   
   
   
   | 1/2<br>W 1/2"  |  
   
   
   
   
   |  |  | 12"<br>12"   | WALL<br>WALL   
   
   
   
   
  | 2  |  | ASSWASHER<br>MP SINK FAUCET  |   |   |   |   
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| "  | FSHC  
   
   
   
   | i 12"x   | 12"  
   
   
   
   
   | 1  |  |  | FLOOR  
   
   
   
   
  |  |  | ASSWASHER, DUMP SINK & DRAINBOARD DRAIN TO FLOOR S   |   |   |   |   
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| P107   | FSHC  
   
   
   
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   |  | _  | -  | FLOOR  
   
   
   
   
  |  |  | ER TOWER DRAINER & DRAINBOARD DRAIN TO FLOOR SINK  |   |   |   |   
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| P112<br>"  | CW/H<br>DW  
   
   
   
   | 1/2  |  
   
   
   
   
   | ·  |  | 12"<br>10"   | WALL<br>WALL   
   
   
   
   
  | 1<br>3   |  | ND SINK FAUCET<br>ND SINK DRAINS TO DIRECT WASTE   |   |   |   |   
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| P116   | FSHC  
   
   
   
   | i 12"x   | 12"  
   
   
   
   
   |  |  | -  | FLOOR  
   
   
   
   
  |  | ICE BI   | BIN, BARTOP DRAINER, SODA GUN & BLENDER STATION/DUMP SINK DRAIN TO F   |   |   |   |   
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| P117<br>P121   | CW<br>CW/H  
   
   
   
   | $\frac{1/2}{W \ 1/2"}$   |  
   
   
   
   
   |  | _  | 8"<br>12"  | WALL<br>WALL   
   
   
   
   
  | 2  |  | DA GUN (2) RIP'S - VFY. REQUIREMENTS W/VENDOR CNDER STATION/DUMP SINK FAUCET   |   |   |   |   
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|  | CW/H  
   
   
   
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   | -  |  | 12''   | WALL   
   
   
   
   
  | 1  |  | NDER STATION/DUMP SINK FAUCET  |   |   |   |   
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| "  | FSHC  
   
   
   
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   |  |  | -  | FLOOR  
   
   
   
   
  |  |  | NDER STATION/DUMP SINK DRAIN TO FLOOR SINK   |   |   |   |   
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| P127   | FSHC  
   
   
   
   | 12"x   | 12"  
   
   
   
   
   |  |  | -  | FLOOR  
   
   
   
   
  | 4  | ICE I  | BIN, BARTOP DRAINER & SODA GUN DRAIN TO FLOOR SINK   |   |   |   |   
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| No.<br>E2  | Item<br>DR  
   
   
   
   | Volts<br>120   | -  
   
   
   
   
   | Amp<br>8.0 EA.   | KW   | Н  |  
   
   
   
   
  | r Ri<br>LC   | IP CO<br>DC. TY  | ONN.<br>TYPE REMARKS<br>8 CONVENIENCE OUTLET (2) RIP'S   |   |   |   |   
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| E2<br>E4   | DR<br>JB  
   
   
   
   | 120<br>120   | 1<br>1   
   
   
   
   
   | 8.0 EA.<br>VFY.  | KW   | Н  | IP AFF<br>50"<br>VFY   
   
   
   
   
  | F R<br>LC<br>WA  | IP CO<br>DC. TY  | ONN.         TYPE       REMARKS         8       CONVENIENCE OUTLET (2) RIP'S         1       BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI         1       & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.  |   |   |   |   
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| E2<br>E4<br>E5   | DR  
   
   
   
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   | 8.0 EA.<br>VFY.<br>VFY.  | KW   | H  | IP AFF<br>50"<br>VFY<br>VFY  
   
   
   
   
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  | F RILC<br>WA<br>WA<br>WA<br>WA<br>WA   | IP CO<br>DC. TY<br>ALL 3<br>ALL 4<br>ALL 3<br>ALL 3<br>ALL 3   | ONN.       REMARKS         8       CONVENIENCE OUTLET (2) RIP'S         1       BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI         1       & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER EVAP. COIL - VFY. REQUIREMENTS         3       BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w/         6       BEER SYSTEM POWER PACK   |   |   |   |   
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   | 120<br>120<br>208<br>120<br>120<br>120<br>120<br>208   | 1<br>1<br>3<br>1<br>1<br>1<br>1<br>1<br>3  
   
   
   
   
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   | 120<br>120<br>208<br>120<br>120<br>120<br>208<br>120<br>208<br>208<br>208<br>120<br>120  | 1<br>1<br>3<br>1<br>1<br>1<br>1<br>1<br>3<br>3<br>1<br>1<br>1  
   
   
   
   
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  | 120<br>120<br>208<br>120<br>120<br>120<br>208<br>120<br>208<br>208<br>208<br>208   | 1<br>1<br>3<br>1<br>1<br>1<br>1<br>1<br>3<br>3<br>1<br>1<br>1<br>1<br>1   
   
   
   
   
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   | RI           WA   | IP CO<br>DC. TY<br>ALL 3<br>ALL 4<br>ALL 4<br>ALL 4<br>ALL 4<br>ALL 4<br>ALL 3<br>ALL 3<br>ALL 3<br>ALL 3<br>ALL 3<br>ALL 3<br>ALL 3<br>ALL 4<br>ALL 4<br>A | ONN<br>TYPEREMARKS8CONVENIENCE OUTLET (2) RIP'S1BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.1BEER COOLER EVAP. COIL - VFY. REQUIREMENTS3BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w/6BEER SYSTEM POWER PACK6BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR6REACH-IN FREEZER1ICE MACHINE1WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE :<br>& OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.3WALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS w/3WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/8CONVENIENCE OUTLET (2) RIP'S  |   |   |   |  |   
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   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7  | 4.81   | VF<br>0.<br>VF<br>VF<br>0.   | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           VFY           Y.  
   
   
   
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   | 120         120         120         208         120  | 1<br>1<br>3<br>1<br>1<br>1<br>1<br>1<br>3<br>3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   
   
   
   
   
   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0   | 4.81   | VF<br>0.<br>VF<br>VF<br>0.   | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           VFY           Y.           VFY           Y.           S0"           50"           50"           50"           50"           50"           50"           50"           54"           FA           2  
   
   
   
   
  | RI           WA           WA    | IP       CO         NLL       I         MLL       I         ML       I   | ONN.       REMARKS         8       CONVENIENCE OUTLET (2) RIP'S         1       & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI         1       & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER EVAP. COIL - VFY. REQUIREMENTS         3       BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,         6       BEER SYSTEM POWER PACK         6       BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR         6       REACH-IN FREEZER         1       ICE MACHINE         1       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE I         8       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE SW,         9       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE SW,         1       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE SW,         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         4       CONVENIENCE OUTLET (2) RIP'S         8       CONVENIENCE OUTLET (2) RIP'S         8       CONVENIENCE OUTLET (2) RIP'S         8       CONVENIENCE OUTLET (2) RIP'S  |   |   |   |  
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   | 120<br>120<br>208<br>120<br>120<br>208<br>120<br>208<br>208<br>208<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  
   
   
   
   
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  | Ri           WA           CI           WA           CI           WA           CI           WA           WA           WA           WA           WA           WA           WA    | IP       CO         NLL       I  | ONN.       REMARKS         8       CONVENIENCE OUTLET (2) RIP'S         1       & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER EVAP. COIL - VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER EVAP. COIL - VFY. REQUIREMENTS         3       BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,         6       BEER SYSTEM POWER PACK         8       BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR         6       REACH-IN FREEZER         1       ICE MACHINE         1       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE : &         8       OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         3       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE : &         1       KOTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS         8       CONVENIENCE OUTLET (2) RIP'S         9       COMBI-OVEN w/VENTECH TYPE 1 HOOD         1,5       EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT         1   |   |   |   |  
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| E2<br>E4<br>E5<br>E6<br>E7<br>E15<br>E16<br>E17<br>E23<br>E24<br>E25<br>E34<br>E34<br>E34<br>E43<br>E43<br>E43<br>E45<br>E45<br>E45<br>E45<br>E56<br>E57   | DRJBJBJBJRDRJB  
   
   
   
   | 120         120         120         208         120  | 1<br>1<br>3<br>1<br>1<br>1<br>1<br>1<br>3<br>3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   
   
   
   
   
   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>8.0  | 4.81   | VF<br>0.<br>1.<br>VF<br>VF<br>0.   | IP         AFF           50"           VFY           VFY           Y.           VFY           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           Y. <td>RI           WA           WA</td> <td>IP       CO         NLL       I         MLL       I</td> <td>ONN.       REMARKS         8       CONVENIENCE OUTLET (2) RIP'S         1       &amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER EVAP. COIL - VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER EVAP. COIL - VFY. REQUIREMENTS         3       BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,         6       BEER SYSTEM POWER PACK         6       BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR         6       REACH-IN FREEZER         1       ICE MACHINE         1       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE I &amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         3       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE J &amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         3       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE J &amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         4       CONVENIENCE OUTLET (2) RIP'S         8       CONVENIENCE OUTLET (2) RIP'S         8       CONVENIENCE OUTLET (2) RIP'S         9       COMBI-OVEN w/VENTECH TYPE 1 HOOD         1,5       EXHAUST HOOD -</td>   
   
   
   
   | RI           WA           WA    | IP       CO         NLL       I         MLL       I   
  | ONN.       REMARKS         8       CONVENIENCE OUTLET (2) RIP'S         1       & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER EVAP. COIL - VFY. REQUIREMENTS, BY G.C.         1       BEER COOLER EVAP. COIL - VFY. REQUIREMENTS         3       BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,         6       BEER SYSTEM POWER PACK         6       BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR         6       REACH-IN FREEZER         1       ICE MACHINE         1       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE I & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         3       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE J & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         3       WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE J & OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         3       WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,         4       CONVENIENCE OUTLET (2) RIP'S         8       CONVENIENCE OUTLET (2) RIP'S         8       CONVENIENCE OUTLET (2) RIP'S         9       COMBI-OVEN w/VENTECH TYPE 1 HOOD         1,5       EXHAUST HOOD -  |   |   |   |  |  
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| E2<br>E4<br>E5<br>E6<br>E7<br>E15<br>E15<br>E17<br>E23<br>E24<br>E34<br>E34<br>E34<br>E34<br>E43<br>E43<br>E43<br>E43<br>E43<br>E4   | DRJBJBJBJRJRJRJBJRJB <td>120         120         120         208         120</td> <td>1         1</td> <td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.</td> <td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA</td> <td>VF<br/>0.<br/>VF<br/>0.<br/>VF<br/>0.<br/>0.</td> <td>IP         AFF           50"           VFY           VFY           Y.           5           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           S0"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           2           18"           20"           24"</td> <td>Ri           WA           WA</td> <td>IP       CO         NLL       I         MLL       I         MLL       I         NLL       I         MLL       I         NLL       I</td> <td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REJ<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,<br/>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1<br/>&amp; CONTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         &lt;</td>  
   
   
   
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  | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.  | 4.81<br>4.81<br>16.5-21.9<br>2.83<br>1.50 EA   | VF<br>0.<br>VF<br>0.<br>VF<br>0.<br>0.   | IP         AFF           50"           VFY           VFY           Y.           5           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           S0"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           2           18"           20"           24"  
   
   
   
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  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REJ<br>& OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,<br>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1<br>& OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1<br>& CONTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         <                                      |   |   |   |   
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| E2<br>E4<br>E5<br>E6<br>E7<br>E15<br>E15<br>E16<br>E23<br>E24<br>E24<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32   | DRJBJBJBJBJRDRJB <td>120         120         120         208         120         1</td> <td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td> <td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0</td> <td>4.81<br/></td> <td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.</td> <td>IP         AFF           50"           VFY           VFY           Y.           VFY           5           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.<td>RI           WA           WA</td><td>IP       CO         NLL       I         MLL       I</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REJ<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,<br/>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE T<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE T<br/>&amp; CONTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT</td></td>   
   
   
   
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   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0  | 4.81<br>   | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.   | IP         AFF           50"           VFY           VFY           Y.           VFY           5           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y. <td>RI           WA           WA</td> <td>IP       CO         NLL       I         MLL       I</td> <td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REJ<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,<br/>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE T<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE T<br/>&amp; CONTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT</td>   
   
   
   
  | RI           WA           WA    | IP       CO         NLL       I         MLL       I  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REJ<br>& OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,<br>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE T<br>& OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE T<br>& CONTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9      
  COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT            |   |   |   |  |   
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  | 120         120         120         208         120  | 1          1          1 <td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6</td> <td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA</td> <td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.</td> <td>IP         AFF           50"           VFY           VFY           78"           50"           50"           50"           78"           78"           78"           78"           78"           78"           78"</td> <td>RI           WA           LC           WA           WA</td> <td>IP       CO         NLL       I         NLL       I</td> <td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br/>BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; COTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP, COIL - VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP, COIL - VFY, REQUIREMENTS W,<br/>BEER COOLER EVAP, COIL - VFY, REQUIREMENTS W,<br/>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY.
REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         ICE MACHINE           2         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1<br/>&amp; CONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         WALK-IN COOLER UTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         CONVENIENCE OUTLET (2) RIP'S           1         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGH</td>   
   
   
   
  | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6  | 4.81<br>4.81<br>16.5-21.9<br>2.83<br>1.50 EA   | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.   | IP         AFF           50"           VFY           VFY           78"           50"           50"           50"           78"           78"           78"           78"           78"           78"           78"  
   
   
   
   | RI           WA           LC           WA           WA    | IP       CO         NLL       I  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br>BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br>& COTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP, COIL - VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP, COIL
- VFY, REQUIREMENTS W,<br>BEER COOLER EVAP, COIL - VFY, REQUIREMENTS W,<br>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         ICE MACHINE           2         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1<br>& OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1<br>& CONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         WALK-IN COOLER UTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         CONVENIENCE OUTLET (2) RIP'S           1         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGH |   |   |   |  |  
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| E2<br>E4<br>E5<br>E6<br>E7<br>E15<br>E16<br>E17<br>E23<br>E24<br>E24<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32<br>E32<br>E33<br>E41<br>E43<br>E45<br>E45<br>E45<br>E45<br>E57<br>E53<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E56<br>E57<br>E55<br>E57<br>E55<br>E55<br>E55<br>E55<br>E55<br>E55<br>E55  | DRJBJBJBJBJRJRJRJBJRJBJBJBJRJB <td>120         120         120         208         120         1</td> <td>1          1          1    <td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0</td><td>4.81<br/></td><td>VF<br/>0.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           S0"           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"</td><td>RI           WA           WA</td><td>IP       CO         NLL       I         NLL       I</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br/>BEER COOLER - E.C. TO INTERWIRE SWITCH_LIGHTS, PRESSURE REI<br/>&amp; COTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS w,           6         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         ICE MACHINE           2         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           4         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 3           5         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS S           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM</td></td>   
   
   
   
  | 120         120         120         208         120         1  | 1          1          1 <td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0</td> <td>4.81<br/></td> <td>VF<br/>0.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.</td> <td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           S0"           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"</td> <td>RI           WA           WA</td> <td>IP       CO         NLL       I         NLL       I</td> <td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br/>BEER COOLER - E.C. TO INTERWIRE SWITCH_LIGHTS, PRESSURE REI<br/>&amp; COTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS w,           6         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         ICE MACHINE           2         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           4         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 3           5      
  WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS S           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM</td>   
   
   
   
   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0   | 4.81<br>   | VF<br>0.<br>VF<br>VF<br>0.<br>0.<br>0.   | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           S0"           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"   
   
   
   
  | RI           WA           WA    | IP       CO         NLL       I  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br>BEER COOLER - E.C. TO INTERWIRE SWITCH_LIGHTS, PRESSURE REI<br>& COTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS w,           6         BEER COOLER COMPRESSOR - VFY.
REQUIREMENTS w,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         ICE MACHINE           2         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           4         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 3           5         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS S           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM   |   |   |   |  |  
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  | 120         120         120         208         120         120         120         120         120         120         120         120         120         208         120  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6</td><td>4.81<br/></td><td>VF<br/>0.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           VFY           5           VFY           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           2           18"           2           18"           33           18"</td><td>Ri           WF           WF</td><td>IP       CO         NLL       I         NLL       I</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br/>BEER COOLER - E.C. TO INTERWIRE SWITCH_LIGHTS, PRESSURE REI<br/>&amp; COTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS w,           6         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         ICE MACHINE           2         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1        
  4         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           5         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM</td></td<>  
   
   
   
   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6  | 4.81<br>   | VF<br>0.<br>VF<br>VF<br>0.<br>0.<br>0.   | IP         AFF           50"           VFY           VFY           Y.           VFY           5           VFY           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           50"           2           18"           2           18"           33           18"  
   
   
   
  | Ri           WF           WF    | IP       CO         NLL       I  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br>BEER COOLER - E.C. TO INTERWIRE SWITCH_LIGHTS, PRESSURE REI<br>& COTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS w,           6         BEER COOLER COMPRESSOR - VFY.
REQUIREMENTS w,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           1         ICE MACHINE           2         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           4         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           5         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w,           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM  |   |   |   |  |  
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| E2<br>E4<br>E5<br>E6<br>E7<br>E15<br>E16<br>E17<br>E23<br>E24<br>E23<br>E34<br>E34<br>E34<br>E34<br>E41<br>E33<br>E41<br>E43<br>E43<br>E43<br>E41<br>E43<br>E43<br>E43<br>E43<br>E43<br>E43<br>E43<br>E43<br>E43<br>E43  | DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJBJBJBJBJBJBJBJBJRJBJBJBJRJB <td>120         120         120         208         120</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77</td><td>VF<br/>0.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           50"           50"           50"           50"           2           18"           33           18"           33           18"           58"           58"</td><td>RI           WA           WA</td><td>IP       CO         NLL       I         NLL       I</td><td>ONN.<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br/>BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           walk-IN COOLER EVAP. COIL - VFY. REQUIREMENTS, bY G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS, bY G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br/>3           4         OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS w/<br/>4           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br/>3           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           1         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         G-BURNER RANGE w/CONVECTION OVEN BASE</td></td<></td>  
   
   
   
  | 120         120         120         208         120  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77</td><td>VF<br/>0.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           50"           50"           50"           50"           2           18"           33           18"           33           18"           58"           58"</td><td>RI           WA           WA</td><td>IP       CO         NLL       I         NLL       I</td><td>ONN.<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br/>BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE    
      walk-IN COOLER EVAP. COIL - VFY. REQUIREMENTS, bY G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS, bY G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br/>3           4         OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS w/<br/>4           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br/>3           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           1         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         G-BURNER RANGE w/CONVECTION OVEN BASE</td></td<>   
   
   
   
   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.   | 4.81<br>4.81<br>16.5-21.9<br>2.83<br>1.50 EA<br>1.80<br>4.77                                 | VF<br>0.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                         | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           50"           50"           50"           50"           2           18"           33           18"           33           18"           58"           58"   
   
   
   
  | RI           WA           WA    | IP       CO         NLL       I  | ONN.<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br>BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br>6           6         BIB SODA RACK - VFY. REQUIREMENTS
W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           walk-IN COOLER EVAP. COIL - VFY. REQUIREMENTS, bY G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS, bY G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br>3           4         OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS w/<br>4           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br>3           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           1         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         G-BURNER RANGE w/CONVECTION OVEN BASE  |   |   |   |  |   
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   | 120<br>120<br>120<br>208<br>120<br>120<br>120<br>208<br>120<br>208<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120   | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>2.83<br/>1.50
EA<br/>1.80<br/>4.77</td><td>VF<br/>0.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           78"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           58"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN.         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br/>BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           wALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS. BY G.C.           3         WALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS w/<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS w/<br/>&amp; CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         REFRIGERATED EQUIPMENT STAND           6.8         CONVENIENCE OUTLET           6</td></td<>  
   
   
   
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  | RI           WA           WA    | IP     CO       NLL     I       NLL  
   | ONN.         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br>BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           wALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS. BY G.C.           3         WALK-IN COOLER EVAP. COIL - VFY. REQUIREMENTS w/<br>& OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS w/<br>& CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         REFRIGERATED EQUIPMENT STAND           6.8         CONVENIENCE OUTLET           6   |   |   |   |  |   
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   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.  | 4.81<br>4.81<br>16.5-21.9<br>2.83<br>1.50 EA<br>1.80<br>4.77                                 | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.       | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           50"           50"           50"           50"           2           18"           33           18"           33           18"           58"           58"   
   
   
   
  | RI           WA           WA    | IP     CO       NLL     I       NLL  | ONN.<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S<br>BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER EVAP. COIL - VFY. REQUIREMENTS           3         BEER COOLER
COMPRESSOR - VFY. REQUIREMENTS w/<br>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           walk-IN COOLER EVAP. COIL - VFY. REQUIREMENTS, bY G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS, bY G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br>3           4         OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS w/<br>4           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS w/<br>3           4         CONVENIENCE OUTLET (2) RIP'S           5         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           1         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         G-BURNER RANGE w/CONVECTION OVEN BASE  |   |   |   |  |  
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| E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E24       E34       E34       E34       E45       E45       E46       E47       E43       E45       E46       E47       E53       E46       E57       E665       E667       E668       E73.1       "       E74.1       E47.1       E47.1       E56.1       E66.1       E67.1       E68.1       E74.1       E81.1       E82.1       E84.1  | DRJBJBJBJBJRJRJRJBJRJRJRJRJATAJB<   
   
   
   
   | 120         120         120         208         120  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0
EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           VFY           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.      Y.      Y.      Y.</td><td>Ri           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY, REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY, REQUIREMENTS W/<br/>(1)           6         BEER SYSTEM POWER PACK           6         BEER SUDA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           ************************************</td></td<>   
   
   
   
  | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>13.0 EA.<br>10.0<br>10.0<br>13.0 EA.<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0                             | 4.81<br>4.81<br>16.5-21.9<br>16.5-21.9<br>2.83<br>1.50 EA<br>1.80<br>4.77<br>1.73            | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           Y.           VFY           78"           0           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.      Y.      Y.      Y.   
   
   
   
   | Ri           WA           WA    | IP     CO       NLL     I       NLL  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY, REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY, REQUIREMENTS W/<br>(1)           6         BEER SYSTEM POWER PACK           6         BEER SUDA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           ************************************                              
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| E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E24       E34       E34       E34       E45       E47       E43       E441       E45       E46       E47       E56       E57       E662       E67       E668       E73       "       E73       "       E45       E67       E68       E73       "       E67       E68       E73       "       E74       E81       E82       E84       E84       E84       E84       E84  | DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJBJRJRJRJBJR <td>120         120         120         208         120         1</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>1</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           Y.           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           Y.      Y.      Y.      <tr td="" tr<=""><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCORECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br/>&amp; CONVENER DISCONECTS AS NEEDED. VFY. REQUIREMENTS BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br/>&amp; CONVENIENCE OUTLET (2) RIP'S REDUCTION ONECT SONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN W/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         REFRIGERATED EQUIPMENT STAND     &lt;</td></tr><tr><td>E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E66E67E68E73.1"E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E82.1E84.1</td><td>DRJBJBJBJBJRJRJRJBJRJRJRJRJATAJB&lt;</td><td>120         120         120         208         120    </td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>13.0
EA.<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           78"           50"           50"           2           18"           33           18"           33           18"           33           44"           58"           58"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY, REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY, REQUIREMENTS W/<br/>(1)           6         BEER SYSTEM POWER PACK           6         BEER SUDA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           ************************************</td></td<></td></tr><tr><td>E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E34       E45       E45       E46       E47       E53       E45       E46       E47       E53       E66       E67       E68       E73.1       E74.1       E73.1       E73.1       E74.1       E84.1       E73.1       E73.1       E73.1       E73.1       E73.1       E73.1       E74.1       E73.1       E73.1       E74.1       E74.1   &lt;</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td></td></tr><tr><td>E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E65E66E73E74E53E62E64E73E74E81E82E84E85E94E95E104</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR<td>120         120         120         208         120         1</td><td>1         1   
     1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>8.0<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"           33           24"      55"           50"</td><td>RI           WF           WF</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         &amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6</td></td<></td></td></tr><tr><td>E22       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E24       E23       E34       E34       E45       E46       E47       E45       E46       E47       E53       E46       E47       E53       E46       E57       E62       E66       E67       E68       E73       """"""""""""""""""""""""""""""""""""</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>Ri           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td></td></tr><tr><td>E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E45       E46       E47       E38       E46       E47       E53       E46       E47       E56       E66       E67       E68       E73.1       "       E73.1       "       E74       E82       E68       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E74.1       E82.1       E84.1       E82.1       E94.1       E94.1       E94.1       E94.1       E94.1       E104.1       E104.1</td><td>DRJBJBJBJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJBJRJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0
EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>14.0<br/>14.4<br/>10.0<br/>6.5<br/>VFY<br/>48.75<br/>5.4<br/>2.4 EA.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>9           3         BEER COOLER - COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           7         REACH-IN FREEZER<br/>1           1         ICE MACHINE<br/>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br/>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT<br/>1           1         FIRE SUPPRESSION SYSTEM<br/>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           7         CONVENIENCE OUTLET<br/>7           6</td></td<></td></td></tr></td></td<></td> | 120         120         120         208         120         1  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>1</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           Y.           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           Y.      Y.      Y.      <tr td="" tr<=""><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCORECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br/>&amp; CONVENER DISCONECTS AS NEEDED. VFY. REQUIREMENTS BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br/>&amp; CONVENIENCE OUTLET (2) RIP'S REDUCTION ONECT SONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN W/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         REFRIGERATED EQUIPMENT STAND    
&lt;</td></tr><tr><td>E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E66E67E68E73.1"E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E82.1E84.1</td><td>DRJBJBJBJBJRJRJRJBJRJRJRJRJATAJB&lt;</td><td>120         120         120         208         120    </td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           78"           50"           50"           2           18"           33           18"           33           18"           33           44"           58"           58"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY, REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY, REQUIREMENTS W/<br/>(1)           6         BEER SYSTEM POWER PACK           6         BEER SUDA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           ************************************</td></td<></td></tr><tr><td>E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E34       E45       E45       E46       E47       E53       E45       E46       E47       E53       E66       E67       E68       E73.1       E74.1       E73.1       E73.1       E74.1       E84.1       E73.1       E73.1       E73.1       E73.1       E73.1       E73.1       E74.1       E73.1       E73.1       E74.1       E74.1   &lt;</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER
SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td></td></tr><tr><td>E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E65E66E73E74E53E62E64E73E74E81E82E84E85E94E95E104</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>8.0<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"           33           24"      55"           50"</td><td>RI           WF           WF</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         &amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6</td></td<></td></td></tr><tr><td>E22       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E24       E23       E34       E34       E45       E46       E47       E45       E46       E47       E53       E46       E47       E53       E46       E57       E62       E66       E67       E68       E73       """"""""""""""""""""""""""""""""""""</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>Ri           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6    
    REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td></td></tr><tr><td>E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E45       E46       E47       E38       E46       E47       E53       E46       E47       E56       E66       E67       E68       E73.1       "       E73.1       "       E74       E82       E68       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E74.1       E82.1       E84.1       E82.1       E94.1       E94.1       E94.1       E94.1       E94.1       E104.1       E104.1</td><td>DRJBJBJBJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJBJRJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>14.0<br/>14.4<br/>10.0<br/>6.5<br/>VFY<br/>48.75<br/>5.4<br/>2.4 EA.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>9           3         BEER COOLER - COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           7         REACH-IN FREEZER<br/>1           1         ICE MACHINE<br/>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br/>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT<br/>1           1         FIRE SUPPRESSION SYSTEM<br/>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           7         CONVENIENCE OUTLET<br/>7           6</td></td<></td></td></tr></td></td<> | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>13.0 EA.<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>1 | 4.81<br>4.81<br>16.5-21.9<br>16.5-21.9<br>2.83<br>1.50 EA<br>1.80<br>4.77<br>2.44<br>1.7     | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           VFY           Y.           Y.           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           VFY           Y.           Y.      Y.      Y. <tr td="" tr<=""><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCORECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br/>&amp; CONVENER DISCONECTS AS NEEDED. VFY. REQUIREMENTS BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br/>&amp; CONVENIENCE OUTLET (2) RIP'S REDUCTION ONECT SONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN W/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         REFRIGERATED EQUIPMENT STAND     &lt;</td></tr>
<tr><td>E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E66E67E68E73.1"E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E82.1E84.1</td><td>DRJBJBJBJBJRJRJRJBJRJRJRJRJATAJB&lt;</td><td>120         120         120         208         120    </td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           78"           50"           50"           2           18"           33           18"           33           18"           33           44"           58"           58"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY, REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY, REQUIREMENTS W/<br/>(1)           6         BEER SYSTEM POWER PACK           6         BEER SUDA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           ************************************</td></td<></td></tr> <tr><td>E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E34       E45       E45       E46       E47       E53       E45       E46       E47       E53       E66       E67       E68       E73.1       E74.1       E73.1       E73.1       E74.1       E84.1       E73.1       E73.1       E73.1       E73.1       E73.1       E73.1       E74.1       E73.1       E73.1       E74.1       E74.1   &lt;</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER
PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td></td></tr> <tr><td>E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E65E66E73E74E53E62E64E73E74E81E82E84E85E94E95E104</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>8.0<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"           33           24"      55"           50"</td><td>RI           WF           WF</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         &amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6</td></td<></td></td></tr> <tr><td>E22       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E24       E23       E34       E34       E45       E46       E47       E45       E46       E47       E53       E46       E47       E53       E46       E57       E62       E66       E67       E68       E73       """"""""""""""""""""""""""""""""""""</td><td>DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>Ri           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6        
REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td></td></tr> <tr><td>E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E45       E46       E47       E38       E46       E47       E53       E46       E47       E56       E66       E67       E68       E73.1       "       E73.1       "       E74       E82       E68       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E74.1       E82.1       E84.1       E82.1       E94.1       E94.1       E94.1       E94.1       E94.1       E104.1       E104.1</td><td>DRJBJBJBJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJBJRJBJR<td>120         120         120         208         120         1</td><td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>14.0<br/>14.4<br/>10.0<br/>6.5<br/>VFY<br/>48.75<br/>5.4<br/>2.4 EA.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>9           3         BEER COOLER - COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           7         REACH-IN FREEZER<br/>1           1         ICE MACHINE<br/>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br/>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT<br/>1           1         FIRE SUPPRESSION SYSTEM<br/>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           7         CONVENIENCE OUTLET<br/>7           6</td></td<></td></td></tr> | RI           WA           WA    | IP     CO       NLL     I       NLL  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCORECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS W/<br>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br>& CONVENER DISCONECTS AS NEEDED. VFY. REQUIREMENTS BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br>& CONVENIENCE OUTLET (2) RIP'S REDUCTION ONECT SONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN W/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         REFRIGERATED EQUIPMENT STAND     <   | E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E66E67E68E73.1"E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E82.1E84.1 | DRJBJBJBJBJRJRJRJBJRJRJRJRJATAJB< | 120         120         120         208         120 | 1        
1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>13.0 EA.<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0<br/>10.0</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           78"           50"           50"           2           18"           33           18"           33           18"           33           44"           58"           58"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY, REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY, REQUIREMENTS W/<br/>(1)           6         BEER SYSTEM POWER PACK           6         BEER SUDA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           ************************************</td></td<> | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>13.0 EA.<br>10.0<br>10.0<br>13.0 EA.<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0 | 4.81<br>4.81<br>16.5-21.9<br>2.83<br>1.50 EA<br>1.80<br>4.77<br>2.44<br>1.7<br>1.73<br>0.78 | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           Y.           78"           50"           50"           2           18"           33           18"           33           18"           33           44"           58"           58"           50" | RI           WA           WA | IP     CO       NLL     I       NLL | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY, REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY, REQUIREMENTS W/<br>(1)           6         BEER SYSTEM POWER PACK           6         BEER SUDA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           ************************************ | E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E34       E45       E45       E46       E47       E53       E45       E46       E47       E53       E66       E67       E68       E73.1       E74.1       E73.1       E73.1       E74.1       E84.1       E73.1       E73.1       E73.1       E73.1       E73.1       E73.1       E74.1       E73.1       E73.1       E74.1       E74.1   < | DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJR <td>120         120         120         208         120         1</td> <td>1         1   
     1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td> | 120         120         120         208         120         1 | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<> | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 C | 4.81<br>4.81<br>16.5-21.9<br>2.83<br>1.50 EA<br>1.80<br>4.77<br>2.44<br>1.7<br>1.73<br>0.78 | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50" | RI           WA           WA | IP     CO       NLL     I       NLL | ONN<br>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION
SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         < | E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E65E66E73E74E53E62E64E73E74E81E82E84E85E94E95E104 | DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR <td>120         120         120         208         120         1</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>8.0<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"           33           24"      55"           50"</td><td>RI           WF           WF</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         &amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6</td></td<></td> | 120         120         120         208         120         1 | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>8.0<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"           33           24"      55"           50"</td><td>RI           WF           WF</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         &amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6</td></td<> | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>8.0<br>20.0 CKT.<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20 | 4.81<br>4.81<br>16.5-21.9<br>16.5-21.9<br>1.50 EA<br>1.50 EA<br>1.80<br>4.77<br>1.73<br>0.78 | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"         
 33           24"      55"           50" | RI           WF           WF | IP     CO       NLL     I       NLL | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         & OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6 | E22       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E24       E23       E34       E34       E45       E46       E47       E45       E46       E47       E53       E46       E47       E53       E46       E57       E62       E66       E67       E68       E73       """""""""""""""""""""""""""""""""""" | DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR <td>120         120         120         208         120         1</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>Ri           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td> | 120         120         120         208         120         1 | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>Ri           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5        
EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<> | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 C | 4.81<br>4.81<br>16.5-21.9<br>16.5-21.9<br>1.50 EA<br>1.50 EA<br>1.80<br>4.77<br>1.73<br>0.78 | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50" | Ri           WA           WA | IP     CO       NLL     I       NLL | ONN<br>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         < | E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E45       E46       E47       E38       E46       E47       E53       E46       E47       E56       E66       E67       E68       E73.1       "       E73.1       "       E74       E82       E68       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E74.1       E82.1       E84.1       E82.1       E94.1       E94.1       E94.1       E94.1       E94.1       E104.1       E104.1 | DRJBJBJBJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJBJRJBJR <td>120         120         120         208         120         1</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>14.0<br/>14.4<br/>10.0<br/>6.5<br/>VFY<br/>48.75<br/>5.4<br/>2.4 EA.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>9           3         BEER COOLER - COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           7         REACH-IN FREEZER<br/>1           1         ICE MACHINE<br/>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br/>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT<br/>1           1         FIRE SUPPRESSION SYSTEM<br/>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           7         CONVENIENCE OUTLET<br/>7           6</td></td<></td> | 120         120         120         208         120         1 | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>14.0<br/>14.4<br/>10.0<br/>6.5<br/>VFY<br/>48.75<br/>5.4<br/>2.4 EA.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF       
   50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>9           3         BEER COOLER - COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           7         REACH-IN FREEZER<br/>1           1         ICE MACHINE<br/>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br/>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT<br/>1           1         FIRE SUPPRESSION SYSTEM<br/>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           7         CONVENIENCE OUTLET<br/>7           6</td></td<> | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>14.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>14.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>14.0<br>3.6<br>20.0 CKT.<br>14.0<br>14.4<br>10.0<br>6.5<br>VFY<br>48.75<br>5.4<br>2.4 EA.<br>20.0 CKT. | 4.81<br>4.81<br>16.5-21.9<br>16.5-21.9<br>1.50 EA<br>1.50 EA<br>1.80<br>4.77<br>1.73<br>0.78 | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33" | RI           WA           WA | IP     CO       NLL     I       NLL | ONN<br>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br>9           3         BEER COOLER - COMPRESSOR - VFY. REQUIREMENTS W/<br>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br>6           7         REACH-IN FREEZER<br>1           1         ICE MACHINE<br>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT<br>1           1         FIRE SUPPRESSION SYSTEM<br>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br>8           8         CONVENIENCE OUTLET<br>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br>8           8         CONVENIENCE OUTLET<br>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br>8           7         CONVENIENCE OUTLET<br>7           6 |
| RI           WA                  | IP     CO       NLL     I       NLL   
   
   
   
   | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCORECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS W/<br>6           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br>& CONVENER DISCONECTS AS NEEDED. VFY. REQUIREMENTS BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE<br>& CONVENIENCE OUTLET (2) RIP'S REDUCTION ONECT SONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN W/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         REFRIGERATED EQUIPMENT STAND     < |  
   
   
   
   
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| E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E66E67E68E73.1"E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E74.1E82.1E84.1  | DRJBJBJBJBJRJRJRJBJRJRJRJRJATAJB<   
   
   
   
   | 120         120         120         208         120  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0
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  | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>13.0 EA.<br>10.0<br>10.0<br>13.0 EA.<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0                             | 4.81<br>4.81<br>16.5-21.9<br>2.83<br>1.50 EA<br>1.80<br>4.77<br>2.44<br>1.7<br>1.73<br>0.78  | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           Y.           78"           50"           50"           2           18"           33           18"           33           18"           33           44"           58"           58"           50"  
   
   
   
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  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERVIRE SWITCH, LIGHTS, PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED, VFY, REQUIREMENTS, BY G.C.           3         BEER COOLER EVAP. COIL - VFY, REQUIREMENTS           4         BEER COOLER COMPRESSOR - VFY, REQUIREMENTS W/<br>(1)           6         BEER SYSTEM POWER PACK           6         BEER SUDA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           ************************************  |   |   |   |  |  
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| E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E34       E45       E45       E46       E47       E53       E45       E46       E47       E53       E66       E67       E68       E73.1       E74.1       E73.1       E73.1       E74.1       E84.1       E73.1       E73.1       E73.1       E73.1       E73.1       E73.1       E74.1       E73.1       E73.1       E74.1       E74.1   < | DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJR <td>120         120         120         208         120         1</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td>   
   
   
   
  | 120         120         120         208         120         1  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>2.83<br/>1.50 EA<br/>1.80<br/>4.77<br/>2.44<br/>1.7<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<>  
   
   
   
   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.0<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 C   | 4.81<br>4.81<br>16.5-21.9<br>2.83<br>1.50 EA<br>1.80<br>4.77<br>2.44<br>1.7<br>1.73<br>0.78  | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"  
   
   
   
   
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| E22E4E5E6E7E15E16E17E23E24E34E34E41E43E45E46E57E62E65E66E73E74E53E62E64E73E74E81E82E84E85E94E95E104  | DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR <td>120         120         120         208         120         1</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>8.0<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"           33           24"      55"           50"</td><td>RI           WF           WF</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         &amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6</td></td<></td>   
   
   
   
  | 120         120         120         208         120         1  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>8.0<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"           33           24"      55"           50"</td><td>RI           WF           WF</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         &amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6</td></td<>  
   
   
   
   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>8.0<br>20.0 CKT.<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20     | 4.81<br>4.81<br>16.5-21.9<br>16.5-21.9<br>1.50 EA<br>1.50 EA<br>1.80<br>4.77<br>1.73<br>0.78 | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           50"           33           24"      55"           50"  
   
   
   
   
  | RI           WF           WF    | IP     CO       NLL     I       NLL  | ONN<br>TYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         & OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER E.C. TO INTERWIRE SWITCH. LIGHTS. PRESSURE REI<br>& OTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS W,           6         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           8         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KOTHER DISCONNECTS AS NEEDED, VFY. REQUIREMENTS, BY G.C.           3         WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE 1           8         KONVENIENCE OUTLET COUL - VFY. REQUIREMENTS W,           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,           4         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6   |   |   |   |  
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| E22       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E24       E23       E34       E34       E45       E46       E47       E45       E46       E47       E53       E46       E47       E53       E46       E57       E62       E66       E67       E68       E73       """"""""""""""""""""""""""""""""""""   | DRJBJBJBJRJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJRJBJRJBJR <td>120         120         120         208         120         1</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>Ri           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<></td>   
   
   
   
  | 120         120         120         208         120         1  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.0<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 C</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           VFY           Y.           VFY           0           78"           0           78"           VFY           78"           VFY           78"           VFY           78"           VFY           78"           0           78"           VFY           Y.           VFY           Y.           VFY           Y.           Y.           Y.           S0"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           58"           58"           58"           58"           58"           58"           58"           50"           50"</td><td>Ri           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>IYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE REI<br/>&amp; OTHER DISCONNECTS AS NEEDED. VFY. REQUIREMENTS, BY G.C.           1         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           3         BEER COOLER COMPRESSOR - VFY. REQUIREMENTS           4         BEER SYSTEM POWER PACK           6         BIB SODA RACK - VFY, REQUIREMENTS W/VENDOR           6         REACH-IN FREEZER           1         ICE MACHINE           WALK-IN COOLER - E.C. TO INTERWIRE SWITCH, LIGHTS, PRESSURE L           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           3         WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W, G.C.           4         OTHER DISCONECTS AS NEEDED. VFY. REQUIREMENTS W, G.C.           5         CONVENIENCE OUTLET (2) RIP'S           6         CONVENIENCE OUTLET (2) RIP'S           7         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1,5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT           1         FIRE SUPPRESSION SYSTEM           6         REFRIGERATED EQUIPMENT STAND           6         FBURNER RANGE w/CONVECTION OVEN BASE           8         &lt;</td></td<>  
   
   
   
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| E2       E4       E5       E6       E7       E15       E16       E17       E23       E24       E23       E34       E34       E34       E45       E46       E47       E38       E46       E47       E53       E46       E47       E56       E66       E67       E68       E73.1       "       E73.1       "       E74       E82       E68       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E73.1       "       E74.1       E82.1       E84.1       E82.1       E94.1       E94.1       E94.1       E94.1       E94.1       E104.1       E104.1   | DRJBJBJBJRJRJRJRJBJBJBJBJBJBJBJBJBJBJBJBJRJBJR <td>120         120         120         208         120         1</td> <td>1         <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>14.0<br/>14.4<br/>10.0<br/>6.5<br/>VFY<br/>48.75<br/>5.4<br/>2.4 EA.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>9           3         BEER COOLER - COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           7         REACH-IN FREEZER<br/>1           1         ICE MACHINE<br/>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br/>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT<br/>1           1         FIRE SUPPRESSION SYSTEM<br/>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           7         CONVENIENCE OUTLET<br/>7           6</td></td<></td>  
   
   
   
  | 120         120         120         208         120         1  | 1         1 <td< td=""><td>8.0 EA.<br/>VFY.<br/>VFY.<br/>15.7<br/>15.0<br/>8.7<br/>13.2<br/>VFY.<br/>VFY.<br/>VFY.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>8.0 EA.<br/>45.7-52.7<br/>20.0 CKT.<br/>20.0 CKT.<br/>3.0<br/>4.0<br/>8.0<br/>3.0<br/>13.0 EA.<br/>10.0<br/>4.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>20.0 CKT.<br/>14.0<br/>3.6<br/>20.0 CKT.<br/>14.0<br/>14.4<br/>10.0<br/>6.5<br/>VFY<br/>48.75<br/>5.4<br/>2.4 EA.<br/>20.0 CKT.</td><td>4.81<br/>4.81<br/>16.5-21.9<br/>16.5-21.9<br/>1.50 EA<br/>1.50 EA<br/>1.80<br/>4.77<br/>1.73<br/>0.78</td><td>VF<br/>0.<br/>1.<br/>VF<br/>VF<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.<br/>0.</td><td>IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33"</td><td>RI           WA           WA</td><td>IP     CO       NLL     I       NLL</td><td>ONN<br/>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE
SWITCH. LIGHTS, PRESSURE REI<br/>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br/>9           3         BEER COOLER - COMPRESSOR - VFY. REQUIREMENTS W/<br/>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br/>6           7         REACH-IN FREEZER<br/>1           1         ICE MACHINE<br/>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br/>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS &amp; FANS TO SWITCH (MOUNT SWIT<br/>1           1         FIRE SUPPRESSION SYSTEM<br/>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           8         CONVENIENCE OUTLET<br/>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br/>8           7         CONVENIENCE OUTLET<br/>7           6</td></td<>   
   
   
   
   | 8.0 EA.<br>VFY.<br>VFY.<br>15.7<br>15.0<br>8.7<br>13.2<br>VFY.<br>VFY.<br>VFY.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>8.0 EA.<br>45.7-52.7<br>20.0 CKT.<br>20.0 CKT.<br>3.0<br>4.0<br>8.0<br>3.0<br>13.0 EA.<br>10.0<br>4.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>14.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>20.0 CKT.<br>14.0<br>3.6<br>20.0 CKT.<br>20.0 CKT.<br>14.0<br>3.6<br>20.0 CKT.<br>14.0<br>14.4<br>10.0<br>6.5<br>VFY<br>48.75<br>5.4<br>2.4 EA.<br>20.0 CKT.   | 4.81<br>4.81<br>16.5-21.9<br>16.5-21.9<br>1.50 EA<br>1.50 EA<br>1.80<br>4.77<br>1.73<br>0.78 | VF<br>0.<br>1.<br>VF<br>VF<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0. | IP         AFF           50"           VFY           VFY           Y.           Y.           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           78"           0           50"           50"           50"           50"           50"           50"           2           18"           33           18"           33           18"           33           18"           33           18"           50"           33           44"           50"           33           18"           33"   
   
   
   
  | RI           WA           WA    | IP     CO       NLL     I       NLL  | ONN<br>PYPE         REMARKS           8         CONVENIENCE OUTLET (2) RIP'S           1         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br>8           3         BEER COOLER - E.C. TO INTERWIRE SWITCH. LIGHTS, PRESSURE REI<br>9           3         BEER COOLER - COMPRESSOR - VFY.
REQUIREMENTS W/<br>6           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br>6           6         BER SYSTEM POWER PACK           6         BIB SODA RACK - VFY. REQUIREMENTS W/VENDOR<br>6           7         REACH-IN FREEZER<br>1           1         ICE MACHINE<br>WALK-IN COOLER COMPRESSOR - VFY. REQUIREMENTS W,<br>3           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           8         CONVENIENCE OUTLET (2) RIP'S           9         COMBI-OVEN w/VENTECH TYPE 1 HOOD           1.5         EXHAUST HOOD - E.C. INTERWIRE LIGHTS & FANS TO SWITCH (MOUNT SWIT<br>1           1         FIRE SUPPRESSION SYSTEM<br>6           6         FBURNER RANGE w/CONVECTION OVEN BASE<br>8           8         CONVENIENCE OUTLET<br>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br>8           8         CONVENIENCE OUTLET<br>6           6         BURNER RANGE w/CONVECTION OVEN BASE<br>8           7         CONVENIENCE OUTLET<br>7           6   |   |   |   |  |   
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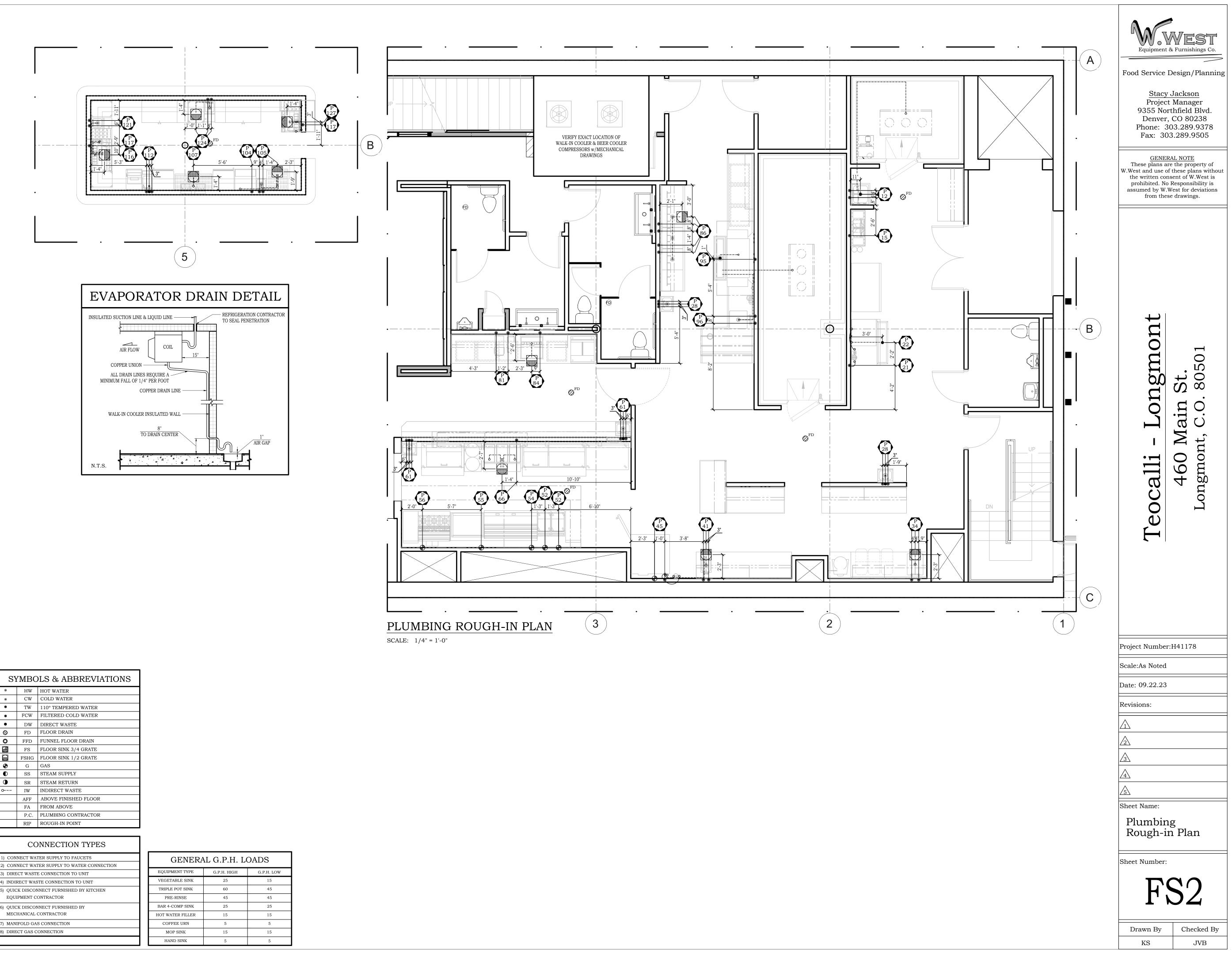
R TO ICE MACHINE	Stacy Jackson         Project Manager         9355 Northfield Blvd.         Denver, CO 80238         Phone: 303.289.9378         Fax: 303.289.9505
	GENERAL NOTE These plans are the property of W.West and use of these plans without the written consent of W.West is prohibited. No Responsibility is assumed by W.West for deviations from these drawings.
VENDOR VENDOR	ngmont St. 80501
IK O FLOOR SINK VK VK RELIEF PORT, C.	eocalli - Longr 460 Main St. Longmont, C.O. 805
w/VENDOR	Project Number:H41178
	Scale:As Noted         Date: 09.22.23         Revisions: $1$ $2$
NWNER Sw/OWNER FINAL CONNECTIONS IDOR NDOR MENTS w/VENDOR ENDOR	$ \begin{array}{c} \hline 3 \\ \hline 4 \\ \hline 5 \\ \hline \\ \hline$
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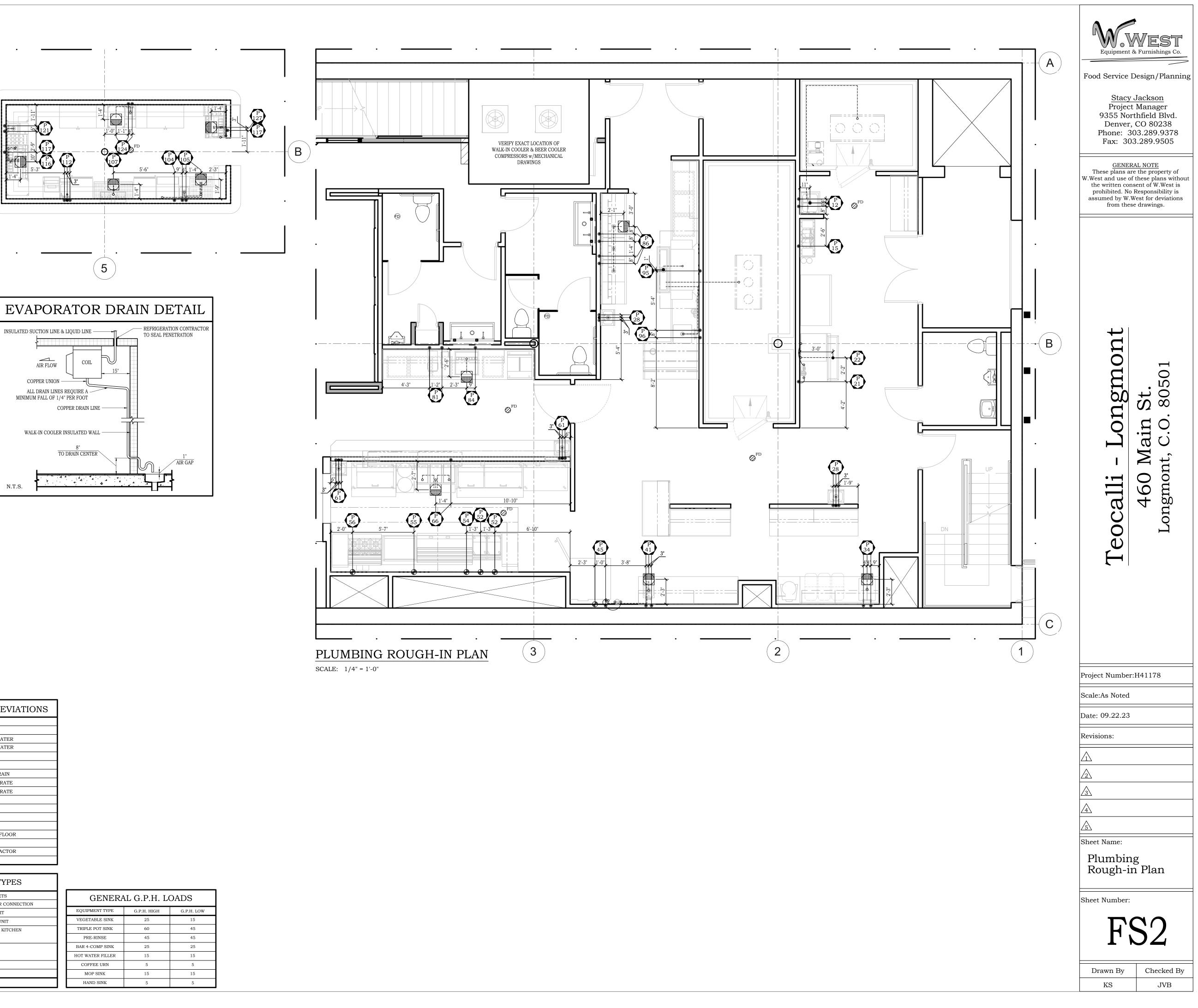
## PLUMBING NOTES:

- 1. ALL ROUGH-INS SHOWN RELATE TO FOOD SERVICE EQUIPMENT ONLY. SEE ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL PLUMBING REQUIREMENTS.
- 2. FINAL CONNECTIONS TO ALL EQUIPMENT BY PLUMBING CONTRACTOR, INCLUDING REQUIRED MATERIALS, SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PRESSURE REDUCING VALVES, PIPING, ESCUTCHEON PLATES, TUBING, ETC..
- 3. WATER QUALITY REQUIREMENT. THE RECOMMENDED MINIMUM WATER QUALITY STANDARDS WHETHER UN-TREATED OR PRE-TREATED, BASED UPON 10 HOURS OF USE PER DAY AND A DAILY BLOW DOWN, ARE AS FOLLOWS: - TOTAL DISSOLVED SOLIDS LESS THEN 300 P.P.M. - TOTAL ALKALINITY LESS THEN 85 P.P.M. - SILICA LESS THEN 13 P.P.M. GREATER THEN 7.5 P.P.M. - pH FACTOR
- 4. VERIFY ALL PLUMBING ROUGH-INS & LOCATIONS WITH OWNER, VENDOR, OR G.C. ON EXISTING EQUIPMENT OR OTHER EQUIPMENT NOT PROVIDED BY W.WEST.
- 5. PLUMBING CONTRACTOR TO FURNISH AND INSTALL THE FOLLOWING AS PER CODE
- a. ALL WATER, WASTE, GAS, AND STEAM SERVICE TO POINT OF ROUGH-IN AS SHOWN ON PLAN. ROUGH-IN OUTLETS TO STUB 4" OUT OF WALL AT HEIGHT INDICATED FROM FINISHED FLOOR OR CURB. ALL FLOOR OPENINGS ARE TO BE SEALED WATERTIGHT.
- b. PRESSURE REDUCING AND/OR REGULATING VALVES FOR DISHWASHERS, BOOSTER HEATERS, AND AS OTHERWISE NOTED, KITCHEN AREAS.
- c. ALL FLOOR SINKS, COMPLETE WITH TOP GRATES INDICATED AND REMOVABLE SEDIMENT BUCKETS SET FLUSH WITH FINISHED FLOOR, UNLESS NOTED OR AS PER LOCAL CODE.
- d. ALL WASTE LINES, DIRECT OR INDIRECT, EXCEPT AS NOTED, SHALL BE PITCHED DOWNWARD, ALL WASTE LINES SHALL HAVE ADEQUATE, CLEAN-OUT PROVISIONS.
- e. INDIRECT WASTE LINES FOR WALK-IN REFRIGERATOR/ FREEZER TO BE COPPER & PITCHED 1/4" TO 1'-0" (MINIMUM) AND WITH A "P" TRAP AT MINIMUM 2" ABOVE FLOOR SINK.
- f. HEATER TAPE WITH 35 WATTS PER LINEAL FOOT OF DRAIN LINE AND INSULATION OF ALL DRAIN LINES INSIDE WALK-IN FREEZER COMPARTMENTS.
- g. INSTALL FIRE CONTROL GAS SHUT-OFF VALVES AS PER SUPPLIED BY FIRE PROTECTION SYSTEM CONTRACTOR. (IF GAS COOKING EQUIPMENT IS USED.)
- h. VACUUM BREAKERS AS REQUIRED.
- i. INSULATION OF ALL STEAM, HOT WATER AND CON-DENSATE LINES IN KITCHEN. ALL SUCH LINES ARE TO BE COLOR CODED ACCORDING TO LOCAL CODES.
- j. CLEAN-OUT VALVES FOR STEAM CONDENSATE AND AIR LINES.
- k. ALL PIPING TO AND FROM EQUIPMENT SHALL BE KEPT AT A MINIMUM OF SIX INCHES (6") CLEAR ABOVE FINISHED FLOOR TO ALLOW CLEANING, OR PREVAILING LOCAL CODES.
- 1. IN-LINE WATER FILTERS ARE RECOMMENDED FOR THE FOLLOWING EQUIPMENT" (WATER FILTERS TO BE BY P.C UNLESS OTHER WISE NOTED.)
- WATER HEATERS
- BOOSTER HEATERS SINK HEATERS •
- DISHWASHERS • GLASSWASHERS •
- SODA SYSTEMS STEAM EQUIPMENT
- ICE MAKING MACHINES WATER STATIONS
- m. ALL HIGH TEMP. INDIRECT WASTE LINES TO BE COPPER. VERIFY WITH LOCAL CODE IF DRAIN-WATER TEMPERING KIT IS REQUIRED. IF REQUIRED BY CODE, PLUMBING ENGINEER IS TO NOTIFY W.WEST.
- 6. PLUMBING DIVISION TO INTERCONNECT DISHMACHINE WITH BOOSTER HEATER AND WATER TYPE VENTILATORS WITH CONTROL PANELS AS PER MANUFACTURER'S INSTRUCTIONS, WHEN APPLICABLE AND NOTED.
- 7. ALL VENT PIPES ARE TO BE CONCEALED IN WALLS OR COLUMN CHASES.
- 8. ALL LINES ROUTED THROUGH EQUIPMENT SHALL NOT INTERFERE WITH INTENDED USE OF, OR SERVICING OF EQUIPMENT.
- 9. INTERCONNECTION BETWEEN STEAM EQUIPMENT AND STEAM GENERATOR.
- 10. GREASE TRAP TO BE SPECIFIED AND LOCATED BY MECHANICAL ENGINEER AND PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR OR PLUMBING CONTRACTOR.
- 11. A GAS PRESSURE REGULATOR FOR EACH PIECE OF GAS FIRED EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY P.C. UNLESS OTHERWISE NOTED. IN ADDITION A HIGH PRESSURE GAS REGULATOR (VENTED) SHALL BE PROVIDED

AND INSTALLED BY P.C. WHEN NECESSARY.

- 12. FLEXIBLE GAS CONNECTIONS WITH OR WITHOUT QUICK DISCONNECT FEATURE SHALL BE PROVIDED WITH SHUT-OFF VALVE BY K.E.C.. THIS VALVE SHALL HAVE PERMANENT HANDLE, AND NOT BE LESS THEN THE NOMINAL SIZE OF THE CONNECTOR AND BE INSTALLED AT THE GAS PIPING OUTLET IMMEDIATELY AHEAD OF THE FLEXIBLE GAS CONNECTION. INSTALLED BY P.C..
- 13. PLUMBER SHALL PROVIDE ALL DRAINS FROM FIXTURES. INCLUDING WALK-IN BOX EVAPORATORS.
- 14. IF REQUIRED BY THE BUILDING DEPARTMENT, THE P.C., UNDER HIS PERMIT APPLICATION, SHALL PROVIDE DRAWINGS OR DIAGRAMS OF PIPING LAYOUT, SEWER PIPE SIZES, VENTING CONNECTIONS, ETC.
- 15. PLUMBER SHALL DETERMINE AND BE RESPONSIBLE FOR THE TOTAL PROJECT REQUIREMENTS AND VERIFY SIZE OF SERVICE REQUIRED FOR GAS OR WATER.
- 16. ALL PIPING, EXCEPT AS SHOWN OTHERWISE ON PLANS OR AS INSTRUCTED OTHERWISE BY THE ARCHITECT, SHALL BE RUN CONCEALED IN FURRED WALLS, PARTITIONS, FURRED CEILINGS, ETC. WHERE PIPING IS EXPOSED, IT SHALL BE RUN ADJACENT TO WALLS OR PARALLEL TO CONSTRUCTION IN NEAT AND ORDERLY FASHION AS DIRECTED BY THE ARCHITECT.
- 17. P.C. RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS. MODULAR BAR DIE WALL DOES NOT COME FROM FACTORY PRE-PLUMBED.
- 18. P.C. TO VERIFY LOCATIONS OF ALL CLEANOUTS WITH W.WEST PRIOR TO DRYWALL INSTALLATION.



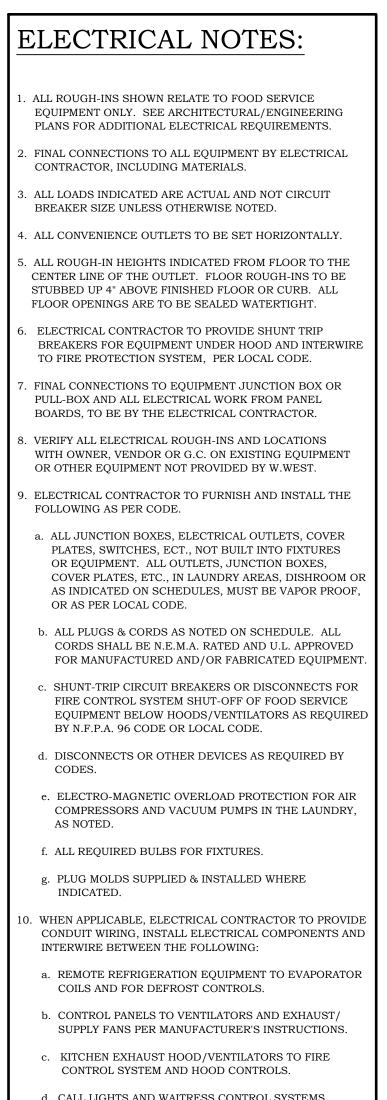


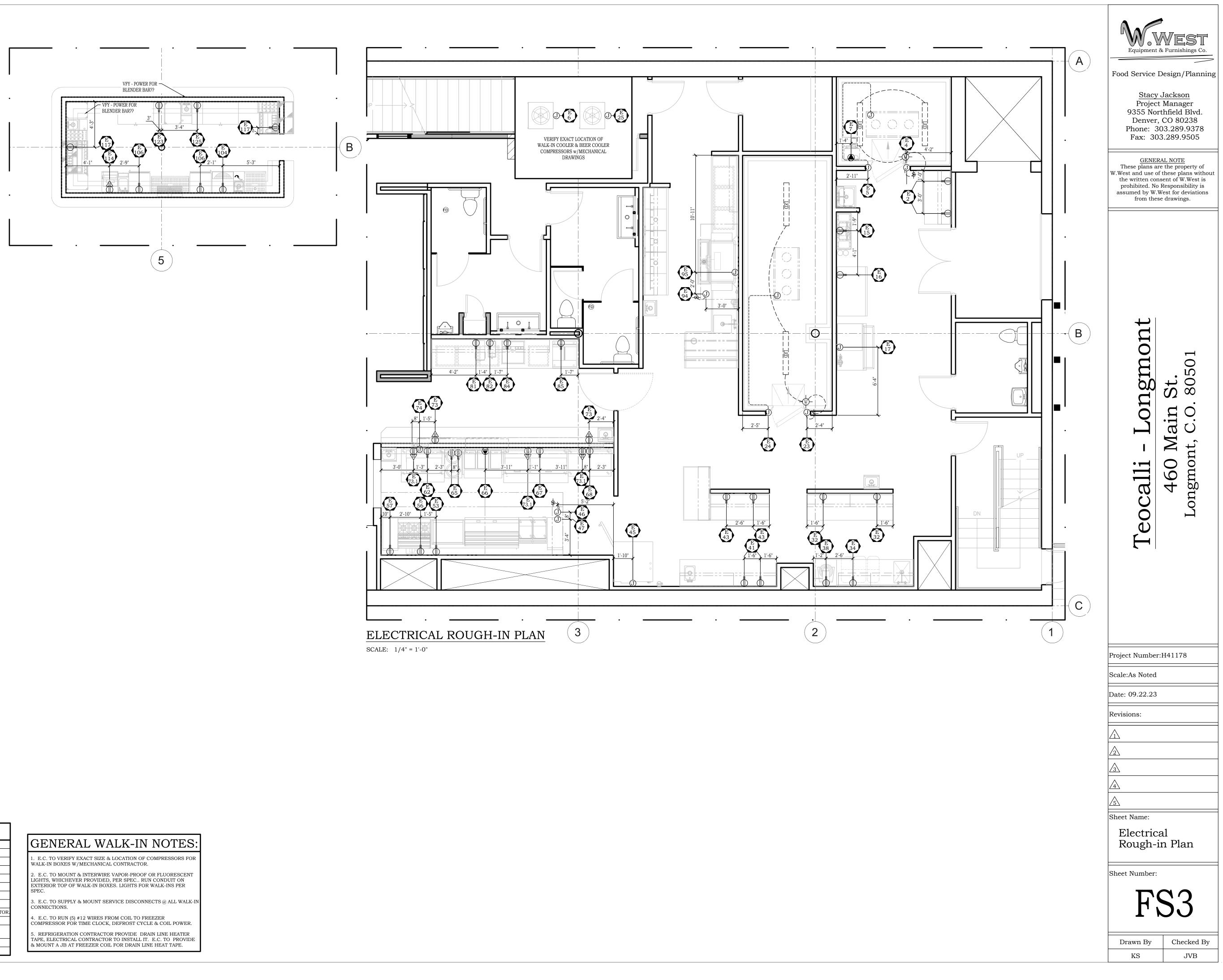
SY	SYMBOLS & ABBREVIATIONS								
۲	HW	HOT WATER							
۲	CW	COLD WATER							
۲	TW	110° TEMPERED WATER							
۲	FCW	FILTERED COLD WATER							
٠	DW	DIRECT WASTE							
Ø	FD	FLOOR DRAIN							
0	FFD	FUNNEL FLOOR DRAIN							
	FS	FLOOR SINK 3/4 GRATE							
	FSHG	FLOOR SINK 1/2 GRATE							
Ð	G	GAS							
lacksquare	SS	STEAM SUPPLY							
	SR	STEAM RETURN							
0	IW	INDIRECT WASTE							
	AFF	ABOVE FINISHED FLOOR							
	FA	FROM ABOVE							
	P.C.	PLUMBING CONTRACTOR							
	RIP	ROUGH-IN POINT							

CONNECTION TYPES

- CONNECT WATER SUPPLY TO FAUCETS
- ) DIRECT WASTE CONNECTION TO UNIT
- EQUIPMENT CONTRACTOR
- MECHANICAL CONTRACTOR
- ) MANIFOLD GAS CONNECTION
- 8) DIRECT GAS CONNECTION

GENERA	AL G.P.H. LO	DADS
EQUIPMENT TYPE	G.P.H. HIGH	G.P.H. L
VEGETABLE SINK	25	15
TRIPLE POT SINK	60	45
PRE-RINSE	45	45
BAR 4-COMP SINK	25	25
HOT WATER FILLER	15	15
COFFEE URN	5	5
MOP SINK	15	15
HAND SINK	5	5





- d. CALL LIGHTS AND WAITRESS CONTROL SYSTEMS.
- e. LIGHT FIXTURES, CHANDELIERS, ETC., LAMPS FOR ANY LIGHT FIXTURE ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS INDICATED ON THE LIGHTING SCHEDULES OR DRAWINGS.
- f. MODULE COUNTERS AND COMPONENTS OR EQUIPMENT MOUNTED ON COUNTERS.

	S	YMBOLS & ABBREVIATIONS
J	JB	JUNCTION BOX
€	DR	DUPLEX RECEPTACLE
€	QUAD	QUAD RECEPTACLE
۲	SPO	SPECIAL PURPOSE OUTLET
€	DR/DATA	P.O.S. POWER/DATA PORT
$\Rightarrow$	DR/DATA	P.O.S. POWER/DATA/TELE PORT
• ()	STUB UP 4"	STUB UP 4" TO JUNCTION BOX
•	STUB UP 4"	STUB UP 4" TO FLOOR MOUNTED OUTLET
	STUB UP 4"	STUB UP 4" TO FLOOR MOUNTED SPECIAL PURPOSE OUTLET
(Ĵ)	JB	JUNCTION BOX MOUNTED IN EQUIPMENT
€∋=	DR	DUPLEX RECEPTACLE MOUNTED IN/ON EQUIPMENT
∭.	JB	DROP CORD - PROVIDED & INSTALLED BY E.C.
\$	SW	SWITCH
•	FLEX	FLEX
Ø	PH	PHASE
	FO	FLOOR OUTLET
	RIP	ROUGH-IN POINT
	AMP	AMP
	KW	KILOWATT
	HP	HORSE POWER
	AFF	ABOVE FINISHED FLOOR
	FA	FROM ABOVE
	CLG	CEILING
	E.C.	ELECTRICAL CONTRACTOR

		KW	KILOWATT							
		HP	HORSE POWER							
	AFF ABOVE FINISHED FLOOR									
	FA FROM ABOVE									
		CLG	CEILING							
		E.C.	ELECTRICAL CONTRACTOR							
			CONNECTION TYPES							
1)	DIDEO									
1)			ICTION BOX ON EQUIPMENT.							
2)	DIRECT	r to ou i	TLETS INCLUDED WITH DISCONNECT.							
3)	DIRECT	г то jun	ICTION BOX THROUGH DISCONNECT.							
4)	DIRECT	r servic	E TO CIRCUIT BREAKER PANEL INCLUDED WITH EQUIPMENT.							
5)	REQUI	RES INTE	RWIRING BETWEEN CONTROLS AND EQUIPMENT.							
6)	CORD 8	& PLUG I	FURNISHED WITH EQUIPMENT.							
7)	CORD 8	& PLUG I	FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.							
8)	OUTLE	T FURNIS	SHED & INSTALLED BY ELECTRICAL CONTRACTOR.							
9)	OUTLE	Γ FURNIS	SHED WITH EQUIPMENT & INSTALLED BY ELECTRICAL CONTRACTOR							
10)	EQUIP	MENT INS	STALLED IN COUNTER & WIRED BY MANUFACTURER.							
11)			TION BY ELECTRICAL CONTRACTOR TO PRE-WIRED JUNCTION							

2) FLEX OUT OF WALL @ ROUGH-IN POINT (NO J-BOX REQ'D) 3) SEALTIGHT CONDUIT REQUIRED PER F.R.C.

## BUILDING CONDITIONS NOTES:

. ALL WORK INDICATED ON THIS PLAN AND IN THESE NOTES SHALL BE BY OTHER THEN THE KITCHEN EQUIPMENT CONTRACTOR, UNLESS OTHERWISE 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, NONABSORBENT AND DURABLE. WALL AND CEILINGS SHALL BE LIGHT COLORED, AS PER LOCAL CODES. LEAD BASED PAINT SHALL NOT BE USED.

- 8. PARTITION WALLS BETWEEN KITCHEN AREAS AND PUBLIC AREAS SHOULD BE CONSTRUCTED FOR MAXIMUM SOUND CONTROL.
- 4. GENERAL CONTRACTOR OR EQUIVALENT SHALL:
  - a. PROVIDE WALL REINFORCING OR BACKING AS REQUIRED FOR WALL MOUNTED KITCHEN EQUIPMENT. SEE WALL BACKING SCHEDULE FOR BACKING TYPES AND HEIGHTS.
  - b. SLOPE FLOORS TO FLOOR DRAINS OR FLOOR TROUGHS, AND FLOOR SINKS IF NOT ELEVATED.
  - c . PROVIDE DOOR/WALL OPENINGS AND/OR PASSAGES TO ASSURE ACCESS FOR ALL KITCHEN EQUIPMENT AND FRONT END ITEMS. COORDINATE SIZES WITH W.WEST.
  - d. PROVIDE DEPRESSIONS FOR WALK-IN COOLER/FREEZER. SMOOTH AND TRANSIT LEVEL, WHERE DEPRESSIONS ARE REQUIRED. DEPTH AS NOTED.
  - e. AFTER WALK-IN COOLER/FREEZER HAS BEEN INSTALLED BY W.WEST, FILL EXCESS DEPRESSION AROUND WALK-IN COOLER/FREEZER w/GROUT. FINISH FLOOR MATERIAL AND COVED BASE. PROVIDE ENCLOSURES FROM TOP OF WALK-IN TO FINISHED CEILING (IF REQUIRED) E.C. WALK-IN PENETRATIONS SHALL BE PROVIDED WITH ESCUTCHEON PLATES BY ELECTRICAL CONTRACTOR.
  - f. PROVIDE MASONRY PADS WITH TROWEL SMOOTH AND LEVEL FINISH AS REQUIRED. (SEE MASONRY CONTRACTOR NOTES)
  - g. PROVIDE FIRE RATED MATERIALS AND/OR INSULATION AS REQUIRED FOR EXHAUST DUCTS, VENT STACKS, HEAT PRODUCING EQUIPMENT, ROOF/WALL PENETRATIONS, ETC.., PER LOCAL CODES.
  - h. PROVIDE COVED BASE-MOULDING OR COVED INTEGRAL FLOOR MATERIALS AS REQUIRED AT ALL VERTICAL SURFACES FOR KITCHEN FLOORS.
  - i. PROVIDE FANS, DUCTWORK, CONTROLS, DUCT COLLAR, FINAL CONNECTION, HANGING OF HOODS, PERMITS, AND MAKE-UP AIR EQUIPMENT. THE ABOVE FURNISHED BY H.V.A.C. CONTRACTOR UNLESS NOTED ON DRAWING OR CONTRACT WITH W.WEST.
  - j. MECHANICAL CONTRACTOR (H.V.A.C.) TO BALANCE EXHAUST SYSTEM. (NEGATIVE PRESSURES IN THE FACILITY SHALL MEET LOCAL CODES.)
  - k. ALL ROOF CURBS AND ROOF JACKS TO BE PROVIDED AND INSTALLED BY G.C. INCLUDING RESEALING OF ROOF PENETRATIONS.

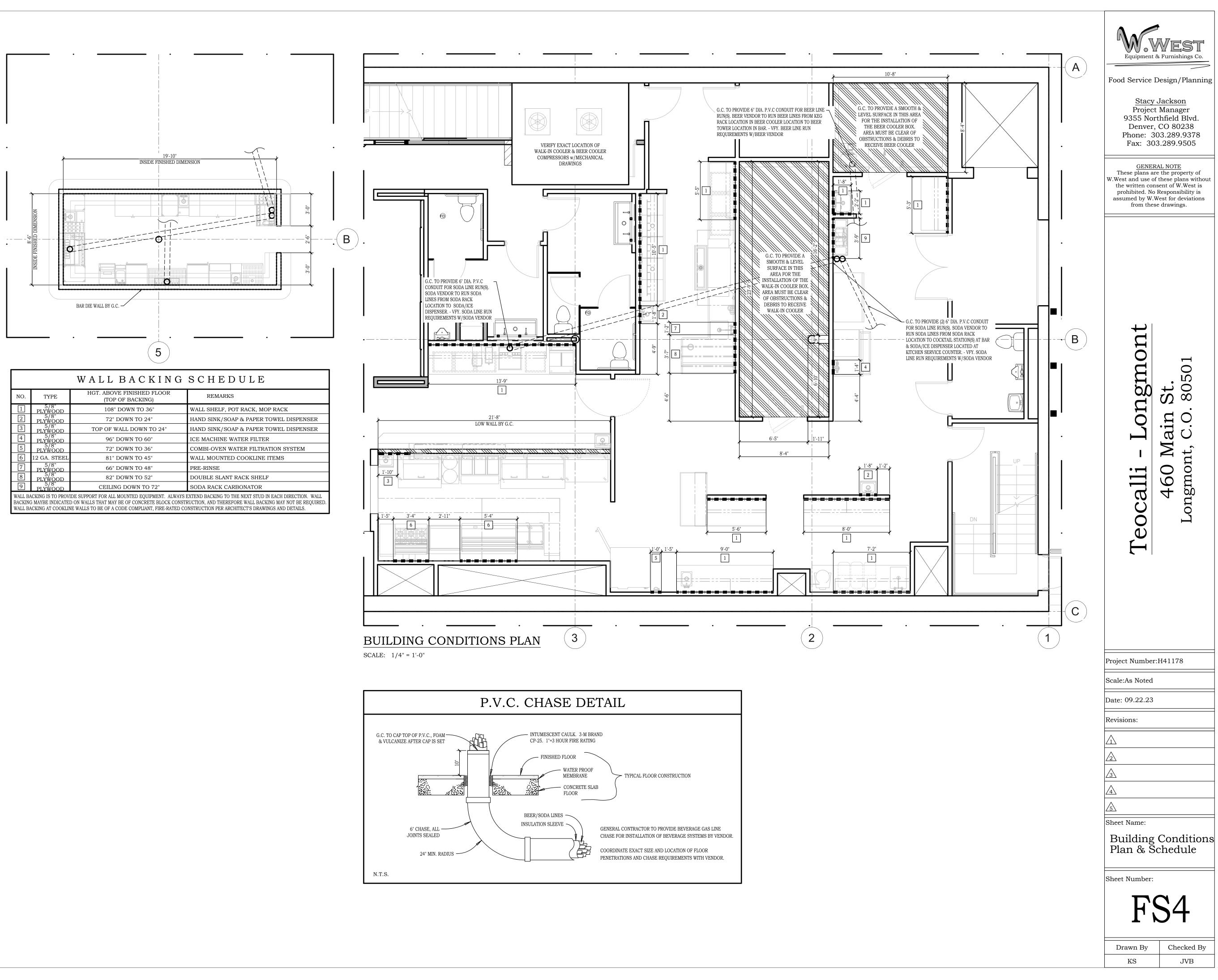
### ALL C.F.M. REQUIREMENTS SHOWN ON DRAWING TO BE VERIFIED BY M.C.

6. ALL DUCT COLLARS, CUT-OUTS AND PENETRATIONS IN HOODS TO BE LOCATED AND PROVIDED BY MECHANICAL CONTRACTOR IN FIELD.

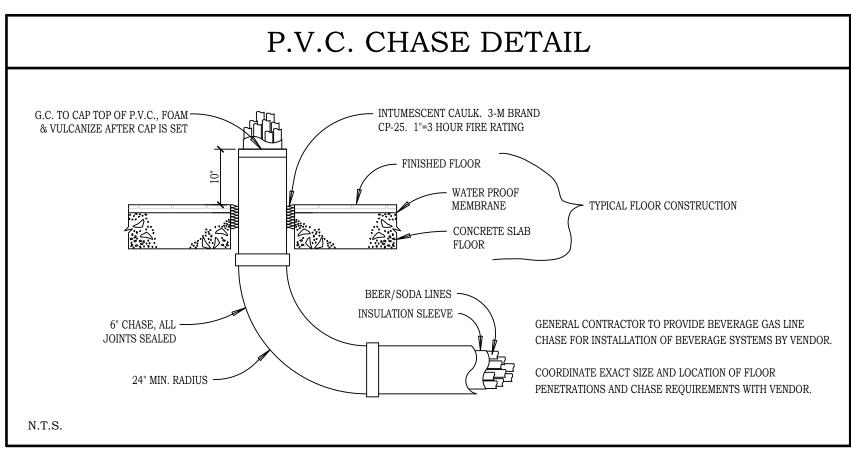
- M.C. TO PROVIDE ADEQUATE VENTILATION AT/AROUND ALL REMOTE COMPRESSORS & CONDENSERS.
- ALL REMOTE COMPRESSORS & CONDENSERS ARE TO
- BE LOCATED OUTDOORS UNLESS OTHERWISE NOTED BY ARCHITECT & MECHANICAL ENGINEERS.

CO2 SAFETY REQUIREMENTS TO BE VERIFIED BY MECHANICAL ENGINEER & DESIGNED PER LOCAL CODE.

SYMBOLS & ABBREVIATIONS								
	EXHAUST DUCT CONNECTION							
A	MAKE-UP AIR DUCT CONNECTION							
	SPECIAL PURPOSE EXHAUST DUCT w/GRILLE							
	FLOOR DEPRESSION							
	SMOOTH & LEVEL FLOOR							
	INSULATED FLOOR							
4	CONCRETE CURB							
	6" DIA. P.V.C. SODA/BEER CHASE							
•	1" DIA. P.V.C. CO2/NITROGEN CHASE							
	WALL BACKING							
— B —	BEER CHASE							
— c —	CO2 CHASE							
— N —	NITROGEN CHASE							
— s —	SODA CHASE							



-											
		WALL BACKING	SCHEDU								
NO.	TYPE	HGT. ABOVE FINISHED FLOOR (TOP OF BACKING)	REMARKS								
1	5/8" Plywood	108" DOWN TO 36"	WALL SHELF, POT RAC								
2	5/8" PLYWOOD	72" DOWN TO 24"	HAND SINK/SOAP & P.								
3	5/8" PLYWOOD	TOP OF WALL DOWN TO 24"	HAND SINK/SOAP & P.								
4	5/8" PLYWOOD	96" DOWN TO 60"	ICE MACHINE WATER								
5	5/8" PLYWOOD	72" DOWN TO 36"	COMBI-OVEN WATER								
6	12 GA. STEEL	81" DOWN TO 45"	WALL MOUNTED COO								
7	5/8" PLYWOOD	66" DOWN TO 48"	PRE-RINSE								
8	5/8" Plywood	82" DOWN TO 52"	DOUBLE SLANT RACK								
9	5/8" Plywood	CEILING DOWN TO 72"	SODA RACK CARBONA								
BACKIN	WALL BACKING IS TO PROVIDE SUPPORT FOR ALL MOUNTED EQUIPMENT. ALWAYS EXTEND BACKING TO THE NEX BACKING MAYBE INDICATED ON WALLS THAT MAY BE OF CONCRETE BLOCK CONSTRUCTION, AND THEREFORE WA WALL BACKING AT COOKLINE WALLS TO BE OF A CODE COMPLIANT, FIRE-RATED CONSTRUCTION PER ARCHITECT										



## BUILDING CONDITIONS NOTES:

1. ALL WORK INDICATED ON THIS PLAN AND IN THESE NOTES SHALL BE BY

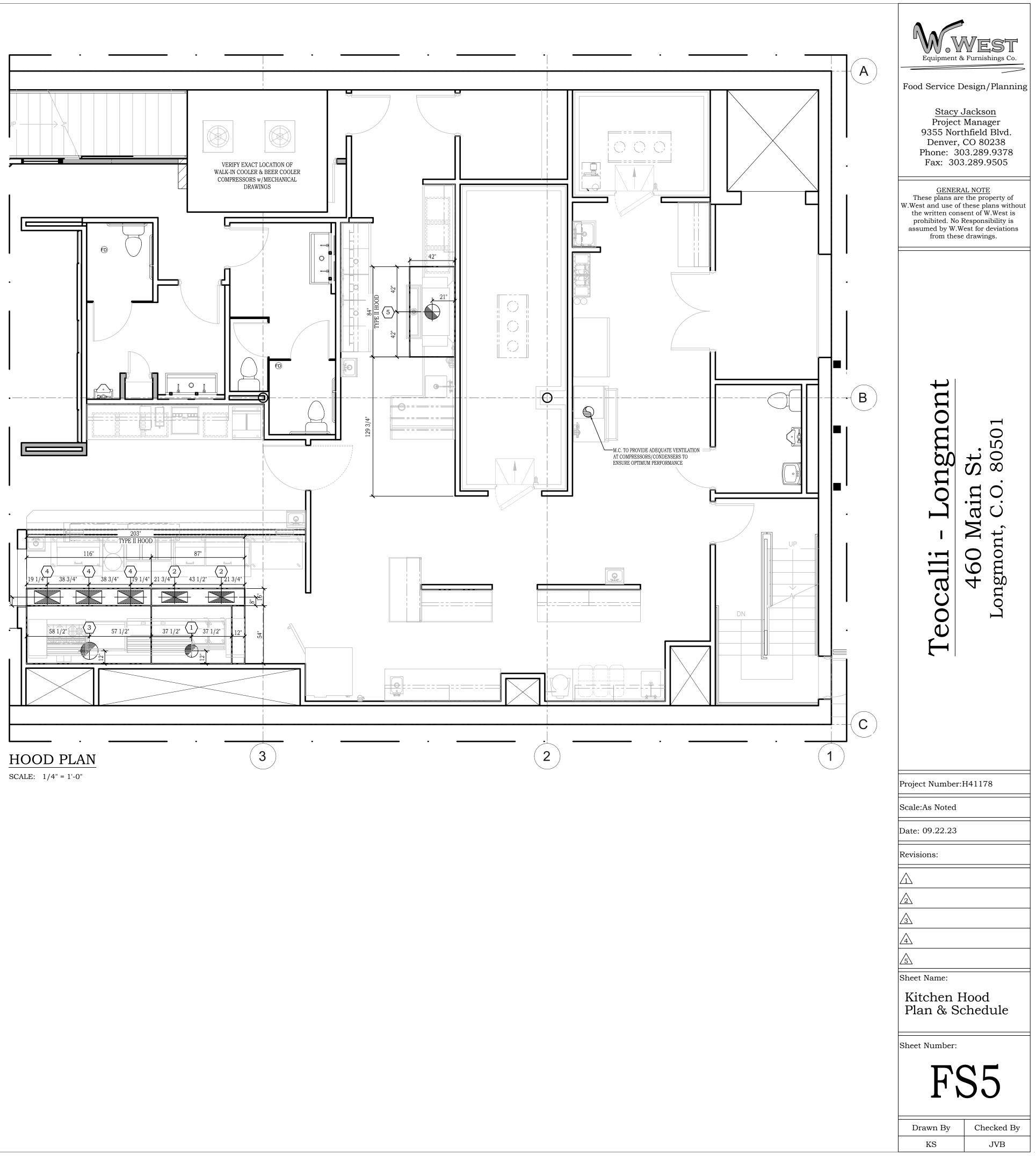
	RK INDICATED ON THIS PLAN AND IN THESE NOTES SHALL BE BY IN THE KITCHEN EQUIPMENT CONTRACTOR, UNLESS OTHERWISE
2. WALLS, F AND BAR AF ARE PREPAT AND DURAE	FLOORS, AND CEILINGS IN KITCHEN, PREP, SERVICE, WASHING REAS OR ANY OTHER LOCATION WHERE FOOD OR BEVERAGES RED SHALL BE SMOOTH, EASILY CLEANABLE, NONABSORBENT BLE. WALL AND CEILINGS SHALL BE LIGHT COLORED, AS PER ES. LEAD BASED PAINT SHALL NOT BE USED.
	ON WALLS BETWEEN KITCHEN AREAS AND PUBLIC AREAS SHOULD SUCTED FOR MAXIMUM SOUND CONTROL.
4. GENERA	L CONTRACTOR OR EQUIVALENT SHALL:
a.	PROVIDE WALL REINFORCING OR BACKING AS REQUIRED FOR WALL MOUNTED KITCHEN EQUIPMENT. SEE WALL BACKING SCHEDULE FOR BACKING TYPES AND HEIGHTS.
b.	SLOPE FLOORS TO FLOOR DRAINS OR FLOOR TROUGHS, AND FLOOR SINKS IF NOT ELEVATED.
c .	PROVIDE DOOR/WALL OPENINGS AND/OR PASSAGES TO ASSURE ACCESS FOR ALL KITCHEN EQUIPMENT AND FRONT END ITEMS. COORDINATE SIZES WITH W.WEST.
d.	PROVIDE DEPRESSIONS FOR WALK-IN COOLER/FREEZER. SMOOTH AND TRANSIT LEVEL, WHERE DEPRESSIONS ARE REQUIRED. DEPTH AS NOTED.
	AFTER WALK-IN COOLER/FREEZER HAS BEEN INSTALLED BY W.WEST, FILL EXCESS DEPRESSION AROUND WALK-IN COOLER/FREEZER w/GROUT. FINISH FLOOR MATERIAL AND COVED BASE. PROVIDE ENCLOSURES FROM TOP OF WALK-IN TO FINISHED CEILING (IF REQUIRED) E.C. WALK-IN PENETRATIONS SHALL BE PROVIDED WITH ESCUTCHEON PLATES BY ELECTRICAL CONTRACTOR.
	PROVIDE MASONRY PADS WITH TROWEL SMOOTH AND LEVEL FINISH AS REQUIRED. (SEE MASONRY CONTRACTOR NOTES)
	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 COVED BASE-MOULDING OR COVED INTEGRAL FLOOR MATERIALS AS REQUIRED AT ALL VERTICAL SURFACES FOR KITCHEN FLOORS.
	PROVIDE FANS, DUCTWORK, CONTROLS, DUCT COLLAR, FINAL CONNECTION, HANGING OF HOODS, PERMITS, AND MAKE-UP AIR EQUIPMENT. THE ABOVE FURNISHED BY H.V.A.C. CONTRACTOR UNLESS NOTED ON DRAWING OR CONTRACT WITH W.WEST.
	MECHANICAL CONTRACTOR (H.V.A.C.) TO BALANCE EXHAUST SYSTEM. (NEGATIVE PRESSURES IN THE FACILITY SHALL MEET LOCAL CODES.)
1	ALL ROOF CURBS AND ROOF JACKS TO BE PROVIDED AND INSTALLED BY G.C. INCLUDING RESEALING OF ROOF PENETRATIONS.
5. ALL C.F.I VERIFIED B	M. REQUIREMENTS SHOWN ON DRAWING TO BE Y M.C.
HOODS TO	T COLLARS, CUT-OUTS AND PENETRATIONS IN BE LOCATED AND PROVIDED BY MECHANICAL OR IN FIELD.
	PROVIDE ADEQUATE VENTILATION AT/AROUND E COMPRESSORS & CONDENSERS.
BE LOCATE	MOTE COMPRESSORS & CONDENSERS ARE TO D OUTDOORS UNLESS OTHERWISE NOTED BY & MECHANICAL ENGINEERS.
	FETY REQUIREMENTS TO BE VERIFIED BY MECHANICAL & DESIGNED PER LOCAL CODE.
SYM	IBOLS & ABBREVIATIONS
	EXHAUST DUCT CONNECTION
	MAKE-UP AIR DUCT CONNECTION
	SPECIAL PURPOSE EXHAUST DUCT w/GRILLE
	FLOOR DEPRESSION
	SMOOTH & LEVEL FLOOR
	INSULATED FLOOR
	CONCRETE CURB
	6" DIA. P.V.C. SODA/BEER CHASE
•	1" DIA. P.V.C. CO2/NITROGEN CHASE
	WALL BACKING
— B —	BEER CHASE
<u> </u>	CO2 CHASE

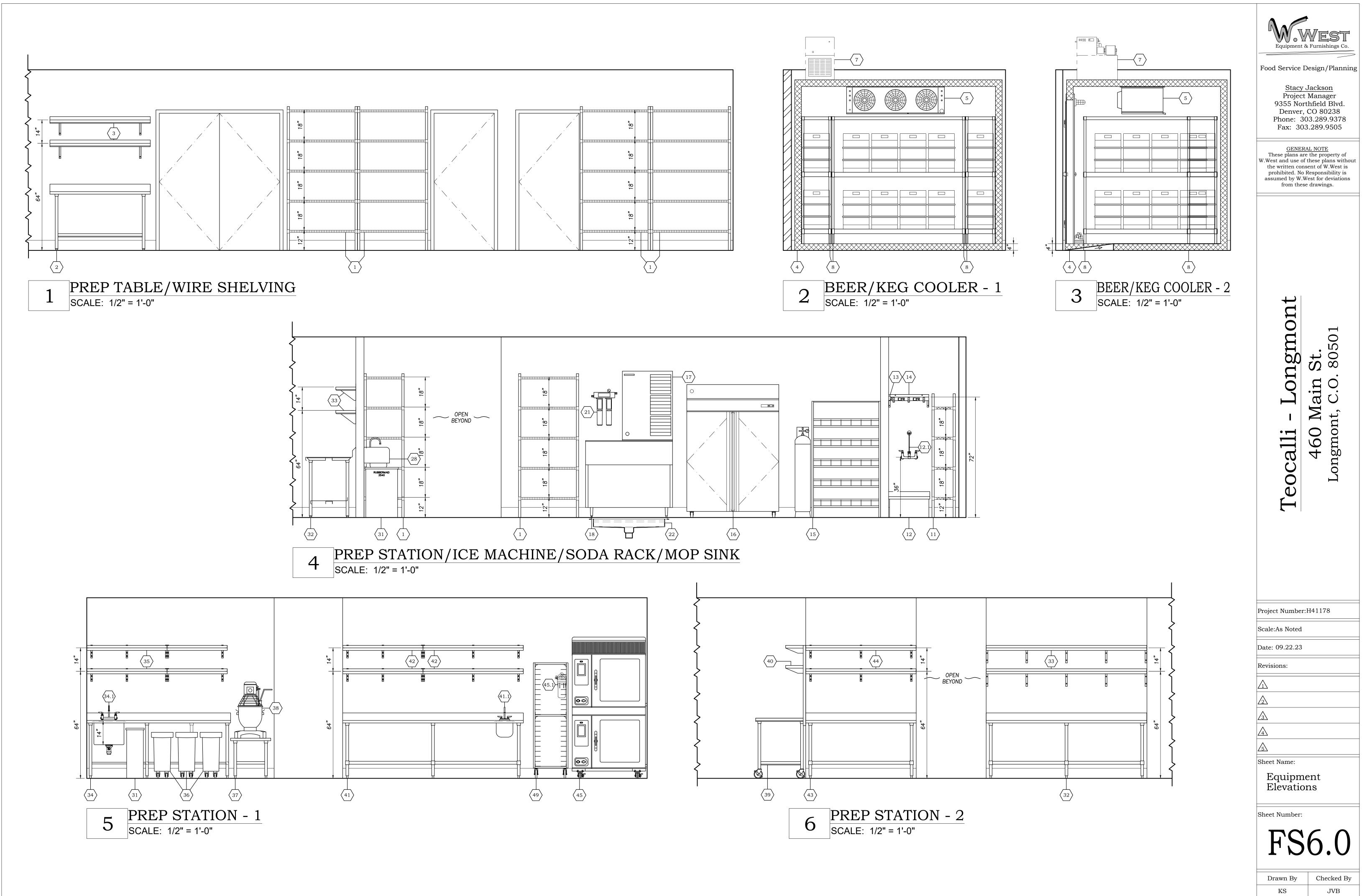
		VI	ENTI	LATI	ON SCHED
		C.F	С.М.	W.G.S.P.	
No.	Size	Exhaust	Make-up	@Collar	Remarks
$\langle 1 \rangle$	12" DIA.	1406		-0.692"	EXHAUST DUCT COLLA
$\langle 2 \rangle$	10" x 24" EA.		632 EA.	0.214" EA.	(2) SUPPLY DUCT COLL
3	16" DIA.	2635		-1.080"	EXHAUST DUCT COLLA
$\langle 4 \rangle$	12" x 24" EA.		597 EA.	0.160" EA.	(3) SUPPLY DUCT COLL
(5)	14" DIA.	1400		-0.173"	EXHAUST DUCT COLLA

— N — NITROGEN CHASE

- S - SODA CHASE

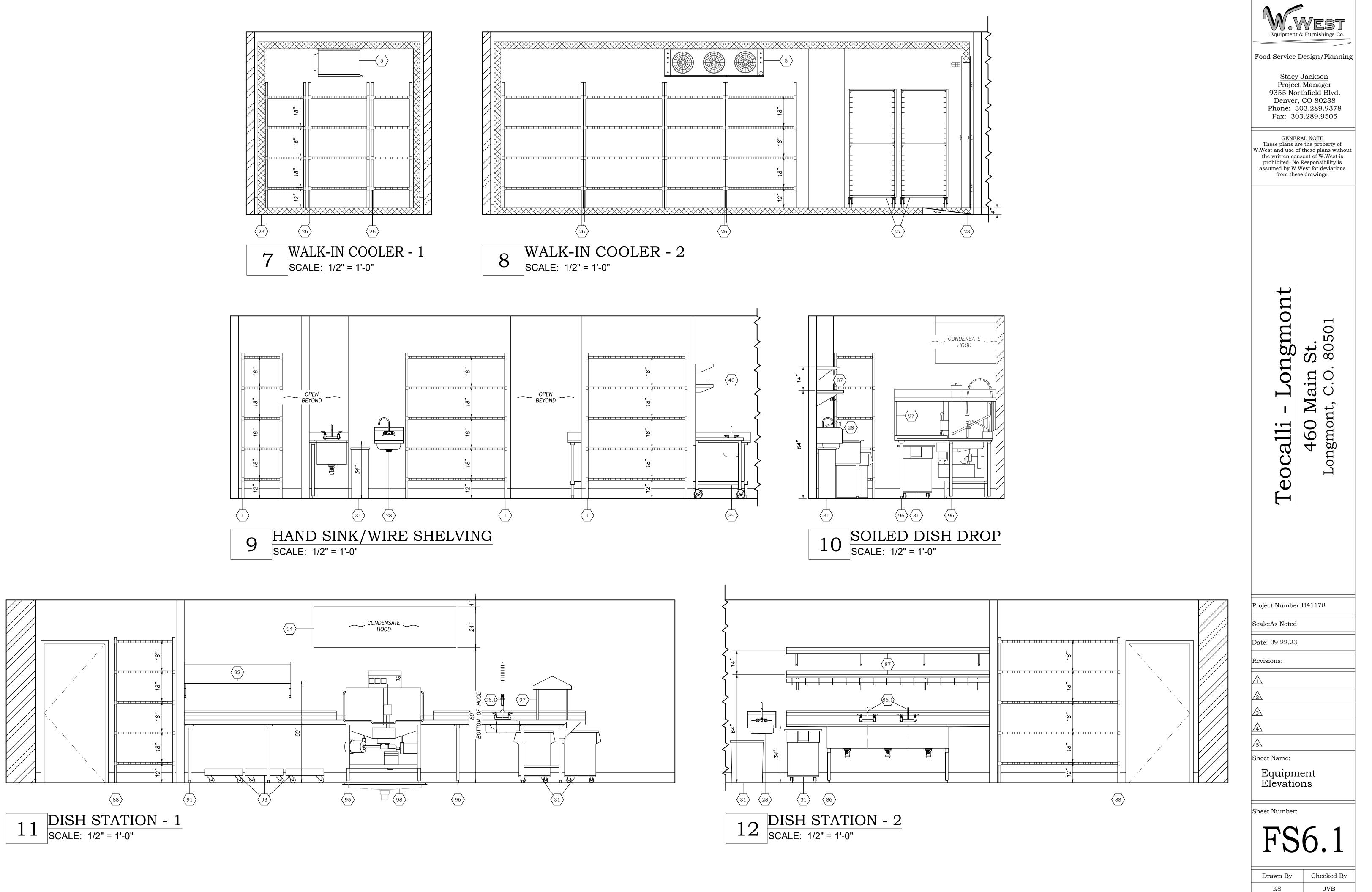
## ) U L E AR LARS LAR LARS LAR

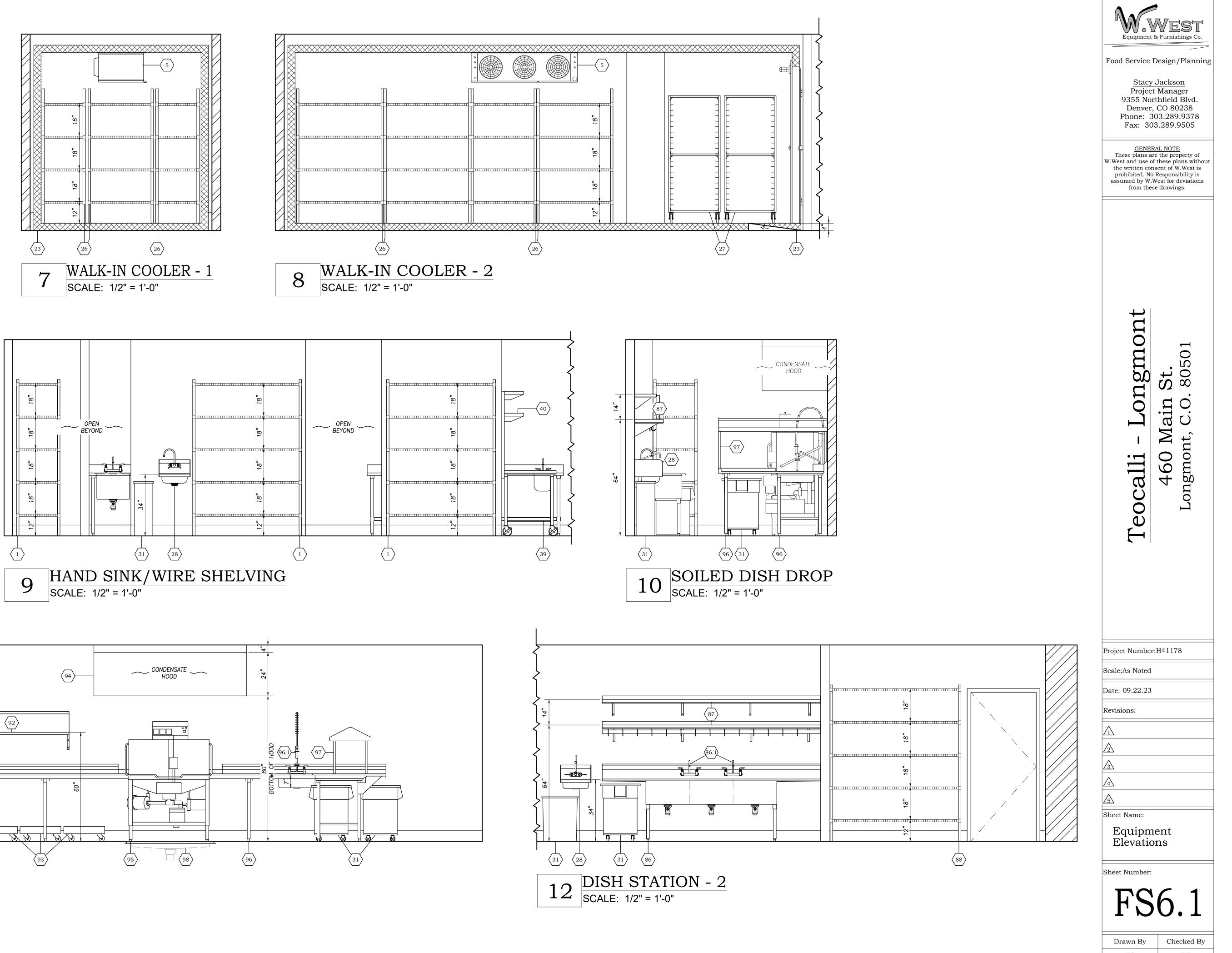


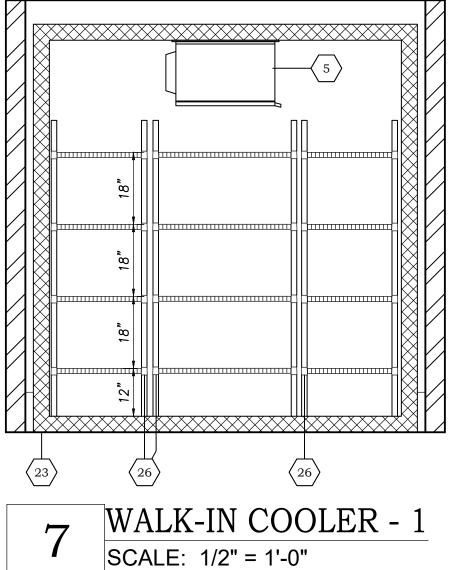


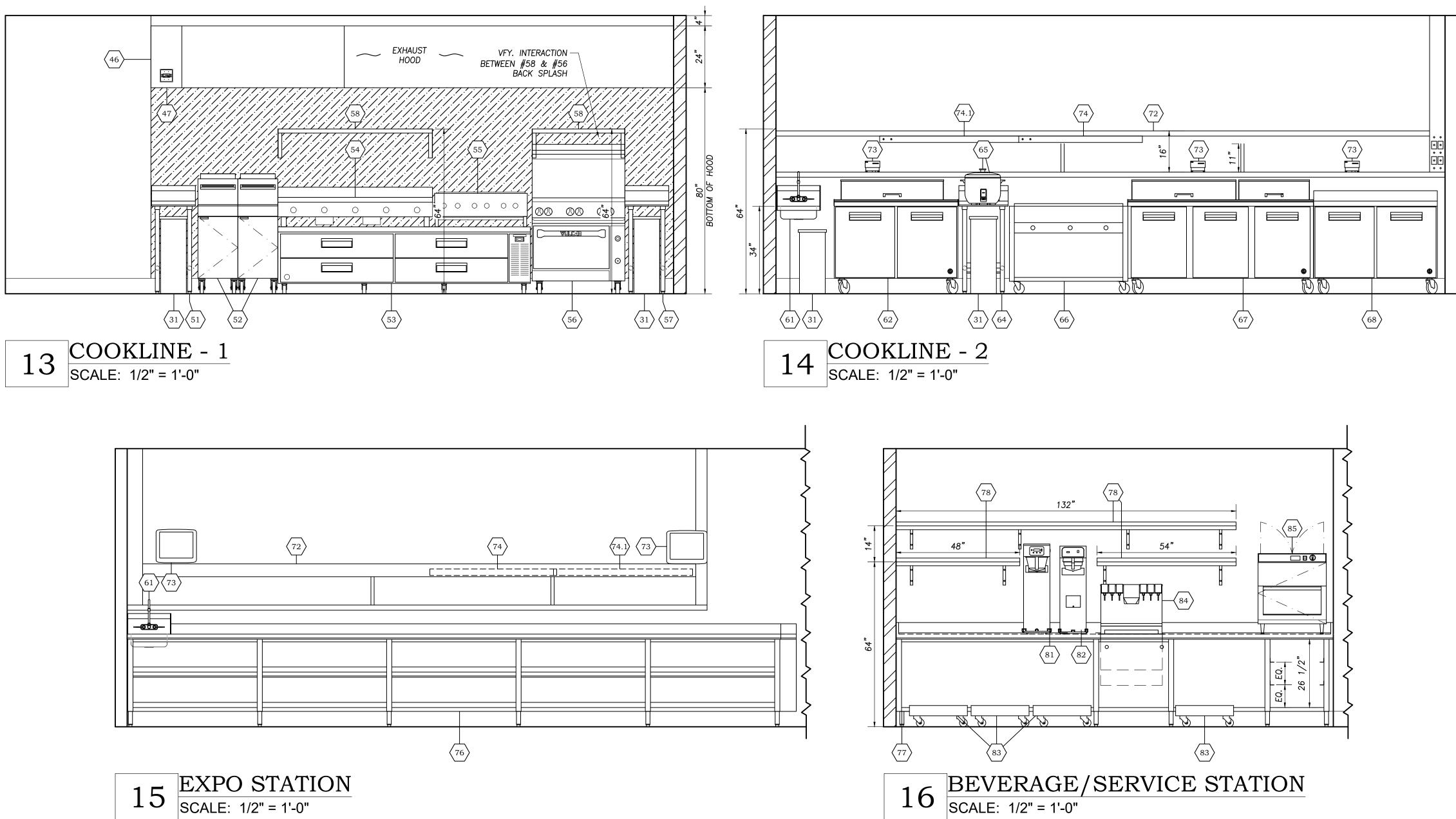
V. WEST EQUIPMENT 9/22/2023 10:51 AM; PLOTTED BY:JEFF VAN BENSCHO

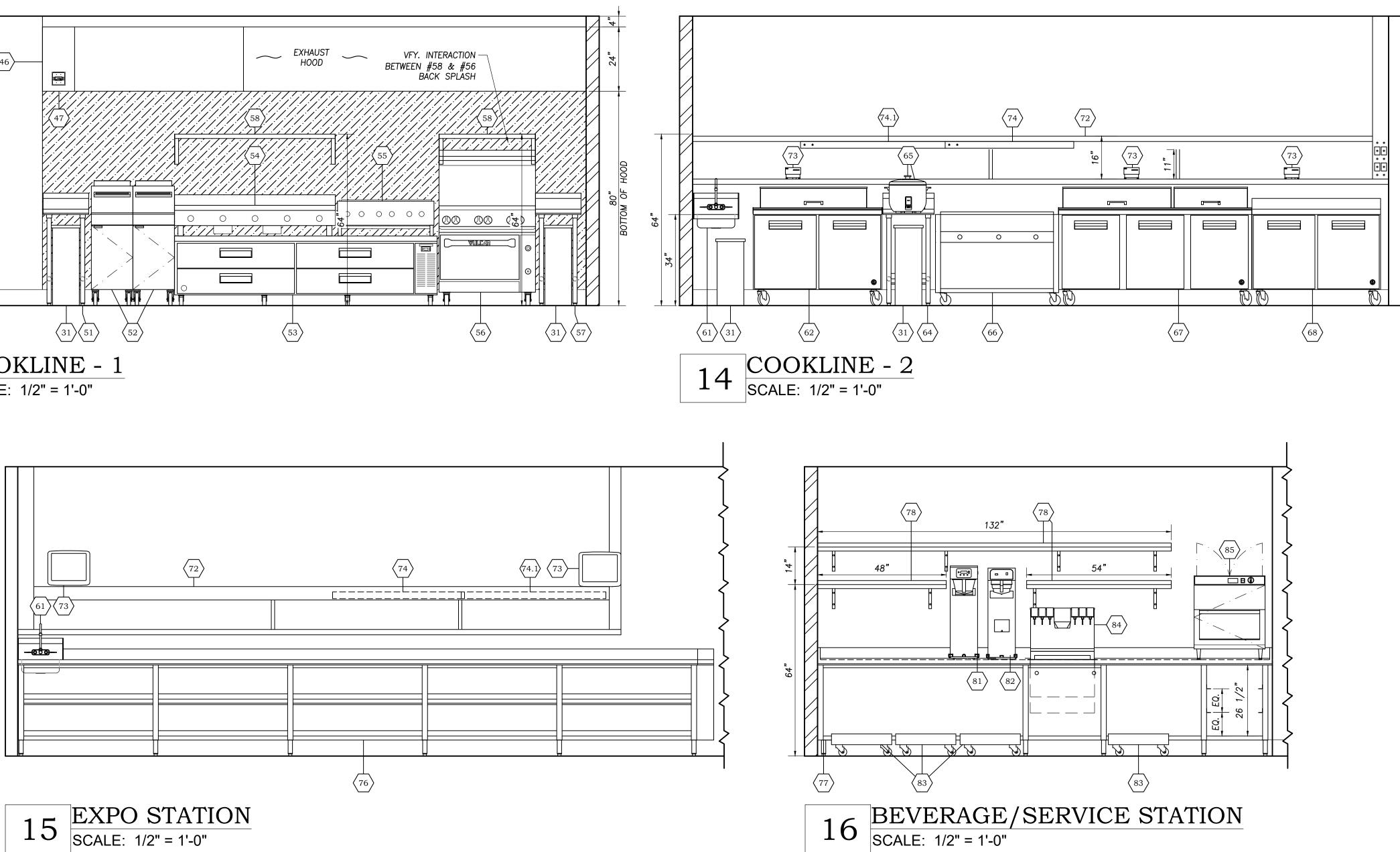


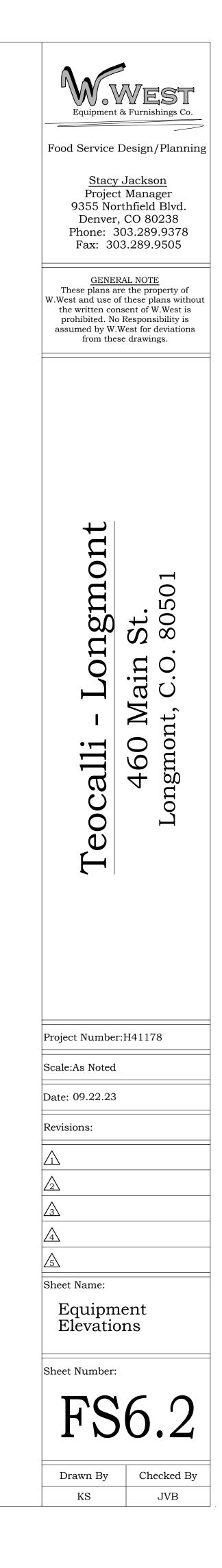


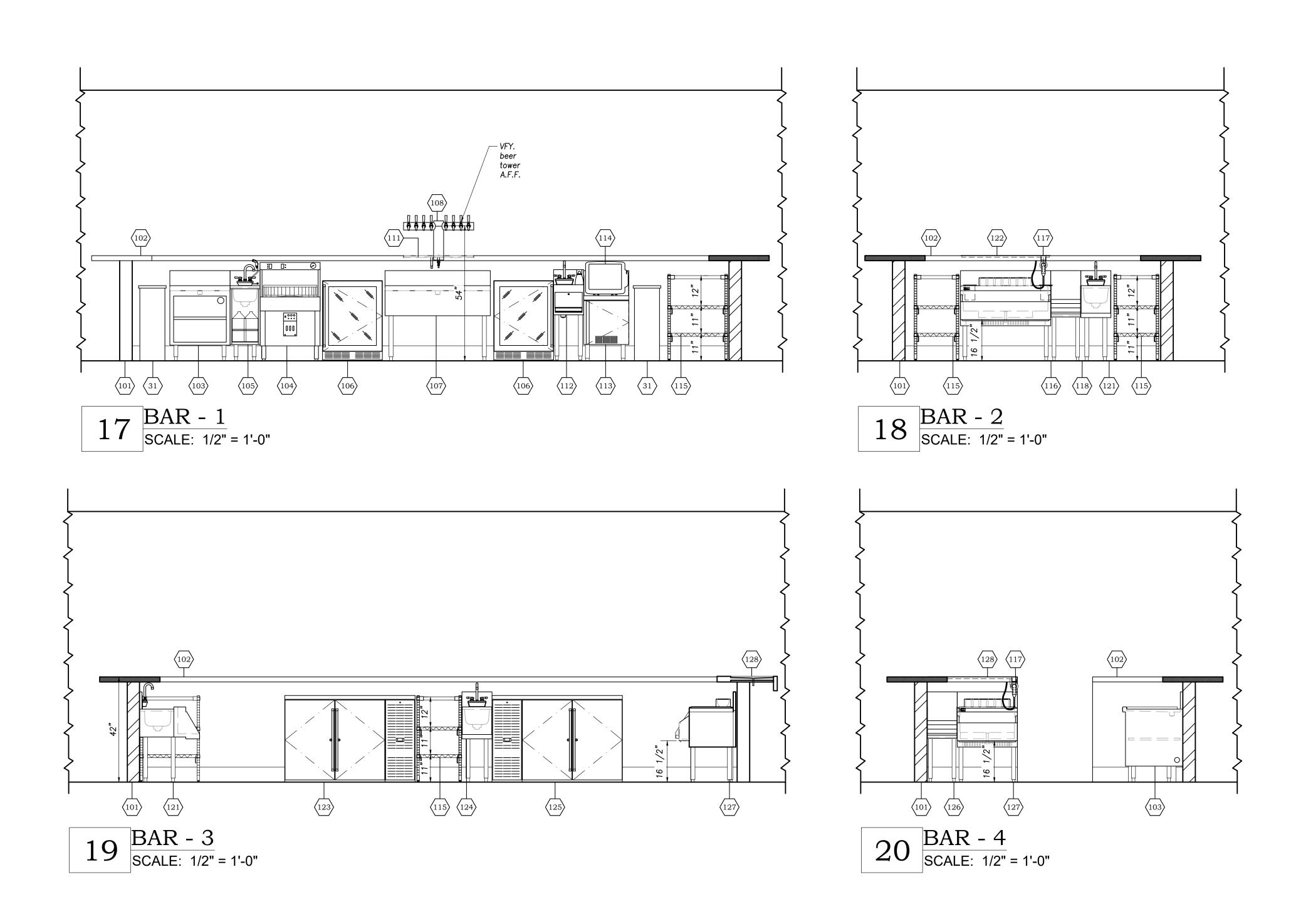












W.Wesi Equipment & Furnishings Co. Food Service Design/Planning Stacy Jackson Project Manager 9355 Northfield Blvd. Denver, CO 80238 Phone: 303.289.9378 Fax: 303.289.9505 <u>GENERAL NOTE</u> These plans are the property of W.West and use of these plans without the written consent of W.West is prohibited. No Responsibility is assumed by W.West for deviations from these drawings. Longmont St. 8050 Main <sub>nt</sub>, c.o. . Longmont, calli 460 Teo Project Number:H41178 Scale:As Noted Date: 09.22.23 Revisions:  $\left| \bigtriangleup \right|$ 3 $|_{4}$  $\sqrt{5}$ Sheet Name: Equipment Elevations Sheet Number: FS6.3 Drawn By Checked By JVB KS

	F	Denv RE PHONE: (	IDNS, CALL ver Office EGION 42 (720) 570-098 A2@captiveaire	1																				
H00	D INF	ORMATION	V – <i>JOB#6</i>	5109	9066																			
HODI		MODEL	MANUFACTUR			MAX COOKING	i TYPE	APPLIANCE DUTY	DESIGN	TOTAL			AUST PLENUM RISER(S)				- TOTAL SUPPLY	HODD CONSTRUCTION	END TO	CONFIG ROW				
	4.6	5424				TEMP 600					1 WIDTH LENG			CFM	VEL	SP	CFM	430 SS	END					
1	46-L	ND-2-PSP-F 5424			6' 3"	DEG 600		HEAVY	225	1406		4″	12″		1790	-0.692″		WHERE EXPOSED 430 SS						
2	46-R	ND-2-PSP-F 4224			9' 7" 7' 0"	DEG 700		HEAVY	275	2635		4″ 4″	16″	2635		-1.080"	1792	WHERE EXPOSED 304 SS						
3	94	VHB-G-ND		(E	/* U <sup>*</sup>	DEG	II	N/A	200	1400		4"	14″	1400	1310	-0.173″	0	100%		ALONE				
		<u>'ORMATION</u>	V		FILTER	\$>					LIGHT(S)							UTILITY CABIN	NET(S)		- 1		FIRE	НООД
	TAG	Т	YPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS		QTY		TYPE	WIRE GUARI		LOCATION SI		IZE	TYPE	FIRE SYSTEM SIZE		ELECTRI MODEL		SWITCHES QUANTITY		HANGING WEIGHT
1	46-L	CAPTRATE	SOLO FILTER	4	20″	16″		EE FILTER SPEC	2	RECES	SSED ROUND	ND	L			64"×24"	TANK FS	<b>4.0/4.0</b> /	4.0	DCV-2	111	1 LIGHT 1 FAN	YES	799 LBS
2	46-R	CAPTRATE	SOLO FILTER	7	7 20″ 16′		16" 85% SEE SP		4	RECES	SSED ROUND	ND											YES	535 LBS
З	94								2	L55 \$	SERIES E26	ND											ND	256 LBS
HOO HOOI		TIONS																						
ND	TAG		RAPPER 18,	00″		OPTION FRONT,																		
1	46-L					3.00″ LD		30 SS VER	TICAL.															
			SOR INSTALL																					
				00″		FRONT,		430 SS																
2	46-R		DESPLASH 1 ND STANDOFF			X 72.00 1″ WII			INSULA															
			SOR INSTALL																					
3	94	FIELD W	RAPPER 18,	00″	HIGH	FRONT,	LEFT, RI	GHT.																
PER	FORA'	<u>red supp</u>	PLY PLENU	<u>M(S</u>	5)			RISER(S)		-														
	TAG	POS LE	ENGTH WIDTH	HEIG	БНТ ТҮР	PE WIDT	H LENG	DIA CFM	SP															
1	46-L	Front	87″ 16″	64	MU	A 10"	24" 24"	632 632	0.214"												1/2" - 13 TPI	F	SUPPLY PLE HANGING AND	
					" MU	A 12"	24″	597	0.160″	_											GRADE 5 (MINIMU STEEL HEX NUTS	, <sup>M)</sup> (HARDV	WARE BY IN	

Hoods are ETL Listed And Complies with UL710, ULC710, and ULC-SE Standards. Fire Systems ETL Listed and Complies With Ul300 and Meets requirements of NFPA 96 and NFPA 17A

MUA

12″ 24″

MUA | 12" | 24" |

597 0.160″

597 0.160"

116″

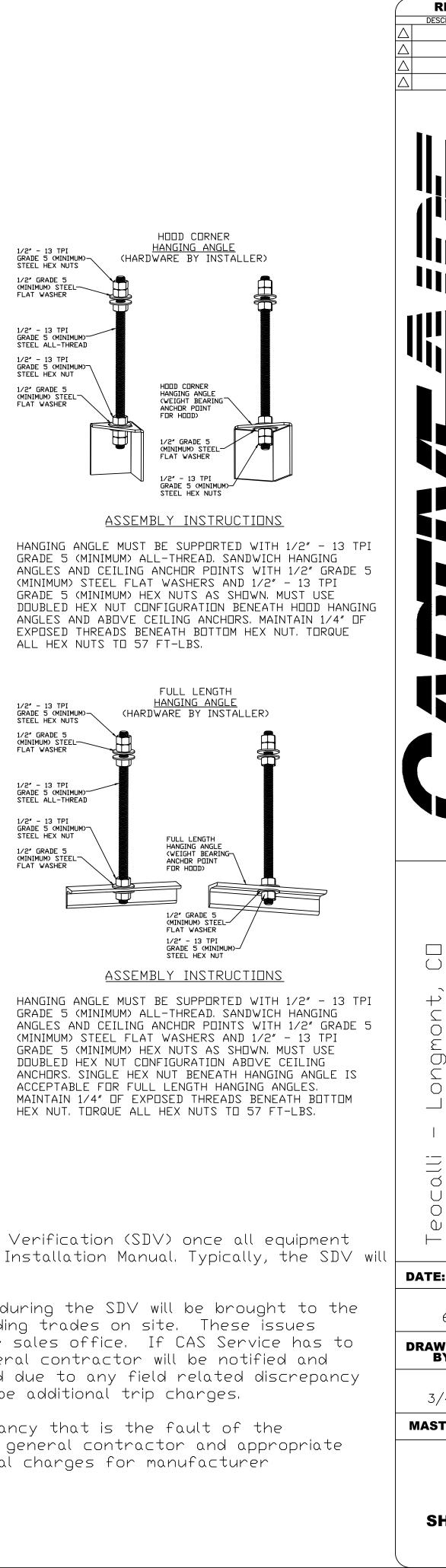
46-R

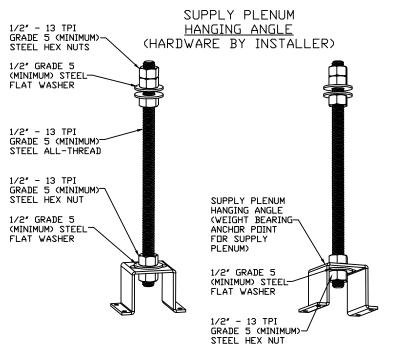
Front

16″

6″

HOOD MUST BE METAL STUDS AND SHEETROCK, WOOD STUDS OR ANY OTHER COMBUSTIBLE MATERIAL WITHIN 18" OF HOOD	RECOMMENDS NO RETURNS    OR 4-WAY DIFFUSERS    WITHIN 10 FEET OF HOOD	*** NOTE *** MAKE-UP AIR SHALL BE DELIVERED INTO SPACE IN MANNER THAT WILL NOT DISRUPT HOODS ABILITY TO CAPTURE AND CONTAIN.
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ASSEMBLY INSTRUCTIONS

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

System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

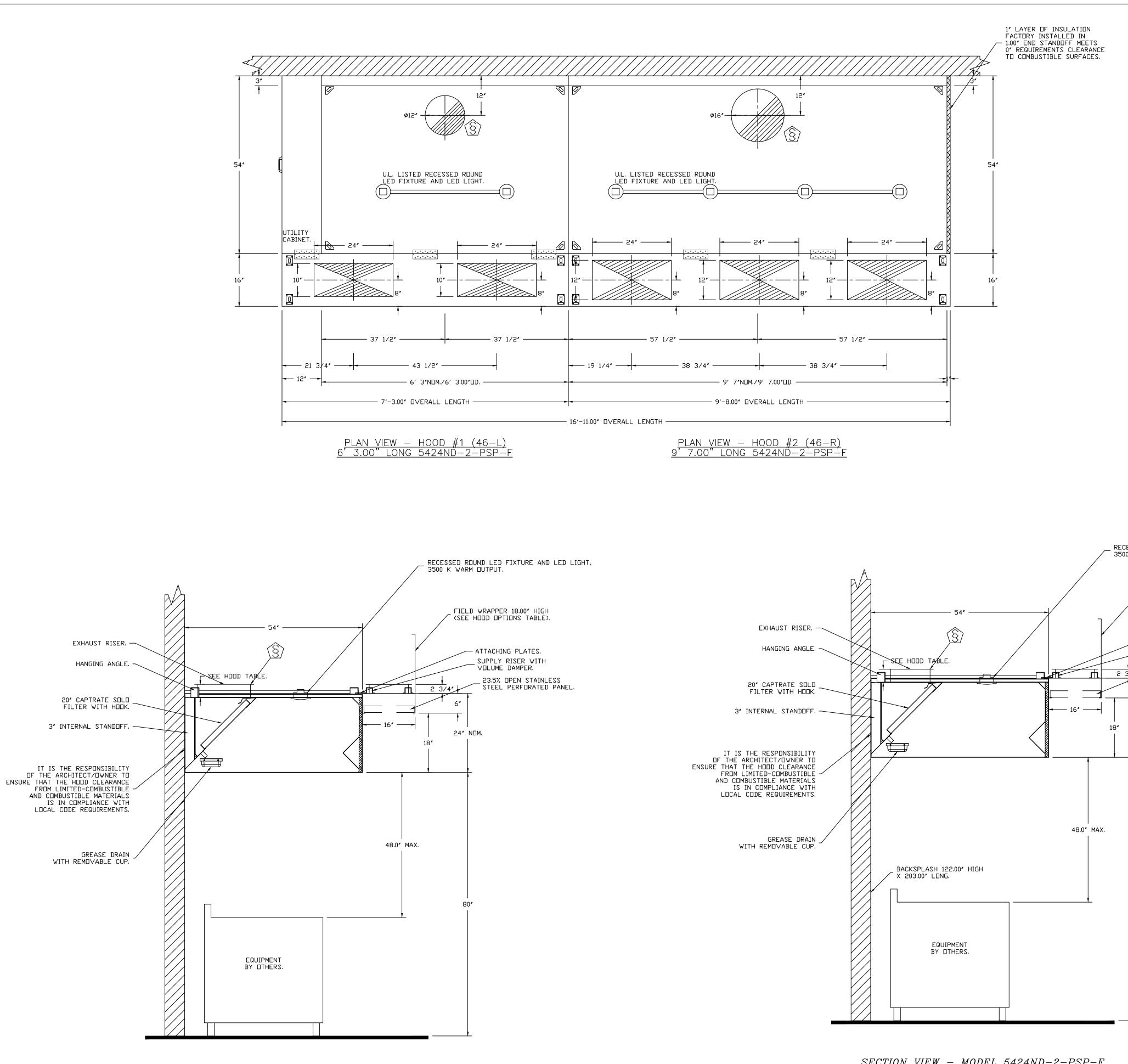
Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

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NOTE ***
AIR SHALL BE
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R THAT WILL NOT
HOODS ABILITY
JRE AND CONTAIN.



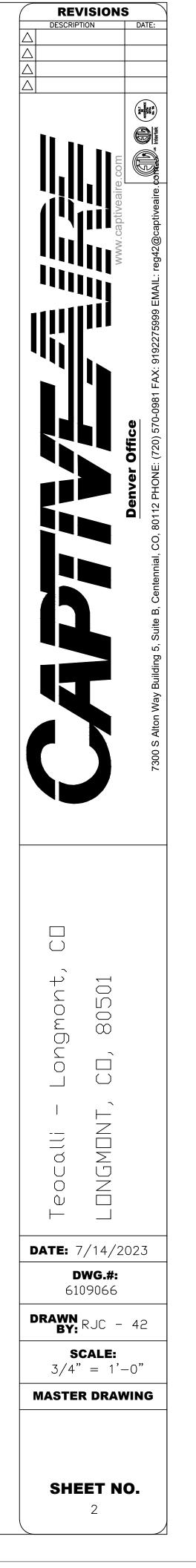


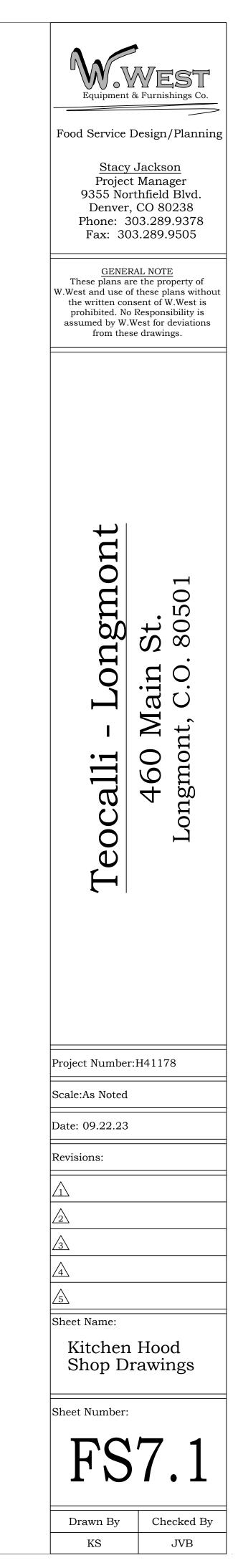
<u>SECTION VIEW – MODEL 5424ND–2–PSP–F</u> <u>HOOD – #2 (46–R)</u>

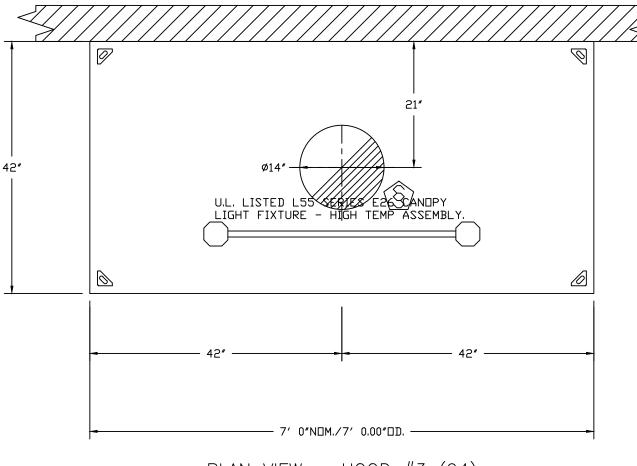
<u>SECTION VIEW – MODEL 5424ND–2–PSP–F</u> <u>HOOD – #1 (46–L)</u>

ESSED ROUND LED FIXTURE AND LED LIGHT, 0 K WARM OUTPUT.
FIELD WRAPPER 18.00" HIGH (SEE HOOD OPTIONS TABLE).
ATTACHING PLATES. SUPPLY RISER WITH VOLUME DAMPER. 23.5% OPEN STAINLESS 3/4" 23.5% OPEN STAINLESS STEEL PERFORATED PANEL.

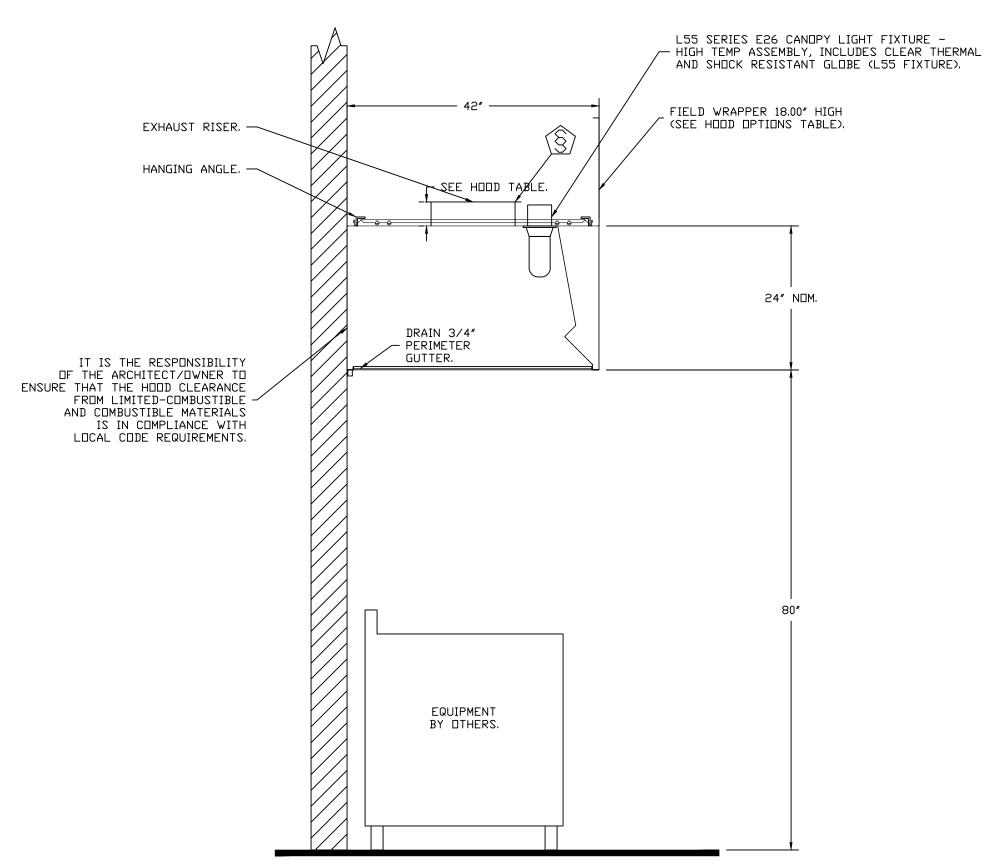
24″ NDM.



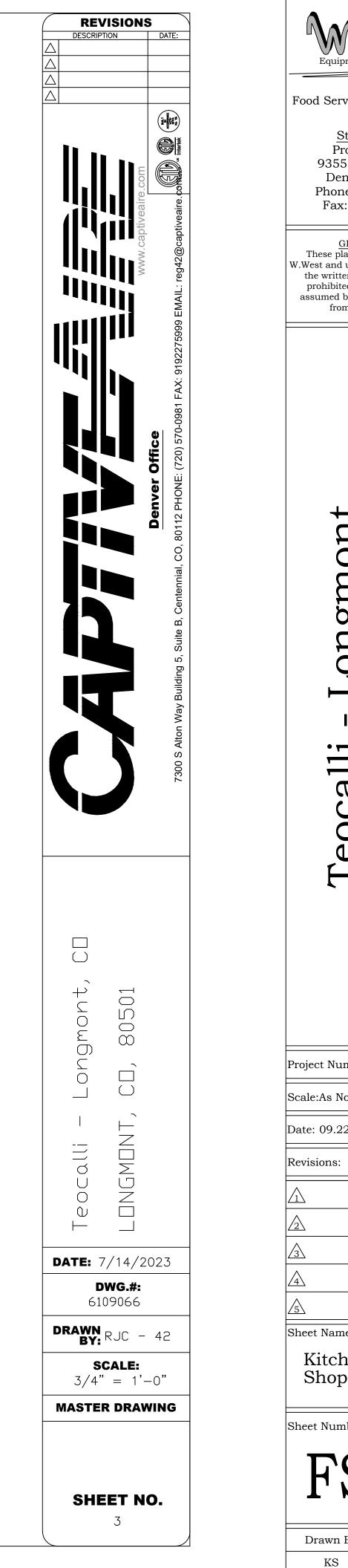




<u>PLAN VIEW – HOOD #3 (94)</u> 7'0.00" LONG 4224VHB-G-ND

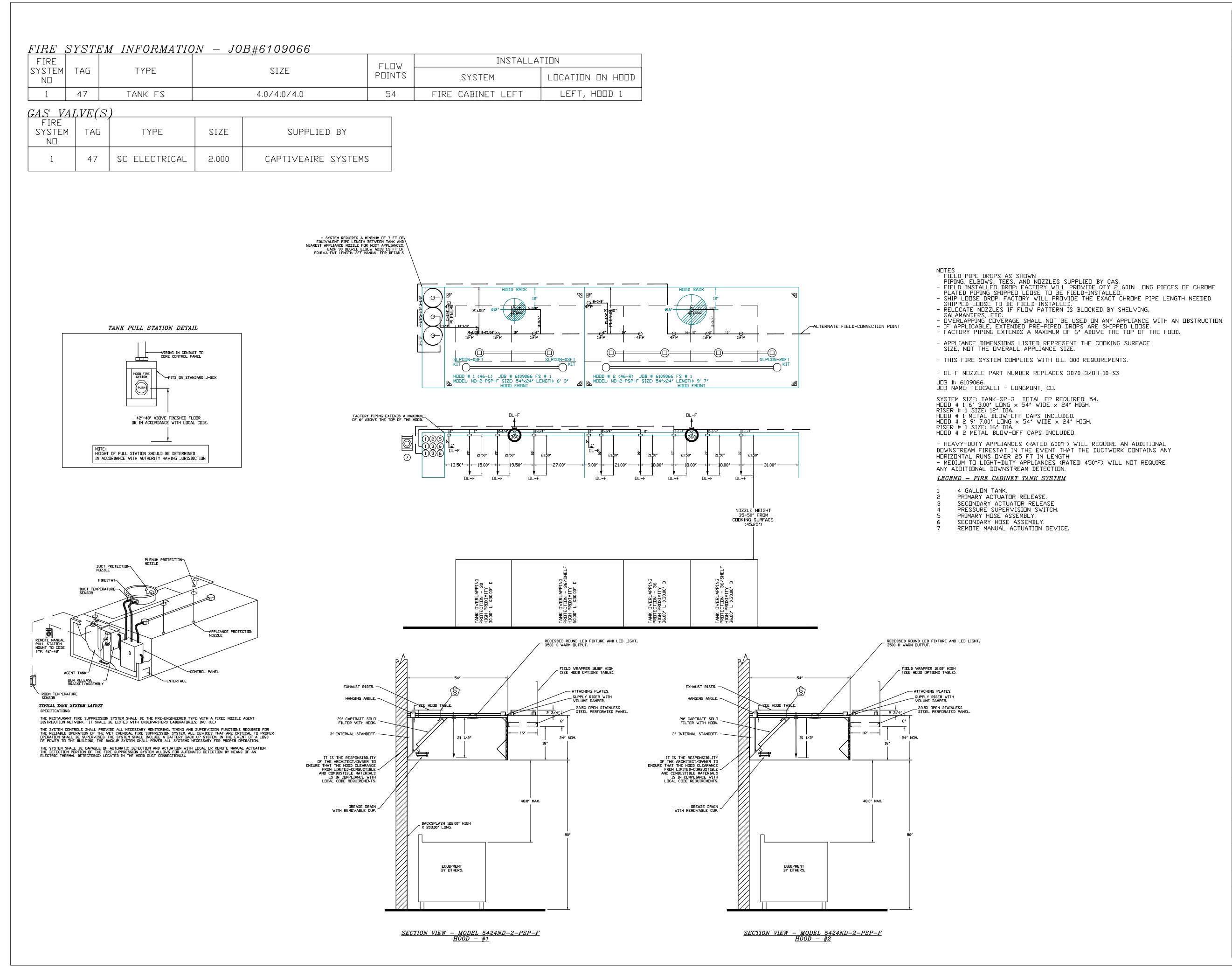


<u>SECTION VIEW – MODEL 4224VHB–G–ND</u> <u>HOOD – #3 (94)</u>



Equipment & Furnishings Co. Food Service Design/Planning Stacy Jackson Project Manager 9355 Northfield Blvd. Denver, CO 80238 Phone: 303.289.9378 Fax: 303.289.9505 <u>GENERAL NOTE</u> These plans are the property of W.West and use of these plans without the written consent of W.West is prohibited. No Responsibility is assumed by W.West for deviations from these drawings. Longmont  $\overline{}$ St. 8050 ain C.O. Z • ongmo 460 alli  $\mathbf{O}$ Teo Ľ Project Number:H41178 Scale:As Noted Date: 09.22.23 Revisions: Sheet Name: Kitchen Hood Shop Drawings Sheet Number: FS7.2 Drawn By Checked By

JVB

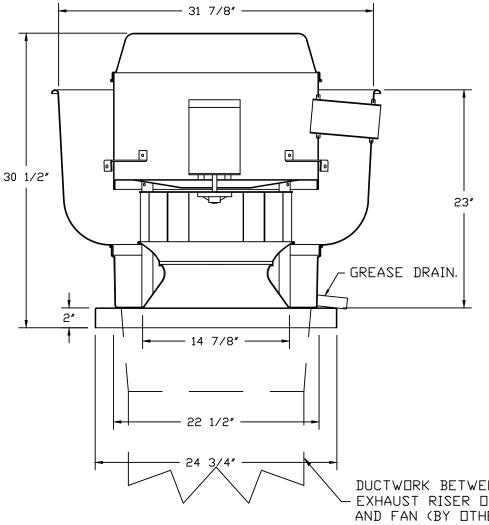


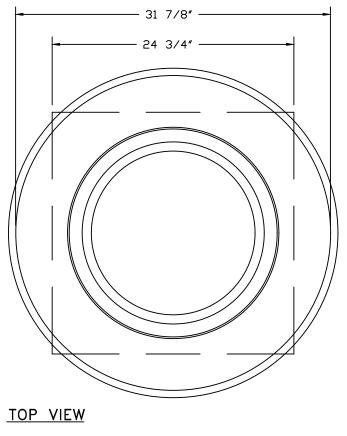
INSTALLATION					
LOCATION ON HOOD					
LEFT, HOOD 1					

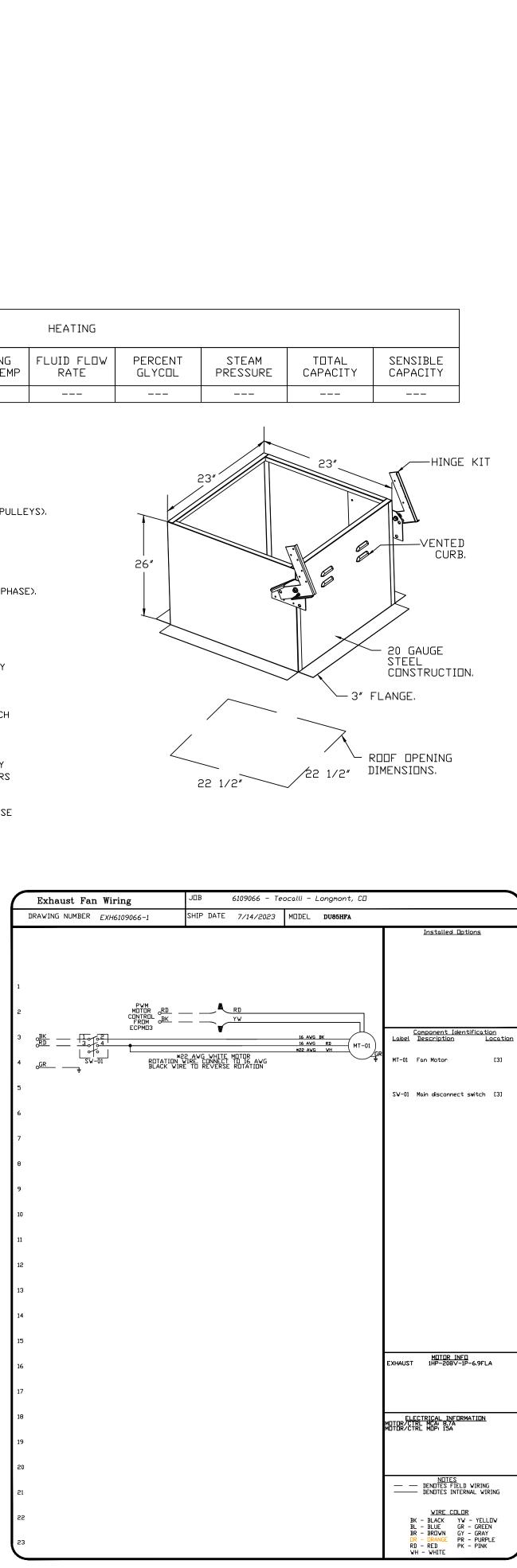
REVISIONS       DESCRIPTION     DATE:       \[Delta]	Equipment & Furnishings Co.
	Food Service Design/Planning Stacy Jackson
ptiveaire.com	Project Manager 9355 Northfield Blvd. Denver, CO 80238 Phone: 303.289.9378 Fax: 303.289.9505
999 EMAIL: reg42@ca	GENERAL NOTE These plans are the property of W.West and use of these plans without the written consent of W.West is prohibited. No Responsibility is assumed by W.West for deviations from these drawings.
Tado S Alton Way Building 5, Suite B, Centennial, CO, 80112 PHONE: (720) 570-0981 FAX: 9192275999 EMAIL: reg42@captiveaire	Teocalli - Longmont 460 Main St. Longmont, C.O. 80501
Longmont, CO CO, 80501	Project Number:H41178 Scale:As Noted
eocalli - INGMDNT,	Date: 09.22.23 Revisions:
	2
DATE: 7/14/2023 DWG.#:	
6109066 DRAWN P. IC 42	Sheet Name:
SCALE:	Kitchen Hood
$\frac{1/2" = 1'-0"}{MASTER DRAWING}$	Shop Drawings
	Sheet Number:
SHEET NO. 4	FS7.3
	Drawn ByChecked ByKSJVB

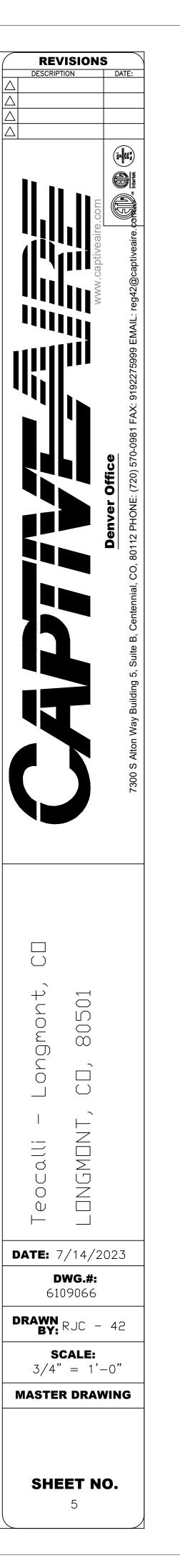
 APPLIANCE DIMENSIONS LISTED REPRESENT THE CODKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE. - HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY - MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE

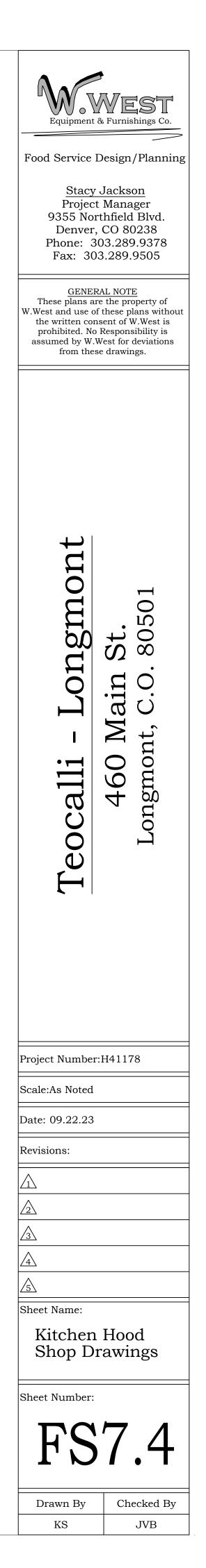
EXHA Fan	UST F.	AN INFORMATION - JOB#6109066		
	TAG G	RTY FAN UNIT MODEL # MANUFACTURER CFM ESP RPM MOTOR HP BHP PHASE ✓	OLT FLA DISCHARGE WEIGHT VELOCITY (LBS)	
	KEF-1	1 DU85HFA CAPTIVEAIRE 1406 1.000 1289 TEAD-ECM 1.000 0.3530 1 2	208 6.9 445 FPM 98 10.5	
2	KEF-2	1 DU180HFA CAPTIVEAIRE 2635 1.750 1364 DDP,PREMIUM 2.000 1.5990 3 2	208 8.3 609 FPM 200 20.4	
3	DEF-1	1 DU85HFA CAPTIVEAIRE 1400 0.600 1179 TEAD-ECM 0.750 0.2710 1 2	208 5.2 443 FPM 88 8.9	
CONL	ENSER	DETAILS		
FAN UNIT	TAG	FAN UNIT MODEL # CONDENSER TONNAGE VOLTAGE PHASE FREQUENCY MCA RLA	MAX FUSE MIN WIRE SEER	
ND			SIZE SIZE SELK 20 AMPS 14 AWG 14	
4	MAU-1	A2-D.250-20D-MPU         I		
MUA Fan	FAN IN	NFORMATION – JOB#6109066		
	TAG	RTY FAN UNIT MODEL # BLOWER HOUSING MIN DESIGN ESP RPM MOTOR HP B	CALT FLA MCA MOCP WEIGHT SONES	
	MAU-1	1 A2-D.250-20D-MPU 20MF-2-MDD A2-D.250 2700 3057 0.500 1392 DDP,PREMIUM 1.500 1.2	2470 3 208 6.6 9.5A 15A 1531 12.3	
	<u> </u>	B#6109066		
FAN UNIT	TAG	COLLING		HEATING
ND		TYPE CFM ENTERING DB ENTERING LEAVING DB LEAVING WB ENTERING LEAVING FLUID FLOW TEMP WB TEMP TEMP TEMP FLUID TEMP FLUID TEMP RATE	PERCENT TOTAL SENSIBLE LATENT ENTERING DE GLYCOL CAPACITY CAPACITY TEMP	LEAVING DB ENTERING LEAVING FLUID FLOW PERCENT STEA TEMP FLUID TEMP FLUID TEMP RATE GLYCOL PRESS
4	MAU-1	DX         3057         91.0°F         60.0°F         68.1°F         52.0°F	60.8 MBH 60.8 MBH 0.0 MBH	
GAS		MAKE-UP AIR UNIT(S)		
FAN UNIT	TAG	INPUT DUTPUT TEMP PISE REQUIRED INPUT GAS TYPE BURNER		
ND			FAN #1 DU85HFA - EXHAUST FAN (KEF-1)	
4		203821 187515 69°F 7 IN. W.C. – 14 IN. W.C. NATURAL 92		FEATURES:
FAN	<u>OPTION</u>		<b>-</b> 31 7/8″ ───	- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
UNIT ND	TAG	QTY DESCRIPTION		- RODF MOUNTED FANS. - RESTAURANT MODEL.
		1 GREASE BDX 1 FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FDR GREASE DUCTS		- UL705 AND UL762 AND ULC-S645   - VARIABLE SPEED CONTROL. 26"
1	KEF-1	1 ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMD3 PREWIRE (TELCO MOTOR), CCW ROTATION		- INTERNAL WIRING. - THERMAL D∨ERLDAD PRDTECTION (SINGLE PHASE).
		1 2 YEAR PARTS WARRANTY 1 GREASE BDX		- HIGH HEAT DPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING.
		1 FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS		- NEMA 3R SAFETY DISCONNECT SWITCH.
2	KEF-2			NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY
		1       VFD MOUNTING BRACKET FOR DU/DR 180 - 200         1       EXHAUST FAN HEAT BAFFLE		WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED
		1 2 YEAR PARTS WARRANTY		THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH
		1 ECM WIRING PACKAGE - EXHAUST - MANUAL DR 0-10∨DC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW RDTATION	GREASE DRAIN.	WOULD CAUSE UNSAFE OPERATION.
3	DEF-1	1 SCR-15 BIRD SCREEN 1 I 19-BDD DAMPER		ABNORMAL FLARE-UP TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY
		1 2 YEAR PARTS WARRANTY		WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF
		1 INLET PRESSURE GAUGE, 0-35" 1 MANIFOLD PRESSURE GAUGE, -5 TO 15" WC		15 MINUTES WITHDUT THE FAN BECDMING DAMAGED TD ANY EXTENT THAT CDULD CAUSE
		1     BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE)		AN UNSAFE CONDITION.
		1 SHIP LODSE GAS STRAINER 1"	<b>  -  </b> 22 1/2″ ─── <b>  -</b>	DPTIONS
		1       CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED         1       MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING	24 3/4"	– GREASE BDX. – FAN BASE CERAMIC SEAL – INSTALLED AT PLANT – FDR GREASE DUCTS.
4	MAU-1	7.5 TON 2 CIRCUIT (2.5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 2 DF/EH MUA 1 (2,700 TO 4,500 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE	DUCTWORK BETWEEN	- ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMD3 PREWIRE (TELCO MOTOR), PROVING NUMBER SHORE AND SHIP PALE 2 (1)
		STAT REQUIRED FOR PROPER OPERATION	AND FAN (BY DTHERS).	CCW ROTATION. - 2 YEAR PARTS WARRANTY.
		1 DOWNTURN PLENUM FOR SIZE 2 DX COIL MODULE , SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE - USED ON HEATERS UNDER 2500		
		<sup>1</sup> CFM		1
		1     UNIT MOUNTED VFD FOR USE WITH ECPM03       1     2 YEAR PARTS WARRANTY	24 3/4"	
FAN	ACCESS	SORIES		ECPMD3
FAN		EXHAUST SUPPLY		<sup>3</sup> c <sup>BK</sup> <u>1 c c<sup>2</sup></u> <u>RD</u> <u>3 c c<sup>4</sup></u> <u>c c c</u> <del>s c c c</del> <del>s c c c c c c c c c c c c c c c c c c c</del>
	TAG	GREASE GRAVITY WALL SIDE GRAVITY MOTORIZED WALL		5
		CUP DAMPER MOUNT DISCHARGE DAMPER DAMPER MOUNT		6
1	KEF-1	YES YES		7
2	KEF-2 DEF-1	YES YES		8
4	MAU-1	YES		
		MBLIES		
	UN AN	TAG WEIGHT ITEM SIZE		10
	ŧ 1	KEF-1         44 LBS         CURB         23.000"W X 23.000"L X 26.000"H         VENTED         HINGED.		11
	‡ 2 ‡ 3	KEF-2         34 LBS         CURB         26.500"W X 26.500"L X 26.000"H         VENTED         HINGED.           DEF-1         44 LBS         CURB         23.000"W X 23.000"L X 26.000"H         VENTED         HINGED.		12
4	‡ 4	MAU-1 107 LBS CURB 31.000"W X 79.000"L X 20.000"H INSULATED.	TOP VIEW	13
	\$ 4	RAIL 6.000"W X 31.000"L X 20.000"H.		14

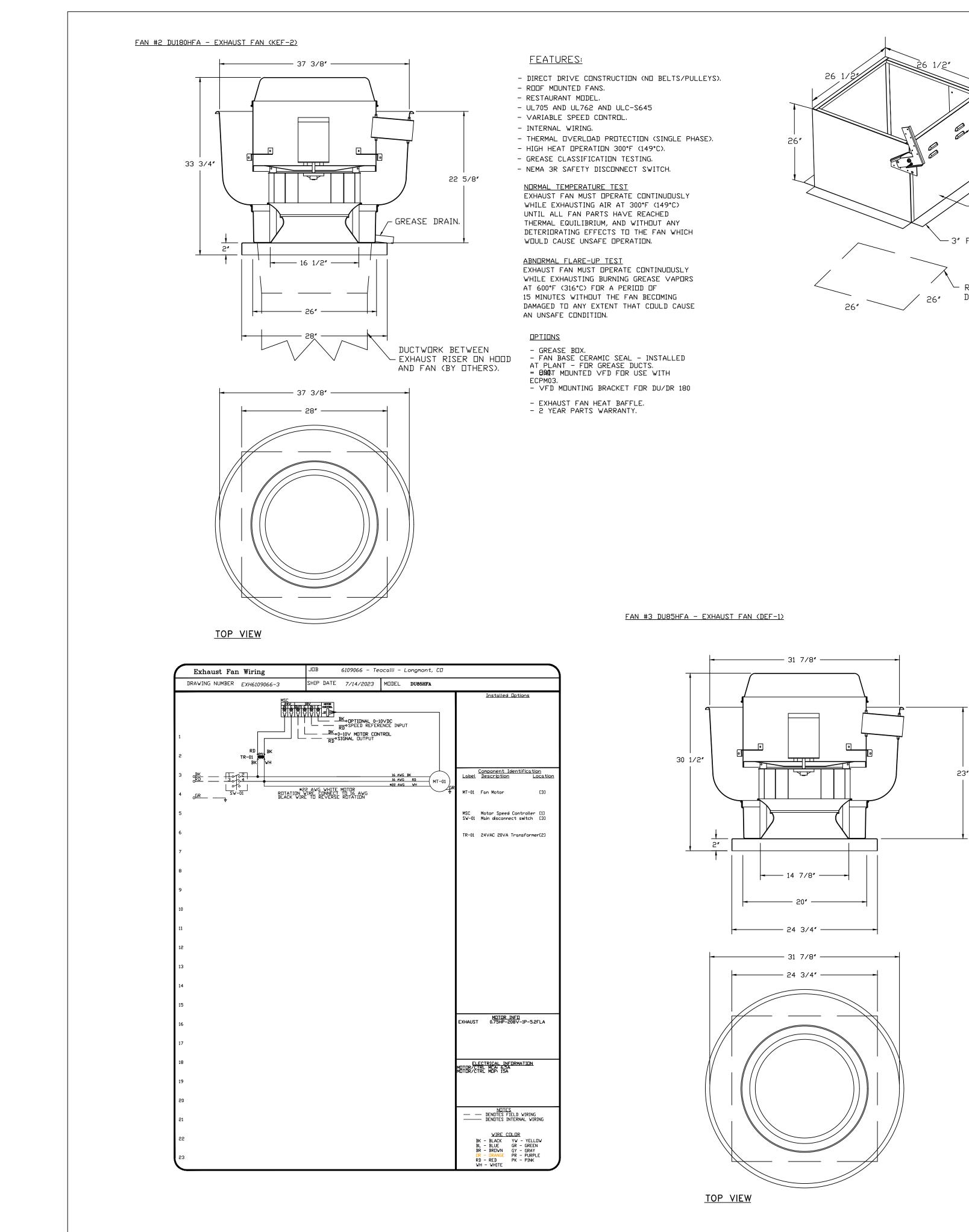


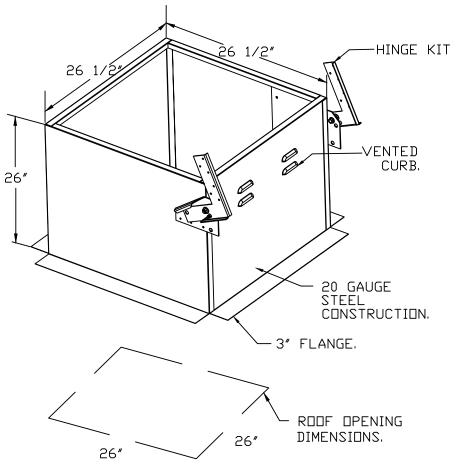


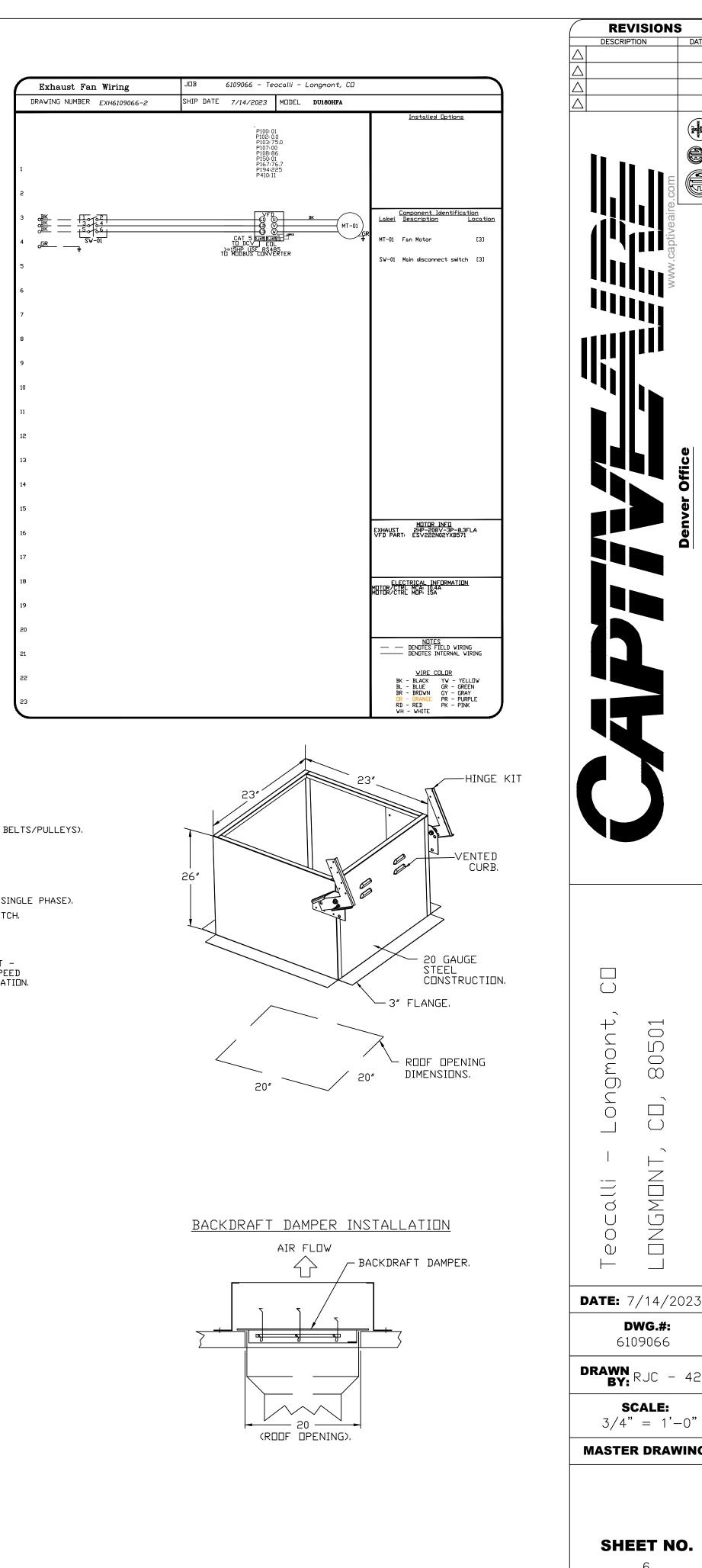










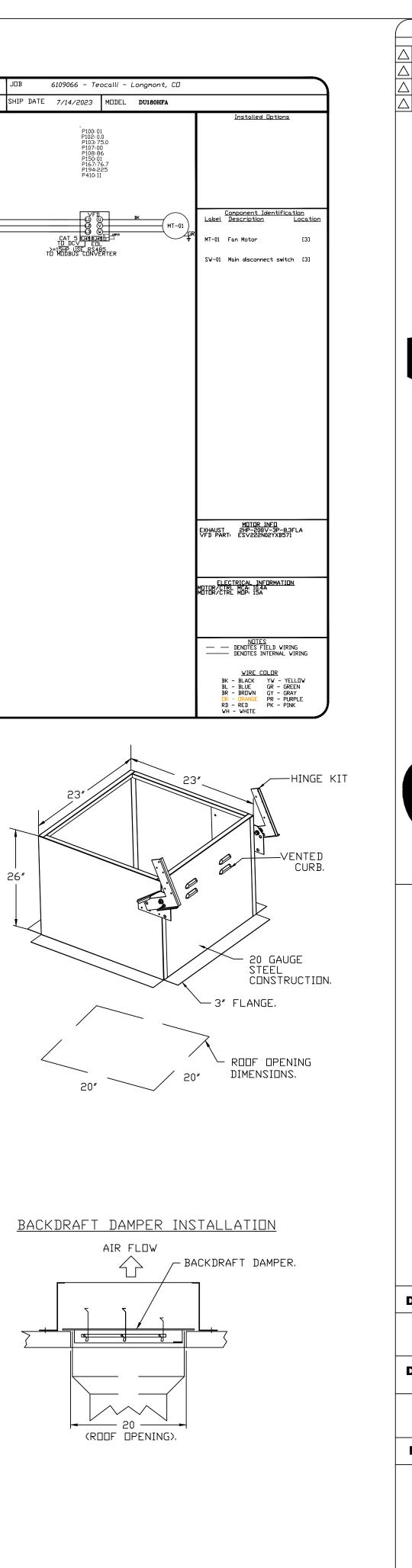


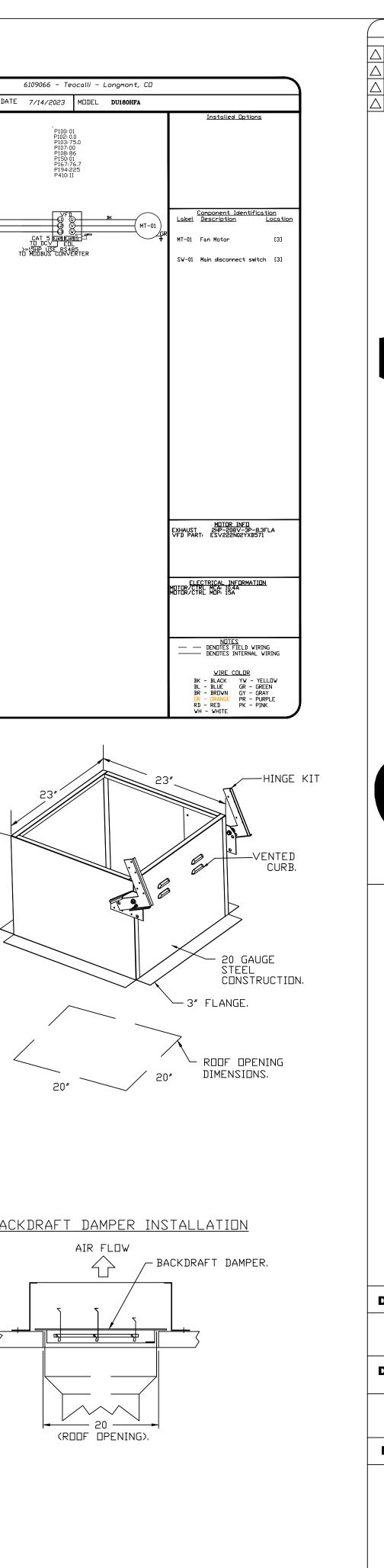
### FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS. – UL705.
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.
- <u>OPTIONS</u>

ECM WIRING PACKAGE - EXHAUST MANUAL DR 0-10∨DC REFERENCE SPEED
 CONTROL -MSC- (TELCD), CCW RDTATION.
 SCR-15 BIRD SCREEN.
 L 19-DDD DAMPER

- I 19-BDD DAMPER. 2 YEAR PARTS WARRANTY.







DESCRIPTION

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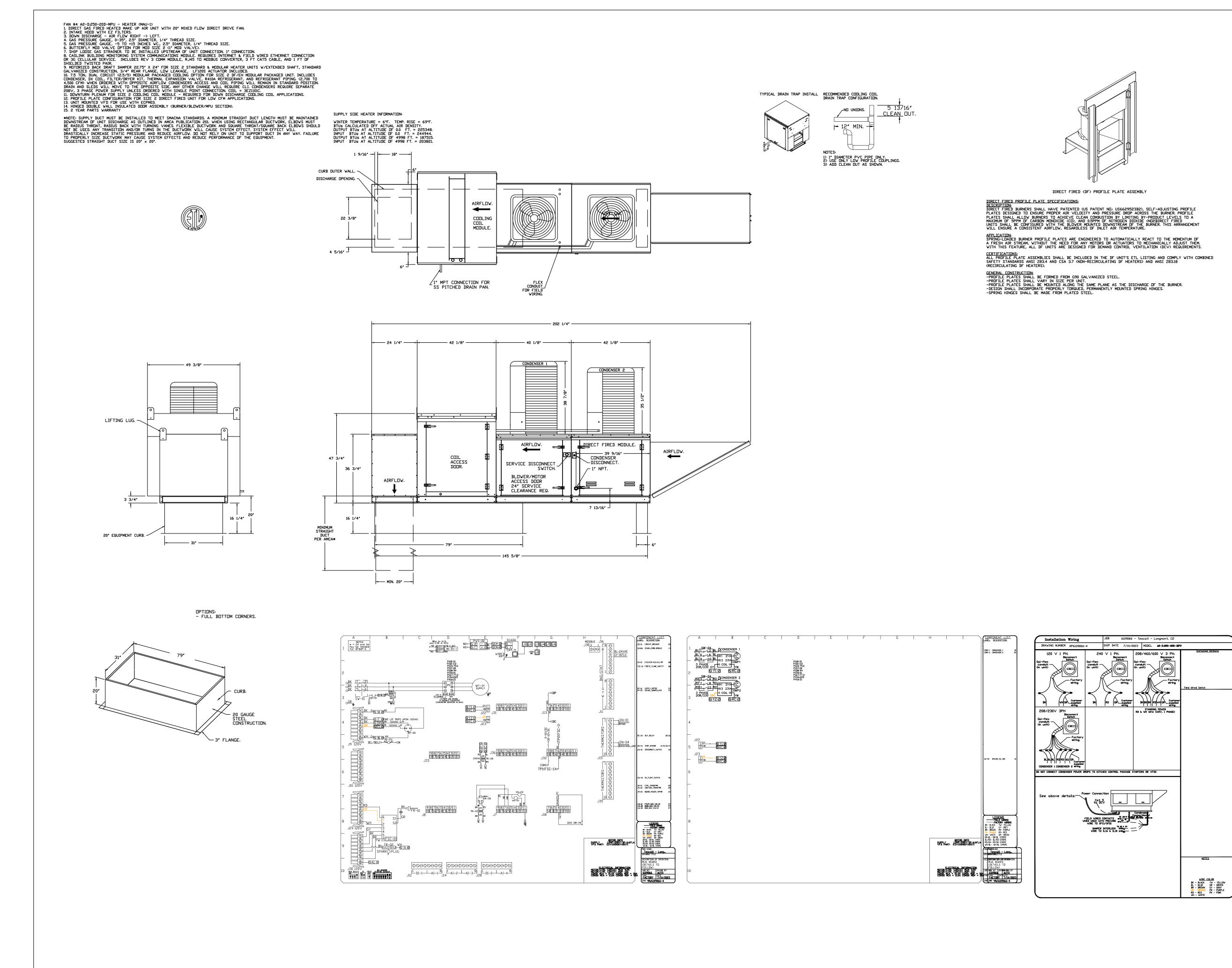
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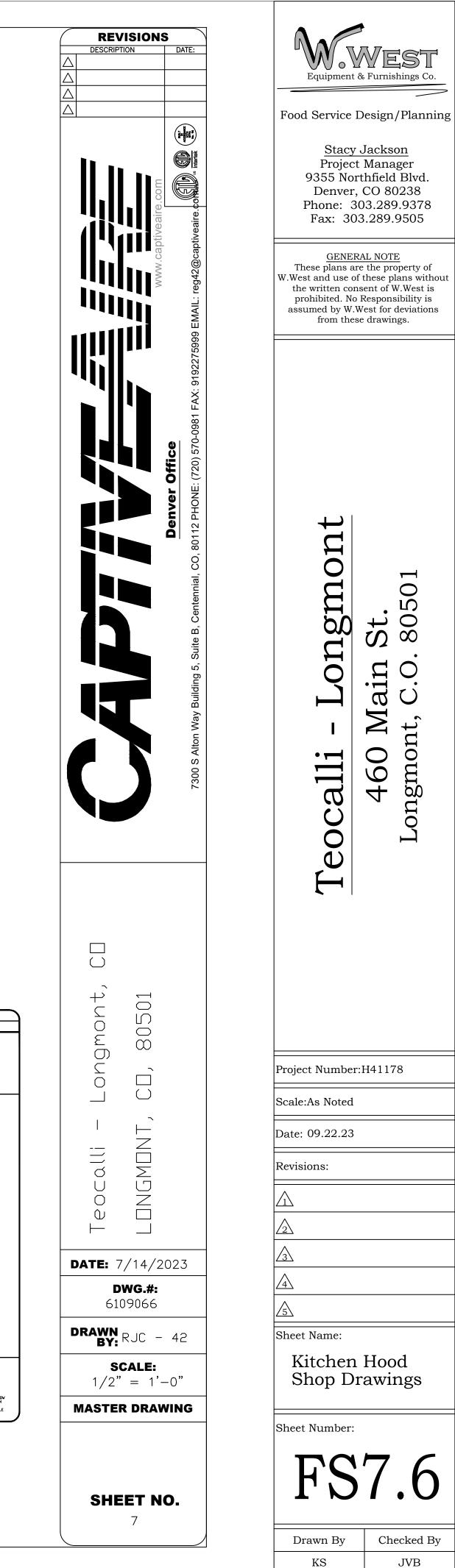
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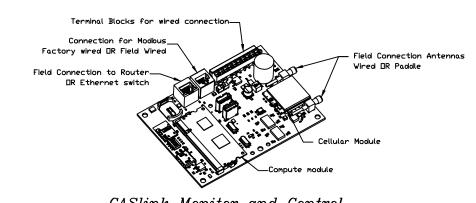
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<u>EL</u>	ECTRICAL	PACKAGI	5 — JOB#6109066									
			SWITCHES		OPTION	FANS CONTROLLED						
		#	LICATION QUANTITY		FAN TAG	TYPE	φ	HP	VOLT	FLA		
				UTILITY CABINET LEFT	1 LIGHT		KEF-1	EXHAUST	1	1.000	208	6.9
1		DCV-2111 UTILITY CABINET LEFT		SMART CONTROLS DCV	KEF-2	EXHAUST	3	2.000	208	8.3		
			HOOD # 1	1 FAN		MAU-1	SUPPLY	3	1.500	208	6.6	



CASlink Monitor and Control

Hood control panel to support communications to cloud-based Building Management System. - Hood Control Panel to allow cloud-based Building Management System t How control Parel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
 How Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list. - Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

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

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA DIscharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

### HOOD CONTROL PANEL- DEMAND CONTROL VENTILATION (DCV)

<u>Written Specifications</u>: The hood control panel with demand control ventilation automatically modulates fans based on cooking load. Modulation allows for energy savings compared to fans running on high speed during cooking operation.

Listings: Models Electrical Control Panel are ETL Listed under file number 101754591COL-001 and complies with UL508A Standards and CAN/CSA C22.2, No. 14-05 Standards.

ECPM03 Circuit Board is ETL Listed under file number 100901773BOX-001 and complies with UL 61010-1 Standard and CAN/CSA C22.2, No. 61010-1 Standards. <u>Sequence of Operations</u>: The hood control panel interlocks the exhaust fan with makeup air

unit.

The hood control panel is capable of operating in one or more of the following states at any given time.

Automatic: The DCV hood control package is designed to thermostatically activate the exhaust fans and make-up air for an exhaust hood whenever elevated temperatures are sensed in the exhaust system. This option will meet the requirements of IMC 507.1.1 and IMC 508.1 by providing a thermostat(s) mounted in the duct or hood riser to sense increased exhaust temperatures.

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

The panel is factory configured to shut down supply fans, turn on the exhaust fans and turn off the hood lights in a fire condition.

The DCV turns down to 20-25% of total exhaust in prep mode. The system is capable of turning down to 0% when operating automatically if it does not sense a need for hood operation. The DCV will modulate the fans it is controlling based on demand and the low speed and high speed settings are fully adjustable based on demand.

In the event of a fire, there are two forms of activation. The mechanical remote pull may be activated or the mechanical detection link in the hood may melt. The Ansul Automan takes this mechanical activation and converts it to an electric notification signal via the microswitch and building-initiating switch. In either event, the DCV will be electrically notified via the Ansul Automan. The DCV will then turn ON the exhaust fan, turn off the make-up air unit and turn off the hood lights. The Ansul Automan will close the mechanical gas valve to close the gas line or if an electric gas valve is used, the hood control panel will send a signal to the shunted portion of the breaker panel to remove power from the cooking appliances. The building-initiating switch can be used to notify the building alarm system.

Manual: The system operates based on human input from an HMI.

Schedule: A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.

<u>Other</u>: The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)

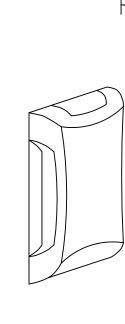
JOB NO	20066	MODEL NU	MBER DCV-21	11	DRAWN BY	SCHEMATIC TYPE INSTALL	DESCRIPTION D
61	09066	JOB NAME				DWG NO ECP #1-1	modulate based on duct sensor shipped loose for distance exceeds 50 feet
BREAKE BREAKER PANEL	PANEL TO PRIMA Responsibility: E R SIZE SHOWN IS TH	lectrician E MAXIMUM AL			NTROL PANEL TO esponsibility: Elec FEED STP THROUGH II COOLING TUBE: ALLOW ENDUGH SLACK ON ST	Trician F	ANS W
BREAKER 1PH 120 V 15 A	CUNTRUL PUWER. DU TU GFCI UR SHUNT BREAKER. IST HOUD LIGHT BREAKER SI CUNTRUL PUWER. SWITCH #1	TRIP		SPEED SIGNAL ECM-01 CONTROL PANEL TO ECM ECM MB EX	PROPER HINGING, (EXH NDTE: PWM SIGNAL IS SENSITIVE. SHIEDLEDOPR RATED REDC*D VISTED PAIR	HAUST ENLY) FELC POLARITY BK T ZIEH BK T BLACK->	П GR IM ФТОR 1 YW L MDTOR 0 BK KEF-1 ECM-01 FAN: 01 M-1 CD
BREAKER PANEL	BREAKER PANEL Responsibility: El		FANS	MB EXI TO EXH-2 MOUNTED VFD COM LINK	CAT-5 CONNECTION. REMOVE EOL FROM THE MODBUS SLAVE CONNECT NETWORK AND WIRE IN CAT-5 CABLE. PLACE EOL IN EMPTY R		
BREAKER 3PH 208∨ MCA: 10.4A MDCP: 20A		-	PDWER TD REMDTE VFD	ECPM03 TD SUP-4 MDUNTED VFD ECPM0 CDM LINK	CAT-5 CONNECTION. REMOVE EOL FROM THE MODBUS SLAVE CONNECT		
BREAKER 3PH 208V MCA: 8.2A MDCP: 15A	SUP-4	LINE LINE LINE Gr <u>ound</u>	PDWER TD REMOTE VFD 	FAN START (SFDIC SIGNAL (SFCIC TO MUA BOARD SUP-4		0 *VIRE INT	M-2 24√) UI¥) CC : TO UNIT ERLOCK (
 BREAKER 1PH 208∨ MCA: 8.6A M⊡CP: 15A	VIRE DIRECTLY TO FAN I 	DISCONNECT <u>LINE</u> <u>LINE</u> Gr <u>ound</u>	POWER TO ECM FANS	MAKE UP AIR UN PC DAMPER IILIAC PRUVING IILIBC INTERLUCK	⊇┿┓╱── ── ─	CTION FOR TERM VIRE SAME IF MUK ULD IEN DAMPER	ZENE 1 D3 D7 NML AMMES NBY DTHERS CC S
3 PHASE 208-230 20 Amps		<u>line</u> line <u>line</u> ND 1	POWER TO CONDENSER		SEE MAKE-UP AIR SC	HEMATIC.	CC
3 PHASE 208-230 30 Amps		<u>line</u> <u>line</u> <u>line</u> 	 POWER_TO CONDENSER		PANEL TO ACCE esponsibility: Elec	trician	
		L		CONTROL PANEL	ALL SWITCHES FACTORY		

### DCV-2111 6109066 DB NAME Teocalli - Longmont, CO 7/14/2023 /FD ANAL DG WIRE TO VED TERMINAL STRIP EACH VFI IAL SWITCH THR⊡UGH BMS \_ ACTIVATE Z⊡NE1 FANS AN EXTERNAL SWITCH GUNLY ENERGIZED THROUGH LCD HMI WHEN FIRE SYSTEM ARMED. (NDT NEEDED IF USING 120V GAS VALVE). GAS VALVE 24∨ DC ONLY CONTROL PANEL TO FIRE SYSTEM Responsibility: ALARM CONTRACTOR CONTROL PANEL CONTROL PANEL SIGINAL FUR BUILDING FIRE ALARM PANEL PANEL CONDITION. BUILDING ALARM PANEL CONTROL PANEL SIGNAL FOR BUILDING TROUBLE TROUBLE RELAY CONTACTS VILL ALARM MAKE TBC TO TBL IN TROUBLE CONDITION. CONTROL PANEL TO FIRE SYSTEM Responsibility: CERTIFIED INSTALLER CONTROL PANEL COMPONENT FIRE STATS 21 œ 22 œ 21 GO 22 GO FIRE STAT SUPERVISED LDDP JUCT May be mixed factory and field Wining, See Installation Schematic. DUCT Multiple fire sensors possible. ED FIRE HIGH TEMP VIRE (842 F), PNi SUPERVISEd LOOP wining in contact SUPERVISEd LOOP wining in contact with a hood. All other wining shall be PNi 6320UL, Belden or similar. CONTROL PANEL TO DUCT MOUNTED FIRE DETECTION STAT(S)

		PULL STATION
10200-		MS-01
	MANUAL ACTUATION LOOP / REMOTE FIRE SYSTEM LOOP. Multiple manual actuation possible.	Micro SW
CONTROL PANEL TO FIRE SYSTEM PULL	Multiple manual actuation possible. A Plug jumper with wires from pin1 to pin4 and from pin2 to pin3 is mounted or 110, remove the Jumpers and wire in the supervised actuation loop. Microswitch MS-01 is optional for fire system interlock.	AUX-01 AU1 AU2 Adjacent FS Panel
STATION	Auxillary Interlock (AUX-0D): Wire AUI / AU2 of adjacent Master FS panel(s) in each manual activation loop for simultaneous activation. See fire system drawings for more information.	MAD-01 C ND Manual Actuation
<u></u> <u></u> 103&&		Device
ЕСРМ03		CORE PCB
CONTROL PANEL	CAT-5 CONNECTION ADDITIONAL DE∨ICES MAY BE INLINE.	{J5
MASTER FS BOARD.	PLACE END OF LINE PLUG IN EMPTY JACK. PN: EDL120A UNLESS VFD, PCU, OR OTHER COMPONENT IN SERIES.	120A (J6)
INTERLOCK NETVORK CONTROL PANEL CA O- TO CB O- MASTER FS CC O- PANEL 	SHIELDED TVISTED PAIR BLACK RED SHIELD VIRE TO LIKE TERMINALS IN ALL CORE PANELS THAT MUST ACTIVATE TOGETHER. SET MASTER & SLAVE DIP SVITCHES PER FIRE SYSTEM MANUAL.	MASTER CORE

INSTALL

DWG NO



## ROOM TEMPER

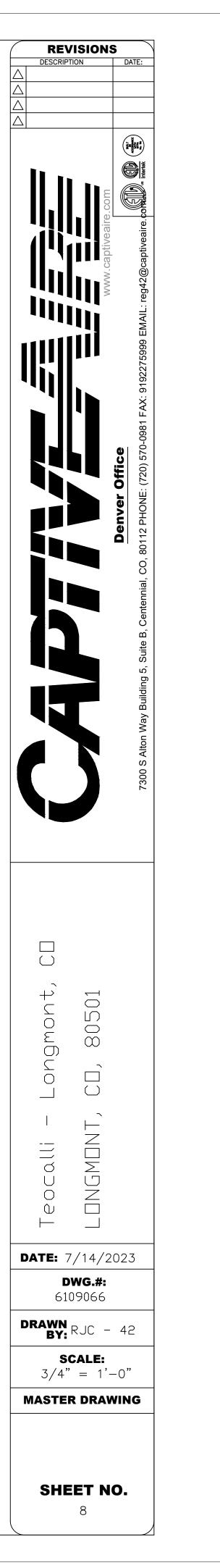
The Room Temperature sensor is a 10K []hm Thermistor. The sensor provides constant room temperature to the controller. It should be installed on a wall somewhere in the space but not directly under the hood or close to an appliance so that the reading is not affected by heat.

Typically a system will have one room temperature sensor. However, systems configured with 2 fan zones have the option to be ordered with 2 room temperature sensors, one for each zone. They should be mounted in the space accordingly.

	chaust Fans, 1 Supply Fan, Exhaust on i DUTY 3 PHASE MDTOR REQUIRED FOR USE v distance between VFD and Motory add	
	CAT-5 ETHERNET CONNECTION	
D WIDE EB	VIRE DIRECTLY TO COMMUNICATION MODULE. NET REQUIRES 1) DHCP 2) UDP PORT 1444 & 1445 DPEN FOR DUTBOUND TRAFFIC ONLY.	
PANEL TIA O		
] <u>                       </u> temp sor 	WIRE TO CONTROL BOARD. INSTALL SENSOR IN ROOM AWAY FROM HEAT SOURCES. DO NOT INSTALL SENSOR ON THE CEILING GRID, SEE MANUAL.	ROOM TEMP GROUPS:
PANEL <u>T2A O</u> <u>T2B O</u> VOLUME SOR	FACTORY VIRED TEMPERATURE SENSOR. MOUNTED IN HOOD CAPTURE VOLUME.	HODD 1 CAPTURE 1
 PANEL <u>T3A O</u> - D <u>T3B O</u> - E VOLUME SOR	VIRE TO CONTROL BOARD. SENSOR MOUNTED IN HOOD CAPTURE VOLUME.	HDDD 2 CAPTURE 1
PANEL <u>T4A O</u> J <u>T4B O</u> ENSOR	VIRE TO CONTROL BOARD. SENSOR MOUNTED IN SUPPLY PLENUM.	HODD 1 PSP TEMP
_ PANEL GAS C	<u>HD</u> T <u>TD GAS VALVE</u> <u>NEUTRAL</u>	GAS SOLENDID
ONLY	DNLY ENERGIZED THROUGH LCD HMI WHEN FIRE SYSTEM ARMED.	
	THE FOLLOWING CONNECTIONS MAY OR MAY NOT BE REQUIRED BASED ON JOBSITE SPECIFICATIONS	
PANEL ST OF L FOR <u>N1 O</u> F RNAL	HDT_TD_SHUNT_CDIL NEUTRAL_FRDM_SHUNT_CDIL ST_TERMINAL_IS_ENERGIZED	
TRIP	IN FIRE CONDITION.	CONTACIOR_COIL
. PANEL <u>KS ()</u> - _ FOR <u>N1 ()</u> - RNAL TOR COIL	NEUTRAL_TO_CONTACTOR_COIL KS TERMINAL IS DE-ENERGIZED IN FIRE CONDITION.	
. PANEL SFCI O		_
INTACT <u>SF01</u> WITH <u>SF02</u> Y FAN <u>SF02</u>		_
IP 1 SF02 OF	NDRMALLY DPEN SPARE CONTACTS WILL MAKE COMMON TO NORMALLY DPEN WHEN SUPPLY FAN IS DN.	—
SPEED <u>VI+O</u> - DUTPUT <u>VI-O</u> -		_+ TO BMS
ON PCB	WIRE TO ECPM03 TERMINALS. CONFIGURABLE DUTPUT. SEE ECPM03 DWNERS MANUAL.	

Demand Control Ventilation, w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fa modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

DESCRIPTION OF OPERATION:



Projec 9355 No: Denver Phone: 3 Fax: 30	Design <u>Jacks</u> t Mana rthfield , CO 80 03.289 0.	/Planning on ager l Blvd. 0238 9.9378 9505 <u>E</u> operty of lans without <i>W.West is</i> sibility is deviations
Teocalli - Longmont	460 Main St.	Longmont, C.O. 80501
Project Number Scale:As Noted Date: 09.22.23 Revisions:		od
Sheet Number:	<sup>raw1</sup>	<b>7</b>

JVB

KS