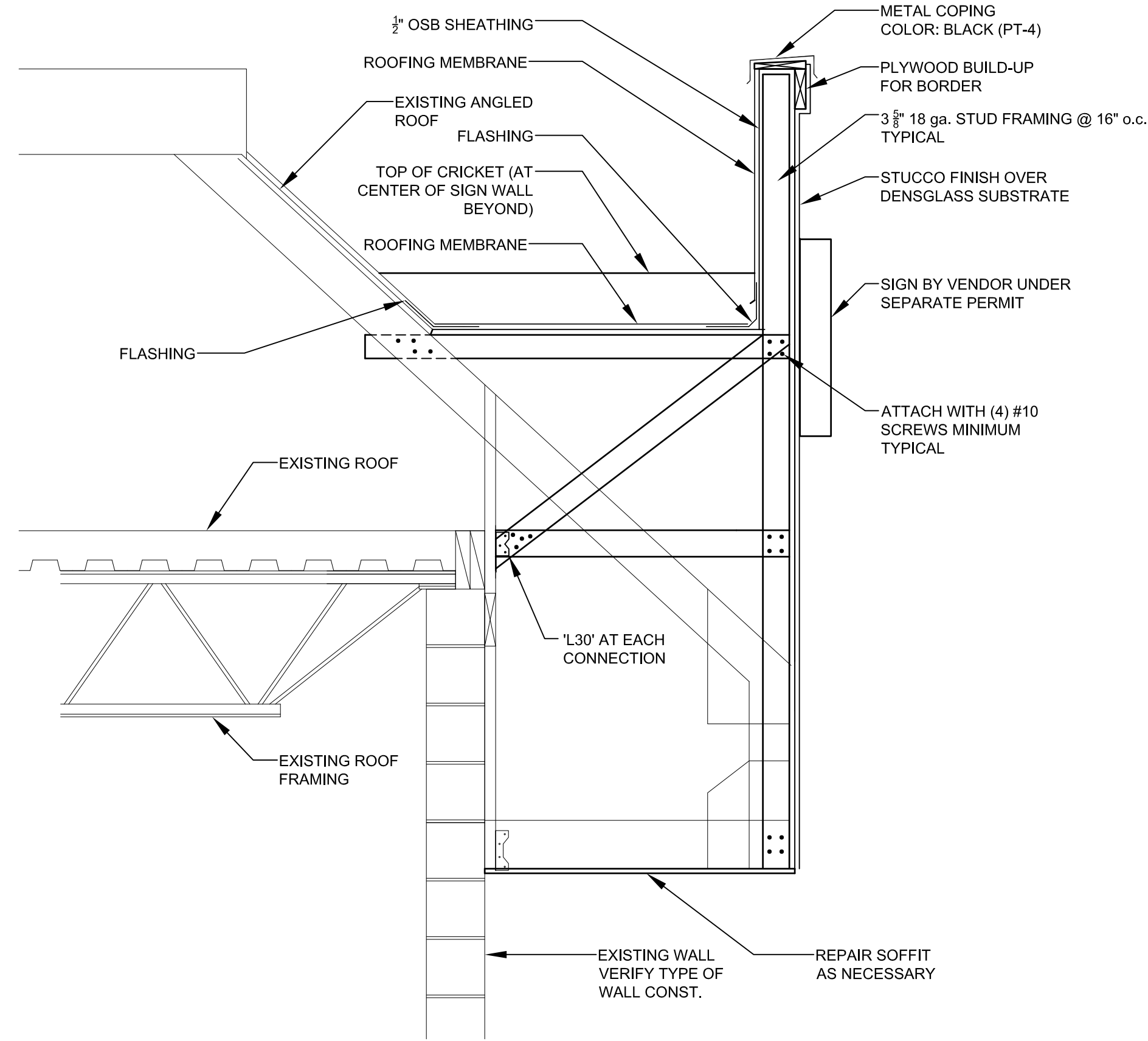
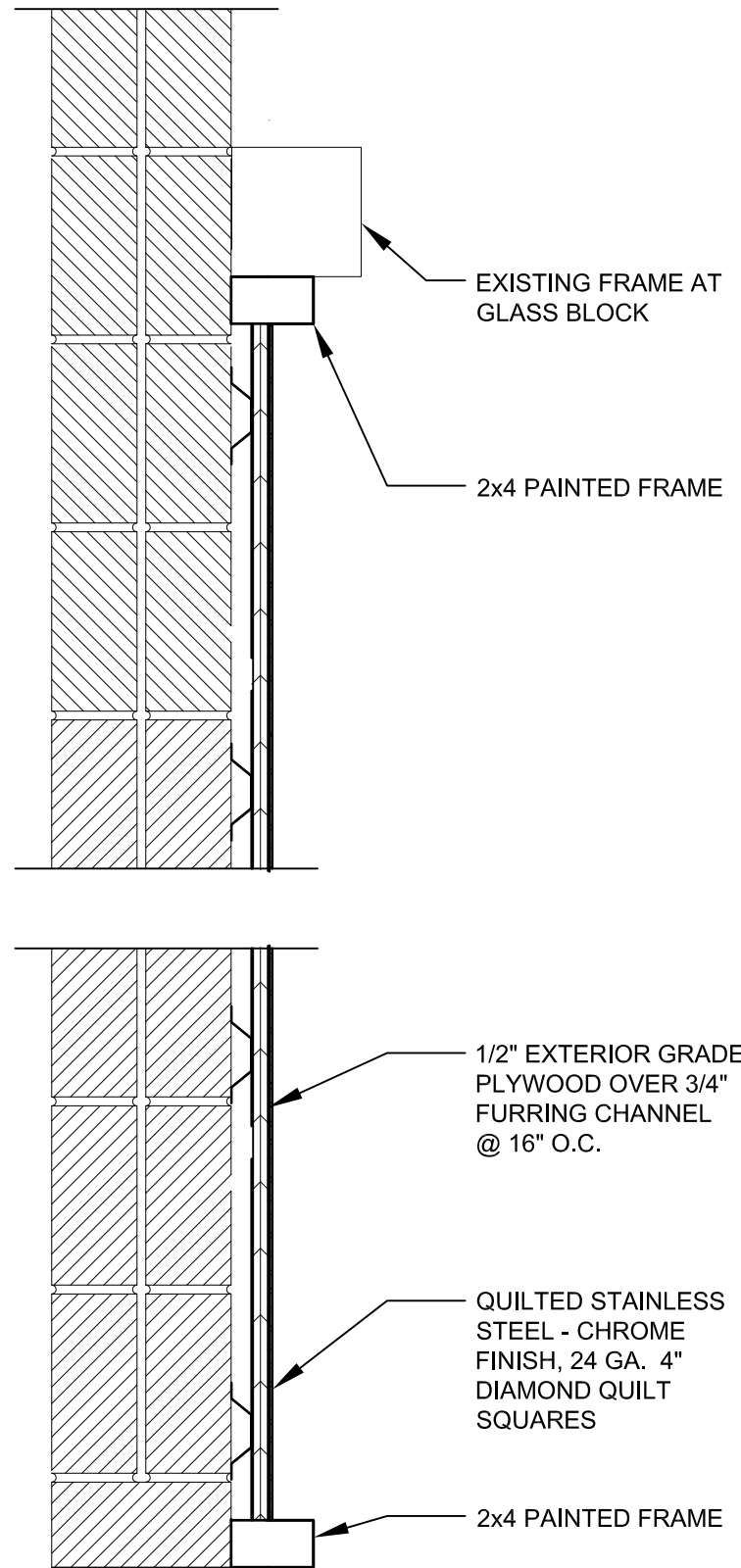
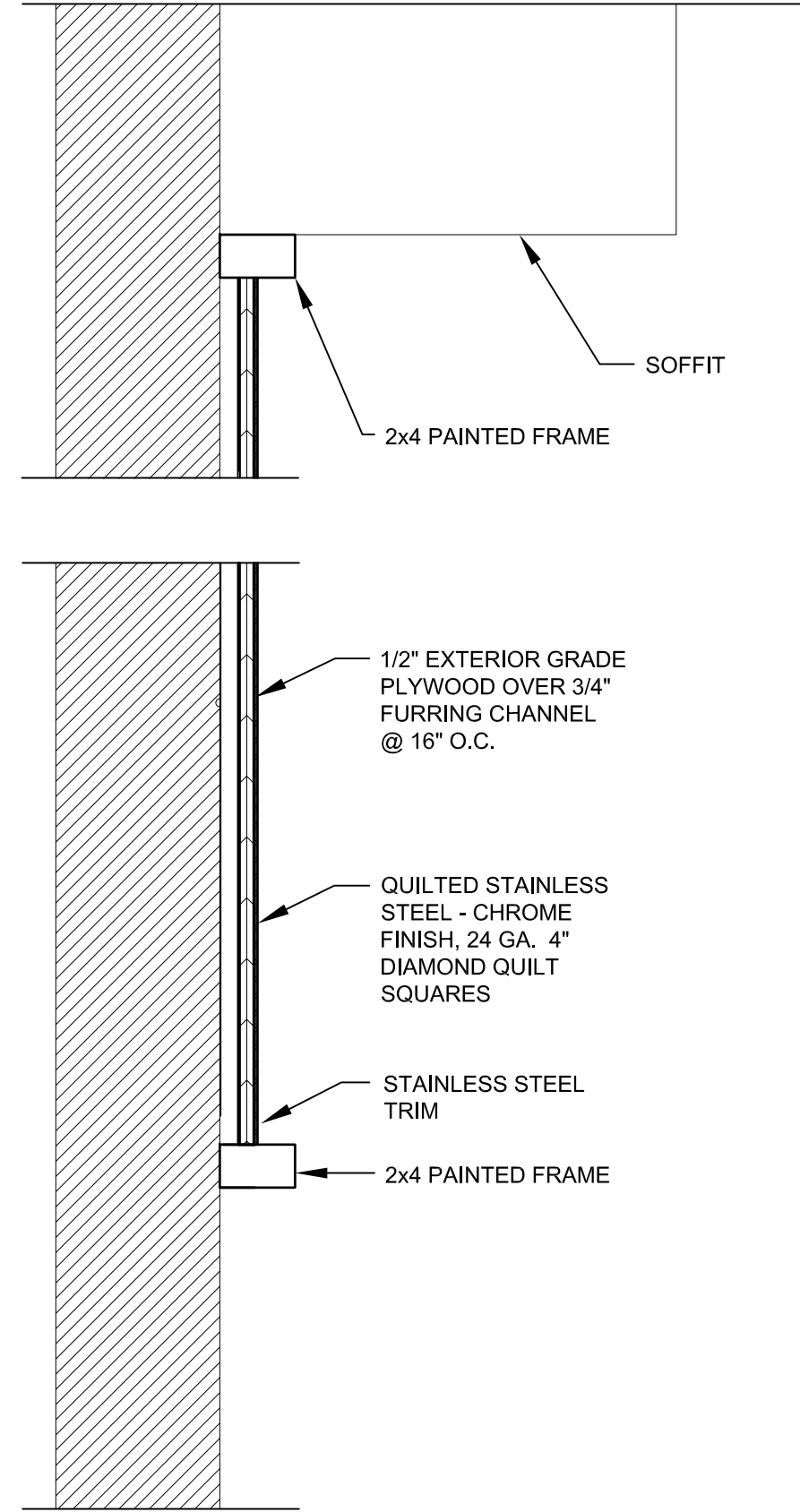




1 SIGN FRAMING DETAIL
3/4" = 1'-0"



2 SHEET METAL PLAN DETAIL
1 1/2" = 1'-0"



3 SHEET METAL SECTION DETAIL
1 1/2" = 1'-0"

4
3/4" = 1'-0"

5
3/4" = 1'-0"

6
3/4" = 1'-0"

7
3/4" = 1'-0"

8
3/4" = 1'-0"

7-31-24 FOR CONSTRUCTION

Gunther Toody's
Parker

SDC

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Parker, Colorado

JOB: #23-052
DRAWN BY: JCC
CHECKED BY: JCC

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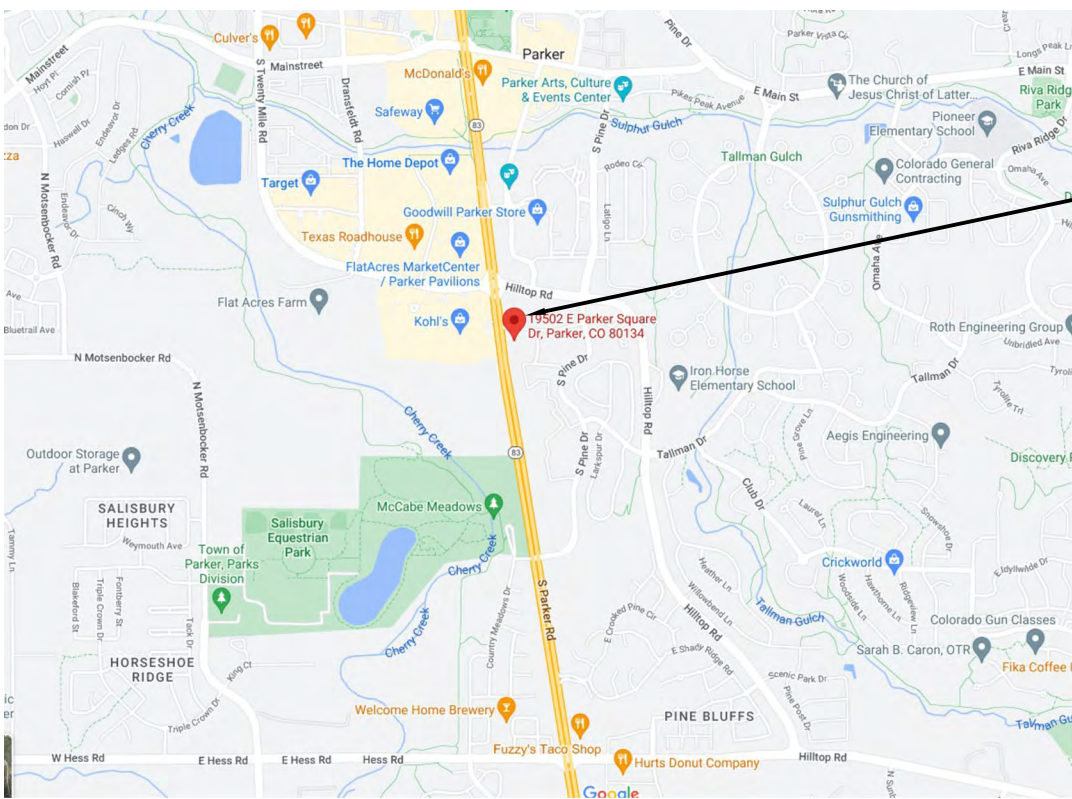
Date: August 8, 2024
Sheet Title:
Details
Sheet No.:
SK-1
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ABBREVIATION LEGEND

A/C	AIR CONDITIONING	LF	LINEAR FOOT
ACT	ACOUSTICAL CEILING TILE	LL	LANDLORD
ADA	AMERICANS W/ DISABILITIES ACT		
AFF	ABOVE FINISH FLOOR	MAT	MATERIAL
ADJ	ADJUSTABLE	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER
ALUM/AL	ALUMINUM	MISC	MISCELLANEOUS
APPROX	APPROXIMATE	MTD	MOUNTED
ARCH	ARCHITECTURAL	MTL	METAL
BD	BOARD	N	NORTH
BLDG	BUILDING	N/A	NOT APPLICABLE
BLKG	BLOCKING	NAT	NATURAL
BM	BEAM	NIC	NOT IN CONTRACT
		NOM	NOMINAL
CJ	CONTROL JOINT	NTS	NOT TO SCALE
CL	CENTER LINE		
CLG	CEILING	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CONC	CONCRETE		
CONSTR	CONSTRUCTION	PAF	POWDER ACTUATED FASTENER
CONT	CONTINUOUS	PLAM	PLASTIC LAMINATE
CT	CERAMIC TILE	PLT	PLATE
CTR	CENTER	PLYWD	PLYWOOD
		PR	PAIR
DEG	DEGREES	P	PAINT
DR	DOOR	PT	PORCELAIN TILE
		PTD	PAINTED
ELEC	ELECTRICAL	P.T.	PRESSURE TREATED
EQ	EQUAL		
EQUIP	EQUIPMENT	QT	QUARRY TILE
ETR	EXISTING TO REMAIN		
(E)	EXISTING		
		RAD	RADIUS
FA	FIRE ALARM	REC	RECESSED
FD	FLOOR DRAIN	RM	ROOM
FE	FIRE EXTINGUISHER	RO	ROUGH OPENING
FEC	FIRE EXTINGUISHER CABINET		
FF&E	FURNITURE, FIXTURES AND EQUIPMENT	SC	SOLID CORE
FLR	FLOOR	SD	SMOKE DETECTOR
FOF	FACE OF FINISH	SECT	SECTION
FOS	FACE OF STUD	SF	SQUARE FOOT (FEET)
FRT	FIRE RETARDANT TREATED	SIM	SIMILAR
		SSF	SOLID SURFACE MATERIAL
GA	GAUGE	S/S	STAINLESS STEEL
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR	T	TREAD
GWB	GYPSUM WALLBOARD	THK	THICKNESS
HC	HOLLOW CORE	UNO	UNLESS NOTED OTHERWISE
HM	HOLLOW METAL		
HT	HEIGHT	VIF	VERIFY IN FIELD
HVAC	HEATING, VENTILATION & COOLING		
HW	HOT WATER	W/	WITH
		W/O	WITHOUT
KES	KITCHEN EQUIPMENT SUPPLIER	WC	WATER CLOSET
		WH	WATER HEATER



GUNTHER TOODY'S



PROJECT LOCATION

SHEET INDEX AND ISSUE MATRIX

LEGEND:

O = SHEET ISSUED WITHOUT REVISIONS
X = SHEET ISSUED WITH REVISIONS OR NEW SHEET

SHEET	SHEET TITLE	BID APERMIT SUBMITTAL 01/30/2024	REVISION #1 04/29/2024	REVISION #2 06/03/2024	REVISION #4 07/23/2024
01 ARCHITECTURAL					
A000	COVER SHEET & PROJECT INFORMATION	X	X	X	X
A100	SITE PLAN	X	X	X	X
A101	DETAILS	X	X	X	X
A103	EXTERIOR ELEVATIONS	X	X	X	X
A110	LIFE SAFETY & ACCESSIBILITY PLAN	X	X	X	X
A120	DEMO PLAN	X	X	X	X
A121	DEMO RCP	X	X	X	X
A150	FLOOR PLAN	X	X	X	X
A151	ENLARGED RESTROOM PLAN	X	X	X	X
A170	FINISH PLAN	X	X	X	X
A175	FINISH SCHEDULE	X	X	X	X
A180	REFLECTED CEILING PLAN	X	X	X	X
A600	SPECIFICATIONS	X	X	X	X
A601	SPECIFICATIONS	X	X	X	X
02 FOOD SERVICE					
FS 1.0	EQUIPMENT FLOOR PLAN	X	X	X	X
FS 2.0	EQUIPMENT SCHEDULE	X	X	X	X
FS 2.1	EQUIPMENT SCHEDULE	X	X	X	X
FS 2.2	EQUIPMENT SCHEDULE	X	X	X	X
FS 3.0	ELECTRICAL ROUGH-IN PLAN	X	X	X	X
FS 4.0	PLUMBING ROUGH-IN PLAN	X	X	X	X
FS 5.0	SPECIAL CONDITIONS PLAN	X	X	X	X
FS 5.1	SPECIAL CONDITIONS PLAN	X	X	X	X
FS 6.0	EQUIPMENT ELEVATIONS	X	X	X	X
FS 6.1	EQUIPMENT ELEVATIONS	X	X	X	X
FS 6.2	EQUIPMENT ELEVATIONS	X	X	X	X
03 MECHANICAL					
M0.1	MECHANICAL SPECIFICATIONS & SCHEDULES	X	X	X	X
M100	HVAC PLAN	X	X	X	X
M300	ENERGY CODE COMPLIANCE	X	X	X	X
M301	ENERGY CODE COMPLIANCE	X	X	X	X
04 PLUMBING					
P010	PLUMBING SPECIFICATIONS	X	X	X	X
P100	PLUMBING SUPPLY PLAN	X	X	X	X
P200	PLUMBING SANITARY PLAN	X	X	X	X
P300	PLUMBING SCHEDULE AND DETAILS	X	X	X	X
P400	PLUMBING DIAGRAMS	X	X	X	X
05 ELECTRICAL					
E010	ELECTRICAL SPECIFICATIONS	X	X	X	X
E100	ELECTRICAL LIGHTING PLAN	X	X	X	X
E200	ELECTRICAL POWER PLAN	X	X	X	X
E201	ELECTRICAL POWER ROOF PLAN	X	X	X	X
E300	ELECTRICAL SCHEDULES	X	X	X	X
E400	ELECTRICAL DETAILS	X	X	X	X
E500	LIGHTING COMPLIANCE	X	X	X	X

SYMBOL LEGEND

	View Name View Scale		EQUIPMENT TAG
	LEVEL TAG		FURNITURE TAG
	BUILDING ELEVATION		WASHROOM ACCESSORIES TAG
	INTERIOR ELEVATION		ROOM TAG
	BUILDING SECTION		DOOR TAG
	SECTION / DETAIL		FINISH / WALL TAG
	KEY NOTE TAG		REVISION TAG

PROJECT TEAM

OWNER
BOB BRICKLES
C/O CAR 54 LLC
10232 HIGHLAND MEADOW CIRCLE, APT 101
PARKER, CO 80134
CONTACT: BOB BRICKLES
T: 720.201.4209
E: BOB.BRICKLES@GMAIL.COM

PROJECT VENDORS

LIGHTING
CAPITOL LIGHT
270 LOCUST STREET
HARTFORD, CT 06114
MATT KELLEY
MATT.KELLEY@CAPITOLLIGHT.COM

SIGNAGE

PRIORITY INC
837 RIVERFRONT DRIVE
SHEBOYGAN, WI 53081
LYNN POLLACK
LP@PRIORITYINC.COM

PROJECT INFORMATION

SCOPE OF WORK IS A REMODEL OF AN EXISTING RESTAURANT SPACE FOR A NEW RESTAURANT.

NEW WORK IS LIMITED TO UPDATING DINING/FRONT COUNTER AREAS, RESTROOMS, EXTERIOR, AND REPLACING KITCHEN EQUIPMENT AND INSTALLING NEW SIGNAGE. THE EXISTING EXHAUST HOOD(S) ARE NOT BEING REPLACED.

TYPE OF NEW WORK INCLUDES NEW FINISHES ON CEILINGS, FLOORS AND WALLS, NEW SOFFITS, NEW DINING TABLES AND SEATING, NEW LIGHTING AND NEW FOOD SERVICE EQUIPMENT.

DEFERRED PERMIT

SEPARATE SUBMITTALS:
GC AND SIGNAGE VENDOR

A. SIGNAGE VENDOR SHALL SUBMIT AND ACQUIRE SEPARATE PERMIT TO THE APPROPRIATE MUNICIPAL AGENCIES FOR REVIEW AND APPROVAL FOR THE FOLLOWING:
1. EXTERIOR SIGNAGE

B. FIRE ALARM : GC TO PROVIDE AND INSTALL FIRE ALARM SYSTEM.

OCC. TYPE	AREA SF / LF	/	LOAD FACTOR	FIXED SEATING	=	OCC. LOAD
ASSEMBLY - FIXED BOOTHS/CHAIRS				132	=	132 OCC.
RESTROOM / CIRCULATION	560 SF	/	N/A	N/A	=	0 OCC.
KITCHEN	1,324 SF	/	200 SF	N/A	=	7 OCC.
STORAGE	136 SF	/	300 SF	N/A	=	1 OCC.
OFFICE	81 SF	/	150 SF	N/A	=	1 OCC.
UTILITY	60 SF	/	300 SF	N/A	=	1 OCC.
WAITING	224 SF	/	5 SF	N/A	=	45 OCC.
STAFF				4	=	4 OCC.
TOTALS:	4,495 SF					191 OCC.

PREVIOUS USE:

Previous Code Analysis:
Use: Restaurant
Classification: A2
A = 4495 sf
Occupant load = 241 occupants
Construction type = V-B
Building is non-sprinklered
Allowable building height = 65 feet
Allowable building area = 30,000 sf

PLUMBING FIXTURE CALCULATIONS

TOTAL PLUMBING OCCUPANTS: 99	MALE: 95.5		FEMALE: 95.5	
FIXTURE TYPE	REQ'D	PROVIDED	REQ'D	PROVIDED
WATER CLOSET	2	1*	2	2
URINALS	N/A	2	N/A	N/A
LAVATORY	2	2	2	2
DRINKING FOUNTAIN	1	**	1	**

* - URINAL PROVIDED IN LIEU OF SECOND REQUIRED MALE WATER CLOSET IN ACCORDANCE WITH 2021 IPC SEC 424.2

** - FREE DRINKING WATER PROVIDED TO GUESTS IN LIEU OF REQUIRED DRINKING FOUNTAIN

7-31-24 FOR CONSTRUCTION

Gunther Toody's
Parker

SDC

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Collaborative LLC

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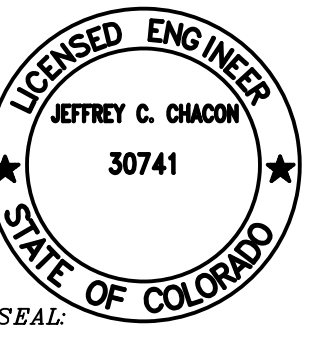
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sdccolorado.com

Gunther Toody's Remodel
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Parker, Colorado

JOB: #23-052

DRAWN BY: JCC

CHECKED BY: JCC



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No.	Change	Date
1		4.29.24
2		6.3.24
3		6.19.24
4		7.23.24

Issued for construction 7.31.24

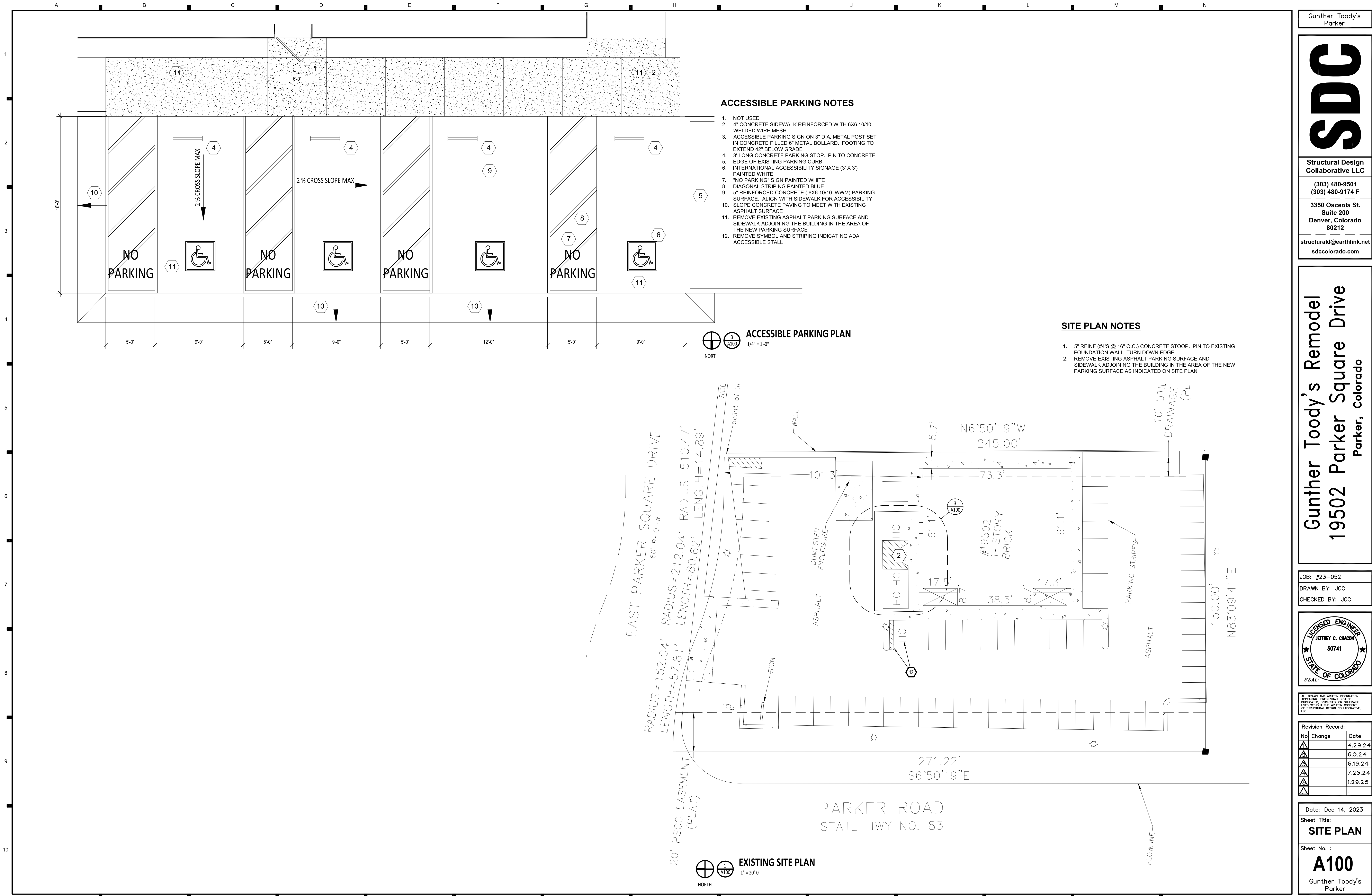
Date: Dec 14, 2023

Sheet Title:
COVER SHEET/
PROJECT INFO

Sheet No. :

A000

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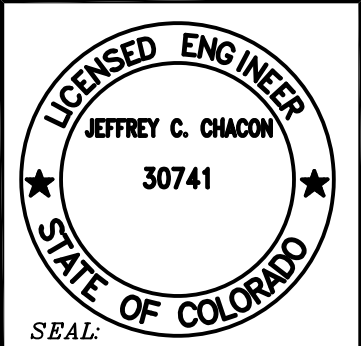
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5		1.29.25

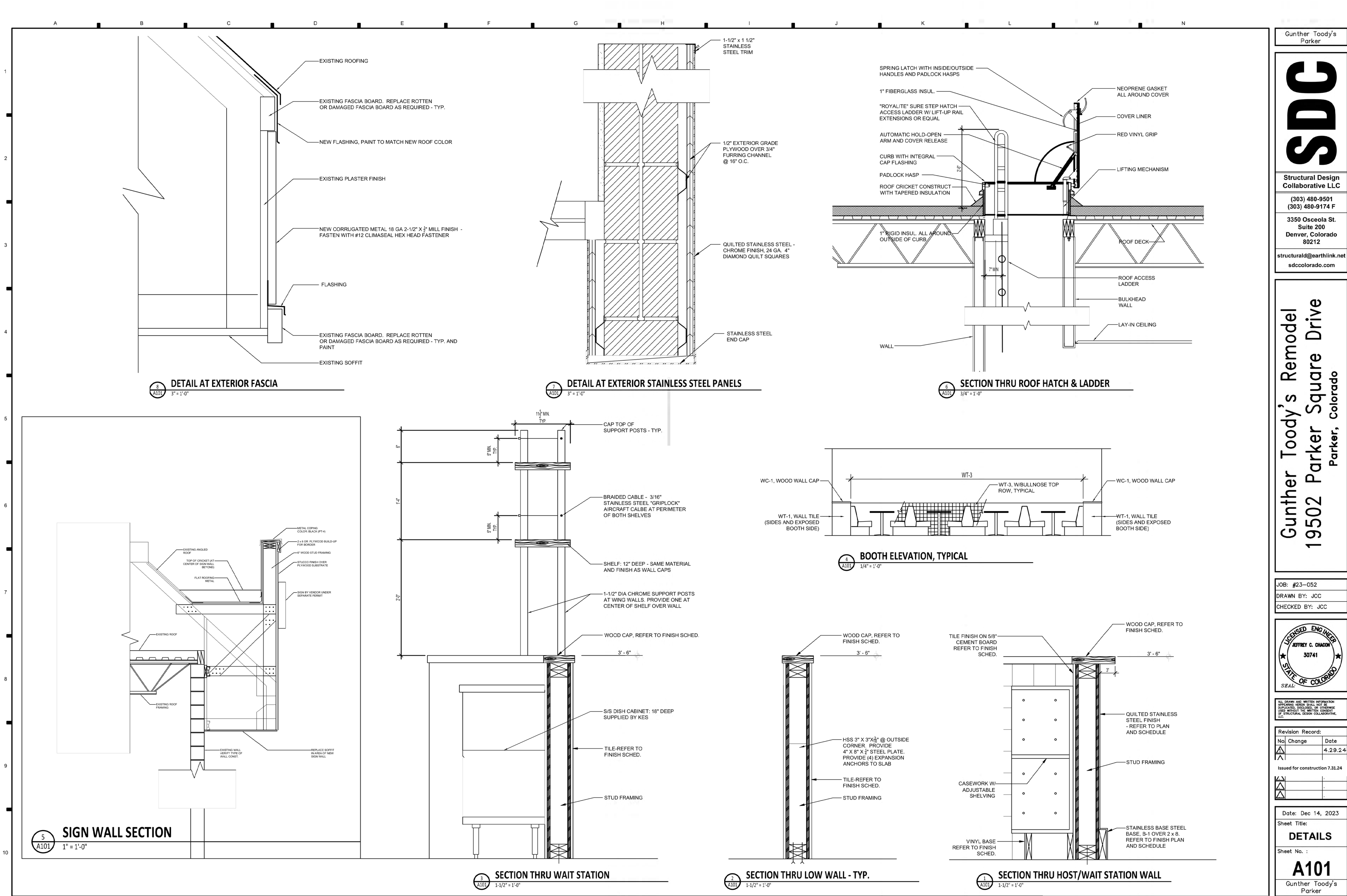
Date: Dec 14, 2023

Sheet Title:
SITE PLAN

Sheet No. :

A100

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JOB: #23-052
DRAWN BY: JCC
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LICENSED ENGINEER
JEFFREY C. CHAMON
30741
STATE OF COLORADO
SEAL

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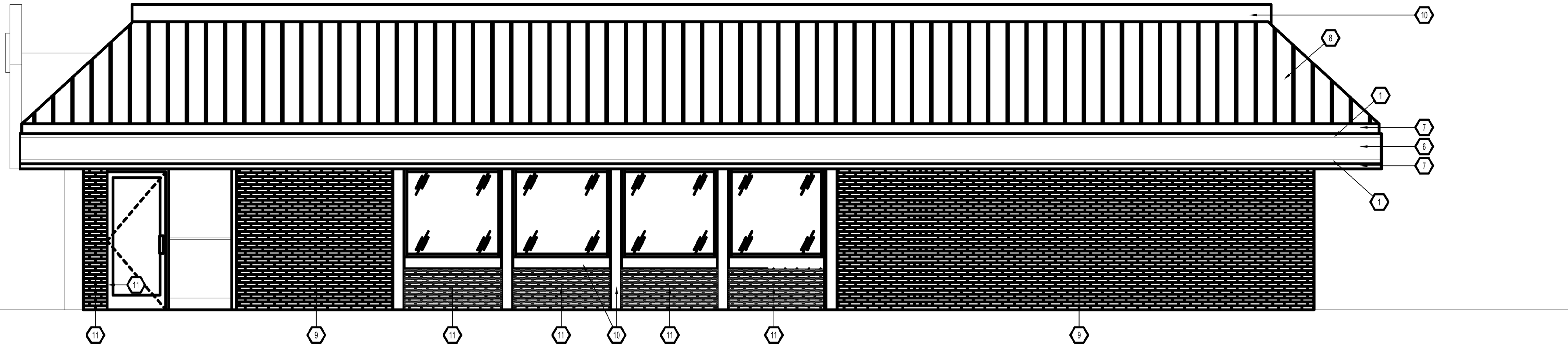
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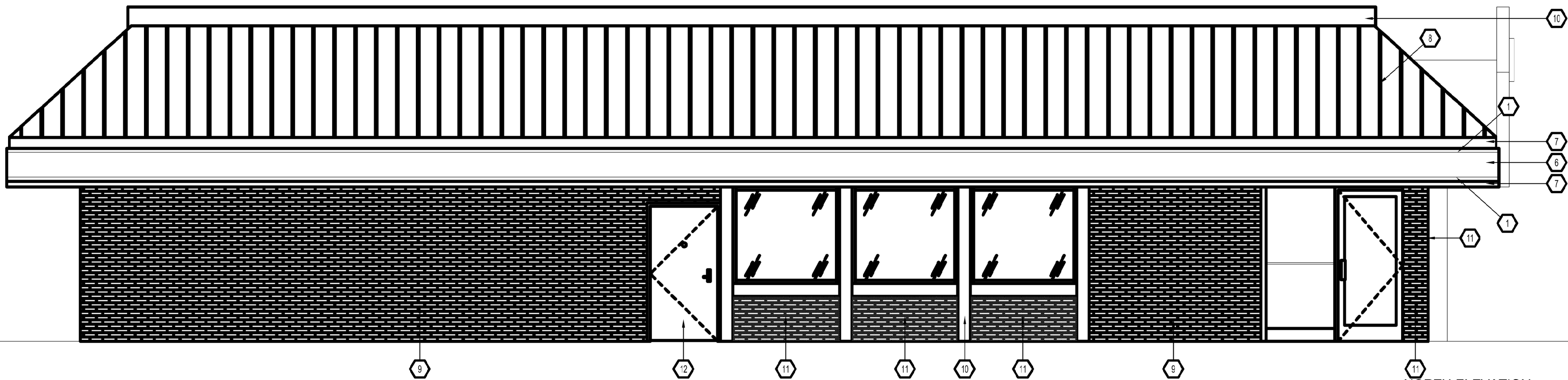
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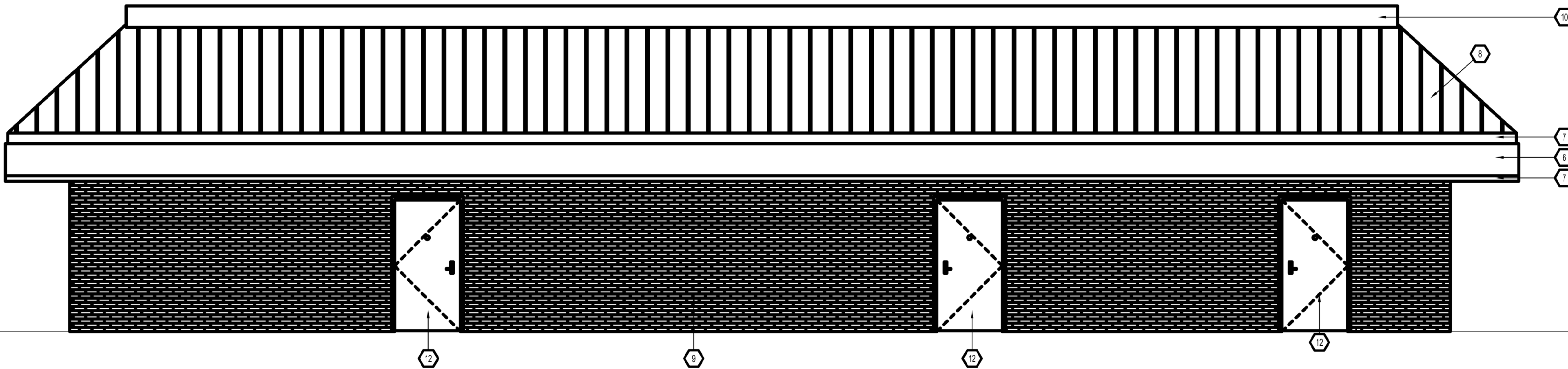
7-31-24 FOR CONSTRUCTION



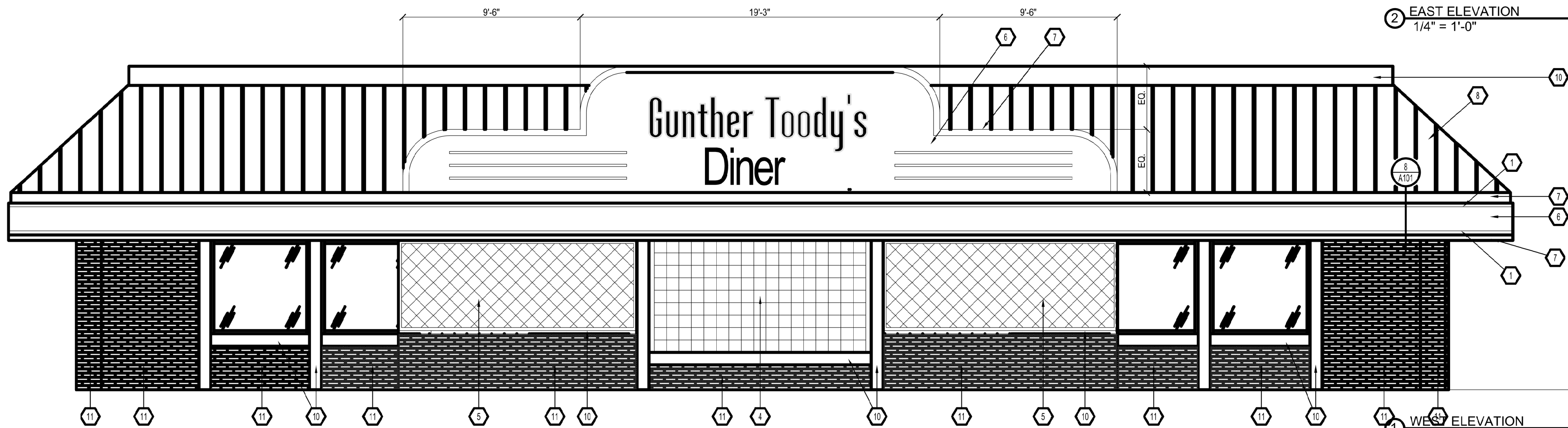
4 SOUTH ELEVATION
1/4" = 1'-0"



3 NORTH ELEVATION
1/4" = 1'-0"



2 EAST ELEVATION
1/4" = 1'-0"



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

GENERAL NOTES

- A PATCH AND REPAIR ANY DAMAGED EIFS/STUCCO PRIOR TO COVERING WITH NEW FINISH OR REPAINTING THE BUILDING
- B PATCH AND REPAIR OR REPLACE ROTTEN FASCIA TRIM AND HORIZONTAL SOFFIT AS REQUIRED

KEYNOTES

- 1 NEON ROPE LIGHT
- 2
- 3
- 4 NEW GLASS BLOCK IN EXISTING STOREFRONT WINDOW OPENING. NUBIO 6" X 6" X 3"
- 5 NEW QUILTED STAINLESS STEEL FINISH, QS-1, REFER TO DETAIL 7/A101
- 6 REPAIR DAMAGED STUCCO ON FASCIA AS REQUIRED, REPAINT EP-3, TYP. UNLESS NOTED OTHERWISE.
- 7 REPLACE EXISTING FASCIA TRIM AS REQUIRED. PAINT TRIM EP-4, TYP.
- 8 PAINT EXISTING METAL ROOF EP-1, TYP.
- 9 PAINT EXISTING BRICK WALL AND BRICK COLUMNS EP-1, TYP. UNLESS NOTED OTHERWISE
- 10 REPAINT EXISTING HORIZONTAL AND VERTICAL TRIM AT WINDOWS EP-4 AS REQUIRED, TYP.
- 11 PAINT EXISTING BRICK BELOW WINDOWS EP-3 UNLESS NOTED OTHERWISE, TYP.
- 12 PAINT HOLLOW METAL DOORS AND FRAMES THE SAME COLOR AS ADJACENT NEW WALL COLOR, TYP.
- 13 NEW POLISHED CORRUGATED METAL FINISH, ECM-1 ON FASCIA WITH FLASHING PER DETAIL

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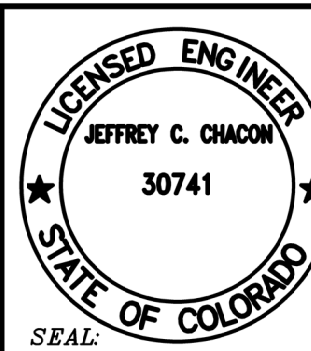
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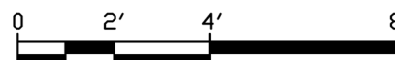
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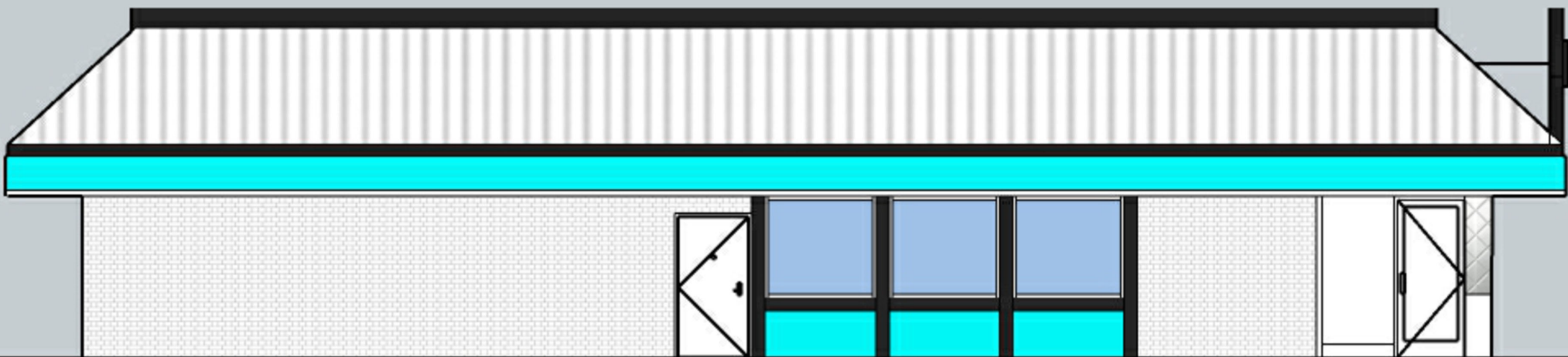
Sheet Title:
**EXTERIOR
ELEVATIONS**

Sheet No. :

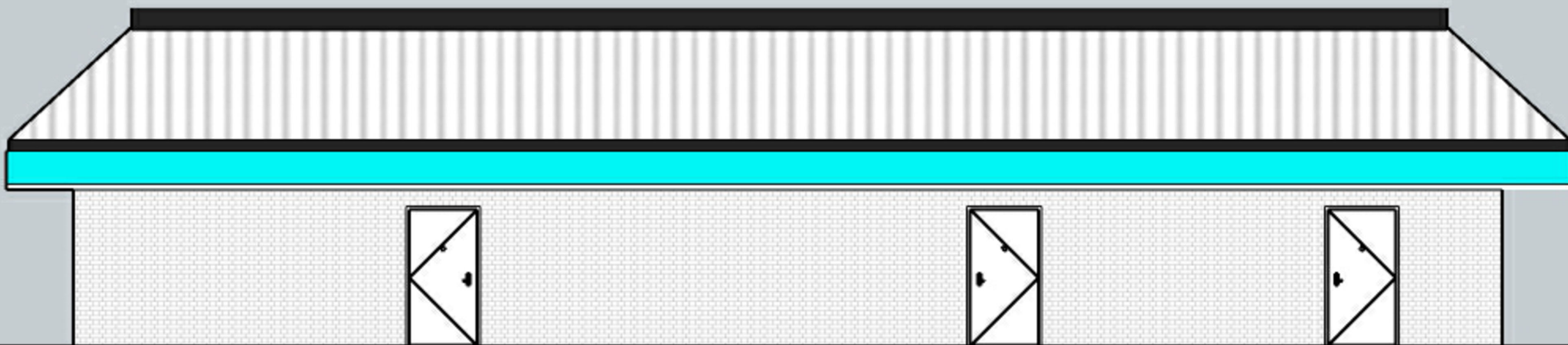
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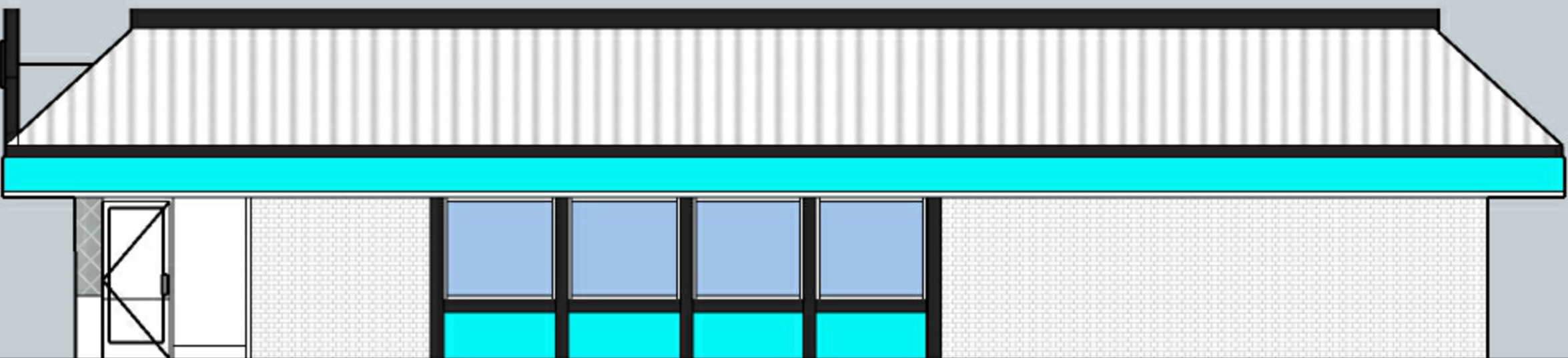




NORTH ELEVATION



EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION

Paint Colors: Sherwin Williams
Cream: #1368
Turquoise: #6942
Sign Red: #6868
Black: Match existing

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No	Change	Date
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△		-
△		-
△		-
△		-
△		-

Date: August 8, 2024

Sheet Title:

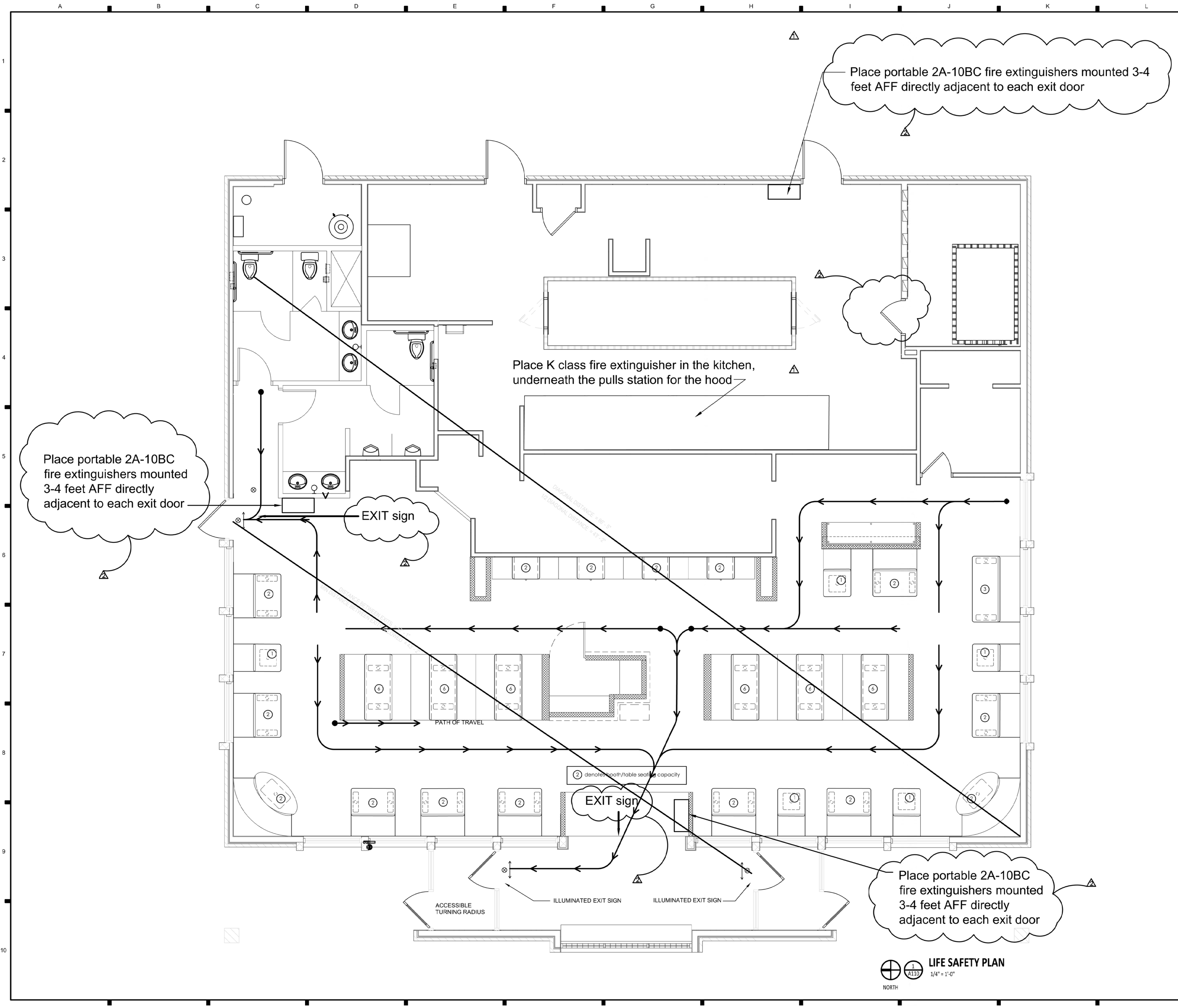
Elevations

Sheet No. :

E-1

Gunther Toody's
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7-31-24 FOR CONSTRUCTION



- GENERAL NOTES**
- A FRONT ENTRANCE TO THE BUILDING AND EVERY DOORWAY WHICH IS LOCATED WITHIN AN ACCESSIBLE PATH OF TRAVEL SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES AND BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF ANY SPECIAL KNOWLEDGE OR EFFORT
 - B MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR INTERIOR OR EXTERIOR DOORS, AND 15 POUNDS FOR FIRE DOORS
 - C ACCESSIBLE WALKING SURFACES NOT TO EXCEED RUNNING SLOPE OF 1:20, MAX CROSS SLOPE OF 1:48. NOTIFY ARCHITECT OF NON-COMPLIANCE
 - D REFER TO ACCESSIBILITY DETAIL SHEET AND ACCESSIBILITY CODE FOR FURTHER ACCESSIBILITY REQUIREMENTS

KEYNOTES

OCCUPANT LOAD = 96 OCCUPANTS
REQUIRED EGRESS WIDTH = $96 \times 0.2 = 19.2"$
DOOR WIDTHS = $3'-5" = 41"$
EGRESS DOOR CAPACITY = $41/2 = 205$ OCCUPANTS

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JOB: #23-052
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Revision Record:	
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1	4.29.24
2	6.3.24

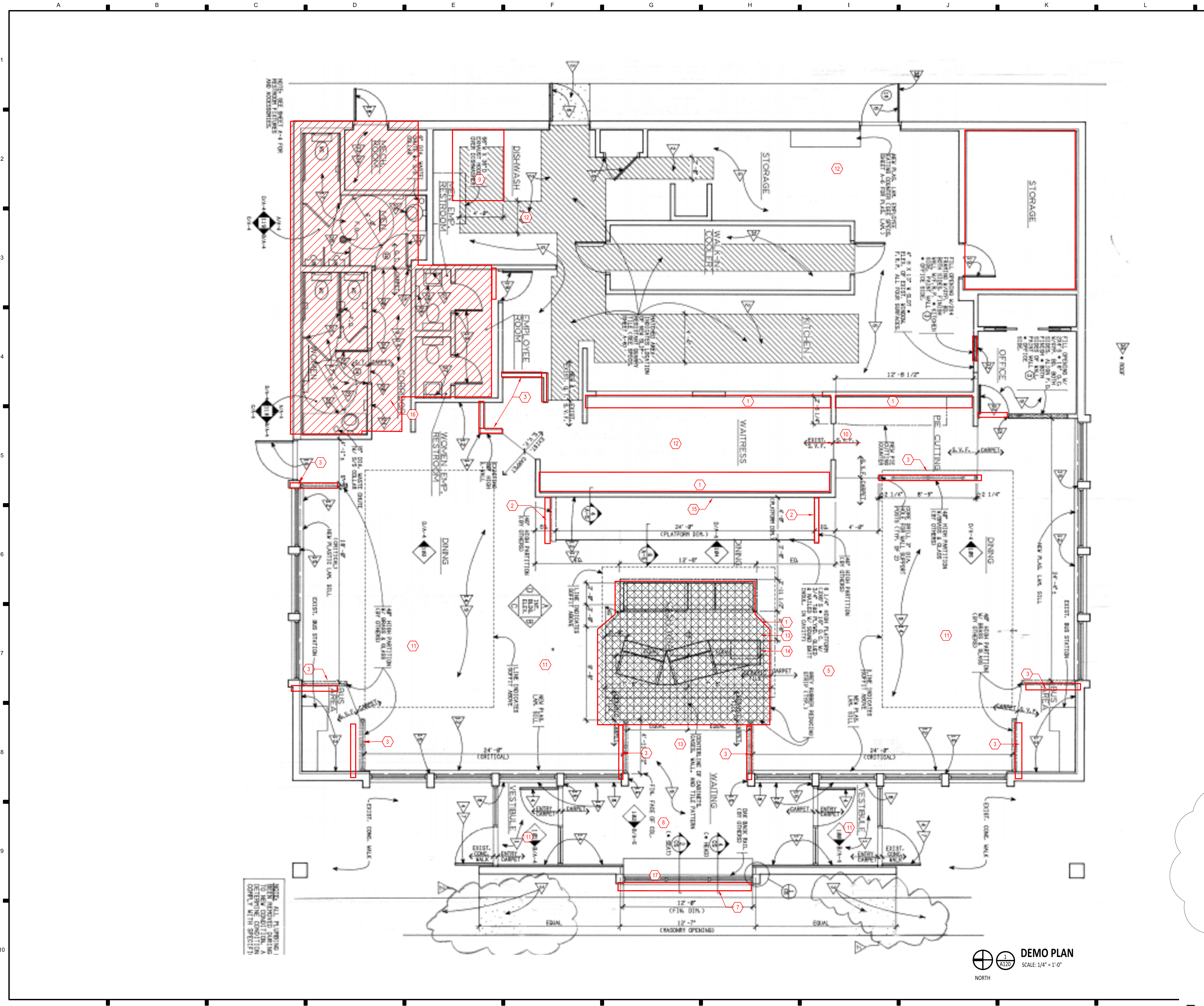
Issued for construction 7.31.24

Date: Dec 14, 2023
SAFE SAFETY & ACCESSIBILITY PLAN

Sheet No. :
A110

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7-31-24 FOR CONSTRUCTION



FLOOR PLAN DEMOLITION NOTES

1. REMOVE CASEWORK FROM SERVICE COUNTER/HOSTESS AREA
2. REMOVE WING WALL
3. REMOVE WING WALL/DECORATIVE PARTITION
4. REMOVE DOOR
5. REMOVE METAL DOOR FRAME, OPENING TO BE TRIMMED IN STAINLESS STEEL
6. REMOVE FURNITURE/BOOTH/TABLES ETC. COORDINATE DISPOSAL WITH OWNER
7. REMOVE GLASS STOREFRONT, PREPARE FOR GLASS BLOCK
8. REMOVE VINYL FLOOR AND PREPARE CONCRETE SURFACE FOR NEW TILE INSTALLATION
9. REMOVE TILE AND PREPARE CONCRETE SURFACE FOR NEW TILE INSTALLATION
10. NOT USED
11. REMOVE CARPET AND PREPARE FOR NEW TILE INSTALLATION
12. REMOVE EXISTING FRP IN KITCHEN AND SERVICE AREA, PREPARE WALL SURFACE FOR NEW FRP
13. REMOVE FLOOR TILE PREPARE FOR NEW TILE INSTALLATION
14. COORDINATE THE LOCATION OF ELECTRICAL AND DATA CONDUIT LOCATIONS WITH NEW HOSTESS STAND
15. REMOVE ART-WORK, TRIM MATERIAL, WALL FINISHES, ETC. TYPICAL THROUGHOUT THE DINING AREA, TYPICAL
16. THE EXISTING RESTROOMS TO BE REMOVED IN THEIR ENTIRETY INCLUDING WALLS, FLOORING, AND CEILING. REMOVE PLUMBING FIXTURES, WATER LINES, ELECTRICAL AND PREPARE FOR NEW.
17. REMOVE CURTAINS AND SEATING THIS AREA.

Total area of work 900 sf = 20% of total building area

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Gunther Toody's Remodel
19502 Parker Square Drive
Parker, Colorado

JOB: #23-052
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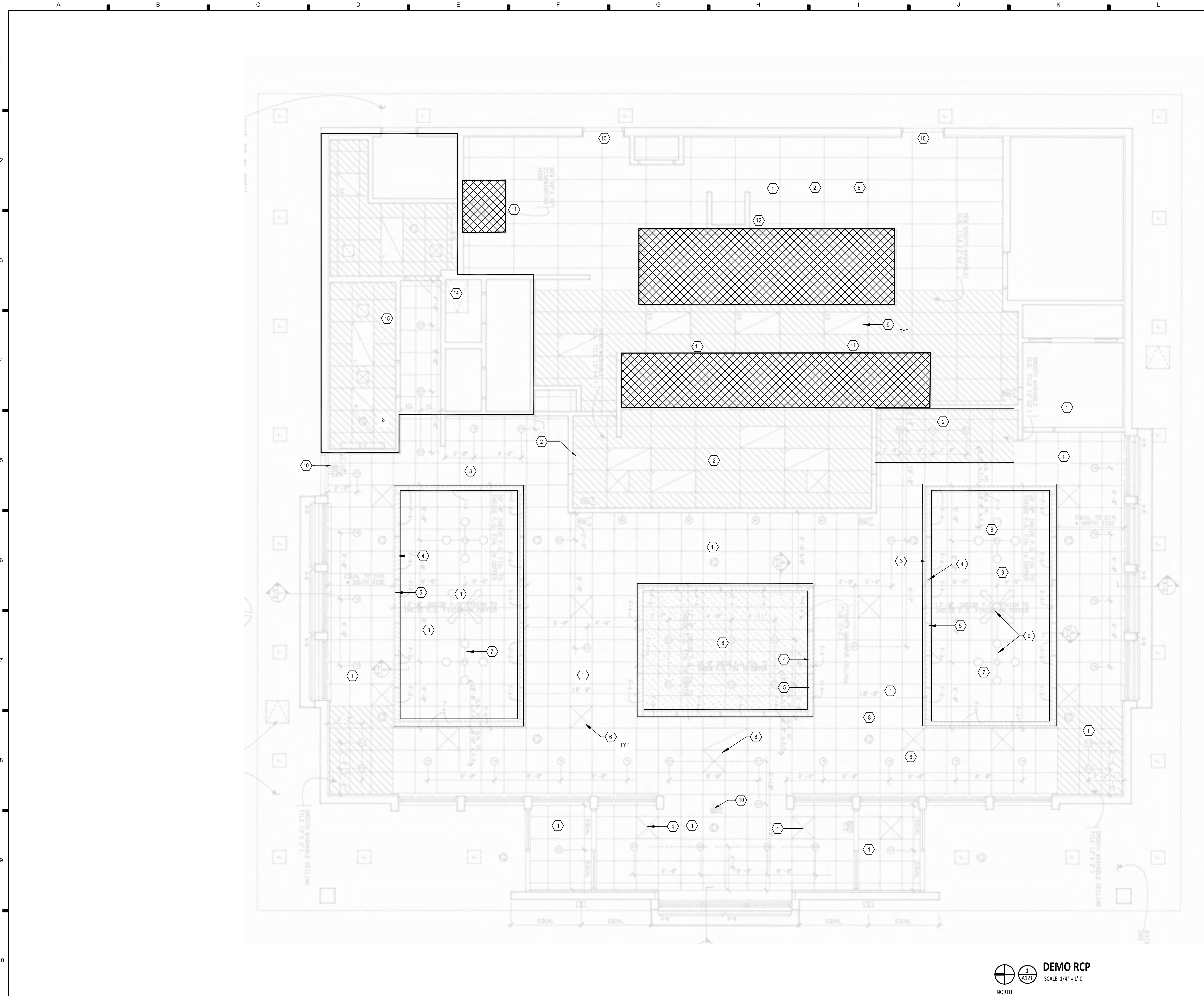
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1		4.29.24
2		6.3.24
3		6.19.24
4		7.23.24

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Sheet Title:
DEMO PLAN

Sheet No. :
A120
Gunther Toody's
Parker



RCP DEMOLITION NOTES

1. REMOVE CEILING PADS AND GRID
2. REMOVE VINYL FACED CEILING PADS
3. REMOVE CEILING GRID IN OFFSET
4. RETAIN TRIM AT PERIMETER OF CEILING OFFSET
5. RETAIN FLUORESCENT LIGHTING IN CEILING OFFSET
6. RETAIN EXISTING HVAC DIFFUSERS AND RETURN GRILLS. RELOCATE IN SAME LOCATION.
7. ALL EXISTING LIGHTING TO BE REMOVED. COORDINATE DISPOSAL WITH OWNER
8. REMOVE EXISTING CEILING PADS AND GRID
9. REMOVE ALL CEILING LIGHTS
10. EMERGENCY EXIT LIGHTS TO REMAIN
11. HOOD TO REMAIN
12. WALKIN COOLER AND SHROUD TO REMAIN
13. REMOVE SPEAKERS, CAMERAS, ETC. IN THE CEILING/CEILING PADS. REFLECTED CEILING PLAN.
14. REMOVE LADDER AND ROOF HATCH. REUSE AND RELOCATE PER REFLECTED CEILING PLAN.
15. REFER TO DEMO PLAN. REMOVE CEILINGS. KEEP DIFFUSERS AND GRILLS TO BE REPLACED.

PROJECT NAME:
**GUNTHER TOODY'S
REMODEL**

PROJECT ADDRESS:
**19502 E. PARKER
SQUARE DRIVE
PARKER, CO 80134**

ISSUE RECORD	
DATE	DESCRIPTION
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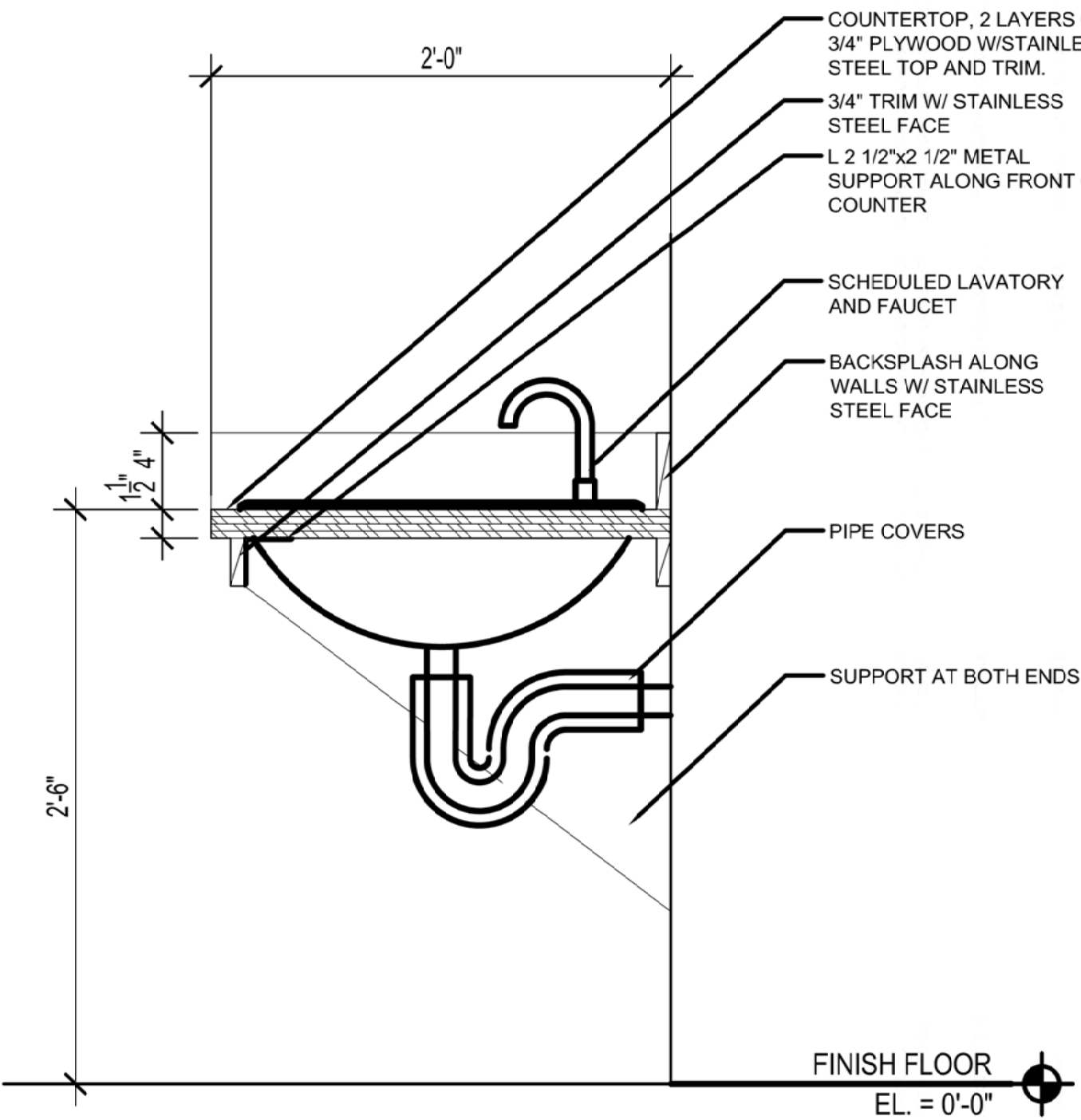
REVISIONS		
REV.	DATE	DESCRIPTION

DEMO RCP

A121

TOILET ACCESSORIES SCHEDULE					
Mark	Qty.	Item	Manufacturer	Model No.	Remarks
1	6	GRAB BAR	BOBRICK	B-5806	
2	3	TOILET PAPER HOLDER	BOBRICK	B-4388	
3	2	SANITARY NAPKIN DISPOSAL	BOBRICK	B-35139	
4	4	MIRROR	OVALCREST	SOHO FRAMED MIRROR	30X40 BEVELED
5	3	TOILET PARTITION	BOBRICK	DESIGNER SERIES HPL	BLACK 1595-60
6	1	URINAL PARTITION	BOBRICK	DESIGNER SERIES HPL	BLACK 1595-60
7	2	PAPER TOWEL DISPENSER	BOBRICK	B-262	
8	2	HAND DRYER	EXCEL	EXCELERATOR	COLOR: BLACK
9	4	SOAP DISPENSER	BOBRICK	B-2013	

NOTES:
1. TOILET ACCESSORIES SHALL BE AS LISTED OR EQUAL IN QUALITY.
2. PROVIDE PAPER TOWEL DISPENSER AND SOAP DISPENSER @ EACH HAND SINK.



11 LAVATORY COUNTER SECTION
SCALE: 1 1/2" = 1'-0"

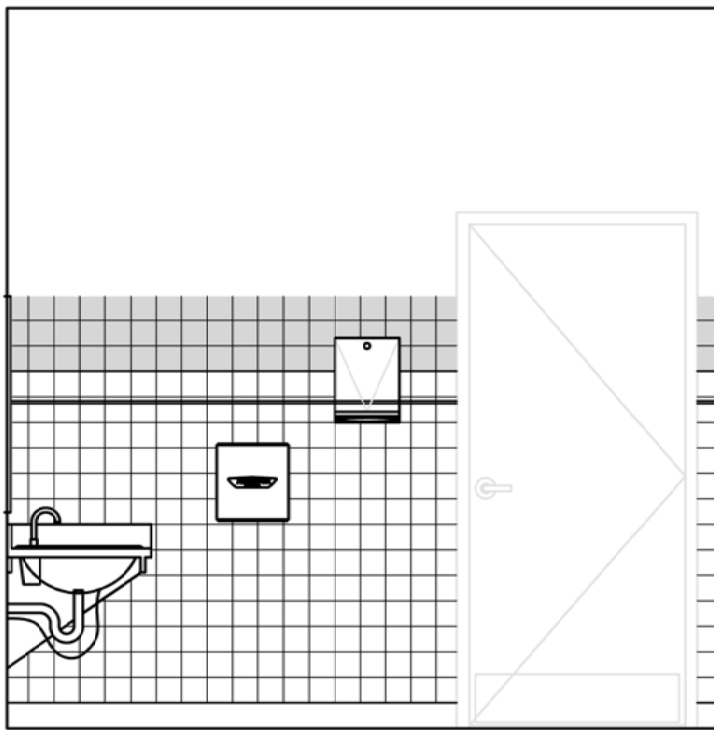
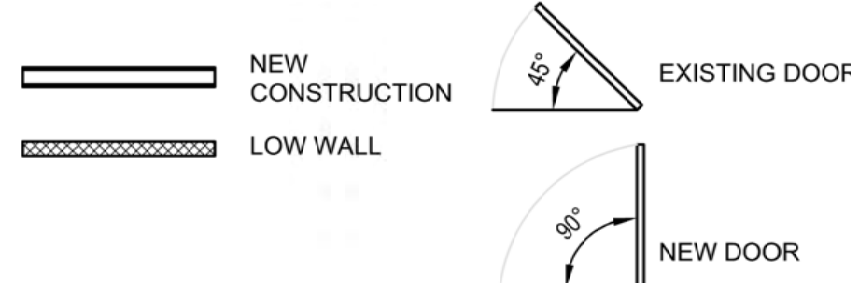
GENERAL NOTES

- A ALL DIMENSIONS ARE TO FACE OF FRAMING OR CENTERLINE OF STRUCTURE, UNO
- B ALL DIMENSIONS MARKED ACCOMPANIED BY "CLEAR" TEXT ARE TO BE MEASURED FROM FACE OF SUBSTRATE
- C ALL DIMENSIONS ARE TO BE HELD PER DRAWING UNO. CONTACT ARCHITECT IF DISCREPANCY EXISTS DUE TO AS-BUILT CONDITIONS
- D PROVIDE DEFLECTION TRACKS AT ALL WALLS THAT CONNECT TO THE UNDERSIDE OF STRUCTURE
- E SURFACE MOUNTED PIPING IS NOT ACCEPTABLE. PIPING AND CONDUITS OF ALL TYPES MUST BE CONCEALED WITHIN WALLS, FLOORS AND CEILING, UNO

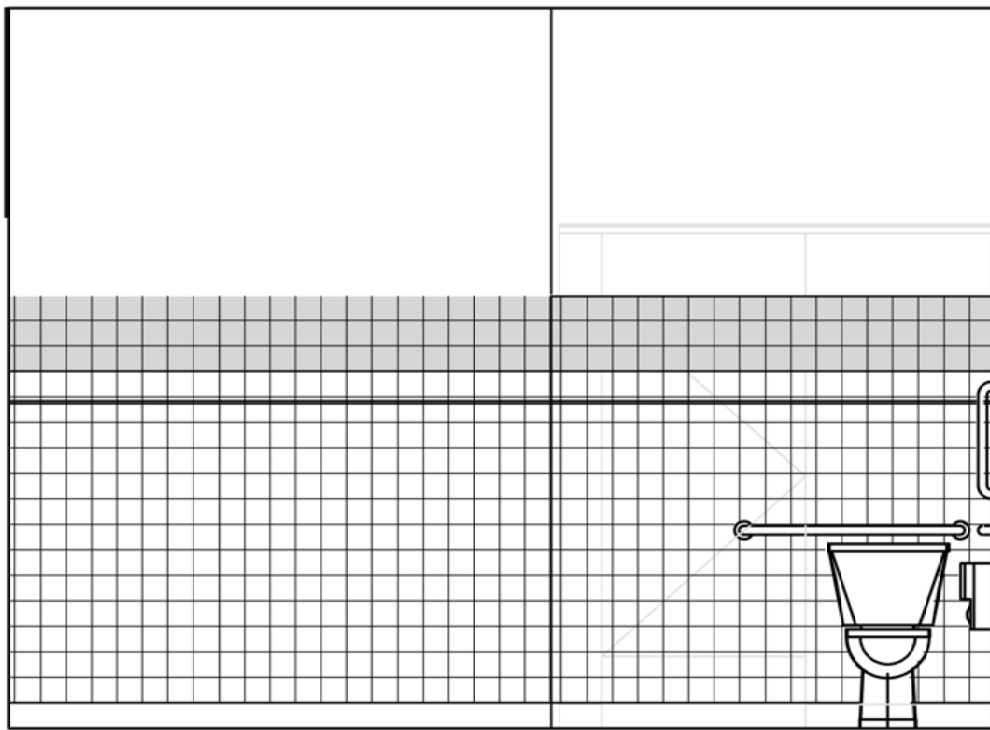
KEYNOTES

- 1. NEW STAINLESS STEEL RESTROOM PARTITIONS

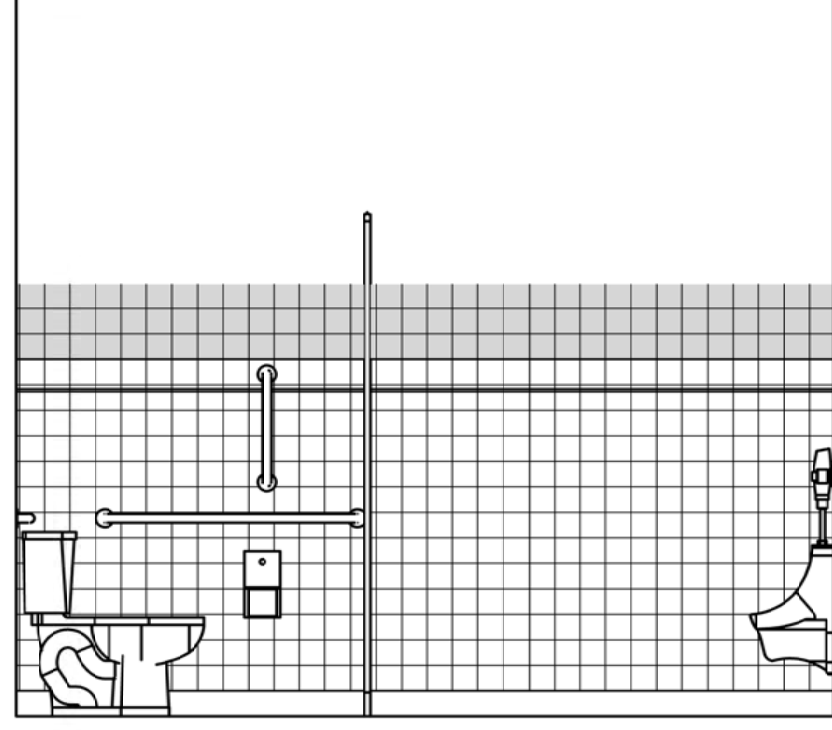
SYMBOL LEGEND



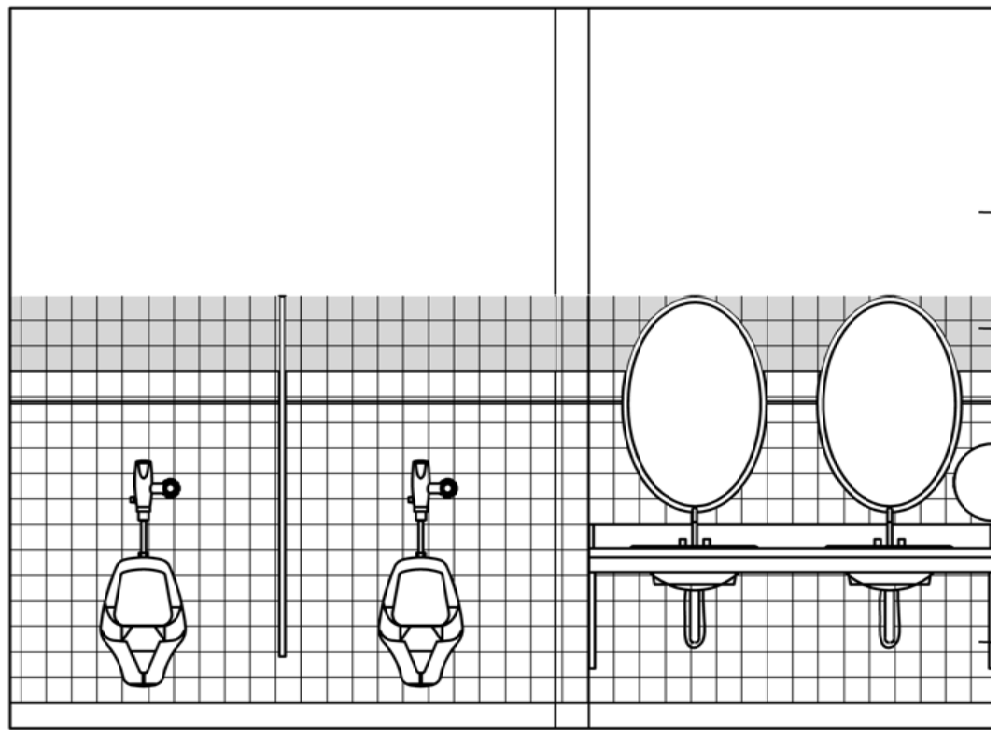
5 MEN'S RR ELEV.
SCALE: 3/8" = 1'-0"



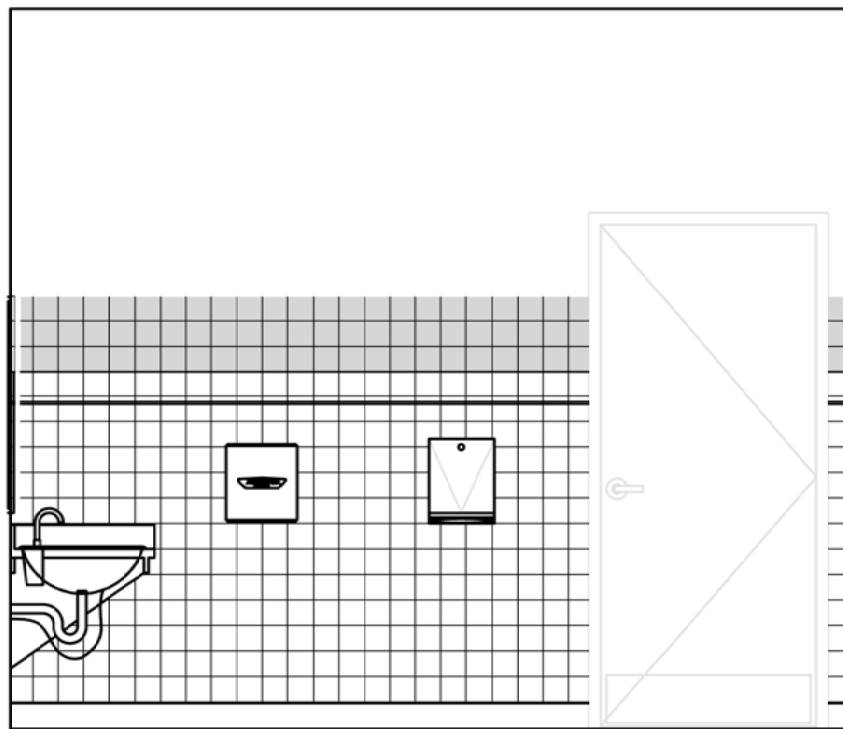
6 MEN'S RR ELEV.
SCALE: 3/8" = 1'-0"



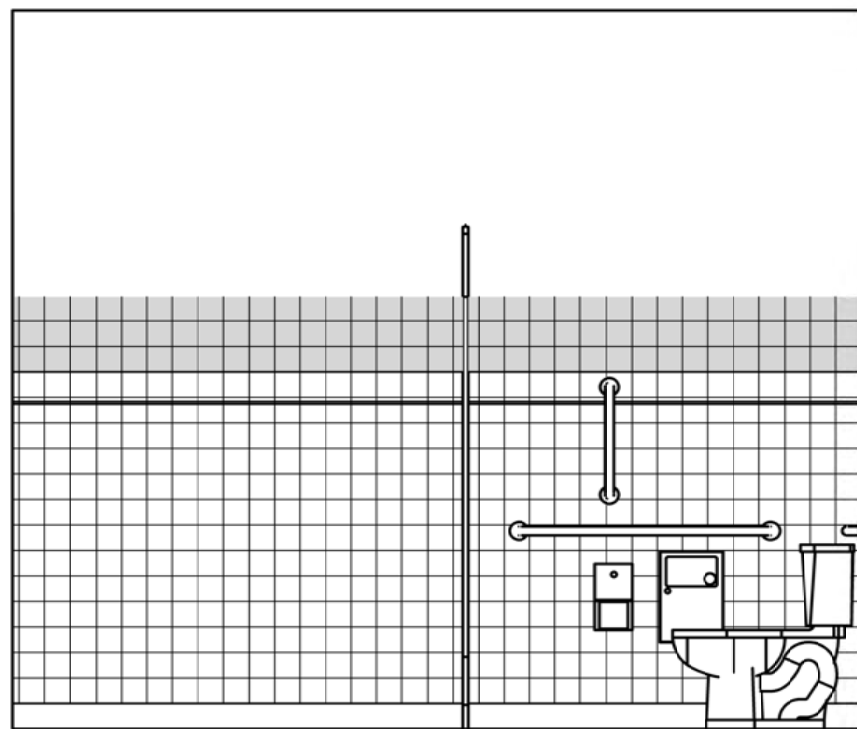
7 MEN'S RR ELEV.
SCALE: 3/8" = 1'-0"



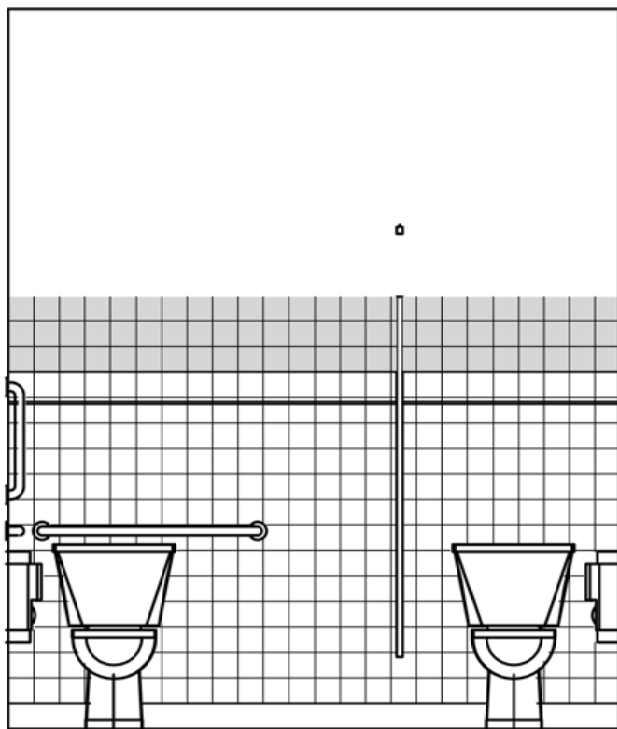
8 MEN'S RR ELEV.
SCALE: 3/8" = 1'-0"



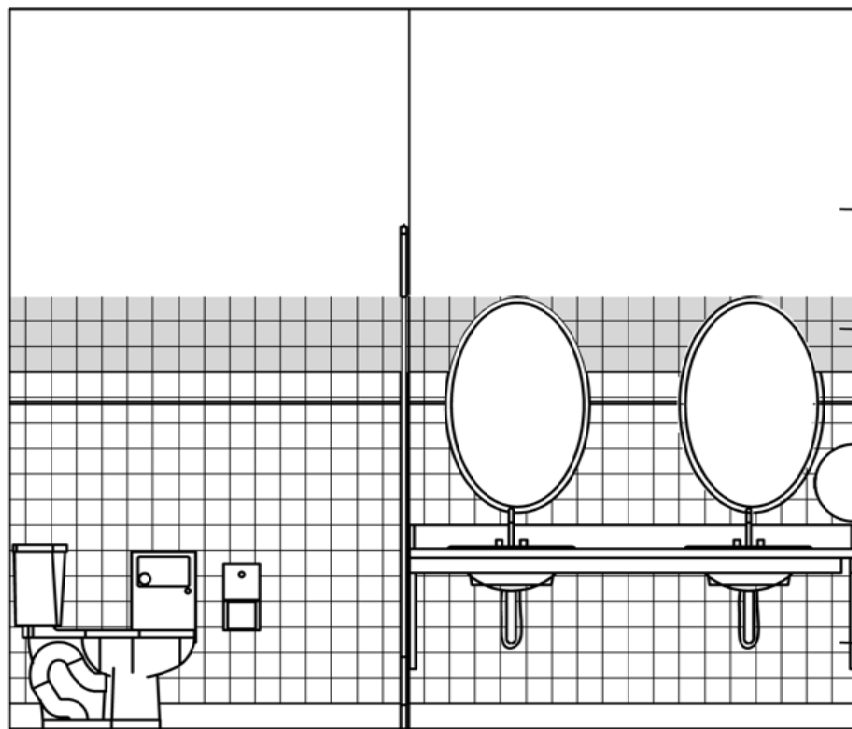
9 WOMEN'S RR ELEV.
SCALE: 3/8" = 1'-0"



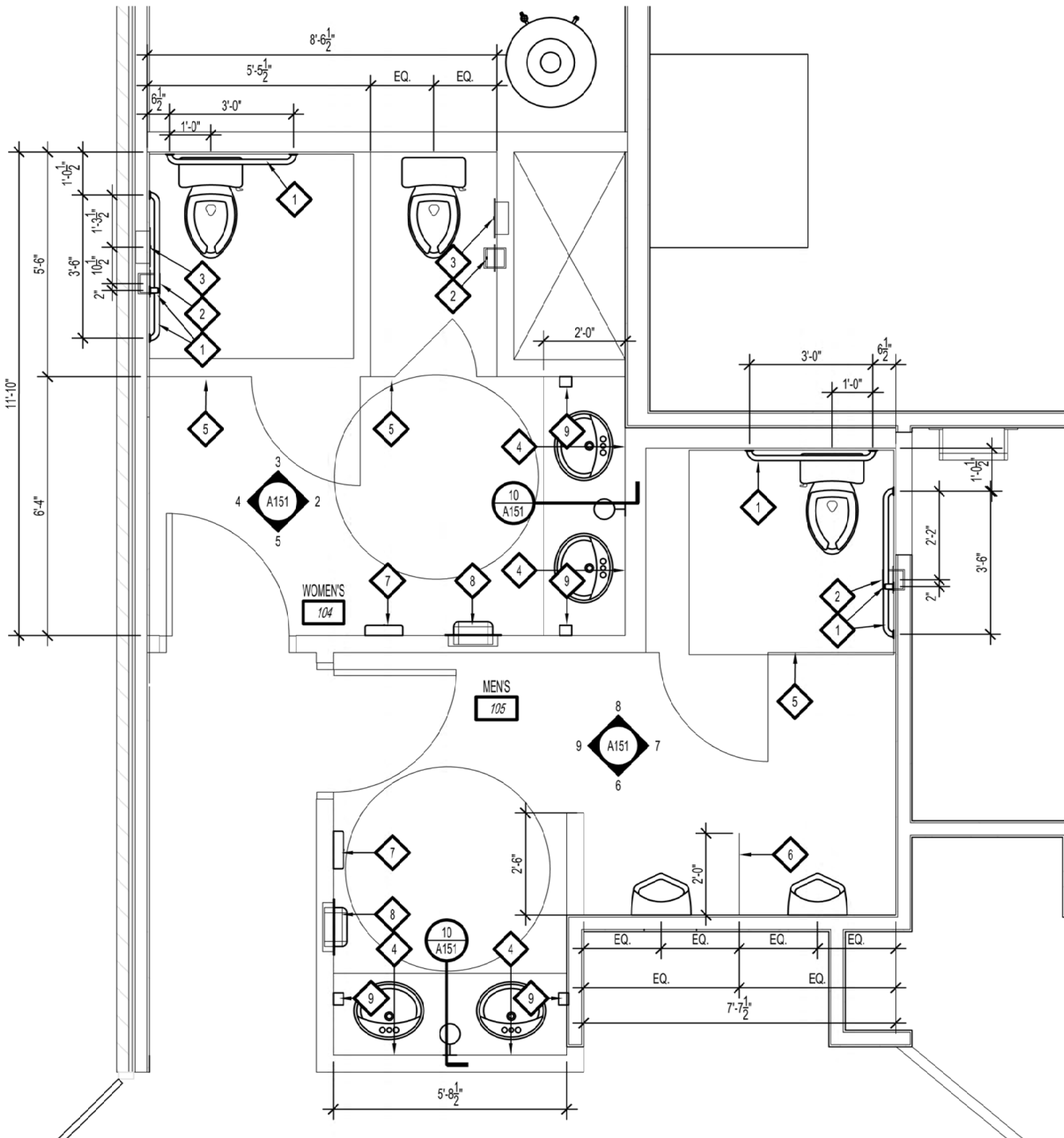
10 WOMEN'S RR ELEV.
SCALE: 3/8" = 1'-0"



11 WOMEN'S RR ELEV.
SCALE: 3/8" = 1'-0"



12 WOMEN'S RR ELEV.
SCALE: 3/8" = 1'-0"



ENLARGED RESTROOM PLAN
SCALE: 3/8" = 1'-0"

7-31-24 FOR CONSTRUCTION

Gunther Toody's
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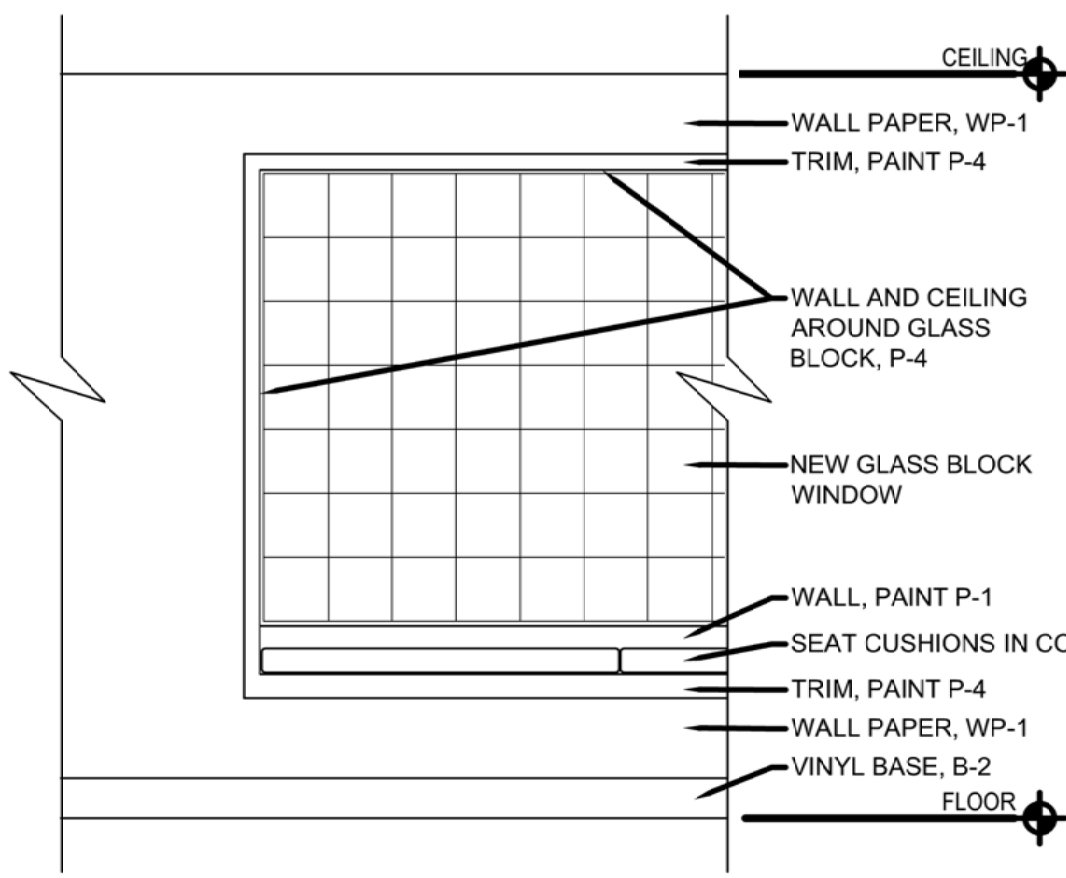
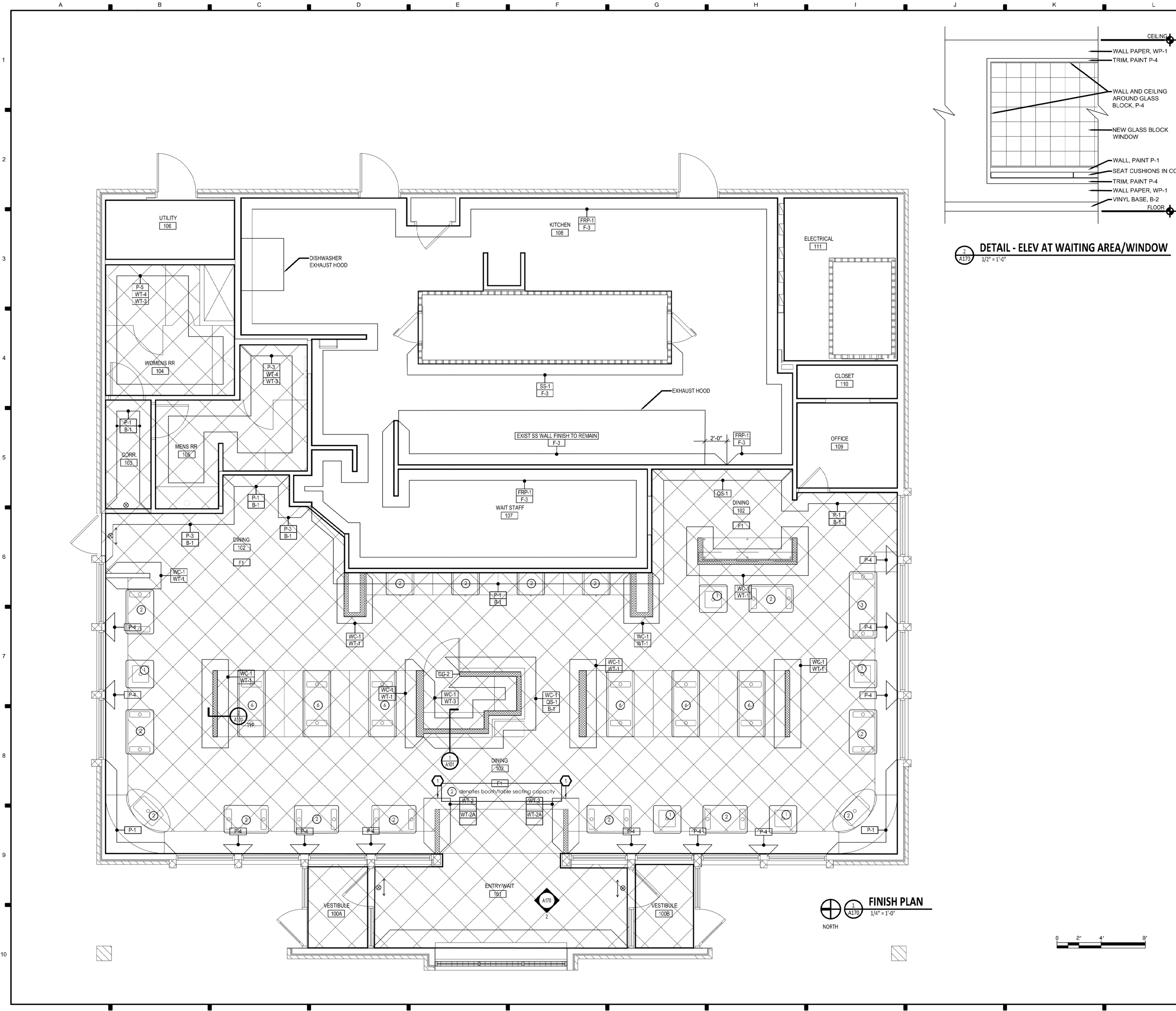
RESTROOM

PLAN

A151

Gunther Toody's

Parker



2
A170
DETAIL - ELEV AT WAITING AREA/WINDOW
1/2" = 1'-0"

GENERAL NOTES

A TILE INSTALLER TO COORDINATE WITH GC AND PROVIDE LAYOUTS OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO MINIMIZE CUT TILES IN THE HORIZONTAL DIRECTION AND ELIMINATE CUT TILES IN THE VERTICAL DIRECTION ON ANY WALLS. CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTORS COST

B ALL FINISHES ARE TO BE SMOOTH, DURABLE AND EASILY CLEANABLE

KEYNOTES

1 TILE PATTERN TO BE RANDOM (NON-REPEATING PATTERN) 50/50 MIX OF GLOSSY AND MATTE TILE

FINISH LEGEND

SYMBOL	DESCRIPTION
—	WALL FINISH
↘	FINISH TRANSITION AT DIAGONAL
—	WALL FINISH ABOVE
↗	FINISH TRANSITION ABOVE
⌊	STAINLESS WALL ENDCAP

ROOM	ROOM NAME & NUMBER
101	ROOM FLOOR FINISH
F-1	SECOND VERTICAL FINISH*
P-1	FIRST VERTICAL FINISH*
WT-1	BASE FINISH
B-1	

*NOTE: REFER TO INTERIOR ELEVATIONS FOR VERTICAL FINISH TRANSITION CONDITIONS

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LICENSED ENGINEER
JEFFREY C. CHACON
30741
STATE OF COLORADO
SEAL

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FINISH PLAN
Sheet No. :
A170
Gunther Toody's
Parker

NOTE: ALL FINISHES APPLIED IN FOODSERVICE AREAS TO BE SMOOTH, DURABLE AND EASILY CLEANABLE

B-2	VINYL WALL BASE	JOHNSONITE	SERIES: VINYL WALL BASE HEIGHT: 4" COLOR: BLACK
B-3	QUARRY TILE	DALTILE OR EQUAL	HEIGHT: 6" COLOR: VERIFY WTH OWNER
WALL FINISH - ALL MUST COMPLY WITH 21 IFC CHAPTER 8 AND MEET ALL ASTM AND UL REQUIREMENTS FOR FLAME SPREAD			
FRP-1	FIBERGLASS REINFORCED PLASTIC	MARLITE	SERIES: STANDARD FRP, P10 FINISH: PEBBLED, WHITE NOTES: INSTALL WITH COR
SSF	SOLID SURFACE	STARON - ASPEN LITE	
WT-1	WALL TILE: BLACK PENNY TILE - GLOSSY	CREATIVE MATERIALS GROUP	SERIES: OMNI GLAZED MOSAIC STYLE: BLACK PENNY ROUND

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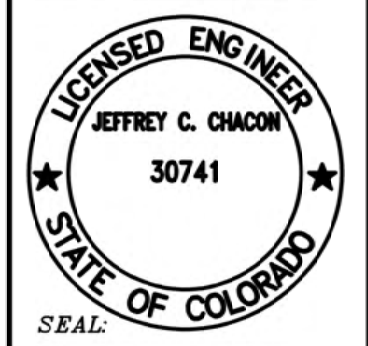
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Sheet Title:
**FINISH
SCHEDULE**

Sheet No. :

A175

Gunther Toody's Parker



GENERAL NOTES

- A SEE MEP DRAWINGS FOR LIGHT FIXTURE SCHEDULE. MUST COORDINATE WITH ARCHITECT'S CEILING PLAN. NOTIFY ARCHITECT AND ENGINEER OF DISCREPANCIES
- B CONFIRM LOCATION OF EXIT SIGNS, HORN STROBES AND SMOKE DETECTORS PRIOR TO LAYOUT
- C CONSULT ARCHITECT FOR DIRECTION WITH CONFLICT BETWEEN STRUCTURE, MECHANICAL EQUIPMENT, LIGHTING, ETC.
- D DIMENSIONS PROVIDED ARE FROM FACE OF FRAMING OR TO CENTERLINE OF FIXTURE, UNO
- E GC TO SUPPLY HANGERS AND SUPPORTS REQUIRED FOR INSTALLATION OF LIGHT FIXTURES
- F COORDINATE ACT GRID START POINTS WITH ARCHITECT. CENTER GRID IN CLOSED ROOMS, UNO. AVOID LESS THAN 1/2 TILES WHERE POSSIBLE
- G FINISH OF HVAC DIFFUSERS AND GRILLES TO MATCH ADJACENT CEILING FINISH, UNO
- H GC TO COORDINATE WITH ALL TRADES INVOLVED TO ENSURE CLEARANCES FOR ALL CEILING RELATED APPURTENANCES NECESSARY TO MAINTAIN THE SPECIFIED FINISH CEILING HEIGHT AS NOTED ON THE DRAWINGS

KEYNOTES

- 1 NEW BULKHEAD AT RELOCATED ROOF LADDER EXTEND TO CEILING HEIGHT REFER TO THE ELECTRICAL LIGHTING PLAN FOR ACTUAL LOCATION AND SPECIFICATION FOR LIGHTING.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	RECESSED CAN FIXTURE
	GENERAL LIGHTING PENDANT
	GENERAL LIGHTING SURFACE MOUNT
	FEATURE LIGHTING PENDANT
	LED STRIP
	DECORATIVE WALL SCONCE
	LIGHTED EXIT SIGNAGE
	EMERGENCY LIGHTING
	SECURITY CAMERA

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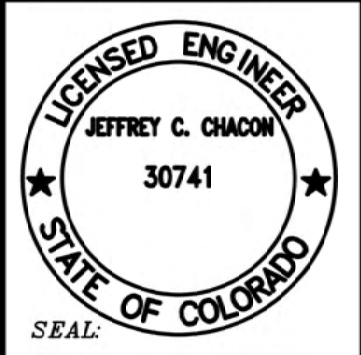
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2		

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Sheet Title:
**REFLECTED
CEILING PLAN**

Sheet No. :

A180
Gunther Toody's
Parker

7-31-24 FOR CONSTRUCTION

1

2

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10

SECTION 07 2400

EXTERIOR INSULATION AND FINISH SYSTEMS

PART 1 GENERAL

1.01QUALITY ASSURANCE

A. EIFS Manufacturer Qualifications: Provide EIFS products other than insulation from the same manufacturer with qualifications as follows:

1. Manufacturer of EIFS products for not less than 5 years.

1.02FIELD CONDITIONS

A. Do not prepare materials or apply EIFS under conditions other than those described in the manufacturer's written instructions.

B. Do not prepare materials or apply EIFS during inclement weather unless areas of installation are protected. Protect installed EIFS areas from inclement weather until dry.

1.03WARRANTY

A. Provide manufacturer's standard material warranty, covering a period of not less than 5 years.

PART 2 PRODUCTS

2.01 EXTERIOR INSULATION AND FINISH SYSTEM

A. Exterior Insulation and Finish System: DRAINAGE type; reinforced finish coating on flat-backed insulation board adhesive-applied directly to water-resistive coating over substrate; provide a complete system that has been tested to show compliance with the following characteristics; Include all components of specified system and substrate(s) in tested samples.

B. Fire Characteristics:

1. Flammability: Pass, when tested in accordance with NFPA 285.

2. Ignitibility: No sustained flaming when tested in accordance with NFPA 268.

2.02 MATERIALS

A. Finish Coating Top Coat: Water-based, air curing, acrylic or polymer-based finish with integral color and texture.

1. Texture: Sto Corp; Polymer-Enhanced Acrylic Stolt; 1.0 Fine: www.stocorp.com/#file.

2. Color: As indicated on drawings.

B. Base Coat: Fiber-reinforced, acrylic or polymer-based product compatible with insulation board and reinforcing mesh, Class FIB.

C. Reinforcing Mesh: Balanced, open weave glass fiber fabric, treated for compatibility and improved bond with coating, weight, strength, and number of layers as required to meet required system impact rating.

D. Extruded Polystyrene (XPS) Board Insulation: Complies with ASTM C578, with natural skin surfaces.

1. Board Size: 24 by 48 inch.

2. Board Size Tolerance: 1/16 inch from square and dimension.

3. Board Thickness: 1-1/2 Inches.

4. Board Edges: Square.

5. Type and Board Density: Type X, 1.30 pcf (21 kg/cu m), minimum.

6. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/450, when tested in accordance with ASTM E84.

E. Drainage Mat for Exterior Sliding: Drainage layer with geotextile filter fabric applied over water-resistive barrier on sidewall sheathing.

1. Composition: Three-dimensional polymer matrix with fabric facing that faces to exterior of building.

2. Thickness: As indicated on drawings.

F. Water-Resistive Barrier Coatings: Fluid-applied air and water barrier membrane; applied to sheathing; furnished or approved by EIFS manufacturer.

G. Flashing Tape: Self-adhering rubberized asphalt tape with polyethylene backing or other material and surface conditioner furnished or approved by EIFS manufacturer.

2.03 ACCESSORIES

A. Insulation Adhesive: Type required by EIFS manufacturer for project substrate.

B. Trim: EIFS manufacturer's standard PVC or galvanized steel trim accessories, as required for a complete project and including starter track and drainage accessories.

C. Sealant Materials: Compatible with EIFS materials and as recommended by EIFS manufacturer.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Install in accordance with EIFS manufacturer's instructions and ASTM C1397.

3.02 INSTALLATION - WATER-RESISTIVE BARRIER

A. Apply barrier coating as recommended by coating manufacturer; prime substrate as required before application.

3.03 INSTALLATION - INSULATION

A. Install in accordance with manufacturer's instructions.

B. Place boards in a method to maximize tight joints. Stagger vertical joints and interlock at corners. Butt edges and ends tight to adjacent board and to protrusions. Achieve a continuous flush insulation surface, with no gaps in excess of 1/16 inch.

C. Fill gaps greater than 1/16 inch with strips or shims cut from the same insulation material.

END OF SECTION 07 2400

SECTION 09 3000

TILE

PART 1 GENERAL

1.01FIELD CONDITIONS

A. Do not install solvent-based products in an unventilated environment.

B. Maintain ambient and substrate temperature above 50 degrees F and below 100 degrees F during installation and curing of setting materials.

PART 2 PRODUCTS

2.01 TILE

A. Manufacturers: per the finish schedule on the drawings..

1. Substitutions: See Section 01 6000 - Product Requirements.

B. Glazed Wall Tile: ANSI A137.1, standard grade.

a. Size: Per drawings and finish schedule inch

1. Surface Finish: as scheduled.

2. Color(s): As scheduled.

3. Pattern: per plans and elevations.

2.02 TRIM AND ACCESSORIES

A. Ceramic Accessories: Glazed finish, same color and finish as adjacent field tile; same manufacturer as tile.

B. Ceramic Trim: Matching bullnose, double bullnose, cove base, and cove ceramic shapes in sizes coordinated with field tile.

2.03 SETTING MATERIALS

A. Provide setting and grout materials from same manufacturer.

B. Latex-Portland Cement Mortar Bond Coat: ANSI A118.4.

1. Applications: Use this type of bond coat where Large and Heavy Tile (LHT) mortar is indicated.

C. Mortar Bed Materials: Pre-packaged mix of Portland cement, sand, latex additive, and water.

2.04 GROUTS

A. Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.

1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.

2. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.

2.05 MAINTENANCE MATERIALS

A. Tile Sealant: Gunnable, silicone, siliconized acrylic, or urethane sealant; moisture and mildew resistant type.

1. Applications: Between tile and plumbing fixtures.

B. Grout Sealer: Liquid-applied, moisture and stain protection for existing or new Portland cement grout.

1. Composition: Water-based colorless silicone.

2.06 ACCESSORY MATERIALS

A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing.

1. Crack Resistance: No failure at 1/8 inch gap, minimum.

2. Peel-and-Stick Sheet Type:

a. Material: Rubberized membrane laminated to reinforcing fabric.

3. Thickness: 20 mils, maximum.

4. Crack Resistance: No failure at 1/16 inch gap, minimum.

B. Backer Board: Cementitious type complying with ANSI A118.9; high density, glass fiber reinforced, 5/8 inch thick; 2 inch wide coated glass fiber tape for joints and corners.

PART 3 EXECUTION

2.01 INSTALLATION - GENERAL

A. Install tile and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.19 , manufacturer's instructions, and TCNA (HB) recommendations.

B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.

2.02 INSTALLATION - FLOORS - MORTAR BED METHODS

A. Over inter for concrete substrates, install in accordance with TCNA (HB) Method F111, with cleavage membrane, unless otherwise indicated.

2.03 INSTALLATION - WALL TILE

Over cementitious backer units install in accordance with TCNA (HB) Method W223, organic adhesive.

END OF SECTION 09 3000

SECTION 09 9000

PAINTING AND COATING - COMMERCIAL GUIDE SPEC - PPG

PART 1 GENERAL

1.01QUALITY ASSURANCE

A. Installer Qualifications: A firm or individual experienced in applying paints and coatings similar in material, design, and extent to those indicated for this project, whose work has resulted in applications with a record of successful in-service performance.

B. Obtain block fillers and primers for each coating system from the same manufacturer as the finish coats.

PART 2 PRODUCTS

2.01 PAINT MATERIALS - GENERAL

A. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

B. VOC Classification: Provide high-performance coating materials, including primers, undercoats, and finish-coat materials, that meet the applicable local, state, or federal VOC requirements.

2.02 COMMERCIAL FACILITY INTERIOR PAINT SYSTEMS

A. Restaurants/Restrooms/Corridors - Gypsum Board Walls:

1. Acrylic Pre-Catalyzed Epoxy Finish: Two finish coats over a primer.

B. Restaurants/Restrooms/Corridors - Gypsum Board Ceilings:

1. Acrylic Finish: Two finish coats over a primer.

2.03 COMMERCIAL FACILITY EXTERIOR PAINT SYSTEMS

A. Plaster, Stucco, and EIFS Surfaces:

1. Acrylic Finish: Two finish coats over a primer.

B. Ferrous and Non-Ferrous Metals:

1. Acrylic Finish: Two finish coats over a rust-inhibitive primer.

PART 3 EXECUTION

3.01 PREPARATION

A. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each substrate condition and as specified.

3.02 APPLICATION

A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.

B. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.

1. The number of coats and film thickness required is the same regardless of application method.

2. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements.

END OF SECTION 09 9000

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JOB: #23-052

DRAWN BY: JCC

CHECKED BY: JCC

ENGINEER

JEFFREY C. CHACON

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STATE OF COLORADO

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Sheet Title:

SPECIFICATIONS

Sheet No. :

A601

Gunther Toody's
Parker

7-31-24 FOR CONSTRUCTION



FOOD SERVICE EQUIPMENT UTILITY SCHEDULE

FOODSERVICE EQUIPMENT SCHEDULE										FOODSERVICE EQUIPMENT ELECTRICAL REQUIREMENTS			FOODSERVICE EQUIPMENT PLUMBING REQUIREMENTS			
ITEM	QUANTITY	PURCHASE	FABRICATE	BACKING REQ	EXISTING	NIKEC	DESCRIPTION	MAKE	MODEL	REMARKS	TAG	ROUGH-IN	LOAD & CONNECTION	TAG	ROUGH-IN	CONNECTION
1	1	X					WALK-IN FREEZER	COMMERCIAL COOLING	CUSTOM	W/ RAMP & FLOOR	E1	120V 1PH JB (ABOVE FINISH CEILING)	6.0 AMPS (LIGHTS)			
2	1	X					FREEZER EVAPORATOR COIL	COMMERCIAL COOLING	RL6E077		E2	208V 1PH JB + 96"	1.0 AMPS (FAN)/9.8 AMPS (HTR.)	W2	FLOOR SINK	3/4" I.W.
3	1	X					FREEZER REMOTE CONDENSING UNIT	COMMERCIAL COOLING	RF0250L4SEA	* VERIFY LOCATION ON BUILDING ROOF W/ ARCHITECT/G.C. *	E3	208V 3PH FDS (ON ROOF)	26 AMPS (MOPD 30)			
4	5	X					WIRE SHELVEING, WALK-IN FREEZER	OLYMPIC	EPOXY	SIZE & QUANTITY PER PLAN						
5	-						~ SPARE NUMBER ~									
6	-						~ SPARE NUMBER ~									
7	LOT		X				S/S CORNER GUARD	- METAL FAB -	STAINLESS	HEIGHT PER ELEVATION						
8	-						~ SPARE NUMBER ~									
9	-						~ SPARE NUMBER ~									
10	2	X					WIRE SHELVEING W/ DUNNAGE SHELF BASE	METRO	EPOXY	W/ (2) 18"x60" EPOXY SHELVES & (1) 1860DRK3 DUNNAGE SHELF BASE						
11	1	X					WIRE SHELVEING W/ DUNNAGE SHELF BASE	METRO	EPOXY	W/ (2) 18"x48" EPOXY SHELVES & (1) 1848DRK3 DUNNAGE SHELF BASE						
12	7	X					WIRE SHELVEING, [EXISTING WALK-IN COOLER]	OLYMPIC	EPOXY	SIZE & QUANTITY PER PLAN						
13	8	X					WIRE SHELVEING, DRY STORAGE	OLYMPIC	CHROME	SIZE & QUANTITY PER PLAN						
14	2					X	BREAD RACK, MOBILE	(by OWNER)		W/ CASTERS						
15	-						~ SPARE NUMBER ~									
16	1			X		X	SODA BAG N' BOX & RACK	(by VENDOR)		* VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E16	120V 1PH DR + 78"	5.0 AMPS	P16	1/2" C.W. + 72"	1/2" C.W.
17	LOT					X	CARBONATOR	(by VENDOR)		* VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E17	120V 1PH DR + 78"	7.2 AMPS	W16	FLOOR SINK	3/4" I.W.
18	1			X		X	S/S CARBONATOR SHELF, RACK MOUNT	(by VENDOR)		WALL BACKING PROVIDED BY G.C.				P17	1/2" C.W. + 72"	3/8" C.W.
19	LOT					X	BOTTLED GAS	(by VENDOR)		WALL BACKING PROVIDED BY G.C.						
20	1	X		X			REMOTE BEER SYSTEM W/ WALL SHELF	PERLUICK	4404	W/ WALL BRACKET KIT #4408SS; WALL BACKING PROVIDED BY G.C.	E20	120V 1PH JB + 96"	15.1 AMPS			
21	1	X		X			S/S CHEMICAL SHELF W/ MOP HANGERS	JOHN BOOS	PB-MSS836	WALL BACKING PROVIDED BY G.C.						
22	-						~ SPARE NUMBER ~									
23	-						~ SPARE NUMBER ~									
24	1			X		X	WATER FILTRATION SYSTEM	(by VENDOR) HOSHIZAKI	(by VENDOR) H9320-53	* VERIFY UTILITY REQ. W/ VENDOR * WALL BACKING PROVIDED BY G.C.				P24	1/2" C.W. + 66"	3/8" C.W.
25	1					X	ICE MACHINE, WATER-COOLED	(by VENDOR) HOSHIZAKI	(by VENDOR) KM-1301SWJ	* VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E25	208V 1PH JB + 72"	8.2 AMPS	P25	1/2" C.W. (FROM FILTER #P24)	3/8" C.W. (FILTERED)
26	1					X	ICE MACHINE BIN	(by VENDOR) HOSHIZAKI	(by VENDOR) B-900SF	* VERIFY UTILITY REQUIREMENTS W/ VENDOR *				W25	FLOOR SINK	(1) 3/4" I.W./ (1) 3/8" I.W.
27	-						~ SPARE NUMBER ~							P25A	1/2" C.W. + 66" (CONDENSOR)	3/8" C.W.
28	-						~ SPARE NUMBER ~							W26	FLOOR SINK	3/4" I.W.
29	-						~ SPARE NUMBER ~									
30	1	X		X			S/S HAND SINK W/ SPLASH GUARDS	JOHN BOOS	PBHS-W-1410-SSLR	W/ FISHER FAUCET #1996 & WALL SUPPORT BRACKETS SOAP & PAPER TOWEL BY OTHERS; WALL BACKING PROVIDED BY G.C.			P30	1/2" H.W. & C.W. + 18"	1/2" H.W. & C.W.	
31	LOT					X	WASTE RECEPTACLE, MOBILE	(by OWNER) RUBBERMAID	(by OWNER) FG263200GRAY		W30	1-1/2" WASTE + 21"			1-1/2" W.	
32	2	X		X			S/S WALL SHELF W/ UTENSIL BAR	JOHN BOOS	BHS1224PR	W/ S/S DOUBLE SIDED POT HOOKS; WALL BACKING PROVIDED BY G.C.						
33	1	X		X			S/S WALL SHELF (UPPER)	JOHN BOOS	BHS16108	WALL BACKING PROVIDED BY G.C.						
34	1	X		X			S/S THREE COMPARTMENT SINK	JOHN BOOS	3B18244-2024 (MODIFIED)	W/ FRONT CROSS-RAIL & (3) FISHER ROTARY WASTES #52434			W34	FLOOR SINK	(3) 2" I.W. (NO MANIFOLD)	
35	1	X		X			PRE-RINSE ASSEMBLY W/ ADD-ON FAUCET	FISHER	34479 W/ 14" SPOUT	WALL BACKING PROVIDED BY G.C. * P.C. TO PROVIDE SEPARATE H.W. & C.W. QTR TURN SHUT-OFFS FOR CHEM DISP. *			P35	1/2" H.W. & C.W. + 12"	1/2" H.W. & C.W.	
36	1	X					WIRE SHELVEING, DISH STORAGE, MOBILE	OLYMPIC	EPOXY	W/ CASTERS; SIZE & QUANTITY PER PLAN			P35A	1/2" H.W. & C.W. + 12"	W/ 3/8" QTR TURN SHUT-OFFS	
37	-						~ SPARE NUMBER ~									
38	2	X					DISH DOLLY W/ HANDLE, MOBILE	CAMBRO	CDR2020H151	W/ CASTERS						
39	1	X		X			S/S WALL SHELF W/ UTENSIL BAR	JOHN BOOS	BHS1248PR	W/ S/S DOUBLE SIDED POT HOOKS; WALL BACKING PROVIDED BY G.C.						
40	1	X		X			S/S WALL SHELF (UPPER)	JOHN BOOS	BHS1624	WALL BACKING PROVIDED BY G.C.						
41	1	X		X			S/S CLEAN DISH TABLE	JOHN BOOS	CDT6-S60SBK-R	WALL BACKING PROVIDED BY G.C.						
42	1					X	DISH MACHINE	(by VENDOR) CMA	(by VENDOR) C CORNER UNIT	* VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E42A	120V 1PH JB + 72"	16.0 AMPS	P42	3/4" H.W. + 62" ON 120" RECIRC. LOOP	3/4" H.W. (68 GPH)
43	1			X	X		S/S WALL SHELF	- METAL FAB -	STAINLESS 18"x24"	WALL BACKING PROVIDED BY G.C.	E42B	CONTROL WIRE TO FAN	CONTROL WIRE TO EXHAUST FAN	W42	FLOOR SINK	2" I.W.
44	1	X			X		PRE-RINSE ASSEMBLY	FISHER	13390	WALL BACKING PROVIDED BY G.C. * P.C. TO PROVIDE SEPARATE H.W. QTR TURN SHUT-OFFS FOR CHEM DISP. *				P44	1/2" H.W. & C.W + 18"	1/2" H.W. & C.W.
45	1	X					GARBAGE DISPOSER	SALVAJOR	200-CA-12-ARSS	W/ 6-1/2" SINK MOUNT & ADJUSTABLE LEG	E45	208V 3PH JB + 12"	6.6 AMPS	P44A	1/2" H.W. + 18"	W/ 3/8" QTR TURN SHUT-OFFS
46	1		X	X			S/S SOILED DISH TABLE W/ ICE BURN SINK	- METAL FAB -	STAINLESS	W/ BUILT-IN ICE BURN, QUICK DRAIN; W/ DISH RACK STRINGERS & SCRAP BASKET WALL BACKING PROVIDED BY G.C.				P45	1/2" C.W. + 12"	1/2" C.W.
47	1		X				S/S DOUBLE RACKING SHELF	- METAL FAB -	STAINLESS	MOUNT TO SOILED DISH TABLE ITEM #46				W45	2" WASTE + 21"	2" W.
48	-						~ SPARE NUMBER ~							P46	1/2" H.W. + 18"	1/2" H.W.
49	-						~ SPARE NUMBER ~							W46	FLOOR SINK	(2) 2" I.W./ (1) 1" I.W.
50	2	X		X			S/S HAND SINK W/ SPLASH GUARDS	JOHN BOOS	PBHS-W-1410-SSLR	W/ FISHER FAUCET #1996 & WALL SUPPORT BRACKETS SOAP & PAPER TOWEL BY OTHERS; WALL BACKING PROVIDED BY G.C.			P50	1/2" H.W. & C.W. + 18"	1/2" H.W. & C.W.	
51	2					X	BUN PAN RACK, MOBILE	(by OWNER)		W/ CASTERS				W50	1-1/2" WASTE + 21"	1-1/2" W.
52	LOT					X	WASTE RECEPTACLE, SLIM TALL	(by OWNER) RUBBERMAID	FG354060BLA							
53	2	X					REACH-IN FREEZER	TURBO AIR	M3F24-1-N	W/ CASTERS; DOOR HINGED PER PLAN	E53	120V 1PH SR + 84"	4.4 AMPS			

GENERAL NOTES:

- THESE PLANS ARE PROVIDED FOR THE PURPOSE OF INDICATING FOODSERVICE EQUIPMENT LOCATIONS AND REQUIREMENTS ONLY AND ARE NOT TO BE CONSTRUED BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR AS TO RELIEVE THEM FROM THEIR RESPONSIBILITY OF COMPLYING WITH ALL APPLICABLE CODES. REFER TO ARCHITECTURAL DRAWINGS, MECHANICAL, AND ELECTRICAL DRAWINGS FOR BALANCE OF WORK NOT IN KITCHEN EQUIPMENT CONTRACT.
- IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR HIS ASSIGNED COORDINATOR TO INSURE THAT THE FOODSERVICE EQUIPMENT CONTRACTOR RECEIVES COPIES OF ALL ADDENDUM AND CHANGES TO ARCHITECTURAL DOCUMENTS WHICH ARE MADE PRIOR TO AND DURING CONSTRUCTION.
- GENERAL CONTRACTOR SHALL PROVIDE THE NECESSARY WALL BACKING FOR ALL WALL MOUNTED EQUIPMENT (SHELVEING, POT RACKS, ETC.), AS INDICATED ON FOODSERVICE EQUIPMENT DRAWING.
- WHERE REQUIRED BY LOCAL CODES, FLOORS SHALL BE

SLOPED TO FLOOR DRAINS TO COMPLY WITH SAID CODES.

- PLUMBING, ELECTRICAL, MECHANICAL, AND THE WORK OF ALL OTHER TRADES INVOLVED SHALL CONFORM TO PRESENT DAY CODES.
- ALL EQUIPMENT TO BE N.S.F. APPROVED OR EQUIVALENT.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AND COORDINATE WITH THE FOODSERVICE EQUIPMENT CONTRACTOR ANY DISCREPANCY OR OMISSION INCLUDING, BUT NOT LIMITED TO DIMENSIONAL LAYOUT ON THESE PLANS PRIOR TO START OF CONSTRUCTION. ALL TRANSACTIONS SHALL BE IN WRITING.
- FLOOR DEPRESSIONS & INSULATED FLOORS FOR WALK-IN ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR AND AS DETAILED.
- GENERAL CONTRACTOR TO PROVIDE FINISHED CURBS FOR WALK-IN REFRIGERATOR/FREEZER COMPRESSOR/CONDENSOR UNITS (VERIFY LOCATIONS). SLEEVES SHOULD BE PROVIDED THROUGH CURBS AND FINISHED BUILDING ROOF FOR REFRIGERATION LINE SETS. SLEEVES AND PENETRATIONS THROUGH ROOF OR BUILDING

WALLS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR. CONSULT WITH ARIZONA RESTAURANT SUPPLY, INC. FOR DIAMETER SIZE SLEEVE(S) REQUIRED. PENETRATIONS THROUGH FIRE RATED WALLS AND FIRE RATED CAULKING SEAL SHALL BE BY THE GENERAL CONTRACTOR.

HEALTH DEPARTMENT NOTES:

- FOOD PREPARATION, DISHWASHING, STORAGE, AND RESTROOM AREAS TO HAVE:
A) DURABLE, EASILY CLEANABLE, AND PROPER COVED BASE FLOORS.
B) SMOOTH, NON-ABSORBENT, AND EASILY CLEANABLE LIGHT-COLORED WALLS AND CEILING.
- ICE MACHINE BINS, CONDENSATE LINES, FOOD PREPARATION SINKS, DISHWASHERS, AND WATER/BEVERAGE DISPENSING SYSTEMS SHALL DRAIN INDIRECTLY INTO A FLOOR SINK.

- OPERATOR TO OBTAIN FOOD CERTIFICATE PRIOR TO OPENING.
- A HAND WASHING SINK SHALL BE PROVIDED IN THE FOOD PREPARATION AREA.
- ALL FOOD EQUIPMENT, INCLUDING CUSTOM SINKS AND WORKTABLES, SHALL MEET THE APPROVED ANSI/NSF (AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION) STANDARD FOR ITS CLASS.
- FLOOR MODEL EQUIPMENT SHALL BE MOUNTED ON A MINIMUM OF SIX INCH LEGS, CASTERS, OR BE SEALED TO AN ELEVATED FOUR INCH HIGH CURB WITH A FOUR INCH HIGH COVE BASE.
- 7.ENTIRE FACILITY TO BE IN CURRENT COMPLIANCE WITH ALL COUNTY HEALTH CODES.

Issued for construction 7.31.24

REVISIONS:

07/28/22 HEALTH REVISION

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FOR REFERENCE ONLY

GUNTHER TOODY'S
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PARKER, CO 80134

SHEET NAME:
EQUIPMENT SCHEDULE

Issued for construction 7.31.24
SCALE:
NA
DRAWN BY:
SRB
PROJECT NO.

SHEET NO.
FS 2.0

7-31-24 FOR CONSTRUCTION

FOOD SERVICE EQUIPMENT UTILITY SCHEDULE

FOODSERVICE EQUIPMENT SCHEDULE										FOODSERVICE EQUIPMENT ELECTRICAL REQUIREMENTS			FOODSERVICE EQUIPMENT PLUMBING REQUIREMENTS			
ITEM	QUANTITY	PURCHASE	FABRICATE	BACKING REQ	EXISTING	NIKEC	DESCRIPTION	MAKE	MODEL	REMARKS	TAG	ROUGH-IN	LOAD & CONNECTION	TAG	ROUGH-IN	CONNECTION
54	-						~ SPARE NUMBER ~									
55	1	X		X			S/S PREP TABLE	JOHN BOOS	ST6R5-3060SSK	WALL BACKING PROVIDED BY G.C.						
56	1	X		X			S/S TABLE MOUNTED SHELF	JOHN BOOS	X-0460A	5'-0", CANTILEVERED W/ UPRIGHTS THROUGH BACKSPLASH OF ITEM #55						
57	1	X					MICROWAVE OVEN	ACP	RC17S2		E57	208V 1PH SR + 50"	13.8 AMPS (NEMA 6-20)			
58	2					X	KDS DISPLAY MONITOR	(by OWNER)		* VERIFY UTILITY/DATA REQUIREMENTS W/ OWNER *	E58	120V 1PH DR/DATA (PER PLAN)	20 AMP DEDICATED CIRCUIT			
59	1	X					REFRIGERATED PREP UNIT	TURBO AIR	TST-72SD-30-N	W/ CASTERS; DOORS HINGED PER PLAN	E59	120V 1PH SR + 21"	9.9 AMPS			
60	1	X		X			S/S TABLE MOUNTED SHELF	TURBO AIR	TSOS-6	MOUNT TO ITEM #59						
61	1					X	WAFFLE BAKER	(by VENDOR)		* VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E61	120V 1PH DR + 50"	10.0 AMPS			
62	1	X		X			S/S PREP TABLE W/ BREAD RACK SLIDES	JOHN BOOS	ST6R5-3030SBK (MODIFIED)	W/ PAN RACK #BUNPR; WALL BACKING PROVIDED BY G.C.						
63	1	X					CONVEYOR TOASTER	HATCO	TQ-10		E63	208V 1PH SR + 50"	8.8 AMPS (NEMA 6-15)			
64	1	X		X			S/S PREP TABLE	JOHN BOOS	ST6R5-3048SSK	WALL BACKING PROVIDED BY G.C.						
65	1	X		X			S/S TABLE MOUNTED SHELF	JOHN BOOS	X-0460A	4'-0", CANTILEVERED W/ UPRIGHTS THROUGH BACKSPLASH OF ITEM #55						
66	1	X		X			S/S PREP TABLE	JOHN BOOS	ST6R5-3024SSK	WALL BACKING PROVIDED BY G.C.						
67	-						~ SPARE NUMBER ~									
68	2	X					MICROWAVE OVEN, STACKED	ACP	RC17S2		E68	208V 1PH SR + 50"	13.8 AMPS (NEMA 6-20)			
69	1	X					S/S ISLAND PREP TABLE, MOBILE	JOHN BOOS	ST6-3048SSK	W/ CASTERS						
70	1	X					COUNTERTOP FOOD SLICER	BIZERBA	GSP V 2-150		E70	120V 1PH DR + 50"	3.3 AMPS			
71	1	X					S/S SLICER STAND, MOBILE	JOHN BOOS	EES8-3024SSK	W/ CASTERS						
72	-						~ SPARE NUMBER ~									
73	1	X		X			S/S PREP TABLE	JOHN BOOS	ST6R5-3072SSK	W/ RIGHT SIDE SPLASH; WALL BACKING PROVIDED BY G.C.	E73	(2) 120V 1PH DCO + 50"	(2) 20 AMP CONVENIENCE OUTLET			
74	1	X		X			S/S WALL SHELF	JOHN BOOS	BHS1236	WALL BACKING PROVIDED BY G.C.						
75	1	X		X			S/S WALL SHELF W/ UTENSIL BAR	JOHN BOOS	BHS1236PR	W/ S/S DOUBLE SIDED POT HOOKS; WALL BACKING PROVIDED BY G.C.						
76	1	X		X			S/S WALL SHELF (UPPER)	JOHN BOOS	BHS1672	WALL BACKING PROVIDED BY G.C.						
77	-						~ SPARE NUMBER ~									
78	-						~ SPARE NUMBER ~									
79	1	X					COUNTERTOP MIXER, 6 QT.	HOBART	N50-60		E79	120V 1PH DR + 50"	2.9 AMPS			
80	3	X					INGREDIENT BIN, MOBILE	CAMBRO	IBS20148	W/ CASTERS						
81	1	X		X			S/S PREP TABLE W/ OPEN BASE	JOHN BOOS	ST6R5-3660SBK	WALL BACKING PROVIDED BY G.C.	E81	120V 1PH DCO + 50"	20 AMP CONVENIENCE OUTLET			
82	1	X		X			S/S WALL SHELF W/ UTENSIL BAR	JOHN BOOS	BHS1248PR	W/ S/S DOUBLE SIDED POT HOOKS; WALL BACKING PROVIDED BY G.C.						
83	1	X		X			S/S WALL SHELF (UPPER)	JOHN BOOS	BHS1648	WALL BACKING PROVIDED BY G.C.						
84	-						~ SPARE NUMBER ~									
85	1	X		X			12" 2 BURNER HOTPLATE, GAS	JADE	JHP-212	W/ 48" Q.D. DOUBLE SWIVEL GAS HOSE; WALL BACKING BY G.C.				G85	3/4" GAS + 18"	3/4" G. 55,000 B.T.U.
86	1	X		X			DOUBLE CONVECTION OVEN, GAS	BLODGETT	ZEPH-100-G-ES DBL	W/ CASTERS & (2) 48" Q.D. DOUBLE SWIVEL GAS HOSE; WALL BACKING BY G.C.	E86	(2) 120V 1PH SR + 21"/50"	(2) 8.0 AMPS	G86	(2) 3/4" GAS + 18"	(2) 3/4" G. 45,000 BTU'S EACH
87	1	X		X			36" COUNTERTOP GRIDDLE, GAS	JADE	JGT-2436	W/ 6" PLATE SHELF & 48" Q.D. DOUBLE SWIVEL GAS HOSE; WALL BACKING BY G.C.				G87	3/4" GAS + 18"	3/4" GAS 90,000 BTU'S
88	1	X					52" REFRIGERATED CHEF BASE	TURBO AIR	TCBE-52SDR-N	W/ LOW PROFILE CASTERS	E88	120V 1PH SR + 21"	5.1 AMPS			
89	1	X		X			60" COUNTERTOP GRIDDLE, GAS	JADE	JGT-2460	W/ 6" PLATE SHELF & 48" Q.D. DOUBLE SWIVEL GAS HOSE; WALL BACKING BY G.C.				G89	3/4" GAS + 18"	3/4" GAS 150,000 BTU'S
90	1	X		X			48" COUNTERTOP GRIDDLE, GAS	JADE	JGT-2448	W/ 6" PLATE SHELF & 48" Q.D. DOUBLE SWIVEL GAS HOSE; WALL BACKING BY G.C.				G90	3/4" GAS + 18"	3/4" GAS 120,000 BTU'S
91	2	X					72" REFRIGERATED CHEF BASE	TURBO AIR	TCBE-72SDR-E-N	W/ LOW PROFILE CASTERS	E91	120V 1PH SR + 21"	5.6 AMPS			
92	1	X		X			FRYER BATTERY (2) W/ FILTER, GAS	IMPERIAL	IFSSP250	W/ 48" Q.D. DOUBLE SWIVEL GAS HOSE & CASTERS; WALL BACKING BY G.C.	E92	120V 1PH DR + 21"	6.8 AMPS	G92	3/4" GAS + 18"	3/4" G. 280,000 BTU'S
93	1	X		X			FRYER BATTERY (3) W/ FILTER & DUMP, GAS	IMPERIAL	IFSSP350-LH	W/ 48" Q.D. DOUBLE SWIVEL GAS HOSE & CASTERS; WALL BACKING BY G.C.	E93	120V 1PH DR + 21"	6.8 AMPS	G93	1-1/4" GAS + 18"	1-1/4" G. 420,000 BTU'S
94	2		X				S/S BATTER STATION STAND	- METAL FAB -	STAINLESS	SIZE PER PLAN						
95	-						~ SPARE NUMBER ~									
96	-						~ SPARE NUMBER ~									
97	-						~ SPARE NUMBER ~									
98	-						~ SPARE NUMBER ~									
99	-						~ SPARE NUMBER ~									
100	1	X		X			S/S WALL SHELF	JOHN BOOS	BHS1272	WALL BACKING PROVIDED BY G.C.						
101	1	X		X			S/S WALL SHELF (UPPER)	JOHN BOOS	BHS1672	WALL BACKING PROVIDED BY G.C.						
102	1	X		X			S/S EXPO TABLE W/ MID-SHELF	JOHN BOOS	ST6R5-30132SSK (MODIFIED)	W/ MID-SHELF & LEFT SIDE SPLASH; WALL BACKING PROVIDED BY G.C.	E102	(3) 120V 1PH DCO (PER PLAN)	(3) 20 AMP CONVENIENCE OUTLET			
103	1		X				S/S PASS THRU SHELF W/ TRIM	- METAL FAB -	STAINLESS							
104	2	X					INFRARED HEAT STRIP	HATCO	GRA-60D3	W/ REMOTE INFINITE CONTROL * FIELD VERIFY LOCATION *	E104	208V (120) 1PH JB + 66" W/ NEUTRAL	10.1 AMPS (REQUIRES NEUTRAL)			
105	1	X		X			S/S EXPO TABLE W/ HOTWELLS	JOHN BOOS	ST6R5-3084SSK (MODIFIED)	W/ CONTROL PANEL APRON; WALL BACKING PROVIDED BY G.C.						
106	1	X					DROP-IN HOTWELL (5)	ALTO-SHAAM	500-HWI/D6		E106	208V 1PH SR + 21"	12.5 AMPS (NEMA 6-15)			
107	2					X	KDS DISPLAY MONITOR	(by OWNER)		* VERIFY UTILITY/DATA REQUIREMENTS W/ OWNER *	E107	120V 1PH DR/DATA (PER PLAN)	20 AMP DEDICATED CIRCUIT			
108	1					X	IMPACT PRINTER	(by OWNER)		* VERIFY UTILITY/DATA REQUIREMENTS W/ OWNER *	E108	120V 1PH DR/DATA (PER PLAN)	20 AMP DEDICATED CIRCUIT			
109	1	X		X			S/S EXPO TABLE W/ MID-SHELF	JOHN BOOS	ST6R5-3060SSK (MODIFIED)	W/ MID-SHELF & RIGHT SIDE SPLASH; WALL BACKING PROVIDED BY G.C.	E109	120V 1PH DCO + 44" (HORIZONTAL)	(2) 20 AMP CONVENIENCE OUTLET			
110	-						~ SPARE NUMBER ~									
111	-						~ SPARE NUMBER ~									
112	-						~ SPARE NUMBER ~									
113	-						~ SPARE NUMBER ~									
114	2		X	X			S/S SODA BUNDLE COVER	- METAL FAB -	STAINLESS	TO COVER BEER LINES DOWN FROM ABOVE						
115	2					VND	DROP-IN SODA/ICE DISPENSER/BIN W/ STAND	(by VENDOR)		W/ STAND * VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E115	120V 1PH DR + 12"	5.0 AMPS	P115	1/2" C.W. (FROM SODA LINE BUNDLE)	3/8" F C.W. (FILTERED)
														W115	FLOOR SINK	3/4" I.W.
116	2	X		X			S/S WALL SHELF	JOHN BOOS	BHS1224	WALL BACKING PROVIDED BY G.C.						
117	1	X		X			S/S WALL SHELF (UPPER)	JOHN BOOS	BHS1684	WALL BACKING PROVIDED BY G.C.						
118	1	X		X			S/S BEVERAGE TABLE W/ HAND SINK/MID-SHELF	JOHN BOOS	ST6R5-3084SBK (MODIFIED)	W/ UNDERSHELF & MID-SHELF, DROP-IN HANDSINK #PB-DISINK101410-SSLR & FISHER FAUCET #3525 SOAP & PAPER TOWEL BY OTHERS; WALL BACKING PROVIDED BY G.C.	E118	120V 1PH DCO + 50"	20 AMP CONVENIENCE OUTLET	P118	1/2" H.W. & C.W. + 18"	1/2" H.W. & C.W.
														W118	1-1/2" WASTE + 21"	1-1/2" W.
119	LOT					X	COFFEE / TEA DISPENSER	(by VENDOR) CURTIS	TCN							
120	2					X	COFFEE POT WARMER	CURTIS	AW-2S-10	* VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E120	120V 1PH DR + 50"	1.47 AMPS			
121	1	X		X			S/S MICROWAVE SHELF	JOHN BOOS	BMS2024	WALL BACKING PROVIDED BY G.C.						
122	1	X					MICROWAVE OVEN	ACP	RFS12TS		E122	120V 1PH SR + 60"	16.0 AMPS			
123	3	X					DISH DOLLY, MOBILE	CAMBRO	CDR2020151	W/ CASTERS						
124	-						~ SPARE NUMBER ~									
125	1	X					REACH-IN REFRIGERATOR	TURBO AIR	M3R24-1-N	W/ CASTERS; DOOR HINGED PER PLAN	E125	120V 1PH SR + 84"	2.5 AMPS			
126	1	X		X			S/S BEVERAGE TABLE W/ MID-SHELF	JOHN BOOS	ST6R5-30120SBK (MODIFIED)	W/ UNDERSHELF & MID-SHELF; WALL BACKING PROVIDED BY G.C.	E126	(2) 120V 1PH DCO + 50"	(2) 20 AMP CONVENIENCE OUTLET			
127	2	X		X			S/S WALL SHELF	JOHN BOOS	BHS1224	WALL BACKING PROVIDED BY G.C.						
128	1	X		X			S/S WALL SHELF (UPPER)	JOHN BOOS	BHS1696	WALL BACKING PROVIDED BY G.C.						
129	2					X	POS MONITOR	(by OWNER)		* VERIFY UTILITY/DATA REQUIREMENTS W/ OWNER *	E129	120V 1PH DR/DATA (PER PLAN)	20 AMP DEDICATED CIRCUIT			
130	2					X	POS PRINTER	(by OWNER)		* VERIFY UTILITY/DATA REQUIREMENTS W/ OWNER *	E130	120V 1PH DR/DATA (PER PLAN)	20 AMP DEDICATED CIRCUIT			
131	1					X	COFFEE BREWER, CARAFE POT	(by VENDOR) CURTIS	(by VENDOR) ALP3GT63A000	W/ FILTER BY VENDOR * VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E131	208V (120V) 1PH SR + 50"	15.0 AMPS (REQUIRES NUETRAL)	P131	1/2" C.W. + 48"	1/4" C.W. W/ DBL CK BACKFLOW
132	1					X	CAPPUCCINO MACHINE	(by VENDOR) CURTIS	(by VENDOR) CAPEPC1CS1000	W/ FILTER BY VENDOR * VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E132	120V 1PH SR + 50"	15.0 AMPS	P132	1/2" C.W. + 48"	1/4" C.W. W/ DBL CK BACKFLOW
133	1					X	COFFEE/ TEA BREWER	(by VENDOR) CURTIS	(by VENDOR) CBHT	W/ FILTER BY VENDOR * VERIFY UTILITY REQUIREMENTS W/ VENDOR *	E133	208V (120V) 1PH SR + 50"	34.0 AMPS (REQUIRES NUETRAL)	P133	1/2" C.W. + 48"	1/4" C.W. W/ DBL CK BACKFLOW
134	-						~ SPARE NUMBER ~									

REVISIONS:

07/28/22

HEALTH REVISION

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development services, LLC

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GUNTHER TOODY'S
19502 E PARKER SQUARE DR
PARKER, CO 80134

SHEET NAME:

EQUIPMENT SCHEDULE

Issued for construction 7.31.24

SCALE:
NA

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SRB

PROJECT NO.

SHEET NO.

FS 2.1

FOOD SERVICE EQUIPMENT UTILITY SCHEDULE

FOODSERVICE EQUIPMENT SCHEDULE										FOODSERVICE EQUIPMENT ELECTRICAL			FOODSERVICE EQUIPMENT PLUMBING			
ITEM	QUANTITY	PURCHASE	FABRICATE	BACKING REQ	EXISTING	NIKEC	DESCRIPTION	MAKE	MODEL	REMARKS	REQUIREMENTS			REQUIREMENTS		
											TAG	ROUGH-IN	LOAD & CONNECTION	TAG	ROUGH-IN	CONNECTION
136	1		X	X			S/S CABINET W/ HAND SINK	- METAL FAB -	STAINLESS	W/ LEFT/RIGHT SIDE SPLASHES, GLASS RACK SLIDES, & LOUVERED REMOVABLE PANELS	E136	(2) 120V 1PH DCO + 50"	(2) 20 AMP CONVENIENCE OUTLET	P136	1/2" H.W. & C.W. + 12"	1/2" H.W. & C.W.
										W/ 10" 3-SIDED SPLASH & KROWNE 15-402L FAUCET				W136	FLOOR SINK	1-1/2" I.W.
137	1		X	X			S/S WALL SHELF W/ UPTURNED BRACKETS	- METAL FAB -	STAINLESS-16" DEEP	W/ UPTURNED WALL BRACKETS; WALL BACKING PROVIDED BY G.C.						
138	1		X	X			S/S WALL SHELF (UPPER)	- METAL FAB -	STAINLESS-16" DEEP	WALL BACKING PROVIDED BY G.C.						
139	1	X					REFRIGERATED RAIL	TURBO AIR	CTST-1500-13-N		E139	120V 1PH SR + 54"	2.0 AMPS			
140	2	X					DROP-IN ICE CREAM CABINET	DELFIELD	N227P		E140	120V 1PH SR + 21"	2.9 AMPS			
141	1	X		X			DIPPERWELL, HEATED	SERVER	87740		E141	120V 1PH DR + 50"	3.3 AMPS			
142	1	X					MILK DISPENSER	SILVERKING	SKMAJ1-C4		E142	120V 1PH DR + 50"	1.5 AMPS			
143	1	X					TRIPLE SPINDLE MIXER	HAMILTON BEACH	HMD400		E143	120V 1PH DR + 50"	7.5 AMPS			
144	1	X					BEER TOWER (4) TAPS	PERLUCK	4006-4B							
145	1	X					DRIP TRAY	PERLUCK	5020					W145	FLOOR SINK	1/2" I.W.
146	1		X	X			S/S BEER BUNDLE COVER	- METAL FAB -	STAINLESS	TO COVER BEER LINES DOWN FROM ABOVE						
147	1		X	X			S/S WALL SHELF	- METAL FAB -	STAINLESS-12" DEEP	WALL BACKING PROVIDED BY G.C.						
148	1	X					UNDERCOUNTER REFRIGERATOR	PERLUCK	HB24RS4	W/ ULTRA LOW PROFILE CASTERS; DOOR HINGED PER PLAN	E148	120V 1PH SR + 21"	1.6 AMPS			
149	1	X					LIGHTED LIQUOR DISPLAY	PERLUCK	LMD2-4BR		E149	120V 1PH DR + 66"	1.2 AMPS			
150	4	X					HANGING GLASS RACK	WINCO	GH-10-C							
151	LOT		X				S/S QUILTED WALL FLASHING	- METAL FAB -	STAINLESS	PER ELEVATION						
152	-						~ SPARE NUMBER ~									
153	1	X					COOLER EVAPORATOR COIL	UNITED REFRIGERATION	TPLP317MAS1DR8-ESP		E153	120V 1PH JB + 96"	3.0 AMPS	W153	FLOOR SINK	3/4" I.W.
154	1	X					COOLER REMOTE CONDENSING UNIT	UNITED REFRIGERATION	TEZA015HB-HT3D	* VERIFY LOCATION ON BUILDING ROOF W/ ARCHITECT/G.C. *	E154	208V 3PH FDS (ON ROOF)	10.8 AMPS (MOPD 20)			
155	1				X		[EXISTING] S/S THREE COMPARTMENT SINK	EXISTING		TO REMAIN						
156	1				X		[EXISTING] WALK-IN COOLER	EXISTING		TO REMAIN						
157	1				X		[EXISTING] MOP SINK W/ FAUCET	EXISTING		TO REMAIN						
158	1				X		[EXISTING] EXHAUST HOOD - TYPE I	EXISTING		TO REMAIN						
159	1				X		[EXISTING] S/S WALL FLASHING	EXISTING		TO REMAIN						
160	1				X		[EXISTING/RELOCATE] CONDENSATE HOOD	EXISTING		RELOCATE						

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07/28/22

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GUNTHER TOODY'S
19502 E PARKER SQUARE DR
PARKER, CO 80134

SHEET NAME:

EQUIPMENT
SCHEDULE

Issued for construction 7.31.24

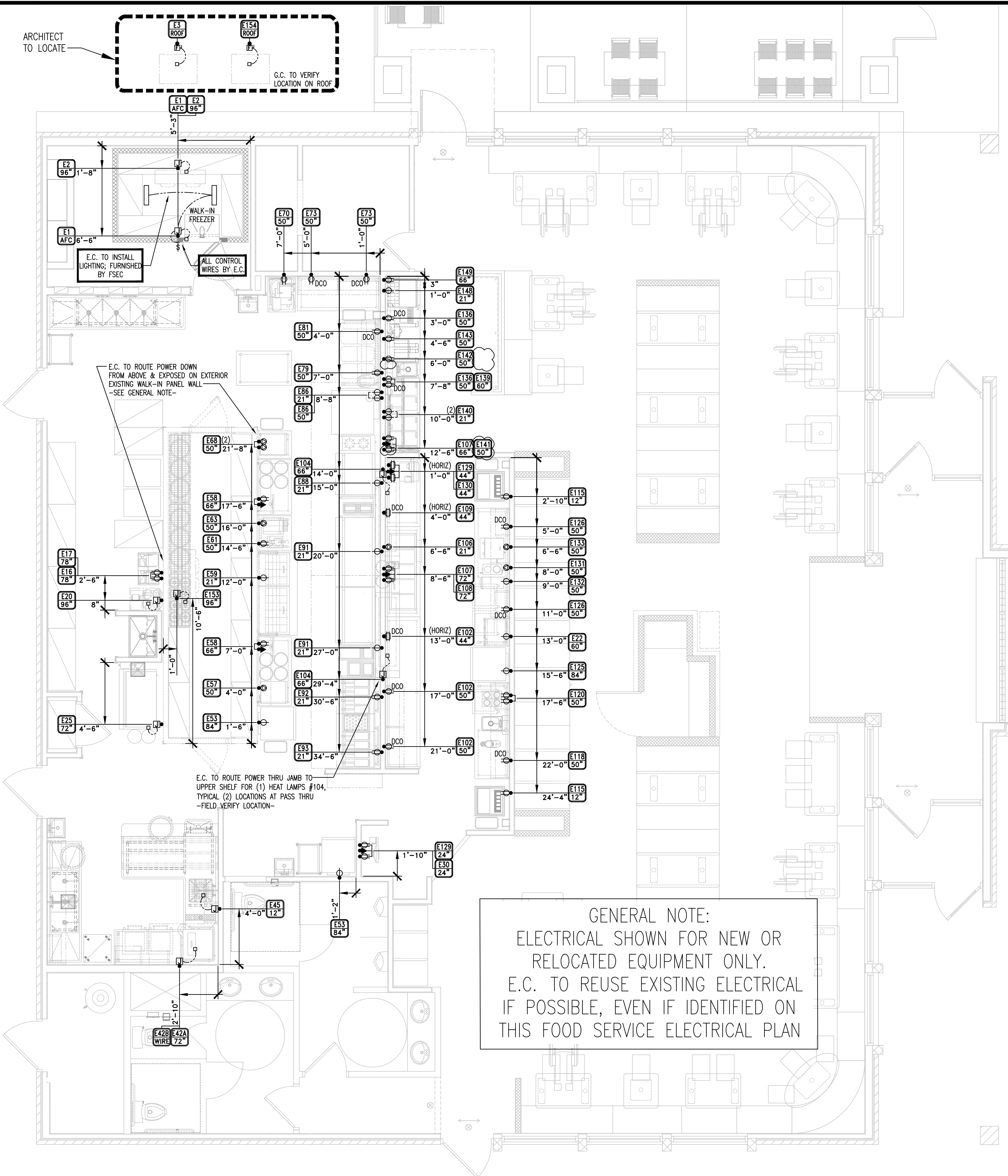
SCALE:
NA

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SRB

PROJECT NO.

SHEET NO.

FS 2.2



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

- ELECTRICAL NOTES:
1. THIS ELECTRICAL PLAN IS INTENDED TO INDICATE ROUGH-IN LOCATIONS FOR KITCHEN EQUIPMENT ONLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
 2. ALL ROUGH-IN LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR PROPER LOCATION.
 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL ROUGH-IN AND FINAL CONNECTIONS OF FOOD SERVICE EQUIPMENT UNLESS OTHERWISE NOTED.
 4. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ROOF MOUNTED JUNCTION BOXES AND OUTLETS AS SHOWN ON ELECTRICAL PLAN. ACTUAL LOCATIONS SHALL BE DETERMINED BY ELECTRICAL CONTRACTOR.
 5. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS TO LIGHTS, BLOWER FANS, COIL DEFROST, AND REMOTE COMPRESSORS TO WALK-IN UNITS, INCLUDING ALL CONTROL WIRING.
 6. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS TO LIGHT, EXHAUST BLOWERS, AND MAKE-UP AIR SYSTEMS TO EXHAUST HOOD. EXHAUST AND MAKE-UP AIR SYSTEMS TO BE INTERCONNECTED AND CONTROLLED BY A SINGLE SWITCH.
 7. TOPS OF ALL ROUGH-INS STUBBED OUT FROM FLOOR ARE NOT TO EXCEED 5" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE ON THIS DRAWING.
 8. ALL CORD AND PLUG REQUIREMENTS WHERE NEEDED, AND IF NOT SUPPLIED BY THE MANUFACTURER, SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR.
 9. ELECTRICAL CONTRACTOR TO PROVIDE FUSED DISCONNECT SWITCH AT ALL REMOTE CONDENSING UNITS AND MOUNT INSIDE WALK-IN BOX FOR BLOWER COIL UNITS.
 10. ELECTRICAL CONTRACTOR TO PROVIDE FUSED DISCONNECT SWITCHES AT ALL EXHAUST BLOWER AND M.U.A. UNITS.
 11. REMOTE CONDENSING UNITS ON BUILDING ROOF ARE TO BE LOCATED ON ARCHITECT'S AND MECHANICAL ENGINEER'S DRAWINGS, HOWEVER: THE RUN OF REFRIGERANT LINES FROM REMOTE CONDENSING UNITS TO CONNECTION POINTS ON EQUIPMENT SHOULD BE HELD TO A MINIMUM TO AVOID INCREASING THE SIZE OF THE CONDENSING UNITS.
 12. ANY CONFLICTS THAT PREVENT ELECTRICAL ROUGH-INS FROM BEING LOCATED AS SHOWN ON THIS DRAWING MUST BE BROUGHT TO THE ATTENTION OF THE KITCHEN EQUIPMENT CONTRACTOR. A RESOLUTION TO THE CONFLICT, IN WRITING, MUST BE MADE PRIOR TO ROUGHING IN SERVICES.
 13. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING, AND INSTALLING ANY SWITCHES, DISCONNECTS, STARTERS, SHUNT TRIP BREAKERS, AS WELL AS, ANY OTHER COMPONENTS OR DEVICES NOT SUPPLIED WITH THE EQUIPMENT WHICH WILL MAKE THE INSTALLATION COMPLETE, OPERATIONAL, AND IN COMPLIANCE WITH ALL APPLICABLE CODES.
 14. ALL DIMENSIONS SHOWN ARE FROM FINISHED WALL SURFACE TO ROUGH-IN CENTER-LINE, AND FROM CENTER-LINE TO CENTER-LINE.
 15. ALL HEIGHTS GIVEN FOR ROUGH-INS ARE FROM FINISHED FLOOR SURFACE TO CENTER-LINE OF ROUGH-IN.
 16. THE ROUGH-IN ELECTRICAL REQUIREMENTS SHOWN ON THIS DRAWING ARE FOR NEW AND RELOCATED EQUIPMENT ONLY. LOCATIONS OF ROUGH-INS ARE CONSIDERED TO BE IDEAL. HOWEVER, EXISTING ELECTRICAL SERVICES IN IMMEDIATE AREA ARE TO BE UTILIZED WHENEVER POSSIBLE. ELECTRICAL CONTRACTOR TO DETERMINE IF EXISTING SERVICES ARE ADEQUATE TO OPERATE EQUIPMENT SHOWN.
 17. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COVER IN THEIR SCOPE OF WORK ALL INFORMATION PROVIDED IN THE SPECIFICATION MANUALS.

ELECTRICAL LEGEND	
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, HORIZONTAL
	DUPLEX RECEPTACLE W/USB, HORIZONTAL
	SINGLE RECEPTACLE
	QUAD RECEPTACLE
	JUNCTION BOX
	SR, 1 PHASE
	SR, 1 PHASE WITH NEUTRAL
	SR, 3 PHASE
	DATA LINE
	FLOOR RECEPTACLE (FLUSH MOUNT)
	SWITCH
	MICROSWITCH
	VAPOR PROOF LIGHT
	DCO (INSTALLED IN EQUIPMENT)
	SINGLE CONVENIENCE OUTLET (INSTALLED IN EQUIPMENT)
	JUNCTION BOX (INSTALLED IN EQUIPMENT)
	DISCONNECT
	FUSE DISCONNECT
	FIRE PULL STATION

7-31-24 FOR CONSTRUCTION

REVISIONS:
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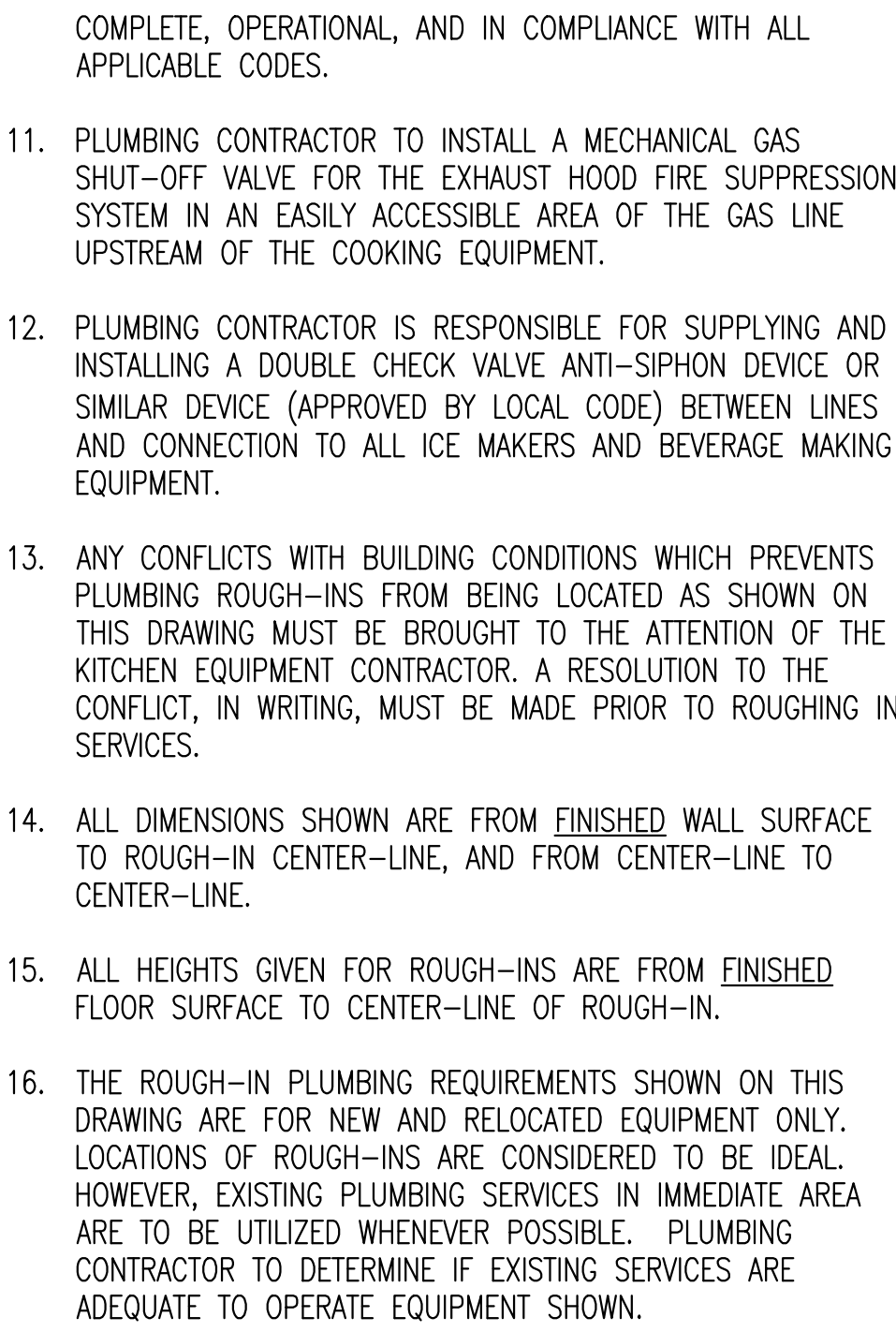
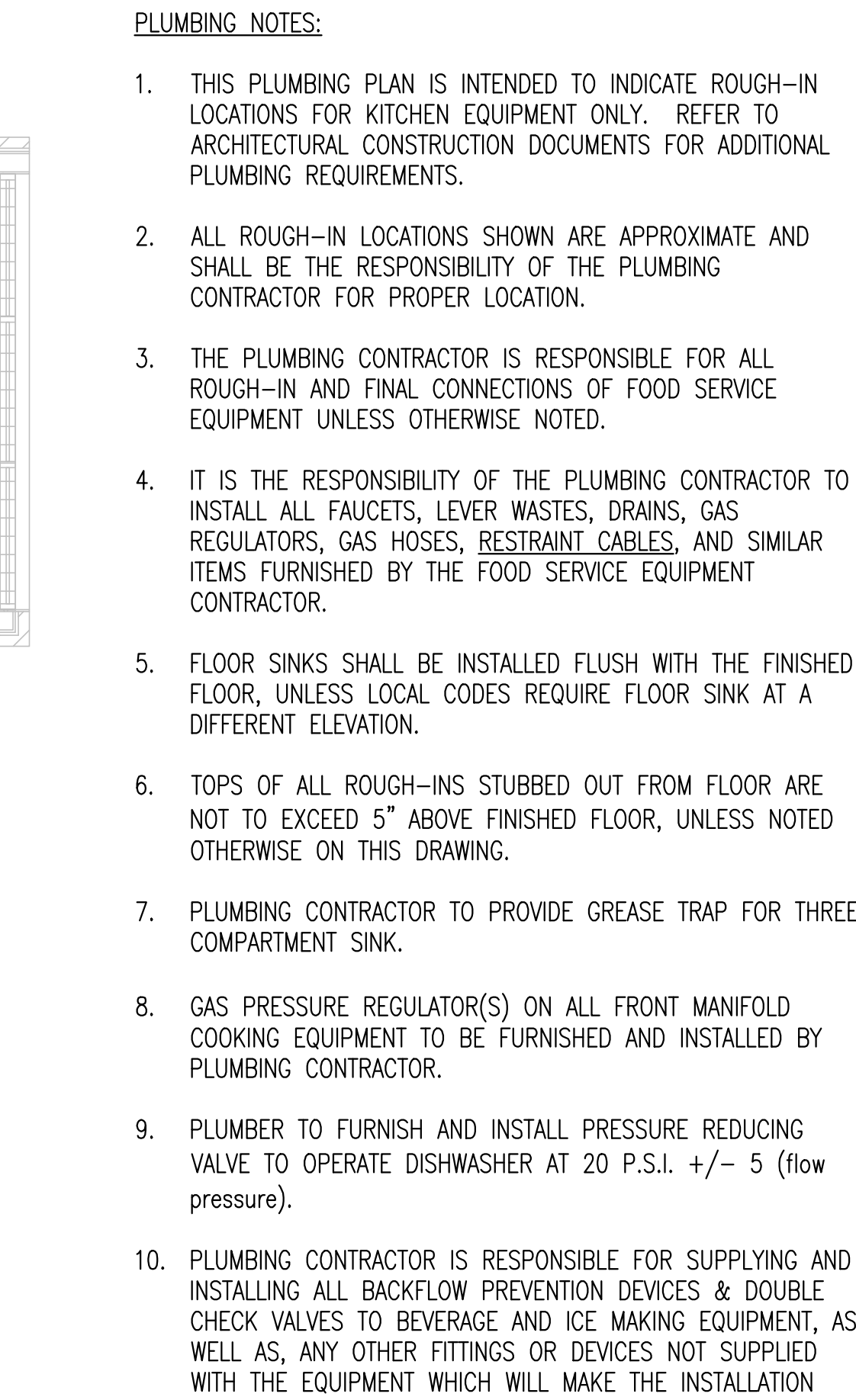
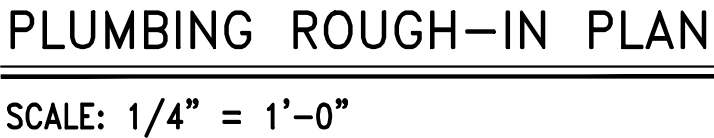
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GUNTHER TOODY'S
19502 E PARKER SQUARE DR
PARKER, CO 80134

SHEET NAME:
ELECTRICAL
ROUGH-IN PLAN

Issued for construction 7.31.24
SCALE:
1/4"=1'-0"
DRAWN BY:
SRB
PROJECT NO.

SHEET NO.
FS 3.0



PLUMBING LEGEND

	HOT WATER AND CONNECTION
	COLD WATER AND CONNECTION
	DIRECT WASTE AND CONNECTION
	INDIRECT WASTE AND RUN TO FLOOR SINK
	FLOOR SINK
	FLOOR SINK WITH HALF GRATE
	FLOOR SINK WITH 3/4 GRATE
	GAS
	GAS CONNECTION

7-31-24 FOR CONSTRUCTION

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07/28/22 **HEALTH**
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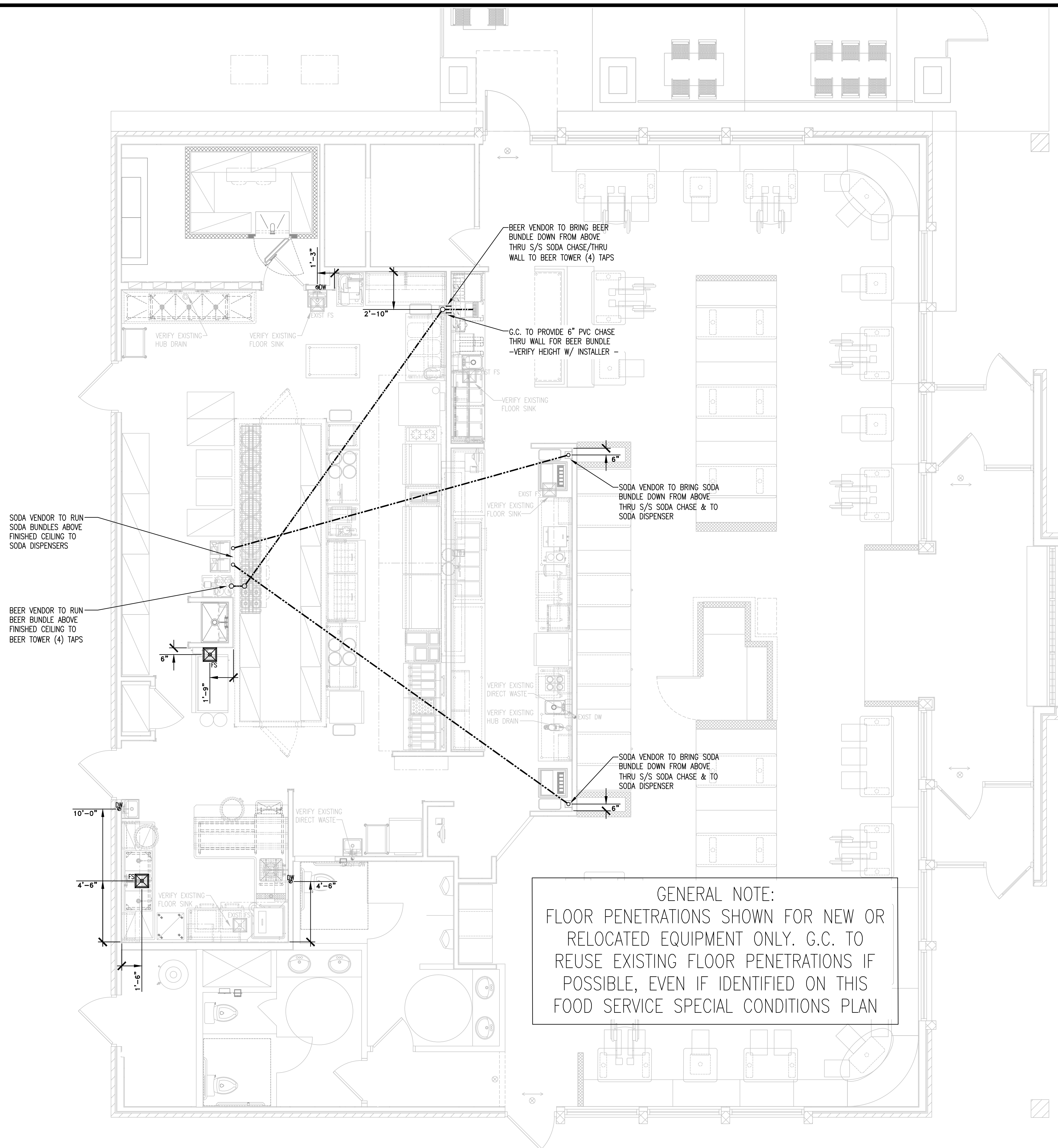
**PLUMBING
ROUGH-IN PLAN**

Issued for construction 7.31.24

SCALE: $1/4" = 1' - 0"$
DRAWN BY: SRB
PROJECT NO.

SHEET NO.

FS 4.0



SPECIAL CONDITIONS PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTE:
FLOOR PENETRATIONS SHOWN FOR NEW OR
RELOCATED EQUIPMENT ONLY. G.C. TO
REUSE EXISTING FLOOR PENETRATIONS IF
POSSIBLE, EVEN IF IDENTIFIED ON THIS
FOOD SERVICE SPECIAL CONDITIONS PLAN

SPECIAL CONDITIONS LEGEND	
	WALL BACKING
	FLOOR SINK
	STUB UP - DIRECT WASTE
	STUB UP - HOT/COLD WATER
	STUB UP - ELECTRICAL CONNECTION
	EXHAUST DUCT COLLAR
	MUA DUCT COLLAR
	FLOOR TROUGH DEPRESSION

7-31-24 FOR CONSTRUCTION

REVISIONS:
07/28/22 **HEALTH**
REVISION

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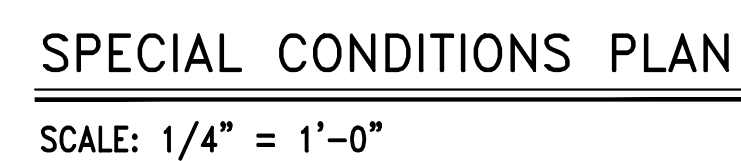
FOR
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GUNTHER TOODY'S
19502 E PARKER SQUARE DR
PARKER, CO 80134

SHEET NAME:
**SPECIAL
CONDITIONS
PLAN**

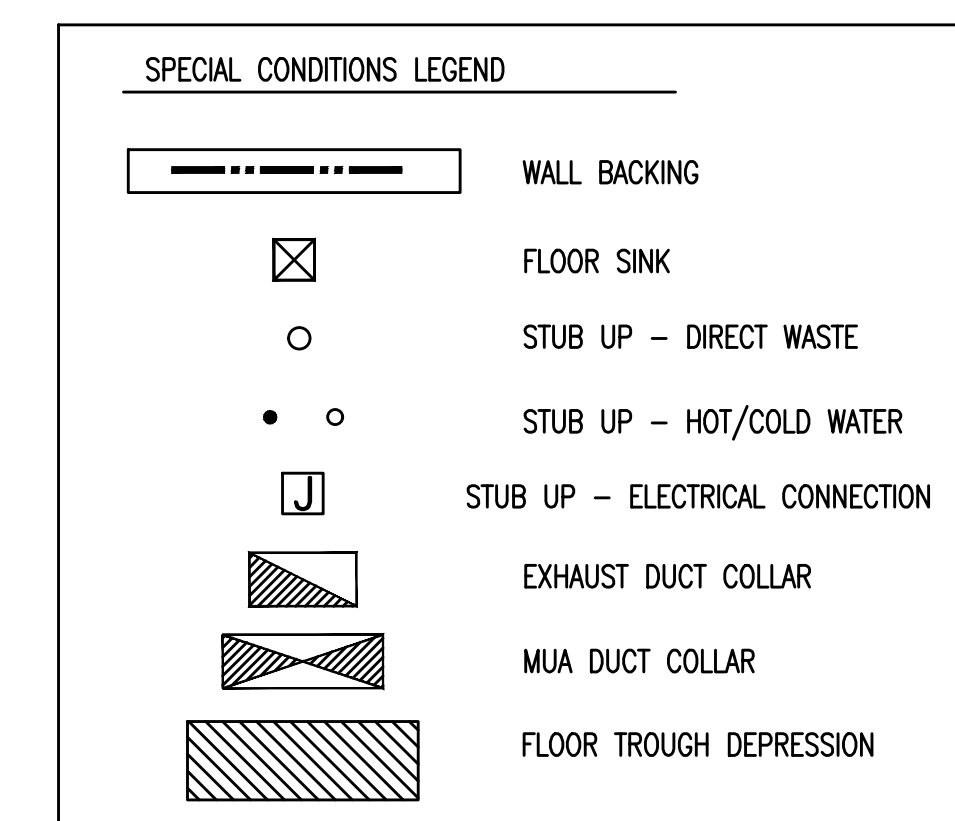
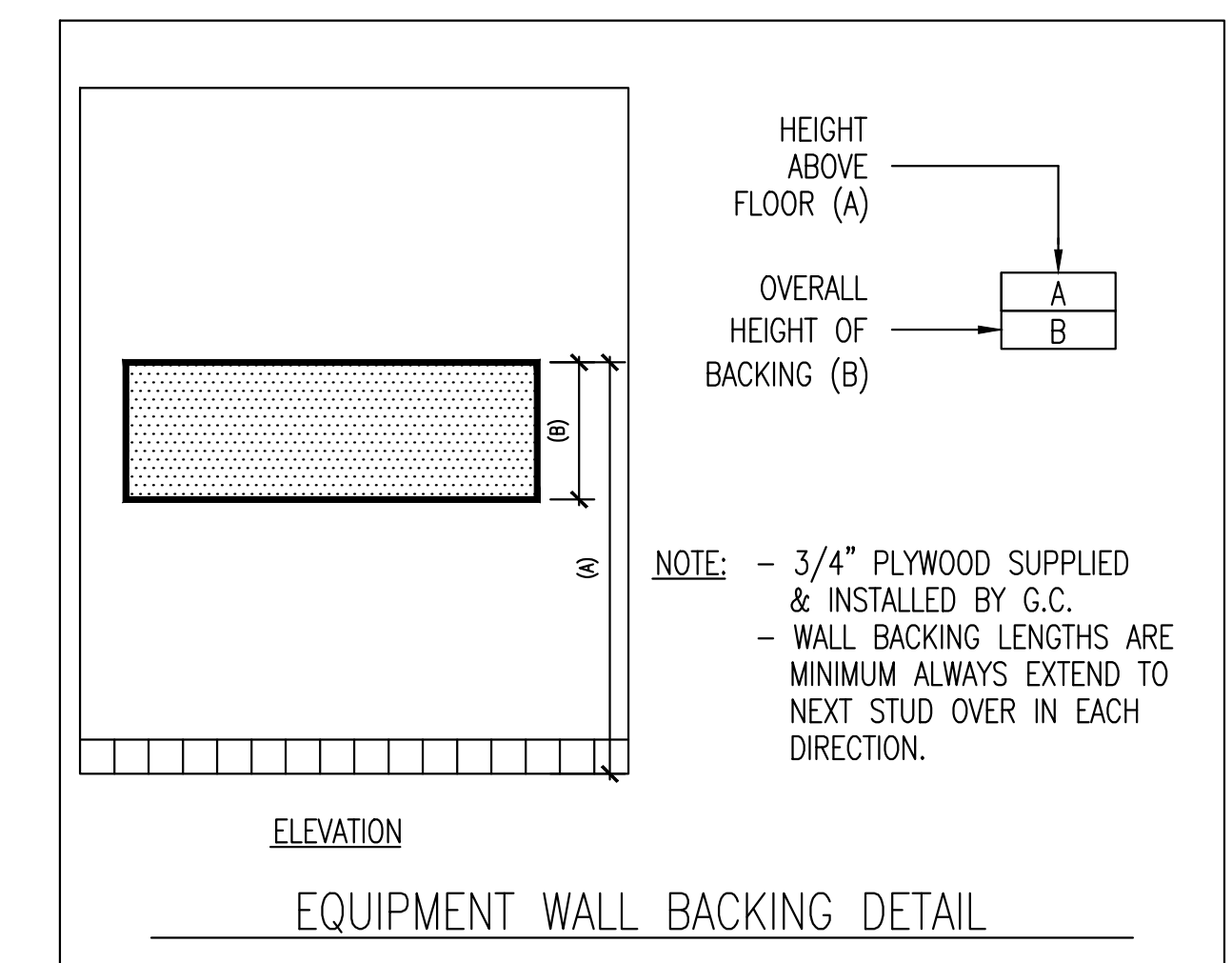
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SCALE:
1/4"=1'-0"
DRAWN BY:
SRB
PROJECT NO.

SHEET NO.
FS 5.0



NOTE: WALL BACKING IN THE WALLS BEHIND AND ADJACENT TO THE EXHAUST HOOD(S) TO BE 14 GA. GALVANIZED STEEL.
WOOD IS NOT TO BE USED WITHIN 18" OF HOOD PER CODE

GENERAL NOTE:
WALL BACKING SHOWN FOR NEW OR
RELOCATED EQUIPMENT ONLY.
G.C. TO REUSE EXISTING WALL BACKING
IF POSSIBLE, EVEN IF IDENTIFIED ON THIS
FOOD SERVICE WALL BACKING PLAN



7-31-24 FOR CONSTRUCTION

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REVISION**

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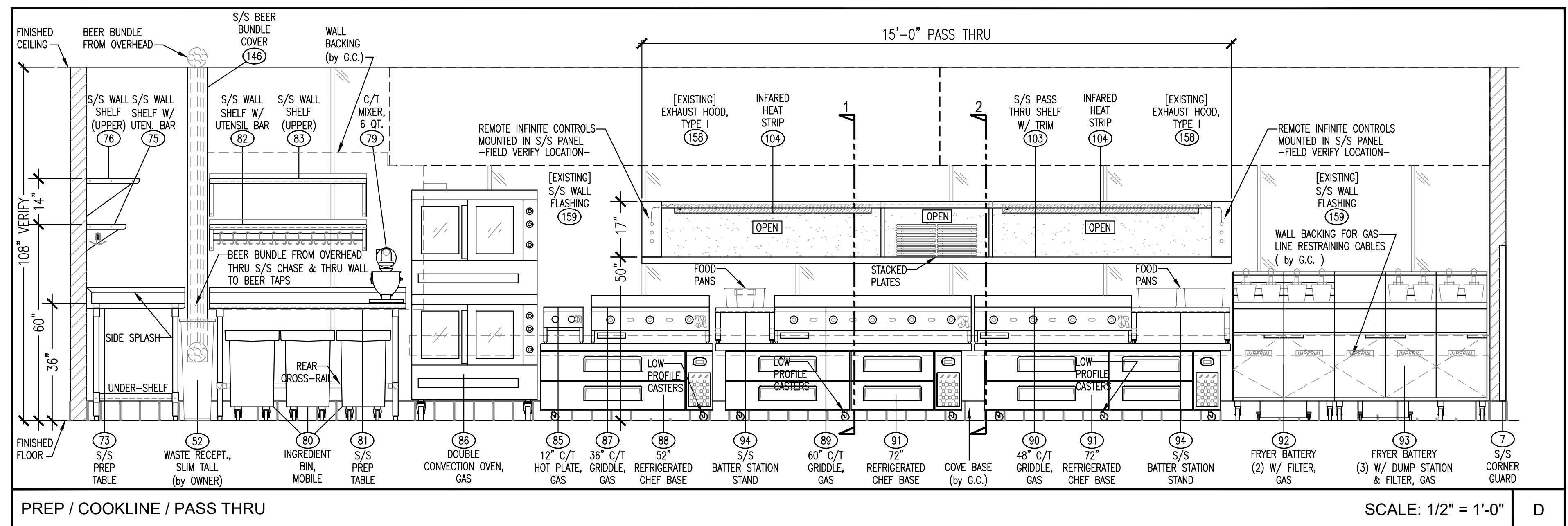
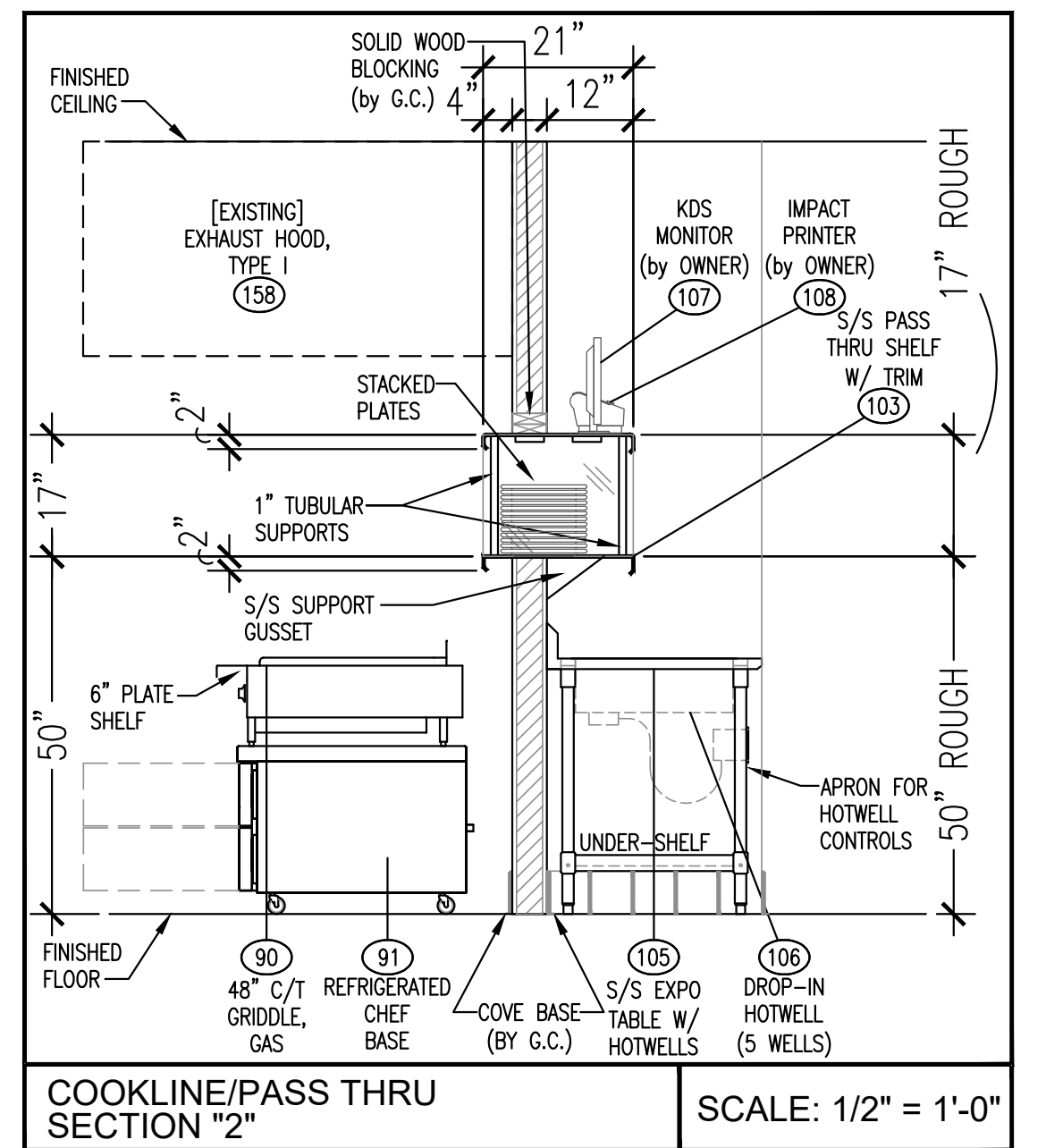
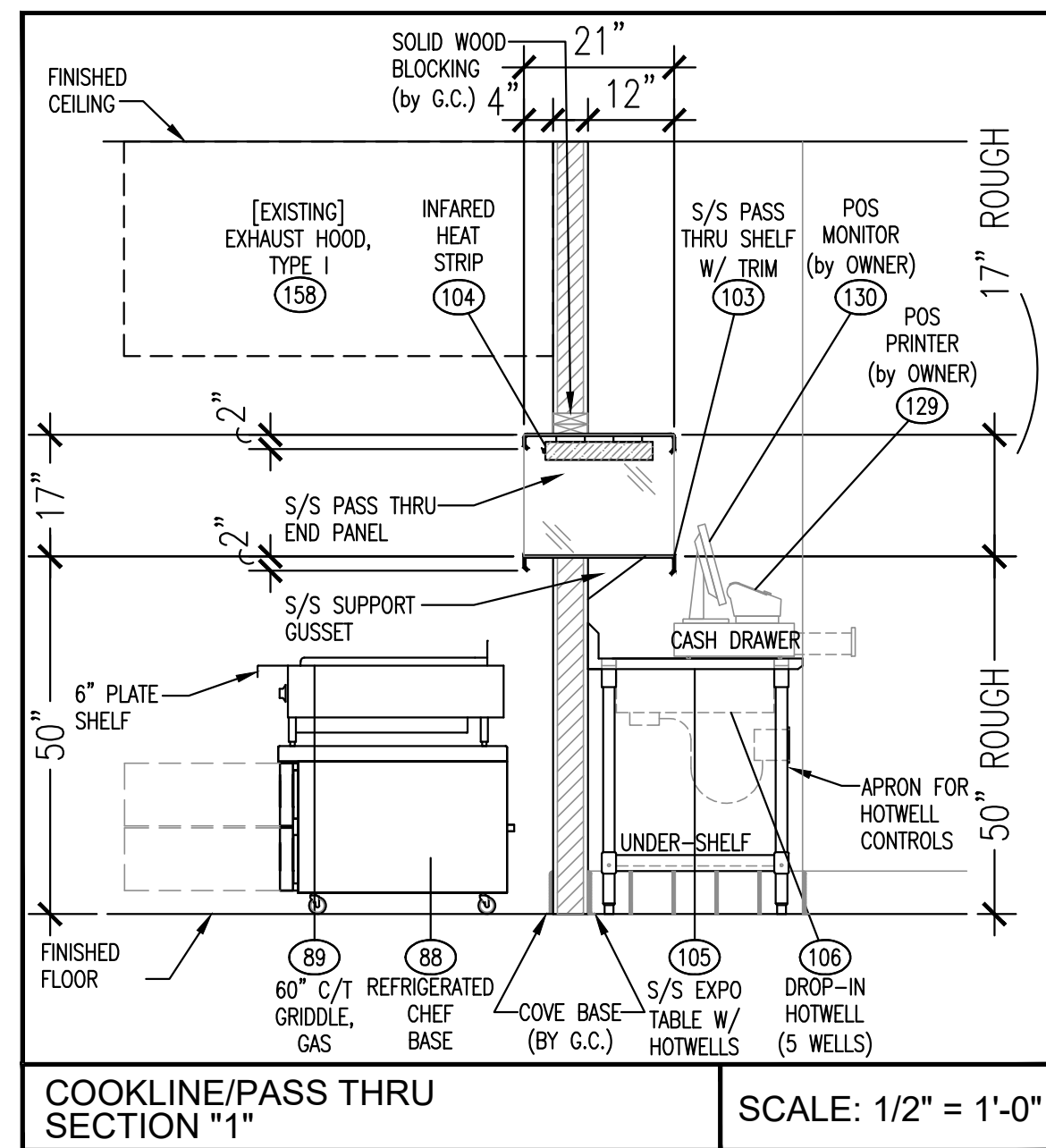
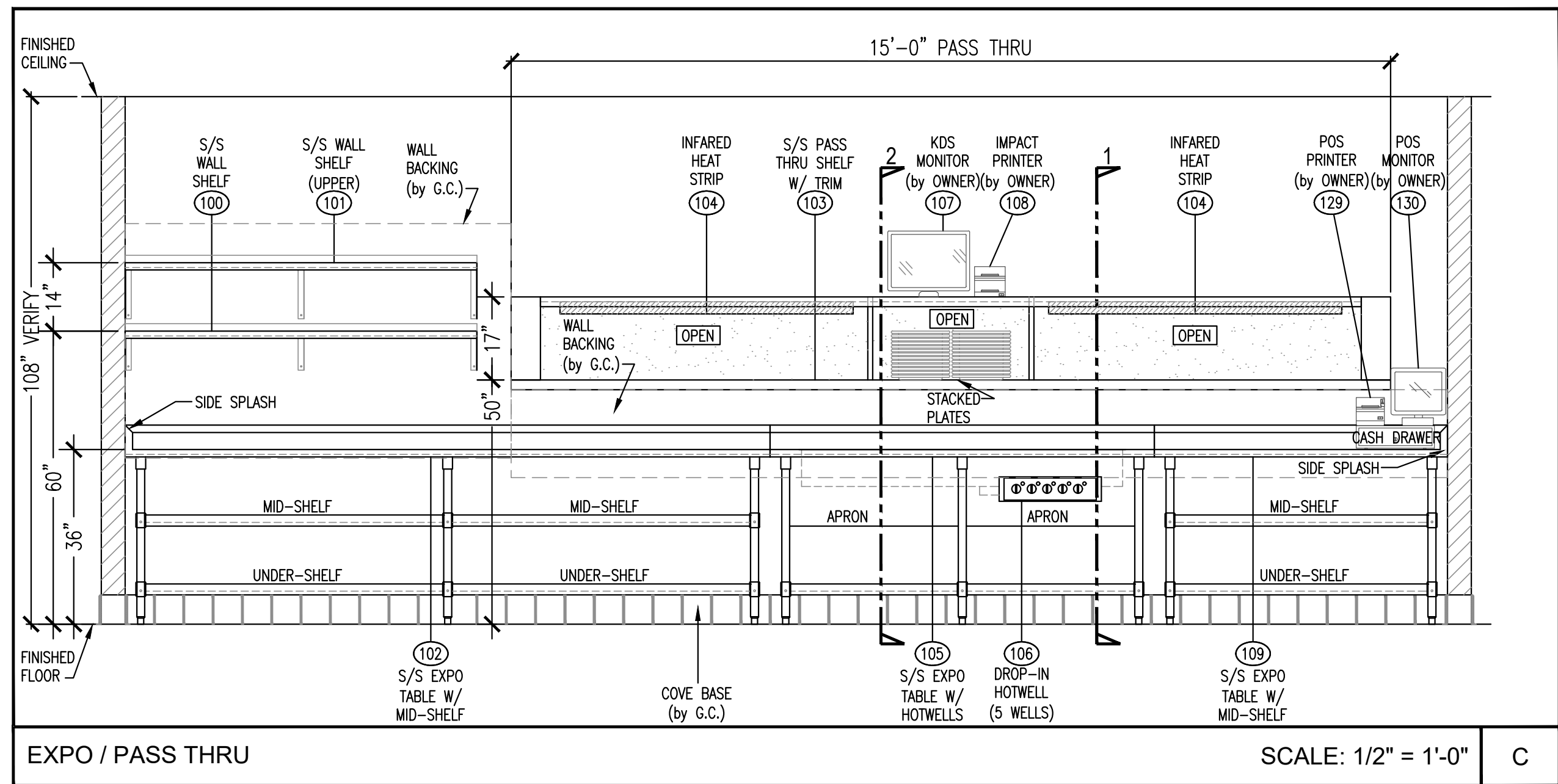
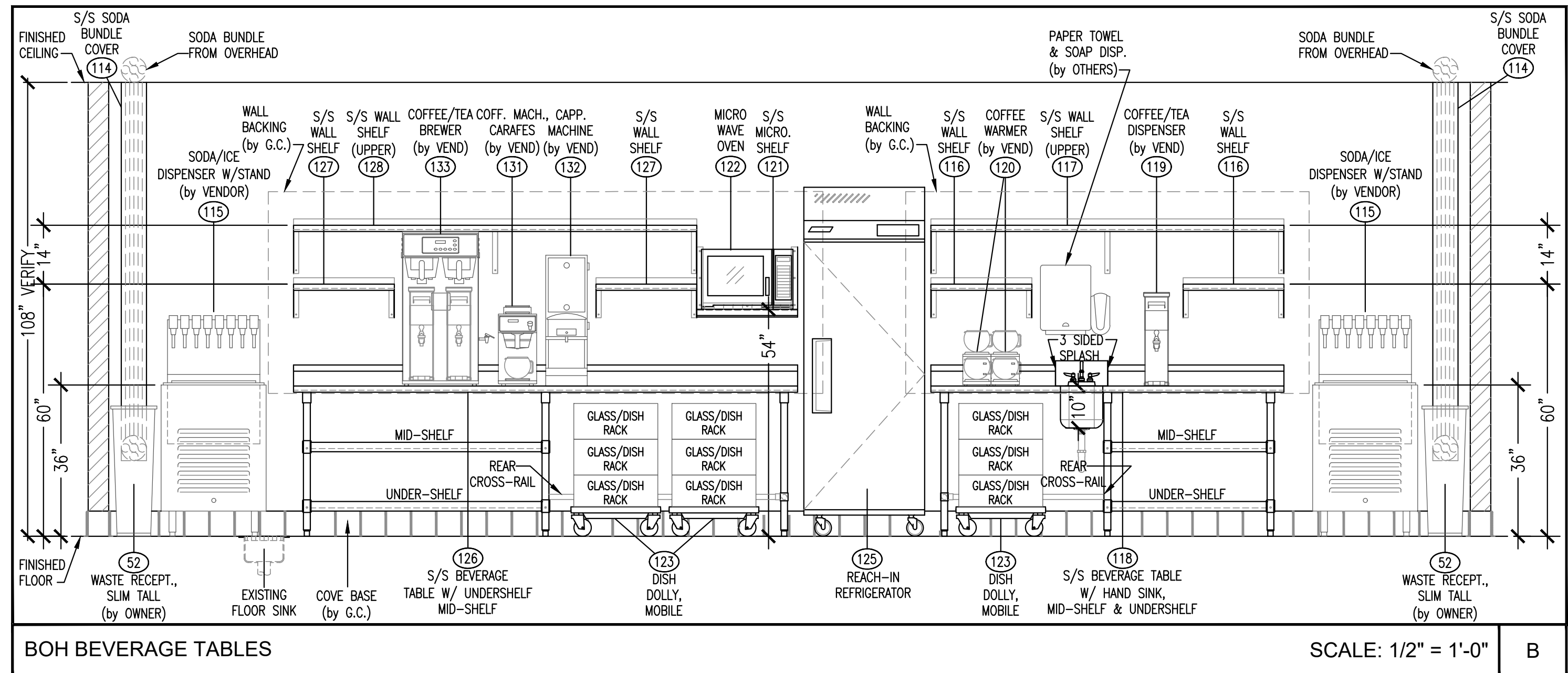
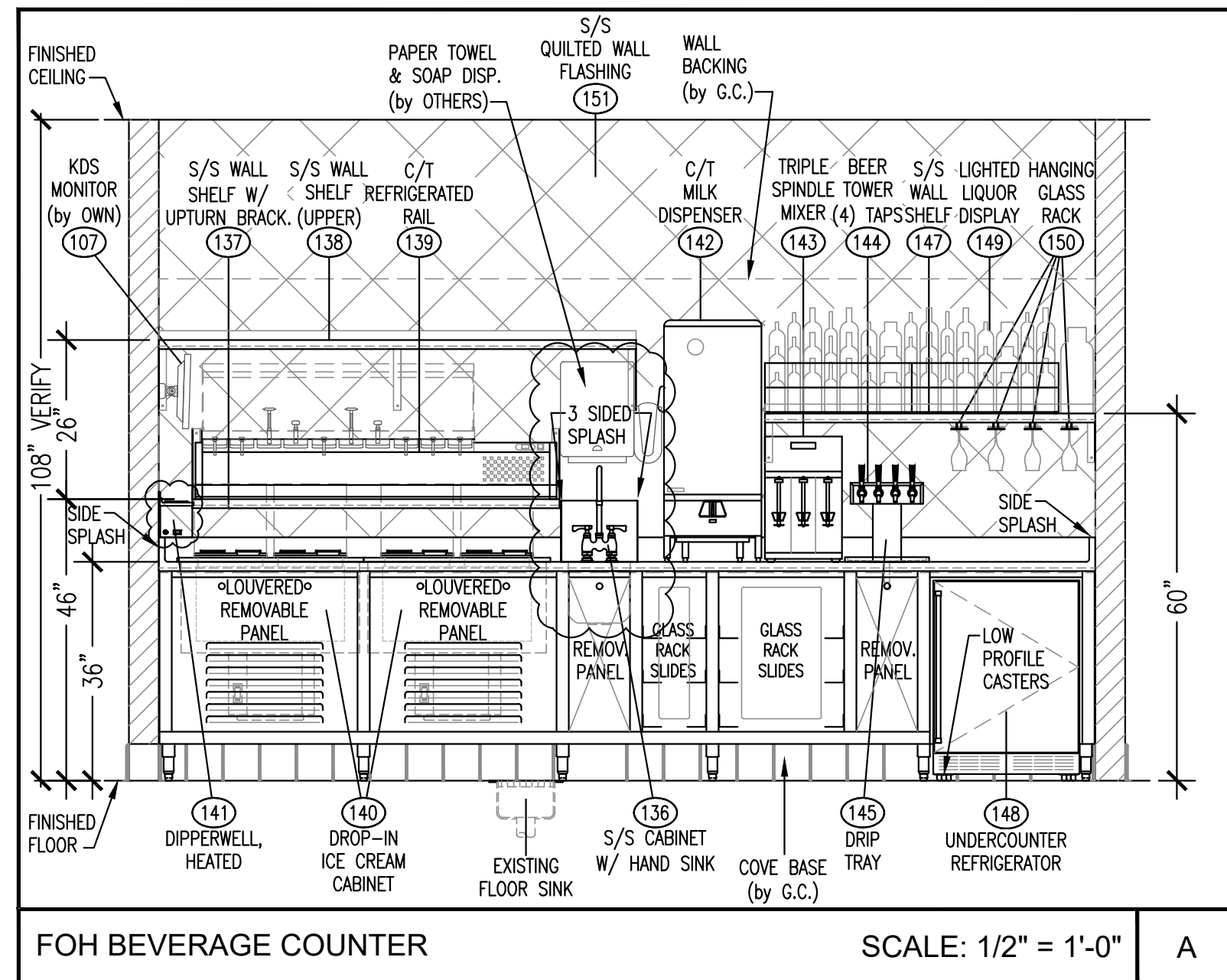
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REFERENCE
ONLY

GUNTHER TOODY'S
19502 E PARKER SQUARE DR
PARKER, CO 80134

HEET NAME:
SPECIAL
CONDITIONS
PLAN

FILE:
4"=1'-0"

FS 5.1



NOTE: REFER TO I.D. & ARCHITECTURAL DRAWINGS FOR TYPE OF CONSTRUCTION, MATERIALS, FINISHES, & ADDITIONAL DETAILS

REVISIONS:

07/28/22 **HEALTH REVISION**

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SHEET NAME:
EQUIPMENT ELEVATIONS

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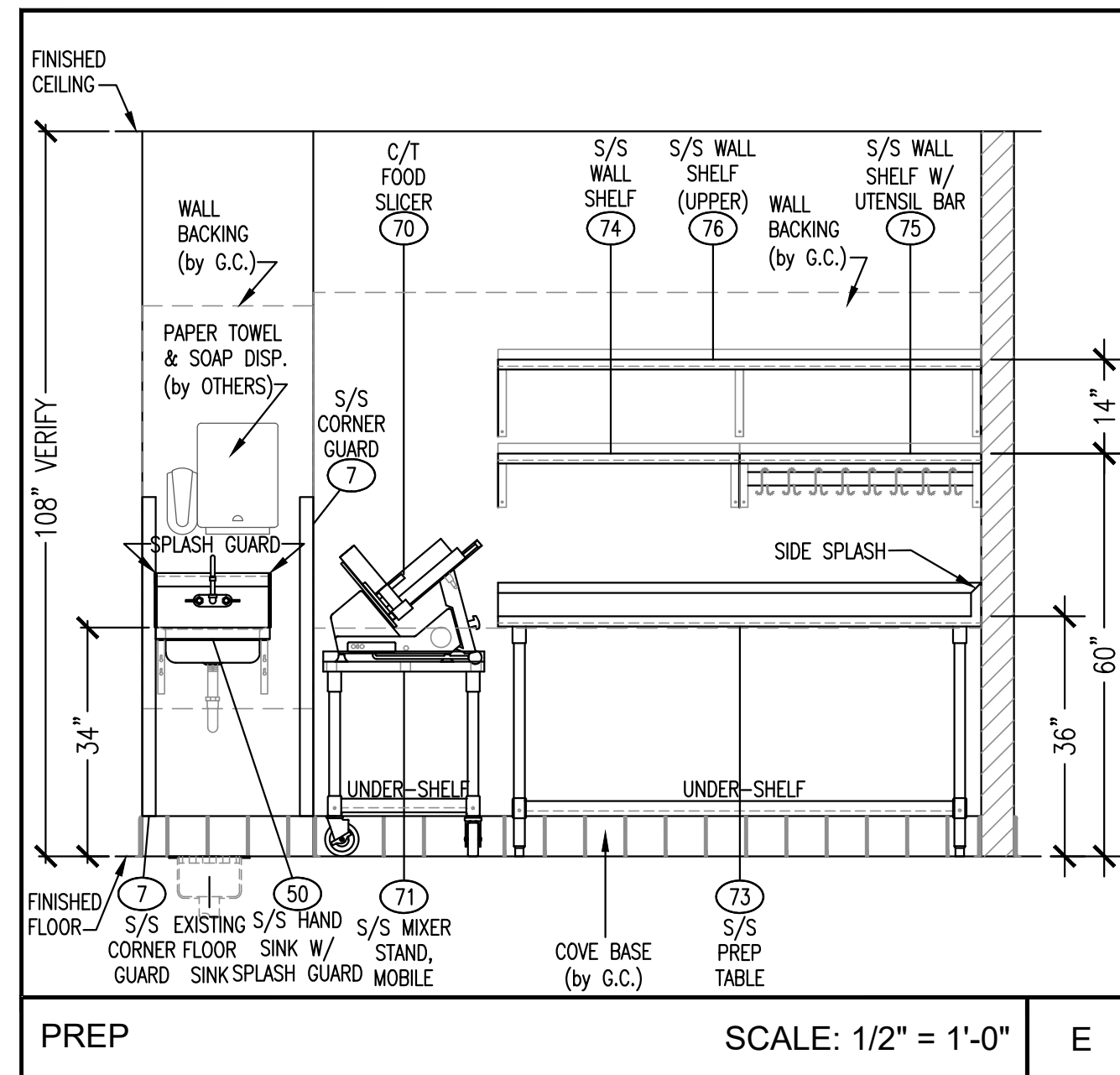
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1/2"=1'-0"

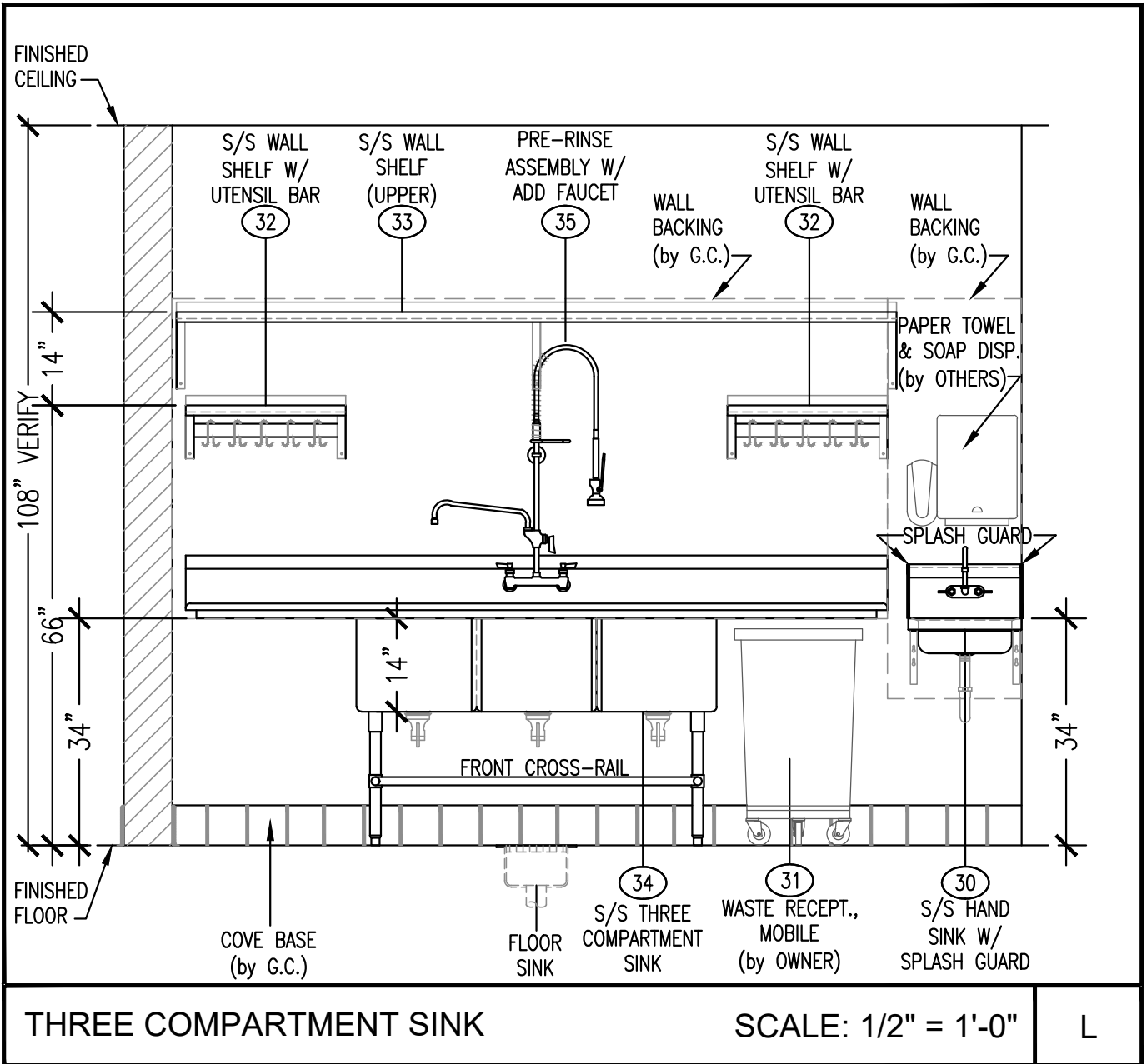
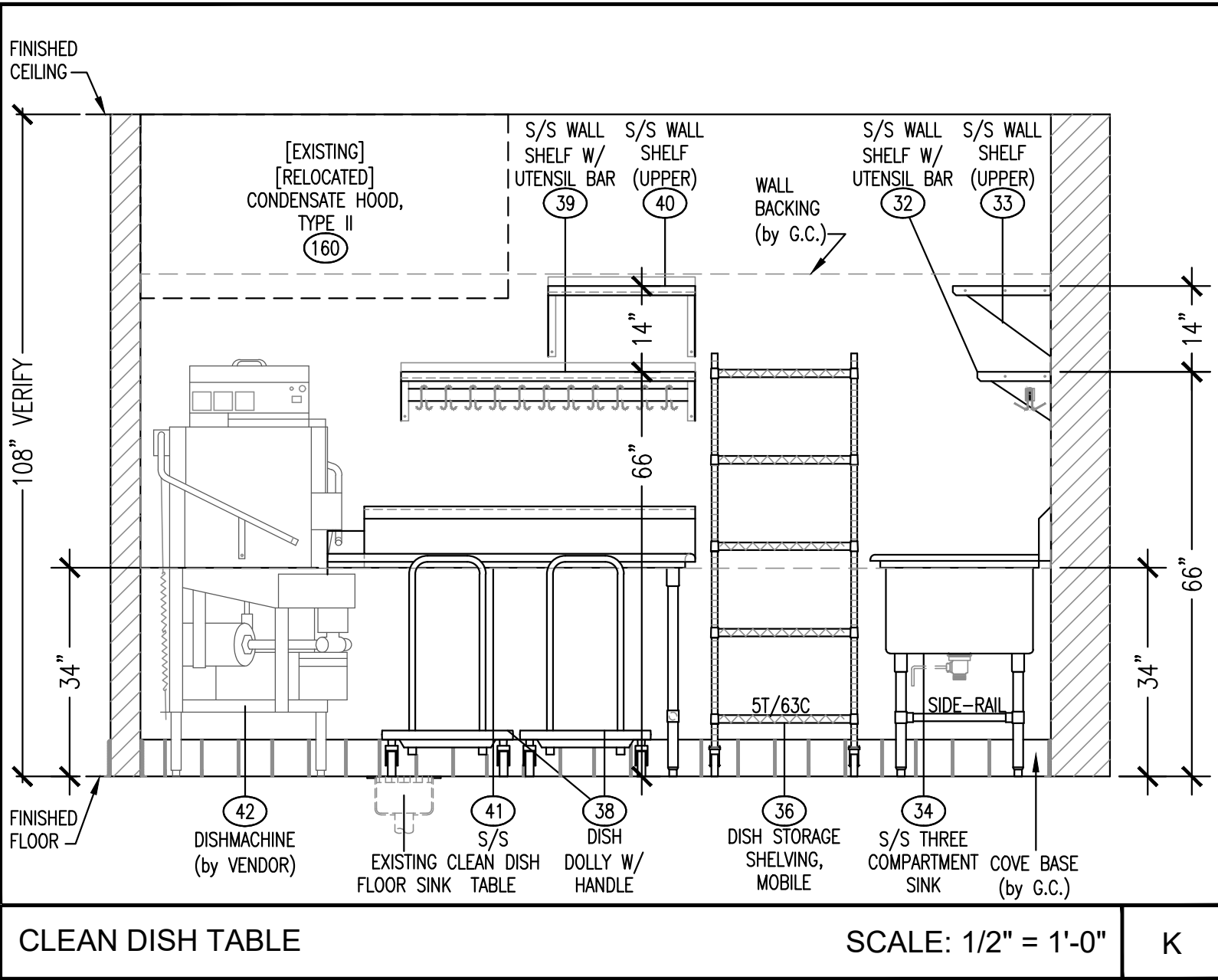
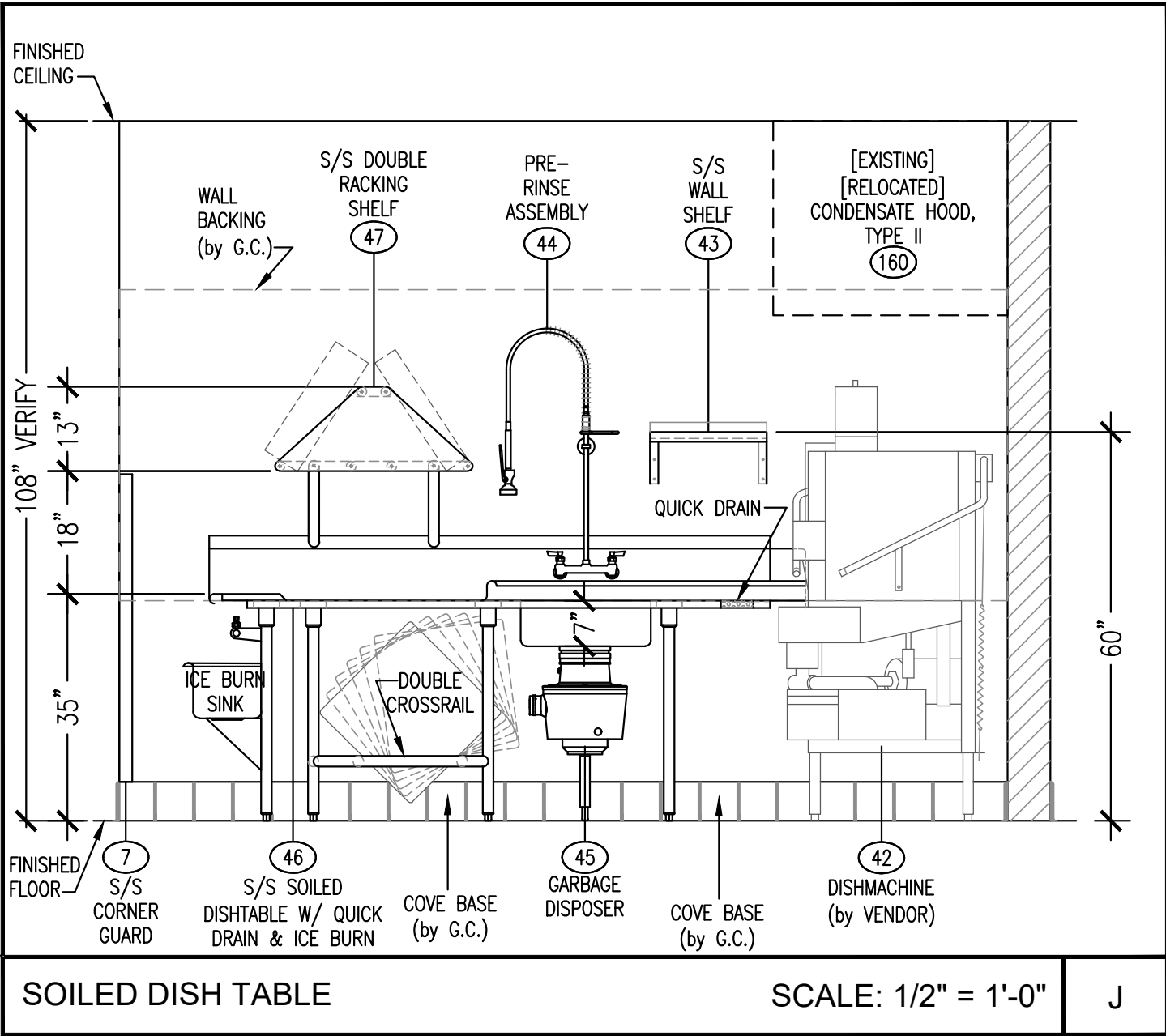
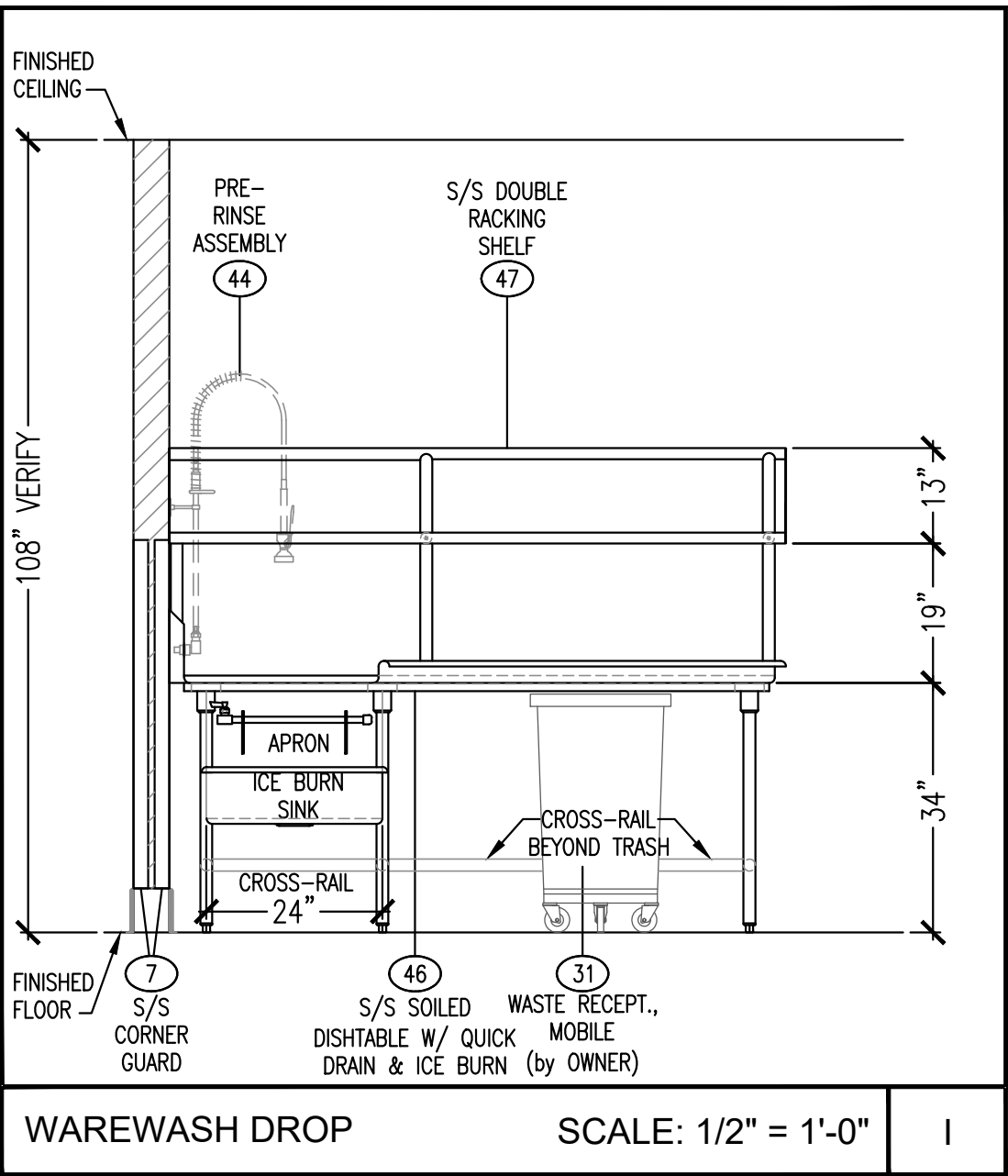
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PROJECT NO.

SHEET NO.

FS 6.0





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7-31-24 FOR CONSTRUCTION

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DRAWN BY:
SRB

PROJECT NO.

SHEET NO.
FS 6.2

ROOFTOP HVAC UNIT SCHEDULE																														
PLAN MARK	QTY	MFR	MODEL NO.	AIRFLOW (CFM)	MIN OA (CFM)	BLWR (HP)	ESP (IN)	GAS (NAT/PROP)	HEATING CAPACITY					NET COOLING CAPACITY						REFRIG	EFFICIENCY (STD/HI)	ARI EER/IEER SEER2 RATING	WEIGHT (LBS)	ELECTRICAL					REMARKS	
									INPUT MBH (SL)	OUTPUT MBH (ALT)	EAT (0F)	LAT (0F)	EFF	STG	TOTAL MBH	SENS MBH	EADB (0F)	EAWB (0F)	LADB (0F)					LAWB (0F)	VOLT	PH	FLA (LGST MTR)	MCA		MOCP
RTU-1	1	CARRIER	48FCTN08K2A5-0A1Q0	3,000	900	2.23	1.0	NAT	224	137.6	48.1	99.8	81%	2	79.88	67.12	81.1	62.9	55.9	53.1	R-410A	STD	11.2/15.0	1,082	208	3	6.4	43	50	1 - 8
RTU-2	1	CARRIER	48FCTN08K2A5-0A1Q0	3,000	900	2.23	1.0	NAT	224	137.6	48.1	99.8	81%	2	79.88	67.12	81.1	62.9	55.9	53.1	R-410A	STD	11.2/15.0	1,082	208	3	6.4	43	50	1 - 8
RTU-3	1	CARRIER	48FCRA05K2A5-0A1C0	1,600	240	1.06	0.50	NAT	110	66.9	59.1	97.8	80%	1	48.4	34.3	78.9	62.8	51.1	52.2	R-410A	STD	13.4 SEER2	652	208	3	7.1	26	30	1, 2, 3, 7, 8
RTU-4	1	CARRIER	48FCRA05K2A5-0A1C0	1,600	240	1.06	0.50	NAT	110	66.9	59.1	97.8	80%	1	48.4	34.3	78.9	62.8	51.1	52.2	R-410A	STD	13.4 SEER2	652	208	3	7.1	26	30	1, 2, 3, 7, 8

REMARKS
1. REFERS TO COOLING CAPACITIES BASED ON 93F OADB, 80F EADB, 67F EAWB @ 5331 FT ELEV, AND 105F CONDENSING TEMPERATURE
2. PROVIDE ADAPTER ROOF CURB, DIRECT DRIVE ECM MOTOR, HAIL GUARDS, MICROPROCESSOR CONTROL, PHASE MONITOR CONTROL, TIME GUARD II, AND 100% ECONOMIZER.
3. PROVIDE OPTIONAL NON-FUSED DISCONNECT SWITCH, CONVENIENCE OUTLET (UNPOWERED), RA SMOKE DETECTOR, MERV-8 FILTERS, AND WINTER START PACKAGE.
4. PROVIDE POWER EXHAUST WITH TWO SPEEDS OR TWO FANS OR MODULATING EXHAUST PROPORTIONAL TO ECONOMIZED POSITION
5. PROVIDE HUMIDIMIZER ADAPTIVE DEHUMIDIFICATION SYSTEM.
6. PROVIDE POWER EXHAUST SYSTEM.
7. PROVIDE FLUE EXTENSIONS AS REQUIRED TO MEET NECESSARY CODE REQUIREMENT CLEARANCES.
8. PROVIDE STAINLESS STEEL HEAT EXCHANGER

GRILLES, REGISTERS, AND DIFFUSERS											
PLAN MARK	DESCRIPTION	FACE SIZE	NECK SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
EG1	3/4" SPACING 350 DEFLECTION RETURN GRILLE	24" x 24"	22" x 22"	STEEL	WHITE	LAY-IN	GC	GC	TITUS	350RL	PROVIDE WITH INTEGRAL OBD
SD1	HIGH PERFORMANCE THREE CONE DIFFUSER	24" x 24"	SEE PLAN	STEEL	WHITE	LAY-IN	GC	GC	TITUS	TMS	PROVIDE WITH INTEGRAL OBD

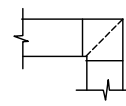
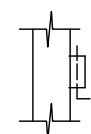
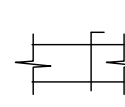
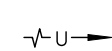
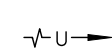
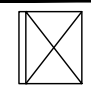
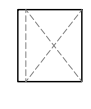
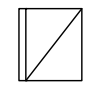
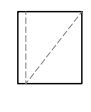
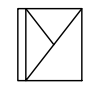
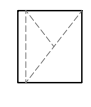
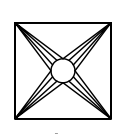
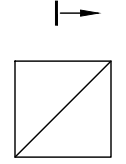
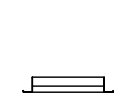
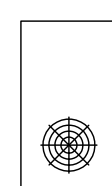
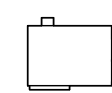
EXISTING EXHAUST FAN SCHEDULE						
PLAN MARK	DESCRIPTION	HORSEPOWER	V/P/H	FURNISHED BY	INSTALLED BY	REMARKS
(E)EF-1	EXISTING KITCHEN EXHAUST FAN	1-1/2	208/3/60	EXISTING	EXISTING	EXISTING UNIT WITH COMBINATION DISCHARGE SCOOP & GREASE PAN AND HINGED ACCESS WHEEL
(E)EF-2	EXISTING KITCHEN EXHAUST FAN	1-1/2	208/3/60	EXISTING	EXISTING	EXISTING UNIT WITH COMBINATION DISCHARGE SCOOP & GREASE PAN AND HINGED ACCESS WHEEL
(E)EF-4	EXISTING KITCHEN EXHAUST FAN	1/6	120/1/60	EXISTING	EXISTING	EXISTING UNIT

EXISTING EVAPORATIVE COOLER SCHEDULE									
PLAN MARK	MFR	MODEL	CFM	ESP (IN)	SPD	HP	VOLT	PH	REMARKS
(E)EC-1	EXISTING	EXISTING	-	-	-	1/2	120	1	EXISTING UNIT

VENTILATION SCHEDULE (2021 IMC)									
SYSTEM OR UNIT #	ROOM / AREA NAME	ZONE FLOOR AREA (SQ.FT.) Az	OUTDOOR AIRFLOW REQUIRED PER PERSON (CFM/PERSON) Rp	AREA OUTDOOR AIR RATE (CFM/SQ.FT.) Ra	ZONE OCCUPANT DENSITY (PPL/1000 SQ.FT.)	ZONE POPULATION (PEOPLE) Pz	BREATHING ZONE OUTDOOR AIRFLOW (CFM) Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	REQUIRED ZONE OUTDOOR AIRFLOW (CFM) Voz
RTU-1 & 2									1790
	DINING ROOM	2,070	8	0.18	See Note 1	130	1413	0.8	1766
	CORR/TRANSITION	320	-	0.06	-		19	0.8	24
RTU-3 & 4									476
	KITCHEN	1,324	8	0.12	20	26	371	0.8	463
	OFFICE	81	5	0.06	5	1	10	0.8	13
TOTAL OUTSIDE AIR REQUIRED									2,253
TOTAL OUTSIDE AIR PROVIDED									2,280

NOTES:

(1) Peak number of occupants during typical use, per ASHRAE 62.1 section 6.2.1.1.7.

ABBREVIATIONS		MECHANICAL LEGEND		
(D) (E) (N) AAV AD AFF AFG AHU B BB BF BFP BT BV CD CFM CH CO COTG CV CUH CWD DF DHW DSN EC ECO EDH EF EWC EWH FURN FCO FCU FD FS G GC GM GPH GPM GUH GW GWH HB HP HX IM LAV LS MAU MC MF NC NO NTS OA ORD P PC PRV PSI RA RAR RD RH RTU SA SAR SF SFT SK SI SS T&P TD TYP UR VAV VVT WB WCO WH	DEMO EXISTING NEW AIR ADMITTANCE VALVE AREA DRAIN ABOVE FINISH FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT BOILER BASEBOARD BOOSTER FAN BACKFLOW PREVENTER BATH TUB BALL VALVE CONDENSATE DRAIN CUBIC FEET PER MINUTE CHILLER CLEANOUT CLEANOUT TO GRADE CONDENSING UNIT CHECK VALVE CABINET UNIT HEATER DOMESTIC COLD WATER DRINKING FOUNTAIN DOMESTIC HOT WATER DOWN SPOUT NOZZLE ELECTRICAL CONTRACTOR END OF LINE CLEANOUT ELECTRIC DUCT HEATER EXHAUST FAN ELECTRIC WATER COOLER ELECTRIC WATER HEATER FURNACE FLOOR CLEANOUT FAN COIL UNIT FLOOR DRAIN FLOOR SINK GAS GENERAL CONTRACTOR GAS METER GALLONS PER HOUR GALLONS PER MINUTE GAS UNIT HEATER GREASE WASTE GAS WATER HEATER HOSE BIB HEAT PUMP HEAT EXCHANGER ICE MAKER BOX LAVATORY LAUNDRY SINK MAKE-UP AIR UNIT MECHANICAL CONTRACTOR MEASURE FLOW NOT IN CONTRACT NORMALLY CLOSED NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OVER FLOW ROOF DRAIN PUMP PLUMBING CONTRACTOR PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH RETURN AIR RETURN AIR REGISTER ROOF DRAIN RADIANT HEATER ROOF TOP UNIT SUPPLY AIR SUPPLY AIR REGISTER SUPPLY FAN SERIES FAN TERMINAL SHOWER SINK SAND/OIL INTERCEPTOR SERVICE SINK TEMPERATURE & PRESSURE TRENCH DRAIN TYPICAL URINAL VARIABLE AIR VOLUME VARI TRAC WASHER BOX WALL CLEANOUT WALL HYDRANT	 PROVIDE TURNING VANES AT ALL CORNER BENDS IN ACCORDANCE WITH S.M.A.C.N.A. LOW VELOCITY DUCT MANUAL.  TYPICAL DUCT TAKE-OFF WITH MANUAL VOLUME DAMPER. MARK DAMPER POSITION AFTER AIR BALANCE.  THERMOSTAT SHALL BE MOUNTED PER OWNER'S DIRECTION. DO NOT MOUNT IN DIRECT SUNLIGHT. THERMOSTAT SHALL BE MOUNTED NEAR RETURN AIR DUCT AT 48" AFF.  MANUAL BALANCING DAMPER - PROVIDE WHERE SHOWN, AT ALL RUN-OUTS TO AIR OUTLETS, AND AT ALL MAIN DUCT SPLITS. DAMPERS SHALL BE "YOUNG REGULATOR CO" MODEL 820 OR EQUAL.  POINT OF CONNECTION - NEW TO EXISTING  INDICATES UNDERCUT DOOR FOR RETURN AIR	 SUPPLY UP  SUPPLY DOWN  RETURN UP  RETURN DOWN  EXHAUST UP  EXHAUST DN  FLEXIBLE DUCT  (D)XX = DEMO  MANUAL VOLUME DAMPER  CEILING SUPPLY DIFFUSERS SEE SCHEDULES  CEILING RETURN AIR REGISTER SEE SCHEDULES  SIDEWALL SUPPLY/RETURN REGISTER, SEE SCHEDULES	 FIRE DAMPER  SMOKE DAMPER  FIRE SMOKE DAMPER  EQUIPMENT TAG (POC) POINT OF CONNECTION  ROOFTOP UNIT  FURNACE  CONDENSING UNIT  PARALLEL FAN POWERED VAV BOX  VAV/WT BOX
HVAC TESTING AND BALANCING REQUIREMENTS:				
THE MECHANICAL CONTRACTOR SHALL EMPLOY THE SERVICES OF AN INDEPENDENT TEST AND BALANCE CONTRACTOR TO BALANCE THE HVAC SYSTEMS IN ACCORDANCE WITH THE DRAWINGS.				
HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE LATEST NEBB PROCEDURAL STANDARDS. THE BALANCING CONTRACTOR SHALL HAVE AT LEAST (3) THREE YEARS OF EXPERIENCE IN TESTING AND BALANCING.				
THE BALANCING REPORT SHALL CONTAIN ALL INFORMATION REQUIRED BY NEBB PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING. THE REPORT SHALL INCLUDE, BUT MAY NOT BE LIMITED TO THE FOLLOWING:				
A COMPLETE LIST OF BALANCING INSTRUMENTS AND THEIR LATEST CALIBRATION DATES IS TO BE INCLUDED IN THE FINAL REPORT.				

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A COMPLETE LIST OF BALANCING INSTRUMENTS AND THEIR LATEST CALIBRATION DATES IS TO BE INCLUDED IN THE FINAL REPORT.

BLOWER: MOTOR HP, VOLTAGE, AMPERAGE (NAMEPLATE AND ACTUAL)
RPM, BELT MAKE/MODEL, SHEAVE MAKE/MODEL.

UNIT: MAKE/MODEL/SERIAL NUMBER, FILTER TYPE/SIZE/QUANTITY,
FINAL BALANCED DAMPER POSITIONS.

AIR INLETS AND OUTLETS: DESIGN/PRELIMINARY/FINAL CFM'S
(EXCLUDES RETURN GRILLES).

ALL MANUAL SINGLE BLADE DAMPERS SHALL BE SECURED IN THEIR FINAL BALANCED POSITIONS WITH A SHEET METAL SCREW THRU THE DAMPER HANDLE.

ALL COMPONENTS SHALL BE BALANCED TO WITHIN $\pm 10\%$ OF DESIGN CFM REQUIREMENTS.

COMMISSIONING NOTE

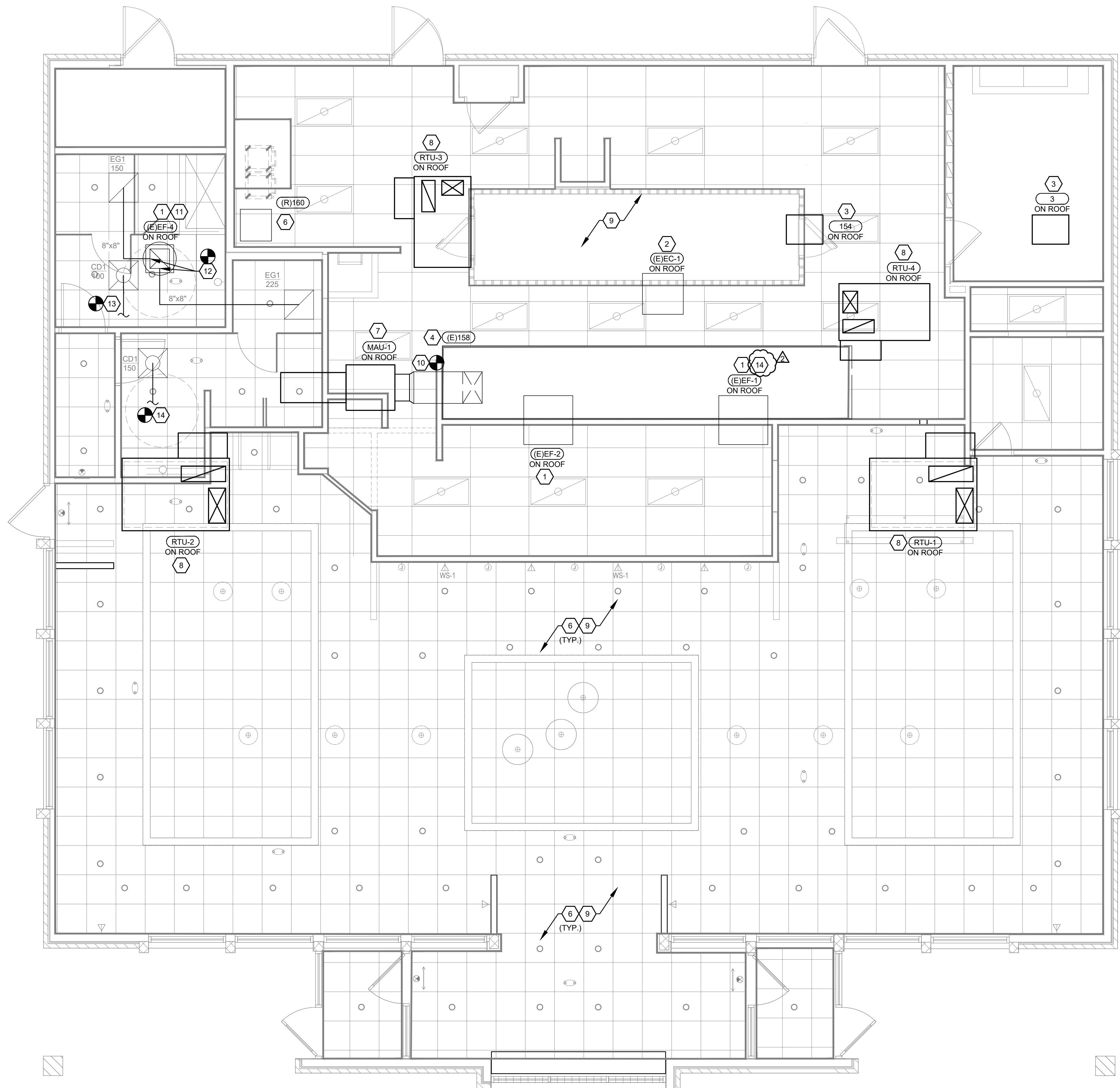
MECHANICAL EQUIPMENT COMPLIANCE NOTES

PRIOR TO THE FINAL MECHANICAL AND PLUMBING INSPECTIONS, THE REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY SHALL PROVIDE EVIDENCE OF MECHANICAL SYSTEMS, COMMISSIONING AND COMPLETION IN ACCORDANCE WITH THE IECC SECTION C408 – SYSTEM COMMISSIONING.

THE MECHANICAL CONTRACTOR SHALL CONTACT THE STAMPING MECHANICAL ENGINEER AND HIS/HER APPROVED AGENCY TO PROVIDE A PRELIMINARY AND FINAL COMPLIANCE REPORT PER THE IECC SECTION C408.2.

COPIES OF ALL DOCUMENTS SHALL BE GIVEN TO THE OWNER OR OWNERS REPRESENTATIVE AND MADE AVAILABLE TO THE CODE OFFICIAL UPON REQUEST IN ACCORDANCE WITH IECC SECTIONS C408.2.4 AND C408.2.5.

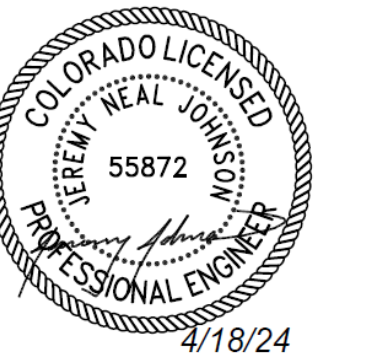
 LLC EXCELLENCE IN ENGINEERING 12005 Antelope Trail Parker, Colorado 80138 303-748-1189 info@eeparker.com																																																							
																																																							
FOR CONSTRUCTION																																																							
PROJECT NAME: GUNTHER TOODY'S REMODEL PROJECT ADDRESS: 19502 E PARKER SQUARE DR. PARKER, CO 80134																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th colspan="3" style="text-align: left; padding: 5px;">ISSUE RECORD</th></tr><tr><th style="width: 15%; text-align: left; padding: 5px;">DATE</th><th style="width: 45%; text-align: left; padding: 5px;">DESCRIPTION</th><th style="width: 40%; text-align: left; padding: 5px;"></th></tr></thead><tbody><tr><td style="padding: 5px;">05/17/2022</td><td style="padding: 5px;">BLDG PERMIT SUBMITTAL</td><td style="padding: 5px;"></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td colspan="3" style="padding: 5px;">REVISIONS</td></tr><tr><td style="text-align: left; padding: 5px;">REV.</td><td style="text-align: left; padding: 5px;">DATE</td><td style="text-align: left; padding: 5px;">DESCRIPTION</td></tr><tr><td style="padding: 5px;">1</td><td style="padding: 5px;">08/29/22</td><td style="padding: 5px;">CLIENT CHANGES</td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr><tr><td style="height: 20px;"></td><td></td><td></td></tr></tbody></table>		ISSUE RECORD			DATE	DESCRIPTION		05/17/2022	BLDG PERMIT SUBMITTAL																				REVISIONS			REV.	DATE	DESCRIPTION	1	08/29/22	CLIENT CHANGES																		
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CODED NOTES

- EXISTING EXHAUST FAN TO REMAIN. THE GENERAL CONTRACTOR SHALL REPAIR/REPLACE FAN BELTS, BALANCE FAN BLADES, GREASE BEARINGS AND VERIFY MOTOR FUNCTION/ROTATION. REPAIR/REPLACE ALL DEFECTIVE PARTS AS REQUIRED TO RETURN THE UNIT TO WORKING ORDER.
- EXISTING EVAPORATIVE COOLER TO REMAIN. THE GENERAL CONTRACTOR SHALL REPAIR/REPLACE FAN BELTS, BALANCE FAN BLADES, GREASE BEARINGS AND VERIFY MOTOR FUNCTION/ROTATION. VERIFY PROPER WATER FLOW AND SOLENOID ACTION. REPAIR/REPLACE ALL DEFECTIVE PARTS AS REQUIRED TO RETURN THE UNIT TO WORKING ORDER.
- COORDINATE THE LOCATION OF THE COOLER / FREEZER CONDENSING UNIT ON THE ROOF WITH THE KITCHEN EQUIPMENT SUPPLIER AND SITE CONDITIONS PRIOR TO ROUGH-IN. ENSURE ALL CLEARANCE REQUIREMENTS ARE MAINTAINED. INSTALL THE KITCHEN EQUIPMENT SUPPLIER FURNISHED CONDENSING UNIT, LINESET, AND ALL ADDITIONAL SPECIALTIES AND MAKE THE FINAL CONNECTION BETWEEN THE CONDENSING UNIT AND THE EVAPORATOR COIL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- EXISTING TYPE I HOOD TO REMAIN.
- EXISTING TYPE II HOOD TO BE RELOCATED. PRIOR TO SYSTEM MODIFICATION, THE GENERAL CONTRACTOR SHALL TAKE EXHAUST AIRFLOW MEASUREMENT, RELOCATE THE TYPE II HOOD AND PROVIDE SUPPORT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ADDITIONAL DUCTWORK AS REQUIRED AND CONNECT TO THE EXISTING DUCTWORK UP TO THE ROOF. MATCH THE EXISTING DUCTWORK GAGE AND MATERIAL.
- EXISTING DUCTWORK, DIFFUSER LOCATIONS AND DIFFUSERS TO REMAIN. PRIOR TO SYSTEM MODIFICATION, THE GENERAL CONTRACTOR SHALL TAKE OUTSIDE AIR MEASUREMENTS AND AIRFLOW MEASUREMENTS AT EACH AIR DEVICE AND RECORD. REMOVE ALL AIR DEVICES DURING CONSTRUCTION, CLEAN, REPAIR AND STORE. RE-INSTALL THE AIR DEVICES AND RE-BALANCE THE SYSTEM TO THE VALUES NOTED PRIOR TO CONSTRUCTION.
- REPLACE THE EXISTING MAKEUP AIR UNIT IN PLACE. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS APPLICABLE PER THE STRUCTURAL DRAWINGS.
- REPLACE THE EXISTING PACKAGED ROOFTOP UNIT IN PLACE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE CURB ADAPTOR AND MAKE CONNECTIONS TO THE EXISTING THERMOSTAT AND SENSORS. REPAIR/REPLACE AS REQUIRED. EXTEND WIRING AS REQUIRED AND CONNECT TO THE SE DEVICES. COORDINATE ALL REQUIREMENTS WITH EXISTING FIELD CONDITIONS.
- PRIOR TO THE START OF ALL WORK, THE GENERAL CONTRACTOR SHALL TAKE AIRFLOW READINGS AT EACH AIR DEVICE AND RECORD THE VALUES. REMOVE AIR DEVICES WHEN THE CEILING IS REMOVED. WHEN THE NEW CEILING HAS BEEN INSTALLED, INSTALL NEW AIR DEVICES (SEE SCHEDULE ON DWG. M010) IN THEIR PREVIOUS LOCATIONS AND RECONNECT. REBALANCE THE DEVICES TO THE RECORDED VALUES.
- CONNECT TO THE EXISTING 26"x16" MAKEUP AIR DUCTWORK ON THE ROOF. INSULATE AND PROTECT THE DUCTWORK TO MATCH THE EXISTING CONDITION.
- REBALANCE THE EXISTING RESTROOM EXHAUST FAN TO ACCOMMODATE THE AIRFLOWS NOTED.
- CONNECT TO THE EXISTING 16"x16" DUCTWORK DROP FROM THE EXISTING RESTROOM EXHAUST FAN.
- REVISE THE DUCTWORK SERVING THE EXISTING RESTROOM GROUPS TO ALLOCATE AIR AS NOTED. PROVIDE ADDITIONAL DUCTWORK AND CONNECT TO THE EXISTING SYSTEM AS REQUIRED.
- IN COMPLIANCE WITH IMC 907.1.1, EXHAUST FAN (EIEF-1) SHALL BE THERMOSTATICALLY ACTIVATED, BY MEANS OF A HOOD DUCT RISER MOUNTED THERMOSTAT, WHENEVER ELEVATED TEMPERATURES (85°F) ARE SENSED IN THE EXHAUST SYSTEM.

SYMBOLS & ABBREVIATIONS



**FOR
CONSTRUCTION**

PROJECT NAME:
**GUNTHER TOODY'S
REMODEL**

PROJECT ADDRESS:
**19502 E PARKER
SQUARE DR.
PARKER, CO 80134**

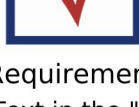
ISSUE RECORD		
DATE	DESCRIPTION	
05/17/2022	BLDG PERMIT SUBMITTAL	

REVISIONS		
REV.	DATE	DESCRIPTION
1	08/29/22	CLIENT CHANGES
2	04/08/24	CITY COMMENTS

HVAC PLAN

M100

 COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate		
Project Information		
Energy Code:	2021 IECC	
Project Title:	Gunter Toddy's Remodel	
Location:	Parker, Colorado	
Climate Zone:	5b	
Project Type:	Alteration	
Construction Site:	Owner/Agent:	Designer/Contractor:
19502 E. Parker Square Drive Parker, Colorado 80134		Loren Priest EE LLC 12005 N. Antelope Trail Parker, Colorado 80228 303-748-1189 info@eeparker.com
Mechanical Systems List		
Quantity System Type & Description		
2	RTU-3 & 4 (Single Zone): Heating: 2 each - Central Furnace, Gas, Capacity = 110 kBTU/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 2 each - Single Package DX Unit, Capacity = 48 kBTU/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FAN SYSTEM 1 KITCHEN -- Compliance (Brake HP and fan efficiency method) : Passes Fans: FAN 1 Supply, Constant Volume, 1600 CFM, 1.1 motor nameplate hp, 0.7 design brake hp (0.7 max. BHP), 0.00 fan energy index , fan exception: Part of code listed equipment	
2	RTU-1 & 2 (Single Zone): Heating: 2 each - Central Furnace, Gas, Capacity = 224 kBTU/h Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 3 each - Single Package DX Unit, Capacity = 80 kBTU/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency = 11.00 EER Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 14.60 IEER Fan System: FAN SYSTEM 2 DINING RM -- Compliance (Brake HP and fan efficiency method) : Passes Fans: FAN 2 Supply, Constant Volume, 3000 CFM, 2.2 motor nameplate hp, 1.7 design brake hp (1.7 max. BHP), 0.00 fan energy index , fan exception: Part of code listed equipment	
1	DWH-1: Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 199 kBTU/h w/ Circulation Pump Proposed Efficiency: 97.00 % Et, Required Efficiency: 80.00 % Et	
Mechanical Compliance Statement		
<i>Compliance Statement:</i> The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical 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.		
Name - Title _____ Signature _____ Date _____		
Project Title: Gunter Toddy's Remodel ☐ Report date: 12/28/23 Data filename: Page 1 of 10		



COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.13.2 C403.13.3 [FO9]	Snow/melt system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
Additional Comments/Assumptions:			
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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5. C404.5.1. C404.5.2 [PL6]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C404.6.1. C404.6.2 [PL3]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C404.6.1. C404.6.1. 1 [PL8]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)
2 Medium Impact (Tier 2)
3 Low Impact (Tier 3)

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Section # & Req.ID	Mechanical Focus-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ¹	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.8.4 [ME142] ²	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.8.6 [ME143] ²	Each DX cooling system > 65 kbtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.9 [ME144] ²	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.3 [ME55] ²	HVAC equipment efficiency verified.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Mechanical Systems list for values.
C403.5.5 [ME113] ²	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.2 [ME39] ¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.7.1 [ME59] ¹	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.7.2 [ME115] ²	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.7.6 [ME141] ¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.7.4 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116] ¹	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME62] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.5.3.3 [ME124] ¹	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.5.3.4 [ME125] ¹	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.5.3.5 [ME126] ¹	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.1.4 [ME63] ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.3.3 [ME35] ¹	Hot gas bypass limited to: <= 240 kBtu/h - 50% >240 kBtu/h - 25%	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C404.2.1 [ME111] ²	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 92 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C408.2.2.1 [ME53] ¹	Air outlets and zone terminal devices have means for air balancing.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

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Data filename:
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01/05/24

FOR
CONSTRUCTION

PROJECT NAME:

**GUNTHER TOODY'S
REMODEL**

PROJECT ADDRESS:

**19502 E PARKER
SQUARE DR.
PARKER, CO 80134**

[illegible]

ENERGY CODE COMPLIANCE

M300

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.11.3 C403.11.3.1 C403.11.3.2 [ME123] ¹	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.8 [EL27] ¹	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.9.1 C405.9.2 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.10 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.1.1 [EL30] ²	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.11 C405.11.1 [EL31] ²	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C303.3 C408.2.5.3 [F18] ²	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.3.1 [F127] ¹	HVAC systems and equipment capacity does not exceed calculated loads.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.1 [F147] ¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.1.2 [F138] ¹	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.1.3 [F120] ¹	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.2 [F139] ²	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.2.1 C403.4.2.2 [F140] ¹	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.2.3 [F141] ¹	Systems include optimum start controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C404.3 [F111] ¹	Heat traps installed on supply and discharge piping of non-circulating systems.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C404.4 [F125] ²	All piping insulated in accordance with section details and Table C403.12.3.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C404.6.1 [F112] ¹	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.1 [F128] ¹	Commissioning plan developed by registered design professional or approved agency.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.3.1 [F131] ¹	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.3.2 [F110] ¹	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.3.3 [F132] ¹	Economizers have been tested to ensure proper operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.4 [F129] ¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.5 [F17] ²	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.5.1 [F143] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.5.2 [F130] ¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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FOR
CONSTRUCTION

PROJECT NAME:

GUNTHER TOODY'S
REMODEL

PROJECT ADDRESS:

19502 E PARKER
SQUARE DR.
PARKER, CO 80134

ISSUE RECORD

DATE	DESCRIPTION
05/17/2022	BLDG PERMIT SUBMITTAL

REVISIONS

REV.	DATE	DESCRIPTION
1	08/29/22	CLIENT CHANGES

ENERGY
CODE
COMPLIANCE

M301

SECTION 22 00 00 - PLUMBING GENERAL REQUIREMENTS

- PART 1 - GENERAL
1. THE TERM "TENANT," "TENANT'S CONSTRUCTION MANAGER," "OWNER," OR "OWNER'S CONSTRUCTION MANAGER" SHALL REFER TO GUNTHER TOODY'S.
 2. THE GENERAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM AND AS DESCRIBED IN THESE DRAWINGS.
 3. THE GENERAL CONTRACTOR SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS. EACH SUB-CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS ON SITE DURING THE CONSTRUCTION PROCESS.
 4. COORDINATE WORK AS REQUIRED WITH THE LANDLORD. THE GENERAL CONTRACTOR SHALL UTILIZE LANDLORD-REQUIRED CONTRACTORS AT THE GENERAL CONTRACTOR'S EXPENSE.
- PART 2 - PRODUCTS
1. PRODUCTS SHALL BE AS DESCRIBED IN THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.
- PART 3 - EXECUTION
1. UNLESS DIMENSIONS HAVE BEEN PROVIDED, THE DRAWINGS ARE DIAGRAMMATIC IN NATURE, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. THEY SHALL NOT BE SCALED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, TENANT VENDORS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CUTSHEETS AS REQUIRED.
 2. COMPLETE ALL WORK IN COMPLIANCE WITH THE CODES LISTED ON SHEET C-003 INCLUDING ALL LOCAL AMENDMENTS, ALL RELEVANT NFPA CODES AND STANDARDS AND SMACNA STANDARDS.
 - A. VERIFY ALL CODE REQUIREMENTS AND LOCAL AMENDMENTS WITH THE AUTHORITY HAVING JURISDICTION PRIOR TO BID.
 - B. WHEN THERE IS A DISCREPANCY BETWEEN THE ADOPTED CODES AND THESE DRAWINGS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
 3. COORDINATE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND ARRANGE ALL INSPECTIONS AS REQUIRED.
 4. MAINTAIN A CLEAN CONSTRUCTION SITE DURING CONSTRUCTION. CLEAN SCRAP MATERIAL AND REMOVE FROM SITE DAILY AND MAINTAIN WORKING AREA IN AN ORDERLY FASHION.
 5. PROVIDE SUBMITTALS AS NOTED IN THESE SPECIFICATIONS AND AS REQUESTED BY THE TENANT'S CONSTRUCTION MANAGER.
 - A. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE TENANT'S CONSTRUCTION MANAGER.
 - B. SHOP DRAWINGS SHALL BE SUBMITTED TO ALLOW FOR FIVE BUSINESS DAYS OF REVIEW TIME.
 6. PROVIDE REQUESTS FOR INFORMATION TO THE TENANT'S CONSTRUCTION MANAGER.
 - A. REQUESTS FOR INFORMATION SHALL PROVIDE A DETAILED DESCRIPTION OF THE SITE CONDITION OR DISCREPANCY AND THE CONTRACTORS PROPOSED REMEDY.
 - B. REQUESTS FOR INFORMATION SHALL BE SUBMITTED TO ALLOW FOR FIVE BUSINESS DAYS OF REVIEW TIME.
 7. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT'S CONSTRUCTION MANAGER WITH A BOUND RECORD OF ALL PLUMBING EQUIPMENT UTILIZED IN THE JOB. THE GENERAL CONTRACTOR SHALL PROVIDE THE SAME INFORMATION ON A COMPACT DISC. THE BINDER SHALL CONTAIN:
 - A. COVER SHEET INDICATING THE PROJECT NAME, ADDRESS AND TURNOVER DATE.
 - B. COMPANY NAME AND CONTACT INFORMATION OF THE CONTRACTORS UTILIZED FOR THE PLUMBING SCOPE OF WORK.
 - C. CUTSHEETS, INSTALLATION MANUALS AND MAINTENANCE REQUIREMENTS FOR ALL PLUMBING EQUIPMENT.
 8. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT'S CONSTRUCTION MANAGER A FULL SET OF DRAWINGS WITH ANY DEVIATIONS FROM THE DRAWINGS INDICATED IN RED INK.

(END OF SECTION 22 00 00)

SECTION 22 05 23 - VALVES

- PART 1 - GENERAL
1. SECTION REQUIREMENTS
 - A. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. BALL VALVES
 - A. CWP RATING: 400 PSIG
 - B. BODY DESIGN: TWO-PIECE BRONZE. THREADED ENDS WITH PTFE SEATS, BRONZE OR BRASS STEM, CHROME-PLATED BRASS BALL AND SOLDERED ENDS.
 - C. PORT: REGULAR
 2. CHECK VALVES
 - A. CWP RATING: 200 PSIG
 - B. BODY DESIGN: CLASS 125 SWING CHECK VALVE WITH BRONZE DISK. HORIZONTAL FLOW, CONSTRUCTED OF ASTM B 62 BRONZE, PTFE DISK AND SOLDERED ENDS.
 3. PLUG VALVES
 - A. CWP RATING: 200 PSIG
 - B. BODY DESIGN: CLASS 125, LUBRICATED PLUG VALVE CONSTRUCTED OF CAST IRON WITH LUBRICATION-SEALING SYSTEM, REGULAR PATTERN, CAST IRON PLUG WITH SEALANT GROOVE AND THREADED ENDS.
- PART 3 - EXECUTION
1. GENERAL
 - A. UTILIZE BALL AND CHECK VALVES IN DOMESTIC WATER PIPING WHERE SHOWN ON THE PLANS AND AS REQUIRED BY THE CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
 - B. UTILIZE PLUG VALVES IN NATURAL GAS PIPING WHERE SHOWN ON THE PLANS AND AS REQUIRED BY THE CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
 - C. DO NOT ATTEMPT TO REPAIR DEFECTIVE VALVES. REPLACE WITH NEW VALVES.
 - D. IF VALVES WITH CWP RATINGS ARE UNAVAILABLE, THE SAME TYPES OF VALVES WITH HIGHER CWP RATINGS MAY BE SUBSTITUTED.
 2. INSTALLATION:
 - A. INSTALL VALVES WITH UNIONS TO ALLOW SERVICE AND MAINTENANCE.
 - B. LOCATE VALVES FOR EASY ACCESS AND PROVIDE SEPARATE SUPPORT WHERE NECESSARY.
 - C. INSTALL VALVES IN HORIZONTAL PIPING WITH STEM AT OR ABOVE CENTER OF PIPE.
 - D. INSTALL VALVES IN POSITION TO ALLOW FULL STEM MOVEMENT.
 - E. INSTALL SWING CHECK VALVES FOR PROPER DIRECTION OF FLOW IN HORIZONTAL POSITION WITH HINGE PIN LEVEL.

(END OF SECTION 22 05 23)

SECTION 22 07 19 - PLUMBING PIPING INSULATION

- PART 1 - GENERAL
1. QUALITY ASSURANCE: FLAME-SPREAD INDEX OF 25 OR LESS, AND A SMOKE DEVELOPED INDEX OF 50 OR LESS IN ACCORDANCE WITH ASTM E 84.
 2. SECTION REQUIREMENTS
 - A. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. INSULATION MATERIALS
 - A. GLASS FIBER PIPE INSULATION: COMPLY WITH ASTM C 547, TYPE I, GRADE A WITH FACTORY APPLIED JACKET WITH VAPOR RETARDER.
 - B. POLYOLEFIN PIPE INSULATION: UNICELLULAR POLYETHYLENE PIPE INSULATION, COMPLY WITH ASTM C 534 OR ASTM C 1427, TYPE I, GRADE 1.
 2. PROTECTIVE SHIELDING PIPE COVERS: MANUFACTURED PLASTIC WRAPS FOR COVERING PLUMBING FIXTURE HOT AND COLD WATER SUPPLIES AND TRAP AND DRAIN PIPING. COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS)
- PART 3 - EXECUTION
1. PREPARATION: CLEAN AND DRY SURFACES. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION
 2. GENERAL
 - A. INSTALL INSULATION ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - B. INSTALL INSULATION AND ACCESSORIES AND FINISHES WITH SMOOTH, STRAIGHT AND EVEN SURFACES; FREE OF VOIDS THROUGHOUT THE LENGTH OF PIPE INCLUDING FITTINGS, VALVES AND SPECIALTIES.
 - C. INSTALL INSULATION OVER FITTINGS, VALVES, STRAINERS, FLANGES, UNIONS AND OTHER SPECIALTIES UNLESS NOTED OTHERWISE.
 - D. INSULATE PIPE ELBOWS USING PRE-FORMED FITTING INSULATION OR MITERED FITTINGS.
 - E. INSTALL VAPOR BARRIERS ON ALL COLD WATER AND CONDENSATE SYSTEMS.
 - F. INSTALL INSULATION WITH LONGITUDINAL SEAMS AT TOP OF HORIZONTAL RUNS, LONGITUDINAL SEAMS AND END JOINTS SHALL BE TIGHT. BOND SEAMS AND JOINTS WITH ADHESIVE RECOMMENDED BY INSULATION MANUFACTURER TO MAINTAIN VAPOR BARRIER INTEGRITY.
 - G. WHERE VAPOR BARRIER IS REQUIRED, SEAL JOINTS, SEAMS AND PENETRATIONS IN INSULATION AT HANGERS, SUPPORTS, ANCHORS AND OTHER PROJECTIONS WITH VAPOR-BARRIER MASTIC.
 - H. COVER JOINTS AND SEAMS WITH TAPE, ACCORDING MANUFACTURER'S INSTRUCTIONS TO MAINTAIN ALL VAPOR SEALS.
 - I. APPLY ADHESIVES, MASTICS AND SEALANTS AT MANUFACTURER'S RECOMMENDED COVERAGE RATE AND THICKNESS.
 - J. CUT INSULATION IN A MANNER TO AVOID COMPRESSING INSULATION MORE THAN 75 PERCENT ITS NOMINAL THICKNESS.
 - K. PROVIDE A ONE-PIECE ESCUTCHEONS INSULATION AT ALL PIPE HANGERS AND SUPPORTS.
 3. PENETRATIONS
 - A. INSULATION AT ABOVE GROUND EXTERIOR WALL PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH WALL PENETRATIONS.
 - B. INSULATION AT INTERIOR WALL AND PARTITION PENETRATIONS (NOT FIRE RATED): INSTALL INSULATION CONTINUOUSLY THROUGH WALL AND PARTITIONS.
 - C. INSULATION AT FLOOR PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH FLOOR PENETRATIONS.
 4. INDOOR PIPING INSULATIONS THICKNESS REQUIREMENTS
 - A. DOMESTIC HOT, COLD & RECIRCULATION WATER: REFER TO THE INSULATION SCHEDULE FOR PIPE INSULATION THICKNESS.
 - B. CHILLED / HOT WATER FOR HVAC: REFER TO THE INSULATION SCHEDULE FOR PIPE INSULATION THICKNESS.
 - C. ROOF DRAIN AND OVERFLOW DRAIN PIPING AND BODIES: 1" THICK.
 - D. EXPOSED SANITARY DRAINS, DOMESTIC WATER AND SLOPS FOR PLUMBING FIXTURES FOR PEOPLE WITH DISABILITIES: 1/2" THICK.
 - E. SANITARY WASTE PIPING WITH HEAT TRACE: 2" THICK.

(END OF SECTION 22 07 19)

SECTION 22 11 16 - DOMESTIC WATER PIPING

- PART 1 - GENERAL
1. PERFORMANCE REQUIREMENTS: MINIMUM PRESSURE REQUIREMENTS FOR WATER PIPING ARE AS FOLLOWS
 - A. SERVICE WATER ENTRANCE: 100 PSIG
 - B. DOMESTIC WATER PIPING: 80 PSIG
 2. SECTION REQUIREMENTS
 - A. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. GENERAL
 - A. POTABLE-WATER PIPING AND COMPONENTS SHALL COMPLY WITH NSF 14 AND NSF 61 ANNEX G.
 - B. COMPLY WITH NSF STANDARD 372 FOR LOW LEAD.
 2. COPPER TUBE AND FITTINGS
 - A. HARD COPPER TUBE: ASTM B 88, TYPE L WATER TUBE, DRAWN TEMPER.
 - B. CAST COPPER, SOLDER-JOINT FITTINGS: ASME B16.18, PRESSURE FITTINGS.
 - C. WROUGHT COPPER, SOLDER JOINT FITTINGS: ASME B16.22, WROUGHT-COPPER PRESSURE FITTINGS.
 - D. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT ENDS.
 - E. COPPER UNIONS: MSS SP-122, CAST COPPER-ALLOY, HEXAGONAL STOCK BODY WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES AND SOLDER-JOINT OR THREADED ENDS.
 3. DIELECTRIC FITTINGS
 - A. DIELECTRIC UNIONS: ASSE 1079 WITH A PRESSURE RATING OF 125 PSIG MINIMUM AT 180 DEG F WITH SOLDER-JOINT COPPER ALLOY AND THREADED FERROUS END CONNECTIONS.
- PART 3 - EXECUTION
1. PIPING INSTALLATION
 - A. DRAWING PLANS, SCHEMATIC AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DOMESTIC WATER PIPING ROUTING. COORDINATE INSTALLATION WITH WORK OF ALL OTHER TRADES. ACCOMMODATE HANGERS, INSULATION AND OTHER REQUIREMENTS AS REQUIRED.
 - B. INSTALL DOMESTIC WATER PIPING LEVEL AND PLUMB. PIPING SHALL BE FREE OF SAGS AND BENDS.
 - C. USE ECCENTRIC REDUCER FITTINGS TO MAKE REDUCTIONS IN PIPE SIZES. INSTALL FITTINGS WITH LEVEL SIDE DOWN.
 - D. ROUGH-IN DOMESTIC WATER PIPING FOR WATER-METER INSTALLATION ACCORDING TO THE UTILITY COMPANY'S REQUIREMENTS.
 - E. INSTALL PIPING CONCEALED FROM VIEW AND PROTECTED FROM PHYSICAL CONTACT BY BUILDING OCCUPANTS UNLESS NOTED OTHERWISE.
 - F. ALL EXPOSED PIPING SHALL BE INSTALLED AT RIGHT ANGLES AND PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS NOTED OTHERWISE.
 - G. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.
 - H. INSTALL PIPELINES, UNIONS AND VALVES WITH PRESSURES THE SAME AS OR HIGHER THAN THE SYSTEM PRESSURE RATING.
 - I. INSTALL UNIONS IN COPPER TUBING AT FINAL CONNECTION TO EACH WATER HEATER AND SPECIALTY.
 - J. INSTALL ONE-PIECE ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS AND CEILINGS.
 - K. WHEN INSTALLING PIPING ADJACENT TO EQUIPMENT, ALLOW SPACE FOR SERVICE AND MAINTENANCE.
 2. JOINT CONSTRUCTION
 - A. REAM ENDS OF PIPE AND TUBES AND REMOVE BURRS.
 - B. REMOVE SCALE, SLAG, DIRT AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPES.
 - C. SOLDER JOINTS FOR COPPER TUBING.
 3. DIELECTRIC FITTING INSTALLATION
 - A. INSTALL DIELECTRIC FITTINGS IN PIPING AT CONNECTIONS OF DISSIMILAR METAL PIPING AND TUBING.
 4. HANGER AND SUPPORT INSTALLATION
 - A. INSTALL HANGERS AND SUPPORTS AS REQUIRED BY THE PLUMBING CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION AND AS RECOMMENDED BY THE PIPE MANUFACTURER.
 5. INSPECTING AND CLEANING
 - A. INSPECT AND TEST PIPING SYSTEMS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
 - B. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION.

(END OF SECTION 22 11 16)

SECTION 22 11 23 - NATURAL-GAS PIPING

- PART 1 - GENERAL
1. COMPLY WITH NFPA 54 AND THE FUEL-GAS CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION FOR THE INSTALLATION AND PURGING OF NATURAL-GAS PIPING.
 2. SECTION REQUIREMENTS
 - A. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. PERFORMANCE REQUIREMENTS
 - A. PIPING AND VALVES: 100 PSIG MINIMUM UNLESS NOTED OTHERWISE.
 2. PIPES, TUBES AND FITTINGS
 - A. STEEL PIPE: ASTM A 53A 53M, BLACK STEEL, SCHEDULE 40, TYPE S, GRADE B.
 - B. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN.
 - C. WROUGHT-STEEL WELDING FITTINGS: ASTM A 234A 234M FOR BUTT WELDING AND SOCKET WELDING.
 - D. UNIONS: ASME B16.39, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRON SEAT, GROUND JOINT AND THREADED ENDS.
 3. BRONZE PLUG VALVES
 - A. BRONZE BODY COMPLYING WITH ASTM B 584 WITH A BRONZE PLUG WITH SQUARE HEAD WITH TAMPERPROOF FEATURE WHERE EASILY ACCESSIBLE. 125 PSIG PRESSURE CLASS, SUITABLE FOR NATURAL-GAS SERVICE.
 4. GAS VALVES
 - A. CAST IRON OR BRONZE BODY COMPLYING WITH ASTM A 126, CLASS B WITH A BRONZE PLUG WITH SQUARE HEAD WITH TAMPERPROOF FEATURE WHERE EASILY ACCESSIBLE. 125 PSIG PRESSURE CLASS. SUITABLE FOR NATURAL-GAS SERVICE.
 5. LINE PRESSURE REGULATORS
 - A. COMPLY WITH ANSI Z21.180, SINGLE STAGE PRESSURE REGULATOR SUITABLE FOR NATURAL GAS WITH STEEL JACKET AND CORROSION RESISTANT COMPONENTS. PROVIDED WITH ELEVATION COMPENSATOR AND FACTORY-MOUNTED ATMOSPHERIC VENT. REFER TO PLANS FOR INLET PRESSURE, OUTLET PRESSURE AND FLOW VOLUME.
 6. APPLIANCE PRESSURE REGULATORS
 - A. COMPLY WITH ANSI Z21.18, SINGLE STAGE PRESSURE REGULATOR SUITABLE FOR NATURAL GAS WITH STEEL JACKET AND CORROSION RESISTANT COMPONENTS. PROVIDED WITH ELEVATION COMPENSATOR AND FACTORY-MOUNTED ATMOSPHERIC VENT. REFER TO PLANS FOR INLET PRESSURE, OUTLET PRESSURE AND FLOW VOLUME.
 7. DIELECTRIC FITTINGS
 - A. DIELECTRIC UNIONS: ASSE 1079 WITH A PRESSURE RATING OF 125 PSIG MINIMUM AT 180 DEG F WITH SOLDER-JOINT COPPER ALLOY AND THREADED FERROUS END CONNECTIONS.
- PART 3 - EXECUTION
1. PIPING INSTALLATION
 - A. DRAWING PLANS, SCHEMATIC AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF NATURAL-GAS PIPING ROUTING. COORDINATE INSTALLATION WITH WORK OF ALL OTHER TRADES. ACCOMMODATE HANGERS, INSULATION AND OTHER REQUIREMENTS AS REQUIRED.
 - B. INSTALL FITTINGS AS REQUIRED FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. USE ECCENTRIC REDUCER FITTINGS TO MAKE REDUCTIONS IN PIPE SIZES. INSTALL FITTINGS WITH LEVEL SIDE DOWN.
 - C. INSTALL PIPING FREE OF SAGS AND BENDS.
 - D. INSTALL NATURAL-GAS PIPING AT UNIFORM GRADE OF 2 PERCENT DOWN TOWARD DRIP AND SEDIMENT TRAPS.
 - E. INSTALL PIPING CONCEALED FROM VIEW AND PROTECTED FROM PHYSICAL CONTACT BY BUILDING OCCUPANTS UNLESS NOTED OTHERWISE.
 - F. ALL EXPOSED PIPING SHALL BE INSTALLED AT RIGHT ANGLES AND PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS NOTED OTHERWISE.
 - G. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.
 - H. DRIPS AND SEDIMENT TRAPS: INSTALL DRIPS AT POINTS WHERE CONDENSATE MAY COLLECT. LOCATE WHERE ACCESSIBLE TO PERMIT CLEANING AND EMPTYING. DO NOT INSTALL WHERE CONDENSATE IS SUBJECT TO FREEZING.
 - I. EXTEND RELIEF VENT CONNECTIONS FOR REGULATORS TO OUTDOORS AND TERMINATE WITH WEATHERPROOF VENT CAP.
 - J. INSTALL UNIONS IN PIPES NPS 2 AND SMALLER, ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT.
 - K. DO NOT USE NATURAL-GAS PIPING AS GROUNDING ELECTRODE.
 - L. INSTALL STRAINER ON INLET OF EACH LINE-PRESSURE REGULATOR.
 - M. INSTALL ONE-PIECE ESCUTCHEONS FOR PIPING PENETRATING WALLS AND CEILINGS.
 - N. PAINT EXPOSED NATURAL-GAS PIPING WITH PRIMER AND ONE FINAL COAT OF EXTERIOR ENAMEL. COLOR SHALL MATCH SURROUNDING FINISHES.
 2. VALVE INSTALLATION
 - A. INSTALL MANUAL GAS SHUTOFF VALVE FOR EACH GAS APPLIANCE.
 - B. ALLOW MAINTENANCE ACCESS FOR ALL VALVES AND REGULATORS.
 - C. LOCATE VALVES FOR EASY ACCESS, PROTECTED FROM DAMAGE.
 3. HANGER AND SUPPORT INSTALLATION
 - A. INSTALL HANGERS AND SUPPORTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND AS RECOMMENDED BY THE PIPE MANUFACTURER.
 4. CONNECTIONS
 - A. CONNECT TO THE UTILITY'S GAS MAIN ACCORDING TO THE UTILITY'S PROCEDURES AND REQUIREMENTS.
 - B. INSTALL NATURAL-GAS PIPING ELECTRICALLY CONTINUOUS, AND BONDED TO GAS APPLIANCE EQUIPMENT GROUNDING CONDUCTOR OF THE CIRCUIT POWERING THE APPLIANCE ACCORDING TO NFPA 70.
 - C. CONNECT PIPING TO APPLIANCES USING MANUAL GAS SHUTOFF VALVES AND UNIONS. INSTALL VALVE WITHIN 72 INCHES OF EQUIPMENT. INSTALL UNION BETWEEN THE VALVE AND EQUIPMENT.
 - D. SEDIMENT TRAPS: INSTALL TEE FITTING WITH CAPPED NIPPLE IN BOTTOM TO FORM DRIP, AS CLOSE AS PRACTICAL TO INLET OF EACH APPLIANCE.

(END OF SECTION 22 11 23)

SECTION 22 13 16 - SANITARY WASTE AND VENT PIPING

- PART 1 - GENERAL
1. PERFORMANCE REQUIREMENTS: MINIMUM PRESSURE REQUIREMENTS FOR SOIL, WASTE AND VENT PIPING: 10-FOOT HEAD OF WATER.
 2. SECTION REQUIREMENTS
 - A. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. GENERAL
 - A. COMPLY WITH THE REQUIREMENTS IN THE PIPING SCHEDULE FOR APPLICATIONS OF PIPE AND TUBE FOR SPECIFIC SERVICES AND SERVICE LOCATIONS
 2. HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS
 - A. COMPLY WITH CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK."
 - B. PIPE AND FITTINGS: ASTM A 74 SERVICE CLASS.
 - C. GASKETS: ASTM C 564 RUBBER.
 3. PVC PIPE AND FITTINGS
 - A. COMPLY WITH NSF-1, "PLASTICS PIPING SYSTEMS COMPONENTS AND RELATED MATERIALS" FOR PLASTIC PIPING COMPONENTS.
 - B. SOLID WALL SCHEDULE 40 PVC PIPE: ASTM D 2665, DRAIN, WASTE AND VENT.
 - C. PVC SOCKET FITTINGS: ASTM D 2665, MADE TO ASTM D 3311, DRAIN, WASTE AND VENT PATTERNS AND TO FIT SCHEDULE 40 PIPE.
- PART 3 - EXECUTION
1. PIPING INSTALLATION
 - A. DRAWING PLANS, SCHEMATIC AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF SANITARY WASTE AND VENT PIPING ROUTING. COORDINATE INSTALLATION WITH WORK OF ALL OTHER TRADES. ACCOMMODATE HANGER OTHER REQUIREMENTS AS REQUIRED.
 - B. INSTALL PIPING IN CONCEALED LOCATIONS UNLESS NOTED OTHERWISE.
 - C. INSTALL STRIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.
 - D. INSTALL PIPING AT INDICATED SLOPES.
 - E. INSTALL PIPING FREE OF SAGS AND BENDS.
 - F. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS AS REQUIRED PER THE PREVAILING PLUMBING CODE.
 - G. PROVIDE 1/4" PER FOOT SLOPE TO ALL HORIZONTAL SANITARY WASTE PIPING DOWNWARD IN THE DIRECTION OF FLOW.
 - H. PROVIDE 1/10" PER FOOT SLOPE TO VENT PIPING DOWN TOWARDS FIXTURE VENTS.
 - I. INSTALL ALL ELBOWS WHERE INDICATED ON THE PLANS AND AS REQUIRED PER THE LOCAL AUTHORITY HAVING JURISDICTION.
 - J. INSTALL ONE-PIECE ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS AND CEILINGS.
 2. JOINT CONSTRUCTION
 - A. JOIN HUB-AND-SPIGOT, CAST IRON SOIL PIPING WITH GASKET JOINTS ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK."
 - B. JOIN PVC PIPING ACCORDING TO ASTM D 2855 AND ASTM 2 2665 APPENDICES.
 3. HANGER AND SUPPORT INSTALLATION
 - A. INSTALL HANGERS AND SUPPORTS AS REQUIRED BY THE PLUMBING CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION AND AS RECOMMENDED BY THE PIPE MANUFACTURER.
 4. CONNECTIONS
 - A. PLUMBING FIXTURES AND EQUIPMENT: CONNECT WASTE PIPING IN SIZES INDICATED, BUT NOT SMALLER THAN REQUIRED BY PLUMBING CODE.
 - B. PLUMBING FIXTURES AND EQUIPMENT: CONNECT ATMOSPHERIC VENT PIPING IN SIZES INDICATED, BUT NOT SMALLER THAN REQUIRED BY PLUMBING CODE.
 5. INSPECTING AND CLEANING
 - A. INSPECT AND TEST PIPING SYSTEMS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

(END OF SECTION 22 13 16)

SECTION 22 42 16 - PLUMBING FIXTURES

- PART 1 - GENERAL
1. COMPLY WITH THE FOLLOWING STANDARDS
 - A. VITREOUS-CHINA FIXTURES: ASME A112.19.2
 - B. CAST-IRON FIXTURES: ASME A112.6.3
 - C. PVC FIXTURES: ASME A112.6.3
 - D. FLUSH VALVES: ASME A112.19.5
 2. COMPLY WITH ALL FLOW REQUIREMENTS SET FORTH BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 3. SECTION REQUIREMENTS
 - A. SUBMITTALS: PROVIDE SUBMITTALS FOR ALL PLUMBING FIXTURES.
- PART 2 - PRODUCTS
1. AS NOTED IN THE PLUMBING FIXTURE SCHEDULE
- PART 3 - EXECUTION
1. INSTALLATION
 - A. INSTALL FIXTURES LEVEL AND PLUMB. INSTALL AT HEIGHTS COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT WHERE REQUIRED.
 - B. INSTALL WALL CARRIERS AND ACCESSORIES AS NOTED IN THE SCHEDULE REMARKS AND AS REQUIRED. WHERE NO CARRIERS ARE INDICATED, PROVIDE ADDITIONAL SUPPORT BUILT INTO WALL.
 - C. INSTALL ONE-PIECE ESCUTCHEONS AT ALL PIPING WALL PENETRATIONS.
 - D. INSTALL PROTECTIVE SHIELDING PIPE COVERS AND ENCLOSURES ON EXPOSED PIPING OF ACCESSIBLE LAVATORIES.
 - E. INSTALL FLOOR-MOUNTED FIXTURES TO BUILDING SUBSTRATE.
 - F. SEAL ALL JOINTS BETWEEN FIXTURES/ESCUTCHEONS AND THE WALL/FLOOR USING SANITARY-TYPE, ONE-PART, MILDEW-RESISTANT SILICONE SEALANT.
 - G. INSTALL FLOOR DRAINS, FLOOR SINKS AND TRENCH DRAINS FLUSH WITH FINISHED FLOOR UNLESS NOTED OTHERWISE.
 - H. INSTALL FLASHING COLLARS OR FLANGE SO NO LEAKAGE OCCURS BETWEEN DRAIN AND ADJOINING FLOORING. MAINTAIN INTEGRITY OF WATERPROOF MEMBRANES WHERE PENETRATED.
 2. CONNECTIONS
 - A. CONNECT FIXTURES WITH WATER SUPPLIES, QUARTER-TURN STOPS, BRAIDED STAINLESS RISERS, TRAPS, SANITARY AND WASTE PIPING AS REQUIRED.
 - B. PROVIDE QUARTER-TURN ANGLE STOPS IN AN ACCESSIBLE LOCATION BELOW THE FIXTURE, WHERE STOPS ARE NOT USED (FLUSH VALVE WATER CLOSETS, URINALS, MOP SINKS, ETC.) PROVIDE ISOLATION VALVE IN AN ACCESSIBLE LOCATION ABOVE THE CEILING AT THE FIXTURE.
 - C. REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION LOCATIONS. USE SIZE FITTINGS AS REQUIRED TO MATCH FIXTURES.
 3. ADJUSTING
 - A. OPERATE AND ADJUST FIXTURES AND CONTROLS TO ACHIEVE PROPER FLOW AND FUNCTION. REPLACE BATTERIES AND DEFECTIVE ITEMS PRIOR TO TURNOVER.

(END OF SECTION 22 42 16)

GENERAL NOTES

- A. GENERAL NOTES APPLY TO ALL PLUMBING SHEETS.
- B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AHI, LOCAL HEALTH DEPARTMENT STANDARDS, THE PLUMBING CODE AND ANY INTERIM AMENDMENTS AT THE TIME OF PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. REFER TO THE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
- C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER AND THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E. DRAWINGS FOR THE PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO THE MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, ACCESSORIES AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
- G. PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO QUARTER-TURN STOP VALVES AT EACH FIXTURE.
- H. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.
- I. WHERE THE WATER OR GAS SUPPLY LINE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
- J. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
- K. INSULATE THE DOMESTIC HOT AND COLD WATER PIPING, CONDENSATE DRAINAGE PIPING AND STORM PIPING PER THE SPECIFICATIONS AND PER THE PLUMBING DETAILS.
- L. PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE AN ACCESSIBLE DIRT LEG, AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
- M. PLUMBING FIXTURES, ACCESSORIES AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
- N. REQUIREMENT FOR CORE DRILLING AND SAW CUTTING FLOOR SHALL BE REVIEWED AND COORDINATED WITH THE BUILDING CORE AND SHELL TEAM.
- O. PRIOR TO PUNCH SITE VISIT, GC SHALL CONDUCT FLUSHING OF ALL DOMESTIC WATER, SANITARY AND GREASE LINES.
- P. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- Q. PROVIDE TRAPS ON INDIRECT DRAINS AS REQUIRED BY THE PLUMBING CODE AND THE LOCAL AHI.

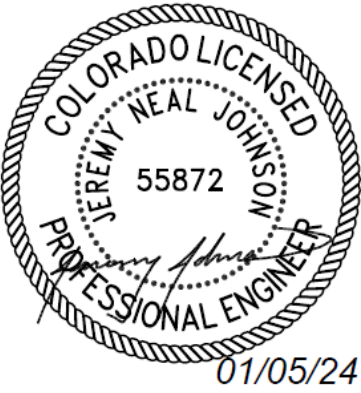
SECTION 22 34 00 - DOMESTIC WATER HEATER, NATURAL GAS

- PART 1 - GENERAL
1. ENERGY REQUIREMENTS
 - A. COMPLY WITH ALL REQUIREMENTS OF THE ENERGY CODE, AND ALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 2. SECTION REQUIREMENTS
 - A. SUBMITTALS: PROVIDE SUBMITTALS FOR ALL GAS-FIRED WATER HEATERS.
- PART 2 - PRODUCTS
1. FACTORY INSTALLED OPTIONS
 - A. 150 PSI PRESSURE RATING, NSF 61 ANNEX G COMPLIANT INTERIOR FINISH, EXTENDING INTO AND THROUGH TANK FITTINGS AND OUTLETS. PROVIDE WATER HEATER GAS-FIRED BURNER, AUTOMATIC IGNITION, DRAIN VALVE, INSULATION, STEEL JACKET, ADJUSTABLE THERMOSTAT, HIGH TEMPERATURE LIMIT, LOW-WATER CUTOFF AND TEMPERATURE-AND-PRESSURE RELIEF VALVES.
 2. CHARACTERISTICS
 - A. REFER TO WATER HEATER SCHEDULE FOR CAPACITY, RECOVERY, POWER DEMAND, ELECTRICAL CHARACTERISTICS, MANUFACTURER AND MODEL.
- PART 3 - EXECUTION
1. INSTALLATION
 - A. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
 - B. INSTALL WATER HEATER LEVEL AND PLUMB.
 - C. PROVIDE CORROSION RESISTANT DRAIN PAN AND ALL OTHER ACCESSORIES AS NOTED IN THE WATER HEATER SCHEDULE AND DETAILS.
 - D. ARRANGE UNIT SUCH THAT CONTROLS AND DEVICES THAT REQUIRE SERVICING ARE ACCESSIBLE.
 - E. INSTALL COMBINATION TEMPERATURE-AND-PRESSURE RELIEF VALVES AND EXTEND COPPER PIPING AS NOTED IN THE WATER HEATER DETAIL.
 - F. INSTALL DRAIN PIPING AS NOTED IN THE WATER HEATER DETAIL.

(END OF SECTION 22 34 00)



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**FOR
CONSTRUCTION**

PROJECT NAME:

**GUNTHER TOODY'S
REMODEL**

PROJECT ADDRESS:

**19502 E PARKER
SQUARE DR.
PARKER, CO 80134**

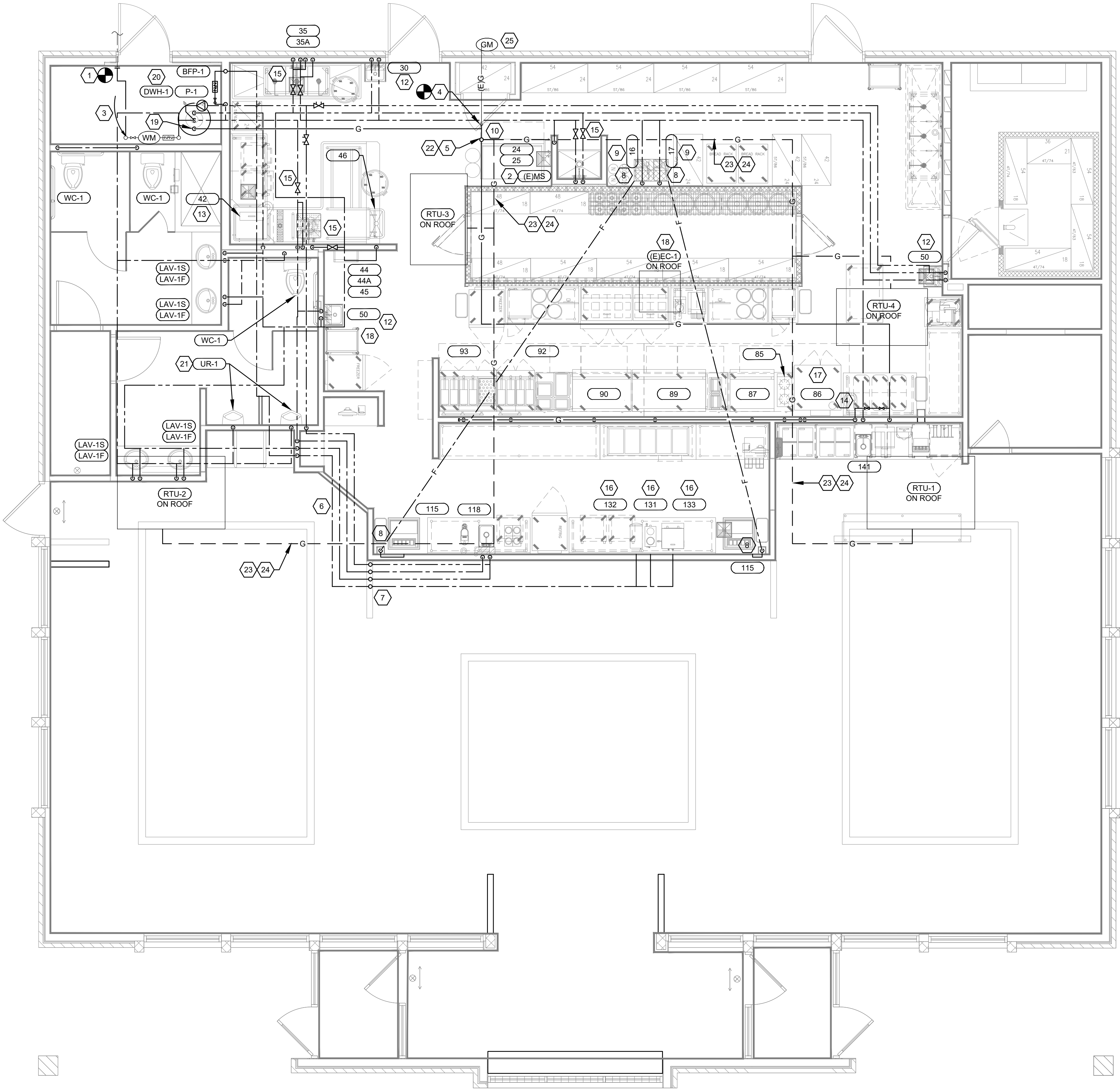
ISSUE RECORD

DATE	DESCRIPTION
05/17/2022	BLDG PERMIT SUBMITTAL

REV.	DATE	DESCRIPTION
1	08/29/22	CLIENT CHANGES

**PLUMBING
SPECIFICATIONS**

P010



1 PLUMBING SUPPLY PLAN
1/4" = 1'-0"

CODED NOTES

- CONNECT TO THE EXISTING 2" DOMESTIC WATER LINE UNDER SLAB. EXTEND PIPING UNDER SLAB AS SHOWN. FIELD-VERIFY EXACT LOCATION OF SERVICE.
- EXISTING PLUMBING FIXTURE TO REMAIN. CLEAN AND REPAIR AS NECESSARY TO MAKE "LIKE NEW" CONDITION.
- RELOCATE THE EXISTING DOMESTIC WATER METER AND BACKFLOW PREVENTER TO LOCATON SHOWN.
- CONNECT TO THE EXISTING NATURAL GAS SERVICE WITH UPSTREAM METER. PIPING SHALL BE NO SMALLER THAN AS NOTED ON THE NATURAL GAS DIAGRAM.
- NATURAL GAS PIPING UP TO ROOF FOR NEW MECHANICAL EQUIPMENT. REFER TO THE NATURAL GAS DIAGRAM FOR MORE INFORMATION.
- PROVIDE UNDER SLAB PIPING FOR BEVERAGE AREA PIPING AS SHOWN.
- PIPING SHALL BE CONCEALED IN THE FRAMED WALLS OF THE BEVERAGE AREA. SHOWN OFFSET ON PLANS FOR CLARITY.
- PROVIDE FILTERED WATER TO THE SODA MACHINES, ROUTED WITH THE SODA BUNDLE AS SHOWN. COORDINATE EXACT REQUIREMENTS WITH THE SODA VENDOR AS REQUIRED.
- PROVIDE ROUGH-IN CONNECTIONS TO THE BAG-IN-BOX AND CARBONATOR AT 72" A.F.F. PIPING SHALL BE ROUTED FROM ABOVE, EXPOSED AND HELD TIGHT TO THE WALK-IN PANEL WALL. COORDINATE WITH THE EQUIPMENT SUPPLIER AS REQUIRED.
- PROVIDE ROUGH-IN CONNECTION FOR THE WATER FILTER SERVING THE ICE MACHINE AT 66" A.F.F. THE GENERAL CONTRACTOR SHALL INSTALL THE FILTER ASSEMBLY FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER. PROVIDE 3/4" BRAIDED STAINLESS STEEL HOSE FROM THE FILTER ASSEMBLY AND MAKE THE FINAL CONNECTION TO THE ICE MAKER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE ALL REQUIREMENTS WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- PROVIDE A BALANCE VALVE IN THE LOCATION SHOWN. ADJUST THE SETTING SO EQUAL FLOW IS OBTAINED FROM EACH BRANCH OF THE RECIRCULATION LINE.
- PROVIDE ASSE 1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B ON WATER SUPPLY TO HAND SINK. PROVIDE ANGLE STOPS BELOW SINK. FASTEN MIXING VALVE TO WALL AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A MAXIMUM DISCHARGE TEMPERATURE OF 110°F.
- PROVIDE ROUGH-IN FOR THE DISHWASHER AT 62" A.F.F. PROVIDE 3/4" BRAIDED STAINLESS STEEL HOSE FROM THE STOP VALVE TO THE EQUIPMENT AND MAKE FINAL CONNECTION. PROVIDE AN ACCESSIBLE WATER HAMMER ARRESTOR ABOVE THE CEILING TO SERVE THE EQUIPMENT.
- MOUNT GAS PIPING SHUTOFF VALVES ON THE WALL IN APPROXIMATE LOCATION SHOWN AT 8'-0" A.F.F. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PER DETAIL 5/SHEET P300. UPON ACTIVATION OF THE HOOD'S INTEGRAL FIRE SUPPRESSION SYSTEM, THE GAS SUPPLY SHALL BE CLOSED.
- PROVIDE ACCESSIBLE ISOLATION VALVES IN THE SUPPLY LINE TO THE FIXTURES AS SHOWN.
- PROVIDE 1/4" PIPING THROUGH THE ANGLE STOP VALVE TO THE EQUIPMENT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- MAKE CONNECTIONS TO THE COOK-LINE EQUIPMENT AS NOTED IN THE KES DRAWINGS. TYPICAL.
- PIPING FROM THE EXISTING EVAPORATIVE COOLER TO REMAIN. FIELD-VERIFY EXACT CONNECTION LOCATION.
- FIELD-VERIFY SIZE OF EXISTING GAS PIPING. PIPING SIZE SHALL MEET OR EXCEED THE VALUE INDICATED IN THE NATURAL GAS SUPPLY DIAGRAM. REPLACE AS NECESSARY.
- PROVIDE DOMESTIC WATER HEATER WITH EXPANSION TANK (ET-1) PER DETAIL 6/SHEET P-300.
- PROVIDE A WATER HAMMER ARRESTOR ON THE DROP THE THE URINAL IN AN ACCESSIBLE LOCATION ABOVE THE CEILING.
- EXTEND THE GAS PIPING ABOVE THE CEILING, AND ON ROOF AS SHOWN AND CONNECT TO THE NEW COOKING APPLIANCES AND MECHANICAL EQUIPMENT. DISCONNECT AND REMOVE THE EXISTING NATURAL GAS PIPING ABOVE THE CEILING AND ON THE ROOF SERVING ANY EQUIPMENT BEING REMOVED.
- PAINT THE EXPOSED GAS PIPING WITH PRIMER AND ONE FINAL COAT OF RUST-INHIBITING EXTERIOR ENAMEL. FINAL COLOR SHALL MATCH THE SURROUNDING FINISHES, OR SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- SUPPORT GAS PIPING ON ROOF WITH PIPE STANDS (MANUFACTURED BY MIRO INDUSTRIES OR EQUAL). WOOD BLOCKING SHALL NOT BE ACCEPTABLE.
- EXISTING NATURAL GAS SERVICE, METER AND 4" RISER TO REMAIN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD, AND SHALL ARRANGE FOR ANY REQUIRED UTILITY SERVICE UPGRADES, INCLUDING APPLICATIONS, AND PAY ALL ASSOCIATED UTILITY SERVICE FEES.

SYMBOLS & ABBREVIATIONS

- | | |
|--|---|
| | ELBOW UP |
| | ELBOW DOWN |
| | DOMESTIC COLD WATER |
| | DOMESTIC FILTERED COLD WATER |
| | DOMESTIC HOT WATER |
| | DOMESTIC HOT WATER RECIRC. |
| | NATURAL GAS |
| | NATURAL GAS (ON ROOF) |
| | CODED NOTE (SEE SAME SHEET FOR NOTE MEANING) |
| | CONNECT TO EXISTING |
| | GAS METER |
| | WATER METER |
| | VALVE |
| | BALANCE VALVE |
| | CHECK VALVE |
| | EQUIPMENT TAG: SEE SCHEDULES FOR MORE INFORMATION |

PLUMBING ABBREVIATIONS

(D)	DEMOLISHED
(E)	EXISTING
A.F.F.	ABOVE FINISHED FLOOR
A.H.J.	AUTHORITY HAVING JURISDICTION
A.O.R.	ARCHITECT OF RECORD
B.F.F.	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
DW	DISHWASHER
DWH	DOMESTIC WATER HEATER
E.O.R.	ENGINEER OF RECORD
FD	FLOOR DRAIN
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
HD	HUB DRAIN
KES	KITCHEN EQUIPMENT SUPPLIER
LAV	LAVATORY
MS	MOP SINK
P	PUMP
SK	SINK
TD	TRENCH DRAIN
UR	URINAL
V.T.R.	VENT THROUGH ROOF
WC	WATER CLOSET



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**PLUMBING
SUPPLY PLAN**

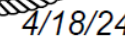
P100

[illegible]

	ELBOW UP
	ELBOW DOWN
	SANITARY WASTE
	GREASE WASTE
	SANITARY VENT
	CONDENSATE DRAIN
	CODED NOTE (SEE SAME SHEET FOR NOTE MEANING)
	CONNECT TO EXISTING
	EQUIPMENT TAG- SEE SCHEDULES FOR MORE INFORMATION

PLUMBING ABBREVIATIONS

A/F	DEMOLISHED
EX	EXISTING
U/F	UNDER FINISHED FLOOR
ATH	AUTHORITY HAVING JURISDICTION
A/R	ARCHITECT OF RECORD
BF	BELOW FINISHED FLOOR
BP	BACKFLOW PREVENTER
CL	CLIMATIC
DW	DISWASHER
CPH	CORRUGATED PLASTIC
W.H	DOMESTIC WATER HEATER
E/R	ENGINEER OF RECORD
FL	FLOOR DRAIN
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
H.D	HOT WATER DRAIN
KES	KITCHEN EQUIPMENT SUPPLIER
LAV	LAVATORY
MS	MOP SINK
P	PUMP
SK	SINK
TD	TRENCH DRAIN
UR	URINAL
V.R	VENT THROUGH ROOF
WC	WATER CLOSET



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P200

DOMESTIC WATER PIPING INSULATION THICKNESS

FLUID TEMPERATURE (°F)	INSULATION CONDUCTIVITY (BTU"IN / [H°SF°F])	<1"	1" TO <1-1/2"	1-1/2" TO <4"
105 - 140	0.21 - 0.28	1"	1"	1.5
61 - 104	0.21 - 0.27	1/2"	1/2"	1"
40 - 60	0.21 - 0.27	1/2"	1/2"	1"
40	0.20 - 0.26	1/2"	1"	1"

MATERIAL SCHEDULE

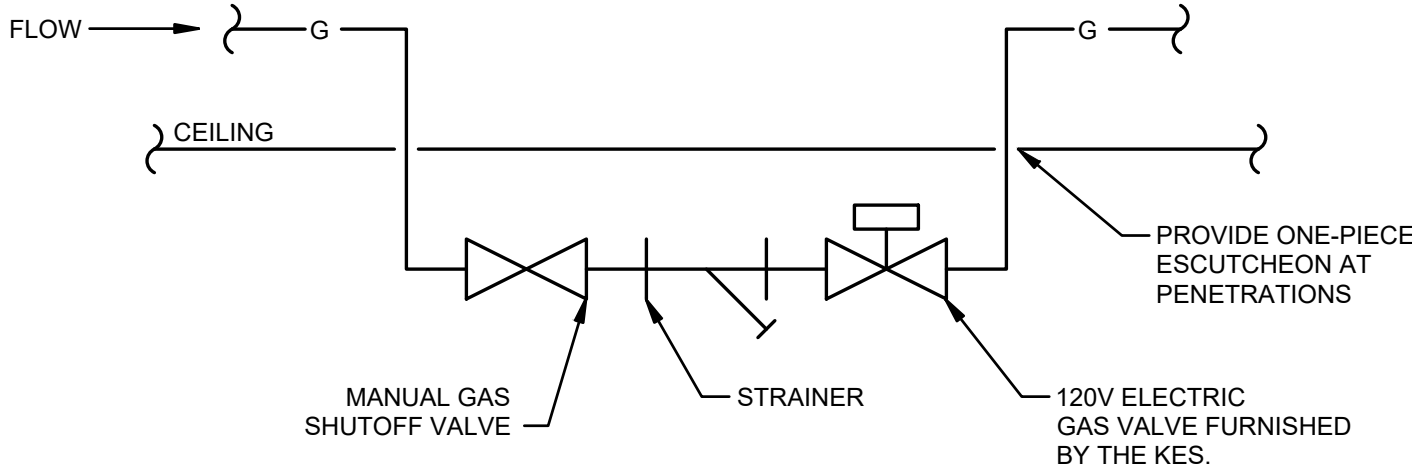
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
SANITARY WASTE & VENT PIPING	ABOVE GROUND, CONCEALED	PVC DWV PIPE AND FITTINGS
	ABOVE GROUND, PREP SINKS AND WARE WASHING SINK DRAINS	PVC DWV PIPE AND FITTINGS
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	BELOW SLAB	PVC DWV PIPE AND FITTINGS
WATER SUPPLY PIPE	ABOVE GRADE	TYPE L COPPER TUBE
	BELOW GRADE	TYPE K COPPER TUBE, NO BELOW-GROUND JOINTS
NATURAL GAS	CONCEALED	SCHEDULE 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS
	EXPOSED	SCHEDULE 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS

PLUMBING FIXTURE SCHEDULE

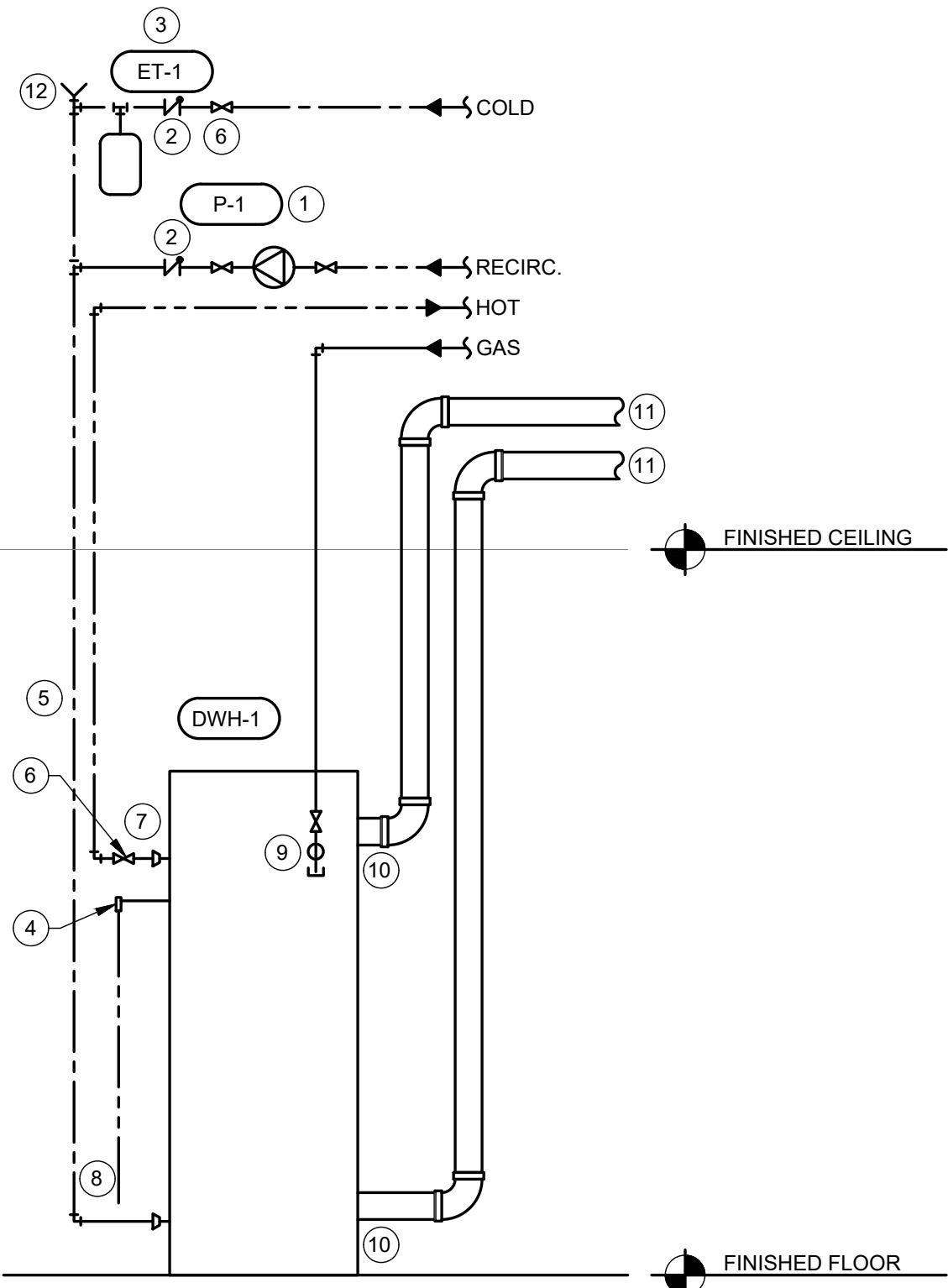
TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	DESCRIPTION	CONNECTION SIZES		
							CW	HW	WASTE
16	SODA BAG 'N' BOX	VENDOR	GC	BY VENDOR	BY VENDOR	SODA BAG 'N' BOX FURNISHED BY VENDOR	1/2"		
17	CARBONATOR	VENDOR	GC	BY VENDOR	BY VENDOR	SODA CARBONATOR BY VENDOR	1/2"		
24	WATER FILTRATION SYSTEM	VENDOR	GC	BY VENDOR	BY VENDOR	WATER FILTRATION SYSTEM	1/2"		
25	ICE MACHINE	VENDOR	GC	BY VENDOR	BY VENDOR	AIR-COOLED ICE MACHINE	1/2"		
30	HAND SINK	KES	GC	BY KES	BY KES	STAINLESS STEEL HAND SINK WITH SPLASH GUARDS AND FAUCET.	1/2"	1/2"	1-1/2"
34	THREE COMPARTMENT SINK	KES	GC	BY KES	BY KES	STAINLESS STEEL THREE COMPARTMENT SINK WITH FRONT CROSS RAIL, ROTARY WASTE AND PRE-RINSE ASSEMBLY WITH ADD-ON FAUCET.	1/2"	1/2"	2"
42	DISH MACHINE	KES	GC	BY KES	BY KES	DISH MACHINE	1/2"	3/4"	2"
44	PRE-RINSE ASSEMBLY	KES	GC	BY KES	BY KES	PRE-RINSE ASSEMBLY	1/2"	1/2"	2"
45	GARBAGE DISPOSAL	KES	GC	BY KES	BY KES	GARBAGE DISPOSAL	1/2"		2"
46	SOILED DISHTABLE WITH ICE BURN SINK	KES	GC	BY KES	BY KES	STAINLESS STEEL DISHTABLE WITH BUILD-IN ICE BURN, QUICK DRAIN WITH DISH RACK AND SCRAP BACKET		1/2"	2"
50	HAND SINK	KES	GC	BY KES	BY KES	STAINLESS STEEL HAND SINK WITH SPLASH GUARDS AND FAUCET	1/2"	1/2"	1-1/2"
115	SODA/ICE DISPENSER	VENDOR	GC	BY VENDOR	BY VENDOR	DROP IN SODA/ICE DISPENSER WITH STAND AND BIN	1/2"		3/4"
118	BEVERAGE TABLE WITH HAND SINK	KES	GC	BY KES	BY KES	STAINLESS STEEL BEVERAGE TABLE WITH HAND SINK AND FAUCET	1/2"	1/2"	1-1/2"
131	COFFEE BREWER	VENDOR	GC	BY VENDOR	BY VENDOR	COFFEE BREWER	1/2"		
132	CAPPUCCINO MACHINE	VENDOR	GC	BY VENDOR	BY VENDOR	CAPPUCCINO MACHINE	1/2"		
133	COFFEE/TEA BREWER	VENDOR	GC	BY VENDOR	BY VENDOR	COFFEE/TEA BREWER	1/2"		
141	DIPPERWELL WITH FAUCET	KES	GC	BY KES	BY KES	DROP-IN DIPPERWELL WITH FAUCET	1/2"		1-1/2"
145	DRIP TRAY	KES	GC	BY KES	BY KES	DRIP TRAY			1/2"
BFP-1	DOUBLE CHECK BACKFLOW PREVENTER	GC	GC	APOLLO	4ALF-104	ASSE 1015 DOUBLE CHECK VALVE	3/4"		
ET	EXPANSION TANK	GC	GC	AMTROL	ST-12	6.4 GALLON TANK WITH 3.2 GALLON ACCEPTANCE.	3/4"		
FS-1	FLOOR SINK	GC	GC	ZURN	Z1901-KC-2	12"x12" CAST IRON FLOOR SINK WITH STRAINER AND HALF GRATE.			3"
LAV-1F	RESTROOM LAVATORY FAUCET	GC	GC	AMERICAN STANDARD	5502.175	CHROME CENTERSET FAUCET WITH 0.5 GALLON PER MINUTE FLOW RATE AND WRIST-BLADE HANDLES AND GRID STRAINER DRAIN.	1/2"	1/2"	
LAV-1S	RESTROOM LAVATORY SINK	GC	GC	AMERICAN STANDARD	0630.000	ADA COMPLIANT, BARRIER-FREE COMPLIANT, ROUND UNDERCOUNTER SINK CONSTRUCTED OF VITREOUS CHINA WITH FRONT OVERFLOW. ASME A112.19.2M CERTIFIED.			1-3/4"
UR-1	URINAL	GC	GC	KOHLER	K-4991-ET	EPA WATERSENSE, ADA COMPLIANT WASHOUT URINAL CONSTRUCTED OF VITREOUS CHINA. PROVIDED WITH KOHLER K-10958-SV, EPA WATERSENSE, 0.5 GALLON PER FLUSH FLUSHOMETER IN POLISHED CHROME FINISH AND JAY R. SMITH 0617 LABOR SAVER WALL CARRIER.	3/4"		2"
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519	1.0 GALLON PER FLUSH, ADA ACCESSIBLE TOILET WITH SLOAN, PRESSURE ASSISTED FLUSH-TANK SYSTEM. COORDINATE TRIP LEVER LOCATION TO BE ON THE APPROACH SIDE. PROVIDE WITH KOHLER K-4666-C OPEN-FRONT SEAT.			
P-1	RECIRCULATING PUMP	GC	GC	TACO	003-BC4-PNP	DOMESTIC HOT WATER CARTRIDGE-TYPE CIRCULATOR WITH INTEGRAL TIMER. PROVIDE AQUASTAT SET AT APPROXIMATELY 100°F.	1/2"		
FD-1	FLOOR DRAIN	GC	GC	ZURN	Z415B-P	ADJUSTIBLE CAST-IRON FLOOR DRAIN WITH TRAP PRIMER CONNECTION AND POLISHED NICKEL-BRONZE STRAINER			3"

DOMESTIC WATER HEATER SCHEDULE

TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	TANK VOLUME (GALLONS)	GAS INPUT (MBH)	RECOVERY RATE (GALLONS / HOUR)	TEMP. RISE (DEG. F)	NOTES
DWH-1	GAS-FIRED DOMESTIC WATER HEATER	GC	GC	AO SMITH	BTH-199	100	199	336	70	



5 KITCHEN GAS SHUTOFF DETAIL
N.T.S.



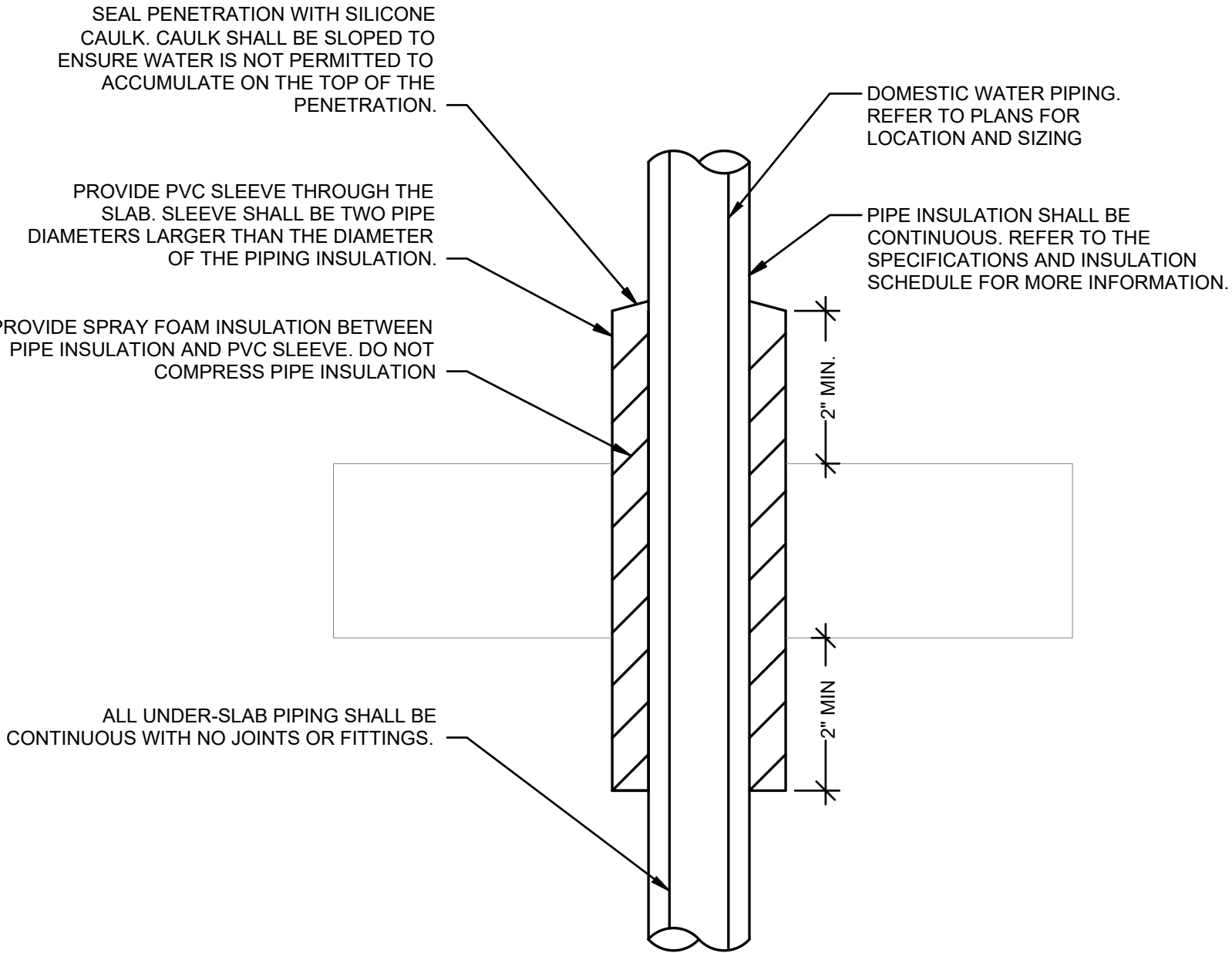
WATER HEATER INSTALLATION NOTES

- A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE OWNER.
B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLE MATERIALS.
D. ADJUST WATER HEATER TO A SETPOINT OF 120° F.

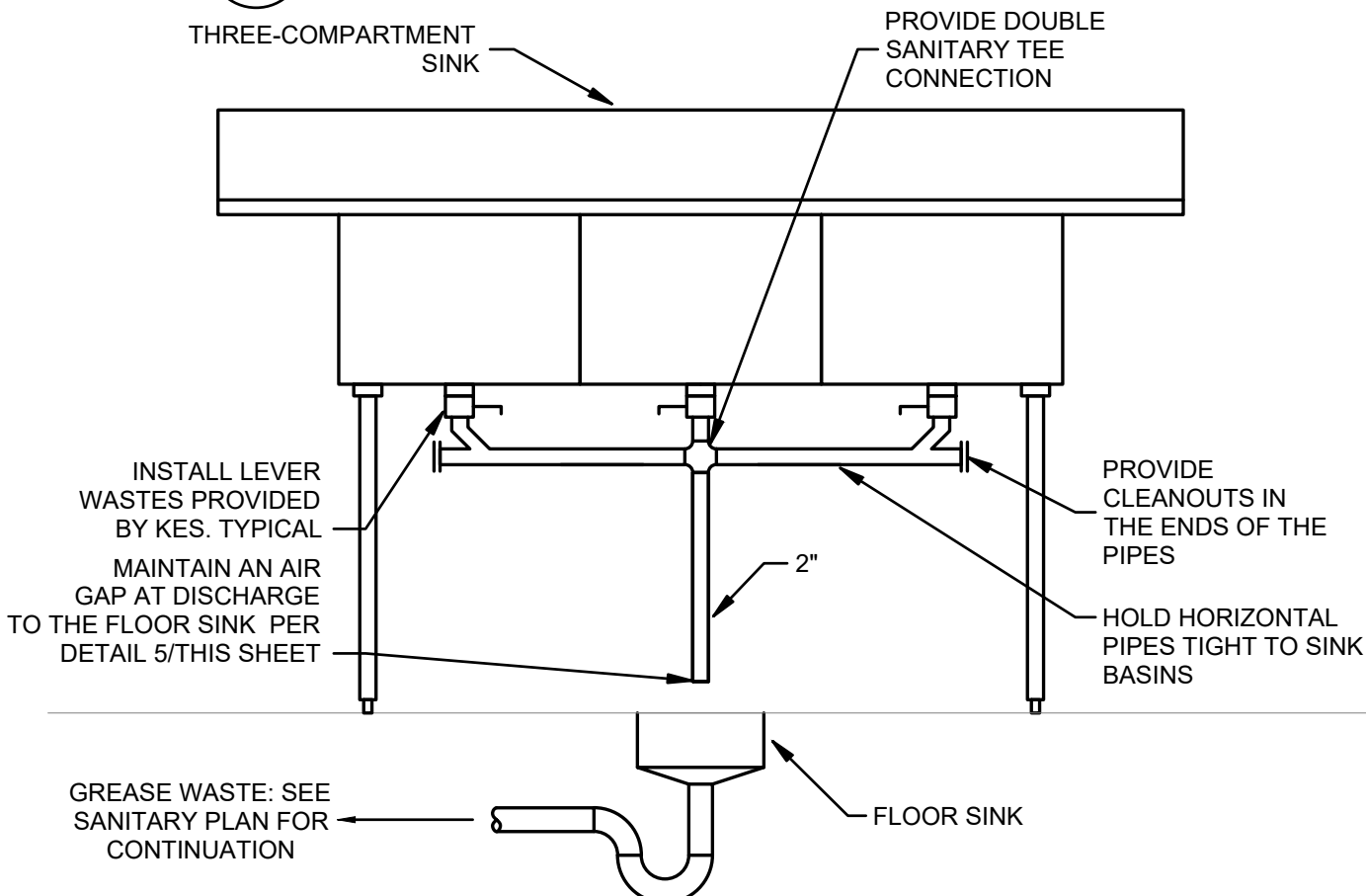
6 WATER HEATER DETAIL
N.T.S.

WATER HEATER DETAIL NOTES

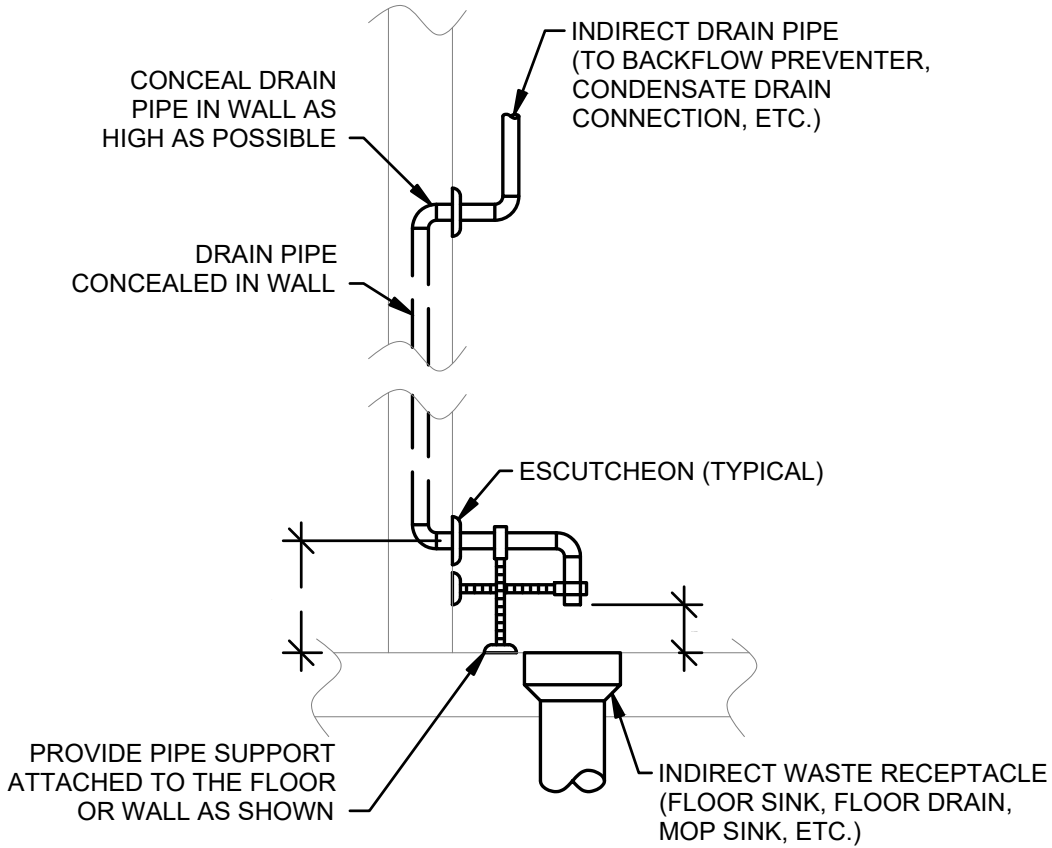
1. PROVIDE RECIRCULATION PUMP P-1 AS SHOWN. SUPPORT PUMP FROM WALL OR STRUCTURE ABOVE. THE PUMP SHALL BE CONTROLLED BY A TIME CLOCK SET FOR THE OCCUPIED HOURS OF THE STORE AND AN AQUASTAT INSTALLED ON THE RECIRC. PIPE UPSTREAM FROM THE PUMP.
2. PROVIDE LINE-SIZE CHECK VALVES IN COLD AND RECIRCULATION WATER PIPES AS SHOWN.
3. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE TEMPERATURE AND PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO MOP SINK.
5. INSULATE EXPOSED AND CONCEALED HOT AND COLD WATER PIPING TO WITHIN 3" OF THE WATER HEATER.
6. PROVIDE LINE-SIZE BALL VALVES IN COLD AND HOT WATER PIPES AS SHOWN.
7. IF THE COLD OR HOT PIPE LINE SIZE AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTION SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
8. PIPE PRESSURE RELIEF VALVE DISCHARGE AND WATER HEATER CONDENSATE DRAIN TO THE MOP SINK. DRAIN THROUGH AN AIR GAP.
9. PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZED GAS VALVE AT THE CONNECTION TO THE WATER HEATER.
10. PROVIDE A 4" ROUND PVC INTAKE PIPE AND FLUE FOR THE WATER HEATER AS NOTED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
11. EXTEND INTAKE AND FLUE PIPING AS REQUIRED AND CONNECT TO THE PLENUM-BOX OF THE LOUVER AS SHOWN ON SHEET P-200. TERMINATE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
12. PROVIDE VACUUM RELIEF VALVE.



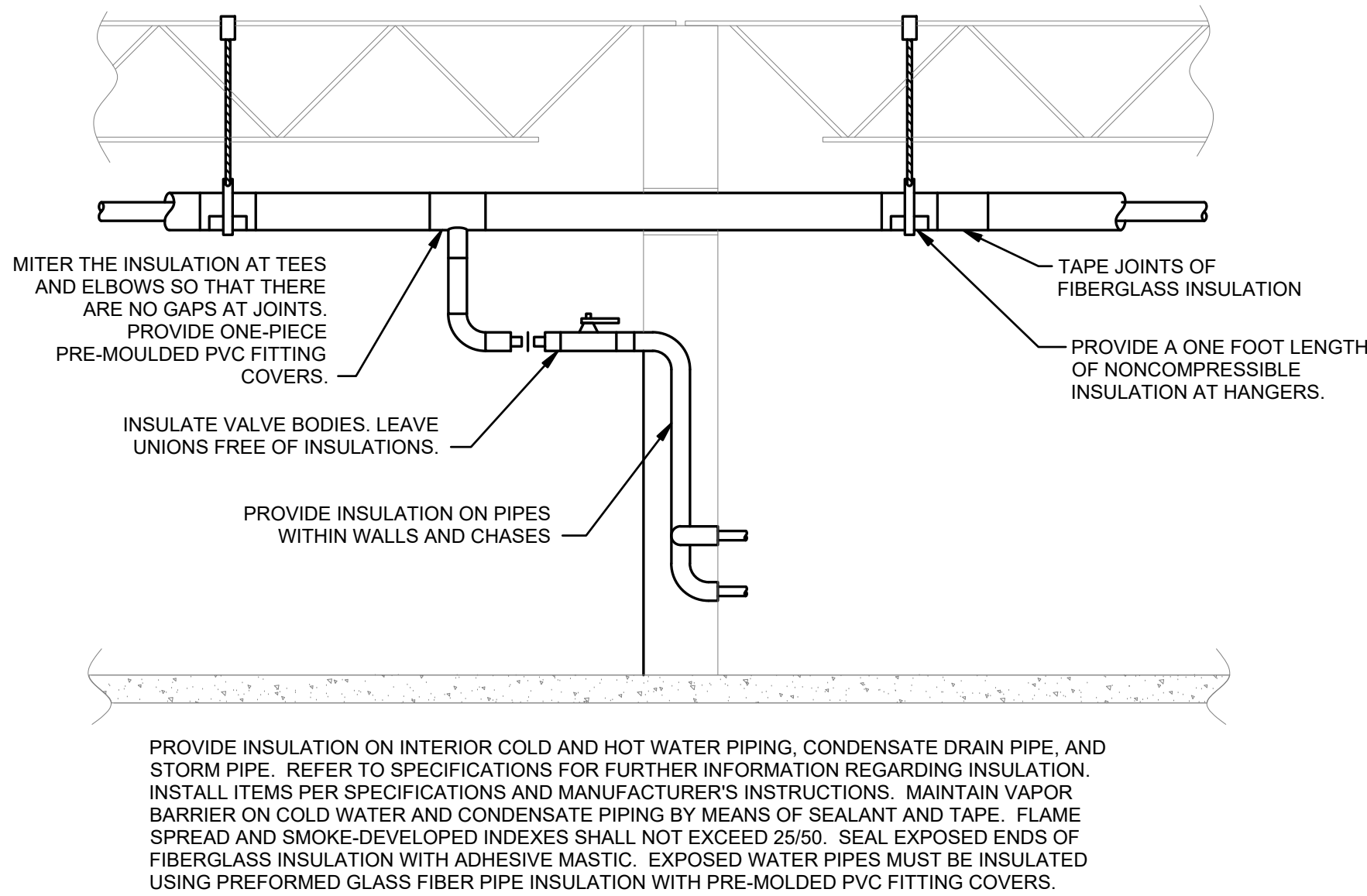
3 UNDER-SLAB PIPING DETAIL
N.T.S.



2 WARE-WASHING SINK DETAIL
N.T.S.



4 INDIRECT WASTE PIPING DETAIL
N.T.S.



1 PIPE INSULATION DETAIL
N.T.S.



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PLUMBING
SCHEDULES &
DETAILS

P300



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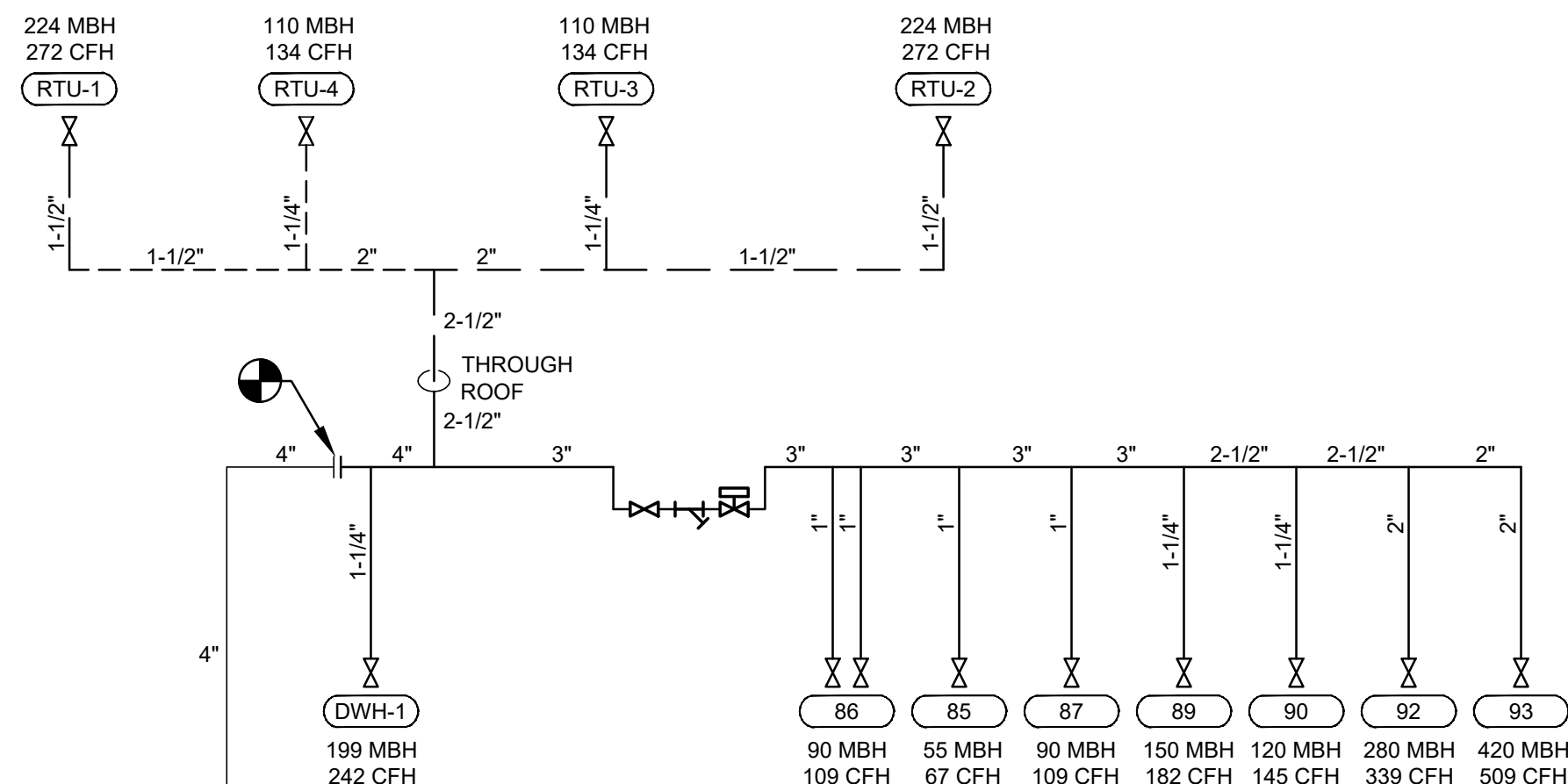
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1	08/29/22	CLIENT CHANGES
2	04/08/24	CITY COMMENTS

PLUMBING
DIAGRAMS

P400

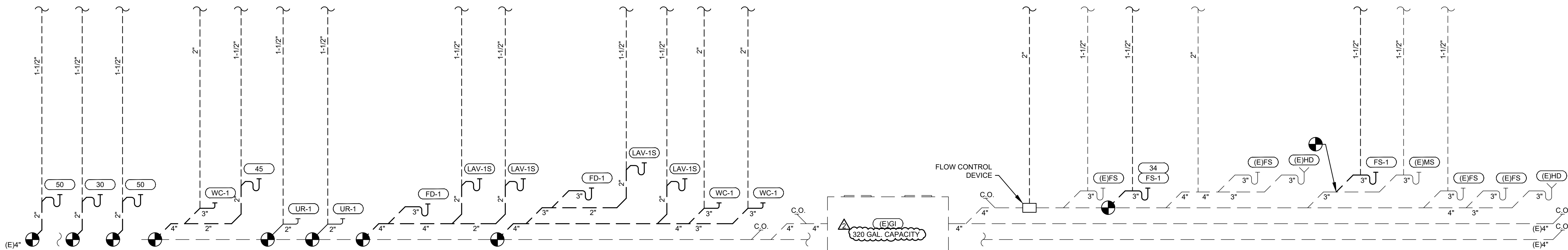
FLOW CONTROL DEVICE SIZING TABLE	
INTERCEPTOR SIZE (GALLONS)	MAXIMUM FLOW RATE (GPM)
500	16.7
750	25.0
1000	33.3
1250	41.7
1500	50.0
2000	66.7



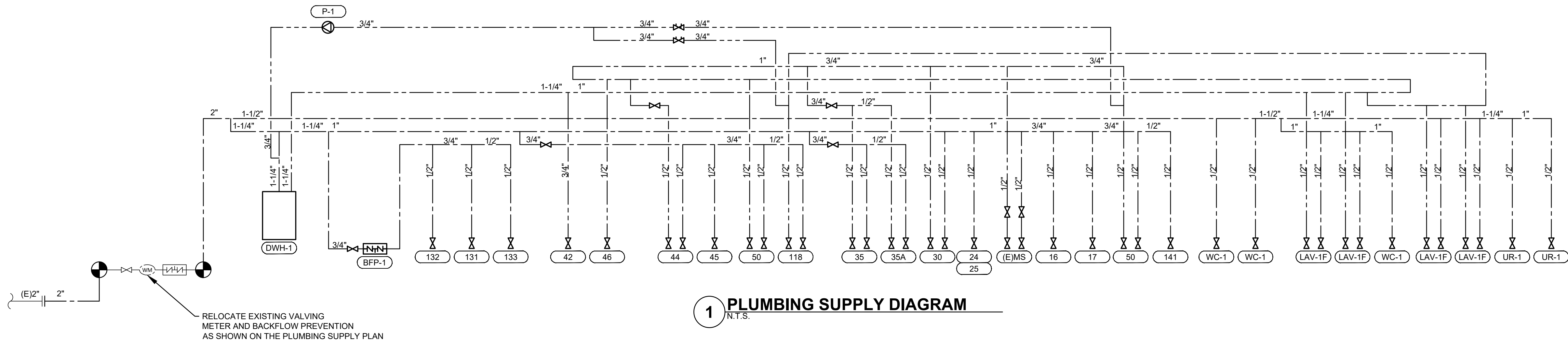
3 NATURAL GAS SUPPLY DIAGRAM
N.T.S.

CONNECTED GAS LOAD				
TAG	FIXTURE	GAS INPUT (MBH)	GAS INPUT (CFH)	EQUIVALENT LENGTH FROM REGULATOR (FT)
DWH-1	GAS FIRED WATER HEATER	199	242	85
RTU-1	DINING ROOM PACKAGED ROOFTOP UNIT	224	272	125
RTU-2	DINING ROOM PACKAGED ROOFTOP UNIT	224	272	100
RTU-3	KITCHEN PACKAGED ROOFTOP UNIT	110	134	55
85	2 BURNER HOT PLATE	55	67	130
86	DOUBLE CONVECTION OVEN	90	109	130
87	36" COUNTERTOP GRIDDLE	90	109	135
89	60" COUNTERTOP GRIDDLE	150	182	145
90	48" COUNTERTOP GRIDDLE	120	145	150
92	(2) FRYER BATTERY	280	339	155
93	(3) FRYER BATTERY	420	509	160
RTU-1	PACKAGED ROOFTOP UNIT	110	134	85
TOTAL		2072	2514	MAX: 160

NOTES:
1. FIELD-VERIFY ALL LENGTHS PRIOR TO ROUGH-IN.
2. CALCULATIONS HAVE BEEN BASED OFF A 7" WATER COLUMN SUPPLY PRESSURE AND A PRESSURE DROP OF 0.3" WATER COLUMN. REPORT TO THE CONSTRUCTION MANAGER IF THE PRESSURE ON SITE VARIES FROM DESIGN.



2 SANITARY WASTE & VENT DIAGRAM
N.T.S.



1 PLUMBING SUPPLY DIAGRAM
N.T.S.

RELOCATE EXISTING VALVING
METER AND BACKFLOW PREVENTION
AS SHOWN ON THE PLUMBING SUPPLY PLAN

SECTION 26 00 00 - ELECTRICAL GENERAL REQUIREMENTS

- PART 1 - GENERAL
1. THE TERM "TENANT," "TENANT'S CONSTRUCTION MANAGER," "OWNER," OR "OWNER'S CONSTRUCTION MANAGER" SHALL REFER TO GUNTHER TOODY.
 2. THE GENERAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM AND AS DESCRIBED IN THESE DRAWINGS.
 3. THE GENERAL CONTRACTOR SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS. EACH SUB-CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS ON SITE DURING THE CONSTRUCTION PROCESS.
 4. COORDINATE WORK AS REQUIRED WITH THE LANDLORD. THE GENERAL CONTRACTOR SHALL UTILIZE LANDLORD-REQUIRED CONTRACTORS AT THE GENERAL CONTRACTOR'S EXPENSE.

- PART 2 - PRODUCTS
1. PRODUCTS SHALL BE AS DESCRIBED IN THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.

- PART 3 - EXECUTION
1. UNLESS DIMENSIONS HAVE BEEN PROVIDED, THE DRAWINGS ARE DIAGRAMMATIC IN NATURE, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. THEY SHALL NOT BE SCALED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, TENANT VENDORS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CUTSHEETS AS REQUIRED.
 2. COMPLETE ALL WORK IN COMPLIANCE WITH THE CODES LISTED ON SHEET G-001 INCLUDING ALL LOCAL AMENDMENTS, ALL RELEVANT NFPA CODES AND STANDARDS AND SMACNA STANDARDS.
 3. COORDINATE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND ARRANGE ALL INSPECTIONS AS REQUIRED.
 4. MAINTAIN A CLEAN CONSTRUCTION SITE DURING CONSTRUCTION. CLEAN SCRAP MATERIAL AND REMOVE FROM SITE DAILY AND MAINTAIN WORKING AREA IN AN ORDERLY FASHION.
 5. PROVIDE SUBMITTALS AS NOTED IN THESE SPECIFICATIONS AND AS REQUESTED BY THE TENANT'S CONSTRUCTION MANAGER.
 6. REQUESTS FOR INFORMATION TO THE TENANT'S CONSTRUCTION MANAGER.
 7. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT'S CONSTRUCTION MANAGER WITH A BOUND RECORD OF ALL ELECTRICAL EQUIPMENT UTILIZED IN THE JOB.
 8. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT'S CONSTRUCTION MANAGER A FULL SET OF DRAWINGS WITH ANY DEVIATIONS FROM THE DRAWINGS INDICATED IN RED INK.

(END OF SECTION 26 00 00)

SECTION 26 05 19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

- PART 1 - GENERAL
1. SECTION REQUIREMENTS
 2. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. COPPER BUILDING WIRE SHALL BE FLEXIBLE, INSULATED, DRAWN COPPER CURRENT-CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH, RATED 600V OR LESS, LISTED AND LABELED AS DEFINED IN NFPA 70.
 2. METAL-CLAD CABLE, TYPE MC, SHALL BE A FACTORY ASSEMBLY OF ONE OR MORE CURRENT-CARRYING INSULATED CONDUCTORS IN A METALLIC SHEATH, LISTED AND LABELED AS DEFINED IN NFPA 70.
- PART 3 - EXECUTION
1. REFER TO THE MAIN DISTRIBUTION DIAGRAM FOR FEEDER CONDUCTOR AND INSULATION REQUIREMENTS.
 2. REFER TO THE MATERIAL SCHEDULE FOR BRANCH CIRCUIT CONDUCTOR AND INSULATION REQUIREMENTS.
 3. INSTALLATION OF CONDUCTORS AND CABLES
 4. CONCEAL CABLES IN FINISHED WALLS AND CEILINGS WHERE PRACTICAL. IN AREAS WITH EXPOSED CEILINGS, CONDUCTORS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO WALLS AND BUILDING STRUCTURE.
 5. USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY. COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION.
 6. USE PULLING MEANS THAT WILL NOT DAMAGE THE CABLES OR RACEWAY.
 7. CONNECTIONS
 8. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES.
 9. MAKE SPLICES, TERMINATIONS AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL. USE OXIDE INHIBITOR IN EACH SPLICE, TERMINATION AND TAP BETWEEN ALUMINUM AND COPPER.
 10. INSTALL CONDUCTOR AT EACH OUTLET AND SWITCH WITH AT LEAST 6 INCHES OF SLACK.
 11. THE FOLLOWING COLOR CODE SHALL BE USED FOR ALL SECONDARY SERVICE, FEEDER AND BRANCH CIRCUIT CONDUCTORS:

A. PHASE A	208/120V BLACK
B. PHASE B	RED
C. PHASE C	BLUE
D. NEUTRAL	WHITE
E. GROUND	GREEN

(END OF SECTION 26 05 19)

SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- PART 1 - GENERAL
1. SUMMARY
 2. SECTION INCLUDES GROUNDING AND BONDING SYSTEMS AND EQUIPMENT. REQUIREMENTS OF THIS SECTION MAY BE SUPPLEMENTED IN SPECIAL CASES AS DESCRIBED IN OTHER SECTIONS.
 3. QUALITY ASSURANCE
 4. TESTING AGENCY QUALIFICATIONS: CERTIFIED BY NETA
- PART 2 - PRODUCTS
1. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70 AND MARKED FOR INTENDED LOCATION AND APPLICATION.
 2. COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.
 3. CONDUCTORS
 4. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.
 5. BARE STEEL CONDUCTORS: SOLID CONDUCTORS SHALL COMPLY WITH ASTM B 3. STRANDED CONDUCTORS SHALL COMPLY WITH ASTM B 8.
 6. MECHANICAL TYPE BUS-BAR CONNECTORS SHALL BE CAST SILICON BRONZE, SOLDERLESS COMPRESSION TYPE WIRE TERMINALS.
 7. CABLE-TO-CABLE CONNECTORS SHALL BE COMPRESSION TYPE, COPPER OR COPPER ALLOY.
 8. CONDUIT HUBS SHALL BE MECHANICAL TYPE, TERMINAL WITH THREADED HUB.
 9. GROUNDING ELECTRODES
 10. GROUND RODS SHALL BE COPPER-CLAD STEEL, 3/4 INCH BY 10 FEET.

- PART 3 - EXECUTION
1. APPLICATIONS
 2. INSTALL SOLID CONDUCTOR FOR NO. #10 AWG AND SMALLER, AND STRANDED CONDUCTORS FOR NO. #6 AWG AND LARGER UNLESS NOTED OTHERWISE.
 3. ISOLATED GROUNDING CONDUCTORS SHALL BE GREEN-COLORED INSULATION WITH CONTINUOUS YELLOW STRIPE.
 4. PIPE AND EQUIPMENT GROUNDING CONNECTOR TERMINATIONS SHALL BE WITH BOLTED CONNECTORS.
 5. CONNECTIONS TO GROUND RODS AT TEST WELLS SHALL BE WITH BOLTED CONNECTORS.
 6. CONNECTIONS TO STRUCTURAL STEEL SHALL BE WITH WELDED CONNECTORS.
 7. SERVICE GROUNDING
 8. EQUIPMENT GROUNDING CONDUCTORS AND GROUNDING ELECTRODE CONDUCTORS SHALL BE CONNECTED TO THE GROUND BUS. INSTALL A MAIN BONDING JUMPER BETWEEN THE NEUTRAL AND GROUND BUSES.
 9. EQUIPMENT GROUNDING
 10. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS IN ACCORDANCE WITH NFPA 70.
 11. INSTALLATION
 12. ROUTE GROUNDING CONDUCTORS ALONG SHORTEST AND STRAIGHTEST PATHS POSSIBLE UNLESS OTHERWISE INDICATED OR REQUIRED BY CODE. AVOID OBSTRUCTING ACCESS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT OR DAMAGE.
 13. INSTALL GROUND RODS IN ACCORDANCE WITH NFPA 70 AND THE AUTHORITY HAVING JURISDICTION.
 14. INSTALL BONDING STRAPS AND JUMPERS IN LOCATIONS ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
 15. METAL WATER SERVICE PIPE (WHEN APPLICABLE) INSTALL INSULATED COPPER GROUNDING CONDUCTORS IN CONDUIT FROM BUILDING'S MAIN WATER SERVICE EQUIPMENT TO MAIN WATER SERVICE ENTRANCE TO THE BUILDING AND CONNECT TO MAIN METAL WATER SERVICE PIPES.
 16. WATER METER PIPING (WHEN APPLICABLE) USE BRAIDED TYPE BONDING JUMPERS TO ELECTRICALLY BYPASS WATER METER.
 17. BOND EACH ABOVE GROUND PORTION OF GAS PIPING SYSTEMS DOWNSTREAM FROM EQUIPMENT SHUTOFF VALVE.
 18. CONNECTIONS
 19. MAKE CONNECTIONS SO POSSIBILITY OF GALVANIC ACTION OR ELECTROLYSIS IS MINIMIZED. SELECT CONNECTORS, CONNECTION HARDWARE, CONDUCTORS AND CONNECTION METHODS SO METALS IN DIRECT CONTACT ARE GALVANICALLY COMPATIBLE.
 20. COAT AND SEAL CONNECTIONS HAVING DISSIMILAR METALS WITH INERT MATERIAL TO PREVENT FUTURE PENETRATION OF MOISTURE TO CONTACT SURFACES.

(END OF SECTION 26 05 26)

SECTION 26 05 33 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

- PART 1 - GENERAL
1. SECTION REQUIREMENTS
 2. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. METAL CONDUIT
 2. INTERMEDIATE METAL CONDUIT, ELECTRICAL METALLIC TUBING, METAL-CLAD CABLE, FLEXIBLE METAL CONDUIT AND LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE PERMITTED. REFER TO THE ELECTRICAL MATERIAL SCHEDULE FOR APPLICATIONS.
 3. METAL FITTINGS
 4. ALL METAL FITTINGS SHALL BE LISTED, LABELED AND MARKED AS DEFINED IN NFPA 70 FOR THE INTENDED LOCATION AND APPLICATION.
 5. METAL FITTINGS SHALL BE LISTED AND LABELED FOR THE TYPE OF CONDUIT.
 6. FITTINGS FOR EMT SHALL BE STEEL WITH A SETSCREW.
 7. EXPANSION FITTINGS SHALL COMPLY WITH UL 651, RATED FOR ENVIRONMENTAL CONDITIONS WHERE INSTALLED, AND INCLUDING FLEXIBLE EXTERNAL BONDING JUMPER.
 8. METAL WIREWAYS AND AUXILIARY GUTTERS
 9. CONSTRUCTED OF SHEET METAL COMPLYING WITH UL 870 AND NEMA 250, SIZED PER NFPA 70.
 10. INCLUDE COVERS, COUPLINGS, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLD-DOWN STRAPS, END CAPS AND OTHER FITTINGS TO MATCH AND MATE WITH WIREWAYS FOR A COMPLETE SYSTEM.
 11. PROVIDED WITH MANUFACTURER'S STANDARD ENAMEL FINISH.
 12. BOXES, ENCLOSURES AND CABINETS
 13. BOXES, ENCLOSURES AND CABINETS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS.
 14. OUTLETS, DEVICE BOXES, PULL BOXES AND JUNCTION BOXES: CAST-METAL BOXES SHALL BE UTILIZED AT EXTERIOR, INTERIOR EXPOSED AND INTERIOR DAMP LOCATIONS. ALL OTHER LOCATIONS SHALL USE SHEET METAL BOXES.
 15. METAL FLOOR BOXES SHALL BE AS SPECIFIED ON THE PLANS.
 16. CABINETS
 17. NEMA 250, TYPE 1 GALVANIZED STEEL BOX FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL.
 18. PROVIDE WITH HINGED DOOR WITH FLUSH LATCH AND CONCEALED HINGE.
 19. PROVIDE METAL BARRIERS TO SEPARATE WIRING OF DIFFERENT SYSTEMS AND VOLTAGES.
- PART 3 - EXECUTION
1. COMPLY WITH NFPA 70 LIMITATIONS FOR TYPES OF RACEWAYS ALLOWED IN SPECIFIC APPLICATIONS.
 2. REFER TO THE MATERIAL SCHEDULE FOR RACEWAY APPLICATIONS.
 3. MINIMUM RACEWAY SIZE SHALL BE 3/4-INCH TRADE SIZE.
 4. INSTALLATION
 5. DO NOT FASTEN CONDUITS ONTO THE BOTTOM SIDE OF METAL ROOF DECK, ATTACHED TO PIPING, DUCTWORK OR OTHER CONDUIT.
 6. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT WATER PIPING.
 7. COORDINATE INSTALLATION WITH WORK OF ALL OTHER TRADES. ACCOMMODATE HANGERS, INSULATION AND OTHER REQUIREMENTS AS REQUIRED.
 8. ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
 9. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN. WHERE MORE BENDS ARE REQUIRED IN A SINGLE RUN, A PULL BOX SHALL BE INSTALLED.
 10. CONCEAL CONDUIT WITHIN FINISHED WALLS, CEILINGS AND FLOORS UNLESS NOTED OTHERWISE. INSTALL EXPOSED CONDUITS PARALLEL OR PERPENDICULAR TO BUILDING LINES.
 11. APPLY LISTED COMPOUND TO THREADS OF RACEWAYS AND FITTINGS ON ALL JOINTS EXPOSED TO WET, DAMP OR OUTDOOR CONDITIONS. FOLLOW COMPOUND MANUFACTURER'S WRITTEN INSTRUCTIONS.
 12. USE INSULATING BUSHINGS TO PROTECT CONDUCTORS AT ALL RACEWAY TERMINATIONS SUBJECT TO MOISTURE OR VIBRATION.
 13. INSTALL PULL WIRES WHERE NOTED ON PLANS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200 POUND TENSILE STRENGTH.
 14. INSTALL DEVICES TO SEAL RACEWAY INTERIORS AT ACCESSIBLE LOCATIONS. LOCATE SEALS SO NO FITTINGS OR BOXES ARE BETWEEN THE SEAL AND CHANGES OF ENVIRONMENT WHERE CONDUIT PASSES FROM WARM TO COLD CONDITIONS, SUCH AS THE BOUNDARIES OF REFRIGERATED SPACES, WHERE CONDUIT PASSES FROM THE INTERIOR TO EXTERIOR OF THE BUILDING AND WHERE REQUIRED BY NFPA 70.
 15. INSTALL EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 16. FASTEN JUNCTION AND PULL BOXES TO BUILDING STRUCTURE.

(END OF SECTION 26 05 33)

SECTION 26 24 16 - PANELBOARDS

- PART 1 - GENERAL
1. GENERAL REQUIREMENTS
 2. SECTION REQUIREMENTS
 3. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING ENCLOSURE TYPE, MOUNTING, BUS CONFIGURATION, VOLTAGE RATING, CURRENT RATING, SHORT CIRCUIT CURRENT RATING AND BREAKER CONFIGURATION.
- PART 2 - PRODUCTS
1. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS
 2. EXISTING PANELBOARDS TO REMAIN. MODIFY AS NOTED ON THE PLANS.
 3. MOLDED-CASE CIRCUIT BREAKERS
 4. COMPLY WITH UL 489 WITH INTERRUPTING CAPACITY AS REQUIRED TO SATISFY THE SHORT-CIRCUIT CURRENT AS NOTED ON THE MAIN DISTRIBUTION DIAGRAM.
 5. LINE-SIDE TERMINALS SHALL BE BOLTED TO THE BUSBAR.
 6. PROVIDE CIRCUIT BREAKER, APPROPRIATE FOR THE APPLICATION.
 7. SINGLE-HANDLE FOR MULTIPOLE CIRCUIT BREAKERS.
 8. PROVIDE TYPE SWD FOR REPETITIVE SWITCHING LIGHTING LOADS.
 9. PROVIDE TYPE HACR CIRCUIT BREAKERS FOR HEATING, AIR-CONDITIONING AND REFRIGERATING EQUIPMENT.
 10. BREAKERS SHALL BE BY THE SAME MANUFACTURER AS THE PANELBOARD.
 11. IDENTIFICATION
 12. ALL PANELBOARDS SHALL INCLUDE THE MANUFACTURER'S LABELING, INCLUDING MANUFACTURER'S NAME, VOLTAGE, AMPERAGE, NUMBER OF PHASES AND NUMBER OF POLES.
 13. PROVIDE A TYPED CIRCUIT DIRECTORY INSIDE THE PANELBOARD DOOR MOUNTED IN A TRANSPARENT CARD HOLDER.
- PART 3 - EXECUTION
1. INSTALLATION
 2. COORDINATE INSTALLATION OF PANELBOARDS WITH WORK OF OTHER TRADES. ENSURE NO FOREIGN SYSTEMS CONFLICT WITH DEDICATED ELECTRICAL AREAS AS NOTED IN NFPA 70.
 3. MOUNT PANELBOARD WITH TOP CIRCUIT BREAKER NO GREATER THAN 6'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
 4. MOUNT RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL AND MATING WITH BACK BOX.
 5. MAKE ALL CONNECTIONS TO THE PANELBOARDS ACCORDING TO THE MANUFACTURER'S PUBLISHED DATA, PER NFPA 70 AND IN ACCORDANCE WITH ALL UL LISTING REQUIREMENTS.
 6. STUB FOUR 1-INCH EMPTY CONDUITS FROM PANELBOARD INTO ACCESSIBLE CEILING SPACE AND CAP.
 7. IDENTIFICATION
 8. CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS. DIRECTORY SHALL BE TYPED, HAND WRITTEN DIRECTORIES SHALL NOT BE ACCEPTABLE.
 9. LABEL EACH PANELBOARD WITH A TYPED, SELF-ADHESIVE LABEL. HAND WRITTEN LABELS SHALL NOT BE ACCEPTABLE.
 10. FIELD QUALITY CONTROL
 11. PERFORM VISUAL AND MECHANICAL INSPECTION FOR LOW-VOLTAGE AIR CIRCUIT BREAKERS STATED IN NETA ACCEPTANCE TESTING SPECIFICATION.

(END OF SECTION 26 24 16)

SECTION 26 27 26 - WIRING DEVICES

- PART 1 - GENERAL
1. SECTION INCLUDES: STRAIGHT BLADE RECEPTACLES, ISOLATED GROUND RECEPTACLES, GFCI RECEPTACLES, SPECIAL RECEPTACLES AND SWITCHES.
 2. SECTION REQUIREMENTS
 3. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. GENERAL
 2. WIRING DEVICES, COMPONENTS AND ACCESSORIES SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70 AND MARKED FOR INTENDED LOCATION AND APPLICATION.
 3. COMPLY WITH NFPA 70.
 4. MATCH PLUG CONFIGURATIONS WITH ALL OWNER (OR OWNER'S VENDOR) FURNISHED EQUIPMENT.
 5. STRAIGHT BLADE RECEPTACLES
 6. 5-20R, 125V, 20A DECORA STYLE RECEPTACLE
 7. PROVIDE TAMPER-RESISTANT RECEPTACLES IN ALL CUSTOMER-ACCESSIBLE AREAS.
 8. MANUFACTURED BY HUBBELL, LEVITON OR PASS & SEYMOUR/LEGRAND.
 9. ISOLATED GROUND RECEPTACLES
 10. 5-20R, 125V, 20A DECORA STYLE RECEPTACLE
 11. EQUIPMENT GROUNDING CONTACTS SHALL BE CONNECTED ONLY TO THE GREEN GROUNDING SCREW TERMINAL OF THE DEVICE AND WITH INHERENT ELECTRICAL ISOLATION FROM MOUNTING STRAP. ISOLATION SHALL BE INTEGRAL TO RECEPTACLE CONSTRUCTION AND NOT DEPENDENT ON REMOVABLE PARTS.
 12. MANUFACTURED BY HUBBELL, LEVITON OR PASS & SEYMOUR/LEGRAND.
 13. GFCI RECEPTACLES
 14. 5-20R, 125V, 20A DECORA STYLE GFCI RECEPTACLE
 15. PROVIDE TAMPER-RESISTANT RECEPTACLES IN ALL CUSTOMER ACCESSIBLE AREAS.
 16. MANUFACTURED BY HUBBELL, LEVITON OR PASS & SEYMOUR/LEGRAND.
 17. SPECIAL RECEPTACLES
 18. RECEPTACLES NOT INDICATED ABOVE SHALL BE AS NOTED ON THE PLANS.
 19. WHERE NO MANUFACTURER IS SPECIFIED, PROVIDE HUBBELL, LEVITON OR PASS & SEYMOUR/LEGRAND.
 20. SWITCHES
 21. 125V, 20A RATED UNLESS NOTED OTHERWISE.
 22. WHERE NO MANUFACTURER IS SPECIFIED, PROVIDE HUBBELL, LEVITON OR PASS & SEYMOUR/LEGRAND.

- PART 3 - EXECUTION
1. INSTALLATION
 2. REFER TO THE MATERIAL SCHEDULE FOR DEVICE TYPE AND COLOR REQUIREMENTS.
 3. COMPLY WITH NECA 1, INCLUDING MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.
 4. COORDINATE THE INSTALLATION OF WIRING DEVICES WITH OTHER TRADES. PROTECT INSTALLED DEVICES AND BOXES AS NECESSARY. DO NOT PLACE WALL FINISH MATERIALS OVER DEVICE BOXES.
 5. INSTALL WIRING DEVICES AFTER WALL PREPARATION, INCLUDING PAINTING IS COMPLETE.
 6. INSTALL DEVICES AND ASSEMBLIES PLUMB AND SECURE.
 7. UNLESS NOTED OTHERWISE MOUNT DEVICES FLUSH WITH LONG DIMENSION VERTICAL AND WITH GROUNDING TERMINAL OF RECEPTACLES ON TOP.
 8. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.

(END OF SECTION 26 27 26)

SECTION 26 28 16 - ENCLOSED SWITCHES

- PART 1 - GENERAL
1. GENERAL REQUIREMENTS
 2. SECTION REQUIREMENTS
 3. SUBMITTALS: NONE REQUIRED.
- PART 2 - PRODUCTS
1. GENERAL REQUIREMENTS
 2. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ROUGH-IN AND PURCHASING OF ALL ENCLOSED SWITCHES AND CIRCUIT BREAKERS. FIELD-VERIFY CLEARANCES AS REQUIRED IN NFPA 70.
 3. FUSIBLE SWITCHES
 4. FUSIBLE SWITCHES SHALL BE HEAVY DUTY TYPE.
 5. SINGLE-THROW, THREE-POLE WITH VOLTAGES AND AMPACITY AS NOTED ON THE PLANS AND AS REQUIRED.
 6. C, UL 98 AND NEMA KS 1, HORSEPOWER RATED, WITH CLIPS OR BOLT PADS TO ACCOMMODATE INDICATED FUSES.
 7. PROVIDE WITH A LOCKABLE HANDLE, INTEGRAL TO THE BOX WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.
 8. PROVIDE A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR WHEN THE HANDLES ARE IN THE "ON POSITION."
 9. PROVIDE NEMA 1, GENERAL PURPOSE ENCLOSURE AT INDOOR LOCATIONS. PROVIDE NEMA 3R WEATHERPROOF ENCLOSURE FOR SWITCHES LOCATED AT OUTDOOR LOCATIONS.
 10. ENCLOSURES SHALL BE GRAY BAKED ENAMEL PAINT, ELECTRODEPOSITED ON CLEANED, PHOSPHATIZED STEEL.
 11. PROVIDE WITH EQUIPMENT GROUND KIT (WHERE REQUIRED), NEUTRAL KIT AND ISOLATED GROUND KIT (WHERE REQUIRED).
 12. PROVIDE CLASS R FUSES, SIZED AS NOTED ON THE PLANS. PROVIDE CLASS R FUSE KIT TO REJECT FUSES OTHER THAN TYPE R. THE SHORT CIRCUIT RATING OF THE SWITCHES SHALL BE 200,000 RMS SYMMETRICAL AMPS.
 13. LUGS SHALL BE MECHANICAL TYPE, SUITABLE FOR THE NUMBER, SIZE AND CONDUCTOR MATERIAL. LUGS SHALL BE UL LISTED FOR 75 DEGREES C.
 14. PROVIDE SERVICE-RATED SWITCHES ON ALL SERVICE ENTRANCE EQUIPMENT.
 15. NONFUSIBLE SWITCHES
 16. NONFUSIBLE SWITCHES SHALL BE HEAVY DUTY TYPE.
 17. SINGLE-THROW, THREE-POLE WITH VOLTAGES AND AMPACITY AS NOTED ON THE PLANS AND AS REQUIRED.
 18. C, UL 98 AND NEMA KS 1, HORSEPOWER RATED.
 19. PROVIDE WITH A LOCKABLE HANDLE, INTEGRAL TO THE BOX WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.
 20. PROVIDE A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR WHEN THE HANDLES ARE IN THE "ON POSITION."
 21. PROVIDE NEMA 1, GENERAL PURPOSE ENCLOSURE AT INDOOR LOCATIONS. PROVIDE NEMA 3R WEATHERPROOF ENCLOSURE FOR SWITCHES LOCATED AT OUTDOOR LOCATIONS.
 22. ENCLOSURES SHALL BE GRAY BAKED ENAMEL PAINT, ELECTRODEPOSITED ON CLEANED, PHOSPHATIZED STEEL.
 23. PROVIDE WITH EQUIPMENT GROUND KIT (WHERE REQUIRED), NEUTRAL KIT AND ISOLATED GROUND KIT (WHERE REQUIRED). ALL ACCESSORIES SHALL BE INTERNALLY MOUNTED, AND LABELED FOR THE INTENDED USE.
 24. LUGS SHALL BE MECHANICAL TYPE, SUITABLE FOR THE NUMBER, SIZE AND CONDUCTOR MATERIAL. LUGS SHALL BE UL LISTED FOR 75 DEGREES C.
 25. PROVIDE SERVICE-RATED SWITCHES ON ALL SERVICE ENTRANCE EQUIPMENT.

- PART 3 - EXECUTION
1. INSTALLATION
 2. COORDINATE LAYOUT AND INSTALLATION OF SWITCHES AND COMPONENTS WITH EQUIPMENT SERVED AND ADJACENT SURFACES. MAINTAIN REQUIRED WORKSPACE CLEARANCES AND REQUIRED CLEARANCES TO MAINTAIN ACCESS TO AND FUNCTIONING OF EQUIPMENT.
 3. COMPLY WITH NFPA 70 AND NECA 1.
 4. LABEL EACH ENCLOSURE WITH ENGRAVED METAL OR LAMINATED PLASTIC NAMEPLATE.
 5. ADJUST ALL MOVING PARTS AND OPERABLE COMPONENTS TO FUNCTION SMOOTHLY AND LUBRICATE AS RECOMMENDED BY THE MANUFACTURER.

(END OF SECTION 26 28 16)

SECTION 26 51 19 - LIGHTING

- PART 1 - GENERAL
1. GENERAL REQUIREMENTS
 2. ALL LIGHTING FIXTURES SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY AND MARKED FOR INTENDED LOCATION AND APPLICATION.
 3. LIGHTING SHALL COMPLY WITH ENERGY CODE OF THE AUTHORITY HAVING JURISDICTION.
- PART 2 - PRODUCTS
1. GENERAL
 2. MATERIALS
 3. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES, DESCRIPTIONS AND LAMP/BALLAST REQUIREMENTS.
 4. METAL PARTS SHALL BE FREE OF BURRS AND SHARP CORNERS AND EDGES.
 5. SHEET METAL SHALL BE STEEL UNLESS NOTED OTHERWISE.
 6. CFORM AND SUPPORT TO PREVENT WARPING AND SAGGING.
 7. DOORS, FRAMES AND OTHER INTERNAL ACCESS SHALL BE SMOOTH OPERATING, FREE OF LIGHT LEAKAGE UNDER OPERATING CONDITIONS AND DESIGNED TO PERMIT RELAMPING WITHOUT USE OF TOOLS. DESIGNED TO PREVENT DOORS, FRAMES LENSES, DIFFUSERS AND OTHER COMPONENTS FROM FALLING ACCIDENTALLY DURING RELAMPING WHEN SECURED IN OPERATING POSITION.
 8. LUMINAIRE SUPPORT
 9. PROVIDE SUPPORT FOR ALL LUMINAIRES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, NFPA 70 AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- PART 3 - EXECUTION
1. INSTALLATION
 2. COORDINATE INSTALLATION WITH WORK OF ALL OTHER TRADES. ACCOMMODATE HANGERS AND OTHER REQUIREMENTS AS NECESSARY.
 3. INSTALL LUMINAIRES LEVEL, PLUMB AND SQUARE WITH CEILINGS AND WALLS.
 4. SUPPORTS SHALL BE SIZED AND RATED FOR LUMINAIRE WEIGHT.
 5. SUPPORT LIGHTING FIXTURES SO THEY WILL NOT FALL OR SAG. SUPPORT LIGHTING FIXTURE SUCH THAT THE CEILING SHALL NOT BE DEFORMED AFTER MAINTENANCE.
 6. INSTALL LAMPS IN EACH FIXTURE, WHERE NO LAMP IS SPECIFIED, LAMP UNITS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
 7. FLUSH-MOUNTED LUMINAIRES SHALL BE SECURED TO AN OUTLET BOX, ATTACHED TO CEILING STRUCTURAL MEMBERS.
 8. WALL-MOUNTED LUMINAIRES SHALL BE ATTACHED TO STRUCTURAL MEMBERS IN WALLS OR ATTACHED TO BACKING PLATE ATTACHED TO WALL STRUCTURAL MEMBERS. DO NOT ATTACH LUMINAIRES DIRECTLY TO GYPSUM BOARD.
 9. CEILING-GRID MOUNTED LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF THE CEILING SYSTEM. DO NOT SUPPORT OR ATTACH LIGHTING TO SUSPENDED CEILING SYSTEMS.
 10. SUSPENDED LUMINAIRES SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 11. WIRE LIGHTING FIXTURES IN ACCORDANCE WITH SECTION 26 05 19, THE MATERIAL SCHEDULE AND SUCH THAT CEILING PANELS, ACCESS PANELS, DIFFUSERS AND OTHER CEILING ELEMENTS MAY BE REMOVED.

(END OF SECTION 26 51 19)

ELECTRICAL GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL ELECTRICAL SHEETS
2. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. REFER TO THE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
3. WIRING SHALL BE (2#12, #12, IN 3/4" UNLESS NOTED OTHERWISE.
4. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
5. EMERGENCY EGRESS LIGHTS AND ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL LOCAL SWITCHING.
6. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
7. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS OR IN RACEWAYS.
8. THE TERM "FURNISH" MEANS TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY AND INSTALLATION AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.
9. PROVIDE ALL REQUIRED FIRESTOPPING AND SLEEVES AS REQUIRED TO MAINTAIN THE FIRE RATING OF ALL LINES/ET PIPING, CONTROL AND POWER WIRING AND ALL OTHER SYSTEMS PENETRATING FIRE-RATED ASSEMBLIES.
10. PROVIDE HILTI FIRESTOP BOX INSERTS ON ALL ELECTRICAL BOXES LOCATED IN FIRE-RATED WALLS.

EE PROJ #231387



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**FOR
CONSTRUCTION**

PROJECT NAME:

**GUNTHER TOODY'S
REMODEL**

PROJECT ADDRESS:

**19502 E PARKER
SQUARE DR.
PARKER, CO 80134**

ISSUE RECORD

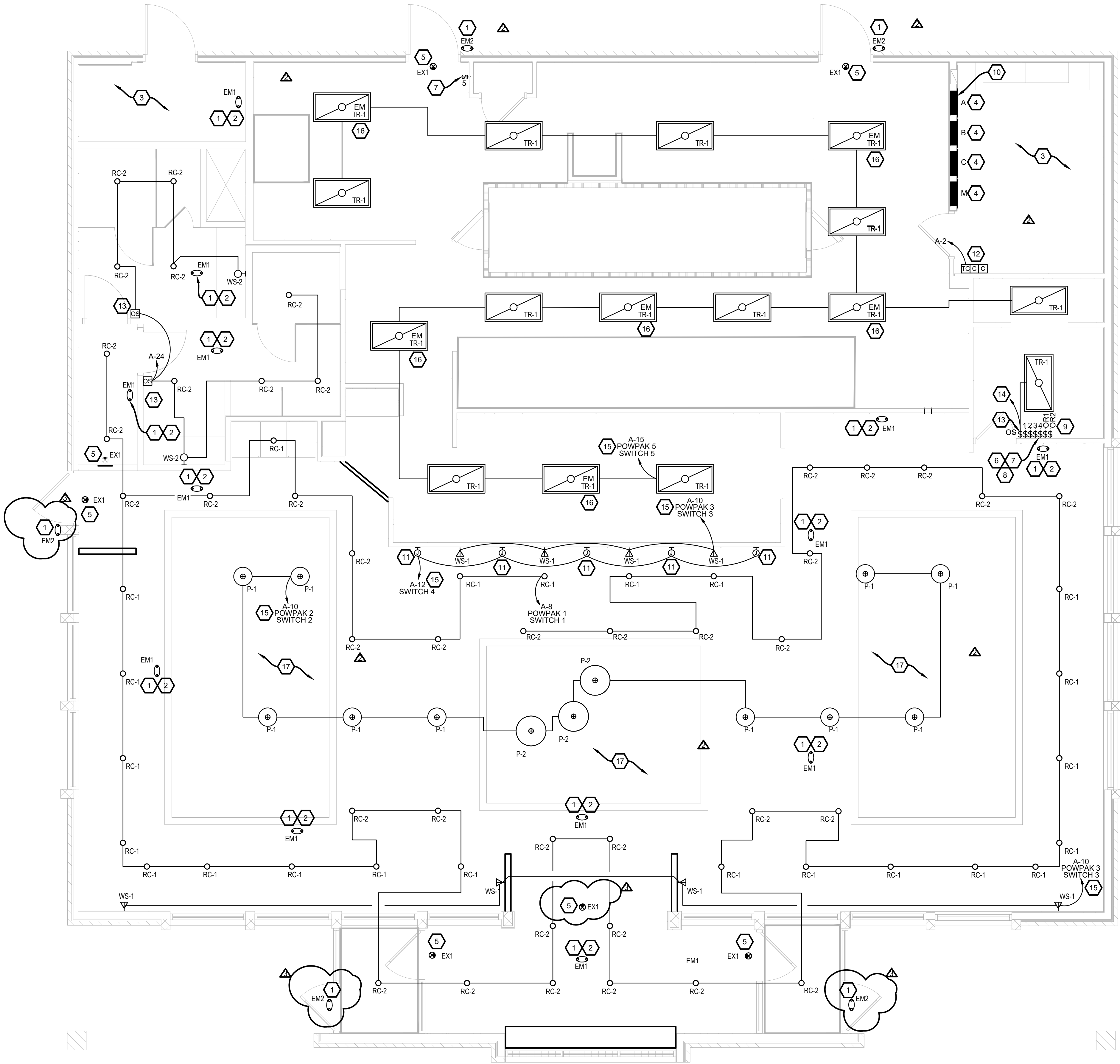
DATE	DESCRIPTION
05/17/2022	BLDG PERMIT SUBMITTAL

REVISIONS

REV.	DATE	DESCRIPTION
1	08/29/22	CLIENT CHANGES
2	04/17/24	CITY COMMENTS
3	06/04/24	CITY COMMENTS

**ELECTRICAL
SPECIFICATIONS**

E010



1 ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"

CODED NOTES

- EMERGENCY FIXTURES SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE LOCAL GENERAL LIGHTING CIRCUIT SERVING THE AREA TO PROVIDE CONTINUOUS EMERGENCY ILLUMINATION PER THE NEC.
- EMERGENCY LIGHT FIXTURE SHALL BE CEILING-MOUNTED, CENTERED BETWEEN LIGHTING FIXTURES.
- EXISTING LIGHTING AND CONTROLS IN AREA TO REMAIN.
- LOCATION OF EXISTING PANELBOARD.
- EXIT SIGNS SHALL BE CONNECTED THROUGH THE UNSWITCHED LEG OF THE LOCAL GENERAL LIGHTING CIRCUIT SERVING THE AREA TO PROVIDE CONTINUOUS EMERGENCY ILLUMINATION PER THE NEC. VERIFY MOUNTING HEIGHT OF THE EXIST SIGN PRIOR TO ROUGH-IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED.
- LOW-VOLTAGE LIGHT SWITCHES (SWITCH 1&2) PAIRED WITH THE ROOM CONTROLLERS AT 48" AFF. REFER TO LIGHT FIXTURE SWITCH SCHEDULE AND LIGHTING CONTROL DETAIL FOR MORE INFORMATION. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL LIGHT SWITCHES AT 48" AFF IN LOCATION SHOWN. REFER TO LIGHT SWITCH SCHEDULE FOR MORE INFORMATION.
- THE GENERAL CONTRACTOR SHALL PROVIDE AN ALTERNATE BID TO PROVIDE AN ALTERNATE SWITCHED LIGHTING CONTROL OF THE GENERAL LIGHTING IN THE DINING AND SERVICE AREAS (SERVED BY ROOM CONTROLLED AND B).
- 2-HOUR SPRING-LOADED OVERRIDE SWITCH SHALL BE MOUNTED AT 48" AFF. REFER TO THE SCHEDULES ON SHEET 300 AND E400 FOR MORE INFORMATION.
- PROVIDE ROOM CONTROLLER MOUNTED ON WALL ABOVE PANELBOARDS. REFER TO THE ROOM CONTROLLER SCHEDULE FOR MORE INFORMATION. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- JUNCTION BOX FOR SHADOW BOX. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH THE VENDOR PRIOR TO ROUGH-IN.
- PROVIDE TIMECLOCK AND CONACTORS MOUNTED ON WALL AT 8'-0". FIELD VERIFY EXACT LOCATION.
- PROVIDE WALL-MOUNTED OCCUPANCY SENSOR SWITCH (LUTRON MS-OPS2-WH) FOR CONTROL OF ROOM LIGHTING AS SHOWN. CIRCUIT AS INDICATED AND SET SWITCH TO TURN LIGHTING ON AUTOMATICALLY UPON OCCUPANTS ENTERING THE ROOM. DEVICE SHALL TURN ROOM LIGHTING OFF AFTER 15 MINUTES OF VACANCY.
- CONNECT TO CIRCUIT PREVIOUSLY SERVING AREA.
- WIRE LIGHTING THROUGH THE LIGHTING CONTROL CONTACTOR AS DETAILED IN THE LIGHTING CONTROL DETAILS.
- LIGHTING FIXTURES TAGGED AS "EM" SHALL HAVE A FACTORY INSTALLED BATTERY BACKUP. WIRE FIXTURES SUCH THAT DURING NORMAL OPERATIONS, THE FIXTURE IS CONTROLLED BY THE LIGHT SWITCH AND DURING POWER FAILURES, THE EMERGENCY BACKUP IS ENERGIZED.
- EXISTING DINING ROOM LIGHTING TO REMAIN. FIELD VERIFY. LIGHTING AND CIRCUITING SHOWN FOR REFERENCE ONLY.

GENERAL NOTES

- A. UNLESS NOTED OTHERWISE, THE TERM "TENANT" SHALL BE IN REFERENCE TO GUNTHER TOODY'S.
- B. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENFORCED ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
- C. GENERAL NOTES APPLY TO ALL ELECTRICAL SHEETS.
- D. WIRING SHALL BE (2) #12, #12 G. IN 3/4" C. UNLESS NOTED OTHERWISE OR AS REQUIRED PER VOLTAGE DROP REQUIREMENTS OF THE NEC.
- E. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
- F. EMERGENCY EGRESS LIGHTS AND ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL LOCAL SWITCHING AND AS REQUIRED PER THE NEC.
- G. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
- H. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PRINING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.

SYMBOLS & ABBREVIATIONS

- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- HOME RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- X-Y
- #
- ⊕
- Ⓜ
- Ⓢ
- Ⓢ
- Ⓢ
- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL OR IN A RACEWAY
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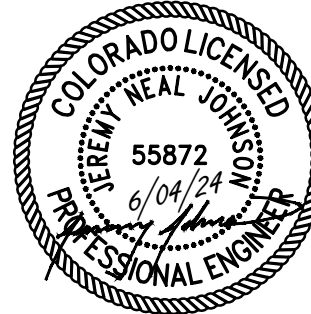
ELECTRICAL ABBREVIATIONS

(D)	DEMOLISHED
(E)	EXISTING
(R)	RELOCATED
A	AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
A.O.R.	ARCHITECT OF RECORD
B.F.F.	BELOW FINISHED FLOOR
C	CONDUIT
E.O.R.	ENGINEER OF RECORD
G	GROUND
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CURRENT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
KES	KITCHEN EQUIPMENT SUPPLIER
MCA	MINIMUM CIRCUIT AMPACITY
MOC	MAXIMUM OVERCURRENT PROTECTION
NL	NIGHT LIGHT
S	SURFACE MOUNTED
UNO	UNLESS NOTED OTHERWISE
V	VOLT
WP	WEATHERPROOF

EE PROJ #231387



EXCELLENCE IN ENGINEERING
12005 Antelope Trail
Parker, Colorado 80138
303-748-1189
info@eeparker.com



**FOR
CONSTRUCTION**

PROJECT NAME:

**GUNTHER TOODY'S
REMODEL**

PROJECT ADDRESS:

**19502 E PARKER
SQUARE DR.
PARKER, CO 80134**

ISSUE RECORD

REV.	DATE	DESCRIPTION
1	08/29/22	CLIENT CHANGES
2	04/17/24	CITY COMMENTS
3	06/04/24	CITY COMMENTS

REVISIONS

REV.	DATE	DESCRIPTION
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**ELECTRICAL
LIGHTING
PLAN**

E100

CODED NOTES

- EXISTING DEVICES AND CIRCUITING IN AREA TO REMAIN. NO WORK TO BE DONE UNLESS NOTED OTHERWISE.
- EXISTING W.I.C. COOLER LIGHTING AND CONTROLS TO REMAIN.
- EXISTING KITCHEN HOODS, ANSUL SYSTEM, EXHAUST FANS AND CONTROL WIRING TO REMAIN.
- E.C. SHALL WIRE RECEPTACLES UNDER KITCHEN HOOD THROUGH CONTACTOR TO SHUNT TRIP CIRCUIT AND ACTIVATE ANSUL SYSTEM UPON TRIP.
- INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN. PROVIDE WIRING TO THE WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES. SEAL INTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN ENVELOPE.
- LOCATION OF EXISTING ELECTRICAL PANELS. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- ELECTRICAL SERVICE ENTRANCE AREA. REFER TO THE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COORDINATE INSTALLATION WITH SITE CONDITIONS.
- JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH THE ARCHITECT, OWNER'S REPRESENTATIVE AND THE SIGN INSTALLER (IF APPLICABLE) PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE TIMECLOCK. REFER TO THE TIMECLOCK DETAIL FOR MORE INFORMATION.
- SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL NO GREATER THAN 18" ABOVE THE MAIN STOREFRONT WINDOW. RECEPTACLES SHALL BE ALIGNED WITH MULLIONS OR CENTERED ON PANES.
- PROVIDE POWER FOR WALK-IN EVAPORATOR FAN. COORDINATE REQUIREMENTS WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- UNIT SHALL BE FURNISHED WITH AN INTEGRAL DISCONNECT SWITCH.
- UNIT SHALL BE FURNISHED WITH AN INTEGRAL GFCI RECEPTACLE WITH WEATHERPROOF ENCLOSURE. CIRCUIT AS INDICATED.
- DOOR TO BE EQUIPED WITH LISTED PANIC HARDWARE PER NEC 110.26(C)(3).

PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR ALL KITCHEN BRANCH CIRCUITS 125V - 250V SINGLE PHASE, 50AMPS OR LESS AND THREE PHASE BRANCH CIRCUITS RATED 150V OR LESS TO GROUND, 100AMPS OR LESS. REFERENCE (NEC 2023) ARTICLE 210.8(A)-(F). ALL GFCI RECEPTACLES TO BE READILY ACCESSIBLE. PROVIDE GFCI BREAKERS IF REQUIRED.

GENERAL NOTES

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SYMBOLS & ABBREVIATIONS

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- CONDUIT CONCEALED BELOW THE SLAB
- HOME RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- CODED NOTE (SEE SAME SHEET FOR NOTE MEANING)
- CONNECT TO EXISTING
- JUNCTION BOX
- ELECTRICAL PANELBOARD
- SINGLE-POLE, SINGLE-THROW LIGHT SWITCH
- WEATHERPROOF SWITCH
- MANUAL STARTER WITH PILOT LIGHT
- DISCONNECT SWITCH:
- X = SWITCH RATING
- Y = FUSE SIZE (NF=NON-FUSED)
- Z = NUMBER OF POLES
- NEMA 5-20R 1-PLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE WITH USB
- NEMA 5-20R DOUBLE-DUPLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE. ISOLATED GROUND OR GFI
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 OUTLET. REFER TO PLAN FOR JACK QUANTITY.

ELECTRICAL ABBREVIATIONS

(D)	DEMOLISHED
(E)	EXISTING
(R)	RELOCATED
A	AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
A.O.R.	ARCHITECT OF RECORD
B.F.F.	BELOW FINISHED FLOOR
C	CONDUIT
E.O.R.	ENGINEER OF RECORD
G	GROUND
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CURRENT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
KES	KITCHEN EQUIPMENT SUPPLIER
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NL	NIGHT LIGHT
S	SURFACE MOUNTED
UNO	UNLESS NOTED OTHERWISE
V	VOLT
WP	WEATHERPROOF

COORDINATE ALL KITCHEN EQUIPMENT RECEPTACLE HEIGHTS AND REQUIREMENTS WITH KES DRAWINGS

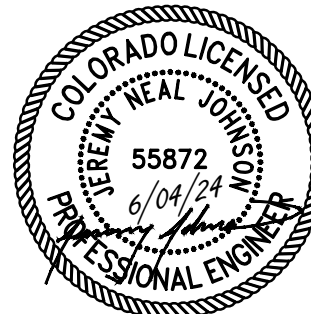
ELECTRICAL POWER PLAN

E200

EE PROJ #231387



EXCELLENCE IN ENGINEERING
12005 Antelope Trail
Parker, Colorado 80138
303-748-1189
info@eeparker.com



FOR
CONSTRUCTION

PROJECT NAME:

GUNTHER TOODY'S
REMODEL

PROJECT ADDRESS:

19502 E PARKER
SQUARE DR.
PARKER, CO 80134

ISSUE RECORD

REV.	DATE	DESCRIPTION
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2	04/17/24	CITY COMMENTS
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ELECTRICAL
POWER
PLAN

E200

CODED NOTES

- 1. EXISTING GFCI RECEPTACLES IN WEATHERPROOF ENCLOSURE ON ROOF TO REMAIN.
- 2. EXISTING ROOFTOP UNIT TO REMAIN.
- 3. EXISTING EXHAUST FAN TO REMAIN.
- 4. EXISTING EVAPORATIVE COOLER TO REMAIN.
- 5. UNIT SHALL BE FURNISHED WITH AN INTEGRAL DISCONNECT SWITCH.
- 6. UNIT SHALL BE FURNISHED WITH AN INTEGRAL GFCI RECEPTACLE WITH WEATHERPROOF ENCLOSURE. CIRCUIT AS INDICATED.

GENERAL NOTES

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- CODED NOTE (SEE SAME SHEET FOR NOTE MEANING)
- CONNECT TO EXISTING
- JUNCTION BOX
- ELECTRICAL PANELBOARD
- SINGLE-POLE, SINGLE-THROW LIGHT SWITCH
- WEATHERPROOF SWITCH
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- NEMA 5-20R DUPLEX RECEPTACLE WITH USB
- NEMA 5-20R DOUBLE-DUPLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE. ISOLATED GROUND OR GFI
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 OUTLET. REFER TO PLAN FOR JACK QUANTITY.

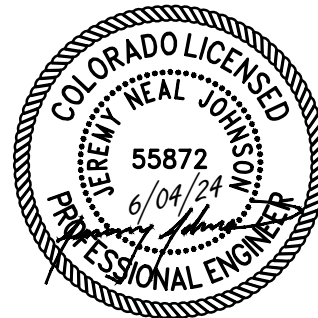
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(R)	RELOCATED
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AHJ	AUTHORITY HAVING JURISDICTION
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G	GROUND
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KES	KITCHEN EQUIPMENT SUPPLIER
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NL	NIGHT LIGHT
S	SURFACE MOUNTED
UNO	UNLESS NOTED OTHERWISE
V	VOLT
WP	WEATHERPROOF

EE PROJ #231387



EXCELLENCE IN ENGINEERING
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**FOR
CONSTRUCTION**

PROJECT NAME:

**GUNTHER TOODY'S
REMODEL**

PROJECT ADDRESS:

**19502 E PARKER
SQUARE DR.
PARKER, CO 80134**

ISSUE RECORD

REV.	DATE	DESCRIPTION
05/17/2022		BLDG PERMIT SUBMITTAL

REVISIONS

REV.	DATE	DESCRIPTION
1	08/29/22	CLIENT CHANGES
2	04/17/24	CITY COMMENTS
Δ	06/04/24	CITY COMMENTS

**ELECTRICAL
POWER ROOF
PLAN**

E201

1 ELECTRICAL POWER ROOF PLAN
1/4" = 1'-0"

PANEL: MDP (EXISTING) 800A MLO		TYPE: SWITCHBOARD	MOUNTING: 120/208 3 PHASE/4 WIRE +GND		SURFACE MFG: AS APPROVED	NEMA 1 AIC RATING: 22K		
CCT	SERVES	VA	OCP	PH	CCT	SERVES	VA	OCP
1	PANEL A	3,012	100/3	A	2	PANEL B	20,472	200/3
3	-	5,292	-	B	4	-	19,248	-
5	-	5,480	-	C	6	-	13,736	-
7	PANEL C	16,803	200/3	A	8	PANEL M	17,416	200/3
9	-	15,063	-	B	10	-	19,456	-
11	-	13,837	-	C	12	-	19,456	-

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CONNECTED		DEMAND	
CONTINUOUS	11,804	1.25	14,755
RECEPTACLES	3,960	1.00	3,960
KITCHEN EQUIP.	92,698	0.65	60,254
HVAC	60,615	1.00	60,615
NON-CONTINUOUS	200	1.00	200
LARGEST MOTOR	19,800	0.25	4,950
TOTAL VA	169,277		144,734
TOTAL AMPS	470		402

LOAD (VA) PER PHASE - CONNECTED	
PHASE A	57,703
PHASE B	59,059
PHASE C	52,509

PANEL: A (EXISTING) 225A MLO		TYPE: PANELBOARD	MOUNTING: 120/208 3 PHASE/4 WIRE +GND		SURFACE MFG: EXISTING	NEMA 1 AIC RATING:		
CCT	SERVES	VA	OCP	PH	CCT	SERVES	VA	OCP
1	SPARE		20/1	A	2	PHOTOCELL/CONTACTOR	200	20/1
3	SPARE		20/1	B	4	STOREFRONT SIGN	1,200	20/1
5	SPARE		20/1	C	6	STOREFRONT RCPT	1,080	20/1
7	SERVICE LINE LTG	600	20/1	A	8	DINING DOWNLIGHTS	562	20/1
9	N. COOK LIGHTS	600	20/1	B	10	DINING PENDANTS	78	20/1
11	DISH & MECH LTG	600	20/1	C	12	SHADOW BOXES	600	20/1
13	S.COOK LYG	600	20/1	A	14	HALLWAY LIGHTING	50	20/1
15	LKITCHEN LYG	714	20/1	B	16	OUTSIDE LTG	500	20/1
17	SPARE		20/1	C	18	POLE LIGHTS	1,000	20/1
19	SPARE		20/1	A	20	POLE LIGHTS	1,000	20/1
21	PYLON SIGN	1,200	20/1	B	22	POLE LIGHTS	1,000	20/1
23	PYLON SIGN	1,200	20/1	C	24	RESTROOM LTG/EF-4	300	20/1

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CONNECTED		DEMAND	
CONTINUOUS	11,804	1.25	14,755
RECEPTACLES	1,080	1.00	1,080
KITCHEN EQUIP.	0	0.65	0
HVAC	0	1.00	0
NON-CONTINUOUS	200	1.00	200
LARGEST MOTOR	0	0.25	0
TOTAL VA	13,084		16,035
TOTAL AMPS	36		45

LOAD (VA) PER PHASE - CONNECTED	
PHASE A	3,012
PHASE B	5,292
PHASE C	5,480

E = EXISTING TO REMAIN

PANEL: B (EXISTING) 225A MLO		TYPE: PANELBOARD	MOUNTING: 120/208 3 PHASE/4 WIRE +GND		SURFACE MFG: EXISTING	NEMA 1 AIC RATING:		
CCT	SERVES	VA	OCP	PH	CCT	SERVES	VA	OCP
1	E115 ICE DISPENSER	600	20/1	A	2	E102 EXP TABLE	540	20/1
3	E118 CONV. RECPT	180	20/1	B	4	E107 KDS	360	20/1
5	E120 COFFEE WARMER	176	20/1	C	6	E108 PRINTER	360	20/1
7	E125 REACH-IN FRIDG	300	20/1	A	8	E106 HOT WELL	1,800	20/2
9	E22 KES EQPMNT	360	20/1	B	10	-	1,800	-
11	E126 CONV. RECPT	360	20/1	C	12	E109 CONV. RECPT	360	20/1
13	E132 CAPPUCINO MACHINE	1,800	20/1	A	14	E129 P.O.S. MONITOR	360	20/1
15	E131 COFFEE BREWER	1,800	20/2	B	16	OFFICE RECPT	360	20/1
17	-	1,800	-	C	18	E130 P.O.S. PRINTER	360	20/1
19	E131 COFFEE/TEA BREWER	4,080	40/2	A	20	E140 ICE CREAM	600	20/1
21	-	4,080	-	B	22	E139/E136 FRIDG RAIL	700	20/1
23	E126 CONV. RECPT	360	20/1	C	24	E142/E143	1,080	20/1
25	E115 ICE DISPENSER	600	20/1	A	26	E143 MIXER	900	20/1
27	E07 FOOD SLICER	400	20/1	B	28	E136 CONV. RECPT	360	20/1
29	E73 PREP TABLE	360	20/1	C	30	E148/E149	336	20/1
31	E73 PREP TABLE	360	20/1	A	32	E81 PREP TABLE	360	20/1
33	E17 CARB	864	20/1	B	34	E79 MIXER	400	20/1
35	E16 B.I.B.	600	20/1	C	36	SPACE		
37	E20 BEER SYSTEM	1,812	20/1	A	38	E45 GARBAGE DISPOSAL	6,600	20/3
39	E25 ICE MACHINE	984	20/2	B	40	-	6,600	-
41	-	984	-	C	42	-	6,600	-

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CONNECTED		DEMAND	
CONTINUOUS	0	1.25	0
RECEPTACLES	2,520	1.00	2,520
KITCHEN EQUIP.	51,176	0.65	33,264
HVAC	0	1.00	0
NON-CONTINUOUS	0	1.00	0
LARGEST MOTOR	19,800	0.25	4,950
TOTAL VA	53,696		40,734
TOTAL AMPS	149		113

LOAD (VA) PER PHASE - CONNECTED	
PHASE A	20,472
PHASE B	19,248
PHASE C	13,736

E = EXISTING TO REMAIN
R = PROVIDE GFCI BREAKER

LIGHTING FIXTURE SCHEDULE												
TAG	DESCRIPTION	MANUFACTURER	MODEL	LAMP(S)	MOUNTING	VOLTS	WATTS	DIMMING STYLE	FURNISHED BY	INSTALLED BY	REMARKS	
EM1	THERMOPLASTIC EMERGENCY LIGHTING UNIT WITH 90 MINUTE NICAD BATTERY BACK-UP. UL 924 COMPLIANT	SURE-LITES	APELH2	INTEGRAL LED	SURFACE	120	0.6	N/A	GC	GC		
EM2	POLYCARBONATE EMERGENCY LIGHTING UNIT WITH 90 MINUTE NICAD BATTERY BACK-UP. UL 924 COMPLIANT	SURE-LITES	SELW25NCBZ	INTEGRAL LED	SURFACE	120	0.6	N/A	GC	GC		
EX1	EDGE-LIT EXIT SIGN WITH STEEL HOUSING AND TRIM PLATE, RED LETTERS, CLEAR SINGLE FACE, UNIVERSAL MOUNTING, UNIVERSAL ARROWS, 6" LETTERS AND 90 MINUTE BATTERY BACKUP. UL 924 COMPLIANT	SURE-LITES	APCH7UR	INTEGRAL LED	UNIVERSAL	120	3.6	N/A	GC	GC		
P-1	DECORATIVE MIRROR GLOBE PENDANT LIGHT	EUROFASE	20454-012	TCP L40A19D2541K	PENDANT	120	6.0	PHASE	GC	GC		
P-2	DECORATIVE SAUCER PENDANT LIGHT	MAXIM LIGHTING	12190WTPC	TCP L40A19D2541K	PENDANT	120	6.0	PHASE	GC	GC		
RC-1	LED RECESSED CAN LIGHT	LOTUS LED LIGHTS	LRG3-40K-WH-150 + FRP312	A-19	TECTUM CEILING	120	7.5	TRIAC	GC	GC		
RC-2	LED RECESSED CAN LIGHT	LOTUS LED LIGHTS	ADLED-4-S15W-40K-T4-RW + FRP312	90 CRI; INTEGRAL 4000K LED	TECTUM CEILING	120	15.0	TRIAC	GC	GC		
WS-1	WALL SCONCE	TROY LIGHTING	B7007-TBK	TCP L40A19D2541K	WALL	120	6.0	N/A	GC	GC		
WS-2	WALL SCONCE	OWNER PROVIDED	OWNER PROVIDED	INTEGRAL	WALL	120	40.0	N/A	GC	GC		
TR-1	2X4 LED	LITHONIA LIGHTING	CPX-2X4-6000LM-80CRI-40K-A12-MIN10-ZT-MVOLT	INTEGRAL LED	TECTUM CEILING	120	43.3	0-10V	GC	GC	FIXTURES MARKED 'EM' PROVIDED WITH E10WLCP BATTERY PACK	

LIGHT SWITCH SCHEDULE							
TAG	PANEL	CIRCUIT	MANUFACTURER	MODEL	FURNISHED BY	INSTALLED BY	
1		2	WATTSTOPPER	LMDM-101	GC	GC	
2			WATTSTOPPER	LMDM-101	GC	GC	
3	A	10	PASS AND SEYMOUR	2623W	GC	GC	
4	A	12	PASS AND SEYMOUR	2623W	GC	GC	
5	A	15	WATTSTOPPER	LMDM-101	GC	GC	
OR1	A	2	INTERMATIC	FD2HW	GC	GC	
OR2	A	2	INTERMATIC	FD2HW	GC	GC	

POWPAK SCHEDULE							
TAG	PANEL	CIRCUIT	MANUFACTURER	MODEL	FURNISHED BY	INSTALLED	ASSOCIATED SWITCH
1	A	8	WATTSTOPPER	LMRC-221	GC	GC	1
2	A	10	WATTSTOPPER	LMRC-221	GC	GC	2
3	A	10	WATTSTOPPER	LMRC-221	GC	GC	3
5	A	15	WATTSTOPPER	LMRC-210	GC	GC	5

MATERIAL SCHEDULE		
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
	OUTDOOR, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	OUTDOOR OR INDOOR, DAMP LOCATIONS, CONNECTION TO VIBRATING EQUIPMENT	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
CONDUITS	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING (EMT)
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED	ELECTRICAL METALLIC TUBING; FLEXIBLE METAL CONDUIT OR METAL CLAD CABLE
	INDOOR DRY LOCATIONS, CONNECTION TO VIBRATING EQUIPMENT	FLEXIBLE METAL CONDUIT
	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC)
	IN KITCHEN (NO TILE SURFACES), OFFICE OR NON-PUBLIC SPACE	GRAY DECORA DEVICE WITH STAINLESS STEEL COVER PLATE
WIRING DEVICES	IN KITCHEN (TILE SURFACES)	WHITE DECORA DEVICE WITH WHITE COVER PLATE
	IG OR IG/GFI RECEPTACLES	GRAY DECORA DEVICE WITH STAINLESS STEEL COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DECORA DEVICE WITH WHITE COVER PLATE

LOAD SUMMARY				
PANEL 'A'		120/208V 3PH 4W	CONNECTED VA	DEMAND VA
CONTINUOUS	=	11,804	1.25	14,755
RECEPTACLES	=	1,080	1.00	1,080
KITCHEN	=	0	0.65	0
HVAC	=	0	1.00	0
NON-CONTINUOUS	=	200	1.00	200
LARGEST MOTOR	=	0	0.25	0
SUBTOTAL VA		13,084		16,035 = 45 AMPS @208V 3PH
PANEL 'B'		120/208V 3PH 4W	CONNECTED VA	DEMAND VA
CONTINUOUS	=	0	1.25	0
RECEPTACLES	=	2,520	1.00	2,520
KITCHEN	=	51,176	0.65	33,264
HVAC	=	0	1.00	0
NON-CONTINUOUS	=	0	1.00	0
LARGEST MOTOR	=	19,800	0.25	4,950
SUBTOTAL VA		53,696		40,734 = 113 AMPS @208V 3PH
PANEL 'C'		120/208V 3PH 4W	CONNECTED VA	DEMAND VA
CONTINUOUS	=	0	1.25	0
RECEPTACLES	=	360	1.00	360
KITCHEN	=	41,522	0.65	26,989
HVAC	=	4,287	1.00	4,287
NON-CONTINUOUS	=	1,000	1.00	1,000
LARGEST MOTOR	=	4,287	0.25	1,072
SUBTOTAL VA		46,169		32,708 = 91 AMPS @208V 3PH
PANEL 'M'		120/208V 3PH 4W	CONNECTED VA	DEMAND VA
CONTINUOUS	=	0	1.25	0
RECEPTACLES	=	1,176	1.00	1,176
KITCHEN	=	0	0.65	0
HVAC	=	56,328	1.00	56,328
NON-CONTINUOUS	=	1,000	1.00	1,000
LARGEST MOTOR	=	15,480	0.25	3,870
SUBTOTAL VA		56,328		60,198 = 167 AMPS @208V 3PH
PANEL 'MDP'		120/208V 3PH 4W	CONNECTED VA	DEMAND VA
CONTINUOUS	=	11,804	1.25	14,755
RECEPTACLES	=	3,960	1.00	3,960
KITCHEN	=	92,698	0.65	60,254
HVAC	=	60,615	1.00	60,615
NON-CONTINUOUS	=	200	1.00	200
LARGEST MOTOR	=	19,800	0.25	4,950
TOTAL VA		169,277		144,734 = 402 AMPS @208V 3PH

Δ

PANEL: M (EXISTING) 225A MLO		TYPE: PANELBOARD	MOUNTING: 120/208 3 PHASE/4 WIRE +GND		SURFACE MFG: EXISTING	NEMA 1 AIC RATING:		
CCT	SERVES	VA	OCP	PH	CCT	SERVES	VA	OCP
1	E514 WIC	1,296	20/3	A	2	EC-1		20/1
3	-	1,296	-	B	4	SPARE		20/1
5	-	1,296	-	C	6	ROOF RECPT/WIC LTG		20/1
7	EF'S	1,600	20/3	A	8	E153 WIC EVAP		20/1
9	-	1,600	-	B	10	WIC LTG		20/1
11	-	1,600	-	C	12	SPARE		20/1
13	RTU-3	3,120	30/3	A	14	RTU-4	3,120	30/3
15	-	3,120	-	B	16	-	3,120	-
17	-	3,120	-	C	18	-	3,120	-
19	RTU-2	5,160	50/3	A	20	RTU-1	5,160	50/3
21	-	5,160	-	B	22	-	5,160	-
23	-	5,160	-	C	24	-	5,160	-

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CONNECTED		DEMAND	
CONTINUOUS	0	1.25	0
RECEPTACLES	0	1.00	0
KITCHEN EQUIP.	0	0.65	0
HVAC	56,328	1.00	56,328
NON-CONTINUOUS	0	1.00	0
LARGEST MOTOR	15,480	0.25	3,870
TOTAL VA	56,328		60,198
TOTAL AMPS	156		167

LOAD VA/PHASE		CONNECTED	
PHASE A			17,416
PHASE B			19,456
PHASE C			19,456

E = EXISTING TO REMAIN
P = REPLACE EXISTING CIRCUIT BREAKER WITH NEW BREAKER AND REWIRE CIRCUIT

SERVICE:

AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY = 41,636 A.

FIND $f = \frac{1.73 \times 50 \times 41,636}{3 \times 20,868 \times 208} = 0.277$

FIND $M = \frac{1}{1+f} = 0.783$

SHORT CIRCUIT CURRENT AT I SWITCHBOARD = $M \times$ AVAILABLE S.C.
 $I = 32,615 \text{ A}$

FIND $f = \frac{1.73 \times 20 \times 32,615}{1 \times 7,293 \times 208} = 0.744$

FIND $M = \frac{1}{1+f} = 0.573$

SHORT CIRCUIT CURRENT AT PANEL A = $M \times$ AVAILABLE S.C.
 $I = 18,702 \text{ A}$

FIND $f = \frac{1.73 \times 24 \times 32,615}{1 \times 12,844 \times 208} = 0.507$

FIND $M = \frac{1}{1+f} = 0.664$

SHORT CIRCUIT CURRENT AT PANEL B = $M \times$ AVAILABLE S.C.
 $I = 12,411 \text{ A}$

FIND $f = \frac{1.73 \times 28 \times 12,411}{1 \times 12,844 \times 208} = 0.225$

FIND $M = \frac{1}{1+f} = 0.816$

SHORT CIRCUIT CURRENT AT PANEL C = $M \times$ AVAILABLE S.C.
 $I = 10,131 \text{ A}$

FIND $f = \frac{1.73 \times 32 \times 10,131}{1 \times 12,844 \times 208} = 0.21$

FIND $M = \frac{1}{1+f} = 0.826$

SHORT CIRCUIT CURRENT AT PANEL M = $M \times$ AVAILABLE S.C.
 $I = 8,373 \text{ A}$



E400

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Gunter Toody's
Project Type: New Construction

Construction Site: 19502 E Parker Square Drive
Parker, Colorado 80134
Owner/Agent:
Designer/Contractor: Loren Priest
EE LLC
120005 Antelope Trail
PARKER, Colorado 80138
303-748-1189
loren@eeparker.com

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Dining: Family	4815	0.71	3419
Total Allowed Watts =			3419

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)	E (C X D)
1-Dining: Family				
LED: Type P1: LED MR 6W:	1	10	6	60
LED: Type P2: LED MR 6W:	1	3	6	18
LED: Type RC-1: LED PAR 7W:	1	23	8	172
LED: Type RC-2: LED PAR 15W:	1	40	15	600
LED: Type TR-1: LED Other Fixture Unit 40W:	1	16	43	693
LED: Type WS-1: LED MR 6W:	1	8	6	48
LED: Type WS-2: LED Other Fixture Unit 40W:	1	40	2	80
Total Proposed Watts =			1671	

Interior Lighting PASSES: Design 51% better than code

Interior Lighting Compliance Statement

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

Keith Anderson - Electrical Designer
Name - Title Signature Date 1/5/24

Project Title: Gunter Toody's
Data filename: Report date: 01/05/24
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COMcheck Software Version COMcheckWeb
Inspection Checklist
Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C406 [PR9]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Gunter Toody's
Data filename: Report date: 01/05/24
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22]1	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern ≥ 50 percent.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.1.1 [EL18]1	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces ≤ 300 sq ft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.1.2 [EL19]1	Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.1.3 [EL20]1	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces ≥ 300 sq ft. Have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas ≤ 600 sq ft, within the space. 2) general lighting in each zone permitted to turn on upon occupancy in control zone. 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space. 4) are configured so that general lighting power in each control zone is reduced by $\geq 80\%$ of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.2.1 [EL21]2	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Gunter Toody's
Data filename: Report date: 01/05/24
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4.1 [EL23]2	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces. C405.2.3.1 Daylight-responsive control function and section C405.2.3.2 Sidelit zone.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.5 [EL27]1	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.7 [EL26]2	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.8 [EL27]2	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.9.1 [EL28]2	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.10 [EL29]2	Total voltage drop across the combination of feeders and branch circuits $\leq 5\%$.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.11.1 [EL30]2	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy ≥ 65 lm/W or luminaires with efficacy ≥ 45 lm/W or comply with C405.2.4 or C405.3.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.11.1 [EL31]2	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and $\geq 25\%$ of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Gunter Toody's
Data filename: Report date: 01/05/24
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3.1 [F117]2	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C408.1.1 [F157]1	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C408.2.5 [F116]1	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C408.3 [F133]1	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

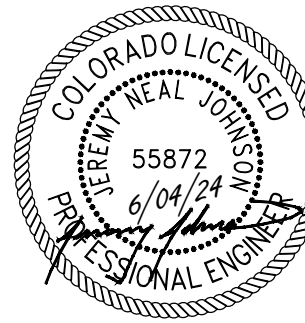
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Gunter Toody's
Data filename: Report date: 01/05/24
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EE PROJ #231387



EXCELLENCE IN ENGINEERING
12005 Antelope Trail
Parker, Colorado 80138
303-748-1189
info@eeparker.com



FOR
CONSTRUCTION

PROJECT NAME:

GUNTHER TOODY'S
REMODEL

PROJECT ADDRESS:

19502 E PARKER
SQUARE DR.
PARKER, CO 80134

ISSUE RECORD

DATE	DESCRIPTION
05/17/2022	BLDG PERMIT SUBMITTAL

REVISIONS

REV.	DATE	DESCRIPTION
1	08/29/22	CLIENT CHANGES
2	04/17/24	CITY COMMENTS
3	06/04/24	CITY COMMENTS

LIGHTING
COMPLIANCE

E500