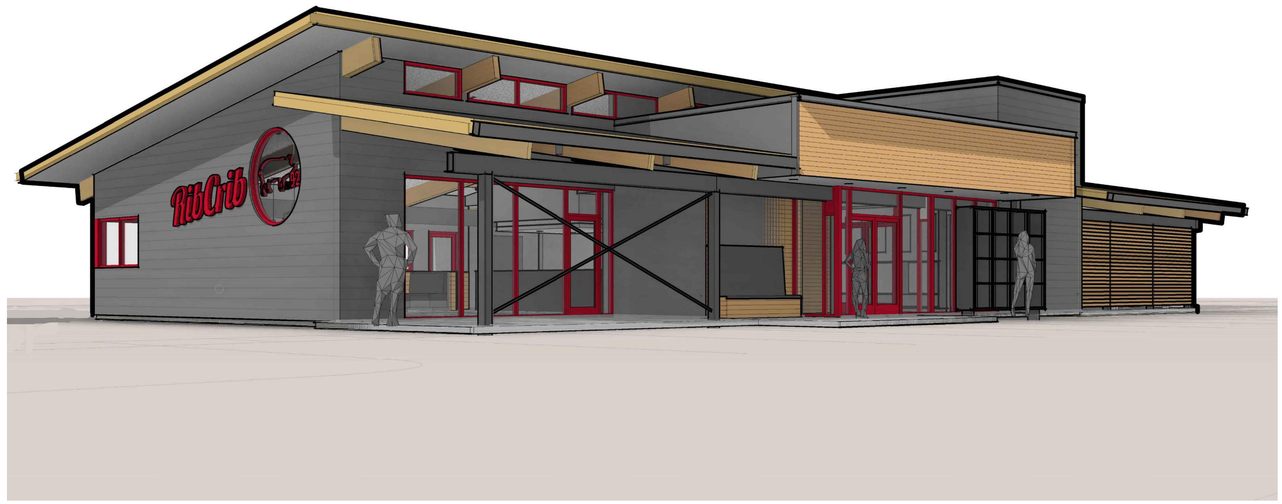

PROJECT SITE	OWNER	ARCHITECT/ENGINEER
GATEWAY CROSSINGS, CENTURION WAY LAKE CITY, FLORIDA 32055	PARKER NEELY CENTURION EQUITY PARTNERS, LLC 2682 NW NOEGEL ROAD LAKE CITY, FLORIDA 32055	NATIONAL RESTAURANT DESIGNERS - NRD 7208 ACC BLVD. SECOND FLOOR RALEIGH, NORTH CAROLINA 27617 TEL:(919)544-0087 FAX:(919)544-9399

SHEET	DESCRIPTION	REVISIONS 1	2	3	4	5
GENERAL						
CS	COVER SHEET					
G000	LIFE SAFETY / OCCUPANCY PLANS & CODE ANALYSIS					
G001	3D ISOMETRIC VIEWS					
G002	GENERAL PROJECT INFORMATION					
STRUCTURAL						
S001	GENERAL NOTES					
S002	SPECIAL INSTRUCTIONS					
S101	FOUNDATION PLAN					
S102	ROOF FRAMING PLAN					
S201	BRACE FRAME ELEVATIONS					
S501	FOUNDATION DETAILS					
S521	FRAMING DETAILS					
S522	WOOD FRAMING DETAILS					
ARCHITECTURAL						
A100	REFERENCE FLOOR PLAN					
A101	REFERENCE FLOOR PLAN					
A102	DIMENSION FLOOR PLAN					
A104	FURNITURE PLAN					
A105	INTERIOR ELEVATIONS					
A106	INTERIOR ELEVATIONS					
A107	BOOTH DETAILS					
A121	REFLECTED CEILING PLAN					
A141	ROOF PLAN					
A201	EXTERIOR ELEVATIONS					
A202	EXTERIOR ELEVATIONS					
A301	BUILDING SECTIONS					
A302	WALL SECTIONS					
A303	WALL SECTIONS					
A304	WALL SECTIONS					
A401	ENLARGED RESTROOM PLAN AND ELEVATIONS					
A501	EXTERIOR DETAILS					
A502	EXTERIOR DETAILS					
A503	EXTERIOR DETAILS					
A521	DOOR DETAILS – EXTERIOR					
A522	DOOR DETAILS – INTERIOR					
A524	DOOR TYPES					
A530	ROOF PENETRATION DETAILS					
A535	ROOF DETAILS					
A541	MILLWORK SECTIONS					
A542	INTERIOR STOREFRONT DETAILS					
A570	ADA PLAN VIEWS					
A571	ADA ELEVATIONS					

A601	FINISH PLAN AND ROOM FINISH SCHEDULE						
A602	DOOR SCHEDULE FRAMES AND TYPES						
A821	MILLWORK CONDITIONS						
AS101	ARCHITECTURAL SITE PLAN						
AS501	SITE DETAILS						
FOOD SERVICE EQUIPMENT							
FS SHEET	PROVIDED BY OTHERS						
PLUMBING							
P001	PLUMBING NOTES AND SCHEDULES						
P101	SANITARY PLAN						
P102	WATER AND GAS PLAN						
P103	PLUMBING RISERS						
P201	PLUMBING ROOF PLAN						
P501	PLUMBING DETAILS						
MECHANICAL							
M001	MECHANICAL NOTES						
M101	MECHANICAL PLAN						
M201	MECHANICAL ROOF PLAN						
M501	MECHANICAL DETAILS						
M601	MECHANICAL SCHEDULES						
M701	HOOD DRAWINGS (SHOP DRAWING FOR REFERENCE ONLY)						
M702	HOOD DRAWINGS (SHOP DRAWING FOR REFERENCE ONLY)						
M703	HOOD DRAWINGS (SHOP DRAWING FOR REFERENCE ONLY)						
M704	HOOD DRAWINGS (SHOP DRAWING FOR REFERENCE ONLY)						
M705	HOOD DRAWINGS (SHOP DRAWING FOR REFERENCE ONLY)						
M706	HOOD DRAWINGS (SHOP DRAWING FOR REFERENCE ONLY)						
M707	HOOD DRAWINGS (SHOP DRAWING FOR REFERENCE ONLY)						
M708	HOOD DRAWINGS (SHOP DRAWING FOR REFERENCE ONLY)						
ELECTRICAL							
E001	ELECTRICAL NOTES						
E101	LIGHTING PLAN						
E201	POWER PLAN						
E301	ROOF POWER PLAN						
E501	ELECTRICAL DETAILS AND SCHEDULES						
E601	PANELS SCHEDULE AND LINE DIAGRAM						
ES111	ELECTRICAL SITE PLAN						
ES112	SITE PHOTOMETRIC (FOR REFERENCE ONLY)						
SPECIFICATIONS							
SP101	SPECIFICATIONS						
SP102	SPECIFICATIONS						
SP103	SPECIFICATIONS						
SP104	SPECIFICATIONS						
SP105	SPECIFICATIONS						
SP106	SPECIFICATIONS						
SP107	SPECIFICATIONS						

LMHT Project No. 22160.00

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STATE OF FLORIDA
GLEN LEHMANN
59728
REGISTERED ARCHITECT

8/12/22

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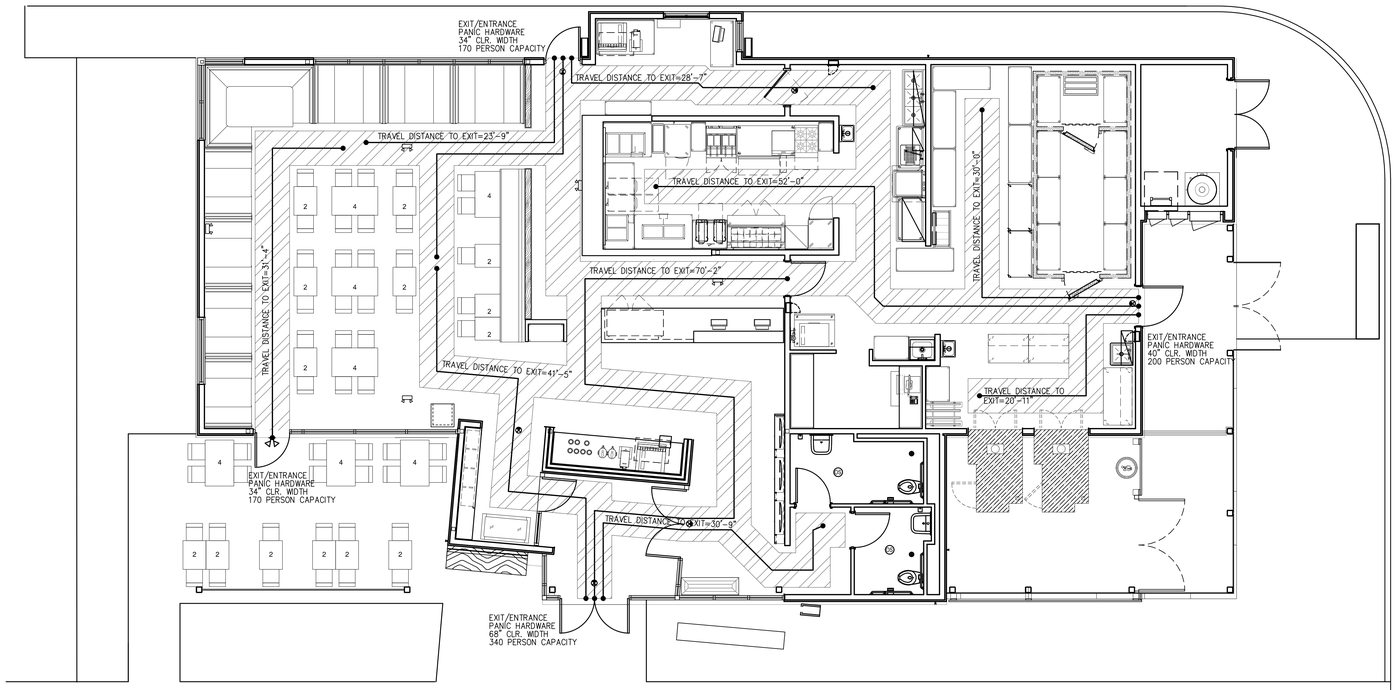
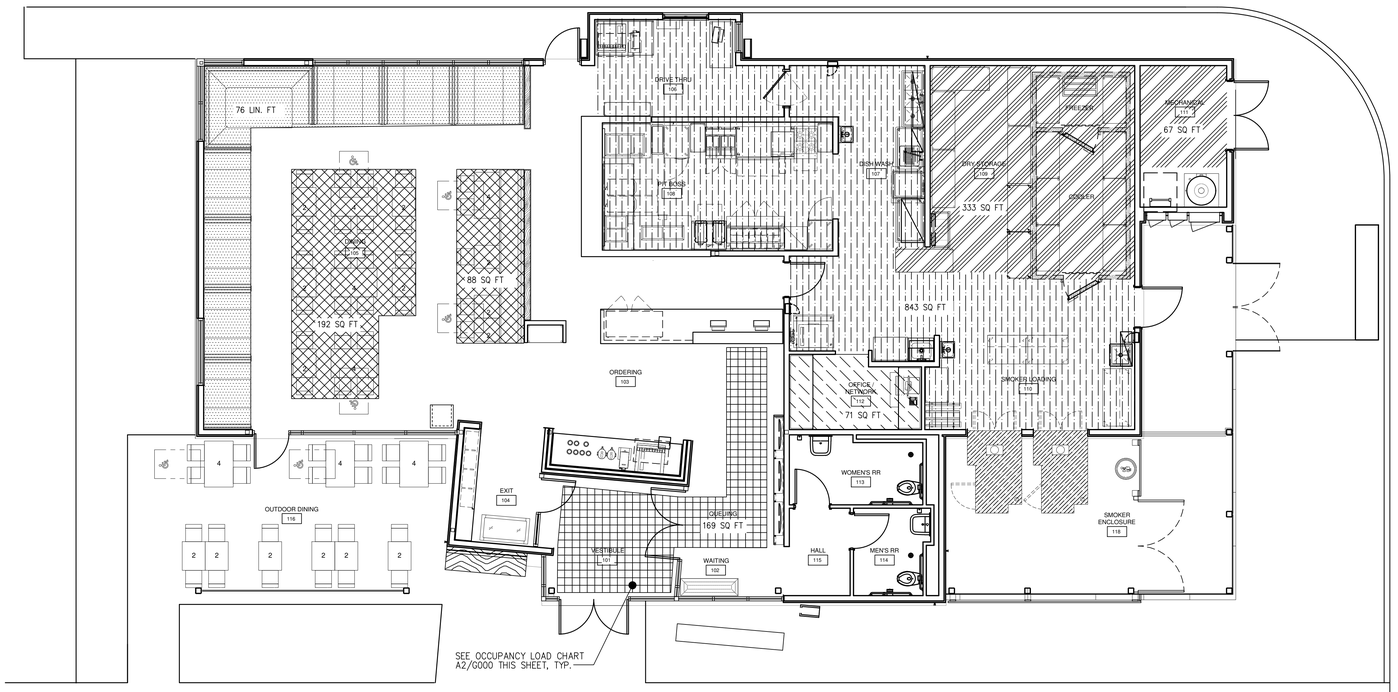


C1 LIFE SAFETY PLAN

3/16" = 1'-0"

NORTH



C2 OCCUPANCY PLAN

3/16" = 1'-0"

NORTH

PROJECT SUMMARY

- NEW FREE STANDING SINGLE STORY 2,501 SQUARE FOOT WOOD FRAME BUILDING WITH FULL SITE DEVELOPMENT AND UTILITIES.
- ALL EXTERIOR SIGNAGE TO BE SUBMITTED UNDER A SEPARATE PERMIT BY THE SIGNAGE CONTRACTOR
- EXHAUST HOODS, REFRIGERATION, GAS, AND HOOD SUPPRESSION SYSTEMS TO BE PERMITTED UNDER SEPARATED PERMIT BY A LICENSED CONTRACTOR

APPLICABLE CODES

EXISTING:	2020 FLORIDA EXISTING BUILDING CODE
BUILDING:	2020 FLORIDA BUILDING CODE (7th Edition)
ACCESSIBILITY:	FLORIDA ACCESSIBILITY CODE
ENERGY:	2020 FLORIDA ENERGY CONSERVATION CODE
FIRE:	2020 FLORIDA FIRE CODE
ELECTRICAL:	2017 NATIONAL ELECTRICAL CODE
MECHANICAL:	2020 FLORIDA MECHANICAL CODE
PLUMBING:	2020 FLORIDA PLUMBING CODE

BUILDING DATA

OCCUPANCY: MIXED OCCUPANCY? ___YES _√_NO
A2– RESTAURANT

OCCUPANT LOAD: 114 OCCUPANTS – REFER TO DET. C2/G000

CONSTRUCTION TYPE: V–B

SPRINKLED? ___YES _√_NO

FIRE DISTRICT? ___YES _√_NO

BUILDING HEIGHT: 18'–6" – (40'–0" ALLOWABLE HEIGHT)

NUMBER OF STORIES: 1

MEZZANINE: ___YES _√_NO

GROSS BUILDING AREA:

GROSS SHELL BUILDING:	3,409 S.F.
EXTERIOR COVERED AREAS (EXCLUDED):	(1,031 S.F.)
TOTAL BUILDING AREA:	3,409 S.F.

ALLOWABLE AREA: TABLE 506.2 – 6000 S.F.

AREA INCREASE? ___YES _√_NO

LIFE SAFETY SYSTEM

EMERGENCY LIGHTING: _√_YES ___NO

EXIT SIGNS: _√_YES ___NO

FIRE ALARM SYSTEM: ___YES _√_NO

SMOKE DETECTION SYSTEM: _√_YES ___NO

PANIC HARDWARE: _√_YES ___NO

EXIT REQUIREMENTS

REFER TO DRAWING C1/G000 FOR EXIT REQUIREMENTS AND LIFE SAFETY PLAN

TOILET FACILITIES

TOTAL = 138 PEOPLE
MALE = 69
FEMALE = 69

PER PLUMBING TABLE 403.1

REQUIRED:	WC	URINALS	LAV
MEN'S	1	–	1
WOMEN'S	1	–	1
PROVIDED:	**WC**	**URINALS**	**LAV**
MEN'S	1	–	1
WOMEN'S	1	–	1

FIRE RESISTANCE RATINGS

30 FEET CLEAR ACCESS AROUND BUILDING

ASSEMBLY	REQUIRED	PROVIDED
PARTY / FIREWALL	N/A	N/A
EXTERIOR BEARING WALL		
FRONT	0 HR	0 HR
RIGHT SIDE	0 HR	0 HR
REAR	0 HR	0 HR
LEFT SIDE	0 HR	0 HR
EXTERIOR NON–BEARING WALLS		
FRONT	N/A	N/A
RIGHT SIDE	N/A	N/A
REAR	N/A	N/A
LEFT SIDE	N/A	N/A
INTERIOR WALLS		
BEARING	N/A	N/A
NON–BEARING	0 HR	0 HR
TENANT SEPARATION	N/A	N/A
CEILING/FLOOR ASSEMBLY	N/A	N/A
BEAMS	0 HR	0 HR
COLUMNS	0 HR	0 HR
CEILING/ROOF ASSEMBLY	0 HR	0 HR
VERTICAL SHAFTS	N/A	–
CHASES	N/A	–
MIXED OCCUPANCY SEPARATION	N/A	–
TENANT SEPARATION	N/A	–

STRUCTURAL DESIGN LOADS

SEE STRUCTURAL DRAWINGS

SPECIAL INSPECTIONS

NO SPECIAL INSPECTIONS REQUIRED

PARKING SPACES

SEE CIVIL DRAWNGS BY OTHERS

A5 CODE ANALYSIS

OCCUPANCY LOAD

BY SQUARE FOOTAGE TABLE 1004.1.1				BY SEAT COUNT		
MARK	SPACE	S.F.	OCCUPANCY	TABLE SIZE	QUANTITY	SEAT
UNHATCHED	CIRCULATION / EXIT / TOILETS (NOT OCCUPIABLE)	–	0	2 TOP TABLE–24x30	2	12
	QUEING– 1 PER 5 S.F.	169 S.F.	34	4 TOP TABLE	1	4
	MOVABLE SEATING AREA– 1 PER 15 S.F.	280 S.F.	19	4 TOP ADA TABLE	4	16
	OFFICE – 1 PER 100 S.F.	71 S.F.	1	BOOTH – 30x48	4	16
	KITCHEN / FOOD PREP / SERVING – 1 PER 200 S.F.	843 S.F.	5	BOOTH – 30x60	3	15
	STORAGE AREA – 1 PER 300 S.F.	460 S.F.	2	BOOTH – 42x70	1	7
	DINING AREA (BOOTH FIXED SEATING) – 1 PER 2'–0"	76 L.F.	38	TABLE TOTAL	21	70
				EMPLOYEES		10
				QUEING		34
	TOTAL:	–		TOTAL:		114
	WORST CASE TOTAL = 114					
				OUTSIDE SEATING	8	24
				TOTAL PLUMBING LOAD::		138

HANDICAP REQUIRED – INTERIOR SEATING: 70 x 5% = 3.5 (4) PROVIDED
EXTERIOR SEATING: 24 x 5% = 1.2 (2) PROVIDED

A2 LIFE SAFETY LEGEND

N.T.S.

ROOM 101 — ROOM NAME, NUMBER AND SQUARE FOOTAGE
150 SF / 15 — ROOM OCCUPANT LOAD
EXIT TRAVEL PATH
DOOR EGRESS: EXIT CAPACITY - EXIT WIDTH REQUIRED - EXIT WIDTH PROVIDED
EXIT SIGN

F.E. — RECESSED FIRE EXTINGUISHER CABINET
F.E. — SEMI-RECESSED FIRE EXTINGUISHER CABINET
F.E. — SURFACE MOUNTED FIRE EXTINGUISHER CABINET
F.E. — FIRE EXTINGUISHER
0.5 — HALF HOUR FIRE RESISTANCE RATED WALL ASSEMBLY
1 — ONE HOUR FIRE RESISTANCE RATED WALL ASSEMBLY
2 — TWO HOUR FIRE RESISTANCE RATED WALL ASSEMBLY
3 — THREE HOUR FIRE RESISTANCE RATED WALL ASSEMBLY
(SEE PARTITION TYPES SHEET A602 FOR WALL ASSEMBLY)

A1 LIFE SAFETY LEGEND

N.T.S.

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STATE OF FLORIDA
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REGISTERED ARCHITECT
8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: LIFE SAFETY / OCCUPANCY PLANS and CODE ANALYSIS

Revisions

THRU ADDENDUM " "

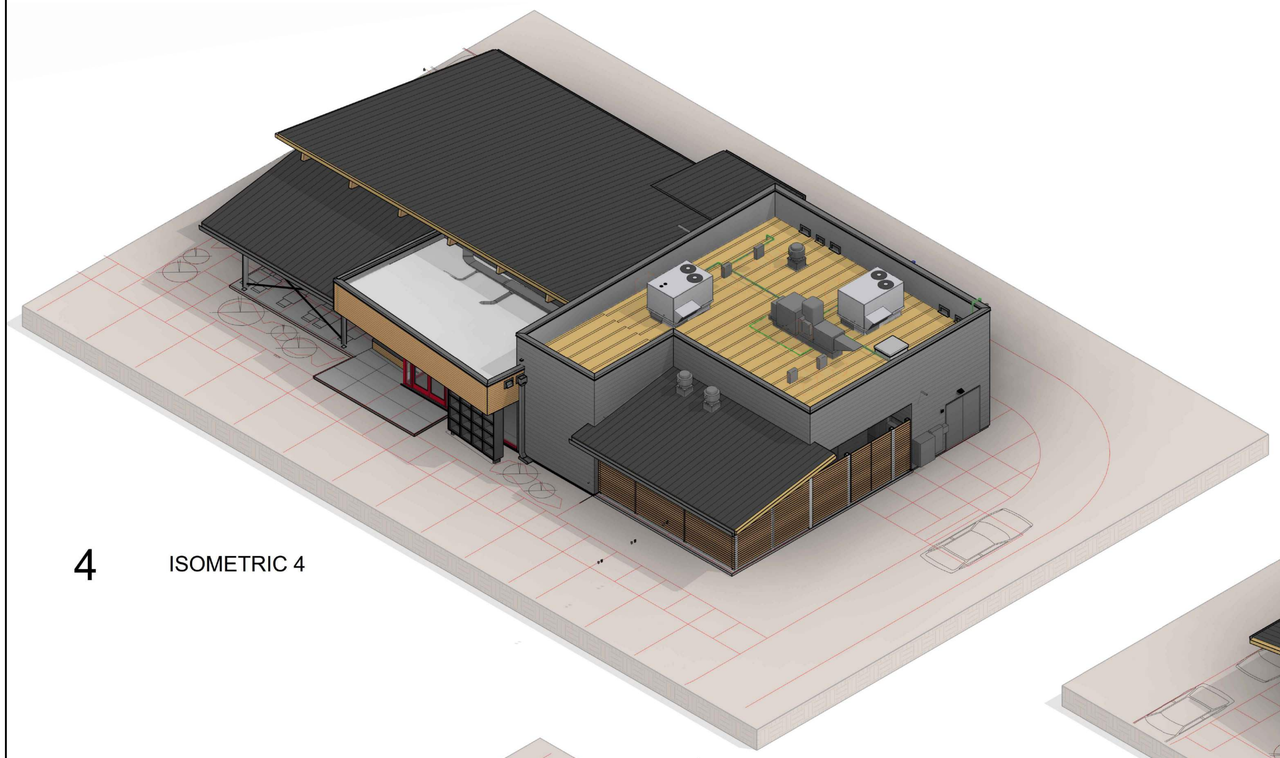
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

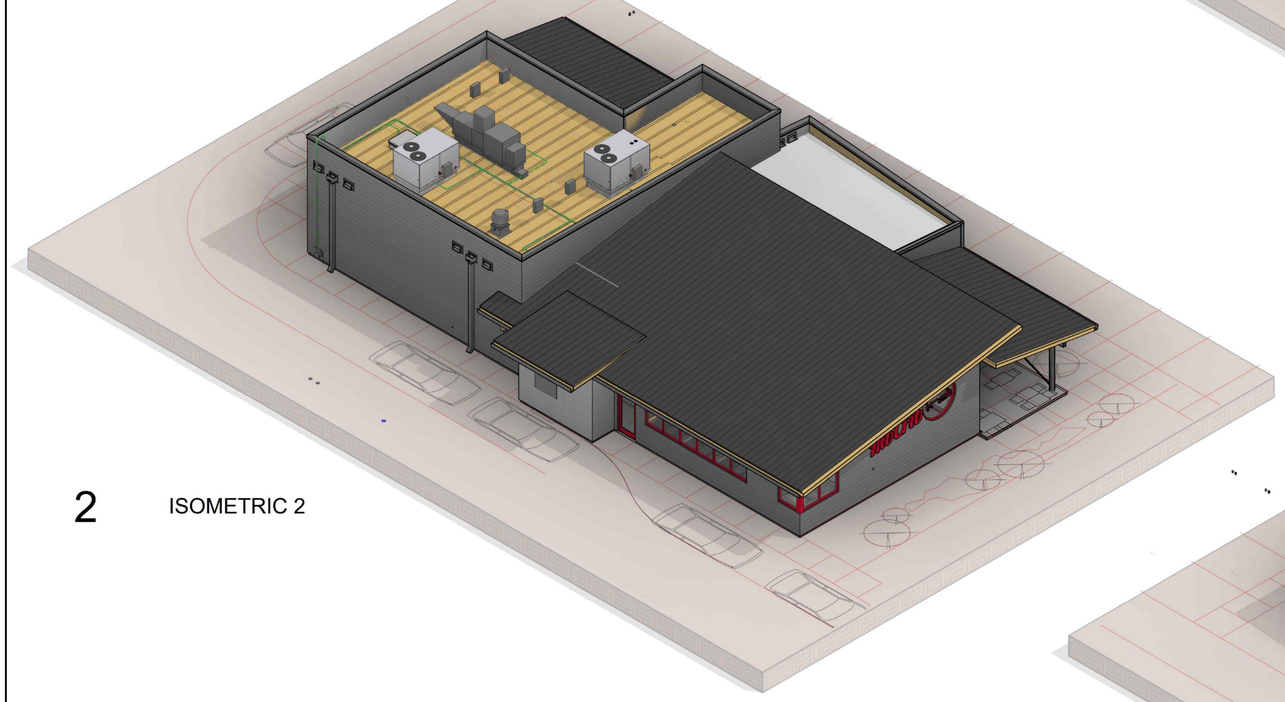
Sheet No.
G000

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\G000.dwg
Plotted by: chuster
Plotted Date: Aug 12, 2022 – 2:42pm

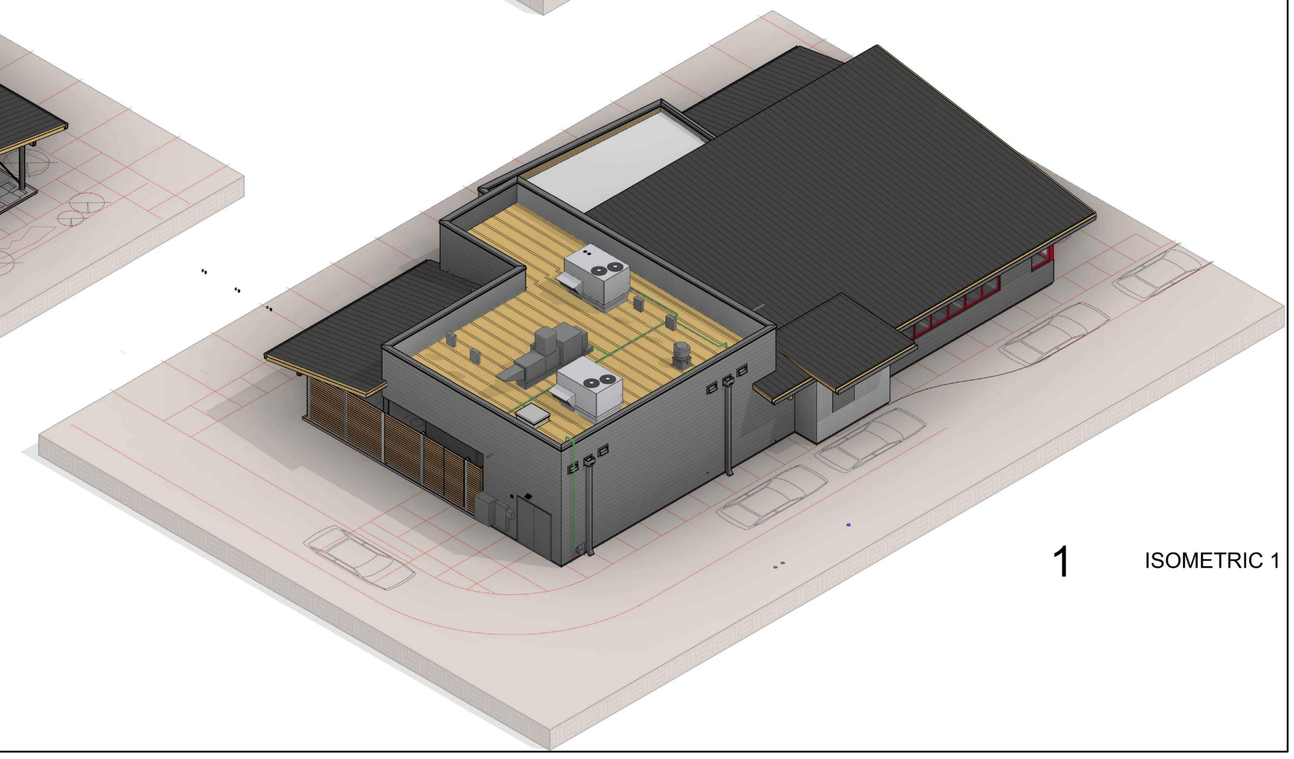


4 ISOMETRIC 4

3 ISOMETRIC 3



2 ISOMETRIC 2



1 ISOMETRIC 1

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Plotted by: chudsen
Plotted date: Aug 12, 2022 - 2:42pm

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8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: 3D ISOMETRIC VIEWS

Rib Crib BBQ

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By

Checked By

Sheet No.
G001

ROOM 101 — ROOM NAME AND NUMBER

101 — DOOR NUMBER

X — GLAZING / FRAME TYPE

X — EQUIPMENT NUMBER

1 — DEMOLITION NOTE

1 — REVISION TAG AND CLOUD

A1-A101 — INTERIOR ELEVATION

A1 / A101 — BUILDING ELEVATION

W8-88 — PARTITION TYPE

A1 / A101 SIM — ENLARGED PLAN / DETAIL

GRID — GRIDLINE

A1 / A101 — SECTION

A1 / A101 — A1 / A101 — BUILDING SECTION

EL 100'-00" NAME — SPOT ELEVATION

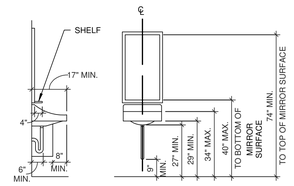
4 SYMBOLS LEGEND

1. PERFORM WORK IN COMPLIANCE WITH ALL APPLICABLE ACCESSIBILITY, FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION.
2. REFER TO SPECIFICATIONS FOR MATERIALS AND STANDARDS OF CONSTRUCTION.
3. COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION TO ENSURE PROPER SEQUENCING OF THE WORK.
4. VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING, FABRICATION AND CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION.
5. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES FOR CLARIFICATION.
6. DIMENSIONS UNLESS NOTED OTHERWISE: TO FACE OF CONCRETE OR MASONRY WORK; TO CENTERLINE OF COLUMNS OR OTHER GRID POINT; TO CENTERLINE OF PARTITIONS AND FRAMED WINDOW AND DOOR OPENINGS; TO FINISH FACES OF CLEAR WIDTHS
7. VERIFY SIZE, CHARACTERISTICS, AND REQUIRED CLEARANCES OF ALL EQUIPMENT TO BE FURNISHED WITH MANUFACTURERS OR SUPPLIERS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION.
8. PROVIDE BLOCKING AND GROUNDS AS SPECIFIED FOR BUILT-IN AND SURFACE MOUNTED ITEMS PRIOR TO APPLYING WALL SURFACING MATERIALS.
9. CONCEAL ALL PLUMBING, DUCTWORK, CONDUIT, WIRE, AND SIMILAR ITEMS UNLESS NOTED OTHERWISE.

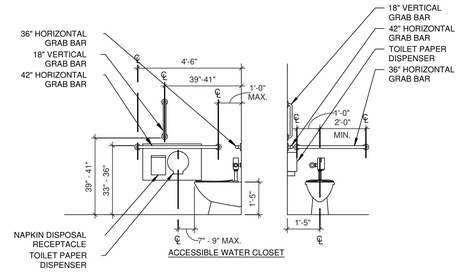
3 GENERAL PROJECT NOTES

A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALUM	ALUMINUM
ARCH	ARCHITECTURE
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
APA	AMERICAN PLYWOOD ASSOCIATION
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
AVE	AVENUE
BF	BARRIER FREE
BM	BENCH MARK
BOS	BOTTOM OF STRUCTURE
BTWN	BETWEEN
CCR	CREEDENCE CLEARWATER REVIVAL
CJ	CONTROL JOINT
CL	CLEAR
CO	CLEAN OUT
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CRS	COURSING
CS	COUNTER SUNK
DBL	DOUBLE
DS	DOWNSPOUT
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ENG	ENGINEER
EQ	EQUAL
EXT	EXTERIOR
FE	FIRE EXTINGUISHER
FIN/FF	FINISH FLOOR
FS	FLOOR SINK
FD	FLOOR DRAIN
FED	FEDERAL
FOW	FACE OF WALL
FRT	FIRE RESISTANT TREATED (RETARDANT?)
GA	GAUGE
GAL	GALLON
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HD	HOOD
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
INT	INTERIOR
IPP	INCHES PER PERSON
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MIN	MINIMUM
MS	MOP SINK
MO	MASONRY OPENING
N	NORTH
NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NUMBER
NSF	NET SQUARE FOOT
NTS	NOT TO SCALE
OC	ON CENTER
OPCI	OWNER PROVIDED CONTRACTOR INSTALLED (OFCI?)
OPOI	OWNER PROVIDED OWNER INSTALLED (OFOI?)
OH	OPPOSITE HAND
OPP HAND	
OK	OKLAHOMA
OSB	ORIENTED STRAND BOARD
OTS	OPEN TO STRUCTURE
PAV'T	PAVEMENT
PLAM	PLASTIC LAMINATE
PR	PAIR
R	RADIUS
R/A	RETURN AIR
RCP	REFLECTED CEILING PLAN
RE:	REFERENCE / REFER TO
RTU	ROOF TOP UNIT
S/A	SUPPLY AIR
SCHED.	SCHEDULE
SF/SQFT	SQUARE FEET
SFPP	SQUARE FEET PER PERSON
SL	SLOPE
SPECS	SPECIFICATIONS
STD	STANDARD
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOF	TOP OF PAVEMENT
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VIF/FV	VERIFY IN FIELD / FIELD VERIFY
WB	WALLBOARD
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WATER HEATER
WP	WATERPROOF
WR	WATER RESISTANT
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

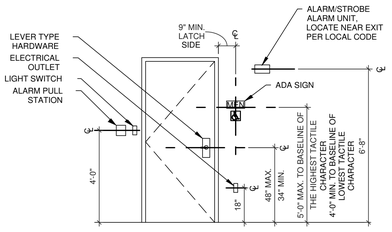
2 ABBREVIATIONS



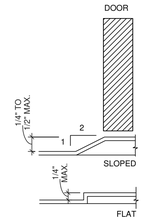
ACCESSIBLE LAVATORY



ACCESSIBLE WATER CLOSET



DOOR



THRESHOLD

1. ALL MANUALLY OPERATED FIXTURES TO BE LEVER TYPE CONTROL.
2. GRAB BAR AND SEAT SHALL WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT.
3. PROVIDE 1 1/2" CLEARANCE BETWEEN GRAB BAR AND WALL.
4. HOT WATER AND DRAIN PIPES UNDER LAVATORY SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
5. PROVIDE 30" WIDE FRONT-IN CLEARANCE FOR WHEELCHAIR ACCESS AT SINK AND URINAL.
6. ALL SIGNAGE SHALL COMPLY WITH ADA AND TAS.
7. ADJUST ALL DOOR CLOSERS TO A MAXIMUM OF 5 LBS OF FORCE.
8. ACCESSIBLE TOILET COMPARTMENTS TO HAVE A SELF CLOSING DOOR.

1 ACCESSIBILITY REQUIREMENTS

N.T.S.

LMHT Project No. 22160.00

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STATE OF FLORIDA — GLEN LEHMANN — A97728 — REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055

Drawing: GENERAL PROJECT INFORMATION

Revisions

THRU ADDENDUM " "

PROJECT DATE 08/12/2022

Drawn By CDK

Checked By NRD

Sheet No. **G002**

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\G002.dwg
Plotted by: chudson
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DESIGN PARAMETERS

1. BUILDING CODE: ..... 2018 INTERNATIONAL BUILDING CODE
2. DEAD LOADS:
   A. ROOF ..... 20 PSF
3. LIVE LOADS:
   A. ROOF ..... 20 PSF (UNIFORM)
4. WIND LOADS:
   A. BASIC WIND SPEED (3 SECOND GUST) ..... 120 MPH
   B. RISK CATEGORY II
   C. EXPOSURE CLASSIFICATION C
   D. INTERNAL PRESSURE COEFFICIENT ..... ±0.18
   E. BASIC WIND PRESSURE (qh,UNFACTORED) ..... 25.4 PSF

Ultimate Design Wind Pressure (psf):

			Effective Wind Area (sq ft)					
Walls:			**10**	**20**	**50**	**100**	**200**	**500**
Interior	Zone 4	+	28.7	27.5	25.8	24.5	23.2	21.5
		-	-31.1	-29.8	-28.2	-26.9	-25.6	-23.9
Edge	Zone 5	+	28.7	27.5	25.8	24.5	23.2	21.5
		-	-38.3	-35.8	-32.4	-29.8	-27.3	-23.9
Roof:			**10**	**20**	**50**	**100**	**200**	**500**
Interior	Zone 1	+	16.0	16.0	16.0	16.0	16.0	16.0
		-	-50.0	-46.7	-42.3	-39.0	-35.7	-31.4
Interior	Zone 1'	+	16.0	16.0	16.0	16.0	16.0	16.0
		-	-28.7	-28.7	-28.7	-28.7	-24.7	-19.4
Edge	Zone 2	+	28.7	27.5	25.8	24.5	23.2	21.5
		-	-66.0	-61.7	-56.1	-51.9	-47.6	-42.0
Corner	Zone 3	+	28.7	27.5	25.8	24.5	23.2	21.5
		-	-66.0	-61.7	-56.1	-51.9	-47.6	-42.0
Overhang:			**10**	**20**	**50**	**100**	**200**	**500**
Edge	Zone 2	+	28.7	27.5	25.8	24.5	23.2	21.5
		-	-61.2	-55.5	-48.0	-42.4	-36.7	-29.3
Corner	Zone 3	+	28.7	27.5	25.8	24.5	23.2	21.5
		-	-85.1	-75.2	-62.1	-52.2	-42.3	-29.3
Parapet:			**10**	**20**	**50**	**100**	**200**	**500**
Edge	Zone 2	+	88.4	82.7	75.1	69.4	63.7	56.1
		-	-52.2	-49.6	-46.1	-43.5	-40.8	-37.3
Corner	Zone 3	+	88.4	82.7	75.1	69.4	63.7	56.1
		-	-59.7	-55.7	-50.5	-46.5	-42.6	-37.3

5. SEISMIC LOADS:
   A. SPECTRAL RESPONSE ACCELERATION; (SHORT PERIOD), Ss ..... 0.086 g
   B. SPECTRAL RESPONSE ACCELERATION; (1-SEC. PERIOD), S1 ..... 0.051 g
   C. SPECTRAL RESPONSE COEFFICIENT; (SHORT PERIOD), Sds ..... 0.092 g
   D. SPECTRAL RESPONSE COEFFICIENT; (1-SEC. PERIOD), Sd1 ..... 0.082 g
   E. SITE CLASS ..... D
   F. IMPORTANCE FACTOR, I 1.0
   G. SEISMIC DESIGN CATEGORY ..... B
   H. BASIC STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM ..... WOOD SHEARWALLS SHEATHED WITH WOOD STRUCTURAL PANELS
   I. RESPONSE MODIFICATION FACTOR, R 6.5
   J. SYSTEM OVER-STRENGTH FACTOR, W 3
   K. DEFLECTION AMPLIFICATION FACTOR, Cd 4
   L. ANALYSIS PROCEDURE ..... EQUIVALENT LATERAL FORCE

6. FOUNDATIONS: (IF GEOTECH REPORT IS NOT PROVIDED)
ISOLATED AND CONTINUOUS FOUNDATIONS HAVE BEEN DESIGN FOR AN ASSUMED ALLOWABLE NET BEARING PRESSURE OF 1500 PSF. THE OWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR VERIFYING THESE ASSUMPTIONS WITH ACTUAL CONDITIONS PRIOR TO CONSTRUCTION OR BUILD AT THEIR OWN RISK. ACHIEVING AN ALLOWABLE BEARING PRESSURE DOES NOT PRECLUDE THE BUILDING FROM BEING SUBJECT TO DIFFERENTIAL MOVEMENT. SHOULD THE OWNER BE CONCERNED, THEY SHALL ENGAGE THE SERVICES OF A LICENSED GEOTECHNICAL ENGINEER TO INVESTIGATE AND PROVIDE RECOMMENDATIONS.

GENERAL

1. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO THE SHOP DRAWINGS AND FIELD WORK.
2. WHERE CONFLICT EXISTS AMONG VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
3. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, THE FOLLOWING RULES SHALL APPLY:
   A. DO NOT SCALE DRAWINGS.
   B. COLUMNS ARE CENTERED ON GRID LINES.
   C. FOOTINGS ARE CENTERED BENEATH COLUMNS.
   D. CONTINUOUS FOOTINGS ARE CENTERED BENEATH WALLS.
   E. FRAMING MEMBERS ARE EITHER LOCATED ON GRID LINES OR ARE EQUALLY SPACED BETWEEN LOCATED MEMBERS.
4. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE LATERAL LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER.
5. THE STRUCTURE HAS BEEN DESIGNED FOR THE LOADS IDENTIFIED WITHIN THESE STRUCTURAL DRAWINGS THAT ARE ANTICIPATED TO BE APPLIED TO THE FINAL STRUCTURE ONCE COMPLETED AND OCCUPIED. THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING OR STORAGE, SHORING AND SHORING, OR ANY OTHER PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED TO THE STRUCTURE FOR ANY CONSTRUCTION ACTIVITY.
6. WEIGHTS OF MECHANICAL EQUIPMENT SHOWN ON THE STRUCTURAL PLANS ARE FOR UNITS SPECIFIED BY THE MECHANICAL ENGINEER. CONTRACTOR SHALL VERIFY THE WEIGHTS. ANY SUBSTITUTIONS THAT RESULT IN INCREASED WEIGHT SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
7. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. OPENINGS AND PENETRATIONS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
8. PRIOR TO FABRICATION AND/OR ERECTION OF ANY MATERIALS, THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS AND SHALL REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER OF RECORD OR THE ARCHITECT IMMEDIATELY UPON DISCOVERY.
9. BACKFILL BOTH SIDES OF ALL FOUNDATION AND RETAINING WALLS EQUALLY UNTIL LOW SIDE IS UP TO FINISH GRADE. DO NOT BACKFILL ANY WALLS UNTIL CONCRETE HAS REACHED ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
10. CONNECTIONS OF SYSTEMS DESIGNED BY THE CONTRACTOR'S ENGINEER SUCH AS, BUT NOT LIMITED TO, CLADDING, STAIRS, ELEVATORS AND MEP LOADS ARE ASSUMED TO IMPOSE VERTICAL AND/OR HORIZONTAL LOADS ON THE BASE BUILDING STRUCTURAL MEMBERS WITHOUT GENERATING TORSION IN THE SUPPORTING STRUCTURAL MEMBERS. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL SUPPLEMENTARY BRACING MEMBERS AS REQUIRED TO PREVENT TORSION ON THE BASE BUILDING STRUCTURE.
11. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS FORCES APPROVAL ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED.
   A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
   B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC REPORT IS SUBMITTED WITH THE REQUEST.
12. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
13. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF 360 ENGINEERING GROUP, PLLC, IS SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK COMPLETED AND DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN A MANNER INDICATING THAT THE WORK, WHEN FULLY COMPLETED, WILL BE IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS AN EXHAUSTIVE OR CONTINUOUS CHECK OF THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

DIVISION 2 - FOUNDATIONS

1. DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF. GC TO AQUIRE AND PROVIDE A SIGNED AND SEALED SOILS REPORT BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FOUNDATIONS.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE GEOTECHNICAL REPORT AND SHALL FOLLOW THE RECOMMENDATIONS SPECIFIED THEREIN, INCLUDING, BUT NOT LIMITED TO, SUBGRADE PREPARATIONS, GROUND WATER MANAGEMENT AND STEEP SLOPE BEST MANAGEMENT PRACTICES.
3. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING PROOF ROLLING AND SHALL INSPECT THE SUBGRADE PRIOR TO ANY FILL OPERATIONS. ALL COMPACTED FILL SHALL BE CONTINUOUSLY INSPECTED BY THE OWNER'S SELECTED INDEPENDENT TESTING LABORATORY.
4. FOOTINGS SHALL BEAR EITHER ON COMPETENT NATIVE SOIL OR COMPACTED STRUCTURAL FILL AS PER THE GEOTECHNICAL REPORT. EXTERIOR AND EXTERIOR PERIMETER FOOTINGS SHALL BEAR NOT LESS THAN 24 INCHES BELOW FINISH GRADE UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER AND/OR BUILDING OFFICIAL. IF THE SOIL AT THE BEARING ELEVATIONS SHOWN IS OF QUESTIONABLE BEARING VALUE, THE STRUCTURAL ENGINEER OF RECORD OR ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
5. ALL FILL MATERIAL UNDER THE STRUCTURE SHALL COMPLY WITH REQUIREMENTS STATED IN THE GEOTECHNICAL REPORT, UNO.
6. PROVIDE A MINIMUM OF A 4-INCH CLEAN, FREE-DRAINING GRANULAR SUBBASE FILL BELOW ALL INTERIOR SLABS-ON-GRADE UNLESS NOTED OR DETAILED OTHERWISE. SUBBASE SHALL MEET GRADATION REQUIREMENTS OF ASTM C-33 SIZE NO. 67, UNLESS SPECIFICALLY NOTED OTHERWISE.
7. A POLYETHYLENE FILM VAPOR RETARDER, MEETING THE REQUIREMENTS IN THE SPECIFICATIONS, SHALL BE PLACED BELOW ALL INTERIOR SLABS-ON-GRADE PER THE FOUNDATION PLAN NOTES.
8. THE CONTRACTOR IS CAUTIONED AGAINST LOADING SLAB-ON-GRADE WITH CONSTRUCTION EQUIPMENT. THE SLAB HAS NOT BEEN DESIGNED FOR CONSTRUCTION EQUIPMENT AND MAY REQUIRE AN INCREASE IN SLAB THICKNESS AND/OR REINFORCEMENT. IF THE CONSTRUCTION LOADING EXCEEDS THE DESIGN LOADS SHOWN IN THE DESIGN CRITERIA, THE CONTRACTOR IS REQUIRED TO SUBMIT CALCULATIONS SIGNED AND SEALED BY A REGISTERED STRUCTURAL, CIVIL, OR GEOTECHNICAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED VERIFYING THE ADEQUACY OF THE SLAB.
9. EXTERIOR FOOTINGS FOR STAIRS AND RAMPS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH.
10. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.

DIVISION 3 - CONCRETE

1. ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301.
2. CONTRACTOR SHALL FOLLOW ACI 305.1 FOR HOT WEATHER CONCRETE, ACI 306.1 FOR COLD WEATHER CONCRETE PLACEMENT AND CURING GUIDELINES.
3. ARRANGEMENTS AND DETAIL OF REINFORCING BENDS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF PUBLICATION SP-66, "ACI DETAILING MANUAL" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
4. UNLESS NOTED OTHERWISE, BAR SPLICES SHALL BE CLASS B TENSION LAPS AND SHALL BE LAPPED WITH MINIMUM LENGTHS AS LISTED IN THE LAP LENGTH SCHEDULE, WHERE REQUIRED IN REINFORCING. SHORTER LAPS MAY BE ACCEPTABLE IF SPECIFIC LOCATIONS OF ALTERNATE LAPS ARE SHOWN ON THE REINFORCING PLACEMENT DRAWINGS AND CALCULATIONS ARE SUBMITTED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, JUSTIFYING THE ALTERNATE LAP LENGTHS.
5. PROVIDE SUITABLE WIRE SPACERS, CHAIRS, TIES, ETC. FOR SUPPORTING REINFORCING STEEL IN THE PROPER POSITION BEFORE PLACING CONCRETE.
6. ALL WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 12" AT THE SIDES AND ENDS.
7. LOCATIONS AND SIZES OF OPENINGS, SLEEVES, ETC. REQUIRED FOR OTHER TRADES MUST BE VERIFIED BY THESE TRADES BEFORE PLACING CONCRETE.
8. ALL SLOTS, SLEEVES, TRENCHES AND OTHER EMBEDDED ITEMS SHALL BE SET AND SECURED AGAINST MOVEMENT BEFORE THE CONCRETE IS PLACED. SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND HVACR DRAWINGS FOR SIZES, AND LOCATIONS. COORDINATE LOCATIONS, SPACING, AND SIZES WITH THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PLACING CONCRETE.
9. AS PART OF THE SUBMITTAL PROCESS, THE ELECTRICAL AND MECHANICAL CONTRACTOR(S) SHALL SUBMIT PROPOSED ROUTING PLAN FOR ALL PIPES, CONDUITS, OR OTHER DEVICES TO BE EMBEDDED IN THE CONCRETE. THE SUBMITTAL SHALL SHOW SPECIFIC SIZES AND LOCATIONS OF ALL PROPOSED EMBED ITEMS REFERENCING PROXIMITY TO BEAM, COLUMN, AND SLAB EDGES. NO ITEMS SHALL BE ALLOWED TO BE EMBEDDED IN THE CONCRETE WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
10. CONDUITS AND PIPES EMBEDDED IN CONCRETE SLABS MAY BE NO LARGER THAN 1/3 OF THE SLAB THICKNESS (BASED ON THE MAXIMUM OUTSIDE DIAMETER) AND SHALL HAVE A CENTER-TO-CENTER SPACING NO LESS THAN THREE (3) CONDUIT DIAMETERS. REGARDLESS OF DIAMETER, THE MINIMUM CLEAR SPACING BETWEEN CONDUITS OR REINFORCING SHALL BE (1) INCH.
11. NO MORE THAN FOUR CONDUITS MAY BE PLACED ADJACENT TO EACH OTHER WITHOUT PRIOR APPROVAL IN WRITING FROM THE STRUCTURAL ENGINEER OF RECORD.
12. NO ALUMINUM CONDUITS, DEVICES, OR FIXTURES MAY BE EMBEDDED INTO THE CONCRETE SO THAT THE ALUMINUM IS IN DIRECT CONTACT WITH THE CONCRETE.
13. CORNER BARS SHALL BE PROVIDED FOR ALL HORIZONTAL REINFORCING BARS AT THE INTERSECTIONS AND CORNERS OF ALL STRIP FOOTINGS, BEAMS, AND WALLS UNLESS NOTED OTHERWISE. CORNER BARS SHALL BE OF THE SAME SIZE AND GRADE AS THE HORIZONTAL REINFORCING THEY CONNECT. MINIMUM LAP LENGTHS SHALL BE AS INDICATED ABOVE UNLESS NOTED OTHERWISE.
14. FOR EXTERIOR RETAINING WALLS AND BUILDING STEM WALLS EXPOSED TO VIEW ACROSS THE LENGTH OF WALL, PROVIDE FORMED "V" CONTROL JOINTS AT 15'-0" OC MAX.
15. CRACKING IS INHERENT TO THE MATERIAL PROPERTIES OF CONCRETE CONSTRUCTION WHILE EVERY EFFORT HAS BEEN MADE TO MINIMIZE THE EFFECTS IF UNSIGHTLY CRACKING, THE PRESENCE OF CRACKS ARE NORMAL AND UNAVOIDABLE. THE DESIGN OF THE CONCRETE STRUCTURAL ITEMS HAVE BEEN ANALYZED USING A "CRACKING SECTION." THE PRESENCE OF THE CRACKING SHOULD NOT BE CONSIDERED DETRIMENTAL TO THE STRUCTURE. CRACK LARGER THAN 5 MILS SHALL BE FILLED AND SEALED WITH AN APPROVED CRACK FILLER TO PREVENT FUTURE DETERIORATION. AN ALLOWANCE SHALL BE MADE IN THE CONSTRUCTION BUDGET FOR SEALING OF SUCH CRACKS. IN SOME CASE, CRACKS DO NOT APPEAR UNTIL WELL AFTER CONSTRUCTION HAS BEEN COMPLETED. ITS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE STRUCTURE PROPERLY OVER THE LIFE OF THE STRUCTURE. CONCRETE CRACKS, SHOULD THEY OCCUR, SHALL BE FILLED AND SEALED TO PREVENT PREMATURE DETERIORATION OF THE STRUCTURE.

LAP LENGTHS FOR SPLICES		
BAR SIZE	TOP BARS**	OTHER
#3	1'-11"	1'-6"
#4	2'-6"	1'-11"
#5	3'-1"	2'-5"
#6	3'-8"	2'-10"
#7	5'-3"	4'-0"
#8	6'-0"	4'-7"
#9	6'-9"	5'-2"

REQUIRED CONCRETE STRENGTHS (28 DAY)	
CONCRETE ELEMENT	f'c (PSI)
FOOTINGS, PIERS AND GRADE BEAMS	3,000
FOUNDATION WALLS AND PEDESTALS	4,000
SLABS-ON-GRADE	3,500
SUSPENDED SLABS AND SLABS ON COMPOSITE DECK	3,000
STEEL STAIR PANS (SLABS ON NON-COMPOSITE DECK)	3,000
EXTERIOR STRUCTURAL CONCRETE (AIR ENTRAINED)	4,500
SIDEWALKS (AIR ENTRAINED)	3,500

* BASED ON MINIMUM CONCRETE COVER OF 1 1/2", A MINIMUM CENTER-TO-CENTER BAR SPACING OF THREE BAR DIAMETERS, AND 3,000 PSI CONCRETE. CLASS A SPLICE VALUES SHOWN ASSUME CLEARANCE & SPACING REQUIREMENTS PER ACI 318.

** TOP BARS ARE HORIZONTAL BARS WITH MORE THAN (12) INCHES OF CONCRETE CAST BELOW BARS.

REINFORCEMENT MATERIALS			
REINFORCING ELEMENT	ASTM	Fy (KSI)	Fu (KSI)
TYP REINFORCEMENT	A615	60	90
WELDED AND BENT REINF	A706	60	80
WELDED WIRE REINFORCING, SMOOTH	A185	65	75
WELDED WIRE REINFORCING, DEFORMED	A497	70	80

REINFORCEMENT COVER REQUIREMENTS	
LOCATION	COVER (IN)
COLUMNS, GIRDERS, AND BEAMS	1 1/2
CONCRETE CAST AGAINST EARTH	3
CONCRETE CAST IN FORMS, EXPOSED TO WEATHER OR EARTH	2
CONCRETE CAST ON VOID FORMS WITH MASONITE OR PLYWOOD COVERING	2
JOISTS	1 1/2
SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER	1

DIVISION 5 - STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTHS (Fy):

	YIELD	ASTM SPECIFICATION
A. WIDE FLANGE SHAPES	50 KSI	A992
B. OTHER SHAPES, BARS, PLATES AND RODS	36 KSI	A36
C. SQUARE AND RECTANGULAR HSS	46 KSI	A500, GRADE B
D. ANCHOR RODS	55 KSI	F1554
E. ALL-THREAD RODS	36 KSI	A36
F. HEADED STUD ANCHORS	65 KSI (TENSILE)	A108 (GRADE DESIGNATIONS 1010-1020 INCLUSIVE)

2. BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4" DIAMETER ASTM A325 HIGH-STRENGTH BOLTS INSTALLED SNUG TIGHT, UNO.
3. WHERE FIELD AND SHOP WELDS ARE INDICATED ON THE DRAWINGS, THEY SHALL BE THE SIZE AND TYPE NOTED. ALL WELDING OF STRUCTURAL STEEL SHALL BE DONE IN ACCORDANCE WITH LATEST EDITION OF AWS D1.1 CORRESPONDING TO THE AISC SPECIFICATION USED, AND ALL WELDS INCLUDING FIELD WELDS SHALL BE MADE BY CERTIFIED WELDERS USING E70XX ELECTRODES.
4. WHERE FILLED WELD SIZES ARE NOT INDICATED ON WELD SYMBOLS, FILLET SIZE SHALL BE 1/16TH INCH SMALLER THAN THICKNESS OF THINNER MATERIALS BEING JOINED.
5. COMPLETE PENETRATION WELDS ARE INDICATED BY NOTATION "CP" ON WELD SYMBOLS, PARTIAL PENETRATION BY "PP".
6. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION.
7. COMPOSITE CONSTRUCTION STEEL BEAMS AND GIRDERS DO NOT REQUIRE SHORING.
8. DO NOT PAINT SURFACES WHICH RECEIVE WELDED STUDS.
9. EXPOSED STEEL LABELED AS ARCHITECTURALLY EXPOSED STEEL REQUIRES HIGHER TOLERANCES FOR CONSTRUCTION. REFER TO SPECIFICATIONS SECTION 051200 FOR REQUIREMENTS. FLARE BEVEL WELDS FOR ARCHITECTURALLY EXPOSED TUBE SHAPED SECTIONS SHALL BE BEVELED 45 DEGREES, WELDED AND GRINDED SMOOTH.
10. ALL STEEL MEMBERS NOTED OR INDICATED ON PLANS, ELEVATIONS, SECTIONS OR DETAILS SHALL BE SHOP ROLLED BY THE STEEL FABRICATOR. SHOP DRAWINGS SHALL INDICATE CURVATURE DATA AND FULL PENETRATION SPLICE LOCATIONS.
11. REFERENCE SPECIFICATIONS FOR MISC. STEEL REQUIREMENTS NOT SHOWN ON STRUCTURAL PLANS.
12. TOUCH UP ALL FIELD WELDS ON GALVANIZED SURFACES WITH GALVANIZING REPAIR PAINT.
13. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL IN THEIR BID, REGARDLESS OF WHETHER THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE, BUT NOT LIMITED TO, MISCELLANEOUS STEEL ITEMS SHOWN ON ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
14. UNLESS DETAILED OTHERWISE OR REACTIONS ARE INDICATED, BEAM CONNECTIONS SHALL BE SELECTED TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE "ALLOWABLE UNIFORM LOAD TABLES" IN PART 3 OF THE AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION, FOR THE GIVEN BEAM SIZE, SPAN AND STEEL SPECIFICATION OR FOR THE BEAM REACTION SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER. THE MINIMUM BEAM CONNECTION SHALL NOT BE SMALLER THAN THOSE LISTED IN TABLES 10-1 AND 10-2 OF THE AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION, FOR THE GIVEN BEAM DEPTH, BOLT DIAMETER AND WELD SPECIFICATION.
15. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF ALL CONNECTIONS THAT ARE NOT DESIGNED OR FULLY DETAILED ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS, DEPICTING THE CONFIGURATIONS AND FABRICATION DETAILS, ALONG WITH CALCULATIONS, SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW.
16. UNLESS OTHERWISE INDICATED, BEAM REACTIONS SHOWN ON THE PLANS ARE DESIGN SERVICE LEVEL (ASD) GRAVITY (DEAD LOAD PLUS LIVE LOAD) SHEAR LOADS. ANY AXIAL OR OTHER LOADS REQUIRED MUST BE CONSIDERED IN ADDITION TO THE VERTICAL REACTIONS SHOWN.
17. THE MINIMUM DESIGN LOAD FOR ANY CONNECTION SHALL BE 6 KIPS (ASD) OR 10 KIPS (LRFD), REGARDLESS OF THE BEAM REACTION(S) SHOWN ON THE PLANS.
18. STEEL FRAMES ARE NON SELF-SUPPORTING AND COLUMN ANCHOR RODS ARE DESIGNED FOR A COMPLETED CONDITION ONLY. METAL ROOF DECK, BEAM-TO-COLUMN MOMENT CONNECTIONS, PORTAL FRAMES, AND DIAGONAL BRACES ARE REQUIRED TO PROVIDE LATERAL STABILITY FOR THE FRAME AND BUILDING. THIS INCLUDES RESISTANCE TO WIND AND SEISMIC FORCES DURING AND AFTER CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN STABILITY UNTIL THE LATERAL FORCE RESISTING SYSTEM FOR THE BUILDING IS COMPLETE.
19. AT ROOF ACCESS LADDERS, PROVIDE (2) ODX10.2 VERTICALS IN STUD WALL. SEE ARCH FOR LOCATIONS.
20. FIELD CUTTING, DRILLING OR OTHER MODIFICATION OF STRUCTURAL STEEL COMPONENTS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. WHERE BEAM PENETRATIONS CANNOT BE AVOIDED OR WHERE CUTTING IS REQUIRED, THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER OF RECORD ALL PERTINENT INFORMATION INCLUDING PENETRATION SHAPE, SIZE, LOCATION AND METHOD OF CUTTING OPENINGS.
21. ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE GALVANIZED OR PAINTED WITH TNEMEC EPOXY SYSTEM OR SIMILAR SYSTEM MEETING THE REQUIREMENT FOR PAINTING STRUCTURAL STEEL IN THE PROJECT SPECIFICATIONS. ALL OTHER STEEL MEMBERS SHALL BE FURNISHED WITH A SHOP COAT OF TNEMEC RED OR GRAY OXIDE PRIMER OR SIMILAR SYSTEM MEETING THE REQUIREMENT FOR PAINTING STRUCTURAL STEEL IN THE PROJECT SPECIFICATIONS. ALL PRIMERS SHALL BE COMPATIBLE WITH TOP COATINGS SPECIFIED.

DIVISION 6 - WOOD FRAMING

1. ALL WOOD PLATES BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED LUMBER.
2. ALL METAL CONNECTORS SHALL MEET THE FOLLOWING:
   A. CLIPS AND FASTENERS SHALL BE CORROSION RESISTANT.
   B. RATED TO PROVIDE LOAD RESISTANCE EQUAL TO CLIP SHOWN ON THE PLANS.
   C. APPROVED BY I.C.C. AND OTHER REQUIRED LOCAL CODE AGENCIES.
   D. INSTALLED AS RECOMMENDED BY THEIR MANUFACTURER.
3. ALL WOOD TRUSSES OR JOIST AND RAFTERS SHALL BE FASTENED TO TOP PLATE WITH ONE (1) SIMPSON H3 AND ONE (1) SIMPSON A34 METAL CLIP OR APPROVED EQUAL, UNO.
4. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR FASTENING OF HANGERS IN ORDER TO ACHIEVE THE REQUIRED ALLOWABLE LOADS SHOWN ON THE PLANS. WHERE REQUIRED ALLOWABLE LOADS ARE NOT SHOWN, USE THE MAXIMUM RATED STRENGTH OF THE HANGER.
5. WHEN CONNECTORS ARE NOT SHOWN, TABLE 2304.10.1 FASTENING SCHEDULE OF THE INTERNATIONAL BUILDING CODE SHALL APPLY.
6. WHEN HEADERS ARE NOT SHOWN, TABLE 2308.4.1 HEADER DESIGN CHART OF THE INTERNATIONAL BUILDING CODE SHALL APPLY.
7. PROVIDE SUPPLEMENTAL STRUCTURAL FRAMING AND BLOCKING AS REQUIRED TO ACHIEVE SOLID AND SOUND STRUCTURAL AND NON-STRUCTURAL ELEMENTS USING ACCEPTED FRAMING PRACTICES.
8. MINIMUM WOOD FRAMING MATERIAL SPECIFICATIONS ARE AS FOLLOWS:
   A. FRAMING 2-4 INCHES THICK, 2 INCHES AND WIDER, SOUTHERN YELLOW PINE #2
      1. Fb = 1000 PSI (SINGLE MEMBER USE)
      2. Ft = 600 PSI
      3. Fc = 1400 PSI (PARALLEL TO GRAIN)
      4. Fc = 565 PSI (PERPENDICULAR TO GRAIN)
      5. Fv = 175 PSI
      6. E = 1,400,000 PSI
   B. LAMINATED VENEER LUMBER (LVL)
      1. Fb = 2,600 PSI
      2. Ft = 1555 PSI
      3. Fc = 2510 PSI (PARALLEL TO GRAIN)

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SPECIAL INSPECTIONS

1. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO SECTION 1705 OF FBC 2020. THE APPROVED SPECIAL INSPECTOR SHALL DEMONSTRATE COMPETENCE FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE OWNER, THE BUILDING OFFICIAL, THE ARCHITECT, THE STRUCTURAL ENGINEER OF RECORD, AND TO THE CONTRACTOR. THE SPECIAL INSPECTOR SHALL BRING NON-CONFORMING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR AND NOTE ALL SUCH ITEMS IN THE REPORTS. ANY UNRESOLVED ITEM ABOUT THE COVERED WORK SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S CONSTRUCTION MANAGER AS WELL AS THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER OR NOT THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTION AGENCY REGARDING INDIVIDUAL INSPECTIONS FOR ITEMS LISTED ON THE SCHEDULE AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
2. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.
3. IN ACCORDANCE WITH IBC CHAPTER 17, THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS AND TESTING:

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION
PRIOR TO WELDING
REFERENCE AISC 360-10, TABLE N5.4-1

VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	X	--
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	--
MATERIAL IDENTIFICATION (TYPE/GRADE)	--	X
WELDER IDENTIFICATION SYSTEM	--	X
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) A. JOINT PREPARATION B. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) C. CLEANLINESS (CONDITION OF STEEL SURFACES) D. TACKING (TACK WELD QUALITY AND LOCATION) E. BACKING TYPE AND FIT (IF APPLICABLE)	--	X
CONFIGURATION AND FINISH OF ACCESS HOLES	--	X
FIT-UP OF FILLET WELDS A. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) B. CLEANLINESS (CONDITION OF STEEL SURFACES) C. TACKING (TACK WELD QUALITY AND LOCATION)	--	X
CHECK WELDING EQUIPMENT	--	X

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION
DURING WELDING
REFERENCE AISC 360-10, TABLE N5.4-2

VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE
USE OF QUALIFIED WELDERS	--	X
CONTROL AND HANDLING OF WELDING CONSUMABLES A. PACKAGING B. EXPOSURE CONTROL	--	X
NO WELDING OVER CRACKED TACK WELDS	--	X
ENVIRONMENTAL CONDITIONS A. WIND SPEED WITHIN LIMITS B. PRECIPITATION AND TEMPERATURE	--	X
WPS FOLLOWED A. SETTINGS ON WELDING EQUIPMENT B. TRAVEL SPEED C. SELECTED WELDING MATERIALS D. SHIELDING GAS TYPE/FLOW RATE E. PREHEAT APPLIED F. INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) G. PROPER POSITION	--	X
FIT-UP OF FILLET WELDS A. INTERPASS AND FINAL CLEANING B. EACH PASS WITHIN PROFILE LIMITATIONS C. EACH PASS MEETS QUALITY REQUIREMENTS	--	X

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION
AFTER WELDING
REFERENCE AISC 360-10, TABLE N5.4-3

VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE
WELDS CLEANED	--	X
SIZE, LENGTH AND LOCATION OF WELDS	X	--
WELDS MEET VISUAL ACCEPTANCE CRITERIA A. CRACK PROHIBITION B. WELD/BASE-METAL FUSION C. CRATER CROSS SECTION D. WELD PROFILES E. WELD SIZE F. UNDERCUT G. POROSITY	X	--
ARC STRIKES	X	--
K-AREA[1]	X	--
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	--
REPAIR ACTIVITIES	X	--
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	--

1. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD.

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION
PRIOR TO BOLTING
REFERENCE AISC 360-10, TABLE N5.6-1

VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	--
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	--	X
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	--	X
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	--	X
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	--	X
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	--	X
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	--	X

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION
DURING BOLTING
REFERENCE AISC 360-10, TABLE N5.6-2

VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	--	X
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	--	X
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	--	X
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID TOWARD THE FREE EDGES	--	X

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION
AFTER BOLTING
REFERENCE AISC 360-10, TABLE N5.6-3

VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE
DURING ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	--

SPECIAL INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION
REFERENCE IBC 2018, TABLE 1705.3

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	--	X
REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" C. INSPECT ALL OTHER WELDS	-- -- X	X X --
INSPECT ANCHORS CAST IN CONCRETE	--	X
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN A	X --	-- X
VERIFY USE OF REQUIRED DESIGN MIX.	--	X
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	--
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	--
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	--	X
INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES B. GROUTING OF BONDED PRESTRESSING TENDONS	X X	-- --
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	--	X
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	--	X
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	--	X

SPECIAL INSPECTION AND VERIFICATION OF SOILS
REFERENCE IBC 2018, TABLE 1705.6

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	--	X
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	--	X
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	--
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X

LMHT Project No. 22160.00

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: **SPECIAL INSPECTIONS**

Revisions

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S002

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FOUNDATION PLAN NOTES

1. SEE SHEET S001 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS.
3. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATION OF PENETRATIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
4. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE DURING CONSTRUCTION FOR THE SLAB AREA. SLAB SUBGRADE SHALL NOT BE ALLOWED TO RETAIN WATER DURING CONSTRUCTION.
5. SEE SHEET S501 FOR REINFORCEMENT AT RE-ENTRANT CORNERS AND DISCONTINUOUS JOINTS.
6. FINISH FLOOR REFERENCE ELEVATION = 100'-0". TYPICAL FLOOR SLAB SHALL BE 4" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 AT 16" OC EACH WAY OVER 15 MIL MINIMUM VAPOR BARRIER OVER 4" GRANULAR BASE COURSE OVER APPROVED LOW VOLUME CHANGE ENGINEERED FILL PER THE GEOTECHNICAL REPORT.
7. CENTER FOOTING BENEATH COLUMN AND LOAD BEARING WALLS SHOWN.
8. CONTROL JOINTS SHOULD NOT BE SPACED MORE THAN 15'-0" OC, AND THE PANELS SO FORMED BY THE CONTROL JOINTS SHOULD NOT EXCEED A LENGTH TO WIDTH RATIO OF 1.5. REF DETAIL 2/S501.
9. WALLS SHOWN ARE LOAD BEARING WALLS AND SHEARWALLS. STUDS ARE TO BE 2X6 EXTERIOR AND 2X4 INTERIOR AT 16" OC, UNO. SEE ARCH FOR STUD WALL LOCATIONS.
10. TOP OF EXTERIOR/EXTERIOR PERIMETER FTG = 99'-0" UNO.
11. ALL CONTINUOUS FTG TO BE CF18, UNO.

GRADING PLAN/INFORMATION WERE UNAVAILABLE DURING THE FOUNDATION DESIGN. THEREFORE FOUNDATION ELEVATIONS SHOWN ON THE PLAN ASSUME A UNIFORM FINISH GRADE 8" BELOW FINISH FLOOR ELEVATION AROUND THE PERIMETER OF THE BUILDING. REFER GENERAL NOTES FOR MINIMUM BOTTOM OF FOOTING BEARING ELEVATION, BELOW ADJACENT GRADE. IF SITE CONDITIONS VARY FROM THAT STATED, CONTRACTOR SHALL NOTIFY ARCHITECT AND STRUCTURAL ENGINEER FOR A RE-DESIGN OF THE FOUNDATION SYSTEM TO ACCOMMODATE ACTUAL SITE CONDITIONS.

SHEAR WALL, SEE SCHEDULE ON S522

ISOLATED FOOTING SCHEDULE

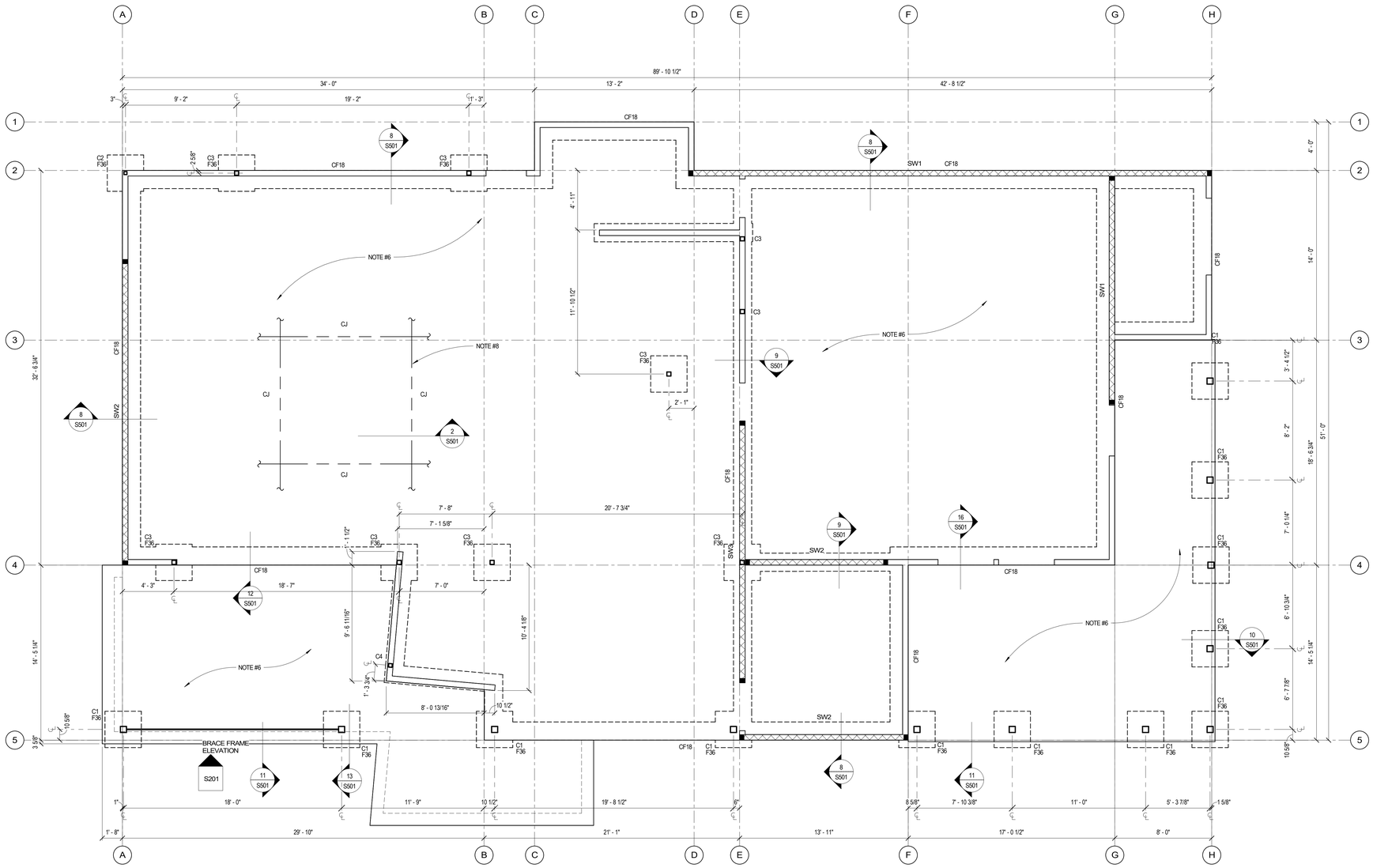
MARK	SIZE (LxWxD)	REINFORCEMENT
F36	3'-0"x3'-0"x1'-6"	(4) #5 BOT BARS, EW

CONTINUOUS FOOTING SCHEDULE

MARK	SIZE (WxD)	REINFORCEMENT
CF18	1'-6"x1'-6"	(2) #5 CONT T&B W/ #3 TIES AT 48" OC

COLUMN SCHEDULE

MARK	SIZE	COMMENTS
C1	HSS6X6X1/4	
C2	HSS3X3X1/4	
C3	HSS4X4X1/4	
C4	4x4 WOOD POST	SIMPSON CC44 BASE



1 FOUNDATION PLAN
1/4" = 1'-0"

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: **FOUNDATION PLAN**

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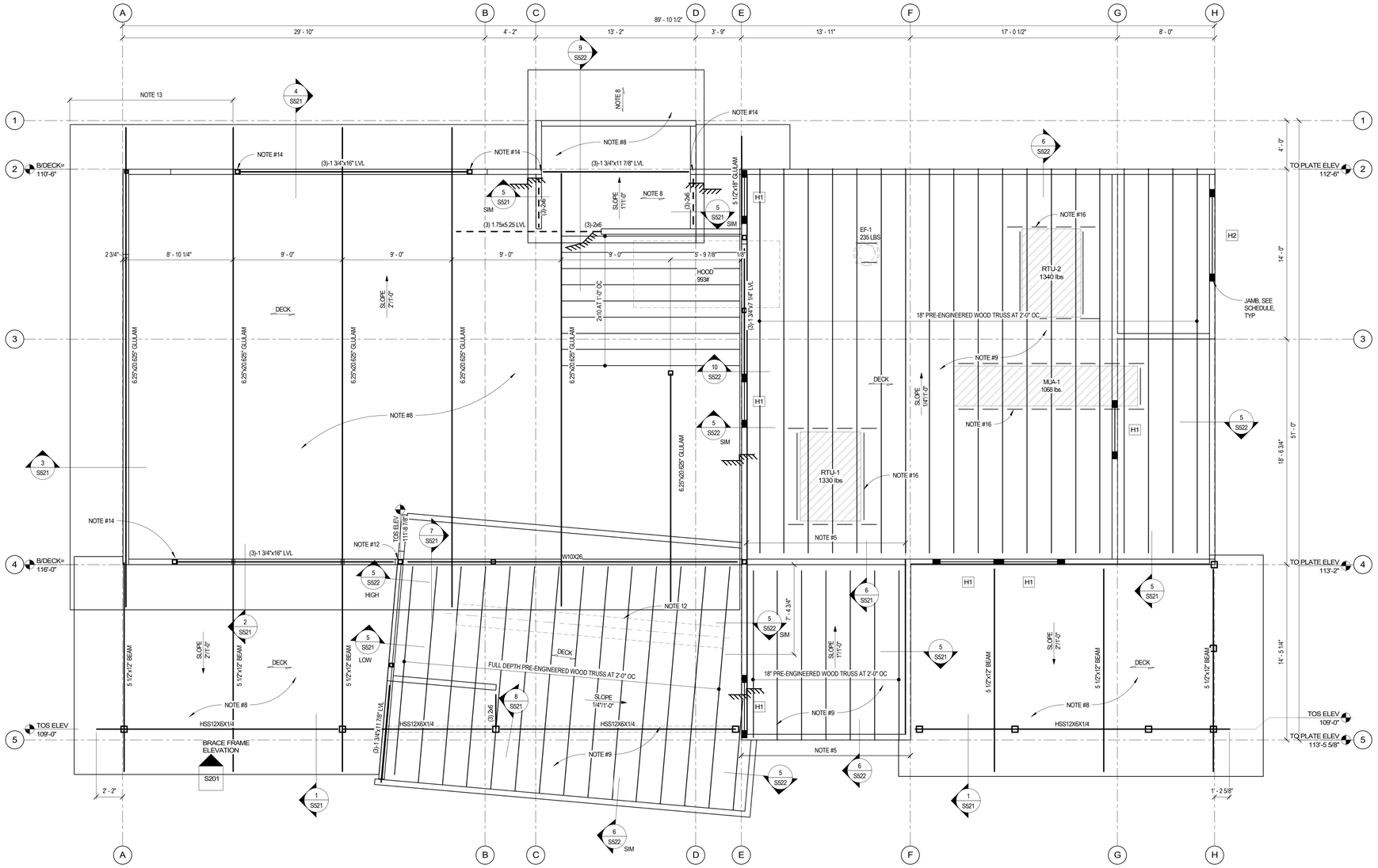
FRAMING PLAN NOTES (WOOD)

1. SEE SHEET S001 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
3. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATION OF PENETRATIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
4. FASTEN ROOF TRUSSES AT ALL BEARING POINTS W/ (1) SIMPSON H2.5A STRAP TYP, UNO.
5. # - TRUSS SUPPLIER TO PROVIDE SHEAR BLOCKING PANEL BETWEEN TRUSSES CAPABLE OF TRANSMITTING 400 PLF. WHERE # IS SHOWN AT ROOF RAFTERS, PROVIDE BLOCKING BETWEEN RAFTERS, AND CONTINUE THE SHEATHING OF THE SHEARWALL BELOW TO ATTACH TO THIS BLOCKING.
6. ALL FRAMING MEMBERS TO BEAR ON TOP OF COLUMNS/WALLS TYP, UNO.
7. TOP OF STEEL ELEVATION FOR ALL STEEL MEMBERS IS TO BE 1 1/2" LOWER THAN ADJACENT WOOD FRAMING TO ALLOW FOR INSTALLATION OF SINGLE 2x NAILER ON TOP OF STEEL BEAM.
8. 6 1/2" SIP PANEL, AT JOINTS, PROVIDE 7/16" x3" OSB SURFACE SPLINE AND 0.131"x2 1/2" NAILS, 2" ON CENTER STAGGERED 3/8", AT SUPPORTS, PROVIDE 10" LENGTH, 0.150" SHANK DIAMETER, 0.255" THREAD OD, 2.750" THREAD LENGTH, 0.625" HEAD DIAMETER SIP SCREW, 3" OC
9. ALL ROOF SHEATHING SHALL BE APA RATED STRUCTURAL1/EXPOSURE 1 SHEATHING WITH A MINIMUM THICKNESS OF 15/32", WITH A SPAN RATING OF AT LEAST 32/16 NAILED WITH 8d GALVANIZED COMMON NAILS AT 4" OC AT PANEL EDGES AND AT 12" OC AT INTERMEDIATE SUPPORTS TYP, UNO.
10. WALLS SHOWN ARE LOAD BEARING WALLS AND SHEARWALLS. STUDS ARE TO BE 2X6 AT 16" OC DOUGLAS FIR SOUTH NO. 2, UNO. SEE ARCH FOR STUD WALL LOCATIONS.
11. SEE SCHEDULE FOR HEADER INFORMATION.
12. TRUSS SUPPLIER TO PROVIDE MECHANICAL OPENING IN TRUSSES, REF. ARCH/MEP DRAWINGS
13. CONTINUUS SIP PANLE w/ CANTILEVER PAST WALL FRAMING REF NOTE 8
14. SIMPSON ECCQ66
15. SIMPSON CCQ66
16. REF DETAIL 8/SS22

H# INDICATES HEADER, RE: SCHEDULE ON SS22



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

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: **ROOF FRAMING PLAN**

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S102

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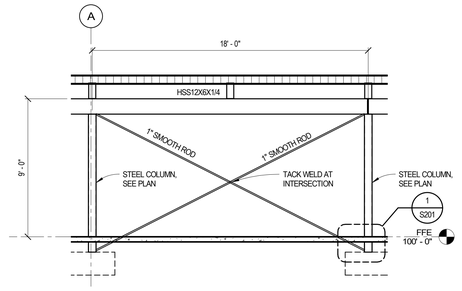
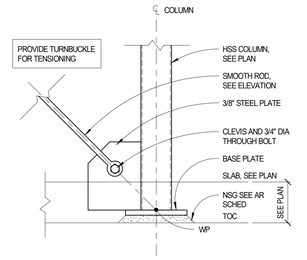


2 BRACE FRAME ELEVATION
1/4" = 1'-0"



1 BRACE DETAIL
1" = 1'-0"

LMHT Project No. 22160.00

national restaurant designers
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BPA Project # 220789
FL COA #27497

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: **BRACE FRAME ELEVATIONS**

Revisions

THRU ADDENDUM " "

NUMBER	ISSUE DATE	REVISION

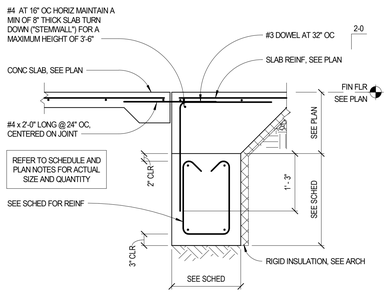
PROJECT DATE
08.05.2022

Drawn By
BH

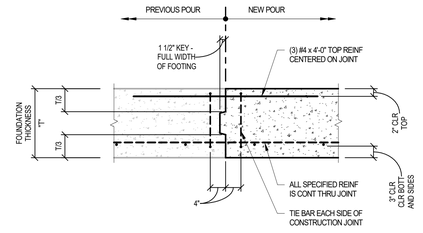
Checked By
SDH

Sheet No.
S201

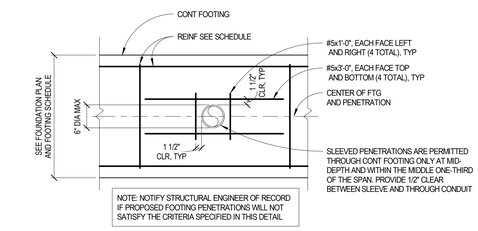
8/5/2022 9:52:53 AM



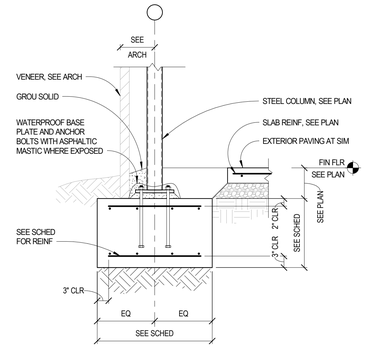
16 FOOTING DETAIL
3/4" = 1'-0"



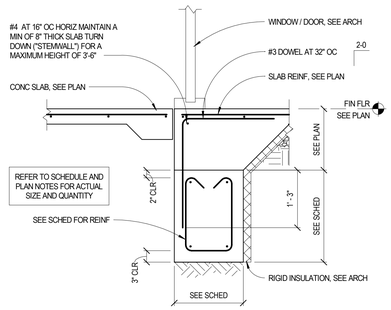
15 CONCRETE FOOTING CONSTRUCTION JOINT
3/4" = 1'-0"



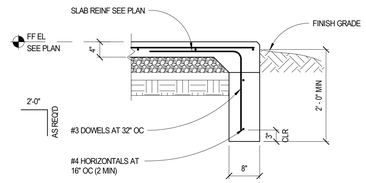
14 FOOTING PENETRATION
3/4" = 1'-0"



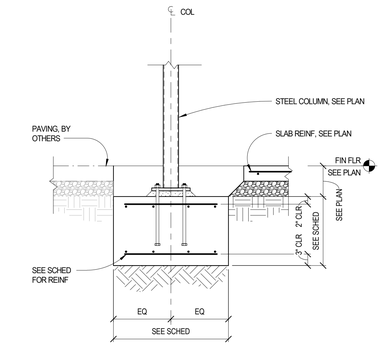
13 FOOTING DETAIL
3/4" = 1'-0"



12 FOOTING DETAIL
3/4" = 1'-0"



11 EXTERIOR SLAB EDGE DETAIL
3/4" = 1'-0"



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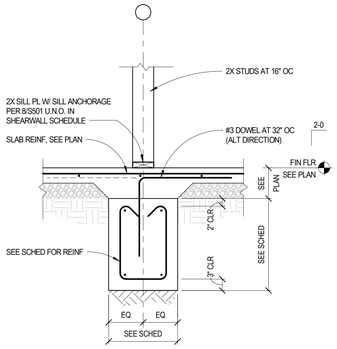
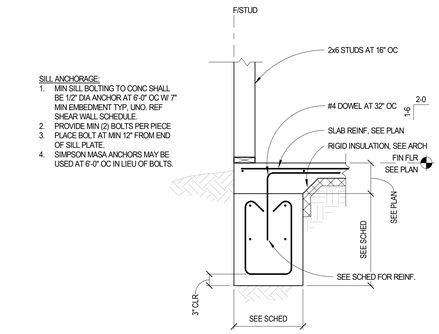
3/4" = 1'-0"



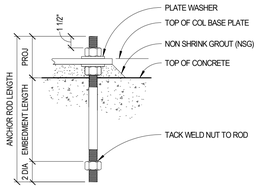
9 FOOTING DETAIL
3/4" = 1'-0"



SILL ANCHORAGE:
1. MIN SILL BOLTING TO CONC SHALL BE 1/2" DIA ANCHOR AT 6'-0" OC W/ 7" MIN EMBEDMENT TYP, UNO. REF SHEAR WALL SCHEDULE.
2. PROVIDE MIN (2) BOLTS PER PIECE
3. PLACE BOLT AT MIN 12" FROM END OF SILL PLATE.
4. SIMPSON MASA ANCHORS MAY BE USED AT 6'-0" OC IN LIEU OF BOLTS.

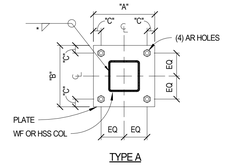
8 TYP PERIMETER FOOTING DETAIL
3/4" = 1'-0"

ANCHOR ROD SCHEDULE	
DIA	NSG
≤ 3/4"	1 1/2"
≥ 1"	2"



NOTES:
1. SEE BASE PLATE SCHEDULE FOR ANCHOR ROD SIZE AND EMBEDMENT.
2. ANCHOR RODS SHALL MEET THE REQUIREMENTS OF ASTM F1554 UNLESS NOTED OTHERWISE.
3. ALL ANCHOR RODS SHALL BE FURNISHED WITH HEAVY HEX NUTS AND CUT WASHERS OF SPECIFICATIONS COMPATIBLE WITH THOSE OF THE THREADED SHANKS UNLESS NOTED OTHERWISE.
4. FOR CONVENTIONAL COLUMNS (WF AND HSS SHAPES) A NUT SHALL BE PLACED UNDER THE BASE PLATE AND USED FOR LEVELING.
5. HEADED BOLTS MAY BE SUBSTITUTED FOR RODS AS SHOWN.
6. NON-SHRINK GROUT (NSG) SHALL BE NONMETALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI AT 28 DAYS.

7 ANCHOR ROD DETAILS
NO SCALE

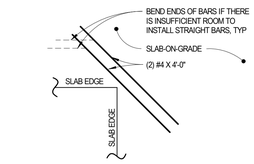


TYPE A

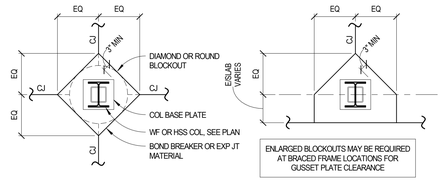
BASEPLATE SCHEDULE							
			DIMENSIONS				ANCHOR RODS
MARK	TYPE	THICKNESS	"A"	"B"	"C"	"D"	(DIAxEMB)
B1	A	3/4"	1'-0"	1'-0"	1 1/2"	--	3/4" x 1'-0"

NOTES:
1. USE OVERSIZED HOLES AND WASHERS FOR ANCHORS RODS ACCORDING TO AISC MANUAL (14 ED.) TABLE 14.2 LNO.
2. SEE THIS SHEET FOR ANCHOR ROD DETAIL AND GROUT INFORMATION.
3. * - INDICATES MINIMUM FILLET WELD PER AISC.
4. HSS6x6 AND SMALLER USE B1.

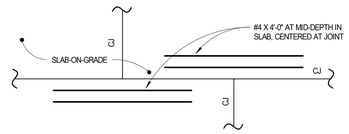
6 COLUMN BASE PLATE SCHEDULE
NO SCALE



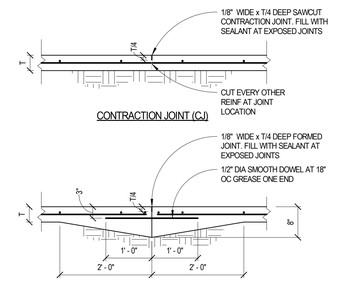
4 TYP RE-ENTRANT CORNER BAR
NO SCALE



5 TYPICAL COLUMN BLOCKOUT
NO SCALE

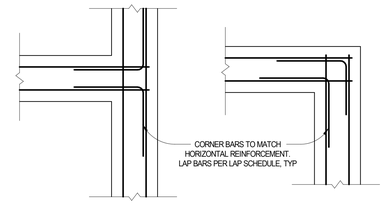


3 REINFORCING AT SLAB JOINT
NO SCALE



NOTES:
1. SEE FOUNDATION PLAN(S) FOR ADDITIONAL SLAB INFORMATION, INCLUDING DEPTH AND REINFORCING.
2. THE SAWCUTTING SHOULD BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING W/O CHIPPING, SPALLING OR TEARING BUT NOT MORE THAN 8 HOURS AFTER CASTING.
3. DOWELS SHALL BE PARALLEL TO THE SLAB'S TOP SURFACE AND PERPENDICULAR TO THE SLAB JOINT. DOWELS SHALL BE A MINIMUM OF 6" FROM ANY SLAB EDGE.

2 JOINT DETAILS
NO SCALE



1 CORNER BAR DETAILS
NO SCALE

LMHT Project No. 22160.00

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RIB CRIB GEN 6 PROTOTYPE
Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055
Drawing: FOUNDATION DETAILS

Revisions

THRU ADDENDUM " "		
NUMBER	ISSUE DATE	REVISION

PROJECT DATE
08.05.2022
Drawn By
BH
Checked By
SDH
Sheet No.
S501

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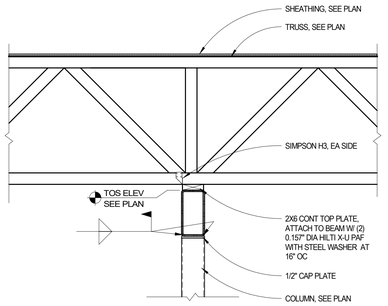
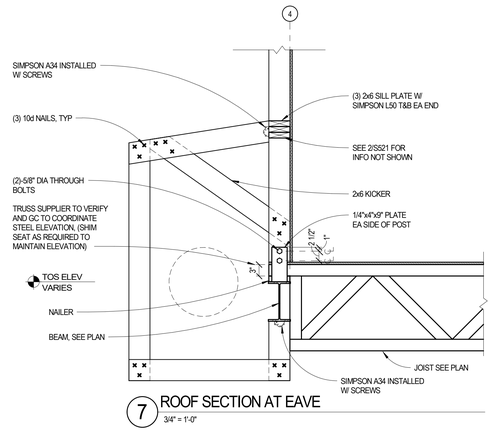
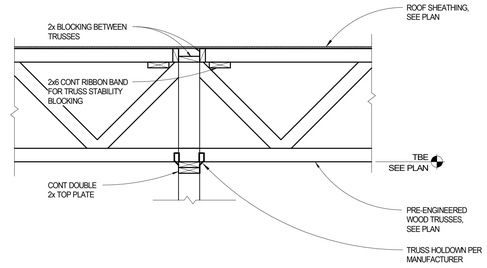


8 ROOF SECTION AT EAVE
3/4" = 1'-0"



7 ROOF SECTION AT EAVE
3/4" = 1'-0"



6 WALL SECTION
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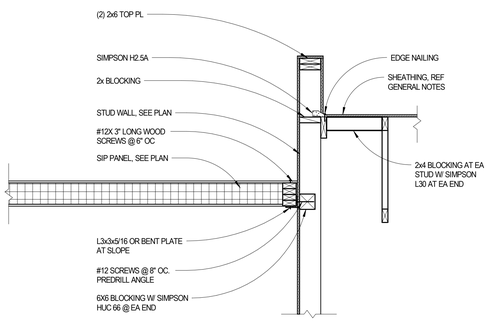
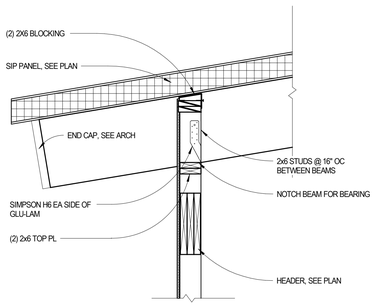
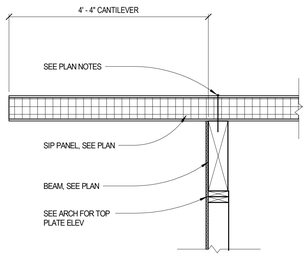


5 SIP BEARING SECTION
3/4" = 1'-0"



4 ROOF SECTION AT EAVE
3/4" = 1'-0"



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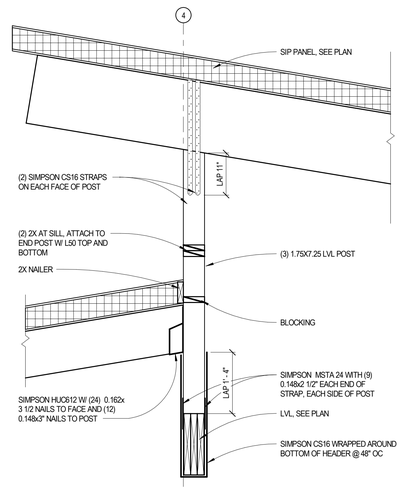

2 ROOF SECTION AT EAVE
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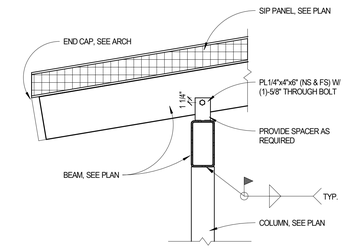

1 GLU-LAM AT BEAM
3/4" = 1'-0"

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: **FRAMING DETAILS**

Revisions

NUMBER	ISSUE DATE	REVISION
THRU ADDENDUM " "		

PROJECT DATE
08.05.2022

Drawn By
BH

Checked By
SDH

Sheet No.
S521

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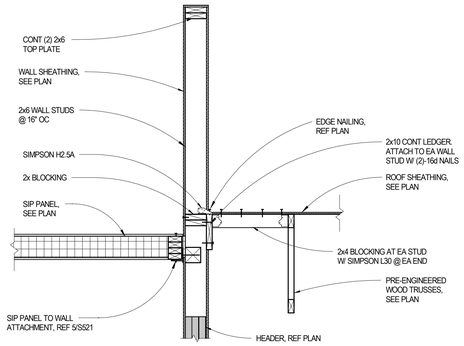

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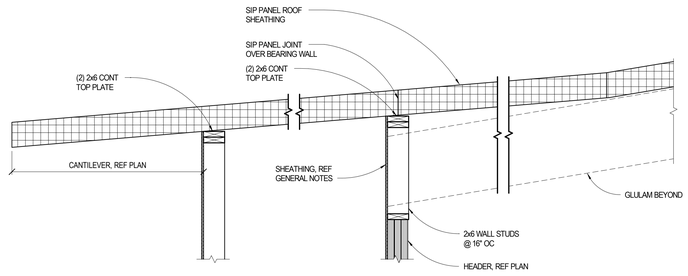
3/4" = 1'-0"



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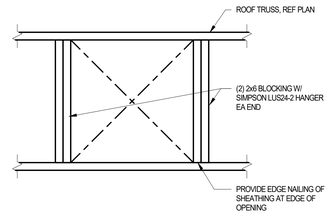
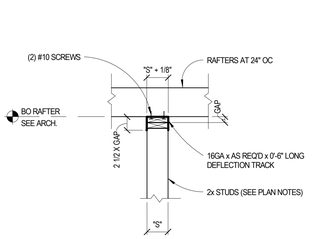


8 ROOFTOP UNIT SUPPORT DETAIL
1" = 1'-0"

SHEAR WALL SCHEDULE

MARK	SHEATHING THICKNESS	BLOCKING	FRAMING	PERIMETER SUPPORT	INTERMEDIATE SUPPORTS	HOLDOWNS AT BASE	NUMBER END STUDS	SILL ANCHORAGE	NOTES	Include
SW1	7/16"	YES	2x AT 16" OC	8d COMMON OR 0.131" DIA PNEUMATIC AT 6" OC	8d COMMON OR 0.131" DIA PNEUMATIC AT 6" OC	SIMPSON HDU5-SDS2.5 W/ 5/8" DIA SIMPSON SSTB20 ANCHOR	2, UNO	(1) 1/2" DIA SIMPSON TITEN HD ANCHOR AT 32" OC W/ 3 1/4" EMBEDMENT	N/A	Yes
SW2	7/16"	YES	2x AT 16" OC	8d COMMON OR 0.131" DIA PNEUMATIC AT 6" OC	8d COMMON OR 0.131" DIA PNEUMATIC AT 6" OC	SIMPSON HDU5-SDS2.5 W/ 5/8" DIA SIMPSON SSTB20 ANCHOR	3, UNO	(1) 1/2" DIA SIMPSON TITEN HD ANCHOR AT 32" OC W/ 3 1/4" EMBEDMENT	N/A	Yes
SW3	7/16"	YES	2x AT 16" OC	8d COMMON OR 2" DIA PNEUMATIC AT 3" OC	8d COMMON OR 0.131" DIA PNEUMATIC AT 6" OC	SIMPSON HDY 8-SDS2.5 w/ 5/8" DIA SIMPSON SSTB20 ANCHOR	3, UNO	(1) 1/2" DIA SIMPSON TITEN HD ANCHOR AT 24" OC W/ 20" EMBEDMENT	N/A	Yes



7 WOOD WALL DEFLECTION DETAIL
3/4" = 1'-0"

6 TYP ROOF DETAIL WITH TRUSS PERP TO WALL
3/4" = 1'-0"

5 TYP ROOF DETAIL WITH TRUSS PARALLEL TO WALL
3/4" = 1'-0"

4 SHEARWALL CONSTRUCTION AND SCHEDULE
3/4" = 1'-0"

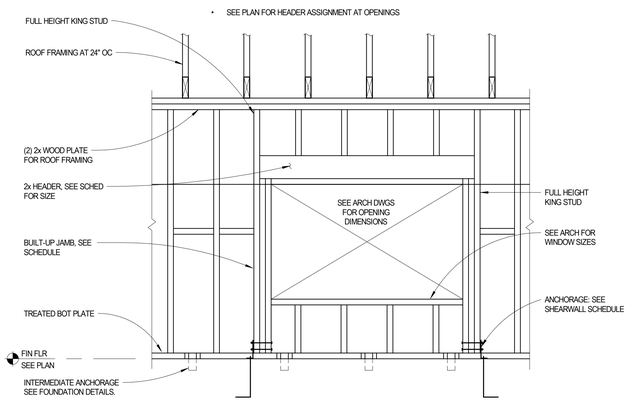
ROOF SHEATHING NOTES

1. STAGGER JOINTS AS SHOWN
2. MIN SIZE OF SHEET SHALL BE 24"x24"
3. NAIL EA CORNER OF PANEL & MID-POINT OF FULL SIZE SHEETS PRIOR TO NAILING
4. NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING
5. TOLERANCE ON FASTENING SHALL BE +/- 1" WITH THE AVERAGE NAIL SPACING OVER ANY 48" LENGTH BEING AT LEAST THAT NOTED ON THE PLAN
6. SEE DETAIL FOR BLOCK DETAILS AT RIDGES
7. SEE WOOD ROOF SHEATHING NOTES ON THE GENERAL NOTES SHEET AND THE PLAN NOTES

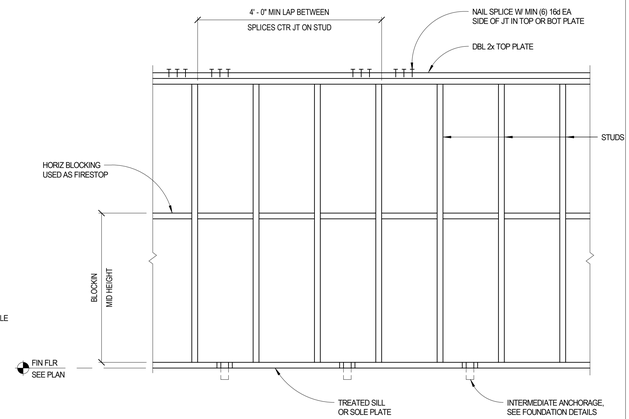
3 ROOF SHEATHING ON FRAMING
3/4" = 1'-0"

MARK	MAX SPAN	HEADER	JACK STUD	KING STUD
H1	UP TO 5'-0"	(3) 2x10	(1) 2x	(3) 2x
H2	UP TO 6'-4"	(3) 1 3/4"x11 7/8" LVL	(2) 2x	(3) 2x
H3	UP TO 12'-0"	(3) 1 3/4"x14" LVL	(3) 2x	(3) 2x

• SEE PLAN FOR HEADER ASSIGNMENT AT OPENINGS



2 EXTERIOR LINTEL ELEV AT BEARING WALL
3/4" = 1'-0"



1 TYP BEARING STUD WALL ELEV
3/4" = 1'-0"

LMHT Project No. 22160.00

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08/05/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: **WOOD FRAMING DETAILS**

Revisions

THRU ADDENDUM " "

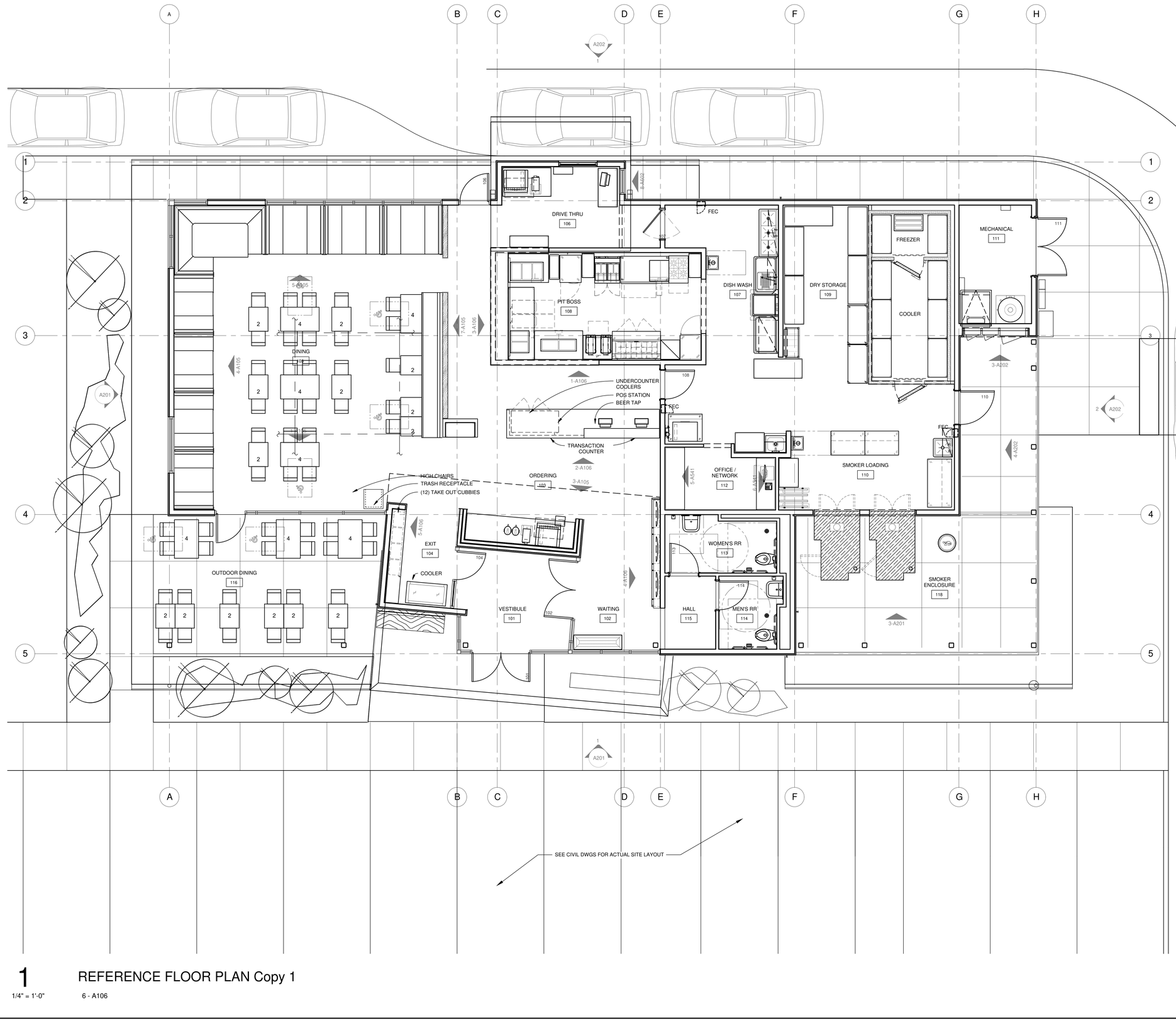
NUMBER	ISSUE DATE	REVISION

PROJECT DATE
08.05.2022

Drawn By
BH

Checked By
SDH

Sheet No.
S522



1 REFERENCE FLOOR PLAN Copy 1

1/4" = 1'-0" 6 - A106

LMHT Project No. 22160.00

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STATE OF FLORIDA
GLEN LEHMANN
AR97728
REGISTERED ARCHITECT
8/12/22

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RIB CRIB CEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: REFERENCE FLOOR PLAN

Revisions

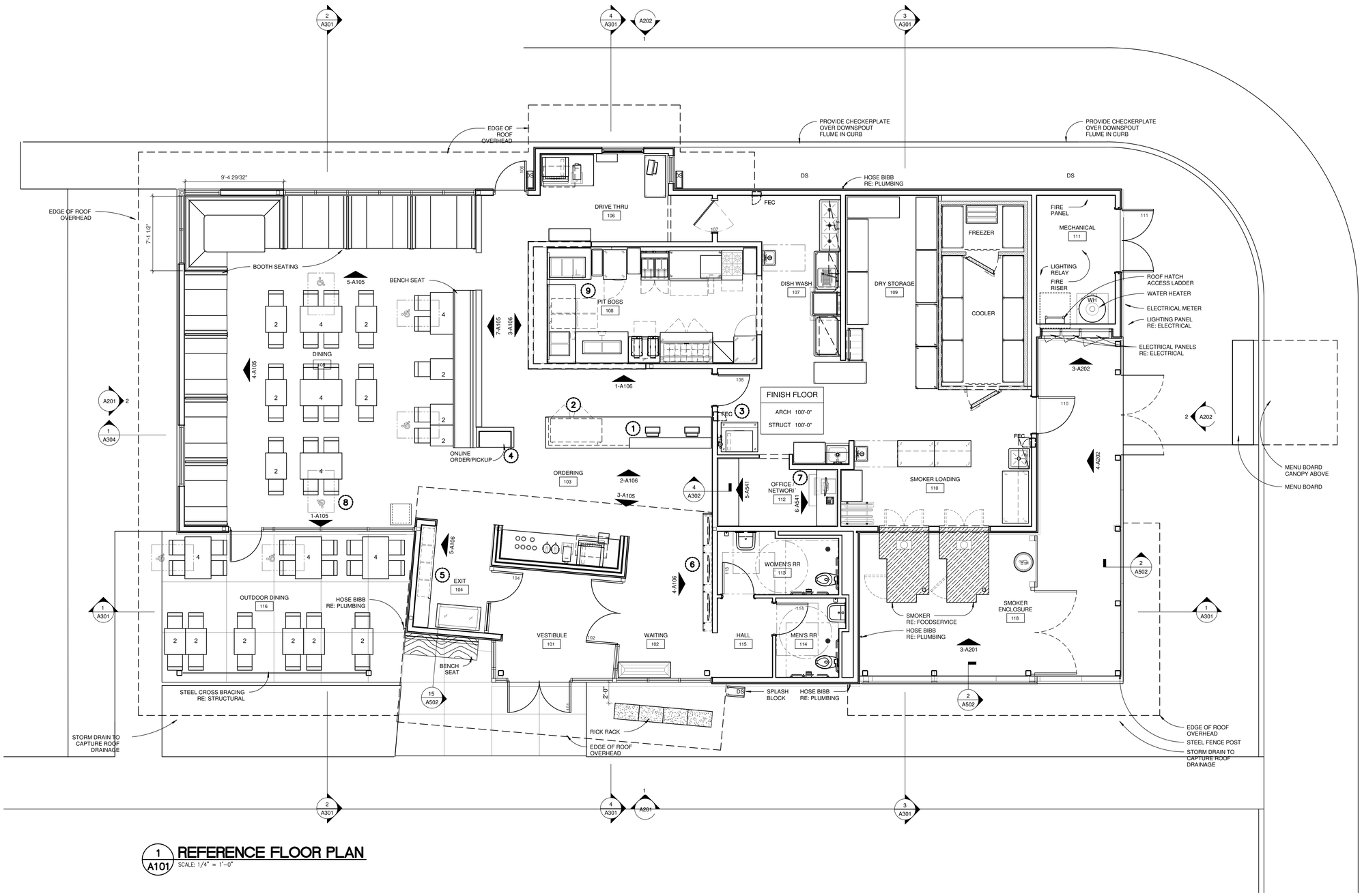
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A100



1 A101 REFERENCE FLOOR PLAN

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

Drawing File: Z:\2022\22160-RBC Lake City FL Site Adapt\CAD\A101.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:34pm

LMHT Project No. 22160.00

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8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: REFERENCE FLOOR PLAN

Revisions

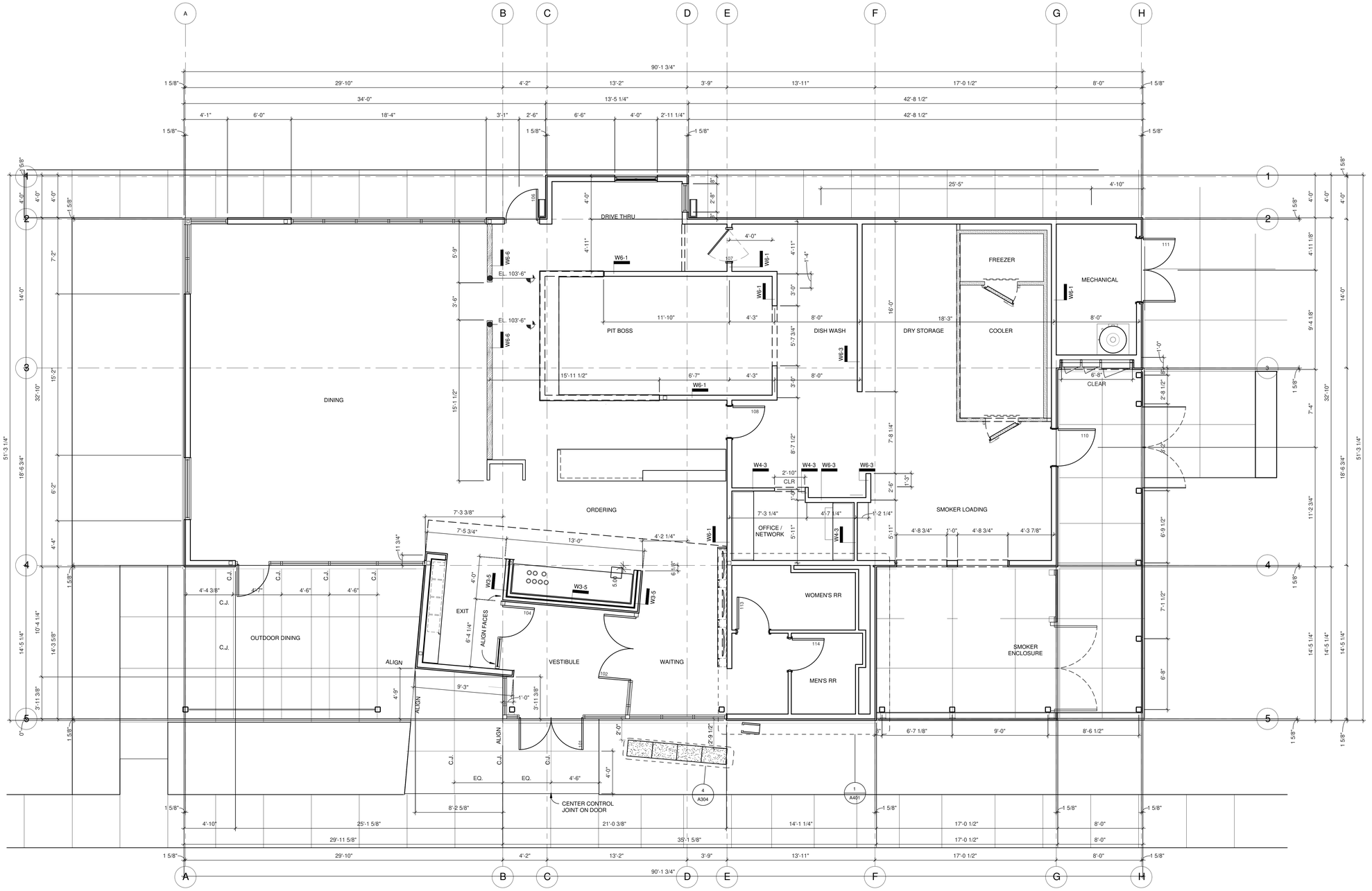
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A101



1
1/4" = 1'-0"

DIMENSION FLOOR PLAN

PROJECT NORTH

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A102.dwg
Plotted by: schosten
Plotted Date: Aug 12, 2022 - 2:34pm

LMHT Project No. 22160.00

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: DIMENSIONED FLOOR PLAN

Rib Crib BBQ

Revisions

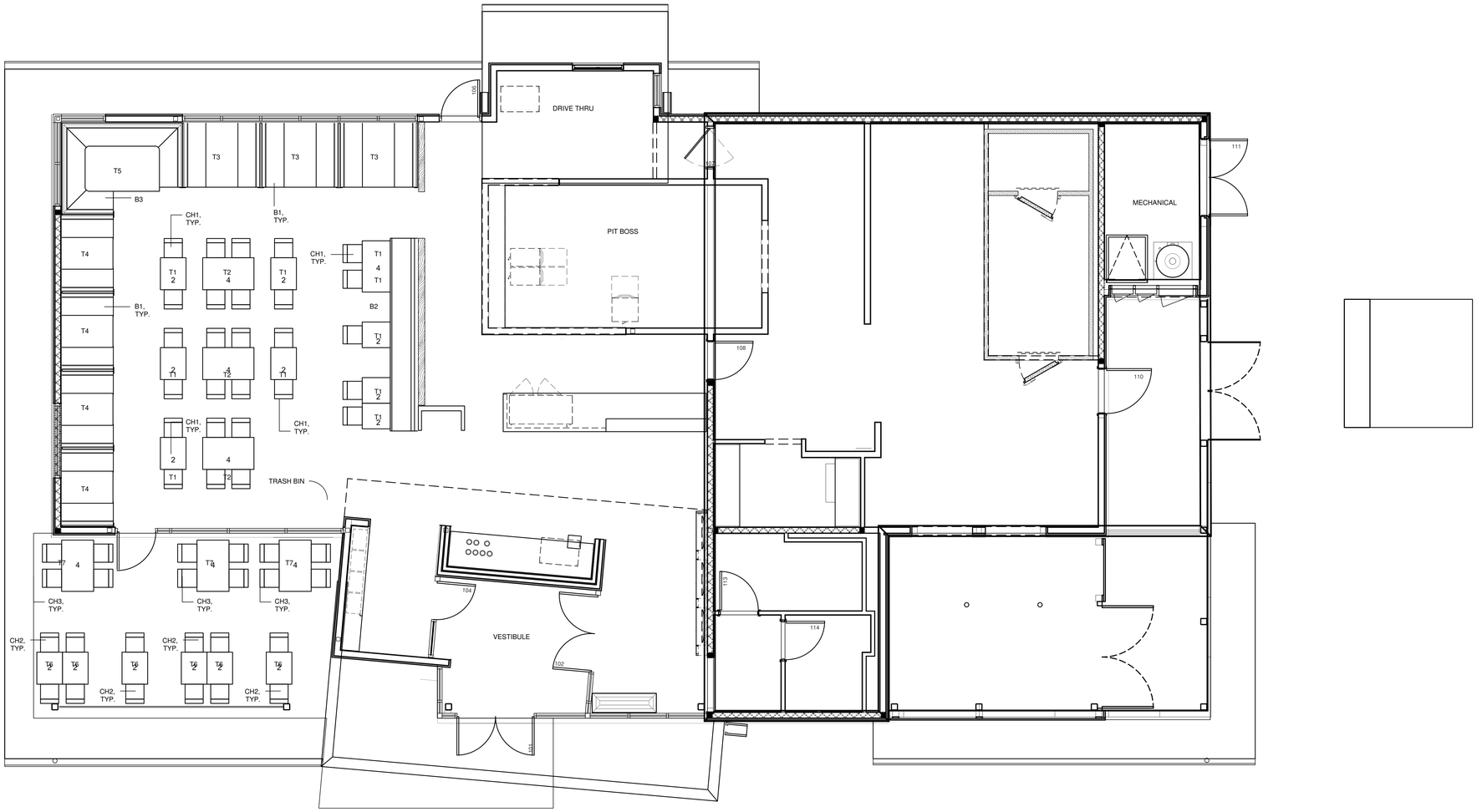
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A102



1 FURNITURE PLAN

1/4" = 1'-0" 6 - A106

FURNITURE LEGEND

B1 IN-LINE BOOTH, RE: A107

B2 BANQUETTE, RE: A107

B3 U-SHAPED BOOTH, RE: A107

CH1 G&A COMMERCIAL SEATING
PRODUCT: DANTE SIDE CHAIR
MODEL NUMBER: 513-B PS
LADDER BACK, UPHOLSTERED
PADDED SEAT, WELDED JOINT
ASSEMBLY, 18 GAUGE 1-1/4
STEEL SQUARE FRAME WITH
MATTE BLACK FINISH, NON-
MARRING FLOOR GLIDES
VINYL: VNS-013 NEW SOHO EBONY

CH2 EAST COAST CHAIR & BARSTOOL
LUCA COLLECTION SIDE CHAIR,
W-LUCA-SCH-BLK

CH3 EAST COAST CHAIR & BARSTOOL
LUCA COLLECTION BARSTOOL,
W-LUCA-BS-BLK

T1 INDOOR DINING TABLE
SIZE: 24" X 36"
TOP: EAST COAST CHAIR & BARSTOOL;
URBAN DISTRESSED WOOD
TABLE TOP, 1 3/4" THICK,
PROVINCIAL FINISH
BASE: MSW RESTAURANT FURNISHINGS
22" X 22" BLACK DINING HEIGHT
X-BASE, 3" COLUMN DH

T2 INDOOR DINING TABLE
SIZE: 30" X 48"
TOP: EAST COAST CHAIR & BARSTOOL;
URBAN DISTRESSED WOOD
TABLE TOP, 1 3/4" THICK,
PROVINCIAL FINISH
BASE: MSW RESTAURANT FURNISHINGS,
TO BE DETERMINED

T3 INDOOR DINING TABLE
SIZE: 30" X 60"
TOP: EAST COAST CHAIR & BARSTOOL;
URBAN DISTRESSED WOOD
TABLE TOP, 1 3/4" THICK,
PROVINCIAL FINISH
BASE: MSW RESTAURANT FURNISHINGS,
2¢ CANTILEVER BRACKET (BLACK)
& PIN LEG, STANDARD HEIGHT (BLACK),
WALL ANGLE NOT INCLUDED

T4 INDOOR DINING TABLE
SIZE: 30" X 48"
TOP: EAST COAST CHAIR & BARSTOOL;
URBAN DISTRESSED WOOD
TABLE TOP, 1 3/4" THICK,
PROVINCIAL FINISH
BASE: MSW RESTAURANT FURNISHINGS,
2¢ CANTILEVER BRACKET (BLACK)
& PIN LEG, STANDARD HEIGHT (BLACK),
WALL ANGLE NOT INCLUDED

T5 INDOOR DINING TABLE
SIZE: 42" X 70"
TOP: EAST COAST CHAIR & BARSTOOL;
URBAN DISTRESSED WOOD
TABLE TOP, 1 3/4" THICK,
PROVINCIAL FINISH
BASE: MSW RESTAURANT FURNISHINGS,
TO BE DETERMINED

T6 OUTDOOR DINING TABLE
SIZE: 24" X 30"
TOP: EAST COAST CHAIR & BARSTOOL;
LUCA COLLECTION TABLE TOP
W-LUCA-2430
BASE: SHIPYARD COLLECTION OUTDOOR
SINGLE TABLE BASE IN BLACK
POWDER FINISH (TABLE HEIGHT)
W-SYBASE-TH-BLK

T7 OUTDOOR DINING TABLE
SIZE: 30" X 48"
TOP: EAST COAST CHAIR & BARSTOOL;
LUCA COLLECTION TABLE TOP
W-LUCA-3048
BASE: SHIPYARD COLLECTION OUTDOOR
SINGLE TABLE BASE IN BLACK
POWDER FINISH (BAR HEIGHT)
W-SYBASE-DBL-BH-BLK

LMHT Project No. 22160.00

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8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: FURNITURE PLAN

Revisions

THRU ADDENDUM " "

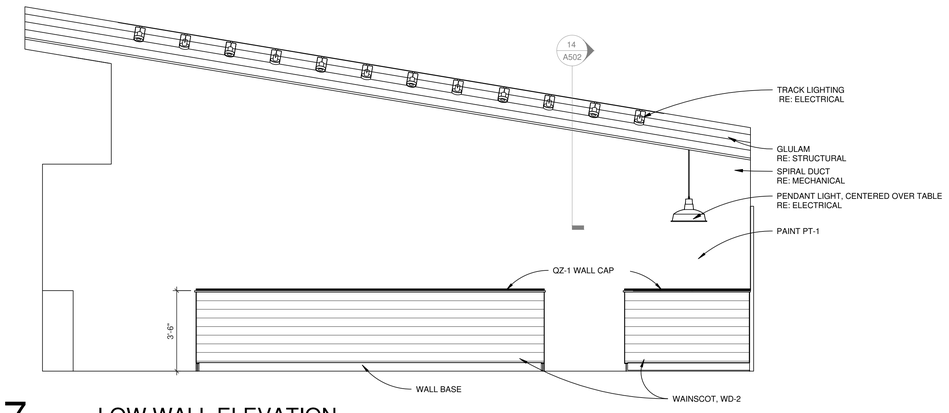
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

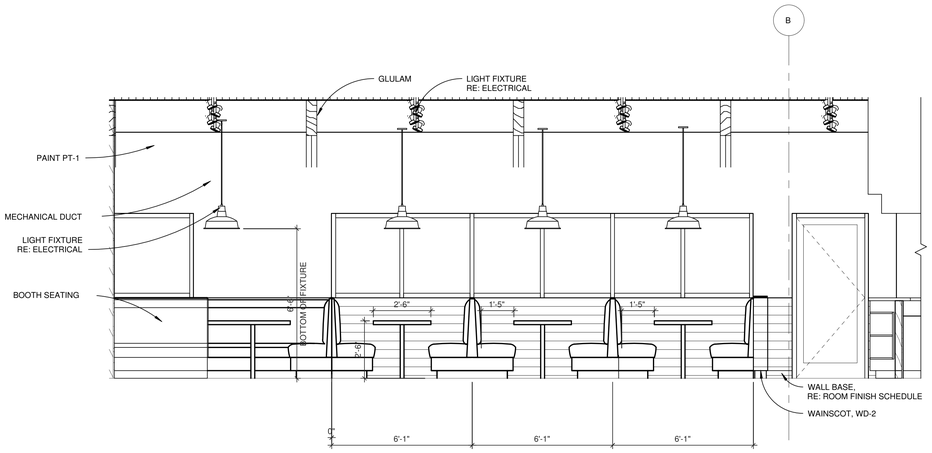
Sheet No.
A104

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A104.dwg
Plotted by: cholsten
Plotted Date: Aug 12, 2022 - 2:34pm



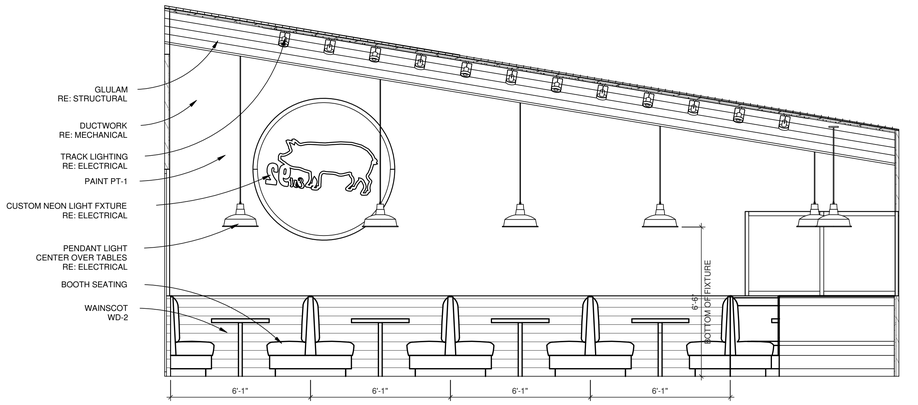
7 LOW WALL ELEVATION

3/8" = 1'-0" 1 - A100



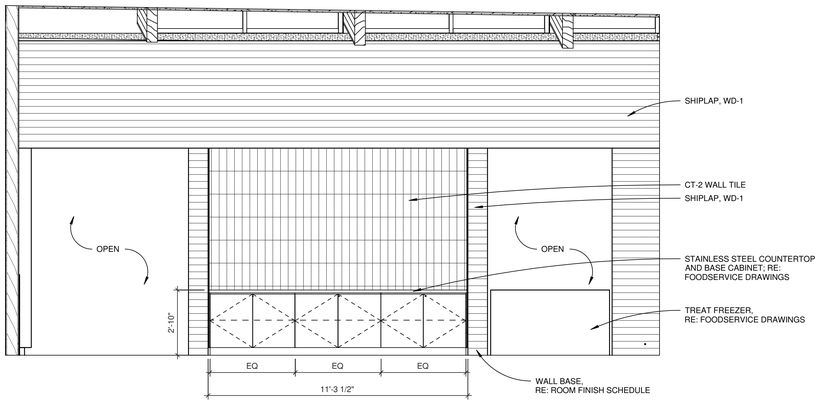
5 DINING ELEVATION

3/8" = 1'-0" 1 - A100



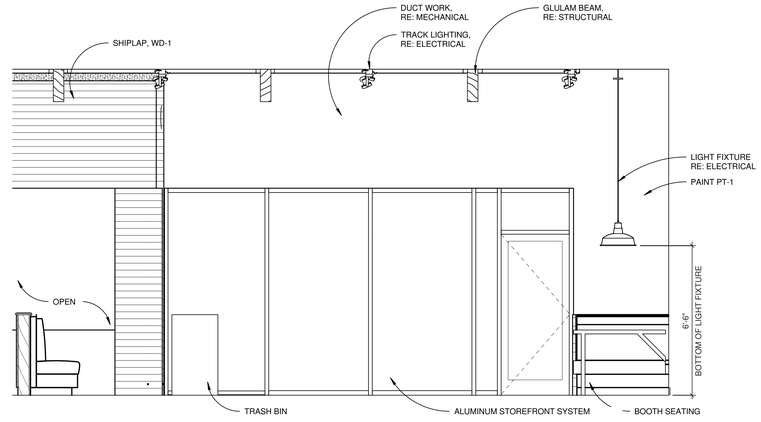
4 DINING ELEVATION

3/8" = 1'-0" 1 - A100



3 BEVERAGE STATION ELEVATION

3/8" = 1'-0" 1 - A100



1 DINING ELEVATION

3/8" = 1'-0" 1 - A100

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8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: INTERIOR ELEVATIONS

Revisions

THRU ADDENDUM	" "

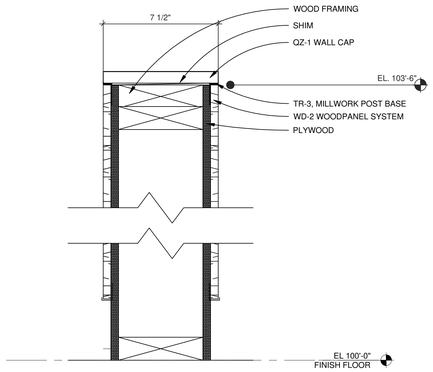
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

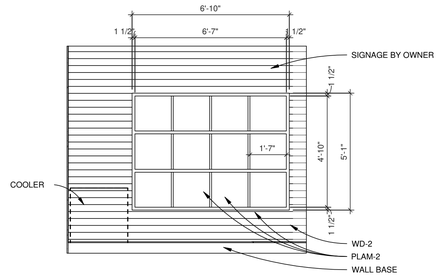
Sheet No.
A105

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\A105.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:34pm



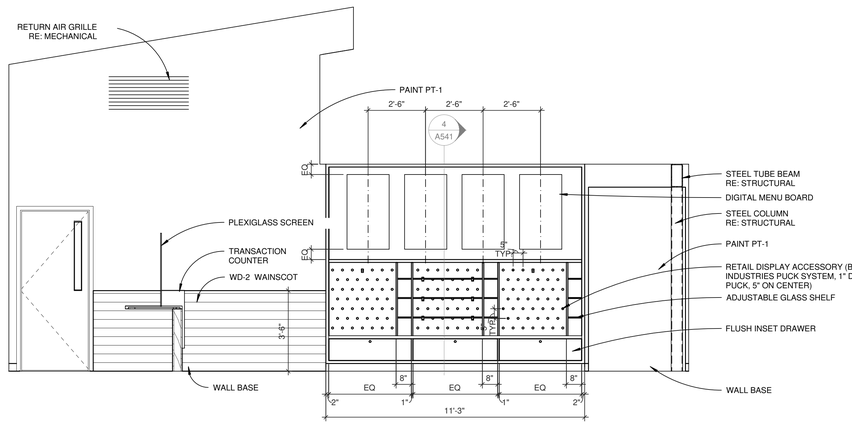
6 WALL CAP DETAIL

3" = 1'-0" 2 - A106



5 TO GO ELEVATION

3/8" = 1'-0" 1 - A100



4 RETAIL ELEVATION

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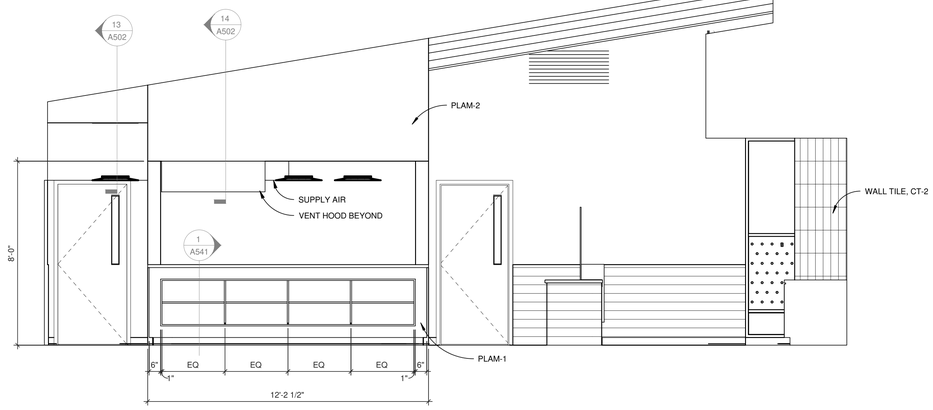
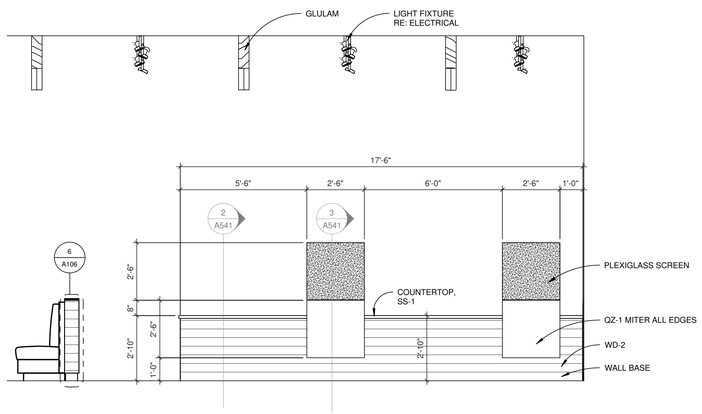


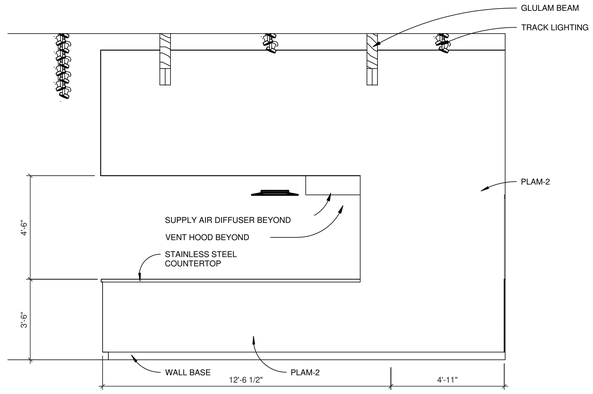
3 PIT BOSS ELEVATION

3/8" = 1'-0" 1 - A100



2 P.O.S. COUNTER

3/8" = 1'-0" 1 - A100



1 PIT BOSS ELEVATION

3/8" = 1'-0" 1 - A100

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STATE OF FLORIDA
GLEN LEHMANN
AR97728
REGISTERED ARCHITECT
8/12/22

LMHT Project No. 22160.00

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: INTERIOR ELEVATIONS

Revisions

THRU ADDENDUM " "

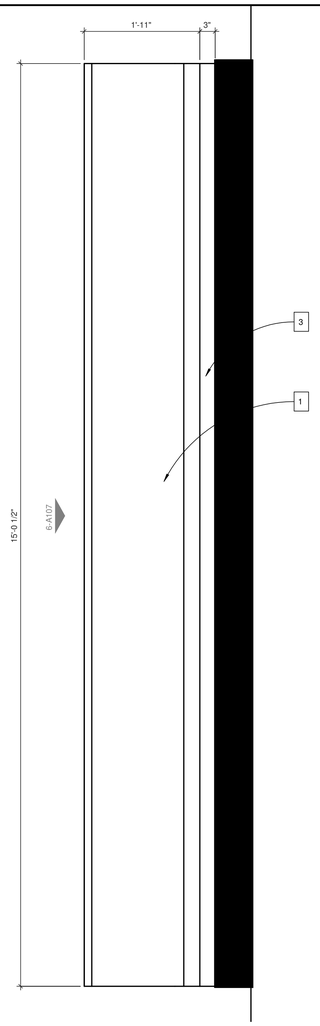
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A106

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A106.dwg
Plotted by: chudsen
Plotted date: Aug 12, 2022 - 2:34pm



10 BOOTH PLAN

1" = 1'-0"

1 - A101

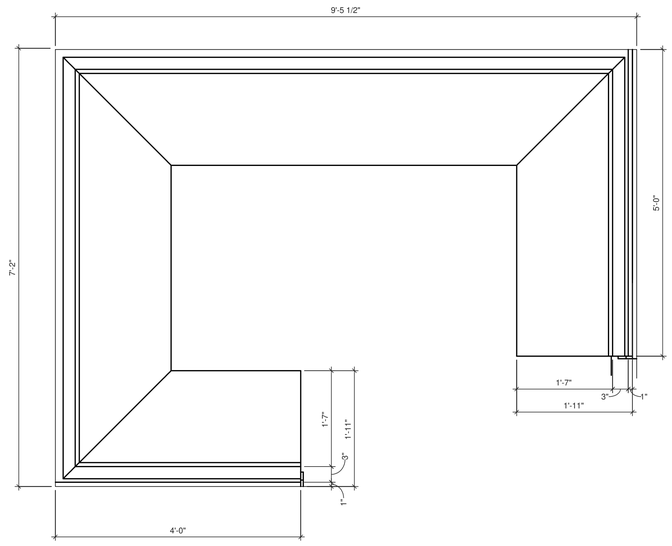
NOTE:

VERIFY FIELD CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION.

1. UPHOLSTERED NO SAG SPRING AND FOAM SEAT, NAUGAHIDE BLACK VINYL
2. RECESSED CLOSED KYDEX BASE, BLACK
3. END CAP, NAUGAHIDE BLACK VINYL
4. SEAT PLATFORM, NAUGAHIDE BLACK VINYL

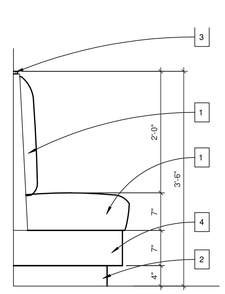
9 BOOTH NOTES

N.T.S.



8 CORNER BOOTH PLAN

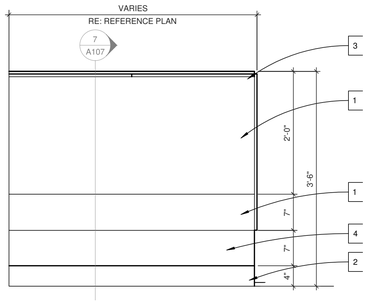
1" = 1'-0"



7 SINGLE-SIDED BOOTH PROFILE

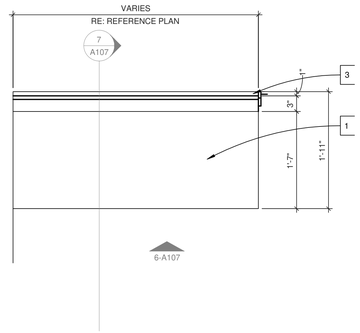
1" = 1'-0"

5 - A107



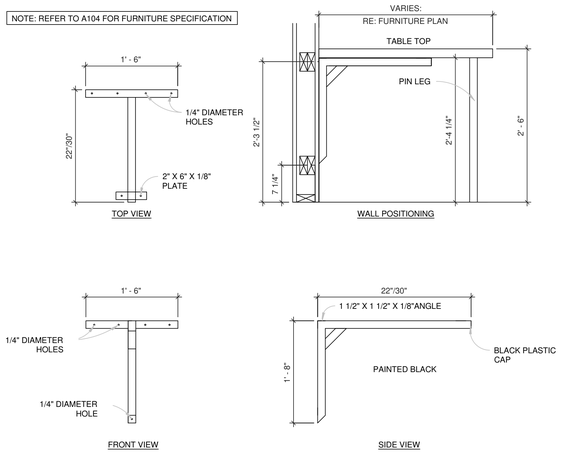
6 SINGLE-SIDED BOOTH ELEVATION

1" = 1'-0"



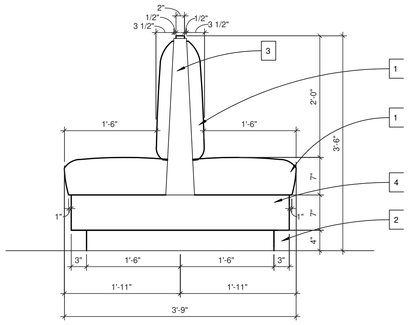
5 SINGLE-SIDED BOOTH PLAN

1" = 1'-0"



4 CANTILIVERED BRACKET DETAILS

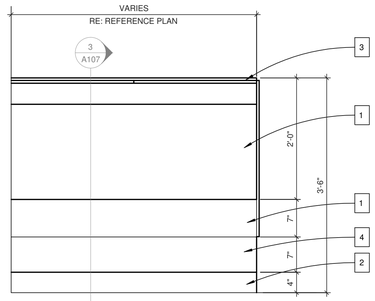
1" = 1'-0"



3 IN-LINE BOOTH PROFILE

1" = 1'-0"

2 - A107



2 IN-LINE BOOTH ELEVATION

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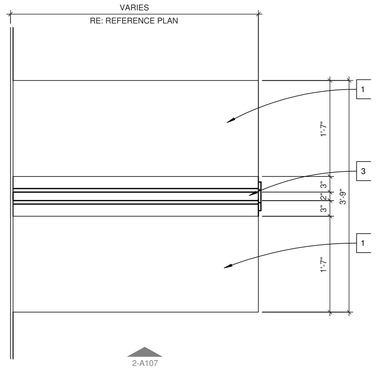

1 IN-LINE BOOTH PLAN

1" = 1'-0"

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STATE OF FLORIDA
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#97728
REGISTERED ARCHITECT

8/12/22

LMHT Project No. 22160.00

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: BOOTH DETAILS

Revisions

THRU ADDENDUM " "

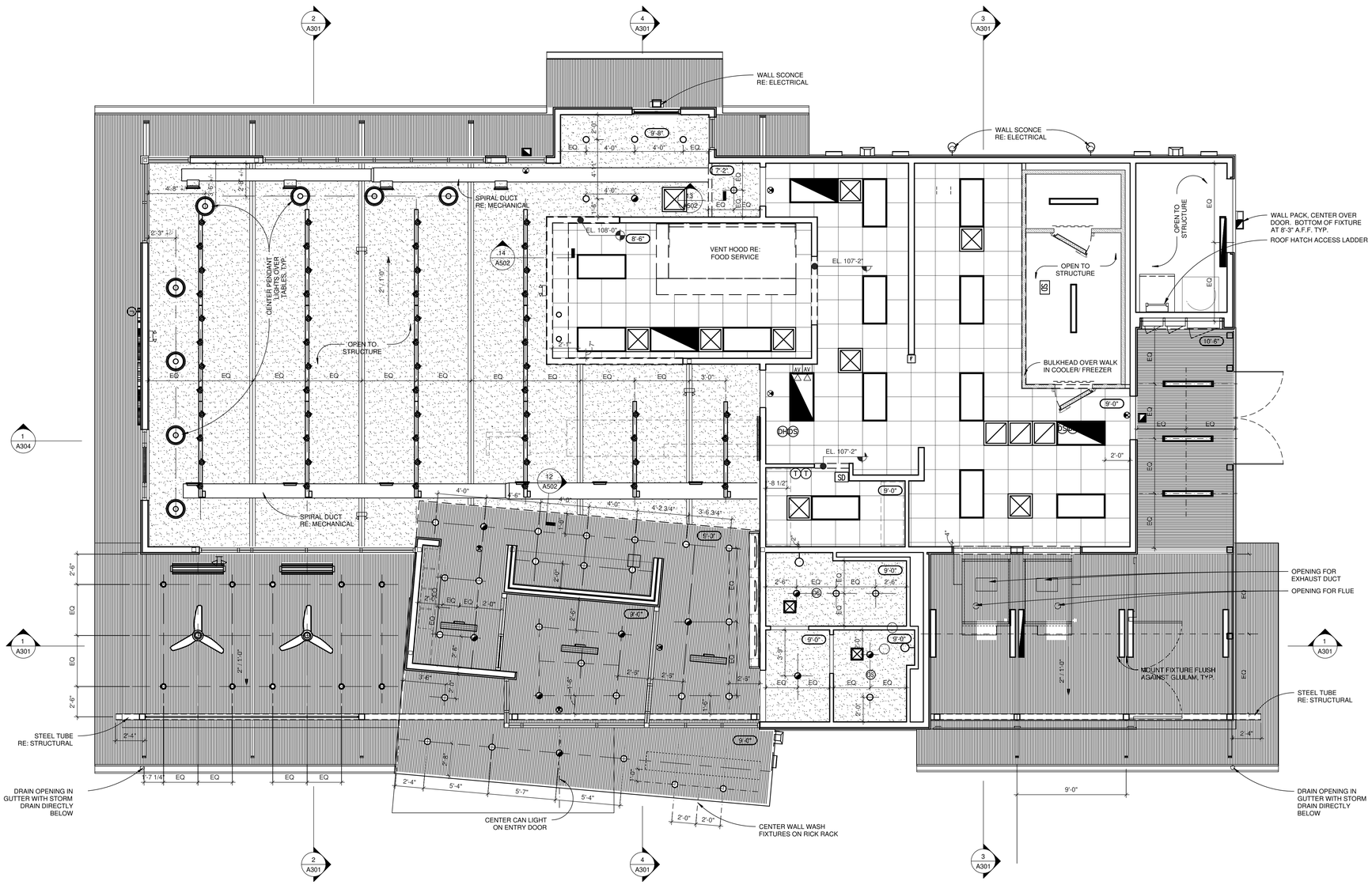
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A107

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_8472\A107.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:34pm



1 A121 REFLECTED CEILING PLAN

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

PROJECT NORTH

REFLECTED CEILING PLAN LEGEND

GYPSUM BOARD CEILING

GALVANIZED CORRUGATED METAL PANEL CEILING / SOFFIT

12'-0" CEILING HEIGHT

SUSPENDED CEILING

DECORATIVE PENDANT LIGHT

TRACK LIGHT

EXTERIOR PSURFACE MOUNT CAN LIGHT

EXIT LIGHT

RECESSED CAN LIGHT

CEILING FAN

2' X 4' LIGHT FIXTURE

EXTERIOR HEATER

WALL SCONCE

1' X 4' LIGHT FIXTURE

STEEL JOIST/BEAM

OCCUPANCY SENSOR

LMHT Project No. 22160.00

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: REFLECTED CEILING PLAN

Revisions

THRU ADDENDUM " "

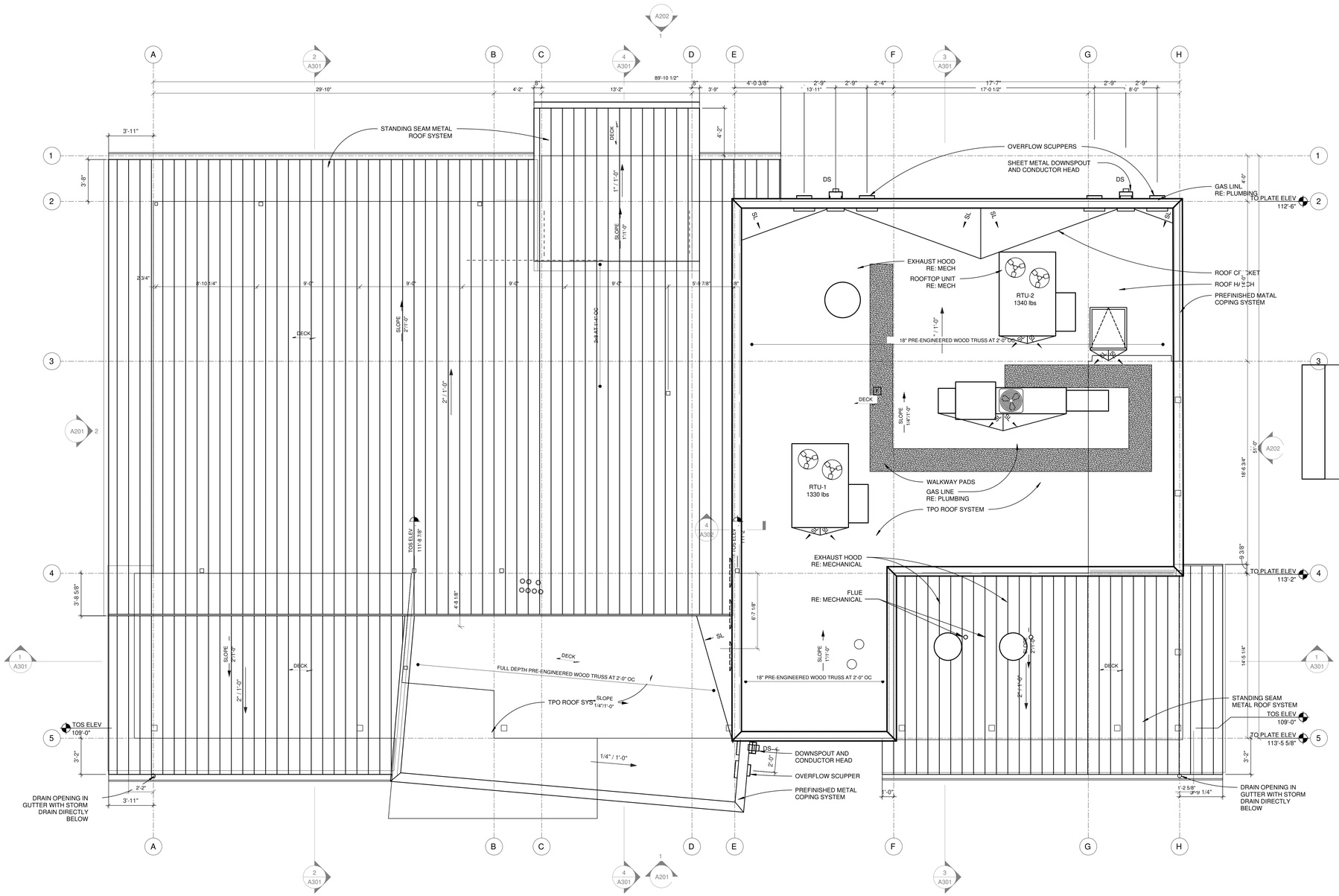
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A121

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A121.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:34pm



1 A141 **ROOF PLAN**
SCALE: 1/4" = 1'-0"

PROJECT NORTH

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A141.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:24pm

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ROOF PLAN

Revisions

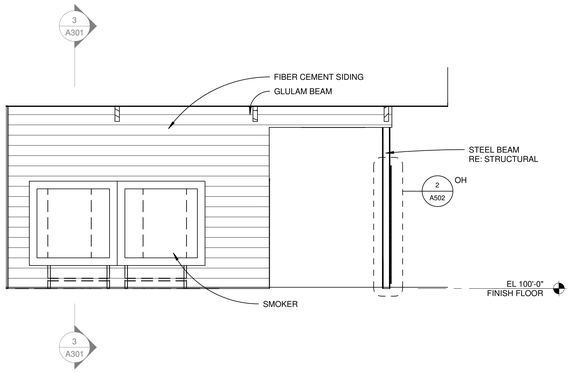
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

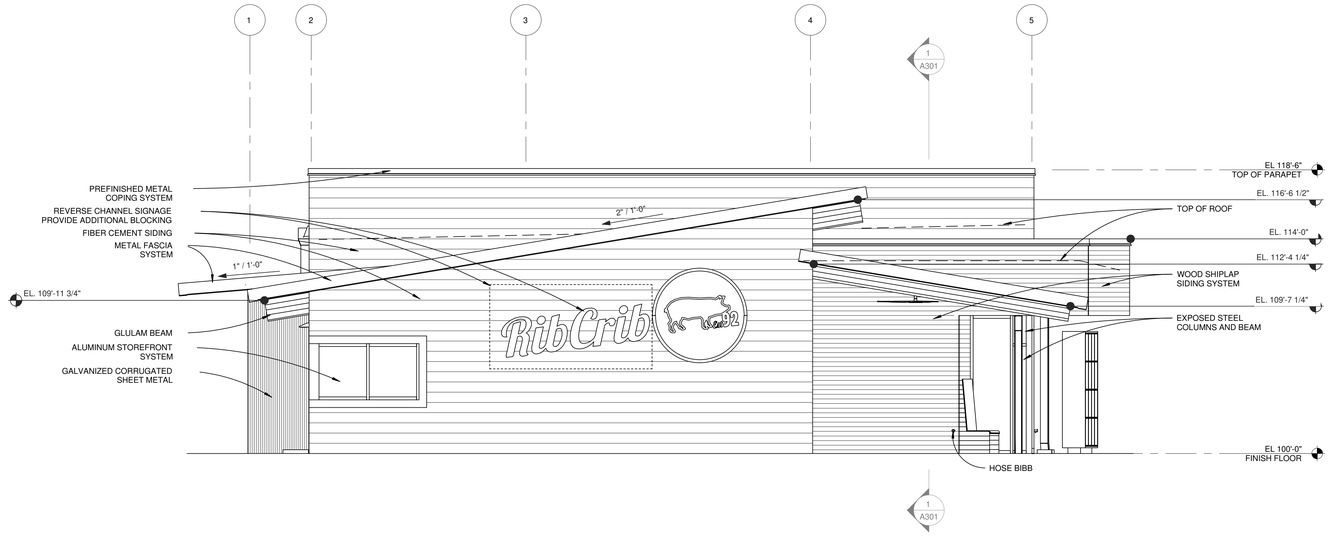
Checked By
NRD

Sheet No.
A141



3 A201 SMOKER ENCLOSURE - SOUTH ELEVATION

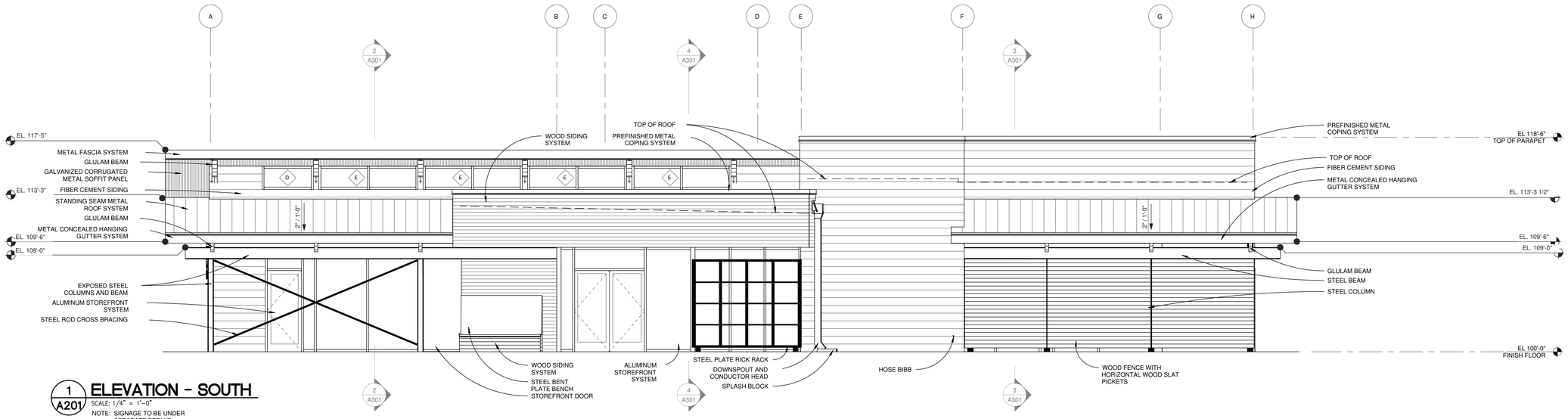
SCALE: 1/4" = 1'-0"



2 A201 ELEVATION - WEST

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

NOTE: SIGNAGE TO BE UNDER SEPARATE PERMIT



1 A201 ELEVATION - SOUTH

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

NOTE: SIGNAGE TO BE UNDER SEPARATE PERMIT

Drawing File: Z:\2022\22160-RBC Lake City FL Site Adapt\CAD\A201.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:54pm

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AR97728
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8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: EXTERIOR ELEVATIONS

Revisions

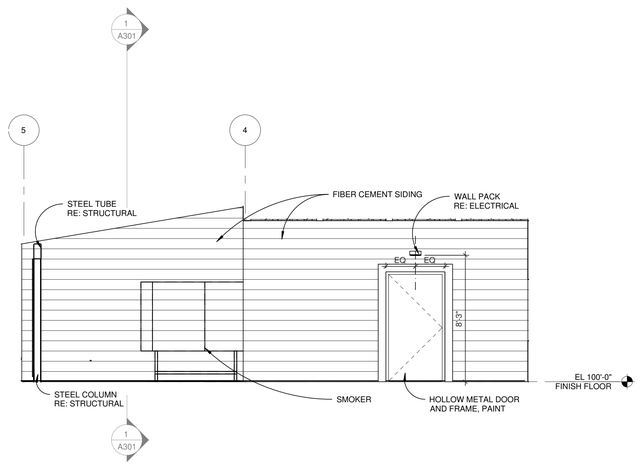
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

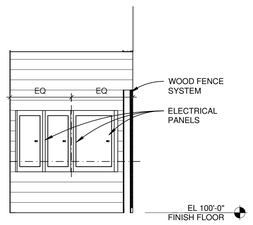
Checked By
NRD

Sheet No.
A201



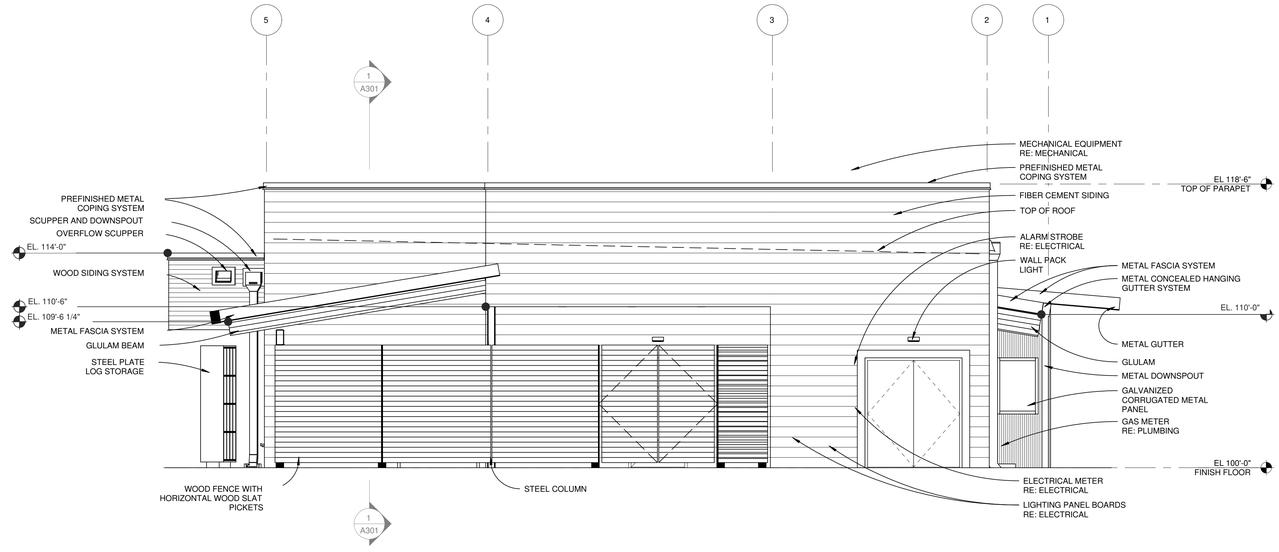
SMOKER ENCLOSURE - EAST ELEVATION

4 / A202 SCALE: 1/4" = 1'-0"



SMOKER ENCLOSURE - NORTH ELEVATION

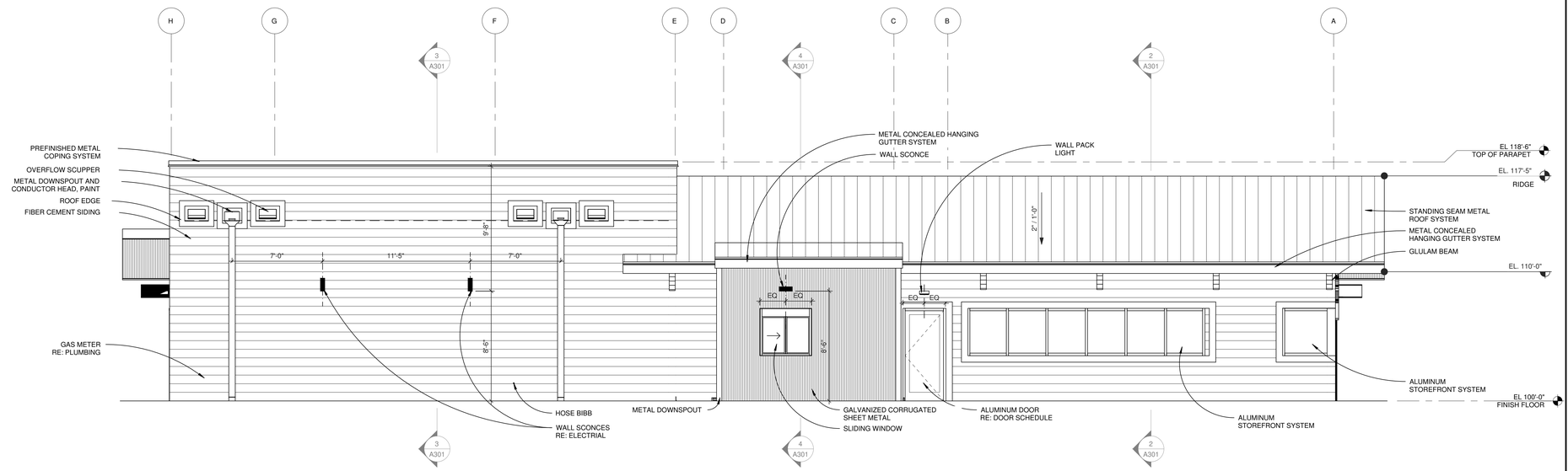
3 / A202 SCALE: 1/4" = 1'-0"



ELEVATION - EAST

1 / A202 SCALE: 1/4" = 1'-0"

NOTE: SIGNAGE TO BE UNDER SEPARATE PERMIT



ELEVATION - NORTH

1 / A202 SCALE: 1/4" = 1'-0"

NOTE: SIGNAGE TO BE UNDER SEPARATE PERMIT

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: EXTERIOR ELEVATIONS

Revisions

THRU ADDENDUM " "

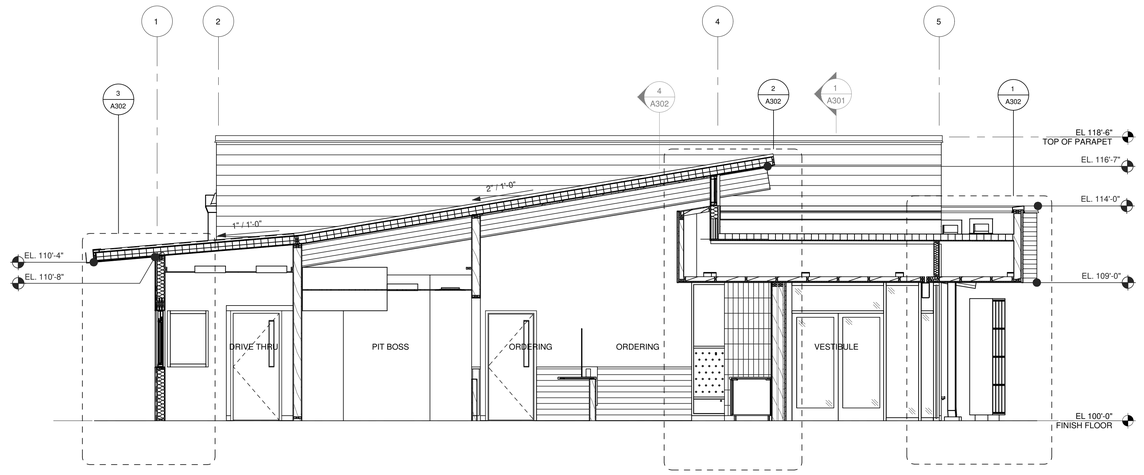
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

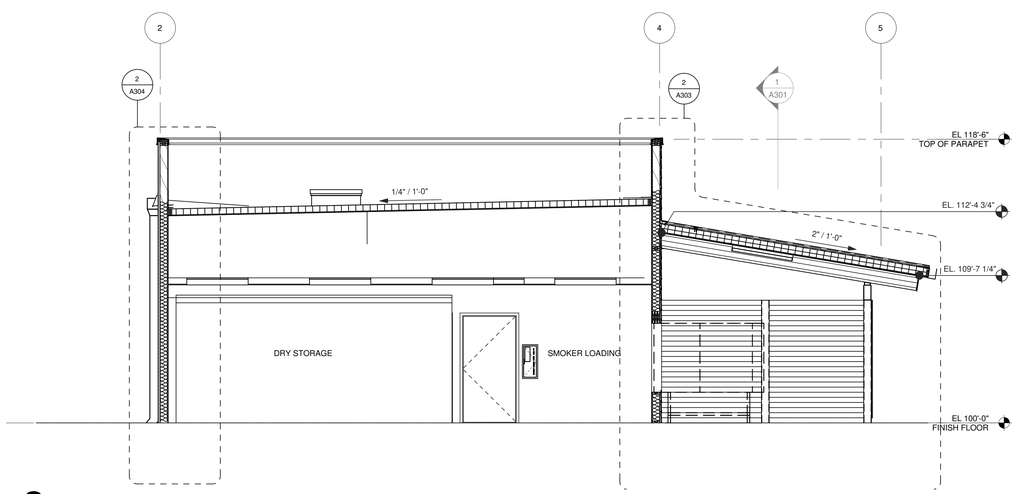
Sheet No.
A202

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A202.dwg
Plotted by: chudsen
Plotted date: Aug 12, 2022 - 2:13pm



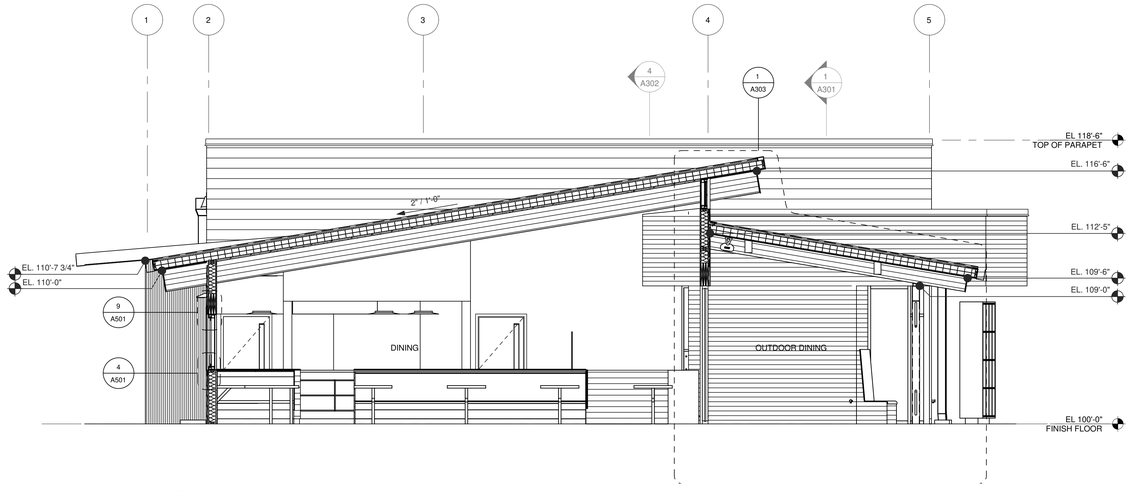
4 TRANSVERSAL SECTION

1/4" = 1'-0" 1 - A101



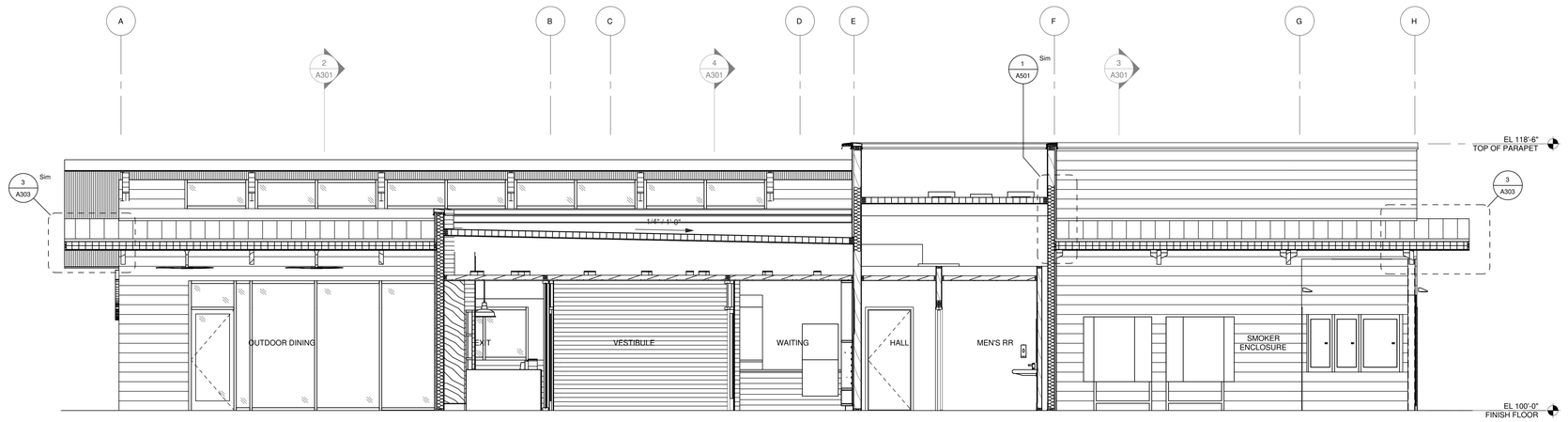
3 TRANSVERSAL SECTION

1/4" = 1'-0" 1 - A101



2 TRANSVERSAL SECTION

1/4" = 1'-0" 1 - A101



1 LONGITUDINAL SECTION

1/4" = 1'-0" 1 - A101

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A301.dwg
Plotted by: chudsen
Plotted date: Aug 12, 2022 - 2:35pm

LMHT Project No. 22160.00

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GLEN LEHMANN
99728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: BUILDING SECTIONS

Revisions

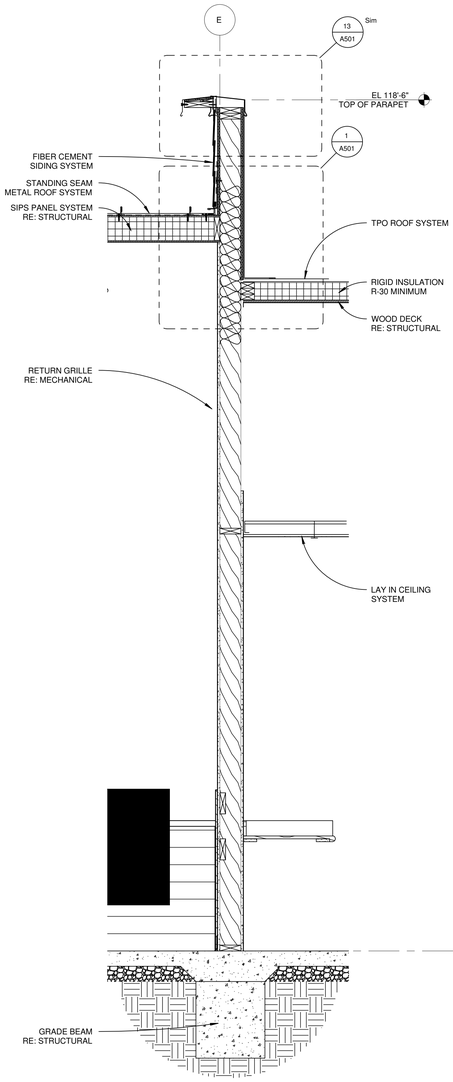
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A301

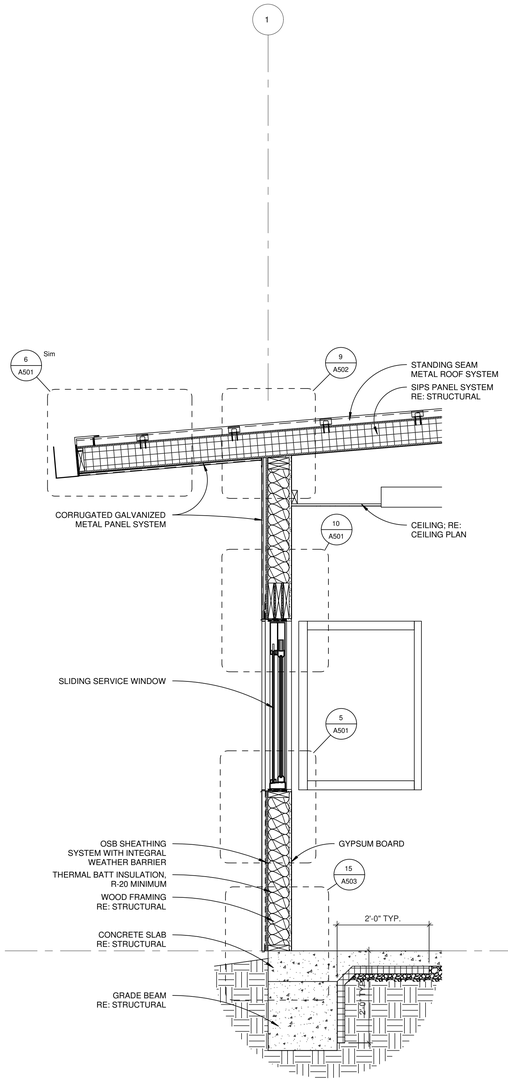


4

WALL SECTION AT ROOF TRANSITION

3/4" = 1'-0"

1 - A101



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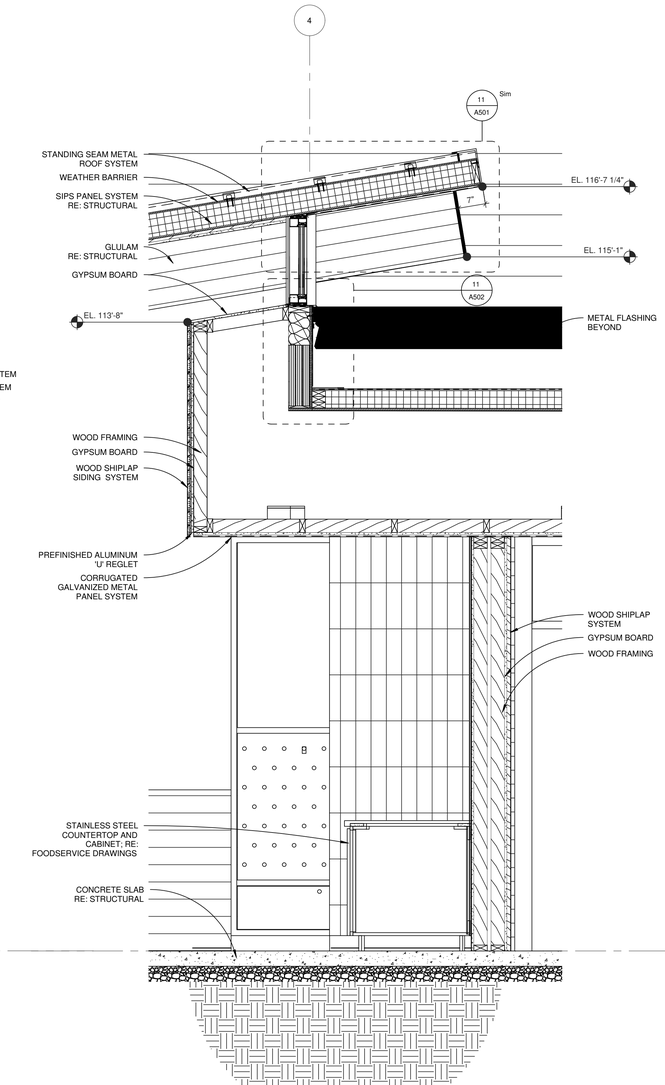
WALL SECTION AT DRIVE THRU

3/4" = 1'-0"

4 - A301



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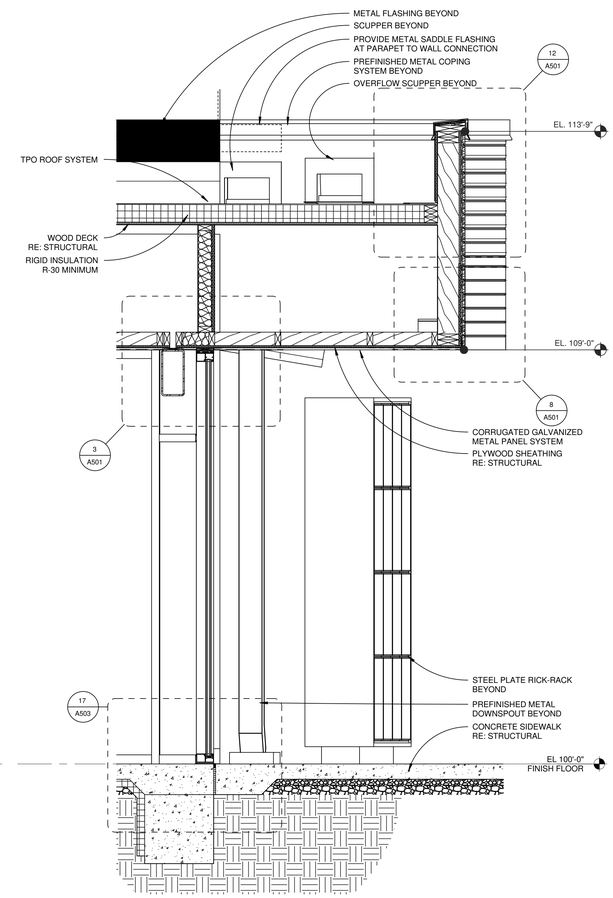
WALL SECTION AT CLERESTORY

3/4" = 1'-0"

4 - A301



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WALL SECTION AT ENTRY VESTIBULE

3/4" = 1'-0"

4 - A301

Drawing File: C:\Users\chudson\Appdata\Local\Temp\AcPublish_9472\A302.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:35pm

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A Division of LMHT Associates

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AR97728
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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: WALL SECTIONS

Rib Crib BBQ

Revisions

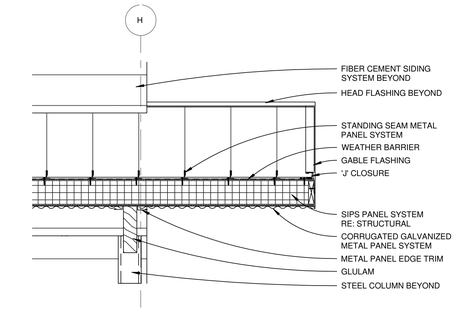
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

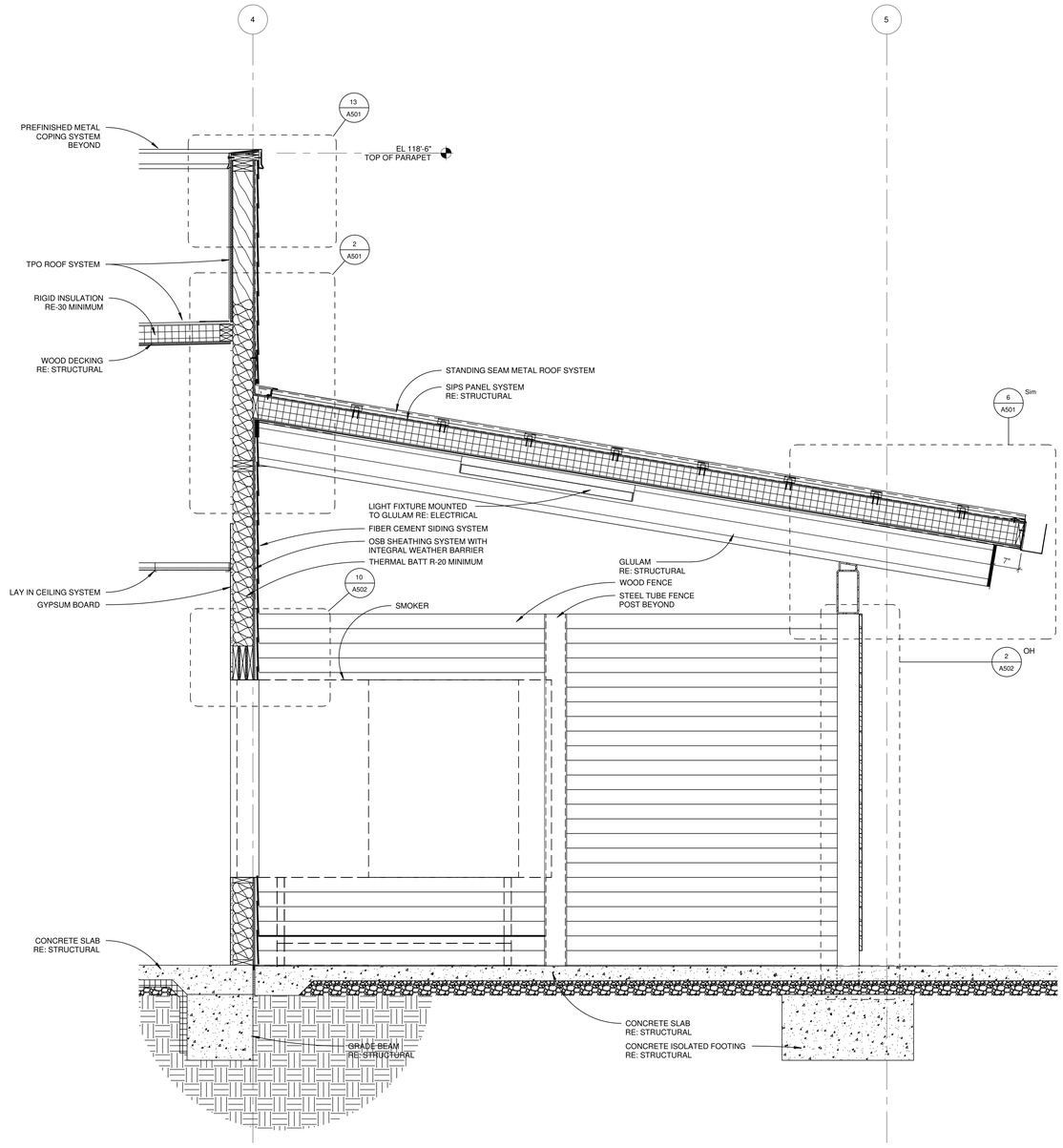
Checked By
NRD

Sheet No.
A302



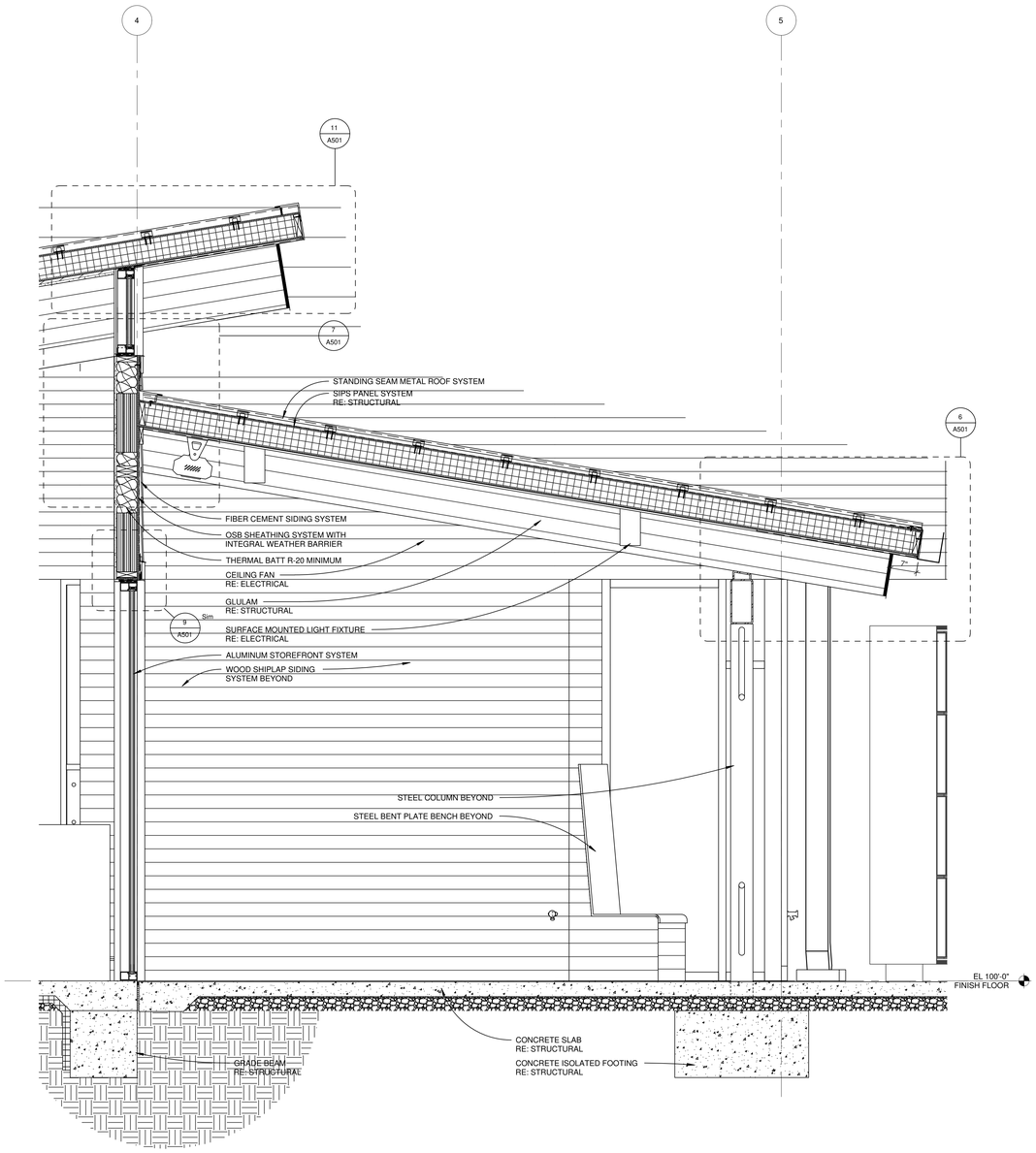
3 RAKE DETAIL

3/4" = 1'-0" 1 - A301



2 SECTION AT SMOKER ENCLOSURE

3/4" = 1'-0" 3 - A301



1 SECTION AT OUTDOOR DINING

3/4" = 1'-0" 2 - A301

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: WALL SECTIONS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A303

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\A303.dwg
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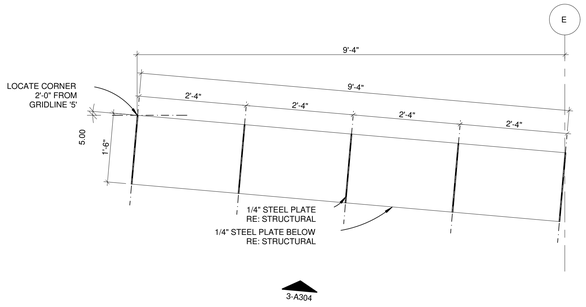
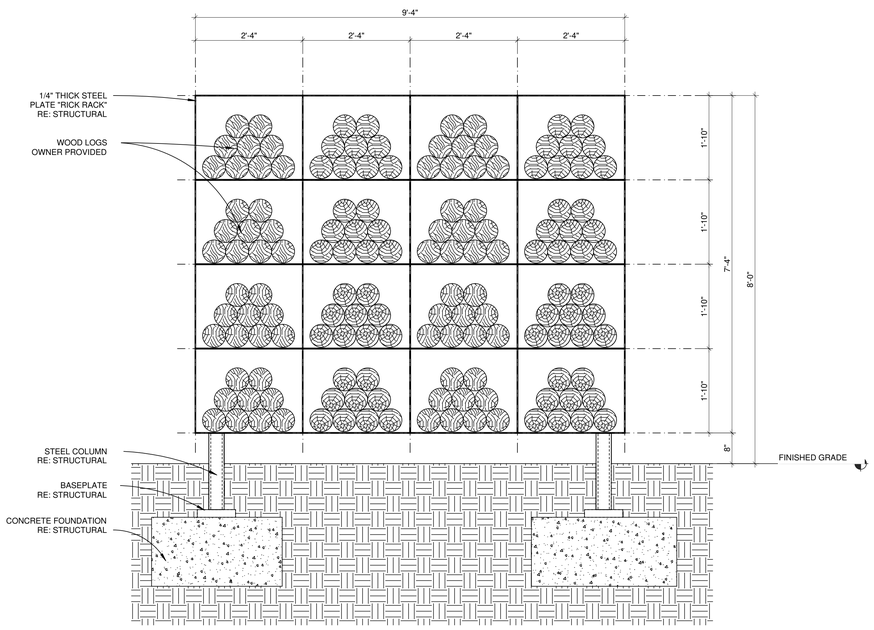
Plotted Date: Aug 12, 2022 - 2:35pm



4 RICK RACK - PLAN

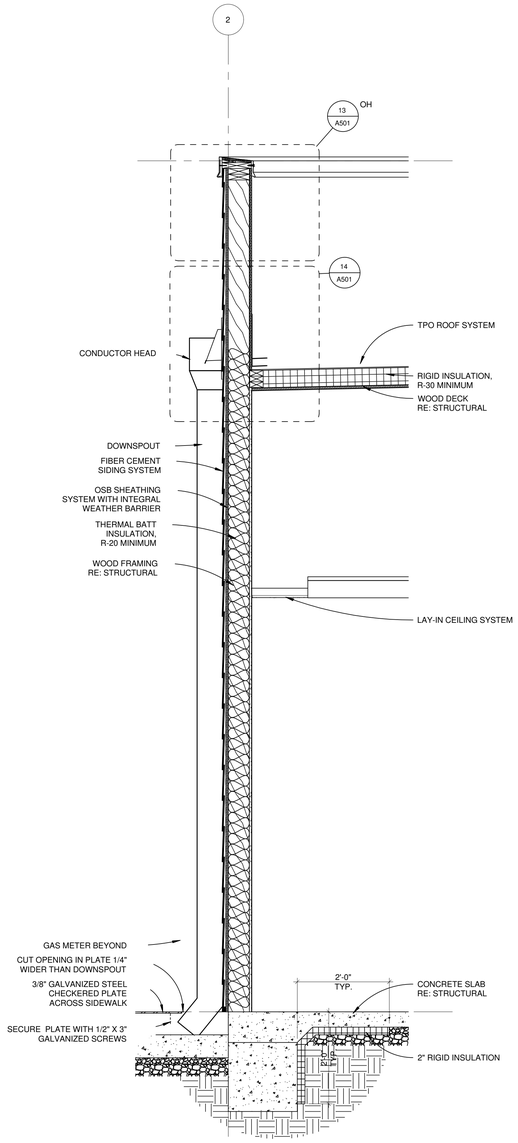
3/4" = 1'-0" 1 - A101

PROJECT NORTH



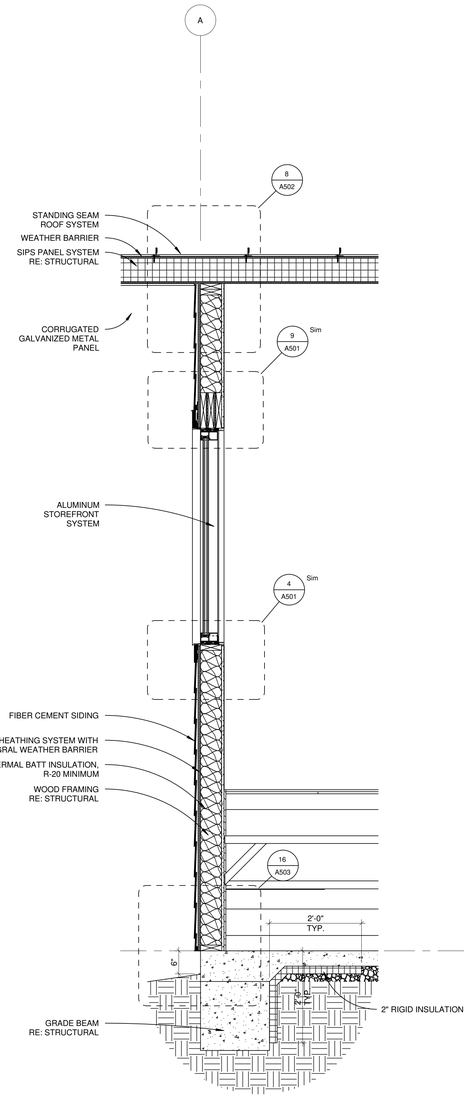
3 RICK RACK ELEVATION

3/4" = 1'-0" 1 - A100



2 DRY STORAGE SECTION

3/4" = 1'-0" 3 - A301



1 WALL SECTION AT GABLE

3/4" = 1'-0" 1 - A101

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Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:35pm

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: WALL SECTIONS

Revisions

THRU ADDENDUM " "

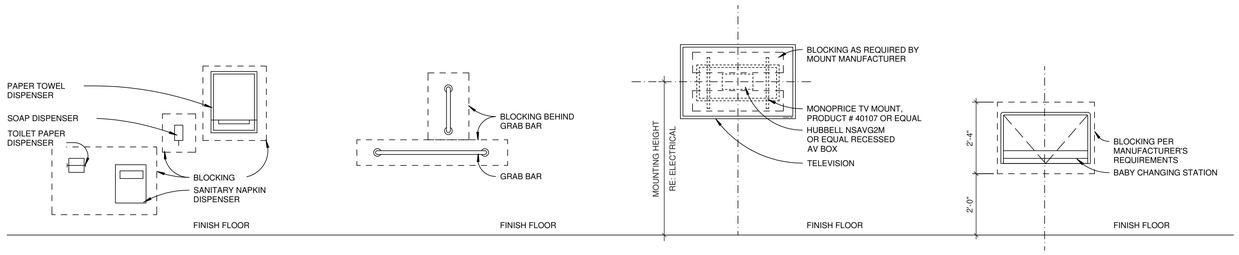
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

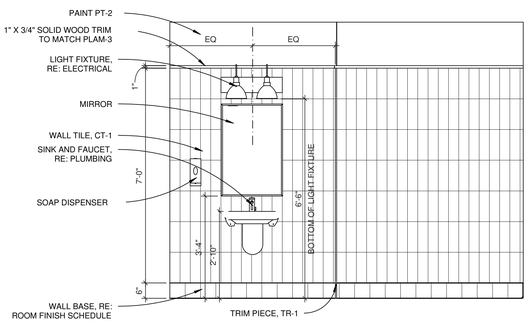
Sheet No.
A304

EQUIPMENT SCHEDULE			
KEYNOTE	EQUIPMENT DESCRIPTION	PROVIDED BY	INSTALLED BY
01	GRAB BAR - HORIZONTAL (1 1/4" x 36)	CONTRACTOR	CONTRACTOR
02	GRAB BAR - HORIZONTAL (1 1/4" x 42")	CONTRACTOR	CONTRACTOR
03	GRAB BAR - VERTICAL (1 1/4" x 18")	CONTRACTOR	CONTRACTOR
04	WALL MOUNT LIQUID SOAP DISPENSER	CONTRACTOR	CONTRACTOR
05	TOILET TISSUE DISPENSER - SURFACE MOUNTED	CONTRACTOR	CONTRACTOR
06	WALL MOUNT CHANNEL FRAME MIRROR	CONTRACTOR	CONTRACTOR
08	TELEVISION, 42"		



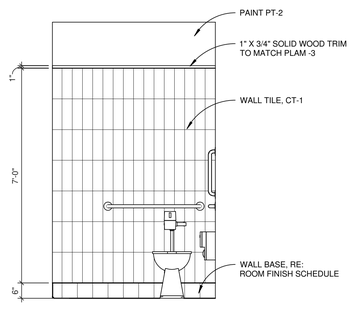
5 BLOCKING DIAGRAM

N.T.S.



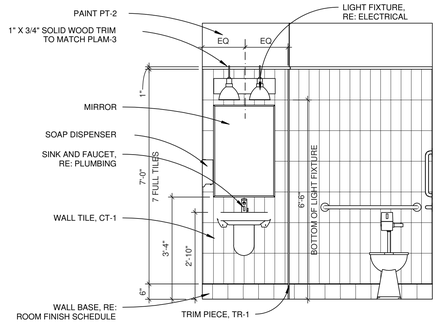
4 WOMEN'S RESTROOM ELEVATION

1/2" = 1'-0" 1 - A401



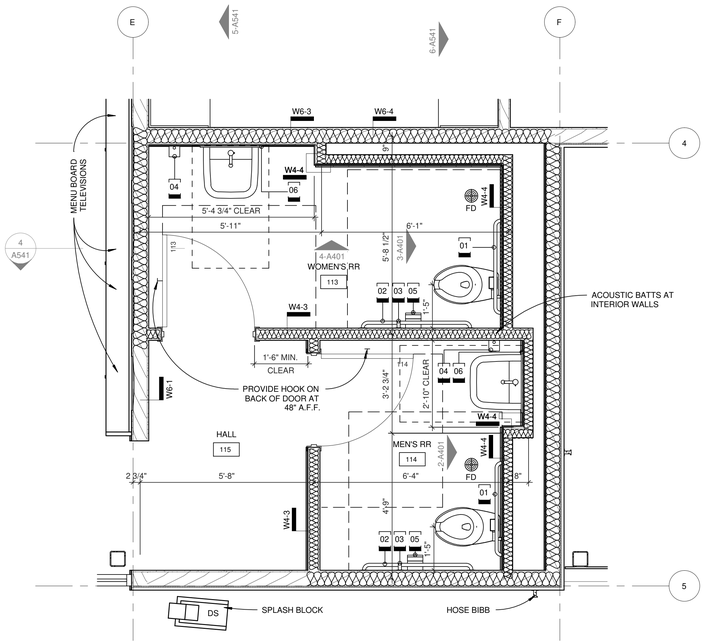
3 WOMEN'S RESTROOM ELEVATION

1/2" = 1'-0" 1 - A401



2 MEN'S RESTROOM ELEVATION

1/2" = 1'-0" 1 - A401



1 ENLARGED RESTROOM PLANS

1/2" = 1'-0" 1 - A101

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ENLARGED RESTROOM PLANS and ELEVATIONS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A401

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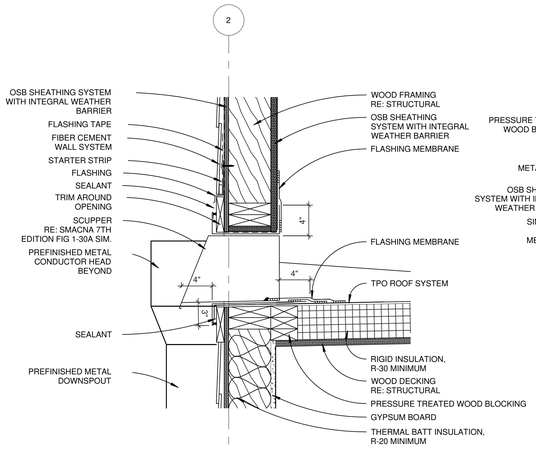
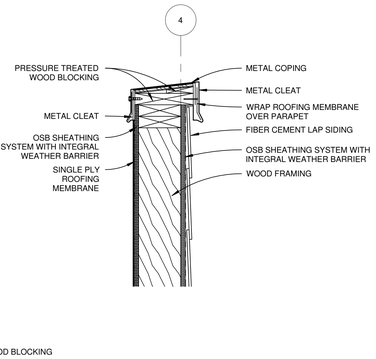
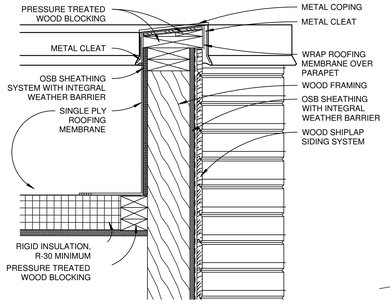
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:25pm



14 ROOF DETAIL
1 1/2" = 1'-0" 2 - A304



13 PARAPET DETAIL
1 1/2" = 1'-0" 4 - A302



12 ROOF DETAIL
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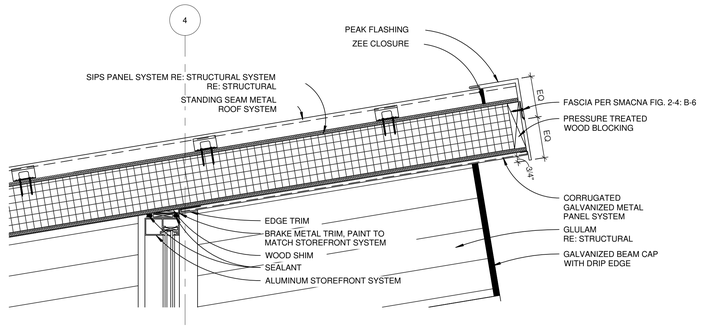

11 ROOF DETAIL
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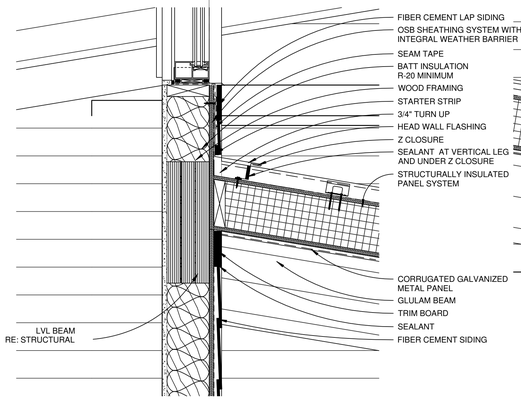

7 ROOF DETAIL
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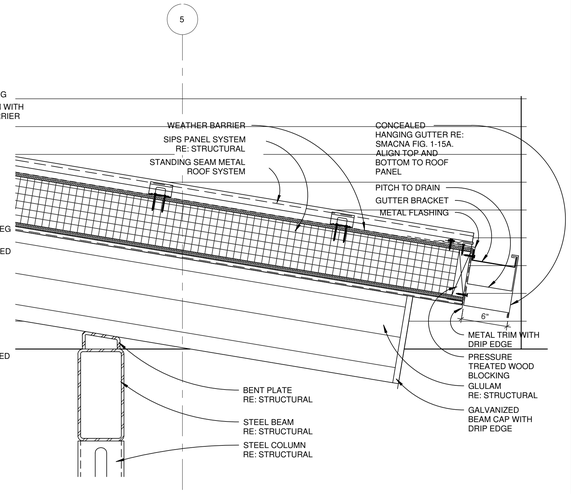

6 ROOF DETAIL
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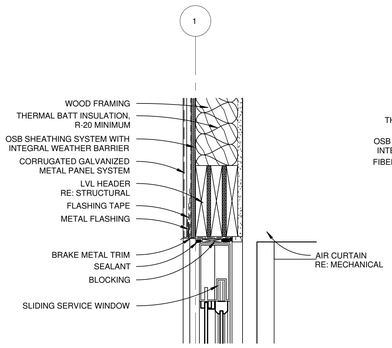
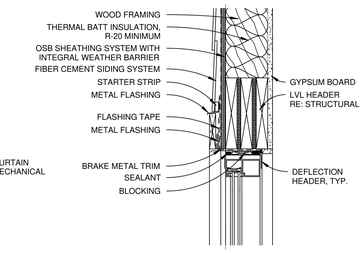
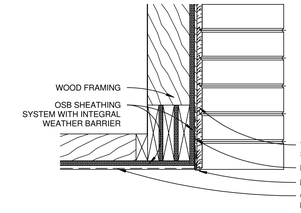


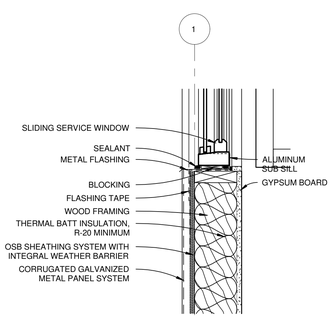
10 DT WINDOW DETAIL
1 1/2" = 1'-0" 3 - A302



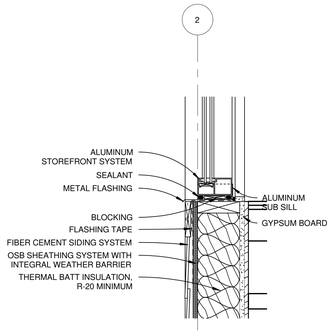
9 WINDOW DETAIL
1 1/2" = 1'-0" 2 - A301



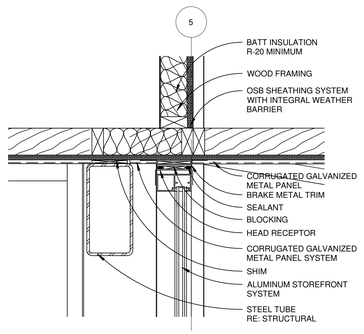
8 WALL SECTION 2 - Callout 3
1 1/2" = 1'-0" 1 - A302



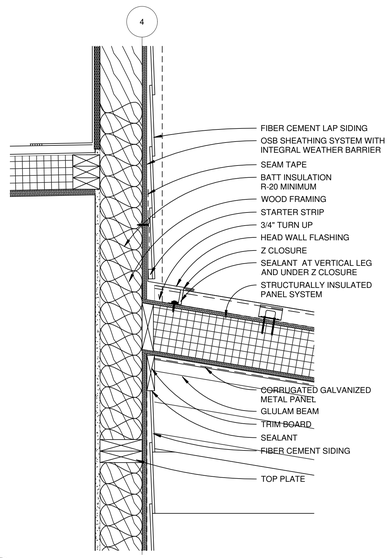
5 DT WINDOW DETAIL
1 1/2" = 1'-0" 3 - A302



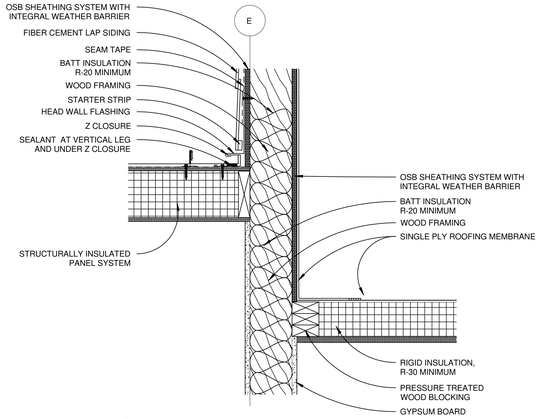
4 WINDOW DETAIL
1 1/2" = 1'-0" 2 - A301



3 BEAM DETAIL
1 1/2" = 1'-0" 1 - A302



2 ROOF DETAIL
1 1/2" = 1'-0" 2 - A303



1 ROOF DETAIL
1 1/2" = 1'-0" 1 - A301

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RIB CRIB CEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: EXTERIOR DETAILS

Revisions

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PROJECT DATE
08/12/2022

Drawn By
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Checked By
NRD

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A501

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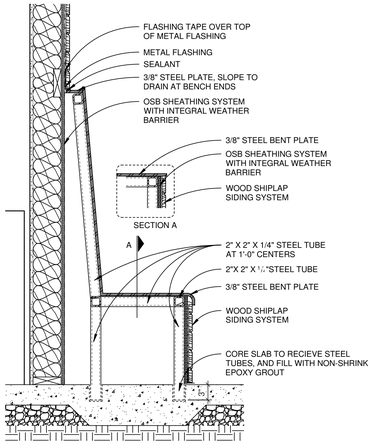
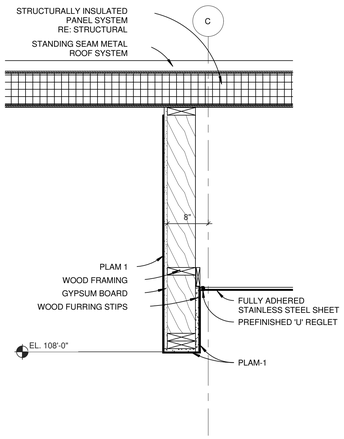
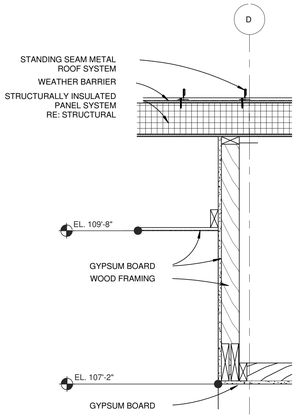
Plotted Date: Aug 12, 2022 - 3:35pm



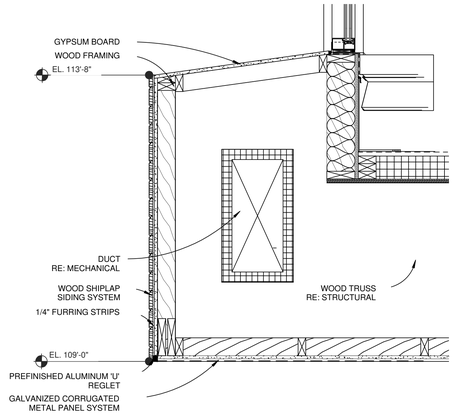
15 BENCH SECTION
1" = 1'-0" 1 - A101



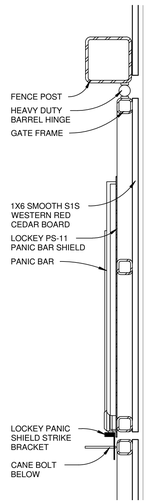
14 PIT BOSS CEILING
1" = 1'-0" 7 - A105



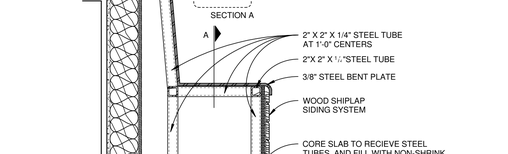
13 CEILING HEIGHT CHANGE
1" = 1'-0" 3 - A106



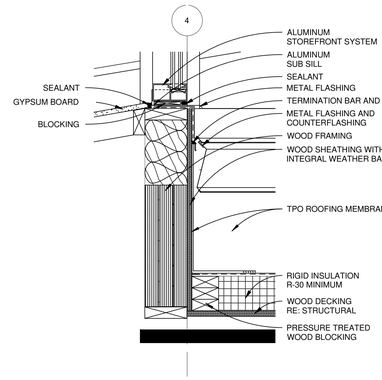
12 ENTRY HEADER
1" = 1'-0" 1 - A121



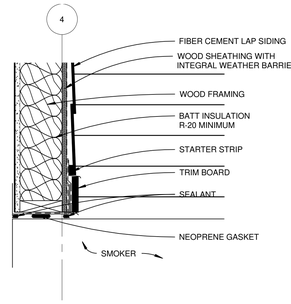
7 PANIC BAR AT GATE
1 1/2" = 1'-0" 1 - A101



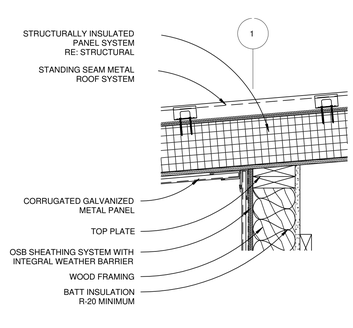
6 DUMPSTER ENCLOSURE REAR ELEVATION
1/4" = 1'-0" 3 - A502



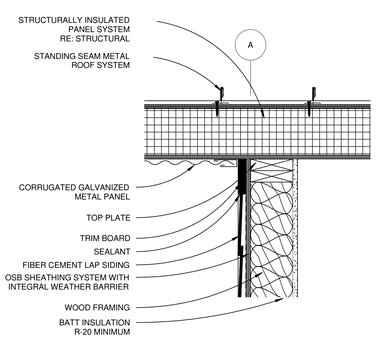
11 TPO ROOF AT CLERESTORY
1 1/2" = 1'-0" 2 - A302



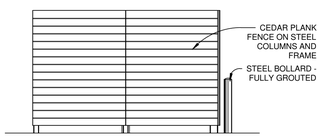
10 WALL HEAD AT SMOKER
1 1/2" = 1'-0" 2 - A303



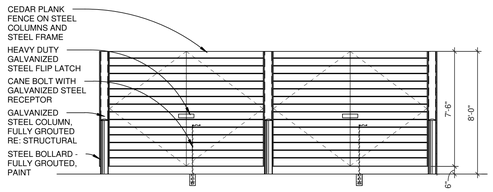
9 ROOF DETAIL
1 1/2" = 1'-0" 3 - A302



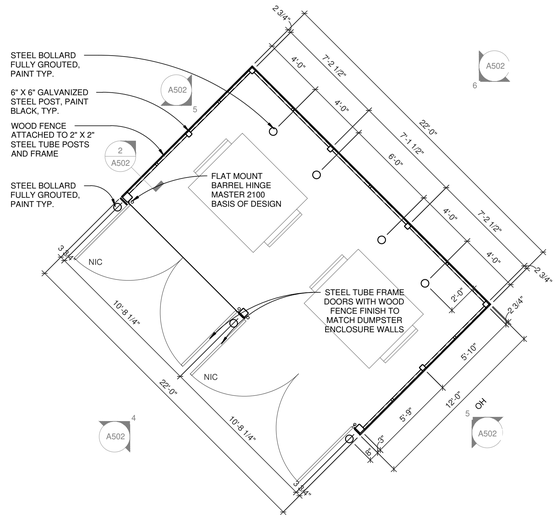
8 ROOF DETAIL
1 1/2" = 1'-0" 1 - A304



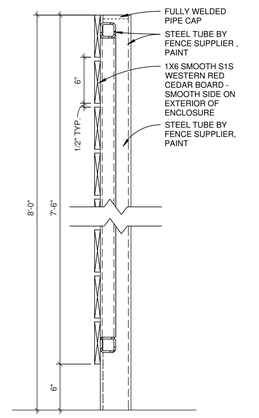
5 DUMPSTER ENCLOSURE SIDE ELEVATION
1/4" = 1'-0" 3 - A502



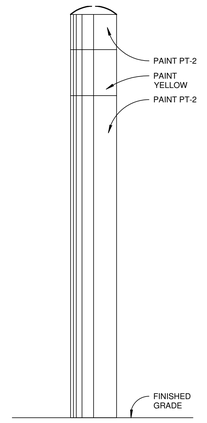
4 DUMPSTER ENCLOSURE FRONT ELEVATION
1/4" = 1'-0" 3 - A502



3 DUMPSTER ENCLOSURE PLAN
1/4" = 1'-0" ?



2 ENCLOSURE WALL SECTION
1 1/2" = 1'-0" 1 - A101



1 BOLLARD ELEVATION
1 1/2" = 1'-0" ?

LMHT Project No. 22160.00

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STATE OF FLORIDA
GLEN LEHMANN
AR97728
REGISTERED ARCHITECT
8/12/22

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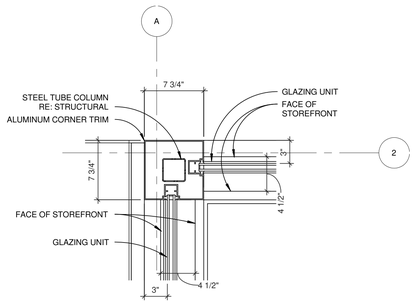
RIB CRIB GEN 6 PROTOTYPE
Location: GATEWAY CROSSING CENTURION WAY LAKE CITY, FLORIDA 32055
Drawing: EXTERIOR DETAILS

Revisions
THRU ADDENDUM " "

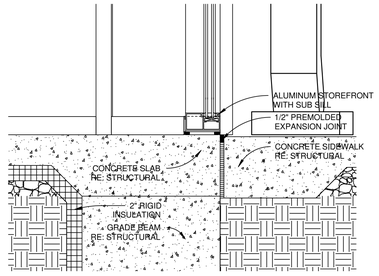
PROJECT DATE
08/12/2022
Drawn By
CDK
Checked By
NRD
Sheet No.
A502

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\A502.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:35pm



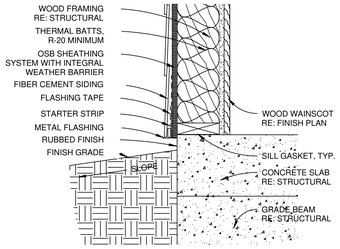
18 STOREFRONT OUTSIDE CORNER

1 1/2" = 1'-0" 1 - A101



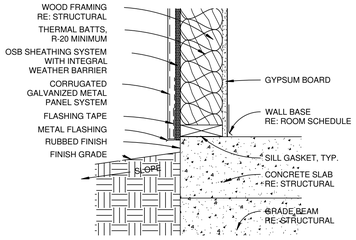
17 WALL SILL AT PATIO

1 1/2" = 1'-0" 1 - A302



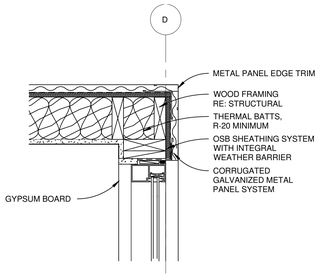
16 WALL SILL AT FIBER CEMENT SIDING

1 1/2" = 1'-0" 1 - A304



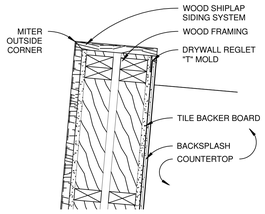
15 WALL SILL AT METAL PANEL

1 1/2" = 1'-0" 3 - A302



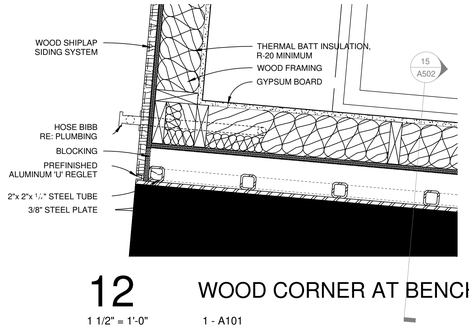
14 DRIVE THRU OUTSIDE CORNER

1 1/2" = 1'-0" 1 - A101



13 WOOD SLAT END WALL

1 1/2" = 1'-0" 1 - A101



12 WOOD CORNER AT BENCH

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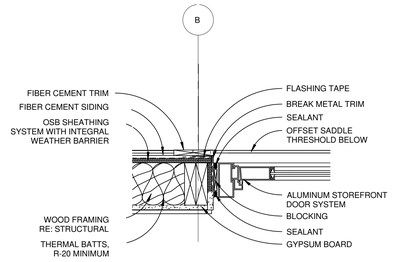
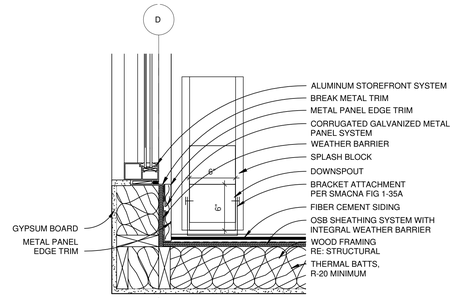


11 STOREFRONT DOOR JAMB

1 1/2" = 1'-0" 1 - A101



10 DRIVE THRU INSIDE CORNER

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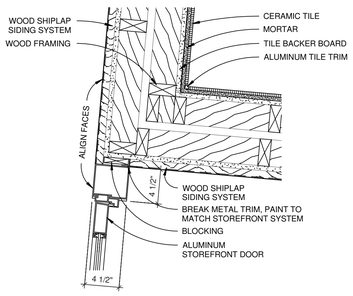
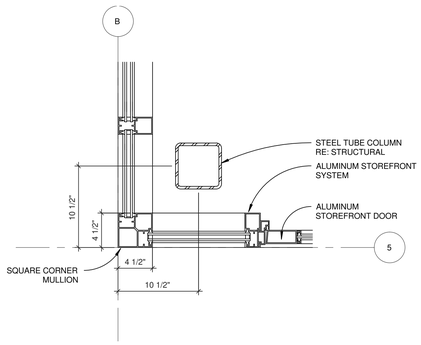


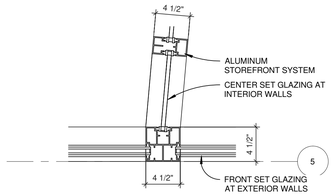
9 WOOD SLAT CORNER

1 1/2" = 1'-0" 1 - A101



8 STOREFRONT CORNER

1 1/2" = 1'-0" 1 - A101



7 STOREFRONT INTERSECTION

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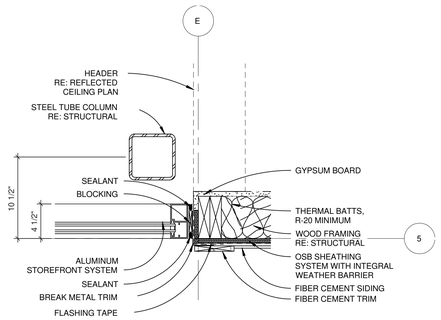

6 STOREFRONT JAMB

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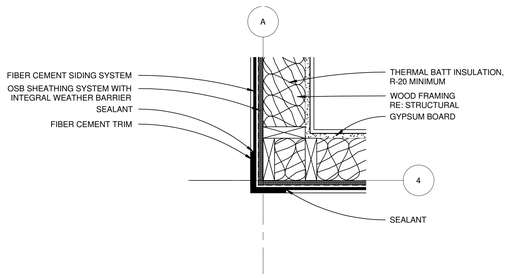

5 FIBER CEMENT OUTSIDE CORNER

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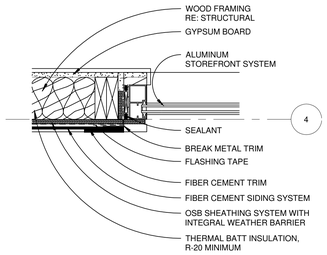

4 WINDOW JAMB AT FIBER CEMENT SIDING

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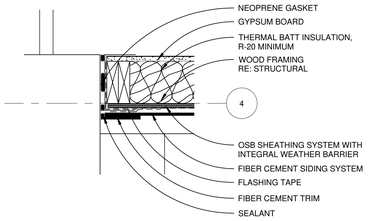

3 JAMB AT SMOKER

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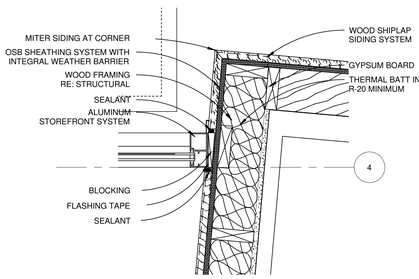

2 ANGLED JAMB

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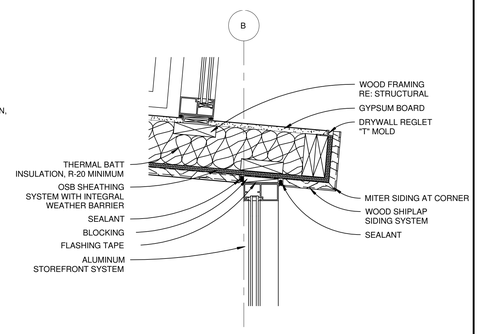

1 ANGLED WALL END

1 1/2" = 1'-0" 1 - A101

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A Division of LMHT Associates

LMHT Project No. 22160.00

STATE OF FLORIDA
GLEN LEHMANN
AR97728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: EXTERIOR DETAILS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A503

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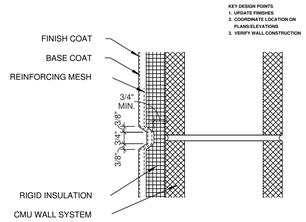
Plotted by: chudson
Plotted date: Aug 12, 2022 - 2:34pm



E2 DETAIL

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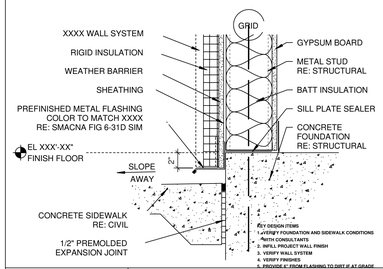

E4 DETAIL

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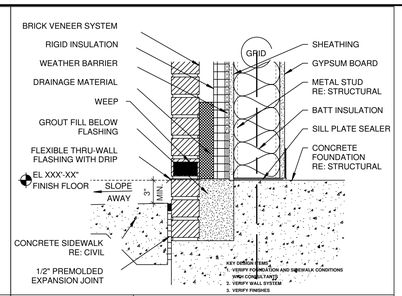

E5 BASE DETAIL

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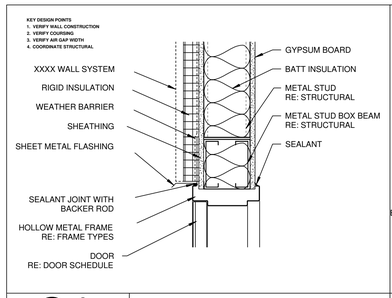
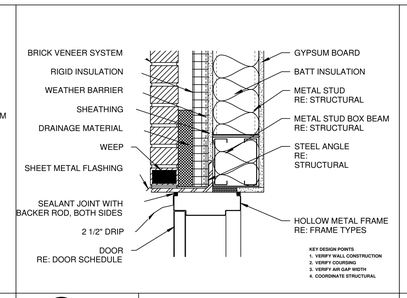


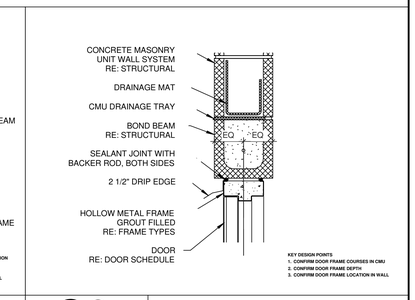
C4 HEAD DETAIL

1 1/2" = 1'-0"



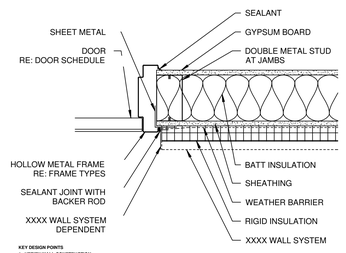
C5 HEAD DETAIL

1 1/2" = 1'-0"



C6 HEAD DETAIL

1 1/2" = 1'-0"



B4 JAMB DETAIL

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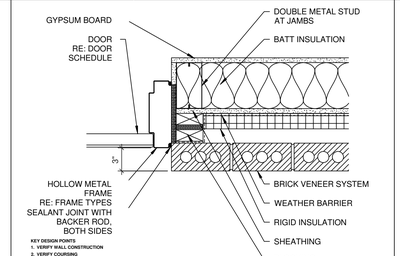

B5 JAMB DETAIL

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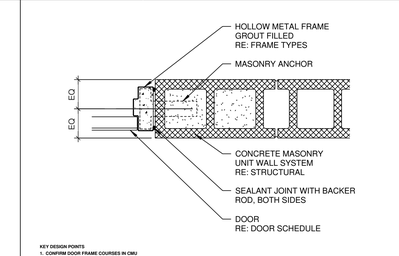

B6 JAMB DETAIL

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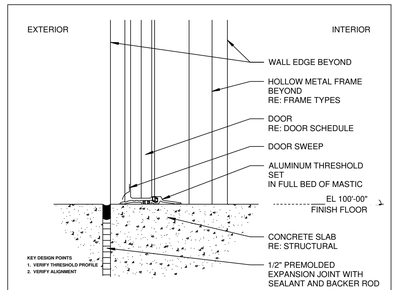

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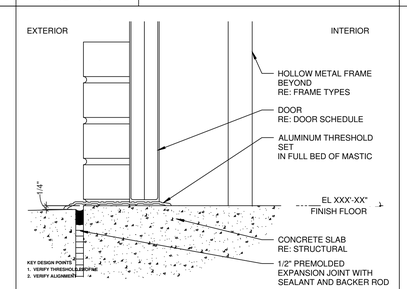

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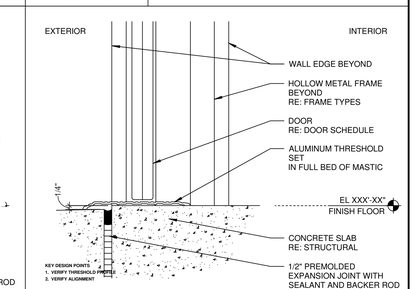

A6 DETAIL

3" = 1'-0"

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99728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB CEN 6 PROTOTYPE

Location: GATEWAY CROSSING CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: DOOR DETAILS - EXTERIOR

Revisions

THRU ADDENDUM " "

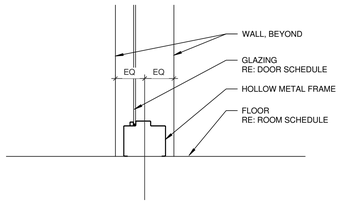
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

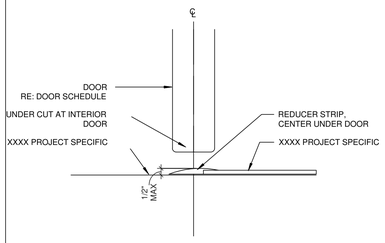
Sheet No.
A521

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A521.dwg
Plotted by: chusten
Plotted Date: Aug 12, 2022 - 2:35pm



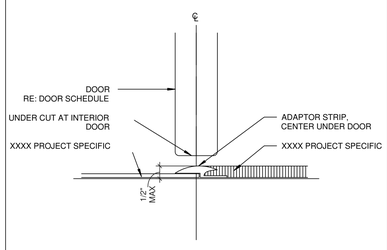
E2 DETAIL

1 1/2" = 1'-0"



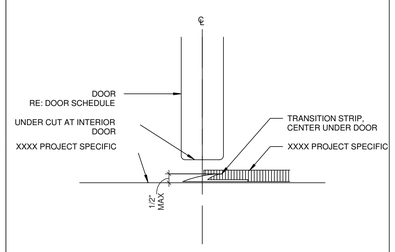
C2 TRANSITION DETAIL

6" = 1'-0"



B2 TRANSITION DETAIL

6" = 1'-0"



B3 TRANSITION DETAIL

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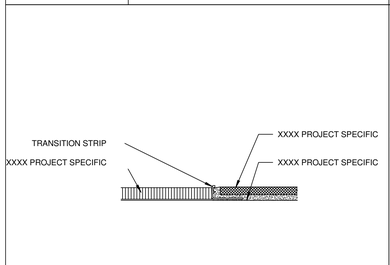

A2 TRANSITION DETAIL

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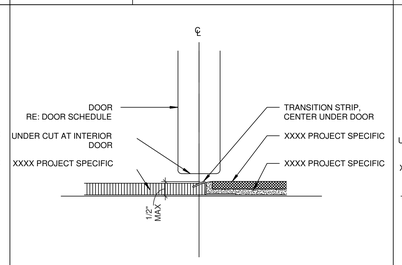
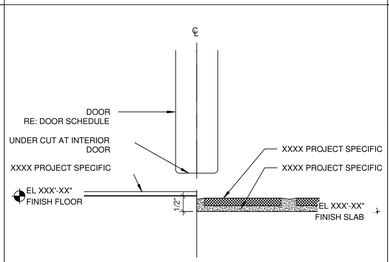


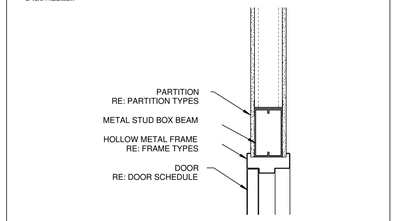
A3 TRANSITION DETAIL

6" = 1'-0"



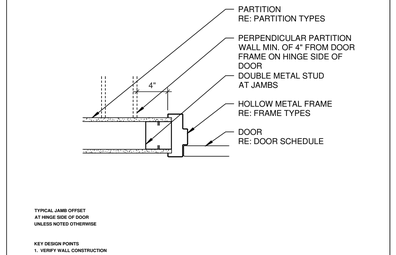
A4 TRANSITION DETAIL

6" = 1'-0"



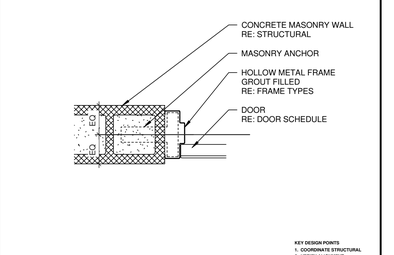
C5 HEAD DETAIL

1 1/2" = 1'-0"



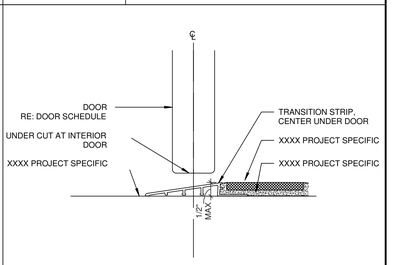
B5 JAMB DETAIL

1 1/2" = 1'-0"



B6 JAMB DETAIL

1 1/2" = 1'-0"



A5 TRANSITION DETAIL

6" = 1'-0"

A6 TRANSITION DETAIL

6" = 1'-0"

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LMHT Project No. 22160.00

STATE OF FLORIDA
GLEN LEHMANN
AR97728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: DOOR DETAILS - INTERIOR

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

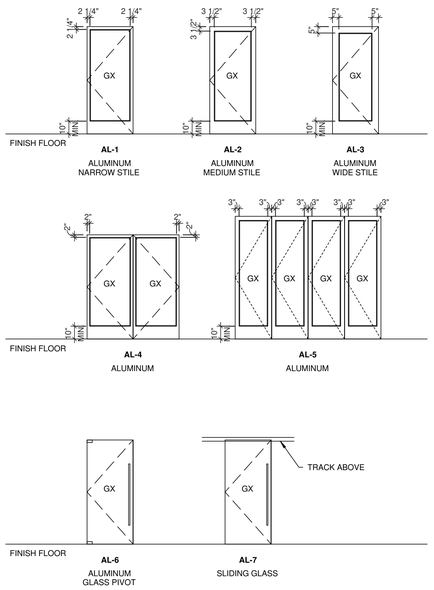
Drawn By
CDK

Checked By
NRD

Sheet No.
A522

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A522.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:36pm

DOOR TYPE ELEVATIONS
ALUMINUM DOORS



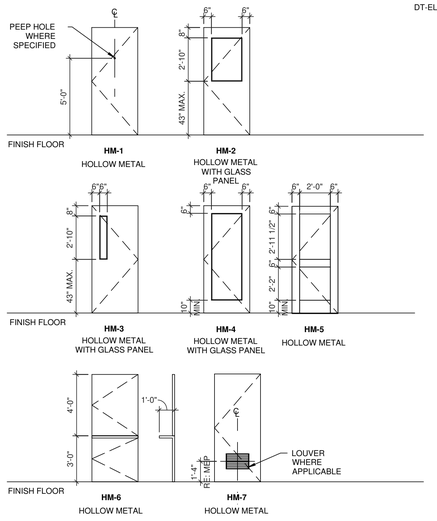
KEY DESIGN ITEMS
1. COORDINATE HARDWARE WITH SPEC
2. COORDINATE GLAZING TYPES WITH SPECS AND DETAILS
3. COORDINATE FINISHES WITH SCHEDULE

C1 DOOR ELEVATION - ALUMINUM

1/4" = 1'-0"

DOOR TYPE ELEVATIONS
HOLLOW METAL DOORS

DT-ELEV-2



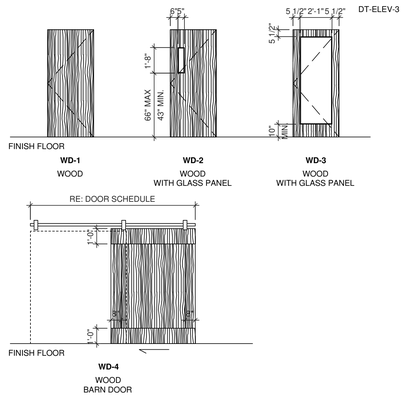
KEY DESIGN ITEMS
1. COORDINATE HARDWARE WITH SPEC
2. COORDINATE GLAZING TYPES WITH SPECS AND DETAILS
3. COORDINATE FINISHES WITH SCHEDULE

C2 DOOR ELEVATIONS - HOLLOW METAL

1/4" = 1'-0"

DOOR TYPE ELEVATIONS
WOOD DOORS

DT-ELEV-3



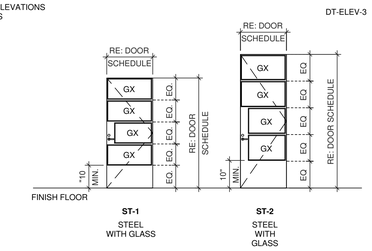
KEY DESIGN ITEMS
1. COORDINATE HARDWARE WITH SPEC
2. COORDINATE GLAZING TYPES WITH SPECS AND DETAILS
3. COORDINATE FINISHES WITH SCHEDULE

C4 DOOR ELEVATIONS - WOOD

1/4" = 1'-0"

DOOR TYPE ELEVATIONS
STEEL DOORS

DT-ELEV-3

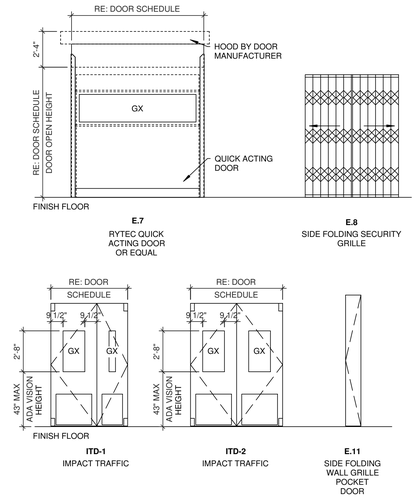


C5 DOOR ELEVATIONS - STEEL

1/4" = 1'-0"

DOOR TYPE ELEVATIONS
SPECIALTY DOORS

DT-ELEV-5.C



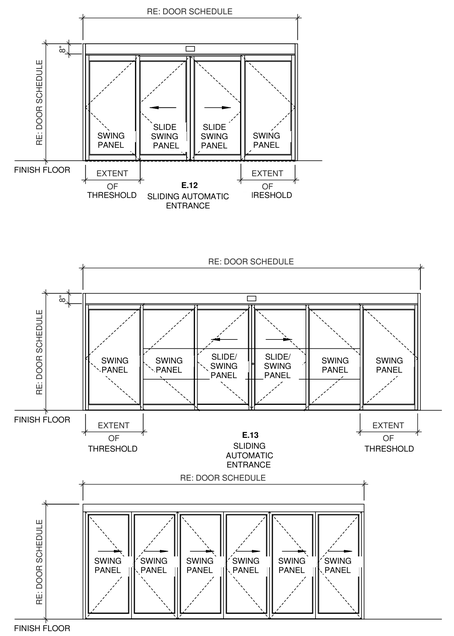
KEY DESIGN ITEMS
1. COORDINATE HARDWARE WITH SPEC
2. COORDINATE GLAZING TYPES WITH SPECS AND DETAILS
3. COORDINATE FINISHES WITH SCHEDULE

A4 DOOR ELEVATIONS - PLASTIC

1/4" = 1'-0"

DOOR TYPE ELEVATIONS
SPECIALTY DOORS

DT-ELEV-5.D



KEY DESIGN ITEMS
1. COORDINATE HARDWARE WITH SPEC
2. COORDINATE GLAZING TYPES WITH SPECS AND DETAILS
3. COORDINATE FINISHES WITH SCHEDULE

A5 DOOR ELEVATIONS - SLIDER

1/4" = 1'-0"

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REGISTERED ARCHITECT
8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: DOOR TYPES

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

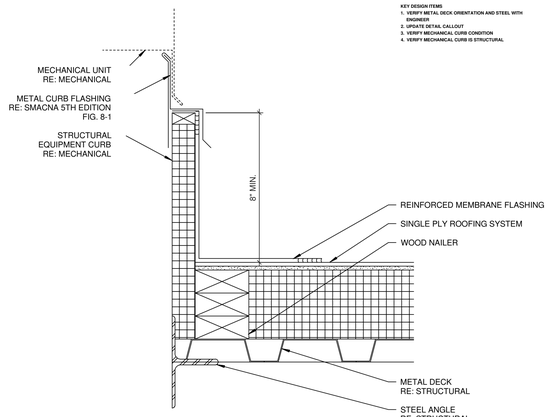
Drawn By
CDK

Checked By
NRD

Sheet No.
A524

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A524.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:36pm

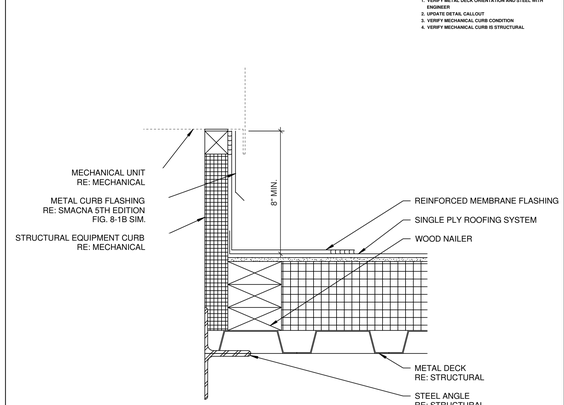
KEY DESIGN ITEMS
1. VERIFY METAL DECK ORIENTATION AND STEEL WITH ENGINEER
2. UPDATE DETAIL CALLOUT
3. VERIFY MECHANICAL CURB CONDITION
4. VERIFY MECHANICAL CURB IS STRUCTURAL



C4 EQUIPMENT CURB SECTION DETAIL

3" = 1'-0"

KEY DESIGN ITEMS
1. VERIFY METAL DECK ORIENTATION AND STEEL WITH ENGINEER
2. UPDATE DETAIL CALLOUT
3. VERIFY MECHANICAL CURB CONDITION
4. VERIFY MECHANICAL CURB IS STRUCTURAL

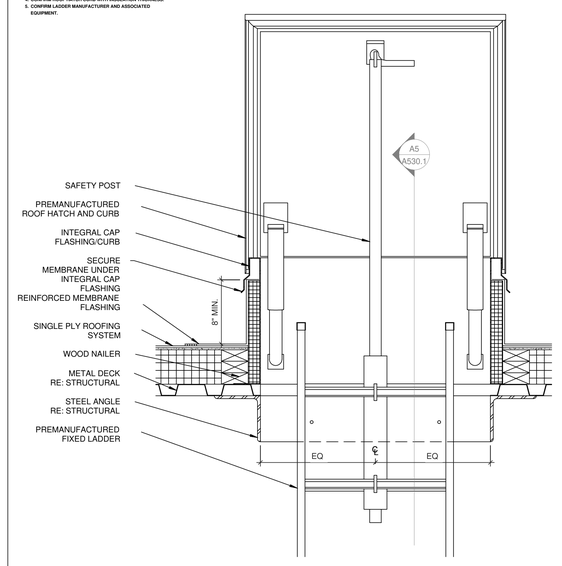


C5 EQUIPMENT CURB SECTION DETAIL

3" = 1'-0"

KEY DESIGN ITEMS
1. VERIFY METAL DECK ORIENTATION AND STEEL WITH ENGINEER.
2. UPDATE ELEVATIONS.
3. CONFIRM ROOF HATCH AND VERIFY PLACEMENT IN RELATION TO ROOF SLOPE.
4. CONFIRM ROOF HATCH CURB WITH INSULATION THICKNESS.
5. CONFIRM LADDER MANUFACTURER AND ASSOCIATED EQUIPMENT.

LADDER BUILT TO MEET IMC 306.5 STANDARDS

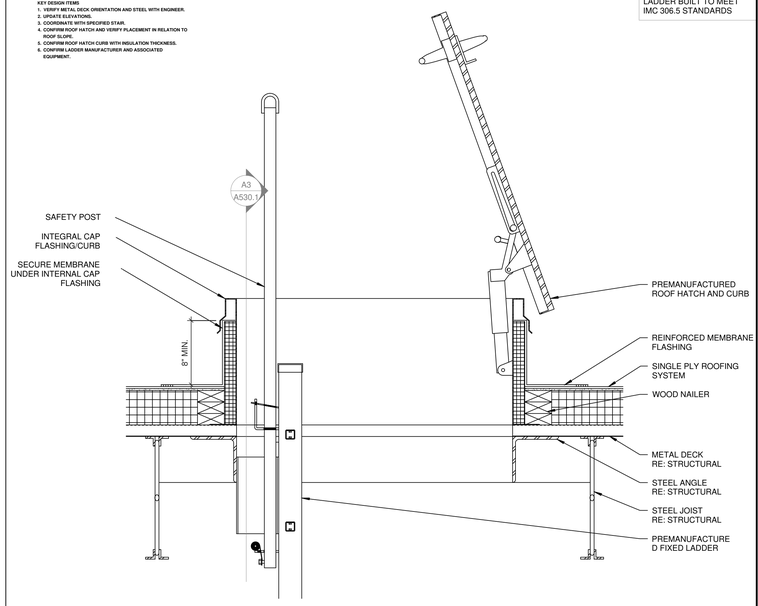


A3 ROOF HATCH SECTION DETAIL

1 1/2" = 1'-0"

KEY DESIGN ITEMS
1. VERIFY METAL DECK ORIENTATION AND STEEL WITH ENGINEER.
2. UPDATE ELEVATIONS.
3. COORDINATE WITH SPECIFIED STAIR.
4. CONFIRM ROOF HATCH AND VERIFY PLACEMENT IN RELATION TO ROOF SLOPE.
5. CONFIRM ROOF HATCH CURB WITH INSULATION THICKNESS.
6. CONFIRM LADDER MANUFACTURER AND ASSOCIATED EQUIPMENT.

LADDER BUILT TO MEET IMC 306.5 STANDARDS



A5 ROOF HATCH SECTION DETAIL

1 1/2" = 1'-0"

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GLEN LEHMANN
99728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ROOF PENETRATION DETAILS
SINGLE PLY ROOF

Revisions

THRU ADDENDUM " "

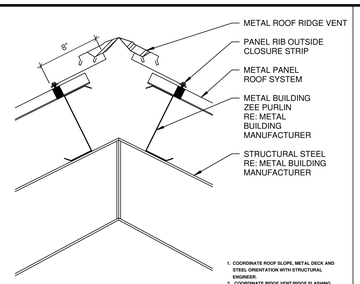
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A530

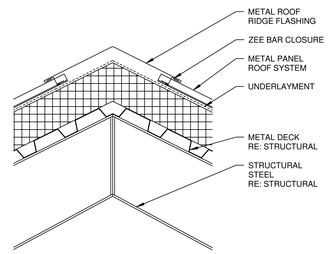
Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A530.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:45pm



1. COORDINATE ROOF SLOPE, METAL DECK AND STEEL ORIENTATION WITH STRUCTURAL ENGINEER.
2. COORDINATE RIDGE VENT-RIDGE FLASHING WITH METAL ROOFING PANEL SYSTEM.

E4 RIDGE DETAIL

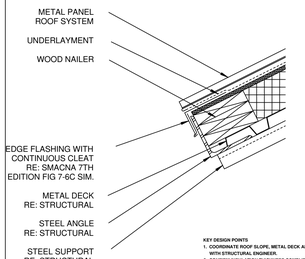
1 1/2" = 1'-0"



1. COORDINATE ROOF SLOPE, METAL DECK AND STEEL ORIENTATION WITH STRUCTURAL ENGINEER.
2. COORDINATE RIDGE VENT-RIDGE FLASHING WITH METAL ROOFING PANEL SYSTEM.
3. VERIFY WITH ROOF SYSTEM WHETHER UNDERLAYMENT OR COVER BOARD.

D5 RIDGE DETAIL

1 1/2" = 1'-0"

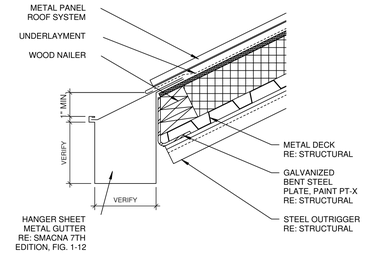


KEY DESIGN POINTS
1. COORDINATE ROOF SLOPE, METAL DECK AND STEEL ORIENTATION WITH STRUCTURAL ENGINEER.
2. CONFIRM INSULATION THICKNESS COMPLIES WITH ADOPTED ENERGY CODE. COORDINATE WITH MECHANICAL ENGINEER. NOTE: R-25 IS INDICATED IN DETAIL.
3. CONFIRM ROOF EDGE HEIGHT AND COORDINATE WITH ELEVATIONS.
4. CONFIRM ROOF EDGE FINISH AND COORDINATE WITH DRAWINGS AND SPECIFICATIONS.
5. VERIFY WITH ROOF SYSTEM WHETHER UNDERLAYMENT OR COVER BOARD.

D6 EAVE DETAIL

1 1/2" = 1'-0"

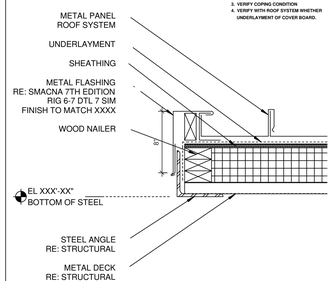
KEY DESIGN POINTS
1. COORDINATE ROOF SLOPE, METAL DECK AND STEEL ORIENTATION WITH STRUCTURAL ENGINEER.
2. CONFIRM INSULATION THICKNESS COMPLIES WITH ADOPTED ENERGY CODE. COORDINATE WITH MECHANICAL ENGINEER. NOTE: R-25 IS INDICATED IN DETAIL.
3. GUTTER TO BE SIZED BY MECHANICAL ENGINEER. DETERMINE IF GUTTER BRACKETS ARE REQUIRED.
4. CONFIRM ROOF EDGE AND GUTTER HEIGHT AND COORDINATE WITH ELEVATIONS.
5. CONFIRM ROOF EDGE AND GUTTER FINISH AND COORDINATE WITH DRAWINGS AND SPECIFICATIONS.
6. VERIFY WITH ROOF SYSTEM WHETHER UNDERLAYMENT OR COVER BOARD.



C6 EAVE DETAIL

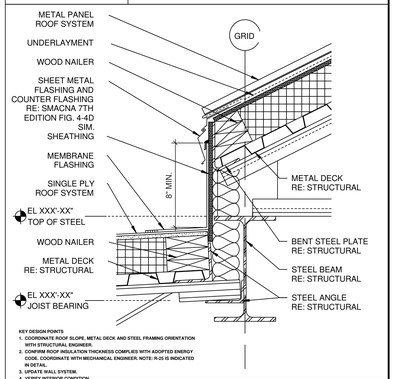
1 1/2" = 1'-0"

KEY DESIGN POINTS
1. VERIFY STRUCTURAL SUPPORT SYSTEM WITH ENGINEER
2. VERIFY ROOF THICKNESS
3. VERIFY COPING CONDITION
4. VERIFY WITH ROOF SYSTEM WHETHER UNDERLAYMENT OF COVER BOARD.



B4 RAKE DETAIL

1 1/2" = 1'-0"

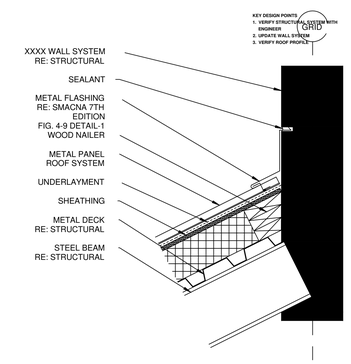


KEY DESIGN POINTS
1. COORDINATE ROOF SLOPE, METAL DECK AND STEEL FRAMING ORIENTATION WITH STRUCTURAL ENGINEER.
2. CONFIRM ROOF INSULATION THICKNESS COMPLIES WITH ADOPTED ENERGY CODE. COORDINATE WITH MECHANICAL ENGINEER. NOTE: R-25 IS INDICATED IN DETAIL.
3. UPDATE WALL SYSTEM.
4. VERIFY INTERIOR CONDITION.
5. VERIFY WITH ROOF SYSTEM WHETHER COVER BOARD OR UNDERLAYMENT.

B6 ROOF TO WALL DETAIL

1 1/2" = 1'-0"

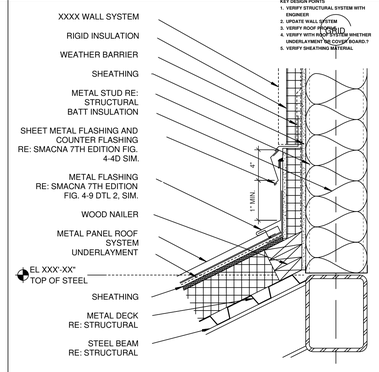
KEY DESIGN POINTS
1. VERIFY STRUCTURAL SYSTEM WITH ENGINEER
2. UPDATE WALL SYSTEM
3. VERIFY ROOF PINCH



A4 ROOF TO WALL DETAIL

1 1/2" = 1'-0"

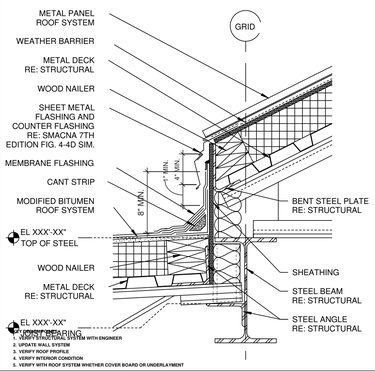
KEY DESIGN POINTS
1. VERIFY STRUCTURAL SYSTEM WITH ENGINEER
2. UPDATE WALL SYSTEM
3. VERIFY ROOF PINCH
4. VERIFY WITH ROOF SYSTEM WHETHER UNDERLAYMENT OR COVER BOARD.
5. VERIFY SHEATHING MATERIAL



A5 ROOF TO WALL DETAIL

1 1/2" = 1'-0"

KEY DESIGN POINTS
1. VERIFY STRUCTURAL SYSTEM WITH ENGINEER
2. UPDATE WALL SYSTEM
3. VERIFY ROOF PINCH
4. VERIFY INTERIOR CONDITION
5. VERIFY WITH ROOF SYSTEM WHETHER COVER BOARD OR UNDERLAYMENT



A6 ROOF TO WALL DETAIL

1 1/2" = 1'-0"

LMHT Project No. 22160.00

national restaurant designers
INRD
ARCHITECTS & ENGINEERS
7208 ACC Blvd, 2nd Floor, Raleigh, NC 27617
ph: 919 544 0087 fax: 919 544 9399
A Division of LMHT Associates

STATE OF FLORIDA
GLEN LEHMAN
99778
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ROOF DETAILS - METAL

RibCrib BBQ

Revisions

THRU ADDENDUM " "

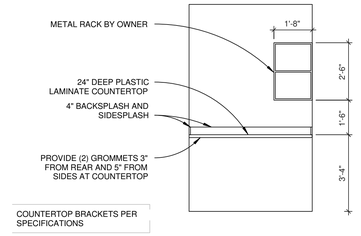
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

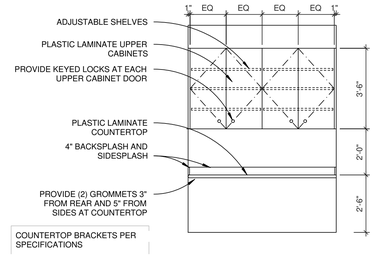
Sheet No.
A535

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A535.dwg
Plotted by: chudsen
Plotted date: Aug 12, 2022 - 2:35pm



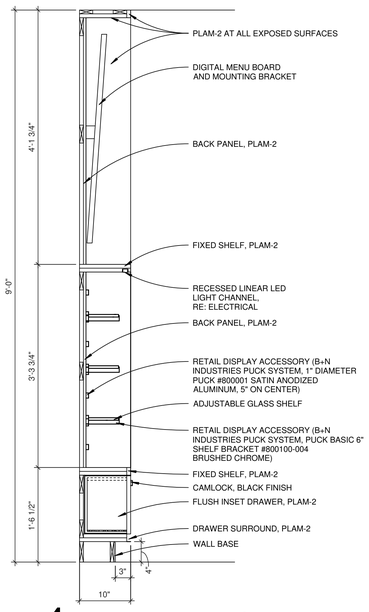
6 MANGERS OFFICE 2

3/8" = 1'-0"



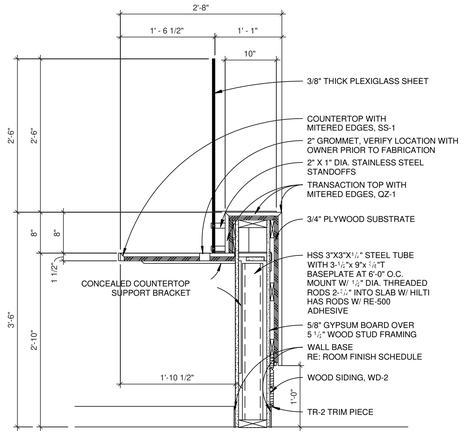
5 MANAGERS OFFICE 1

3/8" = 1'-0"



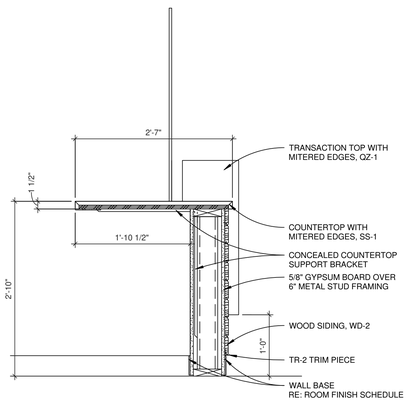
4 RETAIL DISPLAY

1" = 1'-0" 4 - A106



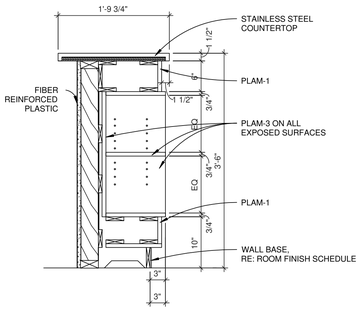
3 P.O.S. COUNTER

1" = 1'-0" 2 - A106



2 P.O.S. COUNTER

1" = 1'-0" 2 - A106



1 STORAGE AT PIT BOSS

1" = 1'-0" 3 - A106

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A541.dwg
Plotted by: chudsen
Plotted date: Aug 12, 2022 - 2:36pm

LMHT Project No. 22160.00

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STATE OF FLORIDA
GLEN LEHMANN
89778
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: MILLWORK SECTIONS

Revisions

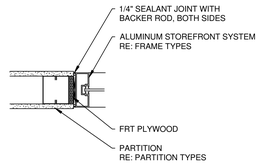
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

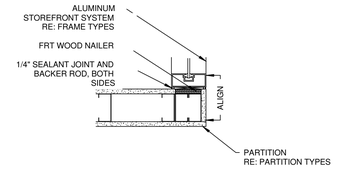
Sheet No.
A541



KEY DESIGN POINTS
-VERIFY STOREFRONT PROFILE
-VERIFY GLAZING THICKNESS
-VERIFY WALL CONSTRUCTION
-VERIFY NEED FOR SOUND BATT

E4 DETAIL

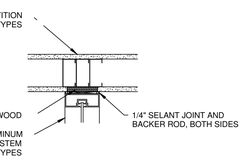
N.T.S.



KEY DESIGN POINT
-VERIFY STOREFRONT PROFILE
-VERIFY GLAZING THICKNESS
-VERIFY WALL CONSTRUCTION
-VERIFY NEED FOR SOUND BATT

E5 DETAIL

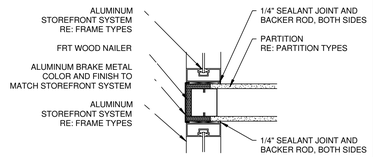
N.T.S.



KEY DESIGN POINTS
-VERIFY STOREFRONT PROFILE
-VERIFY GLAZING THICKNESS
-VERIFY WALL CONSTRUCTION
-VERIFY NEED FOR SOUND BATT

E6 DETAIL

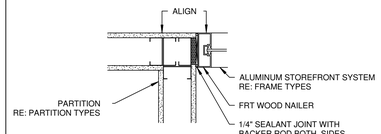
N.T.S.



KEY DESIGN POINTS
-VERIFY STOREFRONT PROFILE
-VERIFY GLAZING THICKNESS
-VERIFY WALL CONSTRUCTION
-VERIFY NEED FOR SOUND BATT

D4 DETAIL

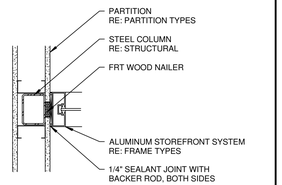
N.T.S.



KEY DESIGN POINTS
-VERIFY STOREFRONT PROFILE
-VERIFY GLAZING THICKNESS
-VERIFY WALL CONSTRUCTION
-VERIFY NEED FOR SOUND BATT

D5 DETAIL

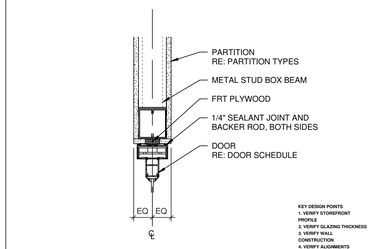
N.T.S.



KEY DESIGN POINTS
-VERIFY STOREFRONT PROFILE
-VERIFY GLAZING THICKNESS
-VERIFY WALL CONSTRUCTION
-VERIFY STEEL WITH ENGINEER
-VERIFY NEED FOR SOUND BATT

D6 DETAIL

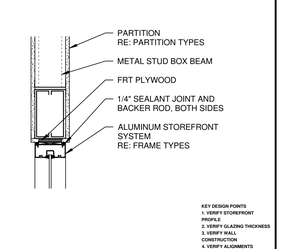
1 1/2" = 1'-0"



KEY DESIGN POINTS
1. VERIFY STOREFRONT PROFILE
2. VERIFY GLAZING THICKNESS
3. VERIFY WALL CONSTRUCTION
4. VERIFY ALIGNMENTS
5. VERIFY NEED FOR SOUND BATT

C5 HEAD DETAIL

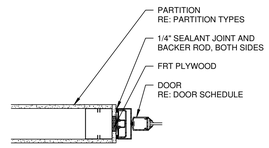
1 1/2" = 1'-0"



KEY DESIGN POINTS
1. VERIFY STOREFRONT PROFILE
2. VERIFY GLAZING THICKNESS
3. VERIFY WALL CONSTRUCTION
4. VERIFY ALIGNMENTS
5. VERIFY NEED FOR SOUND BATT

C6 HEAD DETAIL

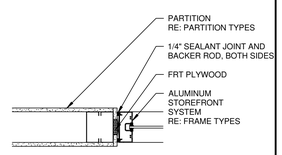
1 1/2" = 1'-0"



KEY DESIGN POINTS
1. VERIFY STOREFRONT PROFILE
2. VERIFY GLAZING THICKNESS
3. VERIFY WALL CONSTRUCTION
4. VERIFY DIMENSIONS
5. VERIFY NEED FOR SOUND BATT

B5 JAMB DETAIL

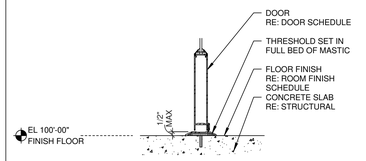
1 1/2" = 1'-0"



KEY DESIGN POINTS
1. VERIFY STOREFRONT PROFILE
2. VERIFY GLAZING THICKNESS
3. VERIFY WALL CONSTRUCTION
4. VERIFY DIMENSIONS
5. VERIFY NEED FOR SOUND BATT

B6 JAMB DETAIL

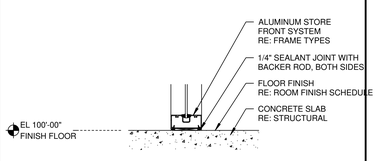
1 1/2" = 1'-0"



KEY DESIGN POINTS
1. VERIFY STOREFRONT PROFILE.
2. VERIFY GLAZING THICKNESS.
3. VERIFY WALK OFF MAT SPEC.
4. VERIFY NEED FOR SOUND BATT.
5. VERIFY FLOOR FINISH.

A5 THRESHOLD DETAIL

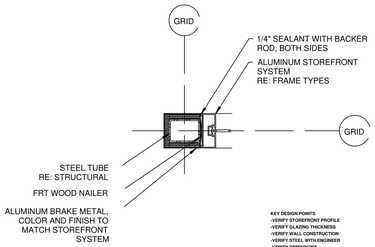
1 1/2" = 1'-0"



KEY DESIGN POINTS
1. VERIFY STOREFRONT PROFILE
2. VERIFY GLAZING THICKNESS
3. VERIFY SILL CONDITION
4. VERIFY NEED FOR SOUND BAT

A6 DETAIL

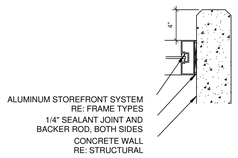
1 1/2" = 1'-0"



KEY DESIGN POINTS
-VERIFY STOREFRONT PROFILE
-VERIFY GLAZING THICKNESS
-VERIFY WALL CONSTRUCTION
-VERIFY STEEL WITH ENGINEER
-VERIFY DIMENSIONS

3 DETAIL

N.T.S.



KEY DESIGN POINTS
-VERIFY STOREFRONT PROFILE
-VERIFY GLAZING THICKNESS
-VERIFY WALL CONSTRUCTION
-VERIFY CONCRETE WITH ENGINEER
-VERIFY DIMENSIONS

4 DETAIL

N.T.S.

LMHT Project No. 22160.00

INRD national restaurant designers
ARCHITECTS & ENGINEERS
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ph: 919 544 0087 fax: 919 544 9399
A Division of LMHT Associates

STATE OF FLORIDA
GLEN LEHMANN
68728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: INTERIOR STOREFRONT DETAILS

Revisions

THRU ADDENDUM " "

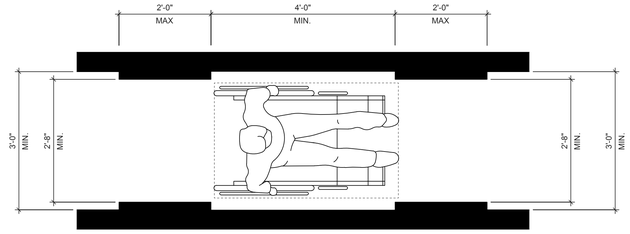
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

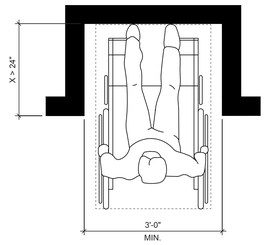
Sheet No.
A542

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A542.dwg
Plotted by: chudsen
Plotted Date: Aug 12, 2022 - 2:35pm



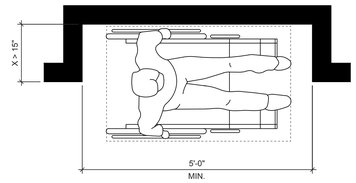
E3 CLEAR WIDTH OF ACCESSIBLE ROUTE

3/4" = 1'-0"



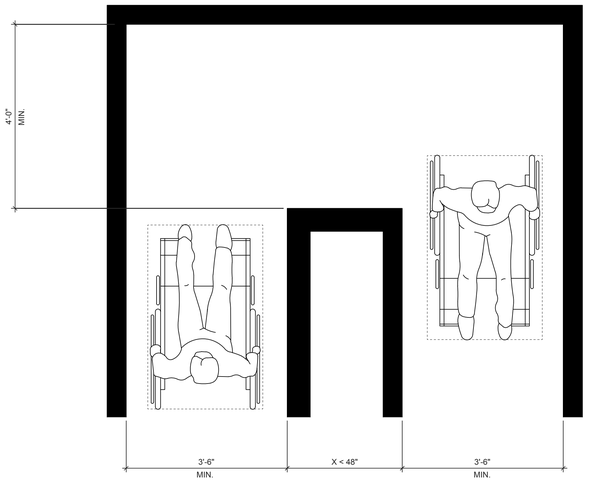
E5 MANEUVERING ALCOVE FORWARD

3/4" = 1'-0"

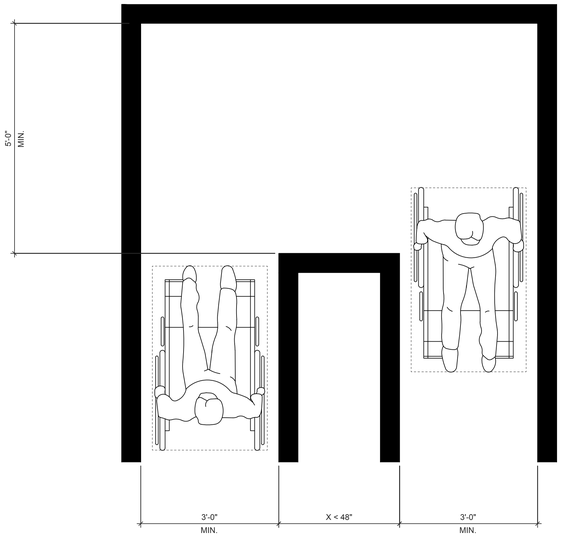


E6 MANEUVERING ALCOVE PARALLEL

3/4" = 1'-0"



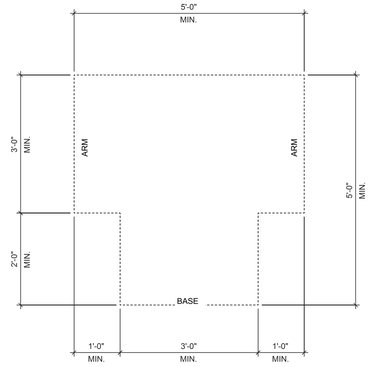
A
180 DEGREE TURN



B
180 DEGREE TURN
(EXCEPTION)

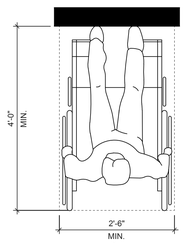
C3 CLEAR WIDTH AT TURN

3/4" = 1'-0"

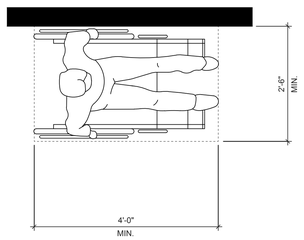


B1 T-SHAPED TURNING SPACE

3/4" = 1'-0"



A
FORWARD



B
PARALLEL

A1 WHEEL CHAIR POSITIONS

3/4" = 1'-0"

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A570.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 4:29pm

LMHT Project No. 22160.00

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STATE OF FLORIDA
GLEN LEHMANN
69728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ADA PLAN VIEWS

Revisions

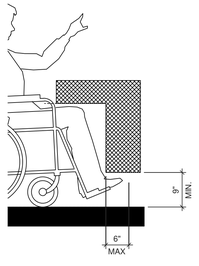
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

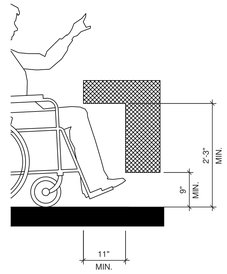
Drawn By
CDK

Checked By
NRD

Sheet No.
A570



A
TOE CLEARANCE



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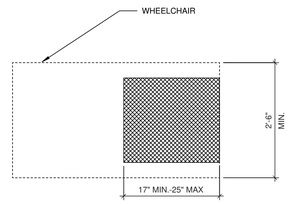
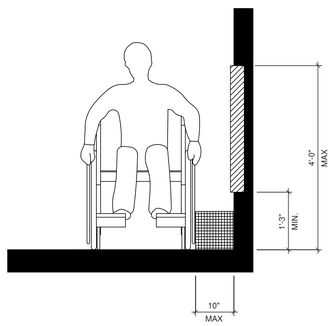
KNEE CLEARANCE



C
PLAN

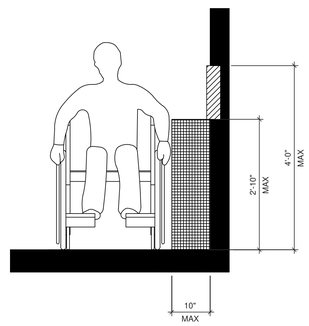
D4 TOE CLEARANCE

3/4" = 1'-0"



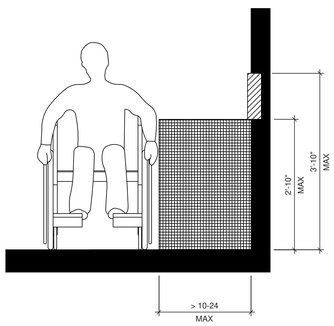
B4 SIDE HIGH REACH UNOBSTRUCTED

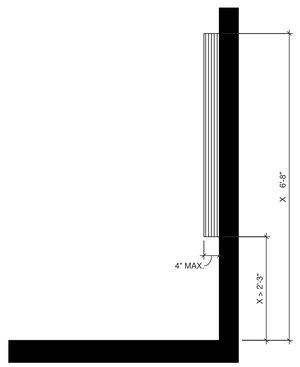
3/4" = 1'-0"



B5 SIDE HIGH REACH OBSTRUCTED

3/4" = 1'-0"

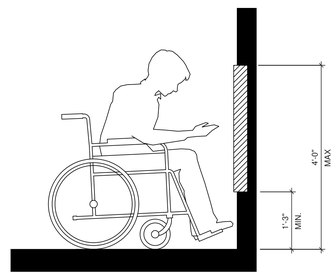




A3 PROTRUDING OBJECTS

3/4" = 1'-0"

?



A4 FORWARD HIGH REACH UNOBSTRUCTED

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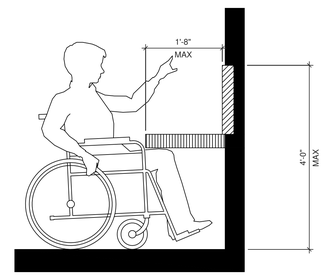

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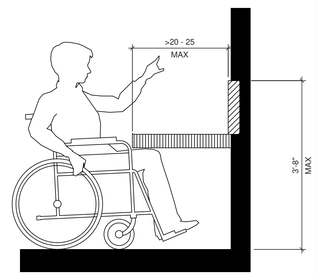

B

A5 FORWARD HIGH REACH OBSTRUCTED

3/4" = 1'-0"

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A571.dwg
Plotted by: chudsen
Plotted Date: Aug 12, 2022 - 2:36pm

LMHT Project No. 22160.00

NRD national restaurant designers
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A Division of LMHT Associates

STATE OF FLORIDA
GLEN LEHMANN
AR97728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ADA ELEVATIONS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A571

FLOORING:

PC	POLISHED CONCRETE
SC	SEALED CONCRETE
EPOXY	NON-SLIP EPOXY FLOOR SYSTEM WITH INTEGRAL COVE BASE

WALL BASE:

RB-1	RUBBER BASE
MANUF	JOHNSONITE
COLOR	40 BLACK
CTB-1	CERAMIC TILE BASE
MANUF	AMERICAN OLEAN
COLLECTION	COLORSTORY WALL
COLOR	MATTE SHADOW 9016
SIZE	6" X 6"
GROUT	LATICRETE 45 RAVEN
CONTACT	PAULA GORDON 405.205.6710
EMAIL	PAULA@METROSURFACES.COM

WALLS:

CT-1	CERAMIC TILE
MANUF	ANATOLIA
COLLECTION	SOHO
COLOR	CANVAS WHITE
SIZE	4 x 12
GROUT	LATICRETE 45 RAVEN
CONTACT	PAULA GORDON 405.205.6710
EMAIL	PAULA@METROSURFACES.COM
WD-1	WOOD SHIPLAP
SPECIES	WESTERN RED CEDAR SMOOTH FACE
SIZE	1 x 4 SHIPLAP PLANK
WD-2	WOOD WAINSCOT
MANUF	TERRAMAI
PRODUCT	MISSION OAK ENGINEERED F/P
STAIN	DARK OIL
SIZE	1/2" D x 4 1/2"W x 1' - 7' LENGTHS
CONTACT	MATT NICHOLS 541.500.7838
EMAIL	MNICHOLS@TERRAMAI.COM
FRP	FIBER-REINFORCED PLASTIC PANEL WHITE
SST	STAINLESS STEEL SHEET
MANUF	ACROVYN
PRODUCT	16-GA.STAINLESS STEEL SHEET
SIZE	4' x 10'
TEXTURE	SMOOTH WITH #4 SATIN FINISH

MILLWORK:

QZ-1	QUARTZ
MANUF	VICOSTONE
PRODUCT	QUARTZ
COLOR	BQ8860 CONCRETO
FINISH	HONED
THICKNESS	2 CM
SS-1	SOLID SURFACE
MANUF	CORIAN
PRODUCT	SOLID SURFACE
COLOR	BASALT TERRAZZO
PLAM-1	PLASTIC LAMINATE
MANUF	WILSONART
PRODUCT	PLASTIC LAMINATE
COLOR	FORGED STEEL 4995-60
FINISH	MATTE
PLAM-2	PLASTIC LAMINATE
MANUF	FORMICA
PRODUCT	PLASTIC LAMINATE
COLOR	BLACK 909-PX
FINISH	PLEX
PLAM-3	PLASTIC LAMINATE
MANUF	FORMICA
PRODUCT	PLASTIC LAMINATE
COLOR	MILLENIUM OAK 05887-NT
FINISH	NATURELLE TEXTURE

CEILINGS

GYP	GYPSUM, PAINTED
ACT-1	ACOUSTICAL CEILING TILE
MANUF	ARMSTRONG
SERIES	CLEAN ROOM VL, WHITE
SIZE	2' X 2' SQUARE LAY-IN
GCMP-1	GALVANIZED CORRUGATED METAL PANEL CEILING

PAINT:

PT-1	
MANUF	SHERWIN WILLIAMS
COLOR	DIVINE WHITE SW 6105
PT-2	
MANUF	SHERWIN WILLIAMS
COLOR	IRON ORE SW 7069
PT-3	
MANUF	SHERWIN WILLIAMS
COLOR	GREENBLACK SW6994

ROLLER SHADES:

MANUF	MECHOSHADE
PRODUCT	THERMOVEIL BASKET WEAVE
COLOR	TBD
OPACITY	TBD
OPERATION	MANUAL

TRIM PIECES:

TR-1	
MANUF	SCHLUTER
PRODUCT	QUADEC
FINISH	TEXTURE COLOR COATED ALUMINUM, MGS BLACK
TR-2	
MANUF	FRY REGLET
PRODUCT	MILLWORK REVEAL L ANGLE W/ RETURN KEY
FINISH	BLACK POWDERCOAT
TR-3	
MANUF	FRY REGLET
PRODUCT	MILLWORK 1/8" POST TERMINATION
FINISH	BLACK POWDERCOAT

4 FINISH LEGEND

ROOM SCHEDULE

MARK	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING TYPE	NOTES
101	VESTIBULE	PC	RB-1	WD-1	-	-	-	GCMP-1	
102	WAITING	PC	RB-1	-	PT-1	PT-1	PT-1	GCMP-1	
103	ORDERING	PC	RB-1	PT-1	PT-1	PT-1	PT-1	O.T.S./PT-3	
104	EXIT	PC	RB-1	PT-1	PT-1	WD-1	WD-1	GCMP-1	
105	DINING	PC	RB-1	PT-1 / WD-2	PT-1 / WD-2	PT-1 / WD-2	PT-1 / WD-2	O.T.S./PT-3	
106	DRIVE THRU	PC	RB-1	PT-1	PT-1	PT-1	PT-1	O.T.S./PT-3	
107	DISH WASH	EPOXY	EPOXY	FRP	FRP	FRP	FRP	ACT-1	
108	PIT BOSS	EPOXY	EPOXY	SST	SST	SST	SST	SST	
109	DRY STORAGE	EPOXY	EPOXY	FRP	FRP	FRP	FRP	ACT-1	
110	SMOKER LOADING	EPOXY	EPOXY	FRP	FRP	FRP	FRP	ACT-1	
111	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	O.T.S.	
112	OFFICE / NETWORK	EPOXY	EPOXY	PT-1	PT-1	PT-1	PT-1	ACT-1	
113	WOMEN'S RR	PC	CTB-1	CT-1/PT-2	CT-1/PT-2	CT-1/PT-2	CT-1/PT-2	GYP./PT-2	
114	MEN'S RR	PC	CTB-1	CT-1/PT-2	CT-1/PT-2	CT-1/PT-2	CT-1/PT-2	GYP./PT-2	
115	HALL	PC	RB-1	WD-2/PT-1	WD-2/PT-1	WD-2/PT-1	WD-2/PT-1	GYP./PT-1	
118	SMOKER ENCLOSURE	-	-	-	-	-	-	-	

3 ROOM FINISH SCHEDULE

2 FINISH PLAN

1/4" = 1'-0"

POLISHED CONCRETE

EPOXY

1 FINISH PLAN LEGEND

N.T.S.

LMHT Project No. 22160.00

INRD national restaurant designers
ARCHITECTS & ENGINEERS
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STATE OF FLORIDA
GLEN LEHMANN
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8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: FINISH PLAN and ROOM FINISH SCHEDULE

Revisions

THRU ADDENDUM " "

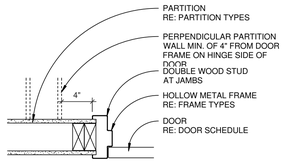
PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

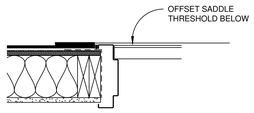
Sheet No.
A601

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\A601.dwg
Plotted by: chudsen
Plotted date: Aug 12, 2022 - 2:35pm



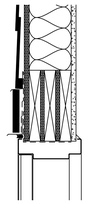
17 TYPICAL HM JAMB

1 1/2" = 1'-0"



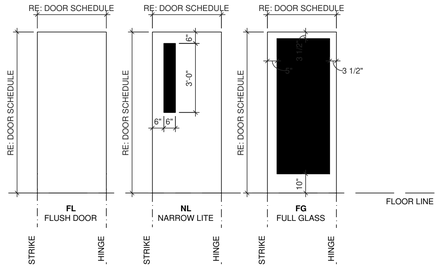
16 HM DOOR JAMB

1 1/2" = 1'-0"



15 HM EXTERIOR DOOR HEAD

1 1/2" = 1'-0"



14 DOOR TYPES

3/8" = 1'-0"

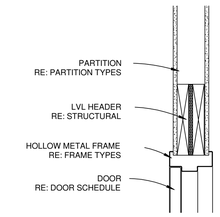
DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR TYPE	DOOR QTY	DOOR WIDTH	DOOR HEIGHT	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME FINISH	FIRE RATING MINUTES	HDW SET NO.	DETAIL HEAD	DETAIL JAMB	DETAIL THRESHOLD	NOTES
FINISH FLOOR															
101	VESTIBULE	FG	DOUBLE	6'-0"	7'-0"	PT	G2	A	PT	-		3/A501	7/A503	9/A602	
102	VESTIBULE	FG	DOUBLE	6'-0"	7'-0"	PT	G2	K	PT	-		3/A501 SIM	4/A503 SIM	9/A602	
104	EXIT	FG	SINGLE	3'-0"	7'-0"	PT	G2	L	PT	-		3/A501 SIM	4/A503	9/A602	
105	DINING	FG	SINGLE	3'-0"	7'-0"	PT	G2		PT	-		9/A501	2/A503	9/A602	
106	ORDERING	FG	SINGLE	3'-0"	7'-0"	PT	G2	M	PT	-		9/A501	11/A503	9/A602	
110	SMOKER ENCLOSURE	FL	SINGLE	3'-6"	7'-0"	PT	-	N	PT	-		15/A602	16/A602	9/A602	
111	MECHANICAL	FL	DOUBLE	3'-0"	7'-0"	PT	-	N	PT-2	-		15/A602	16/A602	9/A602	
107	DISH WASH	NL	SINGLE	3'-0"	7'-0"	PLAM	G2	P	PT-2	-		10/A602	11/A602	-	DOUBLE ACTING DOOR
108	ORDERING	NL	SINGLE	3'-0"	7'-0"	PLAM	G2	N	PT-2	-		12/A602	17/A602	-	
114	MEN'S RR	FL	SINGLE	3'-0"	7'-0"	PLAM-3	-	N	PT-2	-		12/A602	17/A602	-	
113	WOMEN'S RR	FL	SINGLE	3'-0"	7'-0"	PLAM-3	-	N	PT-2	-		12/A602	17/A602	-	

DOOR PANEL AND FRAME SCHEDULE NOTES:

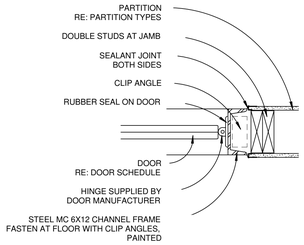
1. REFERENCE DOOR AND FRAME SCHEDULE FOR ALL PANEL AND FRAME HEIGHTS AND WIDTHS
2. ALL JAMBS ARE 2", UNLESS NOTED OTHERWISE
3. ALL "S" FRAMES ARE 2" HEAD, UNLESS NOTED OTHERWISE
4. PT FINISH IS RIB CRIB CUSTOM RED COLOR

13 DOOR SCHEDULE AND NOTES



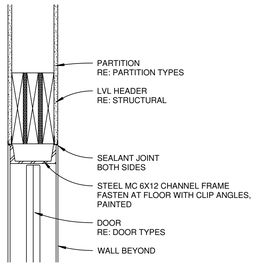
12 DETAIL

1 1/2" = 1'-0"



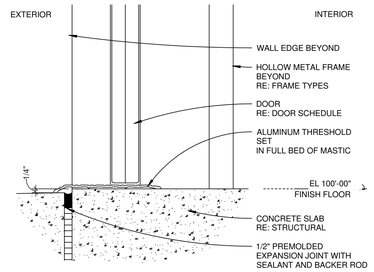
11 TRAFFIC DOOR JAMB

1 1/2" = 1'-0"



10 HEAD DETAIL

1 1/2" = 1'-0"



9 EXTERIOR THRESHOLD

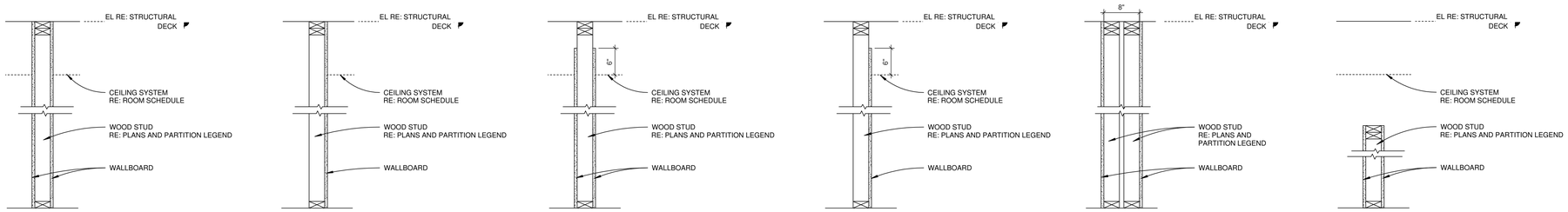
3" = 1'-0"

8 FRAME TYPES

1/4" = 1'-0"

GLAZING LEGEND

G1:	1" THICK INSULATED GLAIING UNIT, LOW E COATING
G2:	1/4" THICK GLAZING
T:	TEMPERED
P1:	1" THICK INSULATED METAL PANEL, FINISH TO MATCH STOREFRONT SYSTEM



PARTITION TAG LEGEND

W4-11 — CORE MATERIAL AND DEPTH; PARTITION NUMBER

CORE MATERIAL AND DEPTH

(W) WOOD FRAMING DEPTHS
W4 = 2x4 NOMINAL WOOD FRAMING
W6 = 2x6 NOMINAL WOOD FRAMING
W8 = 2x8 NOMINAL WOOD FRAMING

SOUND ATTENUATION

REFER TO FLOOR PLANS AND SECTIONS FOR EXTENT OF SOUND ATTENUATION BLANKET.

7 PARTITION LEGEND

INRD national restaurant designers
ARCHITECTS & ENGINEERS
7208 ACC Blvd. 2nd Floor, Raleigh, NC 27617
ph: 919 544 9387 fax: 919 544 9399
A Division of LMHT Associates

LMHT Project No. 22160.00

STATE OF FLORIDA
GLEN LEHMANN
97728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: DOOR SCHEDULE/FRAME TYPES

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

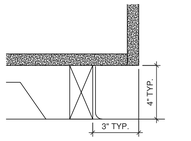
Checked By
NRD

Sheet No.
A602

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\A602.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:35pm

D1 BASE CONDITIONS

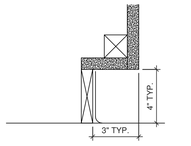
3" = 1'-0"



RECESSED BASE (STRAIGHT OR COVE)

MATERIALS Rubber, vinyl, laminate, ceramic tile (SIM), sheet good with flash cove installation (SIM)

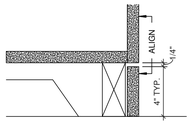
CAUTIONS Consider base finish as it relates to durability, maintenance and wear over time. Consider base profile as it relates to straight vs. cove base.



RECESSED INTEGRAL BASE
(Base is integral to the cabinet door, providing an ADA forward approach.)

MATERIALS Rubber, Vinyl, Laminate

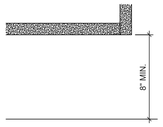
CAUTIONS Consider base finish as it relates to durability, maintenance and wear over time.



FLUSH BASE TO MATCH CABINET FACE

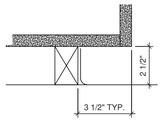
MATERIALS Solid WOOD, solid surface, laminate.

CAUTIONS Consider base finish as it relates to durability, maintenance and wear over time. Consider limitations of space.



ZERO BASE (FLOATING CABINET)

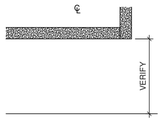
CAUTIONS Consider increased support requirements.



RECESSED BASE (FLOATING CABINET)

MATERIALS Rubber, vinyl, laminate.

CAUTIONS More exposed and vulnerable leading edge



FURNITURE FOOT AS BASE

CAUTIONS Design around actual off-the-shelf product. Product shown is a Hafele furniture foot.

4D UPPER CABINET EDGE

3" = 1'-0"

DESCRIPTION Door overhangs bottom panel of cabinet box, eliminating the need for door pull hardware.

CAUTIONS Confirm no overhead lighting with client.

DESCRIPTION Door overhangs bottom panel of cabinet box, eliminating the need for door pull hardware. Under-cabinet lighting concealed below.

PRODUCT Undercabinet lighting: Celestial Lighting Andromeda LC series shown

CAUTIONS Consider sightlines of U/C lighting and coordinate switching with electrical.

DESCRIPTION Bottom edge of door aligns with bottom panel of cabinet box, door pull or touch latch.

PRODUCT Forms + Surfaces Mesa pull shown

CAUTIONS Confirm no undercabinet lighting required

DESCRIPTION Door overhangs bottom panel of cabinet box, creating a lip for undercabinet lighting. Door pull or touch latch attached to door.

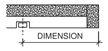
PRODUCT Undercabinet lighting: Celestial Lighting Andromeda LC series shown

CAUTIONS Consider sightlines of U/C lighting and coordinate switching with electrical.

DESCRIPTION No door (open upper cabinet) with undercabinet lighting.

PRODUCT Undercabinet lighting: Celestial Lighting Andromeda LC Series

CAUTIONS Consider sightlines of U/C lighting and coordinate switching with electrical.



DESCRIPTION Open upper cabinet or floating shelf with undercabinet lighting.

PRODUCT Undercabinet lighting: Celestial Lighting Andromeda LC Series

CAUTIONS Consider sightlines of U/C lighting and coordinate switching with electrical.

5D HARDWARE OPTIONS

3" = 1'-0"

LOWER CABINET DOOR **UPPER CABINET DOOR**

TAB PULL

PRODUCT Forms + Surfaces Mesa: anodized aluminum satin clear or matte black

USES General use, high design areas

SIZES Depth: 1-1/2"; Width: 1-1/2", 2-1/4" or 3-1/2" are typical with other sizes available per the manufacturer.

COST $$$

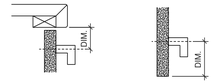
EXTRUDED ALUMINUM PULL

PRODUCT Hafele extruded handle: black, silver anodized (matte) or satin aluminum.

USES High design areas where a reveal is desired.

SIZES Manufactured in long runs and cut to fit width.

COST $$$$



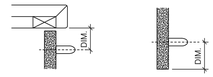
SQUARE PULL

PRODUCT Doug Mockett DP104A-17S (satin nickel) or DP105A-26M (matte chrome)

USES General use, minimal appearance.

SIZES Profile: 1/2"; depth: 1-1/4"

COST $$



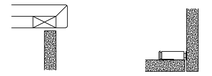
RING PULL

PRODUCT Emtek brass ring knob #86270, available in satin nickel, flat black and polished chrome.

USES General use, minimal appearance.

SIZES Projection: 1-1/4"; width: 1-1/4"

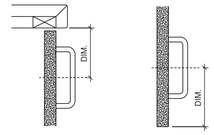
COST $$$



TOUCH LATCH

USES Where no visible hardware is desired.

COST $$



WIRE PULL

USES General use. Do not use this pull if at all possible!

SIZES Diameter: 5/16"; height: 4".

COST $

A1 BACKSPLASH CONDITION DETAILS

3" = 1'-0"

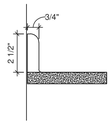
LAMINATE BACKSPLASH DETAILS

ZERO BACKSPLASH

USES General use

CAUTIONS Typically not suitable for wet locations. Verify whether additional wall protection is necessary.

COST $

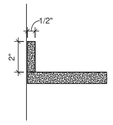


LAMINATE BACKSPLASH, POSTFORMED
(Max. face radius of 9/16", Max. back radius 3/16")

USES With phenolic backed laminates, wet conditions, high dirt areas, hospitals, general use

CAUTIONS Verify whether additional wall protection is necessary. Substrate at wet locations to be marine grade plywood

COST $

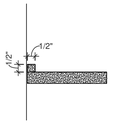


SQUARE LAMINATE BACKSPLASH

USES With dark phenolic backed laminates or through-color laminates, wet conditions, and general use.

CAUTIONS Verify whether additional wall protection is necessary. Substrate at wet locations to be marine grade plywood. Do not use with light colored phenolic backed laminates.

COST $ (Phenolic backed laminate)
$$ (Through color laminate)

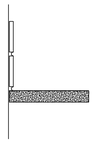


1/2"X1/2" STEEL BAR FIXED TO WALL AND COUNTERTOP

USES Minimal backsplash desired, more highly designed locations.

CAUTIONS When implemented at wet locations, specify water resistant wall finish above steel bar.

COST $$



TILE BACKSPLASH

USES Wet locations, more highly designed locations, and high traffic areas.

CAUTIONS Additional costs incurred when specifying tile (product + install labor).

COST $$-$$$

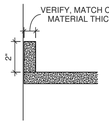
SOLID SURFACE BACKSPLASH DETAILS

ZERO BACKSPLASH

USES General use

CAUTIONS Typically not suitable for wet locations. Verify whether additional wall protection is necessary.

COST $$

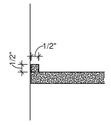


SQUARE COUNTER MATCH BACKSPLASH

USES General use, wet conditions.

CAUTIONS Verify whether additional wall protection is necessary.

COST $$

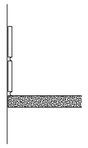


1/2"X1/2" STEEL BAR FIXED TO WALL AND COUNTERTOP

USES Minimal backsplash desired, more highly designed locations.

CAUTIONS When implemented at wet locations, specify water resistant wall finish above steel bar

COST $$

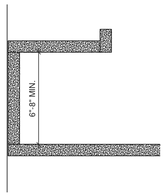


TILE BACKSPLASH

USES Wet locations, more highly designed locations, and high traffic areas.

CAUTIONS Additional costs incurred when specifying tile (product + install labor)

COST $$-$$$



BACKSPLASH WITH TERMINATION, SHELF, PICTURE RAIL, TRIM

USES Wet conditions, more highly designed locations.

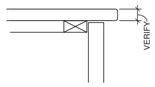
CAUTIONS Additional cost related to materials and installation.

COST $$$

4A COUNTER EDGE CONDITIONS

3" = 1'-0"

SOLID SURFACE

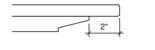


MD-CTE-2A
DOUBLE-EASED EDGE, THIN PROFILE
(Thickness of product determines edge profile depth)

MATERIALS Acrylic, resin, fiber, or composite solid surface.

USES More highly designed areas, high abuse areas and wet conditions.

COST $$-$$$

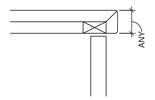


EXTENDED DOUBLE-EASED EDGE, THIN PROFILE, NO BASE CABINET

MATERIALS Acrylic, resin, fiber, or composite solid surface.

USES More highly designed areas, high abuse areas and wet conditions.

COST $$-$$$

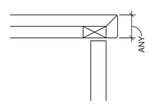


DOUBLE-EASED EDGE AND MITERED DROP

MATERIALS Acrylic solid surface.

USES More highly designed areas, high abuse areas and wet conditions.

COST $$-$$$$

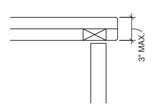


SINGLE-EASED EDGE AND MITERED DROP

MATERIALS Acrylic solid surface.

USES More highly designed areas, high abuse areas and wet conditions.

COST $$-$$$$

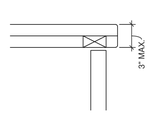


DOUBLE-EASED EDGE, BUILT UP

MATERIALS Engineered stone and acrylic or resin solid surface.

USES More highly designed areas, high abuse areas and wet conditions.

COST $$-$$$

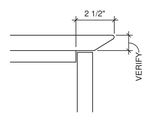


SINGLE-EASED EDGE, BUILT UP

MATERIALS Engineered stone and acrylic or resin solid surface.

USES More highly designed areas, high abuse areas and wet conditions.

COST $$-$$$



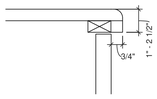
REVERSE KNIFE EDGE

MATERIALS Acrylic or fiber composite solid surface.

USES More highly designed areas, high abuse areas and wet conditions.

COST $$-$$$$

LAMINATE SURFACE



WATERFALL EDGE, POSTFORMED
(Max. face radius 9/16"; max. back radius 3/16")

USES General use, phenolic backed laminates, wet conditions high dirt areas, and hospitals.

CAUTIONS Do not align face of base cabinet door below with counter edge in wet conditions. Substrate at wet conditions to be marine grade plywood.

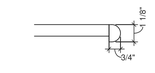
COST $

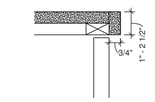
BULLNOSE EDGE, POSTFORMED
(Max. face radius 9/16"; max. back radius 3/16")

USES General use, phenolic backed laminates, wet conditions, high dirt areas, and hospitals.

CAUTIONS Do not align face of base cabinet door with counter edge in wet conditions. Substrate at wet locations to be marine grade plywood. Coordinate depth of countertop edge profile with under-counter equipment to avoid conflicts.

COST $



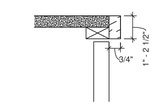


SINGLE-EASED EDGE, BUILT UP

USES More highly designed areas, high abuse areas and wet conditions.

CAUTIONS Substrates at wet locations to be marine grade plywood. Coordinate depth of countertop edge profile with under-counter equipment to avoid conflicts.

COST $

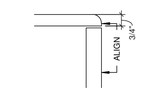


SQUARE SOLID WOOD OR SOLID SURFACE EDGE

USES Dark phenolic backed laminates, general use, high traffic areas and wet conditions.

CAUTIONS Use solid surface edge in lieu of solid WOOD at wet locations.

COST $$

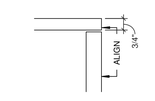


WATERFALL EDGE, POSTFORMED
(Max. face radius 9/16"; max. back radius 3/16")

USES Phenolic backed laminates, general use and wet conditions.

CAUTIONS Do not align face of base cabinet door with counter edge in wet conditions.

COST $



SQUARE LAMINATE EDGE
(Max. face radius 9/16"; max. back radius 3/16")

USES Dark phenolic backed laminates or through color laminates, wet conditions, and general use.

CAUTIONS Do not align face of base cabinet with counter edge in wet conditions.

COST $ (phenolic backed laminate)
$$ (Through-color laminate)

LMHT Project No. 22160.00

INRD national restaurant designers
ARCHITECTS & ENGINEERS
7208 ACC Blvd. 2nd Floor, Raleigh, NC 27617
ph: 919 544 0087 fax: 919 544 9399
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STATE OF FLORIDA
GLEN LEHMAN
#R97728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: MILLWORK CONDITIONS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
A821

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Plotted by: chudson
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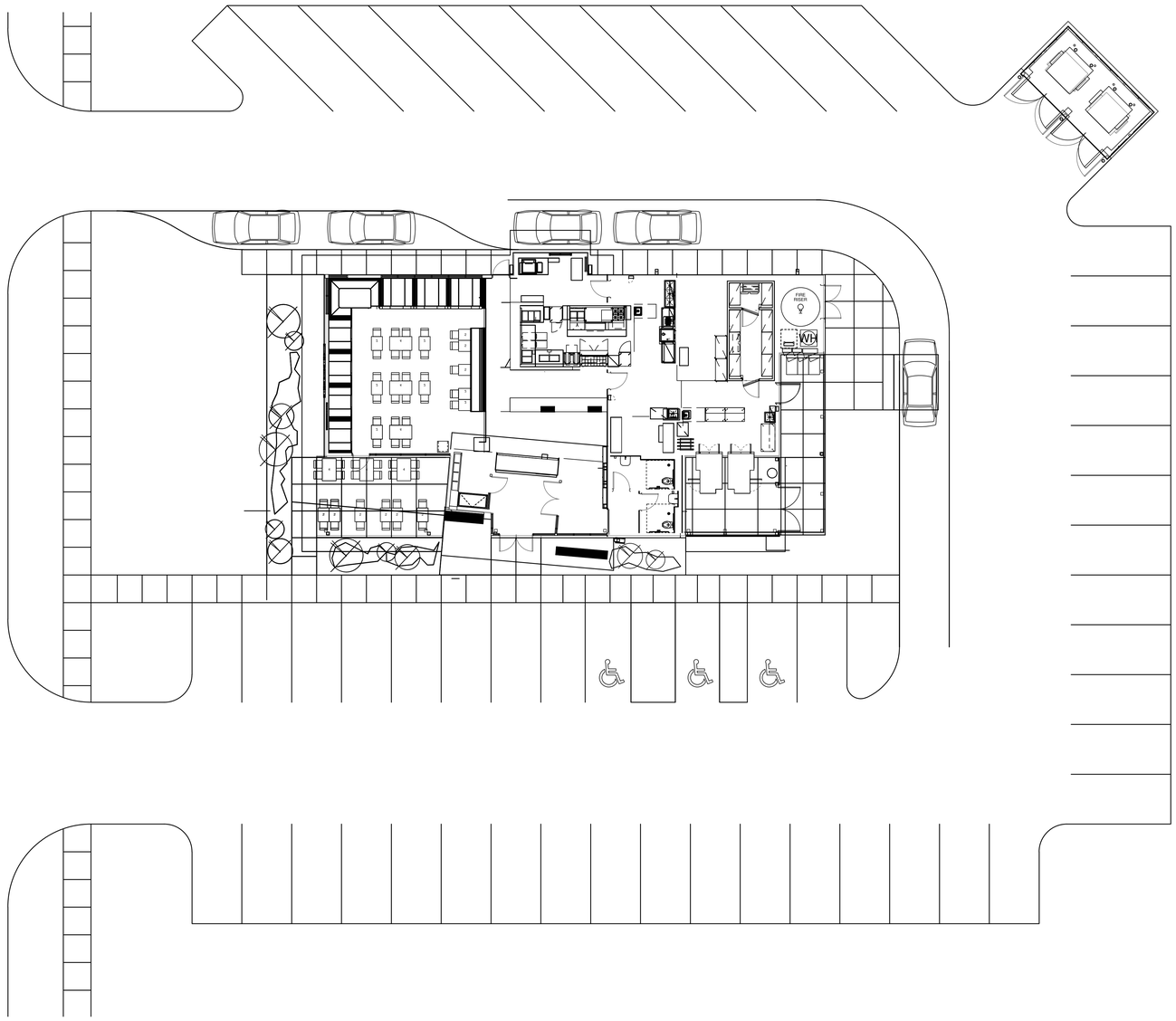

A1

1/16" = 1'-0"

ARCHITECTURAL SITE PLAN

LMHT Project No. 22160.00

INRD national restaurant designers
ARCHITECTS & ENGINEERS
7208 ACC Blvd. 2nd Floor, Raleigh, NC 27617
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STATE OF FLORIDA
GLEN LEHMANN
AR97728
REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ARCHITECTURAL SITE PLAN

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
AS101

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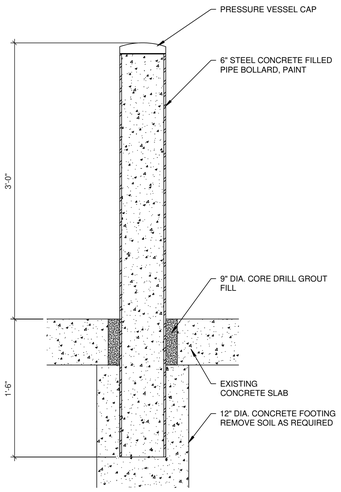
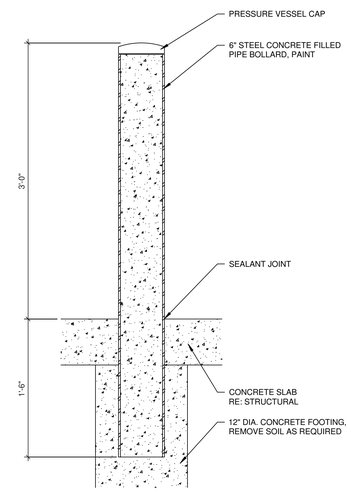
Plotted Date: Aug 12, 2022 - 2:37pm



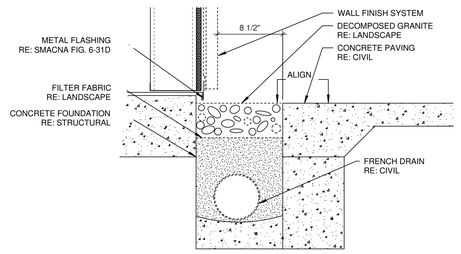
B4 BOLLARD - CORE DRILL

1 1/2" = 1'-0"



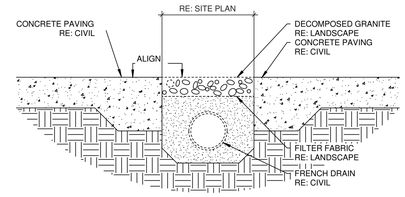
B5 BOLLARD - CAST

1 1/2" = 1'-0"



A4 TRENCH DRAIN PERIMETER

1 1/2" = 1'-0"



A5 TRENCH DRAIN PARKING

1 1/2" = 1'-0"

LMHT Project No. 22160.00

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STATE OF FLORIDA
GLEN LEHMANN
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REGISTERED ARCHITECT

8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: SITE DETAILS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
CDK

Checked By
NRD

Sheet No.
AS501

Drawing File: Z:\2022\22160-RIBC Lake City FL Site Adapt\CAD\AS501.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 2:37pm

GREASE INTERCEPTOR SCHEDULE

MARK	MANUFACTURER & MODEL	DESCRIPTION	INLET (IN)	OUTLET (IN)	WATER CAPACITY	GREASE / SOLIDS CAPACITY	NUMBER OF COVERS	DIMENSION	WEIGHT	NOTES
GI	GREEN TURTLE GMC 750 FL	GRAVITY FIBERGLASS REINFORCED GREASE INTERCEPTOR	4"	4"	1300 GAL	707/446	2	62" X 96" X 90"	745 lb	RFA Version 1

NOTES:
1. PROVIDE SCHEDULED GREASE CAPACITY, WITH INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG (WHICH CAN BE USED AS A SAMPLING PORT) AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING FLOW DIFFUSING BAFFLE. GASKETED NON-SKID SECURED COVER WITH REMOVABLE LIFT HANDLES, COMPLETE WITH FLOW CONTROL FITTING.

WATER HEATERS / STORAGE TANKS

MARK	AREA SERVED	MANUFACTURER	MODEL	TANK SIZE (GAL)	HEAT INPUT MBH	HEAT INPUT KW	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	NOTES
WH	GROCERY	A.O. SMITH	CYCLONE BTH-199	100	199		120	1	60	B, D, I

EXPANSION TANKS

MARK	MANUFACTURER	MODEL	DESCRIPTION
ET	AMTROL	EX-30	4.4 GALLON

RECIRCULATION PUMP

MARK	MANUFACTURER	MODEL	PUMP POWER W	PUMP POWER HP	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	GPM	HEAD (FT)	DESCRIPTION
RP	BELL & GOSSETT GRUNDFOS ARMSTRONG ARMFLO	PL-30 UP26-96BF E7.2B	0	0.083	120	1	60	5	20	LEAD FREE BRONZE WET ROTOR INLINE CIRCULATOR PUMP WITH 1" FLANGED CONNECTIONS

GENERAL INFORMATION (WATER HEATER):
1. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE FOR WATER HEATER. PROVIDE VACUUM RELIEF VALVES FOR ALL WATER HEATER.

NOTES:
A. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
B. PROVIDE EXPANSION TANK (ET).
C. RECOVER RATE 261 GPH AT 0 F RISE.
D. CONTRACTOR PROVIDED DRAIN PAN.

FLOOR SINK - ZURN #FD2375-NH3-H, DRAIN GRATE, 3"
FLOOR SINK, ZURN Z19001 1/2 GRATE.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	BRANCH SIZES (MIN) CW	HW	WASTE	VENT	MANUFACTURER	MODEL	DESCRIPTION, TRIM AND ACCESSORIES	NOTES
FS	FLOOR SINK			3"	2"	Zurn Industries, LLC.	FD2375-NH3-H	3" FLOOR SINK, ZURN Z19001 1/2 GRATE.	
LAV	WALL HUNG LAVATORY	1/2"	1/2"	2"	1 1/2"	Zurn Industries, LLC.	Z5344	ZURN Z86500-XL-G-PT METERING CENTERSET FAUCET. ZURN Z1231 LAV CARRIER,	
RH	ROOF HYDRANT				1 1/2"	Woodford Manufacturing Company	SRH-MS		
SK	DROP-IN SINK	1/2"	1/2"	2"	1 1/2"	JUST MFG.	SF_1719_A_GR		
WC	WATER CLOSET	1"		3"	2"	Zurn Industries, LLC.	Z5955SS-EL OPEN FRONT SEAT	FLUSH VALVE - ZURN Z6000AV-WS1-DF DUAL FLOW MANUAL FLUSH VALVE, HERCULES 90241 JUMBO WAX RING, JONES CO2-993 ANCHOR BOLT PACKAGE,	MOUNT FLUSH CONTROL ON WIDE SIDE OF STALL FOR ACCESSIBILITY.

GENERAL INFORMATION (ALL FIXTURES):
-P-TRAP WITH CLEANOUT PLUG AND SINK CONTINUOUS WASTES: POLISHED CHROME-PLATED TUBULAR BRASS, 17 GAUGE WITH BRASS NUTS AND SLIP INSERTS.
-SS BRAIDED WATER SUPPLY: FLEXIBLE BRAIDED STAINLESS STEEL (SS) OUTER SHEATHING WITH REINFORCED PVC INNER TUBING.
-STOP VALVES: CHROME PLATED BRASS, QUARTER TURN ANGLE STOP VALVES.

FLOOR DRAIN SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION
FD	SIOUX CHIEF JOSAM OATEY	842 VEF 400J 72000	LIGHT DUTY ADJUSTABLE PVC WITH THREADED ADAPTER AND 6" SQUARE NICKEL BRONZE RING AND FASTENED GRATE
FD D.I.	SIOUX CHIEF	832-3DHNR	LIGHT DUTY ADJUSTABLE DUCTILE IRON WITH THREADED ADAPTER AND ROUND NICKEL BRONZE RING AND FASTENED GRATE

GENERAL INFORMATION (AS APPLICABLE):
1. REFER TO PLANS FOR DRAIN OUTLET SIZE.
2. LOAD CLASSIFICATIONS: LIGHT DUTY <2000 LBS, MEDIUM DUTY 2000 TO 4999 LBS, HEAVY DUTY 5000 TO 7499 LBS, EXTRA HEAVY DUTY 7500 TO 9999 LBS.

CLEANOUT SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION
FCO	ZURN SIOUX CHIEF MIFAB JAY R. SMITH JOSAM WATTS OATEY	Z1400 852 C1100 4231 55000 CO-200-RX-4 74000	CAST IRON OR PVC BODY, ROUND EXTRA HEAVY-DUTY CAST OR DUCTILE IRON TOP, POLYPROPYLENE OR ABS PLUG, ADJUSTABLE TO FINISH SURFACE.
WCO	ZURN SIOUX CHIEF MIFAB JAY R. SMITH JOSAM WATTS WADE	Z1470 (Z1469) 873 C1430 4472T 58540 (58600) CO-590-RD 8590 (8480R)	THREADED, COUNTERSUNK BRONZE OR POLYPROPYLENE CLEANOUT PLUG. (PROVIDE DRILLED TAP FOR CENTER SCREW AND STAINLESS STEEL COVER FOR FINISHED AREAS.)
YCO	WADE WATTS JOSAM JAY R. SMITH MIFAB ZURN	W-6000 / W-8300-MF CO-300-MF / CO-380 58850 4250 C1230 / C1300-MF Z1449 / Z1474	CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORIATED CAST IRON COVER WITH LIFTING DEVICE, VANDAL-PROOF SCREWS.

SPECIALTY PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	FIXTURE DESCRIPTION
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	WATTS BEECO FEBCO WILKINS	LF009QT OR LF909 FRP-LF LF860 375XL OR 975XL	LEAD FREE, PROVIDE STRAINER, SHUT-OFF VALVES AND TEST COCKS: INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO RECEPTOR APPROVED BY AUTHORITY HAVING JURISDICTION. MINIMUM 175 PSI WORKING PRESSURE.
TP	TRAP PRIMER	ZURN	Z1021WL-PC	WATER SAVER TRAP PRIMER
MV	MIXING VALVE	WATTS	LFMMV	SET TO 110 DEGREES MAX.

PIPE AND FITTINGS

	GATE VALVE
	GLOBE VALVE
	ANGLE GATE VALVE
	SOLENOID VALVE
	NON SLAM CHECK VALVE
	BUTTERFLY VALVE
	PLUG VALVE
	BALL VALVE
	TWO WAY CONTROL VALVE
	PRESSURE REGULATOR
	THREE WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	AUTOMATIC AIR VENT
	STRAINER, Y TYPE W/GATE VALVE OR HOSE BIBB
	FLEXIBLE CONNECTION
	JOINT
	EXPANSION JOINT
F	FLOW METER
	FLOW DIRECTION
	ELBOW BASE
	ELBOW REDUCING
	UNION
P	PRESSURE GAUGE WITH TRI-COCK
	PRESSURE INDICATOR
	TEST PLUG
T	TEMPERATURE INDICATOR
FS	FLOW SWITCH
	FLOW INDICATOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC STRAIGHT CROWN
	REDUCER, ECCENTRIC STRAIGHT INVERT
	AUTO FLOW BALANCING VALVE
	FLOOR DRAIN W/P-TRAP
	FLOOR CLEANOUT
	WALL CLEANOUT
	BACKFLOW PREVENTER
	LUBRICATED PLUG COCK
	HOSE BIBB W/VACUUM BREAKER
	CAPPED END
	SIDEWALL SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SIAMESE FIRE DEPARTMENT CONNECTION
	ALARM CHECK VALVE
	DELUGE VALVE
	PIPE SWAY BRACING
	PIPE ANCHOR SUPPORT
	BALANCING VALVE

ABBREVIATIONS

A	A
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
ACCU	AIR COOLED CONDENSING UNIT
ACL	ACETYLENE GAS
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AF	AIR FILTER
AFF	ABOVE FINISHED FLOOR
AFH	AIR FILTER, HIGH EFFICIENCY
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
AR	ACID RESISTANT
ASSY	ASSEMBLY
AUX	AUXILIARY
AV	AUTOMATIC AIR VENT
B	B
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSE POWER
BP	BACKFLOW PREVENTER
BS	BIRD SCREEN
C	C
C	CONDENSATE
CL	CENTER LINE
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHDR	CHEMICAL DRAIN
CHP	CHILLED WATER PUMP
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUED/CONTINUATION/CONTINUOUS
COTG	CLEAN OUT TO GRADE
CU	CONDENSING UNIT/COPPER
CV	CONSTANT VOLUME
CW	COLD WATER
D	D
DDC	DIRECT DIGITAL CONTROL
DG	DOOR GRILLE
DIA	DIAMETER
DIM	DIMENSION
DMPR	DAMPER
DN	DOWN
DPS	DIFFERENTIAL PRESSURE SWITCH
DR	DRAIN
DSD	DUCT SMOKE DETECTOR
DSW	DISTILLED WATER
DWG	DRAWING
E	E
EAT	ENTERING AIR TEMPERATURE
ED	EQUIPMENT DRAIN
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
ENT	ENTERING
ER	EXHAUST REGISTER
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EWS	EYE WASH/SHOWER STATION
F	F
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER/FLOOR DRAIN
FH	FUME HOOD
FL	FLOOR
FLEX	FLEXIBLE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FP	FIRE PUMP
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
G	G
GA	GAUGE
GIV	GRAVITY INTAKE VENTILATOR
GND	GROUND
GPM	GALLONS PER MINUTE
GRV	GRAVITY RELIEF VENTILATOR
H	H
HB	HOSE BIBB
HORIZ	HORIZONTAL
HP	HORSE POWER/HEAT PUMP
HTG	HEATING
HUMID	HUMIDISTAT
HWS	HOT WATER SUPPLY
HWB	HOT WATER BOILER
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
I	I
ID	INSIDE DIAMETER
IN	INCHES
INV EL	INVERT ELEVATION
K	K
KW	KILOWATT
L	L
LAB	LABORATORY
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND
LD	LINEAR DIFFUSER
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LFD	LAMINAR FLOW DIFFUSER
LP	LIQUID PROPANE
L/S	LITERS PER SECOND
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
M	M
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MB	MIXING BOX/MOP BASIN
MBH	THOUSAND BTU/HR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINUTE/MINIMUM
MM	MILLIMETERS
MS	MOTOR STARTER
N	N
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NUMBER
NOX	NITROGEN OXIDE
NTS	NOT TO SCALE
O	O
OA	OXYGEN
OAL	OUTSIDE AIR
OBD	OUTSIDE AIR LOUVER
OC	OPPOSED BLADE DAMPER
OS	ON CENTER
OS&Y	OVERFLOW SCUPPER
	OUTSIDE SCREW & YOKE
P	P
PD	PRESSURE DROP
POC	POINT OF CONNECTION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	R
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RC	RAIN CONDUCTOR
RD	ROOF DRAIN
REF	REFERENCE
RF	RETURN FAN
RL	RAIN LEADER
RM	ROOM
RTN	RETURN
S	S
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SAN	SANITARY
SAR	SUPPLY AIR REGISTER
SD	SMOKE DAMPER
SD/FD	COMBI SMOKE DAMPER/FIRE DAMP.
SF	EXHAUST
SH	SHEET
SP	STATIC PRESSURE
SQ.FT	SQUARE FEET
SST	STAINLESS STEEL
T	T
TCU	TERMINAL CONTROL UNIT
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TP	TRAP PRIMER
TYP	TYPICAL
U	U
UC	UNDERCUT
V	V
VENT	VENT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THRU ROOF
W	W
W/	WITH
W/O	WITHOUT
WCO	WALL CLEANOUT
WC	WATER COLUMN
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTORS
WR	WATER RISER
WTR	WATER

NOTE:
THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET. THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

LINETYPES

——— – ———	POTABLE COLD WATER
——— – – ———	POTABLE HOT WATER
——— – – – ———	POTABLE HOT WATER RETURN
— — — — — —	VENT

PIPE TAGS

CW	POTABLE COLD WATER
HW	POTABLE HOT WATER
HWR	POTABLE HOT WATER RETURN
V	VENT
SS	SANITARY SEWER
GW	GREASE WASTE
G	NATURAL GAS
VTR	VENT THROUGH ROOF

SANITARY SEWER GENERAL NOTES

SANITARY SEWER GENERAL NOTES

1. PROVIDE CLEANOUTS AT LOCATIONS AND WITH CLEARANCES AS REQUIRED BY THE CODE NOT EXCEEDING 100 FEET IN HORIZONTAL RUNS AT EACH CHANGE OF DIRECTION, VERTICAL OR HORIZONTAL, GREATER THAN 45 AT THE BASE OF EACH WASTE OR VENT STAC 5 FEET AFF. PROVIDE WALL CLEANOUTS IN LIEU OF FLOOR CLEANOUTS WHEREVER POSSIBLE. ALL INTERIOR CLEANOUTS SHALL BE ACCESSIBLE FROM WALLS OR FLOORS.

4. SEWER PIPE SHALL BE INSTALLED NO LESS THAN 6" BELOW THE FROST LINE.

3. MAINTAIN MINIMUM OF 10 FEET CLEARANCE BETWEEN ANY VTR AND OUTSIDE AIR INTAKES. WHERE HORIZONTAL CLEARANCE CANNOT BE PROVIDED, EXTEND VENTS A MIN OF 24" ABOVE EACH OUTSIDE AIR INTAKE.

4. VTR'S ROOF PENETRATIONS, WATER PROOFING AND FLASHINGS SHALL BE PROVIDED BY ROOF CONTRACTOR.

5. ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. TEST ALL SEWER AND VENT SYSTEMS IN PRESENCE OF OWNER'S REPRESENTATIVE.

6. INVERT ELEVATION SHOWN BASED ON 100.0 FT, FF ELEVATION, REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATIONS.

7. SEWER PIPE SHALL BE INSTALLED NO LESS THAN 6" BELOW THE FROST LINE.

DOMESTIC WATER GENERAL NOTES

DOMESTIC WATER GENERAL NOTES

1. CUTOFF VALVES AND STOPS SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS AND AT FIXTURE CONNECTIONS.

2. TEST ALL WATER SYSTEM IN PRESENCE OF OWNER'S REPRESENTATIVE AT MIN. 100 PSIG FOR 8 HOURS. SANITARY, WASTES, AND VENTS SHALL BE TESTED WITH 10' HEAD OF WATER FOR 8 HOURS WITH LEVEL OF WATER REMAIN UNCHANGED.

3. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.

4. INSTALL ALL WATER PIPING SYSTEMS SO THAT THEY WILL NOT BE SUBJECT TO ANY UNDUE STRAINS OR STRESSES. PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT.

5. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR CEILING ASSEMBLY SHALL BE INSTALLED AND SEALED TO MAINTAIN FIRE RATING WITH U.L. LISTED ASSEMBLIES, MATERIALS AND SEALANTS.

6. BELOW GROUND PIPE SHALL BE INSTALLED NO LESS THAN 6" BELOW FROST LINE. REFER TO STRUCTURAL DETAILS FOR FOUNDATION PENETRATION.

7. DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO BE SCALED FOR DIMENSIONS.

8. COORDINATE LOCATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.

9. ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR, WITHOUT EXTRA COST FOR THE OWNER.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A WATER FLOW AND PRESSURE TEST FOR EVALUATING INCOMING DOMESTIC SERVICE PRESSURES.

11. WHERE STREET WATER MAIN PRESSURES FLUCTUATE, THE BUILDING WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED FOR MINIMUM PRESSURE AVAILABLE. WHEREVER WATER PRESSURE FROM THE STREET MAIN OR OTHER SOURCE OF SUPPLY IS LESS THAN 60 PSI, A WATER PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED ON THE BUILDING WATER SUPPLY SYSTEM. WHERE WATER PRESSURE WITHIN A BUILDING EXCEEDS 80 PSI STATIC, AN APPROVED WATER-PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED TO REDUCE THE PRESSURES TO BELOW 80 PSI.

IF ANY DISCREPANCIES ARE FOUND ON THE PLANS, THE PLUMBING CONTRACTOR SHALL INSTALL THE MORE CONSERVATIVE SPECIFICATION AND CALL ENGINEER FOR CLARIFICATION.

PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT SITE TO EXAMINE SITE CONDITIONS. CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND REUSE AND RECONNECT TO EXISTING SERVICE WHERE POSSIBLE. ALL REUSED PIPING AND EQUIPMENT MUST COMPLY WITH STATE AND LOCAL PLUMBING CODE.

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.

GREASE INTERCEPTOR SIZING

Zurn Green Turtle Sizing Method Module

Fixture and Dishwasher Information

Fixture Description	Number of Fixture Compartments	Is the effluent emulsified?	Dimensions of each compartment (inches) Length	Width	Height	Output Volume (Gallons)	Proceptor Sizing to meet 100ppm
3-Comp Sink	3	No	26	20	14	71	355
1-Comp Prep Sink	1	No	18	18	14	15	74
Dirty Dish Table	1	No	20	20	15	19	98
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
Mop Sink	1					1	5
Floor Drain	3					3	15
						109 (Total Fixture Volume)	546 (Proceptor Sizing to meet 100 ppm)

Dishwasher Make & Model: Auto Chlor A6t

Number of washes per hour: 38

Dishwasher Peak Rate of Drain Flow (GPM): 1.09 (If unknown, 38 gpm standard)

65.4 Proceptor Dishwasher Sizing

Total Proceptor Volume (Fixture + Dishwasher) 611

LMHT Project No. 22160.00

INRD national restaurant designers
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A Division of LMHT Associates

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: PLUMBING NOTES AND SCHEDULES

NELSON RAY THOMPSON JR. LICENSE No. 53583 STATE OF FLORIDA PROFESSIONAL ENGINEER
8/12/2022

Revisions

THRU ADDENDUM " "

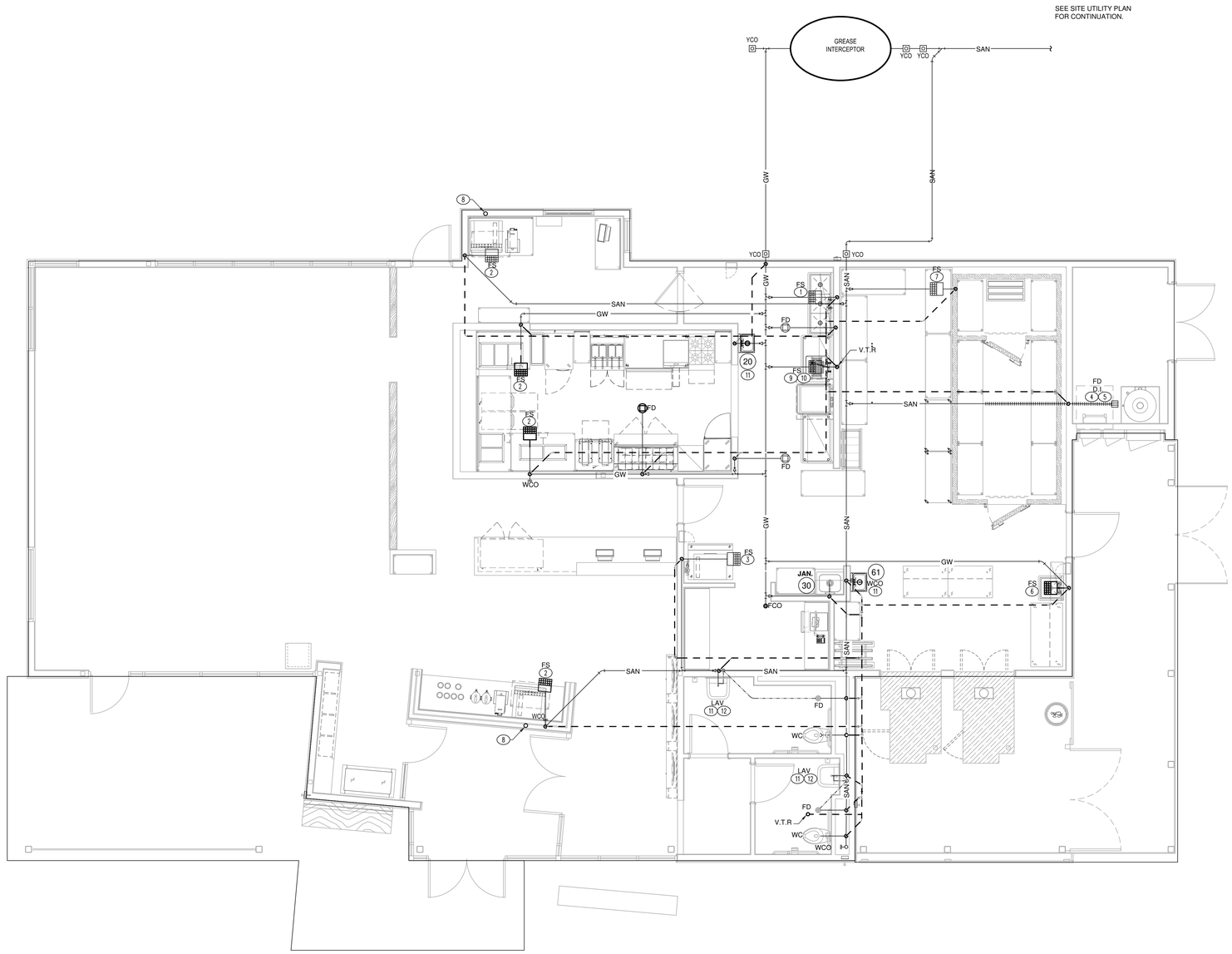
PROJECT DATE 08/12/2022

Drawn By JCL

Checked By SDS

Sheet No. **P001**

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\P001.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:52am



GENERAL NOTES:

1. SEE SHEET P001 FOR ALL GENERAL NOTES.
2. SEE RISER DIAGRAMS FOR ALL PIPE SIZES NOT SHOWN.
3. FIELD VERIFY ALL INVERTS BEFORE THE START OF ANY WORK.
4. SEE FOUNDATION PLANS FOR PIPES THROUGH WALLS AND FOOTING DETAILS.

CONSTRUCTION NOTES:

1. ROUTE 2" SINK COMPARTMENT DRAINS INDIVIDUALLY TO FLOOR SINK. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPE.
2. ROUTE EQUIPMENT DRAIN(S) DOWN TO FLOOR RECEPTOR. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPE.
3. ROUTE ICE MACHINE DRAIN PIPING INDIRECTLY AT 1/8" PER/FT SLOPE TO FLOOR SINK. TERMINATE WITH AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPING.
4. ROUTE WATER HEATER T&P RELIEF VALVE INDIRECTLY TO FLOOR DRAIN AND TERMINATE WITH AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPE.
5. THE PLUMBING CONTRACTOR SHALL PROVIDE CAST IRON P-TRAP AND 10' MINIMUM OF CAST IRON WASTE PIPING LEADER.
6. ROUTE 1 1/2" SINK COMPARTMENT DRAIN TO FLOOR SINK. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPE.
7. 1" TRAPPED CONDENSATE PIPING FROM COOLER/FREEZER CONDENSING COILS. PROVIDE AND INSTALL HEAT TRACE TAPE (10 W/LIN. FT.) ON PIPING WITHIN FREEZER. SLEEVE AND SEAL THRU COOLER/FREEZER WALL AT 4" ABOVE FINISHED FLOOR. TERMINATE INDIRECTLY OVER FLOOR SINK WITH AIR GAP TWICE THE DIAMETER OF DRAIN PIPE.
8. ROUTE SYRUP LINES OVERHEAD, DOWN INSIDE WALL IN A PVC CHASE AND PENETRATE BELOW EQUIPMENT AND ROUTE TO SODA SYSTEM. COORDINATE WITH BEVERAGE VENDOR.
9. P.C. SHALL PROVIDE DRAIN FROM DISHWASHER TO FLOOR SINK. TERMINATE WITH 2" AIR GAP (MIN.). VERIFY HOOD DRAIN SIZE WITH HOOD MANUFACTURER.
10. P.C. SHALL PROVIDE COPPER WASTE PIPING FROM DIRTY DISHTABLE TO WASTE RECEPTORS.
11. P.C. SHALL PROVIDE LAVATORY/HAND SINK AND TRUEBRO (OR EQUAL)PIPING PROTECTION ON LAVATORY/HAND SINK EXPOSED HOT WATER, COLD WATER, AND DRAIN PIPING BELOW SINK.
12. REFER TO DETAIL 10/P501 FOR GRAY WATER TRAP PRIMER DETAIL.

IF ANY DISCREPANCIES ARE FOUND ON THE PLANS, THE PLUMBING CONTRACTOR SHALL INSTALL THE MORE CONSERVATIVE SPECIFICATION AND CALL ENGINEER FOR CLARIFICATION.

PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT SITE TO EXAMINE SITE CONDITIONS. CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND REUSE AND RECONNECT TO EXISTING SERVICE WHERE POSSIBLE. ALL REUSED PIPING AND EQUIPMENT MUST COMPLY WITH STATE AND LOCAL PLUMBING CODE.

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.

1 SANITARY PLAN
1/4" = 1'-0"

LMHT Project No. 22160.00

INRD national restaurant designers
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A Division of LMHT Associates

NELSON RAY THOMPSON JR. No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER
8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: SANITARY PLAN

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JCL

Checked By
SDS

Sheet No.
P101

Drawing File: C:\Users\chudson\Appdata\Local\Temp\AcPublish_9472\P101.dwg
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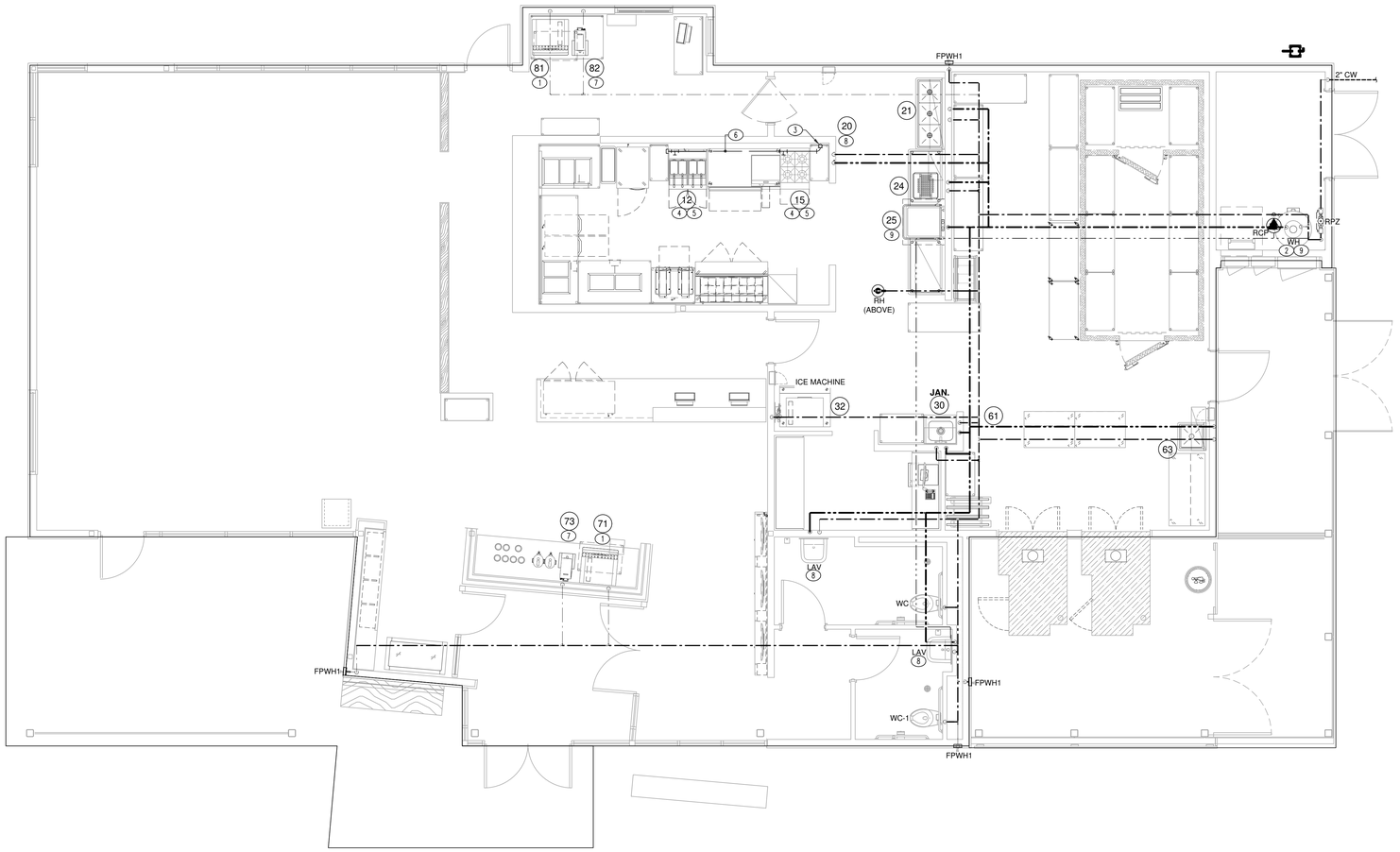

1 WATER & GAS PLAN

1/4" = 1'-0"

GENERAL NOTES:

1. SEE SHEET P001 FOR ALL GENERAL NOTES.
2. SEE RISER DIAGRAMS SHEET FOR ALL PIPE SIZES NOT SHOWN.
3. SEE FOUNDATION PLANS FOR PIPES THROUGH WALLS AND FOOTING DETAILS.
4. PROVIDE BUILDING PRESSURE RELIEF VALVE IF THE BUILDING PRESSURE IS 80 PSI OR ABOVE. SET PRV AT 75 PSI (MAX.)

CONSTRUCTION NOTES:

1. PROVIDE 1/2" CW LINE TO SODA MACHINE. COORDINATE WITH BEVERAGE COMPANY FOR CONNECTIONS TO TAKE PLACE INSIDE THE CABINET. PROVIDE IN-LINE ASSE 1022 BACKFLOW PREVENTER AND SHUT OFF VALVE.
2. GAS PIPING FROM ABOVE CEILING TO WATER HEATER. SEE DETAIL 12/P501 AND GAS RISER.
3. INSTALL ANSUL SUPPLIED ELECTRIC GAS VALVE, VALVE PROVIDED WITH HOOD ANSUL SYSTEM PACKAGE. FIELD COORDINATE. MOUNT BELOW CEILING. SECURE GAS TO ADJACENT WALLS AS REQUIRED.
4. PROVIDE AND INSTALL GAS CONNECTIONS TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. PROVIDE 6" DIRT LEG, UNION, REGULATOR AND GAS COCK ON OR BEFORE ALL GAS FIRED EQUIPMENT.
5. PC SHALL INSTALL 18" GAS FLEX HOSE FLEXIBLE CONNECTION TO ALLOW EQUIPMENT TO BE MOVED FOR CLEANING WITH QUICK DISCONNECT (PROVIDED BY F.EC).
6. PC SHALL ROUTE GAS HEADER AT 12" A.F.F. TO COOKING EQUIPMENT AS SHOWN ON PLAN. SEE GAS RISER FOR BRANCH PIPE SIZES. SECURE GAS TO ADJACENT WALLS AS REQUIRED.
7. PC SHALL PROVIDE CUT-OFF VALVE W/ QUICK DISCONNECT ACCESSIBLE FOR CLEANING.
8. PROVIDE MIXING VALVE BELOW EACH HAND SINK/LAVATORY, SET TEMPERATURE TO MAINTAIN 110 (MAX.) . SEE DETAIL 10/P501.
9. PC SHALL INSTALL CPVC PIPING AND CONNECTIONS TO WATER HEATER, DISHWASHER AND ALL OTHER EQUIPMENT PER ALL LOCAL AND STATE PLUMBING CODE REQUIREMENTS AS CONCERNING CPVC PIPING.

IF ANY DISCREPANCIES ARE FOUND ON THE PLANS, THE PLUMBING CONTRACTOR SHALL INSTALL THE MORE CONSERVATIVE SPECIFICATION AND CALL ENGINEER FOR CLARIFICATION.

PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT SITE TO EXAMINE SITE CONDITIONS. CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND REUSE AND RECONNECT TO EXISTING SERVICE WHERE POSSIBLE. ALL REUSED PIPING AND EQUIPMENT MUST COMPLY WITH STATE AND LOCAL PLUMBING CODE.

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.

LMHT Project No. 22160.00

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NEIL SCOTT RAY THORNTON JR. LICENSE No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055

Drawing: WATER AND GAS PLAN

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JCL

Checked By
SDS

Sheet No.
P102

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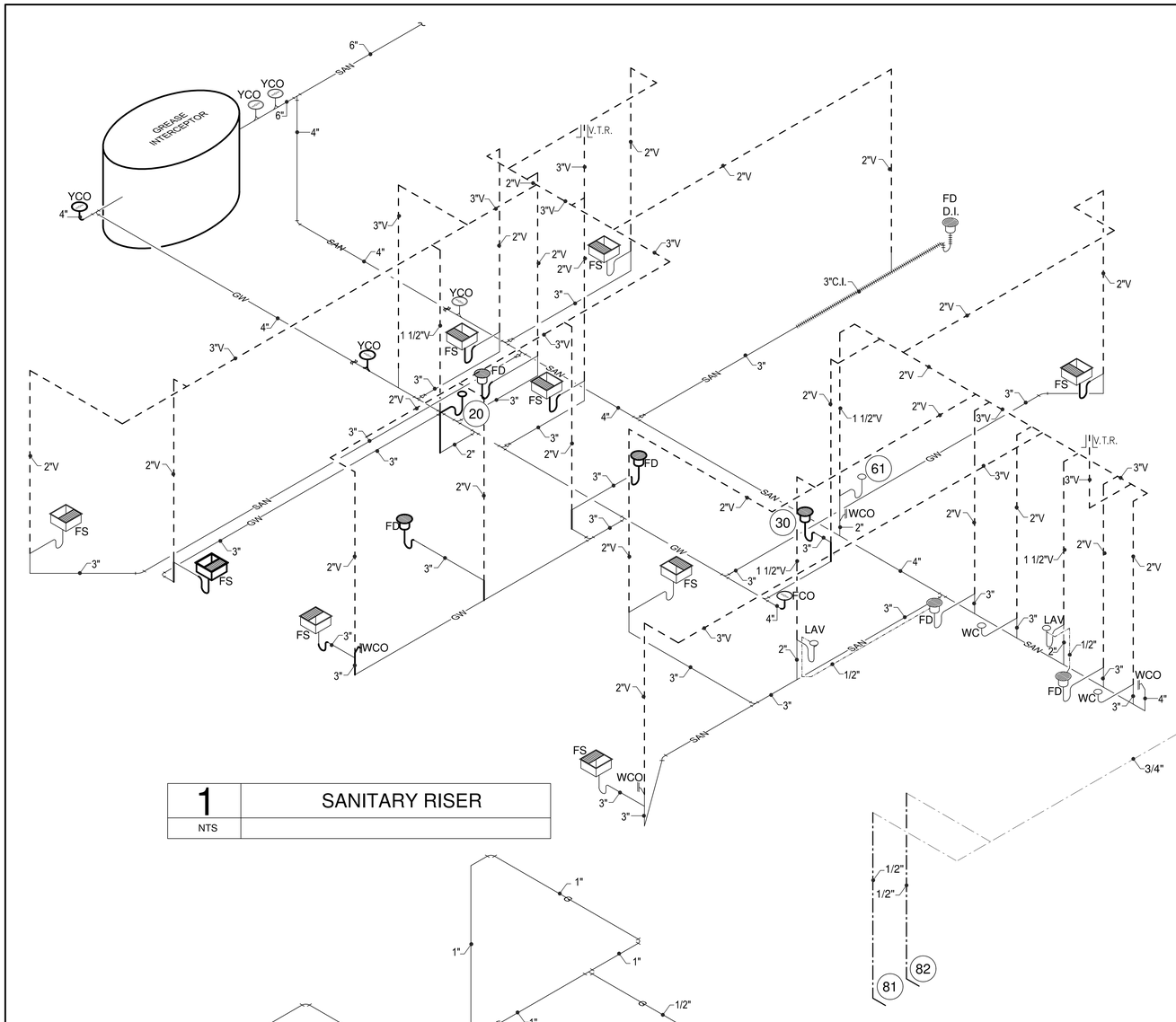
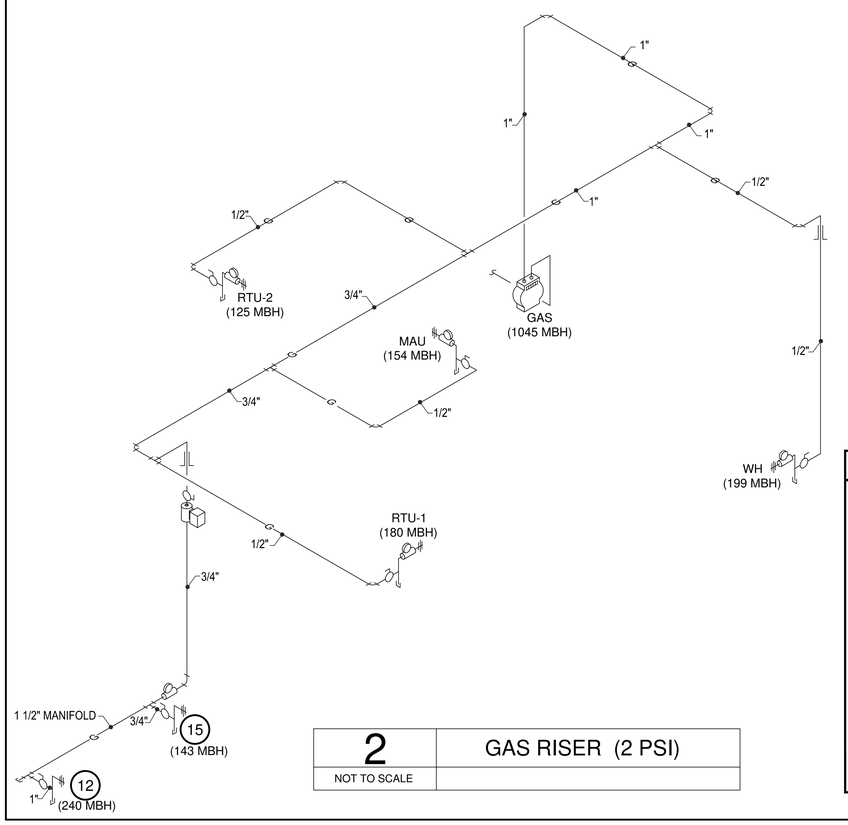


1 SANITARY RISER

NTS



2 GAS RISER (2 PSI)

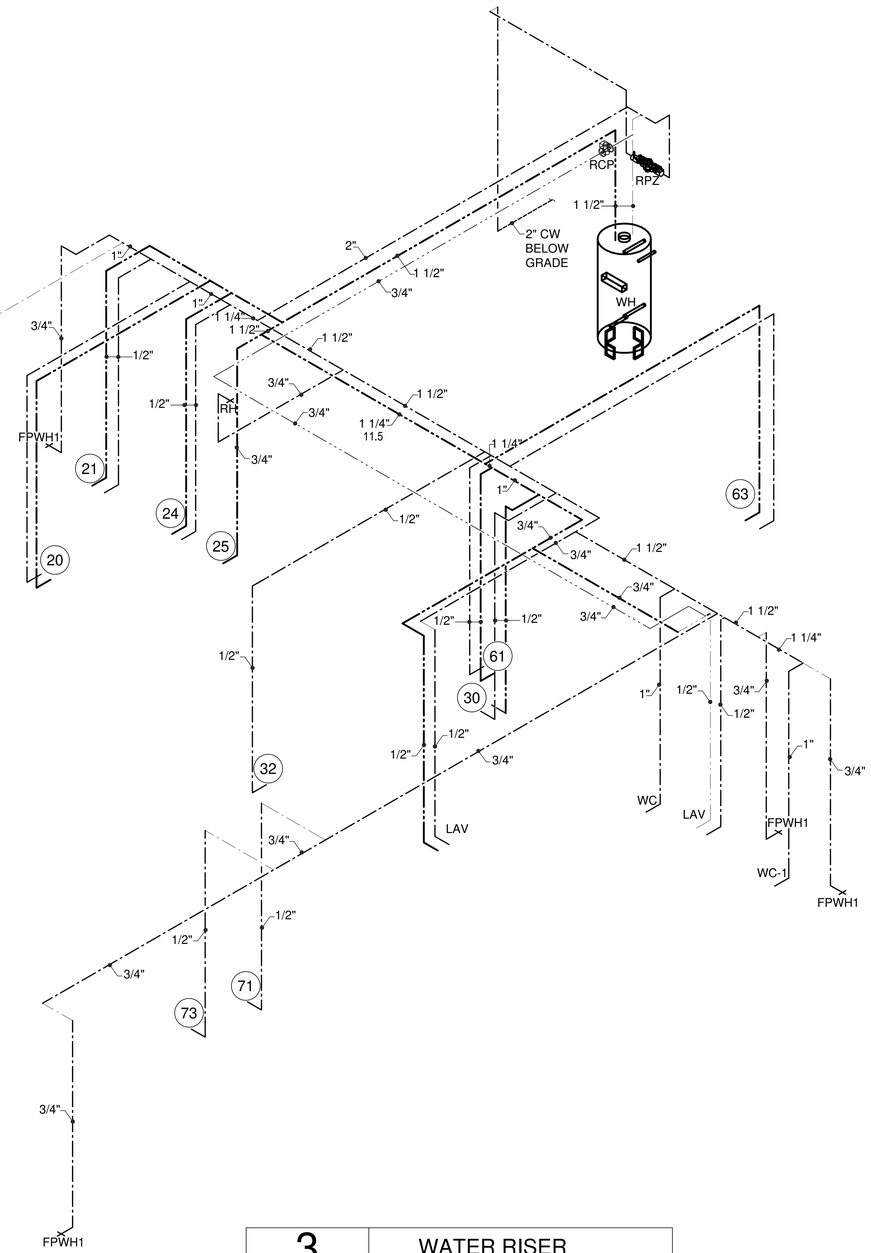
NOT TO SCALE

GAS DEMAND

ITEM	IND. DEMAND
#12 FRYER	244.00
#15 4-OPEN BURNER	143.00
SUBTOTAL KITCHEN	387.00
RTU-1	180.00
RTU-2	125.00
MAU	154.00
SUBTOTAL HEATING	459.00
A.O. SMITH CYCLONE	199.00
SUBTOTAL WTR. HTR.	199.00
TOTAL DEMAND	1045.00
MOST REMOTE FIXTURE DIST.(FT.)	125'
BUILDING GAS MAIN SIZE	1"

NOTES:

1. ALL VALVES SHALL BE SAME SIZE AS PIPING SERVED (MIN.).
2. ALL GAS PIPE SIZES BASED ON NATURAL GAS: 2.0 PSI (MAX.), 1.0 PSI PRESSURE DROP 0.6 SPECIFIC GRAVITY. PC SHALL VERIFY THAT GAS SYSTEM PRESSURE DOES NOT EXCEED ALLOWABLE LIMITS OF GAS UTILIZATION EQUIPMENT. PC SHALL SELECT AND PROVIDE INDIVIDUAL PRESSURE REGULATORS FOR APPLIANCES TO REDUCE PRESSURE FROM 2 PSI TO THE REQUIRED UTILIZATION PRESSURE OF EQUIPMENT, UNLESS NOTED OTHERWISE. (SEE NAMEPLATE DATA). REGULATORS (MAXITROL SERIES 325) SHALL BE USED FOR ALL EQUIPMENT AND INSTALLED IN A HORIZONTAL POSITION. REGULATORS INSTALLED INSIDE BUILDING ARE TO BE PROVIDED WITH VENT LIMITING DEVICES (MAXITROL SERIES 12A39) OR APPROVED EQUAL.
3. PC SHALL INSTALL FLEXIBLE GAS HOSE WITH QUICK DISCONNECTS (PROVIDED BY FEC) BETWEEN GAS PIPING AND APPLIANCES. FLEXIBLE HOSE SHALL BE SAME SIZE AS BRANCH PIPE.
4. CONTRACTOR SHALL RUN FULL DIAMETER PIPE FROM GAS METER. ANY REDUCTION IN SIZE WILL NOT BE ACCEPTABLE.
5. COORDINATE WITH LOCAL UTILITY TO ENSURE 2.0 PSI IS AVAILABLE BEFORE THE START OF ANY WORK. IF NOT, THEN CONSULT ENGINEER FOR PROPER SIZING FOR AVAILABLE PRESSURE.



3 WATER RISER

NOT TO SCALE

LMHT Project No. 22160.00

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ANDERSON RAY THORNTON JR.
LICENSED
No. 50383
STATE OF FLORIDA
PROFESSIONAL ENGINEER
8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: PLUMBING RISERS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JCL

Checked By
SDS

Sheet No.
P103

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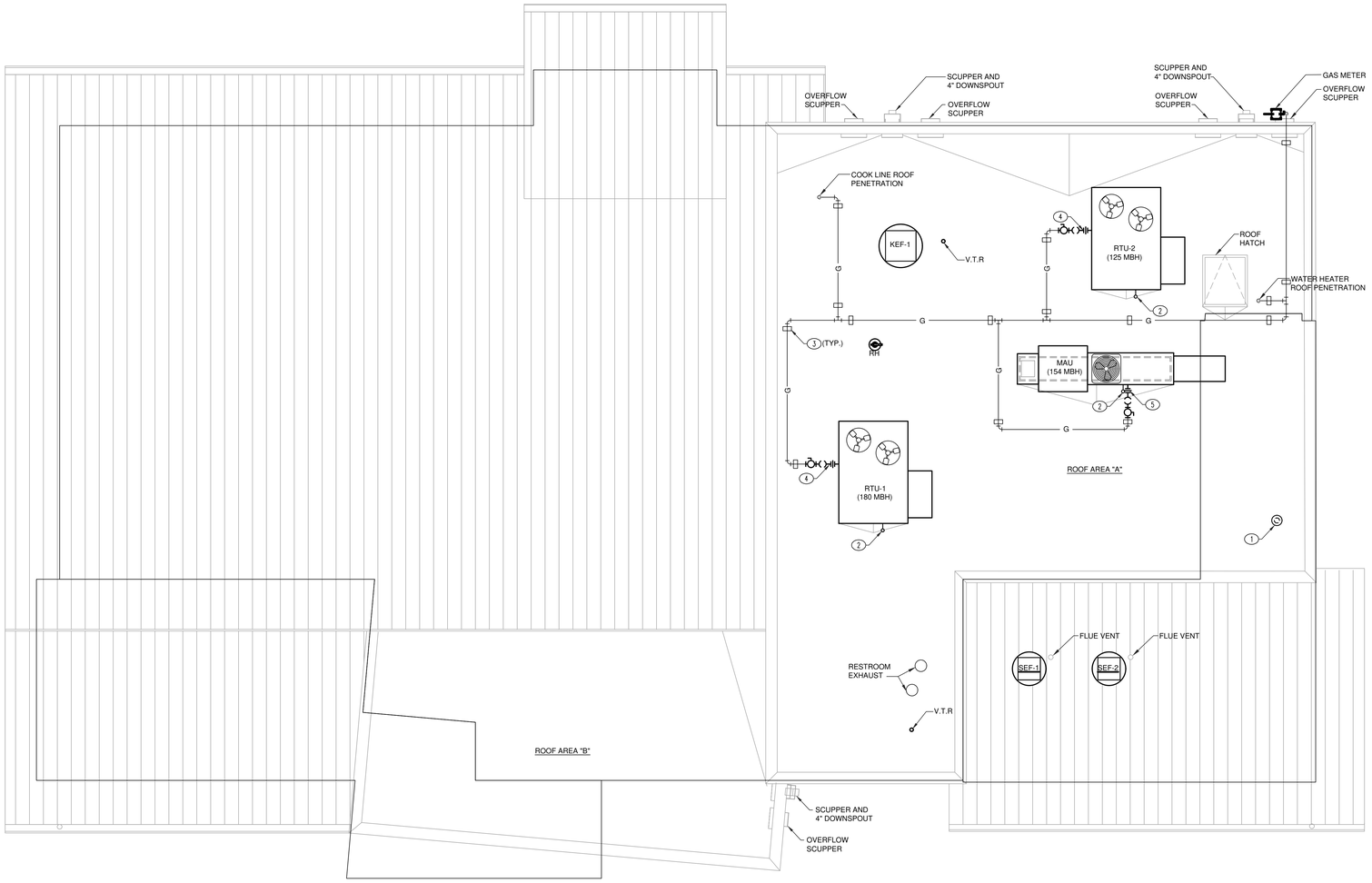

GENERAL NOTES:

A. SEE SHEET P001 FOR ALL GENERAL NOTES.

B. ALL PENETRATIONS THRU ROOF SHALL BE BY GENERAL CONTRACTOR AS PER ROOF MANUFACTURER'S STANDARD.

C. DO NOT SCALE DRAWING. ALL PLUMBING VENT OUTLETS THROUGH ROOF SHALL TERMINATE AT PARAPET HEIGHT (MIN.).

D. ALL PLUMBING ON ROOF MUST BE PERMANENTLY SECURED AND ABLE TO WITH STAND HIGH WIND LOADS.

CONSTRUCTION NOTES:

1. PC SHALL ROUTE WATER HEATER CONCENTRIC VENT SYSTEM TO ROOF AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. PIPING SHALL NOT EXHAUST WITHIN 10'-0" FROM ANY FRESH AIR INTAKE. MINIMUM DISTANCE FROM PARAPET WALL SHALL BE 2'-0". OFFSET AS REQUIRED PER MANUFACTURERS RECOMMENDATION.
2. PC SHALL INSTALL SCH. 40 1" PVC CONDENSATE DRAIN LINE FROM EACH RTU AND ROUTE TO SPLASH BLOCK ON ROOF. SEE DETAIL 8/P501.
3. PIPE SUPPORTS SPACED AT EVERY 10' AND AT ALL CHANGES IN DIRECTION (TYP.). SEE DETAIL 9/P501
4. PC SHALL PROVIDE/INSTALL UNION, GAS COCK, REGULATOR AND DRIP LEG AT EACH GAS CONNECTION.
5. HEATED MAKE-UP AIR GAS CONNECTION, SEE THIS SHEET AND HOOD SHEETS.

IF ANY DISCREPANCIES ARE FOUND ON THE PLANS, THE PLUMBING CONTRACTOR SHALL INSTALL THE MORE CONSERVATIVE SPECIFICATION AND CALL ENGINEER FOR CLARIFICATION.

PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT SITE TO EXAMINE SITE CONDITIONS. CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND REUSE AND RECONNECT TO EXISTING SERVICE WHERE POSSIBLE. ALL REUSED PIPING AND EQUIPMENT MUST COMPLY WITH STATE AND LOCAL PLUMBING CODE.

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.

1 PLUMBING ROOF PLAN

1/4" = 1'-0"

LMHT Project No. 22160.00

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8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: PLUMBING ROOF PLAN

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JCL

Checked By
SDS

Sheet No.
P201

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_8472\P201.dwg
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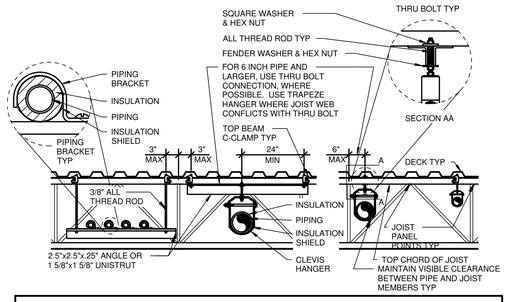
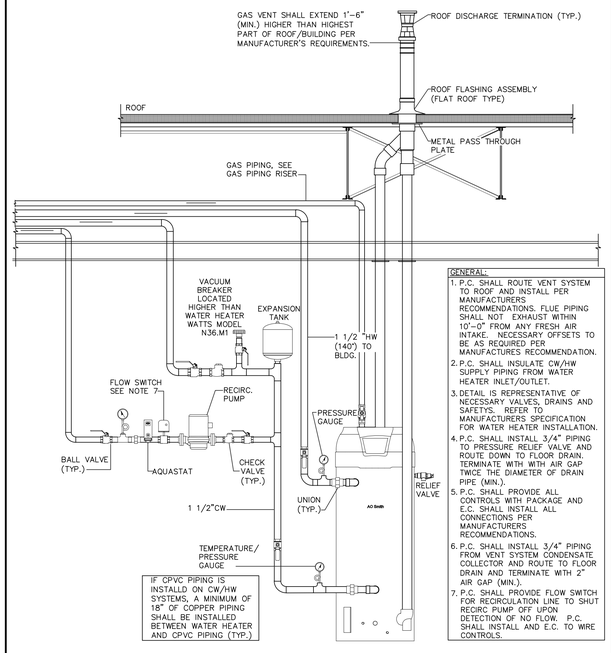


NOTE:
1. UTILIZE FOR ALL PIPING EXCEPT SPRINKLER, ROOF DRAIN, AND REFRIGERATION PIPING.
2. SPACE HANGERS AND SUPPORTS IN ACCORDANCE WITH SPECIFICATIONS.
3. LOCATE HANGERS WITHIN 3 INCHES OF JOIST PANEL POINTS U.N.O.
4. DO NOT SUPPORT PIPING FROM BOTTOM CHORD OF BAR JOISTS.
5. INDIVIDUAL PIPES 3 INCH AND SMALLER NOT REQUIRED TO BE WITHIN 3 INCHES OF PANEL POINT.
6. FOR PIPE RUNNING PARALLEL TO JOISTS, ATTACH TRAPEZE BEAM CLAMPS TO JOISTS ON EACH SIDE OF PIPE TYP.
7. TRAPEZE HANGERS AND ALL THREAD RODS ARE SIZED TO CARRY (MAX) 6 - 3 INCH DIAMETER COPPER PIPES FULL OF WATER (37.62 LBS/FT) OR EQUIVALENT. IF LOAD EXCEEDS MAXIMUM, CONTACT THE EOR FOR PROPER SIZING.

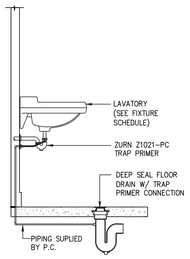
11 PIPING SUPPORT
NTS



GENERAL:
1. P.C. SHALL ROUTE VENT SYSTEM TO ROOF AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. FLUE PIPING SHALL NOT EXHAUST WITHIN 10'-0" FROM ANY FRESH AIR INTAKE. NECESSARY OFFSETS TO BE AS REQUIRED PER MANUFACTURES RECOMMENDATION.
2. P.C. SHALL INSULATE CW/HW SUPPLY PIPING FROM WATER HEATER INLET/OUTLET.
3. DETAIL IS REPRESENTATIVE OF NECESSARY VALVES, DRAINS AND SAFETYS. REFER TO MANUFACTURERS SPECIFICATION FOR WATER HEATER INSTALLATION.
4. P.C. SHALL INSTALL 3/4" PIPING TO PRESSURE RELIEF VALVE AND ROUTE DOWN TO FLOOR DRAIN. TERMINATE WITH WITH AIR GAP TWICE THE DIAMETER OF DRAIN PIPE (MIN.).
5. P.C. SHALL PROVIDE ALL CONTROLS WITH PACKAGE AND E.C. SHALL INSTALL ALL CONNECTIONS PER MANUFACTURERS RECOMMENDATIONS.
6. P.C. SHALL INSTALL 3/4" PIPING FROM VENT SYSTEM CONDENSATE COLLECTOR AND ROUTE TO FLOOR DRAIN AND TERMINATE WITH 2" AIR GAP (MIN.).
7. P.C. SHALL PROVIDE FLOW SWITCH FOR RECIRCULATION LINE TO SHUT RECIRC PUMP OFF UPON DETECTION OF NO FLOW. P.C. SHALL INSTALL AND E.C. TO WIRE CONTROLS.

12 WATER HEATER DETAIL
NTS

13 NOT USED
NTS



6 TRAP PRIMER (TP) CONNECTION
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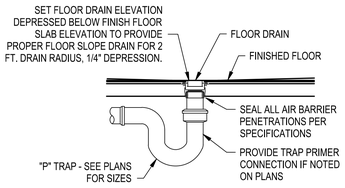

7 FLOOR DRAIN
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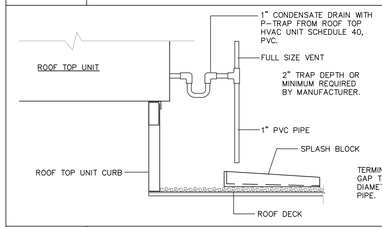

8 RTU CONDENSATE DETAIL
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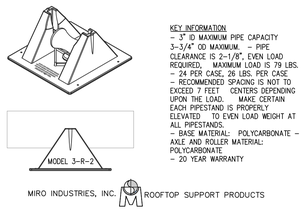

9 GAS PIPE SUPPORTS
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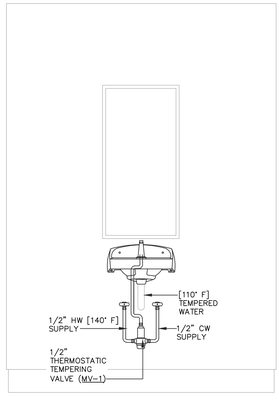

10 MIXING VALVE DETAIL
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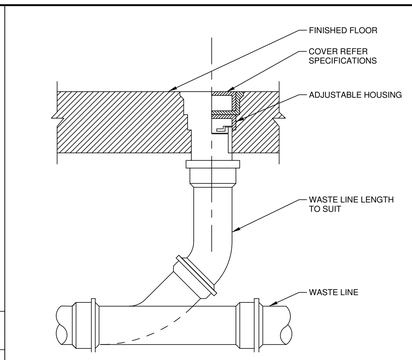
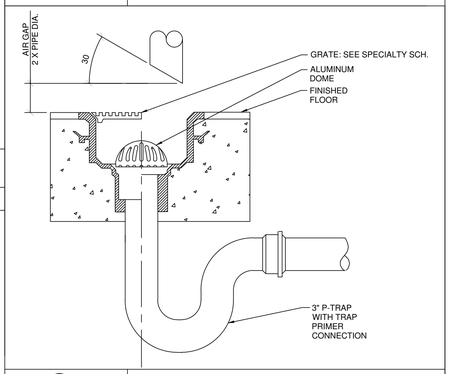


2 FLOOR CLEAN-OUT (FCO)
NTS



3 FLOOR SINK (FS)
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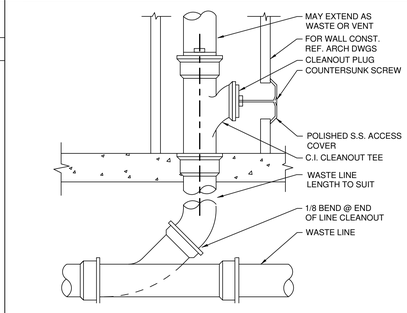

4 WALL CLEAN-OUT (WCO)
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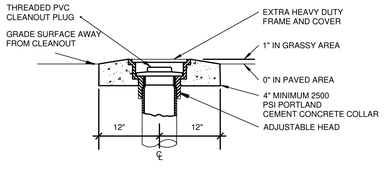


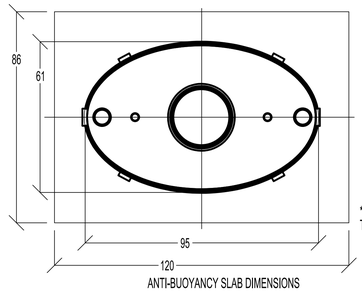
5 YARD CLEAN-OUT (YCO)
NTS

GMC/OMC/SMC 500, 750, 1000, 1300, 1500 INSTALLATION DRAWING

NOTES:
1. REFER TO INSTALLATION PROCEDURE AND INSTALLATION CHECKLIST.
2. PROCEPTOR SEPARATORS MUST BE INSTALLED IN ACCORDANCE WITH ALL RELEVANT FEDERAL, PROVINCIAL/STATE, AND LOCAL CODES INCLUDING LOCAL PLUMBING CODE.
3. US PATENT # 5,746,912; CDN PATENT # 2,195,822

TABLE 2

SEPARATOR MODEL	INLET INVERT TO TANK BOTTOM (H*)	DRY WEIGHT OF TANK
GMC/OMC/SMC 500	32"	500 lbs
GMC/OMC/SMC 750	45"	575 lbs
GMC/OMC/SMC 1000	59"	650 lbs
GMC/OMC/SMC 1300	74"	745 lbs
GMC/OMC/SMC 1500(1)	85"	805 lbs

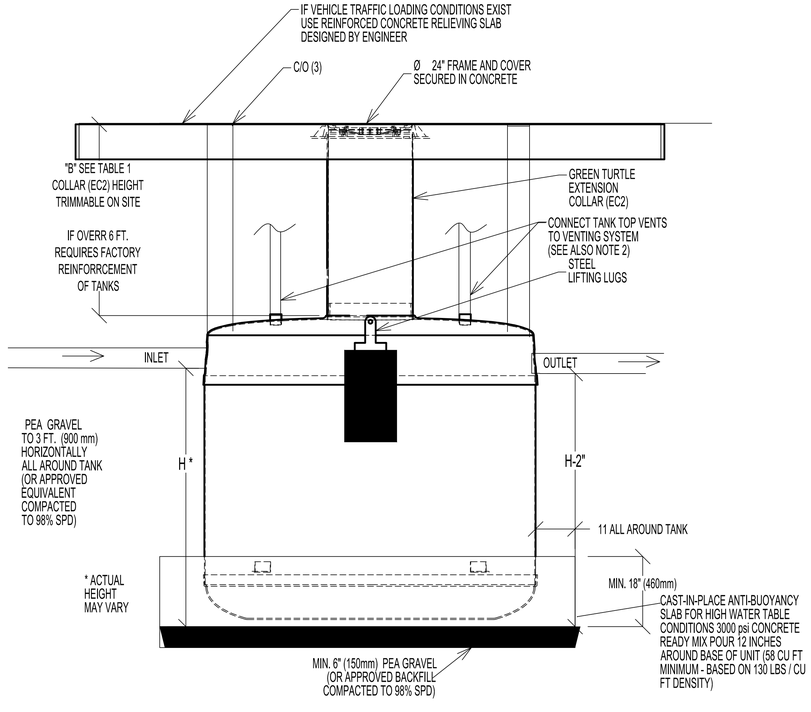


ANTI-BUOYANCY SLAB DIMENSIONS

TABLE 1

BURIAL DEPTH	B
Max.	6 FT.
Min.with Traffic	18"
Min. no Traffic**	12"

** ESTIMATED MINIMUM SPACE REQUIRED TO FIT VENT ELBOWS UNDER FLOOR



1 GREEN TURTLE GREASE INTERCEPTOR INSTALL
NOT TO SCALE

Drawing File: C:\Users\chudson\oppdata\local\temp\AcPublish_9472\P501.dwg
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Plotted Date: Aug 10, 2022 - 8:52pm

LMHT Project No. 22160.00

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8/12/2022

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RIB CRIB GEN 6 PROTOTYPE
Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055
Drawing: PLUMBING DETAILS

Revisions
THRU ADDENDUM " "

PROJECT DATE 08/12/2022
Drawn By JCL
Checked By SDS
Sheet No. **P501**

MECHANICAL

	SUPPLY AIR DUCT, SECTION
	RETURN AIR DUCT, SECTION
	EXHAUST AIR DUCT, SECTION
OA	OUTDOOR AIR INTAKE, SECTION
20x12	DUCT, WIDTH X DEPTH, PLAN
R	INCLINE DUCT RISE
D	INCLINE DUCT DROP
	FLEXIBLE CONNECTION
	LONG RADIUS ELBOW
	VOLUME DAMPER
	SQUARE ELBOW W/ TURNING VANES
	BRANCH TAKEOFF WITH ADJUSTABLE EXTRACTOR
	SPLITTER DRAIN
T	THERMOSTAT
S	SPACE TEMPERATURE SENSOR
	EXHAUST AIR INLET
	CEILING RETURN INLET
	CEILING SUPPLY DIFFUSER
	DUCT WITH INTERNAL LINING
E	ELECTRIC DUCT HEATER
	SQUARE OR RECTANGULAR BRANCH TAKEOFF WITH MANUAL BALANCING DAMPER
	ROUND BRANCH TAKEOFF WITH SCOOP EXTRACTOR AND MANUAL BALANCING DAMPER
	CONICAL TEE WITH ROUND DUCTWORK
SP	STATIC PRESSURE SENSOR
	UNIT HEATER
SD	SMOKE DETECTOR
	SUPPLY AIR FLOW
	RETURN AIR OR EXHAUST AIR FLOW
	DOOR UNDER CUT
	FIXED LOUVER W/BIRD SCREEN
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
	BACKDRAFT DAMPER
	FIRE DAMPER
M	MOTORIZED DAMPER
	POINT OF CONNECTION
PT	PRESSURE TRANSMITTER
A	AIR OUTLET
CO2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
NOX	NITROGEN OXIDE SENSOR

PIPE AND FITTINGS

	GATE VALVE
	GLOBE VALVE
	ANGLE GATE VALVE
S	SOLENOID VALVE
	NON SLAM CHECK VALVE
	BUTTERFLY VALVE
	PLUG VALVE
	BALL VALVE
	TWO WAY CONTROL VALVE
	PRESSURE REGULATOR
	THREE WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	AUTOMATIC AIR VENT
	STRAINER, Y TYPE W/GATE VALVE OR HOSE BIBB
	FLEXIBLE CONNECTION
	JOINT
	EXPANSION JOINT
F	FLOW METER
	FLOW DIRECTION
	ELBOW BASE
	ELBOW REDUCING
	UNION
P	PRESSURE GAUGE WITH TRI-COCK
	PRESSURE INDICATOR
	TEST PLUG
TI	TEMPERATURE INDICATOR
FS	FLOW SWITCH
	METERED BALANCING VALVE WITH PRESSURE TAP
	PRESSURE TEMPERATURE TEST PLUG
T	THERMOMETER
T	THERMOMETER, DIAL
	THERMOWELL
	AUTO FLOW BALANCING VALVE
	FLOOR DRAIN W/P-TRAP
	FLOOR CLEANOUT
	WALL CLEANOUT
	BACKFLOW PREVENTER
	LUBRICATED PLUG COCK
	HOSE BIBB W/VACUUM BREAKER
	CAPPED END
	DELUGE VALVE
	PIPE SWAY BRACING
	PIPE ANCHOR SUPPORT
	BALANCING VALVE

ABBREVIATIONS

A	A	AIR
	ABV	ABOVE
	ACCU	AIR COOLED CONDENSING UNIT
	ACL	ACETYLENE GAS
	ACU	AIR CONDITIONING UNIT
	AD	ACCESS DOOR
	AF	AIR FILTER
	AFF	ABOVE FINISHED FLOOR
	AFH	AIR FILTER, HIGH EFFICIENCY
	AHU	AIR HANDLING UNIT
	APD	AIR PRESSURE DROP
	AR	ACID RESISTANT
	ASSY	ASSEMBLY
	AUX	AUXILIARY
	AV	AUTOMATIC AIR VENT
B	BDD	BACKDRAFT DAMPER
	BHP	BRAKE HORSE POWER
	BP	BACKFLOW PREVENTER
	BS	BIRD SCREEN
C	C	CONDENSATE
	CL	CENTER LINE
	CD	CEILING DIFFUSER
	CFM	CUBIC FEET PER MINUTE
	CH	CHILLER
	CHDR	CHEMICAL DRAIN
	CHP	CHILLED WATER PUMP
	CLG	CEILING
	CO	CLEANOUT
	CONC	CONCRETE
	CONN	CONNECTION
	CONT	CONTINUATION/CONTINUOUS
	COTG	CLEAN OUT TO GRADE
	CU	CONDENSING UNIT/COPPER
	CV	CONSTANT VOLUME
	CW	COLD WATER
D	DDC	DIRECT DIGITAL CONTROL
	DG	DOOR GRILLE
	DIA	DIAMETER
	DIM	DIMENSION
	DMPR	DAMPER
	DN	DOWN
	DPS	DIFFERENTIAL PRESSURE SWITCH
	DR	DRAIN
	DSD	DUCT SMOKE DETECTOR
	DSW	DISTILLED WATER
	DWG	DRAWING
E	EAT	ENTERING AIR TEMPERATURE
	ED	EQUIPMENT DRAIN
	EDB	ENTERING DRY BULB
	EER	ENERGY EFFICIENCY RATIO
	EF	EXHAUST FAN
	EFF	EFFICIENCY
	EG	EXHAUST GRILLE
	EL	ELEVATION
	ELEC	ELECTRICAL
	ENT	ENTERING
	ER	EXHAUST REGISTER
	EWB	ENTERING WET BULB
	EWC	ELECTRIC WATER COOLER
	EWT	ENTERING WATER TEMPERATURE
	EXH	EXHAUST
	EWS	EYE WASH/SHOWER STATION
	EX	EXISTING
F	FCO	FLOOR CLEANOUT
	FD	FIRE DAMPER/FLOOR DRAIN
	FH	FUME HOOD
	FL	FLOOR
	FLEX	FLEXIBLE
	FOR	FUEL OIL RETURN
	FOS	FUEL OIL SUPPLY
	FP	FIRE PUMP
	FPI	FINS PER INCH
	FPM	FEET PER MINUTE
	FT	FEET
	FV	FACE VELOCITY
G	GA	GAUGE
	GIV	GRAVITY INTAKE VENTILATOR
	GND	GROUND
	GPM	GALLONS PER MINUTE
	GRV	GRAVITY RELIEF VENTILATOR
H	HB	HOSE BIBB
	HORIZ	HORIZONTAL
	HP	HORSE POWER/HEAT PUMP
	HTG	HEATING
	HUMID	HUMIDISTAT
	HWS	HOT WATER SUPPLY
	HWB	HOT WATER BOILER
	HWP	HOT WATER PUMP
	HWR	HOT WATER RETURN
I	ID	INSIDE DIAMETER
	IN	INCHES
	INV EL	INVERT ELEVATION
K	KW	KILOWATT
L	LAB	LABORATORY
	LAT	LEAVING AIR TEMPERATURE
	LAV	LAVATORY
	LB	POUND
	LD	LINEAR DIFFUSER
	LDB	LEAVING DRY BULB
	LF	LINEAR FEET
	LFD	LAMINAR FLOW DIFFUSER
	LP	LIQUID PROPANE
	L/S	LITERS PER SECOND
	LWB	LEAVING WET BULB
	LWT	LEAVING WATER TEMPERATURE
M	MAU	MAKE-UP AIR UNIT
	MAX	MAXIMUM
	MB	MIXING BOX/MOP BASIN
	MBH	THOUSAND BTU/HR
	MD	MOTORIZED DAMPER
	MECH	MECHANICAL
	MIN	MINUTE/MINIMUM
	MM	MILLIMETERS
	MS	MOTOR STARTER
N	N	NITROGEN
	NC	NORMALLY CLOSED
	NG	NATURAL GAS
	NIC	NOT IN CONTRACT
	NO	NUMBER
	NOX	NITROGEN OXIDE
	NTS	NOT TO SCALE
O	O	OXYGEN
	OA	OUTSIDE AIR
	OAL	OUTSIDE AIR LOUVER
	OBD	OPPOSED BLADE DAMPER
	OC	ON CENTER
	OS	OVERFLOW SCUPPER
	OS&Y	OUTSIDE SCREW & YOKE
P	PD	PRESSURE DROP
	POC	POINT OF CONNECTION
	PRESS	PRESSURE
	PRV	PRESSURE REDUCING VALVE
	PSIG	POUNDS PER SQUARE INCH
	PVC	POLYVINYL CHLORIDE
R	RA	RETURN AIR
	RAG	RETURN AIR GRILLE
	RAR	RETURN AIR REGISTER
	RC	RAIN CONDUCTOR
	RD	ROOF DRAIN
	REF	REFERENCE
	RF	RETURN FAN
	RL	RAIN LEADER
	RM	ROOM
	RTN	RETURN
S	SA	SUPPLY AIR
	SAG	SUPPLY AIR GRILLE
	SAN	SANITARY
	SAR	SUPPLY AIR REGISTER
	SD	SMOKE DAMPER
	SD/FD	COMB. SMOKE DAMPER/FIRE DAMP.
	SF	SUPPLY FAN
	SH	SHEET
	SP	STATIC PRESSURE
	SQ FT	SQUARE FEET
	SST	STAINLESS STEEL
T	TCU	TERMINAL CONTROL UNIT
	TEMP	TEMPERATURE
	TG	TRANSFER GRILLE
	TP	TRAP PRIMER
	TYP	TYPICAL
U	UC	UNDERCUT
V	V	VENT
	VAV	VARIABLE AIR VOLUME
	VD	VOLUME DAMPER
	VEL	VELOCITY
	VERT	VERTICAL
	VFD	VARIABLE FREQUENCY DRIVE
	VSD	VARIABLE SPEED DRIVE
	VTR	VENT THRU ROOF
W	W/	WITH
	W/O	WITHOUT
	WCO	WALL CLEANOUT
	WC	WATER COLUMN
	WH	WALL HYDRANT
	WHA	WATER HAMMER ARRESTORS
	WR	WATER RISER
	WTR	WATER

NOTE:
THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET. THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

PIPE LINES

- POTABLE COLD WATER
- POTABLE HOT WATER
- POTABLE HOT WATER RETURN
- VENT

DUCT TAGS

XX" S/A	SUPPLY AIR
XX" R/A	RETURN AIR
XX" EXH.	EXHAUST AIR
XX" O/A	OUTSIDE AIR
XX" T/A	TRANSFER AIR

SUPPLY AIR DEVICE (TYP OF 4)

CD1 8" 250

- QUANTITY REQUIRED IN SAME ROOM. BLANK IF ONLY ONE
- DEVICE TYPE PER SCHEDULE
- NECK SIZE (INCHES) ONE NUMBER INDICATES ROUND
- DELIVERY (CFM)

RAG 8" 250

GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THESE DOCUMENTS, THE APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS; INTERNATIONAL BUILDING CODE-MECHANICAL, SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-9.1 MECHANICAL REFRIGERATION.
2. THE TERM "PROVIDE" USED IN THE PROJECT SPECIFICATIONS AND DRAWINGS SHALL MEAN TO FURNISH, INSTALL, CONNECT, AND PLACE IN SERVICE COMPLETELY IN THE SPECIFIED OR APPROVED MANNER THE ITEM AND/OR MATERIAL DESCRIBED.
3. THE MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. ALL EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFIED GUIDELINES. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTRACT ENGINEER IN WRITING IF MECHANICAL SYSTEMS WILL NOT FIT IN AREA ALLOTTED.
4. SYMBOLS IN THE LEGEND ARE APPLICABLE GENERALLY, FOR EXACT REQUIREMENTS SEE THE APPLICABLE SCHEDULES, LAYOUTS, DETAILS, AND THE SPECIFICATIONS. UNLESS OTHERWISE NOTED, ALL DUCTS, EQUIPMENT, PIPE SIZES, AND DIMENSIONS ARE IN ENGLISH UNITS.
5. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
6. ENGINEER OF RECORD RECOGNIZES THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS TO BE LICENSED PROFESSIONALS IN THE STATE IN WHICH WORK IS TO BE PERFORMED. GENERAL CONTRACTOR SHALL CONSIDER THE PROJECT AS ONE SET OF DOCUMENTS. GENERAL CONTRACTOR SHALL PROVIDE AN ENTIRE SET OF DOCUMENTS SHOWING ALL TRADES TO EACH SUBCONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS TO INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS ON THE DOCUMENTS PRIOR TO SUBMITTING FINAL BID AND COMMENCING ANY WORK. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER UPON REQUEST.
7. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.
8. THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH "AS-BUILT" REDLINE DRAWINGS. UPON COMPLETION OF THE PROJECT AND AUTOCAD SHOP DRAWING FILES (IF APPLICABLE).
9. THE GENERAL CONTRACTOR SHALL PROVIDE IN WRITING AND ON COMPANY LETTER HEAD, ALL ITEMS IN USE ENGINEERED OR OMITTED FROM PROJECT BIDS. THIS DOCUMENT SHALL HAVE DETAILED DESCRIPTION AND TRANSPARENCY OF ALL ITEMS IN EACH DISCIPLINE AND FOR EACH TRADE. INFORMATION SHALL BE PROVIDED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO SUBMITTING FINAL BID. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER/OWNER UPON REQUEST.

DUCTWORK:

10. INTERIOR METAL DUCT SHALL BE BE CONSTRUCTED OF GALVANIZED SHEET STEEL; LOCK-FORMING QUALITY; ASTM A653/A 653M, COATING DESIGNATION; MIL-PHOSPHATIZED FINISH FOR SURFACES OF DUCT EXPOSED TO VIEW. FABRICATE DUCTS, ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS AND OTHER CONSTRUCTIONS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE". COMPLY WITH REQUIREMENTS FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE-ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS. SUPPLY DUCTWORK DOWNSTREAM OF RTUS AND MAUS SHALL BE SMACNA 2"w.g. CLASSIFICATION. ALL OUTSIDE AIR DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION (SMACNA 2"w.g. CLASSIFICATION). ALL RETURN AIR AND EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION (SMACNA -2"w.g. CLASSIFICATION)
11. FLEXIBLE DUCT SHALL COMPLY UL 181 CLASS 1, FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH A POLYETHYLENE FILM OUTER JACKET ENCLOSING GLASS FIBER INSULATION (R-6) AROUND A CONTINUOUS POLYETHYLENE INNER LINER. THE INNER LINER SHALL HAVE AN ENCAPSULATED STEEL WIRE HELIX. FLEXIBLE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NAIMA'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS". INSULATION SHALL BE 1" (R-6) FOR USE IN CONDITIONED SPACE AND 1 1/2" (R-8) FOR USE IN UNCONDITIONED SPACE.
13. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
14. LAVATORY EXHAUST DUCTS SHALL BE GALVANIZED SHEET METAL OR CORRUGATED ALUMINUM FLEX DUCT WITH SEALED SEAMS AND JOINTS. ALL EXHAUST AIR DUCTS LOCATED IN AREAS WERE DEWPOINT CONDITIONS COULD OCCUR SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATIONS WITH A MINIMUM OF R-6.
15. ALL EXHAUST AIR FANS AND VENTS SHALL BE LOCATED BEYOND 10'-0" OF ANY OUTSIDE AIR INTAKE OR FAN. ALL EXHAUST AIR FANS SHALL BE MARKED WITH A PERMANENT PLATE TITLED "EXHAUST FAN FOR UNIT NUMBER(#) OR AREA". (E.G. "EF-1 FOR LOCKER ROOM", "EF-1-1 FOR GRD FL TOILET", ETC.)
16. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
17. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED W/TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL TAKE-OFFS.

THERMOSTATS/CONTROLS:

18. LOCATION OF THERMOSTATS SHALL BE ON INTERIOR WALLS APPROXIMATELY 48" AFF AND SHALL BE COORDINATED WITH SWITCHES, ETC. AT LOCATION SHOWN ON DRAWINGS.
19. VALVES SERVING DOMESTIC WATER SYSTEMS SHALL BE BALL VALVES OR APPROVED EQUAL. ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE BY MAINTENANCE PERSONNEL. VALVES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED WITHIN 18" OF THE CEILING. VALVES LOCATED IN SPACES WITHOUT CEILINGS SHALL BE ACCESSIBLE FROM THE FLOOR OR WITH A SIX OR EIGHT FOOT LADDER.
20. CONTRACTOR SHALL PROVIDE OWNER/BUILDING MANAGER/BUILDING ENGINEER WITH 40 HOURS OF ONSITE AND/OR OFF SITE TRAINING IN THE CONTROL AND OPERATION OF THE HVAC SYSTEM. TIME AND LOCATION TO BE DETERMINED BY CLIENT.
21. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED ASSEMBLIES. PROVIDE SMOKE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING SMOKE RATED ASSEMBLIES. PROVIDE RADIATION DAMPERS IN DIFFUSERS OF RATED CEILINGS. REFER TO ARCHITECTURAL LIFE SAFETY SHEETS FOR RATED ASSEMBLIES.
22. FOR ELECTRICAL OR CONTROL PANELS PROVIDE CLEARANCE PER NEX ARTICLE 110. DUCTS, PIPES, AND OTHER EQUIPMENT ARE NOT ALLOWED TO RUN OVER PANELS PER NEC.
23. THE GENERAL CONTRACTOR SHALL TEST AND BALANCE THE AIR SIDE SYSTEM UPON COMPLETION. THE FINAL TEST AND BALANCE MUST BE PERFORMED BY AN INDEPENDENT FIRM CONTRACTED BY THE GENERAL CONTRACTOR AND NOT THE MECHANICAL CONTRACTOR. THE TEST AND BALANCE FIRM SHALL HOLD A CURRENT CERTIFICATION FROM A RECOGNIZED TEST AND BALANCE ORGANIZATION. THE TEST AND BALANCE OPERATION SHALL INCLUDE ALL AIR SIDE SYSTEMS REGARDLESS OF SIZE OF EQUIPMENT AND A TEST TO CONFIRM BUILDING IS NEUTRAL OR POSITIVELY PRESSURIZED. THE T & B FIRM SHALL PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEER UPON COMPLETION.
24. ALL OPERATIONS / MAINTENANCE MANUALS FOR EQUIPMENT SPECIFIED SHALL BE PROVIDED TO OWNER UPON COMPLETION OF PROJECT.

LMHT Project No. 22160.00

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8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055

Drawing: MECHANICAL NOTES

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
RJB

Checked By
MJM

Sheet No.
M001

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\M001.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:51am

KEYED NOTES (1/M101):

1. MECHANICAL CONTRACTOR (MC) SHALL INSTALL MANUAL FIRE PULL AT 48" AFF AT LOCATION SHOWN. ENSURE FIRE PULL LOCATED BETWEEN 10 AND 20 FEET FROM COOKING EQUIPMENT WHICH IT SERVES OR IS LOCATED AS DIRECTED BY LOCAL INSPECTOR. MC SHALL LABEL (FOR EASY IDENTIFICATION) THE FIRE PULL FOR CORRESPONDING HOODS NUMBER SHOWN ON PLAN.
2. MC SHALL PROVIDE RTU WITH FACTORY WIRED DUCT HUMIDITY SENSOR IN RETURN AIR DUCT. MASTER THERMOSTAT SHALL BE LOCATED IN THE OFFICE.
3. MC SHALL INSTALL AIR CURTAIN, (1) TOTAL, ON CEILING AT THE DRIVE THRU. COORDINATE WITH GENERAL AND ELECTRICAL CONTRACTORS AS REQUIRED.
4. DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY DUCTWORK OF EACH UNIT. VERIFY REQUIREMENTS WITH LOCAL AUTHORITIES. ACCESS SHALL BE PROVIDED FOR INSPECTION AND MAINTENANCE. CONTRACTOR SHALL WIRE SMOKE DETECTORS TO THE REMOTE ALARM INDICATORS (IF REQUIRED), FOR AUDIBLE/VISUAL ALARM. SEE ELECTRICAL SHEETS. FIRE ALARM CONTRACTOR SHALL PROGRAM RTU TO SHUT DOWN UPON DETECTION BY DETECTOR. MC SHALL COORDINATE WITH FIRE ALARM CONTRACTOR FOR INTEGRATION INTO FIRE ALARM SYSTEM (IF REQUIRED).
5. TRANSITION SUPPLY AND RETURN RISERS AND OFFSET AS REQUIRED TO CONNECT TO RTU CURB OPENINGS (FROM DUCT SIZES SHOWN ON PLAN).
6. MC SHALL INSTALL KITCHEN HOOD EXHAUST FANS IN LOCATION SHOWN. MC SHALL MEET ALL LOCAL AND STATE CODE REQUIREMENTS. GREASE DUCTWORK SHALL BE PROVIDED AND INSTALLED BY MC, TO MEET ALL LOCAL AND STATE CODE REQUIREMENTS, SEE GREASE DUCT SPECIFICATION THIS SHEET AND DETAIL 5/M501 AND HOOD SHEETS PROVIDED BY OTHERS. COORDINATE WITH GENERAL CONTRACTOR (GC).
7. MC SHALL PROVIDE AND INSTALL OPPOSED BLADE DAMPER TO REGISTER / DIFFUSER NECK WITH ADJUSTMENT FROM FACE.
8. COORDINATE WITH G.C. FOR PENETRATION THROUGH BAFFLE.
9. MC SHALL PROVIDE AND INSTALL MAKE-UP AIR RISER (TURN UP AND TRANSITION RISER SIZE TO FIT WITHIN CURB WITH VIBRATION DAMPER) FROM SUPPLY FAN. ROUTE MAKE-UP AIR DUCTWORK AS SHOWN AND PROVIDE BALANCING DAMPER AND ALL SQUARE TO ROUND TRANSITIONS TO HOOD SUPPLY PLENUMS AS REQUIRED. SEE HOOD SHEETS FOR PSP CONNECTION SIZES AND SUPPLY CFMS REQUIRED. MAINTAIN 18" CLEAR BETWEEN HOOD AND COMBUSTIBLE MATERIALS. PROVIDE RIGID COLLAR AND EXTENSION AS REQUIRED.
10. NOT USED.
11. TAP OFF BOTTOM OF MAIN WITH SIZE INDICATED AND BALANCING DAMPER (IF ACCESSIBLE). CONNECT TO DIFFUSER AS SHOWN.
12. MC SHALL INSTALL ELECTRIC UNIT HEATER AT 10'-0" A.F.F. AND THERMOSTAT (SET TO OPERATE 45) IN LOCATION SHOWN ON PLAN OR AS DIRECTED BY OWNER REPRESENTATIVE @ 48" AFF. SEE MECHANICAL SCHEDULES ON SHEET M601.
13. UTILITY CABINET INSTALLED IN HOOD #1 FOR MAIN HOOD CONTROLS AND FIRE SUPPRESSION SYSTEM, SEE HOOD SHEETS.
14. MC SHALL PROVIDE AND INSTALL NEW EXHAUST FAN IN LOCATION SHOWN. SEE 2/M101.
15. MC SHALL PROVIDE RTU WITH FACTORY WIRED DUCT STAT IN RETURN AIR DUCT. INSTALL AS FAR AWAY FROM UNIT AS POSSIBLE, WHILE STILL BEING ABLE TO READ AIR FROM ALL GRILLES. MASTER THERMOSTAT SHALL BE LOCATED IN THE CPI PANEL.
16. MC SHALL CAREFULLY COORDINATE DUCT ROUTING WITH STRUCTURAL OPENING. SEE SHEET S102.
17. MC SHALL ROUTE 6 EXHAUST RISER UP TO ROOF VENT CAP.
18. PROVIDE AUDIBLE/VISUAL ALARM DEVICES IN APPROVED LOCATION TO SIGNAL DUCT DETECTOR ACTIVATION. MOUNT AT 6'-6" AFF. MC AND EC SHALL TEST AND VERIFY THE SMOKE DETECTION SYSTEM WORKS PROPERLY AND MEETS ALL LOCAL AND STATE CODE REQUIREMENTS.
19. NOT USED.
20. MASTER THERMOSTATS (FOR EACH RTU) SHALL BE MOUNTED IN THE OFFICE AT 48" AFF.
21. MOUNT NEW CABINET EXHAUST FANS IN CEILING AT LOCATION SHOWN.
22. M.C. SHALL MOUNT DOUBLE-WALL EXPOSED SPIRAL DUCT AS HIGH AS POSSIBLE BELOW STRUCTURE. M.C. SHALL COORDINATE DUCT ROUTING TO AVOID THE LIGHT FIXTURES. SPIRAL DUCTWORK TO BE PAINTED. SEE ARCHITECTURAL DRAWINGS AND DETAIL 12/M501.
23. MOUNT CEILING FAN PER MANUFACTURERS INSTRUCTIONS FROM STRUCTURE ABOVE. ENSURE MANUFACTURER'S CLEARANCES WHILE MOUNTING FAN AS HIGH AS POSSIBLE.
24. MOUNT RADIANT HEATERS PER MANUFACTURERS INSTRUCTIONS FROM STRUCTURE. ENSURE MANUFACTURER'S CLEARANCES WHILE MOUNTING HEATER AS HIGH AS POSSIBLE.
25. OFFSET DUCT AS REQUIRED FOR DUCT ROUTING SHOWN.
26. MOUNT RETURN GRILLE AS HIGH AS POSSIBLE WITH RETURN DUCT MOUNTED TIGHT TO STRUCTURE.

KEYED NOTES (2/M101):

1. MC SHALL PROVIDE AND INSTALL NEW EXHAUST FAN IN LOCATION SHOWN. MC SHALL COORDINATE WITH THE GC AND EQUIPMENT MANUFACTURER FOR INSTALLATION. EXHAUST FAN SHALL BE ROOF MOUNTED ON CURB.
2. MC SHALL PROVIDE 4" PIPE FOR FLUE (VERIFY FUEL CLASS WITH LOCAL INSPECTOR). MC SHALL INSTALL WITH RAIN CAP AND PROPERLY INSTALL THE FLUE WITH A SLEEVE THROUGH THE ROOF PER CODE.
3. EXHAUST OUTLET OPENING SHALL BE 5'-0" MIN. FROM THE BUILDING.

GENERAL NOTES:

A. M.C. SHALL PROVIDE AND INSTALL HVAC EQUIPMENT SHOWN UNLESS NOTED OTHERWISE. FIELD VERIFY EXISTING STRUCTURE PRIOR TO WORK AND VERIFY ANY DUCT OFFSETS REQUIRED FOR INSTALLATION.

B. ALL RIGID DUCTWORK SHALL BE RUN ABOVE THE FINISHED CEILING AND BETWEEN JOISTS, OR AS TIGHT TO THE JOISTS AS POSSIBLE UNLESS OTHERWISE NOTED.

C. MC SHALL COORDINATE DUCT OFFSETS AS REQUIRED FOR DUCT ROUTING SHOWN.

D. SEE SHEET M601 FOR SCHEDULES AND SHEET M001 FOR GENERAL NOTES.

E. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR, CONTRACTOR SHALL INSTALL SYSTEMS, EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MINIMUM REQUIREMENTS SHOWN IN THESE PLANS. ANY DEVIATIONS FROM THE DESIGN PLANS SHALL ONLY BE PERFORMED IF APPROVED BY THE OWNER'S REPRESENTATIVE OR THE DESIGN ENGINEER. ANY UNAPPROVED DEVIATION FROM DESIGN PLANS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. ALL WORK SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. ANY DEVIATION FROM THE DESIGN PLANS IMPLIED BY LOCAL CODES THAT SUGGESTS INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THE DESIGN PLANS SHALL NOT BE ALLOWED WITHOUT APPROVAL BY THE OWNER'S REPRESENTATIVE OR THE DESIGN ENGINEER.

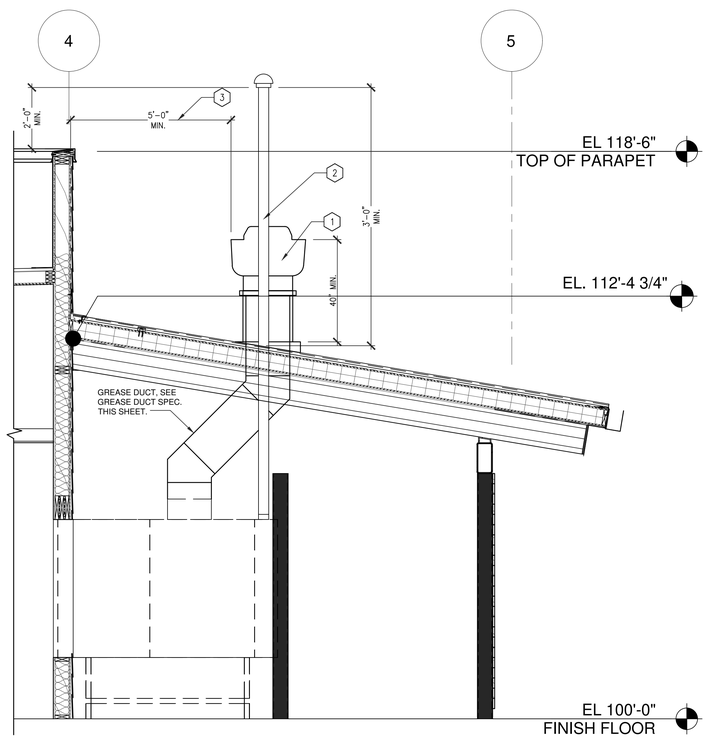
GREASE EXHAUST DUCTWORK SPECIFICATION:

A. THE GREASE EXHAUST SYSTEM SHALL BE CONSTRUCTED OF BLACK STEEL NOT LESS THAN 16 GA. UP TO 4 SQ. FT. AREA, 14 GA. ABOVE 4 SQ. FT. WITH CONTINUOUS GREASE-TIGHT AND WATER-TIGHT WELDS AT ALL JOINTS & SEAMS. THE SYSTEM SHALL BE SO CONSTRUCTED THAT NO GREASE WILL BECOME POCKETED IN ANY PORTION THEREOF & SHALL SLOPE AT NOT LESS THAN 1/4" PER FOOT OF HORIZONTAL LENGTH UNDER 75 FEET LONG OR 1" PER FOOT IF OVER 75 FEET, BACK TO THE HOOD OR AS REQUIRED BY THE LOCAL AUTHORITIES.

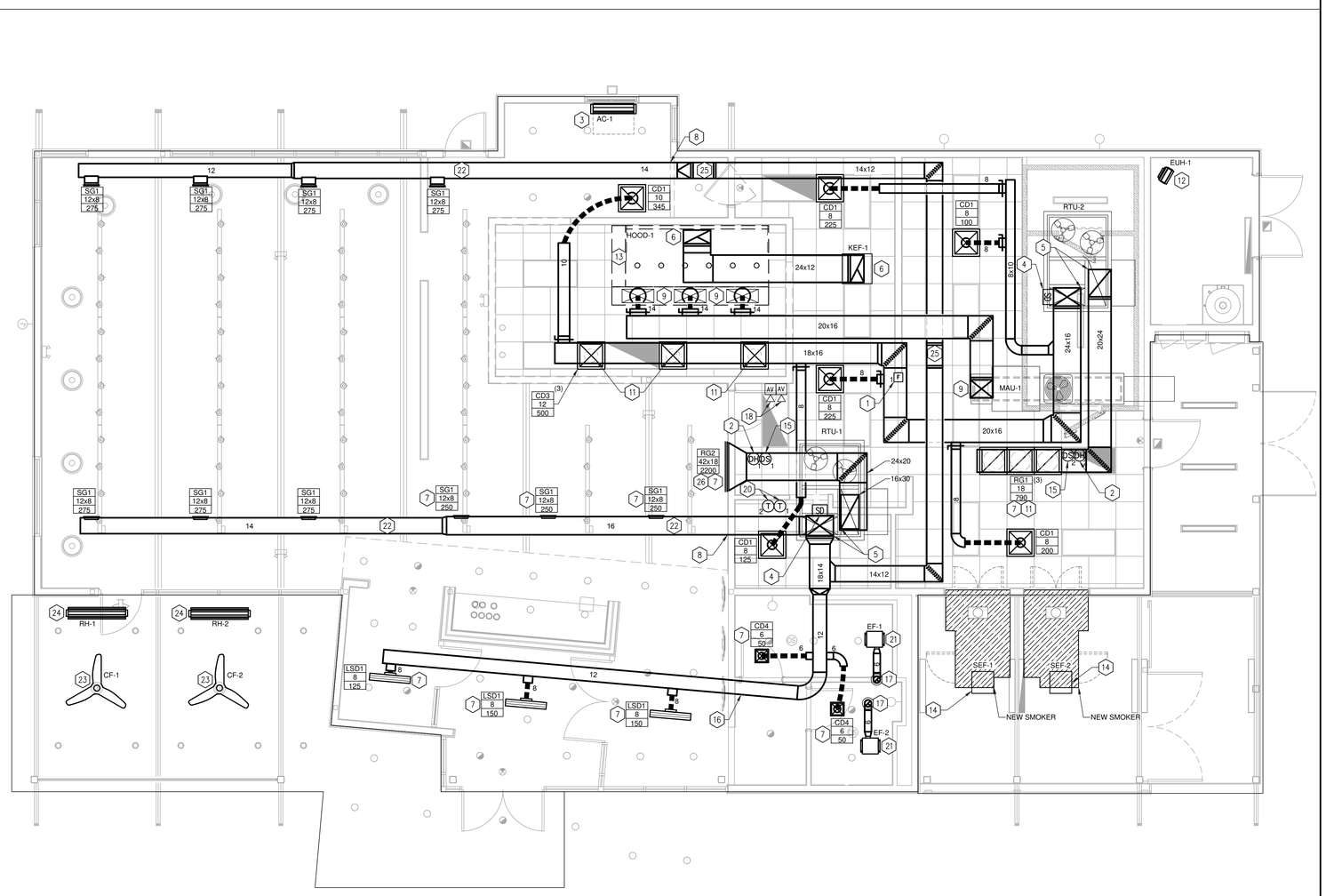
B. OPENINGS IN DUCT SHALL CONFORM TO CODE REQUIREMENTS AND SHALL BE PROVIDED FOR COMPLETE AND THOROUGH CLEANING OF DUCT SYSTEM.

C. GREASE EXHAUST DUCT SHALL BE WRAPPED WITH TWO LAYERS OF 1-1/2" 3M FIRE BARRIER DUCT WRAP 615+ (ASTM E 2336) OR EQUIVALENT GREASE DUCT WRAP. INSTALL WRAP PER MANUFACTURER'S INSTRUCTIONS.

D. PROVIDE THE "PENETRATOR" GREASE DUCT CLEAN-OUT ACCESS DOORS MANUFACTURED BY FLAME GARD, INC. (OR EQUIVALENT) AT EVERY CHANGE OF DIRECTION IN THE DUCT, AT EACH FLOOR, AND/OR EVERY 10 FEET WITH MINIMUM OF 3 FEET OF CLEARANCE IN FRONT OF CLEAN-OUT.



2 SMOKER SECTION
1/2" = 1'-0"



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

LMHT Project No. 22160.00

INRD national restaurant designers
ARCHITECTS & ENGINEERS
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A Division of LMHT Associates

NICHOLAS RAY THORNTON JR. LICENSED No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: MECHANICAL PLAN

RibCrib BBQ

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
RJB

Checked By
MJM

Sheet No.
M101

Drawing File: C:\Users\chudson\Appdata\Local\Temp\AcPublish_24472\M101.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:51am

KEYED NOTES:

1. MC SHALL CLEARLY LABEL RTU'S WITH 3" HIGH BLACK LETTERS FOR EASY IDENTIFICATION. COORDINATE WITH STRUCTURE PRIOR TO ROOF PENETRATION AND INSTALLATION OF ROOF CURB.
2. MC SHALL INSTALL ROOF MOUNTED MAKE-UP AIR FAN. COORDINATE WITH STRUCTURE PRIOR TO ROOF PENETRATION AND INSTALLATION OF ROOF CURB. MAINTAIN 10' CLEARANCE FROM EXHAUST SOURCES. MC SHALL CLEARLY LABEL MAU WITH 3" HIGH BLACK LETTERS FOR EASY IDENTIFICATION.
3. MC SHALL INSTALL ROOF MOUNTED EXHAUST FANS (EF). COORDINATE WITH STRUCTURE PRIOR TO ROOF PENETRATION AND INSTALLATION OF ROOF CURB. MAINTAIN 10' CLEARANCE FROM FRESH AIR INTAKES. MC SHALL CLEARLY LABEL EF WITH 3" HIGH BLACK LETTERS FOR EASY IDENTIFICATION.
4. NEW ROOF CAP FOR RESTROOM EXHAUST. PROVIDE ROOF CAP WITH BACKDRAFT DAMPER AND INSECT SCREEN. EXHAUST SHALL BE A MINIMUM OF 10' FROM OUTSIDE AIR INTAKES.
5. SMOKER EXHAUST FANS SHALL BE ROOF MOUNTED ON CURB. SEE SECTION 2/M101 FOR EXHAUST DUCT AND FLUE REQUIREMENTS FOR THE SMOKERS. MC SHALL CLEARLY LABEL EF WITH 3" HIGH BLACK LETTERS FOR EASY IDENTIFICATION.

GENERAL NOTES:

A. M.C. SHALL PROVIDE AND INSTALL HVAC EQUIPMENT SHOWN UNLESS NOTED OTHERWISE. FIELD VERIFY EXISTING STRUCTURE PRIOR TO WORK AND VERIFY ANY DUCT OFFSETS REQUIRED FOR INSTALLATION.

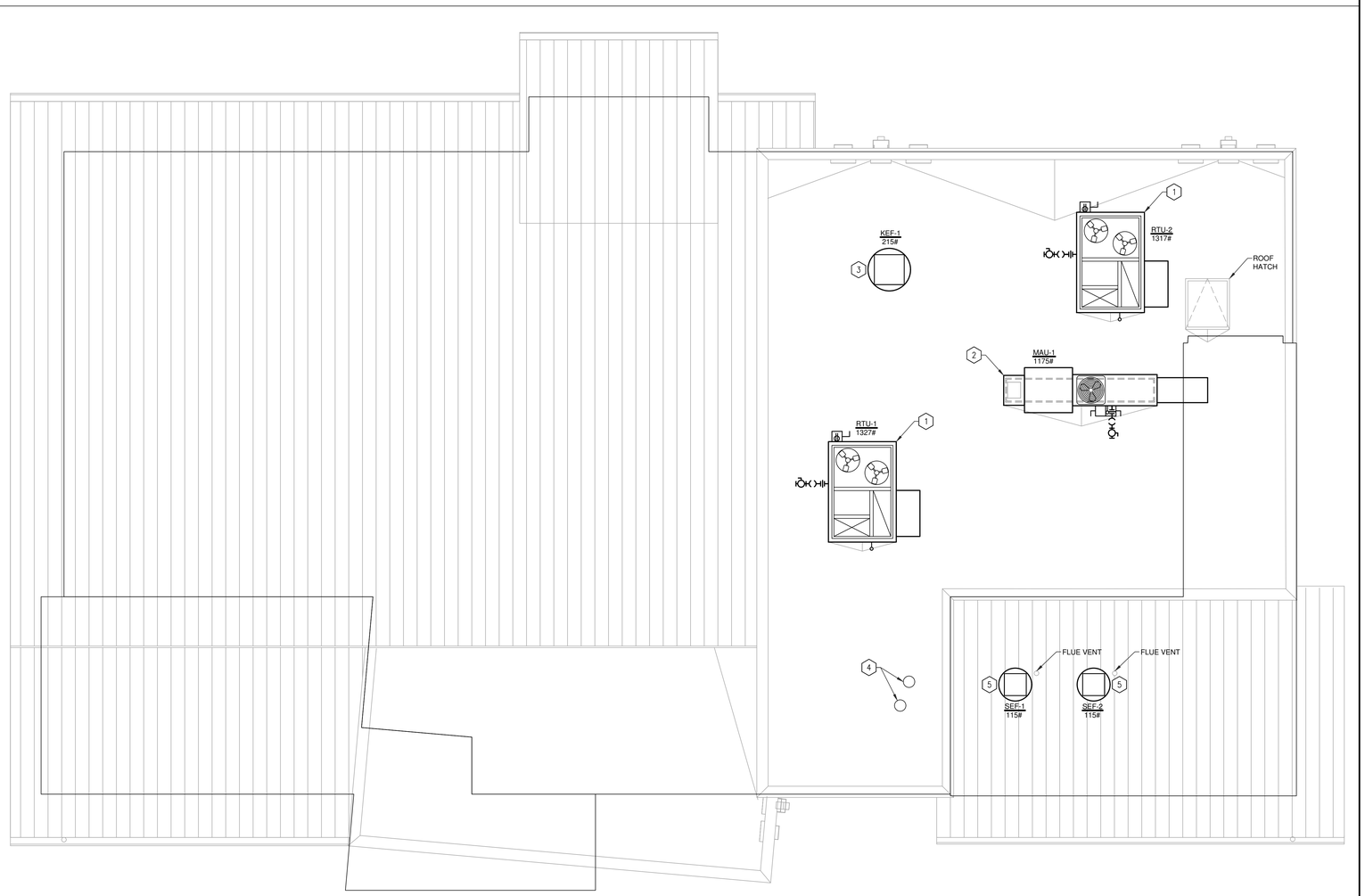
B. SEE SHEET M601 FOR SCHEDULES AND SHEET M001 FOR GENERAL NOTES.

C. SEE ELECTRICAL SHEETS FOR POWER CONNECTIONS.

D. SEE PLUMBING SHEETS FOR GAS AND CONDENSATE CONNECTIONS.

E. ALL RTU'S AND FANS SHALL BE INSTALLED LEVEL.

F. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR, CONTRACTOR SHALL INSTALL SYSTEMS, EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MINIMUM REQUIREMENTS SHOWN IN THESE PLANS. ANY DEVIATIONS FROM THE DESIGN PLANS SHALL ONLY BE PERFORMED IF APPROVED BY THE OWNER'S REPRESENTATIVE OR THE DESIGN ENGINEER. ANY UNAPPROVED DEVIATION FROM DESIGN PLANS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. ALL WORK SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. ANY DEVIATION FROM THE DESIGN PLANS IMPLIED BY LOCAL CODES THAT SUGGESTS INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THE DESIGN PLANS SHALL NOT BE ALLOWED WITHOUT APPROVAL BY THE OWNER'S REPRESENTATIVE OR THE DESIGN ENGINEER.



1
1/4" = 1'-0"

MECHANICAL ROOF PLAN

LMHT Project No. 22160.00

INRD national restaurant designers
ARCHITECTS & ENGINEERS
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A Division of LMHT Associates

NELSON RAY THOMPSON JR. LICENSED No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: MECHANICAL ROOF PLAN

Revisions

THRU ADDENDUM " "

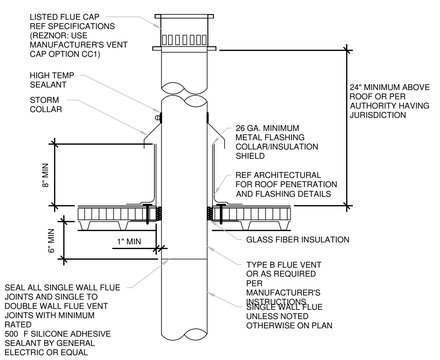
PROJECT DATE
08/12/2022

Drawn By
RJB

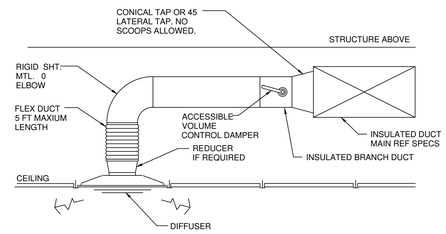
Checked By
MJM

Sheet No.
M201

Drawing File: C:\Users\chudson\Appdata\Local\Temp\AcPublish_3472\M201.dwg
Plotted by: chudson
Plotted date: Aug 12, 2022 - 8:51am

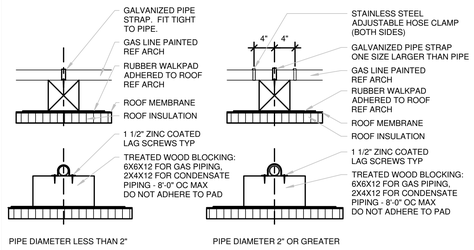


11 FLUE THRU ROOF
NTS

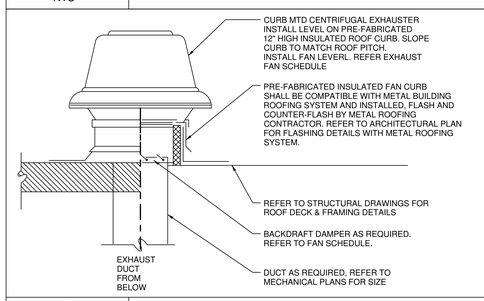


1. USE IN VERTICAL ARRANGEMENT WHERE POSSIBLE. IF BENDING IS NECESSARY, SUPPORT FLEX DUCT TO MAXIMIZE BEND RADIUS AND TURN NO MORE THAN A TOTAL OF 0 .
2. PROVIDE AIRTIGHT CONNECTIONS TO RIGID ROUND DUCT AND AIR DEVICE.
3. USE FLEXIBLE DUCT ONLY IN AREAS WITH ACCESSIBLE LAY-IN CEILINGS.

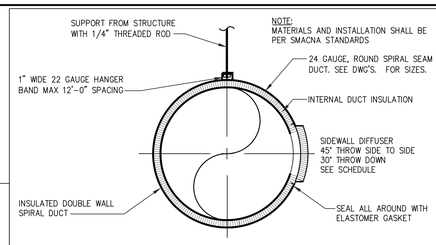
10 BRANCH TAKE-OFF SUPPLY
NTS



6 PIPE BLOCKING
NTS

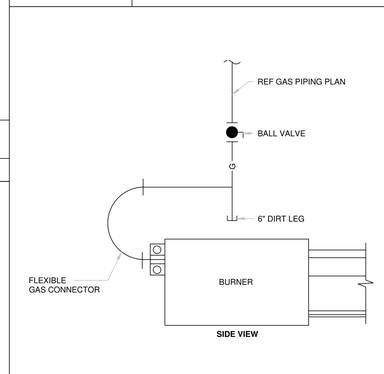


4 ROOF MOUNTED EXHAUST FAN
NTS

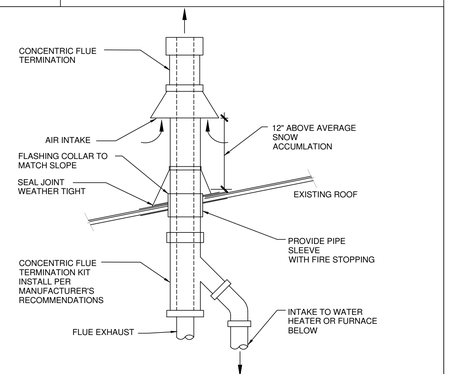


ROUND DUCT SPECIFICATIONS:
EXPOSED ROUND DUCTWORK IN SEATING AREA SHALL BE 24 GAUGE, DOUBLE WALL GALVANIZED STEEL, SPIRAL LOCKSEAM. FITTINGS SHALL BE DOUBLE WALL GALVANIZED STEEL, STANDING SEAM OR SOLID WELDED CONSTRUCTION. ELBOWS SHALL BE STANDING SEAM, GORED ELBOWS. GRILLE COLLARS SHALL BE ATTACHED TO THE DUCTWORK WITH POP RIVETS WITH A FINISHING FILLET OF ELASTOMER SEAL AT THE JUNCTION OF THE COLLAR TO THE DUCT. DUCT–TO–DUCT JOINTS SHALL BE MADE WITH THE SPIRAL SEAM ROTATED SO THAT THE STANDING SEAM FORMS A CONTINUOUS HELICAL PATTERN ACROSS THE JOINT. ALL DUCTWORK AND FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS LATEST EDITION. ALL EXPOSED ROUND DUCTWORK AND FITTINGS IN THE SEATING AREA SHALL BE CLEANED OF ALL OILS AND COATINGS PRIOR TO INSTALLATION AND PROVIDED WITH A MILL PHOSPHITIZED FINISH ("PAINT GRIP", "ZINC GRIP", OR SIMILAR ETCH TREATMENT) TO ALLOW THE DUCTWORK TO BE PAINTED.

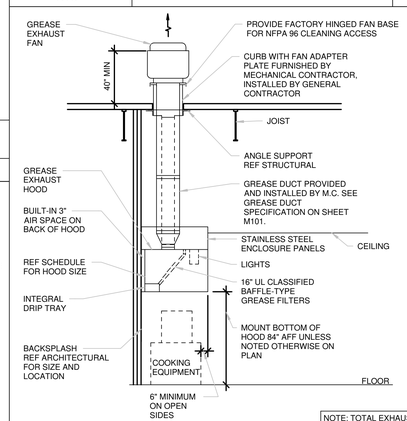
12 EXPOSED SPIRAL DUCT DETAIL
NTS



9 GAS RADIANT HEATER
NTS

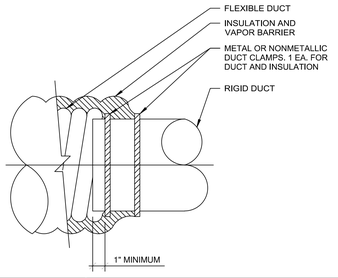


8 CONCENTRIC INTAKE/FLUE
NTS

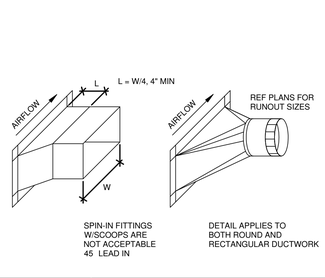


NOTE: TOTAL EXHAUST HOOD SYSTEM TO BE IN COMPLETE CONFORMANCE WITH NFPA-96, UL300 AND ALL LOCAL CODE REGULATIONS

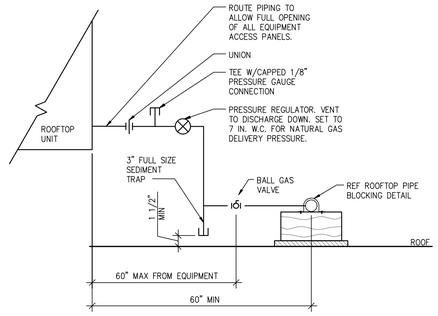
5 EXHAUST HOOD
NTS



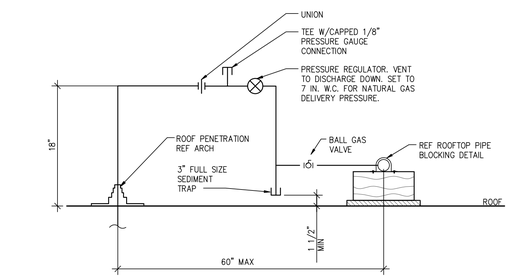
3 FLEXIBLE DUCT CONNECTION
NTS



2 BRANCH DUCT FITTING
NTS

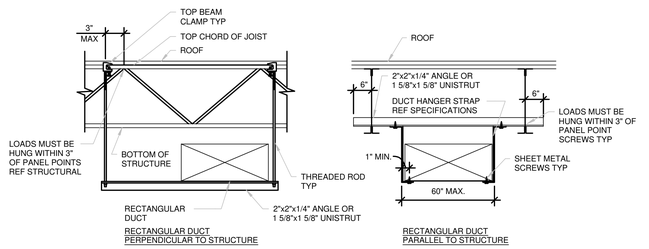


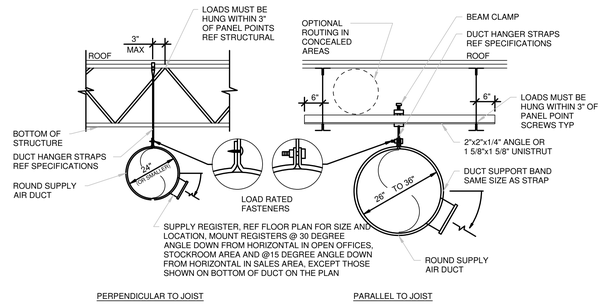
AT ROOFTOP EQUIPMENT



AT ROOF PENETRATION

7 RTU GAS CONNECTION
NTS





1 DUCT SUPPORT AND GRILLE
NTS

LMHT Project No. 22160.00

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NELSON RAY THORNTON JR. LICENSED No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER
8/12/2022

RIB CRIB GEN 6 PROTOTYPE
Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055
Drawing: MECHANICAL DETAILS

RibCrib BBQ

Revisions
THRU ADDENDUM " "

PROJECT DATE
08/12/2022
Drawn By
RJB
Checked By
MJM
Sheet No.
M501

Drawing File: C:\Users\chudson\Upgrade\Vocon\temp\AcPublish_34\72\M501.dwg
Plotted by: chudson
Plotted date: Aug 12, 2022 - 8:51am

2020 FLMC VENTILATION CALCULATIONS

DINING

* SECTION 403.3.1.1 - EQUATION 4-1 — Vbz=RpPz+RaAz

Rp= **7.5** CFM/PERSON (TABLE 403.3)
Pz= **66** PEOPLE (SEATS)
Ra= **0.18** CFM/FT² (TABLE 403.3)
Az= **869** FT²

Vbz= **651** CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE

* SECTION 403.3.1.3 - EQUATION 4-2 — Voz=Vbz/Ez

Vbz= 651 CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE
Ez= 0.80 ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 403.3.1.2)

Voz= **814** CFM MIN. ZONE OUTDOOR AIRFLOW

SERVING

* SECTION 403.3.1.1 - EQUATION 4-1 — Vbz=RpPz+RaAz

Rp= **7.5** CFM/PERSON (TABLE 403.3)
Pz= **4** PEOPLE (15 OCCUPANTS PER 1000 SF)
Ra= **0.12** CFM/FT² (TABLE 403.3)
Az= **238** FT²

Vbz= **59** CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE

* SECTION 403.3.1.3 - EQUATION 4-2 — Voz=Vbz/Ez

Vbz= 59 CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE
Ez= 0.80 ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 403.3.1.2)

Voz= **73** CFM MIN. ZONE OUTDOOR AIRFLOW

VESTIBULE/WAITING

* SECTION 403.3.1.1 - EQUATION 4-1 — Vbz=RpPz+RaAz

Rp= **5** CFM/PERSON (TABLE 403.3)
Pz= **8** PEOPLE (30 OCCUPANTS PER 1000 SF)
Ra= **0.06** CFM/FT² (TABLE 403.3)
Az= **238** FT²

Vbz= **54** CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE

* SECTION 403.3.1.3 - EQUATION 4-2 — Voz=Vbz/Ez

Vbz= 54 CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE
Ez= 0.80 ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 403.3.1.2)

Voz= **68** CFM MIN. ZONE OUTDOOR AIRFLOW

CORRIDOR

* SECTION 403.3.1.1 - EQUATION 4-1 — Vbz=RpPz+RaAz

Rp= **0** CFM/PERSON (TABLE 403.3)
Pz= **0** PEOPLE (SEATS)
Ra= **0.06** CFM/FT² (TABLE 403.3)
Az= **372** FT²

Vbz= **22** CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE

* SECTION 403.3.1.3 - EQUATION 4-2 — Voz=Vbz/Ez

Vbz= 22 CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE
Ez= 0.80 ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 403.3.1.2)

Voz= **28** CFM MIN. ZONE OUTDOOR AIRFLOW

OFFICE

* SECTION 403.3.1.1 - EQUATION 4-1 — Vbz=RpPz+RaAz

Rp= **5** CFM/PERSON (TABLE 403.3)
Pz= **1** PEOPLE (ONE OCCUPANT PER 200 SF)
Ra= **0.06** CFM/FT² (TABLE 403.3)
Az= **86** FT²

Vbz= **10** CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE

* SECTION 403.3.1.3 - EQUATION 4-2 — Voz=Vbz/Ez

Vbz= 10 CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE
Ez= 0.80 ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 403.3.1.2)

Voz= **13** CFM MIN. ZONE OUTDOOR AIRFLOW

STORAGE

* SECTION 403.3.1.1 - EQUATION 4-1 — Vbz=RpPz+RaAz

Rp= **0** CFM/PERSON (TABLE 403.3)
Pz= **0** PEOPLE (SEATS)
Ra= **0.12** CFM/FT² (TABLE 403.3)
Az= **164** FT²

Vbz= **20** CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE

* SECTION 403.3.1.3 - EQUATION 4-2 — Voz=Vbz/Ez

Vbz= 20 CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE
Ez= 0.80 ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 403.3.1.2)

Voz= **25** CFM MIN. ZONE OUTDOOR AIRFLOW

2020 FLMC EXHAUST CALCULATIONS

KITCHEN

0.7 CFM/FT² (TABLE 403.3)
850 FT²

EXHAUST RATE= **595** CFM MIN. REQUIRED EXHAUST RATE

RESTROOMS

70 CFM/UNIT (TABLE 403.3)
2 UNITS

EXHAUST RATE= **140** CFM MIN. REQUIRED EXHAUST RATE

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	AREA SERVED	ELEC HEAT (KW)	AMPS	VOLTAGE	PHASE
EUH-1	QMARK	MUH05-81	FIRE RISER ROOM	5.00	24	208 V	1

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATION AS INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.
2. PROVIDE WITH INTEGRAL THERMOSTAT ON UNIT. SET TO MINIMUM 55 DEGREES FAHRENHEIT.
3. PROVIDE WITH WALL MOUNTING BRACKET

AIR CURTAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	LOCATION	AIRFLOW (CFM)	VELOCITY	HORSEPOWER	FAN QUANTITY	VOLTAGE	PHASE	WEIGHT	NOTES
AC-1	MARS AIR	LPN236-1UA-OB	DRIVE THRU	900	1800 FPM	0.167 hp	1	115 V	1	32 lb	1 - 3

NOTES:
1. INSTALL UNIT PER MANUFACTURER'S REQUIREMENTS.
2. PROVIDE WITH MANUFACTURER DOOR LIMIT SWITCH FOR INTERLOCKING OPERATION WITH DRIVE THRU WINDOW OPENING.
3. STANDARD COLOR IS OBSIDIAN BLACK. ARCHITECT TO CONFIRM COLOR PRIOR TO ORDERING.

VENTILATION SCHEDULE

SYSTEMS	AREA	VENT./EXHAUST REQ'D.	MIN. REQUIRED VENT. (CFM)	TOTAL MIN. REQUIRED VENT. (CFM)	PROVIDED VENT. (CFM)	MIN. REQUIRED EXHAUST (CFM)	PROVIDED EXHAUST (CFM)
RTU-1	DINING	SEE 2020 FLMC CALCS	814	983	1,000	-	-
	SERVING	SEE 2020 FLMC CALCS	73			-	-
	VESTIBULE/WAITING	SEE 2020 FLMC CALCS	68			-	-
	CORRIDOR	SEE 2020 FLMC CALCS	28			-	-
	RESTROOMS	SEE 2020 FLMC CALCS	-			140	150
RTU-2	KITCHEN	SEE 2020 FLMC CALCS	-	37	350	595	2,667
	OFFICE	SEE 2020 FLMC CALCS	13			-	-
	STORAGE	SEE 2020 FLMC CALCS	25			-	-
	TOTALS		1,021	983	1,000	735	2,817

NOTES:
1. VENTILATION RATES PER 2020 FLORIDA MECHANICAL CODE.
2. OUTSIDE AIR QUANTITIES ARE SHOWN IN AIR BALANCE SCHEDULE.

AIR BALANCE SCHEDULE

UNIT	AREA SERVED	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR
RTU-1	FRONT OF HOUSE	3200 CFM	1000 CFM	2200 CFM	-
RTU-2	BACK OF HOUSE	2720 CFM	350 CFM	2370 CFM	-
MAU-1	FRYER/GRIDDLE		2134 CFM		
KEF-1	FRYER/GRIDDLE	-	-	-	2667 CFM
EF-2	RESTROOMS	-	-	-	75 CFM
EF-3	RESTROOMS	-	-	-	75 CFM
	TOTAL:	5920 CFM	3484 CFM	4570 CFM	2817 CFM
	BUILDING PRESSURE:			667 CFM	POSITIVE

HVAC SEQUENCE OF OPERATION

MC SHALL SET THERMOSTAT 'OCCUPIED' AND 'UNOCCUPIED' MODES TO OWNER'S OPERATION SCHEDULE. EVAPORATOR FANS SHALL RUN CONTINUOUSLY(ON) IN THE "OCCUPIED" MODE. VERIFY OPERATION SCHEDULE AND SET-POINTS WITH BRANCH MANAGER AND RIB CRIB.

NORMAL OPERATION (OCCUPIED):
KEF-1, EVAPORATOR FANS, AND ECONOMIZERS (IF INSTALLED) ON RTU-1 AND RTU-2 SHALL OPERATE CONTINUOUSLY UPON ACTIVATION OF KITCHEN HOOD SWITCH. INTERLOCK RELAY FIELD PROVIDED. NORMALLY OPEN CONTACTS FOR THIS ARE INCLUDED INTERNALLY IN THE HOOD ELECTRICAL CONTROL PANEL. SEE DETAILS THIS SHEET AND HOOD SHEETS.

UPON DEACTIVATION OF THE KITCHEN HOOD CONTROL PANEL, ALL ROOFTOP UNITS SHALL BE CONTROLLED VIA INDIVIDUAL SENSORS AND THERMOSTATS.

THE TEMPERATURE SCHEDULE SET POINTS SHALL BE SPECIFIC FOR EACH RTU AND SHALL BE FIELD ADJUSTABLE.
SPACE TEMPERATURE SET POINTS: RTU-2: 8 F COOLING 68 F HEATING
RTU-1: 4 F COOLING 0 F HEATING

SPACE HUMIDITY SET POINTS: RTU-1, RTU-2: 50%RH

RTU-1 AND RTU-2 SHALL UTILIZE A MULTISTAGE EVAPORATOR FAN. EVAPORATOR FANS AND ECONOMIZERS (IF INSTALLED) SHALL OPERATE WHEN ENERGIZED BY THE THERMOSTAT DURING "OCCUPIED" PERIODS DETERMINED BY OWNER. THE RTU SHALL UTILIZE A LOW SPEED INITIALLY AND RAMP UP TO A HIGHER SPEED IF THE LOAD IS NOT MET. OUTSIDE AIR INTAKE ON ECONOMIZERS OR DAMPERS SHALL BE SET SO THAT AT LOW SPEED, MINIMUM OUTSIDE AIR FLOW IS SET TO VALUE SHOWN IN AIR BALANCE SCHEDULE ON SHEET M601 OR SHALL FOLLOW ECONOMIZER OPERATION DESCRIBED BELOW.

ALL RTU'S COOLING/HEATING SWITCH/OVER SHALL BE AUTOMATIC BASED ON THE SPACE DEMAND. EVAPORATOR FANS SHALL BE SET TO RUN CONTINUOUSLY(ON) DURING "OCCUPIED" PERIODS. OUTSIDE AIR INTAKE ON ECONOMIZERS OR DAMPERS SHALL BE IN MINIMUM OPEN POSITION TO DELIVER CFM'S INDICATED IN AIR BALANCE SCHEDULE ON SHEET M601 OR SHALL FOLLOW THE ECONOMIZER OPERATION DESCRIBED BELOW.

FRESH AIR TEMPERING (IF APPLICABLE)
SHALL PROGRAM FRESH AIR TEMPERING SETPOINT VIA T'STAT OR CONTROL BOARD INSIDE RTU. M.C. SHALL CHANGE OPTION 4 IN THE OPTIONS MENU TO 1=ENABLED. OR, REMOVE JUMPER FROM RTOM J3-1 AND J3-2 FOR PROGRAMMABLE T'STATS.

ECONOMIZER OPERATION (IF APPLICABLE)
THE RTU'S EQUIPPED WITH ECONOMIZERS (SEE UNITS SCHEDULE ON SHEET M601) SHALL UTILIZE "FREE COOLING" AS THE FIRST STAGE OF COOLING. WHEN OUTDOOR AIR TEMPERATURE IS LOWER THAN THE MIXED AIR TEMPERATURE, OUTSIDE AIR INTAKE DAMPERS SHALL MODULATE FROM MIN. TO MAX. OPEN POSITION AND SPACE RETURN AIR DAMPERS SHALL MODULATE FROM MAX. TO MIN. RELIEF DAMPERS SHALL BE CONTROLLED RESPECTIVELY VIA INTEGRAL RTU CONTROL. IF THE OUTSIDE AIR ALONE CANNOT SATISFY THE SPACE COOLING DEMAND, THE COMPRESSORS SHALL BE ENERGIZED IN STAGES. WHEN OUTDOOR AIR TEMPERATURE IS HIGHER THAN MIXED AIR TEMPERATURE OR WHEN THE LOW LIMIT SENSOR LOCATED IN DISCHARGE AIR REACHES ITS SET POINT (55 F -AD .) THEN OUTDOOR AIR AND RETURN AIR DAMPERS SHALL BE SET TO DELIVER MINIMUM O.A. CFM'S INDICATED IN THE AIR BALANCE SCHEDULE.

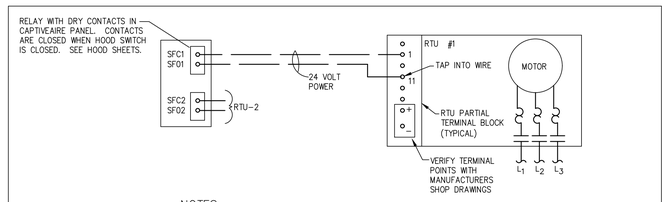
NIGHT SETBACK OPERATION (UNOCCUPIED)
SPACE TEMPERATURE SET POINTS RTU-1 AND RTU-2 85 F COOLING 55 F HEATING.

ALL RTU EVAPORATOR FANS, COMPRESSORS AND HEATER SHALL RUN ON DEMAND ONLY.(AUTO) ANY MOTORIZED OUTSIDE AIR DAMPERS SHALL BE IN CLOSED POSITION. MC SHALL VERIFY REQUIREMENT FOR AUTOMATIC SETBACK CONTROL WITH LOCAL AUTHORITIES AND COORDINATE WITH EQUIPMENT SUPPLIER.

EMERGENCY OPERATION:
SHALL WIRE ANSUL SYSTEM ON TYPE 1 GREASE COOKING HOOD SO THAT UPON FIRE DETECTION OR MANUAL ACTIVATION, ALL POWER TO EQUIPMENT UNDER HOOD SHALL BE ISOLATED, WHILE THE EXHAUST FAN SHALL CONTINUE TO OPERATE. ELECTRICAL SHUNT TRIPPING SHALL ISOLATE ALL POWER TO EQUIPMENT UNDER HOOD. EVAPORATOR FAN ON EACH RTU SHALL BE SHUT DOWN BY INDIVIDUAL SMOKE DETECTOR UPON DETECTING SMOKE.

FIRE PROTECTION GLOBAL SHUTDOWN:
IF LOCAL CODE OFFICIAL REQUIRES GLOBAL SHUTDOWN OF ALL RTU's UPON SMOKE DETECTION IN ANY RTU DUCTWORK, MANUAL ACTIVATION OF SPRIN LER OR ANSUL S STEM. FIRE DETECTION UNDER AN HOOD OR WATER FLOW IN THE SPRIN LER S STEM THE FIRE ALARM CONTRACTOR SHALL PROVIDE A RELAY IN EACH RTU TIED TO THE FIRE ALARM PANEL TO SHUT DOWN ALL RTU's SIMULTANEOUSLY.

HOODS:
HOODS HAVE (1) SWITCH FOR FAN OPERATION AND (1) SWITCH FOR LIGHTS ON THE TOUCH PAD. MANAGER SHOULD TURN BOTH SWITCHES ON UPON ARRIVAL. ENERGIZING THE FAN SWITCH ENABLES THE CONTROL PANEL TO AUTOMATICALLY TURN ON EXHAUST FAN IF HOOD TEMPERATURE REACHES 85 DEGREES (MEASURED BY DUCT STAT IN HOOD RISER AND COMPARED TO BASE ROOM SENSOR.) EXHAUST FAN WILL TURN OFF ONL IF HOOD TEMPERATURE IS BELOW 85 . WHEN FINISHED FOR THE DA THE MANAGER SHOULD TURN THE HOOD LIGHT SWITCH OFF AND THE FAN SWITCH TO AUTO (WILL ACTIVATE AUTOMATICALLY IF RISER TEMPERATURE REACHES 85). THERE IS NO FAN OVERRIDE SWITCH.



NOTES:
1. M.C. SHALL WIRE SENSOR TO RTU TERMINAL BLOCK #1 IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. DASHED LINE INDICATES WIRING PROVIDED/INSTALLED BY M.C. SOLID LINE WIRING IS PROVIDED BY E.C.
3. RTU MANUFACTURER RESERVES THE RIGHT TO CHANGE THE REQUIRED TERMINATION POINTS AND SETTINGS AS DESCRIBED ABOVE. CONTACT TRANE FOR LATEST REQUIREMENTS PRIOR TO STARTING ANY WORK.

1 — RTU INTERLOCK WIRING DETAIL
NOT TO SCALE

PACKAGE ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER & MODEL	NOMINAL CAPACITY (TONS)	S/A CFM	O/A CFM	GAS HEAT IN / OUT (MBH)	NET COOLING CAPACITY TOTAL / SEN (MBH)	ESP	EER	VOLTAGE	PHASE	MCA	MOCP	WEIGHT	REMARKS
RTU-1	CARRIER 48TCDE12	10	3200	1000	180 / 148	112.6 / 75.8	0.7	11.0	208 V	3	50 A	60 A	1327 lb	1 - 11
RTU-2	CARRIER 48TCDE09	8.5	2720	350	125 / 103	96.7 / 67.1	0.8	11.0	208 V	3	42 A	50 A	1317 lb	1 - 11

NOTES:
1. PROVIDE AND INSTALL HVAC SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.
2. PROVIDE UNIT WITH MEDIUM STATIC BELT DRIVEN FAN. SYSTEM SHALL BE TESTED AND BALANCED TO ACHIEVE SPECIFIED AIRFLOWS.
3. PROVIDE SMOKE DETECTORS IN SUPPLY AIR DUCTS. UNIT SHALL BE EQUIPPED TO SHUT DOWN UPON SENSING SMOKE.
4. ALL COMPRESSORS SHALL BE FIELD SERVICEABLE AND FITTED WITH SERVICE VALVES.
5. PROVIDE COMMERCIAL GRADE 7-DAY PROGRAMMABLE THERMOSTAT AND REMOTE SENSOR WHERE NOTED.
6. PROVIDE FACTORY 14" CURBS AND COIL HAIL GUARDS.
7. PROVIDE WITH DUAL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF AND FDD CONTROLS.
8. PROVIDE WITH CONDENSATE OVERFLOW SWITCH.
9. PROVIDE WITH FACTORY MOUNTED NON-FUSED DISCONNECT AND UNPOWERED CONVENIENCE OUTLET.
10. PROVIDE WITH ADAPTIVE DEHUMIDIFICATION SYSTEM (CARRIER HUMIDI-MIZER).
11. PROVIDE ALL RTU'S WITH 2 SPEED DRIVES.

EXHAUST FAN SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	CFM	ESP (IN.)	MOUNTING FAN TYPE	VOLTS	PH	HP	CONTROL METHOD	NOTES
EF-1	WOMENS' RESTROOM	GREENHECK	SP-A90	75	0.250	CEILING	115	1	0.125	SWITCH WITH LIGHTS	1, 3, 5
EF-2	MENS' RESTROOM	GREENHECK	SP-A90	75	0.250	CEILING	115	1	0.125	SWITCH WITH LIGHTS	1, 3, 5
KEF-1	KITCHEN	CAPTIVEAIRE	DU180HFA	2667	1.700	ROOF	208	3	3.000	REFER CAPTIVEAIRE SHEETS	2, 4, 5
SEF-1	SMOKER	CAPTIVEAIRE	DU50HFA	1100	0.750	ROOF	120	1	0.500	REFER CAPTIVEAIRE SHEETS	2, 4, 5
SEF-2	SMOKER	CAPTIVEAIRE	DU50HFA	1100	0.750	ROOF	120	1	0.500	REFER CAPTIVEAIRE SHEETS	2, 4, 5

GENERAL INFORMATION
A. FANS MUST AMCA CERTIFIED AS WELL AS UL OR ETL LISTED.
B. SCHEDULED FAN HORSEPOWERS ARE MAXIMUM AND MAY VARY BETWEEN MANUFACTURERS.

NOTES:
1. FURNISH WITH PREMANUFACTURED ROOF JACK.
2. FURNISH WITH FACTORY MOUNTED DISCONNECT.
3. FURNISH WITH GRAVITY BACKDRAFT DAMPER AND BIRDSCREEN.
4. ROOF CURB PROVIDED BY GENERAL CONTRACTOR.
5. FURNISH WITH FACTORY PRE-WIRED FAN SPEED CONTROLLER.

GRILLE AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	FACE SIZE	MOUNTING LOCATION	NUMBER OF SLOTS	SLOT INCHES	NOTES
CD1	TITUS	TMS	SUPPLY AIR	24"X24"	LAY-IN	--	--	1,3,4,5,7
CD2	TITUS	TMS	SUPPLY AIR	24"X24"	SURFACE	--	--	1,2,3,4,5,7
CD3	CAPTIVEAIRE	DI-PSP	SUPPLY AIR	24"X24"	LAY-IN	--	--	1,2,3,4,6,7
CD4	TITUS	TDC	SUPPLY AIR	12"X12"	SURFACE	--	--	1,2,3,4,5,7
LSD1	TITUS	ML-38	SUPPLY AIR	36"	SURFACE	3	3/4	1,3,4,7,8
SG1	TITUS	301-RL	SUPPLY AIR	SEE PLANS	SIDEWALL / DUCT	--	--	1,2,4,7
RG1	TITUS	50F	RETURN AIR	24"X24"	LAY-IN	--	--	1,3,4,7,9
RG2	TITUS	350-RL	RETURN AIR	SEE PLANS	SIDEWALL	--	--	1,2,4,7

NOTES:
1. REFER TO SPECIFICATIONS FOR APPROVED ALTERNATE MANUFACTURERS. PRE-BID APPROVAL IS REQUIRED.
2. PROVIDE WITH FACE OPERATED OPPOSED BLADE DAMPER FOR VOLUME BALANCING.
3. NECK SIZE OF DIFFUSER SHALL MATCH THE DUCT SIZE SERVING THE DIFFUSER.
4. AIR DEVICE COLOR SHALL BE COMPATIBLE WITH THE ARCHITECTURAL CEILING FOR THE ROOM IN WHICH THE AIR DEVICE IS LOCATED. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE.
5. ALL DIFFUSERS TO BE 4-WAY THROW UNLESS NOTED OTHERWISE.
6. PERFORATED DUMP DIFFUSER.
7. ALL AIR DEVICES SHALL BE TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-91.
8. PROVIDE BOWDEN CABLE PLENUM/SLOT DIFFUSER DAMPER CONTROL SYSTEM AS MANUFACTURED BY YOUNG REGULATOR COMPANY. PROVIDE CABLE CONTROLLED DAMPER, REQUIRED CABLE & WIRE, RACK AND PINION CONTROLLER WITH BRACKET ACCESSIBLE THROUGH FACE OF GRILLE.
9. PROVIDE TRANSITION FROM SQUARE TO ROUND AS REQUIRED.

RADIANT HEATER SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	HTG INPUT	STYLE	MCA	MOCP	VOLTAGE	PHASE	NOTES
RH-1	PATIO	NDUSTRIA	NEL-30	3.0 kW	ELECTRIC	10.8 A	20 A	208 V	1	ALL
RH-2	PATIO	NDUSTRIA	NEL-30	3.0 kW	ELECTRIC	10.8 A	20 A	208 V	1	ALL

NOTES:
1. INSTALL RADIANT HEATER PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN ALL CLEARANCES TO COMBUSTIBLES AS REQUIRED.
2. PROVIDE WITH REMOTE CONTROL.
3. PROVIDE WITH CEILING MOUNT BRACKETS.
4. STANDARD FINISH IS BLACK. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING.

CEILING FAN SCHEDULE

MARK	UNIT TYPE	MANUFACTURER & MODEL	BLADE FINISH	MOTOR FINISH	FAN DIAMETER	FAN CONTROLS	WEIGHT
CF-1	CEILING FAN	HUNTER 50716	MATTE BLACK	MATTE BLACK	52	REMOTE	15 lb
CF-2	CEILING FAN	HUNTER 50716	MATTE BLACK	MATTE BLACK	52	REMOTE	15 lb

GENERAL INFORMATION (ALL UNITS):
1. FAN ELECTRICAL DATA: 120/1PH.
2. OUTDOOR DINING ZONING.

MECHANICAL SYSTEMS AND EQUIPMENT:

METHOD OF COMPLIANCE: PRESCRIPTIVE ✔ ENERGY COST BUDGET_____

MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY:	RTU #1	RTU #2
DESCRIPTION OF UNIT:	10.0 TON COOLING W/ GAS HEAT	8.5 TON COOLING W/ GAS HEAT
HEATING EFFICIENCY:	82%	82%
COOLING EFFICIENCY:	11.0 EER	11.0 EER
HEAT OUTPUT OF UNIT:	148 MBH	103 MBH
COOLING OUTPUT OF UNIT:	120 MBH	102 MBH

BOILER: NONE CHILLER: NONE

THERMAL ZONE : 2A

EXTERIOR DESIGN CONDITIONS
WINTER DRY BULB: 29.6°F
SUMMER DRY BULB: 94.0°F

INTERIOR DESIGN CONDITIONS:	RTU #1	RTU #2
WINTER DRY BULB:	68°F	68°F
SUMMER DRY BULB:	78°F	78°F
RELATIVE HUMIDITY:	N/A	N/A

BUILDING HEATING LOAD: 81.0 MBH

BUILDING COOLING LOAD: 160.0 MBH

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS): BY OTHERS

MOTOR HORSEPOWER: SEE SHEET M1.01
NUMBER OF PHASES: SEE SHEET M1.01
MINIMUM EFFICIENCY: SEE SHEET M1.01
MOTOR TYPE: SEE SHEET M1.01
OF POLES: SEE SHEET M1.01

LMHT Project No. 22160.00

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8/12/2022

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RIB CRIB GEN 6 PROTOTYPE
Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055
Drawing: MECHANICAL SCHEDULES
GENERATION 6

Revisions
THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
RJB

Checked By
MJM

Sheet No.
M601

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\M601.dwg
Plotted By: chudson
Plotted Date: Aug 12, 2022 — 8:51:am

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PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#5257667

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	HOOD CONFIG ROW
1	KH	5424 ND-2-PSP-F	CAPTIVEAIRE	10' 6"	600 DEG	I	HEAVY	254	2667	12"	24"	4"		2667	1334	-0.992"	2134	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

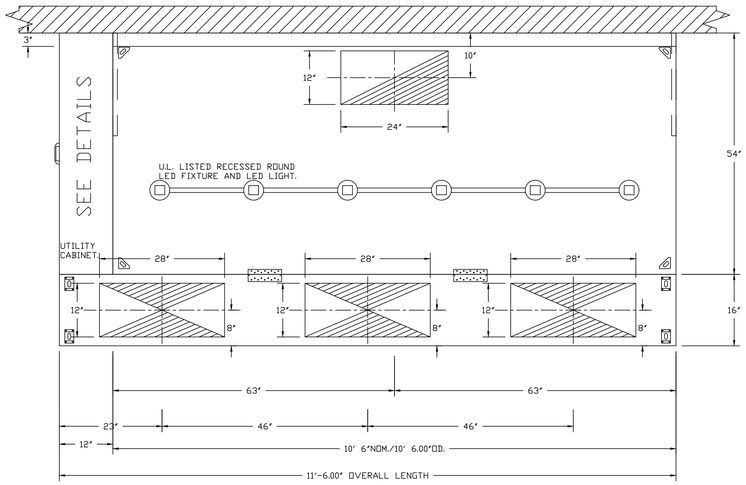
HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	AVERAGE FOOT CANDLES @ 36" AFF	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	KH	CAPTRATE SOLO FILTER	7	16"	16"	85% SEE FILTER SPEC	6	RECESSED ROUND	NO	59	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	993 LBS

HOOD OPTIONS

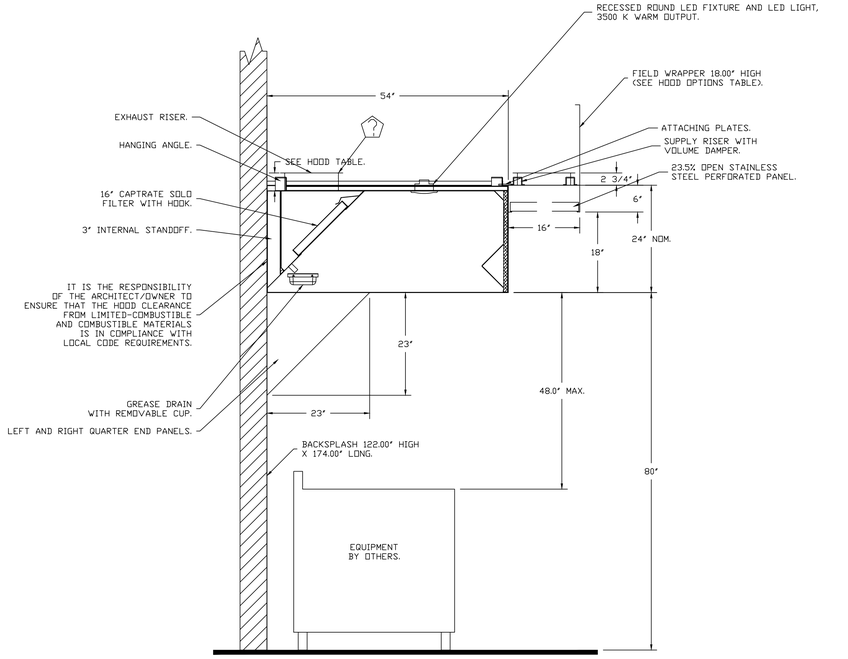
HOOD NO	TAG	OPTION
1	KH	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 174.00" LONG 430 SS VERTICAL.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		RISER SENSOR INSTALL 6IN PLEN.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	PDS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	KH	Front	138"	16"	6"	MUA	12"	28"		711	0.191"
						MUA	12"	28"		711	0.191"
						MUA	12"	28"		711	0.191"



PLAN VIEW - HOOD #1 (KH)
10' 6.00" LONG 5424ND-2-PSP-F



SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #1 (KH)

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

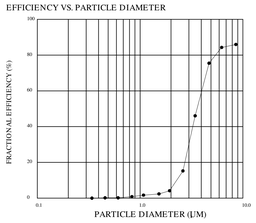
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

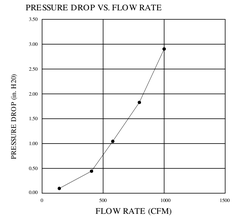
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER

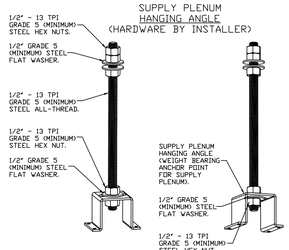


PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

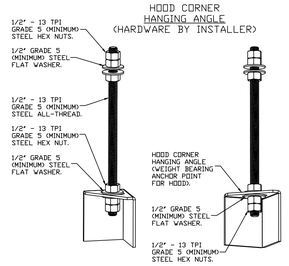
SUPPLY PLENUM
HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

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

HOOD CORNER
HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

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

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REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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www.captiveaire.com

Rib Crib Generation 6 Proto - Lake City, FL

LAKE CITY, FL, 32025

DATE: 7/20/2022

DWG.#: 5257667

DRAWN BY: RJH-80

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

MASTER DRAWING

SHEET NO. 1

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A Division of LMHT Associates

LMHT Project No. 22160.00

FOR REFERENCE ONLY

RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING CENTURION WAY LAKE CITY, FLORIDA 32055

Drawing: HOOD DRAWINGS

Revisions

THRU ADDENDUM " "

PROJECT DATE 08/12/2022

Drawn By

Checked By

Sheet No. **M701**

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\M701.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:51am

FIRE SYSTEM INFORMATION – JOB#5257667

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	29	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - 12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	1	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	6	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	6	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - BI145 3/8" BLACK IRON 90 ELL.	3	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	7	0
		16 - 16 - DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE)- 4 FLOW POINTS.	7	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	7	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

GAS VALVES AND STRAINERS

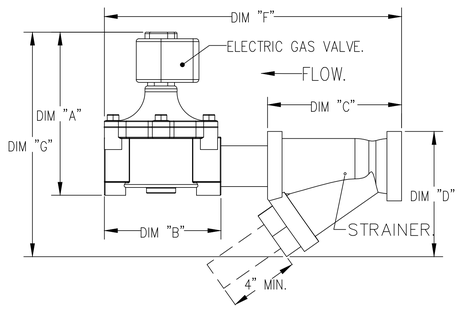
	GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1 →	ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/ VERTICAL	8214280	4417K68	(SC)EGVA2

ALL GAS VALVES/STRAINERS

PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS

TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



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www.captiveaire.com

Rib Crib Generation 6 Proto - Lake City, FL
LAKE CITY, FL, 32025

DATE: 7/20/2022
DWG.#: 5257667
DRAWN BY: RJH-80
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 2

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

LMHT Project No. 22160.00

INRD national restaurant designers
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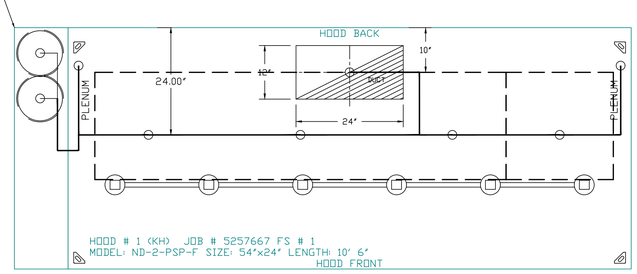
RIB CRIB GEN 6 PROTOTYPE
Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055
Drawing: HOOD DRAWINGS

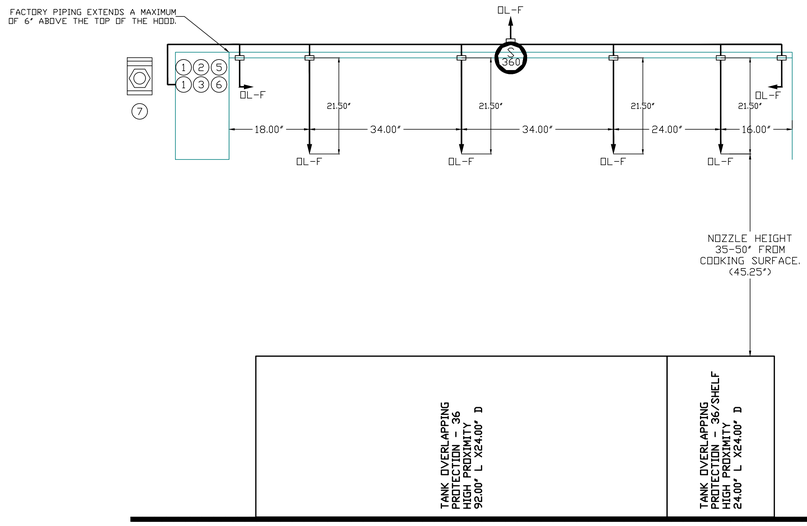
Revisions
THRU ADDENDUM " "

PROJECT DATE 08/12/2022
Drawn By
Checked By
Sheet No. **M702**

Drawing File: C:\Users\rjhudson\appdata\local\temp\AcPublish_8472\M702.dwg
Plotted by: rjhudson
Plotted Date: Aug 12, 2022 - 8:52am

- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS





NOTES
- FIELD PIPE DROPS AS SHOWN
  SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 1 60IN LONG PIECE OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

JOB #: 5257667.
JOB NAME: RIB CRIB GENERATION 6 PROTO - LAKE CITY, FL.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 29.
HOOD # 1 10' 6.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 12" x 24".

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 5257667.
JOB NAME: RIB CRIB GENERATION 6 PROTO - LAKE CITY, FL.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 29.
HOOD # 1 10' 6.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 12" x 24".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

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REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
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www.captiveaire.com

Rib Crib Generation 6 Proto - Lake City, FL

LAKE CITY, FL, 32025

DATE: 7/20/2022

DWG.#: 5257667

DRAWN BY: RJH-80

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

MASTER DRAWING

SHEET NO. 3

LMHT Project No. 22160.00

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: HOOD DRAWINGS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By

Checked By

Sheet No.
M703

Drawing File: C:\Users\rchudson\appdata\local\temp\AcPublish_9472\M703.dwg
Plotted by: rchudson
Plotted Date: Aug 12, 2022 - 8:52am

EXHAUST FAN INFORMATION – JOB#5257667

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF	1	DU180HFA	CAPTIVEAIRE	2667	1.700	1320	ODP,PREMIUM	3.000	1.5670	3	208	9.5	616 FPM	183	18.5
3	SMOKER-EF-1	1	DU50HFA	CAPTIVEAIRE	1100	0.750	1421	TEAO-ECM	0.500	0.2890	1	115	6.3	418 FPM	77	14.3
4	SMOKER-EF-2	1	DU50HFA	CAPTIVEAIRE	1100	0.750	1421	TEAO-ECM	0.500	0.2890	1	115	6.3	418 FPM	77	14.3

CONDENSER DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
2	MAU	A1-D.250-15D-MPU	1	3	208-230	3 PHASE	60 HZ	14.5 AMPS	11.9 AMPS	20 AMPS	14 AWG	14

MUA FAN INFORMATION – JOB#5257667

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	MAU	1	A1-D.250-15D-MPU	15MF-1-MOD	A1-D.250	1100	2134	0.250	2261	ODP,PREMIUM	3.000	1.7560	3	208	8.6	24.7A	35A	1075	24

COILS – JOB#5257667

FAN UNIT NO	TAG	COIL TYPE	DESIGN CFM	COOLING										HEATING								
				ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	ENTERING DB TEMP	LEAVING DB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	STEAM PRESSURE	TOTAL CAPACITY	SENSIBLE CAPACITY
2	MAU	DX	2134	92.0°F	75.0°F	81.4°F	70.5°F	---	---	---	---	36.0 MBH	23.3 MBH	12.7 MBH	---	---	---	---	---	---	---	---	---

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MAU	153378	141108	65°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF	1	GREASE BOX
		1	2 YEAR PARTS WARRANTY
2	MAU	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	3 TON SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 DF/EH MUA (1,100 TO 1,800 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION
		1	DOWNTURN PLENUM FOR SIZE 1 DX COIL MODULE
		1	SIZE 1 COOLING COIL MOISTURE ELIMINATOR OPTION - ALLOWS COOLING COIL FACE VELOCITY TO INCREASE TO 650 FPM - INCREASES COOLING COIL MAX CFM TO 3650 CFM
		1	SINGLE POINT MPU CONNECTION - 1 CONDENSER
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	LOW FIRE START
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	COOLING THERMOSTAT AND RELAY (NOT REQUIRED FOR EVAP)
		1	2 YEAR PARTS WARRANTY
3	SMOKER-EF-1	1	GREASE BOX
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
4	SMOKER-EF-2	1	GREASE BOX
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY

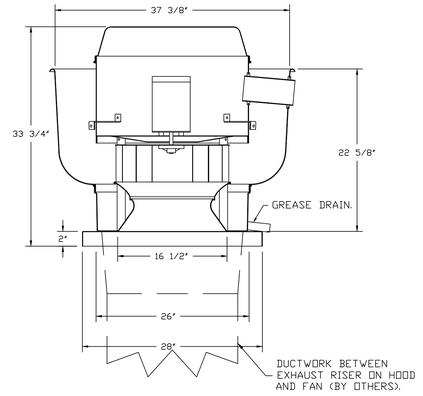
FAN ACCESSORIES

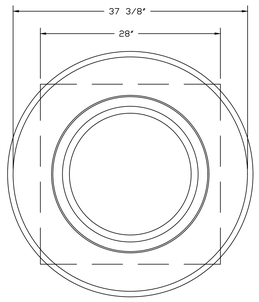
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF	YES						
2	MAU						YES	
3	SMOKER-EF-1	YES						
4	SMOKER-EF-2	YES						

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF	34 LBS	CURB	26.500"W X 26.500"L X 26.000"H 0.250:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	MAU	107 LBS	CURB	21.000"W X 131.000"L X 20.000"H 0.250:12.000 PITCH ALONG WIDTH, RIGHT INSULATED.
3	# 3	SMOKER-EF-1	38 LBS	CURB	19.500"W X 19.500"L X 26.000"H 0.250:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
4	# 4	SMOKER-EF-2	38 LBS	CURB	19.500"W X 19.500"L X 26.000"H 0.250:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.

FAN #1 DU180HFA - EXHAUST FAN (KEF)





TOP VIEW

FEATURES:

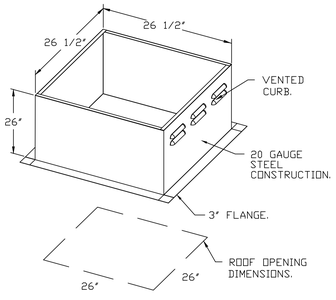
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

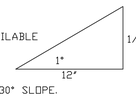
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

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Rib Crib Generation 6 Proto - Lake City, FL
LAKE CITY, FL, 32025

DATE: 7/20/2022

DWG.#: 5257667

DRAWN BY: RJH-80

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

MASTER DRAWING

SHEET NO. 4

LMHT Project No. 22160.00

INRD national restaurant designers
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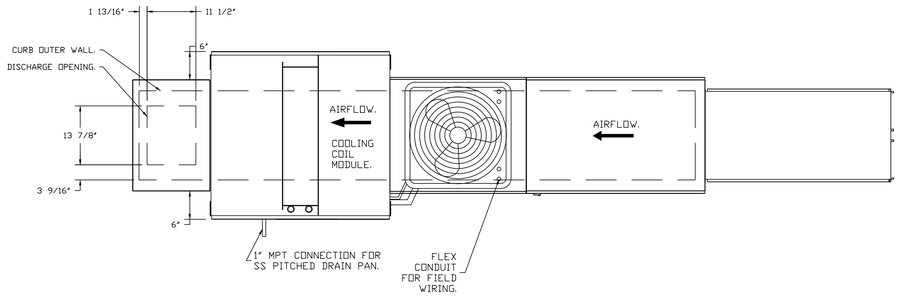
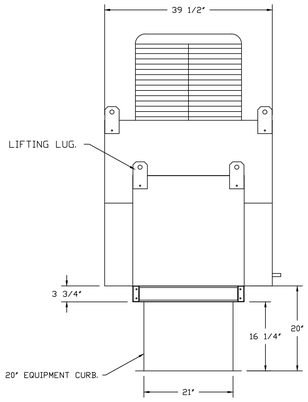
FAN #2 AI-D250-15D-MPU - HEATER (MAU)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
6. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TF8120S ACTUATOR INCLUDED.
7. 3 TON, SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 DF/EH MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (1,100 TO 1,800 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 2EZ1001N.
8. DOWNTURN PLENUM FOR SIZE 1 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS.
9. SIZE 1 MOISTURE ELIMINATOR OPTION FOR DX COILS, MPUS AND CHILLED WATER COILS - ALLOWS COOLING COIL FACE VELOCITY TO INCREASE TO 650 FPM. INCREASES COOLING COIL MAX CFM TO 3650 CFM.
10. SINGLE POINT MPU CONNECTION, 1 CONDENSER.
11. UNIT MOUNTED VFD FOR USE WITH ECPM03.
12. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
13. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
14. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 85°F.
15. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
16. 2 YEAR PARTS WARRANTY

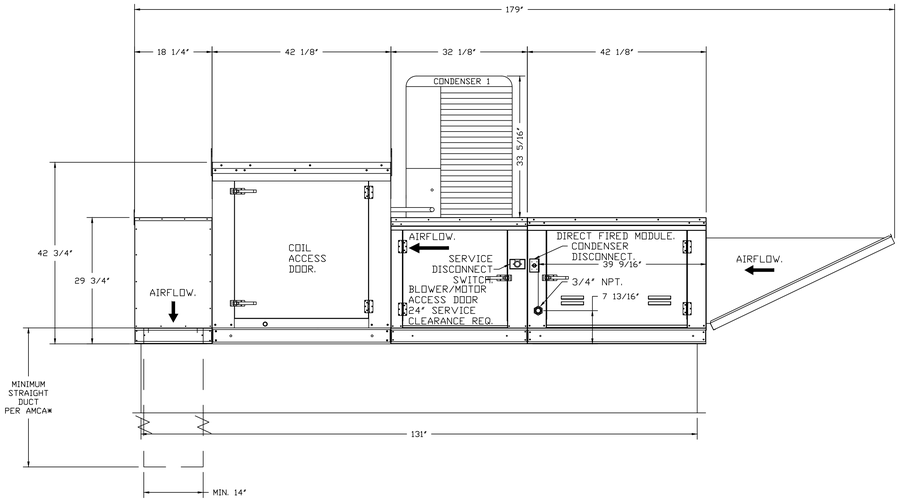
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

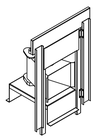
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 22°F. TEMP. RISE = 65°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 144937.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 157540.
OUTPUT BTUs AT ALTITUDE OF 739 FT. = 141108.
INPUT BTUs AT ALTITUDE OF 739 FT. = 153378.









DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

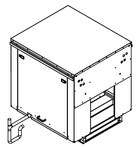
DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO: US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2)(DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

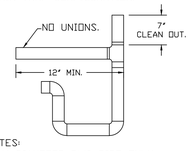
CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

TYPICAL DRAIN TRAP INSTALL



RECOMMENDED COOLING COIL DRAIN TRAP CONFIGURATION.



NOTES:
1) 1" DIAMETER PVC PIPE ONLY.
2) USE ONLY LOW PROFILE COUPLINGS.
3) ADD CLEAN OUT AS SHOWN.

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1		
2		
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4		

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Rib Crib Generation 6 Proto - Lake City, FL
LAKE CITY, FL, 32025

DATE: 7/20/2022
DWG.#: 5257667
DRAWN BY: RJH-80
SCALE: SEE DIMS
MASTER DRAWING
SHEET NO. 5

LMHT Project No. 22160.00

national restaurant designers
INRD ARCHITECTS & ENGINEERS
7208 ACC Blvd. 2nd Floor, Raleigh, NC 27617
ph: 919 544 0087 fax: 919 544 9399
A Division of LMHT Associates

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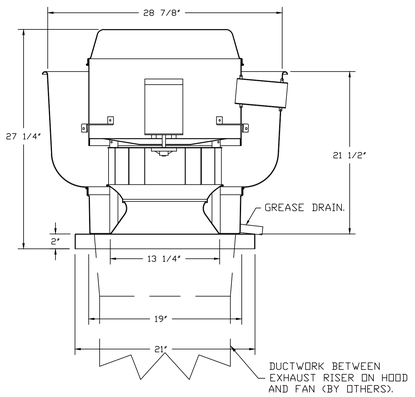
RIB CRIB GEN 6 PROTOTYPE
Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055
Drawing: HOOD DRAWINGS

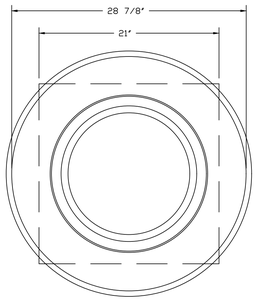
Revisions
THRU ADDENDUM " "

PROJECT DATE 08/12/2022
Drawn By
Checked By
Sheet No. **M705**

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\M705.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:53:2mm

FANS #3 (SMOKER-EF-1), #4 (SMOKER-EF-2) - DU50HFA EXHAUST FAN





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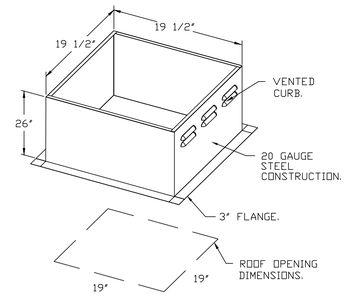

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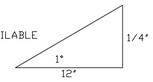

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

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Rib Crib Generation 6 Proto - Lake City, FL

LAKE CITY, FL, 32025

DATE: 7/20/2022

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DRAWN BY: RJH-80

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

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SHEET NO. 6

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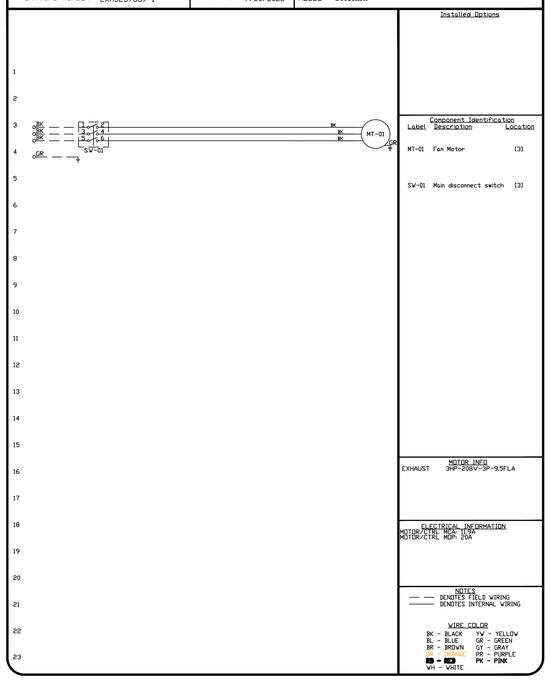
Exhaust Fan Wiring

JOB 5257667 - Rib Crib Generation 6 Proto -...

DRAWING NUMBER EXH5257667-1 | SHIP DATE 7/20/2022 | MODEL DU50HFA



Installed Options

Component Identification

Label	Description	Location
MT-01	Fan Motor	[3]
SV-01	Main disconnect switch	[3]

MOTOR INFO

EXHAUST 3HP-208V-3P-9.5FLA

ELECTRICAL INFORMATION

MOTOR/CTRL MCA: 15A
MOTOR/CTRL MOP: 15A

NOTES

—— DENOTES FIELD WIRING
—— DENOTES INTERNAL WIRING

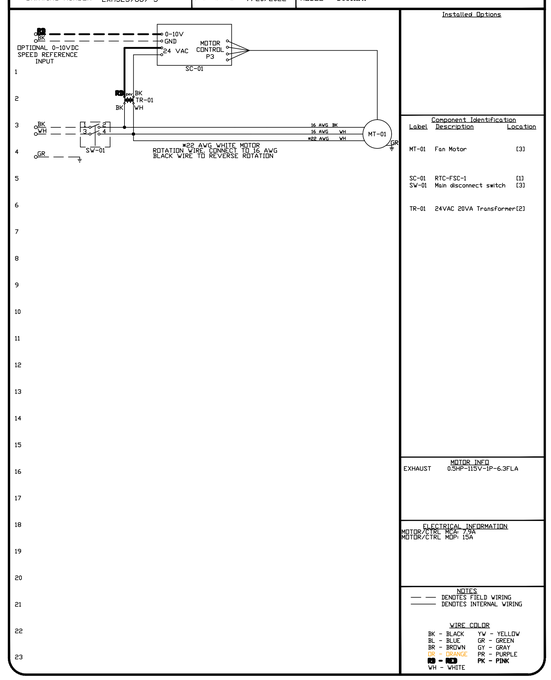
WIRE COLOR

BK - BLACK	YW - YELLOW		
BL - BLUE	GR - GREEN		
BR - BROWN	GY - GRAY		
OR - ORANGE	PR - PURPLE		
RD - RED	PK - PINK		
WH - WHITE			

Exhaust Fan Wiring

JOB 5257667 - Rib Crib Generation 6 Proto -...

DRAWING NUMBER EXH5257667-3 | SHIP DATE 7/20/2022 | MODEL DU50HFA



Installed Options

Component Identification

Label	Description	Location
MT-01	Fan Motor	[3]
SC-01	RTC-FSC-1	[1]
SV-01	Main disconnect switch	[3]
TR-01	24VAC 20VA Transformer	[2]

MOTOR INFO

EXHAUST 0.5HP-115V-1P-6.3FLA

ELECTRICAL INFORMATION

MOTOR/CTRL MCA: 10A
MOTOR/CTRL MOP: 15A

NOTES

—— DENOTES FIELD WIRING
—— DENOTES INTERNAL WIRING

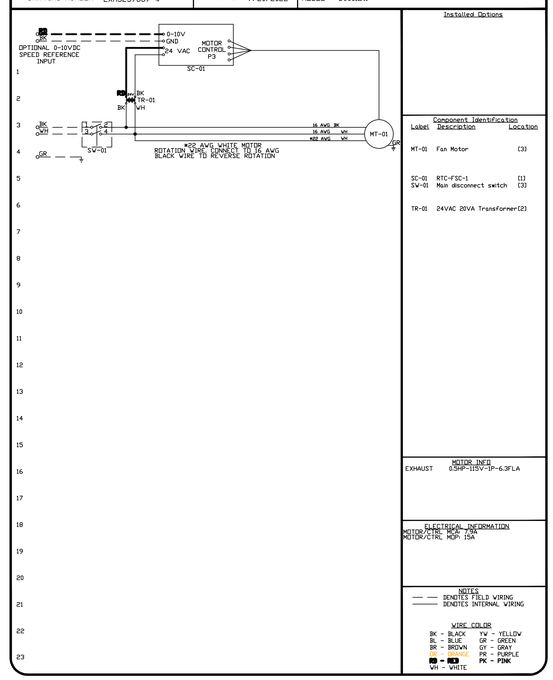
WIRE COLOR

BK - BLACK	YW - YELLOW		
BL - BLUE	GR - GREEN		
BR - BROWN	GY - GRAY		
OR - ORANGE	PR - PURPLE		
RD - RED	PK - PINK		
WH - WHITE			

Exhaust Fan Wiring

JOB 5257667 - Rib Crib Generation 6 Proto -...

DRAWING NUMBER EXH5257667-4 | SHIP DATE 7/20/2022 | MODEL DU50HFA



Installed Options

Component Identification

Label	Description	Location
MT-01	Fan Motor	[3]
SC-01	RTC-FSC-1	[1]
SV-01	Main disconnect switch	[3]
TR-01	24VAC 20VA Transformer	[2]

MOTOR INFO

EXHAUST 0.5HP-115V-1P-6.3FLA

ELECTRICAL INFORMATION

MOTOR/CTRL MCA: 10A
MOTOR/CTRL MOP: 15A

NOTES

—— DENOTES FIELD WIRING
—— DENOTES INTERNAL WIRING

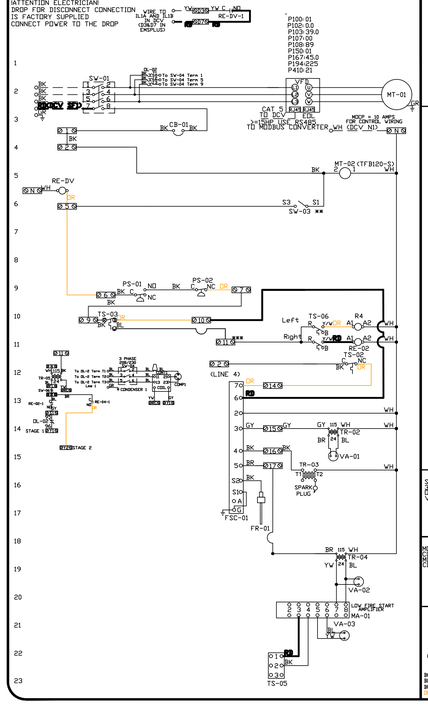
WIRE COLOR

BK - BLACK	YW - YELLOW		
BL - BLUE	GR - GREEN		
BR - BROWN	GY - GRAY		
OR - ORANGE	PR - PURPLE		
RD - RED	PK - PINK		
WH - WHITE			

Direct Fired Heater Wiring

JOB 5257667 - Rib Crib Generation 6 Proto -...

DRAWING NUMBER DF5257667-2 | SHIP DATE 7/20/2022 | MODEL A1-D.250-15D-MPU



Installed Options

Motorized Back Draft Damper
Single Point MPU Connection

Discharge Temp. Control
Cooling Thermostat and Relay

DCV Wiring

Component Identification

Label	Description	Location
CB-01	Flame roll out switch (Circuit breaker (Snap))	[2]
FR-01	Flame roll Freeze FSC	[1] [2] [4]
MA-01	Modulating amplifier	[2]
MT-01	Supply motor	[2]
MT-02	Damper motor	[3]
CL-02	Condenser 1 overload	[1] [2] [3]
PS-01	Low Airflow Switch	[3]
PS-02	High Airflow Switch	[3]
RC-02	Stage 1 Heat/Cool Relay	[1] [2] [3]
RE-DV	DCV Relay	[1] [2]
RE-04	Stage 2 Cooling Relay	[1] [2] [3]
ST-01	Supply motor contactor	[2] [7] [8]
SV-01	Main disconnect switch	[2]
SV-03	Damper end limit switch	[4]
SV-04	90 Deg Rotary Solenoid	[2] [7] [4]
SV-06	Overflow Switch	[2] [3]
TR-02	Power transformer(Pre)	[2]
TR-03	Ignition transformer	[4]
TR-05	Cond Transformer(Aux)	[2]
TS-02	High temp limit switch	[3]
TS-03	Inlaise Air Sensor	[3]
TS-05	Discharge Air Sensor	[2]
TS-06	Cooling Thermostat	[3]
VA-01	Pilot gas valve	[3]
VA-02	Main gas valve	[3]
VA-03	Modulating gas valve	[3]

MOTOR INFO

SUPPLY 3HP-208V-3P-8.6FLA
MTR COND1 208/230V-3P-11.9FLA
MOTOR/CTRL MCA: 25A
VFD PART: ESV22E2NGFXB571

ELECTRICAL INFORMATION

MOTOR/MOTOR CIRCUIT MCA: 24.7A
CONTROL CIRCUIT MCA: 25A
MOTOR/CTRL CIRCUIT MOP: 35A
CONTROL CIRCUIT MOP: 15A

NOTES

—— DENOTES FIELD WIRING
—— DENOTES INTERNAL WIRING

** TERMINALS S4 AND S6 USED ON NF & AF SERIES ACTUATORS
*** TERMINAL 11 PROVIDES COOLING

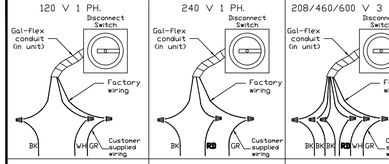
WIRE COLOR

BK-BLACK	YW - YELLOW	RD - RED	
BL-BLUE	GR - GREEN	WH - WHITE	
BR - BROWN	GY - GRAY	PK - PINK	
OR - ORANGE	PR - PURPLE		

Installation Wiring

JOB 5257667 - Rib Crib Generation 6 Proto -...

DRAWING NUMBER RP5257667-2 | SHIP DATE 7/20/2022 | MODEL A1-D.250-15D-MPU

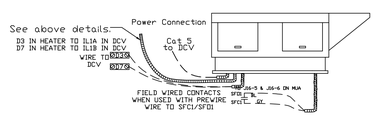


Installed Options

Single Point MPU Connection

DCV Connections

Field Wired Switch



NOTES

WIRE COLOR

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THIS DRAWING IS PROVIDED FOR REFERENCE ONLY. HOOD CONTRACTOR SHALL SELECT AND CERTIFY ALL EXHAUST/M.U. AIR FANS. ALL SYSTEMS SHALL MEET ALL APPLICABLE REQUIREMENTS OF STATE AND LOCAL CODES AND OTHER REQUIREMENTS AS SHOWN IN DESIGN DRAWINGS.

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

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12101 East 51st Street, Suite 101A, Tulsa, OK, 74146 PHONE: (918) 258-0291 FAX: (919) 227-5947 EMAIL: reg80@captiveaire.com
www.captiveaire.com

Rib Crib Generation 6 Proto - Lake City, FL

LAKE CITY, FL, 32025

DATE: 7/20/2022

DWG.#: 5257667

DRAWN BY: RJH-80

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

MASTER DRAWING

SHEET NO. 7

LMHT Project No. 22160.00

INRD national restaurant designers
ARCHITECTS & ENGINEERS
7208 ACC Blvd. 2nd Floor, Raleigh, NC 27617
ph: 919 544 0087 fax: 919 544 9399
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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: HOOD DRAWINGS

Revisions

THRU ADDENDUM " "

PROJECT DATE 08/12/2022

Drawn By

Checked By

Sheet No. **M707**

Drawing File: C:\Users\rchudson\appdata\local\temp\AcPublish_9472\M707.dwg
Plotted by: rchudson
Plotted Date: Aug 12, 2022 - 8:52am

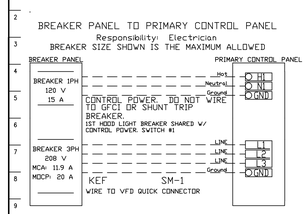
ELECTRICAL PACKAGE – JOB#5257667

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	(1)	HP	VOLT	FLA
1		DCV-1111	UTILITY CABINET LEFT	03 - UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	KEF	EXHAUST	3	3.000	208	9.5
				HOOD # 1	1 FAN		MAU	SUPPLY	3	3.000	208	8.6

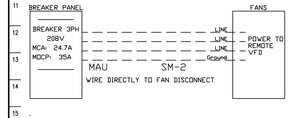
JOB NO 5257667 | MODEL NUMBER DCV-1111 | JOB NAME Rib Crib Generation 6 Proto –... | DRAWN BY | DATE 7/20/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

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

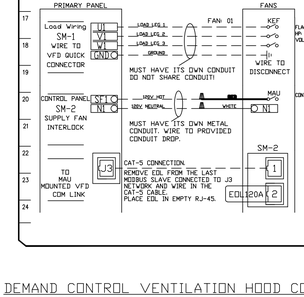
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

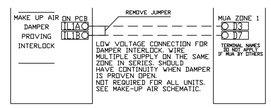


BREAKER PANEL TO FANS
Responsibility: Electrician

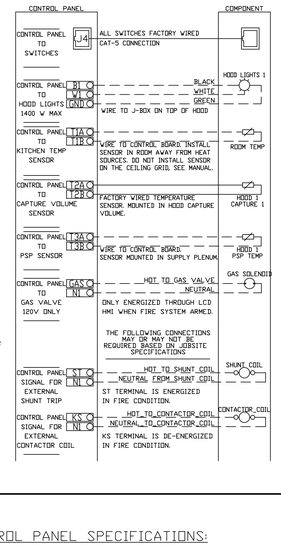


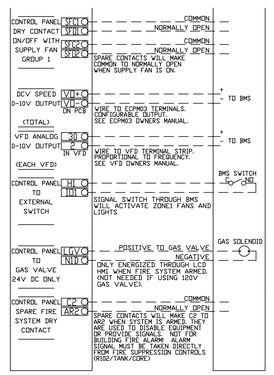
CONTROL PANEL TO FANS
Responsibility: Electrician



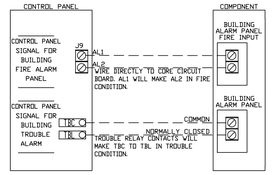


CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician





CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR



JOB NO 5257667 | MODEL NUMBER DCV-1111 | JOB NAME Rib Crib Generation 6 Proto –... | DRAWN BY | DATE 7/20/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-3

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 40/40 Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE Board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood preserve panel.

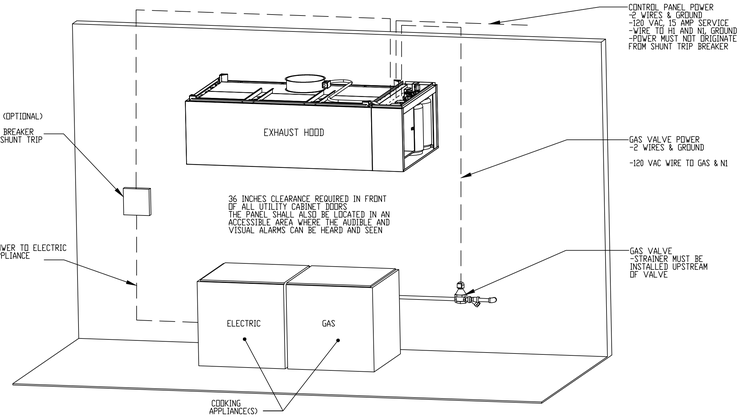
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

ELECTRICIAN:
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

FS-1: MASTER

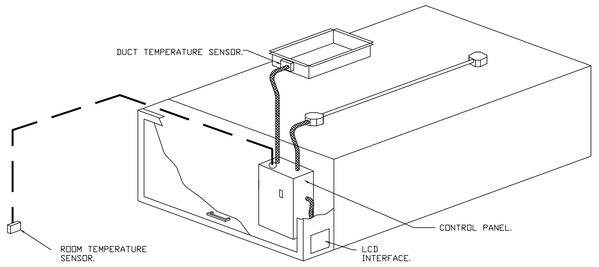
ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
GAS VALVE	GAS & N1 (IF 120 VAC)	RED/RED/GREEN	OR 120 VAC	< 1.0 AMPS	IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

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REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

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ph: 919 544 0087 fax: 919 544 9399
A Division of LMHT Associates

LMHT Project No. 22160.00

FOR REFERENCE ONLY

Rib Crib Generation 6 Proto - Lake City, FL
LAKE CITY, FL, 32025

DATE: 7/20/2022
DWG.#: 5257667
DRAWN BY: RJH-80
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 8

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RIB CRIB GEN 6 PROTOTYPE
Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055
Drawing: HOOD DRAWINGS

Revisions
THRU ADDENDUM " "

PROJECT DATE 08/12/2022
Drawn By
Checked By
Sheet No. **M708**

Drawing File: C:\Users\rchudson\appdata\local\temp\AcPublish_9472\M708.dwg
Plotted by: rchudson
Plotted Date: Aug 12, 2022 - 8:51am

ELECTRICAL ROUGH-IN NOTES

1. ALL FINAL POWER CONNECTIONS SHOWN IN THESE DRAWINGS ARE ACTUAL REQUIREMENTS OF THE EQUIPMENT AND ARE SHOWN IN THEIR APPROXIMATE LOCATION.
2. LOCATION OF ROUGH-IN STUB-UP DIMENSION IS SHOWN AS ABOVE THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
3. FABRICATED EQUIPMENT CONTAINING A BREAKER PANEL OR EQUIPMENT INDICATED SO SHALL BE PRE-WIRED BY FABRICATOR READY FOR FIELD CONNECTION TO ONE POINT BY ELECTRICAL CONTRACTOR.
4. ELECTRICAL CONTRACTOR SHALL INSTALL ALL SWITCHES, STARTERS, DISCONNECTS, ETC. FOR ALL MANUFACTURER PROVIDED EQUIPMENT AND ICE MACHINES UNLESS NOTED OTHERWISE, ALL DISCONNECTS OR LOCK-OUT DEVICES, STARTERS, ETC. TO MEET N.E.C. AND O.S.H.A. STANDARDS.
5. ELECTRICAL CONTRACTOR TO PROVIDE CONTROL WIRING AND ELECTRICAL SERVICE FOR REMOTE REFRIGERATION SYSTEMS FOR WALK-IN BOXES, ALSO COORDINATE LOCATION FOR SERVICE WITH ELECTRICAL ENGINEER.
6. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL WRAP AROUND HEATER CABLE ON ALL MANUFACTURER PROVIDED EVAPORATOR DRAIN LINES IN WALK-IN FREEZER.
7. ELECTRICIAN TO BRANCH TO CONNECTION WHERE REQUIRED AND TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND ICE MACHINES. ALSO DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURES INCLUDING INTER-WIRING TO APPLIANCES AS REQUIRED BY THE SPECIFICATIONS AND/OR DRAWINGS.
8. ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAINLESS STEEL. THOSE REQUIRED IN BUILDING STRUCTURE ARE TO BE FURNISHED BY ELECTRICIAN, WITH RECEPTACLE. ALL MAIN BREAKER PANELS AND DISCONNECT SWITCHES REQUIRED BY OTHER ELECTRICAL DRAWINGS ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT TIME OF INSTALLATION.
9. IF ELECTRICAL COOKING EQUIPMENT IS SPECIFIED, ELECTRICAL CONTRACTOR TO PROVIDE TIE-IN WIRING BETWEEN FIRE PROTECTION BOTTLE CONTROL HEAD, MICRO-SWITCH AND COOKING EQUIPMENT TO COMPLY WITH APPLICABLE LOCAL CODE REQUIREMENTS FOR EMERGENCY SHUTDOWN OF ENTIRE COOKLINE. SHUNT TRIP CIRCUITRY MAY BE REQUIRED, SEE ELECTRICAL PLANS.
10. ELECTRICAL CONTRACTOR TO INSTALL AND WIRE EXTRA LIGHTS IN WALK-IN COOLERS AND FREEZERS AS REQUIRED, THRU DOOR SWITCH.
11. VERIFY WITH ARCHITECT OR OWNER'S REPRESENTATIVE, FINAL EQUIPMENT REQUIREMENTS BEFORE ORDERING MATERIAL. REVISIONS TO EQUIPMENT OR PERFORMANCE REQUIREMENTS MAY AFFECT THE ELECTRICIANS WORK.
12. ALL WORK, RELATING TO THE INSTALLATION AND HOOKUP OF THE SPECIFIED EQUIPMENT, IS TO BE PERFORMED IN FULL ACCORDANCE WITH APPLICABLE LOCAL, CITY, COUNTY, STATE, AND FEDERAL CODES AND ALL OTHER GOVERNMENTAL REGULATORY REQUIREMENTS.
13. ELECTRICAL CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS NECESSARY TO PROVIDE SERVICE TO LOCATIONS AND EQUIPMENT AS SHOWN IN THESE DRAWINGS UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE FOR MAKING FINAL CONNECTIONS TO EQUIPMENT AND FITTINGS SUPPLIED AND INSTALLED BY FSEC.
14. MATCH VENDOR HIGH TEMPERATURE WIRING FOR HEAT LAMPS. ENSURE NEAT INSTALL FOR MAINTENANCE PURPOSES.

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE:

PRESCRIPTIVE ✓ PERFORMANCE ____

LIGHTING SCHEDULE
- LAMP TYPE REQUIRED IN FIXTURE: SEE LIGHTING FIXTURE SCHEDULE
- NUMBER OF LAMPS IN FIXTURE: SEE LIGHTING FIXTURE SCHEDULE
- BALLAST TYPE USED IN THE FIXTURE: SEE LIGHTING FIXTURE SCHEDULE
- NUMBER OF BALLASTS IN FIXTURE: SEE LIGHTING FIXTURE SCHEDULE
- TOTAL WATTAGE PER FIXTURE: SEE LIGHTING FIXTURE SCHEDULE
- TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 2,546 W VS. 2,418 W
- TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: 539 W VS. 1,746 W

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS): NONE
- MOTOR HORSEPOWER:
- NUMBER OF PHASES:
- MINIMUM EFFICIENCY:
- MOTOR TYPE: BY OTHERS
- # OF POLES:

ABBREVIATIONS

(ABBREVIATIONS APPLY ONLY WHEN USED ON DRAWINGS)

A,AMP	AMPERE(S)
AC	ALTERNATING CURRENT
AB	ABOVE COUNTER OR CASEWORK
AF	AMPERE FRAME (CIRCUIT BREAKER)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFU	AMPERE FUSE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AS	AMMETER SWITCH
AM	AMMETER
AT	AMPERE TRIP (CIRCUIT BREAKER)
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
A/V	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BKR	BREAKER
BLDG	BUILDING
BP	BYPASS
BSC	BIOLOGICAL SAFETY CABINET
C	CONDUCTOR
C/ CDT	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
COAX	COAXIAL CABLE
COL	COLUMN
COMM	COMMUNICATIONS
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CPU	CENTRAL PROCESSING UNIT
CR	CARD READER
CRT	CATHODE RAY TUBE MONITOR
CS	CONTROL SWITCH
CU	COPPER
CUH	CABINET UNIT HEATER
CT	CURRENT TRANSFORMER
D	DEPTH
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEMO	DEMOLITION
DIA	DIAMETER
DN	DOWN
DISC	DISCONNECT
DIST	DISTRIBUTION
DWG	DRAWING
E	ELECTRIC / EMERGENCY
EC	ELECTRICAL CONTRACTOR, EMPTY CONDUIT
EF	EXHAUST FAN
EL	ELEVATION
ELECT,ELEC	ELECTRICAL
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
EOL	END OF LINE DEVICE
EPO	EMERGENCY POWER OFF
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXISTING TO BE RELOCATED
EWC	ELECTRIC WATER COOLER
EX	EXISTING TO REMAIN
F	FLUSH
FA	FIRE ALARM
FCC	FIRE COMMAND CENTER
FCU	FAN COIL UNIT
FDDI	FIBER DISTRIBUTED DATA INTERFACE
FDR	FEEDER
FH	FUME HOOD
FIP	FIELD INTERFACE PANEL
FIXT	FIXTURE
FLA	FULL LOAD AMPERES
FLR,FL	FLOOR
FO	FIBER OPTIC
FPB	FAN POWERED BOX
FPD	FLAT PANEL DISPLAY
FSD	FIRE SMOKE DAMPER
FU	FUSE
FUT	FUTURE
FVR	FULL VOLTAGE REVERSIBLE
FVNR	FULL VOLTAGE NON REVERSIBLE
G	GROUND (CONDUCTOR)
GA	GAUGE
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND,GRD	GROUND
GPS	GENERATOR PARALLELING SWITCHGEAR
GRC	GALVANIZED RIGID STEEL CONDUIT
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC SWITCH
HP	HORSEPOWER
HT	HEIGHT
HWP	HOT WATER PUMP
HV	HIGH VOLTAGE
HZ	HERTZ
I/INST	INSTANTANEOUS
ICM	INTERCOM MASTER
ICR	INTERCOM REMOTE
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INSTR	INSTRUMENT/INSTRUMENTATION
JB,JBOX	JUNCTION BOX
K	KEY LOCK (KEY INTERLOCK SCHEME)
KA	KILOAMPERES
KCM	THOUSAND CIRCULAR MILS
KEF	KITCHEN EXHAUST FAN
KM	KITCHEN MONITOR
KW	KILOWATTS
KWH	KILOWATT HOUR
KV	KILOVOLTS
KVA	KILO VOLT-AMPERES
KVAR	KVA REACTIVE
L	LOCKING TYPE/LOAD
LA	LIGHTNING SURGE ARRESTER
LAB	LABORATORY
LAN	LOCAL AREA NETWORK
LT	LONG TIME
LTG	LIGHTING
LP	LIGHTING PANEL
M	METER
mm	MILLIMETER
mm2	MILLIMETERS SQUARED
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MINERAL-INSULATED
MIN	MINIMUM
MIC	MEDIA INTERFACE CONNECTOR
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MPS	MANUAL PULL STATION
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL/NORMAL
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY-CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY-OPEN / NUMBER
NORM	NORMAL
NTS	NOT TO SCALE
NWP	NETWORK PROTECTOR
OCB	OIL CIRCUIT BREAKER
OL	OVERLOAD(S)
OC	ON-CENTER
OS	OCCUPANCY SENSOR
P	POLE
PA	PUBLIC ADDRESS SYSTEM
PB	PUSHBUTTON/PULLBOX
PBX	PRIVATE BRANCH EXCHANGE
PC	PHOTOCELL
PDU	POWER DISTRIBUTION UNIT
PF	POWER FACTOR
PFCC	POWER FACTOR CORRECTION CAPACITORS
PH.(	PHASE
PNL	PANEL
PP	POWER PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYLCHLORIDE
PWR	POWER
QTY	QUANTITY
RE	REMOVE EXISTING
REC,RECPT	RECEPTACLE
REPO	REMOTE E.P.O.
REQ,REQD	REQUIRED
RF	RETURN FAN
RIM	READER INTERFACE MODULE
RM	ROOM
RO	REVERSE-OSMOSIS
RP	RECEPTACLE PANEL
RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
RTU	REMOTE TERMINAL UNIT
RUPS	ROTARY UPS
SC	SECURITY CAMERA
SCA	SHORT CIRCUIT AMPERES
SD	SMOKE DETECTOR
SEC	SECONDARY
SF	SUPPLY FAN
SF6	SULFERHEXAFLORIDE
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SPKR	SPEAKER
SS	STAINLESS STEEL/SOLID STATE
ST	SHUNT TRIP/SHORT TIME
STD	STANDARD
STP	SHIELDED TWISTED PAIR
STS	STATIC TRANSFER SWITCH
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
SYS	SYSTEM
T	TRANSFORMER
TB	TERMINAL BLOCK
TELECOM	TELECOMMUNICATIONS
TDR	TIME DOMAIN REFLECTOMETER
TEF	TOILET EXHAUST FAN
TEL,TELE	TELEPHONE
TR	TELEPHONE ROOM
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UC	UNDER-COUNTER
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT(S)
VA	VOLT-AMPERES
VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VS	VOLTMETER SWITCH
W/	WITH
W	WIRE/WATT/ WIDTH
WCR	WITHSTAND CURRENT RATING
WM	WATTMETER
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER
XP	EXPLOSION-PROOF
ZI	ZONE INTERLOCKING
Δ,Y	DELTA-WYE
2S2W	TWO SPEED TWO WINDING
2SR2W	TWO SPEED REVERSING TWO WINDING

GENERAL NOTES

1. PROVIDE ALL REQUIRED LABOR AND MATERIALS FOR A TEMPORARY CONSTRUCTION SERVICE AS REQUIRED.
2. ENSURE ALL PANELBOARDS HAVE REQUIRED VOLTAGE WARNING LABELS AND ARC FLASH WARNING LABELS. INSTALL NEW LABEL IF EXISTING LABEL IS DAMAGED OR MISSING FOR ALL PANELBOARDS.
3. PRIOR TO INSTALLATION OF ROUGH ELECTRICAL WIRING, CONTRACTOR SHALL CHECK NAMEPLATE DATA OF ALL H.V.A.C. EQUIPMENT, WATER HEATERS, AND OTHER EQUIPMENT, IN ORDER TO OBTAIN CORRECT WIRE SIZES, VOLTAGES, AND OVERCURRENT PROTECTION. ADEQUATE SERVICE CAPACITY MUST BE PROVIDED. SUBJECT TO ELECTRICAL INSPECTION.
4. COORDINATE ALL REQUIREMENTS WITH LOCAL ELECTRICAL UTILITY PRIOR TO BID. PROVIDE ALL MATERIAL AND LABOR NECESSARY TO COMPLY WITH LOCAL REQUIREMENTS.
5. PROVIDE EACH 120V, 20A BRANCH CIRCUIT FROM LIGHTING AND APPLIANCE PANELBOARDS WITH A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR. NO SHARED NEUTRALS ARE PERMITTED UNLESS OTHERWISE INDICATED. BRANCH CIRCUIT HOME RUN WIRING MAY BE COMBINED UP TO MAXIMUM OF (6) CURRENT CARRYING CONDUCTORS IN A CONDUIT SIZED PER NFPA 70.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LUMINAIRE LOCATIONS.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF LUMINAIRES WITH OTHER TRADES.
8. FOR LOCATION OF MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLANS.
9. AN 'AB' BESIDE A DEVICE INDICATES MOUNTED ABOVE CASEWORK OR COUNTER, A 'UC' BESIDE A DEVICE INDICATES MOUNTED UNDER COUNTER.
10. PROVIDE # 10 AWG PHASE, NEUTRAL, AND GROUND CONDUCTORS FOR 120 VOLT, 20 AMPERE BRANCH CIRCUITS EXCEEDING 100 FEET.
11. RIGID EMT TO BE USED ABOVE CEIING AND INSIDE WALLS. MC CABLE USED FOR WHIP CONNECTIONS WITHIN 6 FEET UNO.

CONTRACTOR NOTE

DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTOR'S COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

MOUNTING HEIGHT NOTES

1. UNLESS OTHERWISE INDICATED, OUTLET BOXES IN WALLS SHALL BE LOCATED WITH CENTERLINE AT THE FOLLOWING ELEVATIONS ABOVE THE FINISHED FLOOR LINE. VERIFY ALL HEIGHTS PRIOR TO ACTUAL LAYOUT OF WORK WITH THE GENERAL CONSTRUCTION CONTRACTOR.
2. THE FOLOWING MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS.

1.	SWITCH OUTLETS	48" AFF
2.	BRACKET OUTLETS (OTHER)	78" AFF
3.	RECEPTACLE OUTLETS (U.O.N.)	12" AFF
4.	RECEPTACLE OUTLETS, MECHANICAL ROOMS	36" AFF
5.	RECEPTACLE OUTLETS MOUNTED, ABOVE CASEWORK/CABINETS	48" AFF
6.	CLOCK OUTLETS	12" BELOW CEILING
7.	MOTOR STARTERS AND SAFETY SWITCHES	54" AFF
8.	PANELBOARDS (TOP)	78" AFF

ELECTRICAL SYMBOLS LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
	RECESSED DOWNLIGHT OR PENDANT FIXTURE
	LINEAR SURFACE/WALL MOUNTED LIGHT FIXTURE
	LINEAR SURFACE/WALL MOUNTED LIGHT FIXTURE WITH EMERGENCY
	2X4 RECESSED LIGHT FIXTURE
	SECURITY WALL SCONCE
	LUMINAIRE POWERED BY EMERGENCY SOURCE (TYPICAL)
	WALL MOUNTED FIXTURE
	CEILING MOUNTED EXIT SIGN, SHADED AREAS INDICATE NUMBER OF FACES, DIRECTION ARROWS AS INDICATED
	INTERIOR PENDANT LIGHT FIXTURE
	INTERIOR / EXTERIOR CEILING FAN WITHOUT LIGHT KIT
$	SWITCH, SINGLE POLE
$X	"X" REFER TO SWITCH NOTES
OS	OCCUPANCY SENSOR MOUNTED IN CEILING
	RECEPTACLE, DUPLEX
	RECEPTACLE, DOUBLE DUPLEX
IG	RECEPTACLE, ISOLATED GROUND
GFI	GROUND FAULT INTERRUPT RECEPTACLE
	RECEPTACLE, SPECIAL
J	JUNCTION BOX (WALL MOUNTED/CEILING MOUNTED)
J	JUNCTION BOX (WALL MOUNTED)
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	PANELBOARD (SURFACE MOUNTED)
	HARD-WIRED CONNECTION
SP	SPEAKER
	TELEPHONE
	VOIC/DATA
	DATA
	WIRE/CONDUIT EXPOSED
	WIRE/CONDUIT CONCEALED
L1-XX	CIRCUIT,HOME RUN INDICATION WITH PANEL DESIGNATION

SWITCH NOTES:

"a" = LOWER CASE LETTER INDICATES SWITCHING CIRCUIT ID
"3" = THREE-WAY SWITCH 20A, 120-277VAC
"4" = FOUR-WAY SWITCH 20A, 120-277VAC
"M" = MANUAL MOTOR STARTER SWITCH
"D" = DIMMER CONTROL
"P" = SINGLE POLE SWITCH WITH PILOT LIGHT
"K" = SINGLE POLE SWITCH (KEY-OPERATED)
"T" = SINGLE POLE SWITCH WITH TIMER
"OS" = OCCUPANCY/VACANCY SENSOR WALL SWITCH(IR) WITH MANUAL OVERRIDE

LMHT Project No. 22160.00

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JOSEPH RAY THOMPSON LICENSED No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055

Drawing: ELECTRICAL NOTES

Revisions

THRU ADDENDUM " "

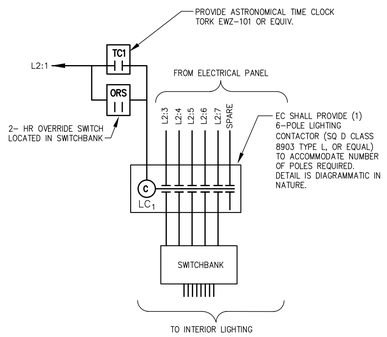
PROJECT DATE 08/12/2022

Drawn By JP

Checked By JP

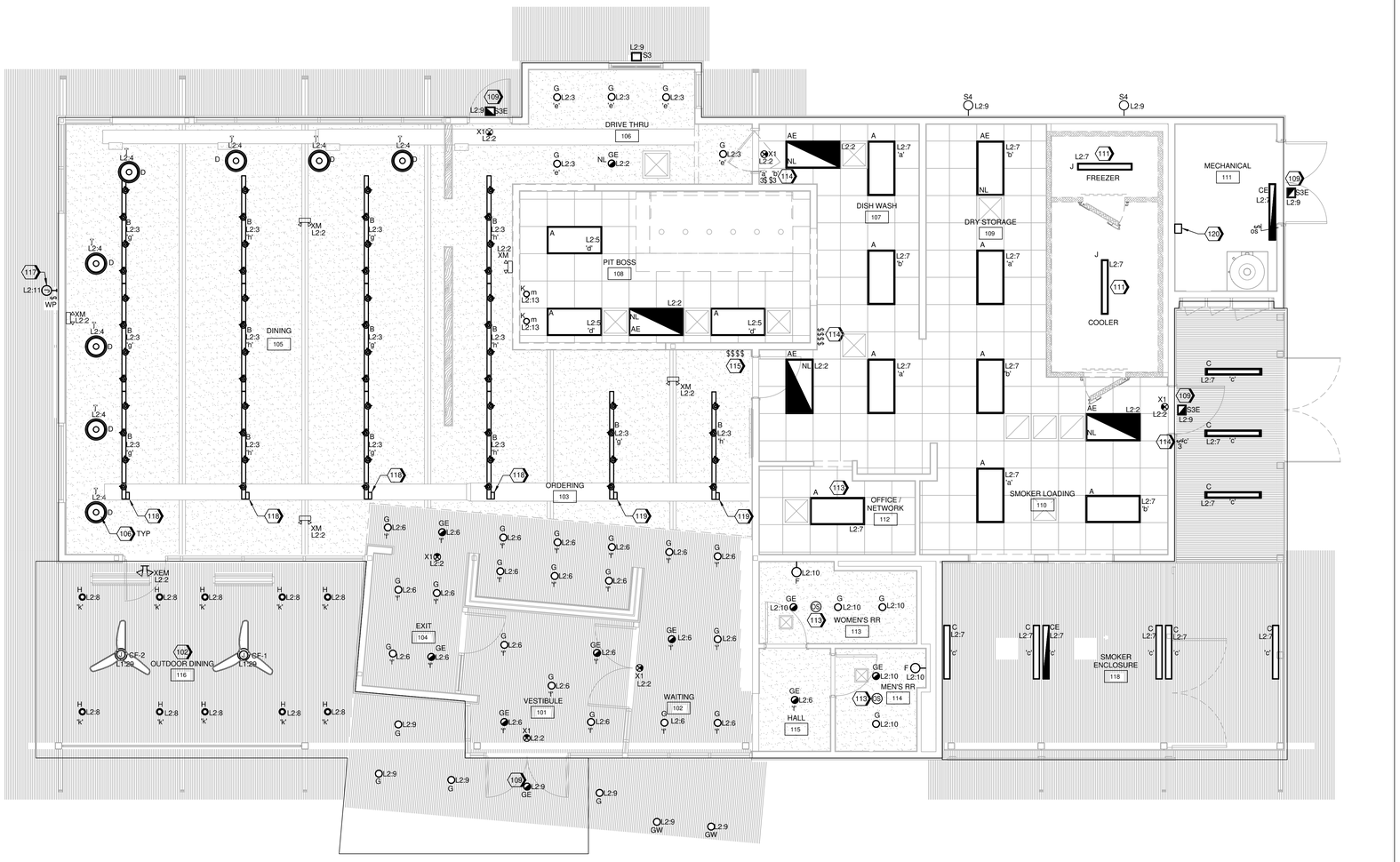
Sheet No. **E001**

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_8472\E001.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:53am



2 INTERIOR LIGHTING CONTROL DIAGRAM

NTS



1 LIGHTING PLAN

1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

B. DINING ROOM LIGHTING PLAN CORRESPONDS TO ARCHITECHTUAL REFLECTED CEILING PLAN, ELECTRICAL CONTRACTOR SHALL REFER TO THE PLANS PROVIDED BY INTERIOR DECOR.

C. ALL LIGHTING FIXTURES SHALL BE SWITCHED LOCALLY, CONTROLLED BY OCCUPANCY SENSOR OR CONTACTOR CONTROLLED UNLESS OTHERWISE NOTED.

D. SPECIAL SWITCHES SHALL BE INSTALLED AS NOTED.

E. REFER TO ARCHITECTURAL CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES AND HVAC DIFFUSER LOCATIONS PRIOR TO ANY ELECTRICAL ROUGH-IN.

H. ELECTRICAL CONTRACTOR SHALL DETERMINE FINAL CONDUCTOR LENGTHS AND SIZES AS PER N.E.C. SIZE OF CONDUCTORS SHALL BE ADJUSTED FOR VOLTAGE DROP AS REQUIRED BY N.E.C.

I. ALL PENETRATIONS THROUGH THE WALK IN COOLER/FREEZER ARE TO BE SEALED WITH SILICONE AROUND THE INTERIOR AND EXTERIOR OF THE CONDUITS TO PREVENT CONDENSATION.

GENERAL NOTES

J. ELECTRICAL CONTRACTOR SHALL FEED SIGNAGE AND SECURITY LIGHTING WITH SEPERATE CIRCUITS ON ANY COMMON CONDUIT RUN. FOR EXAMPLE, DO NOT FEED A POLE TOP SECURITY LIGHT IN THE SAME CIRCUIT WITH THE LARGE SIGN. SEPERATE ALL SIGNAGE AND SECURITY LIGHTING.

K. REFER TO ARCHITECTURAL ELEVATIONS FOR BUILDING SIGN LOCATIONS. COORDINATE ALL J-BOX LOCATIONS WITH SIGN LOCATIONS PRIOR TO INSTALLATION.

L. FOR LIGHTS WITH EMERGENCY BATTERY BACK-UP: NORMAL DUTY BALLAST TO BE SWITCHED. EMERGENCY BALLAST TO OPEN UPON POWER FAILURE ONLY.

M. EXIT SIGNS AND NIGHT LIGHTS SHALL NOT BE SWITCHED.

N. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL, STATE,AND LOCAL REQUIREMENTS.WHERE CONFLICTS ARISE,THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.

KEYNOTES

102	CONDUIT AND CIRCUITRY IN THIS AREA SHALL BE CONCEALED FROM VIEW.
106	FIELD VERIFY STEM LENGTH PRIOR TO ORDERING, VERIFY SUSPENDED HEIGHT AFF WITH ARCHITECTUAL ELAVATIONS.
109	EMERGENCY LIGHT TO BE SWITCHED AS INDICATED. EMERGENCY BATTERY PACK TO ENERGIZE FIXTURE UPON POWER FAILURE.
111	LIGHTING FIXTURES PROVIDED BY COOLER/FREEZER MANUFACTURER. TYPICAL.
113	CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTING WITHIN THIS SPACE. PROVIDE PASSIVE INFRARED LINE VOLTAGE HUBBELL #PIR10P CEILING MOUNTED SERIES OR EQUIVALENT, WITH A MAXIMUM DELAY SETTING OF 30 MINUTES.
114	PROVIDE WALL SWITCHES TO CONTROL GENERAL LIGHTING CIRCUITS. EACH SWITCH SHALL HAVE A NAME PLATE, 3 LAYER LAMINATED PLASTIC WHITE ON BLACK, 1/8" LETTERS. REFER TO DETAIL 1/E601.
115	PROVIDE WALL SWITCHES TO CONTROL OUTDOOR DINING HEATERS AND CEILING FANS. INDICATE WHICH HEATER OR CEILING FAN IS CONTROLLED ON EACH SWITCH WITH A NAME PLATE, 3 LAYER LAMINATED PLASTIC WHITE ON BLACK, 1/8" LETTERS.
117	PROVIDE CIRCUIT AND JUNCTION BOX TO BUILDING LED SIGN. RUN CIRCUITS VIA LIGHTING CONTACTOR. COORDINATE EXACT LOCATION OF J-BOXES WITH ACTUAL LOCATION OF RESPECTIVE SIGNAGE, COORDINATE EXACT LOCATION OF SIGN WITH ARCHITECTUAL PLANS. REFER TO E501 FOR LIGHTING CONTROL DIAGRAM.
118	EC SHALL PROVIDE AND INSTALL 240W CURRENT LIMITER FOR TRACK LIGHT
119	EC SHALL PROVIDE AND INSTALL 60W CURRENT LIMITER FOR TRACK LIGHT
120	EC SHALL INSTALL ASTRONOMICAL TIME CLOCK AND CONTACTOR AS SHOWN IN DETAILS 2/E101, THIS SHEET.

LMHT Project No. 22160.00

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NELSON RAY THORNTON JR. LICENSED No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING CENTURION WAY LAKE CITY, FLORIDA 32055

Drawing: LIGHTING PLAN

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JP

Checked By
JP

Sheet No.
E101

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\E101.dwg
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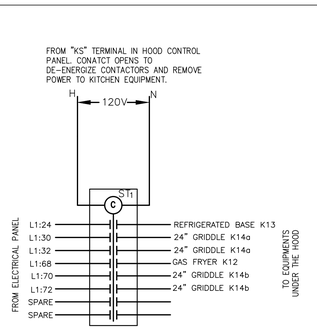
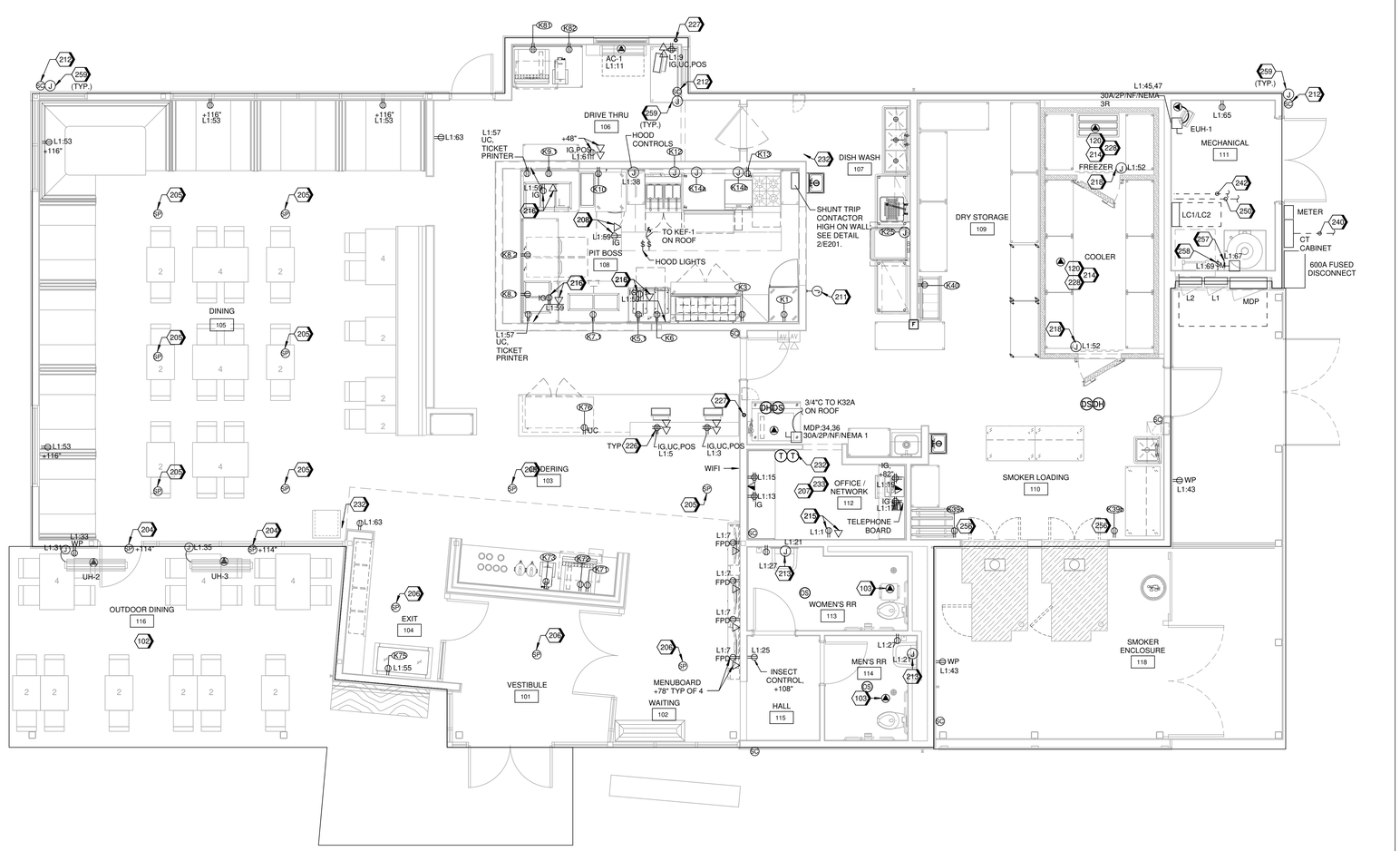


2 SHUNT TRIP WIRING DETAIL

NTS



1 POWER PLAN

1/4" = 1'-0"

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\E201.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:50am

GENERAL NOTES

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

B. VERIFY ALL POWER AND TELEPHONE COMPANY REQUIREMENTS PRIOR TO ALL INSTALLATIONS.

C. PROVIDE AND LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.

D. ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS ONLY SHOWN FOR REFERENCE. COORDINATE ALL KITCHEN RECEPTACLES(S), EQUIPMENT CONNECTIONS, AND INSTALLATION WITH KITCHEN DRAWINGS AND EQUIPMENT SUPPLIER. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR ADDITIONAL EQUIPMENT LISTING AND REQUIREMENTS.

E. ALL ISOLATED GROUND JUNCTION BOXES, LOCATED ABOVE CEILING FOR REGISTERS, SHALL BE LABELED "REGISTER."

F. E.C. SHALL PROVIDE ELECTRICAL HOOKUP OF ALL OWNER/EQUIPMENT SUPPLIER SUPPLIED PRODUCTS.

G. E.C. SHALL DO THE FINAL HOOKUP FOR THE ELECTRICAL NEEDS OF THE KITCHEN EQUIPMENT, WALK-INS, BEVERAGE EQUIPMENT, AND ALL OWNER SUPPLIED EQUIPMENT/PRODUCTS. E.C. SHALL BE AVAILABLE FOR THE EQUIPMENT START-UP.

H. E.C. SHALL REFER TO AND COORDINATE ALL CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS WITH THE FOOD SERVICE AND MANUFACTURER DOCUMENTS FOR THE PLACEMENT OF ALL MATERIALS, IN CASE OF DISCREPANCIES BETWEEN THE FOOD SERVICE DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS AND OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.

GENERAL NOTES

J. ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE.

K. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE FOLLOWING LOCATIONS (PART B-OTHER THAN DWELLING UNIT KITCHENS) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. THIS INCLUDES RECEPTACLES ON 240-VOLT CIRCUITS, THREE-PHASE RECEPTACLES ON 208Y/120-VOLT THREE-PHASE CIRCUITS IN THOSE AREAS WOULD ALSO REQUIRE GFCI PROTECTION, PER NEC 210.8 (B) AND AHJ REQUIREMENTS.

L. REFER TO EQUIPMENT SCHEDULES FOR CONNECTION INFORMATION AND MOUNTING HEIGTS.

M. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL STATE AND LOCAL REQUIREMENTS.WHERE CONFLICTS ARISE,THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.

N. CONTRACTOR SHALL INSTALL SOOW CORDS WITH KELLUM STYLE STRAIN RELIEFS AND APPROPRIATE PLUGS FOR KITCHEN EQUIPMENT AS REQUIRED. COORDINATE ALL REQUIRMENTS WITH KITCHEN EQUIPMENT PROVIDER.

KEYNOTES

102	CONDUIT AND CIRCUITRY IN THIS AREA SHALL BE CONCEALED FROM VIEW.
103	CONNECT EXHAUST FAN TO OCCUPANCY SENSOR IN RESTROOM. EXHAUST FAN SHALL OPERATE WHEN LIGHTS ARE ON. REFER TO SHEET E101 FOR OCCUPANCY SENSOR LOCATION.
120	ONLY SEALTIGHT SHALL BE PERMITED IN WALK-IN COOLER/FREEZER. SEAL PER NEC 300.7(A).
204	EXTERIOR WALL MOUNTED SPEAKERS.EPISODE #ECS-AW70V-4-BLK MOUNTED BELOW PORCH BEAMS. PROVIDE 18 GAUGE PLENUM RATED SPEAKER WIRE BACK TO AMPLIFIER. PROVIDE SEPARATE VOLUME CONTROL IN OFFICE.
205	DROP SPEAKER QUAM #FM4X1/70 HUNG FROM EXPOSED RAFTERS. PROVIDE 22 GAUGE PLENUM RATED SPEAKER WIRE BACK TO AMPLIFIER.
206	SURFACE MOUNTED SPEAKER QUAM #C10X/870/WS/VC. PROVIDE 22 GAUGE PLENUM RATED SPEAKER WIRE BACK TO AMPLIFIER.
207	PROVIDE JBL #CSMA2120 MIXER-AMPLIFIER. SOUND SOURCE PROVIDED BY RIB CRIB DMX PROFUSION IO FOR PANDORA USING RCA OUTPUTS. AV SUPPLIER RESPONSIBLE FOR ALL CONNECTIONS AND SETUP.
208	MOUNT AGAINST HOOD 6" BELOW CEILING FOR HOOD MOUNTED KITCHEN MONITOR. VERIFY FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.
211	INSTALL RACO #294 4" OCTAGON BOX MOUNTED FLUSH IN WALL 48" ABOVE FINISHED FLOOR WITH 1/2" CONDUIT ROUTED TO ABOVE CEILING WITH PULLWIRE FOR ANSUL PULLSTATION.
212	SECURITY CAMERA LOCATION. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION. TYP.
213	PROVIDE STEP-DOWN TRANSFORMER FOR TOUCH-FREE VALVES.
214	REFER TO KITCHEN EQUIPMENT SUPPLIER FOR TIME CLOCK AND LOCAL DISCONNECTING MEANS IN FREEZER/COOLER.
215	WALL MOUNTED SECURITY MONITOR. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
216	MOUNT 6" BELOW CEILING FOR KITCHEN MONITOR. VERIFY FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.
218	PROVIDE POWER FOR WALK-IN DOOR HEAT TRACE AND CONDENSATE DRAIN HEAT TRACE TAPE. REFER TO MANUFACTURER FOR REQUIREMENTS.
226	ALL CASH REGISTERS SHALL HAVE SEPARATE ISOLATED GROUND WIRES TO THE PANELBOARD. COVER PLATE SHALL BE TYPE '302', STAINLESS STEEL.
227	PROVIDE (1) 4X4 PULL BOX @ 24" A.F.F., WITH (1) 2" PVC CONDUIT FOR CONNECTION TO POINT OF SALE LOCATIONS.
228	SILICONE SEAL ALL CONDUIT PENETRATIONS ABOVE AND BELOW, INSIDE AND OUT AT WALK-INS TO CONTROL CONDENSATION (TYPICAL).
232	PROVIDE 1/2" CONDUIT WITH PULLWIRE FOR TEMPERATURE & HUMIDITY CONTROLS TO 6" ABOVE THE CEILING FOR CONNECTION WITH RTU(S). COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT SENSOR LOCATIONS AND CONNECTION REQUIREMENTS.
233	COORDINATE ALL OFFICE WORK WITH OWNER PRIOR TO BEGINNING CONSTRUCTION.
240	(2) 3" UNDERGROUND (U.G.) SCHEDULE 40 CONDUITS TO TRANSFORMER, RE: 1/E601
242	(2) 2"C WITH PULL STRING UNDERGROUND TO MENUBOARD AND SPEAKER PEDISTAL FOR VOICE AND POWER. COORDINATE/VERIFY LOCATION WITH OWNER AND PROVIDER.
250	PROVIDE (2) 2" EMPTY CONDUIT WITH PULL STRING TO PROPERTY LINE FOR TELECOMMUNICATIONS. COORDINATE/VERIFY LOCATION WITH OWNER AND PROVIDER. ROUTE CONDUIT ABOVE ACCESSABLE CEILING SPACE TO TELEPHONE BOARD IN MANAGERS OFFICE.
256	PROVIDE WATERPROOFING, COVER, IN-USE RED DOT (#CKSUV).
257	EC SHALL PROVIDE A SINGLE PHASE, 120 VOLT, DISCONNECT FOR WH-1.
258	PROVIDE SAFETY DISCONNECT SWITCH, FOR RECIRCULATION PUMP, 120V/1P-20A, TOGGLE. EXTEND FROM DISCONNECT TO EQUIPMENT WITH LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
259	EC SHALL PROVIDE SECURITY CAMERA, VERIFY EXACT SPECIFICATIONS WITH MANUFACTURE INFORMATION AND CONNECT PER MANUFACTURE INSTRUCTIONS.

LMHT Project No. 22160.00

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8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: POWER PLAN

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JP

Checked By
JP

Sheet No.
E201

GENERAL NOTES

A. ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.

B. ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW IN THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0" OF DIRECT SOLAR EXPOSURE.

C. VERIFY ALL FUSE SIZES AND TYPES WITH THE MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

D. VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL PLANS AND INTERLOCK WITH FIREALARM.

E. REVIEW THE MECHANICAL PLANS FOR HVAC CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.

F. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL PLANS.

GENERAL NOTES

G. E.C. TO COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIRED) FOR INTERLOCK SEQUENCE FOR FIRE SUPPRESSION.

H. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

I. PROVIDE AND LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.

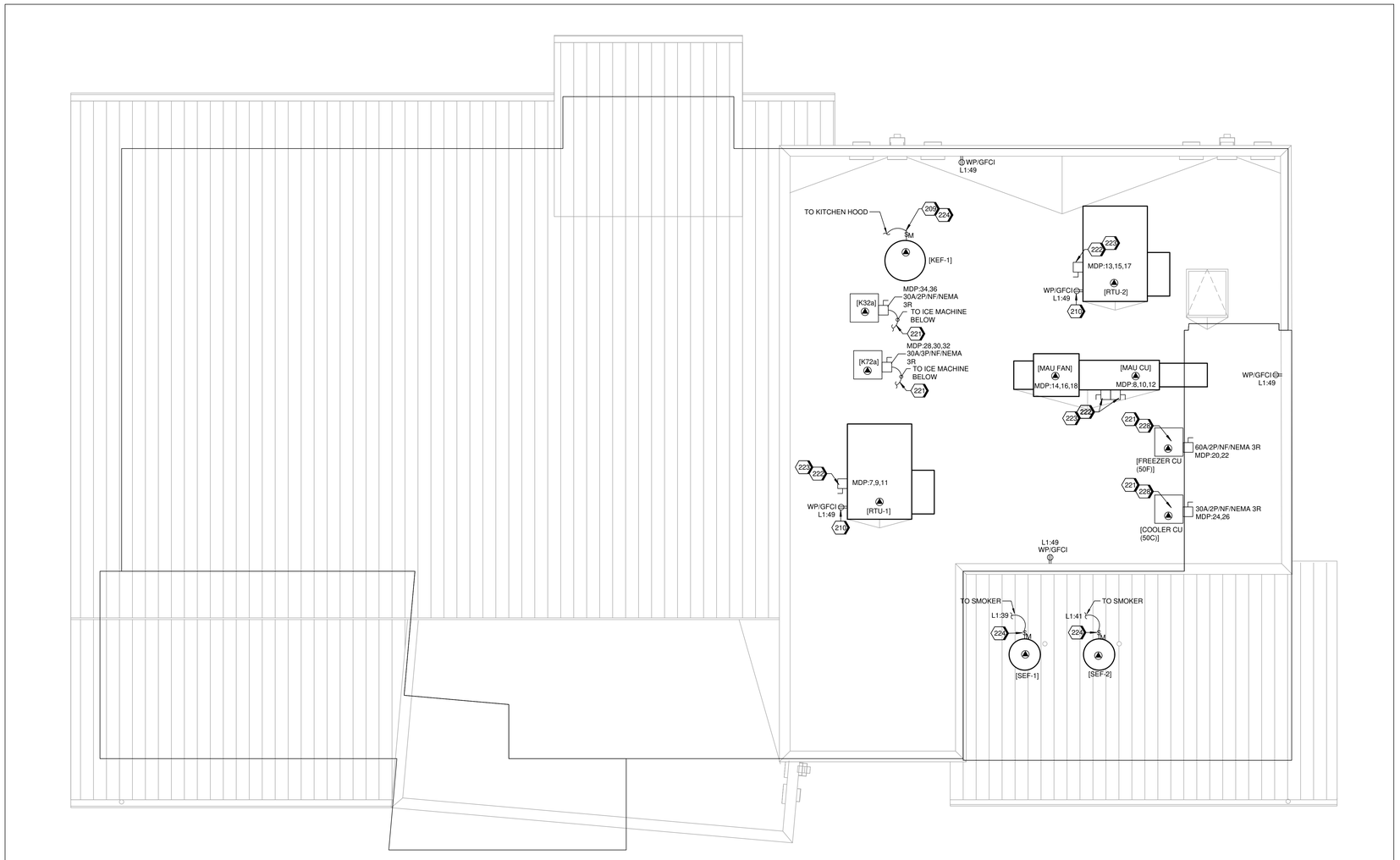
J. REFER TO SHEET E501 FOR EQUIPMENT SCHEDULES AND CONNECTION INFORMATION.

K. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL STATE,AND LOCAL REQUIREMENTS.WHERE CONFLICTS ARISE,THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.

M. CONTRACTOR SHALL INSTALL SOOW CORDS WITH KELLUM STYLE STRAIN RELIEFS AND APPROPRIATE PLUGS FOR THE FOLLOWING EQUIPMENT: TWO CORDS FOR EACH GRILL (4 TOTAL),ONE FOR EACH FRYER (5 TOTAL) AND ONE FOR OVEN.COORDINATE ALL REQUIRMENTS WITH KITCHEN EQUIPMENT PROVIDER.

KEYNOTES

209	CIRCUIT FEEDS FROM PANELBOARD, THROUGH HOOD CONTROL PANEL AND UP TO ROOF. REFER TO MECHAINCAL PLANS FOR KITCHEN HOOD SUBMITTAL DATA.
210	RECEPTACLE IS PROVIDED WITH UNIT. CONTRACTOR TO PROVIDE POWER WIRING.
221	ROUTE CONTROL WIRE TO CONTROLLER BELOW. COORDINATE WITH GENERAL CONTRACTOR.
222	PROVIDE 3/4" CONDUIT AND WIRE BELOW ROOF FOR RTU CONTROLS. ROOF PENETRATION TO BE MADE WITHIN UNIT CURB.
223	INTERGRAL DISCONNECT SWITCH, PROVIDED AND INSTALLED BY RTU MANUFACTURER.
224	DISCONNECT SWITCH PROVIDED BY FAN MANUFACTURER.
228	SILICONE SEAL ALL CONDUIT PENETRATIONS ABOVE AND BELOW, INSIDE AND OUT AT WALK-INS TO CONTROL CONDENSATION (TYPICAL).



1 ROOF POWER PLAN

1/4" = 1'-0"

LMHT Project No. 22160.00

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8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ROOF POWER PLAN

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JP

Checked By
JP

Sheet No.
E301

Drawing File: C:\Users\chudson\Appdata\Local\Temp\AcPublish_34472\E301.dwg
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Plotted date: Aug 12, 2022 - 8:53am

LIGHTING FIXTURE SCHEDULE

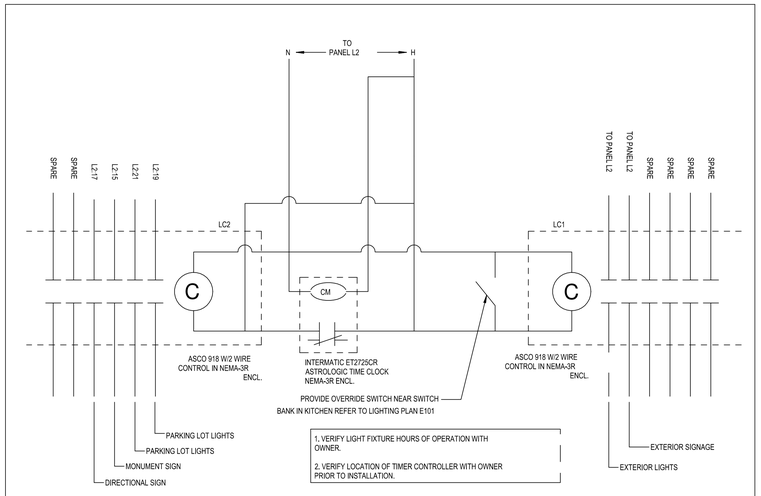
TYPE	MANUFACTURER	MODEL	DESCRIPTION	LAMP	VOLTAGE	WATTS	MOUNTING	COMMENTS
A	LITHONIA	2GTL 4 40L GZ10 LP840 ABC	GASKETED 2'X4' RECESSED TROFFER (4000K COLOR TEMP, 80 CRI)	LED	120 V	36	CEILING	
AE	LITHONIA	2GTL 4 40L GZ10 LP840 ABC E10WLCP	GASKETED 2'X4' RECESSED TROFFER WITH 90 MINUTE BATTERY PACK (4000K COLOR TEMP, 80 CRI)	LED	120 V	36	CEILING	
B	HALO	L80815NF9030MB, L652MB, L508MB	3" TRACK LIGHT (4000K COLOR TEMP)	LED	120 V	84	SURFACE	21 WATTS PER TRACK HEAD, 4 HEADS PER TRACK
C	LITHONIA	CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI	48" INDUSTRIAL STRIP (4000K COLOR TEMP, 80 CRI)	LED	120 V	20	SURFACE	
CE	LITHONIA	CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI E10WLCP	48" INDUSTRIAL STRIP (4000K COLOR TEMP, 80 CRI) WITH EMERGENCY	LED	120 V	20	SURFACE	
D	BARNLIGHT	BLE-S-WHB15-975-ST5[CUSTOM]-975-HSC-E26, 89984 - LED7DA19V2/827W	SUSPENDED PENDANT LIGHT, STEM LENGHTH VARIES PER LOCATION (2700K COLOR TEMP, 80 CRI)	LED	120 V	7	PENDANT	
F	BARNLIGHT	BLE-WVS2-DBWB-975-NA-NA	VANITY SCONCE	LED	120 V	11	WALL	MOUNT ABOVE RESTROOM MIRROR
G	LITHONIA	LDN4 40/10 LO4AR LSS MVOLT GZ10	4" RECESSED ROUND LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMP, 80 CRI)	LED	120 V	18	CEILING	
GE	LITHONIA	LDN4 40/10 LO4AR LSS MVOLT GZ10	4" RECESSE ROUND LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR WITH 90 MINUTE BATTERY PACK (4000K COLOR TEMP, 80 CRI)	LED	120 V	18	CEILING	
GW	LITHONIA	LDN4 40/15 L54AR LSW4 MVOLT GZ10	4" RECESSED ROUND LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMP, 80 CRI)	LED	120 V	18	CEILING	
H	LITHONIA	LDNY4CYL 40/10 L04 BR LSS MVOLT GZ10 PM WL DBL CYS	4" SURFACE PENDANT LIGHT (4000K COLOR TEMP)	LED	120 V	18	SURFACE	
J	WALK-IN VENDOR	FIXTURE PROVIDED BY WALK-IN SUPPLIER	VAPOR TIGHT LED FIXURE	LED	120 V	36	SURFACE	
K	HI-LITE	H-675-96/CB6-91/250W	SUSPENDED HEAT LAMP	LED	120 V	250	PENDANT	
S3	LITHONIA	WST LED P1 40K VW MVOLT DBLXD	FAÇADE EXTERIOR WALL SCONCE (4000K COLOR TEMP)	LED	120 V	11	SURFACE	
S3E	LITHONIA	WST LED P1 40K VW MVOLT E20WH DBLXD	FAÇADE EXTERIOR WALL SCONCE WITH 90MIN BATTERY BACKUP (4000K COLOR TEMP)	LED	120 V	11	SURFACE	
S4	SATCO	NUVO 62-142R1 BLK	2 LT LED SM UP & DOWN SCONCE (3000K COLOR TEMP)	LED	120 V	10	SURFACE	
X1	LITHONIA	LRP 1 RMR 120/277 EL N	EXIT SIGN WITH 90MIN BATTERY BACKUP	LED	120 V	2	CEILING	
XM	LITHONIA	EU2C ERE W T SQ M12	LED EMERGENCY LIGHT WITH 90MIN BATTERY BACKUP	LED	120 V	1	WALL/SURFACE	
XEM	LITHONIA	WLTU GY MR	EXTERIOR LED EMERGENCY LIGHT WITH 90MIN BATTERY BACKUP	LED	120 V	1	WALL	

EQUIPMENT CONNECTION SCHEDULE

TAG	DISCONNECT RATING (AMP/VOLTAGE/POLE/FUSE/NEMA RAITING)	HP	kW	FLA	STARTER TYPE	VOLTAGE/POLES	LOAD	CIRCUIT NUMBER	WIRE & CONDUIT	COMMENTS
AC-1		1/6	-	3	-	120 V/1	360 VA	L1-11	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
COOLER CU (50C)	30A/2P/NF/NEMA 3R	1	-	15	-	208 V/2	3120 VA	MDP-24,26	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
COOLER UC (50C)	30A/1P/NF/NEMA 3R	-	-	3.6	-	120 V/1	432 VA	L1-46	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
EF-1	-	1/8	-	3.3	-	120 V/1	400 VA	L1-23	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
EF-2	-	1/8	-	3.3	-	120 V/1	400 VA	L1-23	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
EUH-1	30A/2P/NF/NEMA 3R	-	5	24	-	208 V/2	4992 VA	L1-45,47	2#10, #10 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
FREEZER CU (50F)	30A/2P/NF/NEMA 3R	3	-	25	-	208 V/2	5200 VA	MDP-20,22	2#8, #10 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
FREEZER UC (50F)	30A/2P/NF/NEMA 3R	-	-	8.8	-	208 V/2	1830 VA	L1-48,50	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
K32	30A/2P/NF/NEMA 1	-	-	15.8	-	208 V/2	3286 VA	MDP-34,36	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
K32a	30A/2P/NF/NEMA 3R	-	-	2.6	-	208 V/2	541 VA	MDP-34,36	2#10, #10 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
K72a	30A/3P/NF/NEMA 3R	-	-	14	-	208 V/3	5043 VA	MDP-28,30,32	3#10, #10 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
KEF-1	-	-	-	9.5	-	208 V/3	3422 VA	MDP-19,21,23	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
MAU CU	-	-	-	14.5	-	208 V/3	5224 VA	MDP-8,10,12	3#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
MAU FAN	-	-	-	24.7	-	208 V/3	8898 VA	MDP-14,16,18	3#10, #10 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
RTU-1	-	-	-	45.3	-	208 V/3	16308 VA	MDP-7,9,11	3#4, #10 GND IN 1-1/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
RTU-2	-	-	-	38.3	-	208 V/3	13788VA	MDP-13,15,17	3#6, #10 GND IN 1"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER
SEF-1	-	-	-	6.3	-	120 V/1	756 VA	L1-39	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
SEF-2	-	-	-	6.3	-	120 V/1	756 VA	L1-41	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
UH-2	-	-	-	12.5	-	120 V/1	1500 VA	L1-31	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
UH-3	-	-	-	12.5	-	120 V/1	1500 VA	L1-35	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.

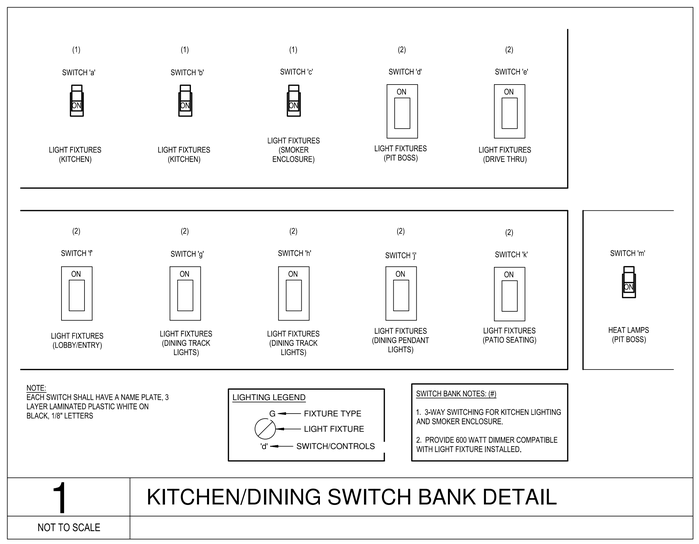
KITCHEN EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	DISC. MEAN / MOUNTING HEIGHT	HP	kW	FLA	VOLTAGE/POLES	LOAD	CIRCUIT NUMBER	WIRE & CONDUIT	COMMENTS
K1	HOT HOLD CABINET	5-20R / 12"	-	1.9	16	120 V/1	1920 VA	L1-2	2#12, #12 GND IN 3/4"C	
K3	SANDWICH/SALAD REFRIG UNIT	5-15R / 12"	-	-	5.8	120 V/1	696 VA	L1-4	2#12, #12 GND IN 3/4"C	
K5.1	WARMING DRAWER	5-15R / 12"	-	0.64	5.3	120 V/1	636 VA	L1-6	2#12, #12 GND IN 3/4"C	
K6	FRENCH FRY WARMERS	5-15R / 12"	-	1.51	12.6	120 V/1	1512 VA	L1-8	2#12, #12 GND IN 3/4"C	
K7.1	HOT FOOD WELL (2 WELL)	5-15R / 12"	-	1.2	10	120 V/1	1200 VA	L1-10	2#12, #12 GND IN 3/4"C	
K8.1	HOT FOOD WELL (2 WELL)	5-15R / 12"	-	1.2	10	120 V/1	1200 VA	L1-12	2#12, #12 GND IN 3/4"C	
K8.2	WARMING DRAWERS	5-15R / 12"	-	1.27	10.6	120 V/1	1272 VA	L1-14	2#12, #12 GND IN 3/4"C	
K9.1	HOT FOOD WELL (3 WELL)	5-20R / 12"	-	1.8	15	120 V/1	1800 VA	L1-20	2#12, #12 GND IN 3/4"C	
K10	REACH IN FREEZER	5-15R / 78"	1/2	-	7.6	120 V/1	912 VA	L1-22	2#12, #12 GND IN 3/4"C	
K12	FRYER FILTER (GAS)	J-BOX / 36"	-	-	9	120 V/1	1080 VA	L1-68	2#12, #12 GND IN 3/4"C	
K13	REFRIGERATED BASE	5-15R / 12"	1/4	-	4.2	120 V/1	504 VA	L1-24	2#12, #12 GND IN 3/4"C	
K14a	24" GRIDDLE	J-BOX / 36"	-	6	28.9	208 V/2	6011 VA	L1-30,32	2#8, #10 GND IN 3/4"C	
K14b	24" GRIDDLE	J-BOX / 36"	-	6	28.9	208 V/2	6011 VA	L1-70,72	2#8, #10 GND IN 3/4"C	
K25	DISHWASHER	J-BOX / 12"	-	-	40	208 V/3	14410 VA	MDP-25,27,29	3#4, #10 GND IN 1-1/4"C	
K39a	48" SMOKER	5-20R / 18"	1/4	-	15	120 V/1	1800 VA	L1-42	2#12, #12 GND IN 3/4"C	
K39b	48" SMOKER	5-20R / 18"	1/4	-	15	120 V/1	1800 VA	L1-44	2#12, #12 GND IN 3/4"C	
K40	SODA SYSTEM COMPRESSOR	5-20R / 60"	-	-	7	120 V/1	840 VA	L1-40	2#12, #12 GND IN 3/4"C	
K71	DRINK DISPENSER	5-20R / 48"	-	-	3.5	120 V/1	420 VA	L1-58	2#12, #12 GND IN 3/4"C	
K72	ICE MACHINE	5-20R / 60"	-	-	12.7	120 V/1	1524 VA	L1-60	2#12, #12 GND IN 3/4"C	
K73	TEA BREWER	5-20R / 48"	-	1.65	13.8	120 V/1	1656 VA	L1-62	2#12, #12 GND IN 3/4"C	
K75	CHEST FREEZER	5-15R / 18"	-	-	1.5	120 V/1	180 VA	L1-55	2#12, #12 GND IN 3/4"C	
K76	UNDER COUNTER REFRIG	5-15R / 12"	1/6	-	3.7	120 V/1	444 VA	L1-54	2#12, #12 GND IN 3/4"C	UC
K81	DRINK DISPENSER	5-20R / 48"	-	-	3.5	120 V/1	420 VA	L1-64	2#12, #12 GND IN 3/4"C	
K82	TEA BREWER	5-20R / 48"	-	1.65	13.8	120 V/1	1656 VA	L1-66	2#12, #12 GND IN 3/4"C	



2 LIGHTING CONTROL DIAGRAM

NOT TO SCALE



1 KITCHEN/DINING SWITCH BANK DETAIL

NOT TO SCALE

LMHT Project No. 22160.00

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8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY LAKE CITY, FLORIDA 32055

Drawing: ELECTRICAL DETAILS and SCHEDULES

Revisions

THRU ADDENDUM " "

PROJECT DATE 08/12/2022

Drawn By JP

Checked By JP

Sheet No. E501

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_9472\E501.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:50am

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	BREAKER AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER AMP.	BREAKER POLE	NOTE	DESCRIPTION	CKT. #
1	PANEL "L1"		3	300	21.38	24.1			2.67	100	3		PANEL "L2"	2
3					14.15		18.3		4.12					4
5					23.00			26.5	3.46					6
7	RTU-1	1	3	60	5.44	7.2			1.74	20	3	1	MAU (CONDENSOR)	8
9					5.44		7.2		1.74					10
11					5.44			7.2	1.74					12
13	RTU-2	1	3	50	4.60	7.6			2.96	35	3	1	MAU (FAN)	14
15					4.60		7.6		2.96					16
17					4.60			7.6	2.96					18
19	KEF-1	1	3	20	1.14				2.60	40	2	1	K50F FREEZER CONDENSOR	20
21					1.14				2.60					22
23					1.14				1.56	20	2	1	K50C COOLER CONDENSOR	24
25	K25 DISHWASHER		3	60	4.80				1.56					26
27					4.80				1.68	25	3	1	K72a ICE MACHINE CU	28
29					4.80				1.68					30
31	SPACE		1			1.7			1.68					32
33	SPACE		1				1.7		1.68	25	2	1	K32/K32a ICE MACHINE	34
35	SPACE		1					1.7	1.68					36
37	SPACE		1			0.0					1		SPACE	38
39	SPACE		1				0.0				1		SPACE	40
41	SPACE		1					0.0			1		SPACE	42
	MODEL SQ D I-LINE					40	35	43	TOTAL KVA PER PHASE					
	LOCATION SEE PLAN					337	289	357	AMPS PER PHASE					

VOLTAGE 208Y/120V
PHASE 3
WIRE 4
MAINS 600 MLO
RATING 600 (AMPS)
WITH I.G. BAR YES
MOUNTING SURFACE
FEEDER SEE RISER
MIN AIC 65k FULLY RATED
SEE POWER LOAD SUMMARY

NOTES:
1) PROVIDE HACR BREAKER.

PANEL "MDP"

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	BREAKER AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER AMP.	BREAKER POLE	NOTE	DESCRIPTION	CKT. #
1	TIME CLOCKS	1	1	20	0.50	0.7			0.19	20	1	1	EXIT/NIGHTLIGHT	2
3	DINING TRACK/DRIVE THRU LTG	3	1	20	1.13		1.3		0.14	20	1	3	DINING PENDANT	4
5	PUTBOSS LTS	3	1	20	0.14			0.6	0.41	20	1	3	ENTRY/LOBBY LTG	6
7	KITCHEN/SMOKER ENC LTG	3	1	20	0.60	0.8			0.18	20	1	3	OUTDOOR DINING LTG	8
9	BUILDING EXTERIOR LTG	2,3	1	20	0.19		1.1		0.91	20	1		RESTROOM LTG AND EXHAUST FANS	10
11	BUILDING SIGNAGE	2,3	1	20	1.20			1.7	0.50	20	1	1,4	HOT BOX HEAT TAPE	12
13	HEAT LAMPS		1	20	0.50	0.5				20	1		SPARE	14
15	MONUMENT SIGN	2,3	1	20	1.20		1.2			20	1		SPARE	16
17	DIRECTIONAL SIGN	3	1	20	1.20			1.2		20	1		SPARE	18
19	PARKING LOT LIGHTING	3	1	20	0.70	0.7							SPACE	20
21	PARKING LOT LIGHTING	3	1	20	0.53		0.5						SPACE	22
23	SPARE		1	20				0.0					SPACE	24
25	SPARE		1	20		0.0							SPACE	26
27	SPARE		1	20			0.0						SPACE	28
29	SPACE							0.0					SPACE	30
31	SPACE					0.0							SPACE	32
33	SPACE						0.0						SPACE	34
35	SPACE							0.0					SPACE	36
37	SPACE					0.0							SPACE	38
39	SPACE						0.0						SPACE	40
41	SPACE							0.0					SPACE	42
	MODEL SQ D NQ					2.7	4.1	3.5	TOTAL KVA PER PHASE					
	LOCATION SEE PLAN					22	34	29	AMPS PER PHASE					

VOLTAGE 208Y/120V
PHASE 3
WIRE 4
MAINS 100A MLO
RATING 100 (AMPS)
WITH I.G. BAR NO
MOUNTING SURFACE
FEEDER SEE "MDP"
MIN AIC 65k SERIES RATED

ITEMS	CON.	%	DEM.
RECEPTACLES	0.0	code	0.0
KITCHEN	0.0	65%	0.0
HVAC	0.0	100%	0.0
LIGHTS (INT.)	3.8	125%	4.8
LIGHTS (EXT.)	2.3	125%	2.9
MISC.	4.1	100%	4.1
TOTAL KVA	10.3		11.8
TOTAL AMPS	28		33

NOTES:
1) PROVIDE LOCKABLE BREAKER PER NEC 422.31.
2) PROVIDE LOCKABLE BREAKER PER NEC 600.6.
3) ROUTE THROUGH LIGHTING CONTACTOR
4) PROVIDE GFEP BREAKER.

PANEL "L2"

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	BREAKER AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER AMP.	BREAKER POLE	NOTE	DESCRIPTION	CKT. #
1	SECURITY SYSTEM	4	1	20	1.00	2.9			1.92	20	1	1	K1 HOT MOLD CABINET	2
3	POS - FRONT COUNTER	1,2	1	20	0.36		1.1		0.70	20	1	1	K3 SANDWICH/SALAD REFRIG. UNIT	4
5	POS - FRONT COUNTER	1,2	1	20	0.36			1.0	0.64	20	1	1	K5.1 WARMING DRAWER	6
7	MENUBOARDS		1	20	0.72	2.2			1.51	20	1	1	K6 FRY WARMERS	8
9	POS - DRIVE THRU	1,2	1	20	0.36		1.6		1.20	20	1	1	K7.1 HOT FOOD WELL	10
11	AC-1 - DRIVE THRU	4	1	20	0.36			1.6	1.20	20	1	1	K8.1 HOT FOOD WELL	12
13	OFFICE DESK RECEPTACLES	2	1	20	0.36	1.6			1.27	20	1	1	K8.2A WARMING BIN	14
15	OFFICE DESK RECEPTACLES		1	20	0.36		0.4		0.00	20	1		SPARE	16
17	TELEPHONE BOARD	2	1	20	0.36			0.4	0.00	20	1		SPARE	18
19	TELEPHONE BOARD	2	1	20	0.36	2.2			1.80	20	1	1	K9.1 HOT FOOD WELLS	20
21	TOUCH FREE VALVES (RR)	4	1	20	0.10		1.0		0.91	20	1	1	K10 REACH-IN FREEZER	22
23	SPARE		1	20				0.5	0.50	20	1	1	K13 REFRIGERATED BASE	24
25	FLY TRAP		1	20	0.18	0.2				20	1		SPARE	26
27	RESTROOM RECEPTACLES	1	1	20	0.36		0.4			20	1		SPARE	28
29	CEILING FANS	4	1	20	0.36			3.4	3.01	40	2	4	K14a 24" GRIDDLE	30
31	UH-2 (OUTDOOR DINING)	4	1	25	1.50	4.5			3.01					32
33	OUTDOOR DINING RECEPTACLES	1	1	20	0.18		0.2			20	1		SPARE	34
35	UH-3 (OUTDOOR DINING)	4	1	25	1.50			1.5		20	1		SPARE	36
37	SPARE		1	20		0.2			0.18	20	1	4	HOOD CONTROLS (PIT BOSS)	38
39	SEF-1 (SMOKER ENCLOSURE)		1	15	0.76		1.6		0.84	20	1	1	K40 SODA SYSTEM COMP	40
41	SEF-2 (SMOKER ENCLOSURE)		1	15	0.76			2.6	1.80	20	1	1	K39a 48" SMOKER	42
43	SMOKER ENCLOSURE RECEPTACLES	1	1	20	0.36	2.2			1.80	20	1	1	K39b 48" SMOKER	44
45	EUH-1 (MECH RM)		2	30	2.50		2.9		0.43	20	1	1	K50C COOLER UC	46
47					2.50			3.4	0.92	20	2	1	K50F FREEZER UC	48
49	ROOFTOP/RTU RECEPTACLES		1	20	0.90	1.8			0.92					50
51	SPARE		1	20			0.4		0.36	20	1	4	WALK-IN HEAT TRACE TAPE	52
53	WINDOW RECEPTACLES (DINING)		1	20	0.72			1.2	0.44	20	1	1	K76 UNDER COUNTER REFRIG.	54
55	K73 CHEST FREEZER	1	1	20	0.18	0.2				20	1		SPARE	56
57	TICKET PRINTER	1	1	20	0.36		0.8		0.42	20	1	1	K71 LOBBY DRINK DISPENSOR	58
59	KITCHEN MONITOR (PIT BOSS)	1,2	1	20	0.72			2.2	1.52	20	1	1	K72 ICE MACHINE	60
61	POS (PIT BOSS)	1,2	1	20	0.18	1.8			1.66	20	1	1	K73 TEA BREWER	62
63	DINING RECEPTACLES		1	20	0.36		0.8		0.42	20	1	1	K81 DRIVE-THRU DRINK DISP.	64
65	UTILITY ROOM RECEPTACLE	1	1	20	0.18			1.8	1.66	20	1	1	K82 TEA BREWER	66
67	WATER HEATER		1	20	0.50	1.6			1.08	20	1	4	K12 GAS FRYER	68
69	RECIRCULATION PUMP		1	20	0.17		3.2		3.01	40	2	4	K14b 24" GRIDDLE	70
71	DRIVE THRU MENUBOARD		1	20	0.50			3.5	3.01					72
73	SPARE		1	20		0.0				20	1		SPARE	74
75	SPARE		1	20			0.0			20	1		SPARE	76
77	SPARE		1	20				0.0		20	1		SPARE	78
79	SPARE		1	20		0.0				20	1		SPARE	80
81	SPARE		1	20			0.0			20	1		SPARE	82
83	SPARE		1	20				0.0		20	1		SPARE	84
	MODEL SQ D NQ					21.4	14.1	23.0	TOTAL KVA PER PHASE					
	LOCATION SEE PLAN					178	118	192	AMPS PER PHASE					

VOLTAGE 208Y/120V
PHASE 3
WIRE 4
MAINS 400 MLO
RATING 400 (AMPS)
WITH I.G. BAR NO
MOUNTING SURFACE
FEEDER SEE "MDP"
MIN AIC 65k SERIES RATED

ITEMS	CON.	%	DEM.
RECEPTACLES	3.6	code	3.6
KITCHEN	38.1	65%	24.8
HVAC	4.5	100%	4.5
LIGHTS (INT.)	0.0	125%	0.0
LIGHTS (EXT.)	0.0	125%	0.0
MISC.	12.3	100%	12.3
TOTAL KVA	58.5		45.2
TOTAL AMPS	162		125

NOTES:
1) PROVIDE GFCI TYPE BREAKER
2) I.G. CIRCUIT.
3) ROUTE THROUGH LIGHTING CONTACTOR
4) PROVIDE LOCKABLE BREAKER PER NEC 422.31.

PANEL "L1"

FAULT CURRENT CALCULATIONS

Basic Assumptions:

Transformer	Utility Xfmr
Rating	225 KVA
Secondary	208 V
Impedance	2.0%
SCA-end	31,228 A

Short circuit current through each cable segment:

From	To	Parallel	Length	Voltage	Wire Size	Wire Type	Conduit Type	C*	SCA-beg	SCA-end
UTILITY XFMR	CT CABINET	2 Sets	50 ft	208 V	#350	Cu	NonMetallic	22737	31,228 A	24,284 A
CT CABINET	SERVICE DISC	2 Sets	5 ft	208 V	#350	Cu	NonMetallic	22737	24,284 A	23,756 A
SERVICE DISC	PANEL MDP	2 Sets	15.0 ft	208 V	#350	Cu	Metallic	19704	23,756 A	22,093 A
PANEL MDP	PANEL L1	2 Sets	5.0 ft	208 V	#1/0	Cu	Metallic	8925	22,093 A	21,010 A
PANEL MDP	PANEL L2	1 Sets	5.0 ft	208 V	#3	Cu	Metallic	4633	22,093 A	18,433 A

* Constant is calculated as: 1 divided by square root of impedance times 1,000 (Impedance values from IEEE Std 241-1990 page 420)

FAULT CURRENT CALCULATION NOTES:

EC SHALL PROVIDE A TESTED SERIES RATED DISTRIBUTION SYSTEM CAPABLE OF WITHSTANDING THE ACTUAL AVAILABLE FAULT CURRENT, AT THE TIME OF DESIGN THE TRANSFORMER SPECIFICATIONS AND LOCATION WERE NOT KNOWN. THESE CALCULATIONS REPRESENT A WORST CASE ESTIMATE BASED ON AN INFINITE BUS DESIGN. EC SHALL ONLY USE THESE CALCULATIONS AS A GUIDELINE FOR THE PROPER SELECTION AND COORDINATION OF BREAKERS. ACTUAL VALUES WILL VARY ACCORDING TO NUMEROUS VARIABLES. VALUES ARE VALID ONLY FOR A 225kVA TRANSFORMER WITH AN IMPEDANCE OF 2.00% OR GREATER AND SERVICE LATERALS NOT LESS THAN 50 FEET IN TOTAL LENGTH. EC SHALL FIELD VERIFY TRANSFORMER RATINGS AND LOCATION AND ALL CONDUCTOR VARIABLES PRIOR TO PURCHASING BREAKERS. ADJUST AS REQUIRED. CONSULT DESIGN ENGINEER AS NEEDED.

POWER LOAD SUMMARY (KVA)

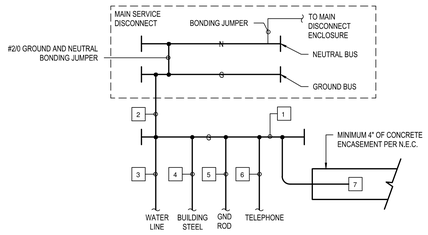
PANEL	RECEPTACLE LOAD	KITCHEN LOAD	HVAC LOAD	INTERIOR LIGHTING LOAD	EXTERIOR LIGHTING LOAD	MISCELLANEOUS LOADS	TOTAL CONNECTED LOAD
PANEL "MDP"	0.00	0.00	47.64	0.00	0.00	31.13	78.78
PANEL "L1"	3.60	38.12	4.51	0.00	0.00	12.30	58.53
PANEL "L2"	0.00	0.00	0.00	3.81	2.31	4.13	10.26
TOTAL CONNECTED LOAD BY EQUIPMENT TYPE	3.60	38.12	52.15	3.81	2.31	47.57	**147.56**

SERVICE CALCULATION PER CEC 220.88	
TOTAL CONNECTED KVA:	147.56
A: TOTAL CONNECTED KVA OVER 200KVA =	147.56 KVA
B: 50% OF THE AMOUNT OVER 200KVA =	
DEMAND KVA:	**147.56 KVA**
TOTAL DEMAND AMPERES:	**409.59 Amps**

TOTAL CONNECTED KVA	**147.56**
TOTAL CONNECTED AMPS	**409.60**

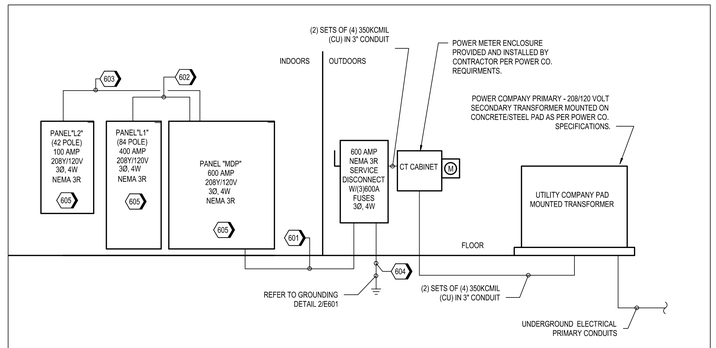
SERVICE GROUNDING NOTES:

1. 4" X 1/4" X 24" COPPER GROUND BUS WITH ISOLATING STANDOFFS MOUNTED ADJACENT TO PANEL "L1". COORDINATE EXACT LOCATION WITH G.C./OWNER.
2. 1- #2/0 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT
3. 1- #2/0 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT TO COLD WATER LINE SERVING BUILDING. MAKE CONNECTION WITHIN 5' OF WATERLINE ENTERING BUILDING.
4. 1- #2/0 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT, CONNECTED TO BUILDING STRUCTURAL STEEL.
5. 1- #6 GROUNDING ELECTRODE CONDUCTOR IN 3/4" CONDUIT, CONNECTED TO A 3/4" DIAMETER X 10'-0" LONG COPPER CLAD STEEL GROUND ROD
6. 1- #6 EQUIPMENT GROUND CONDUCTOR IN 3/4" CONDUIT TO TELEPHONE TERMINAL BACKBOARD. REFER TO FLOOR PLAN FOR LOCATION.
7. 1- #4 CONCRETE ENCASED GROUNDING ELECTRODE WITH A MINIMUM LENGTH OF 20'-0".



2 SERVICE ENTRANCE GROUNDING DETAIL

NOT TO SCALE



1 ONE-LINE DIAGRAM

NOT TO SCALE

KEYNOTES

601	THWN, 600A, 208V, (2-SETS) 4-350 kCMIL CU, #1 GND, #1 IG EACH IN 3"C.
602	THWN, 300A, 208V, (2-SETS) 4-#1/0 CU, #4 GND, #4 IG, EACH IN 2"C.
603	THWN, 100A, 208V, (1-SET) 4-#3 CU, #8 GND, IN 1-1/4"C.
604	GROUNDING SHALL BE PER NEC. FURNISH AND INSTALL 3/4"X10'-0" GROUND ROD AT A CONCRETE ENCASED ELECTRODE. CONNECT THE BUILDING SERVICE GROUND TO THE GROUND ROD, ENCASED ELECTRODE AND DOMESTIC COLD WATER PIPING WITH BARE #2/0 COPPER CONDUCTOR. BONDING SHALL BE PER NEC.
605	PROVIDE SQUARE D PANELBOARDS OR APPROVED ALTERNATE FOR PANELS MDP, L1, AND L2. PANEL DIMENSIONS, MDP:32"X 9.5", L1:20"X 5.75", L2:20"X 5.75".

GENERAL NOTES

A. ALL WIRING SHALL BE COPPER WITH 'THWN' INSULATION RATED AT 75° C UNLESS OTHERWISE NOTED.

B. PROVIDE 3/4" CONDUIT BELOW ROOF FOR CONTROL WIRING TO RTU. ROUTE THROUGH ROOF WITHIN UNIT CURB.

C. ALUMINUM SERVICE LATERAL FEEDERS SHALL BE PROVIDED WITH COMPRESSION CONNECTIONS UPON APPROVAL WITH AHJ.

D. PROVIDE ALL REQUIRED ELECTRICAL PANEL LABELING/MARKINGS AS REQUIRED BY THE 2017 NEC, SEC. 110.21-110.24. THE MARKING SHALL ADEQUATELY WARN OF THE HAZARD USING EFFECTIVE WORDS AND/OR COLORS AND/OR SYMBOLS. THE LABEL SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN. THE LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE LABEL SHALL ALSO BE SIZED ACCORDINGLY SO THE TEXT IS LEGIBLE WITH SUITABLE FONT SIZES ACCORDING TO ANSI Z535. 4-2011.

E. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEC AS WELL AS ALL APPLICABLE FEDERAL STATE AND LOCAL REQUIREMENTS. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.

F. COORDINATE WITH ALL UTILITIES (POWER, PHONE AND CABLE/INTERNET) PRIOR TO BID. FURNISH AND/OR INSTALL ALL MATERIAL AND FURNISH ALL LABOR NECESSARY TO COMPLY WITH UTILITY REQUIREMENTS FOR THE UTILITY PRIMARY, SECONDARY AND METERING.

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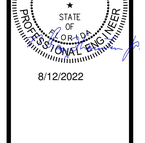

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: PANEL SCHEDULES and ONE-LINE DIAGRAM

Revisions

THRU ADDENDUM " "

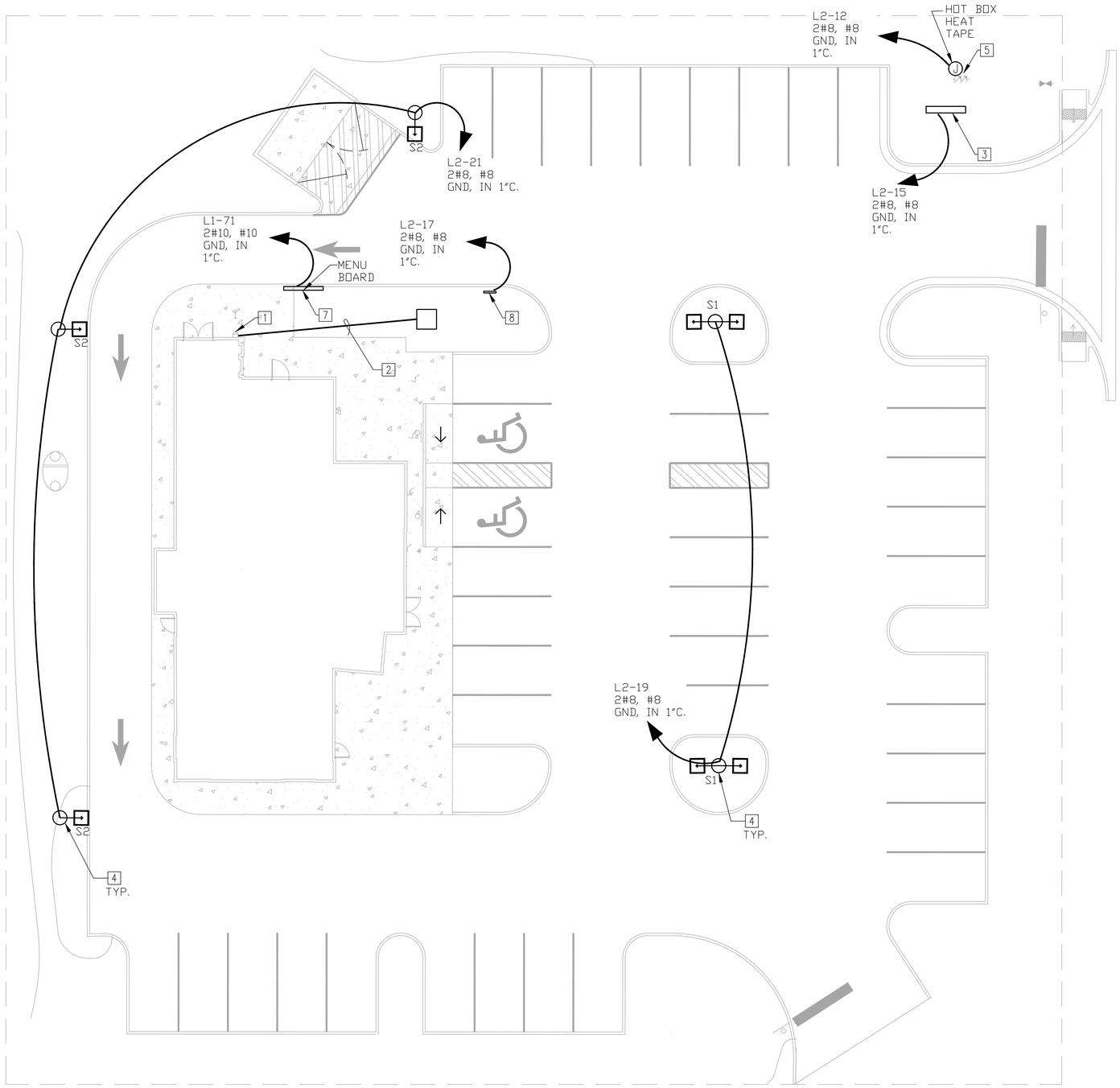
PROJECT DATE
08/12/2022

Drawn By

Checked By

Sheet No.
E601

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_84\2\E601.dwg
Plotted by: chudson
Plotted Date: Aug 12, 2022 - 8:50am



1 ES111 **ELECTRICAL SITE PLAN**

SCALE: 1"=10'-0"

ELECTRICAL SITE PLAN NOTES

1. BUILDING POWER PANEL LOCATION.
2. EC SHALL PROVIDE SECONDARY CONDUCTORS FROM TRANSFORMER TO BUILDING SERVICE LOCATION. COORDINATE EXACT REQUIREMENTS WITH UTILITY COMPANY.
3. VERIFY MONUMENT SIGN LOCATION; CONTRACTOR SHALL COORDINATE WITH FINAL CIVIL DRAWINGS AND SIGN VENDOR PRIOR TO TRENCHING. PER CEC 600.6(A) SIGN DISCONNECT LOCATIONS: THE DISCONNECT SHALL BE LOCATED AT THE POINT THE FEEDER CIRCUIT OR BRANCH CIRCUIT(S) SUPPLYING A SIGN OR OUTLINE LIGHTING SYSTEM ENTERS A SIGN ENCLOSURE. THE DISCONNECTING MEANS SHALL BE WITHIN SIGHT OF THE SIGN OR OUTLINE LIGHTING SYSTEM THAT IT CONTROLS; WHERE NOT WITHIN SIGHT, THE DISCONNECTING MEANS SHALL BE LOCKABLE IN ACCORDANCE WITH 110.25.
4. NEW LIGHT POLE, BASE AND LIGHT FIXTURE. SEE SHEET ES112 FOR SPECIFICATION AND PHOTOMETRIC STUDY.
5. VERIFY FINAL LOCATION OF HOT BOX WITH CIVIL.
6. NOT USED.
7. (4) 1" CONDUITS UNDERGROUND TO MENU BOARD AND SPEAKER POST.
8. PROPOSED DIRECTIONAL SIGN LOCATION; CONTRACTOR SHALL COORDINATE WITH FINAL CIVIL DRAWINGS AND SIGN VENDOR PRIOR TO TRENCHING.

GENERAL SITE PLAN NOTES

1. CONDUIT RUNS ARE DIAGRAMMATICAL; CONTRACTOR TO RUN CONDUIT ALONG "PATH OF LEAST RESISTANCE". NO EXTRA FEES WILL BE PAID FOR ROCK BUSTING, UNLESS OWNER'S REPRESENTATIVE AGREES THERE IS NO OTHER PATH AVAILABLE.

LMHT Project No. 22160.00

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NELSON RAY THORNTON JR. LICENSED No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/12/2022

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: ELECTRICAL SITE PLAN

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JP

Checked By
JP

Sheet No.
ES111

Drawing File: C:\Users\chudson\Appdata\Local\Temp\AcPublish_3472\ES111.dwg
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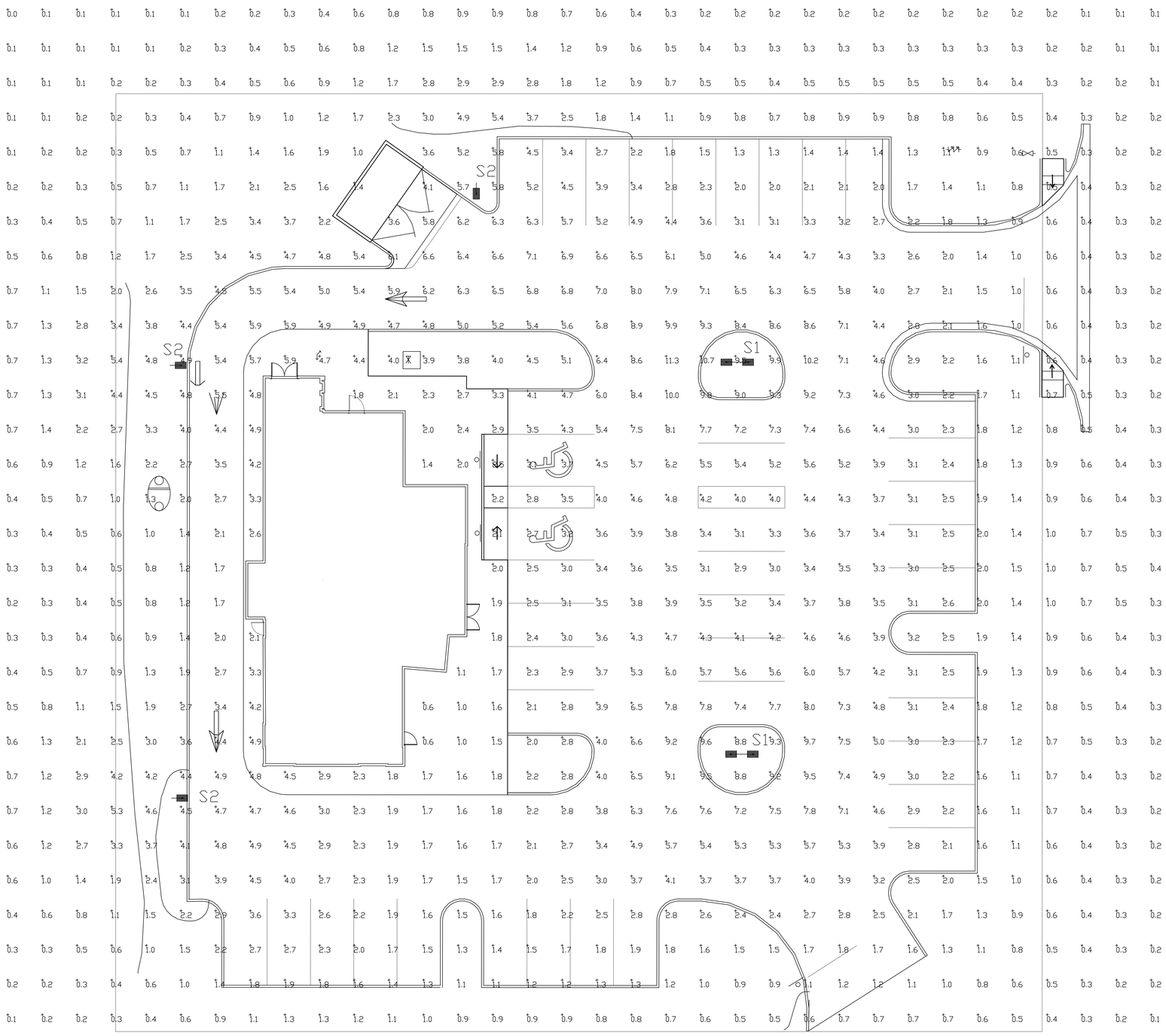
Plotted date: Aug 12, 2022 - 8:51am



Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	LLD	LDD	LLF	Arr. Lum. Lumens	Arr. Watts
	2	S1	D180	SLM-LED-24L-SIL-FT-40-70CRI-D180-24' POLE+2'BASE	1.000	1.000	1.000	50994	352
	3	S2	SINGLE	SLM-LED-24L-SIL-FT-40-70CRI-SINGLE-24'POLE+2'BASE	1.000	1.000	1.000	25497	176

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALC POINTS	Illuminance	Fc	2.36	11.3	0.0	N.A.	N.A.
INSIDE CURB	Illuminance	Fc	4.14	11.3	1.0	4.14	11.30

VENDOR CONTACT:
ALAN TAPSCOTT
SHANNON AND ASSOCIATES
919-809-9247
ATAPSCOTT@SHANNONANDASSOC.COM

THIS DRAWING IS PROVIDED FOR REFERENCE ONLY AND IS NOT TO SCALE. ALL SYSTEMS SHALL MEET ALL APPLICABLE REQUIREMENTS OF STATE AND LOCAL CODES AND OTHER REQUIREMENTS AS SHOWN IN DESIGN DRAWINGS BY OTHERS.

Drawing File: C:\Users\chudson\Lpgdata\Vocon\Temp\AcPublish_3472\ES112.dwg
Plotted by: chudson
Plotted date: Aug 12, 2022 - 8:43pm

LMHT Project No. 22160.00

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: SITE PHOTOMETRIC

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
JP

Checked By
JP

Sheet No.
ES112

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DIVISION 0 – INSTRUCTIONS TO BIDDERS

1. Bidders shall carefully examine the documents and the construction site to obtain first hand knowledge of existing conditions. Contractors will not be given additional compensation for conditions which can be determined by examining the site and documents. Only dated documents "Issued for Construction" and sealed by the Architect and/or Engineer shall be used for bidding and construction purposes.

2. Bidders shall carefully examine the drawings and specifications for compliance with all applicable codes, ordinances and regulations, as well as for any conflict, error or omission. Non-compliance must be reported immediately in writing to the Owner or Franchisee. Contractors will not be given additional compensation for deviations not so reported prior to contract award.

3. Insurance and Bonds

   A. The insurance required by subparagraph shall be written for not less than any limits of liability required by law or by those set forth below, whichever is greater. All companies must be licensed to do business in the state and/or jurisdiction of the project.

   B. Workmen's Compensation: Each contractor shall take out and maintain during the life of this Contract, Workmen's Compensation Insurance for all of his employees employed at the site of this work. For work sub-contracted, the contractor shall require the subcontractor similarly to provide Workmen's Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the contractor. Should any employee engage in hazardous work under this Compensation Statute, each contractor shall provide and cause each sub-contractor to provide adequate coverage for the protection of his employees not protected otherwise. Provide employer's liability coverage of $100,000 aggregate.

   C. Comprehensive General Liability Insurance: Minimum Bodily Injury limits of $1,000,000 for each occurrence and $1,000,000 aggregate. Maintain Property Damage insurance with minimum limits of $100,000 for each occurrence and $100,000 aggregate.

   D. Contractual Liability: Bodily injury $1,000,000; Property Damage $1,000,000 each occurrence; and $1,000,000 aggregate.

   E. Personal Injury: $1,000,000 aggregate.

   F. Comprehensive Automobile Liability insurance for all owned, non-owned, and hired vehicles: Minimum limits for Bodily Injury of $1,000,000 for each person and $1,000,000 for each accident and Property Damage minimum limits of $1,000,000.

   G. Each contractor shall purchase and maintain during the life of this contract, such Property Investment and Builders Risk Insurance upon the entire work at the site in the amount of 100% of his contract.. This insurance, including off-site stored materials shall include the interests of the Owner, the Contractor, the Sub-Contractors, and sub-sub-contractors in the work and shall insure against the perils of fire, extended coverage, vandalism, theft, and malicious mischief. If by the terms of this insurance any mandatory deductibles are required, or if the contractor should elect, with the concurrence of the Owner, to increase the voluntary deductible amounts, the contractor shall be responsible for payment of the amount of deductible in the event of a paid claim.

   H. Before an exposure to loss may occur, the contractor shall file with the Owner or Franchisee a copy of each policy that includes insurance coverages required by this paragraph. Each policy shall contain all generally applicable conditions, definitions, exclusions, and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire until at least 30 days prior written notice has been given to the Owner or Franchisee.

   I. In waiving rights of recovery under terms of this paragraph, the term "Owner" or "Franchisee" shall be deemed to include his employees and the Architect and his employees as the Owner's representatives as provided for in the Contractor Document.

   J. Bonds: Each prime contractor shall furnish a Performance Bond in an amount equal to one hundred percent (100%) of the Contract Sum as security for the faithful performance of this contract and also a Labor and Material Payment Bond in an amount not less than one hundred percent (100%) of the Contract Sum or in a penal sum not less than that prescribed by State, Territorial, or Local law, as security for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract. The Performance Bond may be in one or in separate instruments in accordance with local law and shall be delivered to the Owner or Franchisee not later than the date of execution of the contract.

   K. Furnish three copies of certificates herein called for and specifically set forth evidence of all coverage required. Each contractor shall furnish to the Owner or Franchisee copies of any endorsements that are subsequently issued amending coverage or limits.

4. It is not the intent of these specifications to restrict unduly the selection of materials and equipment, but to provide a standard of product, workmanship and performance. Where a particular system, product or material is specified by name, it shall be considered as best suited because of its quality, appearance or function in the work. Other products considered equivalent to the specified items may be used, providing the Contractor obtains, in writing, the consent of Golden Corral to make such substitutions. If not approved, the Contractor shall furnish the product specified.

5. Change in Work – The Owner or Franchisee, without invalidating the contract, may order changes in the work within the general scope of the contract, consisting of additions, deletions or other revisions, with the contract sum and contract time being adjusted accordingly. The subsequent AIA Change Order Form will be submitted by the Contractor, with all appropriate substantiating documentation, so that the Contract Sum might be modified.

6. Contractor shall secure certification of inspections and occupancy from authorities having jurisdiction and deliver them to the Owner or Franchisee upon completion of the work. Contractor and subcontractors shall pay all required fees, obtain and pay for all permits required in connection with the execution of their work. Inspections and Tests required to establish compliance with the Contract Documents, for General Construction except as otherwise provided in the Contract Documents, will be made by the General Contractor.

7. A qualified/competent job superintendent must be on the job site at all times during the course of construction and completion of the punch list.

8. Project Meetings

   A. Pre-Construction Conference

      1) A meeting will be schedule within 5 days after Date of Notice to Contract. Representatives of the Owner or Franchisee and his consultants, all Prime Contractors, Major Sub-Contractors, representatives of Governmental or other regulatory agencies shall be in attendance. The Contractor Franchisee will be responsible for scheduling and conducting the Pre-Construction Conference and the distribution of the minutes to all attendees.

      2) Minimum agenda shall include:

         a. Distribute and discuss tentative construction schedule as prepared by the General Contractor.
         b. Critical work sequencing and relation and coordination of Prime Contractors.
         c. Designation of responsible personnel.
         d. Processing of field decisions and Change orders.
         e. Adequacy of distribution of Contract Documents.
         f. Submittal of shop drawings, project data and samples.
         g. Procedures for maintaining Record Documents.
         h. Use of premises including office and storage areas. Owner's requirements.
         i. Major equipment deliveries and priorities.
         j. Safety and first-aid procedures.
         k. Security procedures.
         l. Housekeeping procedures.

   B. Progress Meetings

      1) The Owner or Franchisee shall establish the dates for the progress meetings. The General Contractor or his representative shall coordinate and distribute agenda at least five (5) calendar days prior and conduct regularly scheduled meetings at the site for the purpose of receiving reports from the various contractors on the progress of the work. The minutes of the meeting will be recorded by the General Contractor and distributed to all interested parties.

      2) It is required that each Prime Contractor be present for purposes of reporting his status in regards to the progress of the work and assist in proper coordination of the entire project.

      3) Agenda shall include:

         a. Review, minutes of previous meeting.
         b. Review work progress since last meeting.
         c. Note field observations, problems and decisions.
         d. Identify problems which impede planned progress.
         e. Review off-site fabrication problems.
         f. Develop corrective measures and procedures to regain planned schedule.
         g. Revise Construction Schedule as indicated.
         h. Plan progress during next work period.
         i. Coordinate projected progress with other prime contractors.
         j. Review submittal schedules, expedite as required to maintain schedule.
         k. Maintaining of quality of work standards.

9. Shop Drawings and Samples

   A. General

      1. All shop drawings and samples shall be submitted by each contractor to the Owner or Franchisee.

      2. Shop, erection, and setting drawings, certificates, catalog cuts, and schedules required for work of various trades, shall be checked before submission as hereinafter specified, by technically qualified employees of the Contractor for accuracy, completeness, and compliance with contractor documents. All submittals shall be stamped and signed by Contractor certifying to such check and must be accompanied by a transmittal signed by the Contractor. Submittals which do not bear the Contractor's stamp and signature will be returned without review.

      3. When requested by the Owner or Franchisee, the Contractor shall submit shop drawings, erection or setting drawings and schedule of various items of the work, whether or not such drawings or schedules are specifically mentioned in the technical sections of the specifications.

      4. Shop drawings and samples shall be dated and contain: Name of the project, description or names of equipment, materials and items, and complete identifications of locations at which materials or equipment are to be installed.

      5. No portion of the work shall commence nor materials ordered until the shop drawings and samples relative to this portion have been reviewed for compliance by the Owner or Franchisee. All portions of the work to be done in accordance with shop drawings and samples bearing the stamp of the Owner or Franchisee.

   B. Submittal

      1) All Shop drawings and Product Data shall be submitted in electronic (PDF) format, 1 file per submission. Files shall be titled per CSI format to match entry in Contractor's submittal log.
         C. Architect will return submittals electronically.
         D. Architect will return scanned copies of samples electronically.

      2) Each drawing shall have a clear space for stamps. When phrase "by others" appears on Shop Drawings, the contractor shall indicate on drawing who is to furnish material or operations so marked before submittal.

      3) For standard catalog cuts and illustrated items not requiring special shop drawings, submit four (4) copies for the Owner or Franchisee to review for compliance with contract documents.

   C. Schedules

      The Contractor shall submit a shop drawing submittal schedule to the Owner or Franchisee no later than the first Application for Payment submittal. The shop drawing schedule will be prepared in conjunction with the C.P.M. project schedule.

   D. Samples

      The Contractor shall be responsible for securing and submitting samples as specified and/or as required by the Owner or Franchisee for his selection and/or review of the products, finish, and colors. Samples shall carry the same identifying items as Shop Drawings.

   E. Shop Drawings

      1) Shop drawings and/or catalog cuts of all fabricated parts and items shall be submitted for review to the Owner or Franchisee. All such data shall be submitted through the contractor with such promptness as to cause no delay to any of the work.

      2) When catalog cuts are submitted, the specific items to be considered will be identified by the same nomenclature and/or item number used on the drawings or in the specifications. The same identifications shall be used on Shop Drawings.

      3) The Owner or Franchisee shall review such drawings, schedules and data only for conformance with the design intent of the project and compliance with the information given in the Contract Documents. The Contractor shall make any correction required by the Owner or Franchisee and if required shall resubmit the corrected documents for final review.

      4) The Owner or Franchisee will not undertake the determination of dimensions which by their nature, must be established from field measurements. The determination of such dimensions shall be a part of the contractor's check and coordination of shop drawings.

      5) The final review of shop drawings by the Owner or Franchisee shall not relive the contractor from the responsibility for conforming to the contractor documents unless there is an accompanying letter from him which explicitly states that a deviation is to be made and written approval is obtained for such deviation, nor shall final review of Shop Drawings relieve him of the responsibility for errors in or coordination of his work.

10. Schedule of values:

   A. General

      1) Submit to the Owner or Franchisee a "Schedule of Values at least ten (10 days prior to first Application for Payment.

      2) Upon request by Owner or Franchisee, support values given with data that will substantiate their correctness.

      3) Use Schedule of Values only as a basis for Contractor's Application for Payment.

   B. Form of Submittal

      1) Submit Schedule of Values on AIA G702 and G703.

      2) Use the Construction Specifications Institute (CSI).

   C. Preparing Schedule of Values

      1) Itemize separate line item cost for each of general cost items such as: Performance and Payment Bonds, Field Supervision and Layout, Temporary Facilities and Controls.

      2) Itemize separate line item cost for work required by each section of this specification.

      3) Round off figures to nearest dollar.

      4) Make sum of total costs of all items listed in schedule equal to total Contractor Sum.

      5) Itemize separate line item costs for labor and materials.

11. Payments and Completion

   A. The form of Application for Payment shall be AIA Document G702, May 1992 Edition, Application and Certificate for Payment, supported by AIA Document G703, Continuation Sheet. Until final payment, the Owner or Franchisee will pay 90 percent of the amount due each contractor on account of progress payments. 10 percent shall be held as retainage until the completion of the project to be billed within the final application for payment.

   B. Payment will be made for material stored off-site if the material is stored in a bonded warehouse and insured to 100 percent of it's value. Insurance shall be required and the Owner or Franchisee shall have access to the premises.

12. Project Closeout

   A. First Inspection

      1) Upon completion of project and prior to issuance of final payment certificates, a final inspection shall be scheduled. (first the General contractor and other prime contractors will perform on Inspection). This inspection shall be set by the General contractor, coordinating the schedule of the contractors as to the nature of their position regarding such inspection. The General Contractor shall then call for a final inspection by the Owner or Franchisee.

      2) Each Prime Contractor shall be present at the final inspection as well as the Owner or Franchisee's representative, State Agencies, and such persons as may be designated by the Owner or Franchisee.

      3) Should defects or discrepancies be encountered, a listing of such items will be supplied to all parties.

   B. Record Drawings

      1) As work progresses, record on one set of drawings all changes from the installations originally indicated, especially locations of underground plumbing and electrical lines. Record final location of lines by distance from finished inside walls and floors.

      2) The Prime Contractors shall, upon completion of the work, furnish a marked set of the drawings showing the field changes affecting the various mechanical trades, such as plumbing, heating, ventilating, site utilities, electrical, as actually installed in the locations and deliver them to the Owner or Franchisee for approval and record.

      3) Drawings shall be of the same size and scale as the Contract Documents except that larger scale drawings may be required where clearances are close.

      4) Final payment will be contingent upon receipt of Record Drawings, and Project Maintenance Manuals which are acceptable to the Owner or Franchisee.

   C. Maintenance Manual

      1) Each Prime Contractor shall, prior to completion of contract, deliver to the Owner or Franchisee two (2) copies of a manual, assembled and bound.

      2) Each Prime Contractor shall for this manual, obtain from subcontractors, literature of manufacturers relating to equipment including motors, also furnish cuts, wiring diagrams, and related data including parts lists and numbers, instruction sheets and other information pertaining to same that will be useful to the Owner or Franchisee in overall operation and maintenance. Literature previously submitted with shop drawings which will be useful to the Owner or Franchisee shall also be included in this manual.

      3) Include in the manual, the name, address, and phone number of the nearest sales and service organization for each item. All such data shall be assembled in a reasonable order, bound in hardcover, three ring notebook, complete with a typed page of contents.

   D. Guarantee

      1) Neither the final certificate of payment nor any provision in the Contract Documents nor partial or entire occupancy of the premises by the Owner or Franchisee shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractors of liability in respect to any express warranties or responsibility for faulty materials or workmanship.

      2) The Contractors shall remedy any defects in the work, and pay all expense for any damage to other work resulting therefrom, which shall appear within a period of one (1) year from the date of certificate of occupancy unless a longer period is specified elsewhere. The owner or Franchisee will give notice of observed defects with reasonable promptness. Where items of mechanical equipment carry a manufacturer's warranty of longer than one (1) year, the manufacturer's warranty shall be considered the period of guarantee.

      3) Each prime contractor shall be responsible for filing proper notice with the manufacturer of materials and equipment which carry a warranty, if such notice is required.

   E. Jobsite & material

      1) Jobsite shall be left broom clean with all construction debris disposed of per local ordinances. Glass shall be cleaned, equipment shall be clean and operational. All tile shall be cleaned. All doors, closers and lockset shall be operational to meet code.

13. Project Record Documents

   A. Maintenance of Documents

      1) Maintain at the job site, one copy of contract drawings, specifications, addenda, shop drawings, change orders, other modifications to contract, and field reports.

      2) Store record documents in field office apart from documents used for construction. Maintain in clean, dry legible condition.

      3) Do not use record documents for construction purposes.

   B. Monitoring Devices

      1) Provide multiple color pens for marking conforming to following uses:

         a. Black for Architectural and Structural Work.
         b. Red for HVAC and Plumbing Work.
         c. Blue for Electrical Work.

   C. Recording

      1) Label each document "PROJECT RECORD" and keep record documents current.

      2) Do not permanently conceal any work until required information has been recorded.

      3) Contract Drawings: Legibly mark to record actual construction.

         a. Depths of various elements of foundation in relation to ground floor level.
         b. Horizontal and vertical location of underground utilities and appurtenances referenced to permanent surface improvements.
         c. Location of internal utilities and appurtenances concealed in construction referenced to visible and accessible features of structure.
         d. Field changes of dimensions and details.
         e. Changes made by Change Orders or Field Orders.
         f. Details not on original contract drawings.

      4) Specifications and Addenda: Legibly mark up each Section to record:

         a. Manufacturer, trade name, catalog number, and Supplier of each product and item of equipment actually installed.
         b. Changes made by Change Order or Field Order.
         c. Other matters not originally specified.

   D. Submittal

      1) At completion of project, deliver record documents to Owner or Franchisee.

      2) Accompany submittal with transmittal letter in duplicate containing:

         a. Date and project title and number.
         b. Contractor's name and address.
         c. Certification that each document as submitted is complete and accurate.
         d. Signature of Contractor, or his authorized representative.

14. Administration of Contract

    Time extensions will not be granted for rain, wind, snow, or other natural phenomena of NORMAL INTENSITY for the locality where work is performed. For purposes of determining extent of delay attributable to UNUSUAL WEATHER PHENOMENA, a determination shall be made by comparing the weather for the contract period involved with the average of the preceding five (5) year climate range during the same time interval based on the National Oceanic and Atmospheric Administration National Weather Service statistics for the locality where work is performed and on daily weather logs kept at the job site by the Contractor reflecting the effect of the weather on progress of the work. Any extension of the completion date must be formally submitted and approved as a change order and must follow the procedures set forth within.

DIVISION 1 – GENERAL REQUIREMENTS

1. Contractor is responsible for obtaining and paying for all permits & inspections required for certificate of occupancy.

2. All work shall conform to the requirements of federal, state, and local codes, laws, rules, & regulations of all legally constituted public authorities having jurisdiction. in case of conflict between requirements, the most restrictive shall apply.

3. The contractor is responsible to provide temporary shoring and bracing for all structural elements as required until new structural members are permanently installed, whether indicated on the drawings or not. If the contractor is unsure whether or not to provide temporary shoring and bracing he shall ask the architect or structural engineer, in writing, prior to commencement of work.

4. Contractor shall field verify all existing conditions and critical dimensions prior to commencement of work, and shall notify owner & architect of any discrepancies prior to proceeding with work.

5. Contractor to verify fit & finish requirements for all project components, with owner, prior to ordering materials, and to report conflicting information to owner prior to proceeding with work.

6. Contractor shall dispose of all demolition & construction debris as required by federal, state, and local ordinances.

7. Contractor shall stencil/label on all rated walls in concealed areas the following: "fire and smoke barrier – protect all openings". Also indicate hourly rating on the wall at a location above the ceiling.

8. By the use of the drawings for construction of the project, the owner represents that he has reviewed and approved the drawings, and that the construction document phase of the project is complete.

9. Contractor shall coordinate his work with all other contractors furnishing the labor, materials, and all work, so that the work as a whole shall be executed and completed without conflict or delay.

10. Contractor shall coordinate the requirements of any and all drawings including architectural, mechanical, and electrical. Any conflicts shall be brought to the attention of the owner & architect prior to commencement of any work.

11. It shall be the responsibility of the contractor to acquaint himself with the dimensions of all equipment included in this project so that preparations can be made to provide entry into the facility with sufficient clearance, and to ensure that adequate floor space is available.

12. Contractor shall never scale drawings. locations for all partitions, walls, ceilings, etc. will be determined by dimensions on the drawings. any such dimensions missing from the plans must be brought to the attention of the owner & architect immediately.

13. The contractor shall adhere to the drawings and specifications. Should any error or inconsistency appear regarding the true meaning and/or intent of the drawings or specifications, the contractor shall immediately report same to the architect who will make any necessary changes.

14. If the contractor discovers an error or inconsistency and proceeds with work without notifying the owner & architect of any such discrepancies, he shall assume all charges and make any changes to his work made necessary by his failure to observe and/or report the condition.

15. If the intent of the drawings & specifications are unclear, the contractor shall ask the architect for clarification, prior to proceeding with work, in the form of a written RFI (Request For Information). the architect shall then respond in writing to all appropriate parties.

16. Contractor shall provide adequate protection of work, materials, fixtures, etc. in leased space from loss, damage, fire, theft, etc.

17. Wherever the term "or equal" is used, it shall mean equal product as formally submitted and approved in writing by the owner or architect.

18. If the contractor proposes a material or equipment substitution he shall provide all appropriate documentation and information required for the architect to determine whether or not the substitution is equal to the specification.

19. Value Engineering or Substitution Requests: Submit one electronic or three paper copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section numbers and titles and Drawing numbers and titles. Documentation: Use CSI Form 13.1A if available. Provide a statement explaining why specified product or fabrication or installation cannot be provided, or why Contractor wants to provide a substitution.

20. Contractor shall provide and install all necessary inwall framing required to carry shelf, hanging, and valance loads, railings, etc.

21. Provide silicone sealant at all joints and interfaces of all countertops, equipment and walls.

22. Project shall be left cleaned and polished after completion of work.

23. The contractor shall verify locations of all food service equipment and coordinate location of floor sinks, floor drains, slopes/slab depressions and raised curbs, electrical and plumbing stub outs, and all other work under this scope of responsibility related to this equipment. Refer to owners food service equipment supplier for specific requirements & references.

24. Contractor is responsible for receiving, unloading, uncrating, installation and hook-up of all food service equipment and other owner furnished items indicated within the construction documents unless otherwise noted.

25. Contractor shall refer to these documents, as well as specifications, for identification of all owner supplied items. Contractor shall verify with owner, prior to ordering, which items the owner shall supply. All items not marked as 'owner supplied' are to be supplied by the contractor. Unless noted otherwise all items are to be installed by general contractor.

26. Minimum flame spread classification of interior finishes shall conform to the building code and local governing building codes/ordinances.

27. See sheet F1 for proposed locations of fire extinguishers. Portable fire extinguishers shall be installed in accordance with NFPA 10 however the contractor shall contact the local fire marshal, and provide and install fire extinguishers per the fire marshals direction, including: type, quantity, and locations. At a minimum, contractor shall provide fire extinguishers with a rating of 2A-10BC for every 3,000 s.f. of floor area per unit of "A" at a travel distance to extinguisher not exceed 75 feet for general areas and a type "K" 1.5 gal capacity portable extinguisher within 30 foot of all commercial cooking equipment.

28. For construction details not shown, use the manufacturer's standard details or approved shop drawings/data sheets in accordance with the project specifications.

29. Contractor shall contact all utility companies prior to commencement of work to verify locations of all underground utilities. notify architect immediately if conflicts exist between existing utilities and new construction. patch, repair, and/or replace all adversely affected finishes and surfaces as req'd. upon completion of construction. All parking area pavement and new concrete pads shall transition smoothly.

SECTION 01010 – SUMMARY OF WORK

1. The work in the contract consists of the construction and completion of a restaurant building, clean and ready for operation including all its appurtenances, site work, landscaping and any of its site improvement required or necessary, shown on the drawings; all in accordance with these specifications and the accompanying drawings, excepting only those items specifically shown or noted on the drawings, within the specifications, or in the contract.

2. Work by others:

   A. Freestanding Sign: Responsibility for furnishing and erecting the freestanding sign (paid for by the Owner or Franchisee) will be with the sign company, as will the permits and engineering requirements relative to sign and footing. Sign company will be responsible for construction of footing and electrical connection of the sign on the property. Contractor to provide conduit and wiring to sign location.

   B. Illuminated Building Sings: Shall be supplied and installed by the sign company, paid for by the Owner or Franchisee. Final electrical connections by the sign company. Contractor to provide conduit and wiring to signs locations.

   C. Equipment: Refer to Equipment Drawings (Sheets F1–F2)

      1) All equipment noted as furnished by Furnishings and Equipment Contractor will be purchased, shipped,unloaded, assembled and set in place by that Contractor.

      2) All equipment noted as furnished by Furnishings and Equipment Contractor shall have all utility connections and final installation executed by the General Contractor unless otherwise noted.

      3) Receipt of Equipment – During the course of construction, various deliveries of equipment and miscellaneous items will be made to the job site by common carrier. If during the receipt of those items by the contractor's representative, any missing or damaged items are observed, the receiving person shall:

         a. Make a notation of the discrepancy on the delivery ticket.
         b. Call the delivery carrier and advise him of the problem.
         c. Contact the Owner or Franchisee.

      4) Walk-In Coolers/Freezers are to be furnished and installed by the Refrigeration Contractor. Said Contractor shall install all equipment related to coolers/freezers as designated on the drawings and make final electrical connections.

   D. Contact Owner regarding questions about installation of equipment. Various equipment by others will be installed, provided and/or furnished to complete the Project. It is the responsibility of the General Contractor to fully acquaint himself with the exact extent of all work and/or equipment which will be included within the completed Project.

   E. Interior Signage: Furnished and installed by the Furnishings and Equipment Contractor.

SECTION 01500 – TEMPORARY FACILITIES

1. Furnish all labor, materials, equipment and services necessary to erect and maintain temporary facilities and perform temporary work required in the performance of the Contract and as noted in this section.

2. Temporary Sanitary Facilities for the workmen shall be furnished, installed and maintained by the General Contractor. Permanent toilets installed on the Project shall not be used during construction of the project. Clean fresh, drinking water shall be furnished by the General Contractor. All such facilities and services shall be furnished in strict accordance with existing governing health regulations.

3. Temporary Heat shall be provided by the General Contractor, as required, during the period of the construction. All costs of heat shall be borne by the General Contractor until Owner or Franchisee receives beneficial occupancy of the building, then the Owner or Franchisee will share heat cost on a pro-rata basis for areas occupied until Final Acceptance.

4. Temporary Electrical Service and Lighting shall be provided and maintained by the General Contractor, as required. This includes any equipment or fixture installation during construction, by the Owner or Franchisee and his separate contractors necessary for substantial completion of the work. General Contractor shall pay cost of temporary electrical expense to the Owner or Franchisee.

5. A Telephone shall be provided by the General Contractor on the site for construction use.

6. Temporary Facilities shall be removed by the General Contractor upon completion of the Project, at no additional expense to the Owner or Franchisee.

7. The General Contractor shall provide a separate minimum 25' long enclosed and secured office/storage trailer to the job site for receipt and securing various drop-ship items.

8. Each Subcontractor, at all times, shall keep the premises free from accumulations of waste materials or rubbish caused by his operations and shall dispose of such waste material as per local and state ordinances. At the completion of the work he shall remove all his waste materials and rubbish from and about the job as well as his tools, construction equipment, machinery and service items provided.

9. No signs shall be erected on the job site unless approved by the Owner or Franchisee.

10. GC shall provide for construction debris a 40 yd. dumpster on site during equipment delivery and setup to include (2) dumps during the set-up process. G.C. shall only provide separate recycle, cardboard dumpster if required by local code or at owner's discretion.

DIVISION 2 – SITE WORK

SECTION 02070 – DEMOLITION

1. Demolish existing structures necessary for the completion of the work, except as noted to remain. Notify all utility companies and arrange for cut-off of all facilities and protect all remaining facilities. Remove all demolished material from site unless otherwise stated in the Contract and disposed of in accordance with local and state ordinances.

2. At paving/parking areas, existing structures shall be removed to 1'–6" below existing grade, or proposed grade, or a depth which will provide proper soil bearing. Existing structures shall be removed entirely including foundations when in conflict with new structure.

3. All existing underground utilities shown are approximate and are to be verified by each Subcontractor. Owner or Franchisee does not accept any responsibility for the accuracy of the location of existing utilities indicated on the Drawings. Verify location of existing utilities and exercise every precaution when working on or near these areas, to avoid damage to those existing facilities. Utility lines may be encountered in excavations that were not known (or shown to exist), so caution should be taken in all excavations. Active or inactive utilities encountered shall be handled in accordance with the requirements of the utility companies.

4. Toxic Materials: If the presence of any toxic (i.e. aspestos, PCB's) material is suspected or discovered, the General Contractor shall stop work immediately and notify Owner or Franchisee. Contractor shall not undertake analysis or removal of suspected materials.

SECTION 02100 – CLEARING AND GRUBBING

1. Remove all trash, rubbish, trees and stumps from the entire lot unless noted otherwise on site plan.

2. Remove the entire depth of topsoil from areas to be occupied by buildings, roads, parking areas and walks, and dispose of as per state and local ordinances, except that which is to be placed in landscaped areas.

3. Protect against damage any existing lawns, shrubs, trees, roads, walks and other work that is to remain in place.

SECTION 02200 – EARTHWORK

1. General Contractor shall establish two bench marks off site, prior to excavation. Elevation of bench marks shall be coordinated with bench marks established by licensed surveyor, and listed on site plan.

2. A soils report shall be prepared by an independent company, paid for by the Owner and provided to the General Contractor for reference only. Subsurface conditions and soil bearing capacity are not warranted by the Architect or the Owner or Franchisee.

3. All site preparation data found in the drawings and/or specifications is intended to be minimum acceptable site standards. The soils report is based upon the subsurface conditions at the actual building site. If the soils report lists an allowable load bearing capacity of the site soil that is less than the required capacity of paragraph 10, Owner or Franchisee shall be notified immediately if the soils report outlines a more rigorous method of subsurface preparation than is herein outlined, the requirements of the soils report shall govern. Verify frost protection requirements prior to excavation.

4. The general Contractor shall be responsible for notifying the Owner or Franchisee immediately of any special soil or water conditions that are present on a particular site. Do not proceed with further work until so authorized.

5. The General Contractor shall provide the Owner or Franchisee with soil tests by an independent laboratory, approved by the Owner or Franchisee, on compacted fill as follows. One Standard Proctor on fill material six density tests on compact fill at locations directed by the Owner or Franchisee.

6. Excavate for building foundation, structures, and adjacent areas, to grades and levels as indicated on plans.

7. Include miscellaneous excavation as indicated on drawings or in specifications for footings, underground utilities, steps, ramps, retaining walls, light poles, post holes, dry wells, area drains, etc.

8. Materials to be excavated are assumed to be earth, or other materials that can be removed by power shovel or other normal excavating equipment, but not requiring the use of explosives or drills. If other is encountered within the limits of the excavation, notify the Owner or Franchisee immediately.

9. Maintain temporary barricades, fences and bridge ground excavated areas. Provide warning signs and/or lights as required by Code to protect public and workmen from injury during work carried out under this Contract.

10. Suitable bearing for foundations – All wall footings and column footings shall rest on soil having a minimum soil bearing capacity of 2500 lbs per square foot unless noted otherwise in the structural drawings or the soils report. Contractor shall provide a soils report prepared by a licensed professional engineer to the Owner or Franchisee prior to construction. Refer to soils report for specific recommendations. Provide compaction of existing subgrade soil and new fill in compliance with AASHTO T-99, Method D, also known as ASTM D698, Method D. Fill material shall be at optimum moisture content for compaction.

11. Cohesive Subgrade: 95% compaction
    Non-Cohesion Subgrades: 100% compaction

12. Compaction certificates are mandatory for parking lot, building slab, and foundations sub-grade.

13. If suitable bearing is not encountered at the dept indicated on drawings for foundations, the contractor shall immediately notify the Owner or Franchisee. Do not proceed further until instructions are given by authorized representative of the Owner or Franchisee.

14. Fill under paved areas and exterior slabs on grade shall be compacted to 95% standard proctor. Deposit fill material in horizontal layers not exceeding 8 inches in depth and compact each layer with a mechanical tamper.

15. Fill for unpaved areas shall be clean earth, free of all objectionable foreign objects.

16. Rough grade entire areas of property to reasonable true and even surfaces. Slope earth away from building walls to facilitate drainage. Paving and walks shall be graded to the underside of pavement, planting areas to 8 inches below finish grade and lawn areas to 4 inches below finish grade.

17. Finish Grade – Spread stockpiled and/or new topsoil evenly over lawn and planting areas, bring to finish grades, allowing for settlement.

LMHT Project No. 22160.00

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8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: SPECIFICATIONS

Rib Crib 92 BBQ

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
NRD

Checked By
GRL

Sheet No.
SP101

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_648\SP101.dwg
Plotted by: chudson
Plotted Date: Sep 13, 2022 – 12:52pm

SECTION 02280 – TERMITE CONTROL

1. Comply with toxicant manufacturer's instructions and recommendations for application and safety, including preparation of substrate, in addition to the requirements of these Specifications.

2. Engage a professional pest control operator, bonded and licensed in accordance with regulations of governing authorities for application of soil treatment solution.

3. The soil treatment solution shall be an EPA approved, emulsible concentrate insecticide for dilution with water, specially formulated to prevent infestation by termites. Fuel oil is not permitted as a diluent.

4. Pest control operator shall Apply termiticide mixtures uniformly to all areas beneath concrete slabs-on-grade, including beneath walkways and entrance platforms and beneath sidewalks within 5 feet of buildings.

5. Contractor shall provide a written warranty for a period of five (5) years against infestations or reinfestations. Inspect the work at least once during the first year and annually for the remainder of the warranty at no additional cost to the Owner.

SECTION 02510 – ASPHALT PAVING

1. Asphalt paving data found in these specifications is intended to be minimum acceptable standards. If the soils report outlines a more rigorous method of subsurface preparation and paving than is herein outlined, the requirements of the soils report shall govern.

2. Materials

   A. Base shall consist of 6 inches of water bonded lime stone, crushed rock or suitable local material.

   B. 2 inches thick bituminous concrete hot plant mix asphalt shall be applied over base. Minimum temperature at time of placement shall be 225 degrees F.

   B.1. Coarse aggregrate (retained on the No. 8 sieve): ASTM C-131 (latest edition) no more than 40% water.

   B.2. Slag: Aire cooled, blast furnace slab, with compacted weight of not less than 70 pounds, ASTM C-29 (latest edition)

   B.3. Fine Aggregate: ASTM D-424 (latest edition) with a plasticity index of not more than 6.

   B.4. Filler: ASTM D-242 (latest edition).

   B.5. Bituminous Material

Type and Grade	Specifications	Mixing Temp.
Asphalt Cement 85–100 pen	AASHTO M 20 or ASTM D-946 (latest edition)	275–325 Deg. F

   C. Paint for pavement marking shall be white non–reflective paint conforming to the requirements of AASHTO M248. Paint shall be applied in accordance with the material manufacturer's recommendations. Width of lines shall be 4 inches unless otherwise indicated.

2. Subgrade shall be free of extraneous materials. Proof roll soil subgrade with heavy, pneumatic–tire equipment immediately prior to placing stone base. Any soft or unstable zones detected thereby should be undercut to firm soil and backfilled with engineered earth fill compacted as specified in Section 02200. The subgrade for all placements shall be uniformly stable before any stone base is installed. No base material shall be placed if the subgrade indicated pumping.

3. Surface preparation, spreading and laying, compacting and rolling operations shall conform with Asphalt Institute recommended specification.

4. Inspect area to be paved and insure that all subgrade conditions are sufficiently carried out to insure a good paving job. A finished surface shall not vary more than ¼" pitch in 10 feet when tested with a straight edge applied parallel with or at right angles, to centerline of asphalt surface. Humps or depressions which exceed specified tolerances or which retain water shall be immediately corrected by removing the defective work and replacing it with new material, at the contractor's expense.

5. Lot core samples may be taken at locations determined by the Owner's or Franchisee's representative to determine compliance with these specifications.

SECTION 02700 – SITE DRAINAGE

1. Storm Sewers: Where a storm water drainage system is required, the Contractor shall furnish all labor and materials necessary to complete the system as required by local code, and as shown on the drawings.

2. Surfaces Drainage: Contractor shall furnish surfaces to slopes indicated on the site plan to obtain positive drainage of the surface water.

3. Silt and Erosion: Contractor shall be responsible for preventing silt from the site being carried by surface run–off and deposited on adjacent properties and drainage courses. Settling ponds and/or hay bales arranged to filter out silt shall be constructed as required by local codes and authorities having jurisdiction. Barricades are to be constructed prior to any construction, maintained during construction, and not to be removed until after paving and landscaping are completed.

SECTION 02800 – SITE UTILITIES

1. Gas, water, sewer, telephone and electric service shall be connected to existing utilities by Contractors as required by utility companies.

2. See Section 16530 for Site Lighting.

DIVISION 3 – CONCRETE

SECTION 03300 – CAST–IN–PLACE CONCRETE

1. Items in this section apply to site related concrete work only. For structural concrete requirements refer to sheet S1 of the construction documents. All concrete work governed by this section shall conform to all requirements of American Concrete Institute ACI 301 and applicable sections of ASTM C–94 (latest edition) for Ready Mixed Concrete.

2. All concrete shall be transit mixed concrete, 3% to 5% air–entrained, and shall attain a minimum compressive strength of 3000 psi in twenty–eight (28) days.

3. Slump: Maximum allowable slump will be five (5) inches.

4. Concrete Materials

   A. Portland Cement: Gray Portland Cement, ASTM C–150 (latest edition) Type 1. All concrete shall contain not less than five bags of cement per cubic yard.

   B. Aggregates: ASTM C–33 (latest edition) Maximum size 3/4 inch.

   C. Sand: Hard, durable, clean, sharp, natural sand free form clay, loam, dust or organic matter.

   D. Water: Clean, potable, free from oil, acids, alkali, organic matter and other deleterious substances.

   E. Admixture: Air–entraining type to meet ASTM C–260 (latest edition).

5. Related Materials

   A. Vapor Barrier: 6 mil polyethylene.
   B. Grout under steel plates shall be "Embeco" non–shrink grout.

6. Reinforcing Materials shall be uncoated and free from excessive rust, mill scale, oil, grease, and other deleterious matter.

   A. Reinforcing Steel: Shall be intermediate grade deformed bars per ASTM A615 (latest edition) Grade 60.

   B. Steel Fabric Reinforcing: (For concrete slabs) shall conform to ASTM A185 (latest edition). See structural plans for type and placement.

   C. Metal Accessories: In accordance with ACI 315 or as shown on drawings. All accessories shall have plastic coated legs.

7. Installation

   A. Reinforcement shall be accurately positioned and secured, supported with concrete, metal chairs, spacers, or metal hangers. Reinforcing bars shall lap 40 bar diameters at splices.

   B. Slabs: Compact and screed uniformly to grade. Push aggregate below surfaces with a screen tamper and screed. Follow screeding with a bull float. Wood float and steel trowel to a uniform finish free from trowel marks, pinholes, or blemishes. No interior floor slab shall receive a curing compound under any circumstances.

SECTION 03300 – CAST–IN–PLACE CONCRETE (continued)

   C. Walks: Walks shall be 4 inches thick reinforced by 6x6/W1.4xW1.4 Welded Wire Fabric and shall be broom finished. Walks shall have sawed or tooled joints 5'–0" maximum with tooled radius edges. Install 3/8 inch expansion joints at intervals of not over 25'–0" and similar joints at walls, curbs, etc. Clean and seal joints with sealant.

   D. Curbs: Install 3/8" expansion joints, with non–extruding type bituminous premolded filler strips filled with sealant. Joints to be at 20'–0" centers maximum.

8. Weather Requirements

   A. Hot Weather Placing: Conform to ACI 305.

   B. Cold Weather Placing: Conform to ACI 306.

9. Concrete Tests shall be authorized by the Owner or Franchisee on an as needed basis.

DIVISION 4 – MASONRY

SECTION 04200 – UNIT MASONRY

1. Furnish all masonry units in the sizes and shapes as shown on the drawings or as required to complete the work.

2. Concrete Masonry Units shall be lightweight, load bearing units conforming to ASTM C–90 (latest edition)

3. Mortar Materials

   A. Mortar: Shall be masonry cement Type S.

   B. Sand: Rescreened, clean, sharp, washed materials, free from deleterious substances, conforming with ASTM C–144.

   C. Water: Clean, potable water, free of deleterious amounts of acid, alkalizes or organic materials.

   D. Admixtures: The use of any admixtures or antifreezes to lower the freezing point of mortars is prohibited.

4. Proportions and use of Mortar: For all masonry, provide Type S mortar conforming to ASTM C–270, latest edition. Minimum compressive strength of mortar shall be 1800 pounds per square inch at 28 days.

5. Steel Reinforcing Bars: ASTM A615/A615M.

6. Masonry Joint Reinforcement: ASTM A951/A951M. Maximum spacing of cross wires in ladder–type and points of connection of cross wires of truss–type joint reinforcement shall be 16 in.

7. Vinyl masonry flashing shall be 20 mil, PVC sheet.

8. Weep holes shall be 24 inches on center and be full head height joint. Keep clear of all mortar.

9. Installation

   A. Lay masonry in running bond, with full head and bed joints (see drawings for special coursing and details for work). Lay out so that not less than 1/3 of a unit is exposed at corners, offsets, bucks, and windows. All joints shall be of uniform width and thickness and shall be tooled with a concave jointer after moderate setting, where exposed to view.

10. Clean, all work thoroughly from the top downward using fiber brushes. Remove mortar stains with cleaning compound, rinsing thoroughly with water. All finished surfaces shall be left unmarred.

SECTION 04730 – MANUFACTURED STONE VENEER

1. The work required by this section consists of, but is not limited to the following:

   A. Portland cement based manufactured thin veneer stone for exterior vertical surfaces.

2. Quality Assurance:

   A. Manufacturer s Qualifications: Manufacturer regularly engaged, for preceding 10 years, in manufacture of manufactured thin veneer stone of similar type to that specified.

   B. Factory Blending: For stone exhibiting color variations within the ranges selected under Submittal of samples, blend stone in the factory and package so stone taken from one package shows the same range of colors as those taken from other packages.

   C. Delivery, Storage, and Handling: Deliver and store products in manufacturer's unopened packaging until ready for installation. Protect setting materials from freezing or overheating in accordance with manufacturer's instructions. Store stone and setting materials on pallets, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

3. Environmental Requirements: Do not install adhesives in an unventilated environment. Maintain ambient and substrate temperature of 40 degrees F for a minimum of 7 days after completion.

4. Products:

   Manufacturers: Manufactured stone veneer shall be as indicated on the Room Finish Schedule and Wall Elevations. Design and manufacturers are listed within the finish schedule of the construction documents and shall be a manufactured by Landmark Stone Products, P.O. Box 7276, Cynthiana, KY 41031; Telephone: (866) 273–5214; Email: info@Landmarkstone.com Request for substitutes shall not be considered.

   1. Pattern: Ledgestone Buckingham .
      a. Height: 1–3/4 inch to 7–1/2 inches.
      b. Length: 5 inches to 22 inches.
      c. Nominal Thickness: 1 inch to 1–5/8 inches.
      d. Color: Tan and brown.
      e. Material: Portland cement.

   B. Stone Setting Materials: stone Setting Materials: Comply with the manufactures instructions as applicable to the installation methods referenced in this Section.

      1. Mortar:
         a. Portland Cement: ASTM C 150, Type I or masonry cement (Type N), ASTM C91.
         b. Lime: ASTM C 207.
         c. Sand: ASTM C 144, natural or manufactured.
         d. Color Pigments: ASTM C 979, mineral oxide.
         e. Water: Potable.

5. Surface Preparation: Prepare surfaces in accordance with manufacturer s instructions. Clean surfaces thoroughly before installation. Prepare surfaces using methods for achieving best results for substrate under project conditions.

6. Dry Stack Installation: Install thin veneer stone and mortar in accordance with manufacturer s instructions and ACI 530.1/ASCE 6/TMS 602. Maintain masonry courses to uniform dimensions. Form vertical and horizontal joints of uniform thickness.

   A. Pattern Bond:
      1. Lay out work in advance and distribute color range of stone uniformly over total work area.
      2. Lay stone with face exposed.
      3. Take care to avoid a concentration of any 1 color to any 1 wall surface.
      4. Maintain squared and uniform profile.
      5. Do not use stacked vertical joints.

   B. Placing and Bonding:
      1. Dampen substrate as required to reduce excessive suction.
      2. Use thin–set mortar in accordance with ANSI A118.4 for exterior dry stack installation.
      3. Apply mortar to thickness of 1/4 inch (6 mm) to back of stone.
      4. Press firmly to seat each stone as placed.
      5. Work from bottom up, laying corner pieces first.
      6. Remove excessive mortar as work progresses.
      7. Do not shift or tap veneer stone after mortar has achieved initial set. Where adjustment is required, remove mortar and replace.
      8. Isolate top of veneer stone from horizontal structural framing members and slabs or decks with compressible joint filler and sealant as specified in Section 07900 (07 90 00).

   C. Joints:
      1. Lay stone with reasonably uniform joints, as stone allows.
      2. Remove excess mortar as stone is pressed into position.
      3. Use non–corrosive stone shims as required to maintain joint thickness.

7. Cleaning and Protection: Cleaning: Clean stone within time period recommended by manufacturer, using materials recommended by manufacturer.

SECTION 04850 – NATURAL STONE VENEER

1. The work required by this section consists of, but is not limited to the following:

   A. Natural thin veneer stone for interior vertical surfaces.

2. Quality Assurance:

   A. Manufacturer s Qualifications: Manufacturer regularly engaged, for preceding 10 years, in manufacture of natural thin veneer stone of similar type to that specified.

   B. Factory Blending: For stone exhibiting color variations within the ranges selected under Submittal of samples, blend stone in the factory and package so stone taken from one package shows the same range of colors as those taken from other packages.

   C. Delivery, Storage, and Handling: Deliver and store products in manufacturer's unopened packaging until ready for installation. Protect setting materials from freezing or overheating in accordance with manufacturer's instructions. Store stone and setting materials on pallets, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

3. Environmental Requirements: Do not install adhesives in an unventilated environment. Maintain ambient and substrate temperature of 40 degrees F for a minimum of 7 days after completion.

4. Products:

   A. Manufactures: Natural stone veneer shall be as indicated on the Room Finish Schedule and Wall Elevations. Design and manufacturers are listed within the finish schedule of the construction documents and shall be a manufactured by Natural Stone Veneers International, Inc., PO Box 347, Fond du Lac, Wisconsin 54936. Toll Free (877) 923–2800. Phone (920) 923–2800. Fax (920) 923–3800. Website www.nsvi.com. E–mail info@nsvi.com. Request for substitutes shall not be considered.

      1. Pattern: Virginia Ledgestone .
         a. Height: 1 inch to 2 inches (25 mm to 51 mm).
         b. Length: 4 inches to 14 inches (102 mm to 356 mm).
         c. Nominal Thickness: 3/4 inch to 1–1/2 inches (19 mm to 38 mm).
         d. Color: Silver and brown.
         e. Material: Quartzitic sandstone, rated as Type–III when test in accordance with ASTM C 616.

   B. Stone Setting Materials: stone Setting Materials: Comply with the manufactures instructions as applicable to the installation methods referenced in this Section.

      1. Mortar:
         a. Cement: ASTM C 270.
         b. Lime: ASTM C 207.
         c. Sand: ASTM C 144, natural or manufactured.
         d. Color Pigments: ASTM C 979, mineral oxide.
         e. Water: Potable.
         f. Pre–Packaged Latex–Portland Cement Mortar: ANSI A118.4.

      2. Bonding Agent:
         a. Acrylic adhesive.

      3. Sealer:
         a. Water–based silane or siloxane masonry sealer, clear.

5. Surface Preparation: Prepare surfaces in accordance with manufacturer s instructions. Clean surfaces thoroughly before installation. Prepare surfaces using methods for achieving best results for substrate under project conditions.

6. Dry Stack Installation: Install thin veneer stone and mortar in accordance with manufacturer s instructions and ACI 530.1/ASCE 6/TMS 602. Maintain masonry courses to uniform dimensions. Form vertical and horizontal joints of uniform thickness.

   A. Pattern Bond:
      1. Lay out work in advance and distribute color range of stone uniformly over total work area.
      2. Lay stone with face exposed.
      3. Take care to avoid a concentration of any 1 color to any 1 wall surface.
      4. Maintain squared and uniform profile.
      5. Do not use stacked vertical joints.

   B. Placing and Bonding:
      1. Dampen substrate as required to reduce excessive suction.
      2. Use thin–set mortar in accordance with ANSI A118.4 for exterior dry stack installation.
      3. Apply mortar to thickness of 1/4 inch (6 mm) to back of stone.
      4. Press firmly to seat each stone as placed.
      5. Work from bottom up, laying corner pieces first.
      6. Remove excessive mortar as work progresses.
      7. Do not shift or tap veneer stone after mortar has achieved initial set. Where adjustment is required, remove mortar and replace.
      8. Isolate top of veneer stone from horizontal structural framing members and slabs or decks with compressible joint filler and sealant as specified in Section 07900 (07 90 00).

   C. Joints:
      1. Lay stone with reasonably uniform joints, as stone allows.
      2. Remove excess mortar as stone is pressed into position.
      3. Use non–corrosive stone shims as required to maintain joint thickness.

7. Cleaning and Protection: Cleaning: Clean stone within time period recommended by manufacturer, using materials recommended by manufacturer.

DIVISION 5 – METALS

SECTION 05400 – COLD FORMED METAL FRAMING

1. This work includes load and non–load bearing formed steel stud exterior wall and interior wall framing.

2. References: Refer to the latest editions for each of the following references:

   A. ASTM A780 – Standard Practice for Repair of Damaged and Uncoated Areas of Hot–Dip Galvanized Coatings.
   B. ASTM A924 – Standard Specification for General Requirements for Steel Sheet, Metallic–Coated by the Hot–Dip Process
   C. ASTM A1003 – Standard Specification for Steel Sheet, Carbon, Metallic– and Nonmetallic–Coated Cold–Formed Framing Members.
   D. ASTM B633 – Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel.
   E. ASTM C955 – Standard Specification for Load–Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases
   F. ASTM C1002 – Standard Specification for Steel Self–Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
   G. ASTM C1007 – Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Accessories
   H. ASTM C1513 – Standard Specification for Steel Tapping Screws for Cold–Formed Steel Framing Connections
   I. AISC – Manual of Steel Construction, Load Resistance Factor Design
   J. AISI S100 – North American Specification for the Design of Cold–Formed Steel Structural Members
   K. Galvanizing Repair Paint: SSPC–Paint 20

3. System Description

   A. Size components to withstand design loads as shown on the drawings. Stud sizes, gauges, and spacing shown are the minimum standards.

   B. Provide non–load bearing steel stud partitions with deflections conforming to L/360 at 5 psf typical for gypsum board walls.

   C. Design a wall system to provide for movement of components without bind, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.

   D. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

4. Quality Assurance

   A. Manufacturer: Company specializing in structural framing components with five (5) years minimum experience.

   B. Calculate structural properties of framing members in accordance with AWCI requirements.

   C. Design structural elements under direct supervision of Professional Engineer experienced in design of structural building framing members, registered in the state where the project is located.

SECTION 05400 – COLD FORMED METAL FRAMING (continued)

5. Products:

   A. ASTM A780 – Standard Practice for Repair of Damaged and Uncoated Areas of Hot–Dip Galvanized Coatings.

   B. ASTM A924 – Standard Specification for General Requirements for Steel Sheet, Metallic–Coated by the Hot–Dip Process

   C. Steel Sheet: ASTM A 1003/A 1003M, Metallic coated, of grade and coating weight as follows:
      1. Grade: ST33H (ST230H)
      2. Grade: ST50H (ST340H)
      3. Coating: G90 (Z275) or equivalent

   D. Steel Sheet for Vertical Deflection, Drift Clips: ASTM A 1003/A1003 M, structural steel, zinc coated, of grade and coating as follows:
      1. Grade: 50 (340), Class 1 or 2, As required by structural performance.
      2. Coating: G60 (Z180).

   E. Load bearing metal framing:

      1. Steel Studs: Manufacturer's standard C–shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
         A. Minimum Base–Metal Thickness: 16 Gauge – 0.0538 inch.
         B. Flange Width: 1–5/8 inches (41 mm).
         C. Web Depth: 6 inches (152.4 mm).
         D. Section Properties: Refer to Drawings.

      2. Steel Track: Manufacturer's standard U–shaped steel track, of web depths indicated, unpunched, with straight flanges, and as follows:
         A. Minimum Base–Metal Thickness: 18 Gauge – 0.0428 inch (1.09 mm).
         B. Flange Width: 1–1/4 inches (32 mm), unless noted otherwise
         C. Web Depth: 6 inches (152.4 mm), Track web size to match stud web size.

   F. Non bearing metal framing:

      1. Steel Studs: Manufacturer's standard C–shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
         A. Minimum Base–Metal Thickness: 20 Gauge – 0.0312 inch (0.79 mm),
         B. Flange Width: 1–1/4 inches (32 mm),
         C. Web Depth: 3 5/8 inches (92 mm), 4 inches (102 mm).
         D. Section Properties: Refer to Drawings.

      2. Steel Track: Manufacturer's standard U–shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and as follows:
         A. Minimum Base–Metal Thickness: 20 Gauge – 0.0312 inch (0.79 mm),
         B. Flange Width: 1–1/4 inches (32 mm),
         C. 3 5/8 inches (92 mm), 4 inches (102 mm), Track web size to match stud web size.

   G. Vertical Deflection Clips:

   G.1. Manufacturer's standard clips, capable of accommodating upward and downward vertical displacement of primary structure through positive mechanical attachment to stud web.

   H. Accessories:

   C.1. Fabricate steel–framing accessories from steel sheet, ASTM A 1003/A 1003M, Structural Grade, Type H or Type L, metallic coated, of same grade and coating weight used for framing members.

   I. Fasteners:

   D.1. Steel Shapes and Clips: ASTM A 36/A 36M, zinc coated by hot–dip process according to ASTM A 123/A 123M.
   D.2. Anchor Bolts: ASTM F 1554, Grade [36] [55], threaded carbon–steel bolts and carbon–steel nuts; and flat, hardened–steel washers; zinc coated by hot–dip process according to ASTM A 153/A 153M, Class C or mechanically deposition according to ASTM B 695, Class 50.
   D.3. Expansion Anchors: Fabricated from corrosion–resistant materials, with capability to sustain, without failure, a load equal to 5 times design load, as determined by testing per ASTM E 488 conducted by a qualified independent testing agency.
   D.4. Power–Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion–resistant materials, with capability to sustain, without failure, a load equal to 10 times design load, as determined by testing per ASTM E 1190 conducted by a qualified independent testing agency.
   D.5. Mechanical Fasteners: ASTM C 1513, corrosion–resistant–coated, self–drilling, self–tapping steel drill screws.
      1.A. Head Type: Low–profile head beneath sheathing, manufacturer's standard elsewhere.
   D.6. F. Welding Electrodes: Comply with AWS standards.

6. Inspection

   A. Verify that substrate surfaces are ready to receive work.

   B. Beginning of installation means acceptance of substrate.

7. Erection of Studding.

   A. Install components in accordance with manufacturer's instructions

   B. Align floor and ceiling tracks; locate to wall layout. Secure in place with fasteners or welding at maximum 24 inches or maximum spacing as shown on drawings.

   C. Place studs at maximum spacing as shown on drawings; not more than 2 inches from abutting walls and at each side of openings. Connect studs to tracks using fastener method.

   D. Erect load bearing studs one piece full length. Splicing of studs is not permitted. Brace and reinforce to develop full strength to meet design requirements.

   F. Tracks shall be securely anchored to the supporting structure as shown on the drawings.

   G. Complete uniform and level bearing support shall be provided for the bottom track.

   H. At track butt joints, abutting pieces of track shall be securely anchored to a common structural element, or they shall be butt welded or spliced together.

   I. Studs shall be plumbed, aligned, and securely attached to the flanges or webs of both upper and lower tracts.

   J. Framed wall openings shall include headers and supporting studs as shown on the drawings.

   K. Jack studs shall be installed below window sills, below window and door heads, at free standing stair rails, and elsewhere to furnish support, and shall be securely attached to supporting members.

   L. Temporary bracing shall be provided until erection is complete.

   M. Wall stud bridging shall be installed in a manner to provide resistance to both minor axis bending and rotation. Bridging rows shall be equally spaced not to exceed 4'–0" on center.

   N. Provide stud walls at locations indicated on drawings as "shear walls" for frame stability and lateral load resistance. Such stud walls shall be braced as indicated on plans and specifications. Additional studs shall be positioned to resist the vertical components as indicated on drawings.

SECTION 05400 – COLD FORMED METAL FRAMING (continued)

   O. Refer to drawings for locations of partitions extending to ceiling only, and partitions extending through ceiling or to structure above.

   P. Coordinate placement of insulation in multiple stud spaces made inaccessible after erection.

   Q. Attach cross studs to studs for attachment of fixtures anchored to walls.

   R. Install framing between studs for attachment of mechanical and electrical items, and to prevent stud rotation.

   S. Touch up field welds and damaged galvanized surfaces with primer.

   S. Provide blocking in walls as required for attachment of wall hung items such as shelving, grab bars, ect.

SECTION 05500 – METAL FABRICATIONS

1. For fabrication of miscellaneous metal work which will be exposed to view, use only materials which are smooth and free of surface blemishes including pitting, seam marks, roller marks, rolled trade names and roughness.

2. Rolled steel shapes, plates and bars shall conform to ASTM Designation A36 (latest edition) (36,000 psi).

3. Standard bolts and nuts (for wood to steel connections) shall conform to ASTM A307, (latest ed). Grade A hexagonal head.

4. High strength bolted connections shall conform to ASTM A–325.

5. Welding shall be performed with E70XX electrodes by a certified welder. All welding shall conform to AWS D1, 1–90.

6. Galvanize ferrous metal exposed to exterior, or concrete (other than reinforcing steel) as noted on the drawings. All units galvanized shall be fabricated into the largest practicable section before galvanizing.

7. Steel shapes, plates, bars, and other assemblies shall be hot dip galvanized in accordance with ASTM A123, (latest edition); small steel shapes sheet articles and rough hardware such as bolts, nuts, and washers shall be hot dip galvanized in accordance with ASTM A386 (latest edition).

8. Shop coat ferrous metal with fabricator's standard lead–free "universal" primer; apply on field coat of primer on all abraded parts of built–in ferrous metals after installation.

9. Corner guards shall be 1 1/2 inches x 1 1/2 inches x 18 gauge stainless steel, satin finish, in various lengths, as manufactured by "Fab–X Metal, Inc" See Corporate Vendor List, sheet SP7 for contact & address.

DIVISION 6 – WOOD AND PLASTICS

SECTION 06100 – ROUGH CARPENTRY

1. Lumber shall be identified by the grade make of an agency certified by the Board of Review of the American Lumber Standards Committee,, and manufactured in accordance with Product Standard PS20–15, published by the United States Department of Commerce.

2. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension.

3. Provide lumber of the following product classifications in grade and species indicated.

   A. Studs, plates, interior wall partitions, shear walls, blocking:
      1) No. 2 Southern Pine
      2) No. 2 Douglas Fir South
      3) No. 2 Western Hemlock
      4) No. 2 Spruce
      5) SPF No. 2 and Better

   B. Headers
      1) No. 2 Southern Pine
      2) No. 2 Douglas Fir South
      3) No. 2 Western Hemlock

2. Lumber: Department of Commerce (DOC) PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules–writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.

   1. Factory mark each piece of lumber with grade stamp of grading agency.

   2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.

   3. Provide dressed lumber, S4S, unless otherwise indicated.

2. Wood–preservative–treated lumber: Preservative Treatment by Pressure Process: AWPA C2, except that lumber that is not in contact with the ground and is continuously protected from liquid water may be treated according to AWPA C31 with inorganic boron (SBX).

   1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
   2. Kiln–dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.
   3. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

3. Miscellaneous lumber: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

   1. Blocking.
   2. Nailers.
   3. Rooftop equipment bases and support curbs.
   4. Cants.
   5. Furring.
   6. Grounds.

   A. For items of dimension lumber size, provide Construction or No. 2 grade lumber with 15 percent maximum moisture content of any species.
   B. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.
   C. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.
   D. For furring strips for installing plywood or hardboard paneling, select boards with no knots capable of producing bent–over nails and damage to paneling.

4. Fasteners: General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
   1. Where rough carpentry is exposed to weather, in ground contact, pressure–preservative treated, or in area of high relative humidity, provide fasteners with hot–dip zinc coating complying with ASTM A 153/A 153M.
   2. Nails, Brads, and Staples: ASTM F 1667.
   3. Power–Driven Fasteners: NES NER–272.
   4. Wood Screws: ASME B18.6.1.
   5. Lag Bolts: ASME B18.2.1.

5. Plywood and OSB: Panalized lumber shall bear the grade, trademark and panel identification system of the American Plywood Association, and shall conform to the requirements of PSI US Product Standard for Construction and Industrial Plywood. Plywood which has edge or surface permanently exposed to the weather shall be exterior grade, regardless of appearance grade specified.

6. Install plywood roof deck with face grain across supports, using panels continuous over two or more spans. Stagger layout minimum of 24 inches with adjacent panels. Allow 1/16 inch space at panel ends and 1/8 inch space at panel edges.

7. Plywood for Flitch materials shall be 1/2 inch, 22/32 inch or 3/4 inch thick CDX plywood. Plywood for fire rated assemblies must comply with U.L. assembly requirements, minimum grade to be "C–D" plywood.

8. Plywood for shear walls shall be as indicated on the Structural drawings.

9. Provide blocking or furring for anchoring light fixtures, outlets, equipment supports, mechanical openings, etc., and at all panel joints. See plans for locations of special blocking.

LMHT Project No. 22160.00

INRD national restaurant designers
ARCHITECTS & ENGINEERS
7208 ACC Blvd. 2nd Floor, Raleigh, NC 27617
ph: 919 544 0087 fax: 919 544 9399
A Division of LMHT Associates

STATE OF FLORIDA
GLEN LEHMAN
#97728
REGISTERED ARCHITECT
8/12/22

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RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: SPECIFICATIONS

RibCrib BBQ

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
NRD

Checked By
GRL

Sheet No.
SP102

Drawing File: C:\Users\chudsen\Gpdata\Vocol\temp\AcPublish_4\#9\SP102.dwg
Plotted by: chudsen
Plotted Date: Sep 13, 2022 – 12:59pm

SECTION 06160 – SHEATHING

1. Coordination note: Provide plywood shear walls as indicated wiothin the structural documents. Coordinate with associated related adjacent materials.

2. This Section includes the following:
   1. Wall sheathing.
   2. Roof sheathing.
   3. Weather Barriers.

3. Submittals: Product Data, For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
   1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements. Indicate type of preservative used and net amount of preservative retained.
   2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements. Include physical properties of treated materials.
   3. For weather barriers, include data on air-/moisture-infiltration protection based on testing according to referenced standards.

4. Quality Assurance: For assemblies with fire-resistance ratings, provide materials and construction identical to those of assemblies tested for fire resistance per ASTM E 119 by a testing and inspecting agency acceptable to authorities having jurisdiction.

5. Delivery Storage and Handling: Stack plywood and other panels flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.

6. General Requirements:
   1. Plywood shall be either PS1 or PS2.
   2. Oriented Strand Board (OSB) shall be PS2.

7. Preservative Treated Panels: Preservative treatment by pressure process AWPA C9, containing no arsenic or chromium. Mark plywood with appropriate classification marking of an inspection agency acceptable to authorities having jurisdiction.

8. Fire Retardant Treated Panels: Comply with performance requirements in AWPA C27. Use a treatment that does not promote the corrosion of metal fasteners. Identify fire-retardant-treated plywood with appropriate classification marking of UL, U.S. Testing, Timber Products Inspection, or another testing and inspecting agency acceptable to authorities having jurisdiction.

9. Roof Sheathing: Oriented Strand Board shall be Exposure 1, Structurally I, span rated and in thickness as indicated on the structural documents.

10. Wall Sheathing:
    1. Oriented Strand Board: Exposure 1 Structurally I, span rated and in thickness as indicated on the architectural and structural documents.
    2. Glass Mat Wall Sheathing: Complying with ASTM C 1177/1177M, Regular 1/2" thick, in largest size applicable for vertical installation.
       A. Sheathing Tape for Glass-Mat Gypsum Sheathing Board: Self-adhering glass-fiber tape, minimum 2 inches (50 mm) wide, 10 by 10 or 10 by 20 threads/inch (390 by 390 or 390 by 780 threads/m), of type recommended by sheathing and tape manufacturers for use with silicone emulsion sealant in sealing joints in glass-mat gypsum sheathing board and with a history of successful in-service use.
    3. Weather Barrier Oriented Strand Board Sheathing: Basis of design is Huber Engineered Woods LLC; ZIP System Wall Sheathing. 1/2" thickness, performance category 32/16 Structural 1, Square edge profile. Weather Barrier Panel shall be a Medium-density, phenolic-impregnated sheet material qualifying as a Grade D weather-resistive barrier in accordance with ICC-ES AC38.
       A. Self-Adhering Seam and Flashing Tape: Pressure-sensitive, self-adhering, cold-applied, seam tape consisting of polyolefin film with acrylic adhesive, meeting ICC-ES AC148, and tested as part of an assembly meeting performance requirements. Basis-of-Design Product: Provide Huber Engineered Woods; ZIP System Tape.

11. Fasteners: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacturer.
    1. For roof and wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
    2. Nails, Brads, and Staples: ASTM F 1667.
    3. Power-Driven Fasteners: NES NER-272.
    4. Wood Screws: ASME B18.6.1.

12. Installation: Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction, unless otherwise indicated. Use common wire nails, unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections. Install fasteners without splitting wood. Coordinate sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements. Coordinate sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast.

SECTION 06195 – PREFABRICATED WOOD TRUSSES & ENGINEERED LUMBER

1. Coordination note: Coordinate product information and structural requirements with the structural documents.

2. This section includes the following:
   A. Prefabricated wood I-joist.
   B. Prefabricated wood trusss.
   C. Laminated strand lumber (LSL).
   D. Laminated veneer lumber (LVL).
   E. Glue-Laminated construction framing.
   F. Rim Boards.
   G. Accessories including, but not limited to, metal connector plates, structural connectors, fasteners, blocking, curbing, miscellaneous forming and bracing.

3. Work includes the complete furnishing and installation of all pre-fabricated components as shown on the drawings, herein specified and necessary to complete the work.
   A. All Products shall be custom designed to fit the dimensions and loads indicated on the plans and by local codes & loading regulations with all equipment loads.
   B. All trusses shall be designed by the manufacturer and a copy of calculations sealed by a licensed structural engineer given to the Owner & Architect.
   C. Shop drawings showing layout bridging and bracing layout and detail necessary for determining fit, placement and attachment in the building will be provided by the manufacturer.
   D. Production: Do not proceed with fabrication and/or cutting until shop drawings and design calculations have been reviewed and approved by the Structural Engineer and/or Architect.

4. Shop drawings: Submit fabrication and assembly drawings showing structural members and indicating materials, member sizes, design values, materials and dimensional relationship of components, assembly configuration, erection sequence, piece numbering; metal plate connectors, extent of fire retardant or preservative treatment, bearing and anchorage details and requirements.
   A. Drawings for installed products indicated to comply with design loads shall include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
   B. Provide truss fabricator's design and engineering data for the required trusses including stress diagrams under the signature, seal and registration number of a qualified structural engineer.
   C. Field Measurements: Indicate verified field measurements on the Shop Drawings.
   D. Shop Drawings shall not be copies or modified copies of the Contract Drawings.

5. Delivery, storage, and handling.: Arrange delivery of engineered lumber and trusses in accordance with construction schedule to avoid double handling. Keep materials dry during delivery, storage, handling, and erection, by maintaining factory-applied protective covering in weather-tight and light-proof condition. Maintain protective covering until building enclosure is completed to extent necessary for protection of timber work. If trusses are to be stored before erection, place individual units or bundle wrapped units on blocks well off ground with individual members separated for air circulation. Do not store trusses in areas of either excessively high or excessively low relative humidity. Leave wrappings intact, but slit or puncture lower side to permit drainage of water which may accumulate inside wrapping.

6. Products:
   A. TJI members basis of design as manufactured by "Red Built" or equal- size per drawings
      A.1. Flange members, web members and adhesives shall conform to the provisions of NER Report No. 200.
      A.2. TJI Joists shall be manufactured in a plant approved for the fabrication by the building code and under supervision of an approved third party inspection agency.
      A.3. Each hoist shall be identified by a stamp indicating the joist type, NER report number, manufacturers name, plant number and independent inspection agency logo.
   B. Open web truss members basis of design as manufactured by "Red Built" or equal Red-L and Red-S – size per drawings
      B.1. Chord members, web members, connecting pins and bearing hardware/attachments shall conform to the provision of NER report No.148
      B.2. All trusses shall be manufactured in a plant approved for fabrication by the building code and under supervision of an approved third party inspection agency.
      B.3. Each truss shall be identified by a stamp indicating the truss series, NER report number, manufacturer name, plant number, and independent inspection agency logo.
   C. Laminated Veneer Lumber (LVL) members basis of design as manufactured by "Red Built" – size per drawings
      C.1. All Laminated Veneer Lumber shall be designed and manufactured to the standards set forth in the NER-126 Report.
      C.2. Allowable unit stresses required for dry conditions of use for veneer laminated lumber shall be as follows:
         a. Bending 2900 PSI
         b. Compression parallel to grain 2635 PSI
         c. Horizontal shear 285 PSI
         d. Compression perpendicular to grain 750 PSI
      C.3. Laminated veneer lumber member sizes shown are net, other member sizes are nominal.

5. Erection and Installation
   A. All trusses, if stored prior to erection shall be stored in a vertical position and protected from the weather. They shall be handled with care so they are not damaged. The Joists are to be erected and installed in accordance with the plans, specifications, and the installation instructions from the manufacture. Temporary construction loads which cause stresses beyond design limits are not permitted. Erection bracing, in addition to that specified, is to be provided to keep trusses straight and plumb as required and to assure adequate lateral support for the individual trusses and the entire system, until the sheathing material has been applied.
   B. The Contractor shall give notification prior to enclosing the trusses to provide opportunity for inspection of the installation.
   C. Products delivered shall be free from manufacturing errors or defects in workmanship and material. The products shall perform to specifications for the normal and expected life of the building.

SECTION 06200 – FINISH CARPENTRY

1. The work required by this section consists of, but is not limited to the following:
   A. Interior and exterior standing and running trim.
   B. Window sills, head, and jambs.
   C. Office and closet shelving and rods.
   D. Interior plastic laminate cabinets and countertops.
   E. Glue-Laminated construction framing.
   F. Wood wall paneling.

2. Cabinetry and countertop work shall conform to the Custom Grade Standards of the American Woodworking Institute. Cabinetry and countertops shall be supplied and installed by the furnishings and Equipment Contractor.

3. Submittals: Provide product data for each type of factory-fabricated product and process specified, including details of construction relative to materials, dimensions of individual components, profiles, textures, and colors.

4. Quality Assurance: Engage an experienced Installer who has completed finish carpentry similar in material, design, and extent to that indicated for this project and with a record of successful in-service performance.

5. Delivery and Storage: Keep materials under cover and dry. Protect against exposure to weather and contact with damp or wet surfaces. Stack lumber, plywood, and other Provide for air circulation within and around stacks and under temporary coverings.Do not deliver interior finish carpentry until environmental conditions meet requirements specified for installation areas. If finish carpentry must be stored in other than installation areas, store only where environmental conditions meet requirements specified for installation areas.

6. Environmental Limitations: Do not deliver or install interior finish carpentry until building is enclosed and weatherproof, wet-work in space is completed and nominally dry, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels through the remainder of construction period.

7. Lumber Standards: Comply with DOC PS 20, "American Softwood Lumber Standard," for lumber and with applicable grading rules of inspection agencies certified by American Lumber Standards Committee Board of Review.

8. Grade Stamps: Provide lumber with each piece factory marked with grade stamp of inspection agency evidencing compliance with grading rule requirements and identifying grading agency, grade, species, moisture content at time of surfacing, and mill. For exposed lumber, furnish pieces with grade stamps applied to ends or back of each piece, or omit grade stamps entirely and provide certificates of grade compliance issued by inspection agency.

9. Exterior Standing and Running Trim:
   A. Softwood Trim: Provide finished lumber and moldings complying with the following requirements including those of the grading agency listed with species:
      1. Species; White Pine; NLGA, WCLIB, or WWPA, finished lumber (S4S), 10'-0" or longer in length.
      2. Grade: B & Btr. Select or Supreme.
      3. Texture: Surfaced (smooth).
      4. Lumber for Painted Finish: Glued-up lumber or solid lumber stock.

10. Interior Standing and Running Trim:
    A. Softwood Trim: Provide finished lumber and moldings complying with the following requirements including those of the grading agency listed with species:
       1. Species: White Pine; NLGA, WCLIB, or WWPA, finished lumber (S4S), 10'-0" or longer in length.
       2. Grade: B & Btr. Select or Supreme.
       3. Texture: Surfaced (smooth).
       4. Lumber for Transparent Finish (Stained or Clear): Solid lumber stock.
       5. Lumber for Painted Finish: Glued-up lumber or solid lumber stock.
    B. Hardwood Trim: Provide finished hardwood lumber and moldings complying with the following requirements:
       1. Species: Clear, kiln-dried white hardwoods.
       2. Texture: Surfaced (smooth).
       3. Lumber for Transparent Finish (Stained or Clear): Solid lumber stock.
       4. Lumber for Painted Finish: Glued-up lumber or solid lumber stock.

11. Interior Wood Window Sills:
    A. Softwood Trim: Provide finished lumber complying with the following requirements including those of the grading agency listed with species:
       1. Species: White Pine; NLGA, WCLIB, or WWPA, finished lumber (S4S), 10'-0" or longer in length.
       2. Grade: B & Btr. Select or Supreme.
       3. Texture: Surfaced (smooth).
       4. Lumber for Transparent Finish (Stained or Clear): Solid lumber stock.
       5. Lumber for Painted Finish: Glued-up lumber or solid lumber stock.

SECTION 06200 – FINISH CARPENTRY (continued)

12. Decorative Pre-Finished Wall Paneling:
    A. Provide wood paneling as indicated within the construction documents meeting the requirements below:
       1. Materials: Federal Specification LLL-B-805 Class I Finish A.B.P.A. PS 59-73, Meets ANSI and AHA Standards for pre-finishing paneling.
       2. Core: High density fiberboard.
       3. Texture: Surfaced (smooth).
       4. Provide melamine veneer with species and cut as indicated. AWI Finish System TR-4 Custom grade finish. Thickness as indicated on the drawings, or if not indicated provide a minimum of 1/4".

13. Miscellaneous Materials:
    A. Fasteners for Interior Carpentry: Provide as indicated within the construction documents meeting the requirements below:
       1. Nails, screws, and other anchoring devices of type, size, material, and finish required for application indicated to provide secure attachment, concealed where possible.
       2. Glue: Aliphatic- or phenolic-resin wood glue recommended by manufacturer for general carpentry use.

14. Installation:
    A. General Requirements: Do not use finish carpentry materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements. Do not use manufactured units with defective surfaces, sizes, or patterns. Install finish carpentry plumb, level, true, and aligned with adjacent materials. Use concealed shims where required for alignment. Scribe and cut finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by manufacturer. Countersink nails, fill surface flush, and sand where face nailing is unavoidable. Install to tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm) for plumb and install adjoining finish carpentry with 1/32-inch (0.8-mm) maximum offset for flush installation and 1/16-inch (1.5-mm) maximum offset for reveal installation. Coordinate finish carpentry with materials and systems in or adjacent to standing and running trim and rails. Provide cutouts for mechanical and electrical items that penetrate exposed surfaces of trim and rails.
    B. Standing and Running Trim Installation: Install with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches (610 mm) long, except where necessary. Stagger joints in adjacent and related standing and running trim. Cope at returns and miter at corners to produce tight-fitting joints with fullsurface contact throughout length of joint. Use scarf joints for end-to-end joints. Plane backs of casings to provide uniform thickness across joints, if required. Match color and grain pattern across joints. Install trim after gypsum board joint finishing operations are completed. Drill pilot holes in hardwood before fastening to prevent splitting. Fasten to prevent movement or warping. Countersink fastener heads on exposed carpentry work and fill holes.
    C. Adjusting: Repair damaged or defective finish carpentry where possible to eliminate functional or visual defects. Where not possible to repair, replace finish carpentry. Adjust joinery for uniform appearance. Clean finish carpentry on exposed and semiexposed surfaces. Touch up factory applied finishes to restore damaged or soiled areas. Provide final protection and maintain conditions that ensure finish carpentry is without damage or deterioration at the time of Substantial Completion.

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 07200 – BUILDING INSULATION

1. The work required by this section consists of, but is not limited to the following:
   A. Exterior walls.
   B. Interior walls (sound attenuation batts).
   C. Ceiling and roof areas.
   D. Safing.
   E. Slab perimeter insulation.
   F. Sill seals.
   G. Vapor barrier.

2. Quality Assurance: Engage an experienced Installer who has completed installations similar in material, design, and extent to that indicated for this project and with a record of successful in-service performance. Provide insulation and related materials with the fire-test-response characteristics indicated, as determined by testing identical products per ASTM E 84 for surface-burning characteristics, by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.

3. Delivery and Storage: Keep materials under cover and dry. Protect against exposure to weather and contact with damp or wet surfaces. Store materials off the ground under cover.

4. Mineral Fiber Insulation:
   A. Foil-Faced Type: Glass fiber thermal insulation with foil-scrim-kraft vapor-retarder membrane on one face, complying with ASTM C 665, Type III, Class A (flame spread of 25 or less), batt or roll type, with stapling flanges.
      4.1. Width: Equal to stud or joist spacing.
      4.2. Thickness: Minimum (R-21), and thicker if indicated on the drawings, in Enery code requirements on Sht. T1, or specified below.
   B. Craft-Faced Type: Glass fiber thermal insulation with kraft vapor-retarder membrane on one face, complying with ASTM C 665, Type II, batt or roll type, with stapling flanges.
      4.1. Width: Equal to stud or joist spacing.
      4.2. Thickness: Minimum (R-21), and thicker if indicated on the drawings, in Enery code requirements on Sht. T1, or specified below.
   C. Un-Faced Type: Noncombustible glass fiber thermal insulation, complying with ASTM C 665, Type I, batt or roll type.
      4.1. Width: Equal to stud or joist spacing.
      4.2. Thickness: Minimum (R-21), and thicker if indicated on the drawings, in Enery code requirements on Sht. T1, or specified below.
   D. Sound Attenuation Batts: Unfaced glass fiber acoustical insulation complying with ASTM C 665, Type I.
      4.1. Surface Burning Characteristics: Maximum flame spread: 10, Maximum smoke development: 10, when tested in accordance with ASTM E 84.
      4.2. Combustion Characteristics: Passes ASTM E 136.
      4.3. Fire Reisistance Rating: Passes ASTM E 119 as part of a complete fire tested wall assembly.
   E. Safing Batts: Unfaced mineral wool insulation complying with ASTM C 612, Type 1-4.
      4.1. Surface Burning Characteristics: Flame Spread/Smoke Developed, Unfaced 5/0 or less.
      4.2. Combustion Characteristics: Passes ASTM E 136. Fire Reisistance Rating: Passes.

5. Closed Cell Foam Insulation:
   A. Roof Insulation: Verify compatibility with Roofing Membrane – use any slip sheets as may be required. Thickness as required for "R" value shown on drawings "Thermal Envelope" on Dwg. T1.
      1. Flat Foam Roof Insulation with Coated Glass Facer; closed-cell polyisocyanurate foam core bonded to high performance coated glass fiber facers on both sides; conforming to ASTM C 1289, Type II, Class 1 with square edges.
      2. Blowing Agent: Zero ODP, 3rd generation.
      3. Fire Ratings:
         a.o.a. UL 790 (ASTM E 108), Class A, for external flame.
         a.o.b. UL 263 (ASTM E 119), for internal flame.
         a.o.c. FM 4450/4470, Class 1. Fire Rating.
      4. Compressive Strength: 20 pounds per square inch (138 kPa) Grade 2.
      5. R Value: Provide Insulation with LTTR (Long Term Thermal Resistance) in accordance with ASTM C 1289. Minimum thickness of panels shall be as shown as required for "R" value in "Thermal Envelope" on T1
      6. Alternate Upgrade: 3/8" "Densdecking" installed over top of rigid roof insulation per manufacturer's standard details. Provide alternate bid cost for supplying and installation. Use to be determined by Owner's Project Manager.
   B. Perimeter Slab Insulation where required: Polystyrene Rigid Insulation, performed expanded, CFC free, polystyrene or foamed glass closed-cell rigid insulation with a density of 1-lb. per cubic foot, a thermal resistance of 4.0 per inch of thickness and meeting UL 1256.

6. Sill Seals: Roof Insulation: Sill Plate Gasket to be installed between concrete slab and wood sill plate, follow manufacturer's written instructions. 3/8" thick Polyethylene with self adhesive strip.
   1. Use "Plate Liner" as manufactured by Protecto Wrap or equal.
   2. Width to match stud plate width.

7. Vapor Retarder: Retarder must exceed the ASTM E 1745 Class A requirements:
   1. Water Vapor Permeance: ASTM F 1249 or ASTM E 96 – 0.1 Perm
   2. Puncture Resistance: ASTM 1709 – 2200 grams or more
   3. Tensile Strength: ASTM D 882 – 45.0 lbf/in
   4. Life Expectancy: ASTM E 154 – Indefinite
   5. Must Be 100% Virgin Resin Polyethylene
   6. Thickness: 6 mil for vapor retarder (walls)
   7. Locate as follows: Exterior side of external wall: FA, GA, MS, AL, LA. Interior side of external wall: all states except as noted above.

SECTION 07200 – BUILDING INSULATION (continued)

8. Vapor Barrier: Vapor Retarder (Stego Industries, LLC. Wrap 10-Mil Class A Vapor Retarder or equal) must exceed the ASTM E 1745 Class A requirements:
   1. Water Vapor Permeance: ASTM F 1249 or ASTM E 96 – 0.0254 Perm
   2. Puncture Resistance: ASTM 1709 – 3306 grams or more
   3. Tensile Strength: ASTM D 882 – 50.6 lbf/in
   4. Must Be 100% Virgin Resin Polyolefin
   5. Thickness: 10 mil for vapor retarder (under slab)

9. Insulation:
   A. Examine the areas and conditions under which work of this Section will be installed. Correct conditions detrimental to proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.
   B. Installation of concealed low density fiberglass blanket/batt thermal insulation:
      1. Between Roof Joists:
         1.1. Fit insulation blanket between joists, staple to joists through nailing flaps provided.
         1.2. Place foil face on the interior side.
      2. In Wood Stud Walls:
         1.1. Fit insulation blanket between studs. Staple to studs through nailing flaps provided.
         1.2. Place foil face on the interior side.
   C. In Metal Stud Walls:
      1.1. Friction fit insulation blanket between studs.
      1.2. Place foil face on the interior side.
   D. Do not install insulation on top of or within 3 inches of recessed light fixtures unless the fixtures are UL approved for such use.

SECTION 07460 – JAMES HARDIE/NICHIHA SIDING & TRIM

1. Work under this section is subject to the provisions of the contract documents which in any way affect the work specified herein.

2. Scope:
   A. Furnish and install plank, panel and shingle fiber-cement siding, trim fascia and molding and accessories where shown on drawings or as specified herein.
   B. Coordinate this section with interfacing and adjoining work for proper sequence of installation.
   C. Work in other sections affecting this work.
      1. Rough Carpentry 06100
      2. Sheathing 06160
      3. Building Insulation 07200

3. Quality Assurance: Provide fiber-cement siding that is tested and labeled according to ASTM C 1186 by a qualified testing agency acceptable to authorities having jurisdiction.
   A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.
   B. Installer Qualifications: Company specializing in performing Work of this section with minimum three years documented experience.

4. Product Handling:
   A. Stack plank / panel / trim on edge or lay flat on a smooth, level surface. Protect edges and corners from chipping. Store sheets under cover and keep dry prior to installing.

5. Job Conditions:
   A. Substrate of wood framing selected for minimal shrinkage and complying with local building codes, with wall sheathing including the use of weather-resistive barriers and/or vapor barriers where required. Minimum 1½ inch framing, face and straight, true, of uniform dimensions and properly aligned.
   B. Install weather-resistive barriers and claddings to dry surfaces.
   C. Repair any punctures or tears in the weather-resistive barrier prior to the installation of the siding.
   D. Protect siding from other trades.

6. Warranty:
   A. Limited product warranty against manufacturing defects in plank lap and panel vertical siding for 50 years, and HardiTrim for 10 years.
   B. Workmanship: application limited war+ranty for 5 years.

7. Products:
   A. Plank / panel / trim Fascia and Molding
      1. Non-asbestos fiber-cement siding to comply with ASTM Standard Specification C1186 Grade II, Type A.
      2. Siding to meet the following building code compliance National Evaluation Report No. NER 405 (BOCA; ICBO, SBCC)); City of Los Angeles, Research Report No. 24862; Metro Dade County, Florida Acceptance No. 94-1234.04; US Department of Housing and Urban Development Materials Release 1263a; California DSA PS-019; and City of New York MEA 223-93-M.Non-asbestos fiber-cement siding to be non-combustible when tested in accordance with ASTM test method E136.
      3. Type: (SEE ELEVATIONS A5 & A6)
         a. (Plank Beaded Smooth .312" x 8.25" W / 7" EXP),
         b. (Stucco Vertical Siding Panel 4' x 8'),
      4. Trim Type: Sized per exterior finish schedule and details as listed by the manufactures installation instructions of James Hardie Building Products.

8. Fasteners: Wood framing: 6d common corrosion resistant nails.

9. Installation:
   A. Surface Conditions
      1. Correct conditions detrimental to timely and proper completion of work.
   B. Installation – Hardietrim Fascia and Molding
      1. Install flashing around all wall openings.
      2. Fasten through trim into structural framing or code complying sheathing. Fasteners must penetrate minimum ? inch or full thickness of sheathing. Additional fasteners may be required to ensure adequate security.
      3. Place fasteners no closer than ? inch and no further than 2 inch from side edge of trim board and no closer than 1 inch from end. Fasten maximum 16 inch on center.
      4. Maintain clearance between trim and adjacent finished grade.
      5. Trim inside corner with single board.
      6. Install single board of outside corner board then align second corner board to outside edge of first corner board. Do not fasten Harditrim board to Hardietrim board.
      G. Allow 1/8 inch gap between trim and siding.
      H. Seal gap with high quality, paint-able caulk.
      I. Shim frieze board as required to align with corner trim.
      J. Install Hardietrim fascia over structural subfascia.

9. Installation – Hardieplank Siding
   A. Starting: Install a minimum ¼ inch thick lath starter strip at the bottom course of the wall. Apply planks horizontally with minimum 1¼ inch wide laps at the top. The bottom edge of the first plank overlaps the starter strip.
   B. Allow minimum 1 inch vertical clearance between roofing and bottom edge of siding.
   C. Align vertical joints of the planks over framing members.
   D. Maintain clearance between siding and adjacent finished grade.
   E. Locate splices at least one stud cavity away from window and door openings.
   F. Use off-stud metal joiner when vertical joints occur between framing members. Position metal joiner so that the bottom lip is resting on the solid course of planks. Fasten plank to the framing. Position and fasten abutting plank into place insuring that the lower edges of the two planks align. Locate metal joiner centrally behind the joint. Locate off-stud splices a minimum of two stud cavities from wall corners and stagger all subsequent course splices at minimum 24 inch intervals when located in the same wall cavity.
   G. Wind Resistance: Where a specified level of wind resistance is required Hardieplank lap siding is installed to framing members and secured with fasteners described in Table No. 2 in National Evaluation Service Report No. NER-405.

10. Installation – Hardiepanel Siding:
    A. Block framing between studs where Hardiepanel siding horizontal joints occur.
    B .Place fasteners no closer than 3/8 inch from panel edges and 2 inch from panel corners.
    C. Allow minimum 1 inch vertical clearance between roofing and bottom edge of siding.
    D. Maintain clearance between siding and adjacent finished grade.
    E. Specific framing and fastener requirements refer to Tables 2 and 3 in National Evaluation Service Report No. NER-405.

11. Finishing:
    A. Finish unprimed and pre-finished siding a with minimum one coat high quality, alkali-resistant primer and one coat of either 100% acrylic or latex or oil based, exterior grade topcoat or two coats high quality, alkali-resistant, 100% acrylic or latex, exterior grade topcoat within 90 days of installation. Follow paint manufacturer's written product recommendation and written application instructions. (SEE ELEVATIONS FOR ADDITIONAL PAINT INFORMATION)

SECTION 07540 – SINGLE PLY MEMBRANE ROOFING SYSTEM

1. The work required by this section consists of, but is not limited to the following:
   A. Thermoplastic roofing membrane, mechanically fastened to substrate.
   B. Prefabricated flashings, corners, parapets, stacks, vents, and related details.
   C. Fasteners, adhesives, and other accessories required for a complete roofing installation.
   D. Traffic Protection.

2. Quality Assurance: Perform work in accordance with NRCA ML104 and manufacturer's installation instructions. Engage a manufacturer specializing in the production of PVC membranes systems and utilizing a Quality Control Manual during the production of the membrane roofing system that has been approved by and is inspected by Underwriters Laboratories. The installer should be a Company specializing in installation of roofing systems similar to those specified in this project and approved by the roofing system manufacturer.

3. Physical Properties: Roof system shall be provided by Duro-Last Roofing, Inc. conforming to ASTM D 4434, Type III or IV, fabric reinforced, PVC, 60 mil, face color to be white. Must meet or exceed the following physical poroperties:
   A. Roof product must meet the requirements of type III PVC sheet roofing as defined by ASTM D 4434 and must meet or exceed the following physical properties.
   B. Thickness: 60 mil (1.52 mm), nominal in accordance with ASTM D 751.
   C. Breaking Strengths: greater than 438 lbf. (MD) and greater than 390 lbf. (XMD) in accordance with ASTM D 751, Grab Method.
   D. Elongation at Break: greater than 31 percent in accordance with ASTM D 751, Grab Method.
   E. Heat Aging in accordance with ASTM D 3045: 176 degrees F for 56 days. No sign of cracking, chipping or crazing. (In accordance with ASTM D 4434).
   F. Factory Seam Strength: greater than 431 lbf in accordance with ASTM D 751, Grab Method.
   G. Tearing Strength: greater than 132 lbf. (MD) and greater than 163 lbf. (XMD) in accordance with ASTM D 751, Procedure B.
   H. Low Temperature Bend (Flexibility): Pass at minus 40 degrees F in accordance with ASTM D 2136.
   I. Accelerated Weathering: No cracking, checking, crazing, erosion or chalking after 5,000 hours in accordance with ASTM G 154.
   J. Linear Dimensional Change: less than 0.5 percent in accordance with ASTM D 1204 at 176 plus or minus 2 degrees F for 6 hours.
   K. Water Absorption: less than 3 percent in accordance with ASTM D 570 at 158 degrees F for 166 hours.
   L. Static Puncture Resistance: greater than 56 lbs. in accordance with ASTM D 5602.
   M. Dynamic Puncture Resistance: greater than 14.7 ft-lbf in accordance with ASTM D 5635.
   N. Delivery and Storage: Keep materials under cover and dry. Protect against exposure to weather and contact with damp or wet surfaces. Store materials off the ground under cover.

4. Delivery, Storage and Handling:
   A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.
   B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
   C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
   D. Store roof materials and place equipment in a manner to avoid permanent deflection of deck.
   E. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

5. Project Conditions: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's specification. Do not apply roofing membrane during inclement weather, or to damp or frozen deck surface or when precipitation is anticipated. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed in the same day.

6. Warranty:
   A. Installer Warranty: Warrant the workmanship and proper application of roof system for one year from the date of certificate of occupancy. Repair any leaks covered under the warranty that occur during this period to the satisfaction of the Owner and the roof membrane manufacturer. All corrective work will be done at no cost to the Owner.
   B. Manufacturer Warranty: Provide a no-dollar limit type warranty with provisions for completion of repairs, replacement of membrane or total replacement of the roofing system at the then-current material and labor prices throughout the life of the warranty. Warranty must also meet the following criteria:
      1. Warranty Period: 10 years from date issued.
      2. Include no exclusions for damage caused by ponded water or biological growth, or for incidental or consequential damages.
      3. Issued direct from and serviced by the roof membrane manufacturer.
      4. Be transferable for the full term of the warranty.
      5. Include no additional charges for the warranty.

7. Roofing System Components: Roofing Membrane shall be Duro-Last Specially Formulated Roofing Membrane by Duro-Last Roofing, Inc. conforming to ASTM D 4434, Type III or IV, fabric reinforced, PVC. Membrane properties as follows:
   A. Thickness: 60 mil
   B. Exposed face color: White

8. Accessory Roofing Materials: Provide accessory materials as manufactured by the roof membrane manufacture:
   A. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet membrane.
   B. Prefabricated Flashing: Prefabricated flashings for pipes, curbs, inside and outside corners of same material, type, reinforcement, and color as PVC sheet membrane.
   C. Sealants and Adhesives: Caulk, pourable sealant, mastic and adhesives compatible with roofing system.
   D. Slip Sheet and Cover Boards: Slip sheet or cover boards, of type required by roof membrane manufacturer for the application.
   E. Termination Bars: Standard rigid exterior vinyl bar, 1.5 inches (38 mm) wide with slotted holes 6 inches (152 mm) on center.
   F. Edge Detail: Fascia bar and cover, prefabricated Drip Edge, prefabricated Gravel Stop, 2-Piece Compression Metal Edge.
   G. Vinyl Coated Metal: 24 gauge, hot-dipped galvanized, grade 90 metal with a minimum of 17 mil of Duro-Last membrane laminated to one side.
   H. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate.
   I. Two-Way Roof Vents: As recommended by roof membrane manufacturer and installed with a minimum of 1 vent for each 1,000 square-feet (93 sm) of roof area.
   J. Coated Glass Fiber Slip Sheet: If required, Conforming to ASTM D 146 and D 828, coated glass fiber slip sheet as approved by roof membrane manufacturer and that provides the required fire classification. install number of plies necessary to achieve the required fire classification.
   K. Walkways: Provide non-skid, maintenance-free walkway pads in areas of heavy foot traffic and around mechanical equipment. Walkway pads must be as manufactured by roof membrane manufacturer.

9. Installation Preparation: Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. Surfaces shall be clean, smooth, free of fins, sharp edges, loose and foreign material, oil, grease, and bitumen.

10. Installation: Install roofing system in accordance with the membrane manufactures installation instructions. See sections 07200 for insulation installation requirements.
    A. Mechanical Insulation Attachment: Use only fasteners, stress plates and fastening patterns accepted for use by roof membrane manufacturer using fastening patterns that meets applicable design requirements.
    B. Mechanically Fastened Membrane: Mechanically fastened membrane to the structural deck utilizing fasteners and fastening patterns that in accordance with roof membrane manufacturer's requirements. Cut membrane to fit neatly around all penetrations and roof projections. Unroll roofing membrane and positioned with a minimum 6 inch overlap.
    C. Seaming: Weld overlapping sheets together using hot air. Minimum weld width is 1-1/2 inches (38 mm). Check welded seams for continuity and integrity by the end of each work day. Repair all imperfections.

LMHT Project No. 22160.00

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SECTION 07540 – SINGLE PLY MEMBRANE ROOFING SYSTEM (continued)

D. Membrane Termination/Securement: All membrane terminations shall be completed in accordance with roof membrane manufacturer's requirements.

E. Flashings: Complete all flashings and terminations as indicated on the Drawings and in accordance with roof membrane manufacturer's requirements.

F. Penetrations: Flash all pipes, supports, soil stacks, cold vents, and other penetrations passing through the roofing membrane as indicated on the Drawings and in accordance with roof membrane manufacturer's requirements. Utilize custom prefabricated flashings supplied by roof membrane manufacture where applicable.

H. Pipe Clusters and Unusual Shapes: Clusters of pipes or other penetrations which cannot be sealed with prefabricated flashings or membrane shall be sealed by surrounding them with pourable sealer supplied by roof membrane manufacturer.

I. Roof Drains: Provide a smooth clean surface on the mating surface between the clamping ring and the drain base. Taper insulation around the drain to prevent the membrane from bridging and to provide a smooth transition from the roof surface to the drain clamping ring. Use sealant to seal between the membrane and the drain base using constant, even compression from the drain clamping ring.

J. Fascia/Drip Edge/Gravel Stop: Provide fascia bar and cover, drip edge and gravel stop as indicated on the Drawings. Install in accordance with roof membrane manufacturer's requirements.

K. Manufactured Roof Specialties: Coordinate installation of copings, counter flashing systems, gutters, downspouts, and roof expansion assemblies.

L. Walkways: Install walkways in accordance with roof membrane manufacturer's requirements. Provided walkways where indicated on the Drawings. Do not install walkways over flashings or fields seams until field inspections by roof membrane manufacturer have been completed.

SECTION 07600 – SHEET METAL

1. The fabrication and installation of sheet metal work shall be in accordance with the details on the drawings, and the "Architectural Sheet Metal Manual" published by the Sheet Metal and Air Conditioning Contractors National Association.

2. Sheet metal flashings, gutters, metal drip edge, downspouts, and trim shall be fabricated from 24 gauge paint grip zinc coated steel. See Architectural Drawings for specific details for gutter installation. Metal coping shall be fabricated from 22 gauge paint grip zinc coated steel (See Drawings).

3. Downspouts shall be fabricated in accordance with Plate 32, Figure B of the Architectural Sheet Metal Manual. Hangers shall be 1/16 inch x 1 inch galvanized steel, installed at not over 6'-0" centers, and not less than three (3) per downspout. Fasten hangers to wall with noncorrosive fasteners. Lap downspout joints 1 1/2 inches minimum in direction of water flow.

4. Flashing shall be installed to conform with shapes and sizes as shown on drawings. Lap splice ends minimum of 4 inches and seal contact surfaces with plastic cement. Seal at ends by turning back min. 1 inch and set in plastic cement. Separate all dissimilar materials surfaces with mastic or asphaltic paint.

5. All sheet metal fabrications shall be painted as specified in Section 09900, and in strict accordance with the exterior finish schedule on the drawings.

6. Conceal all fasteners, in sheet metal fabrications where possible. Exposed fasteners, where indicated, shall match the color of surrounding material.

7. Work shall be done so as to ensure watertight construction. Make ample provision for expansion and contraction of sheet metal items. Joints shall be soldered, lapped, riveted, locked or sealed as conditions warrant.

SECTION 07920 – JOINT SEALERS

1. The work required under this section includes caulking of all joints around windows, doors, storefront, expansion joints, between dissimilar materials (where indicated on drawings) and as otherwise required for a complete and watertight installation.

2. Exterior sealant shall be a one-part Thiokol base Polysulfide or G.E. silicone sealant; color to be compatible with adjoining surfaces.

3. Clean all joints before caulking; apply primer where required and in quantities as recommended by manufacturer. Install backer rods as detailed. Apply under pressure, tool slightly concave and trim afterwards. Clean all adjacent surfaces after caulking, irregular, "wavy" or otherwise unprofessional caulking will be rejected.

4. Provide closed cell backer rods when required by joint design.

5. Application: All sealants required shall be as follows:

   A. Interior
      at Stained wood: 20 year Siliconized Caulking; match color,
      at Wallpaper: Siliconized Caulking; Matching wallpaper color

   B. Exterior
      Glass at windows: Clear Silicone
      Wood to Wood: Silicone; match paint color
      Wood to Masonry: Silicone, match paint color

   C. Equipment: Clear Silicone

DIVISION 8 – DOORS, WINDOWS, AND GLASS

SECTION 08110 – STEEL DOORS AND FRAMES

1. The work required by this section consists of, but is not limited to the following:

   A. Steel doors and frames.

2. Quality Assurance: All products shall conform to the requirements of ANSI A250.8, "SDI 100 Recommended Specifications for Standard Steel Doors and Frames".

   A. Insulated Doors shall have (per ASTM C1363):
      1. A "U Factor" of 0.39 for a Polyurethane core.
      2. Fire Rated Doors:
         a. Doors shall be tested in accordance with UL 10B, "Fire Tests of Door Assemblies", NFPA 252, "Fire Tests of Door Assemblies", and UL 10C, "Positive Pressure Fire Tests of Door Assemblies". Doors must have an approved marking or physical label, applied by an authorized facility, in accordance with the procedure set forth by an independent certification agency.

2. Delivery, Storage,and Handling: Deliver doors and frames palletized and wrapped to provide protection while in transit. Store all materials under cover. Avoid use of non-vented plastic or canvas shelters to prevent forming of humidity chambers that cause rust. If cardboard wrapping becomes wet, remove cartons immediately. Provide 1/4 inch (6 mm) spacing between doors to provide air circulation.

3. Materials:

   A. Door Construction:
      A. Uncoated Steel Sheet: Cold rolled commercial steel sheet complying with ASTM A 366/A 366M.
      B. Doors: Full flush (No Vertical Face Seams), complying with ANSI A250.8; face panels laminated to core.
      C. Thickness: 1-3/4 inches (44 mm).
      D. ANSI Level 1, Model 1; 18 gage (1.3 mm) faces, visible edge seams.
      E. Faces: Full flush.
      F. Face Material: Cold Roll Steel sheet.
      G. Insulated Doors: Insulated; U-value of 0.39, polyurethane core (per ASTM C1363).
      H. Provide factory mounted labels for all rated doors.

   B. Frame Construction:
      A. Frames: Formed steel sheet, with 2 inch (50 mm) wide face jambs and heads unless otherwise indicated; complying with ANSI A250.8.
      B. Frame Depth: Fixed, as indicated on drawings.
      C. Material: 18 gage (1.2 mm) frames. Cold Roll Steel sheet.
      D. Corners: Exterior – Mitered; face welded and ground smooth.
         Interior – Knock down
      E. Provide 3 anchors per jamb.
      F. Provide 3 silencers for single doors, 2 silencers on head of frame for pairs of doors.
      G. Reinforce frames for all hardware scheduled.
      H. Finish: Factory prime finish.

4. Installation: Install frames plumb, level, rigid and in true alignment in accordance with ANSI A250.11, "Recommended Erection Instructions for Steel Frames" and ANSI A115.IG, "Installation Guide for Doors and Hardware". All frames other than slip-on types shall be fastened to the adjacent structure to retain their position and stability. Drywall slip-on frames shall be installed in prepared wall openings, and shall use pressure type and sill anchors to maintain stability. Where grouting is required in masonry installations, frames shall be braced or fastened to prevent the pressure of the grout from deforming the frame members. Install fire-rated doors and frames in accordance with NFPA 80 and local code authority requirements. Install doors to maintain alignment with frames to achieve maximum operational effectiveness and appearance. Adjust to maintain perimeter clearances as required. Shim as needed to assure the proper clearance is achieved.

SECTION 08200 – WOOD DOORS

1. The work required by this section consists of, but is not limited to the following:

   A. Interior solid core wood doors.

2. Quality Assurance: Unless otherwise specified, all products provided for this project shall be produced by a single manufacturer.
   A. Manufacturer of wood doors shall have not less than ten years successful production of the quality of wood doors specified.
   B. Wood doors shall comply with AWI Quality Standards of the Architectural Woodwork Institute, Premium Grade, Section 1400, Eighth Edition, Version 2.0.

3. Delivery, Storage, and Handling:
   A. Protect wood doors during transit, storage and handling to prevent damage, soiling and deterioration. Replace doors damaged from any cause before final inspection.
   B. Comply with manufacturer's instructions and with "On-Site-Care" requirements of AWI pamphlet "Care and Finishing of Wood Doors."
   C. Deliver wood doors to site after wet construction operations are completed and dry, and building has reached average prevailing relative humidity.
   D. Deliver pre-finished components in manufacturer's original unopened protective covering or container, clearly marked with manufacturer's name, brand name and identifying number on the covering.
   E. Store in clean, dry, well ventilated area protected from sunlight. Avoid extreme heat, cold, dryness or humidity; relative humidity in storage area shall be not less than 30% nor greater than 60%. Store flat over level surface above floor on wood blocking. Under bottom door and over top of stack, provide plywood or corrugated cardboard for protection.
   F. Do not drag doors across one another or across other surfaces.

4. Warranty: Provide the manufacturer's written warranty, agreeing to repair or replace wood doors for one year after Date of Material Completion which have delaminated in any degree, warped or twisted 1/4" or more in plane of door face, telegraphed stile, rail or core through the face to cause surface variation in excess of 1/100" in any 3" span, or for any faulty workmanship

5. Products:
   A. Wood doors shall be 5 or 7-ply and have solid particleboard core, except where fire rating requires a different core, meeting or exceeding the requirements of ANSI A208.1, CS236, type 1 Density C, Class 1, AWI Specification Symbol PC-5/PC-7. AWI1300 PC-5/PC-7 prefinished / premachined.
   B. Stiles and rails shall be securely bonded to the core by non-mechanical method, and shall be minimum 1-3/8" vertical stiles, 1-1/8" top and 1-1/2" bottom rails. Stiles shall match face veneer of doors in appearance.
   C. Adhesive shall be Type 1.
   D. Face veneer shall be AWI Premium Grade Veneer with the quality characteristics of AW1200-S-8 Panel Products, and shall match existing. The minimum thickness of face veneer shall be 1/40" before sanding.
   E. Labeled wood fire doors shall be AWI Type FD, flush panel, with face veneers matching those specified for regular wood doors, with non-combustible mineral core. Provide fire retardant treated matching hardwood, minimum 5/8" after trimming at top rail, 1/2" minimum after trimming at stiles and 1-1/2" minimum after trimming at bottom rail. Fire ratings shall be as indicated on the Door Schedule.
   F. Provide metal frames and removable glazing beads at glazed openings. Prefinished in color as approved by the Architect from the manufacturer's standard colors. Frames shall provide rating protection indicated.

6. Fabrication:
   A. Face veneer and cross band shall be glued to the core in a hot press. The face veneer shall be center balanced on all doors.
   B. Unless otherwise required to match hardware bevel, provide 1/8" standard bevel at strike side stiles.
   C. Fabricate and trim doors to size at the factory to coordinate with approved shop drawings and to accommodate floor finishes indicated on the finish schedule. Pre-fit doors as specified to receive specified hardware conforming to requirements of the hardware suppliers. Provide cut-outs to receive glazed panels and door louvers.
   D. Doors shall be factory-finished as specified below after pre-fitting, conforming to requirements of Section 1500 AWI Standards. Submit samples of stained finish to Architect for approval before beginning work.

7. Finish:
   A. Pre-finish all wood doors at factory to match manufacturer's standard color approved by the Architect.

8. Preparation for Hardware:
   A. Pre-machine all wood doors at factory.
   B. Pre-machine doors in accordance with final approved hardware and frame schedule.
   C. Pre-machine doors within industry tolerances. A plus or minus 1/32" will be allowed on all hardware locations. A plus 1/32" minus 0" tolerance will be allowed on hinge cutouts. A plus 1/64" minus 0" tolerance will be allowed on lock front preparation cutouts.

9. Installation:
   A. Install doors within openings in hollow metal frames. Provide shims and blocking as required to maintain proper positioning.
   B. Protect new doors after hanging. Protection shall prevent gouges in faces, stains, dirt, or damage.
   C. Replace pre-finished doors damaged prior to Date of Material Completion.

10. Adjusting:
    A. Adjust and check each door to ensure operation and function requirements.
    B. Replace or rehang doors which are hinge bound and do not swing or operate without binding.
    C. Remove and replace doors which do not meet requirements specified under WARRANTY above.

SECTION 08380 – TRAFFIC/IMPACT DOORS

1. The work required by this section consists of, but is not limited to the following:

   A. Non-insulated impact traffic doors.
   B. Insulated impact traffic doors.

2. Quality Assurance: Unless otherwise specified, all products provided for this project shall be produced by a single manufacturer.
   B. Manufacturer of wood doors shall have not less than ten years successful production of the quality of Traffic/Impact Doors.

3. Delivery, Storage, and Handling:
   A. Protect doors during transit, storage and handling to prevent damage, soiling and deterioration. Replace doors damaged from any cause before final inspection.
   B. Deliver pre-finished components in manufacturer's original unopened protective covering or container, clearly marked with manufacturer's name, brand name and identifying number on the covering. Do not lay flat.
   C. Store in clean, dry, well ventilated area protected from sunlight. Avoid extreme heat, cold, dryness or humidity; relative humidity in storage area shall be not less than 30% nor greater than 60%. Store flat over level surface above floor on wood blocking. Under bottom door and over top of stack, provide plywood or corrugated cardboard for protection.
   D. Do not drag doors across one another or across other surfaces.

4. Warranty: Provide the manufacturer's written warranty, agreeing to repair or replace wood doors for one year after issuance of a certificate of occupancy which have delaminated in any degree, warped or twisted, or for any faulty workmanship

5. Products: Acceptable Manufacturer:
   A. Eliason Corp., Easy Swing Door Div., which is located at: 9229 Shaver Rd.; Kalamazoo, MI 49024; Toll Free Tel: 800-828-3655; Tel: 269-327-7003; Fax: 800-828-3577; Email: request info (quotes-orders@senneca.com); Web: www.eliasoncorp.com
   B. Chase Industries, Inc. (DBA Chase Doors) Durus Products, 2809 SW 13th Street, Redmond, OR 97756, Telephone: (800) 543-4455. Fax: (800) 285-0126.

6. Impact Traffic Doors: Eliason LWP-6. 0.063 inches (1.6 mm) thick tempered aluminum alloy, delta formed vertical edges; satin anodized finish; mounting screws for flush jambs included.
   A. Facing: Decorative laminate both sides. (Model LWP-6)
   B. Top Panels: 0.032 inch (0.81 mm) decorative laminate, both sides.
   C. Base Plates: 12 inches (305 mm) high 18 gauge (1.2 mm) steel, stainless steel both sides. Easy swing hardware. (Model HCP-10)
   D. Window Size: 9"wide x 24" tall, mounted maximum of 43" from finish floor.
   E. Window Molding: Black rubber molding.
   F. Window: Flush.
   G. Glazing: Clear glazed acrylic.
   H. Facing Color: Plastic laminate to be selected from manufactures standard color range.

SECTION 08380 – TRAFFIC/IMPACT DOORS (continued)

7. Insulated Impact Traffic Doors: Chase Doors Durulite Retailer door. Door Panel shall be a monolithic, hollow shell of high impact, cross-linked polyethylene with minimum wall thickness of 1/8", overall panel thickness of 1-1/2" and textured finish. Leading edge has molded in key extrusion to accept gaskets. Bottom, and back edges are fitted with an aluminum nosing which will accept The top edge has a 1/8" radius.

   A. Door Panel Core: shall be of a non-CFC urethane foam bonded to interior of the high density cross linked polyethylene shell providing an insulating R factor of 9.86.
   B. Standard Hinge System: consists of the following components:
   C. Upper hinge: self-closing "V" cam design; [1-3/8" standard rise]. The fully composite VCam roller assembly resists corrosion and rust. Upper hinge seal shall be semi-rigid black PVC wrapped around a rigid PVC cup that mounts directly to the VCam assembly and moves vertically with the door panel.
   D. Lower hinge: solid cast aluminum lower hinge adapter with UHMW sleeve.
   E. Hinge Shaft: 1 ? diameter tubular steel, which runs the full length of the door and rests in the UHMW Sleeve which is mounted in the Lower Hinge Adapter. The Roller Assembly mounts to the top of the tube steel and rests on the V-Cam.
   F. Window Size: 9"wide x 24" tall, mounted maximum of 43" from finish floor.
   G. Window Molding: ABS frames.
   H. Window: Flush.
   I. Glazing: Clear glazed polycarbonate.
   J. Finish – Plastic laminate – color: White

8. Installation:
   A. Examination: Do not begin installation until substrates have been properly prepared. Verify jambs are plumb and square. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   B. Preparation: Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   C. Installation: Install in accordance with manufacturer's instructions. Anchor assembly to wall construction and building framing without distortion or stress. Fit and align door assembly including hardware. Minimum jamb construction of double studded 2 by 4 wood construction or equivalent. Reinforce hollow metal jambs at hardware locations. Steel channel jambs are required for heavy duty traffic doors. Adjust door assembly to smooth operation and in full contact with weatherstripping.
   D. Cleaning: Clean doors, frames and glass. Remove temporary labels and visible markings.
   E. Protection: Protect installed products until completion of project. Touch-up, repair or replace damaged products before Substantial Completion.

SECTION 08400 – ALUMINUM ENTRANCES AND STOREFRONTS

1. The work required by this section consists of, but is not limited to the following:

   A. Thermally broken aluminum storefronts.
   B. Aluminum entrance doors.

2. Basis of Design: Drawings and specifications are based upon storefront produced by Kawneer Company Inc., Trifab 451T Framing (Thermal), System dimensions shall be 2" x 4–1/2" (50.8 mm x 114.3 mm), Glazing to be Center Plane. Entrance doors shall be based on Kawneer Company Inc., 350 Series Entrances with 3/4" insulated tempered glazing. System dimensions shall be 3 1/2" vertical style, 3½" horizontal style, and 10" bottom rail. Whenever substitutes are to be considered, supporting technical literature, samples drawings and performance data must be submitted to the Owner a minimum of ten (10) days prior to bid in order to make a valid comparison of the product involved.

   A. Acceptible alternate manufacturers:
      Product to be equal to or better than that specified
      Kawneer = U.S. Aluminum

2. Quality Assurance: Unless otherwise specified, all products provided for this project shall be produced by a single manufacturer.
   A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.
   B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.
   C. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

3. Performance Requirements: Aluminum–framed entrance system shall withstand the effects of the following performance requirements without failure due to defective manufacture, fabrication, installation, or other defects in construction.
   A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.
   B. Aluminum Framed Entrance Performance Requirements:
      1.1.1. Wind loads: Provide entrance system, include anchorage, capable of withstanding wind load design pressures designed to meet the local regulatory agency governing the requirements for the project.
   C. Air Infiltration: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 1.57 psf (75 PA) for single and pairs of doors. A single 3'0" x 7'0" (915 mm x 2134 mm) entrance door and frame shall not exceed 1.0 cfm/ft2. A pair of 6'0" x 7'0" (1830 mm x 2134 mm) entrance doors and frame shall not exceed 1.0 cfm/ft2.
   D. Structural Performance: Corner strength shall be tested per the Kawneer dual moment load test procedure and certified by an independent testing laboratory to ensure weld compliance and corner integrity.

4. Warranty: Provide the manufacturer's standard written warranty, agreeing to repair or replace components for two years after the certificate of occupancy for the building, however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

5. Products:
   A. Storefront Framing System: Thermal Barrier (Trifab 451T), Kawneer Thermal Break with two (2) 1/4" (6.4 mm) separations consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections. Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.
   B. Glazing Systems: Glazing Gaskets shall be manufacturer's standard compression types; replaceable, extruded EPDM rubber. Spacers and Setting Blocks shall be manufacturer's standard elastomeric type. Bond-Breaker Tape shall be manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion. Glazing Sealants shall be as recommended by manufacturer for joint type, and as follows:
      B.A. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.
   A. Aluminum Finishes: Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes. Finish to be Kawneer Permanodic AA–M10C21A44, AAMA 611, Architectural Class II Dark Bronze Coating, Color #40 Dark Bronze.

6. Installation:
   A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum–framed storefront system, accessories, and other components.
   B. Install aluminum–framed storefront system level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
   C. Set sill members in bed of sealant or with gaskets, as indicated, for weather tight construction.
   D. Install aluminum–framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within aluminum–framed storefront system to the exterior.
   E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.
   F. After installation, the General Contractor shall adequately protect exposed portions of aluminum surfaces from damage by grinding and polishing compounds, plaster, lime, acid, cement, or other contaminants. The General Contractor shall be responsible for final cleaning.

SECTION 08400 – ALUMINUM ENTRANCES AND STOREFRONTS (continued)

7. Hardware for the entrance door and frame shall be as follows:
   All hardware marked (*) shall meet ADA requirements.

SET	HARDWARE	MANUF/MODEL	FINISH
HW–1A	(1) Top, intermediate, bottom offset pivots	Kawneer	match door
	(*)(1) Panic Hardware	Kawneer – Dor–O–Matic 1990 – Concealed Rod	#40
	Concealed extension bolts – top & bott.		
	(*)(1) Closer, Surface Mounted Heavy Duty	Norton 1601 1–6	#40
	(*)(1) Pull	Kawneer style CO–9	US10B
	(*)(1) Threshold 1/2"x4"x36"	Kawneer	Mill
	(1) Sealair Weathering System	Kawneer	
	(1) Rain Guard at Head		
HW–1B	(1) Top, intermediate, bottom offset pivots	Kawneer	
	(*)(1) Closer, Surface Mounted	Norton 1601 1–6	#40
	(*)(1) Push/Pull	Kawneer style CO–9	US10B
HW–1C	(1) Top, intermediate, bottom offset pivots	Kawneer	match door
	(*)(1) Panic Hardware	Kawneer – Dor–O–Matic 1990 – Concealed Rod	#40
	Concealed extension bolts – top & bott.		
	(*)(1) Closer, Surface Mounted Heavy Duty	Norton 1601 1–6	#40
	(*)(1) Threshold 1/2"x4"x36"	Kawneer	Mill
	(1) Sealair Weathering System	Kawneer	
	(1) Rain Guard at Head		
	EXIT ONLY – NO PULL		
HW–1B	(1) Top, intermediate, bottom offset pivots	Kawneer	
	(*)(1) Closer, Surface Mounted	Norton 1601 1–6	#40
	(*)(1) Pull	Kawneer style CO–9	US10B
	EXIT ONLY – NO PULL		

SECTION 08560 – VINYL WINDOWS

1. The work required by this section consists of, but is not limited to the following:
   A. Fixed vinyl window units.
   B. Color – Dark Bronze

2. Basis of Design: Drawings and specifications are based upon vinyl windows produced by Ply Gem, 1500 Series. Whenever substitutes are to be considered, supporting technical literature, samples drawings and performance data must be submitted to the Owner a minimum of ten (10) days prior to bid in order to make a valid comparison of the product involved.

2. Quality Assurance: Unless otherwise specified, all products provided for this project shall be produced by a single manufacturer:
   A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.
   B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations, with a Minimum of ten (10) years experience manufacturing vinyl (PVC) windows.
   C. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

3. Performance Requirements: Vinyl window systems shall withstand the effects of the following performance requirements without failure due to defective manufacture, fabrication, installation, or other defects in construction.
   A. Provide window units independently tested and found to be in compliance with ANSI/AAMA/NWWDA/A440 101/I.S.2, the most current testing protocols of The National Fenestration Rating Council and performance standards specified in this section.
   B. Compliance: Provide windows that are labeled in compliance with the jurisdiction having authority over the project.

4. Delivery, Storage, and Handling:
   A. Deliver windows to project site in undamaged condition; handle window units to prevent damage to components and finishes.
   B. Store products in manufacturer's unopened packaging, out of direct sunlight or high temperature locations, until ready for installation.

5. Warranty: Submit manufacturer's standard warranty against defects in workmanship and materials. Limited Lifetime Transferable Warranty on extruded solid vinyl member and component parts. Insulating glass has 20 year Warranty for material obstruction of transparency resulting from film formation or dust collection on the interior glass surfaces. Warranty covers all vinyl, glass, and component parts.

6. Products: Fixed Windows for New Construction: Provide units manufactured by Ply Gem from the 1500 Series product line, in sizes as indicated on the drawings.
   A. Fixed Vinyl Windows: Sizes as indicated on drawings.
   B. Frame: Brickmould.
   C. Grille: Simulated divided lite internal to the glass, GBG 5/8" Sculptured.
   D. Glazing: 7/8"" Double glazed, Low E2+ without Argon fill. One lite of low–E and one lite of interior surface low–E. minimum U–value = .30, minimum SHGC = .30
   E. Color: – Dark Bronze
   F. Accessory Materials:
      a. Perimeter Joint Sealant: Type as recommended in printed installation instructions from manufacturer for use between nail fin and exterior sheathing.
      b. Insulation: Type as recommended in printed installation instructions from manufacturer for use between window frame and rough opening.

7. Installation:
   A. Install in accordance with manufacturer's instructions.
   B. Apply sealant around perimeter of window unit between nail fin and exterior sheathing of wall in accordance with manufacturer's instructions.
   C. Install window unit level, plumb and square. Center window unit in opening and secure window unit by nailing through nail fin and screw through jambs as indicated in manufacturer's instructions.
   D. Flash window in accordance with AAMA's Standard Practice for Installation of Windows with a Mounting Flange in Stud Frame Construction.
   E. Insulate between window frame and rough opening with insulation in accordance with manufacturer's instructions.
   F. Adjust units for smooth operation without binding or racking.

8. Cleaning and Protection: Clean soiled surfaces and glass in accordance with manufacturer's instruction prior to substantial completion. Protect installed products until completion of project. Touch–up, repair or replace damaged products before Substantial Completion.

SECTION 08710 – FINISH HARDWARE

1. The hardware supplier shall furnish a finish hardware schedule listing all materials by sets.

2. The hardware supplier shall furnish hardware templates to the door and frame manufacturer, as required.

3. When the hardware is delivered to the job, the Contractor shall receive it, check it against the hardware schedule, and store it in a safe place under lock and key. After installation, protect all items against damage until final inspection.

4. All hardware indicated thus (*) shall meet local ADA requirements.

5. Acceptible alternate manufacturers:
   Product to be equal to or better than that specified in Hardware Schedule
   Schlage = Falcon
   Don Jo = Rockwood
   K2 = Yale
   DoorViewer = Rockwood
   Don Jo (crash stop) = Ives

SECTION 08710 – FINISH HARDWARE

5. Hardware Schedule

SET	HARDWARE	MODEL/FINISH	MANUF.
HW–1	Hardware to be furnished by aluminum door/frame supplier, see Section 08400		
HW–2	(3) hinge	TA2714 5 x4.5 us26d NRP exterior ball bearing hinge	McKinney
	(*)(1) exit alarm	THPA (W) panic bar with 9v exit alarm	Positive Lock
	(*)(1) closer	QDC115 EDA PA Alum s/top HD closer	K2
	(*)(1) weatherstrip	294av jambup weatherstrip, perimeter gasketing	Pemko
	(*)(3) threshold	170a aluminum saddle threshold, 4 x _ x1/2	Pemko
	(*)(1) door scope	DS238 Alum, 2 3/8 dia door scope	DoorScope
	(1) armor plate	90 us32d stainless steel armor plate	Don–Jo
	(1) sweep	315cn neoprene sweep	Don–Jo
	(1) chain	CC–100 21 3/4 crash chain	Don–Jo
	(1) drip cap	346D overhead drip cap	Pemko
HW–3	(3) hinge	MPB79 4.5 x4.5 us26d interior ball bearing hinge	McKinney
	(*)(1) pull plate	H7119 630 4 x16 ADA pull plate	Don–Jo
	(*)(1) push plate	71 630 4 x16 push plate	Don–Jo
	(*)(1) closer	QDC115 EDA PA Alum SN HD closer	K2
	(1) kickplate	90 630 S/S kickplate	Don–Jo
	(1) wall stop	1406 630 convex wall mount door stop	Don–Jo
	(3) silencer	160B metal door frame silencer	Don–Jo
HW–4	(3) hinge	MPB79 4.5 x4.5 us26d NRP exterior ball bearing hinge	McKinney
	(*)(1) exit alarm	THPA (W) panic bar with 9v exit alarm	Positive Lock
	(*)(1) closer	QDC115 EDA PA Alum s/top HD closer	K2
	(*)(1) door scope	DS238 Alum, 2–3/8 dia door scope	DoorViewer
	(*)(1) weatherstrip	294av jambup weatherstrip, perimeter gasketing	Pemko
	(1) threshold	170a aluminum saddle threshold, 4 x _ x1/2"	Pemko
	(1) sweep	315cn neoprene sweep	Pemko
	(1) drip cap	346D overhead drip cap	Pemko
HW–5	Hardware by door manufacturer.		
	(2) stop	1420 626 surface applied stop	Don–Jo
HW–6	(3) hinge	MPB79 4.5 x4.5 us26d interior ball bearing hinge	McKinney
	(*)(1) lockset	AL53pd Sat 626 10–025 11–096 keyed lever entrance lockset, 6pin C	Schlage
	(1) wall stop	1407 630 concave wall mount door stop	Don–Jo
	(3) silencer	160B metal door frame silencer	Don–Jo
HW–6A	(3) hinge	MPB79 4.5 x4.5 us26d interior ball bearing hinge	McKinney
	(*)(1) privacy	AL40S Sat 626 10–025 11–116 privacy lever latchset	Schlage
	(*)(1) closer	QDC111 Reg Arm Alum SN HD closer	K2
	(1) wall stop	1407 630 concave wall mount door stop	Don–Jo
	(3) silencer	160B metal door frame silencer	Don–Jo
HW–7	(3) hinge	MPB79 4.5 x4.5 us26d NRP exterior ball bearing hinge	McKinney
	(*)(1) lockset	AL53pd Sat 626 10–025 11–096 keyed lever entrance lockset, 6pin C	Schlage
	(1) closer	QDC115 EDA Alum s/top HD closer	K2
	(1) weatherstrip	294av jambup weatherstrip, perimeter gasketing	Pemko
	(*)(3) threshold	170a 36 aluminum saddle threshold, 4 x _ x1/2	Pemko
	(1) door scope	DS238 Alum, 2 3/8 dia door scope	DoorScope
	(1) armor plate	90 us32d stainless steel armor plate	Don–Jo
	(1) sweep	315cn neoprene sweep	Pemko
	(1) chain	CC–100 21 3/4 crash chain	Don–Jo
	(1) drip cap	346D overhead drip cap	Pemko
HW–8	(6) hinge	MPB79 4.5 x4.5 us26d interior ball bearing hinge	McKinney
	(*)(1) privacy	AL80pd Sat 626 10–025 11–096 keyed lever storeroom lockset, 6pin C	Schlage
	(*)(1) dummy	AL170 Sat 626	
	(1) ext. bolts	Top & Bottom concealed extension bolts	
	(*)(1) closer	QDC115 EDA Alum SN HD closer	K2
	(1) wall stop	1407 630 concave wall mount door stop	Don–Jo
	(6) silencer	160B metal door frame silencer	Don–Jo
HW–9	(double doors at banquet room)		
	(6) hinge	MPB79 4.5 x4.5 us26d interior ball bearing hinge	McKinney
	(*)(4) pull plate	H7119 630 4 x16 ADA pull plate (back to back mounting)	Don–Jo
	(2) roller latch	1704 626 roller latch	Don–Jo
	(6) silencer	160B metal door frame silencer	Don–Jo
	(2) wall stop	1407 630 concave wall mount door stop	Don–Jo
	(2) kickplate	90 630 S/S kickplate	Don–Jo

Note: For information contact B.A. Hoft Inc. See Corporate Vendor List, sheet SP7 for contact and address.

SECTION 08800 – GLASS AND GLAZING

1. Furnish all labor, material, and equipment required to install all storefront glazing, and mirrors in accordance with the plans and specifications and to the satisfaction of the General Contractor.

2. Glass and glazing: Glass in all exterior storefront walls shall be 3/4 inch thick insulating glass, consisting of two (2) 1/8 (nominal) inch sheets of clear glass with space between. Glass in all storefront windows on the south and west sides must be shaded bronze. Glass in all windows on the north and east sides shall be clear. Minimum U–value = .30, minimum SHGC = .30. See sheet T1 for U–values and shading coefficients and sections 08400 – Aluminum Entrance and Storefront and 08560 – Vinyl Windows.

3. All glass in hazardous locations as prescribed by the local or federal code must be tempered or safety glass. Subcontractor shall check job for exact dimensions. Glass shall be installed with trim and caulking as detailed on drawings.

4. Specialty Glazing:
   a. Acrylic Glazing: Polyester based resin with natural wood imbedded within the panel. Basis of delsgn is 3 Form "Varia Ecoresin", 2300 South 2300 West, Suite B, Salt Lake City, UT 84119,800–726–0126
      1. Product: "Timber Latitude Natural".
      2. Panel Size: 48 inches x 96 inches.
      3. Thickness: 3/8 inch.
   b. Translucent FRP: 0.12" x 4 x 10 Luxcore Plus; ATI Laminates

5. Mirrors over restroom lavatories shall be 18 inches x 36 inches, full length mirrors shall be 16 inches x 48 inches, as shown on drawings, 1/4 inch polished plate glass with electrolic–copper backing. Secure to wall with concealed chrome anchors over each vanity and at wall.

6. Installation: All work shall be in strict accordance with FGMS Glazing Manual Specifications and as described in the Glazing Sealing Systems Manual of the Flat Glass Marketing.

7. Cleaning: The Contractor is to leave all glass and glazing clean and free of stain, dirt, paint, excess caulking and stickers (wash clean). The General Contractor will furnish an open container for the disposol of trash and debris. It is the responsibility of Subcontractor to daily place all trash and debris, caused by his work, into the container provided.

8. Warranty: The Subcontractor shall warrant for a period of one year, the windows against water leaks, and the insulating glass units against stress breakage and air leaks, and will replace free of charge any such damaged units.

LMHT Project No. 22160.00

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DIVISION 9 – FINISHES

SECTION 09250 – GYPSUM DRYWALL

1. The work required by this section consists of, but is not limited to the following:
   - A. Regular Gypsum Board.
   - B. Regular Gypsum Ceiling Board.
   - C. Type "X" Fire Rated Gypsum Board.
   - D. Moisture Resistant Gypsum Board.
   - E. Glass Mat Tile Backer Board.

2. Design Requirements:
   - A. Fire–Resistive Rating: Where indicated on Drawings, provide materials and construction that are identical to those assemblies whose fire resistance rating has been determined per ASTM E 119 by a testing and inspecting organization acceptable to authorities having jurisdiction.
     1. Meet or exceed fire resistance requirements outlined under provisions of the GA–600 Fire Resistance Design Manual for wall and ceiling assemblies.
     2. Meet or exceed Class A flame/fuel/smoke requirements of ASTM E 84 surface burning characteristics for finish materials.
   - B. Regulatory Requirements: Conform to requirements for tested fire rated assemblies of the GA 600, Fire Resistance Design Manual, UL, Fire Resistance Directory, and ICC Evaluation Reports and Standards.
   - C. Performance Criteria: Gypsum Board Products: Conform to general provisions of ASTM C1396. Ends square cut and edges tapered. Gypsum Board at Non–Rated Wall Assemblies: 1/2 inch thick. Gypsum Board at Fire–Resistive Rated Wall Assemblies: 5/8 inch thick, UL labeled, and conforming to ICC ES Report for Type X. Gypsum Board at Non–Rated Ceiling Assemblies: 5/8 inch thick.
   - B. Sound Transmission Characteristics: For gypsum board assemblies with STC ratings, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by a qualified independent testing agency.
   - C. Finishing: All work shall comply with the Gypsum Association, Application and Finishing of Gypsum Board, GA–216–2016.

2. Quality Assurance:
   - A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar materials for 3 years documented.
   - B. Fire–Resistance Labeling: Provide products labeled with third party certification stamp of fire–resistance characteristics, including ITC, UL, and ULC as applicable.

3. Product Delivery, Storage, and Handling:
   - A. Wrap, carton, and crate as required to provide physical and climatic protection during loading, shipping and job site storage and handling.
   - B. Deliver packaged materials to the project site in the manufacturer original, unopened containers which bear intact, legible and visible labels that identify the manufacturer's name and brand name, the contents, grade and type.
   - C. Upon delivery, immediately inspect shipments to assure their compliance with the requirements of the Contract Documents and approved submittals, and that products are complete, undamaged and adequately protected. Immediately report damaged, missing, or defective items. Remove broken, damaged or unlabeled items from the site immediately.
   - D. Store products in accordance with manufacturer's instructions with seals and labels intact, legible, and visible. Store products in a manner to prevent damage, soiling, theft, deterioration and contamination. Marred surfaces, cracked, checked split or warped materials will be rejected. Store materials subject to damage by climatic conditions in weather tight enclosures. Maintain temperature and humidity within the ranges required or recommended by the manufacturer.
   - E. Repair or clean items that have been damaged or soiled that can be restored to an 'as new' condition at no cost to the Owner. The owner's Representative shall be the judge of the effectiveness of remedial measures.

3. Job Site Conditions:
   - A. Environmental Conditions: Apply adhesives and joint finishing compounds only under conditions conducive to a fault–free installation and only when the ambient temperature is above 55 degF. After adhesives and compounds have been installed, provide a circulation of air with exhaust to the exterior, while the adhesives and compounds are drying, including areas above the suspended ceilings.
   - B. Protection: Protect other adjacent in–place finished construction during the execution of this work to prevent damage to such finished construction; repair all damage. Immediately remove adhesive and joint finishing compound droppings from in–place finished construction, so as not to mar or damage such finished construction.
   - C. Sequencing, Scheduling: Cooperate in the sequence of thermal and acoustic insulation installation and setting of mechanical, electrical and other items in or behind gypsum board surfaces. Do not commence work that would conceal items or materials in–place that require inspection until such has been inspected and approved.
   - D. Verification of Work by Others: Examine all surfaces affected by this specification section before starting work. Notify the Owner's Representative, in writing, of any surfaces that are not square, plumb, level and true, or that are not secure and firm. Do not proceed with work on any portions so reported until necessary corrections have been made. Any subsequent claim of the inability to carry out the contract, due to the negligence of other Contractors in the execution of their work or their failure to properly execute their work, shall be held invalid.

4. Products:
   - A. Regular Gypsum Board: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent. 1/2" thick unless otherwise noted within the construction documents.
     - a. Configuration: 48" inches (1219 mm) wide by 144" with tapered edges for horizontal application.
   - B. Regular Gypsum Ceiling Board: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent. 5/8" thick.
     - a. Configuration: 48" inches (1219 mm) wide by 144" with tapered edges.
   - C. Type "X" Fire Rated Gypsum Board: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more Stringent. 5/8" Thick.
     - a. Configuration: 48" inches (1219 mm) wide by 144" with tapered edges for horizontal application.
   - D. Moisture Resistant Gypsum Board: Complying with ASTM C 630. 1/2" unless otherwise noted within the construction doucments.
     - a. Configuration: 48" inches (1219 mm) wide by 144" with tapered edges for horizontal application.
   - E. Glass Mat Tile Backer Board: Glass–Mat, Water–Resistant Backing Board Complying with ASTM C 1178/C 1178M. 1/2" thick. Glass facers on both sides. Water absorption less than 10 percent per ASTM C473.
     - a. Configuration: 48" wide by length required with square edges for horizontal application.
   - F. Joint Treatment: Joint Compound and Joint Tape: Products of a single manufacturer, as manufactured or recommended by the gypsum board manufacturer for the particular type of gypsum board used, and per ASTM C475.
   - G. Adhesive: For laminating gypsum board work, or for adhering to concrete or masonry substrate, provide adhesive or laminating compound as recommended by the gypsum board manufacturer.
   - H. Metal Accessories: Furnish all members per ASTM C1047, of proper depth required for total gypsum board thickness specified.
     1. Casing Beads shall be galvanized steel, minimum No. 26 gage, square angle or channel nose, with perforated wall flange requiring filling compound.
     2. Corner Bead shall be galvanized steel, minimum 26 gage, perforated wing type requiring filling compound.
     3. Control Joints shall be zinc V–type with perforated wings requiring filling compound.
   - I. Fastfeners: Screws shall be ASTM C1002, Type S for 25 gage steel studs and Type S–12 for 20 gage or heavier steel studs, bugle–head screws with self–drilling point, self–tapping thread; not less than 1 inch long for single layer application and not less than 1–5/8 inch long for double layer. Use same length screws as used to achieve fire–resistant ratings, for such work. Use corrosion–resistant treated screws for cement backer board.
   - J. Spray Texture: Where indicated within the construction documents shall be non–aggregated, non–asbestos powder producing a "Knock Down" textures on drywall or other interior surfaces.
   - K. Waterproofing Membrane: Use Laticrete 9235 under tile and up walls in can wash and dishwash area and all areas indicated within the construction document listed as wet areas and as indicated on Floor Finish Plan. Install as per manufacturer recommendations.

SECTION 09250 – GYPSUM DRYWALL (continued)

5. Installation:
   - A. EXAMINATION: Examine areas and substrates, with Installer present, and including welded hollow–metal frames and framing, for compliance with requirements and other conditions affecting performance. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged. Proceed with installation only after unsatisfactory conditions have been corrected.
   - B. APPLYING AND FINISHING PANELS: Comply with ASTM C 840. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back–blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings. Form control and expansion joints with space between edges of adjoining gypsum panels. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area. Fit gypsum panels around ducts, pipes, and conduits. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4– to 3/8–inch– wide joints to install sealant. Isolate perimeter of gypsum board applied to non–load–bearing partitions at structural abutments, except floors. Provide 1/4– to 1/2–inch– wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant. Attachment to At steel Framing attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.
   - C. APPLYING TILE BACKING PANELS: Glass–Mat, Water–Resistant Backing Panel: Comply with manufacturer's written installation instructions and install at locations indicated to receive tile. Install with 1/4–inch gap where panels abut other construction or penetrations. Where tile backing panels abut other types of panels or trim, provide trim surfaces to produce a uniform plane across panel surfaces.
   - D. INSTALLING TRIM ACCESSORIES: In general, for trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions. Install control joints according to ASTM C 840 and in specific locations approved by Architect for visual effect.
   - E. FINISHING GYPSUM BOARD: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces. Prefill open joints and damaged surface areas. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape. Gypsum Board
     1. Finish Levels: Finish panels to levels indicated below:
        - a. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
        - b. Level 4: At panel surfaces that will be exposed to view, unless otherwise indicated. Primer and its application to surfaces are specified in other Division 9 Sections.
        - c. Glass–Mat, Water–Resistant Backing Panels: Finish according to manufacturer's written instructions.
   - F. APPLYING TEXTURE FINISHES: Prepare and apply primer to gypsum panels and other surfaces receiving texture finishes. Apply primer to surfaces that are clean, dry, and smooth. Mix and apply finish using powered spray equipment to produce a uniform texture free of starved spots or other evidence of thin application or of application patterns. Prevent texture finishes from coming into contact with surfaces not indicated to receive texture finish by covering them with masking agents, polyethylene film, or other means. If, despite these precautions, texture finishes contact these surfaces, immediately remove droppings and overspray to prevent damage according to texture–finish manufacturer's written recommendations.
   - G. PROTECTION: Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period. Remove and replace panels that are wet, moisture damaged, and mold damaged. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

SECTION 09300 – TILE

1. The work required by this section consists of, but is not limited to the following:
   - A. ColorBody Porcelain Tile.
   - B. Glazed Porcelain.
   - C. Floor and Wall Tile.
   - D. Wall Tile.

2. Performance Requirements: Static Coefficient of Friction: Tile on walkway surfaces shall meet or exceed the following values as determined by testing in conformance with ASTM C 1028:
   - A. Level Surfaces: Minimum of 0.6 (Wet).
   - B. Step Treads: Minimum of 0.6 (Wet).
   - B. Ramp Surfaces: Minimum of 0.8 (Wet).

3. Quality Assurance:
   - A. Installer Qualifications: Company specializing in performing the work of this section with minimum two years experience.
   - B. Single Source Responsibility: Obtain each type and color of tile from a single source. Obtain each type and color of mortar, adhesive and grout from the same source.
   - C. General: Provide tile that complies with ANSI A137.1 where applicable for types, compositions and other characteristics indicated. Provide tile in the locations and of the types colors and pattern indicated on the Drawings.
     1. Factory Blending: For tile exhibiting color variations within the ranges selected under Submittal of samples, blend tile in the factory and package so tile taken from one package shows the same range of colors as those taken from other packages.
     2. Mounting: For factory mounted tile, provide back or edge mounted tile assemblies as standard with the manufacturer, unless otherwise specified.
     3. Factory Applied Temporary Protective Coatings: Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by precoating with a continuous film of petroleum paraffin wax applied hot. Do not coat unexposed tile surfaces.
   - D. Delivery, Storage, and Handling: Deliver and store products in manufacturer's unopened packaging until ready for installation. Protect setting materials from freezing or overheating in accordance with manufacturer's instructions. Store tile and setting materials on elevated platforms, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

4. Environmental Requirements: Do not install adhesives in an unventilated environment. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during tiling and for a minimum of 7 days after completion.

5. Extra Materials: Provide for Owner's use a minimum of 2 percent of the primary sizes and colors of tile specified, boxed and clearly labeled.

6. Products:
   - A. Manufactures: Ceramic wall tile, floor tile, and base shall be as indicated on the Room Finish Schedule and Tiled Wall Elevations. Design and manufacturers are listed within the finish schedule of the construction documents. Request for substitutes shall be considered. Supporting technical literature, samples drawings and performance data must be submitted to the Owner a minimum of ten (10) days prior to bid in order to make a valid comparison of the product involved.
   - B. Tile Setting Materials: Tile Setting Materials: Comply with ANSI A108/A118/A136.1 as applicable to the installation methods referenced in this Section.
     - B.A. Silicone Sealant: Silicone sealant, moisture and mildew resistant type, white; use for shower floors and shower walls.
     - B.B. Patching and Leveling Compound: As recommended by tile manufacturer and compatible with both substrate and setting materials.

7. Materials:
   - A: Ceramic Tile T–01:
     - Ceramic Technics LTD: Ravenna Stone Surfaces – Color – Charcoal.
     - Size: 12¼x24¼ Rectified
     - Finish: Sand–Blasted
     - Thickness: 10mm
   - B: Ceramic Tile T–02:
     - Ceramic Technics LTD: Ravenna Stone Surfaces – Color – Charcoal.
     - Sizes: 12¼x24¼ Rectified
     - Finish: Natural
     - Thickness: 10mm

SECTION 09300 – TILE (continued)

   - C: Ceramic Tile T–03:
     - Royal Mosa: "More than White" – Color – White 48014 (16 tile set)
     - Sizes: 4¼x24¼, 6"x24", & 8"x24"
     - Finish: Gloss
     - Thickness: 15/32"
   - D: Porcelain Tile T–04:
     - Ceramic Technics LTD: Studio Elements Basic – Warm Gray
     - Sizes: 4"x16"
     - Finish: Gloss
     - Thickness: 10mm

7. Installation: General: Comply with ANSI A108/A118/A136.1 and manufacturer's recommendations. Comply with applicable TCA Handbook for Tile installation requirements as listed below. Determine locations of control and expansion joints before starting tile work. Layout tile work to minimize cuts less than one–half tile in size.

8. Cleaning and Protection: Cleaning: Clean tile within time period recommended by manufacturer, using materials recommended by manufacturer. Prohibit foot and wheeled traffic from floors for a minimum of 3 days. Where traffic is unavoidable, provide large flat boards in walkways and wheelways for a minimum of 7 days after installation. Protect from construction dirt and debris with heavy–duty, non–staining construction paper, masked in place.

SECTION 09510 – ACOUSTICAL CEILINGS

1. The work required by this section consists of, but is not limited to the following:
   - A. Acoustical Lay In Ceiling Panels.

2. Performance Requirements: Surface–Burning Characteristics: Acoustical panels complying with ASTM E 1264 for Class A products specified, when tested per ASTM E 84

3. Quality Assurance:
   - A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.
   - B. Installer Qualifications: Company specializing in performing Work of this section with minimum three years documented experience.

4. Delivery, Storage, and Handling: Delivery: Deliver material in the manufacturer's original, unopened, undamaged containers with identification labels intact. Provide labels indicating brand name, source of procurement, style, size and thickness. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer. Handle materials to avoid damage. Protect system components from excessive moisture in shipment, storage, and handling.

5. Sequencing: Sequence Work to ensure acoustic ceilings are not installed until building is enclosed, sufficient heat is provided, dust–generating activities have terminated, and overhead work is completed, tested, and approved. Install acoustic units after interior wet work is dry. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

6. Project Conditions: Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

7. Extra Materials: Deliver extra acoustical units for Owner's use in maintenance. Label and store where directed by the Owner including codes used on the Drawings. Do not deliver to the Project site until the Owner is prepared to receive and store maintenance materials. Tile: Furnish 5 percent of total acoustic unit area of extra tile to Owner.

8. Products:
   - A. Manufactures: Acoustical ceiling tile shall be as indicated on the Room Finish Schedule of the construction documents. Request for substitutes shall be considered. Supporting technical literature, samples drawings and performance data must be submitted to the Owner a minimum of ten (10) days prior to bid in order to make a valid comparison of the product involved.

8. Installation:
   - A. Examination: Do not begin installation until substrates have been properly prepared. Verify acoustical unit layout conditions, which will adversely affect installation. If layout or substrate preparation is the responsibility of another installer, notify Owner of unsatisfactory preparation before proceeding. Verify wet work such as plastering and concrete is complete and dry. Verify building is enclosed and under standard occupancy conditions prior to start of installation. Commencement of installation constitutes Installer's acceptance of substrate conditions.
   - B. Preparation: Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   - C. Installation: Install in accordance with manufacturer's instructions. Fit acoustic units in place, free from damaged edges or other defects detrimental to appearance and function. Lay directional patterned units to pattern directed by the Architect. Fit border trim neatly against abutting surfaces. Install units after above ceiling work is complete. Install acoustic units level, in uniform plane, and free from twist, warp, and dents. Cut tiles to fit irregular grid and perimeter edge trim. Double cut and field paint exposed edges of units.
   - D. Protection: Protect installed products until completion of project. Clean adjacent surfaces and remove unused materials and debris from site. Clean exposed surfaces in accordance with manufacturer's written instructions. Remove and reinstall improperly installed material. Remove damaged components, replace with undamaged components. Touch–up, repair or replace damaged units until satisfactory results are obtained. Clean with non–solvent based non–abrasive commercial cleaning solution. Touch–up, repair or replace damaged products before Substantial Completion.

SECTION 09540 – FIBERGLASS REINFORCED POLYESTER BOARD (FRP)

1. The work required by this section consists of, but is not limited to the following:
   - A. Fiberglass Reinforced Polyester Board Panels.

2. Performance Requirements: Conform to building code requirements for interior finish for smoke and flame spread requirements as tested in accordance with ASTM E 84 (Method of test for surface burning characteristics of building Materials. Wall Required Rating – Class A.

3. Sanitary Standards: System components and finishes to comply with United States Department of Agriculture (USDA) requirements for food preparation facilities, incidental contact. Food and Drug Administration (FDA) 1999 Food Code 6–101.11.

4. Quality Assurance:
   - A. Installer Qualifications: Company specializing in performing the work of this section with minimum two years experience.
   - B. Single Source Responsibility: Obtain each type and color of panels from a single source.

5. Delivery, Storage and Handling: Deliver materials factory packaged on strong pallets. Store panels and trim lying flat, under cover and protected from the elements. Allow panels to acclimate to room temperature (range of 60 to 75°F) for 48 hours prior to installation.

6. Project Conditions:
   - A. Environmental Limitations: Building are to be fully enclosed prior to installation with sufficient heat (70°) and ventilation consistent with good working conditions for finish work.
   - B. During installation and for not less than 48 hours before, maintain an ambient temperature and relative humidity within limits required by type of adhesive used and recommendation of adhesive manufacturer. Provide ventilation to disperse fumes during application of adhesive as recommended by the adhesive manufacturer.

7. Warranty: All FRP panels shall be guaranteed for one years against failure due to materials and workmanship, including warp, separation, or delamination.

8. Products: Equal to Marlite Standard Class "A" – Color P145 Silver
   - A. Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D 5319.
     1. Coating: Multi–layer print, primer and finish coats or applied over–layer.
     2. Dimensions:
        - a. Thickness – 0.090" (2.29mm) nominal.
        - b. Width – 4'–0" (1.22m) nominal.
        - c. Length – As indicated on the drawings.

SECTION 09540 – FIBERGLASS REINFORCED POLYESTER BOARD (FRP) (continued)

3. Tolerance:
   - a. Length and Width: +/–1/8" (3.175mm)
   - b. Square – Not to exceed 1/8" for 8 foot (2.4m) panels or 5/32" (3.96mm) for 10 foot (2.4m) panels
4. Properties: Resistant to rot, corrosion, staining, denting, peeling, and splintering.
   - a. Flexural Strength – 1.0 x 104 psi per ASTM D 790. (7.0 kilogram–force/square millimeter)
   - b. Flexural Modulus – 3.1 x 105 psi per ASTM D 790. (217.9 kilogram–force/square millimeter)
   - c. Tensile Strength – 7.0 x 103 psi per ASTM D 638. (4.9 kilogram–force/square millimeter)
   - d. Tensile Modulus – 1.6 x 105 psi per ASTM D 638. (112.5 kilogram–force/square millimeter)
   - e. Water Absorption – 0.72% per ASTM D 570.
   - f. Barcol Hardness (scratch resistance) of 35 55 as per ASTM D 2583.
   - g. Izod Impact Strength of 72 ft. lbs./in ASTM D 256
5. Back Surface: Smooth. Imperfections which do not affect functional properties are not cause for rejection.
6. Front Finish: Pebbled.

B. Moldings:
1. PVC Trim: Thin–wall semi–rigid extruded PVC in full length of wall panel.
2. Color: To match wall panels.

C. Accessories:
1. Fasteners: Non–staining nylon drive rivets.
   - a. Match panel colors.
   - b. Length to suit project conditions.

D. Adhesive: Either of the following construction adhesives complying with ASTM C 557.
1. Water–resistant, non–flammable adhesive.
2. Flexible, water–resistant, solvent based adhesive, formulated for fast, easy application.

C. Sealant:
1. Clear Silicone Sealant.

9. Installation: Comply with manufacturer's recommended procedures and installation sequence. Cut sheets to meet supports allowing 1/8", (3 mm) clearance for every 8 foot (2.4m) of panel. Cut and drill with carbide tipped saw blades or drill bits, or cut with shears. Pre–drill fastener holes 1/8? (3mm) oversize with high speed drill bit. Space at 8", (200mm) maximum on center at perimeter, approximately 1" from panel edge. Space at in field in rows 16' (40.64cm) on center, with fasteners spaced at 12 (30.48 cm) maximum on center. Apply panels to board substrate, above base, vertically oriented with seams plumb and pattern aligned with adjoining panels. Install panels with manufacturer's recommended gap for panel field and corner joints. Adhesive trowel and application method to conform to adhesive manufacturer's recommendations. Apply panel moldings to all panel edges using silicone sealant providing for required clearances. All moldings must provide for a minimum 1/8", (3mm) of panel expansion at joints and edges, to insure proper installation. Apply sealant to all moldings, channels and joints between the system and different materials to assure watertight installation.

10. Cleaning: Remove excess sealant from panels and moldings. Wipe panel down using a damp cloth and mild soap solution or cleaner. Refer to manufacturer's specific cleaning recommendations Do not use abrasive cleaners.

SECTION 09680 – CARPET

1. The work required by this section consists of, but is not limited to the following:
   - A. Carpet flooring as shown on the drawings and schedules and as indicated by the requirements of this section.
   - B. Resilient Wall Base.
   - C. Adhesives.
   - D. Accessories.

2. Quality Assurance:
   - A. Manufactures Qualifications: Carpet manufacturer shall have no less than 5 years experience of producing broadloom and tile carpet and shall have published product literature clearly indicating compliance with requirements of this section.
   - B. Installer Qualifications: Company specializing in performing the work of this section with minimum two years experience.
   - C. Single Source Responsibility: Obtain each type and color of carpet from a single source. Obtain each type and color of accessories and adhesives from the same source.
   - D. General: Provide flooring material to meet the following test performance criteria as tested by a recognized independent testing laboratory. Requirements listed below must be met by all products being submitted for approval:
     1. Pill Test / DOC–FF–1–70 (ASTM D–2589) – Requirement: Pass.
     2. Flooring Radiant Panel / ASTM E–648 – Requirement: Class I (Above .45 w/cm).
     3. CRI VOC Chamber Test/Indoor Air Quality test (CRI–IAQ) Green Label Plus Test.
     4. Lightfastness: Rating of not less than 5 on International Grey Scale after 40 SFU's when tested in accordance with AATCC Test Method 16E.
     5. Crockfastness: Minimum stain rating on International Grey Scale of not less than 5 wet or dry when tested in accordance with AATCC Test Method 165.
     6. Atmospheric Fading: Burned Gas shall not be less than 5 on International Grey Scale after two cycles on each test as per AATCC Test Method 129 Ozone and AATCC Test Method 23.

3. Delivery, Storage, and Handling: Deliver and store products in manufacturer's unopened packaging until ready for installation. Protect adhesive materials from freezing or overheating in accordance with manufacturer's instructions. Store tile and setting materials on elevated platforms, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

4. Warranty: Flooring contractor to provide owner a written warranty that guarantees the completed installation to be free from defects in materials and workmanship for a period of no less than two (2) years after job completion. All warranties must be issued by the manufacturer as standard published warranties on all types of carpet within this document. Second source warranties that involve parties other than the carpet manufacturer are unacceptable. If the product fails to perform as warranted when installed according to the manufactures carpet installation handbook and maintained according to the maintenance instructions, the affected area will be repaired or replaced at the expense of the manufacturer. The carpet manufacturer will provide standard published written performance warranties for the following:
   - A. Lifetime warranty against excessive surface wear. Excessive wear means no more than 10% loss of pile fiber weight measured before and after use as tested under ASTM D–3936.
   - B. Lifetime static protection, meaning built–in protection below 3.0 kv as tested under AATCC–134.
   - C. Tuft Bind edge ravel, yarn pulls, zippering.
   - D. Delamination.
   - E. Lifetime Moisture Barrier.
   - F. Lifetime Dimensional Stability.

5. Environmental Requirements:
   - A. Sub–floor preparation is to include all required work to prepare the existing floor for installation of the product as specified in this document. Sub–floor preparation shall meet all conditions as specified in the manufactures installation handbook instructions.
   - B. Sub–floor preparation will include, as required, the removal and repair of the existing floor surface.
   - C. All materials, including adhesives, are to be delivered to the site of installation at a minimum of 48 hours prior to the start of installation and stored in a clean and dry room that measures above 65°F and below 95°F and measures between 10% and 65% relative humidity (RH). To maintain temperature and relative humidity, permanent heating and air conditioning systems (HVAC) must be in operation. Stock rolls horizontally and no higher than two rolls high on a flat surface. After work is completed, the ambient room temperature should remain at 65°F and relative humidity between 10% and 65% for 48 hours. These materials and related adhesives shall be protected from the direct flow of heat from heating fixtures and appliances such as hot–air registers, radiators, or other. Site conditions shall include those specified in the carpet manufacturer' installation manual and shall also include sufficient heat, light, and power required for effective and efficient working condition.
   - D. Once the temperature and relative humidity in area for installation have been stabilized, loose lay the carpet within the installation area and allow it to precondition for 48 hours prior to installation. Carpet installation shall not commence until painting and finishing work is complete and ceiling and overhead work is tested, approved, and completed. Traffic shall be closed during the installation of the flooring products. Verify concrete slabs are dry per the standards for bond and moisture tests listed in the manufacturer's installation manual.
   - E. Do not install adhesives in an unventilated environment.

6. Extra Materials: Provide for Owner's use a minimum of 2 percent of the primary sizes and colors of the carpet tile specified, boxed and clearly labeled.

7. Products General:
   - A. Manufactures: Broadloom carpet, carpet tile, and resilient base shall be as indicated on the Room Finish Schedule and Finish Plans. Design and manufacturers are listed within the finish schedule of the construction documents. Request for substitutes shall be considered. Supporting technical literature, samples drawings and performance data must be submitted to the Owner a minimum of ten (10) days prior to bid in order to make a valid comparison of the product involved.

SECTION 09680 – CARPET (continued)

8. Materials:

A. Carpet – Type C–01: Not Used

B. Carpet Tile – Type C–02:
1. Product: Custom Carpet #984–488484–002–05 as manufactured by J & J Flooring Group.
2. Custom carpet provided by "Coastal Equipment Manufacture" Contact: Tim Baucom 919–412–2180 timbaucom@jjflooringgroup.com
3. Carpet provided by "Coastal Equipment Manufacture" but installed by the General Contractor.

C. Carpet Tile – C–03:
1. Product: Walk–off Modular Needle Punched Successions II 54695 as manufactured by Shaw.
2. Color: Selected from manufactures full color range.
3. Construction: Needle Punched.
4. Backing: Synthetic ExoWorx Tile.
5. Dye Method: Solution Dyed.
6. Fiber Type: Hi VU Polypropylene.
7. Face Weight: 43 oz./sy.
8. Pile Density: N/A.
9. Gauge: N/A.
10. Stitches: N/A.
11. Pattern Repeat: N/A.
12. Soil Release: Yes.
13. Stain Resistance: Yes.
14. Bleach Resistance: Yes.
15. Optional Treatments: Yes.
16. Standard Size: 24" x 24" (approx. (60.96cm x 60.96 cm).
17. Warranties: Lifetime Fiber Performance for Wear, Lifetime for Tuft Bind Strength (edge ravel, yarn pulls, zippering), Lifetime Protection from Delamination Failure, Lifetime Fiber Performance for Static, Lifetime Colorfastness to Atmospheric Contaminants, Lifetime Stain Removal

D. Resilient Wall Base:
1. Product: Johnsonite Millwork Equinox Profile.
   - a. Straight.
   - b. Color: 32 – "Pebble".
   - c. Height: 4 1/2"
   - d. Length: 8' for all 3/8" thick wall base
   - e. Thickness: 3/8".

E. Adhesives: A high strength latex–based carpet adhesive designed for all commercial carpet backing with the exception of vinyl backed carpet, PVC, tile or sheet vinyl.

F. Accessories: Provide transition/reducing strips tapered to meet abutting materials as indicated in the drawings.

9. Installation General: Install flooring in strict accordance with the finish drawings, manufacturer's instructions, and CRI Carpet Installation Standard. Install carpet tile in accordance with manufacturer's instructions and CRI 104.

10. Installation Carpet Tile:
A. Long requires a full spread adhesive system for installation of Modular carpet tile. Fully spread a Premium Modular Pressure Sensitive Adhesive using a 1/32 x 1/16 x 1/16 ?U? or ?V? notch trowel or spread using a 3/8? foam paint roller. Keep the roller saturated and wet with adhesive throughout the installation in order to maintain a constant spread rate. Allow to completely dry so adhesive does not transfer when touched. The spread rate for Commercialon Premium Modular Adhesive is approximately 140 sq. yds. per four gallon bucket. Modular Spray Adhesive is available in a 14 lbs cylinder and coverage is approx. 165 sq yds. Note: Inadequate amounts of adhesive can cause modules to shift and move and will not be covered under warranty.
B. Tile Placement: Arrows are embossed or printed on the module backing to show pile direction. To ensure proper alignment, check spacing every ten modules. Measure ten modules; proper spacing should be within ¼ inch. Continue to check spacing every ten modules throughout the entire installation.
C. Palet and Bundle Sequencing – It is very important to install modules in the order they were manufactured; this is easily accomplished by selecting pallets in sequential order and following the numbers located on each bundle. Typically, an installation will begin with the lowest bundle numbers and progress through the highest numbers until the project is complete. Installing modules by bundle sequence will assure the most even uniform look possible.

11. Cleaning and Protection: Remove excess adhesive without damage, from floor, base, and wall surfaces. Clean and vacuum carpet surfaces. Carpet modules with loop pile constructions may experience yarn blossoming at the edges, which is consistent with this type of construction. Clipping or shearing the yarn edges can remedy this condition.

SECTION 09705 – SILIKAL FLOORING

1. Work Included:
   - A. Work described in this section includes surface preparation and installation of Silikal reactive industrial floor system.
   - B. See drawings for locations and quantities.

2. System Description:
   - A. 3/16" – 1/4" thick troweled surfacing composite of 100% reactive binder resin and colored quartz aggregate with specified primer and topcoat.
   - B. All resins must be manufactured and tested under ISO 9001 registered quality system and ISO 14001 ecology management system.

3. Quality Assurance:
   - A. Applicator Qualifications:
     1. Only approved applicators, licensed by manufacturer shall be considered for qualification. In no case will permit the application by untrained, non–approved Contractor sub–contractor or their personnel.
   - B. Acceptance Sample
     1. Representative sample of the specified flooring system shall before submitting their bids.
     2. The installed flooring system shall be similar to the acceptance sample in thickness of respective film layers, color, texture, overall appearance and finish.

4. Reference Standards: United State Department of Agriculture (USDA) and foodstuffs.

5. Submittals:
   - A. Acceptance Sample: As required by owner, one foot square (1 ft. by 1 ft.) sample of the specified acrylic flooring system applied to hardboard or similar backing for rigidity and ease of handling.
   - B. Manufacturer's Literature: Descriptive data and specific recommended for surface preparation, mixing, and application of materials.
   - C. Manufacturer's Material Safety Data Sheets (MSDS) for each respective product to be used.
   - D. Cleaning and Maintenance instructions.

6. Delivery, Storage, And Handling:
   - A. All material shall be delivered in original Manufacturer's sealed containers with all pertinent labels intact and legible.
   - B. Store materials in dry protected area between 25 degrees and 80 degrees Fahrenheit. Keep out of direct sunlight. Protect from open flame; keep all containers grounded.
   - C. Follow all Manufacturer's specific label instructions and prudent safety practices for storage and handling.

7. Project/Site Conditions:
   - A. Materials, air, and surface temperatures shall be in the range of 32 degrees to 85 degrees Fahrenheit during application and cure, unless a special formulation is being used and manufacturer has been consulted.
   - B. Relative humidity in the specific location of the application shall least 5 degrees above the dew point.
   - C. Conditions required of new concrete to be coated.
     1. Concrete shall be moisture cured for a minimum of 7 days at a minimum of 28 days prior to application of the coating system pending moisture testing.
     2. Surface contaminants such as curing agents, membranes, or other bond breakers should not be used.
     3. Concrete shall have a "rubbed" finish; float or darby finish the concrete (a hard steel trowel is neither necessary nor desirable) to the finished grade of the topping.
   - D. Concrete shall have a moisture emission rate of no more than 5lbs. per 1000 sp. ft. per 24 hour period as determined by proper Calcium Chloride Testing. Concrete R/H must be 85% by (Food and Drug Administration (FDA) authorization) for incidental contact with protimeter. Readings greater than 5 by the Calcium Chloride method or 85% by protimeter, may required a preliminary treatment with Silikal RE40.
   - E. Vapor Barriers and/or suitable means shall have been installed beneath grade slabs to prevent vapor transmission. Consult technical dept.

LMHT Project No. 22160.00

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SECTION 09705 – SILIKAL FLOORING (continued)

8. Warranty: Manufacturer warrants that materials shipped to buyers are at the time of shipment substantially free from material defects and will perform substantially according to published literature if used strictly in accordance with prescribed procedures and prior to expiration date.

9. Materials:
A. Silikal 61 CD Decorative Quartz Flooring
1. Moisture Vapor Treatment (if required) Silikal RE40
2. Saturating Primer/Silikal Coat: Silikal R41 with Additive I
3. Patching/Sloping (if required) Silikal R17 Polymer Concrete
4. Coving (if required) Silikal HK20 with Silikal filler CQ
5. Topping: Silikal R61 Quartz, consisting of Silikal R61 resin and Silikal Filler
6. Topcoat(s): Silikal R81 Colorless Silikal Topcoat Resin.
7. Silikal CQ for broadcasting: Color Quartz Blend #4.
8. Aluminium Oxide (if required)

10. Prepwork inspection: Examine all surfaces to be coated with flooring material systems and report to the Owner and/or Engineer any conditions that will adversely affect the appearance or performance of these coating systems and that cannot be put into acceptable condition by the preparatory work. Do not proceed with application until the surface is acceptable or authorization to proceed is given by the Manufacturer's representative.

11. Surface Preparation: Concrete substrate must be clean and dry. Dislodge dirt, mortar spatter, paint overspread, and other dry surface accumulations and contamination by scraping, brushing, sweeping, vacuuming, and/or compressed air blowndown, to the acceptance of manufacturer.

12. Installation:
A. Application of Silikal 61 CQ flooring system consists of:
1. applying moisture vapor treatment (if required)
2. applying the primer,
3. applying coving (if required)
4. performing patching and sloping with polymer concrete (if required),
5. re-priming polymer concrete areas
6. applying the topping, broadcasting the quartz
7. applying the topcoat(s) Time for curing (45–60 minutes) shall be allowed each coat.
B. Installation shall be by manufacturers written requirements and procedures.

13. Cleaning: Applicator shall remove any material spatters and other material that is not where it should be. Remove masking and covers taking care not to contaminate surrounding area. Applicator shall repair any damage that should arise from either the application or clean-up effort.

SECTION 09720 – WALL COVERINGS

1. Section Includes: The work of this section shall include all labor, material, equipment accessories and services required and necessary to furnish and install all wallcovering and related items as indicated or specified.

2. Quality Assurance:

A. Basis–of–Design Manufacturer: All wall coverings are a custom pattern. This material is to be supplied by Coastal Equipment Co. and installed by the General Contractor.

B. Manufacture Qualifications: Approved manufacturer listed in this section, with minimum 10 years experience in the manufacture of vinyl wall coverings compartments.

C. Installers Qualifications: Experienced Installer regularly engaged in installation of vinyl wall covering for minimum 3 years.

3. Delivery, Storage, and Handling: Do not deliver wall covering to site until building is enclosed and HVAC systems are in operation. Deliver toilet compartments in manufacturer's original packaging. Store in an upright condition.

4. Warranty: Provide manufacturer's standard form in which manufacturer agrees to repair or replace products that fail in materials or workmanship during the following period after substantial completion:

A. Provide a manufactures standard two year warranty against faulty materials or workmanship, or both, and against failure of wall covering, except where such failure is due to abuse or failure of related work installed by other parties. During the warranty period, restore defective work to the standard of the Contract Documents, including all materials, labor, refinishing and other costs incidental to the work.

5. Products:

A. Vinyl Wall Covering.
1. Wall covering color, type and finish shall be as specified herein and indicated within the construction documents. Vinyl wallcovering shall be pigmented vinyl plastic and plasticizers fused or laminated to a dimensionally stable and mildew resistant woven poly/cotton backing, 48 inches to 54 inches in width.

B. Adhesives.
1. Adhesive shall be fire retardant type containing an antimicrobial product to inhibit the growth of deleterious and/or odor causing organisms. Use only adhesives acceptable to fabric manufacturer.

8. Installation:

A. General: Examine surfaces to receive materials of this section. Defects which may influence satisfactory completion and performance of this work shall be corrected in accordance with the requirements of the applicable section of work prior to commencement of the work. Commencement will be construed as work in place being acceptable for satisfying the requirements of this section. Protect the work and adjacent work against damage during progress of work. If further construction work adjacent to the finished wallcovering is necessary, protect wallcovering with suitable materials as recommended by the Wallcovering Manufacturer.

B. Surface Preparation: Surfaces to received wall covering shall meet the minimum requirements of the Wall covering Manufacturer and shall be clean, dry, thoroughly cured and free from materials detrimental to the required bond or materials which will bleed through the wall covering. Prime or size plaster surfaces as recommended by the Wall covering Manufacturer. Neutralize hot areas in plaster. Prime gypsum wallboard with one coat of vinyl sealer. Previously painted surfaces shall be in sound condition and shall not contain water–sensitive materials or pigments that bleed in water or oils. Test painted surfaces and treat as recommended by the Wall covering Manufacturer. Work shall not be started until work of other trades that passes through wall covering has been completed. Remove hardware, plates and other accessories to allow installation and replace upon completion of the work.

1. The entire exposed wall surface shall receive wall covering, unless noted otherwise. This includes but is not limited to reveals, terminations and recesses. Wall covering shall be tucked into a framing member when possible. The top of partial height walls shall be fully covered unless noted otherwise. Wall covering shall be underneath all hardware plates and accessories. Trim wall covering material within three inches of the floor.

2. Mix and apply adhesive in accordance with adhesive manufacturer's instructions.

3. Handle and apply fabric wall covering in accordance with manufacturer's instructions and the following:
a. Use fabric panels in exact order as they are cut from rolls. use rolls in consecutive order. Fill in spaces above and below windows, above doors and similar areas in sequence from the roll.
b. Trim deeply textured patterns or patterns on which strips must be matched, on a work table, using a metal straight edge and sharp razor blade.

4. The installed wall covering shall be secure, smooth, clean and without wrinkles, gaps or overlaps. Vertical seams shall be plumb and at least six inches away from any corner. Horizontal seams will not be accepted. Tuck wall covering into flanges of hollow metal frame if possible. If not possible cut wall covering tight against flanges of frame.

9. Final Cleaning: Remove packaging and construction debris and legally dispose of off–site. Clean exposed surfaces with materials and cleansers in accordance with manufacturer's recommendations.

SECTION 09990 – PAINTING

1. The work required by this section consists of, but is not limited to the following:

A. All labor, materials, tools and other equipment, services and supervision required to complete all exterior and interior painting and decorating work as indicated on Finish Schedules and to the full extent of the drawings and specifications.

2. Quality Assurance:

A. Installer Qualifications: Engage an experienced Installer who has completed painting similar in material, design, and extent to that indicated for this project and with a record of successful in–service performance and specializing in performing the work of this section with minimum two years experience.

B. Manufacture: All materials shall be those of current manufacture and shall meet all applicable regulations for the application and intended service. All coats of any particular coating system shall be approved by the manufacturer for the intended service. In the event that a product specified herein is no longer manufactured or does not meet current regulations, the Contractor shall provide a substitute, currently new and manufactured product of at least equal performance which meets all applicable regulations, subject to the Owners approval, at no additional cost. All materials shall be delivered to the Project Site in their original, unopened containers

C. Single Source Responsibility: Obtain each type and color of products from a single source.

3. Delivery, Storage and Handling: Deliver materials to job in original packages and containers bearing name of manufacturer; containers shall be new and unopened and shall clearly show manufacturer's best–grade certification on each container; store appropriately and provide fire protection. B. When materials are not in use, store in hermetically covered containers. Maintain containers used in storage, mixing and application of paint in a clean condition, free from deleterious materials and residue.

4. Project Conditions: Environmental Limitations:
A. Exterior Painting: Environmental conditions specified herein are minimum parameters. Comply with manufacturer's requirements. Do not apply solvent–thinned paints when the temperature of surfaces to be painted and the surrounding air temperatures are below 50 degrees F and rising unless otherwise permitted by the manufacturer's published instructions. Do not apply paint when the relative humidity exceeds 85 percent; or to damp or wet surfaces, unless otherwise permitted by the manufacturer's published instructions. Do not apply paint when dust is blowing.
B. Interior Painting: Building are to be fully enclosed prior to installation with sufficient heat (70°) and ventilation consistent with good working conditions for finish work. During installation and for not less than 48 hours before, maintain an ambient temperature and relative humidity within limits required by type of products to be used and follow recommendation of the manufacturer. Provide ventilation to disperse fumes during application as recommended by the product manufacturer.

7. Warranty: All coatings and paint shall be guaranteed for one years against failure due to materials and workmanship.

8. Products: All materials used under painting contract shall be by "Benjamin Moore" andshall be delivered to the job site in the original sealed containers. Equal products by "Glidden Paints," "Pittsburg Paints," and "Sherwin Williams" are acceptable substitutes, provided specified colors are matched. Specific color requirements are listed within this specification, on the Door Schedule and Room finish Schedule.

1. Application:

A. Before any work is done, the Contractor will prepare color and texture samples on the job for the Owner's or Franchisee's approval.

B. No exterior paint shall be applied in temperature below 50° F. and all surfaces shall be thoroughly dry prior to application.

C. All metal surfaces shall be solvent cleaned to remove grease and oil and shall have all loose rust and scale removed before painting. New galvanized iron surfaces shall be further cleaned with a strong detergent such as Trisodium Phosphate.

D. Paint one coat on the top and bottom edges of all doors, both metal and wood after doors have been fitted.

E. Items shall be given the number of coats hereinafter specified in addition to any shop coats specified elsewhere.

F. Varnishes and enamels shall be lightly sanded and then dusted before succeeding coat is applied.

G. No interior painting or finishing shall be permitted until the General Contractor so authorizes. Follow the manufacturer's printed recommendations for drying time before succeeding coats may beapplied.

H. All gypsum drywall surfaces shall be primed with Pro Mar 200 white pigmented latex wall primer prior to receiving it's finish, whether wall is to be painted or receive vinyl wall covering.

J. After interior prime coats have been applied, all remaining necessary puttying or spackling of nail holes, cracks, and blemishes shall be completed and reprimed.

3. Paint Schedule – (For all colors see finish schedules on A3, A7, A8, ID–1)

1.1 INTERIOR PAINT SYSTEMS

A. METAL: (Exposed Gas Piping in Kitchen & on Roof, Metal Doors & Frames, Downspouts, Misc. Metals):
1. Alkyd Systems (Water based):
a. Semi–Gloss Finish:
1) 1st Coat: S–W Pro Industrial Pro–Cryl Universal Primer, B66–1310 Series.
2) 2nd Coat: S–W Pro Industrial Waterbased Alkyd Urethane Semi–Gloss, B53–1150 Series.
3) 3rd Coat: S–W Pro Industrial Waterbased Alkyd Urethane Semi–Gloss, B53–1150 Series.

B. WOOD – (Stained Low Wall Caps, Stained Wood Doors, Trim):
1. Stain and Varnish System:
a. Satin Finish:
1) Pre–Stain Conditioner: S–W Minwax Pre–Stain Wood Conditioner
2) Stain Coat: S–W Minwax Performance Oil–Based Penetrating Stain
3) Cleat Coats (2): S–W Minwax Waterbased Oil–Modified Polyurethane Satin

C. DRYWALL – (Walls)
1. Latex Systems:
a. Egg–Shel / Satin Finish:
1) 1st Coat: S–W ProMar 200 Zero VOC Interior Latex Primer, B28W2600 .
2) 2nd Coat: S–W ProMar 200 Zero VOC Latex Eg–Shel, B20–2600 Series.
3) 3rd Coat: S–W ProMar 200 Zero VOC Latex Eg–Shel, B20–2600 Series.

1.2 EXTERIOR PAINT SYSTEMS

A. METAL: (Hollow Metal Doors/Frames, Painted Downspouts, Gutters, Metal Flashings):
1. Latex Systems:
a. Semi–Gloss Finish:
1) 1st Coat: S–W Pro Industrial Pro–Cryl Universal Primer, B66–1310 Series.
2) 2nd Coat: S–W Pro Industrial Waterbased Alkyd Urethane Semi–Gloss, B53–1150 Series.
3) 3rd Coat: S–W Pro Industrial Waterbased Alkyd Urethane Semi–Gloss, B53–1150 Series.

B. WOOD, CEMENTEOUS BOARDS:
1. Latex Systems:
a. Gloss Finish (Exterior Lap Siding, Vertical Siding Panels, Factory Finished Hardie Plank or Trim):
1) Top Coat: S–W A–100 Exterior Latex Gloss, A8 Series.
b. Gloss Finish (Exterior Lap Siding, Vertical Siding Panels, Pre–primed Nichiha Plank or Wood Trim):
1) 2nd Coat: S–W A–100 Exterior Latex Gloss, A8 Series.
2) Top 3rd Coat: S–W A–100 Exterior Latex Gloss, A8 Series.

DIVISION 10 – SPECIALTIES

SECTION 10155 – TOILET ACCESSORIES

1. Miscellaneous hardware, soap dispensers, paper towel dispensers, and toilet tissue dispensers, shall be coordinated with the Owner or Franchisee at each location. These items are furnished by the product supplier, and installed by the General Contractor.

2. Baby changing station to be furnished by the Furnishings and Equipment Contractor and installed by the General Contractor.

3. Other items on Toilet Accessories Schedule on Dwg. A22 shall be provided and installed by General Contractor.

4. See corporate vendor list, Sht. SP7 for contact & address.

SECTION 10211 – TOILET PARTITIONS

1. Section Includes:

A. High Pressure Laminate with Particle Board Substrate.
a. Toilet enclosures.
b. Urinal screens.

2. Quality Assurance:

A. Basis–of–Design Manufacturer: Subject to compliance with requirements, provide products of Marlite; 202 Harger Street, Dover, OH 44622. ASD. Tel: (330) 343–6621. Fax: (330) 343–7296. Email: info@marlite.com www.marlite.com

B. Manufacture Qualifications: Approved manufacturer listed in this section, with minimum 10 years experience in the manufacture of toilet compartments.

C. Installers Qualifications: Experienced Installer regularly engaged in installation of toilet compartments for minimum 3 years.

D. Source Limitations: Obtain toilet compartment components and accessories from single manufacturer.

E. Accessibility Requirements: Comply with requirements of ICC/ANSI 117.1, and with requirements of authorities having jurisdiction.

3. Delivery, Storage, and Handling: Do not deliver toilet compartments to site until building is enclosed and HVAC systems are in operation. Deliver toilet compartments in manufacturer's original packaging. Store in an upright condition.

4. Warranty: Provide manufacturer's standard form in which manufacturer agrees to repair or replace products that fail in materials or workmanship during the following period after substantial completion:

A. Plastic Laminate Toilet Partitions: Manufactures standard 2 year warranty for materials and workmanship.

B. Chrome Hardware: 5 years.

C. Stainless Steel Hardware: Lifetime.

5. Products:

A. Overhead braced.
1. Basis of Design Product: Marlite high pressure laminate.

B. High Pressure Laminate Toilet Partitions, Urinal Screens, Pilasters, and Doors:
1. Standard Height:
a. Cores: MDF core.
b. Surfaces: High–pressure laminated plastic NEMA LDS–1985 minimum thickness 0.050 inch (1.33 mm) with matte finish.
c. Fabrication: Bonded high–pressure plastic laminate to core material with adhesive specially formulated to prevent delamination. Edges bonded prior to bonding face sheets. Splices or joints in faces or edges are not acceptable except in the case of laminate material limitations.
d. Door Panel Height 58 inches.
e. Floor Clearance 12 inches.
f. Thickness: 1 inch.
2. Mounting Configuration:
a. Floor Mounted, overhead braced with satin finish, extruded anodized aluminum headrails, 0.065 inch thick with anti grip profile.
b. Style Height: 85 inches.
c. Thickness: 1 inch.

C. Headrail: Extruded anodized aluminum headrail with anti–grip profile. Provide fasteners for attachment to pilaster and stainless steel brackets to secure to wall.

D. Shoes: 4 inches (102 mm) high minimum, Type 304 stainless steel with No. 4 satin brushed finish. Secured to the floor with tamper–resistant screws.

I. Brackets (Fittings):

a. Stirrup Type: Ear or U–brackets; stainless steel.

6. Hardware, Standard Duty: Manufacturer's standard chrome–plated zamac castings, including corrosion–resistant, tamper–resistant fasteners:

A. Hinges: Self–closing wrap–around gravity–type adjustable to hold doors open at any angle up to 90 degrees, with emergency access by lifting door.

B. Latch and Keeper: Concealed slide latch with flat rubber–faced combination door strike and keeper, with provision for emergency access, meeting requirements for accessibility at accessible compartments.

C. Coat Hook: Combination hook and rubber–tipped stop, sized to prevent door from hitting compartment–mounted accessories. Provide wall bumper where door abuts wall. Provide formed L–shaped hook without stop at outswing doors.

D. Door Pull: Standard unit on outside of inswing doors. Provide pulls on both sides of outswing doors.

8. Installation:

A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.

B. Stirrup Brackets: Secure panels to walls and to pilasters with no fewer than three brackets attached at midpoint and near top and bottom of panel. Locate wall brackets so holes for wall anchors occur in masonry or tile joints. Align brackets at pilasters with brackets at walls.

9. Adjusting: Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on in–swinging doors to hold doors open approximately 15 degrees from closed position when unlatched. Set hinges on out–swinging doors to return doors to fully closed position.

10. Final Cleaning: Remove packaging and construction debris and legally dispose of off–site. Clean partition and screen surfaces with materials and cleansers in accordance with manufacturer's recommendations.

SECTION 10730 – PROTECTIVE COVERS

1. Section includes complete pre–engineered building supported aluminum protective cover systems, including internal drainage system, fastening, and anchorage components of configuration indicated on Drawings.

2. Quality Assurance:

A. Manufacturer's Qualifications: Manufacturer regularly engaged, for preceding 10 years, in manufacture of natural thin veneer stone of similar type to that specified.

B. Structural Performance: Provide protective covers designed to withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.

C. Delivery, Storage, and Handling: Deliver and store products in manufacturer's unopened packaging until ready for installation. Store materials on pallets, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

3. Warranty: Manufacturer's standard form in which manufacturer agrees to repair finish or replace protective cover components that show evidence of deterioration of factory–applied finishes within five years from date of Substantial Completion.

4. Products:

A. Subject to compliance with requirements, provide products manufactured by Superior Metal Products LLC, www.superiormetalproducts.com.

1. Decking: Extruded Aluminum: Flush.
2. Fascia/Gutter: Extruded Aluminum.
3. Beams: Extruded Aluminum. Provide sizes recommended by Delegated Design Engineer.
4. Drain Beams: Extruded Aluminum: Provide sizes recommended by Delegated Design Engineer.
5. Fasteners and Anchorage Components: Recommended and provided by protective cover manufacturer as required by delegated design.
6. Steel Awning Material: Galvanized sheet steel, 24 ga. min.with galva grip finish. To be factory painted to color indicated upon the building elevations and finish schedule.
7. Fabric Awning Material: 100% solution dyed acrylic, UV resistant, mildew resistant, breathable to prevent condensation, fade resistant, and stain resistant.
a. Fabric as manufactured by Sunbrella
b. Color: "Logo Red"

SECTION 10730 – PROTECTIVE COVERS (continued)

B. Factory Applied Finishes:
1. Aluminum and Steel Components: Baked enamel, see finish schedule.
2. Decking: Baked enamel, bronze
3. Protective covers Components Fascia/Gutters and Beams: Baked enamel, bronze

5. Surface Preparation: Prepare surfaces in accordance with manufacturer's instructions. Clean surfaces thoroughly before installation. Prepare surfaces using methods for achieving best results for substrate under project conditions.

6. Installation: Install protective covers following shop drawings and to manufacturer's written instructions. Accurately located, aligned, level plumb, and at correct elevations with tight and clean connections. Provide components placed for proper drainage according to shop drawings.

7. Cleaning and Repair: Clean and repair dirty and damaged surfaces. Replace components that are damaged beyond repair.

DIVISION 11 – EQUIPMENT

SECTION 11172 – WASTE COMPACTORS

1. Waste compactor shall be furnished by the Owner or Franchisee, installation and final connection by supplier. Refer to Site Plan for location and Electrical Plan for disconnect location.

2. Compactor shall have a remote power pack complete with weather cover. Motor is ten (10 horsepower, 3 phase, 208/230 volts, NSWM Rating to be 1.15 cubic yards. Controls shall be a three (3) push button control with deadman and key lock start button.

Capacity: GC 10B = 20 cubic yards
GC 11M = 17 cubic yards
GC 11S = 17 cubic yards

3. General Contractor to coordinate with compactor supplier and grading/civil plans at compactor area to insure that waste chute between building & compactor has at least the minimum slope recommended by compactor manufacturer.

DIVISIONS 12, 13, 14 (NOT USED)

DIVISION 15 – MECHANICAL

SECTION 15400 – PLUMBING

1. Work shall be performed by mechanics skilled in their respective trades and shall present appearance typical of best trade practice. Work not installed in this manner shall be repaired or replaced. Work shall be in accordance with all state and locally enforced plumbing codes.

2. Cost for all excavation fees, permits, tests, and inspections shall be paid by the Plumbing Contractor. Furnish three (3) copies of inspection certificate before requesting final payment.

3. Exterior utilities shall have a minimum earth cover of 36 inches unless indicated otherwise. Grade for soil and waste lines shall be 1/4 inch per foot (min.) for sizes 2 inches and smaller and 1/8 inch per foot (min.) for sizes 3 inches and larger.

4. All equipment and materials shall be installed in accordance with manufacturer's recommendations.

5. Contractor shall furnish and install any auxiliary lines, or accessories necessary for the proper functioning of the equipment and systems,whether or not specified or indicated on the plans.

6. Contractor shall provide in walls behind fixtures, adequate wood blocking for fixture hanger plates. Plates shall be secured to blocking as per manufacturer's instructions.

7. The entire plumbing system shall be tested under normal operating temperatures and 150% of normal operating pressures and the contractor shall demonstrate that all parts shall function properly. Leave all exposed piping, fixtures, fittings, etc., in a clean and like new condition.

8. All underground thermoplastic pipe shall be installed per ASTM–D2321.

9. Soil, Waste and Vent Piping

A. PVC: Unless otherwise specified on the drawings Soil waste andvent piping in earth shall be Sch. 40 PVC plastic pipe and fittings conforming to ASTM–D2665, ASTM–D2949.

B. Cast iron: All pipe and fittings shall contain the collective trademark of CISPI.

Hubless pipe: Gray cast iron and shall conform to current version of CISPI 310 and listed by NSF.

Hub and Spigot pipe: Gray cast iron and shall conform to ASTM A 74 and be NSF listed, service weight (SV).

C. Couplings:
Hubless Mechanical joint couplings for hubless pipe shall comply with CISPI 310, ASTM C 1277. The elastomeric sealing sleeve shall conform to ASTM C 564 or CSA B 602 and shall be provided with a center stop. Mechanical joint couplings shall be installed in accordance with the manufacturer's installation instructions. Heavy duty couplings shall conform to ASTM C 1540.

Caste iron hub and spigot compression joint: Gaskets for hub and spigot pipe and fittings shall confrom to ASTM C 564 and shall be tested to ASTM C 1563. Gaskets shall be compressed when the pipe is fully inserted.

Cast iron hub and spigot caulked joint: Pipe shall be firmly packed with oakum or hemp. Molten lead shall be poured in one operation to a depth of not less than 1 inch. The lead shall not recede more than 1/8 inch below the rim of the hub and shall be caulked tight.

D. Provide cleanouts as indicated and required by codes.

E. Test all soil, waste, and vent piping to meet all code requirements. Test shall prove the complete absence of leaks with not less than 10 feet head of water. Water shall be maintained in the system for 15 minutes before inspection starts. Prior to fixtures being set, a water test with a water column extended through the roof of the building.

10. Hot and Cold Water Piping

A. Crosslinked polyethylene (PEX) tubing and ASTM–F1960 cold expansion fittings:

Standard grade hydrostatic pressure ratings from Plastics Pipe Institue (PPI) in accordance with TR–3 as listed to TR–4. Certification of flame spread/smoke development rating of 25/50 in accordance with ASTM–E84

Installer Qualifications: Use an installer with demonstrated experience on projects of similar size and complexity and possessing documentation proving successful completion of PEX plumbing installation training by manufacturer.

Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions of manufacturer.

Warranty: 25 years when installed by a manufacturer trained contractor and certified plumbing professional.

B. Type "L" hard drawn copper tubing assembled with wrought sweat fittings. Joints in copper tubing shall be made with silver solder similar or equal to Sil–Phos.

C. Hot and cold water piping in building – CPVC schedule 40, per applicable state plumbing code. Material specifications for piping and fittings shall conform to applicable state plumbing code.

D. Subject hot and cold water piping to hydrostatic test of 150 pounds for a period of twenty–four (24) hours. Hot and cold water piping shall be thoroughly flushed with water and then filled with a chlorine solution of 50 parts per million and let stand for eight (8) hours. The chlorine solution shall be drained and piping flushed with clean water prior to operation. A residual chlorine level of 1 part per million shall be retained.

SECTION 15400 – PLUMBING (continued)

11. Gas Piping

A. The contractor shall arrange with the Local Gas Company to make connection to the gas main, to extend the service pipe to the meter, and provide meter, valves, etc. as required by local gas company. Contractor shall obtain and pay for service and meter. Gas service shall be of sufficient size to provide the flow of gas per hour as indicated on the drawings.

B. Gas piping above floor inside building or on roof shall be standard weight Schedule 40 black iron threaded pipe assembled with 150 pound ASA malleable iron fittings. Make all threaded joints using joint compound on male

C. Gas piping below grade outside building shall be coated with a fusion bonded epoxy at a thickness not less than 12 mils using electrostatic deposition and shall be Scotchkote. Field joints shall be covered with not less than 10 mils of the same material provided by Manufacturer.

D. Provide a lever handle gas cock, dirt leg, and union at point of connection to each piece of gas equipment.

E. All gas piping shall be tested by applying an air pressure of 100 pounds per square inch (psi) for a period of not less than two (2) hours and checking all joints with a solution of soap and water. Test shall prove the complete absence of leaks.

12. Drain piping and fittings above the roof may be galvanized steel pipe, DWV copper drain pipe or PVC plastic pipe. Drain piping above suspended ceilings to floor drain shall be PVC plastic pipe. PVC plastic pipe shall have solvent cement socket type fittings and pipe conforming to ASTM–D1785, Schedule 40, and D2466 or D2665. Maximum distance between pipe supports for PVC piping shall be 4'–0".

13. Fixtures:

A. All plumbing fixtures shall be as listed on the plans.

B. All exposed fittings, supplies, traps, etc., shall be chrome plated.

C. The connection of fixture traps from lavatories to waste pipe shall be made with PVC plastic, or DWV copper pipe.

14. Valves

A. Water valves shall be Hammond, Cast Bronze, 667 OR 668, flow port.

B. Gas valves shall be Walworth 554, 1796, 1797F or 1798F.

15. Hangers shall be split ring type secured to building construction with rods. Install hangers on outside of insulation with sheet metal saddle between hanger and insulation.

16. Provide chrome plated plates around all exposed bare and insulated piping passing through floors, walls or ceilings.

17. Flash vents through roof with 4 pound sheet lead extending 12 inches around pipe. Extend flashing to top of pipe and turn down inside at least 1 inch.

18. Pipe Insulation

A. All hot and cold water piping in walls, above ceilings, and exposed shall be insulated with an insulation having a maximum K factor of 0.28 @ 75°F mean temperature for 2" wall, flexible elastomeric thermal type, closed cell insulation similar to AP Armaflex Tube Insulation (Armacell). Longitudinal seams shall be sealed. Lateral seams (butt joints) shall be sealed on cold water pipes only. Thickness shall be 1/2" for cold water pipes up to 1 1/4" dia. and 1" for cold water pipes 1 1/2" dia. and greater. Thickness shall be 1" min. for all hot water pipes.

B. Insulate fittings continuous, but do not insulate valve bodies nor fixture supplies.

C. See schedule on Sheet P1 for piping insulation thickness schedule for piping in exterior walls and above ceiling and see sheet T1 for winter design temperature.

SECTION 15500 – HEATING, VENTILATING, AND AIR CONDITIONING

1. Work included under this Division consists of providing everything required to construct and install a complete and proper operating mechanical systems as specified, indicated and elsewhere required.

2. Materials shall bear Underwriter's Label where such standards have been established and listed by Underwriter's Laboratories, inc.

3. Materials, equipment, and appliances shall conform to latest industry standards.

4. Installation shall be in accordance with all applicable codes and regulations enforced by local authorities. In the event of no local authority, current national codes shall govern.

5. Use extreme care in the installation of equipment to insure that noise and vibration are held to an absolute minimum. Correct objectional noise and vibration. Provide vibration eliminators required for proper results.

6. Cost for all fees, permits, tests, and inspections shall be paid for by the Mechanical Contractor.

7. Make known arrangement of work and check arrangement and location of other trades to avoid conflicts. Examine drawings of other trades to determine exact equipment locations for rough in.

8. Mechanical Contractor shall provide to the Owner or Franchisee all operation and maintenance manuals in two (2) copies. Contractor shall instruct the Owner or Franchisee OR the Owner's or Franchisee's representative in the operation of all equipment.

9. Notify the General Contractor 24 hours in advance when piping or equipment is to be tested, before piping is insulated or concealed, and before trenches are backfilled. Failing to comply, Contractor shall uncover and retest lines, repairing any damage to other Contractor's work as well as his own.

10. Before requesting final payment, inspect installation to assure that work is complete and requirements of contract have been fulfilled.

11. The Mechanical Contractor shall do cutting and patching required for installation of work. Do no more cutting than is necessary. Cutting of structural members will not be permitted.

12. Rooftop heating and cooling units shall be self–contained and designed, constructed, rated, and tested in accordance with ARI Standard 210. Units shall be by Carrier or Trane as alternate.

A. Unit enclosures shall be steel with factory applied corrosion and weather resistant finish. Provide gasketed removable panels or access doors for access to all internal parts. All joints shall be air and water tight. Enclosure shall be insulated in all areas of contact with conditioned or return air streams.

B. Compressors shall be of the hermetic type and shall be complete with internal thermal and overload protection in each leg, crankcase heaters, and service valves. For 10 ton units and above, controls shall consist of low pressure cutout, high pressure cutout, and high pressure relief. Magnetic contractors for compressor motors shall be located in unit control panel. Provide standard one (1) year parts, five (5) year compressor and one (1) year Mechanical Contractor labor warranty.

C. Condenser coil shall consist of non–ferrous tubing with mechanically bonded aluminum fins.

D. Condenser fans shall be propeller type. Fan motors shall have thermos and over–current protection. Magnetic contractors for fan motors shall be located in unit control panel.

E. Evaporator Coils shall consist of copper tubing with aluminum fins mechanically bonded to tubes. Coils shall be provided with liquid line dryer.

F. Supply air fan shall be of the belt driven centrifugal type, with forward curved blades. Fan shall be statically and dynamically balanced at the factory. Fan shall not pass through first critical speed of cataloged RPM's. Magnetic contactors for fan motor shall be located in unit control panel. Provide controls to prove fan operation before heating or cooling can be energized. These controls shall also shut off heating or cooling in event of low air flow.

G. Provide drain pan under cooling coil of adequate size to catch all coil condensate. Pan shall be zinc coated steel with heavy coat of insulating sealer. Provide pan with drain line connection and galvanized threaded trap. Provide auxiliary drain with float switch for unit deactivation.

LMHT Project No. 22160.00

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SECTION 15500 – HEATING, VENTILATING, AND AIR CONDITIONING (continued)

H. Heating section shall consist of two (2) stage gas fired heat exchanger complete with required gas valves, gas piping, factory wiring, and combustion fan. Provide minimum ten (10) year non–prorated heat exchanger warranty. Provide manual reset high limit protection for heating section acting through independent and separate contractors. Pilot shall be of the solid state electronic intermittent type. Provide power induced, combustion air purge air. Induced draft fan to run during pilot operation also.

I. Filters in units shall be 2 inch thick, low velocity, glass fiber throw–away type in commercially available sizes.

J. Electrical connections: Electrical disconnect shall be provided by manufacturer. Electrical Contractor shall provide/install circuit conductors from panel to disconnect.

K. See Corporate Vendor List on this sheet for contact & address.

13. Kitchen exhaust hoods, supply fans, exhaust fans, prefabricated curbs, and control boxes shall be supplied by the kitchen hood contractor. All equipment shall be installed by the mechanical contractor. Fire suppression piping, nozzles and fusible links pre–piped with the hood for an Ansul R–102 restaurant fire suppression system shall also be supplied by the hood contractor. The mechanical contractor shall employ a fire suppression subcontractor for installation of items external to the hoods and who will be responsible for the complete installation and certification of the suppression system. E.C. shall provide line voltage to equipment as required on plan.

Fire suppression sub–contractor shall furnish field items external to the hood in quantities shown on the plans and be responsible for the complete installation and certification of the suppression system.

14. Sheetmetal

A. Heating and air conditioning ductwork shall be constructed of galvanized sheet steel gauges and assembly as recommended by SMACNA.

B. Exhaust ductwork for the kitchen exhaust hood #1: Factory built round grease duct provided by hood contractor, installed by M.C.. Product meets listing to UL–1978, duct wall construction to be 0.036" or 0.047" thick stainless steel. Grease duct joints shall be connected by formed vee clamps and sealed with 3M fire barrier 2000+ per manufacturer's requirements. Duct supports shall be per manufacturer's requirements. Exhaust duct sized per specification on sheet M101.

C. Type of connections, bracing, construction, etc., shall be in accordance with the latest edition of the ASHRAE Guide. Ducts shall be substantially air tight.

15. Fire dampers shall meet or exceed NFPA, Bulletin 90A specifications. Install in fresh air intake where required by local code.

16. Back draft dampers shall be installed in exhaust air duct at fans as required by local code.

17. Grilles, registers, and diffusers shall be manufactured of extruded aluminum and shall be furnished in colors noted in schedule. Units shall be as manufactured by Nailor, Titus or Metal–Aire. Units shall be lay–in ceiling units unless noted otherwise.

A. Paint flat black all visible sheet metal behind grilles, registers and diffusers.

18. Insulated low pressure flexible duct shall be a factory fabricated assembly consisting of a zinc–coated spring steel helix, non–perforated inner liner, wrapped with a fiberglass insulation. The assembly shall be sheathed in a vapor barrier jacket, factory sealed at both ends of each section. The composite assembly including insulation and vapor barrier shall meet the Class 1 requirements of NFPA Bulletin No. 90A and be U.L. labeled. The "R" value measured at 75 degrees F shall be 6.0 or greater per ASTM C177–71.

A. Duct shall be Certainteed, "Certaflex" 25, as
A. manufactured by the Certainteed Corporation, PO BOX 860, Valley Forge, Penn. 19482 or ATCO 70 Series as manufactured by ATCO Rubber Products, Inc., 4920 Mark IV Parkway, Fort Worth, TX 761–6.

B. Install duct in a fully extended condition free of sags and kinks, using only the minimum length required to make the connection. Where horizontal support is required, flexible duct shall be suspended on 36 inch centers with a minimum 3/4" wide flat banding materials. All joints and connections shall be made with 1/2" positive locking steel straps.

19. Insulation

Insulation shall be Certainteed, Johns–Manville, Owens–Corning, or equal, applied by Contractor or manufacturer's representative regularly engaged in the application of insulation. Insulation shall be a minimum of 2" thick, 3/4 pound density or 1" thick, 1 1/2 pound density, with a vapor barrier having a maximum permeance of 0.05 perms or aluminum foil having a minimum thickness of 2 mils. R–value shall be 6.0 minimum.

B. All insulation materials, coatings and other accessories shall have a fire hazard rating not to exceed 25 for flame spread, 50 for fuel contribution, and 50 for smoke developed; materials shall not produce flaming droplets when subjected to fire. All products or their cartons shall bear label indicating conformance to the above requirements.

C. Round duct (if required) shall be externally insulated with 1 inch thick flexible blanket with an integral vapor barrier. "R" value shall be a 6.0 minimum.

D. All refrigerant lines shall be insulated with 1/2 inch Aerotube.

20. Calibration Test Balancing

A. A completely installed, operating, and balanced system is the responsibility of the Mechanical Contractor. Listed below is the division of specific tasks.

B. Mechanical Contractor shall do the following:

1) Set HVAC units to RPM and amp draws listed on setup sheet.
2) Check and set HVAC evaporator fans for proper rotation.
3) Connect HVAC transformers to proper voltage taps.
4) Install thermostats and check for proper operation.
5) Install and check all diffusers for proper locations and throw pattern.
6) Verify that the exhaust hood fans are properly interlocked with the correct make–up air fans and appliances.
7) Set exhaust and make–up air fans to RPM values listed on setup sheet.
8) Adjust exhaust and make–up air fans for proper rotation.
9) Verify that hood exhaust filters are installed properly.
10) Verify that the non–heated make–up air ducts have dampers to each hood opening.
11) Verify that each supply run has its dampers open and locked.
12) Verify that each fan has the proper voltage present at the motor.
13) M.C. shall coordinate with RTU manufacturer for commissioning as called for on the plan.

C. Certified Air Balance Agency shall do the following:

1) Inspect for proper fan installation.
2) Check for proper exhaust fan operation.
3) Check for air flow from each diffuser.
4) Check thermostat for proper functional operation.
5) Check rooftop unit for proper thermostat connections, voltage taps and outside air interconnect.
6) Measure amperage and RPM of each HVAC unit. (Direct the mechanical contractor to adjust pulleys to proper values to obtain desire results).
7) Check the speed tap for the restroom exhaust fan and direct the mechanical contractor to adjust as required.
8) Measure the restroom exhaust and supply diffusers and adjust the volumes near the values listed on the drawings.
9) Measure the main exhaust hood fan volumes and direct the Mechanical Contractor in the adjustment of the fans to obtain values near those listed on drawings.
10) Measure the main exhaust hood fan volumes and direct the mechanical and electrical equipment by coordinating the fans to obtain values near those listed on the drawings.
11) Complete installation inspection.
12) Measure supply air volumes from each HVAC unit with a flow hood, adjusting values to desired values.
13) Smoke hoods for capture ability.

D. For test and balance services and reports, contact:
CaptiveAire, Raleigh, North Carolina, Phone: (919) 757–2820.
Melink Corporation, Cincinnati, Ohio, Phone: (513) 271–1615.

DIVISION 16 – ELECTRICAL

SECTION 16100 – BASIC ELECTRICAL REQUIREMENTS

1. All outlets, fixtures, and equipment shall be fully connected to proper sources of power supply and left ready for use.

2. Provide all excavation and tamp–backfill as required to complete work. Correct any settling during guarantee period to the Owner's satisfaction.

3. Provide all necessary cutting and patching as required to complete work. Patching shall be done by mechanics skilled at their work. All openings shall be filled and matched to conform with fire regulations.

4. Cooperate with other trades: Make known to other trades arrangement of electrical work. Examine work of other trades to avoid any conflicts. Examine drawings of other trades to determine exact equipment locations. Examine manufacturer's shop drawings to determine rough–in requirements.

5. Permits, fees and codes; Pay all costs for permits, fees and inspections required by authorized agencies having jurisdiction over electrical work. Electrical system shall conform to requirements of N.E.C., State, and Local Electrical Codes, Energy Codes, Local authorities and Utility Company.

6. Equipment manufacturers', other than those listed, will be acceptable upon written approval from Owner. All electrical materials shall be listed and labeled by U.L. and shall conform to NEMA and other industry standards.

7. Provide typewritten directories in branch panel boards with clear plastic shields. Provide engraved plastic name plates on all disconnect switches, motor starters, control devices, and switches in service entrance equipment.

8. Tests: Entire electrical system shall be fully tested and corrected of any short circuits, open grounds, faulty wiring, and incorrect connections.

9. Guarantee: Complete electrical system including all materials, equipment, and labor shall be guaranteed for a period of one year beginning with date of acceptance of building by the Owner.

SECTION 16200 – BASIC MATERIALS AND METHODS

1. Section 16100 applies to all work hereunder and shall include conduit, boxes, wire, wiring devices, lighting fixtures, and related materials.

2. Conduit:

A. Connections to equipment shall be made with a 3'–0" flexible liquid–tight conduit with liquid–tight connectors.

B. Connections to recessed lighting fixtures shall be made with 6'–0" of 1/2" flexible conduit from a box within 2'–0" of the fixture.

C. Rigid galvanized threaded thickwall conduit with threaded fittings shall be provided in slabs on grade. Conduits below slabs on grade or in earth outside of buildings shall be Schedule 40 PVC with separate grounding conductor per NEC Article 352.60, current edition, where acceptable by Local Codes. Where the use of PVC conflicts with Local Codes, substitute rigid galvanized threaded thickwall conduit painted with two (2) coats of Asphaltum and with two (2) coats applied at joints after installation. All conduit outside building shall be buried a minimum of 2'–0".

D. All other conduit shall be electric metallic tubing with compression type, or set screw type fittings.

3. Concealed boxes shall be 4 inches square galvanized steel with galvanized extension rings, total depth of not less than 2 1/2 inches.

Surface mounted boxes shall be cast weatherproof aluminum.

4. Wire: Conductors shall be 98 percent Conductivity Copper of No.12 AWG minimum size. Insulation shall be color coded, and rated for 600 volts minimum. Type THWN shall be used.

5. Wire connectors for sizes No. 10 AWG and smaller shall be Ideal or 3M winged wire nuts. Connectors for wire size No. 8 and larger shall be by Blackburn or Burndy Compression Connection methods using hydraulic presses and heat shrink insulation kits.

6. Wall switches shall be white and shall be as follows or approved equal:

A. 20 amp, SP 120/277 volt:
Arrow/Hart 1221W, Bryant 4901W, or Hubbell 1221W.

B. 20 amp, 3W, 120/277 volt:
Arrow/Hart 1223W, Bryant 4903W, or Hubbell 1223W.

C. 20 amp, 4W, 120/277 volt:
Arrow/Hart 1224W, Bryant 4904W, or Hubbell 1224W.

D. 20 amp, SP, 120/277 volt, with pilot light:
Arrow/Hart 1221PL, Bryant 4901PLR120/4901PLR277 or Hubbell 1221PL.

E. 20 amp, SP, 120/277 volt, weatherproof:
Bryant 4981/1795WP, Hubbell No. 1281/1795.

7. Receptacles shall be white and shall be as follows or approved equal. Provide other receptacles as indicated on drawings.

A. 20 amp, 125 volt, duplex:
Arrow/Hart 5362W, Bryant 5362W, or Hubbell 5362W. Hubbell No. 5362GRY (1).

B. 20 amp, 125 volt, twistlock
Bryant 70520FR, Hubbell 2310.

C. 30 amp, 250 volt, 3 wire grounding:
Arrow/Hart 1234BK, Bryant 9630FR, or Hubbell 9430A.

D. 50 amp, 250 volt, 3 pole, 4 wire grounding:
Arrow/Hart 8450N, Bryant 8450NP, or Hubbell 8450A.

E. Ground Fault Interrupting, duplex:
Arrow/Hart SGF20W, Bryant GFRST20W, or Hubbell GF20WL. (Provide spring loaded weatherproof covers where required by code.)

F. Clock and Sign Hanger:
Arrow/Hart TR775W, Bryant RR201CHWTR, or Hubbell No. 5235.

G. Combination 120V duplex receptacle and USB charging:
Arrow/Hart TR7756W, Bryant USBB20W, or Hubbell 5235.

Face Plates: Provide face plates for all devices including wall switches, receptacles, telephone outlets, an all wall outlets. Face plates shall be white in customer areas and satin finished stainless steel in kitchen and service areas.

8. Lighting fixtures shall be furnished by Contractor as scheduled on drawings unless otherwise noted. Contractor shall install all lighting fixtures and provide necessary mounting hardware. All recessed lighting fixtures shall be thermally–protected as required by code.

A. Contractor shall furnish and install one complete set of lamps for all lighting fixtures supplied by the contractor. Provide label in each fixture indicating size and type of lamp corresponding with schedule on drawings.

B. Starters: Three–phase units shall be by Square D, Type 8536 with 120 volt coil, N.O. Auxiliary contact and with red pilot (in cover).

C. Raceway systems shall be installed to maintain the maximum headroom. Common supports may be used for mechanical and electrical equipment by coordinating the work with all trades.

D. Wire: Use only approved type wire–pulling lubricants for wire No. 4 AWG or larger. Splice wire only in accessible boxes. Make wire joints mechanically strong before applying the connector, and where tape is used, wrap each joint to the thickness of the original insulation. Clean and polish metallic surfaces before installing conductors. Apply pressure type lugs on standard conductors connected to screw or bolt type connections.

E. All wire shall be installed in a conduit and shall be concealed where possible. Where necessary to expose the wiring, the raceway shall be installed as inconspicuously as possible and in straight lines, parallel with the building lines. Cut raceway square, ram, smooth, and make–up tight. Plug ends of raceways during construction and swab–clean before pulling wire or cable.

F. All electrical boxes shall be supported from building structural members independently of the conduit raceways, mechanical systems, or suspended ceiling supports. Recessed boxes shall be protected during construction and shall be cleaned before pulling wire and installing devices.

SECTION 16200 – BASIC MATERIALS AND METHODS (continued)

G. Wiring devices: Unless noted otherwise, receptacles shall be installed 22 inches above the finished floor to the top of the box, switches shall be 48 inches above finished floor to the top of the box. Receptacles noted above work counters and cabinets shall be mounted above the backsplash. Weatherproof receptacles shall be installed so that the cover protects the device in the open position. Receptacles shall be bonded to metallic boxes or to separate ground conductor per NEC.

H. Equipment connections: Provide all necessary motor starters, disconnect switches, controls, conduit boxes, wire, etc., and connect complete to each piece of equipment requiring connections indicated on the drawings. Where equipment ratings differ from that indicated consult the Owner.

I. Lighting fixtures; Fixtures supported in exposed grid ceilings shall be provided with clips. Fixtures mounted in or on tile ceilings shall be aligned with tiles. Lighting fixtures shall be supported from the building structural members except for exposed grid ceilings where a ceiling supporting wire shall be provided at each fixture corner.

J. Cleaning: All equipment, including panel boards, switches, wiring devices, lighting fixtures, wall plates, etc., shall be free of corrosion, dirt, paint spatter or damage of any sort at final acceptance of the work. Contractor shall clean, repair or replace same as instructed by Owner before final payment.

SECTION 16400 – SERVICE DISTRIBUTION

1. Service:

A. Contractor shall verify service voltage and type of termination with local utility company and shall provide necessary revisions and modifications required. Service terminations may either be underground or overhead depending on the utility company's requirement and approval by the Owner.

B. Contractor shall submit service design to utility and recieve utility approval prior to purchasing gear.

C. Contractor shall immediately notify engineer of any service design changes required by the utility.

D. Costs arising from lack of advance coordination with the utility shall be borne by the contractor.

2. Metering: Contractor shall provide necessary metering facilities including meter socket, current–transformer cabinet, conduit, and other work for metering required by the local utility company.

3. Grounding: All exposed non–current carrying metallic parts of the electrical equipment, including the metallic raceway system and neutral conductor shall be grounded in accordance with N.E.C. Provide a driven ground rod or system of ground rods which will provide an overall grounding resistance less than 25 ohms. Connection between ground rod and grounding electrode conductor shall be made using exothermic welds. Provide connection to metallic water service and structural steel within the building and additionally to reinforcing steel in the building foundation. All points of grading connections shall be made accessible.

4. Raceways: All raceways shall include an equipment grounding conductor pulled with the phase conductors.

5. Panelboards: All panelboards shall be of the dead front bolt–on circuit breaker type with mains, copper bus bars, and branch circuit breakers as shown in the panel board schedules. All panel boards and cabinets shall be so labeled. Panel board assemblies shall be enclosed in code gauge steel cabinets with ample wiring gutters on top, sides, and bottom. Cabinets shall be complete with trim and doors with combination catch and lock, all locks keyed alike, and two (2) keys furnished for each lock. Cabinets, trim, and doors shall be finished as in standard with the manufacturer. Cabinets shall be for surface or flush mounting as indicated on the various panel board schedules and shall be 20 inches wide minimum. All branch circuit breakers shall be 20 ampere trip unless otherwise shown.

A. Lighting and appliance panelboards shall be Siemens, Square D or Eaton, bolt–on breaker design.

B. Power panelboards shall be Siemens, Square D or Eaton, bolt–on breaker design.

C. Circuit breakers shall be bolt–on, thermal–magnetic trip, trip–free, quick–make on manual or automatic operation, and shall indicate tripping by the position of the handle midway between "off" and "on". All multiple circuit breakers shall be single handle, common trip, no handle ties shall be used.

D. Panelboard locations shown on the drawings are schematic. If there is a question about the exact location of any panel board, the contractor shall verify with the Architect.

E. Panelboards shall be mounted with the top circuit breaker a maximum of 6 feet 6 inches above the floor.

F. Where two or more panelboards are located adjacent they shall be mounted so that their bottom edges are in alignment.

G. Each panel board shall be provided with a neatly typed directory which completely identifies the utilization of each circuit.

H. The etched laminated plastic identification plate for each panelboard shall show the panelboard identification, voltage and its feeder designation.

6. HVAC non–integral disconnect switches shall be furnished by the Electrical Contractor. All disconnect switches shall be normal duty type NEMA ND, fused unless noted otherwise, and with operator interlocked with the door so door can be opened only in the "off" position. Switches shall be manufactured by General Electric, Squore D, or Eaton.

7. The main pole sign and building signs shall be turned on by Timeclock number 1.

8. Smoke detectors shall be provided in accordance with state and local code requirements.

9. The electrical contractor shall run a 2 inch PVC conduit from the telephone panel to the service delivery or demarcation point. Coordinate final termination point with the Telephone Service Provider.

LMHT Project No. 22160.00

national restaurant designers
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NELSON RAY THOMPSON JR. LICENSED No. 50383 STATE OF FLORIDA PROFESSIONAL ENGINEER
8/12/2022

RIB CRIB GEN 6 PROTOTYPE

Location: GATEWAY CROSSING, CENTURION WAY
LAKE CITY, FLORIDA 32055

Drawing: SPECIFICATIONS

Revisions

THRU ADDENDUM " "

PROJECT DATE
08/12/2022

Drawn By
NRD

Checked By
GRL

Sheet No.
SP107

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