



7/10/23

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: **COVER SHEET**

Revisions  
 THRU ADDENDUM "D"  
 11/21/2022

PROJECT DATE  
 06/29/2023  
 Drawn By  
 CIH  
 Checked By  
 CGI

Sheet No.  
**G001**

ABBREVIATIONS			
A/C	AIR CONDITIONING	JT	JOINT
ADD'L	ADDITIONAL	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	LN	LINEAR
ASF	ABOVE SUB FLOOR	LP	LOW POINT
ATS	ABOVE TOP OF SLAB	LVL	LAMINATED VENEER LUMBER
ALT	ALTERNATE	MAX	MAXIMUM
ALUM	ALUMINUM	MC	MECH. CONTRACTOR
APPROX	APPROXIMATE	MECH	MECHANICAL
BD	BOARD	MFR	MANUFACTURE (R) (ING)
BLDG	BUILDING	MIN	MINIMUM
BLK	BLOCK	MISC	MISCELLANEOUS
BLKG	BLOCKING	MO	MASONRY OPENING
BM	BEAM	MTD	MOUNTED
BOTT	BOTTOM	MTL	METAL
BRG	BEARING	N	NORTH
B/J	BOTTOM OF	NIC	NOT IN CONTRACT
C/C	CENTER TO CENTER	NO or #	NUMBER
CJ	CONSTRUCTION JOINT	NOM	NOMINAL
CLG	CEILING	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
CNTR	CENTER	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
CO	CLEAN OUT	OPP	OPPOSITE
COL	COLUMN	PAC	POWDER ACTIVATED FASTENER
CONC	CONCRETE	PLMB	PLUMBING CONTRACTOR
CONSTR	CONSTRUCTION	PL	PLASTIC LAMINATE
CONTR	CONTRACTOR	PLMB	PLUMBING
CONT	CONTINUOUS	PLYWD	PLYWOOD
DET	DETAIL	PNL	PANEL
DIA	DIAMETER	PREFAB	PREFABRICATED
DIM	DIMENSION	PROJ	PROJECT
DN	DOWN	PVC	POLYVINYL CHLORIDE
DS	DOWNSPOUT	R	RADIUS
DW	DRY WALL	R	RISER
DWG	DRAWING	RD	ROOF DRAIN
EA	EACH	RECP	RECEPTACLE
EO	ELEC. CONTRACTOR	REINF	REINFORCING
EL	ELEVATION	REQ'D	REQUIRED
ELEC	ELECTRIC (AL)	RES	RESILIENT
ELEV	ELEVATOR	REV	REVISION
EPS	EXPANDED POLYSTYRENE	ROOM	ROOM
EW	EACH WAY	RO	ROUGH OPENING
EWC	ELECTRIC WATER COOLER	SAC	SUSPENDED ACOUSTICAL CEILING
EXIST	EXISTING	SAC-1	SAC-1 HOUR RATED
EXP JT	EXPANSION JOINT	SECT	SECTION
EXT	EXTERIOR	SHT	SHEET
F/C	FREEZER/COOLER BOX	SIM	SIMILAR
FD	FLOOR DRAIN	SPEC	SPECIFICATIONS
FDN	FOUNDATION	STL	STEEL
FIN	FINISH	STRUCT	STRUCTURAL
FLR	FLOOR	STR	STRUCTURAL
FT	FEET	T & B	TOP AND BOTTOM
FTG	FOOTING	T & G	TONGUE AND GROOVE
GALV	GALVANIZED	TREAD	TREAD
GC	GENERAL CONTRACTOR	T/	TOP OF
GYP	GYPSPUM	TRT	TREATMENT
HDW	HARDWARE	UON	UNLESS OTHERWISE NOTED
HM	HOLLOW METAL	VCT	VINYL COMPOSITION TILE
HORIZ	HORIZONTAL	VERT	VERTICAL
HP	HIGH POINT	VWC	VINYL WALL COVERING
HT	HEIGHT	WC	WATER CLOSET
HVAC	HEATING/VENTILATION/AIR CONDITIONING	WD	WOOD
HYG	HYGIENE	WH	WATER HEATER
ID	INSIDE DIAMETER	W/	WITH
IN	INCH	W/O	WITHOUT
INFO	INFORMATION	WWF	WELDED WIRE FABRIC
INSUL	INSULATION		
INT	INTERIOR		
INV	INVERT		

# PROJECT

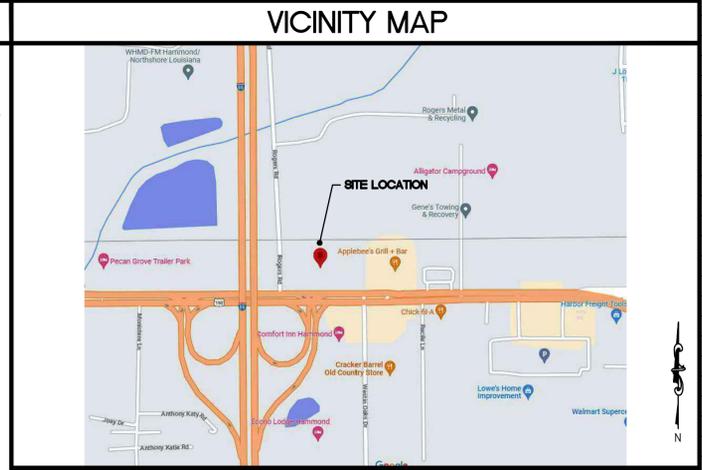
## BURGERS SHAKES FRIES

PROJECT SITE	OWNER	ARCHITECT/ENGINEER
3236 HWY 190 HAMMOND, LA 70401	PCA 1 Development LLC 3000 Chestnut Ave. Suite 109B Baltimore, MD 21211	NATIONAL RESTAURANT DESIGNERS - NRD 7208 ACC BLVD, SECOND FLOOR RALEIGH, NORTH CAROLINA, 27617 TEL: (919)544-0087 FAX: (919)544-9399

- ### GENERAL NOTES
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS & INSPECTIONS REQUIRED FOR CERTIFICATE OF OCCUPANCY.
  - 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.
  - CONTRACTOR TO VERIFY FIT & FINISH REQUIREMENTS FOR ALL PROJECT COMPONENTS, WITH LANDLORD, PRIOR TO ORDERING MATERIALS. REPORT CONFLICTING INFORMATION TO LANDLORD PRIOR TO PROCEEDING WITH WORK.
  - CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION & CONSTRUCTION DEBRIS AS REQUIRED BY FEDERAL, STATE, AND LOCAL ORDINANCES.
  - BY THE USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE LANDLORD REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE.
  - 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.
  - CONTRACTOR SHALL COORDINATE THE REQUIREMENTS OF ANY AND ALL DRAWINGS INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDLORD & ARCHITECT PRIOR TO ANY WORK.
  - THE CONTRACTOR IS RESPONSIBLE 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.
  - 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 LANDLORD & ARCHITECT IMMEDIATELY.
  - 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 CLARIFICATION, INTERPRETATION, OR REVISION AS REQUIRED.
  - IF THE CONTRACTOR DISCOVERS AN ERROR OR INCONSISTENCY AND PROCEEDS WITH WORK WITHOUT NOTIFYING THE LANDLORD & 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.
  - 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 R.F.I. (REQUEST FOR INFORMATION). THE ARCHITECT SHALL THEN RESPOND IN WRITING TO ALL APPROPRIATE PARTIES.
  - CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF WORK, MATERIALS, FIXTURES, ETC. IN LEASED SPACE FROM LOSS, DAMAGE, FIRE, THEFT, ETC.
  - WHEREVER THE TERM "OR EQUAL" IS USED, IT SHALL MEAN EQUAL PRODUCT AS APPROVED IN WRITING BY ARCHITECT.
  - 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.
  - CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY INWALL FRAMING REQUIRED TO CARRY SHELF, HANGING, AND VALANCE LOADS, RAILINGS, ETC. AS PER PLANS.
  - PROVIDE SILICONE SEALANT AT ALL JOINTS AND INTERFACES OF ALL COUNTERTOPS, EQUIPMENT AND WALLS.
  - PROJECT SHALL BE LEFT CLEANED AND POLISHED AFTER COMPLETION OF WORK.
  - CONTRACTOR SHALL REFER TO THESE DOCUMENTS, AS WELL AS SPECIFICATIONS, FOR IDENTIFICATION OF ALL LANDLORD & TENANT SUPPLIED ITEMS. CONTRACTOR SHALL VERIFY WITH LANDLORD, PRIOR TO ORDERING, WHICH ITEMS THE LANDLORD & TENANT SHALL SUPPLY. ALL ITEMS NOT MARKED AS "LANDLORD & TENANT SUPPLIED" ARE TO BE SUPPLIED BY THE CONTRACTOR. UNLESS NOTED OTHERWISE ALL ITEMS ARE TO BE INSTALLED BY GENERAL CONTRACTOR.
  - MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISHES SHALL CONFORM TO THE BUILDING CODE AND LOCAL GOVERNING BUILDING CODES/ORDINANCES.
  - CONTRACTOR SHALL CONTACT THE LOCAL FIRE MARSHALL, AND PROVIDE AND INSTALL FIRE EXTINGUISHERS PER THE FIRE MARSHALLS DIRECTION, INCLUDING: TYPE, QUANTITY, AND LOCATIONS. AS A MINIMUM, CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS HAVING A RATING OF 2-A10-BC FOR EVERY 3,000 S.F. OF FLOOR AREA AND TRAVEL DISTANCE TO AN EXTINGUISHER SHALL NOT EXCEED 75 FEET.
  - FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS/DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
  - 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.

### SYMBOL LEGEND

DRAWING SUBTITLE	DETAIL NUMBER SCALE: 1/4" = 1'-0"
DETAIL MARKS	DETAIL NUMBER DRAWING NUMBER
ELEVATION MARK	DRAWING NUMBER ELEVATION NUMBER
SECTION MARKS	SECTION NUMBER DRAWING NUMBER
ROOM TAG	ROOM NAME ROOM NUMBER
DOOR NUMBER	
EQUIPMENT	
ELEVATION DATUM	ELEVATION REFERENCE ELEVATION HEIGHT
CEILING TAG	CEILING TYPE CEILING HEIGHT
NOTE REFERENCE	
WALL + BASE FINISH TAGS	
WALL TYPE	



- ### GENERAL SCOPE OF WORK
- 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.
  - ALL ALUMINUM CANOPIES TO BE SUBMITTED UNDER A SEPARATE PERMIT BY THE CANOPY CONTRACTOR. EXHAUST HOODS, REFRIGERATION, GAS, AND HOOD SUPPRESSION SYSTEMS TO BE PERMITTED UNDER SEPARATED PERMIT BY A LICENSED CONTRACTOR
- ### CODES
- 2021 INTERNATIONAL BUILDING CODE W/ STATE AMENDMENTS  
 2021 INTERNATIONAL MECHANICAL CODE W/ STATE AMENDMENTS  
 2021 INTERNATIONAL PLUMBING CODE W/ STATE AMENDMENTS  
 2020 NATIONAL ELECTRICAL CODE  
 2021 INTERNATIONAL ENERGY CONSERVATION CODE W/ STATE AMENDMENTS

### DESIGNERS OF RECORD

DISCIPLINE	NAME	ADDRESS	LIC. #
ARCHITECT	GLEN LEHAMMN	7208 ACC BLVD SECOND FLOOR RALEIGH, NC 27617	8374
ELECTRICAL	NELSON RAY THORNTON, JR.	7208 ACC BLVD SECOND FLOOR RALEIGH, NC 27617	28634
PLUMBING	NELSON RAY THORNTON, JR.	7208 ACC BLVD SECOND FLOOR RALEIGH, NC 27617	28634
MECHANICAL	NELSON RAY THORNTON, JR.	7208 ACC BLVD SECOND FLOOR RALEIGH, NC 27617	28634
STRUCTURAL	BRET UNDERWOOD	999 WATERSIDE DRIVE, NORFOLK, VA 23510	037779
CIVIL	KEVIN S. PULIS	8650 E. STATE ROAD 32 ZIONSVILLE, IN 46077	042797

### LIST OF DRAWINGS

SHEET	DESCRIPTION	REVISIONS				
		1	2	3	4	5
<b>GENERAL</b>						
G001	COVER SHEET					
G002	COD SUMMARY AND ADDENDUM LIST					
G003	RESPONSIBILITY MATRIX					
G111	OCCUPANCY AND LIFE SAFETY PLANS					
<b>STRUCTURAL</b>						
S1.1	GENERAL NOTES					
S1.2	GENERAL NOTES					
S2.1	FOUNDATION PLAN					
S2.2	ROOF FRAMING PLAN					
S3.1	SECTIONS					
S3.2	SECTIONS					
S3.3	SECTIONS					
S3.4	SECTIONS					
S4.1	TYPICAL DETAILS					
S4.2	TYPICAL DETAILS					
S4.3	TYPICAL DETAILS					
<b>ARCHITECTURAL</b>						
A111	FLOOR PLAN					
A121	REFLECTED CEILING PLAN AND DETAILS					
A161	ROOF PLAN					
A201	EXTERIOR ELEVATIONS					
A202	EXTERIOR ELEVATIONS					
A301	BUILDING SECTIONS					
A302	WALL SECTIONS					
A303	WALL SECTIONS					
A304	WALL SECTIONS					
A305	WALL SECTIONS					
A401	ENLARGED TOILET PLAN AND TOILET ELEVATIONS					
A402	BAR-TOP COUNTER PLANS					
A403	INTERIOR ELEVATIONS					
A404	INTERIOR ELEVATIONS					
A405	INTERIOR ELEVATIONS					
A501	ENLARGED DETAILS					
A502	ENLARGED DETAILS					
A601	DOOR SCHEDULE					
A602	WINDOW SCHEDULE					
A701	ARCHITECTURAL SPECIFICATIONS					
A702	ARCHITECTURAL SPECIFICATIONS					
AS111	ARCHITECTURAL SITE PLAN					
AS501	DUMPSTER ENCLOSURE					
AS502	DRIVE THRU DETAILS					
AS510	DRIVE THRU INSTRUCTION SHEETS					
AS511	DRIVE THRU INSTRUCTION SHEETS					
AS512	CANOPY FLAT TOP					
AS513	CANOPY FLAT TOP WITH ELECTRICAL					
AS514	PERMIT ELECTRICAL					
AS515	FOOTING DETAILS					
<b>INTERIOR</b>						
ID111	FINISH FLOOR PLAN AND FINISH CEILING PLAN					
<b>EQUIPMENT</b>						
Q111	EQUIPMENT FLOOR PLAN AND NOTES					
Q600	EQUIPMENT SCHEDULE					
Q601	EQUIPMENT SCHEDULE					
<b>PLUMBING</b>						
P001	PLUMBING NOTES, LEGEND, SCHEDULES AND CALCULATIONS					
P111	PLUMBING WASTE / VENT PLAN					
P112	PLUMBING WATER AND GAS PLAN					
P113	PLUMBING ROOF PLAN					
P114	PLUMBING ROOM-IN PLAN AND INTERIOR ELEVATIONS					
P211	PLUMBING RISERS					
P311	PLUMBING DETAILS					
P411	PLUMBING SPECIFICATIONS					
<b>MECHANICAL</b>						
M121	MECHANICAL FLOOR PLAN					
M161	MECHANICAL ROOF PLAN					
M501	MECHANICAL DETAILS					
M502	HOOD DETAILS (SHOP DRAWING FOR REFERENCE ONLY)					
M503	HOOD DETAILS (SHOP DRAWING FOR REFERENCE ONLY)					
M504	HOOD DETAILS (SHOP DRAWING FOR REFERENCE ONLY)					
M505	HOOD DETAILS (SHOP DRAWING FOR REFERENCE ONLY)					
M506	HOOD DETAILS (SHOP DRAWING FOR REFERENCE ONLY)					
M507	HOOD DETAILS (SHOP DRAWING FOR REFERENCE ONLY)					
M508	HOOD DETAILS (SHOP DRAWING FOR REFERENCE ONLY)					
M509	HOOD DETAILS (SHOP DRAWING FOR REFERENCE ONLY)					
M601	MECHANICAL SCHEDULES AND NOTES					
M701	MECHANICAL SPECIFICATIONS					
<b>ELECTRICAL</b>						
E000	ELECTRICAL NOTES AND LEGEND					
E111	ELECTRICAL POWER PLAN					
E121	ELECTRICAL LIGHTING PLAN					
E131	ELECTRICAL LOW VOLTAGE PLAN					
E161	ELECTRICAL ROOF PLAN					
E601	ELECTRICAL SCHEDULE, NOTES, RISER AND DETAILS					
E701	ELECTRICAL SPECIFICATIONS					
E801	CPI SWITCHGEAR (SHOP DRAWING FOR REFERENCE ONLY)					
ES111	ELECTRICAL SITE PLAN					

BUILDING CODE SUMMARY

BUILDING DATA

OCCUPANCY: MIXED OCCUPANCY? \_\_\_YES \_\_\_NO
A2- RESTAURANT
OCCUPANT LOAD: 72 OCCUPANTS - REFER TO DRAWING G111
CONSTRUCTION TYPE: V-B
SPRINKLED? \_\_\_YES \_\_\_NO
FIRE DISTRICT? \_\_\_YES \_\_\_NO
BUILDING HEIGHT: 21'-0" / 26'-0" \*FIN- (40'-0" ALLOWABLE HEIGHT)
NUMBER OF STORIES: 1
MEZZANINE: \_\_\_YES \_\_\_NO
GROSS BUILDING AREA:
GROSS SHELL BUILDING: 2,159 S.F.
EXTERIOR FREEZER/COOLER: 342 S.F.
TOTAL: 2,501 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 G111 FOR EXIT REQUIREMENTS AND LIFE SAFETY PLAN

STRUCTURAL DESIGN LOADS

SEE STRUCTURAL DRAWINGS

SPECIAL INSPECTIONS

NO SPECIAL INSPECTIONS REQUIRED

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 -

TOILET FACILITIES

TOTAL = 98 PEOPLE
MALE = 49
FEMALE = 49
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

PARKING SPACES

SEE CIVIL DRAWINGS BY OTHERS

ENERGY CODE SUMMARY

THERMAL ENVELOPE: zone 2A

METHOD OF COMPLIANCE:
PRESCRIPTIVE \_\_\_ PERFORMANCE \_\_\_ TRADE OFF \_\_\_ (COM CHECK)
ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: "FLAT" ROOF
ROOF MEMBRANE OVER R-25 RIGID ROOF INSULATION
WOOD ROOF DECK, WOOD TRUSSES
AND ACOUSTICAL CEILING TILE.
R-VALUE OF INSULATION: R-25
U-VALUE OF TOTAL ASSEMBLY: 0.039 (BTU/HR-Ft^2-F)
SKYLIGHTS IN EACH ASSEMBLY: NONE
EXTERIOR WALLS (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: (E.I.F.S. 1/2" SHEATHING,
5 1/2" BATT INSUL., 2x6 WOOD STUD, 1/2" GYP. BD.)
(E.I.F.S.) CONTINUOUS R-VALUE: R-7.2
R-VALUE OF BATT INSULATION: R-21
U-VALUE OF TOTAL ASSEMBLY: 0.042
OPENINGS-WINDOWS WITH GLAZING:
U-VALUE OF ASSEMBLY: 0.46 MAX (BTU/HR-Ft^2-F)
SHADING COEFFICIENT: 0.25 MAX
PROJECTION FACTOR: VARIES
OPENINGS DOORS WITH GLAZING:
U-VALUE OF ASSEMBLY: 0.77 MAX (BTU/HR-Ft^2-F)
SHADING COEFFICIENT: 0.25 MAX
PROJECTION FACTOR: VARIES
EXTERIOR METAL DOOR U-VALUE: 1.0 MAX
WALLS ADJACENT TO UNCONDITIONED SPACE (EACH ASSEMBLY): NONE
WALLS BELOW GRADE (EACH ASSEMBLY): NONE
FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY): NONE
FLOORS SLAB ON GRADE
DESCRIPTION OF ASSEMBLY: 4" CONCRETE ON 4" CRUSHED STONE
U-VALUE OF TOTAL ASSEMBLY: 0.73
R-VALUE OF INSULATION: NONE REQUIRED
HORIZONTAL/VERTICAL REQUIREMENT: NONE REQUIRED
SLAB HEATED: NO

MECHANICAL SYSTEMS AND EQUIPMENT:

METHOD OF COMPLIANCE: PRESCRIPTIVE \_\_\_ ENERGY COST BUDGET \_\_\_
MECHANICAL SPACE CONDITIONING SYSTEM
UNITARY: RTU #1 RTU #2 RTU #3
DESCRIPTION OF UNIT: 7.5 TON COOLING 7.5 TON COOLING 10 TON COOLING
W/ GAS HEAT W/ GAS HEAT W/ GAS HEAT
HEATING EFFICIENCY: 82% 82% 82%
COOLING EFFICIENCY: 11.2 EER 11.2 EER 11.0 EER
HEAT OUTPUT OF UNIT: 102.5 MBH 102.5 MBH 147.8 MBH
COOLING OUTPUT OF UNIT: 90.0 MBH 90.0 MBH 120.0 MBH
BOILER: NONE CHILLER: NONE
THERMAL ZONE: 2A
EXTERIOR DESIGN CONDITIONS
WINTER DRY BULB: 28.2F
SUMMER DRY BULB: 95.0F
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS) BY OTHERS
INTERIOR DESIGN CONDITIONS: RTU #1 RTU #2 RTU #3
WINTER DRY BULB: 70F 70F 88F
SUMMER DRY BULB: 74F 74F 78F
RELATIVE HUMIDITY: 55% 55% 55%
MOTOR TYPE: SEE SHEET M1
# OF POLES: SEE SHEET M1
BUILDING HEATING LOAD: 139.9 MBH
BUILDING COOLING LOAD: 285.4 MBH

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:
PRESCRIPTIVE \_\_\_ PERFORMANCE \_\_\_
LIGHTING SCHEDULE
LAMP TYPE REQUIRED IN FIXTURE: SEE "E" DRAWINGS
NUMBER OF LAMPS IN FIXTURE: SEE "E" DRAWINGS
BALLAST TYPE USED IN THE FIXTURE: SEE "E" DRAWINGS
NUMBER OF BALLASTS IN FIXTURE: SEE "E" DRAWINGS
TOTAL WATTAGE PER FIXTURE: SEE "E" DRAWINGS
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 1,876 W VS. 2,376 W
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: 270 W VS. 1,311 W
EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS): NONE
MOTOR HORSEPOWER:
NUMBER OF PHASES:
MINIMUM EFFICIENCY:
MOTOR TYPE: BY OTHERS
# OF POLES:

ALTERNATE BIDS:

- 1. GENERAL CONTRACTOR TO PROVIDE AN ALTERNATE BID TO INSTALL MARLITE 2104-SKY WHITE 3x6 BEVELED SUBWAY ARTIZAN TILE WALL TILE SYSTEM IN THE RESTROOM AND 6' HIGH WAINSCOT IN THE DINING AREA INSTEAD OF THE TILE SPECIFIED.
2. GENERAL CONTRACTOR TO PROVIDE AN ALTERNATE BID TO INSTALL 8"x8" ABRASIVE QUARRY TILE IN THE KITCHEN (BACK OF HOUSE) IN LIEU OF SILKAL FLOORING. INCLUDE IN THE ALTERNATE BID TO INSTALL SANDED GROUT, QUARRY TILE BASE TO MATCH FLOOR TILES AND SCHLUTER TILE TO CONCRETE TRANSITION STRIP AS REQUIRED.
3. GENERAL CONTRACTOR TO PROVIDE AN ALTERNATE BID TO INSTALL A ACCUREX HOOD PACKAGE INSTEAD OF THE CAPTIVE AIRE HOOD PACKAGE SHOWN ON THESE PLANS. CONTACT ANTHONY BEHRENDT AT (414) 899-6664. ALL DEVIATIONS FROM THE CAPTIVE AIRE PACKAGE SHALL BE FIELD COORDINATED.

PROJECT TEAM

ARCHITECT:
COMPANY NAME NATIONAL RESTAURANT DESIGNERS
CONTACT NAME GLEN LEHMANN
LICENSE NUMBER 8374
CONTACT INFORMATION 7208 ACC BLVD SECOND FLOOR RALEIGH, NC 27617 PH: (919) 544 - 0087

STRUCTURAL ENGINEER:
COMPANY NAME BRITT, PETERS and ASSOCIATES, INC
CONTACT NAME BRET UNDERWOOD
LICENSE NUMBER 037779
CONTACT INFORMATION 999 WATERSIDE DRIVE, SUITE 2202 NORFOLK, VA 23510 PH: (757) 793-0645

MECHANICAL ENGINEER:
COMPANY NAME NATIONAL RESTAURANT DESIGNERS
CONTACT NAME NELSON RAY THORNTON JR.
LICENSE NUMBER 28634
CONTACT INFORMATION 7208 ACC BLVD SECOND FLOOR RALEIGH, NC 27617 PH: (919) 544 - 0087

ELECTRICAL ENGINEER:
COMPANY NAME NATIONAL RESTAURANT DESIGNERS
CONTACT NAME NELSON RAY THORNTON JR.
LICENSE NUMBER 28634
CONTACT INFORMATION 7208 ACC BLVD SECOND FLOOR RALEIGH, NC 27617 PH: (919) 544 - 0087

PLUMBING ENGINEER:
COMPANY NAME NATIONAL RESTAURANT DESIGNERS
CONTACT NAME NELSON RAY THORNTON JR.
LICENSE NUMBER 28634
CONTACT INFORMATION 7208 ACC BLVD SECOND FLOOR RALEIGH, NC 27617 PH: (919) 544 - 0087

CIVIL ENGINEER:
COMPANY NAME TARR GROUP, LLC
CONTACT NAME KEVIN PULIS
LICENSE NUMBER -
CONTACT INFORMATION 8650 EAST STATE ROAD 32 ZIONSVILLE, IN 46077 PH: (843) 633 - 3579

HWY55 3.1 PROTOTYPE CHANGES

ADDENDUM 'D' HEIGHT BAR LOCATION DATE: 11/21/2022 SHEETS AFFECTED

Table with 2 columns: ITEM #, DESCRIPTION. Row 1: 1 UPDATED ARCHITECTURAL SITE DETAILS TO SHOW DESIRED LOCATION FOR HEIGHT RESTRICTION BAR FOR DRIVE THRU LANE. ASS01

ADDENDUM 'C' HOOD UPDATES DATE: 11/07/2022 SHEETS AFFECTED

Table with 2 columns: ITEM #, DESCRIPTION. Row 1: 1 UPDATED HOOD SHEETS. HOOD 2 INCREASED FROM 9' TO 10' LONG. M121, M502, M503, M504, M505, M506, M507, M508, M509, M601

ADDENDUM 'B' EXTERIOR SLOPED ROOF DATE: 09/26/2022 SHEETS AFFECTED

Table with 2 columns: ITEM #, DESCRIPTION. Row 1: 1 REMOVE METAL FACADE FROM SLOPED ROOF AND REPLACE WITH GRAY E.I.F.S. UPDATE ELEVATIONS, WALL SECTION AND ENLARGE DETAILS. A201, A202, A302, A303, A304, A501. Row 2: 2 COORDINATE G003 AND ID111 TILE AND GROUT TO BE SUPPLIED BY GENERAL CONTRACTOR. ID111

ADDENDUM 'A' RTU UPGRADE DATE: 07/28/2022 SHEETS AFFECTED

Table with 2 columns: ITEM #, DESCRIPTION. Row 1: 1 UPDATED HVAC DESIGN FOR THREE RTU LAYOUT. UPDATED HOOD FAN PACKAGE. A121, A161, A201, A202, ID111, M121, M161, M502, M503, M504, M505, M506, M507, M508, M601, E161, E601, P001, P112, P113, P114, P211. Row 2: 2 UPDATED HOOD PACKAGE FOR COOK LINE EQUIPMENT MODIFICATIONS. UPDATED HVAC AIR BALANCE AND LOAD CALCULATIONS. M121, M502, M503, M504, M505, M601. Row 3: 3 RELOCATED #33 AND #33B COFFEE & TEA BREWERS TO PREP AREA. INCREASED #65 AT DRIVE-THRU COOKLINE TO 24" UNIT. DRIVE-THRU HOOD INCREASED TO 12'-0". ELIMINATED JUICER AND WATER PITCHER AT ICE CREAM AREA, DELETED SHORT LOW WALL AT ICE CREAM/DRIVE-THRU HANDSINK. #8 & #9 REVISED TO #8A & #9A, 36" WIDE UNITS. A111, A402, Q111, Q600, A404

NATIONAL RESTAURANT DESIGNERS
A DIVISION OF LMHT ASSOCIATES
7208 ACC BLVD, 2ND FLOOR,
RALEIGH, NC 27617
Phone: 919.544.0087 Fax: 919.544.9089

GLEN LEHMANN
Reg. No. 8174
STATE OF NORTH CAROLINA
REGISTERED ARCHITECT

PROJECT: HIGHWAY 55
3.2 PROTOTYPE
3296 HWY 190
HAMMOND, LA 70401
DRAWING: CODE SUMMARY AND REVISION LIST

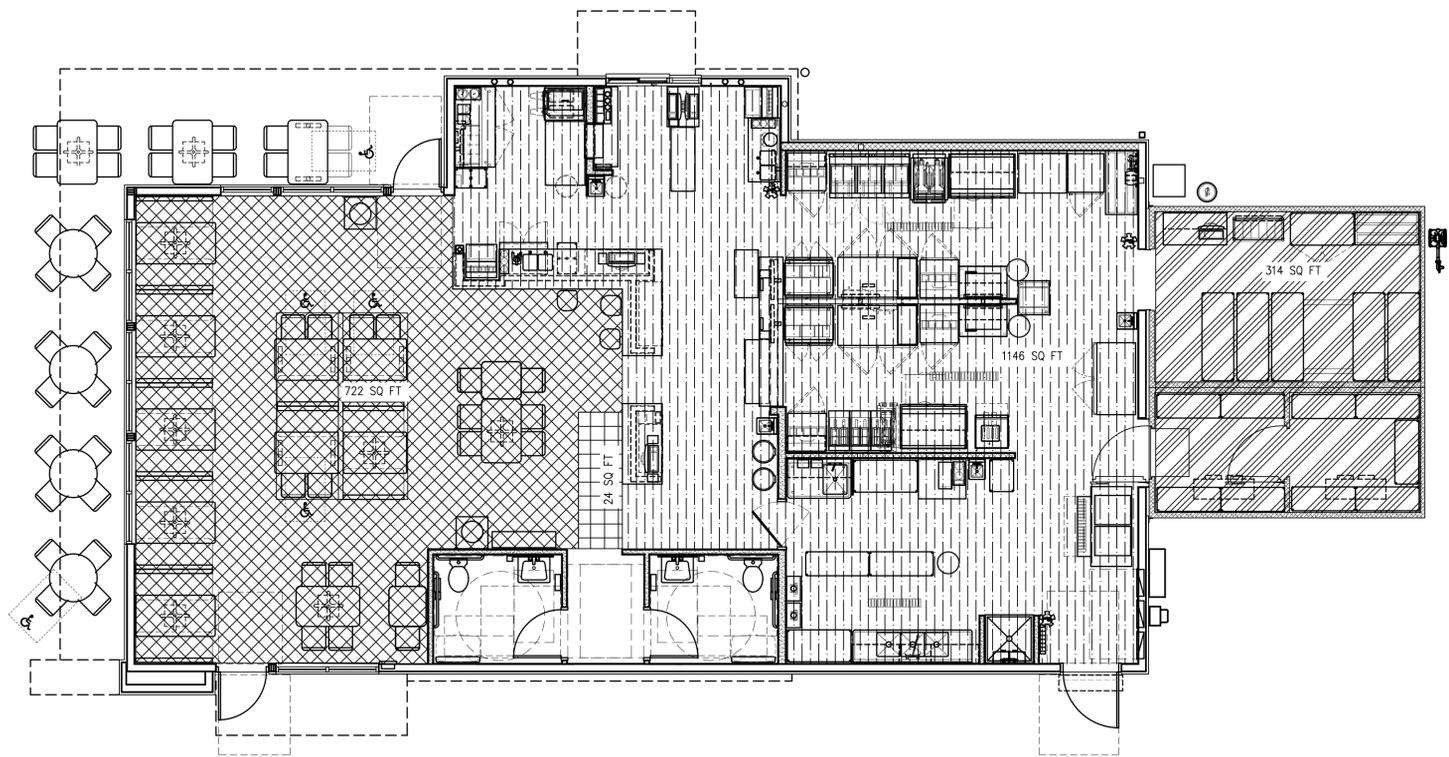
Revisions
THRU ADDENDUM "D"
11/21/2022
PROJECT DATE
06/29/2023
Drawn By
CIH
Checked By
GRL
Sheet No.
G002

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish\_6196\G003.dwg  
 Plotted by: chudson  
 Plotted Date: Jun 29, 2023 3:09pm

Responsibility Matrix+B2-N23												
Project Location: Date Updated:	Tenant (T): Landlord (LL): General Contractor (GC):				Tenant: Highway 55 Burger Shakes and Fries Landlord: Real Deal Property Group General Contractor: Real Deal General Contractor				Notes			
	T	LL	GC	Others	T	LL	GC	Others				
Div. 00 - Procurement and Contracting												
Due diligence												
Geotechnical report			X									
Environmental phase I report			X									
Survey			X									
Design												
Building			X									
Civil			X									
Landscape			X									
Site lighting			X				X					
Signs	X							X				
Div. 01 - General Requirements												
Testing / QC inspections												
Final inspections / Certificate of Occupancy			X									
Construction layout / control			X				X					
Project camera			X				X					
Final cleaning			X				X					
Div. 02 - Site Construction												
Erosion control installation / maintenance												
Site demolition / prep			X				X					
Grading / earthwork			X									
Utility taps												
Water		X					X					LL to pay for tap fees; GC to coordinate install
Sewer		X					X					LL to pay for tap fees; GC to coordinate install
Gas		X					X					LL to pay for tap fees; GC to coordinate install
Utility meters												
Water		X					X					LL to pay for meter fees; GC to coordinate install
Electric		X					X					LL to pay for meter fees; GC to coordinate install
Gas		X					X					LL to pay for meter fees; GC to coordinate install
Utility service lines												
Water		X					X					
Sewer		X					X					
Gas		X					X					
Electric		X					X					Coordinate with Utility Company. Refer to Electrical Plans
Data		X					X					Coordinate with Utility Company. Refer to Electrical Plans
Grease trap												
Sewer force main basin / pump			X				X					
Drainage systems			X				X					
Pavements												
Asphalt light duty			X				X					
Asphalt heavy duty			X				X					
Concrete			X				X					
Pavement markings / signs												
Retaining walls			X				X					
Site lighting			X				X					
Dumpster enclosure			X				X					
Fencing			X				X					Please Contact Saeger Fence Company for railing and dumpster area
Landscape			X				X					
Irrigation			X				X					
Div. 03 - Concrete												
Site concrete												
Curbs / gutter			X				X					
Building sidewalks			X				X					
Site sidewalks			X				X					
Dumpster pad			X				X					
Bollards			X				X					includes red thermoplastic bumpers
Building concrete												
			X				X					
Div. 04 - Masonry												
Site masonry												
			X				X					
Building masonry												
			X				X					
Div. 05 - Metals												
Site metals												
Building metals			X				X					
Metal support assemblies			X				X					
Stainless steel			X				X					
Trim			X				X					
Wall guards			X				X					No Stainless Steel
Div. 06 - Wood and Plastics												
Site wood and plastics												
Building wood and plastics			X				X					
Wood support assemblies			X				X					
Millwork			X				X					
Casework - FKH	X						X					#96 Trash cabinets & #97 To-Go rack

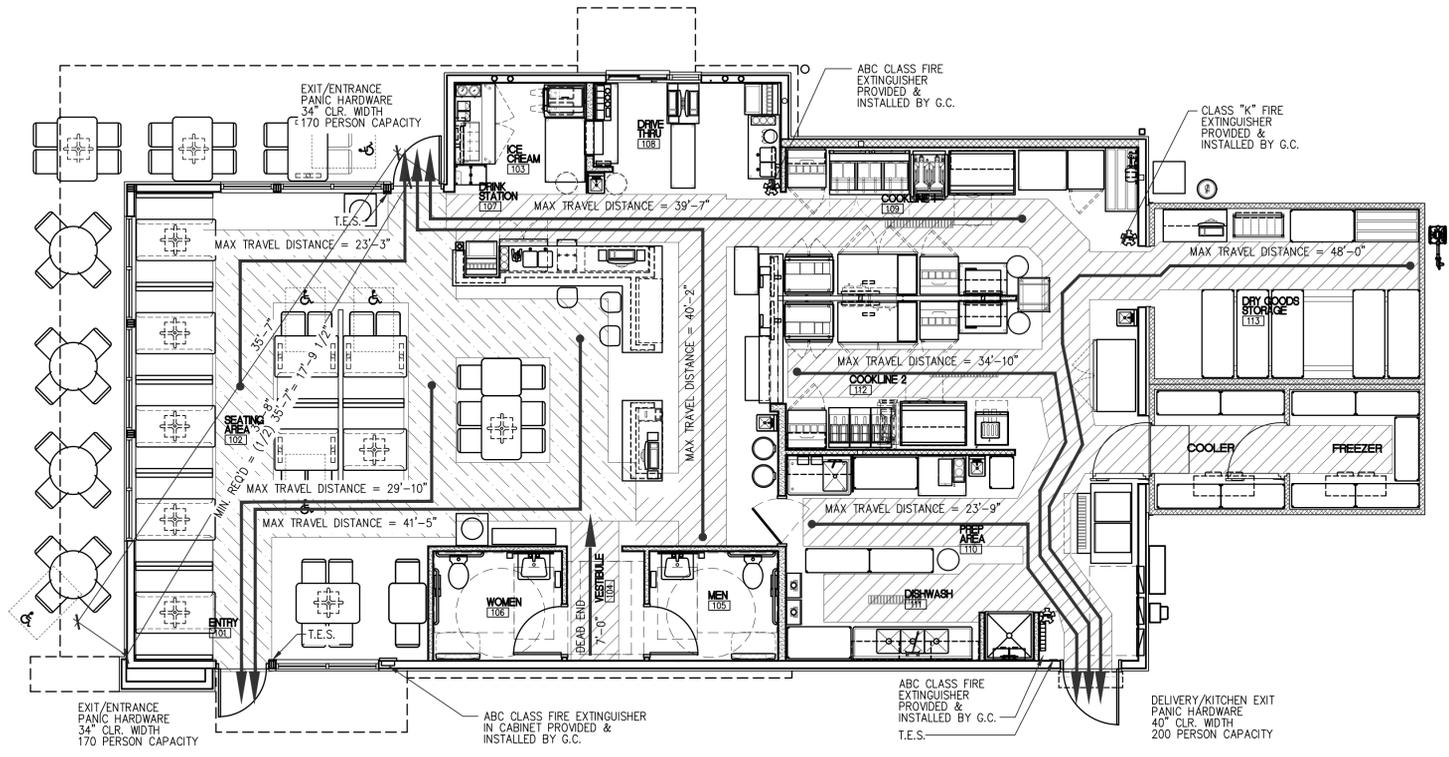
Responsibility Matrix+B2-N23												
Project Location: Date Updated:	Tenant (T): Landlord (LL): General Contractor (GC):				Tenant: Highway 55 Burger Shakes and Fries Landlord: Real Deal Property Group General Contractor: Real Deal General Contractor				Notes			
	T	LL	GC	Others	T	LL	GC	Others				
Div. 07 - Thermal and Moisture Protection												
Building thermal and moisture protection												
			X				X					
Div. 08 - Doors and Windows												
Storefront system												
			X				X					
Drive-thru window system												
			X				X					
Doors												
Storefront			X				X					
Exterior			X				X					
Interior			X				X					
Hardware												
			X				X					Includes safety equipment / signage
Div. 09 - Finishes												
Floor												
Sealed concrete / Dining			X				X					Reference Architectural plans
Quarry Tile - Service Areas			X				X					Quarry tile bid as alternate bid
Grout			X				X					If Quarry tile is selected
Sitka Flooring - Service Areas			X				X					
Transition strips			X				X					
Wall												
Wall tile			X				X					Alternate bid for marble paneling in dining area and restrooms. FRP in the drive thru and back room
Grout			X				X					
Stainless steel trim			X				X					
Paint			X				X					
Plastic laminate			X				X					
FRP board			X				X					
Stainless steel panels			X				X					
Base												
Aluminum base			X				X					
Vinyl base			X				X					
Ceiling												
Lay-in system			X				X					
Gypsum board			X				X					
EIPS			X				X					
Countertops												
			X				X					Reference Architectural drawings. Countertops ordered and installed by GC
Div. 10 - Specialties												
Site specialties												
Bike racks			X				X					Will be part of equipment package.
Mailbox			X				X					Will be part of equipment package.
Flag pole			X				X					Will be part of equipment package.
Railing			X				X					
Signs												
Monument / pylon sign			X				X					
Building signs			X				X					
Directional signs			X				X					
Interior menu board			X				X					
Freestanding branding / sign feature												
Structure			X				X					main fin sign on front of building
Prefinished aluminum wrap			X				X					Changed all that to E.I.F.S.
Logo sign			X				X					
Restroom												
Mirrors			X				X					
Accessories			X				X					see enlarged restroom plan
Partitions			X				X					
Prefabricated Canopy												
			X				X					at drive thru window
Div. 11 - Equipment												
Kitchen equipment												
Plac / set equipment			X				X					
PVC chases for kitchen equipment			X				X					
Mechanical / plumbing / electrical connections			X				X					
Walk-in cooler / freezer												
Refrigeration chase			X				X					
Cooler / freezer unit			X				X					See Equipment Drawings
Back Room equipment												
Equipment			X				X					
Casework - BCH			X				X					Employee Cubbies over Manager desk - Reference Architectural drawings
Safe			X				X					
Exterior waste oil system												
Fire extinguishers / cabinets			X				X					
Low voltage conduit for equipment. With Pull strings			X				X					
Television			X				X					
Drive-thru equipment												
Foundations			X				X					G.C. to provide and install anchor bolts
Detection loops			X				X					G.C. to provide and install detector loop
Equipment			X				X					
Inserts for menu board			X				X					

Responsibility Matrix+B2-N23												
Project Location: Date Updated:	Tenant (T): Landlord (LL): General Contractor (GC):				Tenant: Highway 55 Burger Shakes and Fries Landlord: Real Deal Property Group General Contractor: Real Deal General Contractor				Notes			
	T	LL	GC	Others	T	LL	GC	Others				
Div. 12 - Furnishings												
Furniture												
Interior seating / tables			X				X					
Exterior seating / tables			X				X					
Artwork												
			X				X					
Div. 13 - Special Construction												
Div. 14 - Conveying Systems												
Div. 15 - Mechanical/Plumbing												
Mechanical												
Package rooftop units			X				X					
Hood Package			X				X					purchased thru MCA consultants, hoods, fans, grease duct, wrap, controls/accessories.
HVAC Distribution equipment			X				X					
Plumbing												
Kitchen equipment			X				X					Fixtures and equipment per equipment drawings
Plumbing fixtures			X				X					Per plumbing schedules
Plumbing systems			X				X					
Water supply			X				X					
sewer drainage			X				X					
gas			X				X					
Div. 16 - Electrical												
Distribution												
Secondary feeders			X				X					Coordinate with Utility Company. Refer to Electrical Plans
Gear			X				X					
Fixtures			X				X					
Lay-in			X				X					
Recessed			X				X					
Hanging / pendant			X				X					
Special			X				X					Verify with tenant if needed
Emergency / exit lighting			X				X					
Wall packs			X				X					



OCCUPANCY LOAD						
BY SQUARE FOOTAGE			BY SEAT COUNT			
MARK	SPACE	S.F.	OCCUPANCY	TABLE SIZE	QUANTITY	SEAT
UNHATCHED	CIRCULATION / EXIT / TOILETS (NOT OCCUPIABLE)	-	0	4 TOP ADA TABLE	2	8
[Hatched]	QUEING- 1 PER 5 S.F.	24 S.F.	5	BOOTH - 30X48	2	8
[Cross-hatched]	MOVABLE SEATING AREA- 1 PER 15 S.F.	722 S.F.	49	BOOTH - 30X60	5	25
[Diagonal lines]	OFFICE - 1 PER 100 S.F.	0 S.F.	0	2 TOP TABLE 28X30	2	4
[Vertical lines]	KITCHEN / FOOD PREP / SERVING - 1 PER 200 S.F.	1146 S.F.	6	BAR STOOL		3
[Horizontal lines]	STORAGE AREA - 1 PER 300 S.F.	314 S.F.	2	4 TOP TABLE	2	8
				TABLE TOTAL	13	56
				EMPLOYEES		9
				QUEING		5
TOTAL:						70
<b>WORST CASE TOTAL = 70</b>						
HANDICAP REQUIRED - INTERIOR SEATING: 56 x 5% = 2.8 (3) PROVIDED				OUTSIDE SEATING	7	28
EXTERIOR SEATING: 28 x 5% = 1.4 (2) PROVIDED				TOTAL PLUMBING LOAD:		98

**1 OCCUPANCY PLAN**  
 G111 SCALE: 3/16" = 1'-0"



### EXIT REQUIREMENTS

TRAVEL DISTANCE TO EXIT- MAX ALLOWED= 200'  
 ACTUAL= 46'-2" MAX.

EXITS REQUIRED = 2

DISTANCE BETWEEN EXITS--  
 - REQUIRED (1/2 DIAGONAL) = 22'-11" MIN.  
 ACTUAL = 38'-3"

MAX. DEAD END = 20'-0"  
 ACTUAL = 7'-0"

EXIT WIDTH (0.2/PER OCCUPANT)  
 REQUIRED:  
 70x0.2 = 14.0'  
 50% THRU FRONT = 7.0'

PROVIDED:  
 PUBLIC (2) 36"=34" (CLEAR)=68"  
 EMPLOYEE (1) 42"=40" (CLEAR)=40"  
 114"=108" (CLEAR)=108"

THRU FRONT = 34" (CLEAR)

---

### LEGEND

[Hatched] 36" WIDE EGRESS PATH (UNDER 50)

[Diagonal lines] 44" WIDE EGRESS PATH (UNDER 50)

[Arrow] EGRESS TRAVEL PATH

[T.E.S.] TACTILE EXIT SIGN - SEE DETAIL

**2 LIFE SAFETY PLAN**  
 G111 SCALE: 3/16" = 1'-0"

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: OCCUPANCY AND LIFE SAFETY PLAN

Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CIH
Checked By	GRL
Sheet No.	<b>G111</b>

**GENERAL**

- A. USE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND SHOP DRAWINGS.
- B. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONTRACT DOCUMENTS AND LATEST ADDENDA, AS WELL AS, SUBMITTING TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO SUBMITTING SHOP DRAWINGS.
- C. DO NOT SCALE DRAWINGS OR AUTO-DIMENSION ELECTRONIC FILES. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES IN WRITING PRIOR TO FABRICATION OR CONSTRUCTION.
- D. COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN DISCIPLINES, AND WITHIN A GIVEN DISCIPLINE, TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION.
- E. IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, GOVERNS.
- F. COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO, OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE ARCHITECTURAL, PLUMBING, ELECTRICAL, AND MECHANICAL PLANS.
- G. VERIFY ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER EXISTING CONDITIONS. NOTIFY THE ARCHITECT AND ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DURING THE CONSTRUCTION PROCESS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT REMAIN. THE SHORING AND BRACING SHOWN (IF ANY) IS A PARTIAL AND SCHEMATIC REPRESENTATION. DETERMINE THE ERECTION PROCEDURE TO ENSURE THE STABILITY AND SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION.
- H. THE COMPLETED LATERAL-FORCE RESISTING SYSTEMS (LFRS), INCLUDING THE DIAPHRAGMS, ARE REQUIRED TO RESIST LATERAL LOADS AND PROVIDE STABILITY UNDER GRAVITY LOADS. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER.
- I. UNLESS NOTED OTHERWISE, DETAILS SHOWN ARE TYPICAL FOR ALL SIMILAR CONDITIONS.
- J. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS, AS WELL AS SAFETY PRECAUTIONS AND PROGRAMS.
- K. BRITT, PETERS & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR ACTS OR OMISSION OF THE CONTRACTOR, NOR FAILURE TO PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- L. THE BUILDING OWNER IS RESPONSIBLE FOR PERIODIC MAINTENANCE TO ENSURE STRUCTURAL INTEGRITY. MAINTENANCE INCLUDES, BUT IS NOT LIMITED TO, STEEL/CONCRETE COATINGS, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND CLEANING OF EXPOSED STRUCTURAL ELEMENTS.

**DESIGN CRITERIA**

- A. STRUCTURAL DRAWINGS ARE BASED ON THE REQUIREMENTS OF THE UNIFORM CONSTRUCTION CODES AND AMENDMENTS OF LOUISIANA 2023 AND THE 2021 INTERNATIONAL BUILDING CODE, AND THE REFERENCED SECTIONS WITHIN.
- B. DEAD LOADS:
  - 1. ROOF SYSTEMS:
    - a. WOOD (20 PSF TOTAL)
      - 1. STRUCTURE 6 PSF
      - 2. MEP 4 PSF
      - 3. INSULATION AND ROOFING 10 PSF
- C. LIVE LOADS:
  - 1. LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD OR THE CONCENTRATED LOAD LISTED ACTING OVER A 6.25 SQUARE FOOT AREA. LIVE LOADS HAVE BEEN REDUCED AS PRESCRIBED IN THE AFOREMENTIONED BUILDING CODE.

**LIVE LOADS**

CATEGORY	UNIFORM LOAD (PSF)	CONCENTRATED LOAD (LBS)
ROOFS: ALL ROOF SURFACES SUBJECT TO WORKERS		300
ROOFS: ORDINARY ROOF	20	

- D. DESIGN SNOW LOADS:
  - 1. GROUND SNOW LOAD: P<sub>g</sub> 0 PSF
  - 2. FLAT ROOF SNOW LOAD: P<sub>f</sub> 0 PSF
  - 3. SNOW EXPOSURE FACTOR: C<sub>e</sub> 1.0
  - 4. SNOW THERMAL FACTOR: C<sub>t</sub> 1.0
  - 5. SLOPE FACTOR: C<sub>s</sub> 1.0
  - 6. SNOW IMPORTANCE FACTOR: I<sub>s</sub> 1.0
- E. DESIGN WIND LOADS:
  - 1. BASIC WIND SPEED: V<sub>ULT</sub> 125 MPH (3-SEC GUST)
  - 2. BASIC WIND SPEED: V<sub>ASD</sub> 100 MPH (3-SEC GUST)
  - 3. RISK CATEGORY: II
  - 4. WIND EXPOSURE: B
  - 5. INTERNAL PRESSURE COEFF: GC<sub>PI</sub> ±0.18
  - 6. COMPONENTS & CLADDING WIND PRESSURES (ULTIMATE):

Ultimate Design Wind Pressure (psf):									
Effective Wind Area (sq ft)									
		10	20	50	100	200	500		
Interior	Zone 4	+	21.1	20.2	18.9	18.0	17.1	16.0	
		-	-22.9	-21.9	-20.7	-19.8	-18.8	-17.6	
Edge	Zone 5	+	21.1	20.2	18.9	18.0	17.1	16.0	
		-	-28.1	-26.3	-23.8	-21.9	-20.1	-17.6	
<b>Roof:</b>		<b>10</b>	<b>20</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>		
Interior	Zone 1	+	16.0	16.0	16.0	16.0	16.0	16.0	
		-	-36.7	-34.3	-31.1	-28.7	-26.3	-23.1	
Interior	Zone 1'	+	16.0	16.0	16.0	16.0	16.0	16.0	
		-	-21.1	-21.1	-21.1	-21.1	-18.2	-16.0	
Edge	Zone 2	+	21.1	20.2	18.9	18.0	17.1	16.0	
		-	-48.5	-45.3	-41.2	-38.1	-35.0	-30.9	
Corner	Zone 3	+	21.1	20.2	18.9	18.0	17.1	16.0	
		-	-48.5	-45.3	-41.2	-38.1	-35.0	-30.9	
<b>Overhang:</b>		<b>10</b>	<b>20</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>		
Edge	Zone 2	+	21.1	20.2	18.9	18.0	17.1	16.0	
		-	-44.9	-40.8	-35.3	-31.1	-27.0	-21.5	
Corner	Zone 3	+	21.1	20.2	18.9	18.0	17.1	16.0	
		-	-62.5	-55.3	-45.6	-38.4	-31.1	-21.5	
<b>Parapet:</b>		<b>10</b>	<b>20</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>		
Edge	Zone 2	+	80.3	75.1	68.2	63.0	57.8	50.9	
		-	-47.4	-45.0	-41.9	-39.4	-37.0	-33.9	
Corner	Zone 3	+	80.3	75.1	68.2	63.0	57.8	50.9	
		-	-54.2	-50.6	-45.8	-42.2	-38.6	-33.9	

WIDTH OF ZONE, A = 4'-0"

- F. SEISMIC LOADS:
  - 1. RISK CATEGORY: II
  - 2. SEISMIC IMPORTANCE FACTOR: I<sub>e</sub> 1.0
  - 3. SHORT PERIOD SPECTRAL RESPONSE ACCELERATION: S<sub>s</sub> 0.090 g
  - 4. 1-SEC PERIOD SPECTRAL RESPONSE ACCELERATION: S<sub>1</sub> 0.059 g
  - 5. SITE CLASS: D
  - 6. SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION: S<sub>05</sub> 0.096 g
  - 7. 1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION: S<sub>01</sub> 0.094 g
  - 8. SEISMIC DESIGN CATEGORY: A
  - 9. BASIC SEISMIC-FORCE RESISTING SYSTEM: LIGHT FRAMED WOOD SHEAR WALLS
  - 10. DESIGN BASE SHEAR: V 2 K
  - 11. SEISMIC RESPONSE COEFFICIENT: C<sub>s</sub> 0.01
  - 12. RESPONSE MODIFICATION FACTOR: R 6.5
  - 13. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

**FOUNDATIONS**

- A. AN ALLOWABLE BEARING CAPACITY OF 2,000 PSF WAS UTILIZED FOR FOUNDATION DESIGN PER THE GEOTECHNICAL ENGINEERING REPORT, "GEOTECHNICAL ENGINEERING REPORT, HWY 55 RESTAURANT - HAMMOND, LA" BY ECS SOUTHEAST LLP DATED APRIL 21ST, 2023 ECS #65-1349.
- B. ALL SOILS WORK, INCLUDING BACKFILL OF UTILITY TRENCHES AND THE VERIFICATION OF BEARING CAPACITY MUST BE UNDER THE DIRECTION OF A QUALIFIED GEOTECHNICAL ENGINEER. PROXIMITY OF UTILITY TRENCHES TO BUILDING FOUNDATION SYSTEM MUST BE AS APPROVED BY THE GEOTECHNICAL ENGINEER TO ENSURE INTEGRITY OF THE BEARING SOILS.
- C. ALL FOUNDATIONS BEAR ON UNDISTURBED EARTH OR ENGINEERED FILL AT ELEVATIONS SHOWN ON PLANS AND DETAILS. COORDINATE FINAL TOP OF FOOTING ELEVATIONS WITH THE ARCHITECTURAL ELEVATIONS, MEP DRAWINGS AND CIVIL GRADING PLANS PRIOR TO PLACEMENT. FOUNDATION STEPS INDICATED ARE APPROXIMATE, UNLESS NOTED OTHERWISE, AND MUST BE FIELD COORDINATED. THE BOTTOM OF EXTERIOR FOUNDATION ELEVATIONS MUST BE BELOW THE FROST DEPTH ELEVATION 16" MEASURED FROM EXTERIOR FINISHED GRADE.
- D. BEAR FLOOR SLABS ON 4 INCH MINIMUM DRAINAGE COURSE (COMPACTED STONE) UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT OR DRAWINGS. PLACE THE VAPOR RETARDER BETWEEN THE DRAINAGE COURSE AND THE SLAB. VAPOR RETARDER IS ASTM E1745, CLASS B, 10 MIL UNLESS NOTED OTHERWISE. PLACE, PROTECT AND REPAIR PER ASTM E1845 AND MANUFACTURER'S INSTRUCTIONS.
- E. DO NOT INSTALL FOUNDATION CONCRETE UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. NOTIFY THE ENGINEER OF ALL CONFLICTS BETWEEN FOUNDATIONS AND UTILITIES.
- F. ALL FOUNDATIONS, OR PORTIONS THEREOF BELOW GRADE, MAY BE EARTH FORMED BY NEAT EXCAVATIONS. DO NOT PLACE FOUNDATIONS, SLABS, OR OTHER CONCRETE ON FROZEN SUBGRADE OR IN STANDING WATER.
- G. CENTER ALL FOUNDATIONS ON WALLS AND/OR COLUMNS, UNLESS NOTED OTHERWISE.

**CONCRETE**

- A. CONCRETE MUST CONFORM TO THE CONCRETE PROPERTIES SPECIFIED IN THE CONCRETE PROPERTIES TABLE.
- B. CONCRETE MUST HAVE ALLOWABLE UNIT SHRINKAGE OF 0.045% AT 28 DAYS. (SEE ASTM C157)
- C. SLABS TO RECEIVE MOISTURE SENSITIVE FLOOR COVERINGS MUST HAVE MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO OF 0.45.
- D. CONCRETE CONSTRUCTION MUST CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
- E. CONCRETE MATERIALS MUST CONFORM TO THE FOLLOWING SPECIFICATIONS:
  - 1. PORTLAND CEMENT: ASTM C150, TYPE I OR II
  - 2. AGGREGATE (NORMAL WEIGHT): ASTM C33
- F. ALL REINFORCEMENT MUST CONFORM TO THE FOLLOWING SPECIFICATIONS:
  - 1. ALL REINFORCING, UNO: ASTM A615 GRADE 60
  - 2. WELDED WIRE REINFORCEMENT (WWR):
    - a. SMOOTH WIRE: ASTM A1064 (65 KSI)
    - b. POLYPROPYLENE FIBRILLATED FIBER MAY BE USED TO SUBSTITUTE WWR IN SLABS ON GRADE WHEN ADDED TO CONCRETE MIX ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDED DOSAGES.
    - c. STEEL AND POLYPROPYLENE FIBER BLEND MAY BE USED TO SUBSTITUTE WWR IN SLABS ON COMPOSITE DECK WHEN ADDED TO CONCRETE MIX IN ACCORDANCE WITH THE LATEST VERSION OF THE SPECIFICATION FOR COMPOSITE STEEL FLOOR DECK (ANSI/SI C) BY THE STEEL DECK INSTITUTE (STEEL FIBERS HAVE 80 PSI RESIDUAL STRENGTH WHEN TESTED IN ACCORDANCE WITH ASTM C 1399).
- G. REINFORCEMENT DETAILING:
  - 1. DETAIL AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI 315.
  - 2. DEVELOPMENT AND SPLICE LENGTHS ARE IN TENSION UNLESS NOTED OTHERWISE. REFER TO THE REINFORCING BAR LAP LENGTH SCHEDULE ON THE TYPICAL DETAIL SHEETS.
  - 3. LAP WWR ONE CROSSWIRE SPACING PLUS 2".
  - 4. INSTALL CORNER BARS AT ALL FOOTINGS AND WALL INTERSECTIONS TO MATCH HORIZONTAL REINFORCING SIZE AND SPACING. AT INTERSECTIONS OF CONTINUOUS SPREAD FOOTINGS, EXTEND ALL BARS TO FAR SIDE OF INTERSECTING FOOTING.
  - 5. INSTALL AND SECURE REINFORCEMENT TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. PROVIDE THE FOLLOWING CONCRETE COVER FOR REINFORCING (ACI 318 SECTION 7.7 AND IBC TABLE 720.1), UNLESS SPECIFICALLY NOTED OTHERWISE:
    - a. CAST AGAINST EARTH: 3"
  - 6. INSTALL DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED, UNLESS NOTED OTHERWISE.
- H. CAST FOOTINGS IN ALTERNATE PANELS NOT TO EXCEED 60'-0" IN LENGTH. INSTALL SHEAR KEYS AT EACH CONSTRUCTION JOINT AND LOCATED AT 1/3 POINTS OF SPANS.
- I. DO NOT USE HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS UNLESS SHOWN ON THE DRAWINGS. THE ENGINEER MUST APPROVE ALL DEVIATIONS OR ADDITIONAL JOINTS IN WRITING.
- J. CAST SLABS MONOLITHICALLY UNLESS NOTED OTHERWISE.
- K. CHAMFER ALL PERMANENTLY EXPOSED CONCRETE EDGES 3/4 INCH, UNLESS NOTED OTHERWISE.
- L. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS AND SLEEVES IN CONCRETE WALLS. SPREAD REINFORCEMENT AT OPENINGS AND SLEEVES UNLESS OTHERWISE INDICATED. DO NOT CUT REINFORCEMENT.
- M. SLOPE CONCRETE SLABS TO FLOOR DRAINS SHOWN ON MECHANICAL, PLUMBING, CIVIL AND ARCHITECTURAL DRAWINGS.
- N. BOND NEW CONCRETE TO HARDENED CONCRETE WITH A STRUCTURAL ADHESIVE BONDING AGENT PER ASTM C1059. INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.
- O. NO HOLES OR OPENINGS THROUGH FOUNDATION WALLS AND/OR FOOTINGS WITHOUT ENGINEER'S APPROVAL.
- P. DO NOT EMBED ALUMINUM IN CONCRETE.

**CONCRETE PROPERTIES**

USAGE	STRENGTH (PSI)	TYPE	COMMENTS	DURABILITY CLASSIFICATION
ALL CONCRETE NOT OTHERWISE SPECIFIED	4000	NWT		F0, S0, W0, C1
FOOTINGS	3000	NWT		F0, S0, W0, C1
SLAB-ON-GRADE INTERIOR	3500	NWT		F0, S0, W0, C0

**CONCRETE PROPERTIES TABLE NOTES:**

- 1. MINIMUM STRENGTH AND MAXIMUM DENSITY MEASURED AT 28 DAYS.
- 2. NWT = NORMAL WEIGHT CONCRETE
- 3. DURABILITY CLASSIFICATION INDICATES CONCRETE REQUIREMENTS BY EXPOSURE CLASS, REFER TO TABLE 19.3.2.1 OF ACI 318.

**ROUGH CARPENTRY**

- A. GENERAL
  - 1. LUMBER:
    - a. GRADING PER DOC PS 20 AND APPLICABLE GRADING AGENCY RULES.
    - 1. FACTORY MARK EACH PIECE WITH GRADING AGENCY GRADE STAMP.
    - b. MAXIMUM MOISTURE CONTENT: 19%
    - c. PROTECT MATERIALS FROM WEATHER
    - d. SORT AND SELECT LUMBER SO NATURAL CHARACTERISTICS DO NOT INTERFERE WITH INSTALLATION OR FASTENING.
    - e. PASS PLUMBING AND CONDUIT THROUGH HOLES, NOT NOTCHES, IN STUDS, SILLS AND PLATES. CENTER HOLES IN THE MEMBER DEPTH. USE GALVANIZED NAIL STOPPERS (16 GAGE MIN.) ON BOTH FACES OF BORED MEMBERS IN ACCORDING WITH THE GOVERNING PLUMBING/ELECTRICAL CODE.
  - 2. PRESERVATIVE-TREATED (PT):
    - a. PRESERVATIVE TREATMENT PROCESS: AWPA U1
      - 1. CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND
      - 2. CATEGORY UC3b FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND
      - 3. CATEGORY UC4a FOR ITEMS IN CONTACT WITH GROUND
      - 4. CHEMICALS USED MUST BE ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND NOT CONTAIN ARSENIC, CHROMIUM, NOR AMMONIA-CAL COPPER ZINC ARSENATE (ACZA). DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
    - b. KILN-DRY AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
    - c. MARK LUMBER WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY THE ALSB BOARD.
    - d. UNLESS NOTED OTHERWISE, INSTALL PT LUMBER AS FOLLOWS:
      - 1. EXTERIOR LOCATIONS
      - 2. WOOD MEMBERS IN CONTACT WITH MASONRY, MORTAR, GROUT OR CONCRETE
      - 3. WOOD FRAMING MEMBERS LESS THAN 18 INCHES ABOVE GROUND IN CRAWLSPACES OR UNEXCAVATED AREAS.
- B. DIMENSIONAL LUMBER
  - 1. UNLESS NOTED OTHERWISE: SOUTHERN PINE NO 2 OR BETTER
  - 2. EXTERIOR WALLS: SOUTHERN PINE NO 2 OR BETTER
  - 3. INTERIOR LOAD BEARING WALLS: SOUTHERN PINE NO 2 OR BETTER
- C. ENGINEERED LUMBER AND STRUCTURAL COMPOSITE LUMBER (SCL)
  - 1. INSTALL ENGINEERED WOOD PRODUCTS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. FOLLOW MANUFACTURER INSTRUCTIONS FOR MULTIPLY FASTENING AS WELL AS LIMITS ON HOLE SIZES AND LOCATIONS.
  - 2. SIZES INDICATED ARE NET DIMENSIONS.
  - 3. LAMINATED-VENEER LUMBER (LVL):
    - a. STRUCTURAL CAPACITIES IN ACCORDANCE WITH ASTM D5456
    - b. ALLOWABLE UNIT STRESSES FOR DRY CONDITIONS AS FOLLOWS:
      - 1. EXTREME FIBER STRESS IN BENDING, EDGEWISE: 2,600 PSI
      - 2. MODULUS OF ELASTICITY, EDGEWISE: 2,000,000 PSI
- D. FASTENERS
  - 1. NAILS, BRADS, AND STAPLES: ASTM F1667
  - 2. FASTENERS USED IN PRESERVATIVE-TREATED OR FIRE-TREATED LUMBER ARE GALVANIZED TO ASTM STANDARD B695 - CLASS 55, OR A153 - CLASS D.
  - 3. FASTENERS USED IN PROXIMITY TO SALTWATER SPRAY ARE MANUFACTURED FROM TYPE 316 STAINLESS STEEL OR HOT DIP GALVANIZED.
  - 4. AS A MINIMUM, FASTEN ALL WOOD FRAMING TO COMPLY WITH THE "FASTENING SCHEDULE" OF THE REFERENCED BUILDING CODE AND THE ICC-ES EVALUATION REPORT FOR FASTENERS.
  - 5. USE STEEL COMMON NAILS UNLESS NOTED OTHERWISE.
  - 6. STAGGER FASTENERS TO PREVENT SPLITTING, INCLUDING PARALLEL TO GRAIN SPLITTING.
  - 7. FASTEN MULTI-PLY MEMBERS TOGETHER USING (3) ROWS OF 16d NAILS AT 12 INCHES OC, UNLESS NOTED OTHERWISE.
- E. CONNECTORS
  - 1. INSTALL CONNECTORS COMPLYING WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL FASTENERS THROUGH EACH FASTENER HOLE, UNLESS NOTED OTHERWISE.
  - 2. CONNECTORS INDICATED ARE MANUFACTURED BY SIMPSON STRONG-TIE, INC. CONNECTORS BY OTHER MANUFACTURERS MAY BE USED IF THE LOAD CAPACITY IS EQUAL TO OR GREATER THAN THE CONNECTOR SPECIFIED. USE MANUFACTURER'S RECOMMENDED FASTENERS, UNLESS NOTED OTHERWISE.
  - 3. CONNECTORS HAVE A MINIMUM CORROSION PROTECTION OF G90 GALVANIZATION COMPLYING WITH ASTM A653.
  - 4. CONNECTORS IN CONTACT WITH PRESSURE TREATED OR FIRE TREATED LUMBER ARE MANUFACTURED FROM SIMPSON ZMAX (G185 GALVANIZED) STEEL COMPLYING WITH ASTM A653.
  - 5. CONNECTORS IN PROXIMITY TO SALTWATER SPRAY ARE MANUFACTURED FROM TYPE 316 STAINLESS STEEL OR HOT DIP GALVANIZED TO ASTM STANDARD A123 - CLASS C.
- F. ERECTION TOLERANCES
  - 1. FRAMING MEMBERS COVERED BY FINISHES SUCH AS WALLBOARD, PLASTER OR CERAMIC TILE SET IN A MORTAR SETTING BED, MUST BE WITHIN THE FOLLOWING LIMITS:
    - a. LAYOUT OF WALLS AND PARTITIONS: 1/4 INCH FROM THE INTENDED POSITION
    - b. PLATES AND RUNNERS: 1/4 INCH IN 8 FEET FROM A STRAIGHT LINE
    - c. STUDS: 1/4 INCH IN 8 FEET OUT OF PLUMB, NOT CUMULATIVE
    - d. FACE OF FRAMING MEMBERS: 1/4 INCH IN 8 FEET FROM A TRUE PLANE
  - 2. FRAMING MEMBERS COVERED BY CERAMIC TILE SET IN DRY-SET MORTAR, LATEX-PORTLAND CEMENT MORTAR OR ORGANIC ADHESIVE MUST BE WITHIN THE FOLLOWING LIMITS:
    - a. LAYOUT OF WALLS AND PARTITIONS: 1/4 INCH FROM THE INTENDED POSITION
    - b. PLATES AND RUNNERS: 1/8 INCH IN 8 FEET FROM A STRAIGHT LINE
    - c. STUDS: 1/8 INCH IN 8 FEET OUT OF PLUMB, NOT CUMULATIVE
    - d. FACE OF FRAMING MEMBERS: 1/8 INCH IN 8 FEET FROM A TRUE PLANE
- G. WALL CONSTRUCTION
  - 1. UNLESS NOTED OTHERWISE USE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATES USING 2x MEMBERS WITH WIDTHS EQUAL TO THE WALL STUDS. FASTEN PLATES TO SUPPORTING CONSTRUCTION. SPLICE TOP PLATES WITHIN THE CENTER THIRD OF THE TOTAL WALL LENGTH WITH A 4 FOOT MINIMUM LAP, UNLESS NOTED OTHERWISE.
  - 2. EXTERIOR WALLS: 2x6 STUDS AT 16 INCHES OC MAX SPACING, UNLESS NOTED OTHERWISE
  - 3. INTERIOR WALLS: 2x6 STUDS AT 16 INCHES OC MAX SPACING, UNLESS NOTED OTHERWISE
  - 4. INSTALL HORIZONTAL BLOCKING AT WALL MIDHEIGHT. BLOCKING IS 2x MEMBERS WITH WIDTHS EQUAL TO THE STUDS.
  - 5. CONSTRUCT CORNERS AND INTERSECTIONS WITH THREE OR MORE STUDS.
  - 6. FRAME WALL OPENINGS WITH MULTIPLE JAMBS STUDS AND HEADERS AS INDICATED. INSTALL HEADER MEMBERS WITH THICKNESS EQUAL TO WIDTH OF THE WALL STUDS.

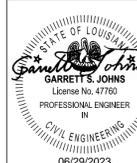


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06/29/2023

PROJECT: **HIGHWAY 55**  
3.2 SHELL PROTOTYPE

3236 HWY 190  
HAMMOND, LA 70401

DRAWING: **GENERAL NOTES**

**Revisions**

THRU ADDENDUM "D"  
11/21/2022

PROJECT DATE  
06/28/2023

Drawn by  
EGS

Checked by  
SDH

Sheet No.

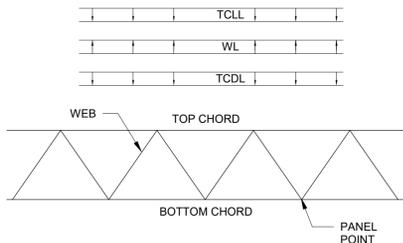
**S1.1**

**WOOD SHEATHING**

- A. GENERAL
- WOOD SHEATHING REFERS TO WOOD STRUCTURAL PANELS, OF EITHER PLYWOOD OR ORIENTED STRAND BOARD (OSB).
  - WOOD SHEATHING IS APA-RATED SHEATHING, COMPLYING WITH PRODUCT STANDARD DCC PS1 OR DOC PS2. WOOD SHEATHING MANUFACTURER MUST BE A MEMBER OF THE AMERICAN PLYWOOD ASSOCIATION (APA).
  - PROTECT WOOD SHEATHING FROM WEATHER AND PROVIDE FOR AIR CIRCULATION AROUND STACKS AND UNDER COVERINGS.
  - PANELS MUST HAVE FACTORY MARKS INDICATING COMPLIANCE WITH APPLICABLE STANDARDS.
  - THICKNESS NOT LESS THAN INDICATED, AND AS REQUIRED TO COMPLY WITH SPECIFIED REQUIREMENTS.
  - INSTALL SHEATHING WITH THE STRENGTH DIRECTION (TYPICALLY LONG DIMENSION) PERPENDICULAR TO FRAMING AND WITH END JOINTS STAGGERED.
  - DO NOT USE MATERIALS WITH DEFECTS IMPAIRING THE QUALITY OF SHEATHING OR PIECES TOO SMALL TO USE WITH MINIMUM NUMBER OF JOINTS. LAYOUT PANELS TO SPAN BETWEEN AT LEAST THREE SUPPORT MEMBERS.
  - COORDINATE SHEATHING INSTALLATION WITH FLASHING AND JOINT SEALANT INSTALLATION SO MATERIALS ARE INSTALLED IN A SEQUENCE AND MANNER PREVENTING EXTERIOR MOISTURE FROM PASSING THROUGH THE COMPLETED ASSEMBLY.
  - DO NOT BRIDGE BUILDING EXPANSION JOINTS.
  - WHERE EITHER 2 INCH OR 2 1/2 INCH FASTENER SPACINGS ARE SPECIFIED TO 2 INCH OR LESS FRAMING MEMBERS, THE FRAMING MEMBER AT ADJOINING PANEL EDGES MUST BE 2 1/2 INCH WIDE OR GREATER. STAGGER FASTENERS AT PANEL EDGES IN TWO LINES.
- B. PRESERVATIVE-TREATED (PT):
- PRESERVATIVE TREATMENT PROCESS: AWWA U1
    - CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND
    - CATEGORY UC3 FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND
    - CATEGORY UC4 FOR ITEMS IN CONTACT WITH GROUND
    - CHEMICALS USED MUST BE ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND NOT CONTAIN ARSENIC, CHROMIUM, NOR AMMONIA-CAL COPPER ZINC ARSENATE (ACZA).
  - MARK SHEATHING WITH APPROPRIATE CLASSIFICATION MARKING OF AN INSPECTION AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
  - UNLESS NOTED OTHERWISE, INSTALL PT SHEATHING IN CONTACT WITH MASONRY, MORTAR, GROUT OR CONCRETE, OR, WHEN USED WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATER PROOFING.
- C. WALL SHEATHING
- SPAN RATING: NOT LESS THAN 32/16
  - NOMINAL THICKNESS: NOT LESS THAN 1/2 INCH
  - EXPOSURE AND DURABILITY CLASSIFICATION: EXPOSURE 1
  - FASTENING METHOD, UNLESS NOTED OTHERWISE:
    - FASTENERS: 10d RING SHANK NAILS
    - BOUNDARY EDGE SPACING: 6 INCHES OC
    - PANEL EDGE SPACING: 6 INCHES OC
    - FIELD SPACING: 12 INCHES OC
  - REFERENCE SHEARWALL DETAILS FOR SHEARWALL SHEATHING FASTENING, BLOCKING AND OTHER DETAILS.
- D. ROOF SHEATHING
- SPAN RATING: NOT LESS THAN 40/20
  - NOMINAL THICKNESS: NOT LESS THAN 5/8 INCH
  - EXPOSURE AND DURABILITY CLASSIFICATION: EXPOSURE 1
  - FASTENING METHOD, UNLESS NOTED OTHERWISE:
    - FASTENERS: 8d RING SHANK NAILS
    - BOUNDARY EDGE SPACING: 4 INCHES OC
    - PANEL EDGE SPACING: 6 INCHES OC
    - FIELD SPACING: 12 INCHES OC
  - UNLESS NOTED OTHERWISE, INSTALL BLOCKING AT ALL SHEATHING EDGES AND FASTEN SHEATHING EDGES TO BLOCKING ACCORDING TO PANEL EDGE SPACING.
- E. FASTENERS
- AS A MINIMUM, FASTENING TO COMPLY WITH THE "FASTENING SCHEDULE" OF THE REFERENCED BUILDING CODE AND THE ICC-ES EVALUATION REPORT FOR FASTENERS.
  - USE STEEL COMMON NAILS INTO WOOD FRAMING AND SCREWS INTO COLD-FORMED METAL FRAMING, UNLESS NOTED OTHERWISE.
  - NAILS, BRADS, AND STAPLES: ASTM F1667.
  - SCREWS FOR FASTENING SHEATHING TO WOOD FRAMING: ASTM C1002.
  - SCREWS FOR FASTENING SHEATHING TO COLD-FORMED METAL FRAMING: ASTM C954, EXCEPT WITH WAFER HEADS (MIN HEAD DIA=0.333 INCHES) AND REAMER WINGS, LENGTH AS RECOMMENDED BY SCREW MANUFACTURER.
  - FOR ROOF, PARAPET, AND WALL SHEATHING, USE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A153 OR TYPE 304 STAINLESS STEEL.
  - FOR ROOF, PARAPET, AND WALL SHEATHING WITH ORGANIC-POLYMER OR OTHER CORROSION-PROTECTION COATINGS, USE FASTENERS WITH A SALT-SPRAY RESISTANCE OF MORE THAN 800 HOURS ACCORDING TO ASTM B117.

**PREFABRICATED WOOD TRUSSES**

- DESIGN TRUSSES IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (NDS) AND ITS "SUPPLEMENT", AS WELL AS THE TRUSS PLATE INSTITUTE (TPI), DESIGN TRUSSES FOR THE DESIGN CRITERIA INDICATED.
- FABRICATE, INSTALL AND BRACE TRUSSES IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI).
- SUBMIT SHOP DRAWINGS AND CALCULATIONS SEALED BY REGISTERED PROFESSIONAL ENGINEER, INCLUDING TRUSS LAYOUT, TRUSS PROFILES, INSTALLATION INSTRUCTIONS, DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. DESIGN TRUSSES USING "PIN" CONNECTION AT ONE SUPPORT AND "ROLLER" CONNECTION AT OTHER SUPPORT LOCATIONS. "PIN" IS DEFINED AS A SUPPORT RESISTING VERTICAL AND HORIZONTAL LOADS. "ROLLER" IS DEFINED AS RESISTING ONLY VERTICAL LOADS. DO NOT FABRICATE TRUSSES UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED AND RETURNED. DESIGN TRUSSES TO BEAR ONLY ON THE STRUCTURAL SUPPORT MEMBERS INDICATED.
- WOOD FRAMING MEMBERS: PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD"
  - SOUTHERN PINE NO. 2 OR BETTER, SPIB
  - 19 PERCENT MAXIMUM MOISTURE CONTENT
  - SELECT FRAMING MEMBERS SO KNOTS OR OTHER WOOD IMPERFECTIONS DO NOT OCCUR AT PANEL POINTS/CONNECTOR PLATES.
- METAL CONNECTOR PLATES, UNLESS NOTED OTHERWISE:
  - AT INDOOR LOCATIONS: ASTM A653 WITH G60 GALVANIZED COATING
  - AT PRESERVATIVE TREATED LUMBER: ASTM A653 WITH G185 GALVANIZED COATING TO 0.036 INCH MIN THICKNESS
- REFERENCE ROUGH CARPENTRY NOTES FOR WOOD-PRESERVATIVE-TREATED LUMBER
- LIMIT TRUSS AND MEMBER DEFLECTIONS PER REFERENCED BUILDING CODE.
- TRUSS TO TRUSS CONNECTIONS ARE BY THE TRUSS ENGINEER. WHERE MULTIPLE TRUSS PLIES ARE INDICATED, FASTEN TOGETHER AS INDICATED BY THE TRUSS MANUFACTURER.
- TRUSS CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION OF THE TRUSSES, OR AS RECOMMENDED BY THE MANUFACTURER AND TPI, IN ADDITION TO ANY BRACING INDICATED.
- DESIGN AND INSTALL BOTTOM CHORD BRACING WHERE CEILING SHEATHING DOES NOT ATTACH DIRECTLY TO TRUSS BOTTOM CHORD. COORDINATE EXTENTS OF CEILING SHEATHING WITH ARCHITECTURAL DRAWINGS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES. TRUSS PROFILES INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. COORDINATE TRUSS WEB CONFIGURATION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. TRUSS MANUFACTURER MAY USE ALTERNATIVE TRUSS WEB CONFIGURATIONS SUBJECT TO APPROVAL OF THE ARCHITECT. ALIGN WEB MEMBERS IN ADJACENT TRUSSES OF THE SAME PROFILE TO PERMIT PASSAGE OF DUCTWORK.
- TRUSS ANCHORAGES AND HOLDDOWNS ARE BASED ON TRUSS LAYOUT INDICATE. COORDINATE FINAL LOCATION OF GANGED STUDS AND HOLDDOWNS WITH TRUSS SHOP DRAWINGS.
- INSTALL TRUSS HOLDDOWNS PRIOR TO SHEATHING.
- DO NOT ALTER TRUSSES IN FIELD WITHOUT WRITTEN DIRECTION FROM TRUSS ENGINEER. DO NOT CUT, DRILL, NOTCH OR REMOVE TRUSS MEMBERS.
- TRUSS DIAGRAMS BELOW ARE FOR SCHEMATIC PURPOSES ONLY TO SHOW THE APPLICATION OF DESIGN LOADS. COMBINE LOADS PER THE REFERENCED BUILDING CODE.



**ROOF TRUSS DESIGN CRITERIA**

- TCDL = 10 PSF  
 TCLL = ROOF LIVE LOAD PER DESIGN CRITERIA  
 WL = WIND LOAD PER DESIGN CRITERIA  
 SL = SNOW LOAD (INCLUDING DRIFT) PER DESIGN CRITERIA  
 BCDL = 10 PSF  
 BCLL = 10 PSF

**COLD-FORMED STEEL FRAMING**

- COLD-FORMED STEEL FRAMING FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (AISI S100).
- DETAIL MEMBERS AND CONNECTIONS FOR ALL FRAMING CONDITIONS, INCLUDING WALLS, CORNERS, HEADERS, AND JAMBS. SOME CONDITIONS MAY REQUIRE MODIFICATION OF COLD-FORMED FRAMING MEMBERS (SUCH AS NOTCHING OR REVISING SIZES) OR MULTIPLE STUDS TO SUPPORT INCREASED LOADS. CONTRACTOR COORDINATE ALL CONDITIONS, CONNECTIONS AND DETAILS.
- FABRICATION AND INSTALLATION MUST BE IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND MANUFACTURER INSTRUCTIONS. INSTALL MANUFACTURER'S RECOMMENDED STANDARD TRACK, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES FOR THE APPLICATIONS INDICATED AND AS NEEDED FOR A COMPLETE FRAMING SYSTEM. TEMPORARY (CONSTRUCTION) BRACING OF FRAMING MEMBERS (PRIOR TO SHEATHING INSTALLATION) IS BY THE CONTRACTOR PER AISI AND MANUFACTURER RECOMMENDATIONS.
- COLD-FORMED STEEL MATERIAL: ASTM A1003 STEEL SHEET WITH G60 GALV COATING CONFORMING TO ASTM A653, WITH A MINIMUM YIELD STRENGTH OF 33 KSI (USE 50 KSI FOR 54 MILS AND THICKER) UNLESS NOTED OTHERWISE.
- MEMBER SIZES INDICATED ARE PER THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA). COMPONENTS SHOWN ARE STRUCTURAL MEMBERS (33 MIL OR THICKER), UNLESS NOTED OTHERWISE. NON-STRUCTURAL MEMBERS AND DRYWALL GAGES ARE NOT PERMITTED.
- SCREWS ARE NON-CORROSIVE NO. 8-18 (DIA=0.125") OR LARGER, UNLESS NOTED OTHERWISE. DO NOT USE STAINLESS STEEL OR COPPER-COATED FASTENERS.
- WELDING: AWS D1.3 "STRUCTURAL WELDING CODE-SHEET STEEL". CONSULT MANUFACTURER FOR EQUIPMENT RECOMMENDATIONS AND PROPER ELECTRODE SELECTION.
- INSTALL MINIMUM OF THREE (3) WALL STUDS AT CORNERS AND INTERSECTING STUD WALLS (UNLESS OTHERWISE INDICATED).
- PREPUNCHED HOLES CANNOT BE LOCATED WITHIN 10 INCHES FROM WALL STUD ENDS.
- TRACKS ARE THE SAME DEPTH AS STUDS OR JOISTS, UNLESS NOTED OTHERWISE. CONNECT TRACKS TO STUD AND/OR JOIST SUPPORTS AT 16" OC MAXIMUM, ON EACH SIDE. ALIGN WALL STUD FRAMING WITH SUPPORTED STUD/JOIST MEMBERS ABOVE.
- DO NOT SPLICE MEMBERS UNLESS OTHERWISE INDICATED. FASTEN MULTI-PLY MEMBERS TOGETHER USING TACK WELDS OR #10 SCREWS AT 12" OC MAXIMUM SPACING, UNLESS NOTED OTHERWISE.
- CLADDING AND PARTITION FRAMING, AND CONNECTIONS MUST ACCOMMODATE VERTICAL AND LATERAL DISPLACEMENT OF THE PRIMARY STRUCTURE. COMPLY WITH SSMA TECHNICAL NOTE NO. 1 DATED JANUARY 2000 FOR SLIP TRACK DESIGN.
- FASTEN SHEATHING TO FRAMING MEMBERS PER THE WALL SHEATHING NOTES.
- REPAIR DAMAGED GALVANIZED COATINGS AND WELDED AREAS IN ACCORDANCE WITH ASTM A780.

**POST-INSTALLED ANCHORS**

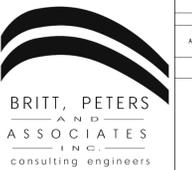
- ONLY USE POST-INSTALLED ANCHORS WHERE SPECIFIED ON THE DRAWINGS.
- OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
- LOCATE EXISTING REBAR, REINFORCING AND ANCHORS PRIOR TO DRILLING. DO NOT DAMAGE OR DISTURB EXISTING REBAR, REINFORCING OR ANCHORS.
- INSTALL ANCHORS ACCORDING TO MANUFACTURER'S INSTRUCTIONS, INCLUDING BUT NOT LIMITED TO: EXPIRATION DATE, INSTALLATION TEMPERATURE, DRILLING METHOD, HOLE SIZE, HOLE DEPTH, HOLE CLEANING, MIXING PROCEDURE, ANCHOR INSTALLATION AND CURING. CONTACT THE MANUFACTURER PRIOR TO DRILLING IF TRAINING IS REQUIRED.
- FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MINIMUM EDGE DISTANCES AND SPACING.
- UNLESS NOTED OTHERWISE, EMBED ANCHORS IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD.
- ADHESIVE ANCHOR DESIGN BOND STRENGTH IS BASED ON CRACKED CONCRETE, ACI 308.4 TEMPERATURE CATEGORY B, AND INSTALLATIONS INTO DRY HOLES DRILLED USING A HAMMER DRILL INTO CONCRETE CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS MUST BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318.
- INSPECT ANCHOR INSTALLATION PER APPLICABLE BUILDING CODE AND SPECIAL INSPECTION REQUIREMENTS.
- SUBMIT SUBSTITUTION REQUESTS TO THE STRUCTURAL ENGINEER, INCLUDING CALCULATIONS PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER SHOWING THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE.

**SPECIAL INSPECTIONS AND TESTING**

- SPECIAL INSPECTIONS AND TESTING ARE PERFORMED IN ACCORDANCE WITH IBC CHAPTER 17 AND LOCAL JURISDICTION PROVISIONS, BY AN INDEPENDENT INSPECTION AND TESTING AGENCY. THE SPECIAL INSPECTOR MUST OBSERVE AND TEST THE WORK FOR CONFORMANCE TO THE CONTRACT DOCUMENTS.
- THE SPECIAL INSPECTOR MUST FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL. THE ENGINEER OR ARCHITECT OF RECORD, AND ALL OTHER DESIGNATED INDIVIDUALS, ALL DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR MUST SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK IS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, SOILS REPORT AND APPLICABLE WORKMANSHIP OF THE BUILDING CODE.

**SUBMITTALS**

- CONTRACTOR MUST REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW. FABRICATE AND CONSTRUCT FROM THE REVIEWED SUBMITTALS. ALLOW 10 BUSINESS DAYS FOR EACH SUBMITTAL REVIEW UNLESS AN ALTERNATE REVIEW TIME IS AGREED UPON BY ALL PARTIES. IN THE EVENT MULTIPLE SUBMITTALS ARE SUBMITTED AT THE SAME TIME, THE CONTRACTOR MUST INDICATE WHICH SUBMITTALS HAVE PRIORITY.
- MAINTAIN A RECORD SET OF APPROVED SHOP DRAWINGS IN THE FIELD.
- SUBMIT IN WRITING ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO, THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED, TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED SPECIFIC CHANGES ARE BEING REQUESTED.
- PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.
- SUBMIT THE FOLLOWING SHOP DRAWINGS FOR THE ENGINEER'S REVIEW:
  - REINFORCING STEEL
  - PREFABRICATED WOOD TRUSSES (1, 3)
  - CANOPIES (1, 3)
  - CONCRETE MIX DESIGN
- SUBMIT ITEMS MARKED (1) SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMIT ITEMS MARKED (2) FOR OWNER'S RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED. SUBMIT ITEMS MARKED (3) WITH DESIGN CALCULATIONS SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
  - THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS. REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
- THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.



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 7008 ACC BLVD., 2ND FLOOR  
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PROJECT: **HIGHWAY 55**  
 3.2 SHELL PROTOTYPE

3236 HWY 190  
 HAMMOND, LA 70401

DRAWING: **GENERAL NOTES**

**Revisions**

THRU ADDENDUM "D"  
 11/21/2022

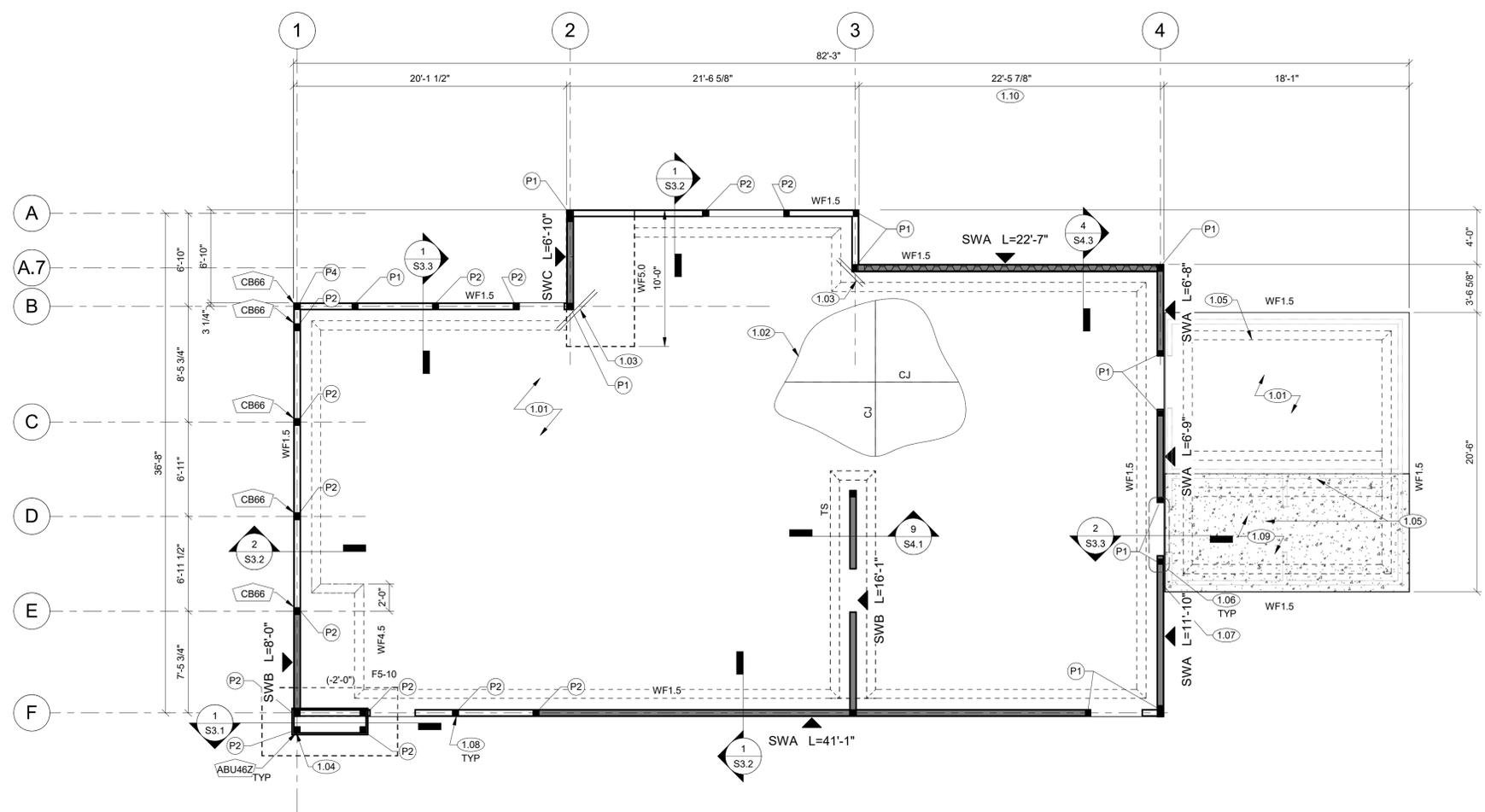
PROJECT DATE  
 06/28/2023

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 SDH

Sheet No.

**S1.2**



**NOTE REGARDING REINF COVER REQUIREMENTS**  
ALL REINFORCING SHALL BE PLACED IN ACCORDANCE WITH THE MINIMUM COVER REQUIREMENTS PER ACI AS OUTLINED IN THE GENERAL NOTES. SPECIFIC BAR LOCATIONS SHOWN IN SECTIONS AND DETAILS MAY OVERRIDE BUT NOT VIOLATE THE MINIMUM COVER REQUIREMENTS.

MARK	DESCRIPTION	##
*REF PLANS AND DETAILS FOR SHEET NOTES REQUIRED. NOT ALL NOTES APPLICABLE TO THIS SHEET*		
1.01	4" CONCRETE SLAB REINF W/ 6x6-W1.4xW1.4 WWR ON 10 MIL VAPOR RETARDER ON 4" GRANULAR BASE ON PREPARED SUBGRADE	
1.02	CJ INDICATES CONTROL JOINT. REF 1/S4.1	
1.03	(2) #3 x 2'-6" DIAGONAL REINF. AT MID DEPTH WHERE SHOWN. (TYP) UNO	
1.04	CONC PIER REF 14/S4.1	
1.05	PRE-ENGINEERED FREEZER/COOLER/STORAGE AND CONNECTIONS BY DELEGATE SPECIALTY ENGINEER	
1.06	REF HEADER SCHEDULE, WD POST SCHEDULE AND 1/S4.2 FOR ADDITIONAL INFO AT WOOD FRAMED OPENINGS.	
1.07	CONT. 1/2" ISOLATION JOINT. TYP U.N.O.	
1.08	HTT4 W/ TITEN HD AT EACH WOOD POST. REF 1/S4.2 (TYP. U.N.O.)	
1.09	6" THICK CONG SLAB ON GRADE W/ 6x6-W2.9xW2.9 WWF ON VAPOR BARRIER/RIGID INSULATION OVER COMPACTED SOIL. COORD W/ ARCH DRAWINGS AND FREEZER/COOLER MANUFACTURER FOR ADDITIONAL INFO.	
1.10	CFS WALL FRAMING, REF 4/S4.3	

- FOUNDATION PLAN LEGEND**
- ## DENOTES SHEET NOTE, REF SCHEDULE THIS SHEET
  - Fx# DENOTES FOOTING (F), REF SCHEDULE THIS SHEET
  - WF# DENOTES WALL FOOTING (WF), REF SCHEDULE THIS SHEET
  - ### DENOTES SIMPSON CONNECTOR REF SCHEDULE ON S2.2
  - (#-#) DENOTES TOP OF FOOTING (T/FTG)
  - [Hatched Pattern] DENOTES EXTENT OF 6" (MIN) THICK CONCRETE SLAB-ON GRADE
  - CJ DENOTES SLAB CONTROL OR CONSTRUCTION JOINT. JOINT SHALL BE PLACED AT 15 FEET OC MAX. SLAB UNITS CREATED BY JOINT LAYOUTS SHALL BE AS SQUARE AS POSSIBLE & WITH A MAXIMUM ASPECT RATIO OF 1.25 TO 1, AND LIMITED TO AN AREA NOT EXCEEDING 225 SQUARE FEET.
  - (P#) DENOTES WOOD POST. REFER TO WOOD POST SCHEDULE THIS SHEET (TYP) UNO
  - SW# DENOTES WOOD SHEAR WALL, REF SCHEDULE AND TYPICAL DETAILS
  - TS DENOTES THICKENED SLAB, REF 9/S4.1
  - [Hatched Pattern] DENOTES 600S162-43 WALL STUDS @ 16" OC

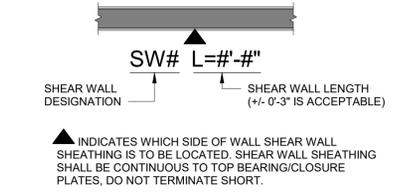
**FOUNDATION PLAN**  
3/16" = 1'-0"

NOTES:  
REF S1.3 FOR TYPICAL NOTES, SCHEDULES, AND LEGENDS.

**FOUNDATION PLAN NOTES**

- REF TO GEOTECHNICAL REPORT FOR SOIL PREPARATION REQUIREMENTS AND/OR BASECOURSE REQUIREMENTS BELOW VAPOR RETARDER.
- T/ SLAB ELEVATION = 0'-0" U.N.O.
- B/ WALL FTG ELEVATION = -1'-6" U.N.O.
- TOP OF ISOLATED COLUMN FTG ELEVATION = -1'-6" U.N.O.
- WALL FOOTINGS TO BE TYPE "WF1.5" U.N.O.
- REF ARCH & CIVIL FOR EXTERIOR SLAB AND SIDEWALK INFORMATION

**SHEAR WALL LEGEND**



MARK	WIDTH	LENGTH	DEPTH	REINFORCING				REMARKS
				TOP		BOTTOM		
				LONG	SHORT	LONG	SHORT	
F5-10	5'-0"	10'-0"	1'-0"	--	--	(10) #5	(5) #5	

MARK	DIMENSIONS		REINFORCING				REMARKS
	WIDTH "W"	THICKNESS "T"	BOTTOM BARS		TOP BARS		
			LONG	SHORT	LONG	SHORT	
WF1.5	1'-6"	1'-6"	(2) #5 x CONT	#4 @ 18" OC	--	--	
WF4.5	4'-6"	1'-6"	(5) #5 x CONT	#4 @ 18" OC	--	--	
WF5.0	5'-0"	3'-0"	(7) #5 x CONT	#5 @ 12" OC	(7) #5 x CONT	#5 @ 12" OC	

MARK	SIZE AND DESCRIPTION	#
P1	(3) 2x GANGED WALL STUDS	
P2	(3) 1.75x5.5 LVL GANGED STUDS	
P3	(4) 1.75x5.5 LVL GANGED STUDS	
P4	6X6 WOOD POST	

SHEAR WALL ID	SHEATHING	EDGE NAILING	FIELD NAILING	SILL ANCHORAGE	WALL CAPACITY (PLF)	NO OF END STUDS	HOLDOWN (AT SW ENDS)	REMARKS
SWA	(1) 15/32" WSP	10d @ 6" OC	10d @ 12" OC	1/2" DIA TITEN HD ANCHORS @ 32" OC	475	3	SIMPSON HDU5	
SWB	(1) 15/32" WSP	10d @ 4" OC	10d @ 6" OC	1/2" DIA TITEN HD ANCHORS @ 24" OC	715	3	SIMPSON HDU8	
SWC	(1) 15/32" WSP	10d @ 3" OC	10d @ 6" OC	1/2" DIA TITEN HD ANCHORS @ 16" OC	930	4	SIMPSON HDU14	(2) 2x6 WALL STUDS

- NOTES:  
1. WOOD: REQUIRED ANCHORAGE PER 16" OC.  
2. REF S4.2 FOR FURTHER REQUIREMENTS.  
3. SWA ATTACHMENT REQUIREMENTS APPLICABLE TO ALL EXTERIOR WALLS NOT DESIGNATED AS SHEAR WALLS.  
4. REQUIRED ANCHORAGE PER 12" OC.

PROJECT: **HIGHWAY 55**  
3.2 SHELL PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401  
DRAWING: FOUNDATION PLAN

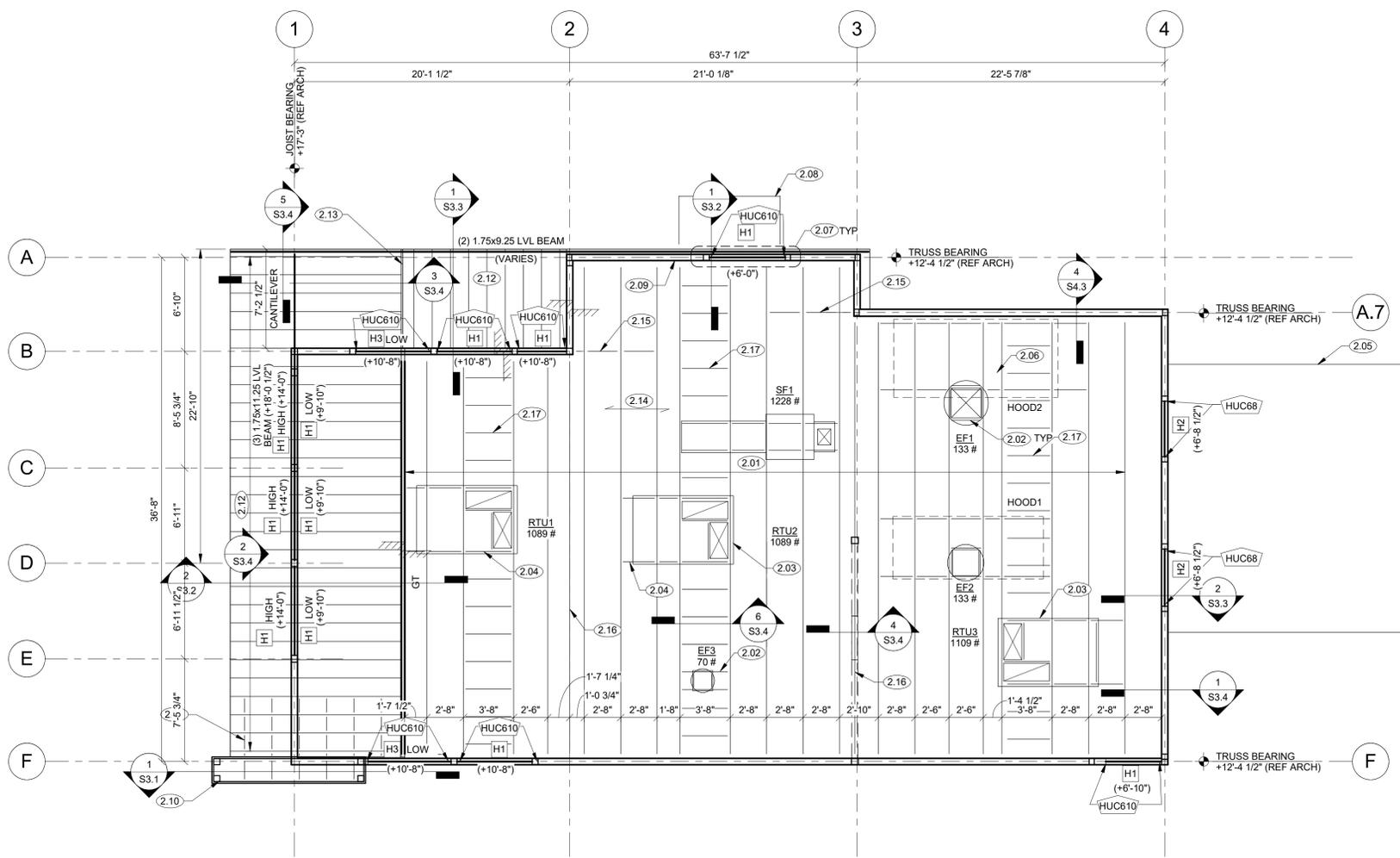
Revisions  
THRU ADDENDUM "D"  
11/21/2022

PROJECT DATE  
06/28/2023

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ES

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SDH

Sheet No.  
**S2.1**



ROOF FRAMING NOTE SCHEDULE		##
*REF PLANS AND DETAILS FOR SHEET NOTES REQUIRED. NOT ALL NOTES APPLICABLE TO THIS SHEET*		
MARK	DESCRIPTION	
2.01	PRE-ENGINEERED TRUSSES @ 32" OC MAX	
2.02	REF 1/S4.3 FOR BLOCKING AND ADDITIONAL REQUIREMENTS AT ROOF PENETRATIONS (TYP)	
2.03	RTU NOTE: WEIGHT INCLUDES 150# MAX WEIGHT FOR PRE-ENGINEERED CURB (TYP) UNO. NOTIFY ARCH/ENGR OF ANY DISCREPANCIES.	
2.04	PROVIDE MECH CURB FRAMING, REF 2/S4.3	
2.05	PRE-ENGINEERED FREEZER/COOLER BY OTHERS	
2.06	SUSPENDED HOODS W/ 16 ROD LOCATIONS, COORD W/ HOOD MFR. REF 3/S4.3 FOR HOOD SUPPORT BLOCKING.	
2.07	REF HEADER SCHEDULE, WD POST SCHEDULE AND 1/S4.2 FOR ADDITIONAL INFO AT WOOD FRAMED OPENINGS	
2.08	PRE-ENGINEERED AWNING AND CONNECTIONS BY DELEGATE SPECIALTY ENGINEER SELECTED BY CONTRACTOR, DESIGNED FOR OPEN-OBSTRUCTED WIND FLOW. SUBMIT FINAL S/S SHOP DWG'S FOR REVIEW. (TYP)	
2.09	PRE-ENGINEERED BLOCKING TRUSS BETWEEN EA WOOD TRUSS. REF TO 3/S4.3	
2.10	SIGN STRUCTURE. REF 2/S3.1	
2.11	2x6 BLOCKING, REF 2/S3.1	
2.12	2x6 JOISTS @ 16" OC	
2.13	(2) 2x6 JOISTS	
2.14	ROOF SHEATHING REF GENERAL NOTES	
2.15	2x6 BLOCKING W/ SIMPSON L30 AT EA END AND CONT SIMPSON CS 16 STRAP LAID FLAT ON DECK ABOVE	
2.16	DESIGN TRUSS FOR 6K AXIAL LOAD ASD	
2.17	2x6 BLOCKING @ 24" OC MAX	

- ROOF FRAMING PLAN LEGEND**
- ## DENOTES SHEET NOTE, REF SCHEDULE THIS SHEET
  - H# DENOTES WOOD HEADER/ BEAM, REF SCHEDULE ON THIS SHEET.
  - GT DENOTES GIRDER TRUSS, DESIGNED BY SUPPLIER
  - ### DENOTES SIMPSON CONNECTOR REF SCHEDULE ON S2.2
  - (#.#) DENOTES BOTTOM ELEVATION OF MEMBER

CONNECTOR SCHEDULE				###
MARK	UPLIFT CAP. (#)	LATERAL CAPACITY		REMARKS
		PERP. TO TRUSS (#)	PAR. TO TRUSS (#)	
A34	-	465	430	
ABU46Z	2460	-	-	
CB66	4510	-	-	
H2.5A	565	110	110	
H3	400	210	170	
H10A	1340	565	285	
HH6	1045	1605	1630	
HTS20	1310	-	-	
HT4	4235	-	-	
HUC68	1550	-	-	
HUC810	1550	-	-	
HUS26	1320	-	-	TRUSS/JOIST HANGER
LSTA18	1235	-	-	
SP1	555	-	-	

NOTES:  
 1. FASTEN ALL CONNECTORS WITH MAX NAILING PATTERNS. REF PLANS FOR LOCATIONS.

WOOD HEADER SCHEDULE			#
CALLOUT	SIZE	COMMENTS	
H1	(3) 2x10	REF PLAN FOR BRG	
H2	(3) 2x8	REF PLAN FOR BRG	
H3	(3) 1.75x7.25 LVL	REF PLAN FOR BRG	

- NOTES:  
 1. INSTALL 1/2" PLYWOOD FILLER BETWEEN PLYS OF HEADERS  
 2. AT LOCATIONS OF HEADER TO POST ATTACHMENT USE SIMPSON HH6 CONNECTOR U.N.O.

**ROOF FRAMING PLAN**

3/16" = 1'-0"

**ROOF FRAMING PLAN NOTES**

- REF PLAN FOR TRUSS BEARING (T/BEARING), COORD W/ ARCH.
- REF SHEET S1.3 FOR SCHEDULES.

PROJECT: **HIGHWAY 55**  
 3.2 SHELL PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: **ROOF FRAMING PLANS**

**Revisions**

THRU ADDENDUM "D"  
 11/21/2022

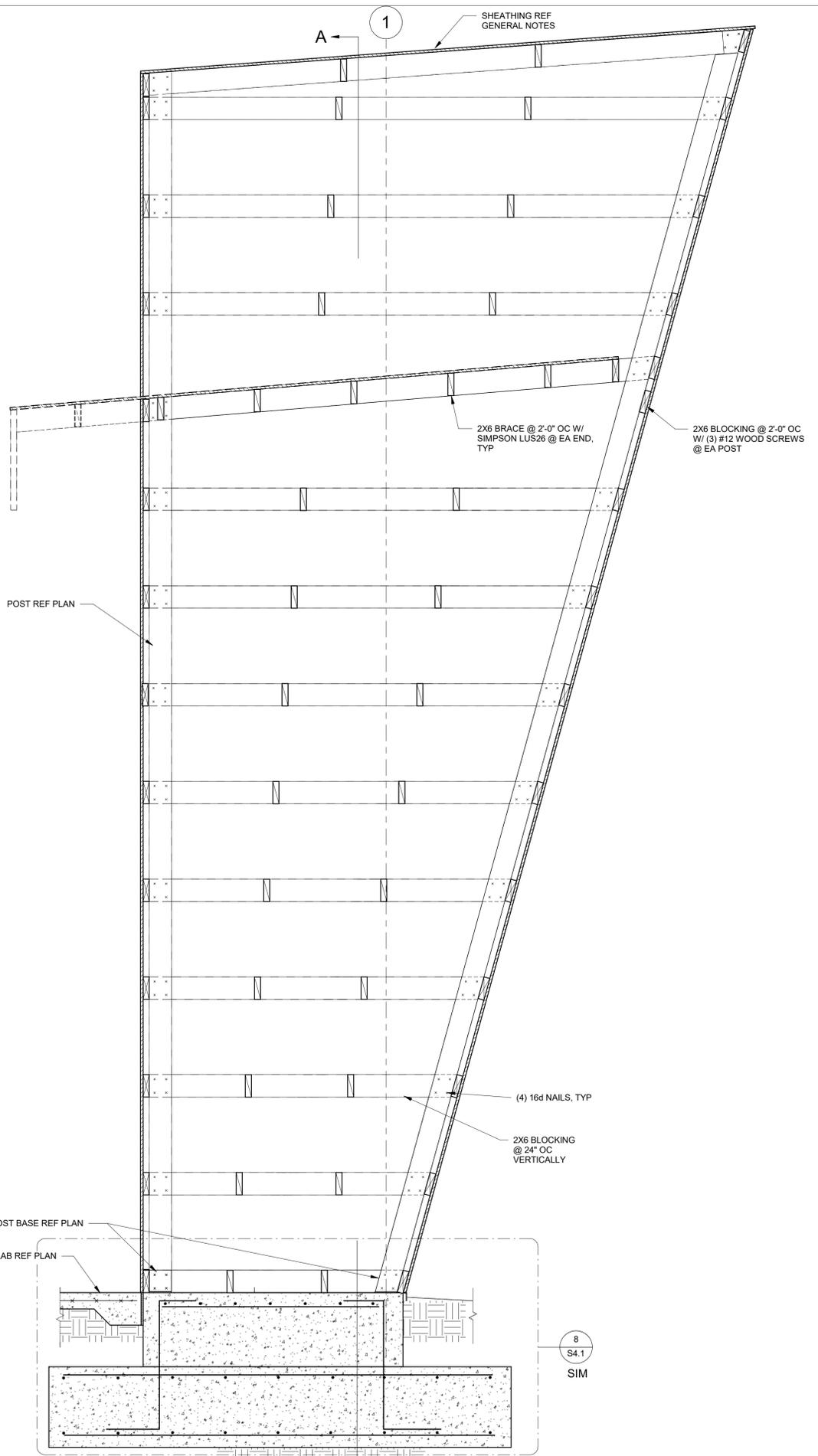
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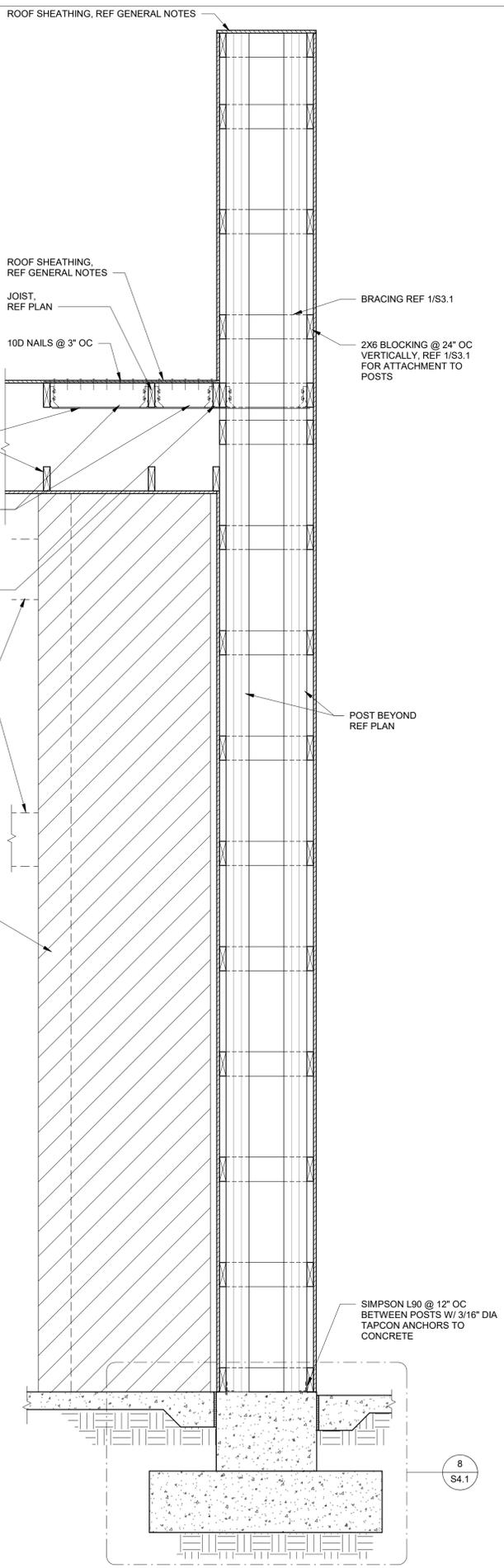
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Sheet No.

**S2.2**



**1 SECTIONS**  
3/4" = 1'-0"



**SECTION A-A**

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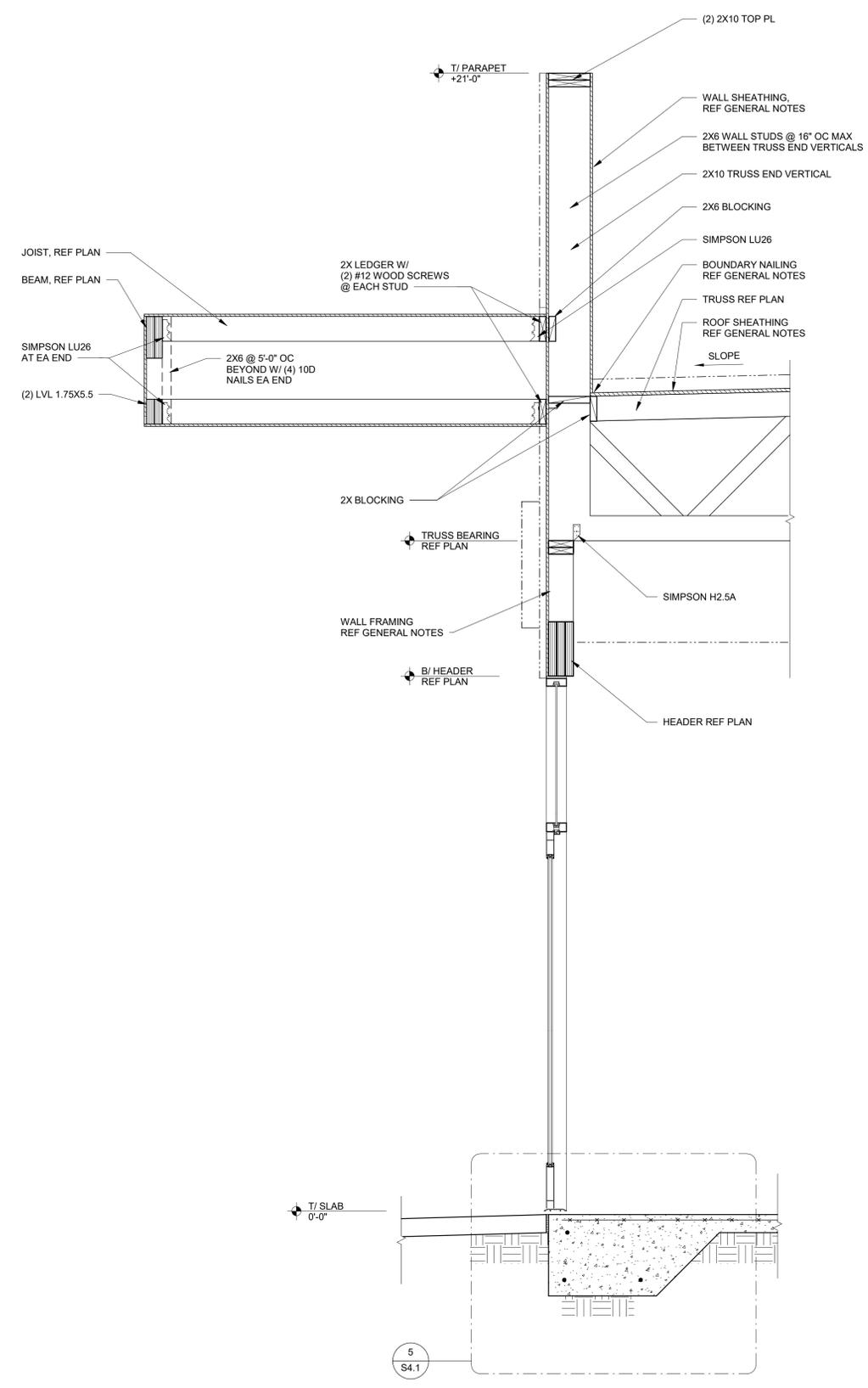
LMHT Project No. 23047.00  
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Phone: 919.544.0087 Fax: 919.544.9399

**Garrett S. Johns**  
License No. 47760  
PROFESSIONAL ENGINEER  
IN  
CIVIL ENGINEERING  
06/29/2023

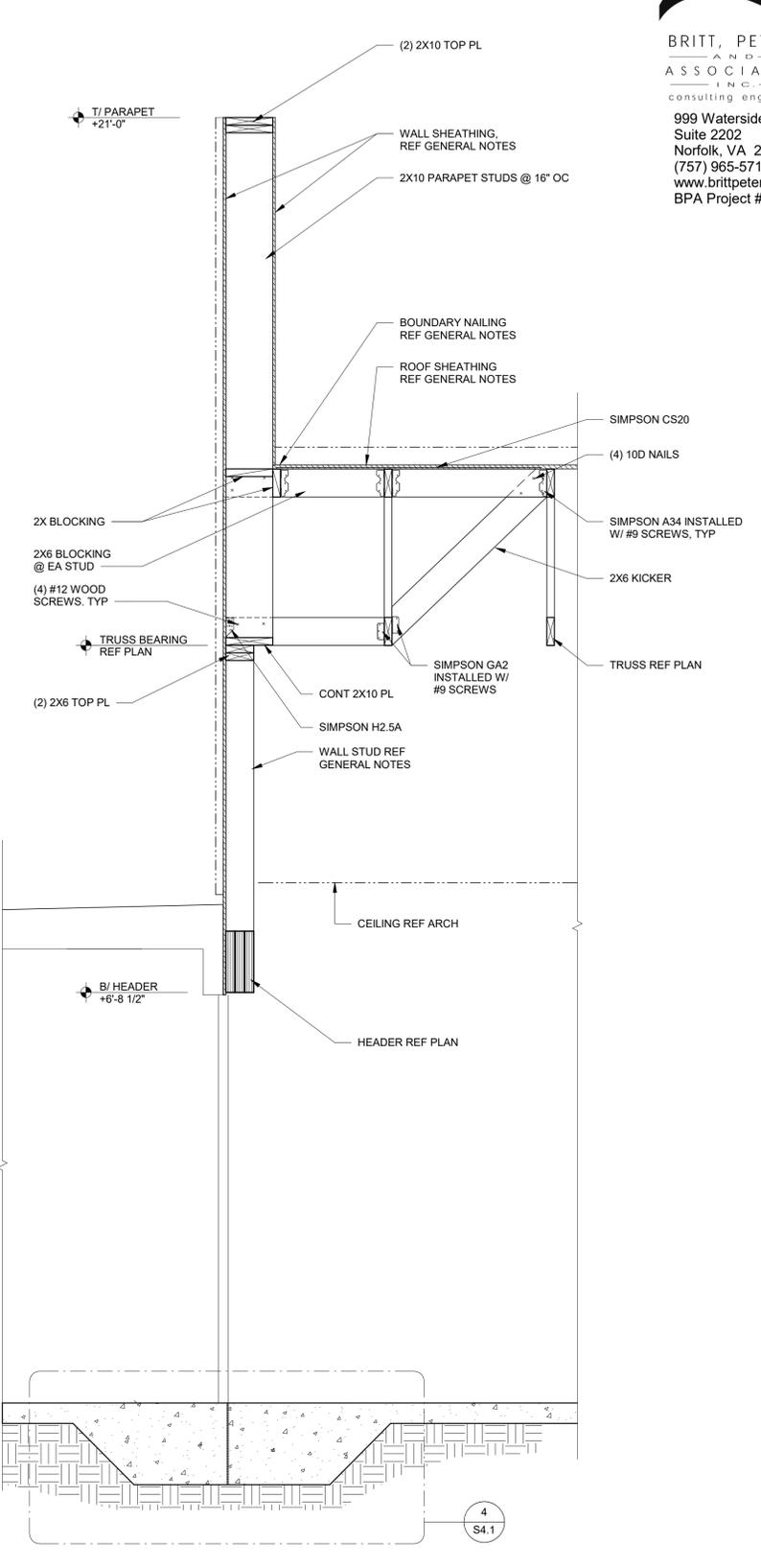
PROJECT: **HIGHWAY 55**  
3.2 SHELL PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401  
DRAWING: **SECTIONS**

Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/28/2023
Drawn by	EGS
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Sheet No.	S3.1



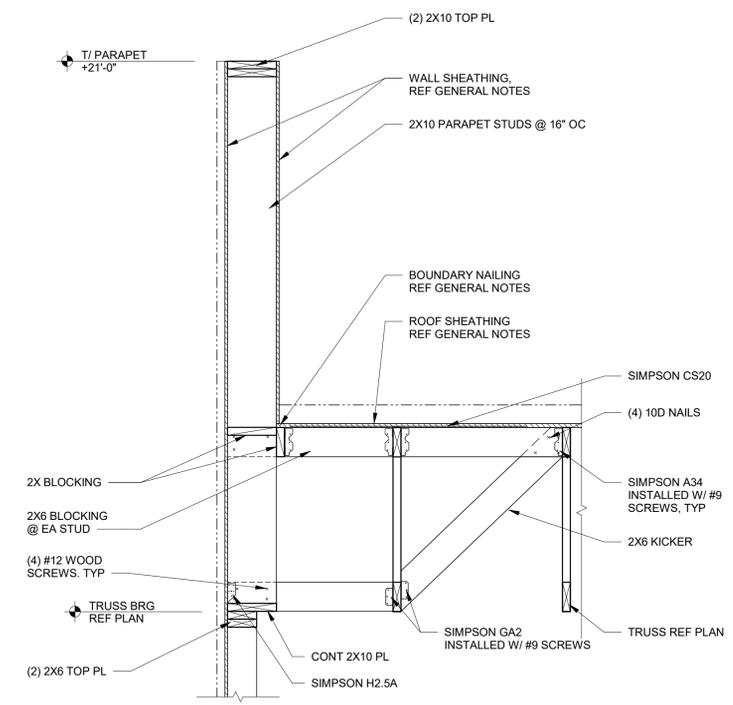


**1 SECTION**  
3/4" = 1'-0"

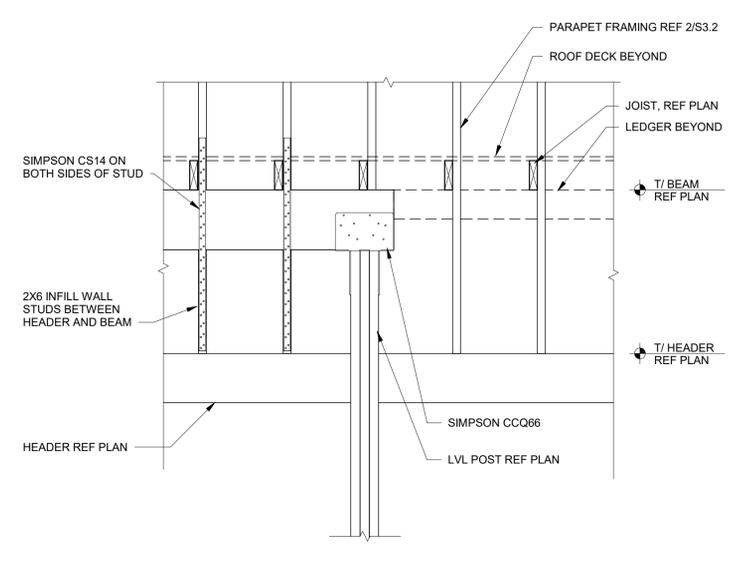


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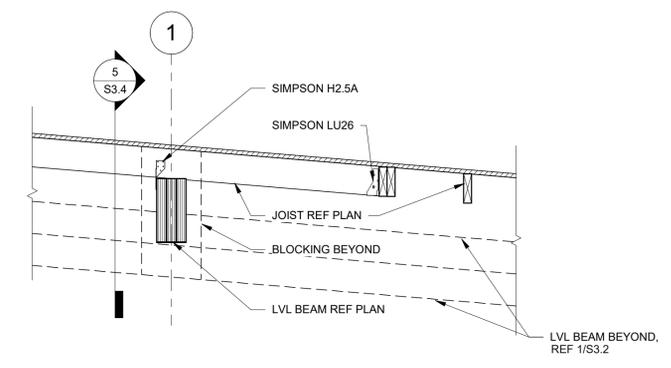
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PROJECT DATE	06/28/2023
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Sheet No.	<b>S3.4</b>



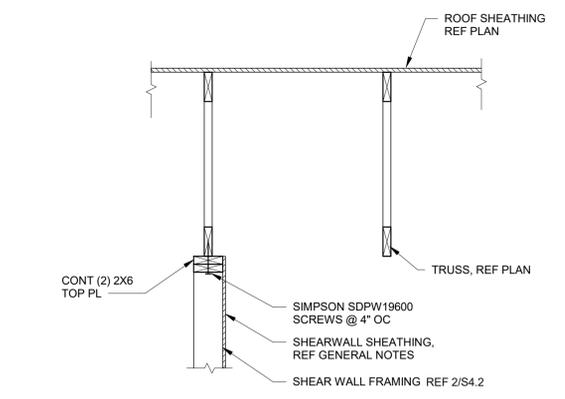
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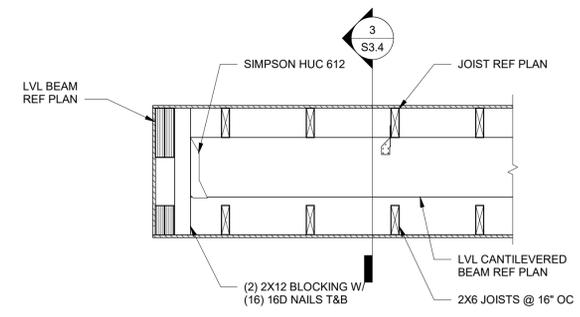
**2 ELEVATION**  
 3/4" = 1'-0"



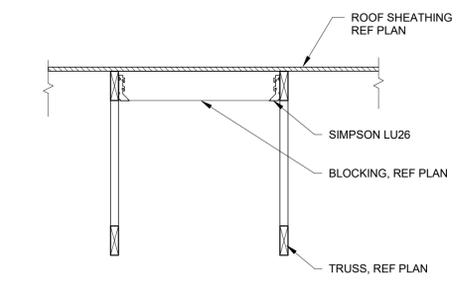
**3 SECTION**  
 3/4" = 1'-0"



**4 SECTION**  
 3/4" = 1'-0"

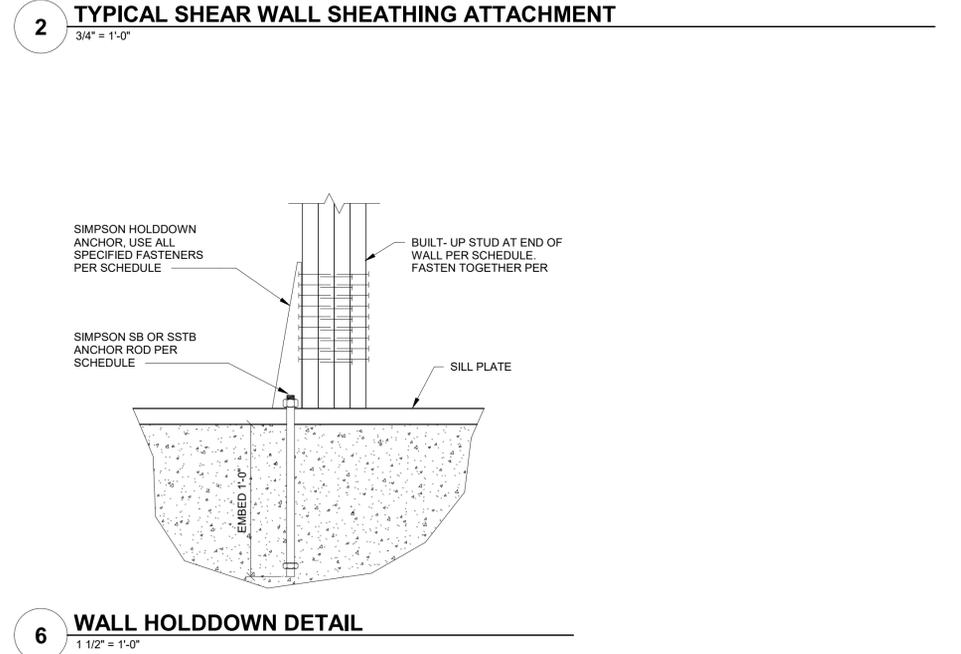
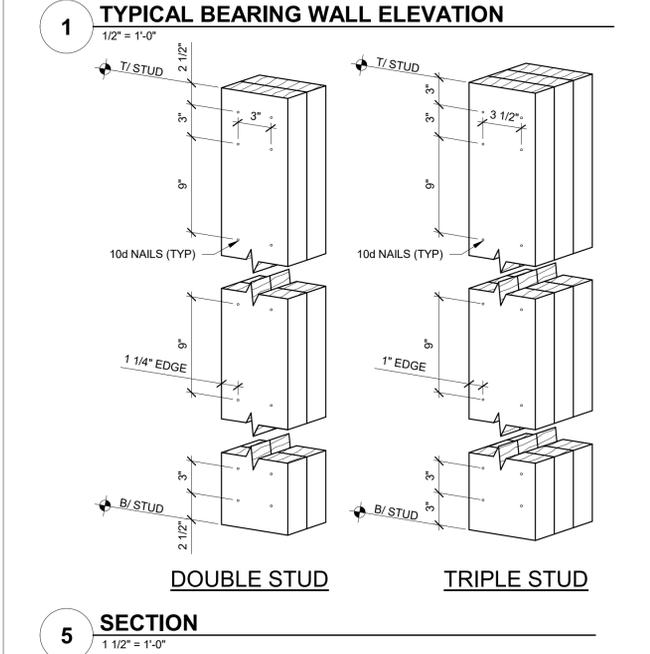
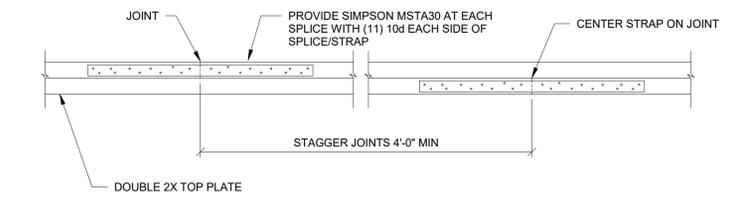
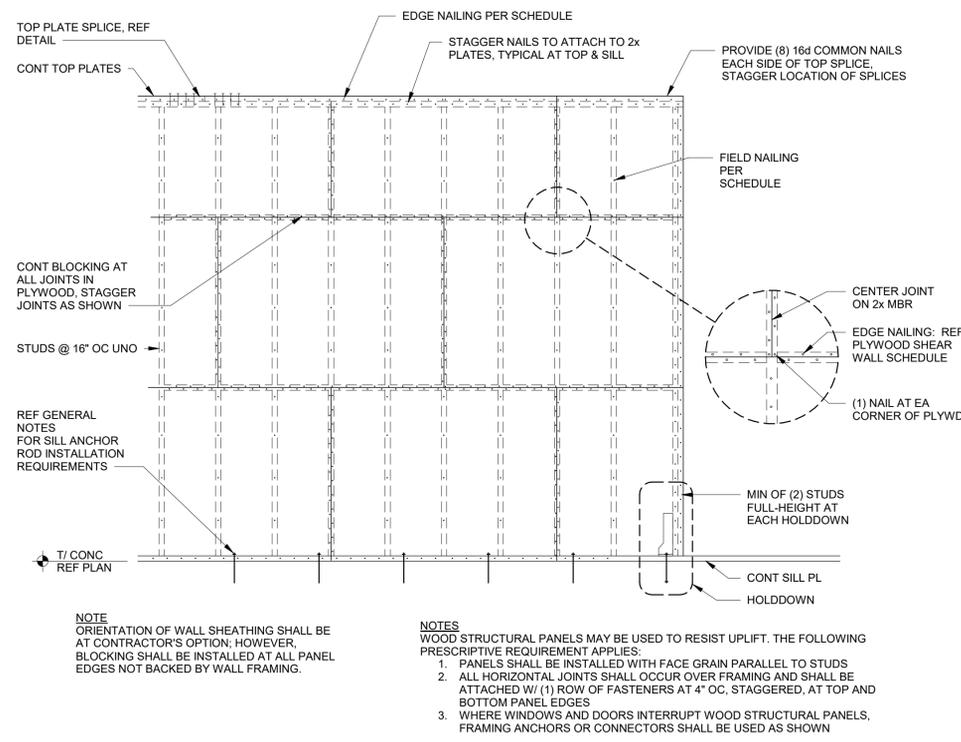
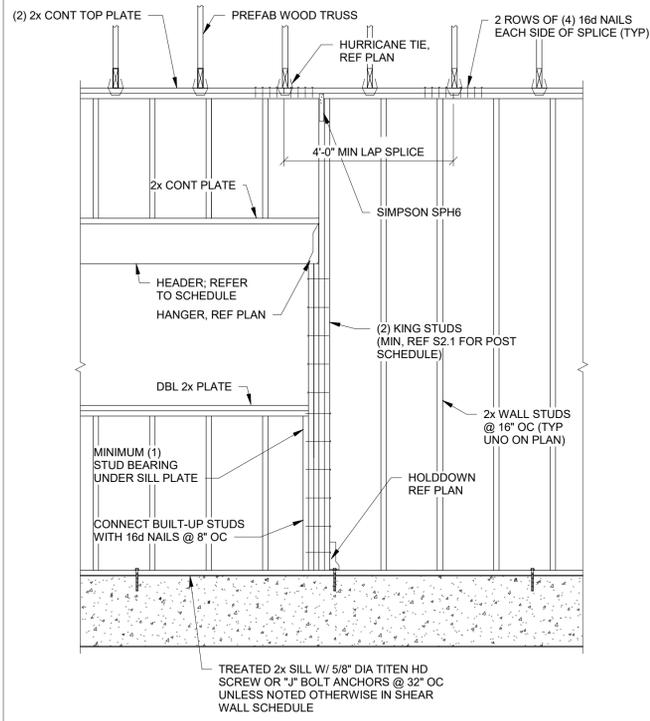


**5 SECTION**  
 3/4" = 1'-0"

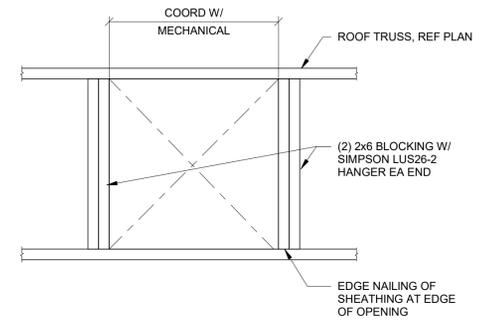


**6 SECTION**  
 3/4" = 1'-0"

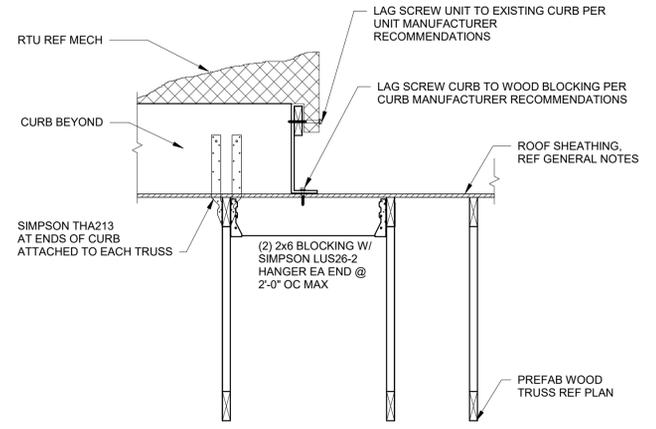




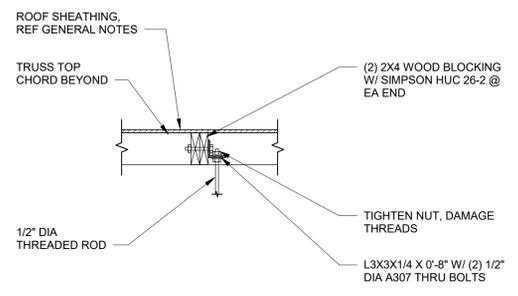
Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/28/2023
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Sheet No.	S4.2



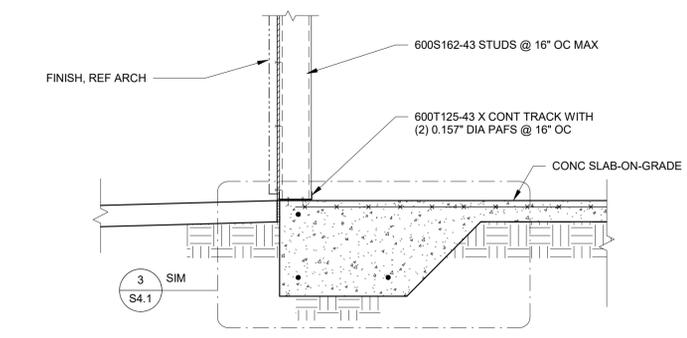
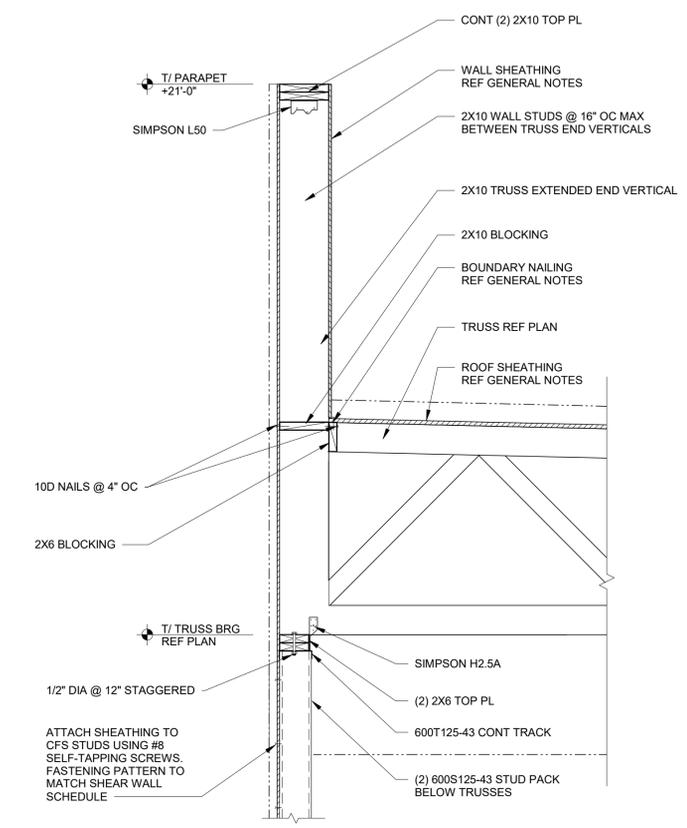
**1 EF SUPPORT AND ROOF OPENING DETAIL**  
1" = 1'-0"



**2 TYPICAL MECHANICAL CURB**  
3/4" = 1'-0"



**3 HOOD SUPPORT DETAIL**  
3/4" = 1'-0"



**4 SECTION**  
3/4" = 1'-0"

PROJECT: **HIGHWAY 55**  
3.2 SHELL PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401  
DRAWING: TYPICAL DETAILS

Revisions	
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PROJECT DATE	06/28/2023
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Sheet No.	<b>S4.3</b>



**REFLECTED CEILING LEGEND**

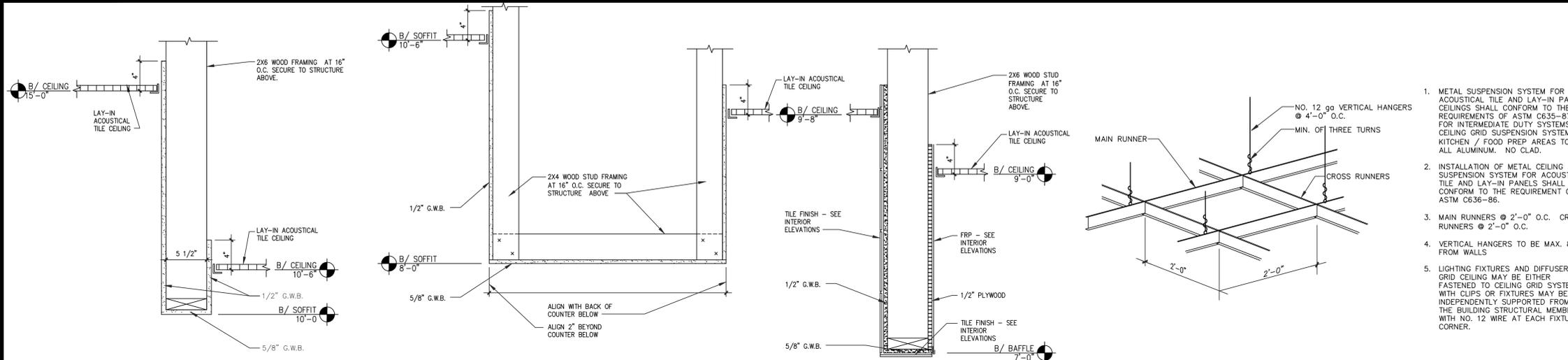
- 5/8" G.W.B CEILING (SMOOTH FINISH).
- 2' x 2' SUSPENDED CEILING GRID SYSTEM WITH 2' x 2' LAY-IN ACOUSTICAL CEILING TILES
- 2' x 2' SUSPENDED CEILING GRID SYSTEM WITH 2' x 2' VINYL COATED LAY-IN ACOUSTICAL CEILING TILES
- 2' x 2' SUSPENDED CEILING GRID SYSTEM WITH 2' x 2' METAL PRE-FINISHED LAY-IN CEILING TILES
- 2' x 2' L.E.D. LIGHT- SEE ELECTRICAL DRAWINGS
- 2' x 2' L.E.D. EMERGENCY LIGHT FIXTURE- SEE ELECTRICAL DRAWINGS
- 2' x 4' L.E.D. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- WALK IN COOLER LIGHT - SEE ELECTRICAL DRAWINGS
- UTILITY LIGHT - SEE ELECTRICAL DRAWINGS
- PENDANT LIGHT 6'-6" A.F.F. U.O.N. - SEE ELECTRICAL DRAWINGS
- CAN LIGHT - SEE ELECTRICAL DRAWINGS
- EMERGENCY LIGHT - SEE ELECTRICAL DRAWINGS
- EXTERIOR EMERGENCY LIGHT - SEE ELECTRICAL DRAWINGS
- EXIT EMERGENCY COMBO LIGHT - SEE ELECTRICAL DRAWINGS
- EXIT SIGN - SEE ELECTRICAL DRAWINGS
- MECHANICAL SUPPLY REGISTER - SEE MECHANICAL DRAWINGS
- MECHANICAL SIDE WALL SUPPLY REGISTER - SEE MECHANICAL DRAWINGS
- MECHANICAL RETURN REGISTER - SEE MECHANICAL DRAWINGS
- EXHAUST FAN - SEE MECHANICAL DRAWINGS

**GENERAL NOTES**

1. SEE ELECTRICAL DRAWINGS FOR ALL LIGHT FIXTURE SPECIFICATIONS.
2. COORDINATE AND VERIFY ALL LIGHTING FIXTURE INFORMATION, TYPES AND FINAL LOCATIONS WITH REFLECTED CEILING PLAN.
3. GENERAL CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH ANY WORK.
4. SEE SHEET ID111 FOR CEILING GRID AND TILE SPECIFICATIONS.
5. CONNECT SHEATHING TO STUDS AS SPECIFIED WITH THE STRUCTURAL DRAWINGS.
6. VERIFY LOCATIONS AND QUANTITY OF CEILING SPEAKERS WITH OWNER.

**CONSTRUCTION NOTES**

- 1 EXHAUST HOOD - SEE MECHANICAL DRAWINGS.
- 2 PRE-FABRICATED HANGER ROD CANOPY BY G.C. - SEE EXTERIOR ELEVATIONS.
- 3 CEILING MOUNTED MONITOR - INSTALL ON CEILING MOUNTED ELECTRICAL DROP SEE EQUIPMENT PLAN AND ELECTRICAL DRAWINGS.
- 4 BAFFLE - SEE CEILING DETAILS.
- 5 G.C. TO PROVIDE LOWER CEILING AROUND HVAC DUCTWORK INTO THE DRY GOODS STORAGE AREA. LAY-IN CEILING TILES TURNED VERTICAL TO CREATE BOX-OUT - SEE MECHANICAL DRAWINGS AND ENLARGED DETAIL 7/A502.
- 6 CEILING LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- 7 EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- 8 BUILDING SIGN - SEE EXTERIOR ELEVATIONS.
- 9 BOTTOM OF PENDANT AT 6'-6" A.F.F.
- 10 PENDANTS LIGHTS - SEE ELECTRICAL DRAWINGS.
- 11 NON-COMBUSTIBLE CEILING TILES 18" MIN. AROUND HOOD.
- 12 VINYL COATED CEILING TILES.
- 13 ACOUSTICAL CEILING TILE - SEE CEILING FINISH PLAN.
- 14 EMERGENCY LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- 15 ALIGN SOFFIT WITH BACK EDGE OF COUNTERTOP.
- 16 SOFFIT TO BE 2" PAST FRONT EDGE OF COUNTERTOP.
- 17 ALIGN SOFFIT WITH END OF WALL.
- 18 STAINLESS STEEL CHASE BELOW - SEE EQUIPMENT PLAN.
- 19 CENTER OVERHEAD BAFFLE ON WALL BELOW.
- 20 GYPSUM BOARD CEILING.
- 21 OVERHEAD DESK SHELF BY GC - SEE EQUIPMENT DRAWING.
- 22 2x6 CEILING JOIST AT 24" o.c.
- 23 INSULATED PANEL CEILING COVERED W/ALUMINUM BY VENDOR.

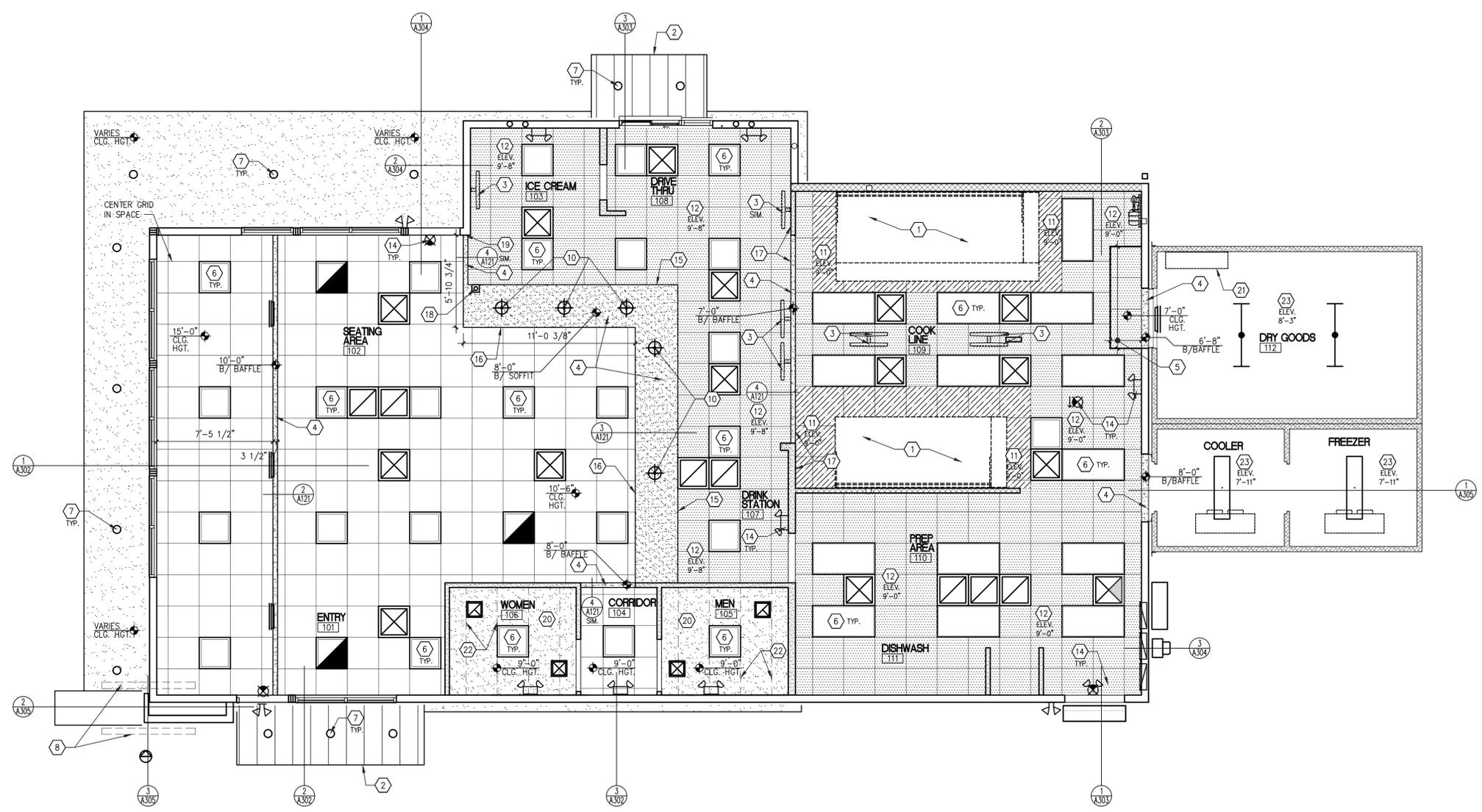


**2 BAFFLE DETAIL**  
A121 SCALE: 1 1/2" = 1'-0"

**3 SOFFIT DETAIL**  
A121 SCALE: 1 1/2" = 1'-0"

**4 BAFFLE DETAIL**  
A121 SCALE: 1 1/2" = 1'-0"

**5 ACOUSTICAL LAY-IN CEILING DETAIL**  
A121 SCALE: 1/4" = 1'-0"



**1 REFLECTED CEILING PLAN**  
A121 SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

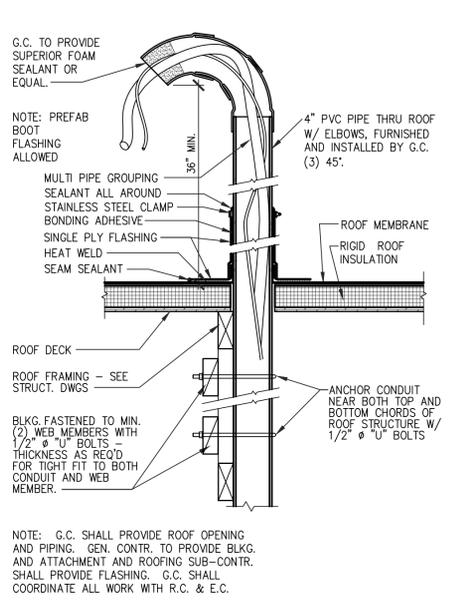
- CONTRACTOR TO VERIFY AND COORDINATE ALL ROOF TOP EQUIPMENT LOCATIONS AND REQUIRED ROOF PENETRATIONS WITH MECHANICAL AND STRUCTURAL DRAWINGS. NOTIFY ARCHITECT WITH ANY DISCREPANCIES.
- ALL FLAT ROOF SYSTEMS SHALL HAVE A 1/4" PER FOOT MINIMUM SLOPE U.N.O.
- G.C. TO VERIFY WITH MUNICIPALITY IF ANY LIGHTNING PROTECTION IS REQUIRED.
- ALL EDGE FLASHING TO BE ALUMINUM U.N.O.
- ALL MISC. FLASHING TO BE ALUMINUM U.N.O.
- ROOF SLOPES ARE TO BE ACHIEVED WITH RIGID INSULATION ABOVE ROOF DECK OVER PRE-ENGINEERED TRUSSES.
- ALL ROOF DRAIN LEADERS TO MANFOLD AND CONNECT TO STORMWATER SYSTEM - COORDINATE WITH CIVIL DRAWINGS.
- ROOF CONTRACTOR IS RESPONSIBLE FOR ROOF DRAINAGE LAYOUT, INCLUDING ANY TAPERING LAYOUT.
- PROVIDE WATER TIGHT INTEGRITY AT ALL PENETRATIONS.
- CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES AND WEIGHTS AND COORDINATE WITH TRUSS SPACING
- SEE FOOD SERVICE DRAWINGS FOR BOTH ELECTRICAL AND REFRIGERATION PENETRATIONS AND DETAILS FOR ROOFTOP COMPRESSORS.
- PAINT ANY PIPING IF REQUIRED BY CODE INCLUDING GAS PIPING
- G.C. TO LIFT UP TO ROOF FIVE REFRIGERATION CONDENSING UNITS FOR THE FOOD SERVICE EQUIPMENT. EACH UNIT WEIGHS APPROXIMATELY 250 LBS. COORDINATE DELIVERY TIMING WITH OWNER AND FOOD SERVICE EQUIPMENT SUPPLIER.
- TRUSS/JOIST MANUFACTURER TO SUBMIT TRUSS/JOIST DESIGN DRAWINGS AND CALCULATIONS TO PROJECT ARCHITECT FOR APPROVAL PRIOR TO FABRICATION AND DELIVERY.
- PRE-ENGINEERED CANOPY MANUFACTURER TO SUBMIT DESIGN DRAWINGS AND CALCULATIONS TO PROJECT ARCHITECT FOR APPROVAL PRIOR TO FABRICATION AND DELIVERY.
- DIMENSIONS TO LOCATE ROOF TOP EQUIPMENT ARE FROM FACE OF STUD TO OUTSIDE EDGE OF EQUIPMENT CURB.

**ROOF LEGEND**

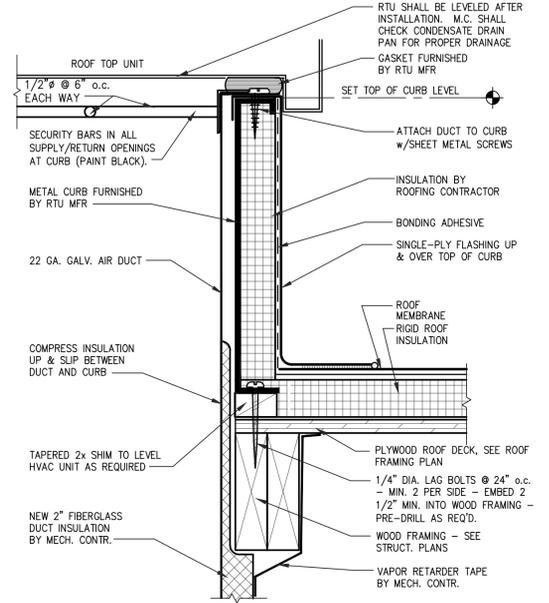


**KEYED NOTES**

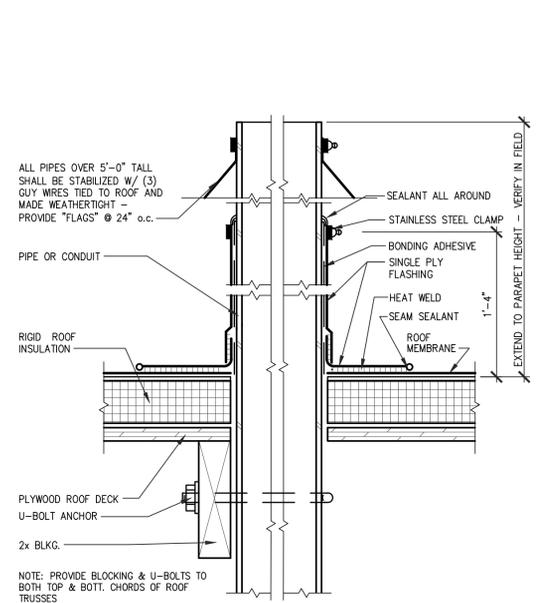
- SINGLE PLY 0.50 MIN. WHITE GREASE RESISTANT PVC ROOF MEMBRANE OVER RIGID INSULATION (SEE ENERGY CODE SUMMARY FOR R-VALUE) ON EXTERIOR GRADE PLYWOOD DECK (SEE STRUCTURAL DRAWINGS) ON PRE-ENGINEERED WOOD TRUSSES.
- SLOPED METAL ROOF BY WALK-IN MANUFACTURER.
- CONTINUOUS ALUMINUM EDGE TRIM - SEE WALL SECTIONS.
- BUILT-UP CRICKET AS REQUIRED.
- HANGER ROD CANOPY SYSTEM BELOW BY G.C.
- ROOF DRAIN - SEE DETAIL 6/A161 AND PLUMBING DRAWINGS.
- ROOF OVERFLOW DRAIN - SEE DETAIL 6/A161 AND PLUMBING DRAWINGS.
- ROOF TOP MECHANICAL UNIT - SEE MECHANICAL DRAWINGS.
- EXHAUST FAN - REFER TO MECHANICAL DRAWINGS.
- RTU CONDENSATE DISCHARGE TO ROOF - SEE MECHANICAL DRAWINGS.
- ROOF CURB FOR MECHANICAL ROOF TOP UNIT - SEE DETAIL 4/A161 AND MECHANICAL DRAWINGS.
- REMOTE CONDENSER EQUIPMENT ON WALK-IN ROOF BY MANUFACTURER - SEE MECHANICAL DRAWINGS. G.C. COORDINATE POWER AND REFRIGERATION PIPING CHARGING REQUIREMENTS WITH COOLER SUPPLIER AND REFRIGERATION CONTRACTOR.
- PROVIDE ROOF WALKWAY PADS FROM ROOF ACCESS TO ALL EQUIPMENT - TYPICAL.
- RESTROOM EXHAUST - SEE MECHANICAL DRAWINGS.
- PROVIDE ALUMINUM TERMINATION STRIP AT ROOFING/WALL TRANSITION.
- WATER HEATER VENTS - SEE PLUMBING DRAWINGS.
- SIGNAGE BY SIGN VENDOR - SEE EXTERIOR ELEVATIONS.
- VENT THROUGH ROOF - SEE DETAIL 3/A161 AND PLUMBING DRAWINGS.
- THROUGH PARAPET SCUPPER - SEE ENLARGED DETAIL 5/A501.
- COOKING HOOD BELOW - SEE MECHANICAL DRAWINGS.



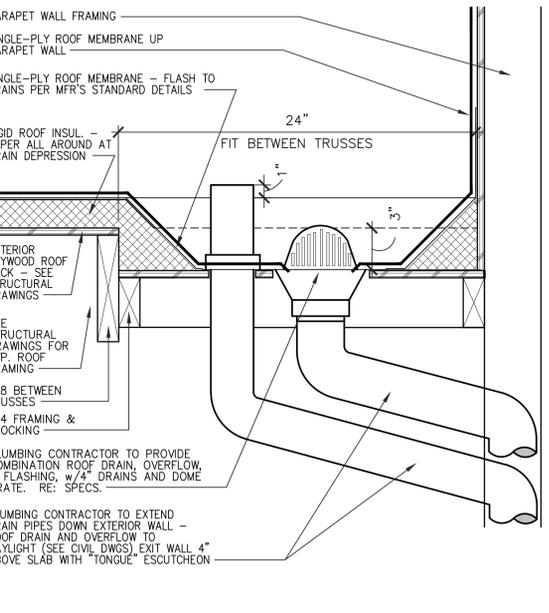
**5 CONDUIT SLEEVE THRU ROOF**  
SCALE: 1 1/2" = 1'-0"



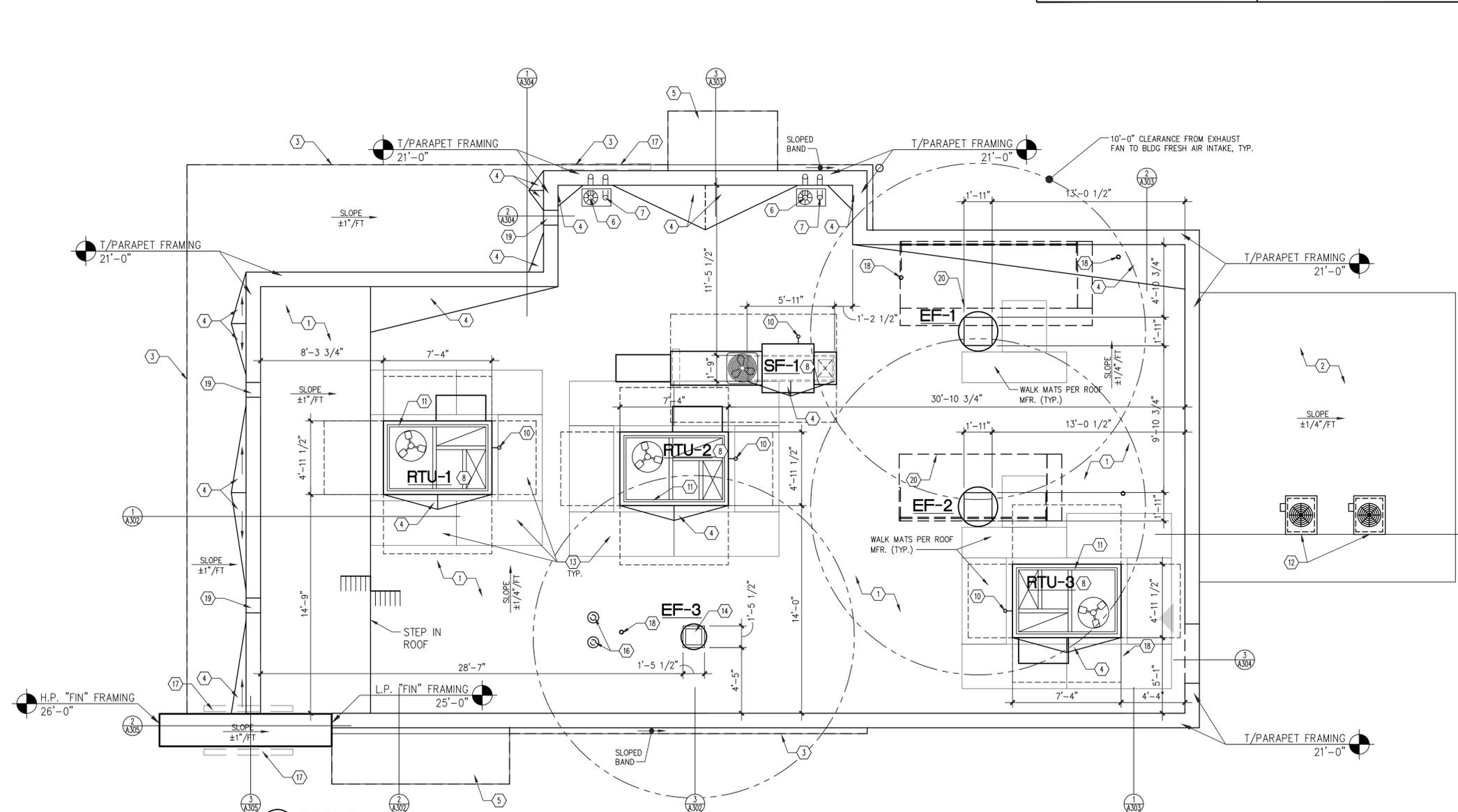
**4 EQUIPMENT CURB DETAIL**  
SCALE: 3" = 1'-0"



**3 ROOF VENT DETAIL**  
SCALE: 3" = 1'-0"

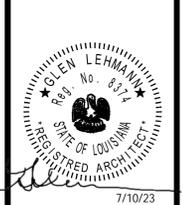


**6 ROOF DRAIN AND OVERFLOW**  
SCALE: 1 1/2" = 1'-0"



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

Drawing File: C:\Users\chudson\appdata\local\temp\AcP\publish\_6196\A161.dwg  
Plotted by: chudson  
Plotted Date: Jun 29, 2023 - 2:28pm



**GENERAL NOTES**

- ALL NEW PAINT WORK MUST INCLUDE A 2 YEAR FULL WARRANTY AND A YEAR PRO-RATED LABOR AND MATERIALS WARRANTY.
- ALL PAINT COLOR SELECTIONS TO BE VERIFIED WITH OWNERS CONSTRUCTION MANAGER BEFORE ORDERING.
- TOP OF PARAPET TO BE CLAD WITH UNA-CLAD COPING. FINAL SELECTION TO BE VERIFIED WITH OWNER'S CONSTRUCTION MANAGER.
- ALL PREFABRICATED CANOPY SYSTEMS TO BE FIELD VERIFIED BEFORE FABRICATION.
- ALL WALL MOUNTED EQUIPMENT SUCH AS ELECTRICAL METERS, IRRIGATION METERS, PHONE/CABLE BOXES, ETHERNET VENTS AND LOUVERS, ETC., SHALL BE PAINTED TO MATCH THE WALL ON WHICH IT IS MOUNTED OR OTHERWISE CONSISTENT WITH THE COLOR(S) OF THE BUILDING.

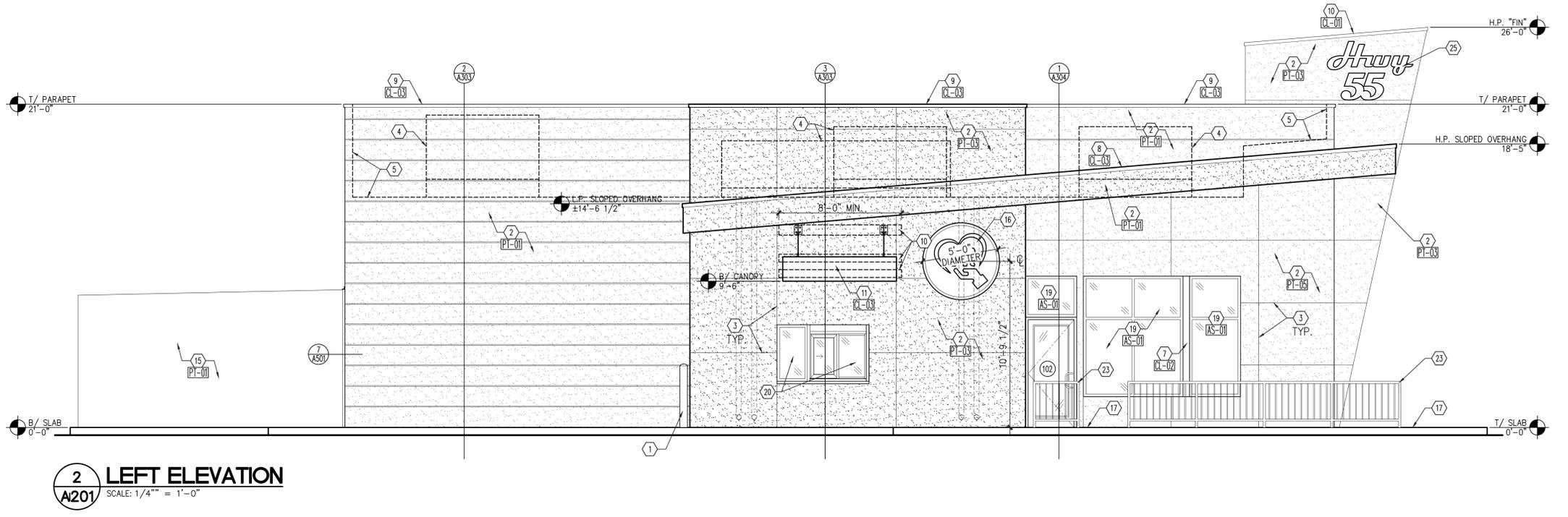
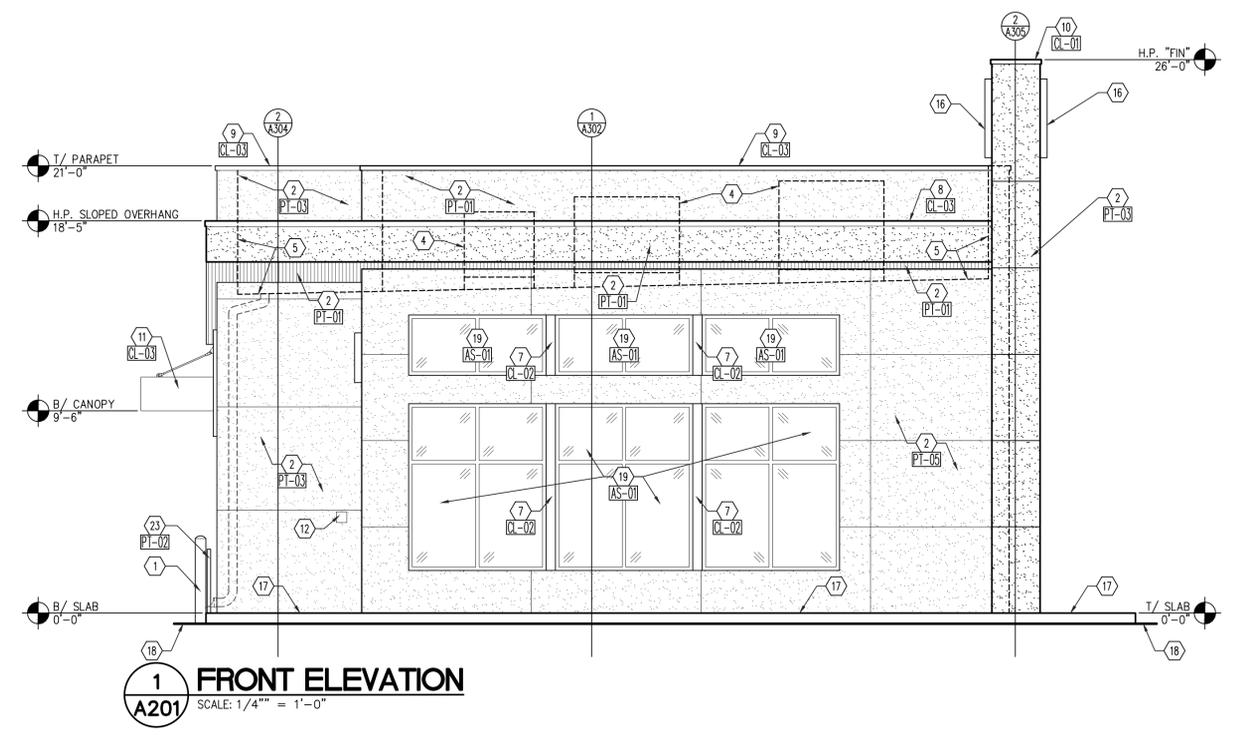
**CONSTRUCTION NOTES**

- PIPE BOLLARD - SEE SITE PLAN.
- HARD COAT STUCCO WITH MEDIUM SAND FINISH - SEE WALL SECTIONS.
- HARD COAT STUCCO CONTROL JOINT.
- OUTLINE OF MECHANICAL EQUIPMENT BEYOND.
- APPROXIMATE LINE OF ROOF SURFACE BEYOND.
- SLOPED ROOF SURFACE.
- CLEAR ANODIZED ALUMINUM BREAK METAL BETWEEN STOREFRONT WINDOWS.
- CONTINUOUS METAL ROOF EDGE OR DRIP FLASHING - SEE WALL SECTIONS.
- CONTINUOUS METAL EDGE FLASHING.
- BLOCKING FOR PRE-FABRICATED HANGER ROD CANOPY SYSTEM BY GENERAL CONTRACTOR - COORDINATE WITH SIGN VENDOR & SEE WALL SECTIONS.
- PRE-FABRICATED HANGER ROD CANOPY SYSTEM - GENERAL CONTRACTOR PROVIDED AND INSTALLED - SEE WALL SECTIONS.
- KNOX BOX MOUNTED AT 4'-6" A.F.F.
- ELECTRICAL METER SERVICE - SEE ELECTRICAL DRAWINGS.
- GAS METER/SERVICE - SEE PLUMBING DRAWINGS.
- PREMANUFACTURED AND PRIMED COOLER/FREEZER/STORAGE - BY MANUFACTURER. PAINT TO MATCH STUCCO.
- SIGNAGE FEATURE BY OWNER'S VENDOR. GENERAL CONTRACTOR TO COORDINATE INSTALLATION WITH STRUCTURE AND ELECTRICAL. COLOR: RED.
- CONCRETE SIDEWALK/CURB - SEE SITE PLAN.
- APPROXIMATE GRADE/PAVEMENT.
- STOREFRONT DOOR/WINDOW SYSTEM - SEE FLOOR PLAN FOR MORE INFORMATION.
- DRIVE-THRU WINDOW SYSTEM - SEE FLOOR PLAN FOR MORE INFORMATION.
- HOLLOW METAL DOOR AND FRAME - SEE DOOR SCHEDULE.
- GREASE COLLECTION UNIT - SEE EQUIPMENT PLAN.
- PEDESTRIAN GUARD RAIL - SEE CIVIL DRAWINGS.
- INSULATED METAL DOOR AND HOLLOW METAL FRAME PAINT TO MATCH STUCCO - SEE DOOR SCHEDULE.
- SIGNAGE FEATURE BY OWNER'S VENDOR. GENERAL CONTRACTOR TO COORDINATE INSTALLATION WITH STRUCTURE AND ELECTRICAL. COLOR: WHITE.

**EXTERIOR FINISH SCHEDULE**

CL-01	PREFINISHED ALUMINUM EDGE FLASHING - COLOR - RED - SW6866 HEARTHROB
CL-02	METAL FASCIA/ BRAKE METAL WRAP - MILL FINISH - CLEAR COAT
CL-03	PREFINISHED ALUMINUM EDGE OR DRIP FLASHING - COLOR - BLACK - SW6993 BLACK OF NIGHT
PE-01	HARD COAT STUCCO - PAREX - STYLE: MEDIUM SAND FINISH - COLOR - GRAY - SW 6002 ESSENTIAL GRAY
PE-02	HARD COAT STUCCO - PAREX - STYLE: MEDIUM SAND FINISH - COLOR - BLACK - SW6993 BLACK OF NIGHT
PE-03	HARD COAT STUCCO - PAREX - STYLE: MEDIUM SAND FINISH - COLOR - RED - PMS 20-0069 TM CANDY APPLE RED
PE-04	HARD COAT STUCCO - PAREX - STYLE: MEDIUM SAND FINISH - COLOR - WHITE - SW7005 PURE WHITE
AS-01	ALUMINUM STOREFRONT MILL FINISHED - COLOR: CLEAR COAT

\* REFER TO THE MOST CURRENT HWY 55 BRAND BOOK FOR ALL INTERIOR AND EXTERIOR COLORS - VERIFY ALL FINISHES WITH OWNER PRIOR TO PURCHASING



PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: EXTERIOR ELEVATIONS

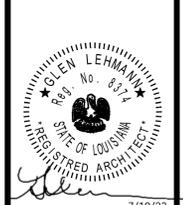
**Revisions**

THRU ADDENDUM "D"	11/21/2022

PROJECT DATE  
 06/29/2023  
 Drawn By  
 CDK  
 Checked By  
 GRL  
 Sheet No.  
**A201**



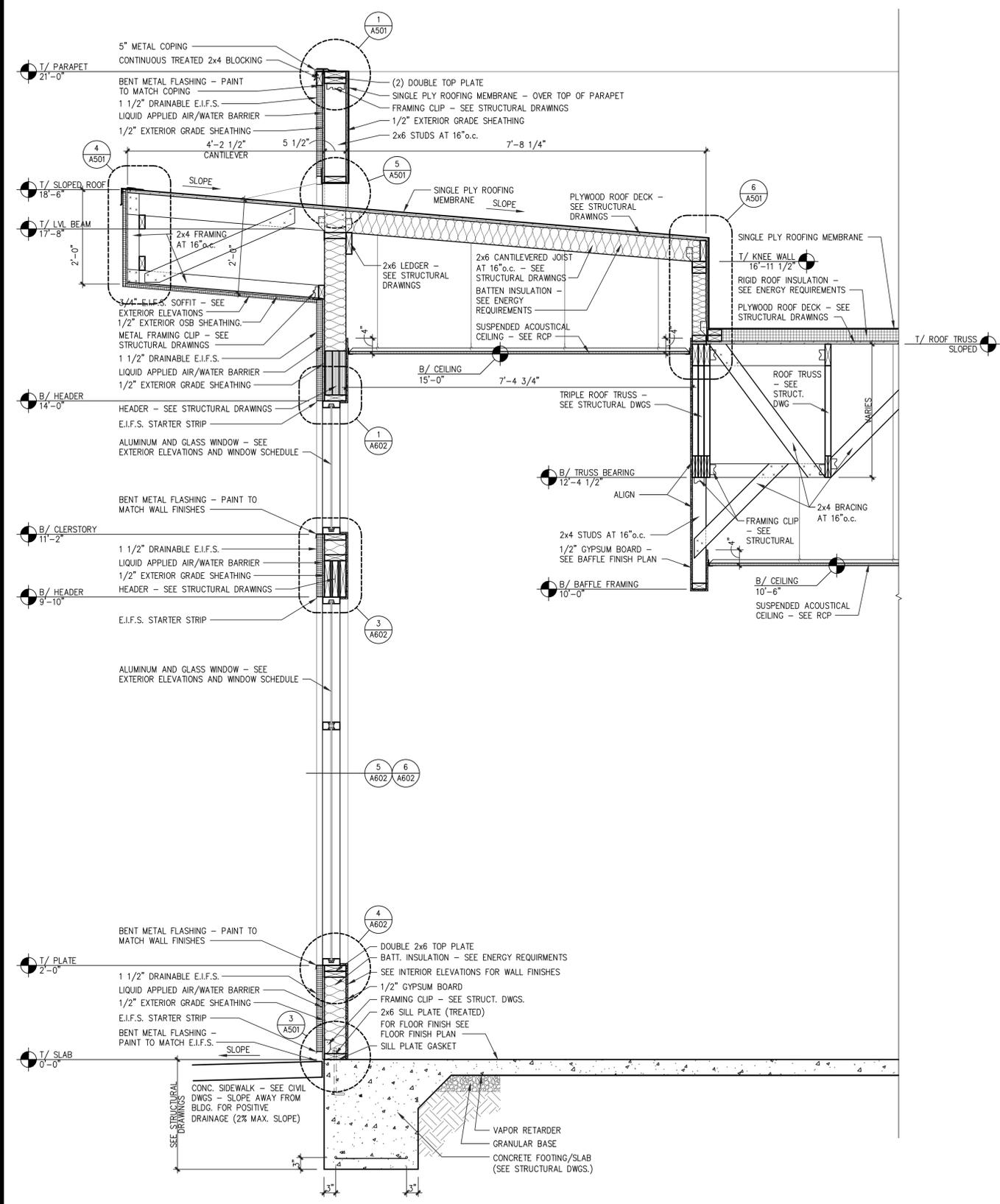




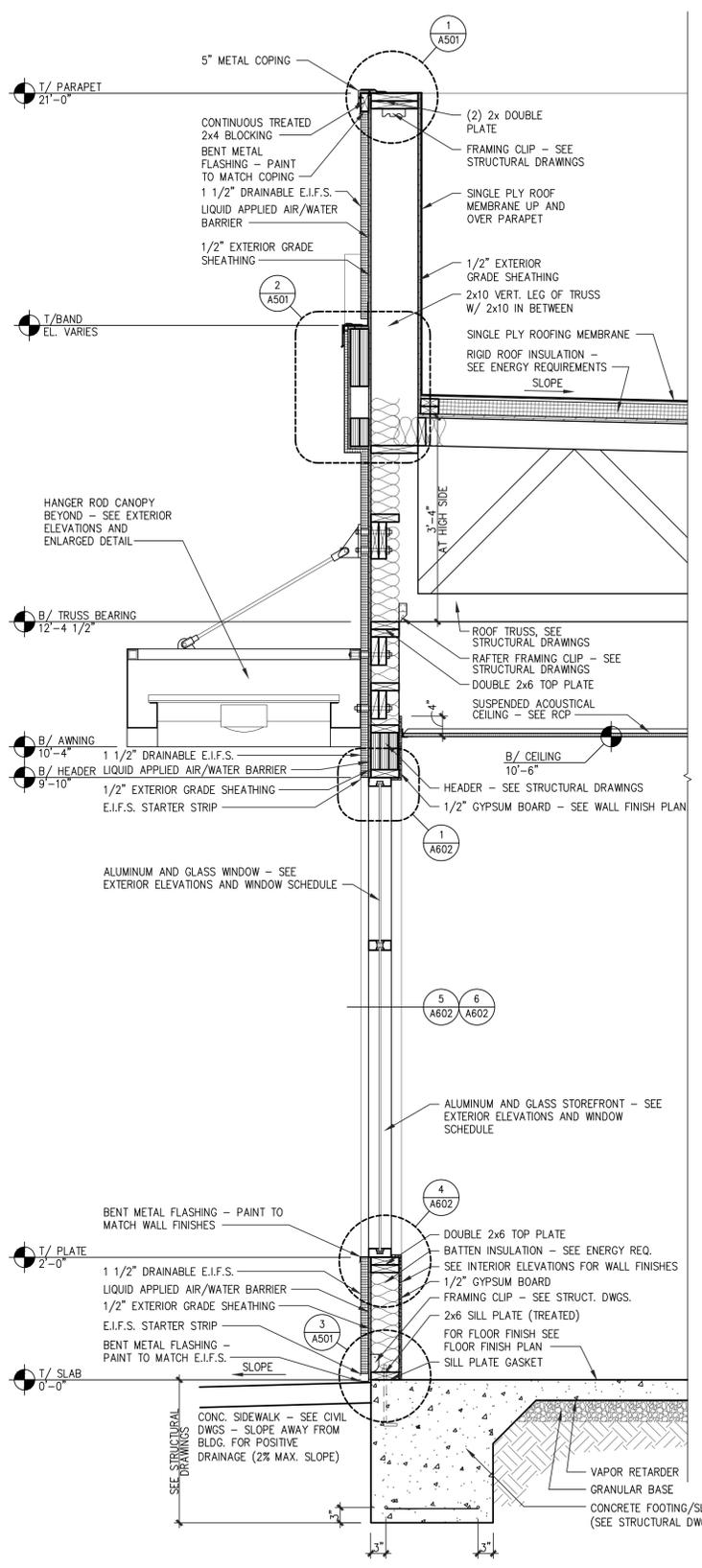
7/10/23

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: WALL SECTIONS

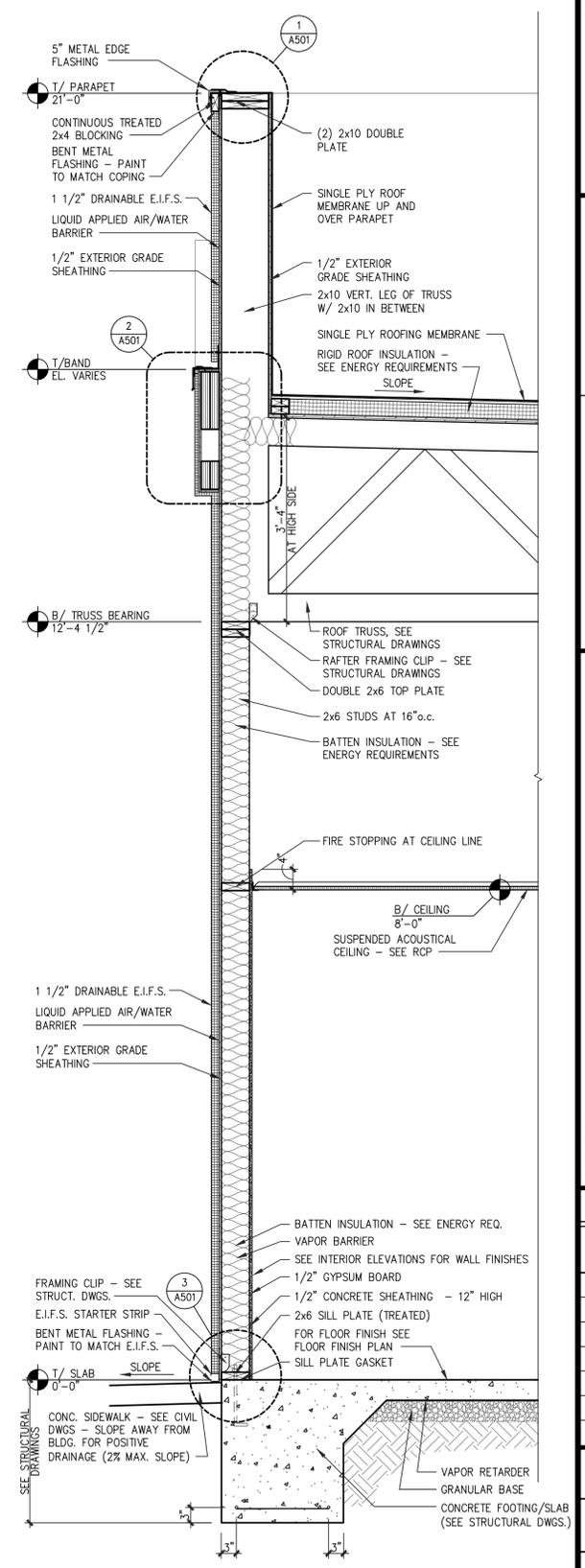
Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CIH
Checked By	GRL
Sheet No.	<b>A302</b>



**1 FRONT WALL SECTION**  
 SCALE: 3/4" = 1'-0"

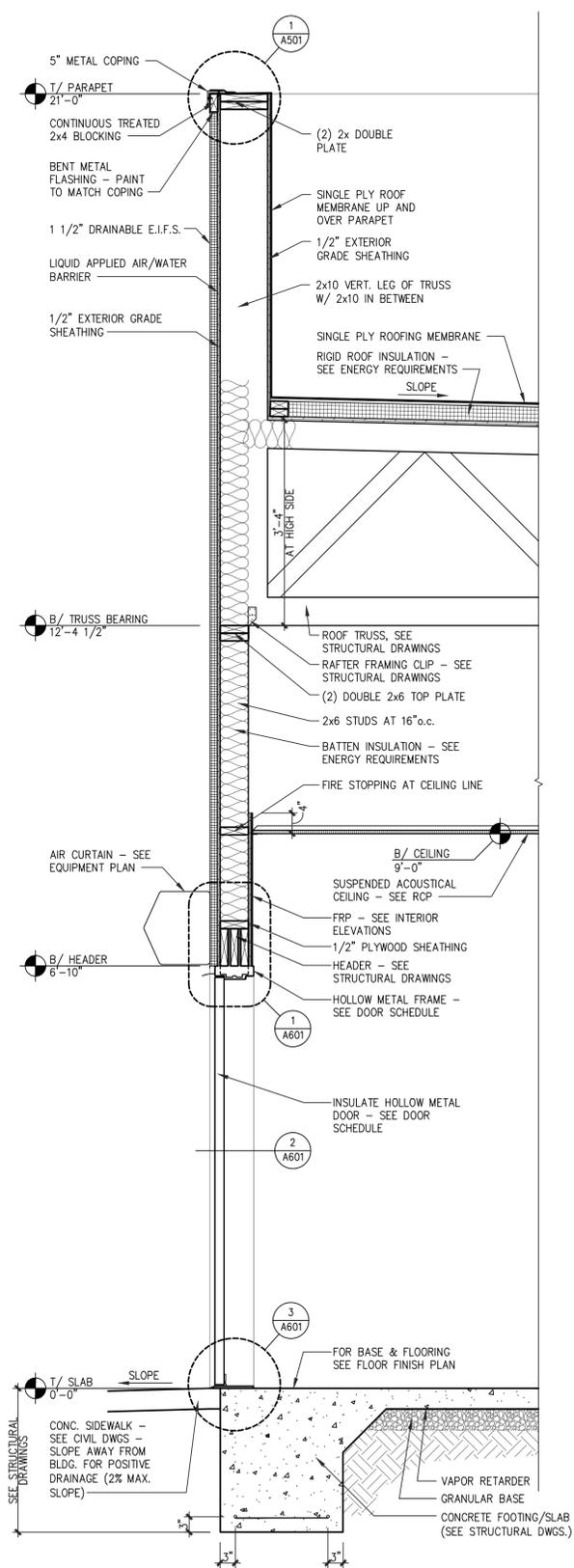


**2 SIDE WALL SECTION AT STOREFRONT**  
 SCALE: 3/4" = 1'-0"

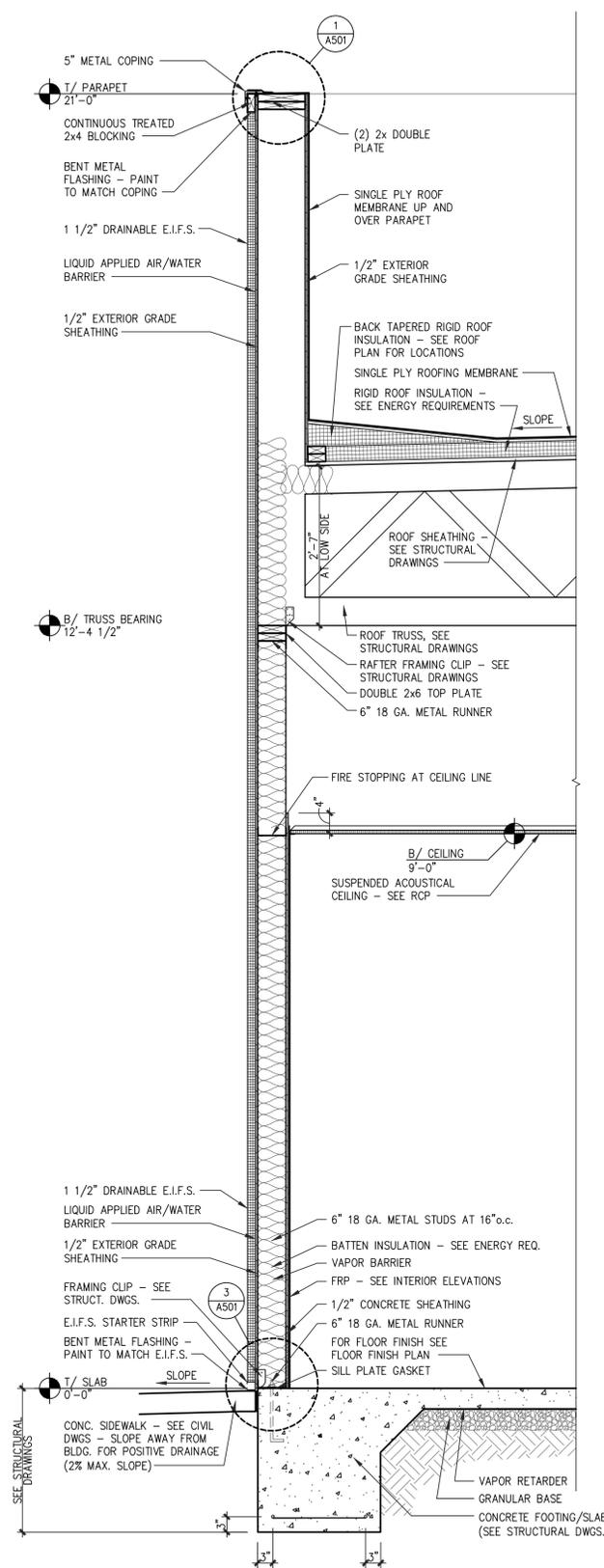


**3 FULL HEIGHT SIDE WALL SECTION**  
 SCALE: 3/4" = 1'-0"

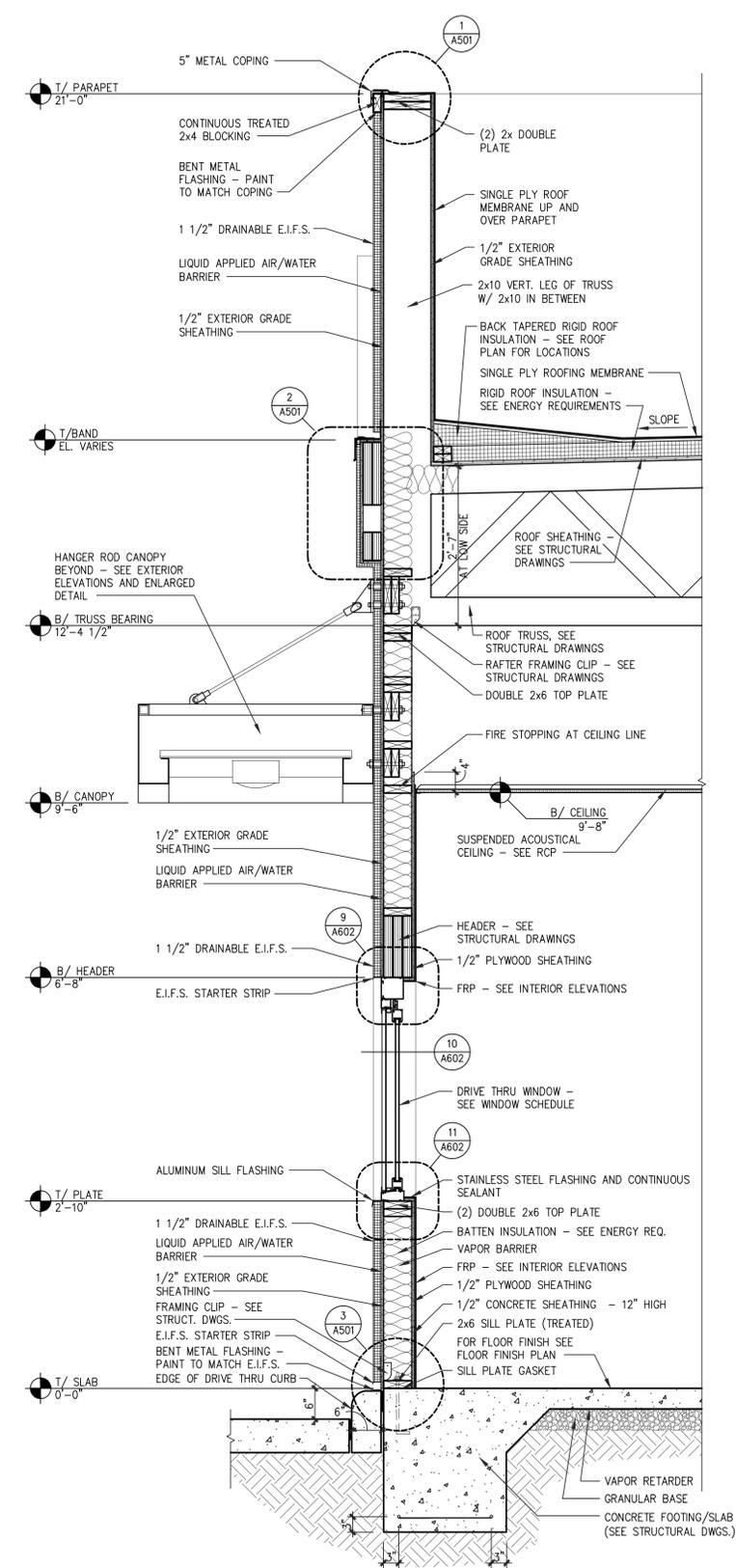
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 Plotted by: chudson  
 Plotted Date: Jul 10, 2023 10:57am



**1**  
**A303**  
**SIDE WALL SECTION AT HOLLOW METAL DOOR**  
 SCALE: 3/4" = 1'-0"



**2**  
**A303**  
**SIDE WALL SECTION AT NON-COMBUSTIBLE WALL**  
 SCALE: 3/4" = 1'-0"

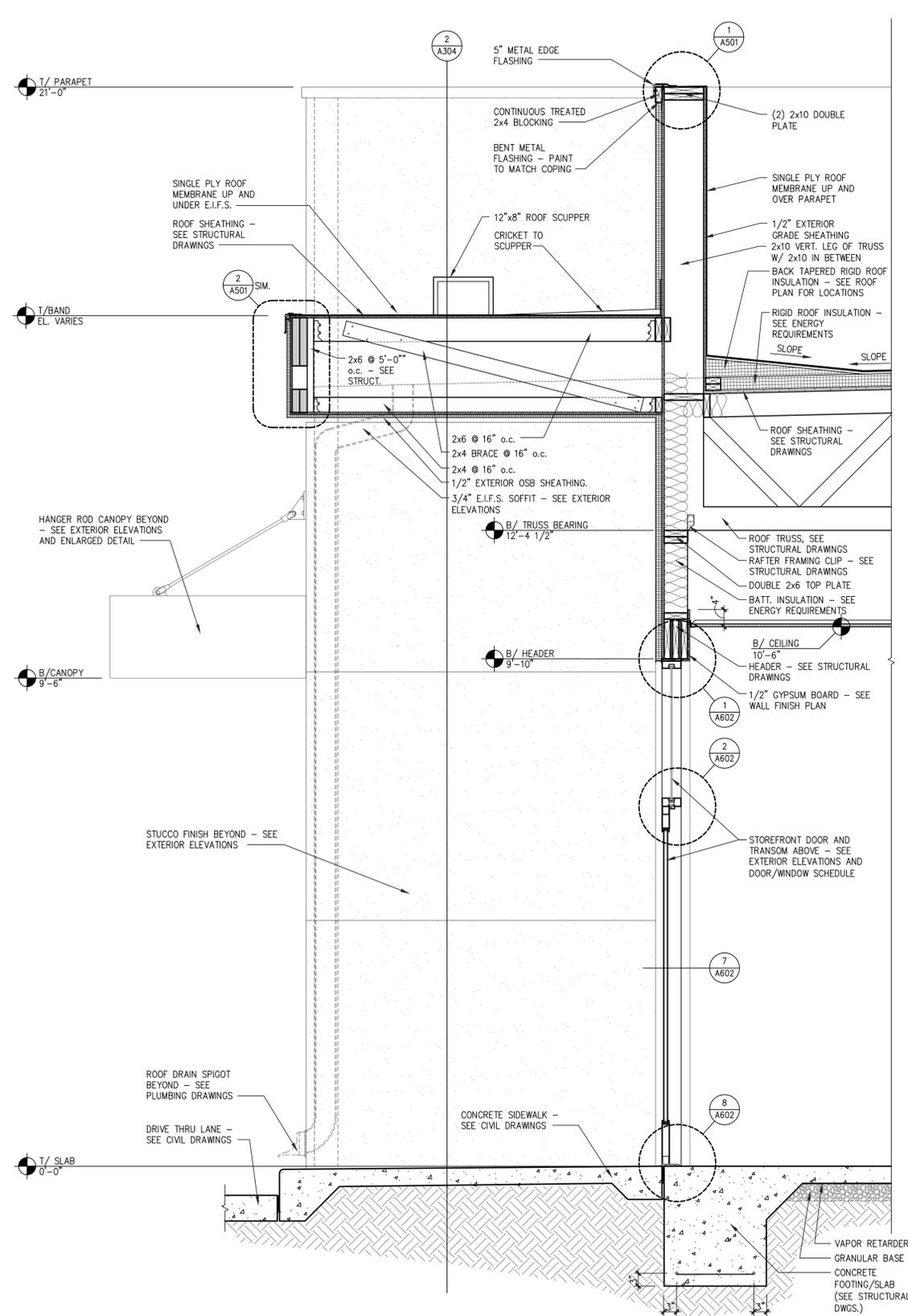


**3**  
**A303**  
**WALL SECTION AT DRIVE THRU WINDOW**  
 SCALE: 3/4" = 1'-0"

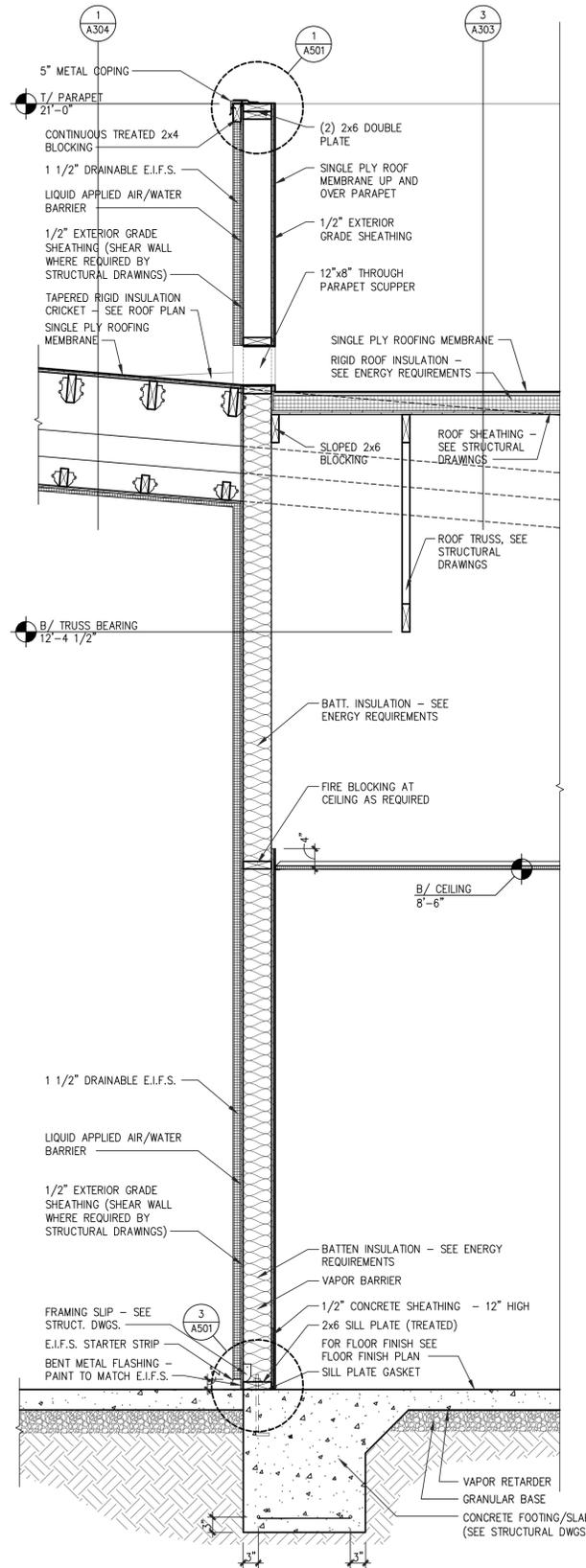
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PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: WALL SECTIONS

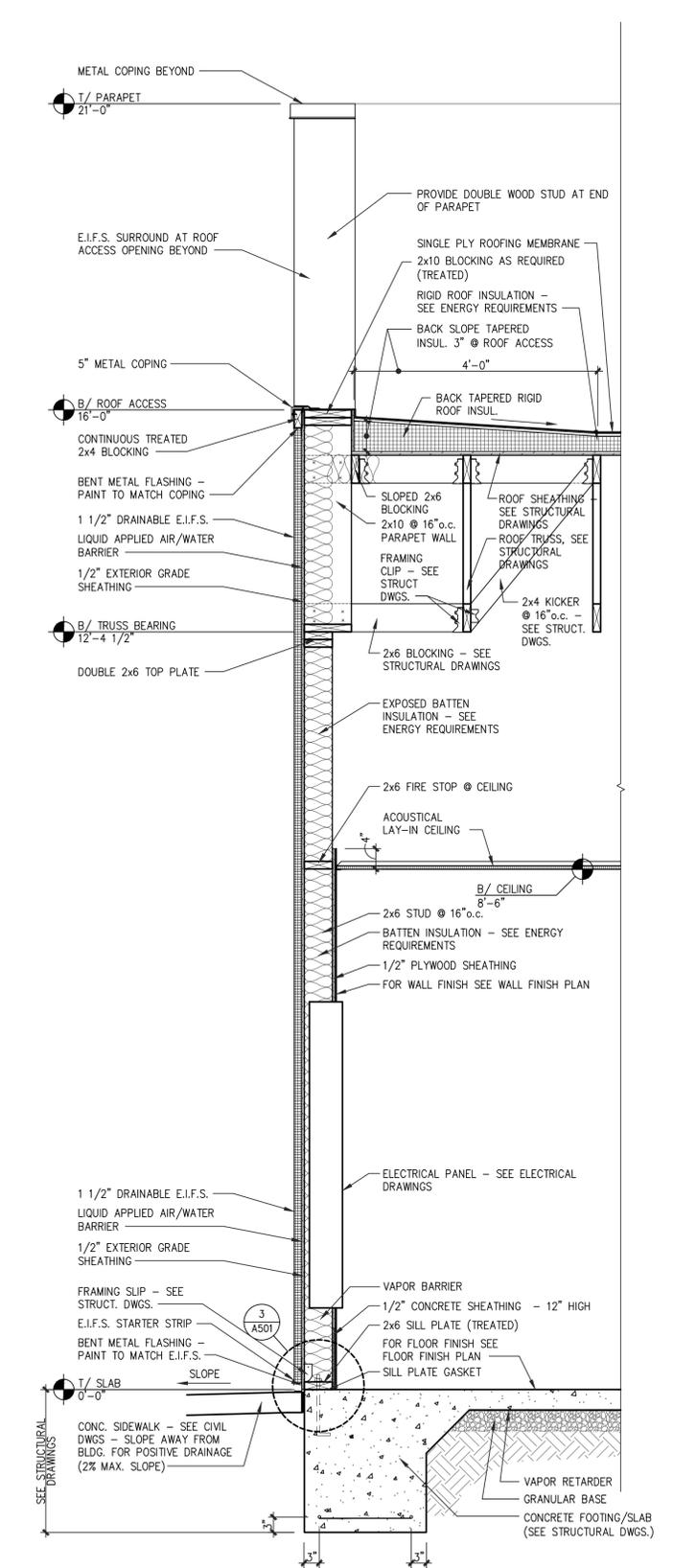
Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CIH
Checked By	GRL
Sheet No.	<b>A303</b>



**1**  
**A304**  
**SIDE WALL SECTION AT ENTRY DOOR**  
 SCALE: 3/4" = 1'-0"



**2**  
**A304**  
**SLOPE ROOF AT DRIVE THRU WALL**  
 SCALE: 3/4" = 1'-0"



**3**  
**A304**  
**REAR WALL SECTION AT ROOF ACCESS**  
 SCALE: 3/4" = 1'-0"

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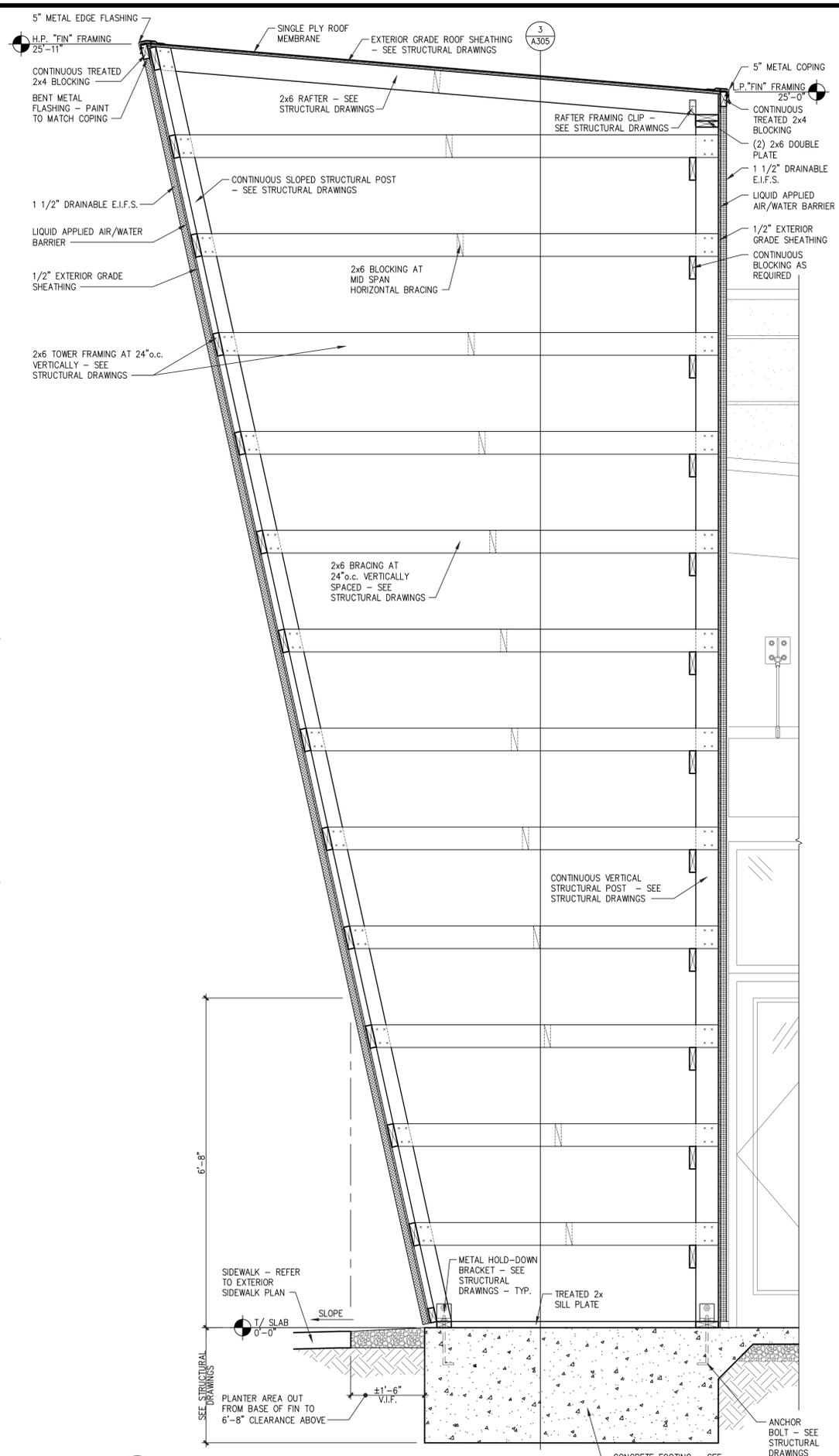
7/10/23

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: WALL SECTIONS

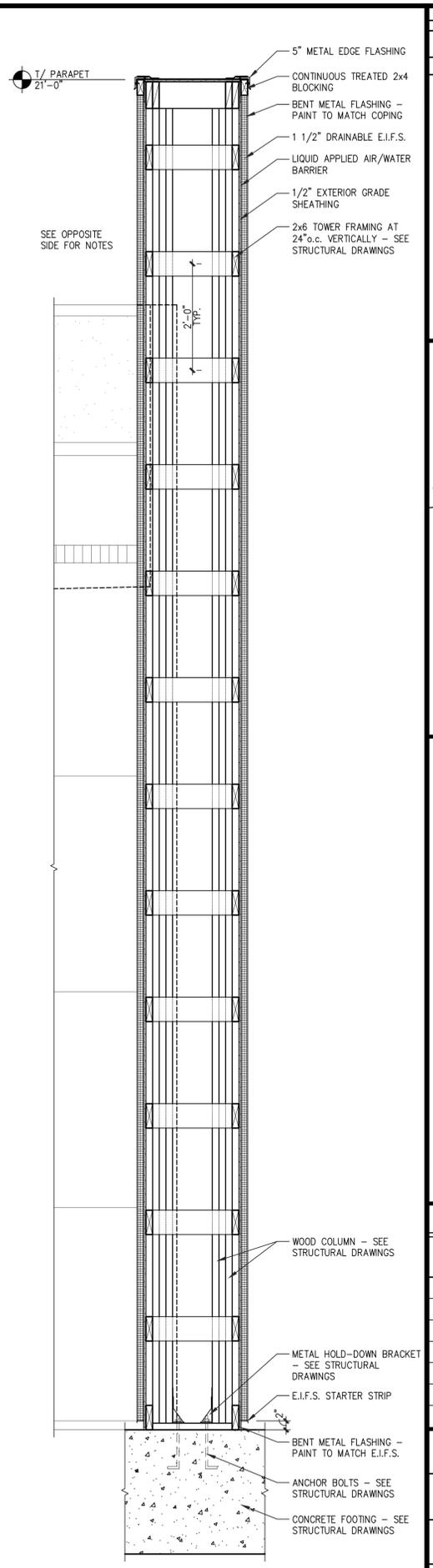
Revisions	
THRU ADDENDUM "D"	11/21/2022

PROJECT DATE  
 06/29/2023  
 Drawn By  
 CIH  
 Checked By  
 GRL

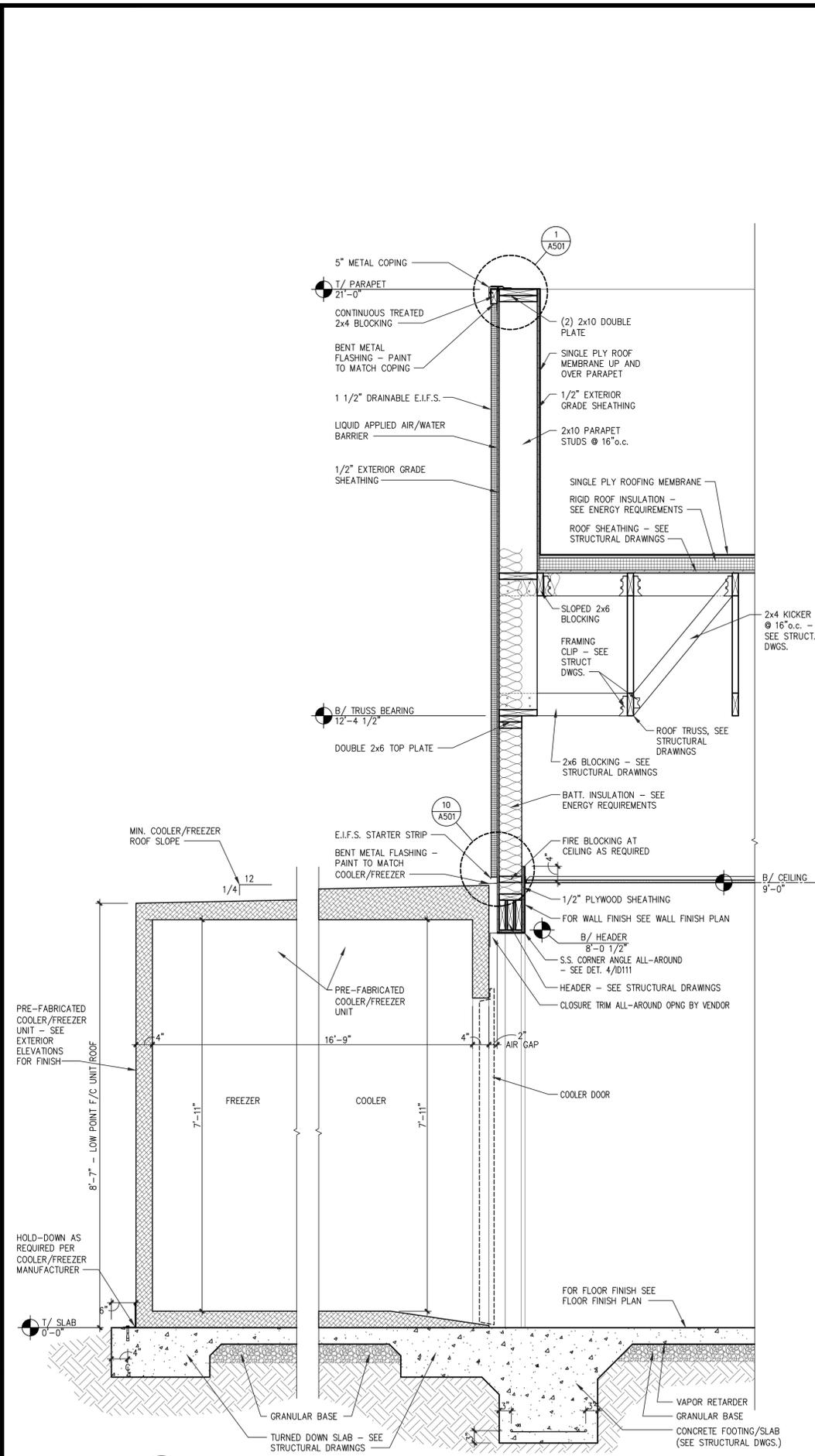
Sheet No.  
**A305**



**2 WALL SECTION AT 'FIN' ELEMENT**  
 SCALE: 3/4" = 1'-0"



**3 CROSS SECTION AT 'FIN' ELEMENT**  
 SCALE: 3/4" = 1'-0"

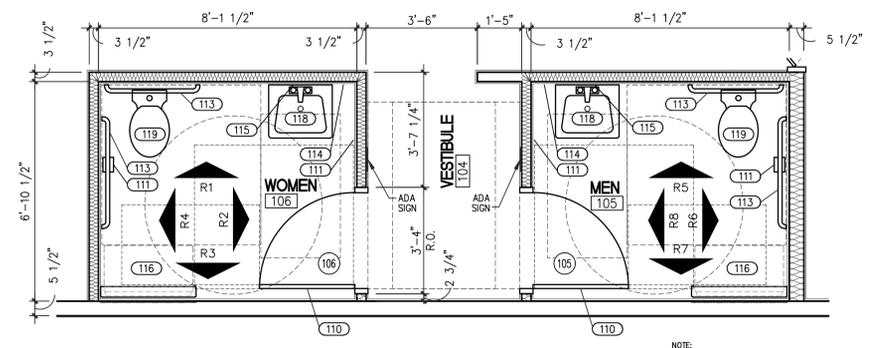


**1 REAR WALL SECTION AT COOLER/FREEZER**  
 SCALE: 3/4" = 1'-0"

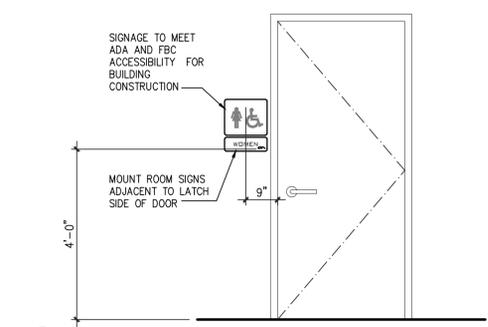
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 Plotted by: chudson  
 Plotted Date: Jul 10, 2023 10:57am

TOILET ACCESSORIES			
TAG	ACCESSORY	SPECIFICATION	NOTES
(110)	DOUBLE COAT HOOK	BOBRICK CLASSIC SERIES-IN EACH TOILET STALL, ON BACK OF DOOR B-6727	COAT HOOK - MOUNTED AT 48" A.F.F. OF TOILET STALL DOOR
(111)	TOILET PAPER DISPENSER	FURNISHED BY OWNERS VENDOR	SURFACE MOUNT
(112)	S/S WASTE RECEPTACLE	21 GALLON BOBRICK WASHROOM EQUIPMENT, UNDER COUNTER B-2250	
(113)	GRAB BARS S/S 1 1/2" DIAMETER - BOBRICK	B-6806	PROVIDE BLOCKING AS REQUIRED
(114)	SOAP DISPENSER	FURNISHED BY OWNERS VENDOR	SURFACE MOUNT
(115)	WALL MOUNTED MIRROR	30" W X 36" H MIRROR WITH S/S FRAME TYP.	
(116)	BABY CHANGING STATION	KOALA KARE - RB200 (COLOR BY OWNER)	WALL MOUNTED BABY CHANGING STATION - MOUNT CHANGERS SURFACE AT 34" A.F.F.
(117)	SANITARY NAPKIN DISPOSAL	BOBRICK WASHROOM EQUIPMENT - SURFACE MOUNT S/S CONTURA SERIES B-270	
(118)	WALL HUNG LAVATORY	-	SEE PLUMBING DRAWINGS
(119)	WATER CLOSET	-	SEE PLUMBING DRAWINGS

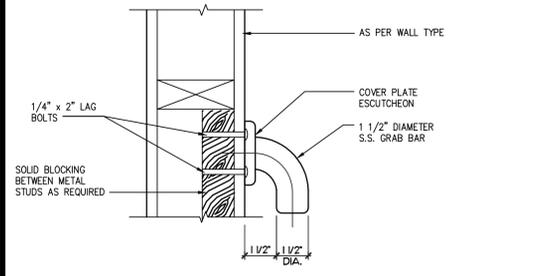
NOTE:  
 OWNERS VENDOR TO PROVIDE PAPER TOWEL, TOILET PAPER DISPENSERS AND SOAP DISPENSERS, OWNER TO INSTALL.



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

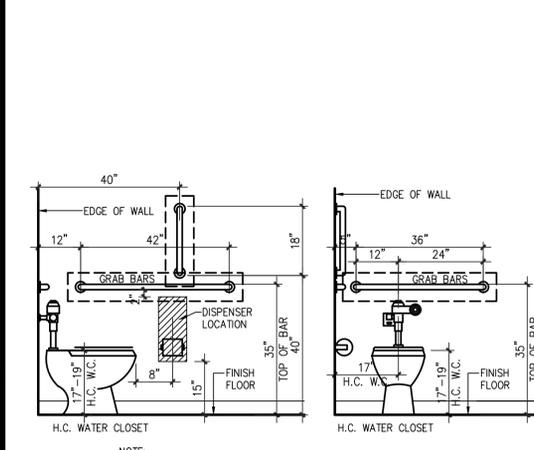
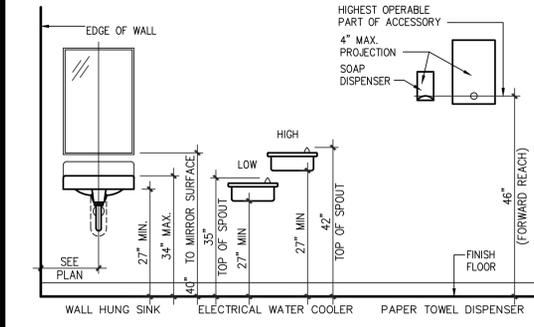


A H.C. SIGN MOUNTING DETAIL  
 SCALE: 1/2" = 1'-0"



NOTE:  
 ALL GRAB BARS INCLUDING THOSE MOUNTED AT TUBS, SHOWERS, AND TOILETS AND TOILET MOUNTED GRAB BARS SHALL BE DESIGNED AND SUPPORTED AS TO WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT DOWNWARD OR HORIZONTALLY AS REQUIRED BY THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. (PROVIDE SUFFICIENT BLOCKING BEHIND EACH GRAB BAR INSTALLATION)

B GRAB BAR ANCHORING DETAIL  
 SCALE: 3" = 1'-0"



NOTE:  
 1. TYPICAL MOUNTING HEIGHTS UNLESS OTHERWISE NOTED  
 2. THE FLUSH VALVE MUST BE LOCATED ON THE APPROACH SIDE OF ANY ACCESSIBLE WATER CLOSET

C TYPICAL MOUNTING HEIGHTS  
 SCALE: 1/2" = 1'-0"

**GENERAL NOTES**

- FOR TYPICAL H.C. SIGN MOUNTING DETAIL, SEE DETAIL A/A401.
- FOR TYPICAL GRAB BAR ANCHORING DETAIL, SEE DETAIL B/A401.
- FOR TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS, SEE DETAIL C/A401.
- FOR CEILING HEIGHTS, SEE REFLECTED CEILING PLAN.
- SOME KEYED NOTES AND ACCESSORIES DO NOT APPLY UNLESS REFERENCED IN THIS PROJECT.
- SEE 1111 SHEET FOR FINISH SCHEDULE AND MATERIAL LEGEND.
- ALL SHELVING AND HARDWARE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.
- OPERATING CONTROLS OF ALL PAPER TOWEL DISPENSER, SOAP DISPENSERS AND MULTI-PURPOSE UNITS TO BE AS SHOWN ON DETAIL C/A401.
- SEE INTERIOR FINISH SELECTIONS PACKET FOR MORE INFORMATION.
- ALL TOILET ROOM WALLS ARE FULL HEIGHT TO STRUCTURE AND INSULATED FOR SOUND.

**Revisions**

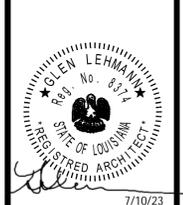
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1	THRU ADDENDUM "D"	11/21/2022

PROJECT DATE  
 06/29/2023

Drawn By  
 CIH

Checked By  
 GRL

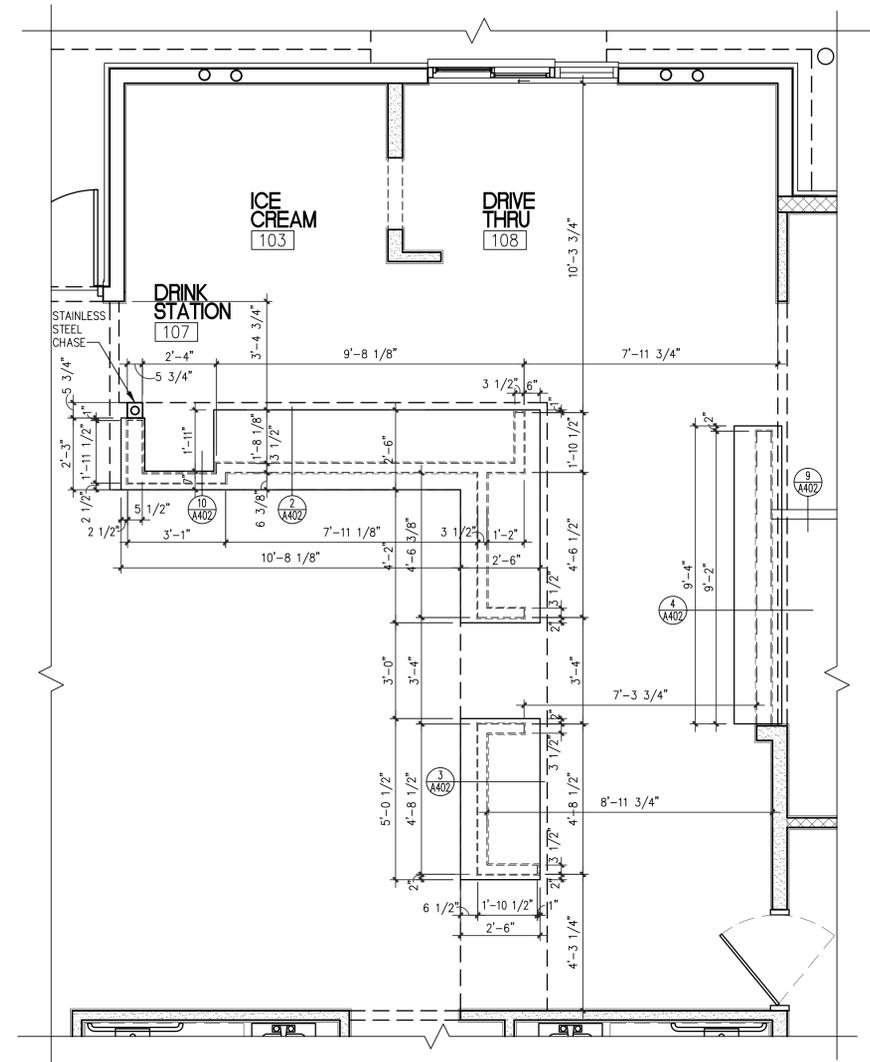
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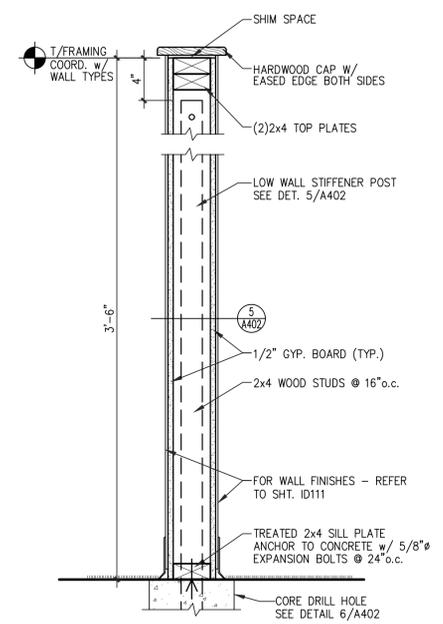
7/10/23

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: **BARTOP COUNTER PLAN**

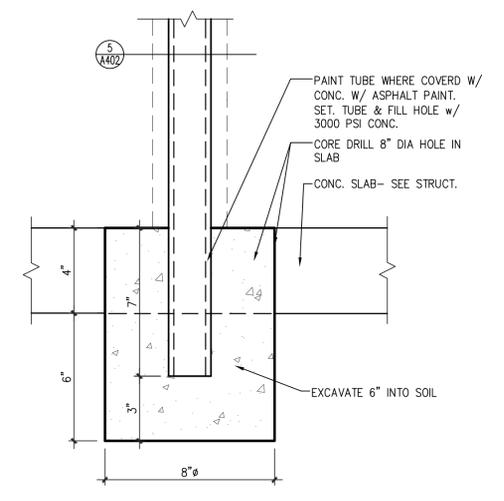
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PROJECT DATE	06/29/2023
Drawn By	CIH
Checked By	GRL
Sheet No.	<b>A402</b>



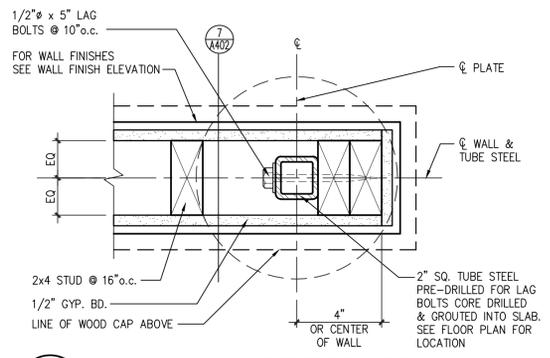
**1 PLAN OF BARTOP COUNTER**  
 A402 SCALE: 3/8" = 1'-0"



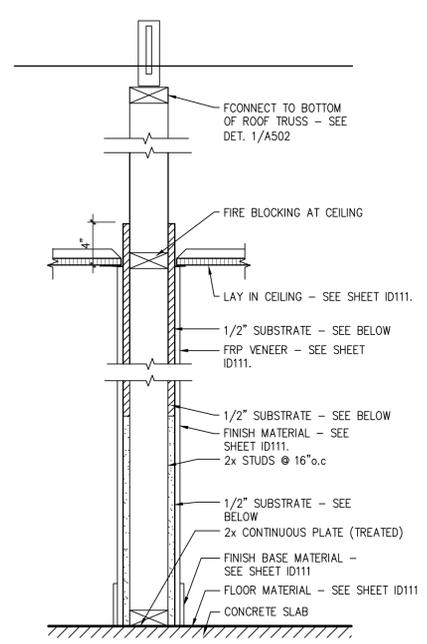
**7 LOW WALL • DINING**  
 A402 SCALE: 1 1/2" = 1'-0"



**6 LOW WALL STIFFENER**  
 A402 SCALE: 3" = 1'-0"

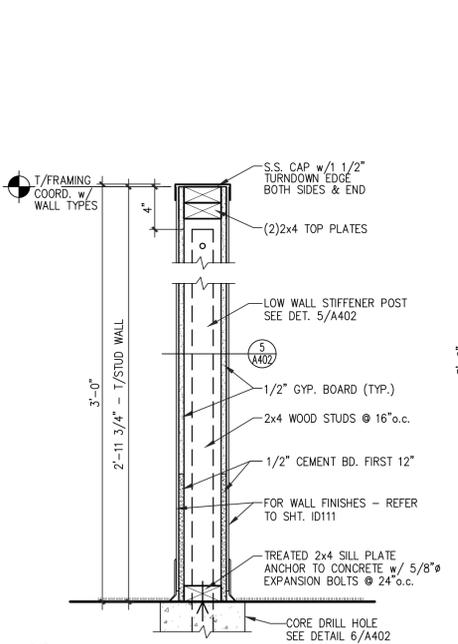


**5 LOW WALL STIFFENER**  
 A402 SCALE: 3" = 1'-0"  
 NOTE: END CONDITION SHOWN - INTERMEDIATE COND. SIM. - FIELD LOCATE

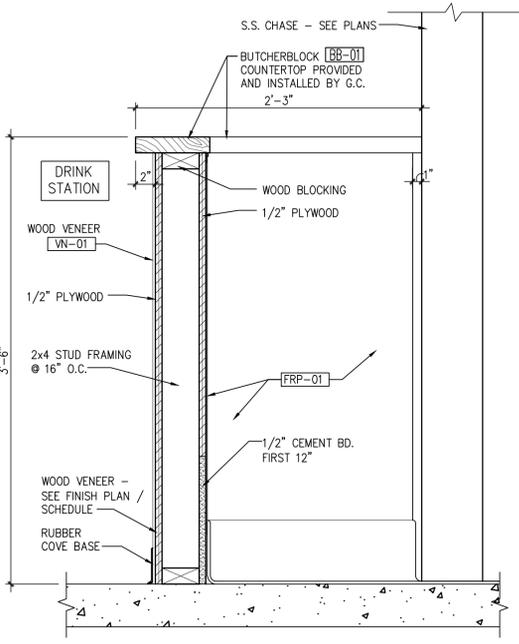


TYPICAL SUBSTRATES FOR INTERIOR WALLS SHALL BE AS FOLLOWS:  
 KITCHEN AREAS:  
 1/2" CEMENT BD. (WHERE TILE OR STAINLESS STEEL IS USED)  
 0'-0" TO 1'-0" - 1/2" CEMENT BD.  
 1'-0" AND ABOVE - 1/2" PLYWOOD (WHERE FRP IS USED)  
 DRINK STATION, ICE CREAM AND DRIVE THRU:  
 1/2" CEMENT BOARD (WHERE TILE IS USED)  
 SEATING AREAS, TOILETS AND VESTIBULE:  
 1/2" GYPSUM BOARD  
 1/2" CEMENT BOARD (WHERE TILE IS USED)  
 BACK ROOM AND MECHANICAL:  
 1/2" MIN. PLYWOOD  
 1/2" CEMENT BOARD FIRST 12"

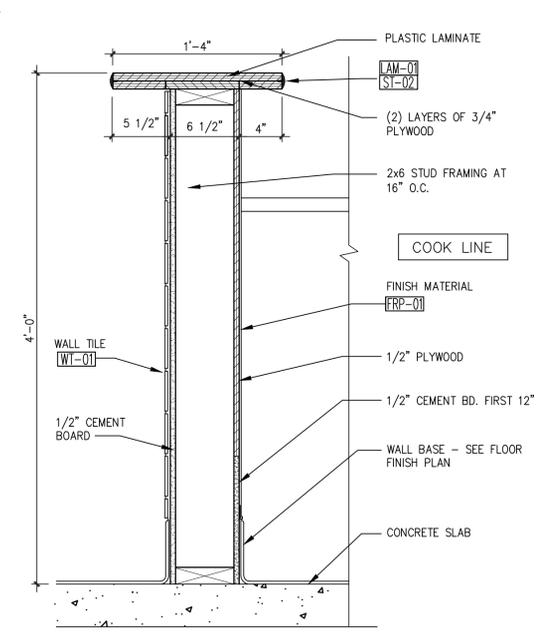
**8 TYPICAL INTERIOR WALL DETAIL**  
 A402 SCALE: 1 1/2" = 1'-0"



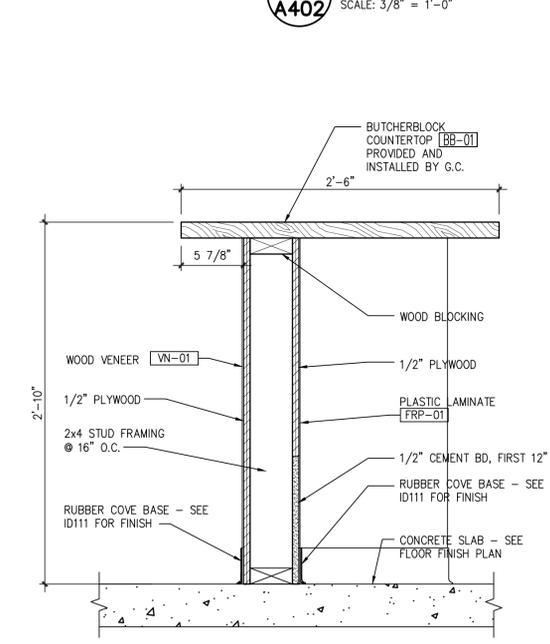
**9 LOW WALL • COOKLINE**  
 A402 SCALE: 1 1/2" = 1'-0"



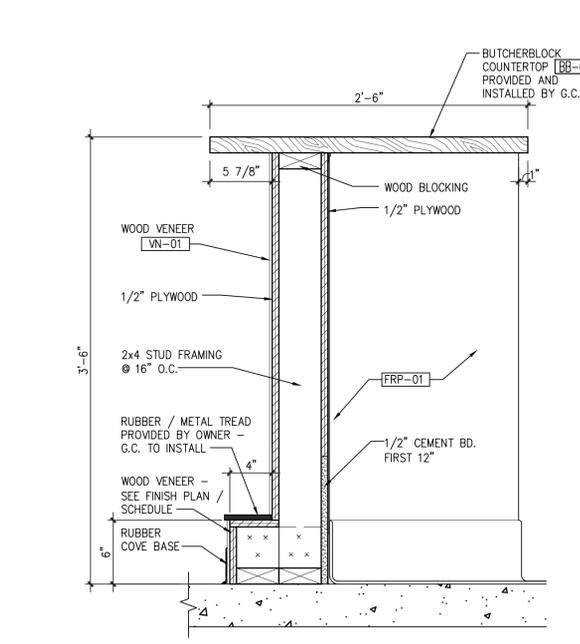
**10 BAR COUNTER - SECTION**  
 A402 SCALE: 1 1/2" = 1'-0"



**4 PICK-UP COUNTER DETAIL**  
 A402 SCALE: 1" = 1'-0"

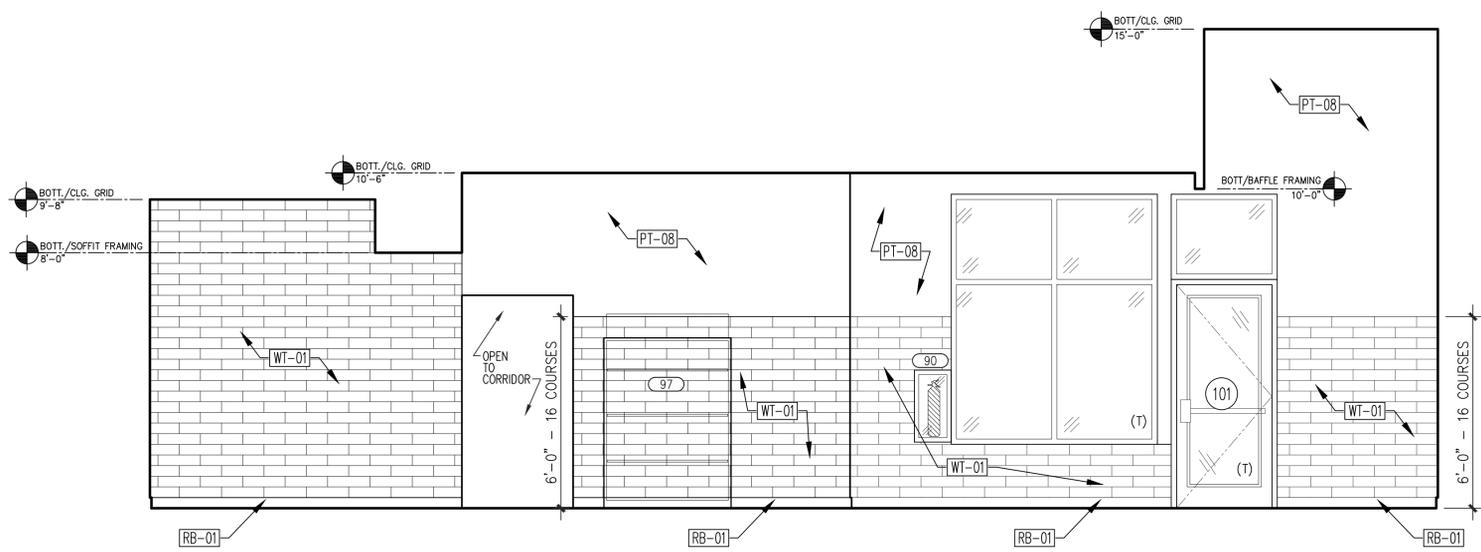


**3 BAR COUNTER - ADA SECTION**  
 A402 SCALE: 1 1/2" = 1'-0"

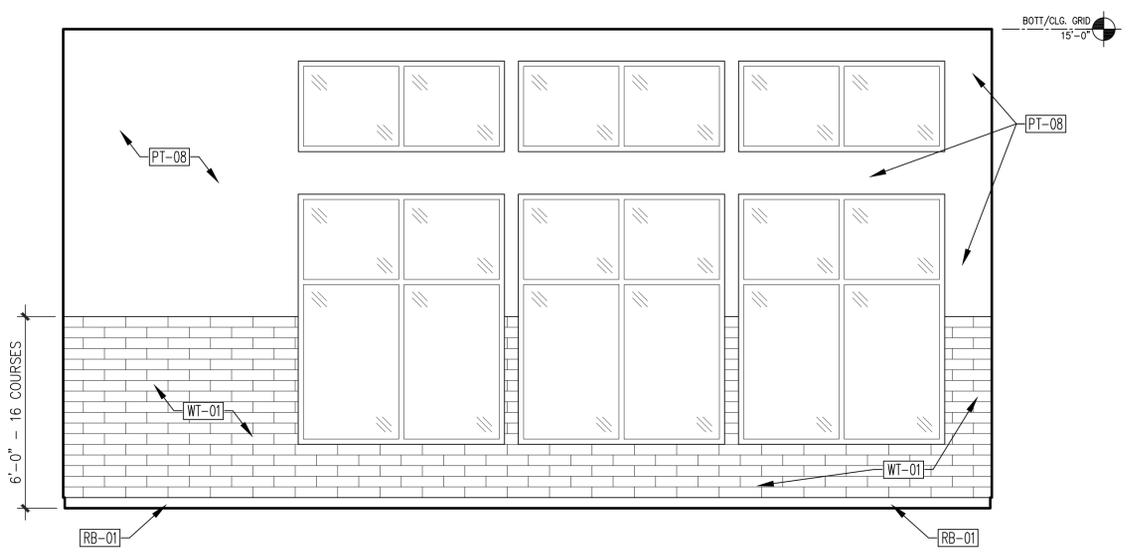


**2 BAR COUNTER - SECTION**  
 A402 SCALE: 1 1/2" = 1'-0"

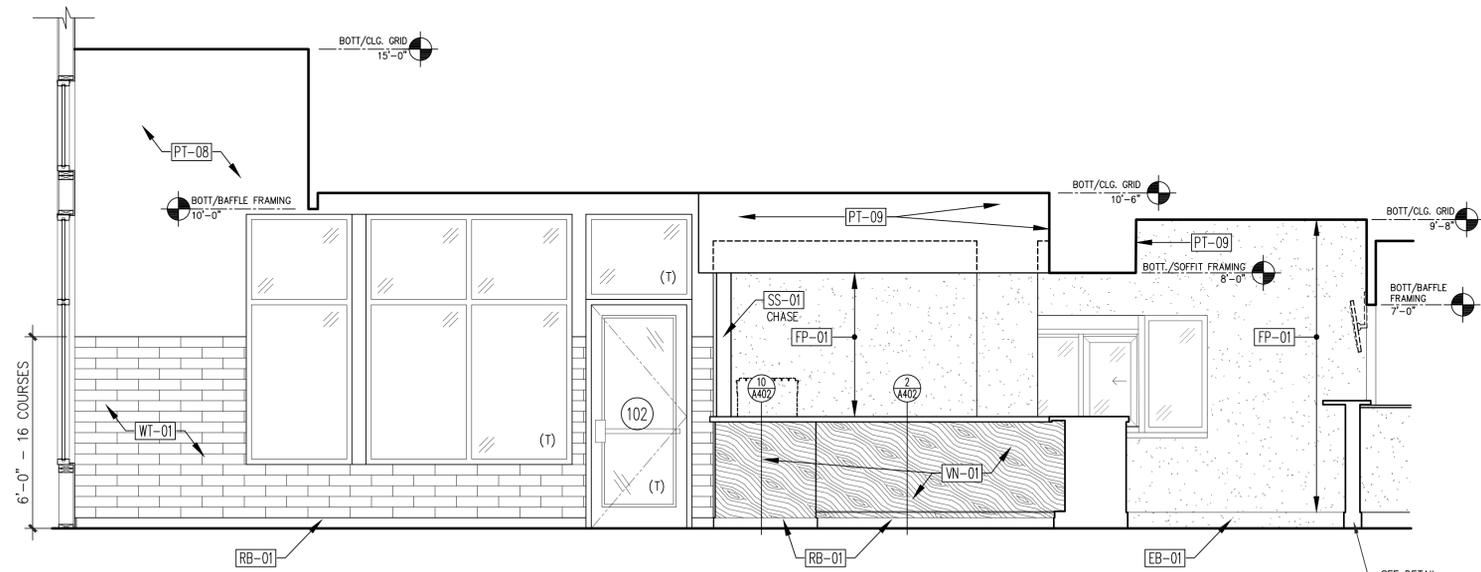
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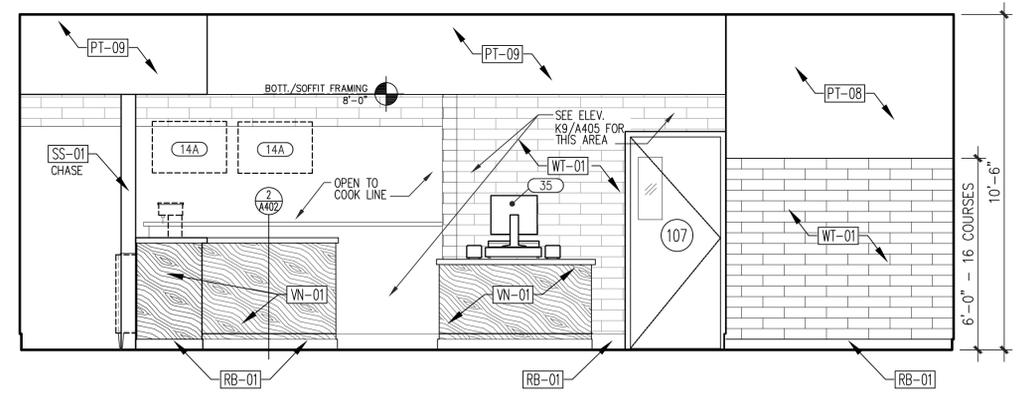
**ELEV. D1**  
 SCALE: 3/8" = 1'-0"



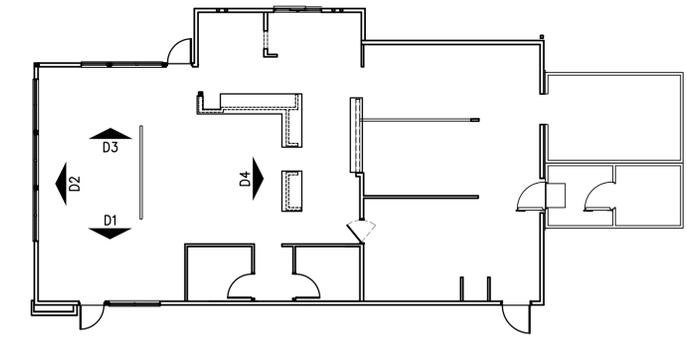
**ELEV. D2**  
 SCALE: 3/8" = 1'-0"



**ELEV. D3**  
 SCALE: 3/8" = 1'-0"



**ELEV. D4**  
 SCALE: 3/8" = 1'-0"



**KEY PLAN**  
 NOT TO SCALE  
 SEE SHEETS A404 & A405 FOR ADDITIONAL INTERIOR ELEVATIONS

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: INTERIOR ELEVATIONS

Revisions

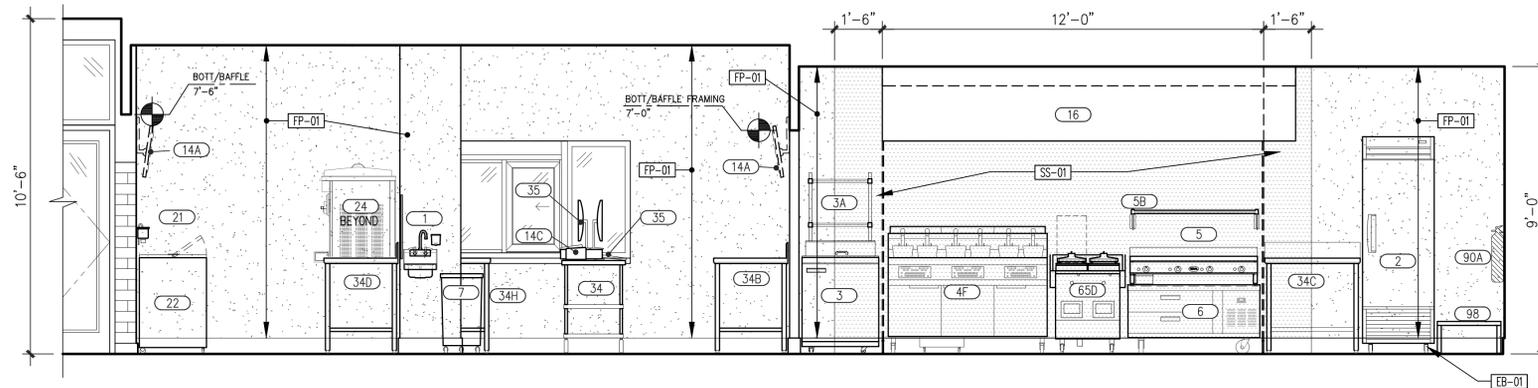
THRU ADDENDUM "D"
11/21/2022

PROJECT DATE  
 06/29/2023  
 Drawn By  
 CDK  
 Checked By  
 GRL  
 Sheet No.

**A403**

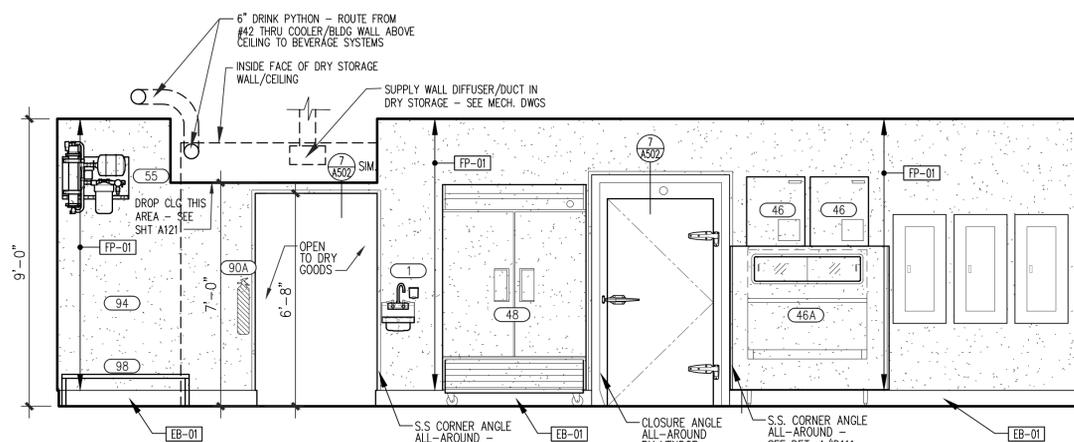


7/10/23



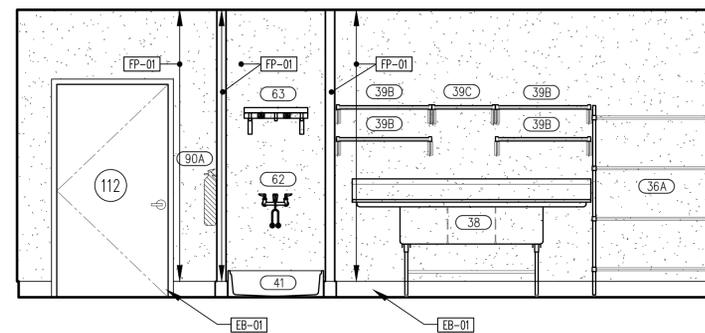
**ELEV. K1**

SCALE: 3/8" = 1'-0"



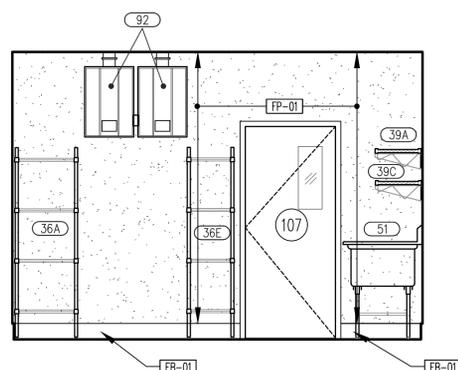
**ELEV. K2**

SCALE: 3/8" = 1'-0"



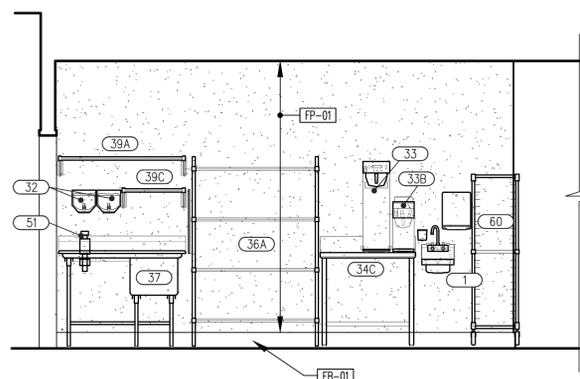
**ELEV. K3**

SCALE: 3/8" = 1'-0"



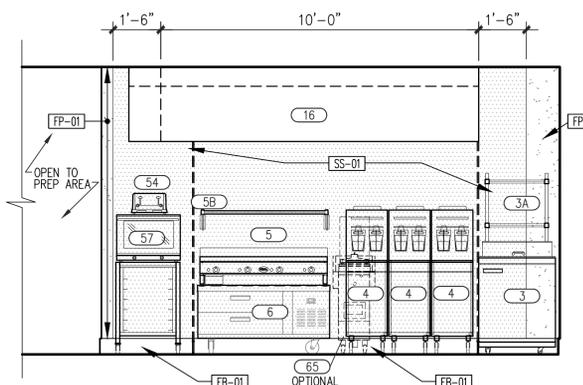
**ELEV. K4**

SCALE: 3/8" = 1'-0"



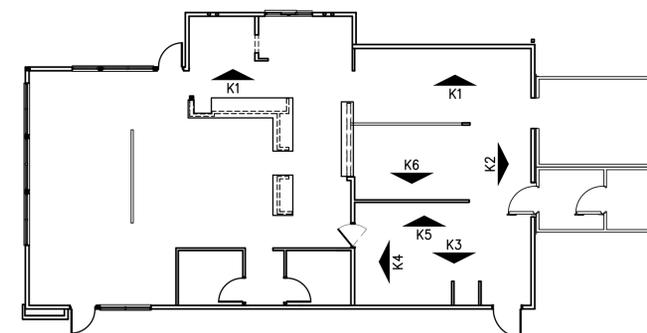
**ELEV. K5**

SCALE: 3/8" = 1'-0"



**ELEV. K6**

SCALE: 3/8" = 1'-0"



**KEY PLAN**

NOT TO SCALE  
 SEE SHEETS A403 & A405 FOR ADDITIONAL INTERIOR ELEVATIONS

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE

3236 HWY 190  
 HAMMOND, LA 70401

DRAWING: INTERIOR ELEVATIONS

**Revisions**

THRU ADDENDUM "D"  
 11/21/2022

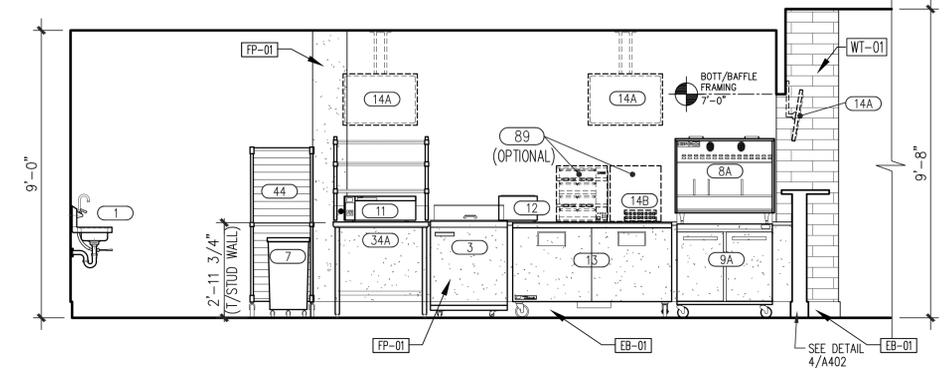
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Drawn By  
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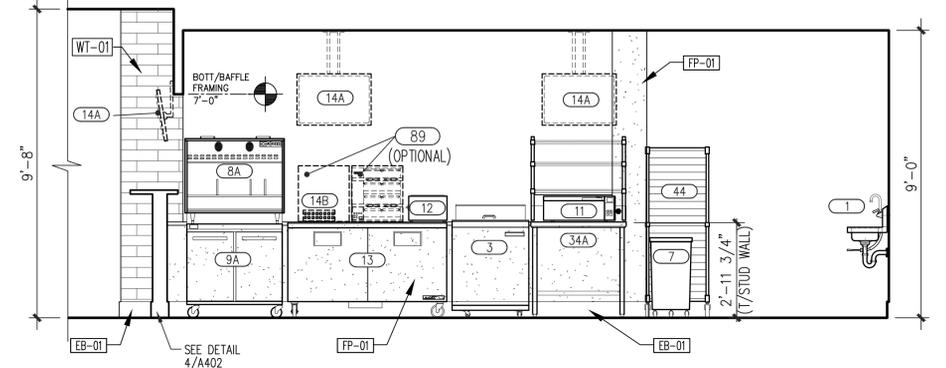
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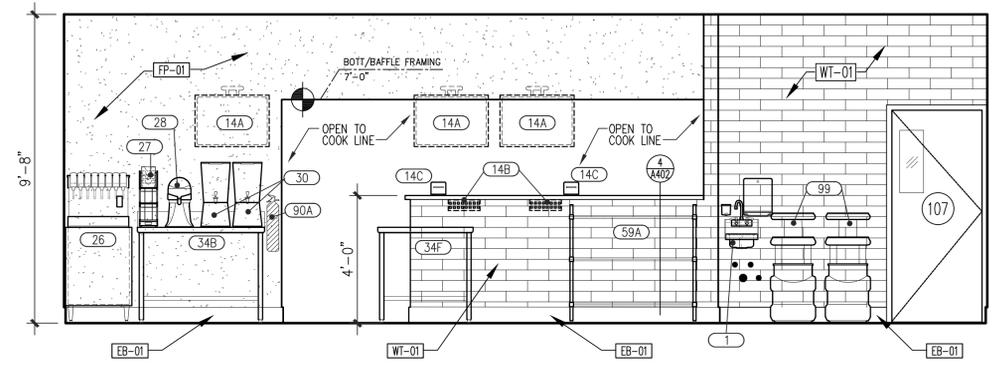
**A404**



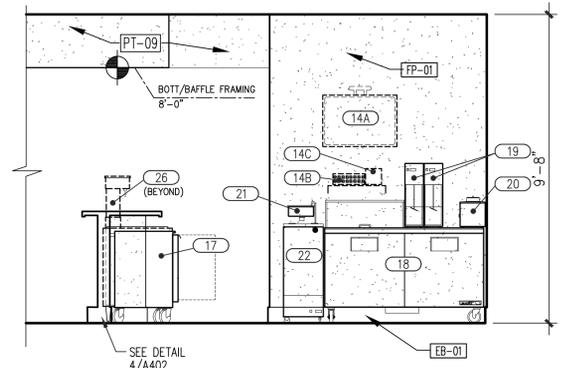
**ELEV. K7**  
 SCALE: 3/8" = 1'-0"



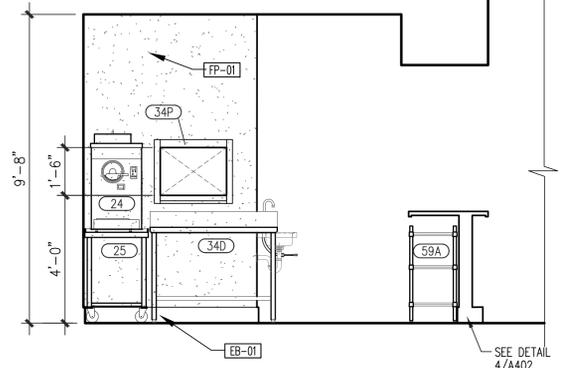
**ELEV. K8**  
 SCALE: 3/8" = 1'-0"



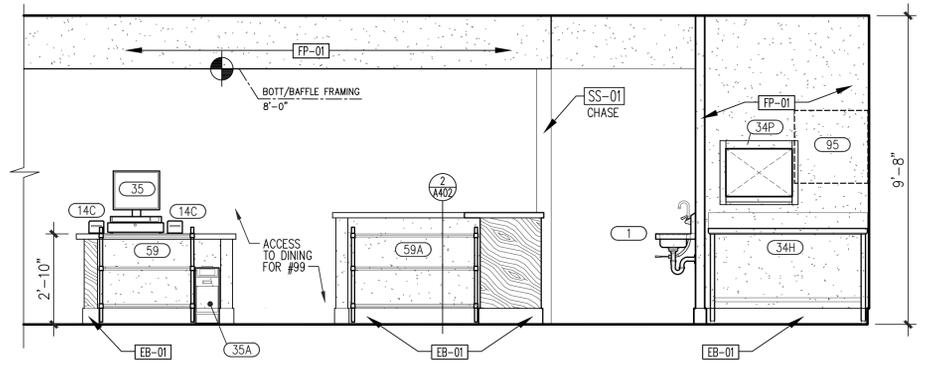
**ELEV. K9**  
 SCALE: 3/8" = 1'-0"



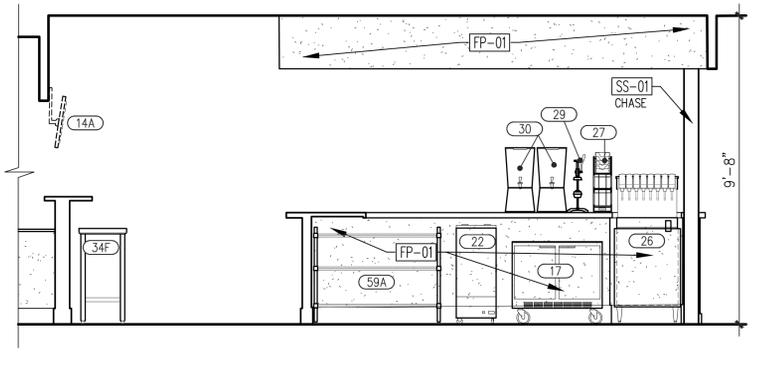
**ELEV. K10**  
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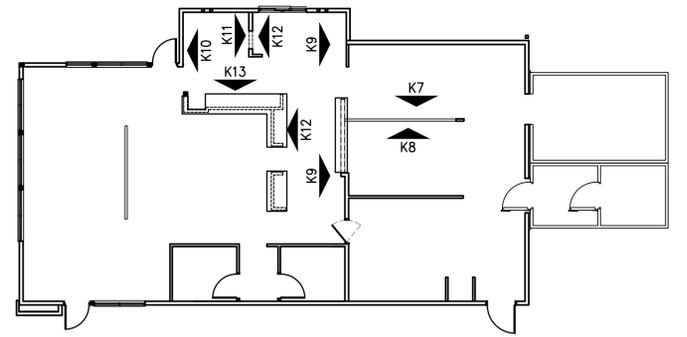
**ELEV. K11**  
 SCALE: 3/8" = 1'-0"



**ELEV. K12**  
 SCALE: 3/8" = 1'-0"



**ELEV. K13**  
 SCALE: 3/8" = 1'-0"



**KEY PLAN**

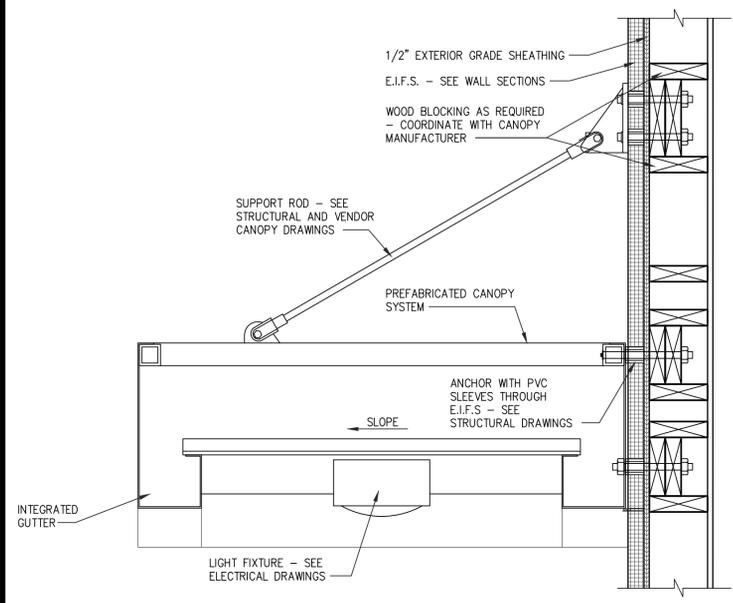
NOT TO SCALE  
 SEE SHEETS A403 & A404 FOR ADDITIONAL INTERIOR ELEVATIONS

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: INTERIOR ELEVATIONS

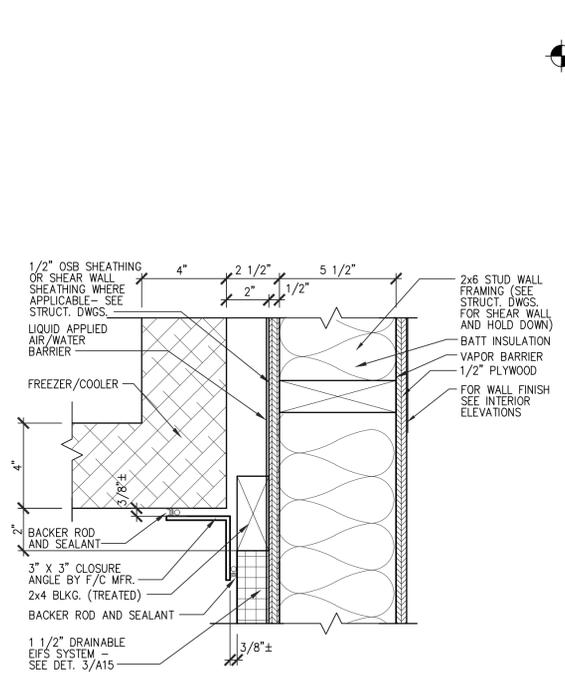
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 11/21/2022

PROJECT DATE  
 06/29/2023  
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 CDK  
 Checked By  
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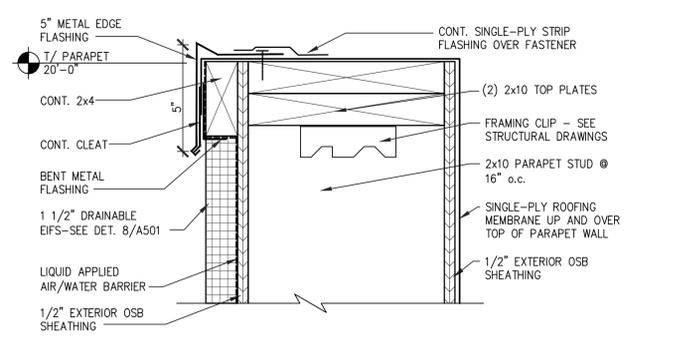
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**A405**



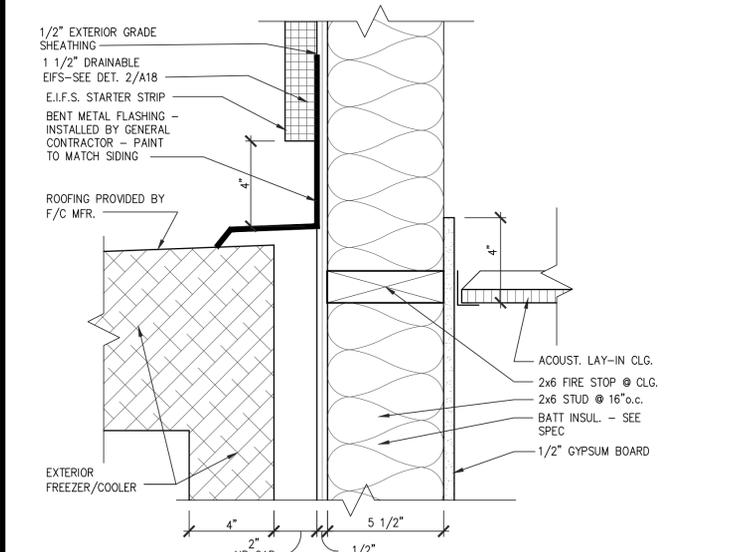
**10 HANGER ROD CANOPY**  
 A501 SCALE: 1 1/2" = 1'-0"



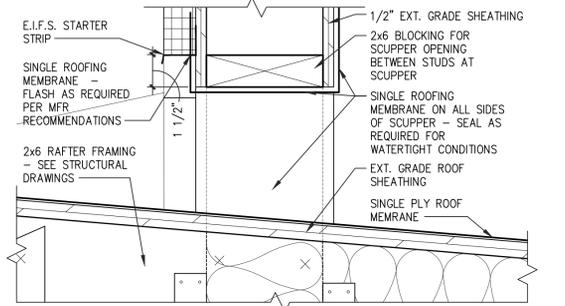
**4 SLOPED ROOF FASCIA**  
 A501 SCALE: 3" = 1'-0"



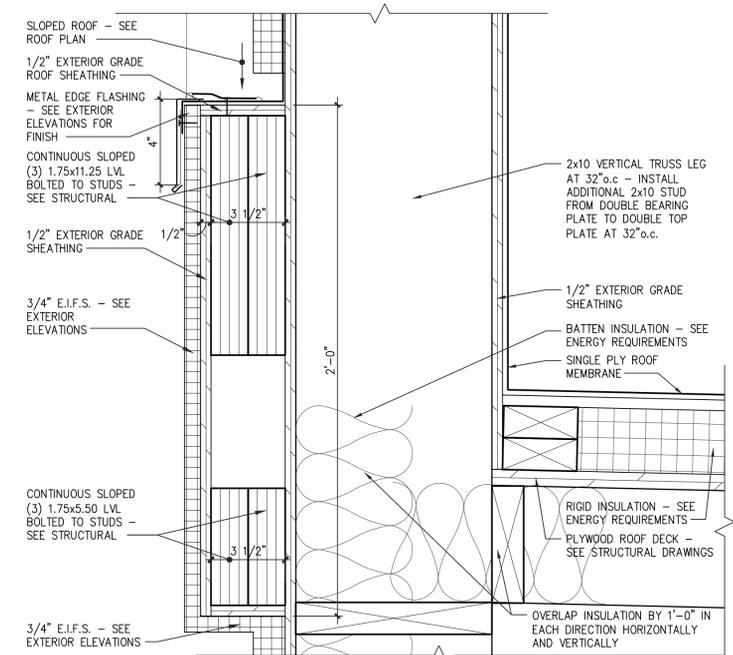
**1 PARAPET CAP**  
 A501 SCALE: 3" = 1'-0"



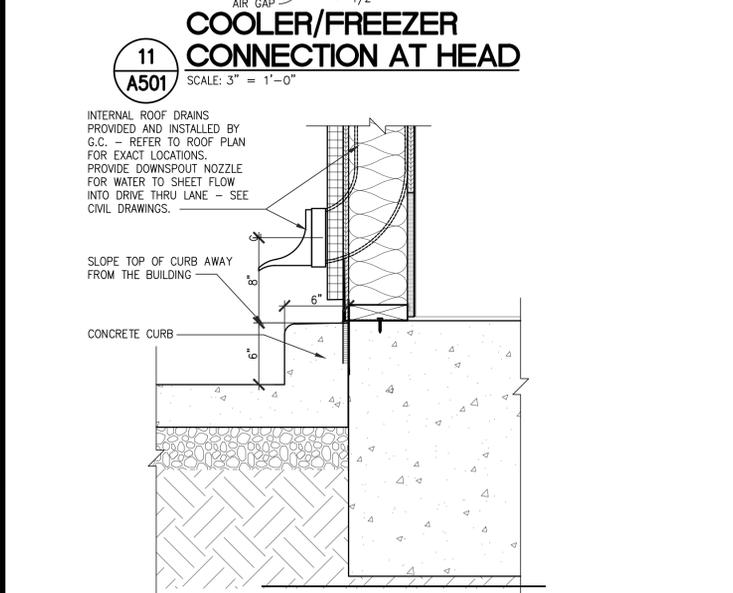
**7 COOLER/FREEZER CONNECTION AT WALL**  
 A501 SCALE: 3" = 1'-0"



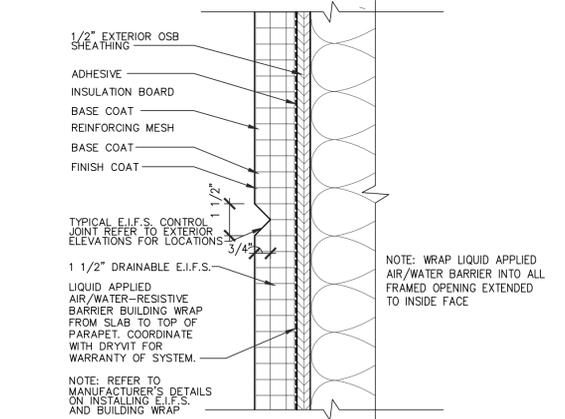
**5 PARAPET SUPPER AT UPPER SLOPED ROOF**  
 A501 SCALE: 3" = 1'-0"



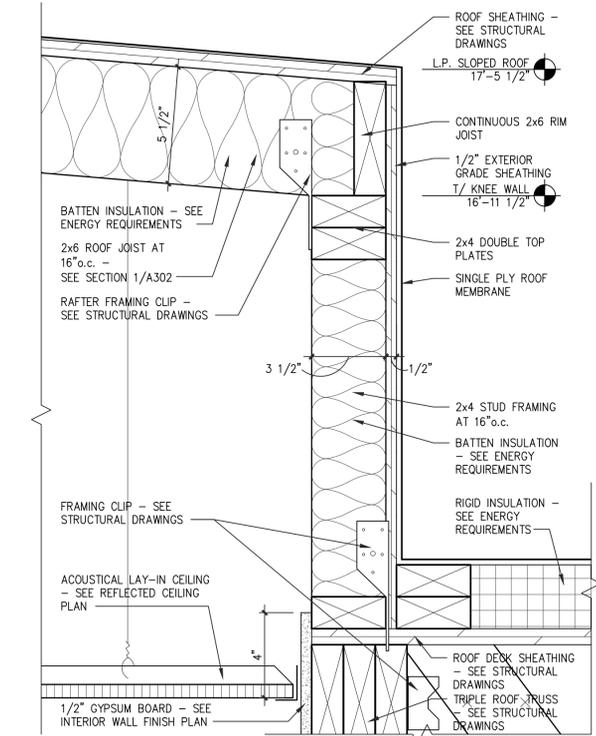
**2 SLOPED BAND**  
 A501 SCALE: 3" = 1'-0"



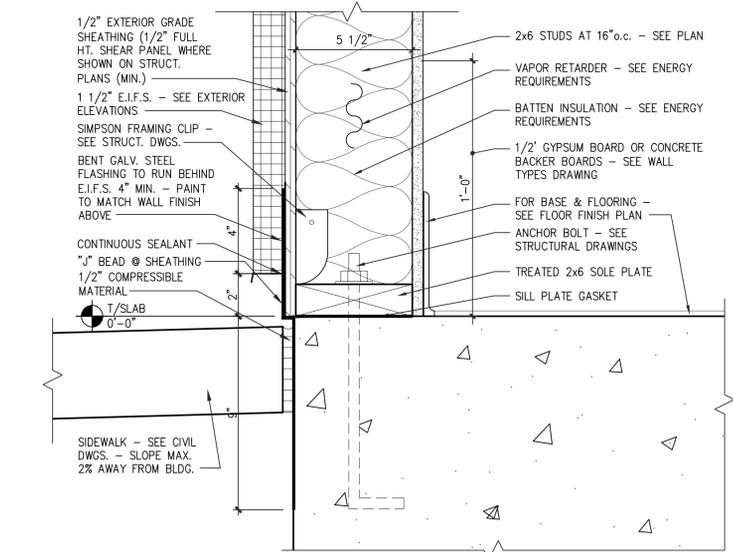
**11 COOLER/FREEZER CONNECTION AT HEAD**  
 A501 SCALE: 3" = 1'-0"



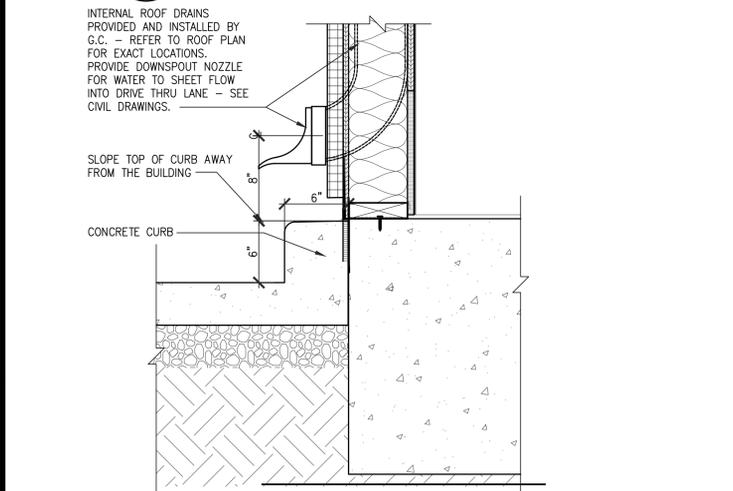
**8 E.I.F.S. 'V GROOVE' DETAIL**  
 A501 SCALE: 3" = 1'-0"



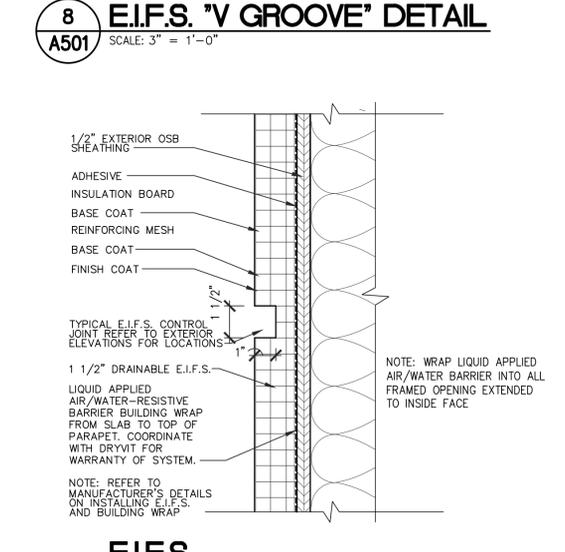
**6 STEP AT ROOF**  
 A501 SCALE: 3" = 1'-0"



**3 BASE AT SIDEWALK**  
 A501 SCALE: 3" = 1'-0"

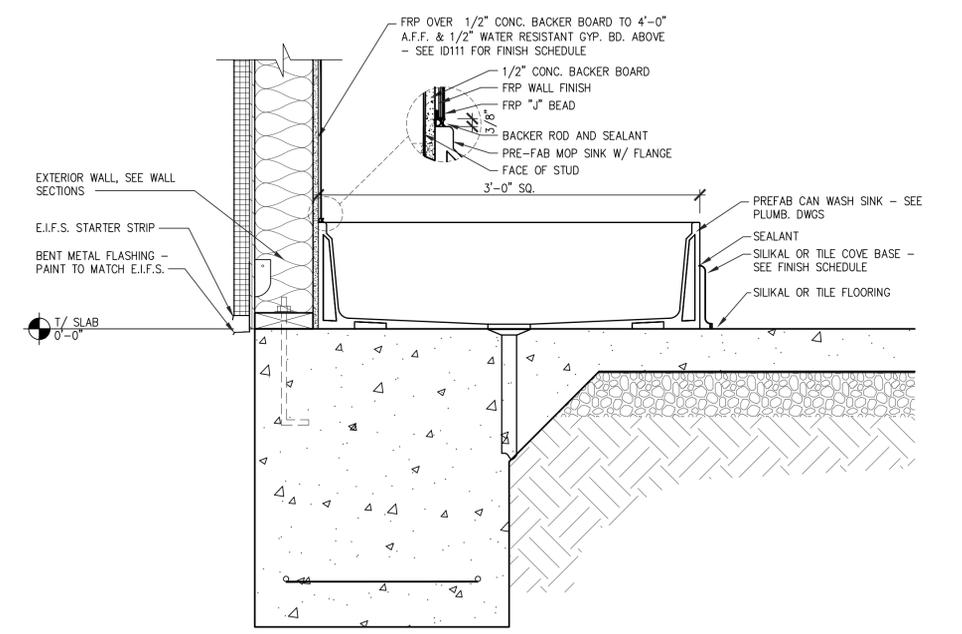
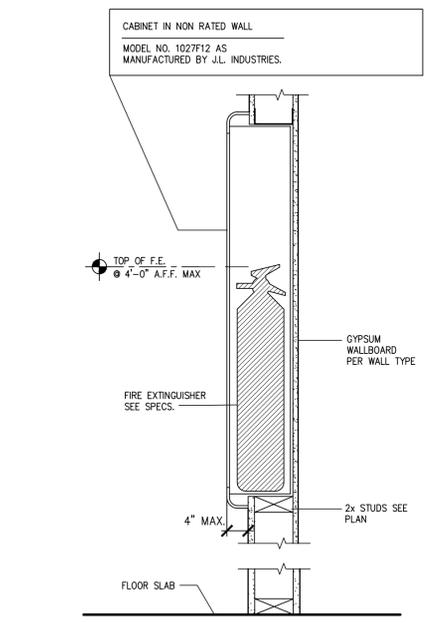
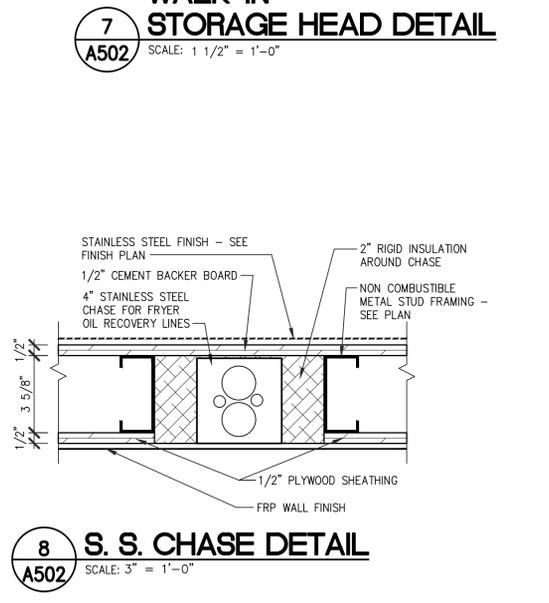
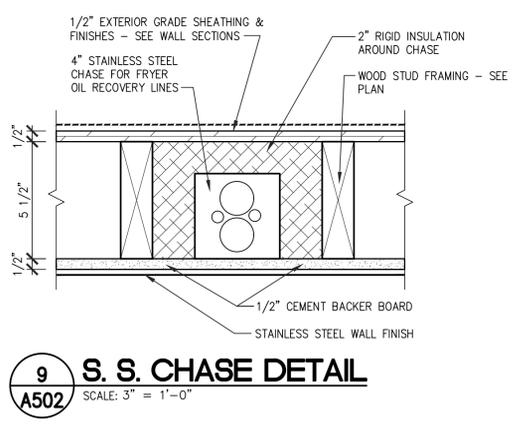
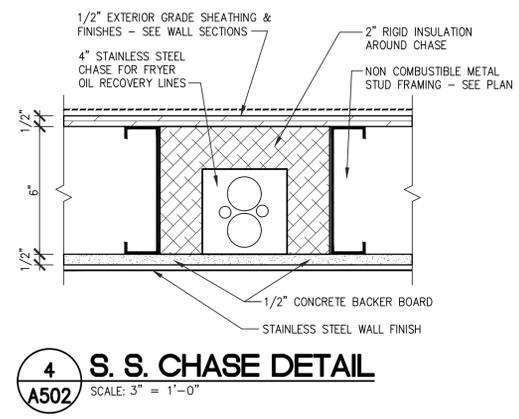
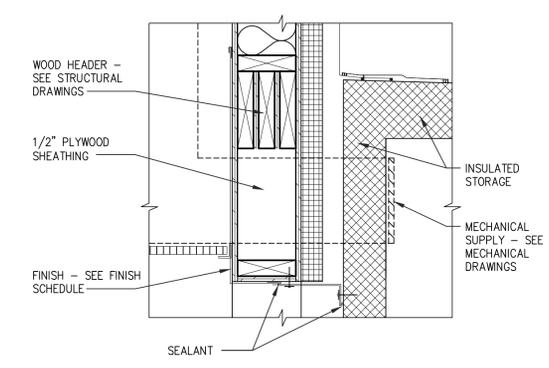
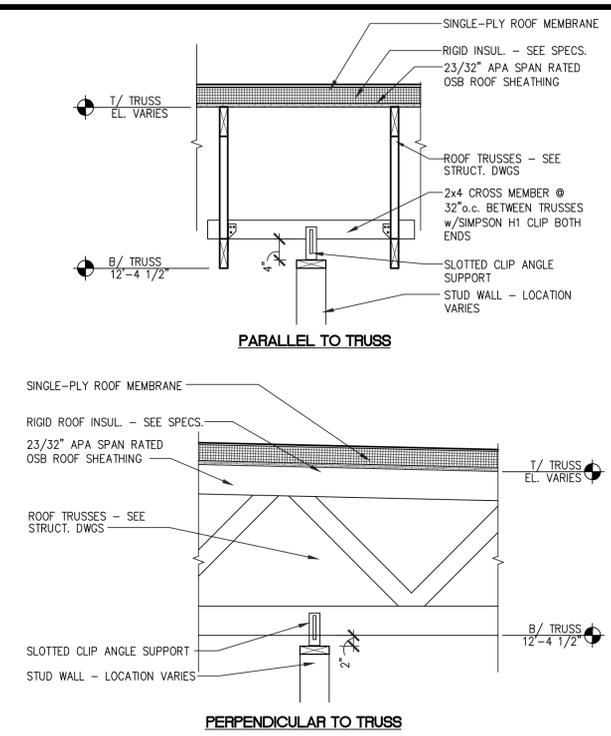
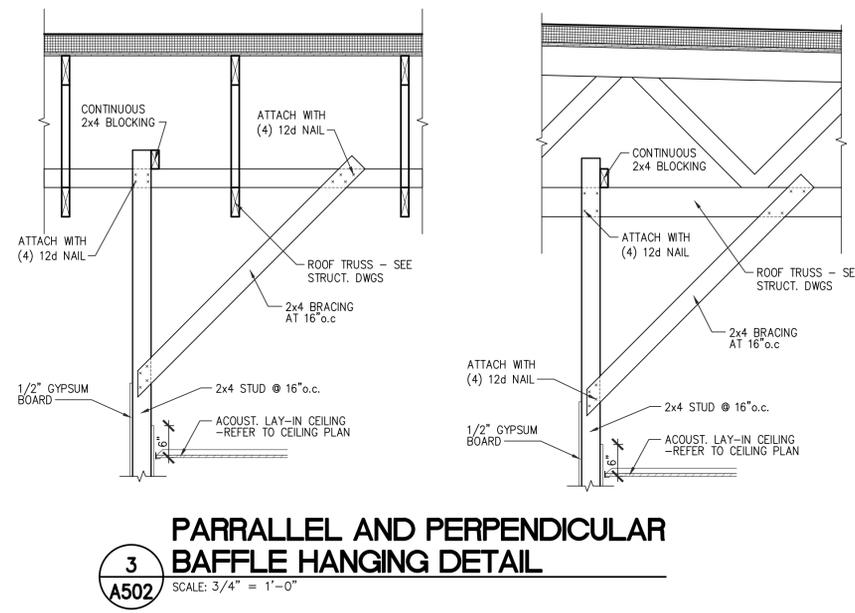
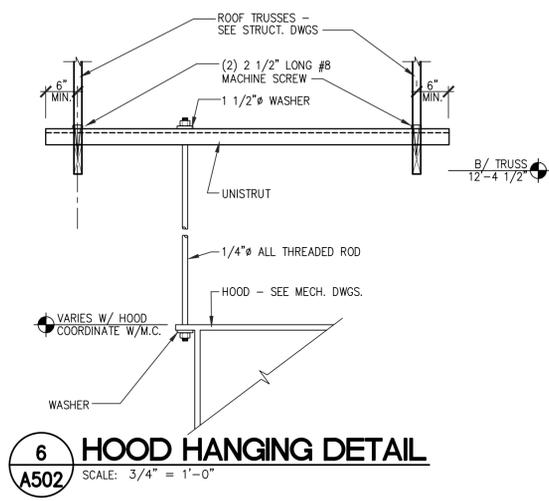


**12 TYPICAL ROOF DRAIN**  
 A501 SCALE: 3" = 1'-0"



**9 E.I.F.S. 'SQUARE GROOVE' DETAIL**  
 A501 SCALE: 3" = 1'-0"

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 Plotted Date: Jul 10, 2023 - 10:57am



**DOOR SCHEDULE**

NO.	DOOR				FRAME		HARDWARE	REMARKS
	TYPE	SIZE	MATERIAL	FIN.	F.R.	MAT. FIN.		
101	A	3'-0" x 7'-0"	AL/GL	AN	AL	AN	A	1
102	A	3'-0" x 7'-0"	AL/GL	AN	AL	AN	A	1
105	B	3'-0" x 6'-8" x 1 3/4"	S.C. WOOD	PNT	HM	PNT	1	3
106	B	3'-0" x 6'-8" x 1 3/4"	S.C. WOOD	PNT	HM	PNT	1	3
107	D	2'-10" x 6'-8" x 1 3/4"	AL	AN	HM	PNT	1	4
12	C	3'-6" x 6'-8" x 1 3/4"	INSUL HM	PNT	HM	PNT	2	2

**HARDWARE SCHEDULE**

**HARDWARE SET #1 - SECONDARY SINGLE ENTRY DOOR & RUNNER DOOR**  
 THIS HARDWARE GROUP TO BE PROVIDED AS PART OF THE ALUMINUM ENTRANCE PACKAGE AND SHALL BE MANUFACTURER'S BEST QUALITY SYSTEM.  
 \* PERIMETER WEATHERSTRIPPING BY DOOR / FRAME MFR.

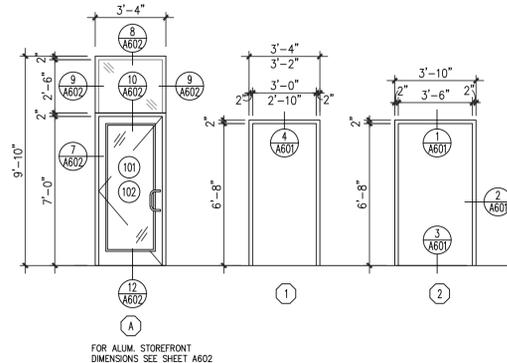
**HINGES:** IVES CONTINUOUS HINGES 112HD - 628  
**LOOK:** TOUCHBAR EXIT DEVICE (VON DUPRN 35A-NL-OP-388-299 FINISH - 628  
 SCHLAGE RM CYLINDER 20-057 - 628 -  
**BOLTS:** MANUFACTURER'S STANDARD FLUSH BOLTS  
**CLOSERS:** LCN 4111 EDL WITH HEAVY DUTY HARDWARE FINISH - 689  
**DOOR MOUNT:** LCN 4110-18 FINISH - 689  
**BLADE SPACER:** LCN 4110-61 FINISH - 689  
**THRESHOLD:** ALUMINUM - ZERO 625A-MSLA-10 MEETS ADA REQUIREMENTS  
**SWEEP:** ZERO 39A - ALUM.  
**OH STOPS:** GLYNN 1005 FINISH - 630  
**PULL:** IVES 8190HD 90 DEG OFFSET 10" FINISH - 630

**HARDWARE SET #2 - REAR EXTERIOR DOOR**  
**HINGES:** IVES 224HD CONTINUOUS HINGE - 628  
**LOCK:** SCHLAGE D SERIES "RHODES" STOREROOM LOCK IN 628 FINISH  
**LOCK GUARD:** IVES LG12 - 630 - COORDINATE WITH LOCK  
**CLOSERS:** LCN 4111 SH CUSH. WITH INTEGRAL STOP - 689  
**THRESHOLD:** ZERO 65A-MSLA-10 - A  
**WEATHERSTRIPPING:** FULL - PSMO OR EQUAL  
**KICK PLATE:** IVES 8400 36X24 LDW B-CS - 630  
**DOOR SWEEP:** ZERO 328 AA OR 39A  
**GASKET:** ZERO 429A - A (\* MOUNT PRIOR TO MOUNTING CLOSER)  
**RAIN DRIP:** ZERO 142A - A

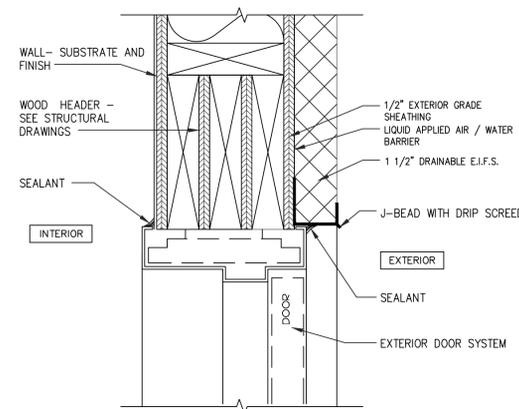
**HARDWARE SET #3 - RESTROOM ENTRY DOOR**  
**HINGES:** 1 1/2 PAIR BUTTS, HAGER BB-1279 26D  
**PULL:** ROUND WROUGHT DOOR PULL, HAGER 3 26D  
**PUSH:** PUSH PLATE, HAGER 305 816E  
**STOP:** FLOOR STOP, HAGER 241F US26  
**CLOSERS:** HAGER 5200 MLT 1-4 ALM  
**KICK PLATE:** HAGER 2145

**HARDWARE SET #4 - ELIASON DOORS TO PREP AREA**  
**HARDWARE:** BY DOOR MANUFACTURER  
**STOP:** 1420 626 SURFACE APPLIED STOP

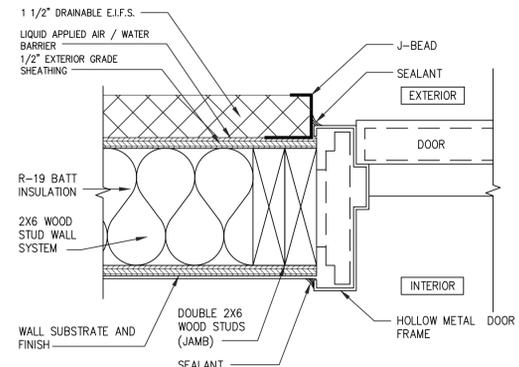
**DOOR TYPES**



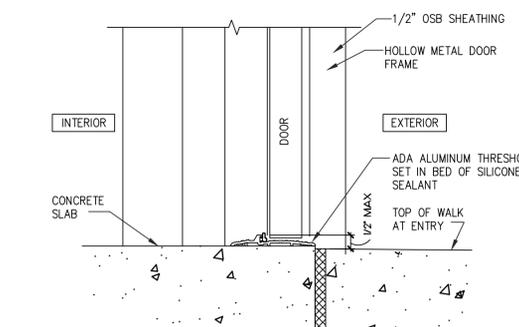
**DOOR FRAMES**



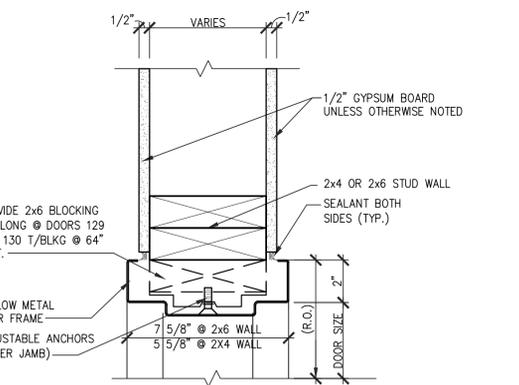
**1 HOLLOW METAL DOOR HEAD**  
 SCALE: 3"=1'-0"



**2 HOLLOW METAL DOOR JAMB**  
 SCALE: 3"=1'-0"



**3 HOLLOW METAL DOOR THRESHOLD**  
 SCALE: 3"=1'-0"



**4 INTERIOR HOLLOW METAL DOOR FRAME**  
 SCALE: 3"=1'-0"

**ABBREVIATIONS**

AL ALUMINUM	MTL METAL
AN ANODIZED FINISH	PNT PAINT
FAC FACTORY FINISH	S&S STAINED & SEALED
FBGL FIBERGLASS	SCWD SOLID CORE WOOD
GL GLASS	STL STAINLESS STEEL
HCWD HOLLOW CORE WOOD	WD WOOD
HM HOLLOW METAL	WVC WOOD VINYL CLAD
MDF MEDIUM DENSITY FIBERBOARD	

**GENERAL DOOR NOTES**

- ALL DOORS/DOOR OPENINGS SHALL COMPLY WITH INTERNATIONAL CODE LATEST EDITION / NFPA 101 LIFE SAFETY CODE 7.2.1.2 WIDTH 7.2.1.4 SWING AND FORCE TO OPEN 7.2.1.5 LOCKS AND LATCHES AND ALARM DEVICES 7.2.1.6 SPECIAL LOCKING ARRANGEMENTS 7.2.1.7 PANIC HARDWARE AND FIRE EXIT DEVICES 7.2.1.8 SELF CLOSING DEVICES
- ALL DOOR HANDLES SHALL BE LEVER TYPE MEETING A.D.A. REQUIREMENTS.
- ALL DOORS WITH AUTO CLOSERS SHALL HAVE BALL BEARING TYPE HINGES
- ALL EXTERIOR DOORS SHALL HAVE US28 FINISH HINGES.
- ALL EXTERIOR DOORS SHALL HAVE WEATHER STRIPPING.
- DOOR CLOSER SHALL BE INSTALLED SUCH THAT THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70°, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES (76MM) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
- THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN AN EXTERIOR DOOR SHALL NOT EXCEED 8.5LBF (37.5N).
- SUBMIT HARDWARE SCHEDULE AND REVIEW WITH ARCHITECT PRIOR TO PLACING ORDER.
- CONTRACTOR TO FIELD VERIFY ALL OPENING SIZES BEFORE ORDERING
- PROVIDE WALL OR FLOOR DOOR STOP AT ALL DOORS TYPICAL
- ALL STOREFRONT DOORS AND FRAMES TO HAVE CLEAR ANODIZED FINISH.
- ALL EXTERIOR STOREFRONT DOORS ARE TO BE 9/16" CLEAR GLAZING. YES 45 OR EQUAL.
- REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
- ALL EXTERIOR DOORS TO HAVE 4" HEADS U.N.O.

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: **DOOR SCHEDULE**

**Revisions**

THRU ADDENDUM "D"	
11/21/2022	
PROJECT DATE	06/29/2023
Drawn By	CIH
Checked By	GRL
Sheet No.	<b>A601</b>

WINDOW SCHEDULE

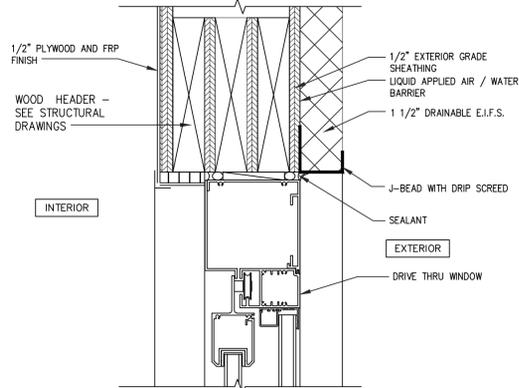
TYPE	SIZE - R.O.	MANUF / DESIGNATION	REMARKS
(A)	2'-8" x 3'-4"	YKK YES 45 CI	REFER TO ENERGY CODE SUMMARY FOR U VALUE AND SHGC
(B)	7'-10" x 3'-4"	YKK YES 45 CI	REFER TO ENERGY CODE SUMMARY FOR U VALUE AND SHGC
(C)	7'-10" x 6'-5 3/4"	YKK YES 45 CI	REFER TO ENERGY CODE SUMMARY FOR U VALUE AND SHGC
(D)	2'-10" x 6'-5 3/4"	YKK YES 45 CI	REFER TO ENERGY CODE SUMMARY FOR U VALUE AND SHGC
(E)	6'-0" x 3'-10"	QUICKSERV IFSC 4040	REFER TO ENERGY CODE SUMMARY FOR U VALUE AND SHGC

GENERAL WINDOW NOTES

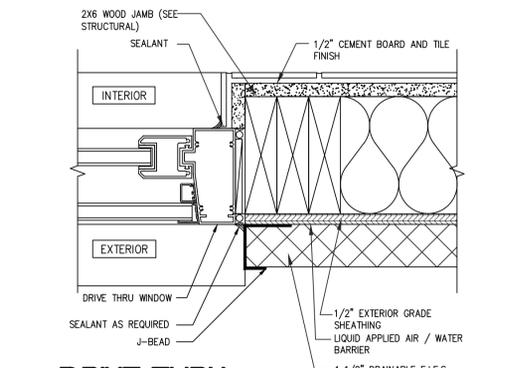
- REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
- ALL EXTERIOR STOREFRONT WINDOW SYSTEMS ARE TO BE 1" INSULATED GLAZING WITH SOLAR GRAY TINT. YKK - YES 45XT OR EQUAL.
- ALL EXTERIOR STOREFRONT WINDOW SYSTEMS TO BE CLEAR ANODIZED ALUMINUM.
- PRIOR TO INSTALLATION, SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND APPROVAL.
- FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION. STOREFRONT SIZE AND LAYOUT SUBJECT TO FRAMING.
- SEE A601 FOR DOOR / WINDOW ELEVATION AT EXIT.

ABBREVIATIONS

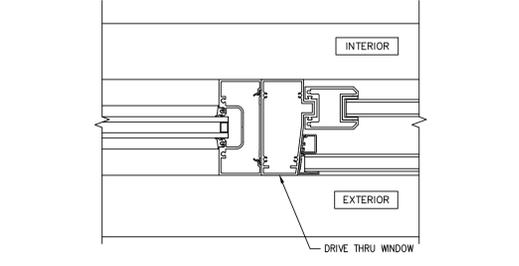
AL	ALUMINUM	MTL	METAL
AN	ANODIZED FINISH	PNT	PAINT
FAC	FACTORY FINISH	S&S	STAINED & SEALED
FBGL	FIBERGLASS	SCWD	SOLID CORE WOOD
GL	GLASS	STL	STAINLESS STEEL
HCWD	HOLLOW CORE WOOD	WD	WOOD
HM	HOLLOW METAL	WVC	WOOD VINYL CLAD
MDF	MEDIUM DENSITY FIBERBOARD		



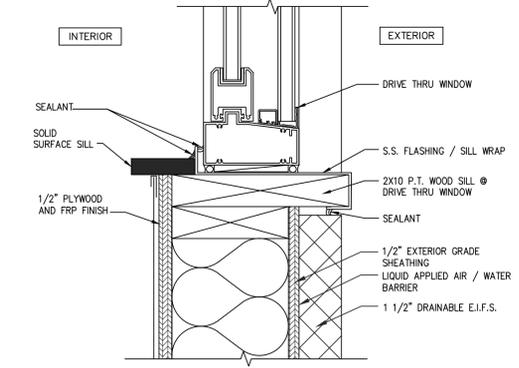
1 DRIVE THRU WINDOW HEAD DETAIL  
A602 SCALE: 3"=1'-0"



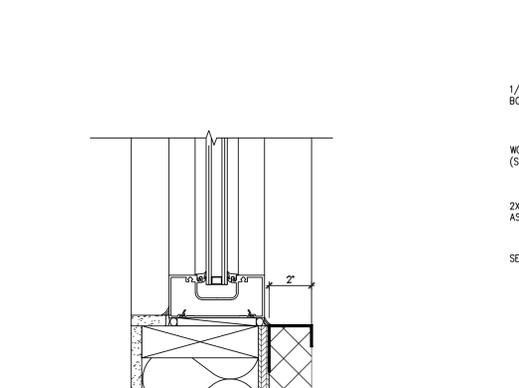
2 DRIVE THRU WINDOW JAMB DETAIL  
A602 SCALE: 3"=1'-0"



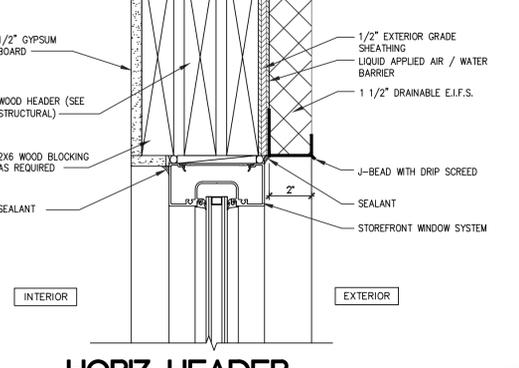
3 DRIVE THRU / WINDOW JAMB  
A602 SCALE: 3"=1'-0"



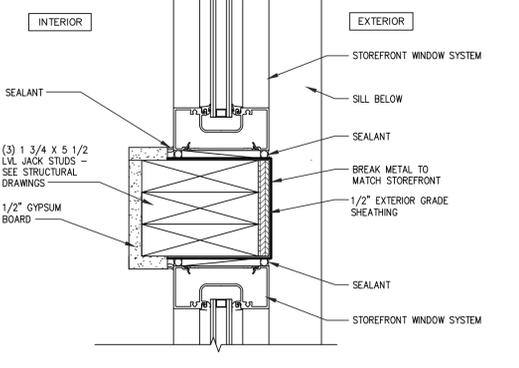
4 DRIVE THRU WINDOW SILL DETAIL  
A602 SCALE: 3"=1'-0"



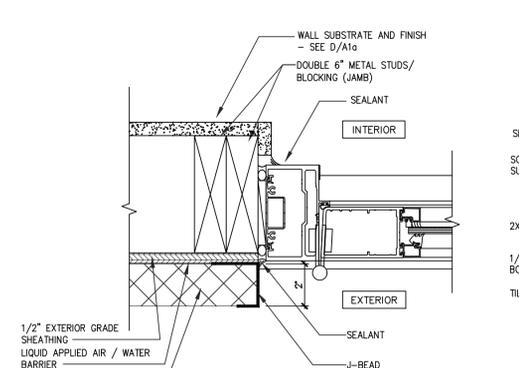
5 HORIZ. HEADER AT STACKED WINDOWS  
A602 SCALE: 3"=1'-0"



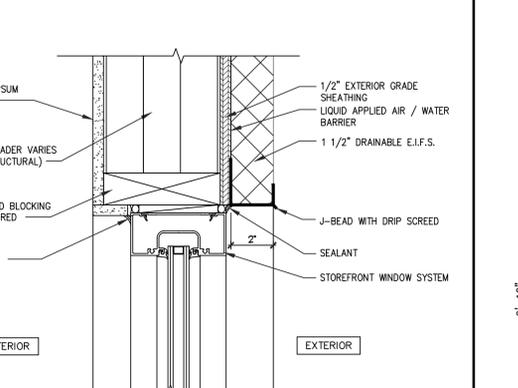
6 VERTICAL WINDOW POST  
A602 SCALE: 3"=1'-0"



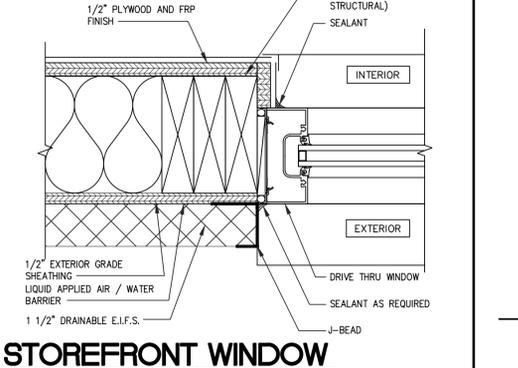
7 STOREFRONT DOOR JAMB  
A602 SCALE: 3"=1'-0"



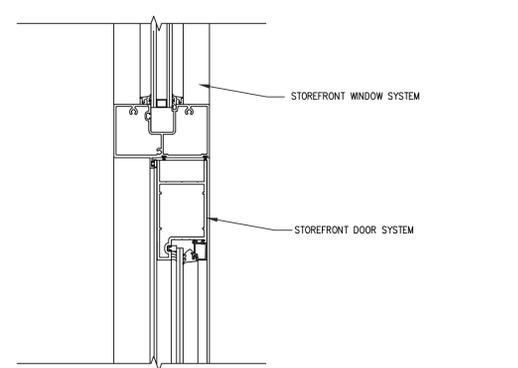
8 STOREFRONT WINDOW HEAD  
A602 SCALE: 3"=1'-0"



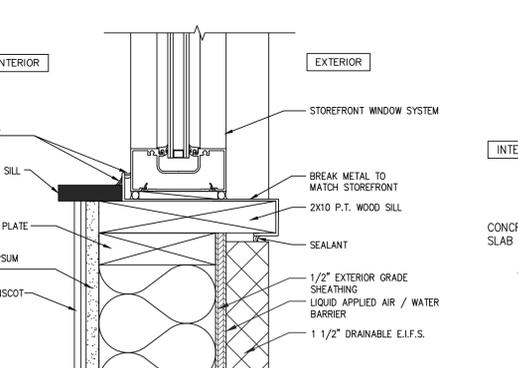
9 STOREFRONT WINDOW SYSTEM JAMB DETAIL  
A602 SCALE: 3"=1'-0"



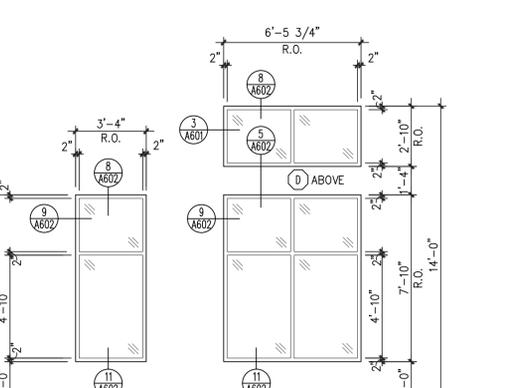
10 HORIZONTAL DOOR HEAD  
A602 SCALE: 3"=1'-0"



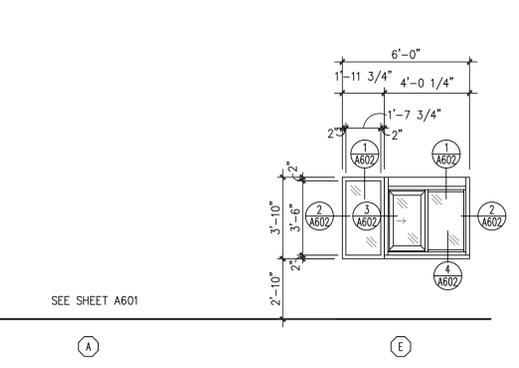
11 STOREFRONT WINDOW SILL  
A602 SCALE: 1/4" = 1'-0"



12 STOREFRONT WINDOW THRESHOLD  
A602 SCALE: 3"=1'-0"



WINDOW TYPES



WINDOW TYPES

Revisions

THRU ADDENDUM "D"  
11/21/2022

PROJECT DATE  
06/29/2023

Drawn By  
CIH

Checked By  
GRL

Sheet No.

A602

<b>DIVISION 1</b>	<b>GENERAL NOTES</b>
<p><b>GENERAL NOTES</b></p> <p>A. all work shall conform to the requirements of the applicable codes indicated on sheet g001 and all other applicable local, state, and federal codes and ordinances, and all authorities having local jurisdiction.</p> <p>B. all work shall conform to the 2014 florida fire prevention code</p> <p>C. the general contractor shall perform all work in accordance with the current edition of the "general conditions of the contract for construction" a1a document a201.</p> <p>D. the contractor shall, upon discovery, give written notice to the architect of any materials, equipment, or design features which he believes to be inadequate or unsuitable, in violation of laws, ordinances, or rules and regulations of the authorities having jurisdiction over the work, and of any necessary items or work omitted from the drawings.</p> <p>E. all subcontractors shall use only skilled craftsmen, experienced in the work of their trade, to ensure first class workmanship; any work not equal to best trade standards shall be removed and replaced at no additional cost. should any subcontractor refuse to remove and replace unsatisfactory work, the contractor may remove and replace it, and charge the cost to the subcontractor.</p> <p>F. it is the general contractor's sole responsibility to determine erection procedure sequence to ensure the safety of people &amp; of the building &amp; its component parts during construction, this includes, but is not limited to, the addition of whatever temporary bracing or tie downs that may be necessary so that materials shall be removed and shall remain the property of the contractor after completion of the project.</p> <p>G. all products and parts shall fit together neatly, without damage or disfigurement, except for specified curved surfaces, all products and parts shall be constructed/ fabricated and installed true, in line, and plumb. all non conforming work shall be rejected and re-accomplished by the general contractor at no additional costs to the owner.</p> <p>H. all work shown on the drawings shall be constructed of new components.</p> <p>I. all bids shall be prepared from a complete set of construction documents, complete sets of documents shall not be broken up for bid purposes, such action may result in a lack of information in reference to the scope of work to be performed.</p> <p>J. it shall be the general contractor's responsibility to personally field inspect the project site prior to the preparation and submittal of his bid. this inspection is required so that the contractor shall be totally familiar with the existing conditions and their interface with the new construction as defined in these construction documents.</p> <p>K. unless otherwise specified, the g.c. shall furnish a written guarantee for all work (equipment, materials, and labor), against any defects in said work for a period of one (1) year from the date of substantial completion, with all appropriate repairs or replacements at no additional cost to the owner.</p> <p>L. it shall be the responsibility of the g.c. and/or contractors to comply with all the requirements of the occupational safety and health act of 1970 by the u.s. department of labor, and require all its subcontractors and employees to comply with this law, and any related state or local laws.</p> <p>M. the data given herein and on the drawings is as exact as could be secured, their absolute accuracy is not guaranteed, and the g.c. shall obtain exact locations, measurements, levels, etc. at the site and shall satisfactorily adopt his work to the actual conditions of the building, do not scale prints. verify all dimensions with the architect prior to commencing work.</p> <p>N. these documents and the information contained herein shall not be altered in anyway by the contractor or the owner, alteration shall be made only by the architect or record.</p> <p>O. maintain areas free of waste materials, debris, and rubbish. maintain the site in a clean and orderly condition. remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces prior to enclosing the space broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust, remove waste materials, debris, and rubbish from site weekly and dispose off-site.</p>	
<p><b>CONSTRUCTION NOTES</b></p> <p>1. all exit doors shall be operable from the egress side without the use of a key, tool, special knowledge or effort. manually operated flush bolts or surface bolts shall not be used.</p> <p>2. all glazing within a 24 inch arc of doors whose bottom edge is less than 60 inches above the floor glass below 18" a.f.f. and all glazing in doors shall be safety glass, tempered glass or acrylic plastic sheet. per 2017 fbc 2406.4</p> <p>3. provide and install portable fire extinguishers as shown in these documents or as otherwise directed by the local fire marshal.</p> <p>4. signage shall be provided as required and as stated in the accessibility code for building construction per section 703 in the 2017 edition of fbc</p>	
<b>SECTION 01340</b>	<b>SHOP DRAWINGS, PRODUCT DATA AND SAMPLES</b>
<p><b>PART 1 GENERAL</b></p> <p>1.01 <b>REQUIREMENTS INCLUDED</b></p> <p>A. submit shop drawings, product data and samples required by contract documents, or as necessary where not indicated, so architect can review, select, check for conformance, etc., as required.</p> <p>1.02 <b>RELATED REQUIREMENTS</b></p> <p>A. designated in the construction schedule, or in a separate coordinate schedule, the dates for submission and the dates that reviewed shop drawings, product data and samples will be needed, allow sufficient time in the schedule for architect review and possible resubmittals if required.</p> <p>1.03 <b>SHOP DRAWINGS</b></p> <p>A. drawings shall be presented in a clear and thorough manner.</p> <p>1. details shall be identified by reference to sheet and detail, schedule or room numbers shown on contract drawings.</p> <p>2. sheet shall be labeled with correct job name, location, architect's project number, and subcontractor's company name, address, phone number and name of responsible representative of company.</p> <p>3. drawings, details, etc. shall clearly illustrate all components and adjacent components of the work.</p> <p>1.04 <b>PRODUCT DATA</b></p> <p>A. preparation:</p> <p>1. clearly mark each copy to identify pertinent products or models which are specifically covered by the submittal, reference all numbers to correspond to those in contract documents.</p> <p>2. show performance characteristics and capacities.</p> <p>3. show dimensions and clearances required.</p> <p>4. show wiring or piping diagrams and controls.</p> <p>5. delete model numbers, diagrams, details, etc., not applicable to the submittal.</p> <p>B. manufacturer's standard schematic drawings and diagrams:</p> <p>1. modify drawings &amp; diagrams to delete information which is not applicable to the work.</p> <p>2. supplement standard information to provide information specifically applicable to the work.</p> <p>1.05 <b>SAMPLES</b></p> <p>A. office samples shall be of size indicated, or of sufficient size and quantity to clearly illustrate:</p> <p>1. functional characteristics of the product, with integrally related parts and attachment devices and techniques.</p> <p>2. full range of color, texture and pattern for architect selection at no additional cost. submit only specified color range if different from manufacturer's standard range.</p> <p>B. all samples of a particular product, assembly, unit, etc., shall be submitted at the same time to allow proper review and comparison between samples.</p> <p>1.06 <b>SUBMITTALS</b></p> <p>A. permits, licenses, and certificates: for the owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, and similar documents, correspondence &amp; records established in conjunction with compliance with standards and regulations bearing upon performance of the work.</p>	

<b>DIVISION 1</b>	<b>GENERAL NOTES</b>
<p>1.07 <b>CONTRACTOR RESPONSIBILITIES</b></p> <p>A. review shop drawings, product data and samples prior to submission.</p> <p>B. determine and verify:</p> <ol style="list-style-type: none"> <li>field measurements.</li> <li>field construction criteria.</li> <li>catalog numbers and similar data.</li> <li>conformance with specifications and drawings.</li> </ol> <p>C. coordinate each submittal with requirements of the work and the contract documents. do not submit non-conforming products.</p> <p>D. notify the architect in writing, at the time of submission, of any deviations in the submittals from requirements of the contract documents, or of any discrepancies within the contract documents.</p> <p>E. begin no fabrication or work which requires submittals until return of submittals with architect's conformance review.</p> <p>F. submittals not properly reviewed by contractor for conformance with contract documents shall be returned without architect's review or acceptance.</p> <p>1.08 <b>SUBMISSION REQUIREMENTS</b></p> <p>A. review submittals promptly in accordance with approved schedule, and in such sequence as to cause no delay in the work or in the work of any other contractor.</p> <p>B. number of submittals required:</p> <ol style="list-style-type: none"> <li>shop drawings: submit the number of opaque reproductions which the contractor requires, plus three (3) copies which will be retained by the architect. maximum acceptable size is 24" x 36" for any one sheet.</li> <li>product data: submit the number of copies which the contractor requires, plus three (3) which will be retained by the architect.</li> <li>samples: submit the number stated in each specification section. if no number is given, verify correct number with architect prior to submittal. minimum of two (2) samples.</li> <li>provide submittals as required by the individual section, but no less than that stated above.</li> </ol> <p>C. <b>SUBMITTALS SHALL CONTAIN:</b></p> <ol style="list-style-type: none"> <li>the date of submission and the dates of any previous submissions.</li> <li>the project title and number.</li> <li>contract identification.</li> <li>the names of: <ul style="list-style-type: none"> <li>contractor.</li> <li>subcontractor.</li> <li>supplier.</li> <li>manufacturer.</li> </ul> </li> <li>identification of the product, with the specification section number.</li> <li>field dimensions, clearly identified as such.</li> <li>relation to adjacent or critical features of the work or materials.</li> <li>applicable standards such as, but not limited to astm or federal specification numbers.</li> <li>identification of deviations from contract documents.</li> <li>identification of options available, but not indicated in the specifications, such as color, finish, texture, etc. with complete samples or listing included in the submittal for architect's selection.</li> <li>indication of terms to be included in the work and shown on the shop drawings shall be dimensioned and coordinated for proper fit and timely inclusion.</li> <li>identification of revisions on submittals.</li> <li>an 8" x 3" blank space for contractor and architect stamps.</li> <li>contractor's stamps, initialed or sign, certifying the review of submittal, verification of products, field measurements and field construction criteria, and coordination of the information within the submittal with requirements of the work and of contract documents.</li> <li>identification of options available, but not indicated in the specifications, such as color, finish, texture, etc. with complete samples or listing included in the submittal for architect's selection.</li> <li>indication of terms to be included in the work and shown on the shop drawings shall be dimensioned and coordinated for proper fit and timely inclusion.</li> <li>identification of revisions on submittals.</li> <li>an 8" x 3" blank space for contractor and architect stamps.</li> <li>contractor's stamps, initialed or sign, certifying the review of submittal, verification of products, field measurements and field construction criteria, and coordination of the information within the submittal with requirements of the work and of contract documents.</li> </ol> <p>1.09 <b>RESUBMISSION REQUIREMENTS</b></p> <p>A. make any corrections or changes in the submittals required by the architect and resubmit until accepted.</p> <p>B. shop drawings and product data:</p> <ol style="list-style-type: none"> <li>revise initial drawings or data, and resubmit as specified for the initial submittal.</li> <li>indicate any changes which have been made other than those requested by the architect.</li> </ol> <p>C. samples: submit new samples as required for initial submittal.</p> <p>1.10 <b>DISTRIBUTION</b></p> <p>A. distribute reproduction of shop drawings and copies of product data which carry the architect's stamp of conformance to:</p> <ol style="list-style-type: none"> <li>job site file.</li> <li>record documents file.</li> <li>subcontractors.</li> <li>supplier or fabricator.</li> <li>owner (to be distributed by the architect).</li> </ol> <p>1.11 <b>ARCHITECT'S DUTIES</b></p> <p>A. review submittals with reasonable promptness and in accord with schedule.</p> <p>allow a minimum of ten (10) working days for review, unless special handling is arranged in advance.</p> <p>B. affix stamp and initials or signature, and indicate requirements for resubmittal or conformance of submittal. acceptance is for general conformance with design concept &amp; general compliance with the contract documents. quantities and dimensions of materials will not be reviewed. acceptance of a submittal does not waive or alter the requirements of the contract documents.</p> <p>C. return submittals to contractor for distribution or for resubmission.</p> <p>END OF SECTION 01340</p>	
<b>DIVISION 2</b>	<b>SITE WORK</b>
<p><b>SECTION 02000 GENERAL</b></p> <p>REFER TO CIVIL DRAWINGS AS PREPARED BY NEWKIRK ENGINEERING</p> <p>END OF SECTION 02000</p> <p><b>TERMITE SPECIFICATIONS</b></p> <p>1. a permanent sign which identifies the termite treatment provider and need for re-inspection and treatment of contract renewal shall be provided. the sign shall be posted near the water heater or electric panel per 2017 fbc 105.11</p> <p>2. condensate and roof down spouts shall discharge at least 1'-0" away from building sidewalks. per 2017 fbc 1503.7</p> <p>3. irrigation / sprinkler systems including all risers and spray heads shall not be installed within 1'-0" of the building side walls. per 2017 fbc 318.1</p> <p>4. to provide for inspection for termite infestation, between wall covering and final earth grade shall not be less than 6 inches. per 2017 fbc 1408.3</p> <p>exception: paint or decorative cementitious finish less than 5/8" thick adhered directly to the foundation wall. per 2017 fbc 1403.2.1</p> <p>5. initial treatment shall be done after all excavation &amp; back fill is complete. per 2017 fbc 1816.1.1</p> <p>6. soil disturbed after the initial treatment shall be retreated including spaces boxed and formed. per 2017 fbc 1816.1.2</p> <p>7. boxed areas in concrete floors for subsequent installation of traps, etc. shall be made with permanent metal or plastic forms. permanent forms must be of a size and depth that will eliminate the disturbance of soil after the initial treatment. per 2017 fbc 1816.1.3</p> <p>8. minimum 6 mil vapor retarder must be installed to protect against rainfall dilution. if rainfall occurs before vapor retarder placement, retreatment is required. per 2017 1816.1.4</p> <p>9. concrete overpour and mortar along the foundation perimeter must be removed before exterior soil treatment. per 2017 fbc 1816.1.5</p> <p>10. soil treatment must be applied under all exterior concrete or grade within 1'-0" of the structure sidewalks. per 2017 fbc 1816.1.6</p> <p>11. an exterior vertical chemical barrier must be installed after construction is complete including landscaping and irrigation. any soil disturbed after the vertical barrier is applied, shall be retreated. per 2017 fbc 1816.1.6</p> <p>12. all buildings are required to have pre-construction treatment. per 2017 fbc 1816.1.7</p> <p>13. a certificate of compliance must be issued to the building department by a licensed pest control company before a certificate of occupancy will be issued. the certificate of compliance shall state: "the building has received a complete treatment for the prevention of subterranean termites. the treatment is in accordance with the rules and laws of the florida department of agriculture and consumer services." per 2017 fbc 1816.1</p>	

<b>DIVISION 3</b>	<b>CONCRETE</b>
<p>14. after all work is completed, loose wood and fill must be removed from below and within 1'-0" of the building. this includes all grade stakes, tub tray boxes, forms, shoring, or other cellulose containing material. per 2017 fbc 2304.12.9.2</p> <p>15. no wood, vegetation, stumps, cardboard, trash, etc. shall be buried within 15'-0" of any building or proposed building. per 2017 fbc 2304.12.8.1</p> <p>SEE STRUCTURAL DRAWINGS</p>	
<b>DIVISION 4</b>	<b>MASONRY</b>
<p>SEE STRUCTURAL DRAWINGS</p>	
<b>DIVISION 5</b>	<b>METALS</b>
<p>SEE STRUCTURAL SPECIFICATIONS</p>	
<b>DIVISION 6</b>	<b>WOOD and PLASTICS</b>
<p>SEE STRUCTURAL DRAWINGS FOR WOOD AND CARPENTRY</p>	
<b>DIVISION 7</b>	<b>THERMAL AND MOISTURE PROTECTION</b>
<p><b>SECTION 07210 BUILDING INSULATION</b></p> <p><b>PART 1 GENERAL</b></p> <p>1.01 <b>GENERAL</b></p> <p>A. coat insulation exposed to view in finish work with cementitious coating, install coating strictly in accordance with coating manufacturer's instruction. apply coating approximately 3/16" thick. texture surface with a paint roller.</p> <p>1.02 <b>GENERAL BUILDING INSULATION</b></p> <p>A. rigid board insulation to be 1" dow chemical company - tuft "r".</p> <p>B. blanket insulation to be unfaced, mineral fiber with thermostating resins, type 1. mineral fiber shall be manufactured from glass.</p> <p>C. apply insulation units complying with manufacturer's recommendations, install blanket insulation in stud walls, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement.</p> <p>1.03 <b>LOOSE INSULATION</b></p> <p>A. same as general building insulation. fill cracks and voids around frames and blocking and other voids in exterior wall and voids around canters, curbs, and blocking in and about the roof with loose insulation. wedge in place corners and intersections before sheeting of exterior, completely filling voids.</p> <p>1.04 <b>SOUND ATTENUATING INSULATION</b></p> <p>A. sound insulation shall be installed in stud walls and ceilings where indicated on the drawings. fit insulation tightly between stud members.</p> <p>1.05 <b>TAPERED ROOF INSULATION</b></p> <p>A. provide and install tapered roof insulation system in strict accordance with manufacturer's specifications. manufacturers offering products that may be incorporated in the work include, but are not limited to, the following</p> <ol style="list-style-type: none"> <li>celotex corporation, tampa, fl. (813) 873-4173</li> </ol> <p>1.06 <b>RELATED WORK</b></p> <p>A. specified elsewhere, in cludes, but not limited to, furnishing and installing such items as roof membrane system, nailers, mechanical fasteners, flashing, etc..</p> <p><b>PART 2 PRODUCTS</b></p> <p>2.01 <b>MATERIAL DESCRIPTION</b></p> <p>A. at cmu walls</p> <ol style="list-style-type: none"> <li>install Owens Corning pink foamed ridged foam insulation 1" thick - r-5</li> </ol> <p>B. at wall cavities</p> <ol style="list-style-type: none"> <li>4" walls : install Owens Corning kraft faced r-11 insulation</li> <li>6" walls : install Owens Corning kraft faced r-19 insulation</li> </ol> <p>C. at roof</p> <ol style="list-style-type: none"> <li>install Owens Corning kraft faced r-19 or r-30 insulation as specified in drawings</li> </ol> <p>D. at sound partitions</p> <ol style="list-style-type: none"> <li>install Owens Corning quiet zone noise control batts</li> </ol> <p><b>PART 3 EXECUTIONS</b></p> <p>3.01 <b>INSULATION APPLICATION</b></p> <p>A. install the flat and tapered insulation loosely over the substrate in strict accordance with the manufacturer's specifications.</p> <p>B. start the boards from the roof drains and work toward the high point. install tapered boards according to letters stenciled on the board. direction is also stenciled on all boards. stagger joints of underlayment boards from taper boards.</p> <p>END OF SECTION 07210</p> <p><b>SECTION 07220 ROOF DECK SHEATHING</b></p> <p><b>PART 1 GENERAL</b></p> <p>1.00 <b>DESCRIPTION</b></p> <p>A. <b>WORK IN THIS SECTION INCLUDES, BUT IS NOT LIMITED TO:</b></p> <ol style="list-style-type: none"> <li>thermal barrier.</li> <li>roofing protection board.</li> <li>roof insulation protection board.</li> <li>formboard for gypsum concrete.</li> <li>re-cover board.</li> </ol> <p>B. <b>RELATED WORK SPECIFIED ELSEWHERE:</b></p> <ol style="list-style-type: none"> <li>roof insulation.</li> <li>roof membrane.</li> </ol> <p>1.01 <b>SUBMITTALS:</b></p> <p>A. product data: submit manufacturer's descriptive literature indicating material composition, thickness, sizes and fire resistance.</p> <p>B. shop drawings: submit shop drawings indicating fastener and adhesive patterns for fmrc wind uplift resistance specified.</p> <p>C. certification: submit manufacturer's written certification that product meets specified fire-resistance requirements</p> <p>1.02 <b>DELIVERY, STORAGE, AND HANDLING:</b></p> <p>A. delivery: deliver materials to the job site in manufacturer's original packaging, containers &amp; bundles with manufacturer's brand name and identification intact &amp; legible.</p> <p>B. storage and handling: dens-deck (dd) roof board must be kept dry during storage &amp; application. outside storage must be off ground and protected by a breathable waterproof covering. if dd becomes wet, it must be dried before installation. dd must be roofed some day as laid.</p> <p>1.03 <b>LIMITATIONS:</b></p> <p>the need for a separator sheet or sheet between the dens-deck (dd) roof board and the roofing membrane shall be determined by the roof membrane manufacturer or roofing system designer.</p> <p>A. panels must be kept dry. apply only as much dd as can be covered by a roof membrane system in the same day.</p> <p>B. accumulation of water due to leaks or condensation in or on dens-deck roof board must be avoided during construction and after construction. avoid over-use of non-vented direct fire heaters during winter months. avoid application of dd during rains, heavy fogs and other conditions that may deposit moisture on the surface.</p> <p>C. conditions beyond the control of g-p gypsum such as weather conditions, dew, application temperatures and techniques may cause adverse effects with adhered roofing systems. always consult roofing manufacturer's for their specific instructions on applying their products to dens-deck roof board.</p> <p>D. dens-deck is designed to act with a properly designed roof system. the actual use of dens-deck roof board as a roofing component is the responsibility of the roofing system's designing authority. g-p gypsum does not offer roofing system design services.</p> <p>E. when applying solvent-based adhesive or primers, allow sufficient time for the solvent to flash off to avoid damage to roofing components</p> <p>F. consult membrane manufacturer for specific installation instructions.</p>	

<b>PART 2 PRODUCTS</b>
<p>2.00 <b>GYPSPUM DECKING:</b></p> <p>A. acceptable product: g-p gypsum corporation dens-deck fireguard.</p> <p>B. composition: non-structural, glass mat-embedded, water-resistant gypsum core panel.</p> <p>C. size: nominal 4' x 8'</p> <p>D. thickness: 5/8" (15.9mm) dens-deck fireguard roof board.</p> <p>E. fire resistance:</p> <ol style="list-style-type: none"> <li>flame spread 0, smoke developed 0, when tested in accordance with astm e 84. noncombustible when tested in accordance with astm e 136.</li> <li>5/8" dens-deck fireguard type x roof board: ul-classified type dgg when tested in accordance with astm e 119.</li> </ol> <p>2.01 <b>MISCELLANEOUS MATERIALS:</b></p> <p>A. fmrc approved fasteners; provide size type in accordance with fmrc requirements &amp; roof membrane manufacturer's written recommendations.</p> <p><b>PART 3 EXECUTION</b></p> <p>3.00 <b>GENERAL</b></p> <p>A. provide dens-deck roof board where indicated on drawings using fastening system specified.</p> <p>B. use maximum lengths possible to minimize number of joints. locate edge joints parallel to and on deck ribs. stagger end joints of adjacent lengths of dens-deck roof board.</p> <p>3.01 <b>GYPSPUM DECKING INSTALLATION AT ROOFS:</b></p> <p>A. adhered systems: insta-foam products, inc.'s insta-stik adhesive used with 1/4" dens-deck roof board achieved a fmrc class 1-180 according to test report 1y7a5. am in selected class i insulated steel and concrete deck inst-foam products, inc. for details at 1-800-800-foam.</p> <p>B. wind uplift/fmrc compliance for mechanical attachment to metal decks: install in accordance with ji. In2a6.am for fmrc standard 4450 for 1/2" or 5/8". for 1/4" dens-deck roof board install with ji. oby9.am. for additional fmrc 1-60 &amp; 1-90 windstorm resistance compliance, refer to membrane manufacturer's fmrc listing.</p> <p>standards and code compliance</p> <ul style="list-style-type: none"> <li>dens-deck roof board in 1/2" and 5/8": astm c 1177. also meets factory mutual 4450 criteria for class 1 insulated steel roof decks.</li> <li>5/8" dens-deck roof board is classified by underwriters laboratories &amp; can be used in many ul 'p' assemblies.</li> <li>1/2" dens-deck roof board adhered to a steel deck exceeds wind-uplift resistance of 90lbs./sq.ft. when installed according to fmrc standard 4450, report ji. orq45.</li> <li>1/4" dens-deck roof board: ul 790 class a listing as a "barrier board"</li> <li>overlayment and ul 1256 as a thermal barrier underlayment over steel decks.</li> <li>fmrc tested for 60 and 90 psf.</li> <li>1/4", 1/2" and 5/8" dens-deck roof board metro date approved 94-1024.05.</li> </ul> <p>END OF SECTION 07220</p> <p><b>SECTION 07240 EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)</b></p> <p><b>PART 1 GENERAL</b></p> <p>1.01 <b>SUMMARY</b></p> <p>A. materials and installation of class pb eifs system.</p> <p>1.02 <b>delivery, storage and handling</b></p> <p>A. deliver all eifs materials in their original sealed containers bearing manufacturer's name and identification of product.</p> <p>B. protect coatings (poil products) from freezing and temperatures in excess of 90° f (32° c). store away from direct sunlight.</p> <p>C. protect portland cement based materials (bag products) from moisture and humidity. store under cover off ground in a dry location.</p> <p>1.03 <b>SUBMITTALS:</b></p> <p>A. manufacturer's specifications, details, installation instructions and product data.</p> <p>B. applicator's certificate of instruction.</p> <p>C. samples of all profiles and textures for approval by architect.</p> <p>D. manufacturer's code report.</p> <p>E. manufacturer's standard warranty.</p> <p>F. a list of minimum three(3) job references.</p> <p>G. manufacturer's certification of compliance with eima standards.</p> <p>H. eps board manufacturer's certificate with the current edition of eima guideline specifications for expanded polystyrene (eps) insulation board.</p> <p>I. sealant manufacturer's certificate of compliance with eima standard 300.01.</p> <p>J. prepare and submit project-specific details (when required by contract documents).</p> <p>1.04 <b>WARRANTY</b></p> <p>A. provide manufacturer's standard seven year labor and material warranty.</p> <p><b>PART 2 PRODUCTS</b></p> <p>2.01 <b>MANUFACTURERS</b></p> <p>A. sto corp.</p> <p>B. provide eifs components from single source manufacturer or approved supplier.</p> <p>C. alternates to the approved manufacturer will be considered only if submitted to architect 10 days prior to bid in writing. submitted system must include substantiation of specified system performance, product component performance and product component descriptions.</p> <p>2.02 <b>ADHESIVE</b></p> <p>A. bits is a one-component, factory-proportioned, polymer-modified, cement-based adhesive with fiber reinforcement (for use over exterior gypsum sheathing, dens glass gsd sheathing, exterior cementation sheathing, concrete, masonry or plaster surfaces. not recommended over wood surfaces).</p> <p>2.03 <b>INSULATION BOARD</b></p> <p>A. nominal 1.0 lb/cu.ft. (16 kg/m<sup>3</sup>) expanded polystyrene (eps) insulation board in compliance with astm c 578 type i requirements and eima guideline specification for expanded polystyrene (eps) insulation board, 1-1/2" thick.</p> <p>2.04 <b>BASE COAT</b></p> <p>A. bits plus, a one-component, factory-proportioned, polymer modified cementitious base coat with fiber reinforcement and less than 33 percent portland cement content by weight to be applied at 1/16" dry thickness.</p> <p>B. sto flexyl-fiber reinforced acrylic base coat mixed with portland cement (for use as a waterproof barrier to waterproof foundations, sloped eifs shapes and parapets. sto primer is required over sto flexyl prior to applying finish coat).</p> <p>2.05 <b>reinforcing meshes</b></p> <p>A. standard mesh-nominal 4.5 oz/sq.yd., symmetrical, interlaced open-weave glass fiber fabric made with alkaline resistant coating for compatibility with eifs materials. for use at wall areas above first floor not subject to pedestrian traffic.</p> <p>B. armor mat - ultra high impact mesh - nominal 15 oz/sq.yd., ultra-high impact, double strand, interwoven, open-weave glass fiber fabric with alkaline resistant coating for compatibility with eifs materials. for use on all areas as noted on plans. standard sto mesh is required over armor mat as the second layer.</p> <p>2.06 <b>PRIMER (OPTIONAL COMPONENT)</b></p> <p>A. sto silcoprime, a silicone enhanced, primer (for silicone enhanced finishes). tinted to same color as finish coat.</p> <p>2.07 <b>FINISH COAT</b></p> <p>A. sto silili, a silicone enhanced textured wall coating with graded marble aggregate. texture and color as selected by architect. (note: specify finish color with a lightness value of 20% or &gt; over the system).</p> <p>2.08 <b>JOB MIXED INGREDIENTS</b></p> <p>A. portland cement: astm c 150, type 1 (for waterproof base coat only).</p> <p>B. water: clean and potable.</p> <p>2.09 <b>MIXING</b></p> <p>A. mix materials in accordance with manufacturer's published instructions.</p> <p><b>PART 3 EXECUTION</b></p> <p>3.01 <b>INSTALLATION</b></p> <p>A. install class pb eifs in accordance with manufacturer's current published written instructions.</p> <p>3.02 <b>PROTECTION</b></p> <p>A. provide protection of installed eifs materials from water infiltration into or behind the system.</p> <p>B. provide protection of installed eifs from dust, dirt, precipitation freezing and continuous high humidity until eifs coatings are fully dry.</p> <p>END OF SECTION 07240</p> <p><b>SECTION 07540 GREASE RESISTANT PVC MEMBRANE ROOFING</b></p>

<b>PART 1 GENERAL</b>	
<p>1.01 <b>GENERAL:</b></p> <p>A. obtain primary flexible sheet roofing from a single manufacturer. provide secondary materials as recommended by manufacturer of primary materials. do not begin roofing installation until substrates have been inspected &amp; are determined to be in satisfactory condition.</p> <p>B. provide roofing materials recognized to be a type indicated and tested to show compliance with performance in application, or provide other similar materials certified in writing by manufacturer to be equal to or better than materials specified in every respect. provide products that are recommended by manufacturers to be fully compatible with indicated substrates, or provide separate materials as required to eliminate contact between incompatible materials.</p> <p>C. roofing membrane used shall be a minimum of 60 mils (actual) with the exposed color being white.</p> <p>1.02 <b>SUBMITTALS</b></p> <p>A. submit executed copy of single ply membrane manufacturer's "limited service warranty" agreement, including flashing endorsement, signed by an authorized representative of manufacturer. provide form that is published with product literature as of date of contact documents, for a period of ten years after date of substantial completion.</p> <p><b>PART 2 PRODUCTS</b></p> <p>2.01 <b>MANUFACTURER/PRODUCTS</b></p> <p>A. mechanically fastened polymer membrane: approved products: pvc membrane; subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following</p> <ol style="list-style-type: none"> <li>pergascriptone new jersey 877-423-7663</li> <li>duro-tast roofing, saginaw, michigan, 800-248-0280</li> <li>carlisle syn tec sure-flex pvc , carlisle, pa 717-245-7053.</li> </ol> <p><b>PART 3 EXECUTION</b></p> <p>3.01 <b>INSTALLATION</b></p> <p>A. install membrane by unrolling over prepared substrate, lapping adjoining sheets as recommended by manufacturer, and bonding and sealing seams. install mechanical fasteners as recommended by manufacturer. install flashing and counter flashing as shown or recommended by manufacturer.</p> <p>B. engage an experienced installer to apply single ply membrane roofing who has specialized in application of roofing systems similar to those required for this project. installer must be acceptable to or licensed by the manufacturer, "proof will be required".</p> <p>C. work associated with the single ply membrane roofing, including, but not limited to, flashing and counter flashing, scuppers and down spouts, is to be performed by the installer.</p> <p>END OF SECTION 07530</p> <p><b>SECTION 07900 JOINT SEALERS</b></p> <p><b>PART 1 GENERAL</b></p> <p>1.01 <b>GENERAL</b></p> <p>A. provide joint sealers, joint fillers, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience. provide colors to match adjacent finish surfaces.</p> <p>B. provide sealant backings of material and type which are nonstaining, are compatible with joint substrate, sealants, primers, and other fillers, and are approved for applications indicated by sealant manufacturer.</p> <p>C. sealants: sealants shall be as follows or equal:</p> <ol style="list-style-type: none"> <li>one-part polyurethane: sonneborne sonalastic np1</li> <li>two-part polyurethane: sonneborne sonalastic np11</li> <li>silicone: dow chemical silicone rubber bathtub caulk</li> </ol> <p>D. apply joint sealer manufacturer's printed installation instruction applicable to products and applications indicated. clean out joints immediately before installing joint sealers. prime where recommended by sealer manufacturer. do not allow migration of primer onto adjacent surfaces. mask where required to protect adjoining surfaces for staining or discoloration by cleaning methods to remove smears.</p> <p>E. apply sealants in a manner so that appearance is that of a smooth, uniform, slightly concave bead. tool with caulking tool as required within 10-minutes of application. all sealed joints are to be water-tight.</p> <p>F. backer rod, polyethylene foam backer rod, nonstaining, closed-cell, expanded polyethylene foam as manufactured by dow chemical ethifoam. furnish with round edge in thickness required.</p> <p>END OF SECTION 07900</p>	
<b>DIVISION 8</b>	<b>DOORS AND WINDOWS</b>
<p><b>SECTION 08111 STANDARD STEEL DOORS AND FRAMES</b></p> <p><b>PART 1 GENERAL</b></p> <p>1.01 <b>GENERAL</b></p> <p>A. provide doors &amp; frames complying with steel door institute "recommended specifications standard steel doors and frames" ansi/sd-100.</p> <p>B. manufacturer to be a member of the steel door institute. i.e: ceco building products, republic builders products or steel craft.</p> <p>C. supplier to be a stocking distributor for one of the listed manufacturers with no less than five years of distribution for same manufacturer. supplier to have a "ul" or "warnock hersey" certified fabrication shop.</p> <p>1.02 <b>DOORS</b></p> <p>A. exterior doors to be grade ii, minimum 18 ga. a60 galvanealed face sheet with 16 ga. steel hinge channel, flush channel and inverted bottom channel. core to be honeycomb or polystyrene. door to have factory applied primed inverted top, channel with shop applied cap is not acceptable.</p> <p>B. interior doors to be grade ii, minimum 20 gage cold rolled steel face sheet with 16 gage steel hinge channel. core to be honeycomb or polystyrene.</p> <p>C. interior wood doors to be pre-finished s.c. flush wood doors by "mahawk" or equal standard wood veneer - stained and sealed.</p> <p>1.03 <b>FRAMES</b></p> <p>A. exterior door frame to conform to sdi/ansi a250.8-1998. fabricated of 16 ga. a60 galvanealed steel, corners to be face welded and ground smooth. point area with a rust inhibiting primer. anchors to be concealed.</p> <p>B. interior door frame to conform to sdi/ansi a250.8-1998. fabricated of 16 ga. cold rolled steel. corners to be face welded and ground smooth. point area with a rust inhibiting primer. anchors to be concealed. prep frame for three silleners.</p> <p>1.04 <b>HARDWARE</b></p> <p>A. prepare door and frame to receive hardware in accordance with the door schedule and templates provided by the hardware manufacturer.</p> <p>1.05 <b>FIRE RATING</b></p> <p>A. all door and frames to be fire labeled shall have appropriate labels to meet nipa and local building codes. it shall be the responsibility of the distributor to verify all modifications will meet the nipa and local building codes.</p> <p>END OF SECTION 08111</p> <p><b>SECTION 08211 FLUSH WOOD DOORS</b></p> <p><b>PART 1 GENERAL</b></p> <p>1.01 <b>GENERAL</b></p> <p>A. do not deliver doors or install until conditions for temperature &amp; relative humidity where being stabilized &amp; will be maintained in storage &amp; installation areas during remainder of construction period.</p> <p>1.02 <b>INTERIOR FLUSH WOOD SOLID CORE DOORS</b></p> <p>A. provide doors 1 3/4", 5 or 7 ply, particle board core, conforming to cwi section 1300 face veneer shall be premium grade, stain grade birch. edge strips shall be hardwood. stile edge shall not be less than 2 3/8" thick edge before trimming &amp; shall be species compatible with face veneer top and bottom and bottom edge shall not be less than 1 1/8" before trimming.</p> <p>1.03 <b>HARDWARE</b></p> <p>A. prepare door to receive hardware in accordance with the door schedule and templates provided by the hardware manufacturer.</p> <p>B. preparation of fire doors to be done at the factory or an approved "ul" or "warnock hersey" shop.</p> <p>END OF SECTION 08211</p>	

<p>LHMT Project No. 23047.00</p> <p>THIS DRAWING IS THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR USED WITHOUT THE WRITTEN PERMISSION.</p>	
 <p><b>NATIONAL RESTAURANT DESIGNERS</b> A DIVISION OF LHMT ASSOCIATES 7208 ACC BLVD., 2ND FLOOR, FALEIGH, NC 27617 PHONE: 919-244-0287 FAX: 919-244-9389</p>	
 <p>GLENN LEHMAN REG. NO. 8174 STATE OF LOUISIANA REGISTERED ARCHITECT</p>	
7/10/23	
<p><b>PROJECT: HIGHWAY 55</b> 32 PROTOTYPE 3286 HWY 190 HAMMOND, LA 70401</p> <p><b>DRAWING: ARCHITECTURAL SPECIFICATIONS</b></p>	
<p><b>Revisions</b></p> <p>THRU ADDENDUM "D" 11/21/2022</p>	
<p>END OF SECTION 08111</p> <p>SECTION 08211 FLUSH WOOD DOORS</p> <p><b>PART 1 GENERAL</b></p> <p>1.01 <b>GENERAL</b></p> <p>A. do not deliver doors or install until conditions for temperature &amp; relative humidity where being stabilized &amp; will be maintained in storage &amp; installation areas during remainder of construction period.</p> <p>1.02 <b>INTERIOR FLUSH WOOD SOLID CORE DOORS</b></p> <p>A. provide doors 1 3/4", 5 or 7 ply, particle board core, conforming to cwi section 1300 face veneer shall be premium grade, stain grade birch. edge strips shall be hardwood. stile edge shall not be less than 2 3/8" thick edge before trimming &amp; shall be species compatible with face veneer top and bottom and bottom edge shall not be less than 1 1/8" before trimming.</p> <p>1.03 <b>HARDWARE</b></p> <p>A. prepare door to receive hardware in accordance with the door schedule and templates provided by the hardware manufacturer.</p> <p>B. preparation of fire doors to be done at the factory or an approved "ul" or "warnock hersey" shop.</p> <p>END OF SECTION 08211</p>	
<p>PROJECT DATE 06/29/2023</p> <p>Drawn By CIH</p> <p>Checked By GRL</p> <p>Sheet No. <b>A701</b></p>	

Drawing File: Z:\2023\23047-HW55-Hammond LA\CAD\A701.dwg  
 Plotted by: chudson, 2023, 11/21/2022 2:29pm  
 Plotted Date: Jun 29, 2023 2:29pm

SECTION 08417 ALUMINUM STOREFRONT SYSTEM

PART 1 GENERAL

1.01 SUMMARY

A. provide aluminum storefront systems that will withstand wind pressure loads for the location indicated on the drawings per national, state and local codes.

1.02 RELATED SECTIONS

A. sealants  
B. glass and glazing

1.03 QUALITY ASSURANCE

A. installer shall be experienced to perform work of this section who has specialized in the installation of work similar to that required for this project.

B. manufacturer shall be capable of providing field service representation during construction, approving acceptable installer and approving application method.

C. verify actual measurement/openings by field measurements before fabrication, show recorded measurements on shop drawings, coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

1.04 SUBMITTALS

A. prepare, review, approve and submit specified submittals in accordance with "conditions of the contract" and division 1 submittals section.

B. submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors and textures.

C. submit current certified test reports showing compliance with code requirements dated no more than 1 year prior to submittal date.

1.05 WARRANTY

A. provide manufacturer guarantee against defects in materials or workmanship for a period of one year from the date of substantial completion.

PART 2 PRODUCTS

2.01 MATERIAL

A. aluminum storefront system(s) shall be:  
see window schedule  
B. extruded sections shall be aluminum aa-6063-15 alloy.  
C. all glazing materials shall be elastomeric glazing gaskets.  
D. aluminum moldings shall be given a caustic etch followed by an anodic oxide treatment to obtain clear anodized finish aa-112c22a31 class ii, and shall be designated as c clear finish (0.4 mil min. thick clear anodic coating.)  
E. wall thickness of framing members shall be .078 to .125.  
F. all exposed framing surfaces shall be free of scratches and other serious blemishes.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

A. compliance: comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions, and product carton instructions.

3.02 EXAMINATION

A. site verification of conditions: verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

A. adjacent surfaces protection: protect adjacent work areas and finish surfaces from damage during product installation.

3.04 INSTALLATION

A. general: install manufacturer's system in accordance with shop drawings, and within specified tolerances.

1. protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.

2. shim and brace aluminum system before anchoring to structure.

3. provide sill flashing at exterior storefront systems, extend extruded flashing continuous with sills joints, set in continuous beads of sealant.

4. verify storefront systems allow water entering system to be collected in gutters and weeped to exterior, verify weep holes are open, and metal joints are sealed in accordance with manufacturer's installation instructions.

5. locate expansion mullion where indicated on reviewed shop drawings.

6. seal metal to metal storefront system joints using sealant recommended by system manufacturer.

3.05 FIELD QUALITY CONTROL

A. manufacturer's field services: upon owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.

B. field test: conduct field test to determine watertightness of storefront system, conduct test in accordance with nomm fc-1-76 at locations selected by architect.

1. perform minimum of one test, perform test in architect's presence.

3.06 ADJUSTING AND CLEANING

A. adjusting: adjust operating items as recommended by manufacturer.

B. cleaning: the general contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site, legally dispose of debris.

C. protection: the general contractor shall protect installed product's finish surfaces from damage during construction.

END OF SECTION 08417

SECTION 08710 FINISH HARDWARE

PART 1 GENERAL

1.01 GENERAL

A. obtain each type of as specified in the door/hardware schedule hardware from a single manufacturer, although several may be indicated as offering products complying with the requirements.

B. furnish all hardware, in their original packaging, complete with accessories of proper size and design required for the purpose for which they are to be used and with all screws, shields, and other anchorage devices necessary for a complete installation. hardware schedule shown on the drawings.

C. install each hardware item in compliance with the national builders hardware association and the manufacturer's instructions and recommendations, wherever cutting and fitting is required install hardware onto or into surfaces which are later to be painted or finished in another way, coordinated removal, storage, and reinstallation or application of surface protections with finishing work.

D. set units level, plumb and true to line and location, adjust and reinforce the attachment substrate as necessary for proper installation and operation, drill & countersink units into factory prepared for anchorage fasteners, space fasteners & anchors in accordance with industry standards, set thresholds for exterior doors in full bed of butyl-rubber of polyisobutylene mastic sealant.

E. adjust & check each operating item of hardware & each door to ensure proper operation replace units that cannot be adjusted to operate freely & smoothly as intended for the application made, instruct owners in proper adjustment & maintenance of hardware during final adjustment.

1.02 KEYING

A. keying shall be per the owners requirements, tag keys and provide to owner at substantial completion.

1.03 GUARANTEE

A. provide one-year guarantee for all hardware, period of guarantee shall begin from date of owner's acceptance.

END OF SECTION 08710

SECTION 08800 GLASS & GLAZING

PART 1 GENERAL

1.01 SUMMARY

A. provide and install glazing and accessories where shown on the drawings and as specified herein. glazing types and sizes shall be as per the drawings & window schedule.

1.02 QUALITY STANDARDS

A. glazing standards: comply with recommendations of flat glass marketing association ("fgm" "glazing manual" and "sealant manual" except where more stringent requirements are indicated, refer to those publications for definitions of glass and glazing terms not otherwise defined in this section or other referenced standards.

B. safety glazing product: where safety glass is indicated or required by authorities having jurisdiction, provide type of products indicated which comply with ansi z97.1 and testing requirements of cpsc 16 cfr part 1201 for category ii materials.

C. fire-resistance-rated wire glass: provide wire glass products that are identical to those tested per astm e 163 (u) 9 and are labeled and listed by ul or other testing and inspecting agency acceptable to authorities having jurisdiction.

D. single source responsibility: provide materials obtained from one source for each type of glazing product indicated.

E. provide glass and glazing that has been produced, fabricated and installed to withstand normal temperature changes, wind loading, impact loading, without failure including loss or breakage of glass, failure of sealments or gaskets to remain watertight and airtight, restoration of glass and glazing materials, and other defects in the work.

F. field measure all openings or areas to receive glass and glazing to ascertain correct fit, improperly sized glass or glazing shall be replaced at no additional cost to owner.

SECTION 09110 METAL STUDS

METAL STUDS

A. at interior metal stud partitions, unless otherwise shown on the drawings, provide standard punch steel studs of the sizes shown on the drawings, either hot-dip galvanized or factory pre-paint: 25 ga. unless shown otherwise on the drawings. 20 ga. at all door casings.

B. accessories: provide all accessories including, but not necessarily limited to, tracks, clips, anchors, fastening devices, sound attenuation pencil rods and resilient clips, and other accessories required for a complete and proper installation, and as recommended by the manufacturer of the steel studs used.

C. meet or exceed minimum requirements of federal spec. qq-s-698 and federal spec. qq-s-775d, class d.

END OF SECTION 09110

SECTION 09250 GYPSUM WALLBOARD

PART 1 GENERAL

1.01 GENERAL

A. gypsum wallboard work shall conform to the gypsum association "recommended specifications for the application and finishing of gypsum wallboard."

B. examine substrates to which dry wall construction attaches or abuts, preset hollow metal frames, cast-in-anchors, and structural framing for compliance with requirements for installation tolerance & other conditions affecting performance of dry wall construction. do not proceed with installation until unsatisfactory conditions have been corrected.

C. do not tape and finish gypsum board when the temperature is below 60 degrees fahrenheit, the temperature of the rooms shall be held at 60 degrees fahrenheit for 48 hours before taping and finishing is to begin, maintain 60 degrees fahrenheit during and after installation, ventilates as required to remove excess humidity.

1.02 GYPSUM WALLBOARD

A. gypsum wallboard shall be manufactured by u.s. gypsum, wallboard is to meet, astm c36-84a and ss-1-30d 1/2 inches thick, 48 inches wide with tapered edges.

B. fire rated partitions install wallboard to meet separate requirements, use type iii, grade xalss, 5/8 inches thick fire retardant wallboard.

C. install gypsum board with true, even surfaces and straight, sharp corners, use full length boards where possible, end joints on the same side of a wall shall be staggered and joints on opposite side shall not occur over the same support, do not locate normal end joints at edges of openings, form joints neatly, butt boards together but do not force into place. do not butt-edges against tapered edges, no joint shall have a gap greater than 1/4 inch.

SECTION 09300 CERAMIC TILE

PART 1 GENERAL

1.01 GENERAL

A. ceramic and types are indicated on the drawings and are from a single manufacturer, other manufacturers will not be considered.

B. deliver materials in original containers with seals unbroken and labels intact until time of use, engage an experienced installer who has successfully completed tile installations similar in material, design, and to extent to that indicated for the project.

C. comply with parts of ansi 108 series of fine installation standards included under "american national standard specifications for the installer of ceramic tile" that apply to type of setting and grout materials and methods indicated. tile may be thin-set.

1.02 MORTAR AND GROUT

A. mortar shall be portland cement astm c150, type 1, grout shall be acid resistant upco hydromet, type as recommended by the manufacturer for the specific type of tile and method of installation. color for floor tile is specified on the drawings.

B. do not grout tile until tile is firmly set, soak or dampen joints of the tile to be grouted with portland cement grout, soak or dampen other joints as recommended by the grout manufacturer, force grout into joints completely, filling joints with compacted grout and covering mortar with square edged tile flush with surface, strike off tool joints of cushion edged tile to depth of cushion, fill gaps and skips, and retool.

1.03 CLEANING

A. upon completion of the placement and grouting, clean tile surface so that they are free of foreign matter, remove latex-portland cement grout residue from tile as soon as possible unglazed tile may be cleaned with acid solutions only when permitted by tile and grout manufacturer's printed instructions, but sooner than 14 days after installation, flush surface with clean water before and after cleaning.

END OF SECTION 09300

SECTION 09511 ACOUSTIC PANEL CEILINGS

PART 1 GENERAL

1.01 GENERAL

A. coordinate layout and installation of acoustical ceiling units and suspension system components with other construction that penetrates ceilings or is supported by them, including light fixtures and hvac equipment.

1.02 MINERAL-FIBER ACOUSTICAL PANELS

A. provide acoustical panels as specified on sheet id1 - finish schedules, 24 inches by 24 inches by 3/4 inches thick square edge, refer to drawings for color selection and limits of tile installation.

B. install in strict accordance with the manufacturer's printed instructions, arrange acoustical units and orient directional pattern of tiles for a uniform appearance, rest panels on flanges or inverted tees with tile units fitting neatly against butting surface and support by wall angles.

1.03 GYPSUM-BASE PANELS WITH VINYL MEMBRANE-FACED OVERLAY

A. provide acoustical panels as specified on sheet id1 - finish schedules, 24 inches by 24 inches by 3/4 inches thick square edge, refer to drawings for color selection and limits of tile installation, inches thick square edge, refer to drawings for color selection and limits of tile installation.

B. install in strict accordance with the manufacturer's printed instructions, arrange acoustical units and orient directional pattern of tiles for a uniform appearance, rest panels on flanges or inverted tees with tile units fitting neatly against butting surface supported by wall angles.

1.04 METAL SUSPENSION SYSTEM

A. provide system as specified on sheet id1 - finish schedules, suspension system shall be galvanized tee-grid, double web, intermediate duty (astm c635), electro galvanized, cold-rolled steel, 15/16 inches wide, copped bottom flange, white in color, system to include all cross, end, bridging tees, intersection clips, splices, complete exposed grid system.

B. lay out pattern in accordance with the drawings, level, true to plane, & at the required elevation, frame around all openings in ceiling lights and grilles with main runners, hangers are to be spaced at 4'-0" on center maximum, provide additional hangers as required to support light fixtures and hvac registers and grilles and interferences of duct work.

C. secure wires by looping and wire-tying, either directly to structures or to inserts, eye screws, or other devices appropriate for substrate, screw attach edge moldings to substrate at intervals not over 16 inches on center and not more than 3 inches from ends, level grid to a tolerance of 1/8 inch in 12 feet.

END OF SECTION 09511

SECTION 09705 SILKAL FLOORING (continued)

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 sq. 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 require a preliminary treatment with Silkal RE40.

E. Vapor Barriers and/or suitable means shall have been installed beneath grade slabs to prevent vapor transmission. Consult technical dept.

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:

1. Silkal 61 CD Decorative Quartz Flooring

2. Moisture Vapor Treatment (if required) Silkal RE40

3. Saturating Primer/Silkal Coat: Silkal R41 with Additive I

4. Patching/Sloping (if required) Silkal R17 Polymer Concrete

5. Coving (if required) Silkal HK20 with Silkal filler CQ

6. Topping: Silkal R61 Quartz, consisting of Silkal R61 resin and Silkal Filler

7. Topcoat(s): Silkal R81 Colorless Silkal Topcoat Resin.

7. Silkal CQ for broadcasting: Color Quartz Grey.

8. Aluminum 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, point overspud, and other dry surface accumulations and contamination by scraping, brushing, sweeping, vacuuming, and/or compressed air blowdown, to the acceptance of manufacturer.

12. Installation:

A. Application of Silkal 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.

D. in general, install gypsum board on ceiling before walls, construct ceilings with long dimension of gypsum board applied at right angles to support.

E. screw gypsum board to framing with screws not over 8 inches on center, fasten gypsum board beginning at the center and work towards outer edges, hold board firmly against wood framing while fastening, fasteners at edges of boards shall be 1/2 inch from the edge.

F. openings for electrical devices, piping, grills, and registers shall be accurately located and neatly made to closely fit the devices and be completely covered by plates and escutcheons.

1.03 TRIM PIECES

A. provide trim accessories of the sizes required for the wallboard application as manufactured by u.s. gypsum, provide dur-a-bead corner bead at external corners and no. 200-a metal casing bead where wallboard abuts other materials.

1.04 FASTENERS

A. provide screws, nails, clips, ties, and other fasteners as recommended by the gypsum manufacturer.

1.05 JOINT TREATMENT SYSTEMS

A. system shall be perforated tape and cement recommended the gypsum manufacturer.

B. apply materials in strict accordance to manufacturer's recommendations. fill joints with joint compound, embed perforated tape and apply a skim coat of joint compound over tape, apply two additional coats of joint compound allowing at least 24 hours between each coat, sand each coat, finish surfaces shall be uniformly smooth, true and in satisfactory condition to receive paint.

END OF SECTION 09250

SECTION 09255 EXTERIOR SHEATHING

PART 1 PRODUCTS

2.01 SHEATHING BOARD

A. acceptable products:

1. g-p gypsum corporation, 1/2inch dens-glass gold sheathing.
2. g-p gypsum corporation, 5/8inch dens-glass gold fireguard.
3. exterior grade plywood

B. characteristics:

1. size:
  - dens-glass gold sheathing: 1/2inch (12.7mm) thick by 4' by 8', 9' or 10' (1.9lb. per square foot).
  - dens-glass gold fireguard sheathing: nominal 5/8inch (15.9mm) thick by 4' by 8', 9' or 10' (2.5lb per square foot).
2. composition:
  - gypsum sheathing manufactured in accordance with astm c 1177 with glass mats both sides and long edges, water-resistant treated once.
3. fire resistance:
  - noncombustible when tested in accordance with astm e 136.
  - 1/2inch or 5/8inch dens-glass gold sheathing: flame spread 0, smoke developed 0, when tested in accordance with astm e 84.
  - g-p 5/8inch dens-glass gold fireguard: sheathing is rated "type x" as defined in astm c 36 when tested according to astm e 119 and can be used as a replacement to any other generic assembly utilizing a 5/8inch "type x" gypsum board (see go-600 for numeric assemblies), dens-glass gold fireguard sheathing is ul classified, type dog in ul design n501, n502, n505, u301, u302, u305, u309, u337, u425, u467, u473, x508, x516.

2.02 ACCESSORIES

A. joint tape: 2inch wide, 10 x 10 glass mesh tape.

B. joint compound: g-p gypsum corporation upproc 90 setting-type joint compound.

C. screws, metal framing:

1. type s-12, bugle head, selftapping, rust-resistant, fine thread for heavy steel gauge (12 to 22).
2. type s, bugle head, rust-resistant sharp point, fine thread for light gauge metal framing or furring.

D. dow corning 795 or equivalent.

PART 3 EXECUTION

3.01 PRECONSTRUCTION

A. examine job conditions and verify that all are satisfactory for speedy & acceptable work.

B. clean & prepare glazing support materials according to manufacturer's instructions and standards of the glass association of north america glazing manual.

C. inspection and cleaning shall include but is not limited to the following: clean dirt or foreign materials from channels, stops, rabbets, setting blocks, spacers, etc., remove non-permanent protective coatings, wipe surfaces clean immediately prior to adding primer, topsor glazing compounds, apply primer to surfaces as required to receive glazing compounds, to adding primer, topsor glazing compounds, apply primer to surfaces as required to receive glazing compounds.

3.02 INSTALLATION

A. inspect framing before installation and provide written report of any conditions that might interfere with satisfactory installation.

B. inspect glass before installation, reject any unlabeled, edge-damaged, scratched, or mis-sized pieces. leave manufacturer's labels attached until the architect directs that they can be removed.

C. install as per manufacturer's instructions and the standards of the flat glass marketing association.

D. maintain the highest standards of installation and consistency in application and appearance, install setting blocks and spacers, gaskets, and felts exactly as directed by manufacturer, support glass firmly and evenly with setting blocks, keep glass completely separated from any material other than cushioning stops, spacers, gaskets, etc., install glass to maintain uniform appearance in surfaces, do not vary glazing materials except as approved or directed by the architect.

E. install sealants to provide complete bond and to assure water will wash away from glass provide precise miter cuts or other bond joints where detailed, seal miter joints and other joints so they are completely airtight and water tight.

3.03 PROTECTION AFTER INSTALLATION

A. protect glass after installation with safety strips and warning markers, keep safety strips and warning markers off the glass surface to avoid staining or marring the surface, protect metal parts from damage after installation.

3.04 CLEANING

A. clean all glass at the conclusion of the interior work, or when directed by the architect, clean all glass with cleaner, cleaning materials, and methods recommended by the manufacturer, clean all glass completely clear of streaks or spot.

B. any glass that is scratched or damaged during cleaning will be replaced at the contractor's expense.

C. provide owner with manufacturer's instructions for cleaning.

3.05 REPAIR AND REPLACEMENT

A. remove and replace any damage glass and glazing, install, protect, and clean replacement glass as specified above.

END OF SECTION 08800

DIVISION 9 FINISHES

SECTION 09110 METAL SYSTEMS

METAL STUDS

A. at interior metal stud partitions, unless otherwise shown on the drawings, provide standard punch steel studs of the sizes shown on the drawings, either hot-dip galvanized or factory pre-paint: 25 ga. unless shown otherwise on the drawings. 20 ga. at all door casings.

B. accessories: provide all accessories including, but not necessarily limited to, tracks, clips, anchors, fastening devices, sound attenuation pencil rods and resilient clips, and other accessories required for a complete and proper installation, and as recommended by the manufacturer of the steel studs used.

C. meet or exceed minimum requirements of federal spec. qq-s-698 and federal spec. qq-s-775d, class d.

END OF SECTION 09110

SECTION 09250 GYPSUM WALLBOARD

PART 1 GENERAL

1.01 GENERAL

A. coordinate layout and installation of acoustical ceiling units and suspension system components with other construction that penetrates ceilings or is supported by them, including light fixtures and hvac equipment.

1.02 MINERAL-FIBER ACOUSTICAL PANELS

A. provide acoustical panels as specified on sheet id1 - finish schedules, 24 inches by 24 inches by 3/4 inches thick square edge, refer to drawings for color selection and limits of tile installation.

B. install in strict accordance with the manufacturer's printed instructions, arrange acoustical units and orient directional pattern of tiles for a uniform appearance, rest panels on flanges or inverted tees with tile units fitting neatly against butting surface and support by wall angles.

1.03 GYPSUM-BASE PANELS WITH VINYL MEMBRANE-FACED OVERLAY

A. provide acoustical panels as specified on sheet id1 - finish schedules, 24 inches by 24 inches by 3/4 inches thick square edge, refer to drawings for color selection and limits of tile installation, inches thick square edge, refer to drawings for color selection and limits of tile installation.

B. install in strict accordance with the manufacturer's printed instructions, arrange acoustical units and orient directional pattern of tiles for a uniform appearance, rest panels on flanges or inverted tees with tile units fitting neatly against butting surface supported by wall angles.

1.04 METAL SUSPENSION SYSTEM

A. provide system as specified on sheet id1 - finish schedules, suspension system shall be galvanized tee-grid, double web, intermediate duty (astm c635), electro galvanized, cold-rolled steel, 15/16 inches wide, copped bottom flange, white in color, system to include all cross, end, bridging tees, intersection clips, splices, complete exposed grid system.

B. lay out pattern in accordance with the drawings, level, true to plane, & at the required elevation, frame around all openings in ceiling lights and grilles with main runners, hangers are to be spaced at 4'-0" on center maximum, provide additional hangers as required to support light fixtures and hvac registers and grilles and interferences of duct work.

C. secure wires by looping and wire-tying, either directly to structures or to inserts, eye screws, or other devices appropriate for substrate, screw attach edge moldings to substrate at intervals not over 16 inches on center and not more than 3 inches from ends, level grid to a tolerance of 1/8 inch in 12 feet.

END OF SECTION 09511

SECTION 09705 SILKAL FLOORING (continued)

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 sq. 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 require a preliminary treatment with Silkal RE40.

E. Vapor Barriers and/or suitable means shall have been installed beneath grade slabs to prevent vapor transmission. Consult technical dept.

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:

1. Silkal 61 CD Decorative Quartz Flooring

2. Moisture Vapor Treatment (if required) Silkal RE40

3. Saturating Primer/Silkal Coat: Silkal R41 with Additive I

4. Patching/Sloping (if required) Silkal R17 Polymer Concrete

5. Coving (if required) Silkal HK20 with Silkal filler CQ

6. Topping: Silkal R61 Quartz, consisting of Silkal R61 resin and Silkal Filler

7. Topcoat(s): Silkal R81 Colorless Silkal Topcoat Resin.

7. Silkal CQ for broadcasting: Color Quartz Grey.

8. Aluminum 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, point overspud, and other dry surface accumulations and contamination by scraping, brushing, sweeping, vacuuming, and/or compressed air blowdown, to the acceptance of manufacturer.

12. Installation:

A. Application of Silkal 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.

DIVISION 10 SPECIALTIES

SECTION 10522 FIRE EXTINGUISHERS

PART 1 GENERAL

1.01 SUBMITTALS

A. product data: required

B. shop drawings: not required

C. samples: not required

PART 2 PRODUCTS

2.01 MANUFACTURERS/PRODUCTS

A. coordinate with local municipalities and provide fire extinguishers.

B. fire extinguishers: see drawings for specifications.

PART 3 EXECUTION

3.01 SCHEDULES

A. install as required.

END OF SECTION 10522

SECTION 09900 PAINTING

PART 1 GENERAL

1.01 GENERAL

A. It is the intent of this specification to produce a premium job, which will provide the maximum durability, which can reasonably be expected from a painted surface.

B. "Paint" includes coating systems materials, primers, emulsions, enamels, stains, sealers, and fillers, and other applied materials whether used as prime, intermediate, or finish coat.

C. specified products below are manufactured by sherwin williams, expect where other manufacturers are indicated, and establish a standard of quality, equipment products of other acceptable manufacturers may not be used unless approved by architect.

D. provide best grade and quality materials and products manufactured by sherwin williams, match colors as indicated on the drawings, use premixed paints insofar as possible, thin only as permitted any manufacturer's label instructions, and avoid unnecessary thinning.

E. protect finished surfaces, work of other trades, and property of the owner from damage and detachment, cover floors and fixed equipment with drop cloths.

F. prepare surfaces according to paint manufacturer's instructions, examine factory finished and primed surfaces to be painted, and verify compatibility of existing material with paint to be applied, apply paint in strict accordance with the manufacturer's printed instructions only to surfaces which are thoroughly dry, smooth, even, clean, free of dust and properly prepared to receive the intended finish.

1.02 PAINTING

A. ACCEPTABLE MATERIALS

1. all painting to be scheduled in the finish schedule.

2. equipment products of the following are also acceptable:  
pratt & lambert  
glidden  
porter  
benjamin moore

B. UNDERCOATS AND THINNERS

1. provide undercoat paint produced by the same manufacturer of finish coat.

2. use only thinners recommended by the paint manufacturer and use only the recommended limits.

C. COLOR SCHEDULES

1. color painting as scheduled in the finish materials schedule.

- on gypsum drywall, use:
  - 1. first coat - pigmented primer/sealer
  - 2. second coat - acrylic latex enamel
  - 3. third coat - acrylic latex enamel
- on ferrous metal, use:
  - 1. first coat - rust inhibitive alkyl metal primer
  - 2. second coat - semi-gloss alkyl enamel
  - 3. third coat - semi-gloss alkyl enamel
- on wood doors, use:
  - 1. first coat - stain (see finish schedule)
  - 2. second coat - stain (see finish schedule)
  - 3. third coat - varnish low sheen "rubbed effect"

END OF SECTION 09900

SECTION 09705 - SILKAL FLOORING

1. Work Included:

A. Work described in this section includes surface preparation and installation of Silkal 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 application. 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 sq. 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 require a preliminary treatment with Silkal RE40.

E. Vapor Barriers and/or suitable means shall have been installed beneath grade slabs to prevent vapor transmission. Consult technical dept.

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:

1. Silkal 61 CD Decorative Quartz Flooring

2. Moisture Vapor Treatment (if required) Silkal RE40

3. Saturating Primer/Silkal Coat: Silkal R41 with Additive I

4. Patching/Sloping (if required) Silkal R17 Polymer Concrete

5. Coving (if required) Silkal HK20 with Silkal filler CQ

6. Topping: Silkal R61 Quartz, consisting of Silkal R61 resin and Silkal Filler

7. Topcoat(s): Silkal R81 Colorless Silkal Topcoat Resin.

7. Silkal CQ for broadcasting: Color Quartz Grey.

8. Aluminum 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, point overspud, and other dry surface accumulations and contamination by scraping, brushing, sweeping, vacuuming, and/or compressed air blowdown, to the acceptance of manufacturer.

12. Installation:

A. Application of Silkal 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.

DIVISION 11 EQUIPMENT

THRU ADDENDUM "D"

11/21/2022

DIVISION 12 FURNISHINGS

SEE SHEET FS1

DIVISION 13 SPECIAL CONSTRUCTION

NONE SPECIFIED

DIVISION 14 CONVEYING SYSTEMS

NONE SPECIFIED

DIVISION 15 MECHANICAL

SEE MECHANICAL DRAWINGS

DIVISION 16 ELECTRICAL

SEE ELECTRICAL DRAWINGS

END OF SPECIFICATIONS

SECTION 09705 SILKAL FLOORING (continued)

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 sq. 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 require a preliminary treatment with Silkal RE40.

E. Vapor Barriers and/or suitable means shall have been installed beneath grade slabs to prevent vapor transmission. Consult technical dept.

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.

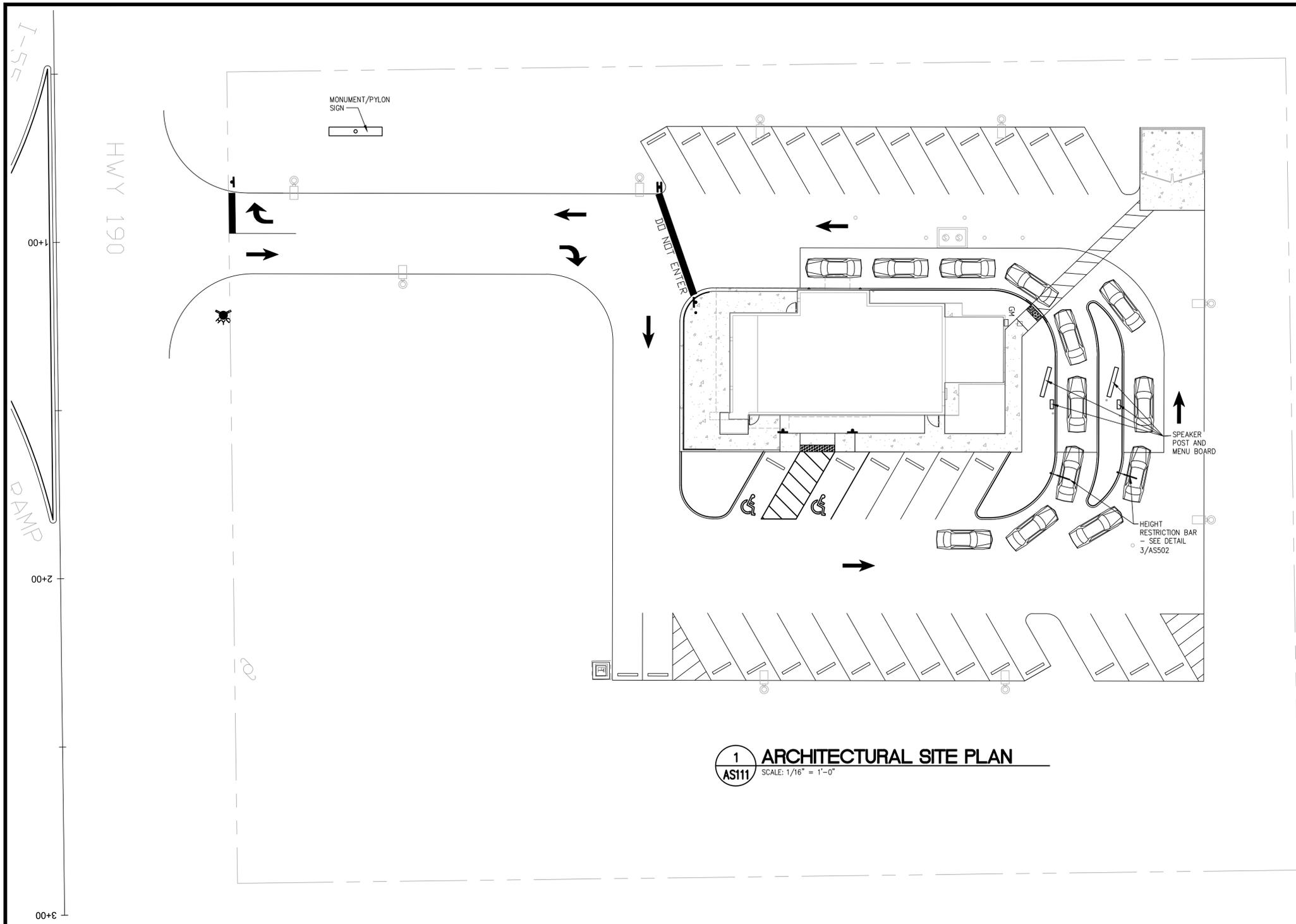
9. Materials:

1. Silkal 61 CD Decorative Quartz Flooring

2. Moisture Vapor Treatment (if required) Silkal RE40

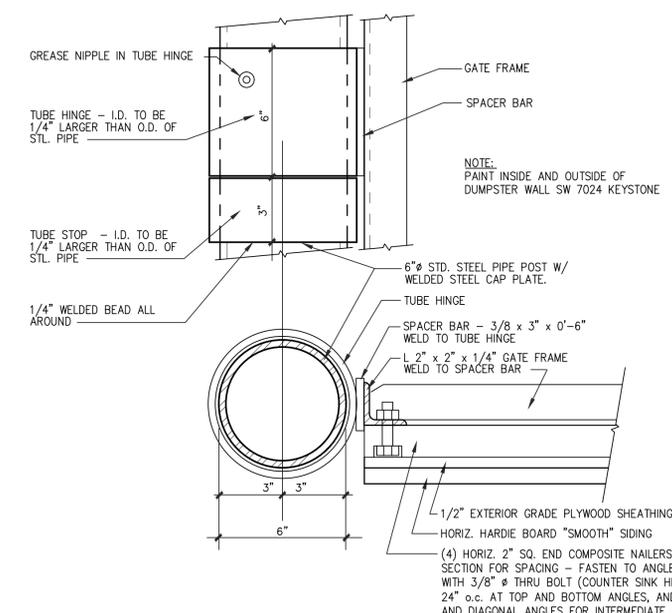
3. Saturating Primer/Silkal Coat: Silkal R41 with Additive I</

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 Plotted by: chudson  
 Plotted Date: Jul 06, 2023 - 3:27pm

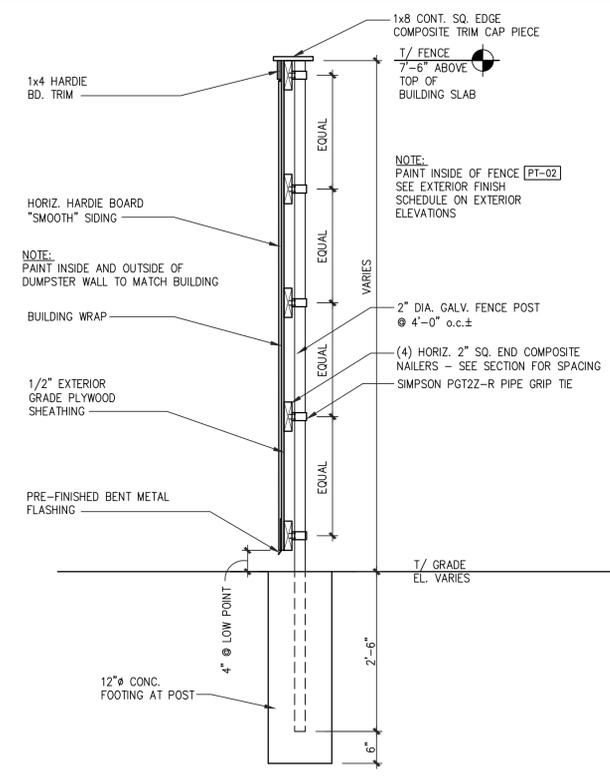


**1 ARCHITECTURAL SITE PLAN**  
 AS111 SCALE: 1/16" = 1'-0"

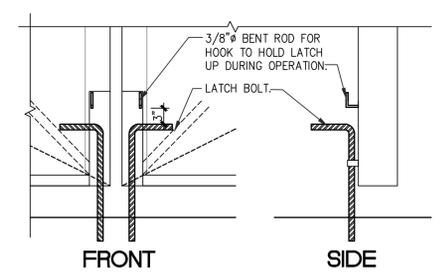
LMHT Project No. 23047.00 THIS DRAWING IS THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR USED WITHOUT THE WRITTEN PERMISSION.											
 <p><b>NATIONAL RESTAURANT DESIGNERS</b>          A DIVISION OF LMHT ASSOCIATES, INC.          7208 ACC BLVD., 2ND FLOOR,          FAYETTEVILLE, NC 27837          Phone: 919.244.0287 Fax: 919.244.9399</p>											
 <p>7/10/23</p>											
<p><b>PROJECT: HIGHWAY 55</b>          3.2 PROTOTYPE          3236 HWY 190          HAMMOND, LA 70401</p>	<p><b>DRAWING: ARCHITECTURAL SITE PLAN</b></p>										
<p><b>Revisions</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">THRU ADDENDUM "D"</td> <td style="width: 20%;">11/21/2022</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		THRU ADDENDUM "D"	11/21/2022								
THRU ADDENDUM "D"	11/21/2022										
<p>PROJECT DATE 06/29/2023</p>											
<p>Drawn By CIH/CDK</p>											
<p>Checked By NRD</p>											
<p>Sheet No. <b>AS111</b></p>											



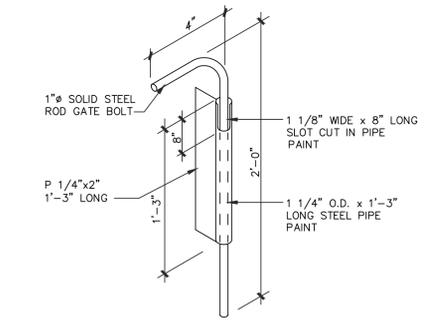
**8 GATE POST HINGE**  
 AS501 SCALE: 3\"/>



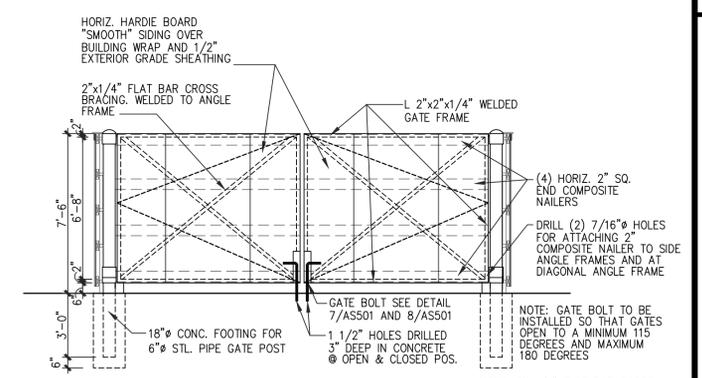
**3 FENCE • PAVEMENT/GRADE**  
 AS501 SCALE: 3/4\"/>



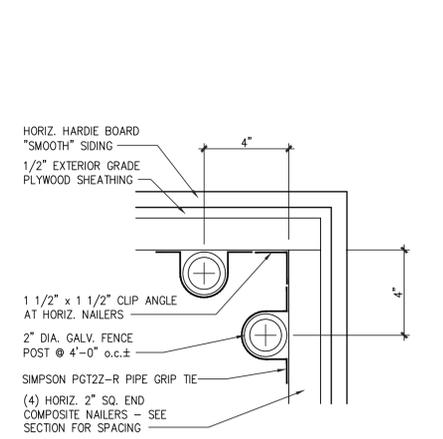
**7 GATE LATCH HOOK**  
 AS501 SCALE: 3/4\"/>



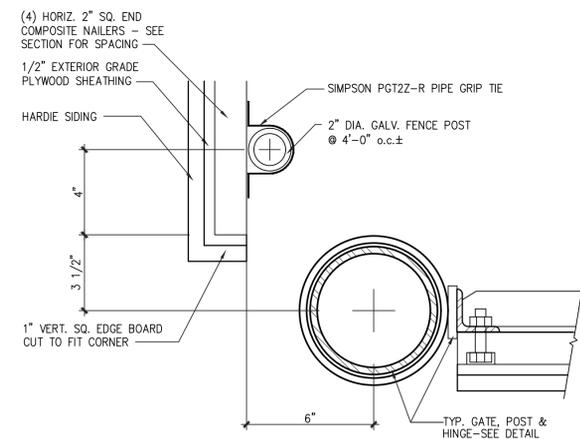
**6 GATE SLIDE BOLT LATCH**  
 AS501 SCALE: N.T.S.



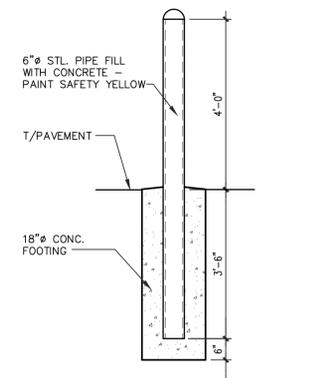
**2 FRONT ELEVATION**  
 AS501 SCALE: 1/4\"/>



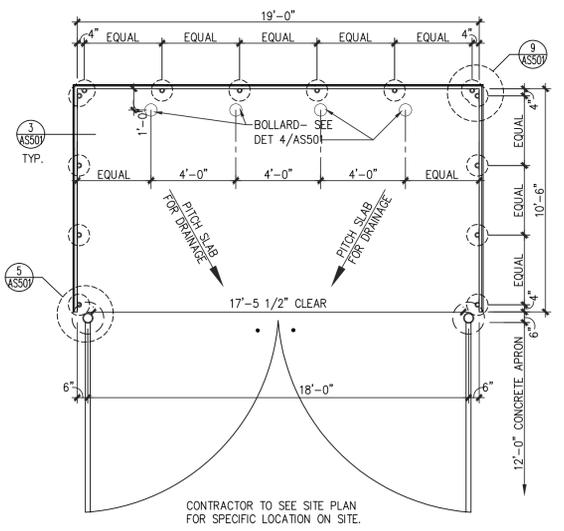
**9 INSIDE CORNER AT FENCE**  
 AS501 SCALE: 3\"/>



**5 GATE POST AT CORNERS**  
 AS501 SCALE: 3\"/>



**4 TYPICAL BOLLARD**  
 AS501 SCALE: 1/2\"/>

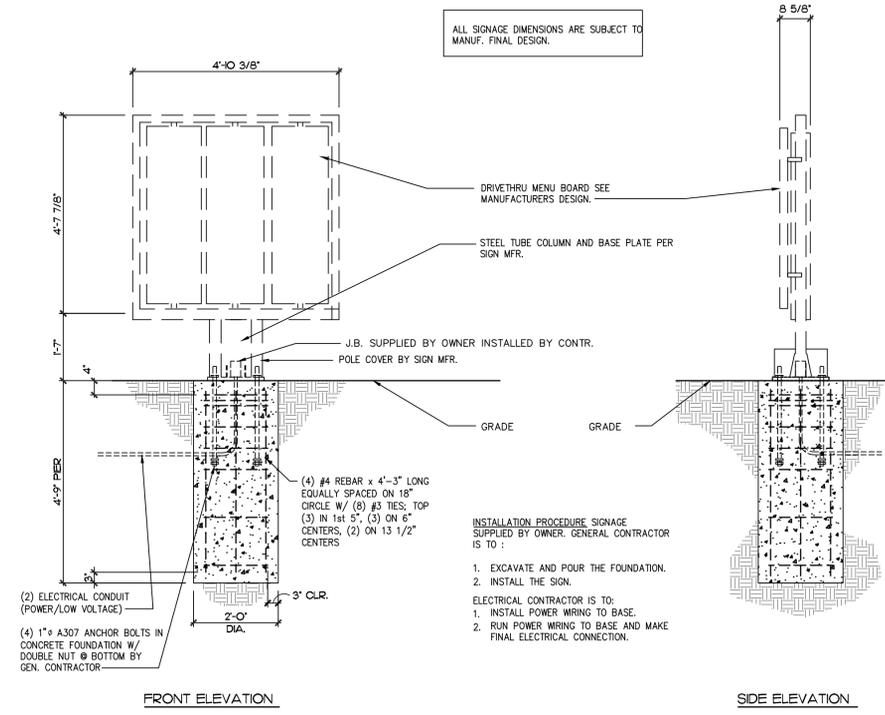


**1 TRASH CORRAL ENCLOSURE**  
 AS501 SCALE: 1/4\"/>

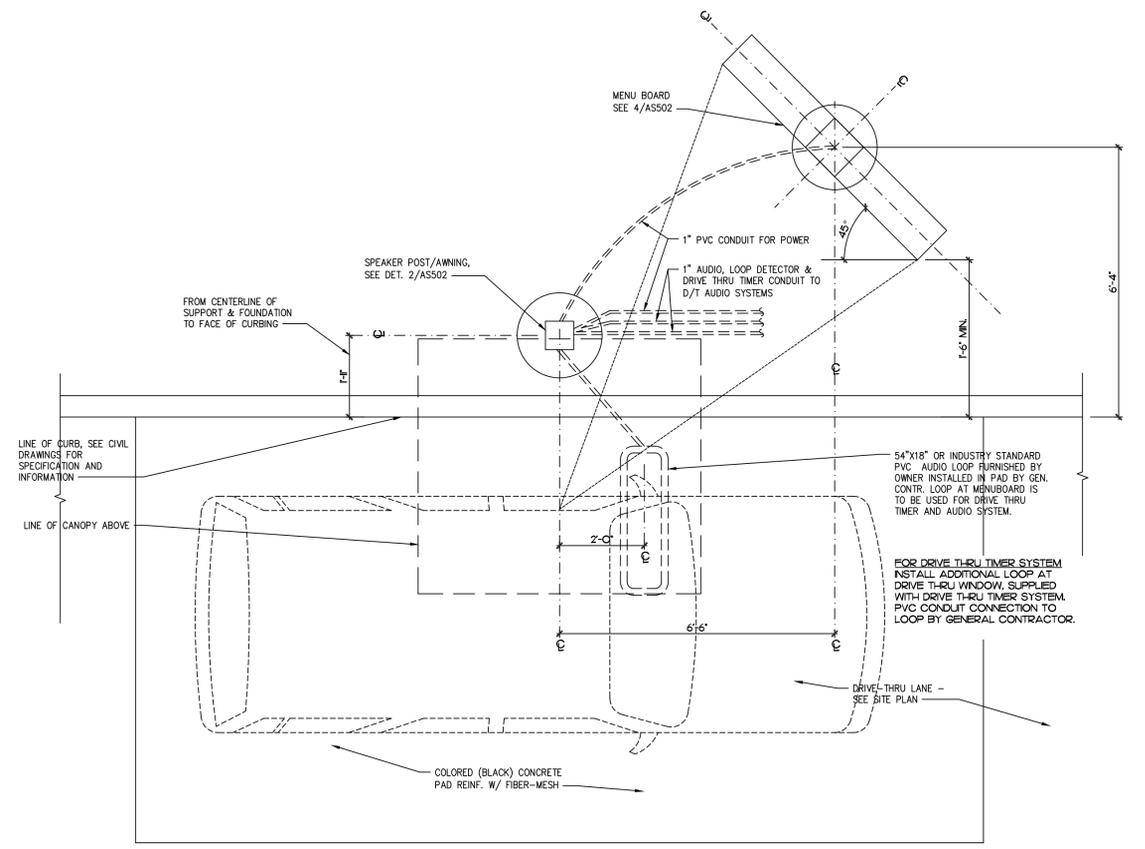
**PROJECT: HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401

**DRAWING: DUMPSTER ENCLOSURE**

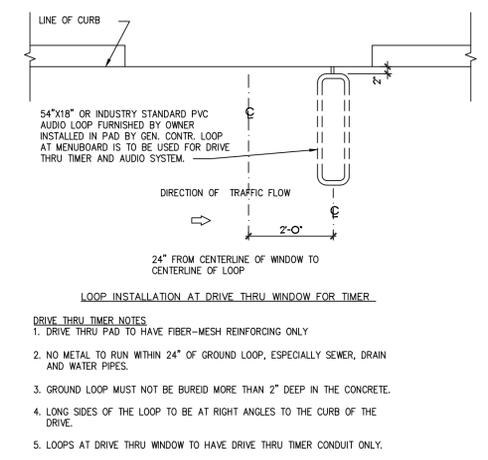
Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CIH
Checked By	GRL
Sheet No.	<b>AS501</b>



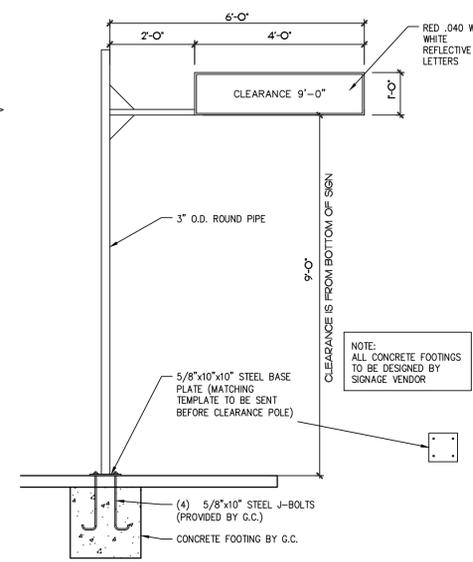
**4 DRIVE THRU MENU BOARD**  
 SCALE: 1/2" = 1'-0"



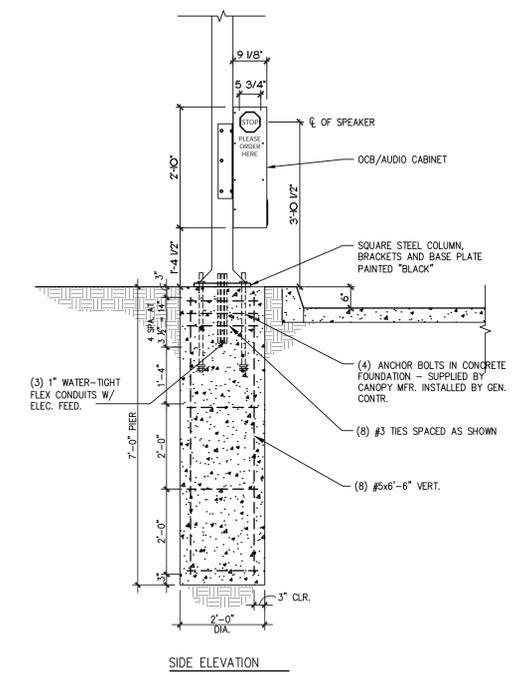
**1 DRIVE THRU MENU BOARD LAYOUT**  
 SCALE: 1/2" = 1'-0"



**5 DETECTOR LOOP SCHEMATIC AT DRIVE THRU WINDOW**  
 SCALE: 1/2" = 1'-0"



**3 HEIGHT RESTRICTION BAR**  
 SCALE: 1/2" = 1'-0"



**2 DRIVE THRU SPEAKER W/ ORDER BOARD**  
 SCALE: 1/2" = 1'-0"

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401

DRAWING: **DRIVE THRU DETAILS**

Revisions

THRU ADDENDUM "D"	11/21/2022

PROJECT DATE  
 06/29/2023

Drawn By  
 CIH

Checked By  
 GRL

Sheet No.  
**AS502**

# DT CHOICE 120VAC OUTDOOR DRIVE-THRU MENU BOARD

## INSTALLATION INSTRUCTIONS & USER GUIDE

1 It is the intent of these drawings to be used as guidelines only, for the installation of the equipment illustrated. The information contained in these documents has set forth certain assumed conditions. It shall be the responsibility of the purchaser and his contractor to verify these assumptions with local governing agencies. In addition, certain assumptions have been made and noted on the drawings and specifications for soil bearing capacity. It shall be the responsibility of the purchaser and his contractor to verify these assumptions and make the necessary revisions to the structure and the parking lot design, as indicated on the site documents provided by the owner/tenant. It shall be the responsibility of the purchaser and his contractor to submit these documents to the proper governing agencies for their review and to make all necessary modifications and/or revisions.

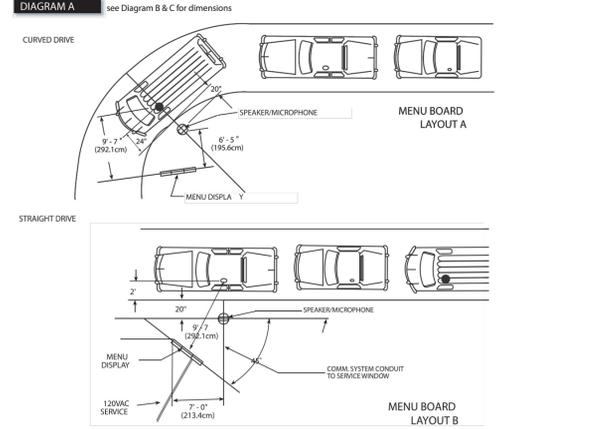
**IMPORTANT: IF AN OPTIONAL APPENDAGE IS TO BE INSTALLED, IT IS RECOMMENDED THAT IT BE MOUNTED ON THE SIDE FARTHEST FROM THE DRIVE. IF THIS IS NOT FEASIBLE, CARE SHOULD BE TAKEN TO ALLOW AMPLE CLEARANCE BETWEEN THE DRIVE AND THE APPENDAGE. FOR INSTALLATION OF THE OPTIONAL APPENDAGE, REFER TO INSTRUCTION SHEET PROVIDED WITH APPENDAGE.**

**NOTE: For new concrete installations, it is possible that you have only received the necessary hardware to mount the pedestal base. This hardware is listed under item #1, below.**

1. Before beginning installation, check that you have all required hardware:

- MENU BOARD HARDWARE**
- A. One (1) Template
  - B. Four (4) Anchor Bolts
  - C. Eight (8) Hex Nuts

2 Determine whether the menu board will be installed on a curved or straight drive (see Diagram A). Follow the proper detail for information about locating the menu board and optional speaker post. Note: These diagrams are to be used as a guide only; if they cannot be followed exactly, some modification may be made to allow for the best suited location for your installation.

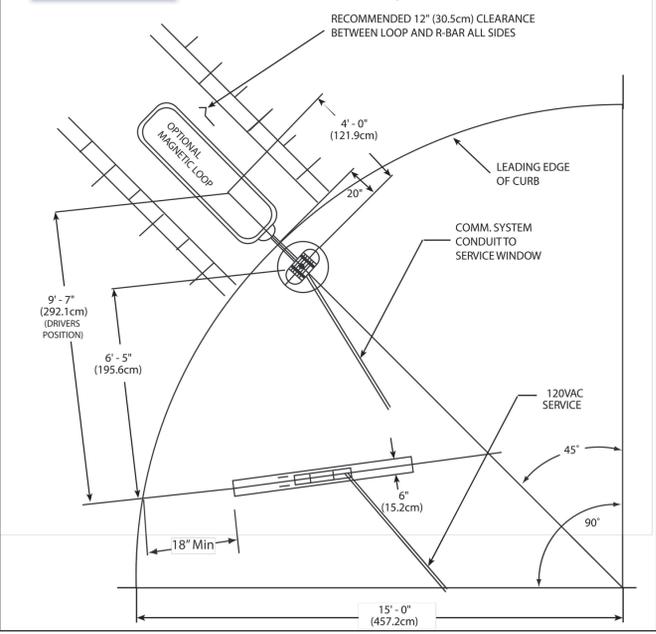


# DT CHOICE 120VAC OUTDOOR DRIVE-THRU MENU BOARD

## INSTALLATION INSTRUCTIONS & USER GUIDE

3 If the menu board is to be set back from the remote speaker / microphone post, see Diagram B for recommended positions. Construct mounting post foundation referencing Diagram E/F, and in accordance with local codes. Note: The conduit for the high voltage (120VAC) wiring must run into the back hole of the pedestal base (as viewed from the front of the menu board). Secure the template as shown in Diagram E/F, Template. Note: Four (4) hex nuts are embedded in the foundation below the template, and four (4) more are above it. Be sure that the 3/4" diameter anchor bolts extend 2-3/4" above top of footing. For speaker post foundation construction and installation, refer to the outdoor remote speaker system installation instructions, provided with the outdoor remote speaker system.

**DIAGRAM B** Menu Board w/Remote Speaker Post

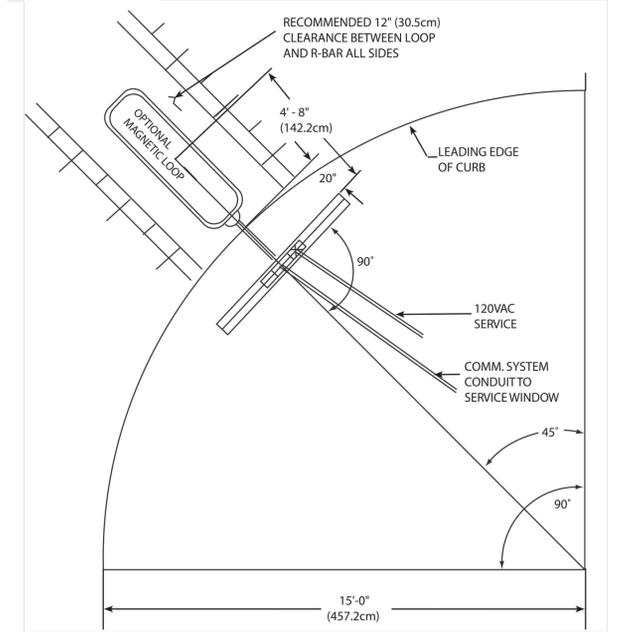


# DT CHOICE 120VAC OUTDOOR DRIVE-THRU MENU BOARD

## INSTALLATION INSTRUCTIONS & USER GUIDE

4 If the menu board is to be curbside with the speaker and microphone built in, (see Diagram C). **WARNING: DO NOT ROUTE THE SPEAKER OR MICROPHONE CABLES THROUGH THE SAME CONDUIT WITH 120VAC ELECTRICAL WIRING. THIS VIOLATES ELECTRICAL CODES, PRESENTS A SAFETY HAZARD, AND CAN CAUSE HUM PICKUP. THE CONDUIT FOR THE HIGH VOLTAGE (120VAC) WIRING MUST RUN INTO THE BACK HOLE OF THE PEDESTAL BASE (as viewed from the front of the menu board).** The conduit for the low voltage speaker/microphone wiring runs through the hole in the front of the pedestal base plate. Be sure to study the diagrams and template before construction. Construct mounting post foundation referencing Diagram D, and in accordance with local codes.

**DIAGRAM C** Menu Board w/Built-In Speaker



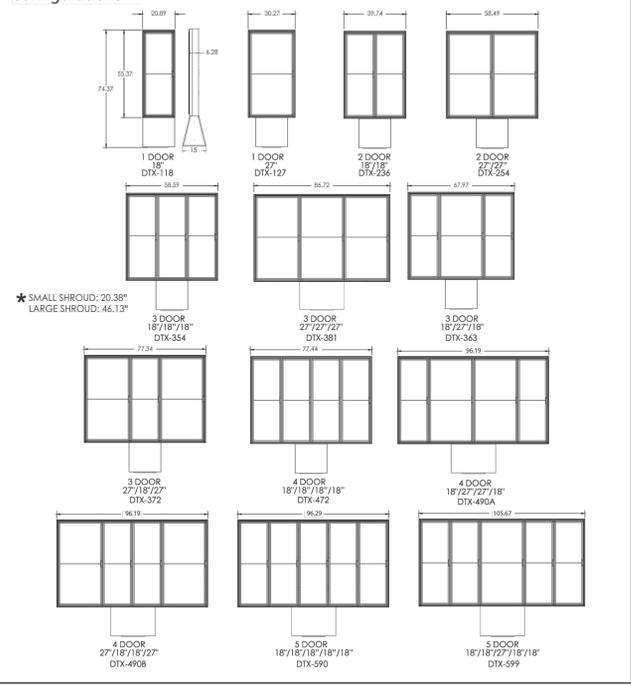
# DT CHOICE 120VAC OUTDOOR DRIVE-THRU MENU BOARD

## INSTALLATION INSTRUCTIONS & USER GUIDE

5 Construct the foundation according to local codes.

**DIAGRAM D**

Configurations



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Plotted by: chudson  
Plotted Date: Jun 29, 2023 - 2:30pm

LHMT Project No. 23047.00  
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**NATIONAL RESTAURANT DESIGNERS**  
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FALEIGH, NC 27641  
Phone: 919.244.0287 Fax: 919.544.9399

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PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401  
DRAWING: DRIVE THRU INSTRUCTION SHEETS

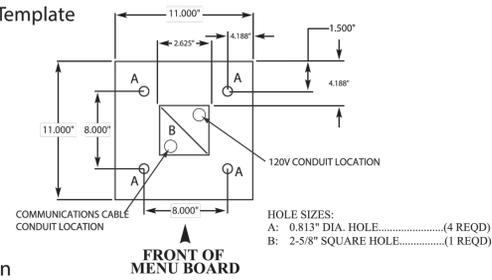
Revisions  
THRU ADDENDUM "D"  
11/21/2022  
PROJECT DATE  
06/29/2023  
Drawn By  
CIH  
Checked By  
GRL  
Sheet No.  
**AS510**

# DT CHOICE 120VAC OUTDOOR DRIVE-THRU MENU BOARD

INSTALLATION INSTRUCTIONS & USER GUIDE

## DIAGRAM E Menu Board Template & Foundation

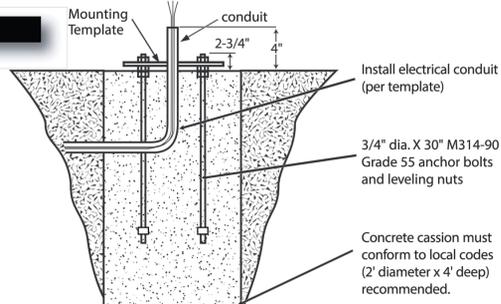
### Mounting Template



### Foundation

The high voltage conduit must be installed in place by a qualified contractor. It runs from the power source to the menu board location. A conduit stub should protrude 4\"/>

## DIAGRAM F



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P 5

C101650-002 03/17



# DT CHOICE 120VAC OUTDOOR DRIVE-THRU MENU BOARD

INSTALLATION INSTRUCTIONS & USER GUIDE

## 6 Mounting Menu Board to Foundation

After the concrete has set, remove template and discard. **NOTE: Do not discard the four (4) or, (8) nuts that were just removed.**

The pedestal base plate is now ready to be mounted. Remove any concrete residue from the threads of the anchor bolts. Thread one (1) nut onto each bolt until it stops; then put a flat washer over each bolt. Feed the 120VAC power lines and ground lead into the inside back hole of the bottom of the pedestal base (see Diagram G). Set pedestal base onto anchor bolts, place a flat and lock washer over each bolt, and thread on nut. The top surface of the pedestal base should be rough leveled at this time. Adjust the upper and lower hex nuts until the pedestal base is level and tighten. **NOTE: Final leveling can be done after the menu board is in place (if required).** Use the same procedure as above.

Prepare the pedestal base for mounting the menu board in the following manner: (See Diagram G). Remove the high voltage access cover.

Locate the power leads. These will be hanging from the opening in the bottom of the menu board.

Lift the menu board into position, so that the holes in the pedestal base align with the holes in the bottom of the unit. Before placing the menu board all the way down, feed the power leads and ground lead from the menu board opening into the menu post opening.

The menu board is factory wired and needs only to be energized on the job site. This should be done by a qualified electrician only. No disassembly is required. **FOR MENU BOARDS WITH BUILT-IN SPEAKER/MICROPHONE ONLY:** If your menu board has a built-in speaker, run low voltage wires for speaker/microphone unit inside of pedestal base hole. Connect speaker/microphone to communication system, as indicated (See Diagram H).

Connect unit power leads and grounding conductor (green lead) to the power source. Power source must be 120VAC, 60 Hz. Energize the circuit to check the operation. **WARNING: DO NOT CONNECT THE SPEAKER WIRE TO 120VAC (POWER SOURCE).** Connect the speaker/microphone (if provided) to the internal communication system (see Diagram H). Replace the high voltage access cover.

### SPECIFICATIONS:

**Box Size:** Various Sizes (see Diagram D)

**Lamps:** 48\"/>

**Electrical Requirements:**  
120VAC, 60 Hz

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P 6

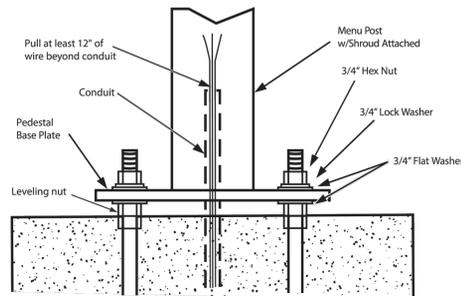
C101650-002 03/17



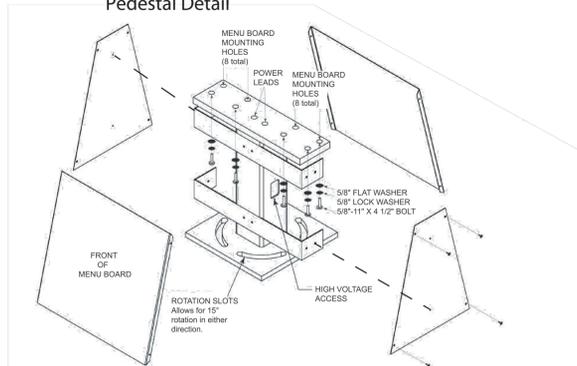
# DT CHOICE 120VAC OUTDOOR DRIVE-THRU MENU BOARD

INSTALLATION INSTRUCTIONS & USER GUIDE

## DIAGRAM G Foundation Details



### Pedestal Detail



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P 7

C101650-002 03/17



# DT CHOICE 120VAC OUTDOOR DRIVE-THRU MENU BOARD

INSTALLATION INSTRUCTIONS & USER GUIDE

### Tools Needed:



Phillips Screwdriver

## MOUNTING SHROUD COVER

### Step 1



Place side shroud panels on but do not fully tighten screws.

### Step 2



Mount the back shroud panel on first. Do not fully tighten screws. **NOTE: Back panel overlaps side panels.**

### Step 3



Next place the front shroud panel on and screw in place. **NOTE: Front panel overlaps side panels.**

### Step 4



Now that all panels are in place, tighten all screws. **Do not use a power screwdriver or over tighten screws, this may strip the holes.**

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P 8

C101650-002 03/17



## Revisions

THRU ADDENDUM "D"  
11/21/2022

PROJECT DATE  
06/29/2023

Drawn By

CIH

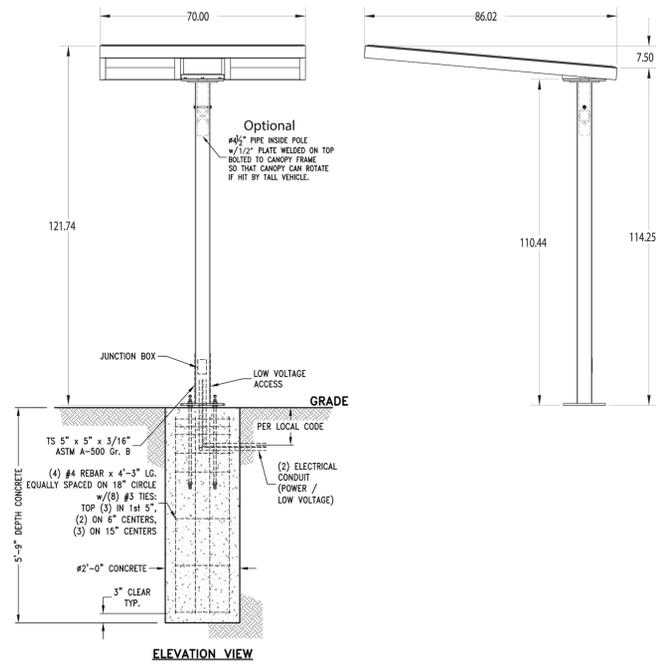
Checked By

GRL

Sheet No.

**AS511**

CANOPY FLAT TOP INSTRUCTIONS

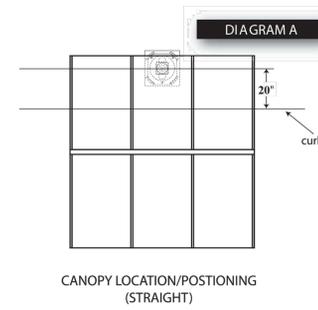


CANOPY FLAT TOP INSTRUCTIONS

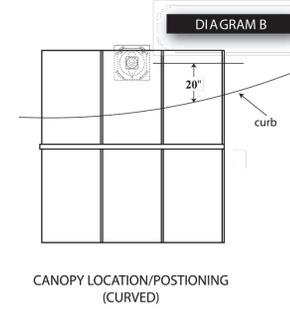
1. Before beginning the installation, check that you have all the required hardware:  
w/foundation kit: (4) Anchor bolts, (8) Hex Nuts w/ unit: (4) Hex nuts, (8) Flat washers, (4) Lock washers

2. Determine whether the canopy will be installed on a curved or straight drive (see Diagrams A or B). Follow the proper detail for information about locating the canopy. Note: These diagrams are to be used as a guide only; if they cannot be followed exactly, some modifications should be made to allow for the best suited location for your installation.

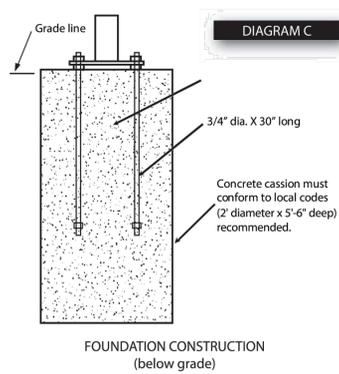
3. In the desired location, construct mounting post foundation referencing Diagram C and in accordance with local codes.



CANOPY LOCATION/POSITIONING (STRAIGHT)

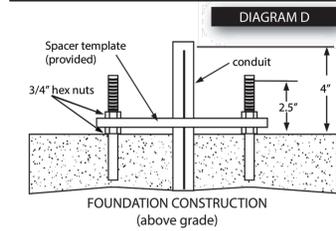


CANOPY LOCATION/POSITIONING (CURVED)



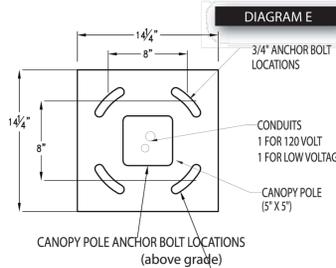
FOUNDATION CONSTRUCTION (below grade)

CANOPY FLAT TOP INSTRUCTIONS



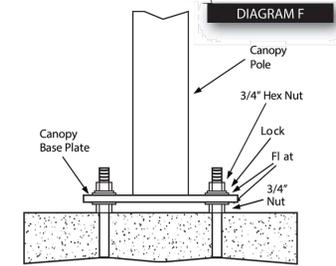
FOUNDATION CONSTRUCTION (above grade)

4. The high voltage conduit must be installed in place by a qualified contractor. It runs from the source power to the canopy location. A conduit stub should protrude 4" above the concrete slab. Power and ground leads should be pulled through the conduit approximately 30" beyond the conduit stub and accessible at the time of final wiring.



CANOPY POLE ANCHOR BOLT LOCATIONS (above grade)

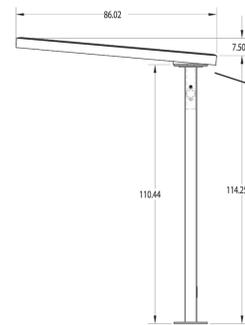
5. After the concrete has set, remove the template and discard.  
6. The canopy is ready to be mounted. Remove any concrete residue from the threads of the anchor bolts. Thread one nut onto each bolt until it stops; then put a flat washer over each bolt. place the unit onto the foundation making sure all of the anchor bolts are positioned in the corresponding canopy pole holes. Secure the unit with flat washers, lock washers, and 3/4" hex nuts (see Diagram F).



CANOPY POLE MOUNTING

7. Level the unit by adjusting the upper and lower hex nuts until the canopy pole is level and tighten the nuts.

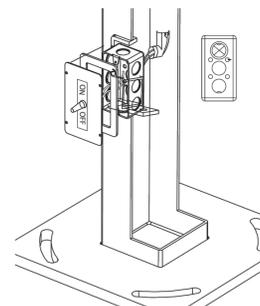
CANOPY FLAT TOP INSTRUCTIONS



Lighting Optional

4X HS15675-001 SCREW,CAP,  
1/2-13X1.75"HH,  
ASTM A-325,ZNC  
4X (4) HS12009-013 WASHER,  
FLAT,1/2,0.531X1.250X.065,  
SS,PLN

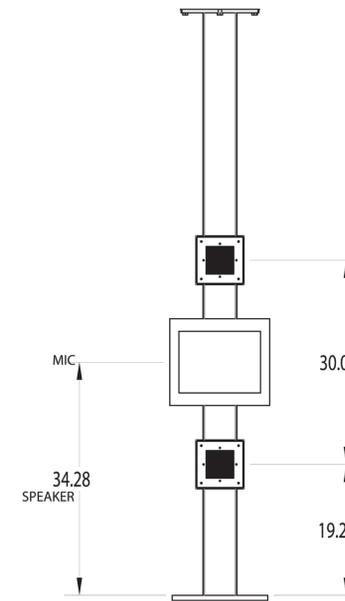
8. Lift canopy into position above top plate of pole. Feed conduit and leads down into pole. Secure with (4) 1/2" bolts, washers, lock washers, and nuts.  
**Note: fixture and junction box cover not shown**



**Warning: Be sure power is turned off before proceeding.** To wire the on/off switch the access cover must be removed from pole. Insert leads into junction box. Secure conduit to junction box with 90 degree connector (Position at top knockout as shown). Connect switch to lamp wire and power wire from conduit. Wire in accordance with national electrical code. After all connections are made reconnect switch plate to pole.

CANOPY FLAT TOP INSTRUCTIONS

Canopy Options for Order Confirmation (3M or Howard Co Speaker and MIC)



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PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3296 HWY 190  
HAMMOND, LA 70401  
DRAWING: CANOPY FLAT TOP

Revisions	
THRU ADDENDUM "D"	11/21/2022

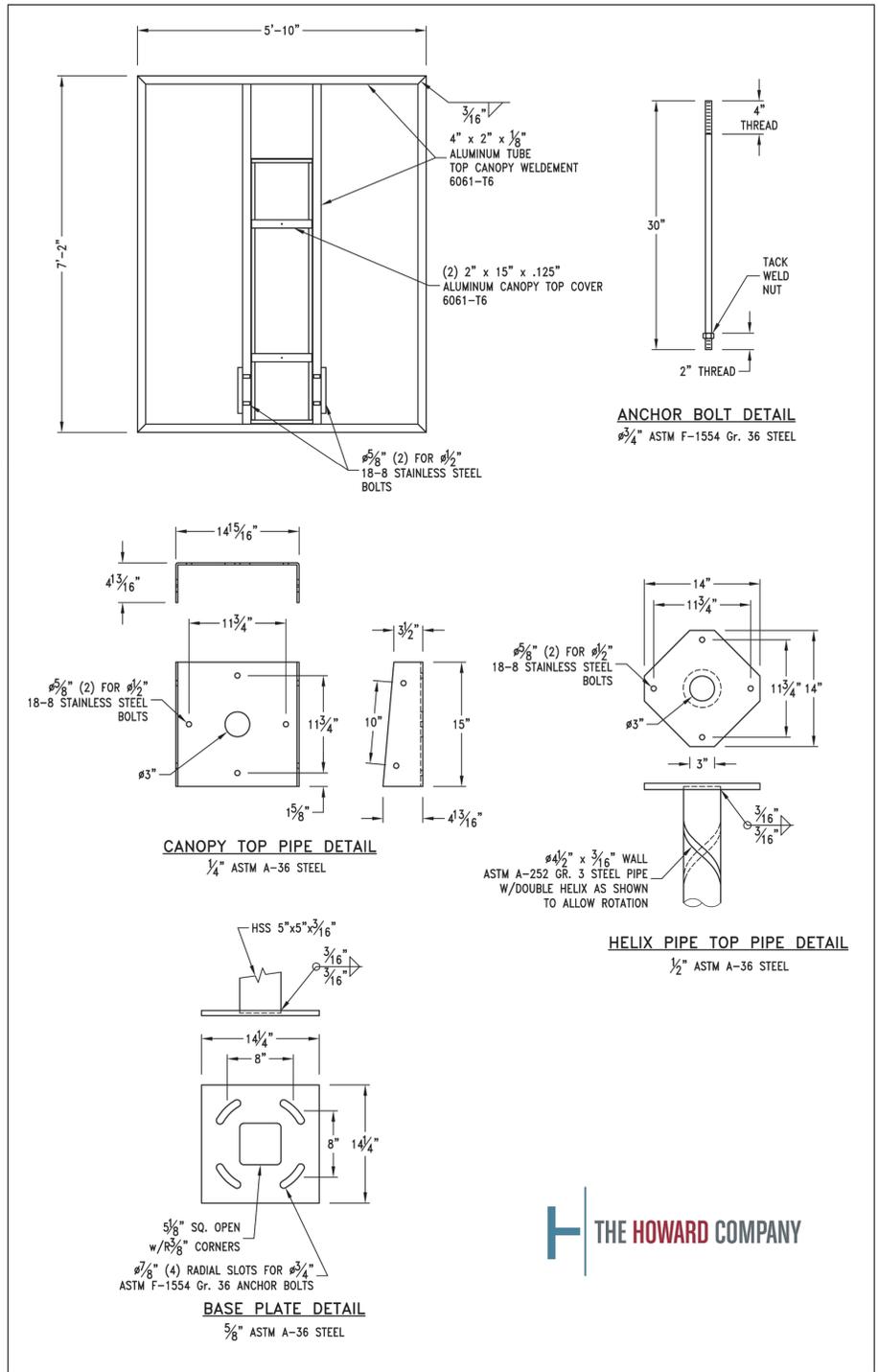
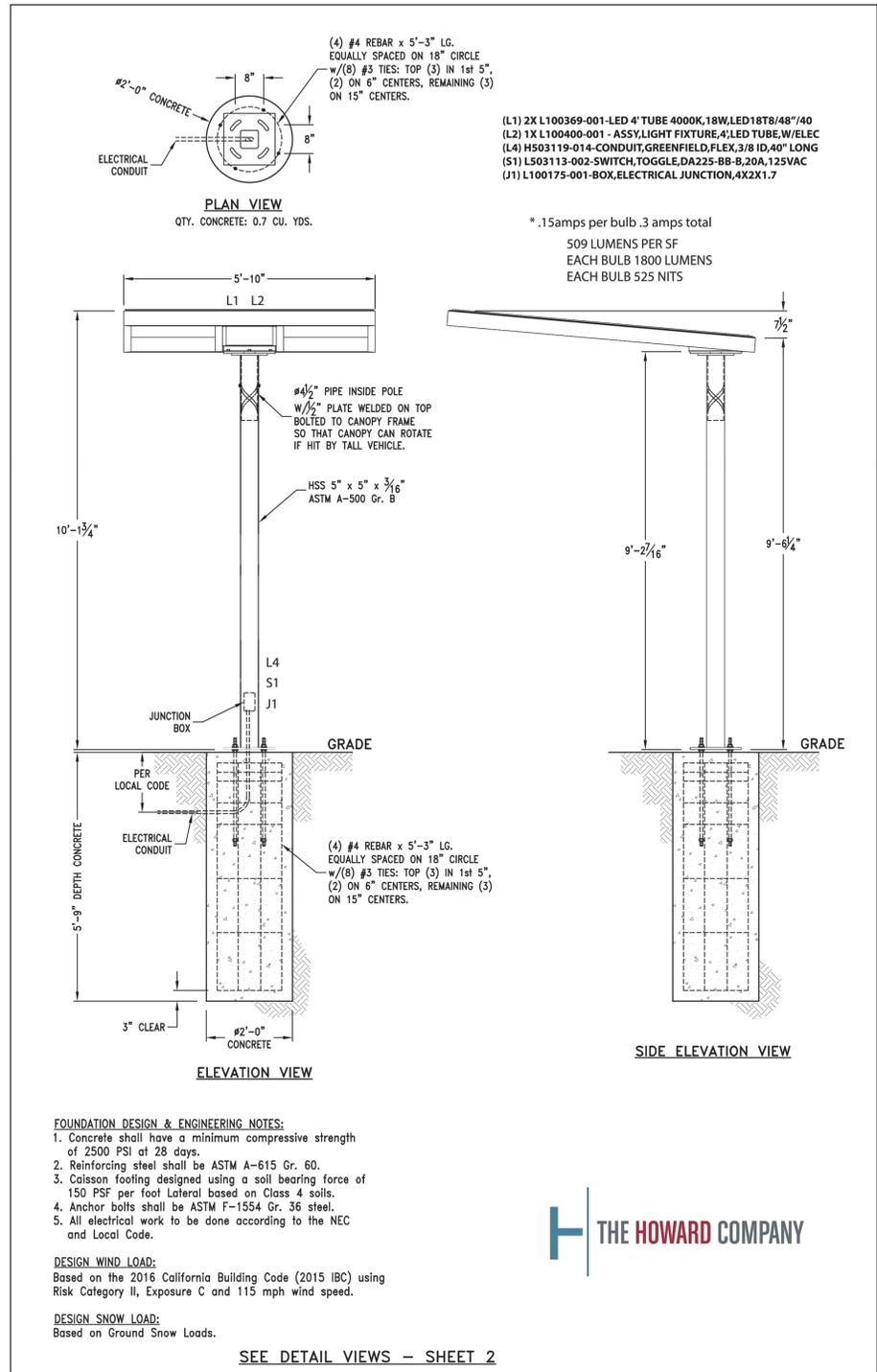
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06/29/2023  
Drawn By  
CIH  
Checked By  
GRL  
Sheet No.  
**AS512**

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Plotted by: chudson  
Plotted Date: Jun 29, 2023 - 2:30pm

SHOP DRAWING FOR  
 REFERENCE ONLY

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: CANOPY FLAT TOP WITH ELECTRICAL

Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CIH
Checked By	GRL
Sheet No.	<b>AS513</b>



Drawing File: Z:\2023\23047-HW55-Hammond\_LA\CAD\AS513.dwg  
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 Plotted Date: Jun 29, 2023 - 2:30pm

SHOP DRAWING FOR  
 REFERENCE ONLY

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401

DRAWING: PERMIT ELECTRICAL

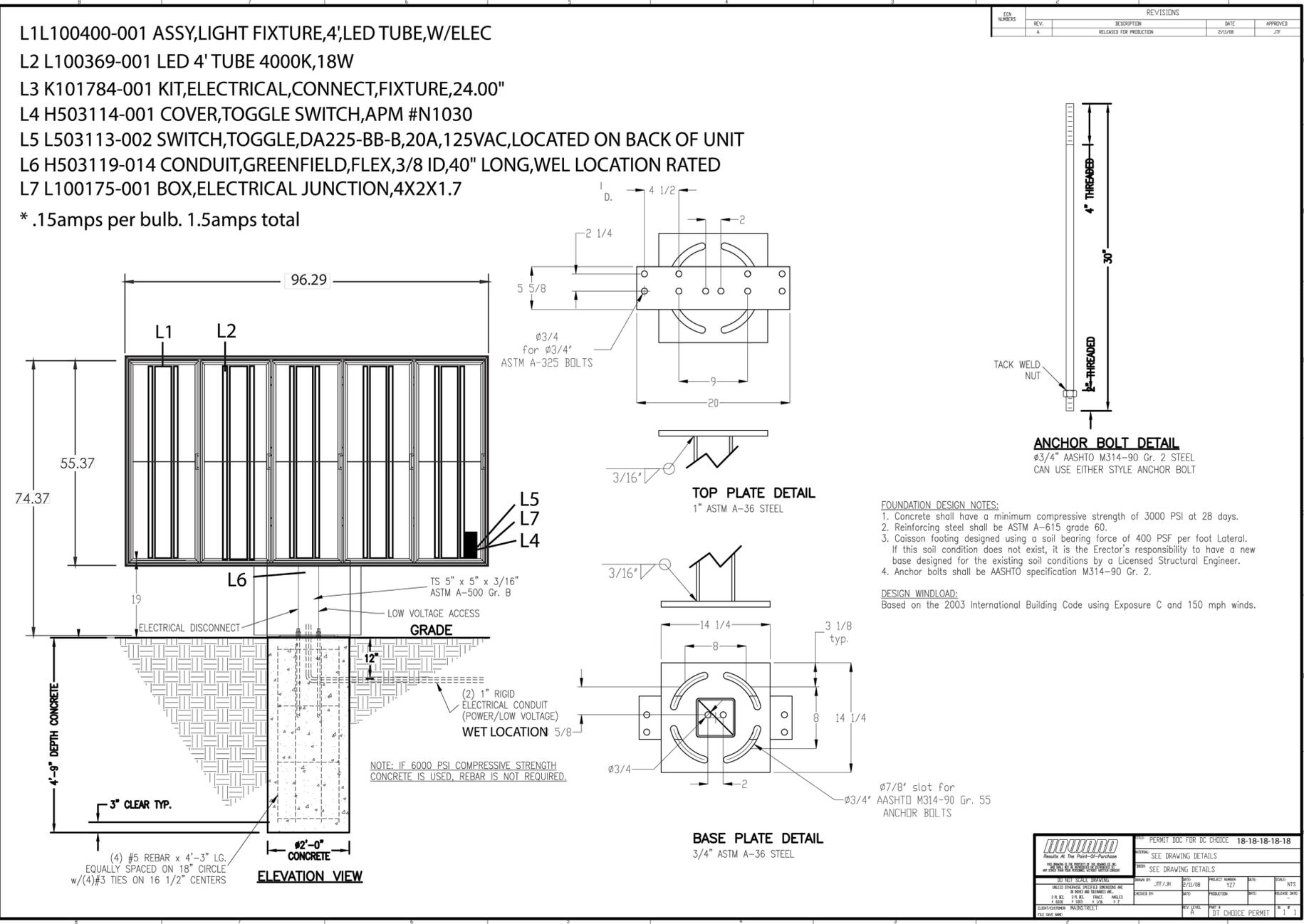
Revisions	
THRU ADDENDUM "D"	11/21/2022

PROJECT DATE  
 06/29/2023

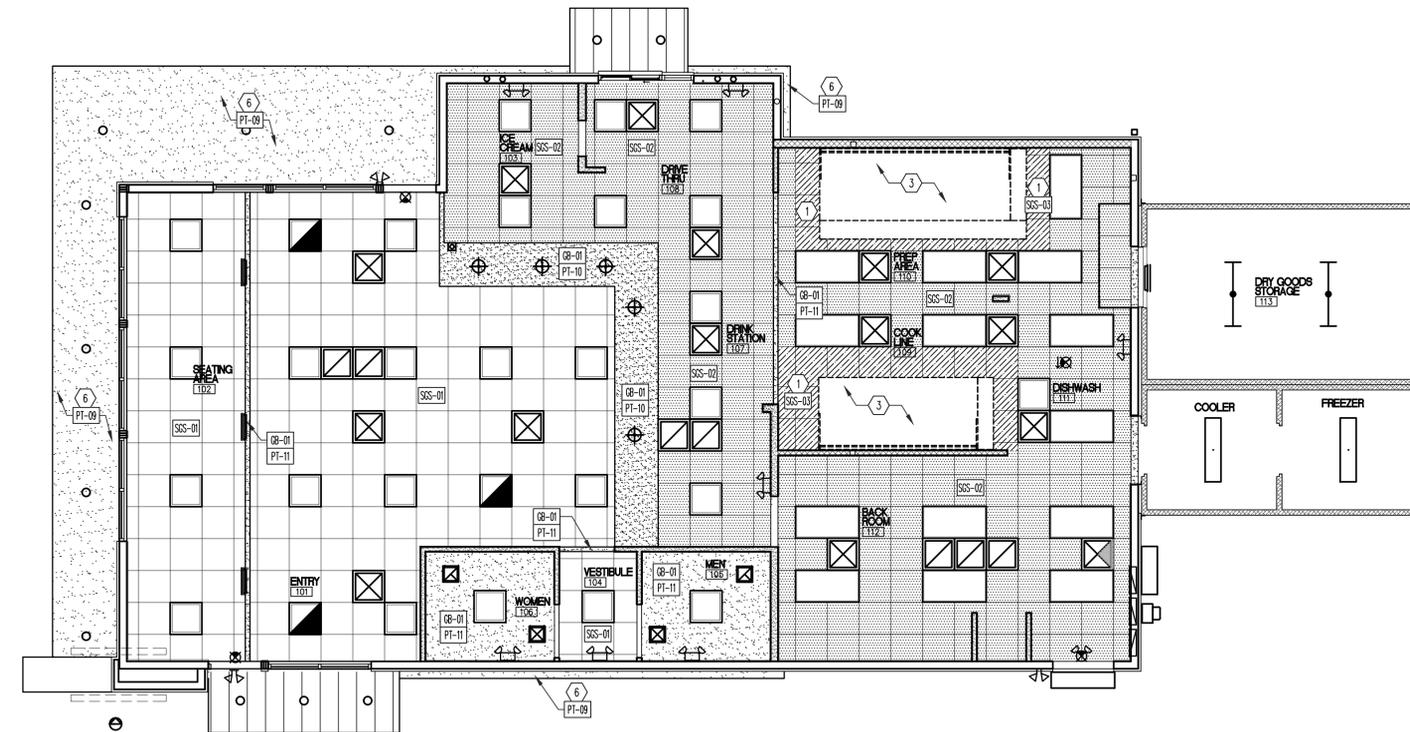
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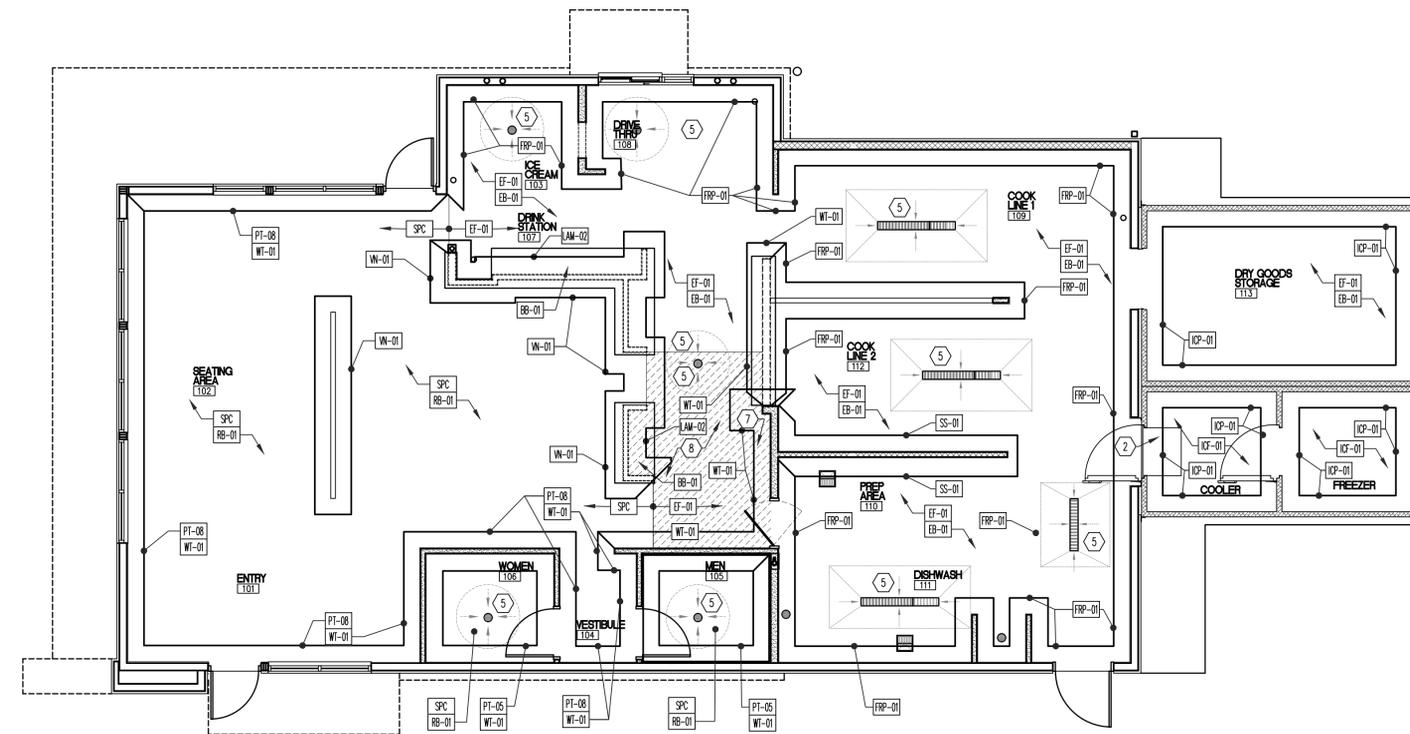
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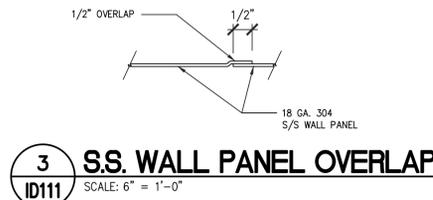


**2 REFLECTED CEILING FINISH PLAN**  
 ID111 SCALE: 3/16" = 1'-0"

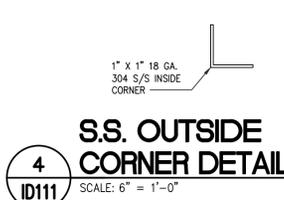


NOTE  
 CONTRACTOR TO VERIFY ALL FINISHES WITH OWNER AND HWY 55 CONSTRUCTION MANAGER BEFORE ORDERING.

**1 FLOOR FINISH PLAN**  
 ID111 SCALE: 3/16" = 1'-0"



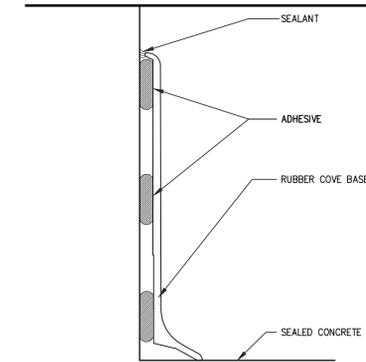
**3 S.S. WALL PANEL OVERLAP**  
 ID111 SCALE: 6" = 1'-0"



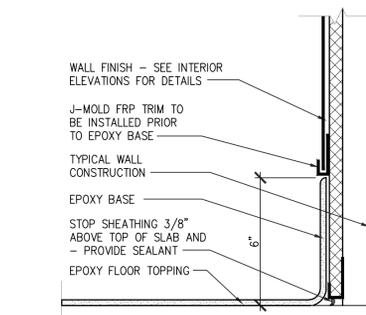
**4 S.S. OUTSIDE CORNER DETAIL**  
 ID111 SCALE: 6" = 1'-0"

**KEYED NOTES**

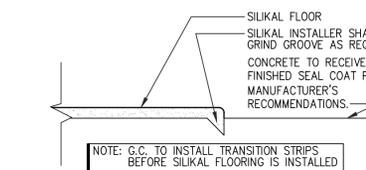
- HATCH REPRESENTS 18" NON-COMBUSTIBLE CEILING TILES AROUND HOODS, SEE RCP FOR MORE INFO
- THRESHOLD/RAMP UP INTO FREEZER PROVIDED BY FEC IN COOLER/FREEZER. COORDINATE INSTALLATION IN SLAB.
- EXHAUST HOOD - PROVIDE NON COMBUSTIBLE CEILING TILES WITHIN 18" OF GREASE EXHAUST HOOD
- TRENCH DRAIN - SLOPE CONCRETE 1/8" PER FOOT TO DRAIN AS SHOWN. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
- FLOOR DRAIN, SLOPE CONCRETE SLAB 1/8" PER FOOT IN A 2'-0" RADIUS. SEE PLUMBING DRAWINGS
- EXTERIOR E.I.F.S. - SEE DETAIL 1/A302
- CHARGING LOCATION FOR #99 SERVO-ROBOTS.
- REFER TO ALTERNATE BID ON THIS SHEET IF QUARRY TILE IS SELECTED.



NOTE: INSTALLER TO SEAL ALL EDGES OF BASE TO WALL / FLOOR AS REQUIRED.  
**A RUBBER BASE DETAIL**  
 ID111 SCALE: 1'-0" = 1'-0"



NOTE: EPOXY FLOORING/BASE TO BE APPLIED PER MANUFACTURER'S APPROVED APPLICATION PROCEDURE AND/OR RECOMMENDATION.  
**B SILIKAL BASE DETAIL**  
 ID111 SCALE: 1'-0" = 1'-0"



NOTE: G.C. TO INSTALL TRANSITION STRIPS BEFORE SILIKAL FLOORING IS INSTALLED.  
**C SILIKAL TRANSITION DETAIL**  
 ID111 SCALE: 1'-0" = 1'-0"

- REFER TO INTERIOR ELEVATIONS SHEET A111, A111A, A403, A404b AND A405c FOR PROPER WALL FINISHES.
- PROVIDE BRUSHED ALUMINUM CORNER GUARDS AT OUTSIDE CORNERS OF KITCHEN AND BACK OF HOUSE WALLS. SEE FLOOR PLAN.
- CONTRACTOR TO VERIFY ALL FINISHES WITH OWNER AND HWY 55'S CONSTRUCTION MANAGER BEFORE ORDERING. CONSULT THE APPROVED INTERIOR FINISH SELECTION SET.
- PAINT FINISH TO BE EGGSHELL.
- G.C. TO PROVIDE AND INSTALL SS WALL COVERING AND FRP.

**ALTERNATE BIDS:**

GENERAL CONTRACTOR TO PROVIDE AN ALTERNATE BID TO INSTALL MARLITE 2104-SKY WHITE 3/8 BEVELED SUBWAY ARTIZAN TILE WALL TILE SYSTEM IN THE RESTROOM AND 6' HIGH MAINSCOT IN THE DINING AREA INSTEAD OF THE TILE.  
 GENERAL CONTRACTOR TO PROVIDE AN ALTERNATE BID TO INSTALL 8"x8" ABRASIVE QUARRY TILE IN THE KITCHEN (BACK OF HOUSE) IN LIEU OF SILIKAL FLOORING. INCLUDE IN THE ALTERNATE BID TO INSTALL SANDED GROUT, QUARRY TILE BASE TO MATCH AND SCHLUTER TILE TO CONCRETE TRANSITION STRIP AS REQUIRED.  
 IF QUARRY TILE ALTERNATE IS SELECTED FOR FLOOR FINISH [EF-01] FINISH [SPC] SHALL BE EXTENDED IN DESIGNATED AREA SHOWN ON PLAN 17/0111. ABRASIVE GRT SHALL BE ADDED TO CONCRETE SEALANT PER MFR RECOMMENDATIONS WITH A DDOF EQUAL TO OR GREATER THAN TILE FLOORING SELECTED IN THIS AREA.

**FLOOR FINISH MATERIAL SCHEDULE**

CODE	MATERIAL	INFORMATION
SPC	STAINED CONC.	SPARTACOTE STAIN MAHOGANY COLOR WITH EPOXY PRIMER AND FLEX PURE SPARTACOTE TOP COAT
EF-01	SILIKAL FLOOR	SILIKAL 61-CQ - COLOR: GREY
EF-01 (ALT.)	QUARRY TILE	DALTILE - TILE COLOR: ASHEN GREY - GROUT COLOR: CHARCOAL
SC-01	SEALED CONCRETE	SAKRETE CURE AND SEAL - OR EQUAL UNDER FREEZER FLOOR
ICF-01	INSULATED COVERED FLOOR	INSULATED COVERED FLOOR W/ ALUMINUM - BY VENDOR

**WALL FINISH MATERIAL SCHEDULE**

CODE	MATERIAL	INFORMATION
WT-01	WALL TILE	DALTILE RESTORE, 4"x16" - COLOR: BRIGHT WHITE - GROUT: G-01. CERAMIC SUBWAY REFER TO MATRIX ON G003 - INSTALLED BY G.C. WITH G-01
BB-01	BUTCHER BLOCK	PROVIDED, CONSTRUCTED AND INSTALLED BY GENERAL CONTRACTOR
RB-01	RUBBER BASE	6" ROLL RUBBER COVE BASE - JOHNSONITE RMDC 38 PEWTER - SEE DETAIL A/ID111 - FOR PUBLIC AREAS
EB-01	SILIKAL BASE	SILIKAL FLOOR WITH INTEGRAL WALL BASE - SEE DETAIL B/ID111 - FOR EMPLOYEE AREAS
G-01	STANDARD GROUT	MAPEI, ULTRACOLOR PLUS, COLOR: #10- BLACK. REFER TO MATRIX ON G003 - INSTALLED BY G.C.
PT-01	PAINT	SHERWIN WILLIAMS, SW6002 ESSENTIAL GRAY - SATIN (FACES AND UNDERSIDE OF EXTERIOR SOFFIT)
PT-02	PAINT	SHERWIN WILLIAMS, SW6993 BLACK OF NIGHT - SATIN (RAILING)
PT-03	PAINT	SHERWIN WILLIAMS, SW6993 BLACK OF NIGHT - GLOSS (DOORS)
PT-04	PAINT	SHERWIN WILLIAMS, SW6993 BLACK OF NIGHT - GLOSS (OR FRAMES)
PT-05	PAINT	GLIDDEN, SURREAL BLUE #308B 45/015 (RESTROOM WALLS ABOVE TILE - EPOXY PAINT)
PT-06	PAINT	WHITE (MECHANICAL ROOM - INSIDE OF SCREEN WALL)
PT-07	PAINT	CLEAR COAT
PT-08	PAINT	GLIDDEN, SURREAL BLUE #308B 45/015 (SEATING AREA WALLS ABOVE TILE - SATIN PAINT)
PT-09	PAINT	SHERWIN WILLIAMS, SW6002 ESSENTIAL GRAY - SATIN (UNDERSIDE OF EXTERIOR SOFFIT)
LAM-01	PLASTIC LAMINATE	PLASTIC LAMINATE BY OWNER, COLOR: BLACK
LAM-02	PLASTIC LAMINATE	PLASTIC LAMINATE BY OWNER
VN-01	WOOD	CABINET GRADE PLYWOOD STAINED CHERRY (COLOR TO MATCH DINNING ROOM TABLES)
FRP-01	FRP BOARD	MARLITE 4' X 10', COLOR TO BE GREY PEBBLED
SS-01	STAINLESS STEEL	304 STAINLESS STEEL, 18 GA., #4 FINISH, FURNISHED AND INSTALLED BY HVAC CONTRACTOR
ICP-01	INSULATED COVERED PANEL	INSULATED COVER PANEL WALLS W/ ALUMINUM - BY VENDOR

**GENERAL NOTES**

- HWY 55 WILL PROVIDE GUIDELINES ON ALL FINISHING MATERIALS TO BUY, AND THEY WILL BE ITEMIZED AND PURCHASED BY THE GENERAL CONTRACTOR AND / OR DEVELOPER.
- ALL SCHLUTER WATERPROOFING AND UNCOUPLING MEMBRANE WORK IS TO BE PERFORMED BY THE GENERAL CONTRACTOR AND SCHLUTER SYSTEMS CERTIFIED TILE CONTRACTOR. PROVIDED BY HWY 55: GUIDELINES FOR THE SPECIFIC DITRA UNCOUPLING MEMBRANE, KERDI WATERPROOFING MEMBRANE, KERDI BAND, KERDI FIX, SCHLUTER ALL SET MORTAR TO USE. PROVIDED BY G.C.: DITRA UNCOUPLING MEMBRANE, KERDI WATERPROOFING MEMBRANE, KERDI BAND, KERDI FIX, SCHLUTER-CERTIFIED TILE CONTRACTOR, LABOR FOR WATERPROOFING, WATER FOR ALL SET MORTAR, AND UNCOUPLING SCOPE.
- ALL TILE AND SCHLUTER PROFILE INSTALLATION SCOPE TO BE PERFORMED AND SUPERVISED BY THE GENERAL CONTRACTOR USING SCHLUTER SYSTEMS CERTIFIED TILE CONTRACTOR. PROVIDED BY HWY 55: GUIDELINES FOR THE SPECIFIC WALL TILE, FLOOR TILE, SCHLUTER SYSTEMS PROFILES AND SETTING MORTAR TO USE. PROVIDED BY G.C.: WATER FOR SETTING MATERIALS, WALL TILE, FLOOR TILE, SCHLUTER SYSTEMS PROFILES AND SETTING MORTAR, LABOR FOR INSTALLATION AND CLEAN UP.
- ALL CONCRETE FLOOR COATINGS SCOPE TO BE PERFORMED BY THE GENERAL CONTRACTOR AND LATIACRETE / SPARTACOTE CERTIFIED FLOORING CONTRACTOR. PROVIDED BY HWY 55: GUIDELINES FOR THE SPECIFIC FLOOR COATING MATERIALS TO USE. PROVIDED BY G.C.: FLOOR COATING MATERIALS, SLAB PREPARATION AND INSTALLATION OF FLOOR COATINGS BY CERTIFIED LATIACRETE / SPARTACOTE INSTALLERS.
- ALL CEILING GRID AND TILES TO BE INSTALLED BY THE GENERAL CONTRACTOR USING THE ROCKFON SYSTEM DEFINED. NO SUBSTITUTE SYSTEMS WILL BE PERMITTED.
- ALL PAINT SCOPE DEFINED IS TO BE INSTALLED BY THE GENERAL CONTRACTOR. PROVIDED BY HWY 55: GUIDELINES ON BRAND COLORS TO USE, INCLUDING THE SHERWIN WILLIAMS NAME AND REFERENCE NUMBER. PROVIDED BY G.C.: ALL PAINT, CAULKING, PRIMER, MASKING SUPPLIES, DROP CLOTHS AND LABOR TO COMPLETE THE PAINT SCOPE.
- HWY 55 SHALL PROVIDE GUIDELINES FOR: THE SPECIFIC COUNTERS AND LAMINATES FOR COUNTERS. PROVIDED BY G.C.: COUNTERS, LAMINATES FOR COUNTERS, FRAMING FOR COUNTERS, SUBSTRATE FOR COUNTERS AND LAMINATES, AND LABOR TO INSTALL THE FINISH PACKAGE MATERIALS.

**CEILING FINISH MATERIAL SCHEDULE**

CODE	MATERIAL	INFORMATION
SSS-01	ACOUSTICAL LAY-IN CEILING TILES	GRID: ROCKFON - CHICAGO - METALIC - COLOR TO MATCH TILE - TILE: 2x2 ROCKFON CINEMA BLACK
SSS-02	ACOUSTICAL LAY-IN CEILING TILES	GRID: DONN DXLA SYSTEM - FLAT WHITE - TILE: 2x2 USG VNYL-FACED GYPSUM - #050 WHITE
SSS-03	NON-COMBUSTIBLE ACOUSTICAL LAY-IN CEILING TILES	GRID: DONN DXLA SYSTEM - FLAT WHITE - TILE: 2x2 METAL PRE-FINISHED LAY-IN CEILING TILES - #050 WHITE
GB-01	GYPSUM BOARD	GYPSUM BOARD CEILING WITH ORANGE PEEL FINISH
PT-10	PAINT	SHERWIN WILLIAMS, SW6866 HEARTHROB - EPOXY PAINT (FACES AND UNDERSIDE OF INTERIOR SOFFIT)
PT-11	PAINT	SHERWIN WILLIAMS, SW7009 PEARLY WHITE - EPOXY PAINT

**MILLWORKS FINISH MATERIAL SCHEDULE**

CODE	MATERIAL	INFORMATION
QC-01	QUARTZ	SUPPLIED AND INSTALLED BY G.C., COLOR: QUARTZ, SILESTONE, NEGRO STELLAR
LAM-01	LAMINATE	SUPPLIED AND INSTALLED BY G.C., COLOR: BLACK
LAM-02	LAMINATE	SUPPLIED AND INSTALLED BY G.C.
PL-02	DINING TABLES	BY VENDOR
ST-01	STAINLESS STEEL	STAINLESS STEEL LAVATORY BOWL W/ OVERFLOW
ST-02	STAINLESS STEEL	STAINLESS STEEL EDGED COUNTERTOPS BY OWNER - G.C. TO COORDINATE SIZES AND INSTALL
UPH-01	UPHOLSTERY	SUPPLIED BY OWNER
UPH-02	UPHOLSTERY	SUPPLIED BY OWNER
VNVL	UPHOLSTERY	-

NOTE:  
 1. ALL ARTWORK OWNER PROVIDED - G.C. INSTALLED.  
 2. ARTWORK COMES WITH SECURITY HARDWARE.

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 Plotted Date: Jun 29, 2023 - 2:57pm

### INTERIOR TABLE/SEAT CALCULATION

ITEM	DESCRIPTION	FURNITURE QUANTITY	SEATING QUANTITY
80	BAR STOOL	3	3
82H	2 SEAT HI-TOP TABLE - 24X48	2	4
85H	4 SEAT HI-TOP TABLE - 24X48	2	8
82HC	4 TOP ADA TABLE - 30X48	3	12
85	BOOTH - 30X48	1	4
85A	BOOTH - 30X60	5	25
TOTAL		16	56

\* THIS SEATING ARRANGEMENT ACCOMMODATES 14 PARTIES

### EXTERIOR TABLE/SEAT CALCULATION

ITEM	DESCRIPTION	FURNITURE QUANTITY	SEATING QUANTITY
87	OUTDOOR - 30X48	2	8
87HC	OUTDOOR - 30X48 - ADA	1	4
87A	OUTDOOR - 36" ROUND TABLE	3	12
87AHC	OUTDOOR - 36" ROUND ADA	1	4
TOTAL		7	28

\* THIS SEATING ARRANGEMENT ACCOMMODATES 7 PARTIES

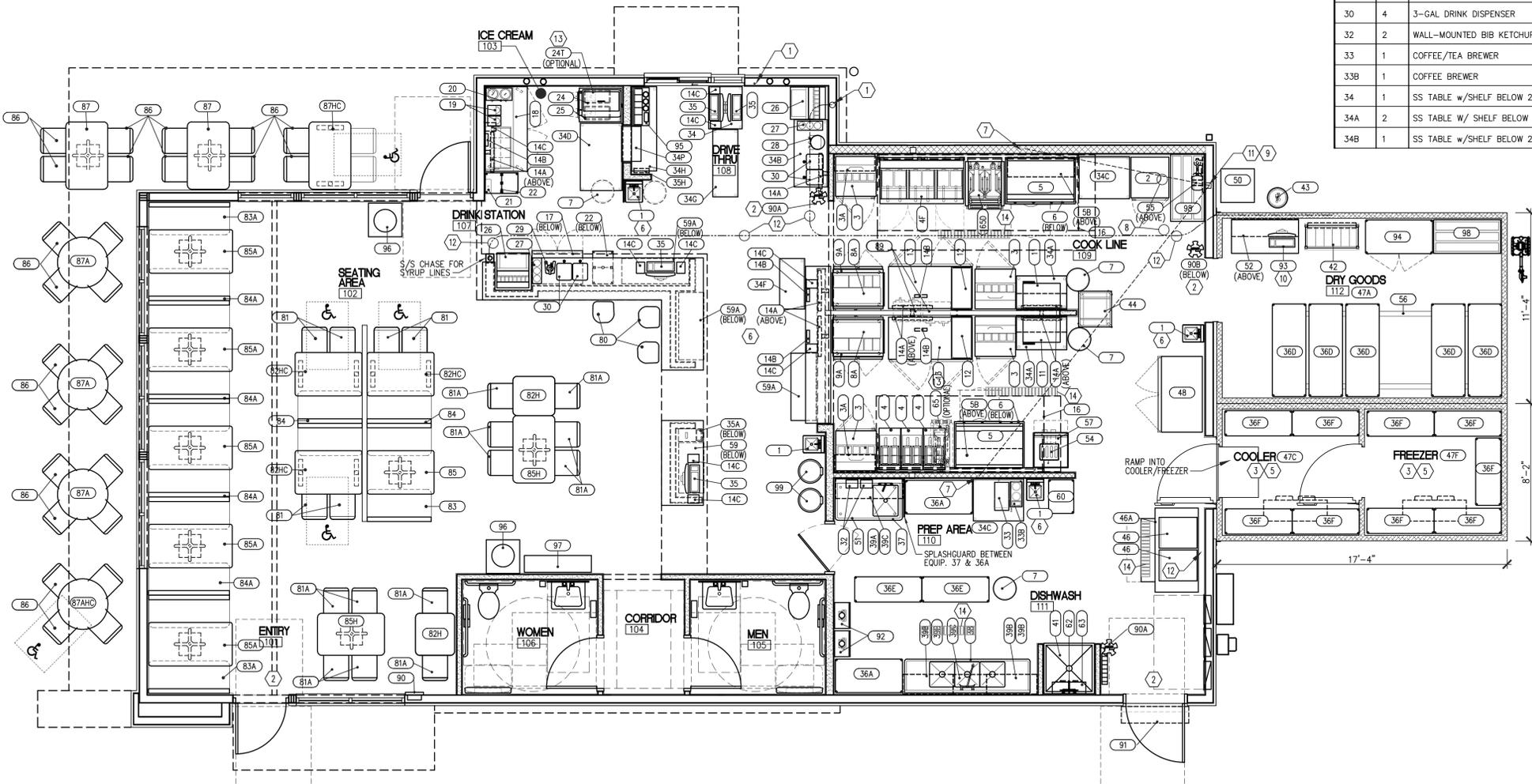
### CONSTRUCTION NOTES

- 1 PVC CHASE BY G.C. FOR SODA LINES - COORDINATE WITH SODA VENDER
- 2 SURFACE MOUNTED FIRE EXTINGUISHER / FIRE EXTINGUISHER CABINET IN THE DINING - SEE DETAIL 5/502.
- 3 WALK-IN COOLER / FREEZER w/INTERGRAL CONDENSERS MOUNTED ON UNIT.
- 4 LOW VOLTAGE CONDUIT TO EQUIPMENT FOR LOW VOLTAGE SYSTEM - G.C. TO INSTALL - COORDINATE W/EQUIPMENT SUPPLIER
- 5 INSULATED FLOOR / SLAB - BY EQUIPMENT VENDOR
- 6 HAND SINK - SEE PLUMBING DRAWINGS
- 7 4"x4" SQ. CHASE FOR OIL SYSTEM INSTALLED BY GC - SEE DET. 4/A502 & 8/A502 - COORDINATE W/EQUIPMENT SUPPLIER.
- 8 PROVIDE 1 1/4" BLACK IRON PIPE UP THROUGH WALLS / CEILING FOR WASTE OIL RECOVERY SYSTEM
- 9 CONNECTION FOR GREASE / OIL WASTE
- 10 SHELVING DESK TO HAVE SOLID S.S. TOP AT 34" A.F.F. WITH SHELVES ABOVE DESK - EXACT SPEC BY THE TENANT.
- 11 4"x4" SQ. CHASE FOR OIL SYSTEM INSTALLED BY GC - SEE DET. 8/A502 - COORDINATE W/EQUIPMENT SUPPLIER.
- 12 SODA SYSTEM SYRUP LINE BUNDLE - ROUTING ABOVE CEILING DOWN WALLS TO SODA MACHINES.
- 13 OPTIONAL EQUIPMENT - G.C. TO VERIFY/COORDINATE FINAL EQUIPMENT PACKAGE PRIOR TO INSTALLING UTILITIES OR CONNECTING EQUIPMENT.
- 14 TRENCH DRAIN BY P.C. - SEE PLUMBING SHEETS.

### GENERAL NOTES

1. ALL FURNITURE TO BE SELECTED AND PROVIDED BY OWNER - COORDINATE WITH EQUIPMENT SCHEDULE
2. G.C. TO COORDINATE ALL CLEARANCES REQUIRED FOR EQUIPMENT AND MILLWORK WITH EQUIPMENT SUPPLIER.
3. ALL CABINETS / COUNTERTOPS ARE INCLUDED IN THE EQUIPMENT PACKAGE. GC ONLY TO COORDINATE FIELD DIMENSIONS WITH SUPPLIER.
4. VERIFY ALL SHELVING AND WORK TABLES QUANTITIES WITH OWNER.
5. REFER TO SHEET Q600 FOR EQUIPMENT SCHEDULING - G.C. TO VERIFY/COORDINATE FINAL EQUIPMENT PACKAGE PRIOR TO INSTALLING UTILITIES OR CONNECTING EQUIPMENT.
6. STAINLESS STEEL CORNER GUARD/END CAPS SHALL BE PROVIDED & INSTALLED ON ALL BACK OF THE HOUSE CORNERS AND END CAPS - SEE SHEET A111 FOR LOCATIONS.
7. LOCATE REMOTE WALK-IN FREEZER/COOLER CONDENSER ON MAIN FLAT ROOF. SEE MECHANICAL DRAWINGS. G.C. COORDINATE POWER REQUIREMENTS AND PIPING W/ COOLER SUPPLIER AND INSTALLER.

ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
1	4	HAND SINK w/2 SPLASHGUARDS	34C	2	SS TABLE W/ SHELF BELOW 30"x36"
2	1	1-DOOR FREEZER	34D	1	SS TABLE W/ SHELF BELOW 30"x54"
3	4	REFRIG. PREPBOX - 29"W	34F	1	SS TABLE w/SHELF BELOW 18"x36"
3A	2	24"W SHELVES	34G	1	SS TABLE w/SHELF BELOW 18"x48"
4	3	FRYER	34H	1	SS TABLE w/SHELF BELOW 18"x60"
4F	1	3-BANK FRYER	34P	1	14" x 24" PASS-THRU SHELF
5	2	GRIDDLE	35	4	POS TERMINAL SYSTEM
5B	2	WALL-MOUNTED WIRE SHELVES - 48"W	35A	1	DROP SAFE - UNDERCOUNTER
6	2	REFRIG. CHEFBASE - 48"W	35H	2	DT HEADSET BASE STATION
7	4	TRASH CAN	36A	2	STORAGE RACK - 24x48
8A	2	WARMING STATION	36D	5	STORAGE RACK - 24x72
9A	2	WORKTOP FREEZER	36E	2	STORAGE RACK - 18x48
11	2	STEAMER	36F	9	F/C STORAGE RACK - 18x48
12	2	COOKER/WARMER	37	1	VEGGIE SINK W/ RH DRAIN
13	2	REFRIG. PREPBOX - 60"W - 5" CASTERS	38	1	3-COMPARTMENT SINK
14A	7	MONITOR	39A	1	WALL-MOUNTED WIRE SHELVES - 48"W
14B	5	BUMPBAR	39B	4	WALL-MOUNTED WIRE SHELVES - 36"W
14C	9	PRINTER	39C	2	WALL-MOUNTED WIRE SHELVES - 24"W
16	2	HOOD SYSTEM	41	1	CAN WASH
17	1	REFRIG. PREPBOX - 36"W	42	1	MODULAR BIB RACK
18	1	REFRIG. PREPBOX	43	1	CO2 TANK
19	2	MIX-IN BLENDER	44	1	BREAD RACK
20	1	COOKER/WARMER	46	2	ICE MACHINE W/ FLAKER HEAD
21	1	DIPPER WELL	46A	1	ICE BIN - 1500LB
22	2	DIPPING CABINET	47A	1	OUTSIDE WALK-IN DRY STORAGE
24	1	FROZEN CUSTARD MACHINE	47C	1	OUTSIDE WALK-IN COOLER (BUILT w/#47F)
24T	1	OPTIONAL FROZEN CUSTARD MACHINE	47F	1	OUTSIDE WALK-IN FREEZER (BUILT w/#47C)
25	1	EQUIPMENT STAND	48	1	2-DOOR COOLER
26	2	SODA MACHINE	50	1	USED OIL CONTAINER
27	2	CUP DISPENSER	51	1	CAN OPENER
28	1	ELEC. JUICE DISPENSER	52	1	EMPLOYEE CUBBIES
29	1	JUICER	54	1	TOASTER - 4 SLOT
30	4	3-GAL DRINK DISPENSER	55	1	WATER FILTRATION SYS. w/BOOSTER PUMP
32	2	WALL-MOUNTED BIB KETCHUP DISPENSER	56	1	MOVABLE RACK SYSTEM
33	1	COFFEE/TEA BREWER	57	1	CONVECTION OVEN W/TABLE
33B	1	COFFEE BREWER	59	1	HALF HEIGHT STORAGE RACK - 18x36
34	1	SS TABLE w/SHELF BELOW 24"x30"	59A	3	HALF HEIGHT STORAGE RACK - 18x48
34A	2	SS TABLE W/ SHELF BELOW 24"x36"	60	1	BISCUIT RACK
34B	1	SS TABLE w/SHELF BELOW 24"x48"	62	1	SERVICE SINK FAUCET
			63	1	UTILITY SHELF MOP RACK
			65	1	OPTIONAL ELECTRIC 12" CLAMSHELL GRILL
			65D	1	ELECTRIC 24" CLAMSHELL GRILL
			80	3	BAR STOOL
			81	5	DINING CHAIRS
			81A	12	HI-TOP CHAIRS
			82H	2	2 SEAT HI-TOP TABLE
			82HC	3	ADA TABLE - 30"x48"
			83	1	BOOTH BENCH 48" - END
			83A	2	BOOTH BENCH 60" - END
			84	2	BOOTH BENCH 48" - DOUBLE
			84A	4	BOOTH BENCH 60" - DOUBLE
			85	1	BOOTH TABLE - 30"x48"
			85A	5	BOOTH TABLE - 30"x60"
			85H	2	4 SEAT HI-TOP TABLE - 30"x48"
			86	26	OUTDOOR CHAIRS
			87	2	OUTDOOR TABLE 30"x48"
			87A	3	OUTDOOR TABLE 36" ROUND
			87AHC	1	OUTDOOR TABLE 36" ROUND ADA
			87HC	1	OUTDOOR TABLE 30"x48" - ADA
			89	2	DEDICATED HOLDING CABINET
			90	1	SEMI RECESSED FIRE EXTINGUISHER
			90A	2	FIRE EXTINGUISHER
			90B	1	FIRE EXTINGUISHER
			91	1	AIR CURTAIN
			92	2	INSTANTANEOUS WATER HEATER PACKAGE
			93	1	MANAGERS DESK/ SHELVING UNIT
			94	1	IT EQUIPMENT SHELVING UNIT
			95	1	WALL MOUNTED CONDIMENTS
			96	2	PUBLIC TRASH BIN
			97	1	TO GO RACK
			98	2	DUNNAGE RACK - 24x48
			99	2	SERVI ROBOT



**1 EQUIPMENT PLAN**  
 Q111 SCALE: 1/4" = 1'-0"

LHM Project No. 23047.00  
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**NATIONAL RESTAURANT DESIGNERS**  
 A DIVISION OF LHM ASSOCIATES  
 7208 ACC BLVD, 2ND FLOOR,  
 FALCON, NC 27617  
 Phone: 919.244.0287 Fax: 919.544.9399



PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: **EQUIPMENT PLAN**

Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CDK/MTP
Checked By	NRD
Sheet No.	<b>Q111</b>

NEW KITCHEN EQUIPMENT SCHEDULE

GENERAL																	ELECTRICAL				PLUMBING					REMARKS
ITEM	QTY.	DESCRIPTION	MANUFACTURER	SIZE/MODEL NUMBER	FURN. BY	INST. BY	CONN. BY	VOLT	PHASE	AMPS	HP	ROUGH-IN HEIGHT	CW	HW (110)	HW (140)	SUPPLY PIPING ROUGH-IN HEIGHT	DRAIN SIZE	DRAIN PIPING ROUGH-IN HT.	GAS/BTU	REMARKS						
1	4	HAND SINK w/2 SPLASHGUARDS	SERV-WARE	HS105-CWP	TENANT	GC	PC						1/2"	1/2"				1 1/2"			FAUCET INCLUDED WITH FIXTURE - SEE PLUMBING SHEETS					
2	1	1-DOOR FREEZER	HOSHIZAKI	EF1A	TENANT	GC	EC	115	1	3.2	1/3										NEMA 5-15P					
3	4	REFRIG. PREPBOX - 29"W	SERV-WARE	SP 29-08-HC	TENANT	GC	EC	115	1	7	1/5										NEMA 5-15P					
3A	2	24"W SHELVES		24" W	TENANT	GC															VERIFY MODEL W/ OWNER					
4	3	FRYER	SERV-WARE	SGF-50N	TENANT	GC	PC														3/4" NPT - 120,000 BTU/HR (EA)					
4F	1	3-BANK FRYER	FRYMASTER	31814	TENANT	GC	PC	120	1	1.0+8.0											1" NPT - 119,000 BTU/HR (3) 1" MANIFOLD GAS LINE (2) CORD & PLUGS					
5	2	GRIDDLE	ROYAL	RTG-48	TENANT	GC	PC														3/4" NPT - 120,000 BTU/HR (EA) REAR GAS CONNECTION & REGULATOR					
5B	2	WALL-MOUNTED WIRE SHELVES - 48"W	SERV-WARE	14 INCHES DEEP x 48 INCHES WIDE	TENANT	GC															SEE PLANS AND INTERIOR ELEVATIONS					
6	2	REFRIG. CHEFBASE - 48"W	TRUE	TRCB-48	TENANT	GC	EC	115	1	5.4	1/5										NEMA 5-15P					
7	4	TRASH CAN	WINCO	PTCR-22G	TENANT	GC																				
8A	2	WARMING STATION	HATCO	MPWS-36	TENANT	GC	EC	120/208	1	14.2											NEMA L14-20P					
9A	2	WORKTOP FREEZER	CONTINENTAL REFRIGERATOR	SWF36NBS	TENANT	GC	EC	115	1	5.7	1/3										NEMA 5-15P					
11	2	STEAMER	ANTUNES	DFWF 250 (9100146)	TENANT	GC	PC/EC	208	1	15.9					1/4"						REQUIRES WATER LINE & PRESSURE REGULATOR - NEMA 6-20P					
12	2	COOKER/WARMER	HATCO	BY TENANT	TENANT	GC	EC	120	1	15.0											NEMA 5-15P					
13	2	REFRIG. PREPBOX - 60"W - 5" CASTERS	TRUE	TUC 60-ADA-HC	TENANT	GC	EC	115	1	4.0	1/4										NEMA 5-15P - PROVIDE W/5" CASTERS					
14A	7	MONITOR			TENANT	VENDOR	EC	120	1	-											PROVIDED BY HOME OFFICE - VERIFY MODEL W/ OWNER					
14B	5	BUMPBAR			TENANT	VENDOR	EC	120	1	-											PROVIDED BY HOME OFFICE - VERIFY MODEL W/ OWNER					
14C	9	PRINTER			TENANT	VENDOR	EC	120	1	-											PROVIDED BY HOME OFFICE - VERIFY MODEL W/ OWNER					
16	2	HOOD SYSTEM	CAPTIVEAIRE	SEE HOOD DWGS.	TENANT	GC	MC/EC	120	1	-											HOOD W/ ANSUL SYSTEM					
17	1	REFRIG. PREPBOX - 36"W	BEVERAGE AIR	UCR34HC	TENANT	GC	EC	115	1	2.0	1/6										NEMA 5-15P					
18	1	REFRIG. PREPBOX	TRUE	TSSU 60-08-HC	TENANT	GC	EC	115	1	6.5	1/3										NEMA 5-15P					
19	2	MIX-IN BLENDER	CUSTOM	7"W X 24"H X 10"D	TENANT	GC	EC	115	1	2.1	3/4										NEMA 5-15P					
20	1	COOKER/WARMER	NEMCO	6120A-CW	TENANT	GC	EC	120	1	8.3											NEMA 5-15P					
21	1	DIPPER WELL	NEMCO	77316-10A	TENANT	GC	PC						1/4"								1" I.D.					
22	2	DIPPING CABINET	EXCELLENCE INDUSTRIES	FT-4	TENANT	GC	EC	115	1	1.4	1/8										NEMA 5-15P					
24	1	FROZEN CUSTARD MACHINE	STOELTING	CF101-38B	TENANT	GC	EC	208	1	15.0	1 1/2										HEAT OUTPUT - 6,000 BTU/HR					
24T	1	OPTIONAL FROZEN CUSTARD MACHINE	TAYLOR	C002	TENANT	GC	EC	208	1	24/22	(2) 2										HEAT OUTPUT - 6,000 BTU/HR					
25	1	EQUIPMENT STAND	SERV-WARE	ESS3024W-CWP	TENANT	GC																				
26	2	SODA MACHINE	PEPSI	CB-2323	TENANT	VENDOR	PC/EC	120	1	1.0			3/8"								PROVIDED BY VENDOR REQUIRE WATER W/SHUTOFF - PLEASE INDIRECT DRAIN CONNECTION AT NEAREST FLOOR SINK.					
27	2	CUP DISPENSER	SAN JAMAR	C8503WF	TENANT	GC																				
28	1	ELEC. JUICE DISPENSER	HAMILTON BEACH	H0J967	TENANT	GC	EC	120	1	3.0																
29	1	JUICER	NEMCO	EASY JUICER 55850	TENANT	GC																				
30	4	3-GAL DRINK DISPENSER	TABLECRAFT	1055	TENANT	GC																				
32	2	WALL-MOUNTED BIB KETCHUP DISPENSER	RED GOLD	SB0901	TENANT	GC	GC																			
33	1	COFFEE/TEA BREWER	BUNN	ITCB-DV	TENANT	GC	PC/EC	120	1	14.0			1/4"								NEMA 5-15P. 1/4" C.W. MALE FLARE. REQUIRES 20-90 PS & 1 GPM WATER FLOW.					
33B	1	COFFEE BREWER	BUNN	AXIOMDV-3 (38700.0008)	TENANT	GC	PC/EC	120	1	15			1/4"													
34	1	SS TABLE w/SHELF BELOW 24"x30"	SERV-WARE	T2430CWP-4	TENANT	GC																				
34A	2	SS TABLE W/ SHELF BELOW 24"x36"	SERV-WARE	T2436CWP-4	TENANT	GC																				
34B	1	SS TABLE w/SHELF BELOW 24"x48"	SERV-WARE	T2448CWP-4	TENANT	GC																				
34C	2	SS TABLE W/ SHELF BELOW 30"x36"	SERV-WARE	T3036CWP-4	TENANT	GC																				
34D	1	SS TABLE W/ SHELF BELOW 30"x54"	SERV-WARE	T3054CWP-4	TENANT	GC																				
34F	1	SS TABLE w/SHELF BELOW 18"x36"	SERV-WARE	T1836CWP-4	TENANT	GC																				
34G	1	SS TABLE w/SHELF BELOW 18"x48"	SERV-WARE	T1848CWP-4	TENANT	GC																				
34H	1	SS TABLE w/SHELF BELOW 18"x60"	SERV-WARE	T1860CWP-4	TENANT	GC																				
34P	1	14"x 24" PASS-THRU SHELF	STAINLESS STEEL FAB.	14"DP x 24"W x 18"H	TENANT	GC															SIZE DIMENSIONS ARE TO INSIDE OF FRAME					
35	4	POS TERMINAL SYSTEM	SAM-4S	SPT-7000	TENANT	VENDOR	EC	120	1	.37											PROVIDED BY HOME OFFICE - NEMA 5-15P					
35A	1	DROP SAFE - UNDERCOUNTER	LOOMIS	TITAN Z	TENANT	GC	EC	120	1	-											VERIFY MODEL W/ OWNER					
35H	2	DT HEADSET BASE STATION	VARIES	BY OWNER	TENANT	GC																				
36A	2	STORAGE RACK - 24x48	SERV-WARE	24"D X 48"W X 72"H	TENANT	GC															VERIFY MODEL W/ OWNER					
36D	5	STORAGE RACK - 24x72	SERV-WARE	24"D X 66"W X 72"H	TENANT	GC															VERIFY MODEL W/ OWNER					
36E	2	STORAGE RACK - 18x48	SERV-WARE	18"D X 48"W X 72"H	TENANT	GC															VERIFY MODEL W/ OWNER					
36F	9	F/C STORAGE RACK - 18x48	SERV-WARE	18"D X 48"W X 72"H	TENANT	GC															VERIFY MODEL W/ OWNER					
37	1	VEGGIE SINK W/ RH DRAIN	SERV-WARE	E1CWP1818L-24	TENANT	GC	PC						1/2"	1/2"							1.5" I.D.					
38	1	3-COMPARTMENT SINK	SERV-WARE	D3CWP18182-18	TENANT	GC	PC						1/2"	1/2"							(3)1.5"					
39A	1	WALL-MOUNTED WIRE SHELVES - 48"W	SERV-WARE	48 INCHES WIDE	TENANT	GC															SEE PLANS AND INTERIOR ELEVATIONS					
39B	4	WALL-MOUNTED WIRE SHELVES - 36"W	SERV-WARE	36 INCHES WIDE	TENANT	GC															SEE PLANS AND INTERIOR ELEVATIONS					
39C	2	WALL-MOUNTED WIRE SHELVES - 24"W	SERV-WARE	24 INCHES WIDE	TENANT	GC															SEE PLANS AND INTERIOR ELEVATIONS					
41	1	CAN WASH	FIAT	SB3636	TENANT	GC	PC														3"					
42	1	MODULAR BIB RACK	PEPSI	TAPRITE FASSCO	TENANT	VENDOR	EC/PC	120	1	1.5											PROVIDED BY VENDOR - AMPS FOR CARBONATOR					
43	1	CO2 TANK	NUCO2		TENANT	VENDOR	EC														VERIFY MODEL W/ OWNER. PROVIDED BY VENDOR					
44	1	BREAD RACK	FRANKLIN/FLOWERS	RT1 ROLL TRAY	TENANT	VENDOR															PROVIDED BY VENDOR					
46	2	ICE MACHINE W/ FLAKER HEAD	HOSHIZAKI	F-801MAJ	TENANT	GC	EC	115	1	11.8											NEMA 5-15P. 3/8" OD SUPPLY & 3/4" INDIRECT DRAIN CONNECTION. 22"W X 27 3/8"D X 26"H					
46A	1	ICE BIN - 1500LB	HOSHIZAKI	B-1500SS	TENANT	GC	PC/EC														3/4" INDIRECT DRAIN CONNECTION. 48"W X 32 1/2"D					
47A	1	OUTSIDE WALK-IN DRY STORAGE	NORLAKE	FINELINE	TENANT	GC	EC														SLOPED ROOF W/TAPERED INSULATION & FACTORY PRIMED EXTERIOR WALLS - SEE ARCH. SHEETS FOR LAYOUT, SLOPE DIRECTION & FINISHES					
47C	1	OUTSIDE WALK-IN COOLER (BUILT w/#47F)	NORLAKE	FINELINE	TENANT	GC	RC/MC/EC	208	3/1	5/2.9											SLOPED ROOF W/TAPERED INSULATION & FACTORY PRIMED EXTERIOR WALLS - SEE ARCH. SHEETS FOR LAYOUT, SLOPE DIRECTION & FINISHES.					
47F	1	OUTSIDE WALK-IN FREEZER (BUILT w/#47C)	NORLAKE	FINELINE	TENANT	GC	RC/MC/EC	208	3/1	5/2.9											SLOPED ROOF W/TAPERED INSULATION & FACTORY PRIMED EXTERIOR WALLS - SEE ARCH. SHEETS FOR LAYOUT, SLOPE DIRECTION & FINISHES					
48	1	2-DOOR COOLER	SERV-WARE	RR-2-HC	TENANT	GC	EC	115	1	9	1/2										NEMA 5-15P. 82.3"H X 54"W X 33"D					
50	1	USED OIL CONTAINER	VALLEY PROTEIN	VP EZ UCO	TENANT	VENDOR															PROVIDED BY VENDOR.					
51	1	CAN OPENER	WINCO	CO3	TENANT	GC															BAR LENGTH 12"					
52	1	EMPLOYEE CUBBIES			TENANT	GC															BUILT BY CONTRACTOR					
54	1	TOASTER - 4 SLOT	HATCO	TPT-120	TENANT	GC	EC	120	1	15.0											NEMA 5-15P					
55	1	WATER FILTRATION SYS. w/BOOSTER PUMP	ANTUNES	VZN-411V	TENANT	GC	EC	120	1	0.08			3/4"													

LHMT Project No. 23047.00

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NEW KITCHEN EQUIPMENT SCHEDULE

GENERAL			ELECTRICAL				PLUMBING						REMARKS								
ITEM	QTY.	DESCRIPTION	MANUFACTURER	SIZE/MODEL NUMBER	FURN. BY	INST. BY	CONN. BY	VOLT	PHASE	AMPS	HP	ROUGH-IN HEIGHT		CW	HW (110)	HW (140)	SUPPLY PIPING ROUGH-IN HEIGHT	DRAIN SIZE	DRAIN PIPING ROUGH-IN HT.	QAS/BTU	
56	1	MOVABLE RACK SYSTEM	BY TENANT	14'-0" LONG TRACK	TENANT	GC															
57	1	CONVECTION OVEN W/TABLE	WINCO	ECO-500	TENANT	GC	EC	120	1	13.3											CORD AND PLUG
59	1	HALF HEIGHT STORAGE RACK - 18x36	SERV-WARE	18"D X 36"W X 36"H	TENANT	GC															VERIFY MODEL W/ OWNER
59A	3	HALF HEIGHT STORAGE RACK - 18x48	SERV-WARE	18"D X 48"W X 48"H	TENANT	GC															VERIFY MODEL W/ OWNER
60	1	BISCUIT RACK			TENANT	GC															VERIFY W/ OWNER
62	1	SERVICE SINK FAUCET	T&S BRASS	B-0655-BSTR	TENANT	GC	PC						1/2"		1/2"						SEE PLUMBING SHEETS
63	1	UTILITY SHELF MOP RACK	ADVANCE TABCO	K-245-X	TENANT	GC															
65	1	OPTIONAL ELECTRIC 12" CLAMSHELL GRILL	GARLAND	XPE12	TENANT	GC	EC	208	3	26.2											NEMA 15-50 (2)
65D	1	ELECTRIC 24" CLAMSHELL GRILL	GARLAND	XPE24	TENANT	GC	EC	208	3	50.8											NEMA 15-50 (2)
80	3	BAR STOOL			TENANT	GC															
81	5	DINING CHAIRS			TENANT	GC															
81A	12	HI-TOP CHAIRS			TENANT	GC															
82H	2	2 SEAT HI-TOP TABLE			TENANT	GC															
82HC	3	ADA TABLE - 30"x48"			TENANT	GC															
83	1	BOOTH BENCH 48" - END			TENANT	GC															
83A	2	BOOTH BENCH 60" - END			TENANT	GC															
84	2	BOOTH BENCH 48" - DOUBLE			TENANT	GC															
84A	4	BOOTH BENCH 60" - DOUBLE			TENANT	GC															
85	1	BOOTH TABLE - 30"x48"			TENANT	GC															
85A	5	BOOTH TABLE - 30"x60"			TENANT	GC															
85H	2	4 SEAT HI-TOP TABLE - 30"x48"			TENANT	GC															
86	26	OUTDOOR CHAIRS			TENANT	GC															
87	2	OUTDOOR TABLE 30"x48"			TENANT	GC															
87A	3	OUTDOOR TABLE 36" ROUND			TENANT	GC															
87AHC	1	OUTDOOR TABLE 36" ROUND ADA			TENANT	GC															
87HC	1	OUTDOOR TABLE 30"x48" - ADA			TENANT	GC															
89	2	DEDICATED HOLDING CABINET	MERCO	MHG42	TENANT	GC	EC	120	1	13.3											NEMA 5-15P
90	1	SEMI RECESSED FIRE EXTINGUISHER		ABC CLASS	TENANT	GC															
90A	2	FIRE EXTINGUISHER		ABC CLASS	TENANT	GC															
90B	1	FIRE EXTINGUISHER		K CLASS	TENANT	GC															
91	1	AIR CURTAIN	SEE MECHANICAL SHTS		TENANT	GC	MC/EC	120	1	5.1											SEE MECHANICAL
92	2	INSTANTANEOUS WATER HEATER PACKAGE	NORITZ	NCC199CDV	TENANT	GC	PC/EC	120	1	59W			3/4"		3/4"				3/4" NPT - 199,000 BTU/HR (EA)		SEE PLUMBING SHEETS
93	1	MANAGERS DESK/ SHELVING UNIT	SERV-WARE	24"D X 48"W X 72"H	TENANT	GC															PROVIDE SOLID S.S. TOP @ 34" AFF WITH SHELVES ABOVE - VERIFY MODEL W/ OWNER
94	1	IT EQUIPMENT SHELVING UNIT	SERV-WARE	24"D X 48"W X 72"H	TENANT	GC															PROVIDE POWER FOR POS EQUIPMENT- VERIFY MODEL W/ OWNER
95	1	WALL MOUNTED CONDIMENTS	BY TENANT	BY TENANT	TENANT	GC															
96	2	PUBLIC TRASH BIN	BY TENANT		TENANT	GC															
97	1	TO GO RACK	BY TENANT	12"x48"	TENANT	GC															
98	2	DUNNAGE RACK - 24x48	SERV-WARE	24"D X 48"W X 12"H	TENANT	GC															VERIFY MODEL W/ OWNER
99	2	SERVI ROBOT	BEAR ROBOTICS	SERVI MODEL	TENANT	GC		110	1	3.5											PROVIDE WALL OUTLET FOR RE-CHARGING

LHMT Project No. 23047.00  
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**NATIONAL RESTAURANT DESIGNERS**  
 A DIVISION OF LHMT ASSOCIATES  
 7208 ACC BLVD., 2ND FLOOR,  
 FARMINGTON, NC 27617  
 Phone: 919.544.0087 Fax: 919.544.9099

  
 GLEN LEHMANN  
 Reg. No. 8374  
 REGISTERED ARCHITECT  
 STATE OF LOUISIANA  
 7/10/23

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: EQUIPMENT SCHEDULE

Revisions  
 THRU ADDENDUM "D"  
 11/21/2022

PROJECT DATE  
 06/29/2023  
 Drawn By  
 MTP/CDK  
 Checked By  
 NRD  
 Sheet No.  
**Q601**

### GAS DEMAND

DEMAND (MBH)	IND. DEMAND
#4 FRYER	120.00
#4 FRYER	120.00
#4 FRYER	120.00
#4 FRYER	357.00
#5 GRIDDLE	120.00
#5 GRIDDLE	120.00
<b>SUBTOTAL KITCHEN</b>	<b>957.00</b>
RTU-1	125.00
RTU-2	125.00
RTU-3	180.00
SF-1	167.07
<b>SUBTOTAL HEATING</b>	<b>597.07</b>
NCRITZ NCC199-CDV	199.00
NCRITZ NCC199-CDV	199.00
<b>SUBTOTAL WTR. HTR.</b>	<b>398.00</b>
<b>TOTAL DEMAND</b>	<b>1952.07</b>
<b>MOST REMOTE FIXTURE DIST. (FT.)</b>	<b>125</b>
<b>BUILDING GAS MAIN SIZE</b>	<b>1-1/4"</b>

NOTES:

- ALL VALVES SHALL BE SAME SIZE AS PIPING SERVED (MIN.).
- 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 UTILITY 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.
- SEE SHEET P112 AND P113 FOR GAS PIPING PLAN.
- PC SHALL INSTALL FLEXIBLE GAS HOSE WITH QUICK DISCONNECTS (PROVIDED BY PEC) BETWEEN GAS PIPING AND APPLIANCES. FLEXIBLE HOSE SHALL BE SAME SIZE AS BRANCH PIPE.
- CONTRACTOR SHALL RUN FULL DIAMETER PIPE FROM GAS METER. ANY REDUCTION IN SIZE WILL NOT BE ACCEPTABLE.
- COORDINATE WITH LOCAL UTILITY TO ENSURE 2.0 PSI IS AVAILABLE AT THE START OF ANY WORK. IF NOT, THEN CONSULT ENGINEER FOR PROPER SIZING FOR AVAILABLE PRESSURE.

### WATER HEATING

Job Type	Food Service
Hot Water Temp (F)	140
Ground Water Temp (F)	50
Temperature Rise (F)	90
Future Delivery Temp (F)	140
Gas Type	NG
Indoor or Outdoor	TBO
Elevation (ft)	Less Than 2000

FIXTURE TYPE	QUANTITY	FIXTURE UNITS	TOTAL
Kitchen Sink		3.00	0.00
Lav/ Hand Sinks	6	1.00	6.00
Bar Sink		2.50	0.00
Dipper Well		1.00	0.00
Well Steam Table		1.00	0.00
3-Comp Sink		2.50	0.00
2-Comp Sink		3.50	0.00
3-Comp Sink	1	5.50	5.50
Prep/Tables Sink	1	2.00	2.00
Prep Sink		2.50	0.00
Glass Washer		2.00	0.00
Dishwasher		4.20	0.00
Pre-Rinse		2.50	0.00
Mop Sink	1	1.50	1.50
Hose Reel	1	2.50	2.50
<b>TOTAL FIXTURE UNITS</b>		<b>17.50</b>	<b>6.0</b>

### WATER SUPPLY

ITEM	#	IND. F.U.	TOT. F.U.
WATER CLOSET FLUSH VALVE	2	10.00	20.00
LAV	2	2.00	4.00
HAND SINK	4	2.00	8.00
3-COMP SINK	1	4.00	4.00
PREP SINK	1	3.00	3.00
CAN WASH	1	0.50	1.00
STEAMER	2	0.50	1.00
ICE MACHINE	2	0.50	1.00
TEA/COFFEE BREWER	2	0.50	1.00
DRINK SYSTEM	2	0.50	1.00
INTERIOR HOSE BIBB	5	2.50	12.50
EXTERIOR HOSE BIBB	2	2.50	5.00
DIPPERWELL	1	0.50	0.50
<b>TOTAL C.W. F.U.</b>		<b>65.0</b>	<b>65.0</b>
<b>TOTAL DEMAND GPM</b>		<b>33.50</b>	<b>33.50</b>
<b>SIZE</b>		<b>1-1/2"</b>	<b>1-1/2"</b>
<b>C.W. MAIN SIZE (VEL. 6-8 FPM)</b>		<b>1-1/2"</b>	<b>MOSTLY FLUSH TANK.</b>

### OPTION : NORITZ TANKLESS WATER HEATER

COMMERCIAL MODEL	UEF / TE	QUANTITY	MAX INPUT (BTU/NR)	FLOWRATE EA. (GPM)	TOTAL FLOWRATE (GPM)
NCC199CDV	95% / 98%	2	399,800	4.4	8.7

### OPTIONAL ACCESSORIES

Part Description	Part #
Condensate Neutralizer (up to 3,000,000 Btu/hr)	NT-20A
Outdoor Vent Cap (ea Heater)	VC-6
Multi-Unit Quick Connect Cord (up to 2 Heaters)	QC-2
Multi-Unit System Controller (up to 6 Heaters)	SC-401-6M
Multi-Unit System Controller (up to 12 Heaters)	SCU-401-12M
Service Iso-Valve w/ 150 PSI Pressure Relief (ea Heater)	ICWV-200-3 (1H or SW)

### WATER HAMMER ARRESTOR SCHEDULE

I.P.S.	F.U. RATING	SHOULDER	UNIT SIZE	REMARKS
3/4"	1 - 11	652-A	A	P.D.I. CERTIFIED
3/4"	12 - 32	653-B	B	P.D.I. CERTIFIED
1"	33 - 60	654-C	C	P.D.I. CERTIFIED
1"	61 - 113	655-D	D	P.D.I. CERTIFIED
1"	114 - 154	656-E	E	P.D.I. CERTIFIED
1"	155 - 330	657-F	F	P.D.I. CERTIFIED

NOTE: ALL WATER HAMMER ARRESTORS PROVIDED MUST MEET ASSE-1010 REQUIREMENTS.

### GREASE INTERCEPTOR SIZING

#### Louisiana State Plumbing Code

#### Grease Trap Sizing Chart

Grease Trap Minimum Capacity WITHOUT Garbage Grinder					
Retail Food Usable Square Footage (ft²)	Institutions Estimated People or Meals Served¹	Grease Trap Size (gallons)	Retail Food Usable Square Footage (ft²)	Institutions Estimated People or Meals Served¹	Grease Trap Size (gallons)
5,201 - 5,400	261 - 270	675	14,801 - 15,000	741 - 750	1,875
5,401 - 5,600	271 - 280	700	15,001 - 15,200	751 - 760	1,900
5,601 - 5,800	281 - 290	725	15,201 - 15,400	761 - 770	1,925
5,801 - 6,000	291 - 300	750	15,401 - 15,600	771 - 780	1,950
6,001 - 6,200	301 - 310	775	15,601 - 15,800	781 - 790	1,975
6,201 - 6,400	311 - 320	800	15,801 - 16,000	791 - 800	2,000
6,401 - 6,600	321 - 330	825	16,001 - 16,200	801 - 810	2,025
6,601 - 6,800	331 - 340	850	16,201 - 16,400	811 - 820	2,050
6,801 - 7,000	341 - 350	875	16,401 - 16,600	821 - 830	2,075
7,001 - 7,200	351 - 360	900	16,601 - 16,800	831 - 840	2,100
7,201 - 7,400	361 - 370	925	16,801 - 17,000	841 - 850	2,125
7,401 - 7,600	371 - 380	950	17,001 - 17,200	851 - 860	2,150
7,601 - 7,800	381 - 390	975	17,201 - 17,400	861 - 870	2,175
7,801 - 8,000	391 - 400	1,000	17,401 - 17,600	871 - 880	2,200
8,001 - 8,200	401 - 410	1,025	17,601 - 17,800	881 - 890	2,225
8,201 - 8,400	411 - 420	1,050	17,801 - 18,000	891 - 900	2,250
8,401 - 8,600	421 - 430	1,075	18,001 - 18,200	901 - 910	2,275
8,601 - 8,800	431 - 440	1,100	18,201 - 18,400	911 - 920	2,300
8,801 - 9,000	441 - 450	1,125	18,401 - 18,600	921 - 930	2,325
9,001 - 9,200	451 - 460	1,150	18,601 - 18,800	931 - 940	2,350
9,201 - 9,400	461 - 470	1,175	18,801 - 19,000	941 - 950	2,375
9,401 - 9,600	471 - 480	1,200	19,001 - 19,200	951 - 960	2,400
9,601 - 9,800	481 - 490	1,225	19,201 - 19,400	961 - 970	2,425
9,801 - 10,000	491 - 500	1,250	19,401 - 19,600	971 - 980	2,450
10,001 - 10,200	501 - 510	1,275	19,601 - 19,800	981 - 990	2,475
10,201 - 10,400	511 - 520	1,300	19,801 - 20,000	991 - 1,000	2,500

¹Retail establishments expected to serve more meals than estimated by usable sq ft shall install the larger size grease trap.  
²Estimated number of people or meals served is the number of persons or meals served during the largest meal period.

### BACKFLOW PREVENTION SCHEDULE

EQUIPMENT	MEDIUM HAZARD APPLICATIONS (SEE NOTE 1)	HIGH HAZARD APPLICATIONS (SEE NOTE 1 & 2)
ICE MACHINE	WATTS MODEL: SD-2	WATTS MODEL: SD-2
TEA/COFFEE MAKER	WATTS MODEL: SD-3	WATTS MODEL: SD-3
HOSE BIBB	INTEGRAL VACUUM BREAKER	INTEGRAL VACUUM BREAKER
STEAMER	WATTS MODEL: SD-2	WATTS MODEL: SD-2
DRINK SYSTEM (CARBONATOR)	WATTS MODEL: SD-3 (NOTE 3)	WATTS MODEL: SD-3 (NOTE 3)
DIPPERWELL	WATTS MODEL: SD3-MF	WATTS MODEL: SD3-MF
CHEMICAL DISPENSER	WATTS MODEL: LF009	WATTS MODEL: LF009
CAN WASH (CW-1)	WATTS MODEL: LF9D	WATTS MODEL: LF9D
COLD WATER MAIN	SEE CIVIL PLANS	SEE CIVIL PLANS

NOTES:

- P.C. SHALL VERIFY BACKFLOW REQUIREMENT WITH LOCAL CODE OFFICIALS. USE MEDIUM HAZARD BACKFLOW DEVICES UNLESS LOCAL CODE OFFICIALS CLASSIFY AS HIGH HAZARD.
- P.C. SHALL INSTALL PER MANUFACTURERS RECOMMENDATIONS, AND PIPE VENT TO DRAIN WHERE NEEDED INDIRECTLY WITH 2" (MIN.) AIR GAP.
- P.C. SHALL USE PLASTIC TUBING DOWNSTREAM OF THE BACKFLOW PREVENTER FOR THE CARBONATOR.

### WATER PIPING SIZING CRITERIA

- ALL PIPE SIZES SHOWN ON RISER ARE BASED ON COPPER PIPE. PEX-A IS AN APPROVED SUBSTITUTION MATERIAL (SEE SPECIFICATION SHEET). HOWEVER, IF PEX-A IS INSTALLED, ALL PIPE SIZES (EXCEPT SINGLE FIXTURE BRANCHES) SHALL BE INCREASED (1) PIPE SIZE FROM SIZES SHOWN ON RISER.
- COPPER PIPE SIZING BASED ON DESIGN MAXIMUMS OF 8FT/SEC VELOCITY AND 5PSI/100FT TO 8PSI/100FT OF PRESSURE LOSS.
- PEX-A PIPE SIZING BASED ON MANUFACTURER DESIGN CRITERIA AND DESIGN MAXIMUMS OF 8FT/SEC VELOCITY AND 5PSI/100FT TO 8PSI/100FT OF PRESSURE LOSS.
- IF PEX-A IS USED, DOMESTIC HOT WATER RETURN PIPING SHALL BE MINIMUM OF 1" DIAMETER TO MEET MANUFACTURER RECOMMENDED VELOCITY OF 2FT/SECOND @ DESIGNED RECIRC PUMP GPM RATE.
- ALL PIPING 2" AND LARGER SHALL BE COPPER ONLY.

### WATER SUPPLY

ITEM	#	IND. F.U.	TOT. F.U.
WATER CLOSET FLUSH VALVE	2	10.00	20.00
LAV	2	2.00	4.00
HAND SINK	4	2.00	8.00
3-COMP SINK	1	4.00	4.00
PREP SINK	1	3.00	3.00
CAN WASH	1	0.50	1.00
STEAMER	2	0.50	1.00
ICE MACHINE	2	0.50	1.00
TEA/COFFEE BREWER	2	0.50	1.00
DRINK SYSTEM	2	0.50	1.00
INTERIOR HOSE BIBB	5	2.50	12.50
EXTERIOR HOSE BIBB	2	2.50	5.00
DIPPERWELL	1	0.50	0.50
<b>TOTAL C.W. F.U.</b>		<b>65.0</b>	<b>65.0</b>
<b>TOTAL DEMAND GPM</b>		<b>33.50</b>	<b>33.50</b>
<b>SIZE</b>		<b>1-1/2"</b>	<b>1-1/2"</b>
<b>C.W. MAIN SIZE (VEL. 6-8 FPM)</b>		<b>1-1/2"</b>	<b>MOSTLY FLUSH TANK.</b>

NUMBER OF SEATS: <b>84</b>
NUMBER OF MEALS SERVED: <b>350 MEALS SERVED IN 3 HOUR PEAK PERIOD</b>
SQUARE FOOTAGE: <b>2,501 SF</b>
GREASE INTERCEPTOR SIZING BASED ON 2018 IPC WITH LOCAL AMENDMENTS AND LOUISIANA STATE PLUMBING CODE. GREASE INTERCEPTOR SIZING CHART. REFER TO CHART ABOVE FOR MINIMUM SIZE REQUIRED.

### LEGEND

LINE TYPE

=====	WASTE PIPING
-----	CAST IRON WASTE PIPING
-----	GREASE WASTE PIPING
-----	VENT PIPING
-----	COLD WATER PIPING
-----	HOT WATER PIPING (140°)
-----	FILTERED WATER PIPING
-----	CONDENSATE PIPING
-----	TRAP PRIMER PIPING
-----	GAS PIPING

SYMBOLS

○	EXTERIOR CLEAN-OUT
○	FLOOR CLEAN-OUT
○	WALL CLEANOUT
○	PLUG CLEAN OUT
○	HUB DRAIN
○	FLOOR DRAIN
○	FLOOR SINK
○	TRENCH DRAIN
○	VENT THRU ROOF
○	HOSE BIBB
○	GATE VALVE
○	CHECK VALVE
○	GAS COCK AND UNION
○	GAS REGULATOR
○	GAS METER
○	WATER HEATER CONCENTRIC FLUE

ABBREVIATIONS

BFP	BACKFLOW PREVENTER
CP	CONDENSATE PUMP
CO	CLEANOUT
DFU	DRAINAGE FIXTURE UNIT
EF	EXHAUST FAN
EX	EXISTING
FD	FLOOR DRAIN
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
HS	HAND SINK
ID	INSIDE DIA.
LAV	LAVATORY
MS	MOP SINK
MV	MIXING VALVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIA.
O/F	OWNER/FRANCHISEE
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
RTU	ROOF TOP EQUIPMENT (HVAC)
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
WC	WATER CLOSET
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR

PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401

PLUMBING NOTES, LEGEND, SCHEDULES AND CALCULATIONS

LHMT Project No. 23047.00

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STATE OF LOUISIANA  
 NELSON RAY HORTON JR.  
 REG. NO. 2284  
 REGISTERED PROFESSIONAL ENGINEER  
 IN  
 MECHANICAL ENGINEERING  
 717123

PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401  
DRAWING:

PROJECT DATE  
06/29/2023

Drawn By  
JCL

Checked By  
SDS

Sheet No.  
**P001**

THRU ADDENDUM "D"  
11/21/2022

REVISIONS

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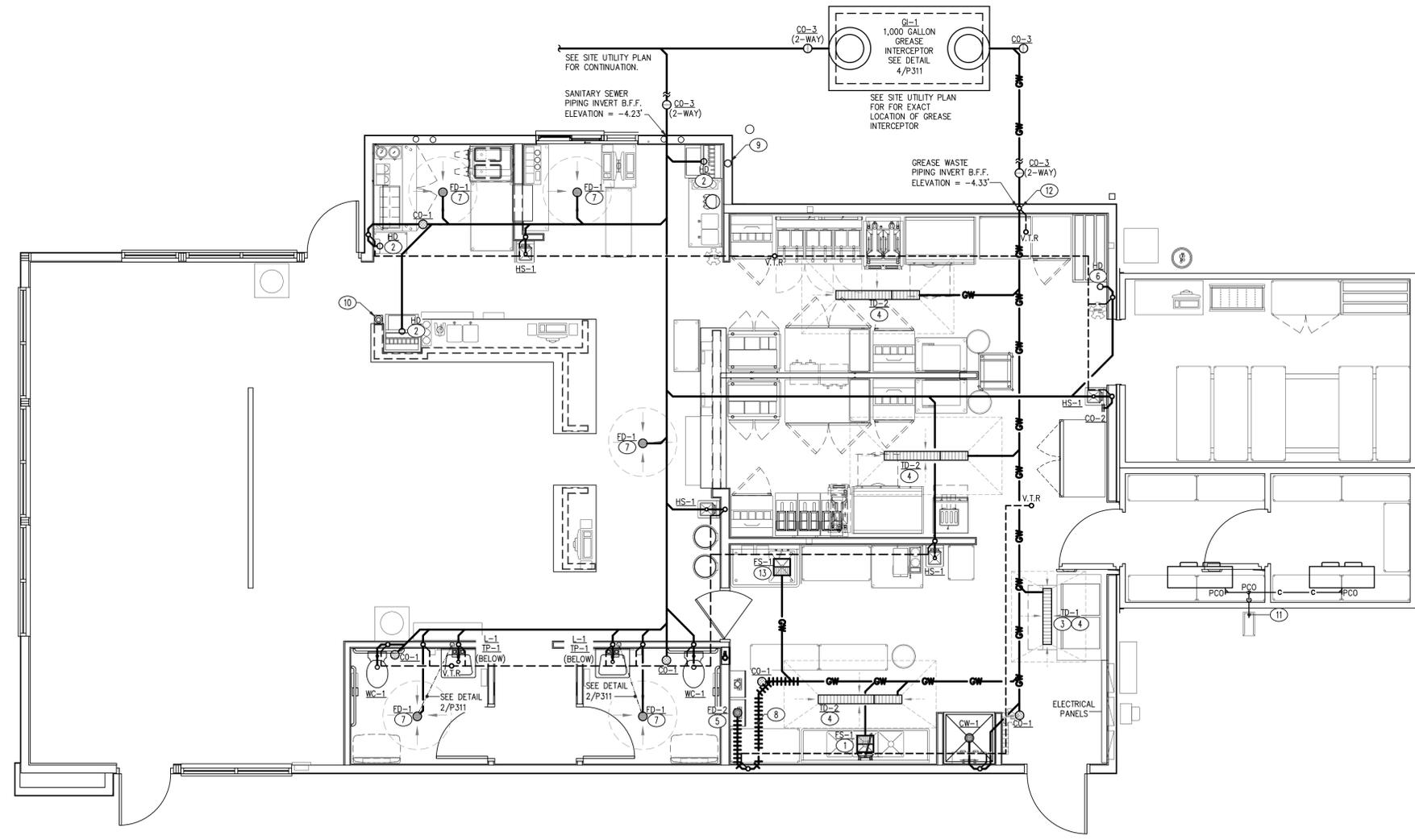
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 Plotted Date: Jun 29, 2023 - 2:57pm



**1 PLUMBING WASTE/VENT PLAN**  
 P111 SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

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

**CONSTRUCTION NOTES:**

- ROUTE 2" SINK COMPARTMENT DRAIN TO FLOOR SINK. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPE. SEE DETAIL 5/P311.
- ROUTE EQUIPMENT DRAIN(S) DOWN TO HUB DRAIN. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPE.
- ROUTE ICE MACHINE DRAIN PIPING INDIRECTLY AT 1/8" PER/FT SLOPE TO TRENCH DRAIN. TERMINATE WITH AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPING.
- TRENCH DRAIN. INSTALL 1/4" BELOW FINISHED FLOOR AND SLOPE SLAB TOWARD DRAIN AT 1/8" PER FOOT. DRAIN SHALL BE SET LEVEL WITH CONCRETE, 1/4" BELOW FINISHED FLOOR. ADJUST AS REQUIRED. SEE DETAIL 8/P311.
- ROUTE WATER HEATER TAP RELIEF VALVE INDIRECTLY TO FLOOR DRAIN AND TERMINATE WITH AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPE.
- ROUTE WATER FILTER FLUSH SYSTEM DRAIN PIPING DOWN INSIDE WALL AND DISCHARGE INTO HUB DRAIN. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN.
- NEW FLOOR DRAIN SHALL BE INSTALLED 3/8" BELOW FINISH FLOOR AND SLOPE SLAB TOWARD DRAIN AT 1/8" PER FOOT. DRAIN SHALL BE SET LEVEL WITH CONCRETE. SEE DETAIL 9/P311.
- PC SHALL PROVIDE CAST IRON P-TRAP AND 10' MINIMUM OF CAST IRON WASTE PIPING LEADER.
- ROUTE SYRUP LINES OVERHEAD, DOWN INSIDE WALL IN A PVC CHASE AND PENETRATE BELOW EQUIPMENT AND ROUTE TO SODA SYSTEM. COORDINATE WITH BEVERAGE VENDOR.
- ROUTE SYRUP LINES OVERHEAD, DOWN INSIDE S.S. CHASE AND PENETRATE BELOW EQUIPMENT AND ROUTE TO SODA SYSTEM. COORDINATE WITH BEVERAGE VENDOR.
- 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 12" ABOVE FINISHED GRADE OVER SPLASH BLOCK. TURN DOWN TO 6" (MIN.) ABOVE GRADE. PROVIDE INSECT/VERMIN SCREEN AT OPEN END OF PIPE.
- PC SHALL ATTEMPT TO LOCATE VENT WITHIN 15' OF GREASE TRAP.
- ROUTE 1 1/2" SINK COMPARTMENT DRAIN TO FLOOR SINK. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN PIPE.

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STATE OF LOUISIANA  
 REGISTERED PROFESSIONAL ENGINEER  
 NELSON RAY HORTON JR.  
 REG. NO. 2984  
 MECHANICAL ENGINEERING  
 IN  
 7/17/23

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401

DRAWING: **PLUMBING WASTE/VENT PLAN**

Revisions	
THRU ADDENDUM "D"	11/21/2022

PROJECT DATE  
06/29/2023

Drawn By  
JCL

Checked By  
SDS

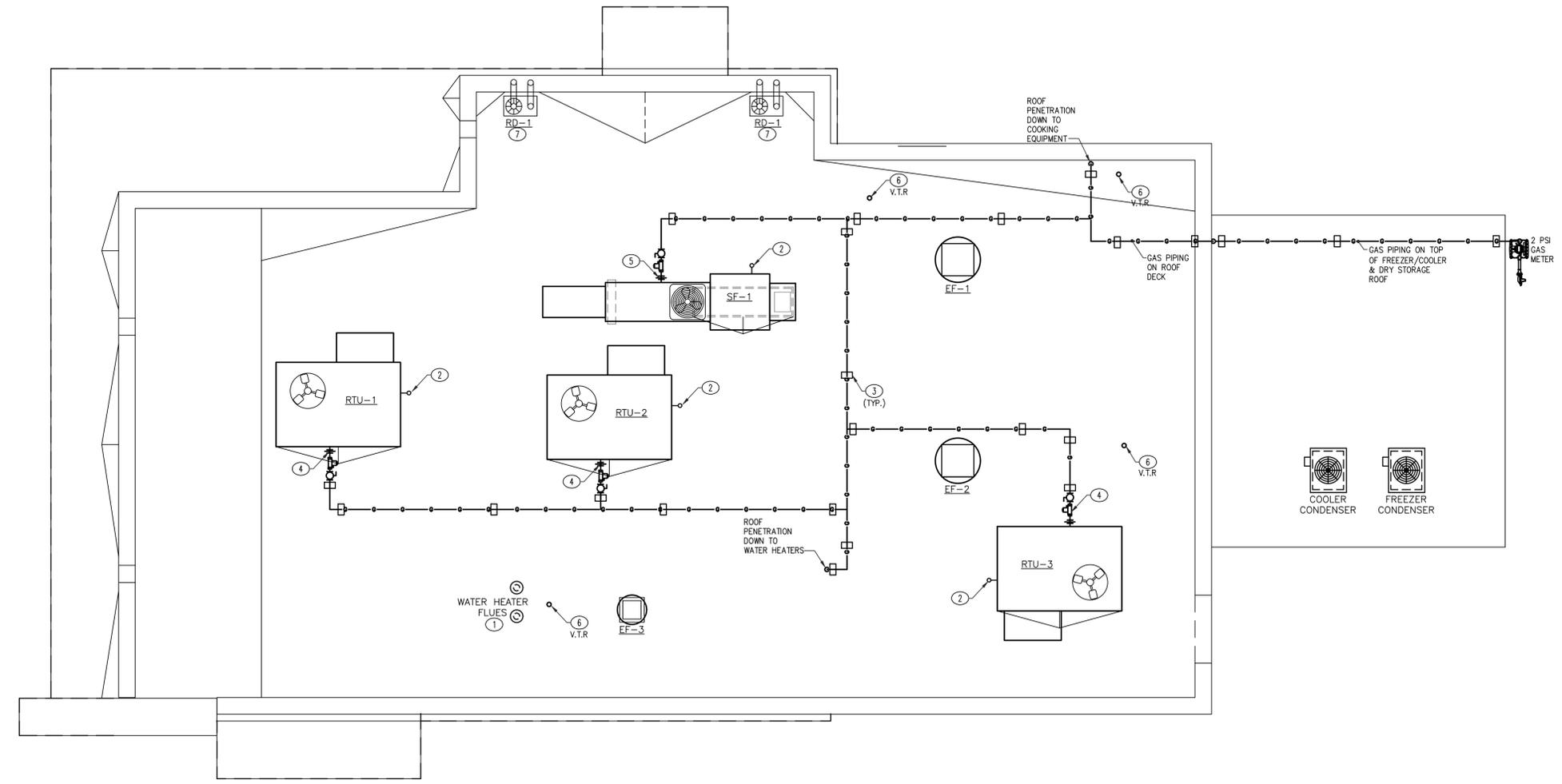
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**P111**

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

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.



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 Plotted Date: Jun 29, 2023 - 2:57pm



**1 PLUMBING ROOF PLAN**  
 P113 SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

1. SEE SHEET P001 FOR ALL GENERAL NOTES.
2. TYPICAL VENT THRU-ROOF DETAIL 11/P-311.
3. ALL PENETRATIONS THRU ROOF SHALL BE BY GENERAL CONTRACTOR AS PER ROOF MANUFACTURER'S STANDARD.
4. DO NOT SCALE DRAWING. ALL PLUMBING VENT OUTLETS THROUGH ROOF SHALL TERMINATE AT PARAPET HEIGHT (MIN.).
5. ALL PLUMBING ON ROOF MUST BE PERMANENTLY SECURED AND ABLE TO WITHSTAND 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 SF AND ROUTE TO SPLASH BLOCK ON ROOF. SEE DETAIL 6/P311.
- ③ PIPE SUPPORTS SPACED AT EVERY 10' AND AT ALL CHANGES IN DIRECTION (TYP.). SEE DETAIL 3/P311
- ④ PC SHALL PROVIDE/INSTALL UNION, GAS COCK, DRIP LEG AND REGULATOR AT EACH GAS CONNECTION. REGULATOR VENT SHALL FACE DOWN TO PREVENT ANY RAIN FROM ENTERING THE VALVE.
- ⑤ HEATED MAKE-UP AIR GAS CONNECTION, SEE THIS SHEET AND HOOD SHEETS.
- ⑥ VENT THROUGH ROOF, SEE DETAIL 11/P311.
- ⑦ ROUTE 4" SCH 40 PVC HORIZONTAL AND VERTICAL ROOF DRAIN PIPING DOWN INSIDE WALL AND TERMINATE PER DETAIL ON SHEET A501. SEE DETAIL 6/A161 FOR ROOF DRAIN FIXTURE (RD-1) INSTALLATION.

**ROOF DRAIN SIZING**

Physical Data	
Roof Area (ft <sup>2</sup> ):	2058.08
Front Parapet Area (ft <sup>2</sup> ):	199.55
Rear Parapet Area (ft <sup>2</sup> ):	207.55
Left Parapet Area (ft <sup>2</sup> ):	364.36
Right Parapet Area (ft <sup>2</sup> ):	320.80
<b>Total Developed Area (ft<sup>2</sup>):</b>	<b>2604.21</b>

Table Lookup Data	Primary Conductors	Secondary Conductors
Rainfall Rate (in/hr):	4.80	6.00
<b>VERTICAL CONDUCTORS</b>		
Number of Vertical Conductors:	2	2
Vertical conductor Size (in):	4	4
Required Area per Vertical Conductor (ft <sup>2</sup> ):	1302	1302
Maximum Area per Conductor (ft <sup>2</sup> ):	3833	3070
Result:	OK	OK
<b>HORIZONTAL CONDUCTORS</b>		
Large Rainfall Correction Factor:	4.80	6.00
Horizontal conductor Size (in):	4	4
Conductor Slope (%):	1	4
Required Area per Horizontal Conductor (ft <sup>2</sup> ):	1302	1302
Maximum Area per Conductor (ft <sup>2</sup> ):	8640	15000
Result:	OK	OK

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PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: PLUMBING ROOF PLAN

**Revisions**

THRU ADDENDUM	"D"
11/21/2022	

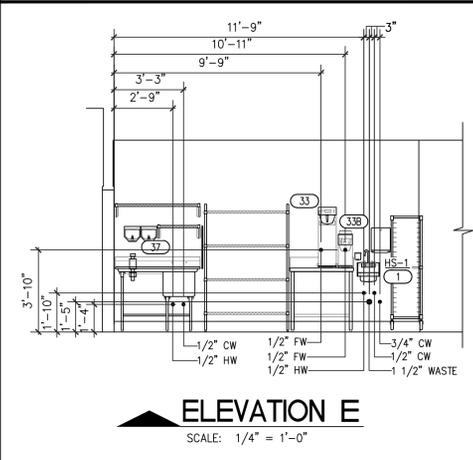
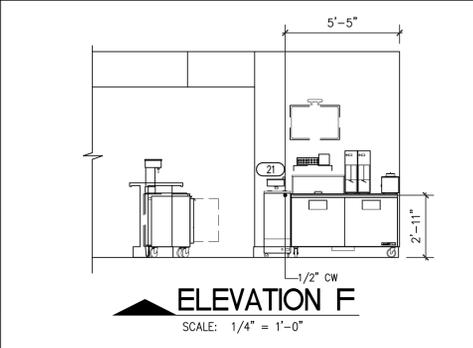
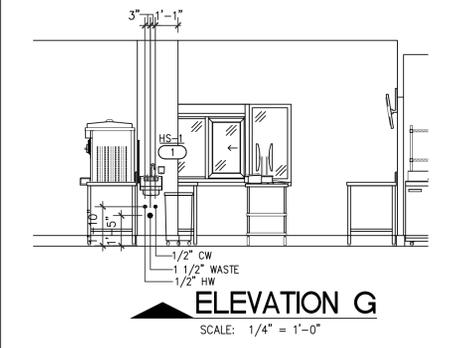
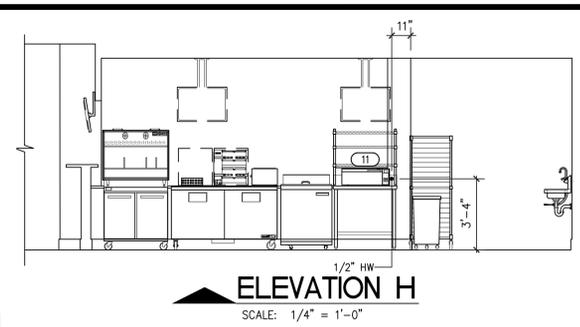
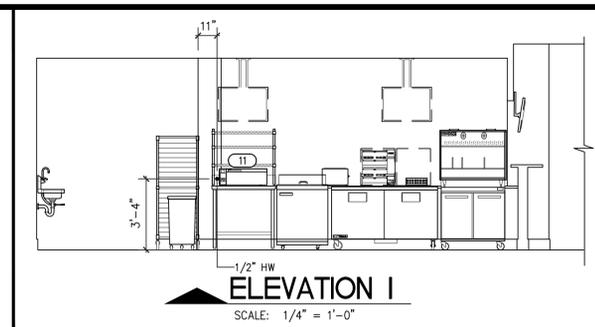
PROJECT DATE  
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 Drawn By  
 JCL  
 Checked By  
 SDS  
 Sheet No.  
**P113**

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

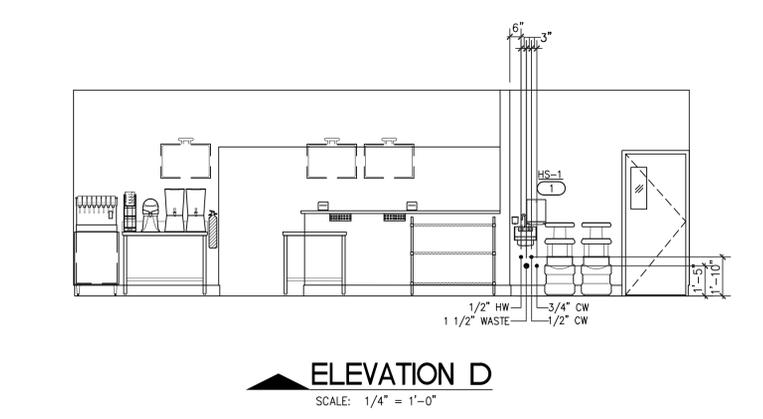
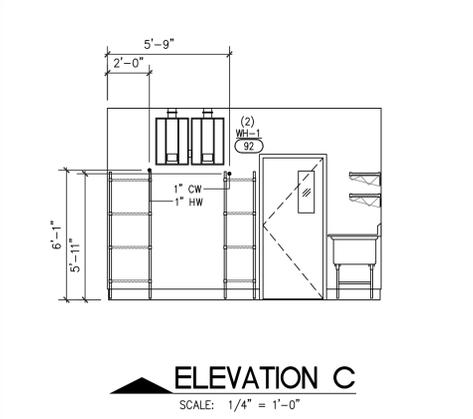
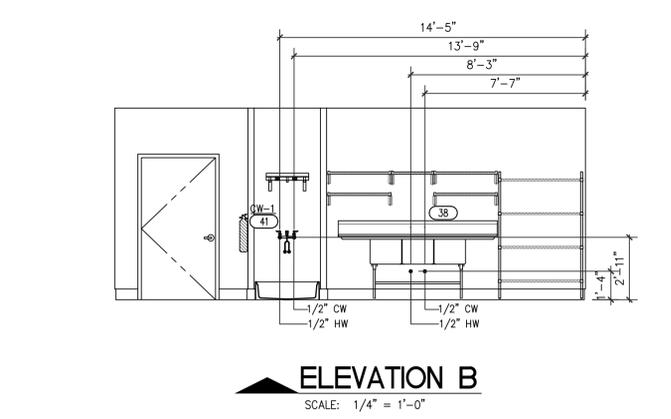
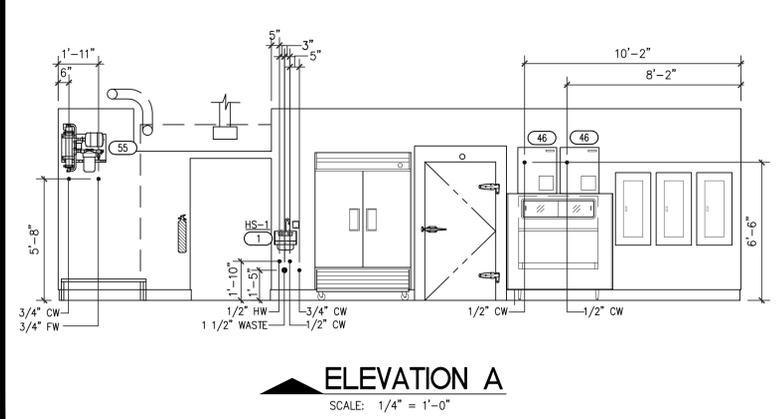
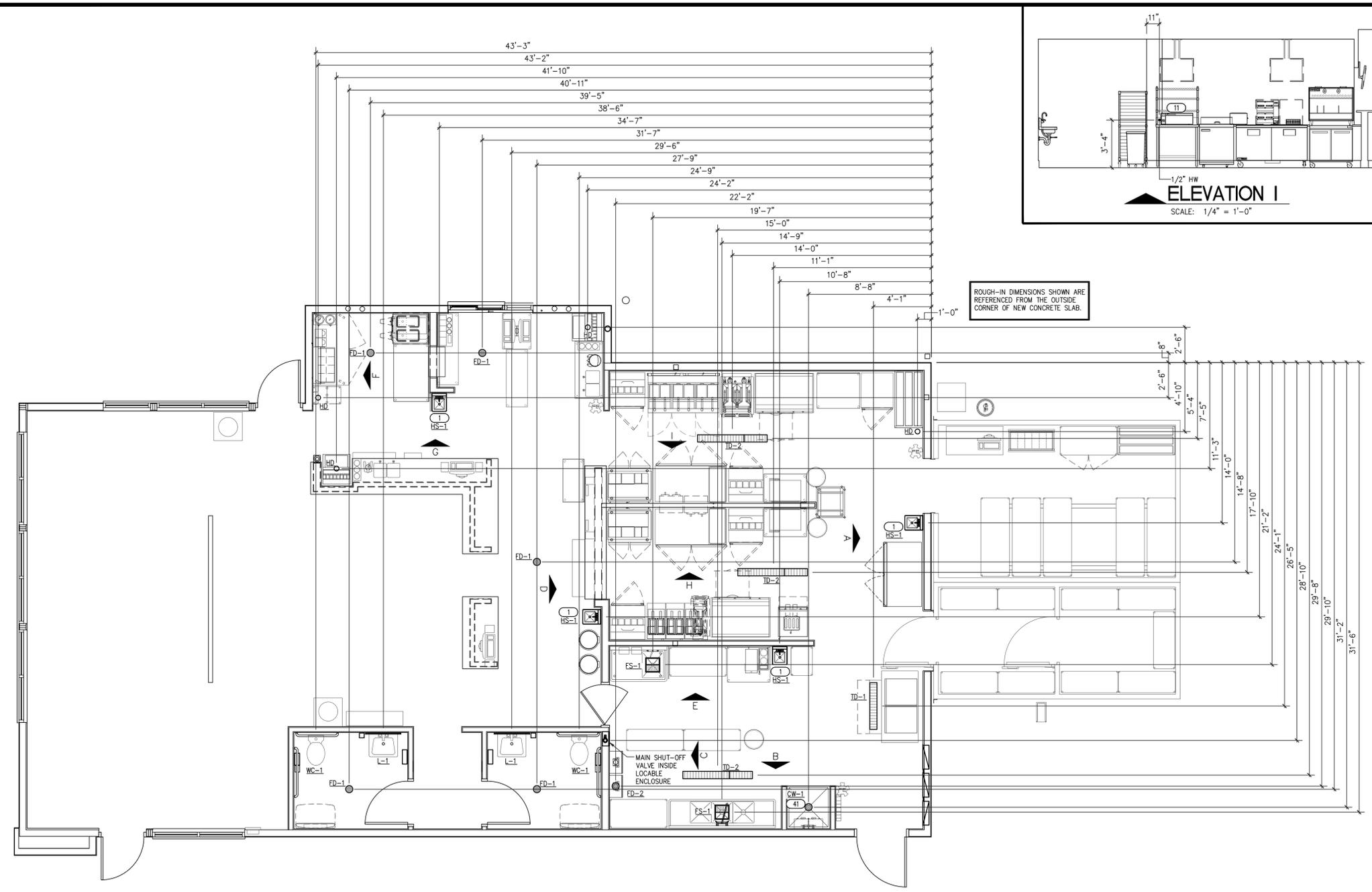


PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: PLUMBING ROUGH-IN PLAN AND INTERIOR ELEVATIONS

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Sheet No.	<b>P114</b>



ROUGH-IN DIMENSIONS SHOWN ARE REFERENCED FROM THE OUTSIDE CORNER OF NEW CONCRETE SLAB.



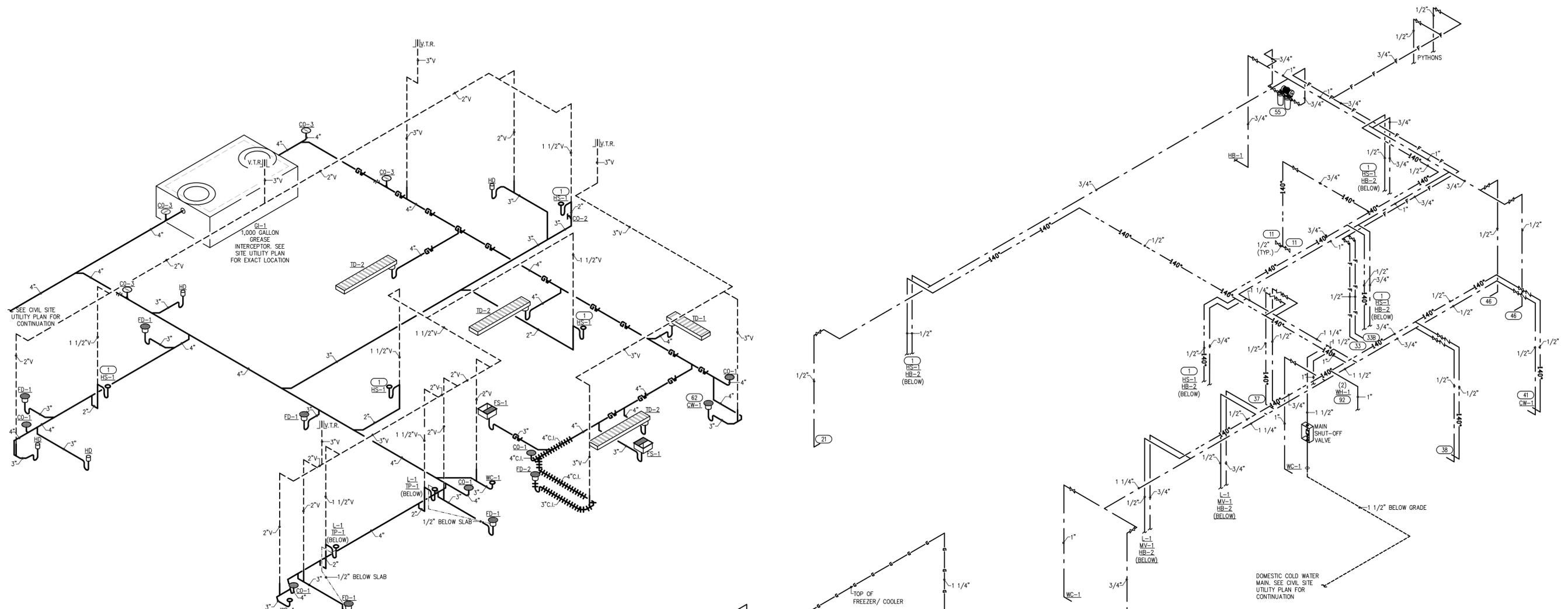
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 Plotted Date: Jun 29, 2023 - 2:57pm



PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401

DRAWING: **PLUMBING RISERS**

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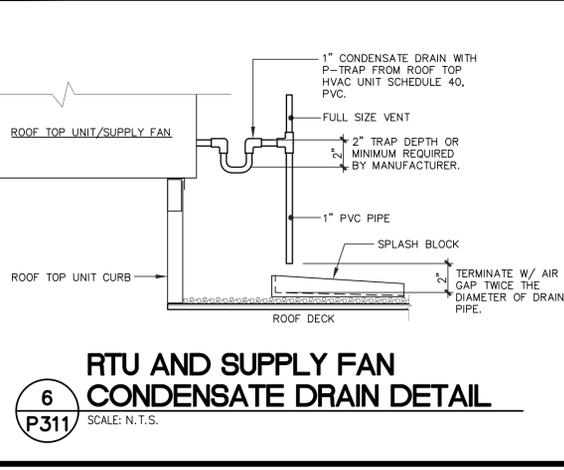
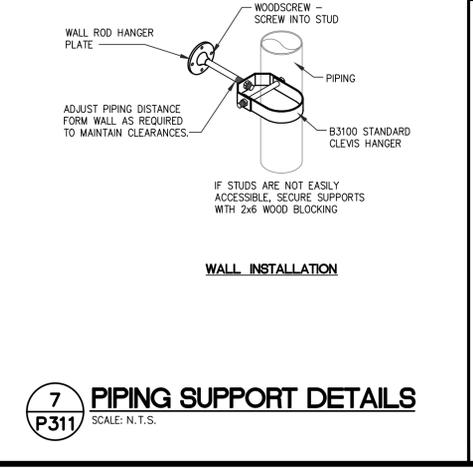
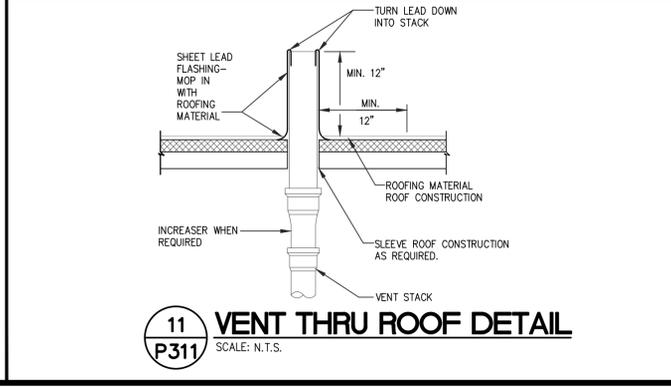
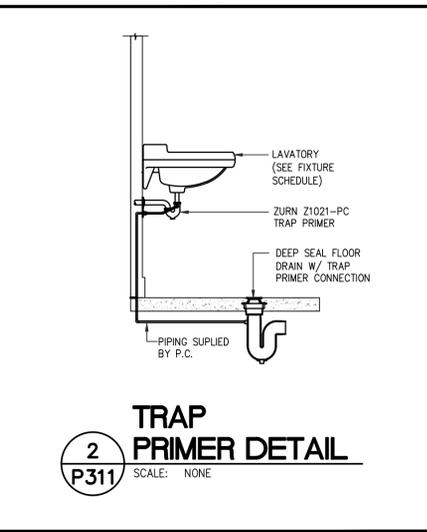
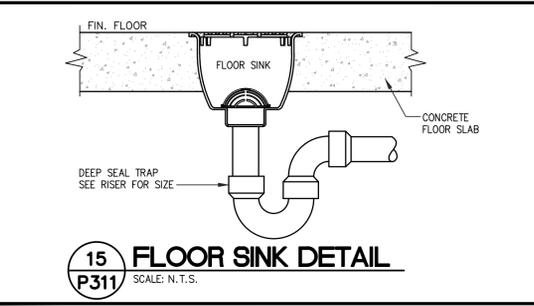
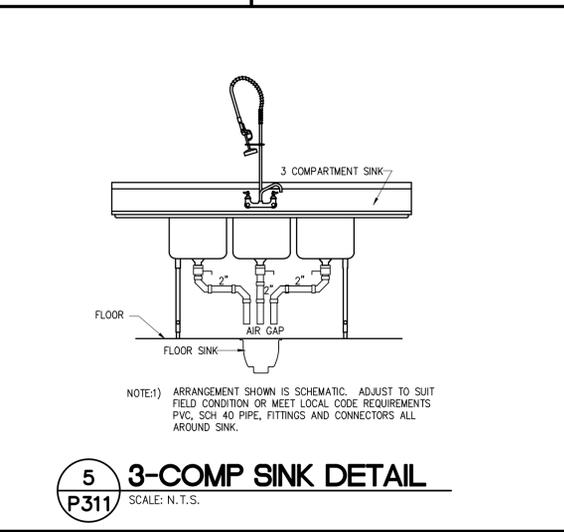
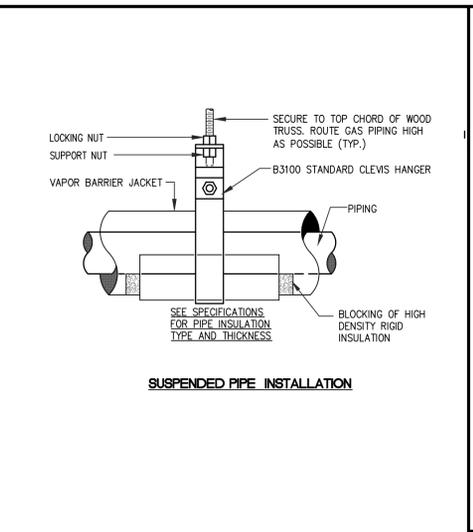
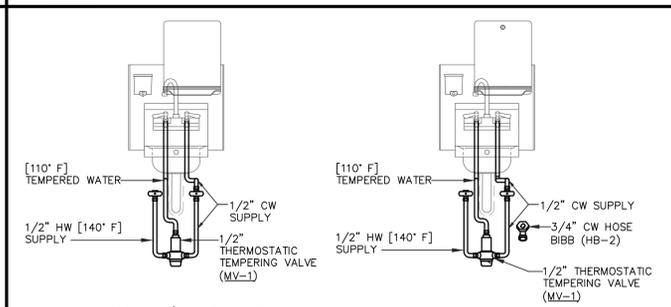
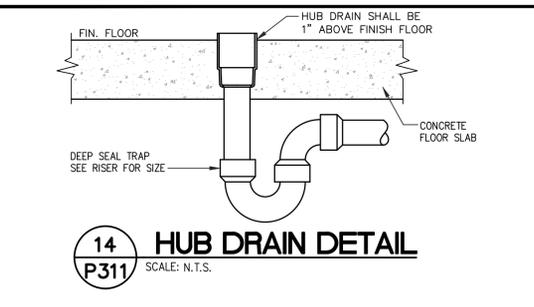
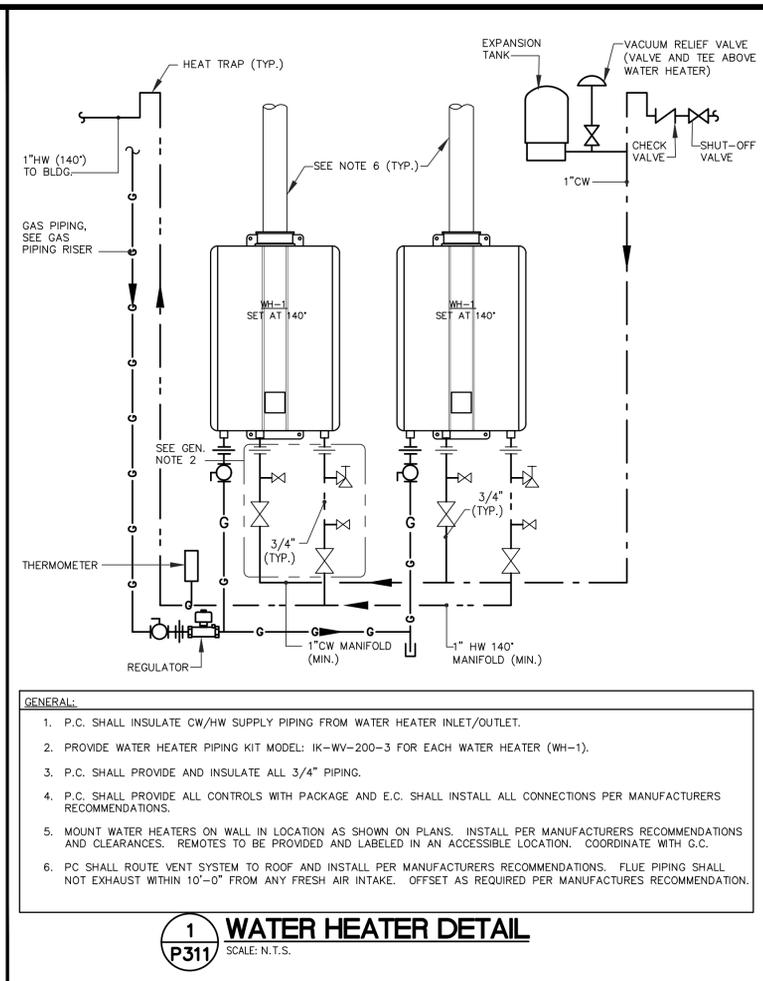
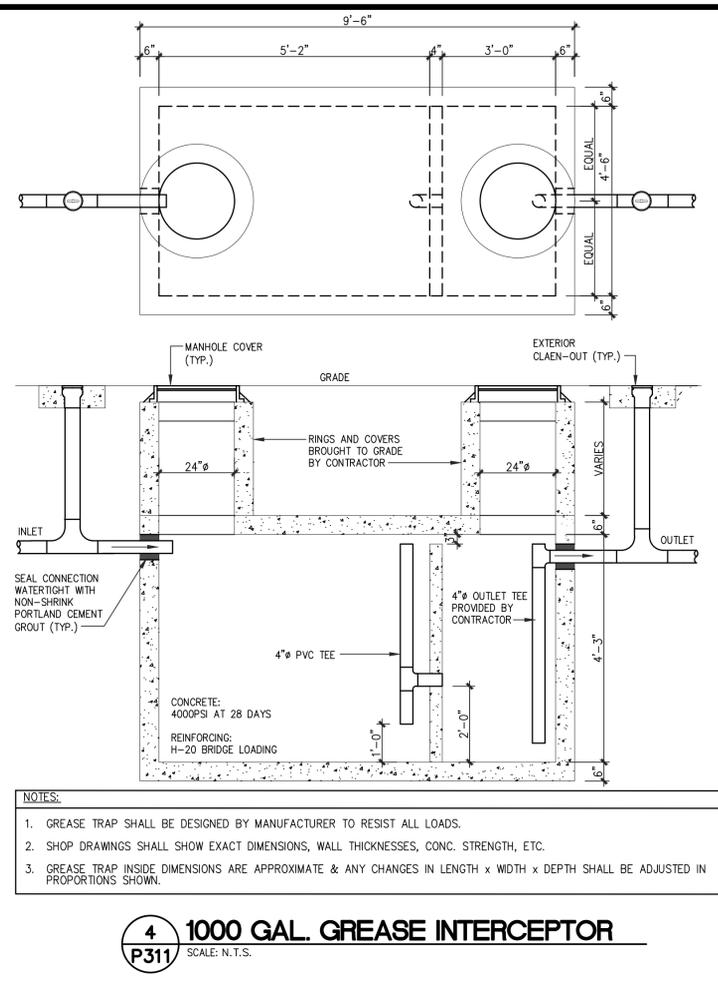
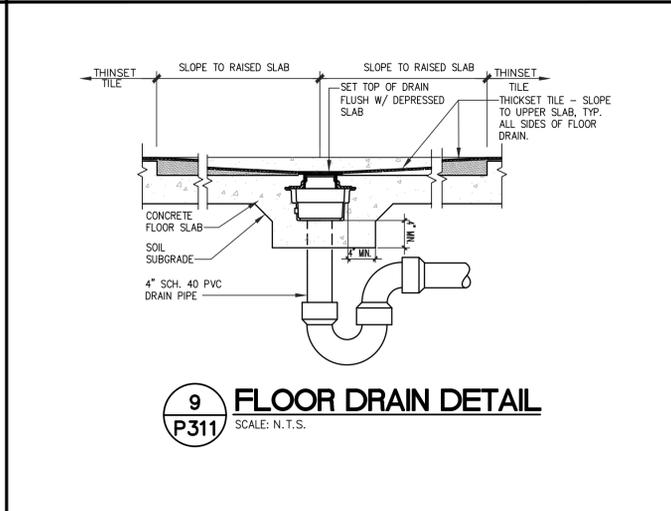
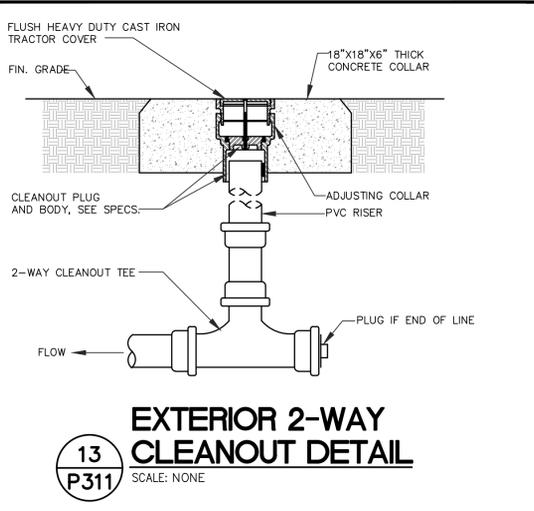
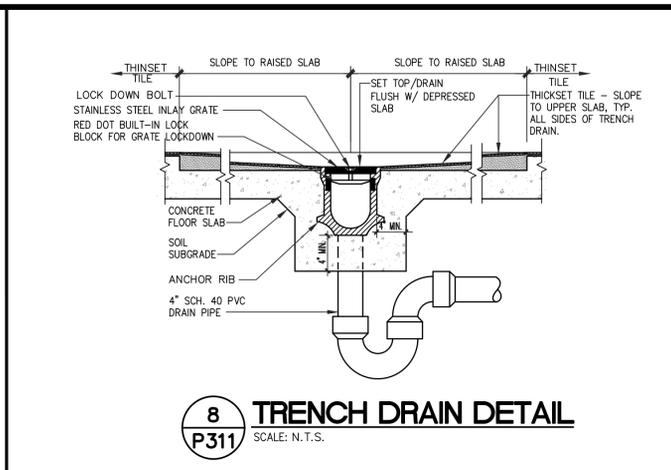
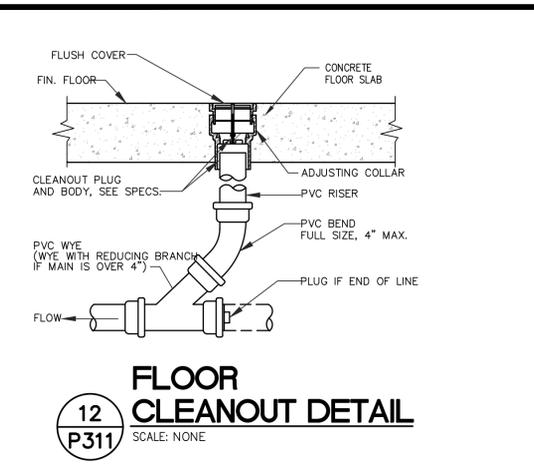


**1 PLUMBING WASTE/VENT RISER**  
 P211 SCALE: N.T.S.

**3 PLUMBING WATER RISER**  
 P211 SCALE: N.T.S.

**2 PLUMBING GAS RISER (2 PSI)**  
 P211 SCALE: N.T.S.

Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish\_6196\P211.dwg  
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Drawing File: Z:\2023\23047-HWY55 Hammond LA\CAD\P311.dwg  
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 Plotted Date: Jun 29, 2023 - 2:57pm

Revisions

THRU ADDENDUM "D"  
11/21/2022

PROJECT DATE  
06/29/2023

Drawn By  
JCL

Checked By  
SDS

Sheet No.  
**P411**

DIVISION 22 PLUMBING

SECTION 221000 - FACILITY PLUMBING SYSTEMS

1.00 GENERAL DIVISION 01 AND SECTION 022050 REQUIREMENTS APPLY TO THIS SECTION.

1.01 SUMMARY

- A. SECTION INCLUDES: PLUMBING.
B. PROVIDE LABOR, MATERIAL AND SERVICES REQUIRED FOR THE INSTALLATION OF COMPLETE AND SATISFACTORILY OPERABLE PLUMBING SYSTEM, INCLUDING EXTENSIONS OF, MODIFICATIONS AND CONNECTIONS TO EXISTING WORK. WORK IS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
1. COMPLETE SOIL, WASTE, RAIN WATER LEADERS AND VENT PIPING SYSTEMS, INCLUDING GREASE INTERCEPTOR AND CONNECTION TO SITE UTILITIES.
2. COMPLETE COLD AND HOT WATER PIPING SYSTEMS, INCLUDING WATER HEATERS AND PIPING AND EQUIPMENT THERMAL INSULATION.
3. PLUMBING FIXTURES, ALL NECESSARY TRIM AND ACCESSORIES.
4. EXCAVATION AND BACKFILL NECESSARY FOR WORK AND RESTORATION OF DAMAGED SURFACES AS REQUIRED.
5. DEMOLITION AND REMOVAL OF EXISTING MATERIALS AND EQUIPMENT RENDERED USELESS BY NEW WORK.
6. CUTTING, PATCHING, SLEEVES, CHASES, HANGERS, TESTING, AND OTHER ITEMS REQUIRED FOR COMPLETE PLUMBING SYSTEMS.
7. ROUGH IN AND FINAL CONNECTION KITCHEN EQUIPMENT.

1.02 EXAMINATION OF SITE

- A. CONTRACTOR SHALL EXAMINE THE CONSTRUCTION SITE AND EXISTING CONDITIONS AND TO COMPARE FIELD CONDITION WITH THE DRAWINGS AND SPECIFICATIONS.
B. VERIFY CONDITIONS: VERIFY MEASUREMENTS AND ELEVATIONS IN FIELD AS REQUIRED FOR WORK FABRICATED AND ELEVATIONS IN FIELD AS REQUIRED FOR WORK FABRICATED TO FIT JOB CONDITIONS. BEFORE STARTING WORK, GIVE WRITTEN NOTIFICATION OF ANY EXISTING DEFICIENCIES DETRIMENTAL TO PROPER AND TIMELY INSTALLATION OF WORK.

2.00 PRODUCTS

2.01 MATERIALS

- A. THE TERM "PIPING" AS USED HEREIN SHALL MEAN ALL PIPE, FITTINGS, NIPPLES, VALVES, UNIONS, ETC., AS MAY BE REQUIRED FOR A CONTINUOUS SYSTEM OF PIPING, AND SHALL BE SO CONSIDERED IN THIS SPECIFICATION.
B. SOIL, WASTE, RAIN WATER LEADERS AND VENT PIPING: RAINWATER, SOIL, WASTE AND VENT PIPING BELOW SLAB OR GRADE TO 5'-0" OUTSIDE OF BLDG. LINE SHALL BE SCHEDULE 40 PVC AND FITTINGS. THE GREASE SEWER PIPE SHALL BE HEAVY DUTY SCHEDULE 40 PVC AND PAINTED WITH A RED STRIPE. SOIL VENT LINE SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. ALL SEWER LINES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND AS APPROVED BY THE LOCAL AUTHORITIES.
C. DOMESTIC WATER PIPING: 1. BURIED PIPING SHALL BE TYPE "L" HARD COPPER TUBING, WROUGHT COPPER FITTINGS, LEAD FREE SOLDER JOINTS WITH 95 TIN ANTIMONY. ABOVE GROUND PIPING SHALL BE TYPE "K" COPPER, SILVER SOLDER OR BRAZED JOINTS, 300 PSI TEST.
D. CONDENSATE AND MISCELLANEOUS DRAINS: COPPER TUBING TYPE "M" WITH DWV COPPER SOLDER JOINT DRAINAGE FITTINGS, LEAD FREE EQUIVALENT TO 50-50 SOLDER.
E. NATURAL GAS (ABOVE GRADE): SCHEDULE 40 BLACK STEEL WITH 150-LB MALLEABLE IRON BLACK SCREWED FITTINGS. WHERE EXPOSED TO WEATHER MATERIALS SHALL BE GALVANIZED.
F. ACID WASTE: WASTE FROM SODA DISPENSING STATIONS, AND SIMILAR ACID WASTE PIPING: SCHEDULE 80 PVC WITH (SOLVENT JOINTS) (ELECTRICALLY FUSED JOINTS SIMILAR TO ORION OR GSR "EUSEAL").

2.02 VALVES

- A. MANUFACTURERS SHALL BE NIBCO, RED, WHITE OR EQUAL. EXCEPT WHERE INDICATED OTHERWISE, ALL VALVES SHALL BE A PRODUCT OF ONE MANUFACTURER.
1. GATE (SIZE 2-1/2 INCH AND SMALLER): BRONZE, CLASS 125, SCREWED BONNET, NON-RISING STEM, WEDGE DISC, 125 SWP, 200 WOG, SCREWED ENDS.
2. GLOBE: BRONZE, CLASS 150, UNION BONNET, DISC FOR 250 DEGREE F HOT WATER SERVICE, 150 SWP, 200 WOG, SCREWED ENDS.
3. CHECK (SIZES 2-1/2 INCH AND SMALLER): BRONZE CLASS 125, SCREWED CAP, SWING, Y-PATTERNS, SCREWED CAP, BRONZE DISC, 125 SWP, 200 WOG, SCREWED ENDS.
4. GAS COOKS: DEZURK OR EQUAL, BRONZE OR SEMI-STEEL BODY, LEVEL HANDLE, LUBRICATED 125 WOG, UL LISTED SCREWED ENDS. SIZES 3-INCH AND LARGER SHALL HAVE FLANGED ENDS.
5. PRESSURE AND TEMPERATURE RELIEF VALVES: ASME, AGA OR UL CODE, LEVER HANDLE, WATTS OR EQUAL.
6. PRESSURE REDUCING VALVES: C.M. BAILLEY WATTS, BRONZE BODY WITH STRAINER, SCREWED ENDS SIZES 2-1/2 INCH AND SMALLER.
7. BACKFLOW PREVENTER: REDUCE PRESSURE TYPE, WATTS, FEBCO OR EQUAL.

2.03 PIPING SPECIALTIES

- A. DIELECTRIC UNIONS: EPDO, CALIPCO OR EQUAL, AT ALL CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPE MATERIALS.
B. UNIONS: GRINNELL OR EQUAL, BRONZE TO IRON SEAT, BLACK OR GALVANIZED TO MATCH PIPING. ANACONDA OR EQUAL FOR COPPER PIPING.
C. HOSE BIBBS: WOODFORD, CHICAGO OR EQUAL, WITH VACUUM BREAKER, POLISHED CHROME PLATE FINISH. OTHER TYPES AS REQUIRED AND APPROVED.
D. SHOCK ABSORBERS: ZURN, J.R. SMITH OR EQUAL, SHOKTROL Z1700. SIZED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ACCESS DOORS AT EACH SHOCK ABSORBER.
E. ESCUTCHEONS: CHROME PLATED CAST BRASS OR STAMPED STAINLESS STEEL PLATES, SPLIT TYPE, WITH CHROME PLATED SET SCREW. PROVIDE AT ALL EXPOSED LOCATIONS WHERE PIPE PENETRATES FLOOR, WALL OR CEILING.
F. FLOOR CLEANOUTS: ZURN, J.R. SMITH OR EQUAL, SERIES Z1400-HD. OTHER TYPES FOR CARPET, LINOLEUM AND TILE FLOOR SHALL BE AS APPROVED. PROVIDE CAST IRON COVER WITH NICKEL BRONZE FRAME AND TOP FOR HEAVY TRAFFIC AREAS. SET DRAINS AND CLEAN-OUT FLUSH WITH FINISH FLOOR.
G. WALL CLEANOUTS: ZURN, J.R. SMITH OR EQUAL, SERIES 1460-8.
H. TRAP PRIMERS: ZURN, J.R. SMITH, JOSAM, OR EQUAL, SUITABLE FOR DEAD END SERVICE, ALL BRONZE WITH VACUUM BREAKER WITH GASKETED BRONZE COVER, UNION CONNECTION. AT EACH TRAP PRIMER PROVIDE GATE VALVE AND ACCESS DOOR.
I. PIPE ISOLATORS: STONEMAN "TRISOLATOR" OR EQUAL. PROVIDE ON ALL BARE BRANCH PIPE RUNS AT POINT OF ATTACHMENT.
J. PLUMBING VENT FLASHING: FURNISH 2 PIECE, 4 LBS LEAD FLASHING WITH A 4" FLANGE, MANUFACTURED PER SMACNA MANUAL, PLATE 66, FIG.B. LEAD SHALL EXTEND A MINIMUM OF 8" ABOVE ROOF DECK. LEAD CAP SHALL TURN DOWN OVER LEAD FLASHING.
K. WALL SLEEVES: R-K INDUSTRIES NO. 100 (WALL) AND NO. 10 (DECK), OR EQUAL.
L. PROVIDE ONE PIECE, 4 LEAD SHEET FOR DRAIN SUMPS. LEAD SHALL BE SIZED TO EXTEND UNINTERRUPTED UP CANTS OR TAPERED EDGE STRIPS, AND TO TERMINATE JUST BELOW DECK LINE. LEAD SHALL MEET FER. SPEC. 02-201, GRADE B.
M. PROVIDE 4 LBS LEAD FLASHING WITH MINIMUM 4" FLANGE AT PIPES AND CONDUITS. PROVIDE STAINLESS STEEL DRAW BAND AT TOP OF LEAD. SEAL WITH URETHANE SEALER.
N. DRAINS SHALL BE COATED CAST IRON WITH CAST IRON CLAMPING RING AND STRAINER.
O. ROOF DRAINS AND OVER FLOW DRAINS: ROOF AND OVERFLOW DOMES SHALL BE COATED CAST IRON OR BRONZE.

2.04 PLUMBING FIXTURES

- A. PROVIDE TRIMS FOR FIXTURES AND APPLIANCES FURNISHED UNDER OTHER SECTIONS AND THIS SECTION OF THE WORK.
B. TRIM:
1. ALL EXPOSED TRIM, INCLUDING TUBING, TRAPS AND WASTE PIECES, SHALL BE POLISHED CHROME.
2. PROVIDE SEPARATE CONTROL STOPS FOR EACH FIXTURE, POLISHED CHROME PLATED.
3. "P" TRAPS SHALL BE ADJUSTABLE 1-1/4 INCH INLET, 1-1/2" OUTLET FOR LAVATORIES AND 1-1/2 INCH BY 1-1/2 INCH FOR SINKS AS NOTED.

2.05 EQUIPMENT

- A. "RINNAI" GAS FIRED, TANKLESS HOT WATER HEATER, INDOOR UNIT WITH WALL MOUNT BRACKET, PRESSURE RELIEF VALVE AND ADAPTER, ISOLATION VALVE KIT, EXTERNAL PUMP CABLE, CONTROLLER CABLE, VENT SCREENS, 8 YEAR HEATER EXCHANGE WARRANTY, 5 YEAR PARTS AND COMPONENTS WARRANTY, AND 1 YEAR LABOR WARRANTY. (1 YEAR PARTS AND LABOR THROUGH GENERAL CONTRACTOR)
1. THE WATER HEATERS SHALL BE INSTALLED WITH THE COMMERCIAL CONTROLLER AND ALL CABLING AND PARTS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

3.00 EXECUTION

3.01 SOIL, WASTE, RAIN WATER LEADERS AND VENT PIPING

- A. PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND BE SUPPORTED AT INTERVALS AS SPECIFIED. MINIMUM SLOPES SHALL BE NOT LESS THAN 1/4" FALL PER FOOT, EXCEPT WHERE OTHERWISE SHOWN OR NOTED ON DRAWINGS. NO STRUCTURAL MEMBER SHALL BE WEAKENED OR IMPAIRED BEYOND A SAFE LIMIT BY CUTTING, NOTCHING, UNLESS PROVISION IS MADE FOR CARRYING STRUCTURAL LOAD.
B. CLEAN OUT SHALL BE INSTALLED WHERE INDICATED AND WHERE REQUIRED PER CODE, OF SAME SIZE AS PIPE. PROVIDE CLEANOUTS AT ENDS OF EACH RUN/IN CHANGE OF DIRECTION FOR RUNS LONGER THAN 5-FEET MEASURED ALONG PIPE UNLESS OTHERWISE NOTED.

3.02 WATER PIPING

- A. NO VALVE SHALL BE INSTALLED WITH STEM BELOW HORIZONTAL. VALVE SHALL BE LINE SIZE, UNLESS OTHERWISE INDICATED.
B. REDUCING FITTINGS SHALL BE USED IN MAKE REDUCTION IN SIZE OF PIPE. BUSHINGS WILL NOT BE ALLOWED.

3.03 PIPE JOINTS AND CONNECTIONS

- A. JOINTS IN NO-HUB CAST IRON PIPE SHALL BE MADE WITH "CLAMP-ALL" OR "HUSKY" NEOPRENE GASKETS AND 24 GAUGE TYPE 304 STAINLESS STEEL BAND AND SCREW JOINTING ASSEMBLIES. JOIN BELL AND SPIGOT PIPE WITH OAKUM OR SEALITE CAULKING YARN AND CAULK WITH MOLTEN LEAD.

3.04 INSULATION

- A. APPLY INSULATION AFTER ALL TESTS HAVE BEEN SATISFACTORILY COMPLETED.
B. INSULATE ALL DOMESTIC HOT WATER PIPING, TEMPERED WATER, HOT WATER RETURN AND ALL CONCEALED DOMESTIC COLD WATER PIPING AND RAIN WATER LEADERS WITH 1" THICK PRE-MOLDED GLASS FIBER INSULATION WITH FACTORY APPLIED FIRE RETARDANT VAPOR BARRIER JACKET AND SELF SEALING LAP. INSULATING VALVES SHALL BE PER CURRENT ENERGY CODE IN EFFECT.
C. PIPING INSTALLED OUTDOOR EXPOSED TO WEATHER (HOT WATER, HOT WATER RETURN AND COLD WATER) SHALL BE COVERED WITH 16 MIL SMOOTH ALUMINUM JACKET, INCLUDING ELBOWS, FITTINGS, VALVES AND CIRCULATING PUMP.

3.05 HANDICAP PLUMBING FIXTURES INSTALLATION

- A. PLUMBING FIXTURES INSTALLATION HEIGHT AND TYPE SHALL COMPLY WITH STATE PLUMBING CODE AND ADA REGULATIONS. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
1. WATER CLOSETS: THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17 INCHES AND A MAXIMUM OF 19 INCHES MEASURED TO THE TOP OF THE TOILET SEAT. CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS, NO MORE THAN 44 INCHES ABOVE THE FLOOR.
2. URINALS:
a. URINALS RIM PROJECTING A MINIMUM OF 14 INCHES FROM THE WALL AND AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
b. FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST AND SHALL BE MOUNTED NO MORE THAN 44 INCHES ABOVE THE FLOOR.
3. LAVATORIES:
a. LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29 INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30 INCHES IN WIDTH WITH 8 INCHES MINIMUM DEPTH AT THE TOP. TOE CLEARANCE SHALL BE THE SAME WIDTH AND SHALL BE A MINIMUM OF 9 INCHES HIGH FROM THE FLOOR AND A MINIMUM OF 17 INCHES DEEP FROM THE FRONT OF THE LAVATORIES. THERE SHALL BE 48"x30" PLAN DIMENSIONS CLEAR IN FRONT OF LAVATORY DRAIN.
b. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED WITH HANDI LAV GUARD INSULATION KIT MANUFACTURED BY TRUBERO INC. OR EQUAL. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
c. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.

3.06 CLEANING AND PRESERVATION

- A. PLUMBING PIPING, FIXTURES, AND EQUIPMENT SHALL BE THOROUGHLY CLEANED OF SCALE, RUST, LABELS, PRIOR TO ENCLOSING AND PLACING IN OPERATION.
B. LEAVE ALL EXPOSED METAL AND INSULATION SURFACES CLEAN AND READY TO RECEIVE PAINT.

3.07 TESTS

- A. GENERAL:
1. ACCOMPLISH TESTING OF PIPING IN SECTIONS SO AS NOT TO LEAVE ANY PIPE OR JOINT UNTESTED.
B. PERFORM TESTS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
SYSTEM TESTED GAGE PRESSURE TEST WITH AT START AFTER 4 HOURS
DOMESTIC WATER 150 LBS. 145 LBS WATER (HOT AND COLD).
SOIL, WASTE, VENT AND RAIN WATER LEADERS\* 150 LBS. 145 LBS WATER
\* FILL WATER TO TOP OF HIGHEST VENT, ALLOW TO STAND TWO HOURS OR AND RAIN WATER LEADERS LONGER AS DIRECTED BY THE ARCHITECT TO PROVE TIGHT. TESTING MAY BE DONE IN SECTIONS. EACH SECTION TESTED SHALL INCLUDE AT LEAST 10 FEET OF THE UPPER PORTION OF THE NEXT PRECEDING SECTION.
GAS PIPING 20 LBS. OIL FREE COMP. AIR

3.08 STERILIZATION/CHLORINATION OF DOMESTIC WATER SYSTEM

- A. UPON COMPLETION OF THE WORK, THE ENTIRE NEW DOMESTIC HOT AND COLD WATER PIPING SYSTEMS DOWNSTREAM OF NEW SHUT-OFF VALVES SHALL BE FLUSHED AND STERILIZED BEFORE USE PER CODE.

3.09 COMPLETION

- A. AT COMPLETION OF WORK AND JUST BEFORE OCCUPANCY, PLUMBING FIXTURES, FAUCETS, AND EXPOSED CONNECTIONS, AND INTERIOR OF TRAPS, SHALL BE CLEANED.
B. REPAIR OR REPLACE ANY DAMAGED FIXTURES, REGULATE FIXTURE SUPPLIES TO GIVE PROPER SUPPLY OF WATER, AND LEAVE IN FIRST CLASS CONDITION.
C. WHEN WORK IS COMPLETED, REMOVE SURPLUS EQUIPMENT, MATERIALS, AND RUBBISH RESULTING FROM THIS WORK, AND LEAVE BUILDING IN SATISFACTORY CONDITION ACCEPTABLE TO THE ARCHITECT.

3.10 GUARANTEE

- A. GUARANTEE MATERIALS, APPARATUS, EQUIPMENT, AND WORKMANSHIP FURNISHED TO BE FREE FROM DEFECTS, AND REPLACE WITHOUT COMPENSATION WITHIN TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

END OF SECTION

SECTION 221113 - FACILITY WATER DISTRIBUTION PIPING

1.00 GENERAL DIVISION 1 REQUIREMENTS APPLY TO THIS SECTION.

1.01 SUMMARY

- A. SECTION INCLUDES: PROVIDE ALL WATER SERVICE, INCLUDING:
1. YARD PIPING.
2. WATER METER (UNLESS PROVIDED BY WATER SUPPLIER).

1.02 REFERENCES

- A. AWWA: AMERICAN WATER WORKS ASSOCIATION.
B. INTERNATIONAL PLUMBING CODE.

1.03 PROJECT RECORD DOCUMENTS

- A. SUBMIT DOCUMENTS UNDER PROVISIONS OF SECTION 01720.
B. RECORD LOCATION OF PIPE RUNS AND CONNECTIONS.
C. IDENTIFY AND DESCRIBE UNEXPECTED VARIATIONS TO SUBSOIL CONDITIONS OR DISCOVERY OF UNCHARTED UTILITIES.

1.04 REGULATORY REQUIREMENTS

- A. CONFORM TO APPLICABLE STATE AND LOCAL CODE FOR MATERIALS AND INSTALLATION OF THE WORK OF THIS SECTION.

1.05 FIELD MEASUREMENTS

- A. MAKE ALL NECESSARY MEASUREMENT IN THE FIELD TO ENSURE PRECISE FIT OF ITEMS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.

1.06 COORDINATION

- A. COORDINATE WORK UNDER PROVISIONS OF SECTION 01039.
B. COORDINATE THE WORK WITH TERMINATION OF WATER CONNECTION OUTSIDE BUILDING, CONNECTION TO WATER METER AND STREET SERVICE, AND TRENCHING.

2.00 PRODUCTS

2.01 PIPE MATERIALS

- A. GENERAL: PROVIDE ELLS, TEES, REDUCING TEES, WYES, COUPLINGS, AND OTHER REQUIRED PIPING ACCESSORIES OF SAME TYPE AND CLASS OF MATERIAL AS CONDUIT, OR OF MATERIAL HAVING EQUAL OR SUPERIOR PHYSICAL AND CHEMICAL PROPERTIES AS ACCEPTABLE TO OWNER'S REPRESENTATIVE.

- B. CAST IRON PRESSURE PIPE: AWWA C106, WITH FITTINGS COMPLYING WITH AWWA C110 AND; RUBBER GASKETS COMPLYING WITH AWWA C111; CAST IRON FITTINGS, ASTM A126.
C. DUCTILE IRON PIPE: AWWA C106, WITH FITTINGS COMPLYING WITH AWWA C110 AND; RUBBER GASKETS COMPLYING WITH AWWA C111; CAST IRON FITTINGS, ASTM A126.
D. COPPER TUBE: ASTM B88, SOFT ANNEALED TEMPER; CAST COPPER ALLOY FLARED JOINT FITTINGS, ANSI B16.26.

2.02 CONTROL VALVES

- A. GENERAL: PROVIDE VALVES AND FLOW CONTROL DEVICES AS INDICATED AND REQUIRED BY LOCAL PLUMBING CODES, WHICHEVER IS MORE STRINGENT.

2.03 WATER METERS

- A. GENERAL: THE WATER METERS AND STREET SERVICE LINES WILL BE INSTALLED BY THE LOCAL UTILITY COMPANY, UNLESS UTILITY CONTRACTORS ARE APPROVED TO DO THE WORK. PROVIDE ROUGHING IN AND BYPASS FOR METER IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

2.04 ACCESSORIES

- A. GENERAL: PROVIDE ANCHORAGES FOR TEES, PLUGS, CAPS, AND BENDS. AFTER INSTALLATION, APPLY A FULL COAT OF ASPHALT OR OTHER ACCEPTABLE CORROSION RETARDING MATERIAL TO SURFACES OF RODS AND CLAMPS.
1. THRUST BLOCKS: 2500 PSI CONNECT.
2. VALVE BOXES: AS REQUIRED BY CODE.

3.00 EXECUTION

3.01 EXAMINATION

- A. PRIOR TO INSTALLATION, CAREFULLY INSPECT THE INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE.
B. VERIFY THAT SYSTEM WILL BE INSTALLED IN STRICT ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND ALL PERTINENT CODES AND REGULATIONS, REFERENCED STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
C. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE PROJECT MANAGER. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL SUCH DISCREPANCIES ARE FULLY RESOLVED.

3.02 PREPARATION

- A. HAND TRIM EXCAVATIONS TO REQUIRED ELEVATIONS. CORRECT OVER EXCAVATIONS WITH FINE COURSE AGGREGATE / LEAN CONCRETE.
B. REMOVE LARGE STONES OR OTHER HARD MATTER WHICH COULD DAMAGE PIPE OR IMPEDE CONSISTENT BACKFILLING OR COMPACTION.

3.03 INSTALLATION

- A. ALL PIPE AND EQUIPMENT SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PERTINENT CODES AND REGULATIONS.
B. WATER SERVICE PIPING: EXTEND WATER SERVICE PIPING OF SIZE AND IN LOCATION INDICATED TO WATER SERVICE ENTRANCE AT BUILDING. PROVIDE SLEEVE IN FOUNDATION WALL FOR WATER SERVICE ENTRY. MAKE ENTRY WATERTIGHT. PROVIDE BALL VALVE AT WATER SERVICE ENTRY INSIDE BUILDING; STRAINER, PRESSURE GAUGE, TEST TEE WITH VALVE.

3.04 FIELD QUALITY CONTROL

- A. FIELD INSPECTION AND TESTING WILL BE PERFORMED UNDER PROVISIONS OF SECTION 01400.
B. PRIOR TO BACKFILLING, PIPELINES SHALL BE FLUSHED, CLEARED OF DEBRIS, AND TESTED FREE FROM DEFECTS.
C. WATER LINE TESTING:
1. BLEED AIR FROM THE LINES.
2. FILL LINES WITH WATER AT LEAST 24 HOURS PRIOR TO TESTING.
3. AFTER VALVES HAVE BEEN INSTALLED, TEST LINES FOR LEAKS AT 150 PSI PRESSURE WITH ALL COUPLINGS AND FITTINGS EXPOSED AND WITH ALL PIPE SECTIONS CENTER LOADED.
4. TESTS SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
5. AFTER LEAKS AND DEFECTS AND DAMAGE HAVE BEEN CORRECTED AND REPAIRED, RETEST LINE UNTIL APPROVED BY OWNER'S PROJECT MANAGER.
D. IF TESTS INDICATE WORK DOES NOT MEET SPECIFIC REQUIREMENTS, REMOVE WORK, REPLACE AND RETEST AT NO COST TO OWNER.

3.05 PROTECTION

- A. PROTECT FINISHED INSTALLATION UNDER PROVISIONS OF SECTION 01500.
B. PROTECT PIPE AND AGGREGATE COVER FROM DAMAGE OR DISPLACEMENT UNTIL BACKFILLING OPERATION IS IN PROGRESS.

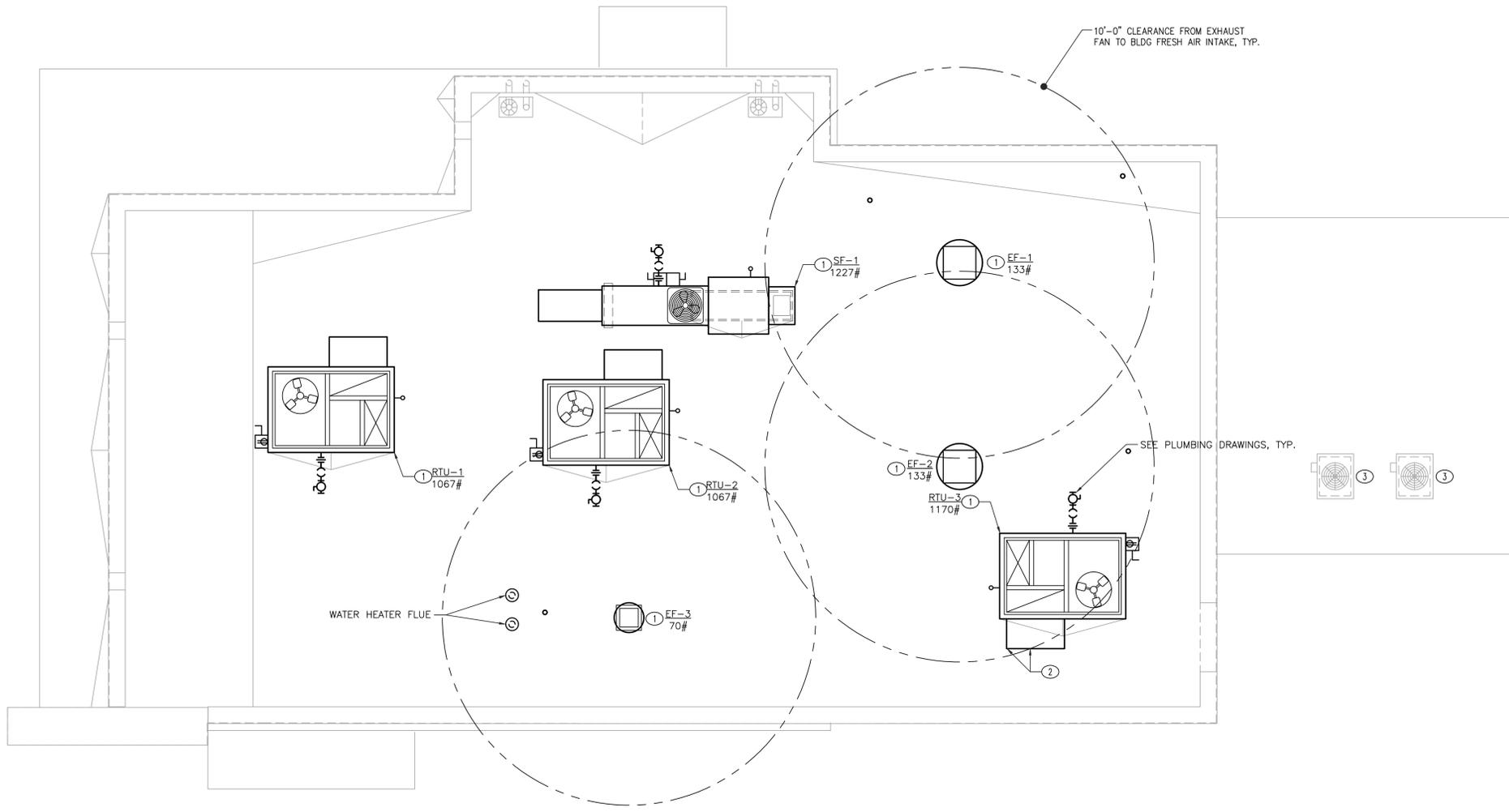


### CONSTRUCTION NOTES

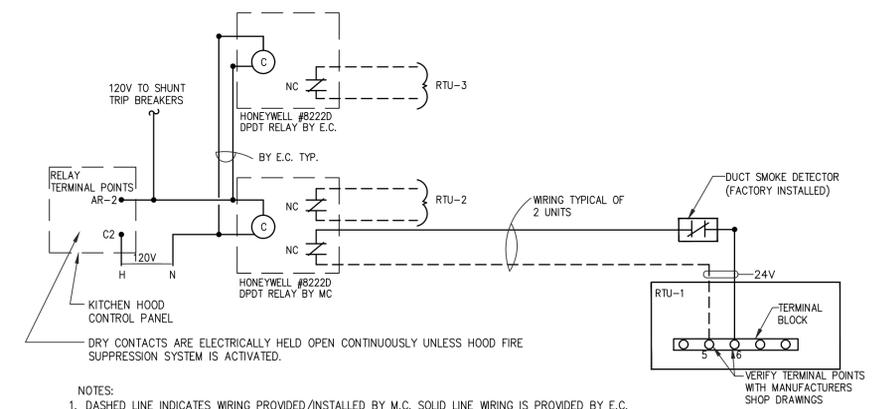
- MC SHALL LABEL RTU'S, EF'S AND SF'S WITH RTU/EF/SF # (3" HIGH BLACK LETTERS) AS APPLICABLE, I.E. "RTU #1". ADD "MERV 13 FILTERS ONLY" UNDER THE RTU # LABEL.
- EXTEND OA INTAKE IN FIELD FOR EF-2 CLEARANCE.
- COOLER/FREEZER CONDENSERS ARE SUPPLIED WITH COOLER/FREEZER PACKAGE. SEE ARCHITECTURAL SHEETS.

### GENERAL NOTES

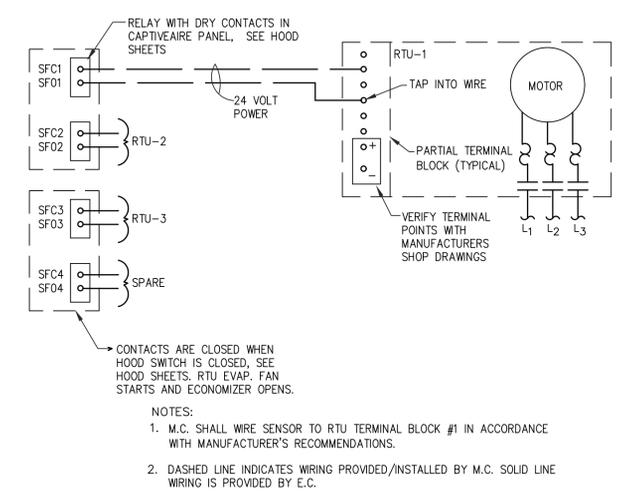
- SEE SHEET M601 FOR OTHER GENERAL NOTES.
- COORDINATE ALL ROOF TOP EQUIPMENT WITH ROOF FRAMING PLAN. SEE STRUCTURAL SHEETS.
- ALL MECHANICAL EXHAUST OUTLETS SHALL BE INSTALLED 10' (MIN.) FROM ANY BUILDING FRESH AIR INTAKE AS SHOWN.
- ALL PENETRATIONS THRU ROOF SHALL BE BY GEN. CONTR. AS PER ROOF MFR.'S STANDARD DETAILS.
- ALL ROOF TOP UNITS SHALL BE LEVEL AFTER INSTALLATION. MC SHALL VERIFY ALL RTU'S DRAIN PANS FOR PROPER DRAINAGE.
- ALL GAS PIPING AND ELECT. CONDUITS PENETRATING ROOF SHALL GO THROUGH ROOF CONDUIT CURB (SEE PLUMBING AND ELECTRICAL PLANS) INSTALLED BY GC & ROOFING CONTRACTOR; EC AND PC SHALL COORDINATE. INSTALL PER ROOFING MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
- M.C. SHALL FIELD VERIFY STRUCTURAL CONFIGURATION, ADJUST EXHAUST FAN CAP LOCATION AS REQUIRED TO AVOID ROOF STRUCTURE.
- GENERAL CONTRACTOR SHALL PROVIDE ROOF OPENINGS.
- MECHANICAL CONTRACTOR SHALL SET ROOF TOP UNIT CURBS.
- FOR ROOF STRUCTURE LAYOUT SEE STRUCTURAL DRAWINGS
- MC SHALL PLACE EQUIPMENT ON ROOF AS SHOWN ON PLAN.
- SEE ARCHITECTURAL ROOF PLAN FOR ROOFTOP UNIT DIMENSIONING AND INSTALLATION DETAILS.



**1 MECHANICAL ROOF PLAN**  
 M161 SCALE: 1/4" = 1'-0"



**4 EMERGENCY AC UNIT SHUT DOWN DETAIL**  
 M161 SCALE: NONE

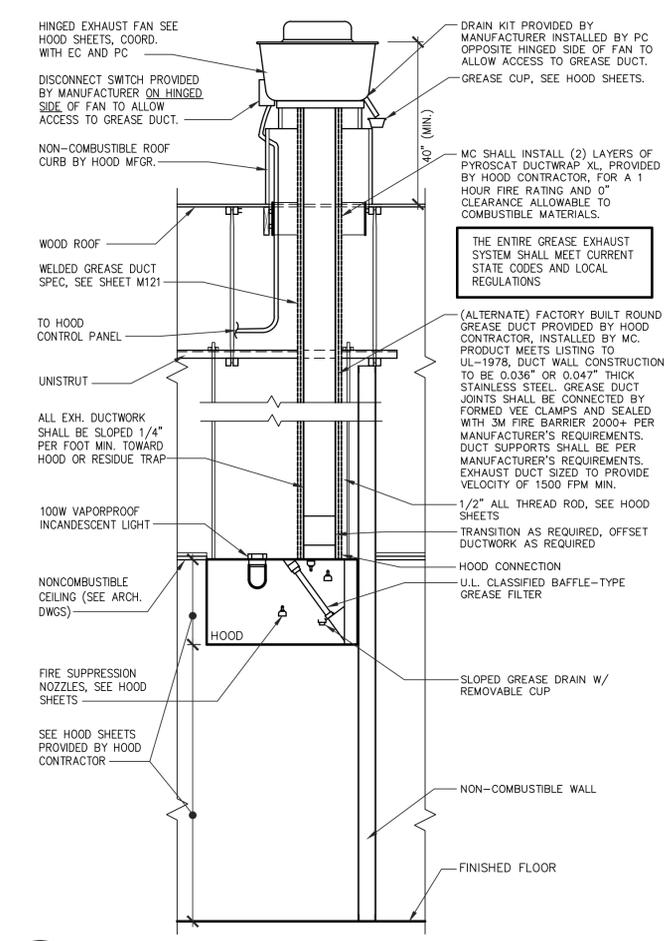


**3 RTU INTERLOCK WIRING DETAIL**  
 M161 SCALE: NONE

IF ANY DISCREPANCIES ARE FOUND ON THE PLANS, THE CONTRACTOR SHALL BID AND 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.

UNLESS NOTED OTHERWISE, ALL ITEMS ARE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.



**2 TYP. GREASE HOOD AND DUCT DETAIL**  
 M161 SCALE: NONE (TYPE 1)

**NOTE:**

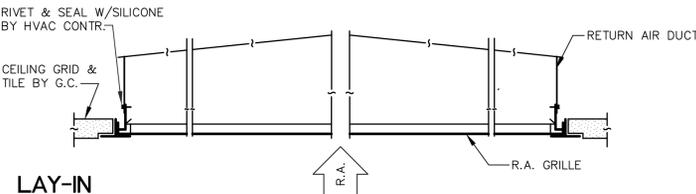
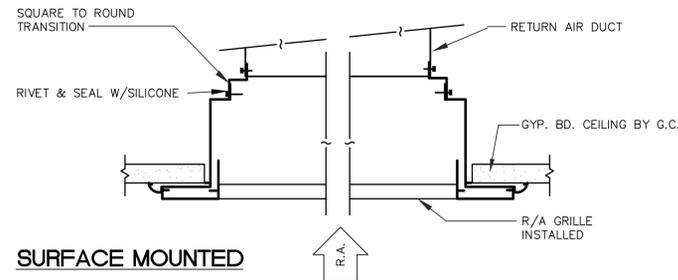
- REQUIREMENTS SHOWN ARE FOR A TYPE "1" HOOD IN A SINGLE STORY BUILDING WITH NON-RATED ROOF ASSEMBLY.
- HOOD SHALL BE LISTED BY NATIONAL AGENCY, SEE HOOD SHEETS.
- FACTORY BUILT CLEAN-OUTS SHALL BE PROVIDED IN GREASE EXHAUST DUCT AT ALL CHANGES IN DIRECTION. THE CLEAN-OUT PANEL SHALL BE MADE OF THE SAME MATERIAL AND THICKNESS AS THE DUCT. THE C.O. PANEL SHALL HAVE A GASKET OR SEALANT THAT IS RATED FOR 1500F MIN. AND SHALL BE GREASE TIGHT.
- GC SHALL PROVIDE FIRE RATED ACCESS PANEL AT THE DUCT ENCLOSURE TO ACCESS DUCT CLEANOUTS. A SIGN SHALL BE PLACED ON ALL FIRE SHIELDING ACCESS PANELS STATING "ACCESS PANEL-DO NOT OBSTRUCT".
- MC SHALL VERIFY WITH LOCAL CODE OFFICES ON ACCEPTABILITY OF PARTICULAR DUCT-WRAP MODEL AND MANUFACTURER. INSTALL ONLY LOCALLY APPROVED MATERIALS.
- MAINTAIN 18" CLEAR FROM HOOD (INCLUDING TOP) TO COMBUSTIBLE MATERIALS UNLESS APPROVED SHIELDING IS APPLIED TO REDUCE CLEARANCE.



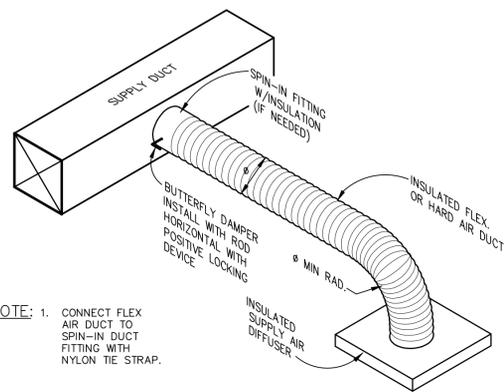
PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: **MECHANICAL ROOF PLAN**

Revisions	
THRU ADDENDUM "D"	
11/21/2022	

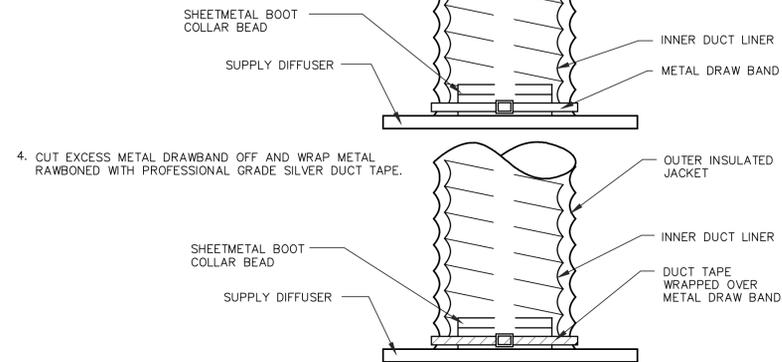
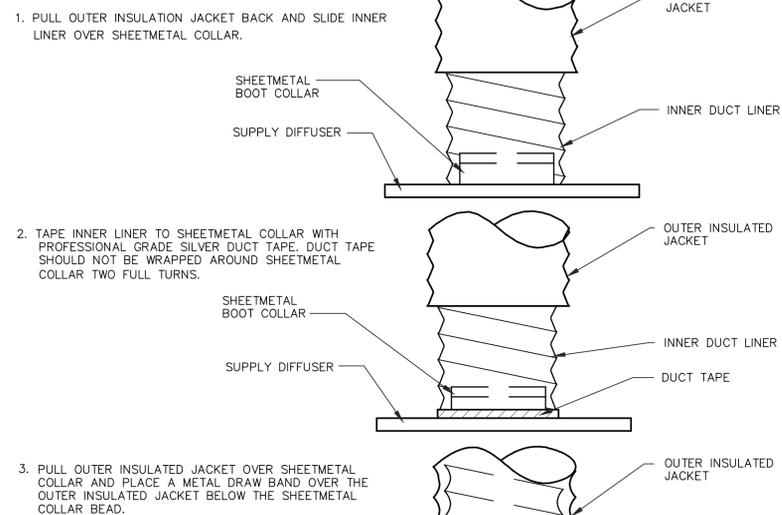
PROJECT DATE: 06/29/2023  
 Drawn By: RJB  
 Checked By: NRT  
 Sheet No. **M161**



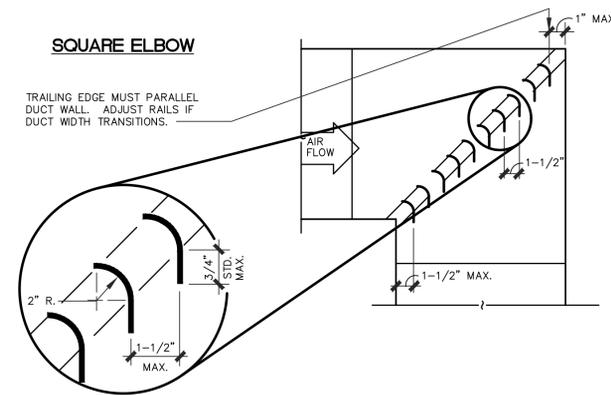
**1 GRILLE CONNECTION**  
M501 SCALE: NONE



**2 TYPICAL DUCT CONNECTION**  
M501 SCALE: NONE

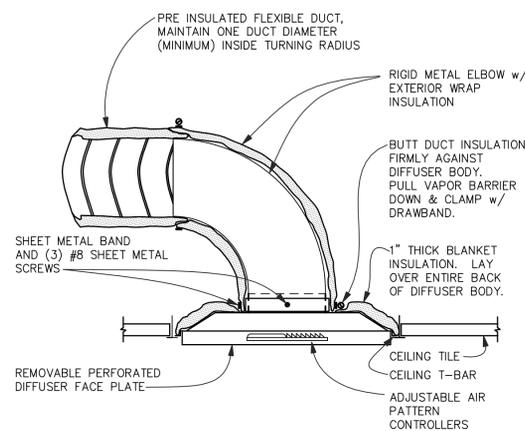


**3 FLEX DUCT CONNECTION TO DIFFUSERS AND SHEETMETAL DUCTWORK COLLARS**  
M501 SCALE: NONE



**4 TYPICAL DUCT ELBOW**  
M501 NONE

NOTE:  
1. THIS IS AN ASHRAE TYPE 3 VANE AVAILABLE FROM BARBER-COLEMAN OR SHOP FAB. WITH RAILS FROM "EAST COAST METAL DISTRIBUTORS" OR EQUAL.  
2. ALL RECTANGULAR 90° ELBOWS AND TEES SHALL HAVE TURNING VANES.



**6 LAY-IN DIFFUSER DETAIL**  
M501 SCALE: NONE

Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	RJB
Checked By	NRT
Sheet No.	<b>M501</b>

FOR QUESTIONS, CALL THE  
Eastern North Carolina  
REGION 36  
PHONE: (919) 825-3566  
EMAIL: reg36@captiveaire.com

PATENT NUMBERS  
AC-PSP (UNITED STATES) - US PATENT 7963830 B2.  
AC-PSP WALL (CANADA) - CA PATENT 2820509.  
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.  
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

**HOOD INFORMATION - JOB#5719764**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG				
										WIDTH	LENG	HEIGHT	DIA			CFM	VEL	SP	END TO END	ROW
1	HOOD 1	5424 ND-2-PSP-F	CAPTIVEAIRE	12' 0"	600 DEG	I	HEAVY	205	2460			4'	16'	2460	1762	-0.837'	2100	430 SS WHERE EXPOSED	ALONE	ALONE
2	HOOD 2	5424 ND-2	CAPTIVEAIRE	10' 0"	600 DEG	I	HEAVY	184	1845			4'	16'	1845	1321	-0.495'	0	430 SS WHERE EXPOSED	ALONE	ALONE

**HOOD INFORMATION**

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1	HOOD 1	CAPTRATE SOLID FILTER	9	20"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	NQ	RIGHT	12"x54"x24"	TANK FS	4.0/4.0		YES	994 LBS	
2	HOOD 2	CAPTRATE SOLID FILTER	7	20"	16"	85% SEE FILTER SPEC	7	L55 SERIES E26	NQ	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-E012022MA	2 LIGHT 2 FAN	YES	604 LBS

**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1	HOOD 1	FIELD WRAPPER 6.00' HIGH FRONT, LEFT, RIGHT. BACKSPLASH 80.00' HIGH X 156.00' 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. INSULATION FOR BACK OF HOOD.
2	HOOD 2	FIELD WRAPPER 6.00' HIGH FRONT, LEFT, RIGHT. BACKSPLASH 80.00' HIGH X 132.00' 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. INSULATION FOR BACK OF HOOD.

**PERFORATED SUPPLY PLENUM(S)**

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	
1	HOOD 1	Front	156'	14'	6'	MUA	12"	28"		700	0.185"
						MUA	12"	28"		700	0.185"
						MUA	12"	28"		700	0.185"

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

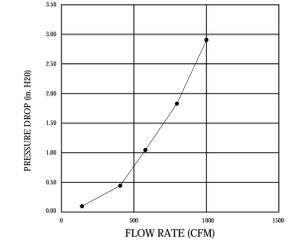
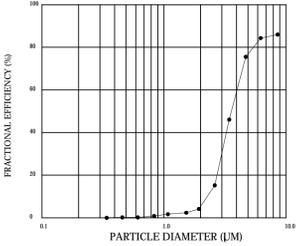
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96  
NSF  
UL 710 & ULC710 STANDARDS  
E.T.L. LISTED 3054804-001

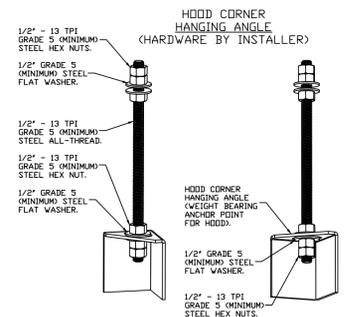
\*FOR QUESTIONS\*  
CONTACT: JOE WYLIE  
NORTH CAROLINA REGIONAL OFFICE  
PHONE: (919) 825-3566  
EMAIL: REG36@CAPTIVEAIRE.COM FAX: (919) 227-5917

**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

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



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



**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.

ACCUREX IS A BID ALTERNATE. CONTACT ANTHONY BEHRENDT AT (414) 899-6664. IF THE ALTERNATE IS SELECTED THE CONTRACTOR IS RESPONSIBLE TO FIELD COORDINATE CHANGES FROM THE CAPTIVE AIRE PACKAGE IN THE FIELD.

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

**CAPTIVEAIRE**

Eastern North Carolina  
4641 Paragon Park Rd., Raleigh, NC, 27616  
PHONE: (919) 825-3566 FAX: (919) 227-5917  
EMAIL: reg36@captiveaire.com

HWY 55-(PROTO 3.1B)  
various locations,  
Raleigh, NC, 27617

DATE: 11/7/2022  
DWG.#: 5719764  
DRAWN BY: reg36  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 1

NATIONAL RESTAURANT DESIGNERS  
A DIVISION OF LHMT ASSOCIATES  
7208 ACC BLDG, 2ND FLOOR,  
RALEIGH, NC 27617  
PHONE: 919.244.0087 FAX: 919.244.9989

SHOP DRAWING FOR  
REFERENCE ONLY

PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401  
DRAWING: HOOD DETAILS

Revisions  
THRU ADDENDUM "D"  
11/21/2022

PROJECT DATE  
06/29/2023  
Drawn By  
Checked By

Sheet No.  
**M502**

**REVISIONS**

DESCRIPTION	DATE

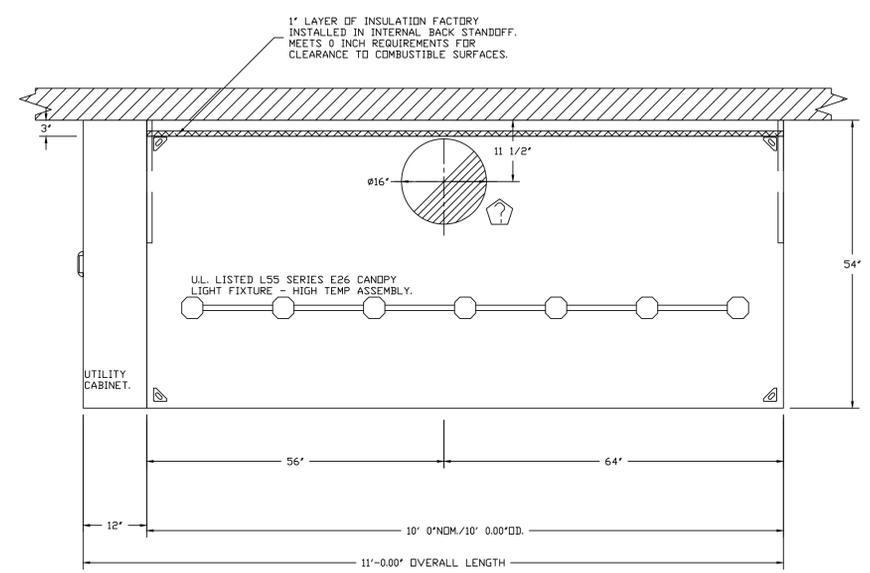
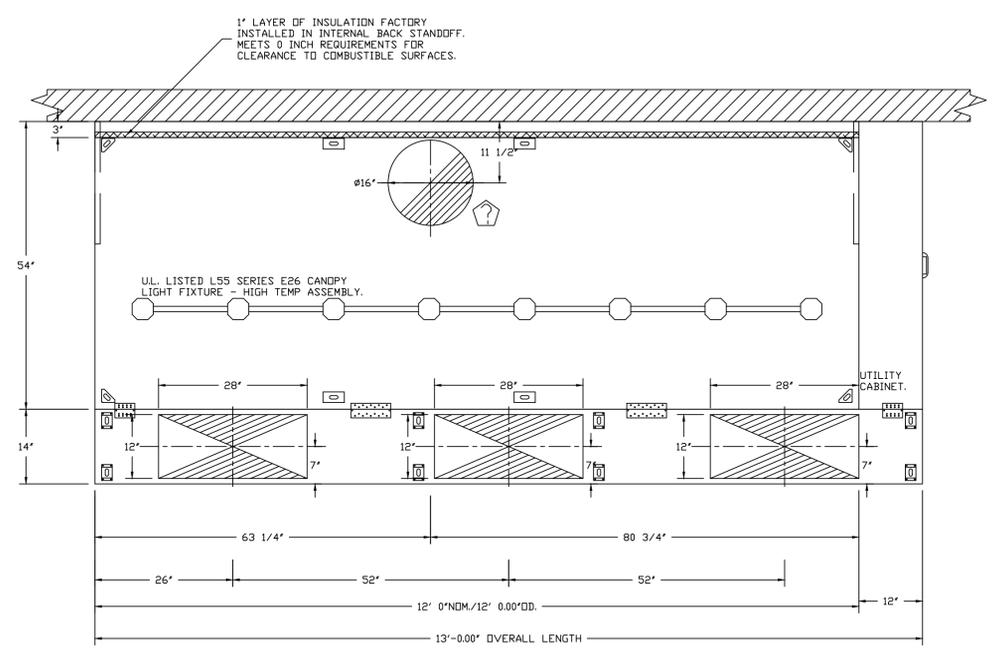
**CAPTIVE-AIRE**

Eastern North Carolina  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 825-3566 FAX: (919) 227-5917 EMAIL: reg36@captiveaire.com

HWY 55-(PROTO 3.1B)  
 various locations,  
 Raleigh, NC, 27617

DATE: 11/7/2022  
 DWG.#: 5719764  
 DRAWN BY: reg36  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

SHEET NO. 2



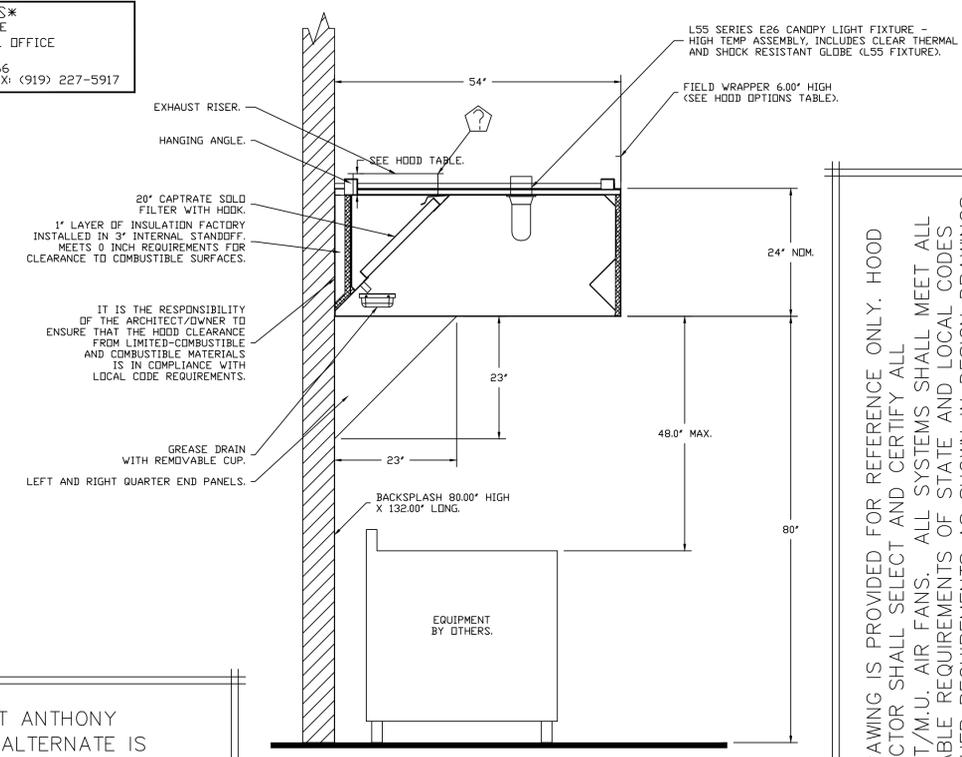
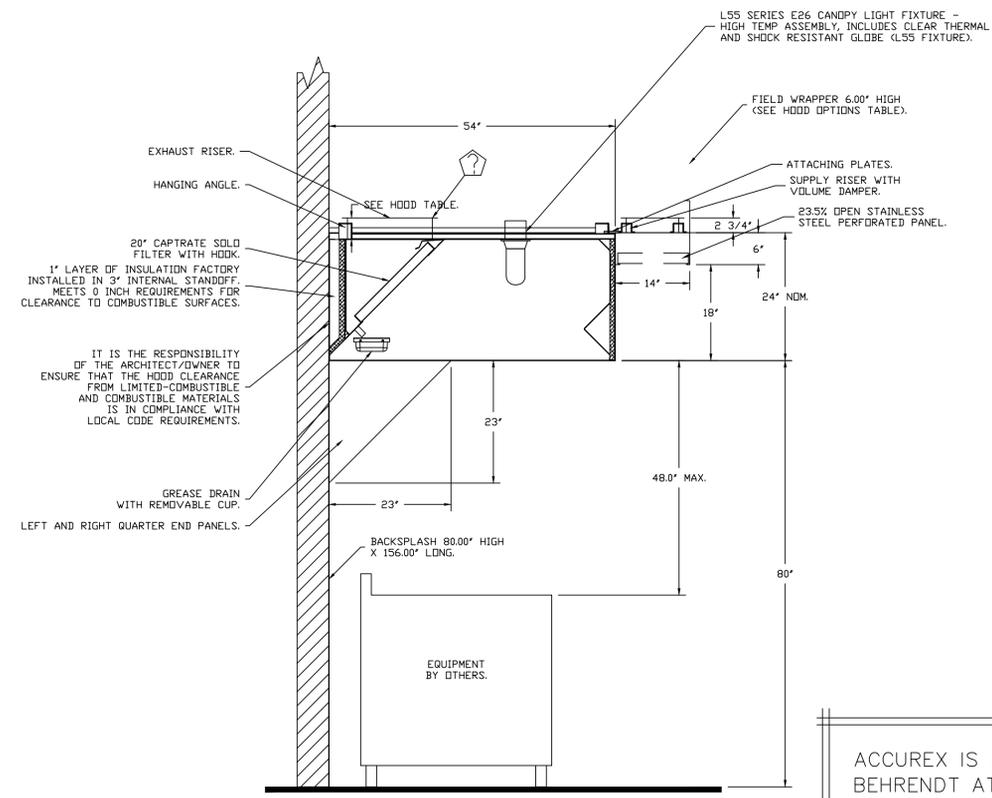
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NSF NSF ACCREDITED WITH NSF #96 ETL LISTED

NFPA #96  
 NSF  
 UL 710 & ULC710 STANDARDS  
 E.T.L. LISTED 3054804-001

\*FOR QUESTIONS\*  
 CONTACT: JOE WYLLIE  
 NORTH CAROLINA REGIONAL OFFICE  
 PHONE: (919) 825-3566  
 EMAIL: REG36@CAPTIVEAIRE.COM FAX: (919) 227-5917



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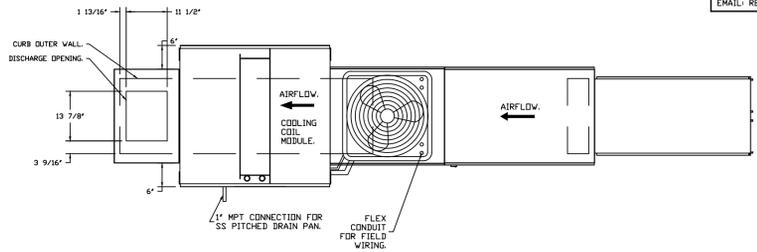




- FAN #4 AI-250-150-MPU - HEATER 0KSF-10
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
  2. INTAKE HEED WITH EZ FILTERS.
  3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
  4. GAS PRESSURE GAUGE - 2" TO 1/8" DIAMETER, 1/4" THREAD SIZE.
  5. GAS PRESSURE GAUGE - 2" TO 1/8" DIAMETER, 1/4" THREAD SIZE.
  6. 1/2" DIA. FLEX CONNECT TO ENGINE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION.
  7. 1/2" DIA. FLEX CONNECT TO ENGINE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION.
  8. 1/2" DIA. FLEX CONNECT TO ENGINE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION.
  9. 1/2" DIA. FLEX CONNECT TO ENGINE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION.
  10. 1/2" DIA. FLEX CONNECT TO ENGINE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION.
  11. 1/2" DIA. FLEX CONNECT TO ENGINE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION.
  12. 1/2" DIA. FLEX CONNECT TO ENGINE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION.
  13. 1/2" DIA. FLEX CONNECT TO ENGINE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION.
  14. 2 YEAR PARTS WARRANTY

**SUPPLY SIDE HEATER INFORMATION**

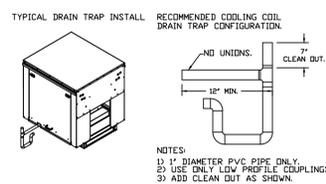
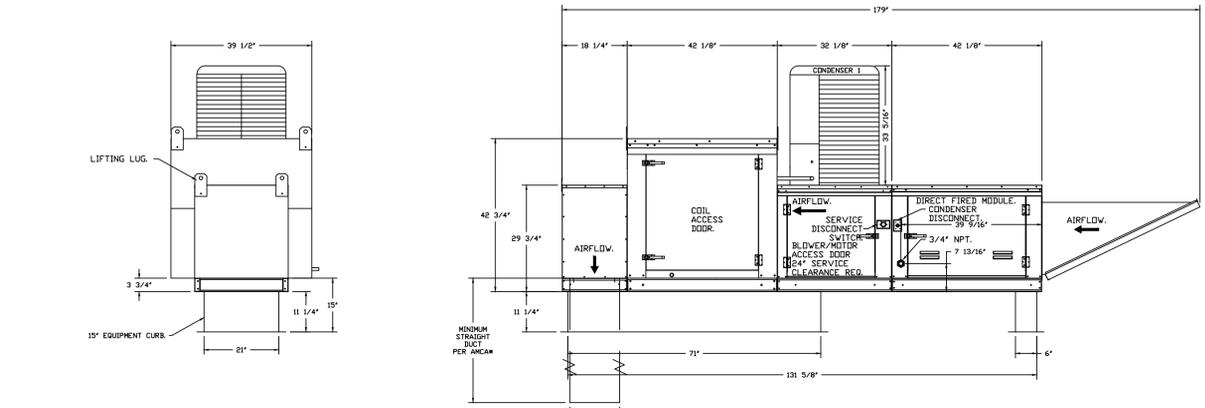
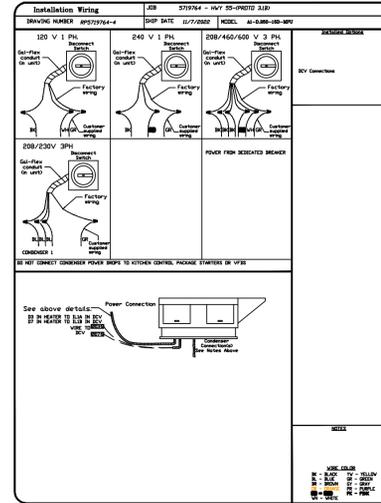
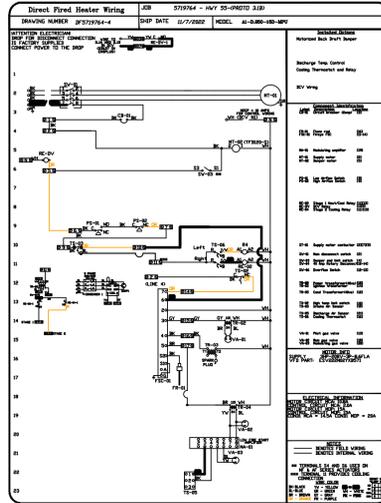
WINTER TEMPERATURE = 15°F. TEMP. RISE = 70°F.  
 BTU'S CALCULATED OFF ACTUAL AIR DENSITY.  
 OUTPUT BTU'S AT ALTITUDE OF 80 FT. = 161564.  
 INPUT BTU'S AT ALTITUDE OF 80 FT. = 175048.  
 OUTPUT BTU'S AT ALTITUDE OF 80 FT. = 16680.  
 INPUT BTU'S AT ALTITUDE OF 80 FT. = 175048.



CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:



\*FOR QUESTIONS\*  
 CONTACT: JOE WYLIE  
 NORTH CAROLINA REGIONAL OFFICE  
 PHONE: (919) 825-3566  
 EMAIL: REG36@CAPTIVEAIRE.COM FAX: (919) 227-5917



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

**DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY**

**DIRECT FIRED PROFILE PLATE SPECIFICATIONS**

**DESCRIPTION:**  
 PROFILE PLATE ASSEMBLY SHALL HAVE PATENTED GATE SYSTEM AND PRESSURE DROP ADJUSTMENT. PROFILE PLATE SHALL BE FORMED FROM 304 STAINLESS STEEL. PROFILE PLATE SHALL BE FORMED FROM 304 STAINLESS STEEL. PROFILE PLATE SHALL BE FORMED FROM 304 STAINLESS STEEL. PROFILE PLATE SHALL BE FORMED FROM 304 STAINLESS STEEL.

ACCUREX IS A BID ALTERNATE. CONTACT ANTHONY BEHRENDT AT (414) 899-6664. IF THE ALTERNATE IS SELECTED THE CONTRACTOR IS RESPONSIBLE TO FIELD COORDINATE CHANGES FROM THE CAPTIVE AIRE PACKAGE IN THE FIELD.

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**REVISIONS**

NO.	DESCRIPTION	DATE

**CAPTIVE AIRE**

Eastern North Carolina  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 825-3566 FAX: (919) 227-5917 EMAIL: reg36@captiveaire.com

PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401

DATE: 11/7/2022  
 DWG.#: 5719764  
 DRAWN BY: reg36  
 SCALE: 1/2" = 1'-0"  
 MASTER DRAWING

**SHEET NO.**  
 6

LHMT Project No. 23047.00

THIS DRAWING IS THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR USED WITHOUT THE WRITTEN PERMISSION.

**NATIONAL RESTAURANT DESIGNERS**  
 A DIVISION OF LHMT ASSOCIATES  
 7208 ACC BLVD, 2ND FLOOR,  
 FAYLEIGH, NC 27615  
 PHONE: 919.544.0087 FAX: 919.544.9089

SHOP DRAWING FOR  
 REFERENCE ONLY

PROJECT DATE  
 06/29/2023

Drawn By

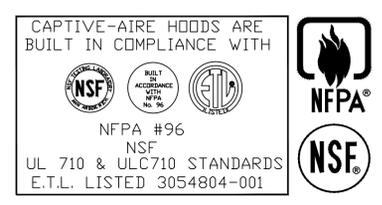
Checked By

Sheet No.  
**M507**

**DUCTWORK #1 PARTS - JOB#5719764**

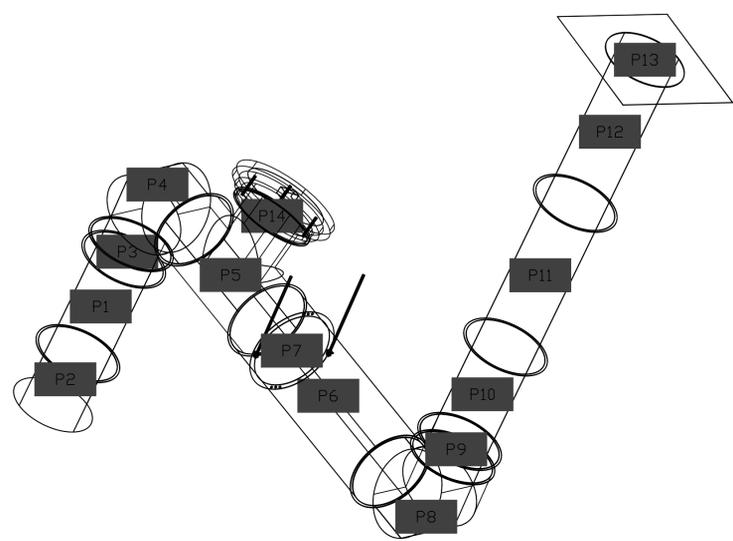
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1623LT						12.32		1	SINGLE WALL DUCT 16" DIAMETER, 23" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P2	DW1624AJDKIT						16.63		1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 23.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P3	DW1604C2D						2.73		1	SINGLE WALL DUCT OFF SET COLLAR - 16" DIAMETER DUCT - 1/2" PITCH.
P4	DW1690ASY						13.00		1	SINGLE WALL DUCT 90 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P5	DW16TEASY			1			19.23		1	SINGLE WALL DUCT TEE, 16" DUCT, ASSEMBLY.
P6	DW1647LT						24.89		1	SINGLE WALL DUCT 16" DIAMETER, 47" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P7	DW16SUBRASY						3.18		1	DUCT SUPPORT BRACKET KIT, 16" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2.
P8	DW1690ASY						13.00		1	SINGLE WALL DUCT 90 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P9	DW1604C2D						2.73		1	SINGLE WALL DUCT OFF SET COLLAR - 16" DIAMETER DUCT - 1/2" PITCH.
P10	DW1623LT						12.32		1	SINGLE WALL DUCT 16" DIAMETER, 23" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P11	DW1635LT						18.67		1	SINGLE WALL DUCT 16" DIAMETER, 35" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P12	DW1648AJDKIT						30.39		1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 47.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P13	DW2416TP						12.00		1	DUCT TO CURB TRANSITION, 24" CURB TO 16" DUCT, 16 GA ALUMINIZED. MISC. NON-STANDARD TRANSITION PLATE.
P14	DW1617ADIASY						16.57		1	DUCT ACCESS DOOR - INSULATED - USED WITH 16" DUCT - GREASE DAM INCLUDED - ASSEMBLY.
	3M-2000PLUS						0.80		4	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW16CLASY						1.18		12	DUCT *V* CLAMP WITH NEW DESIGN 14 GA BRACKETS, 16" DUCT, ASSEMBLY.
TOTAL WEIGHT							215.02			

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

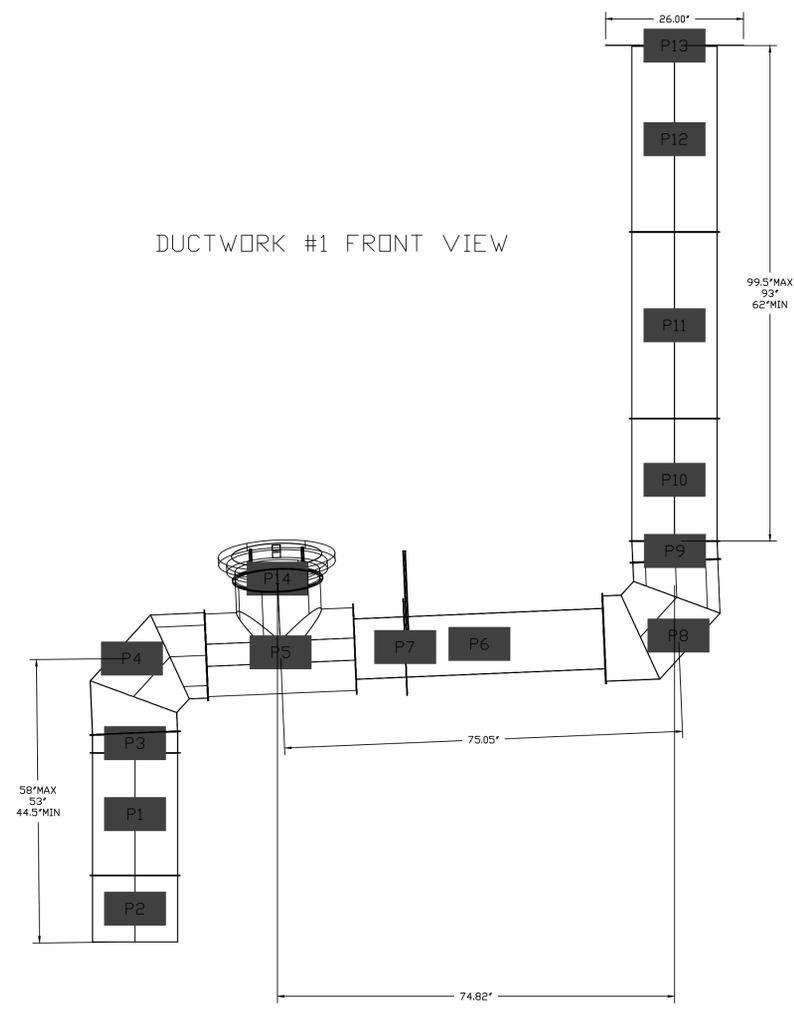


\*FOR QUESTIONS\*  
 CONTACT: JOE WYLIE  
 NORTH CAROLINA REGIONAL OFFICE  
 PHONE: (919) 825-3566  
 EMAIL: REG36@CAPTIVEAIRE.COM FAX: (919) 227-5917

DUCTWORK #1 SE VIEW



DUCTWORK #1 FRONT VIEW



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.

ACCUREX IS A BID ALTERNATE. CONTACT ANTHONY BEHRENDT AT (414) 899-6664. IF THE ALTERNATE IS SELECTED THE CONTRACTOR IS RESPONSIBLE TO FIELD COORDINATE CHANGES FROM THE CAPTIVE AIRE PACKAGE IN THE FIELD.

**REVISIONS**

NO.	DESCRIPTION	DATE

**CAPTIVE-AIRE**

Eastern North Carolina  
 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 825-3666 FAX: (919) 227-5917 EMAIL: reg36@captivaire.com  
 www.captivaire.com

HWY 55-(PROTO 3.1B)  
 various locations,  
 Raleigh, NC, 27617

DATE: 11/7/2022  
 DWG.#: 5719764  
 DRAWN BY: reg36  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

SHEET NO.  
 7

**REVISIONS**

NO.	DESCRIPTION	DATE

**CAPTIVE**  
 Eastern North Carolina  
 4641 Pategon Park Rd., Raleigh, NC, 27616 PHONE: (919) 925-3586 FAX: (919) 227-9817 EMAIL: reg36@captive.com

HWY 55-(PROTO 3.1B)  
 various locations,  
 Raleigh, NC, 27617

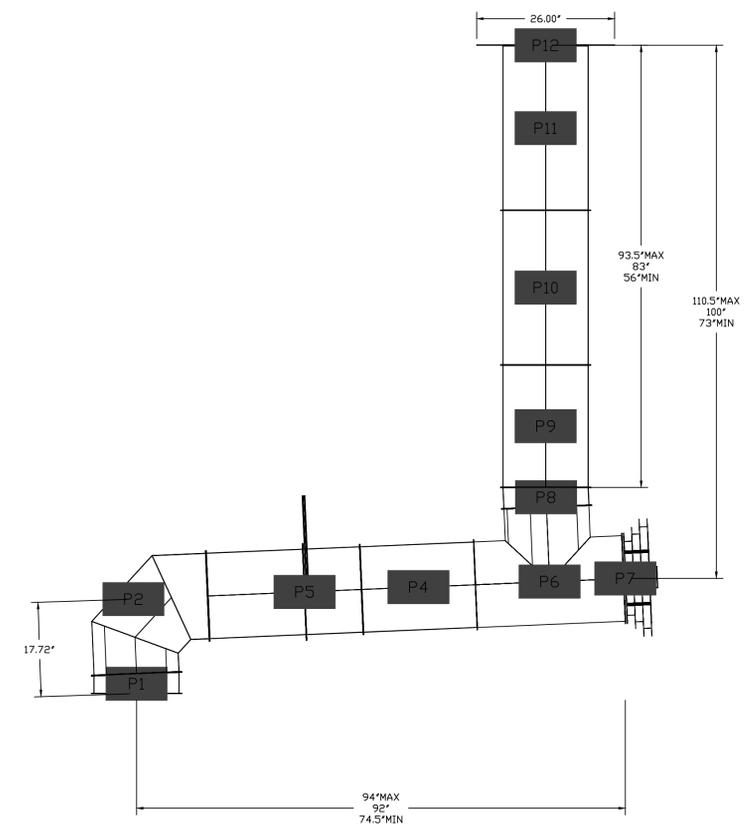
DATE: 11/7/2022  
 DWG.#: 5719764  
 DRAWN BY: reg36  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

**SHEET NO.**  
 8

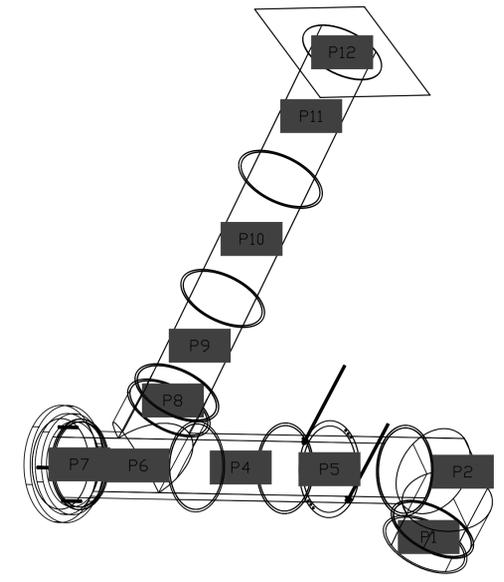
DUCTWORK #2 PARTS - JOB#5719764

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1604C2D						2.73		1	SINGLE WALL DUCT OFF SET COLLAR - 16" DIAMETER DUCT - 1/2" PITCH.
P2	DW1690ASY						13.00		1	SINGLE WALL DUCT 90 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P3	DW1629LT						15.68		1	SINGLE WALL DUCT 16" DIAMETER, 29" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P4	DW1630AJDKIT						20.06		1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 29.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P5	DW16SUBRASY						3.18		1	DUCT SUPPORT BRACKET KIT, 16" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2.
P6	DW16TEASY			1			19.23		1	SINGLE WALL DUCT TEE, 16" DUCT, ASSEMBLY.
P7	DW1617ADIASY						16.57		1	DUCT ACCESS DOOR - INSULATED - USED WITH 16" DUCT - GREASE DAM INCLUDED - ASSEMBLY.
P8	DW1604C2D						2.73		1	SINGLE WALL DUCT OFF SET COLLAR - 16" DIAMETER DUCT - 1/2" PITCH.
P9	DW1623LT						12.32		1	SINGLE WALL DUCT 16" DIAMETER, 23" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P10	DW1629LT						15.68		1	SINGLE WALL DUCT 16" DIAMETER, 29" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P11	DW1648AJDKIT						30.39		1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 47.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P12	DW2416TP						12.00		1	DUCT TO CURB TRANSITION, 24" CURB TO 16" DUCT, 16 GA ALUMINIZED. MISC. NON-STANDARD TRANSITION PLATE.
	3M-2000PLUS						0.80		4	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW16CLASY						1.18		10	DUCT 'V' CLAMP WITH NEW DESIGN 14 GA BRACKETS, 16" DUCT, ASSEMBLY.
TOTAL WEIGHT							178.57			

DUCTWORK #2 SIDE VIEW



DUCTWORK #2 SE VIEW



ACCUREX IS A BID ALTERNATE. CONTACT ANTHONY BEHRENDT AT (414) 899-6664. IF THE ALTERNATE IS SELECTED THE CONTRACTOR IS RESPONSIBLE TO FIELD COORDINATE CHANGES FROM THE CAPTIVE AIRE PACKAGE IN THE FIELD.

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.



DIVISION 15 — MECHANICAL

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 Tenant 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 Trane or Lennox or Carrier 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 sealed 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 contactors 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 contactors 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.
  - 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 Electrical Contractor. 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 Tenant. 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 Tenant. 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. EC 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.

SECTION 15500 — HEATING, VENTILATING, AND AIR CONDITIONING (continued)

- 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 hoods #1,2: Factory built round grease duct provided by the Tenant, installed by MC. 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 to provide velocity of 1500 FPM min.
  - 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 Metal-Aire, Nailor, or Titus. 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 5.5 or greater per ASTM C177-71.
  - A. 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
  - A. 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 5.0 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) MC 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 desired 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 Contractor in the adjustment of 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 hood test and balance services and reports, contact: CaptiveAire, Raleigh, North Carolina, Phone: (919) 757-2820.

LHMT Project No. 23047.00

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NATIONAL RESTAURANT DESIGNERS  
A DIVISION OF LHMT ASSOCIATES  
7208 ACC BLVD, 2ND FLOOR,  
RALEIGH, NC 27617  
Phone: 919.244.0287 Fax: 919.244.9399

STATE OF LOUISIANA  
NELSON RAY HORTON JR.  
REG. NO. 10000  
REGISTERED PROFESSIONAL ENGINEER  
MECHANICAL ENGINEERING  
IN 7/17/23

PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401

DRAWING: **MECHANICAL SPECIFICATIONS**

Revisions	
THRU ADDENDUM "D"	11/21/2022

PROJECT DATE  
06/29/2023

Drawn By  
RJB

Checked By  
NRT

Sheet No.  
**M701**

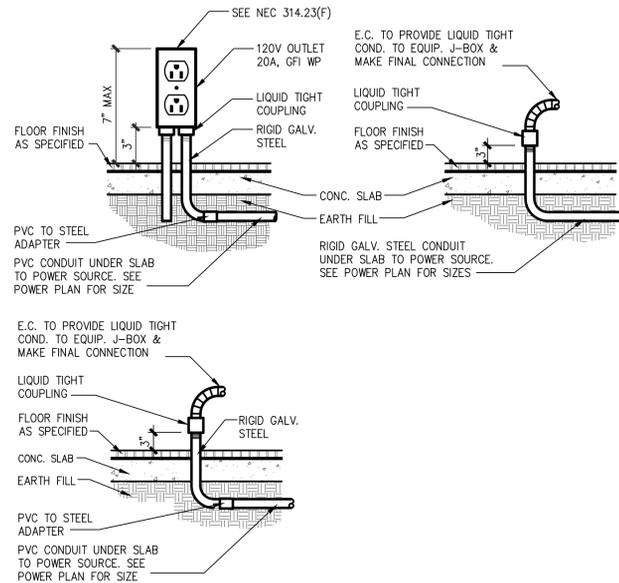
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 Plotted Date: Jun 29, 2023 - 2:56pm

GENERAL NOTES

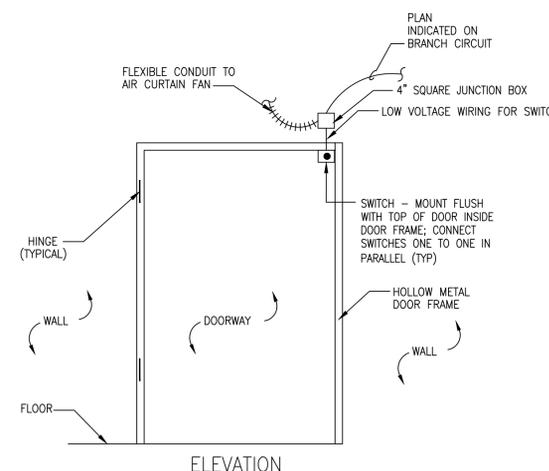
- ANY DEVIATIONS FROM THE DESIGN PLANS SHALL ONLY BE PERFORMED IF APPROVED BY THE LL'S/TENANT'S REPRESENTATIVE, THE DESIGN ENGINEER, AND THE LOCAL INSPECTOR. ALL WORK SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. HOWEVER, ANY DEVIATION FROM THE DESIGN PLANS IMPLIED BY LOCAL CODES THAT SUGGESTS INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THE DESIGN PLANS SHALL NOT BE ALLOWED WITHOUT APPROVAL BY THE LL'S/TENANT'S REPRESENTATIVE OR THE DESIGN ENGINEER. ANY UNAPPROVED DEVIATION FROM THE DESIGN PLANS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR, CONTRACTOR SHALL INSTALL COMPLETE AND WORKING SYSTEMS, EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MINIMUM REQUIREMENTS SHOWN IN THESE PLANS.
- ALL BRANCH CIRCUITS SHALL BE IN ZINC-COATED EMT OR RIGID CONDUIT AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. MC CABLE IS APPROVED. HOWEVER, ALL WIRING EXPOSED TO CUSTOMER VIEW SHALL BE IN EMT OR RIGID CONDUIT. SCHEDULE 40 PVC CONDUIT IS APPROVED FOR SECONDARY UNDERGROUND SERVICE, UNDERGROUND TELEPHONE SERVICE, INCLUDING TELEPHONE BRANCH CIRCUIT CONDUIT LOCATED BELOW SLAB-ON-GRADE, BURIED ON BUILDING EXTERIOR, OR IN CONCRETE BLOCK WALLS. ALL CONDUIT SHALL BE 1/2" MINIMUM SIZE.
- ALL CONDUCTORS SHALL BE COPPER, THHN/THWN, UNLESS OTHERWISE NOTED.
- EC SHALL REVIEW "O" SHEETS FOR ALL EQUIPMENT CONNECTION REQUIREMENTS. ALL EQUIPMENT LOADS SHALL BE VERIFIED BEFORE EQUIPMENT AND/OR CIRCUIT INSTALLATION. VERIFY LOCATION OF ALL FLOOR OUTLETS BEFORE INSTALLATION.
- E.M.T. FITTINGS SHALL BE HEXAGONAL ALL STEEL COMPRESSION TYPE.
- THROUGH-OUT THESE SHEETS, REFERENCES TO CONDUIT/CONDUCTOR FILL ARE BASED ON E.M.T. TYPE CONDUIT AND THHN/THWN TYPE CONDUCTOR. FOR ANY OTHER TYPE MATERIALS, EC SHALL ADJUST CONDUCTOR FILL/CONDUIT SIZE TO REMAIN FULLY COMPLIANT WITH NEC.
- RECEPTACLES SHALL BE WHITE WITH WHITE PLATES; BRYANT, HUBBELL, LEVITON BRANDS EXCEPT AS OTHERWISE SPECIFIED.
- ELECTRICAL COVER PLATES IN ALL KITCHEN AND SERVING AREAS SHALL BE STAINLESS STEEL.
- ALL WALL OUTLET BOXES SHALL BE STEEL CITY OR RACO.
- MOUNT ALL RECEPTACLES 18" ABOVE FINISHED FLOOR TO CENTER OF BOX UNLESS OTHERWISE NOTED.
- DUPLEX AND DOUBLE DUPLEX RECEPTACLES FOR P.O.S. SYSTEM (ISOLATED GROUND RECEPTACLES) SHALL NOT SHARE CONDUIT WITH ANY "NORMAL POWER" DEVICES. ISOLATED GROUND RECEPTACLES SHALL BE "ORANGE" IN COLOR.
- EXHAUST FAN WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT FOR ALL THERMOSTATS AND TELEPHONE OUTLETS, UNLESS OTHERWISE NOTED OR INSTRUCTED.
- WHERE THE LENGTH OF ANY 120 VOLT BRANCH CIRCUIT EXCEEDS 50 FEET, CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #10 TO THE FIRST OUTLET. WHERE THE LENGTH OF ANY 120 VOLT BRANCH CIRCUIT EXCEEDS 100 FEET, CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #8 TO THE FIRST OUTLET.
- ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR APPROVED FLOOR PLAN AND DIMENSIONS. DO NOT SCALE FROM THE ELECTRICAL DRAWINGS. ANY INCORRECT WORK DUE TO SCALING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- INSTALL CONDUITS AND WIRING FOR YARD LIGHTS, BUILDING SIGNS, AND POLE SIGNS AS SHOWN ON THE SITE PLAN. COORDINATE VOLTAGE DROP AS REQUIRED. EC SHALL CONFIRM THAT THE TRENCHES PROVIDED CONFORM WITH NEC 300.5 BEFORE LAYING ANY CONDUIT.
- MECHANICAL CONTROL WIRING IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. MC SHALL MAKE ALL FINAL CONNECTIONS. SEE MECHANICAL PLANS FOR PROPER OPERATIONAL SEQUENCES AND COORDINATE WORK WITH THE HOOD CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL ELECTRICAL DEVICES, I.E., OUTLETS, JUNCTION BOXES, DISCONNECTS, AND HOOD LIGHTS, ETC. UNDER EACH KITCHEN GREASE EXHAUST HOOD TO SHUNT TRIP CIRCUIT BREAKERS CONTROLLED BY THE HOOD FIRE PROTECTION SYSTEM SO THAT WHEN THE FIRE PROTECTION SYSTEM IS ACTIVATED ALL ELECTRICAL DEVICES UNDER HOOD WILL BE DE-ENERGIZED. EMERGENCY GAS VALVE (ELECTRICALLY OPERATED) SHALL ALSO BE CLOSED WHEN FIRE PROTECTION SYSTEM IS ACTIVATED IN ORDER TO ISOLATE GAS SUPPLY TO APPLIANCES UNDER THE HOOD, SEE "P" SHEETS.
- JUNCTION BOXES: 4" X 2 1/8" OCTAGONAL OR 4" X 1 1/2" SQUARE MIN. USE 4" X 2 1/8" SQUARE WHERE 3 OR 4 LIGHTING FIXTURE WHIPS ARE SPLICED INTO ONE BOX, REC/SWITCH GANG BOXES SHALL BE 3 1/2" DEEP.
- MINIMUM CIRCUIT SIZE SHALL BE (2) #12, (1) #12 GRD., 1/2" CONDUIT - UNLESS NOTED OTHERWISE.
- EC SHALL COORDINATE ALL REQUIREMENTS OF SOUND SYSTEM WITH LL/TENANT AND SYSTEM VENDOR.
- CIRCUITS SHOWN ARE DIAGRAMMATIC. EC SHALL DETERMINE THE MOST EFFICIENT ROUTING OF CONDUIT IN FIELD.
- WALL SWITCHES WILL CONTROL CIRCUIT NUMBER AS SHOWN UNLESS NOTED OTHERWISE, SEE LIGHTING PLAN, AND "SWITCH BANK ELEVATIONS".
- LIGHTING FIXTURES IN AREAS WHERE FOOD IS PREPARED, OPEN FOOD IS STORED, OR WHERE UTENSILS ARE CLEANED SHALL HAVE A SHATTERPROOF LENS AND BE READILY CLEANABLE.
- LIGHTING INTENSITY SHALL NOT BE LESS THAN 50 FOOT CANDLES AT ALL FOOD PREP AND SERVING SURFACES AND AT ANY SURFACE WHERE A FOOD EMPLOYEE IS WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR. EC SHALL VERIFY PRIOR TO HEALTH DEPARTMENT INSPECTION.
- DRY FOOD STORAGE AND WALK-IN REFRIGERATION STORAGE SHALL NOT BE LESS THAN 10 FOOT CANDLES, AT +30" ABOVE FLOOR.
- LIGHTING INTENSITY SHALL NOT BE LESS THAN 20 FOOTCANDLES:
  - AT A SURFACE WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVE SUCH AS BUFFETS AND SALAD BARS OR WHERE FRESH PRODUCE OR PACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION;
  - INSIDE EQUIPMENT SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS;
  - AT A DISTANCE OF THIRTY INCHES ABOVE THE FLOOR IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS.
- DUCTWORK, CONDUIT AND PIPING IN EXPOSED CEILING PUBLIC AREAS SHALL BE INSTALLED BETWEEN TRUSSES OR THROUGH TRUSSES WITH ALL ITEMS LOCATED ABOVE THE BOTTOM OF THE STRUCTURE UNLESS OTHERWISE NOTED ON THE PLAN.
- ALL WIRING IN ASSEMBLY AREAS SHALL CONFORM TO NEC 518.
- ALL EXPOSED CONDUIT SHALL BE INSTALLED AT LEAST 6" OFF THE FLOOR AND 2" AWAY FROM THE WALL TO FACILITATE CLEANING.
- EC SHALL PROVIDE LL/TENANT WITH COMPLETE SET OF ELECTRICAL AS-BUILT DRAWINGS SHOWING ALL DEVIATIONS FROM ORIGINAL DESIGN WITHIN 30 DAYS OF ACCEPTANCE.
- EC SHALL PROVIDE LL/TENANT WITH OPERATIONS & MAINTENANCE MANUAL(S) FOR ALL ELECTRICAL SYSTEMS AND EQUIPMENT WITHIN 30 DAYS OF ACCEPTANCE.
- EC SHALL TEST ALL LIGHTING SYSTEMS TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMMING AND OPERATION.
- EC SHALL KEEP OVERHEAD CONDUIT HIGH TO REDUCE CONFLICTS WITH DUCTWORK.

ELECTRICAL LEGEND

- ⊕ DUPLEX WALL RECEPTACLE - 120/1P, 20 AMP RATED
- ⊖ SIMPLEX RECEPTACLE - 120/1P, 20 AMP RATED
- ⊕ 208V RATED - 1 PHASE OR 3 PHASE RECEPTACLE TO MATCH EQUIPMENT SERVED.
- ⊕ IG ISOLATED GROUND RECEPTACLE, ORANGE FACE.
- ⊕ USB DUPLEX WALL RECEPTACLE W/ TWO USB CHARGING PORTS - 120/1P, 20 AMP RATED
- ⊕ JUNCTION BOX, SIZE AND USE AS REQUIRED; COVER PLATE SHALL OVERLAP THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALED WIRING.
- ⊕ QUAD WALL RECEPTACLE - 120/1P, 20 AMP RATED
- ⊕ CEILING MOUNTED DUPLEX RECEPTACLE - 120/1P, 20 AMP RATED
- ⊕ CEILING MOUNTED QUAD RECEPTACLE - 120/1P, 20 AMP RATED
- ⊕ POWER DROP TO EQUIPMENT. EC SHALL VERIFY REQUIREMENTS PER EQUIPMENT.
- ⊕ FUSED DISCONNECT SWITCH, HEAVY DUTY "HP" RATED, PROVIDE WEATHERPROOF COVER OUTDOORS.
- ⊕ DATA WALL OUTLET - RUN 3/4" EMT TO ACCESSIBLE POINT ABOVE CEILING. PROVIDE PULL WIRE.
- ⊕ SPECIAL RECEPTACLE TO MATCH EQUIPMENT SERVED.
- ⊕ DOOR BELL WITH TRANSFORMER.
- ⊕ MOTOR RATED SWITCH
- ⊕ ANALOG TIMER
- ⊕ DOOR BELL PUSH BUTTON
- ⊕ HOOD ANNUNCIATOR/ALARM - AUDIO AND VISUAL ALARM
- ⊕ HOME RUNS TO PANEL
- ⊕ CONDUIT - EXPOSED OR CONCEALED IN WALL
- ⊕ CONDUIT BELOW SLAB
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- EC ELECTRICAL CONTRACTOR
- MC MECHANICAL CONTRACTOR
- PC PLUMBING CONTRACTOR
- WP WEATHER PROOF
- WR WEATHER RESISTANT
- CLG. CEILING MOUNTED
- ⊕ SPEAKERS - FOR REFERENCE ONLY. PROVIDED AND INSTALLED BY VENDOR.
- ⊕ JUNCTION BOX, SIZE AND USE AS REQUIRED; COVER PLATE SHALL OVERLAP THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALED WIRING.
- ⊕ WALL SWITCH; SINGLE POLE UNLESS NOTED 3- OR 4-WAY; "P" INDICATES EQUIPPED WITH PILOT LIGHT TO INDICATE WHEN SWITCH IS ON; W.P. INDICATES WEATHERPROOF, "K" INDICATES KEY OPERATED SWITCH; +48" ABOVE FLOOR EXCEPT IN MASONRY WALLS WHERE HEIGHT SHALL BE ADJUSTED TO HAVE BOX EDGE OCCUR AT A MASONRY JOINT. "D" INDICATES "DIMMER". "OS" INDICATES "OCCUPANCY SENSOR" (LUTRON MAESTRO MS-OPS2-WH).



1 CONDUIT STUB UP DETAIL  
E000 SCALE: NTS



2 AIR CURTAIN SWITCH DETAIL  
E000 SCALE: NTS

LHMT Project No. 23047.00  
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NATIONAL RESTAURANT DESIGNERS  
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PROJECT: HIGHWAY 55  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401  
DRAWING: ELECTRICAL NOTES

Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CD
Checked By	NRT
Sheet No.	E000

Drawing File: C:\Users\chudson\appdata\local\temp\AcP\publish\_6196\E000.dwg  
Plotted by: chudson  
Plotted Date: Jun 29, 2023 - 2:54pm

**GENERAL NOTES**

**CONSTRUCTION NOTES**

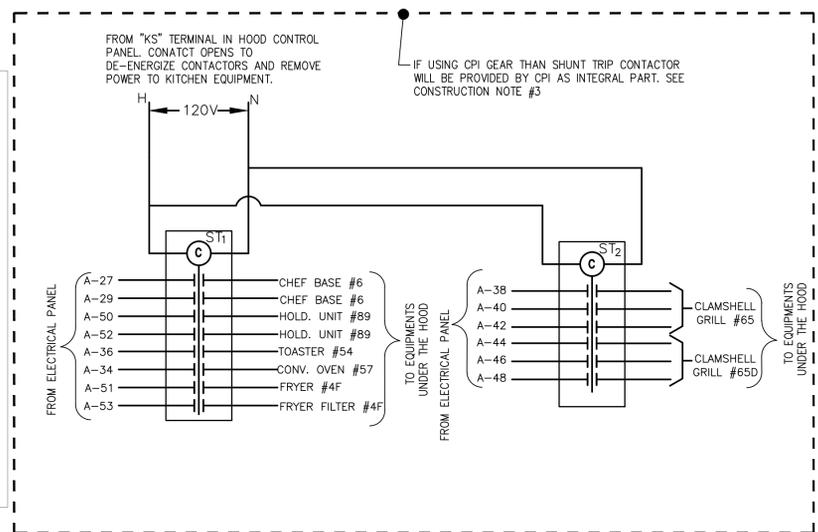
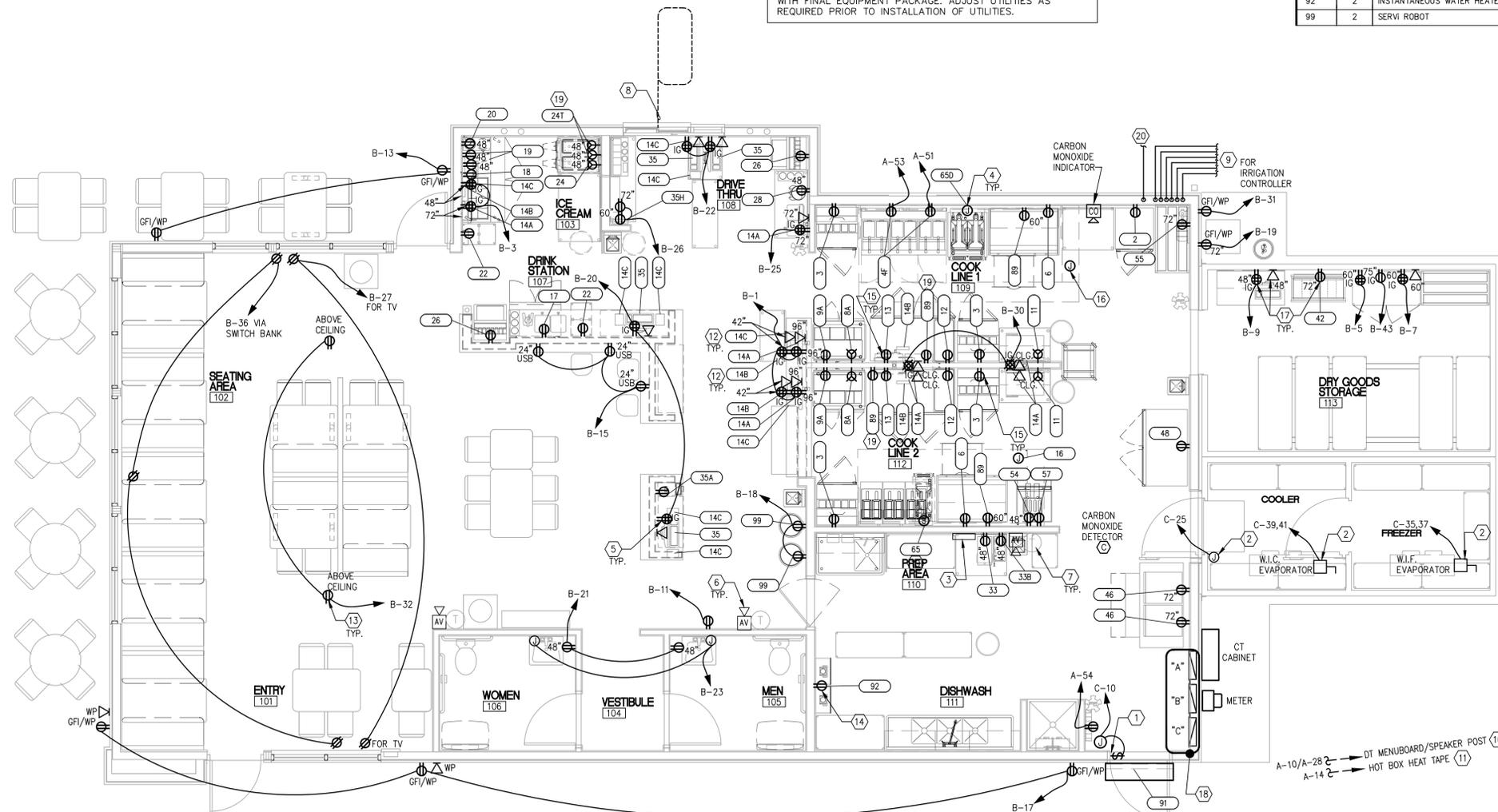
**ELECTRICAL SCHEDULE**

- EC SHALL PROVIDE GFI BREAKERS FOR ALL SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50A OR LESS. FOR THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100A OR LESS IN THE KITCHEN AND SERVING AREAS TO COMPLY WITH NEC 210.8.B.2. EC SHALL NOT USE GFI OUTLETS, UNLESS OTHERWISE NOTED. COORDINATE WITH PANEL SCHEDULES.
- EC SHALL PROVIDE 150A PANEL FOR TEMPORARY POWER DURING CONSTRUCTION WITH GFI PROTECTION AS REQUIRED.
- REFER TO EQUIPMENT SCHEDULE FOR CIRCUITS, RECEPTACLE TYPES AND POWER CORD REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL REFER TO "Q" SHEETS FOR INFORMATION PERTAINING TO REQUIREMENTS FOR FOOD SERVICE EQUIPMENT.
- EC SHALL PROVIDE LABEL FOR ALL EQUIPMENT SPECIFIC RECEPTACLES.
- ALL P.O.S., KIOSK, AND CBT SYSTEMS SHALL HAVE AN ISOLATED GROUND OUTLET.
- EC SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS PER NEC 110.16.
- EC SHALL COORDINATE THE ELECTRICAL CONNECTION WITH THE EQUIPMENT SERVED. CONTACT ENGINEER FOR CLARIFICATION OF ANY EQUIPMENT PRIOR TO INSTALLATION, IF REQUIRED.

- ELECTRICAL CONTRACTOR TO INSTALL 1/2 HP 120V SNAP ACTION SWITCH TO ACTIVATE AIR CURTAIN FAN (MOUNT IN DOOR FRAME) J-BOX AND MOTOR SWITCH FURNISHED WITH AIR CURTAIN. SEE DETAIL ON SHEET E000.
- ALL CONDUITS ENTERING FREEZERS OR COOLERS SHALL BE INSTALLED WITH SEALS AND EXPANSION FITTINGS IN ACCORDANCE WITH NEC 300.7. EC SHALL PROVIDE NEMA 3R DISCONNECTS FOR WALK-IN EVAPORATORS. VERIFY EXACT POWER REQUIREMENTS AND FINAL LOCATION PRIOR TO ROUGH-IN.
- IF NOT USING CPI GEAR THAN INSTALL SHUNT TRIP CONTACTOR HIGH ON WALL. EC SHALL WIRE 2-#12, 1/2" C. SHUNT CONTROL FROM HOOD CONTROL PANEL TO SHUNT TRIP CONTACTOR TO DE-ENERGIZE CIRCUIT UPON ACTIVATION OF MANUAL PULL STATION, OR DETECTION BY SENSORS WITHIN THE HOOD. SEE HOOD SHEETS AND DETAIL 2/E111. IF USING CPI GEAR THAN SHUNT TRIP CONTACTOR WILL BE PROVIDED BY CPI AS INTEGRAL PART.
- PERMANENTLY CONNECTED EQUIPMENT SHALL BE PROVIDED WITH A LOCKABLE BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION IN ACCORDANCE WITH NEC 422.31(B). EXTEND LIQUIDTIGHT FLEXIBLE METAL CONDUIT FROM JUNCTION BOX TO EQUIPMENT, AS REQUIRED.
- RECEPTACLE SHOWN SHALL BE INSTALLED IN CABINET OF SERVING COUNTER. GENERAL CONTRACTOR SHALL DRILL HOLES IN BOTTOM AND TOP OF COUNTER (REMOVE ALL BURRS AND PAINT THE PENETRATION) FOR CONDUIT STUB-UP AND CORD EXTENSIONS FROM APPLIANCE TO RECEPTACLE.
- AUDIO/VISUAL DEVICES FURNISHED BY HVAC SUPPLIER & INSTALLED BY EC 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.
- EC SHALL PROVIDE 3/4" C WITH PULLSTRING TO ABOVE CEILING AND OUTLET BOXES FOR T-STATS, SENSORS AND OVER RIDE BUTTONS. LOW VOLTAGE CONTROL WIRING BY MC. MOUNT ON S/S COVER PLATE. COORDINATE MOUNTING HEIGHT WITH MC PRIOR TO ROUGH-IN. SEE MECHANICAL DRAWINGS.
- (1) 1" CONDUIT FOR DETECTOR LOOP. VERIFY EXACT REQUIREMENTS AND LOCATION WITH DRIVE THRU SYSTEM INSTALLER PRIOR TO ROUGH IN.
- EC SHALL PROVIDE (3) 1" CONDUITS WITH PULL WIRE FROM JUNCTION BOX TO DRIVE-THRU MENU BOARD FOR EACH LOCATION. (1) 1" CONDUIT FOR SPEAKER, (1) 1" CONDUIT FOR ELECTRICAL POWER IN MENU BOARD, AND (1) 1" CONDUIT DETECTOR LOOP. EC SHALL VERIFY ELECTRICAL REQUIREMENTS FOR MENU BOARD AND MAKE FINAL CONNECTIONS. ALL CONDUITS SHALL BE CONCEALED WITHIN WALL FRAMING.
- SEE ARCHITECTURAL AND CIVIL SHEETS FOR DRIVE THRU MENU BOARD DETAILS. EC TO COORDINATE AND EXTEND WIRING TO ACTUAL LOCATION SHOWN ON CIVIL DRAWINGS.
- SEE CIVIL SHEETS FOR HOT BOX LOCATION. EC TO COORDINATE AND EXTEND WIRING TO ACTUAL LOCATION SHOWN ON CIVIL DRAWINGS.
- PROVIDE RECEPTACLE AND 2-GANG DATA BOXES WITH CONDUIT FOR TV, BUMP BAR AND PRINTER. VERIFY EXACT LOCATION AND MOUNTING REQUIREMENTS WITH LL/TENANT AND LL'S/TENANT'S VENDOR PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL RECEPTACLE AND DATA AS REQUIRED.
- PROVIDE RECEPTACLE ABOVE CEILING. VERIFY EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH IN.
- COORDINATE MOUNTING HEIGHT REQUIREMENTS FOR WATER HEATER WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
- EC SHALL RUN POWER AND DATA CONDUITS FROM NEAREST FULL HEIGHT WALL TO LOW HEIGHT WALL.
- EC SHALL PROVIDE 120V INTERLOCK WIRING BETWEEN HOOD CONTROL PANEL AND ANSUL SYSTEM. REFER TO HOOD SHOP DRAWINGS. COORDINATE EXACT REQUIREMENT WITH HOOD INSTALLER.
- EC SHALL SURFACE MOUNT RECEPTACLES AND DATA IN PREFAB WALK-IN BOX.
- EC SHALL PROVIDE ALTERNATIVE BID TO USE UNUTILIZED CPI POWER DISTRIBUTION SYSTEM IN LIEU OF LOOSE ELECTRICAL PANELS. REFER TO SHEET E601 FOR MORE INFORMATION.
- OPTIONAL EQUIPMENT - EC TO VERIFY/COORDINATE FINAL EQUIPMENT PACKAGE PRIOR TO INSTALLING UTILITIES OR CONNECTING EQUIPMENT.
- EC SHALL PROVIDE (1) 1" CONDUIT WITH PULL WIRE TO DUMPSTER ENCLOSURE. SEE SHEET ES111.

ITEM	QTY.	DESCRIPTION	CIRCUIT #	VOLT	PHASE	AMPS	HP	ELECTRICAL REMARKS
2	1	1-DOOR FREEZER	A-15	115	1	3.2	1/3	
3	4	REFRIG. PREPBOX - 29"W	A-17/19/21/23	115	1	7	1/5	
4F	1	3-BANK FRYER	A-51/A-53	120	1	10.4/8.0		
6	2	REFRIG. CHEFBASE - 48"W	A-27/A-29	115	1	5.4	1/5	
8A	2	WARMING STATION	A-31,33/A-35,37	120/208	1	14.2		NEMA L14-20P
9A	2	WORKTOP FREEZER	A-39/A-41	115	1	5.7	1/3	
11	2	STEAMER	B-35,37/B-39,41	208	1	15.9		NEMA 6-20P
12	2	COOKER/WARMER	B-29/B-34	120	1	15.0		
13	2	REFRIG. PREPBOX - 60"W - 5" CASTERS	A-16/A-25	115	1	4.0	1/4	
14A	7	MONITOR	B-1/B-3/B-30/B-25	120	1	-		
14B	5	BUMPBAR	B-1/B-3/B-30	120	1	-		
14C	9	PRINTER	B-1/3/20/22	120	1	-		
16	2	HOOD SYSTEM	C-19	120	1	-		REFER TO HOOD SHOP DRAWINGS
17	1	REFRIG. PREPBOX - 36"W	B-14	115	1	2.0	1/6	
18	1	REFRIG. PREPBOX	A-18	115	1	6.5	1/3	
19	2	MIX-IN BLENDER	A-20/A-32	115	1	2.1	3/4	
20	1	COOKER/WARMER	A-22	120	1	8.3		
22	2	DIPPING CABINET	B-2/B-28	115	1	1.4	1/8	
24	1	FROZEN CUSTARD MACHINE	A-24,26	208	1	15.0	1 1/2	NEMA 6-20P
24T	1	OPTIONAL FROZEN CUSTARD MACHINE	A-43,45/47,49	208	1	24/22	(2)	(2) NEMA 6-30P
26	2	SODA MACHINE	B-4/B-6	120	1	1.0		
28	1	ELEC. JUICE DISPENSER	B-10	120	1	3.0		
33	1	COFFEE/TEA BREWER	B-8	120	1	14.0		
33B	1	COFFEE BREWER	B-12	120	1	15		
35	4	POS TERMINAL SYSTEM	B-20/B-22	120	1	.37		
35A	1	DROP SAFE - UNDERCOUNTER	A-30	120	1	-		
35H	1	DT HEADSET BASE STATION	B-26	120	1	5.0		
42	1	MODULAR BIB RACK	B-33	120	1	1.5		
46	2	ICE MACHINE W/ FLAKER HEAD	C-11/C-13	115	1	11.8		
47C	1	OUTSIDE WALK-IN COOLER (BUILT W/#47F)	C-39,41/C-38,40,42	208	3/1	5/2.9		
47F	1	OUTSIDE WALK-IN FREEZER (BUILT W/#47C)	C-35,37/C-32,34,36	208	3/1	5/2.9		
48	1	2-DOOR COOLER	B-16	115	1	9	1/2	
54	1	TOASTER - 4 SLOT	A-36	120	1	15.0		
55	1	WATER FILTRATION SYS. W/BOOSTER PUMP	C-12	120	1	0.08		
57	1	CONVECTION OVEN W/TABLE	A-34	120	1	13.3		
65	1	OPTIONAL ELECTRIC 12" CLAMSHELL GRILL	A-38,40,42	208	3	26.2		
65D	1	ELECTRIC 24" CLAMSHELL GRILL	A-44,46,48	208	3	50.8		
89	2	DEDICATED HOLDING CABINET	B-38/B-40	120	1	13.3		
91	1	AIR CURTAIN	C-10	120	1	5.1		
92	2	INSTANTANEOUS WATER HEATER PACKAGES	B-23	120	1	59W		
99	2	SERV. ROBOT	B-18	110	1	3.5		

EC SHALL VERIFY ALL EQUIPMENT AND POWER REQUIREMENTS WITH FINAL EQUIPMENT PACKAGE. ADJUST UTILITIES AS REQUIRED PRIOR TO INSTALLATION OF UTILITIES.



**2 SHUNT TRIP WIRING DETAIL**  
E111 SCALE: NTS

CARBON MONOXIDE MONITORING: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MEANS OF MONITORING AND ALARMING THE OCCUPANTS UPON THE PRESENCE OF CARBON MONOXIDE (CO). THE MEANS OF DETECTION SHALL BE LOCATED NEAR EQUIPMENT THAT PRODUCES PRODUCT OF COMBUSTION. LOCATIONS SHALL INCLUDE BUT NOT BE LIMITED TO: GAS FIRED OVENS, GAS FIRED WATER HEATERS, GAS FIRED FURNACES, ETC.

EC SHALL PROVIDE GFI BREAKERS FOR ALL SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50A OR LESS. FOR THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100A OR LESS IN THE KITCHEN AND SERVING AREAS TO COMPLY WITH NEC 210.8.B.2. EC SHALL NOT USE GFI OUTLETS, UNLESS OTHERWISE NOTED. COORDINATE WITH PANEL SCHEDULES.

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Plotted by: chudson  
Plotted Date: Jun 29, 2023 2:54pm

**1 ELECTRICAL POWER PLAN**  
E111 SCALE: 1/4" = 1'-0"

LHMT Project No. 23047.00

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**NATIONAL RESTAURANT DESIGNERS**  
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STATE OF LOUISIANA  
Nelson Ray Horton Jr.  
REG. NO. 2984  
REGISTERED PROFESSIONAL ENGINEER  
MECHANICAL ENGINEERING  
IN  
7/17/23

PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401

DRAWING: **ELECTRICAL POWER PLAN**

Revisions

THRU ADDENDUM "D"	11/21/2022
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PROJECT DATE: 06/29/2023

Drawn By: CD

Checked By: NRT

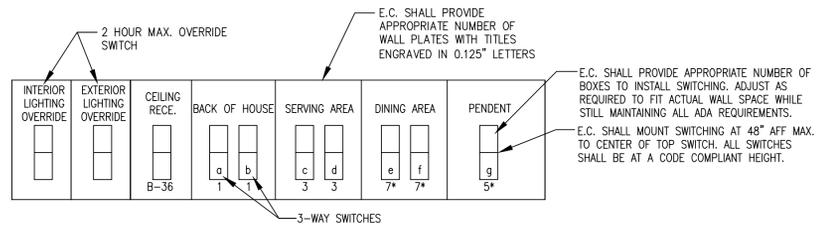
Sheet No. **E111**

# LUMINAIRE SCHEDULE

QTY	ID	DESCRIPTION	MAKE + MODEL	VOLTAGE	REQUIRED LAMPS		WATTS	MOUNTING	REMARKS
					NUMBER	TYPE			
14	A	2X4 LED PANEL	HIGHLINE: PL2X4-D-UNV-50-30-90-WH-120	120	1	LED	50W	GRID	
26	B	2X2 LED PANEL	HIGHLINE: PL2X2-D-UNV-36-30-90-WH-120	120	1	LED	36W	GRID	
3	BE	2X2 LED PANEL	HIGHLINE: PL2X2-D-UNV-36-30-90-WH-120-EM15	120	1	LED	36W	GRID	WITH BATTERY BACK UP
12	C	CAN LIGHT	HIGHLINE: DLP65-D-UNV-28-30-90-BK-S	120	1	LED	28W	CEILING	WET LOCATION RATED
1	D	IN GROUND LIGHT	HIGHLINE: IG2600-ND-UNV-27-40-90-BZ-30	120	1	LED	27W	IN GROUND	WET LOCATION RATED
7	E1	WALL MTD EMERGENCY LIGHT	HIGHLINE: EM2200-ND-120-WH	120	2	INCLUDED	N/A	WALL	
3	EE	EXTERIOR EMERGENCY	HIGHLINE: EMOVAL-ND-UNV-ACEM-BK	120	2	INCLUDED	11W	WALL	
5	G	PENDANT	KICHLER: P5143-0930K9	120	1	LED	9W	PENDANT 6'-6" A.F.F.	
2	L	COOLER/FREEZER LIGHTS	WALK-IN MANUF.	120	1	LED	30W	CEILING	
2	M	1X4 LED LINEAR LIGHT	WALK-IN MANUF.	120	1	LED	32W	SURFACE	
1	X	EMERGENCY-EXIT COMBO	HIGHLINE: EXWEM2-ND-UNV-LED-RD-WH-NC	120	2	INCLUDED	N/A	WALL	
3	X2	SINGLE FACE EXIT SIGN	HIGHLINE: EXEDGE-ND-UNV-SF-RD-WH-NC	120	1	INCLUDED	N/A	CEILING	

LIGHTING PACKAGE VENDORS CONTACTS:  
CONTRACTOR CAN CONTACT BELOW VENDORS FOR PRICING AND VALUE ENGINEERING PACKAGES.

- HIGHLINE LED:  
ABHISHEK RAKHASIYA, abhi@highlineled.com, 214-501-7100
- HERMITAGE LIGHTING:  
SARA MOSSER, smosser@gohermitage.com, 615-843-3380
- CLI:  
FRANK HALCOVICH, frank@commercial-lighting.net, 800-755-0155



**2 SWITCHBANK DETAIL**  
E121 SCALE: NONE

# CONSTRUCTION NOTES

- FIXTURES INDICATED AS NIGHT LIGHTS (DESIGNATED "NL") SHALL BE CONNECTED TO THE LIGHTING CIRCUIT AHEAD OF ANY SWITCHING DEVICE (UNSWITCHED HOT) TO PROVIDE AN ALWAYS ON NIGHT LIGHT.
- EC SHALL LOCATE SWITCHBANK FOR LIGHTS AS SHOWN. SEE SWITCHBANK DETAIL 2/E121.
- CONNECT ALL EMERGENCY AND EXIT LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCH PER NEC 700.12F.
- IF NOT USING CPI GEAR THEN INSTALL ASTRONOMICAL TIME CLOCKS AND CONTACTORS AS SHOWN IN DETAILS 3/E121 AND 4/E121. THIS SHEET. IF USING CPI GEAR THEN LIGHTING CONTROLS WILL BE PROVIDED BY CPI AS INTEGRAL PART.
- NOT USED.
- HOOD LIGHT FIXTURES FURNISHED WITH HOOD. EC SHALL PROVIDE LAMPS. SEE HOOD CONTROL PANEL DETAILS ON "H" SHEETS FOR CIRCUITING HOOD LIGHTS.
- DRY STORAGE LIGHTS PROVIDED BY WALK-IN MANUFACTURER. EC SHALL PROVIDE POWER AND OCCUPANCY SENSOR SWITCH AS SHOWN.
- WALK-IN LIGHTS AND SWITCH PROVIDED BY WALK-IN MANUFACTURER. EC SHALL PROVIDE POWER AS SHOWN. COORDINATE EXACT REQUIREMENTS WITH WALK-IN MANUFACTURER.
- ELECTRICAL CONTRACTOR TO PROVIDE DIRECT ACCESSIBLE POWER FOR ALL ELECTRICAL SIGNAGE WITHIN 6'-0" OF THE SIGN LOCATION PROVIDE CONDUIT AND STUB THRU EXTERIOR WALL, J-BOX AND ANY REQUIRED O.C.P. COORDINATE LOCATION WITH FINAL SIGN PACKAGE PRIOR TO ROUGH-IN. EC SHALL COMBINE POWER SIGNAGES AT SAME WALL UNLESS PROVIDED SEPARATE POWER.
- SEE CIVIL SITE PLAN FOR LOCATION OF LOT LIGHTS AND PYLON SIGN. VERIFY VOLTAGE DROP IS 3% OR LOWER. DISCONNECT SWITCH FOR PYLON SIGN SHALL BE FURNISHED BY SIGN CONTRACTOR.
- IN GROUND MOUNTED FIXTURE. EC SHALL COORDINATE EXACT MOUNTING REQUIREMENTS WITH MANUFACTURER FOR INSTALLATION.

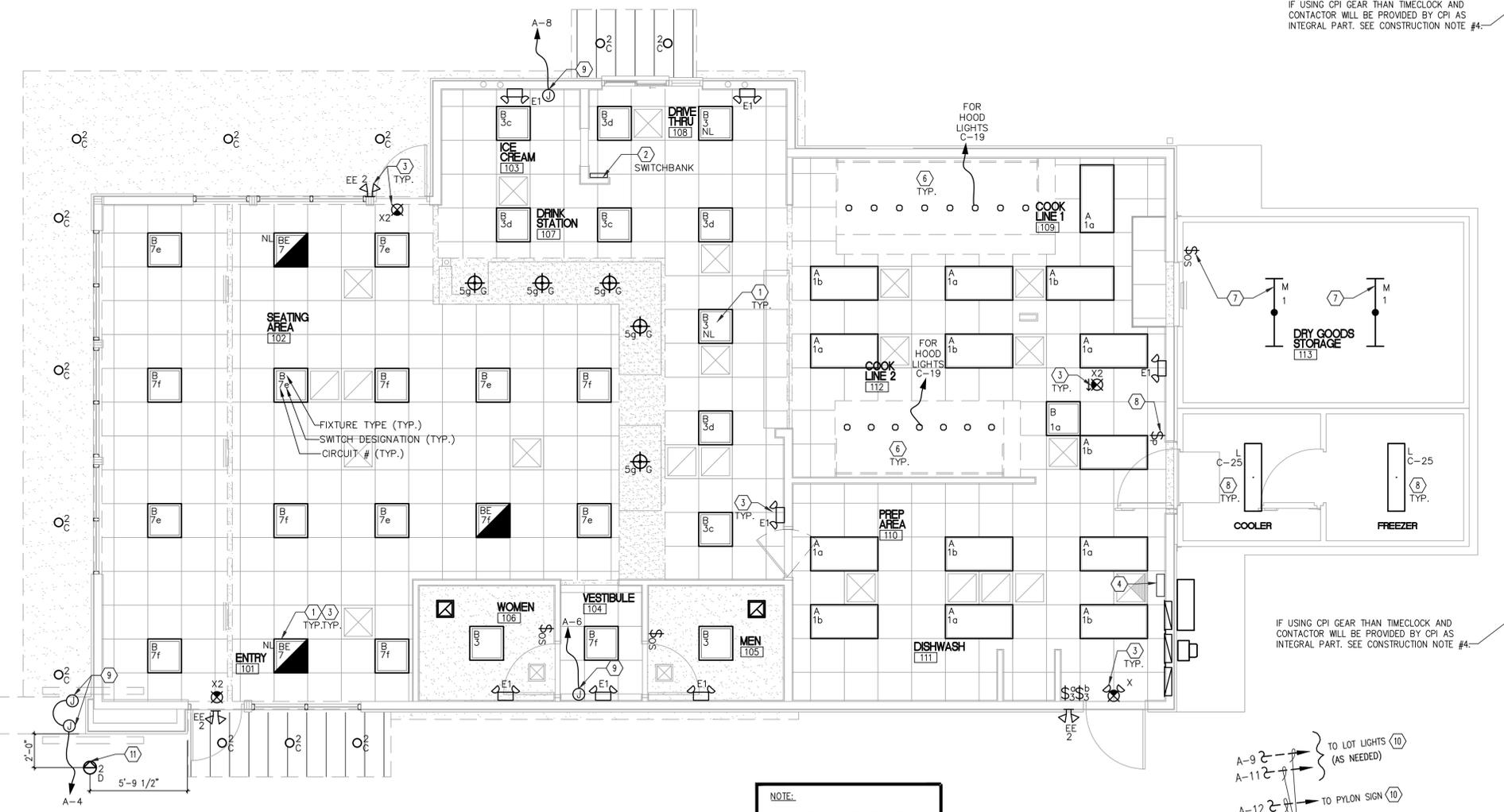
# GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF LUMINAIRES.
- EACH LUMINAIRE SHALL BE SEPARATELY SUPPORTED FROM STRUCTURE BY OPPOSING CORNERS. DO NOT USE CONDUIT FOR SUPPORT OF EITHER FIXTURES OR BOXES.
- USE FLEXIBLE METALLIC CONDUIT (GREENFIELD) FOR CONNECTION OF LAY-IN FIXTURES.
- PROVIDE GROUND CONDUCTOR IN ALL CONDUIT RUNS (NOT ILLUSTRATED).
- VERIFY LOCATION OF WALL MOUNTED EMERGENCY LUMINAIRES TO AVOID CONFLICT WITH KITCHEN EQUIPMENTS.
- LIGHTING FIXTURES IN AREAS WHERE FOOD IS PREPARED, OPEN FOOD IS STORED, OR WHERE UTENSILS ARE CLEANED SHALL HAVE A SHATTERPROOF LENS AND BE READILY CLEANABLE.
- LIGHTING INTENSITY SHALL NOT BE LESS THAN 50 FOOT CANDLES AT A SURFACE WHERE A FOOD EMPLOYEE IS WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR.
- FOOD AND UTENSIL STORAGE ROOMS, REFRIGERATION STORAGE, AND TOILET ROOMS SHALL NOT BE LESS THAN 10 FOOT CANDLES, AT +30" ABOVE FLOOR.
- EC SHALL TEST ALL LIGHTING SYSTEMS TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMMING AND OPERATION.

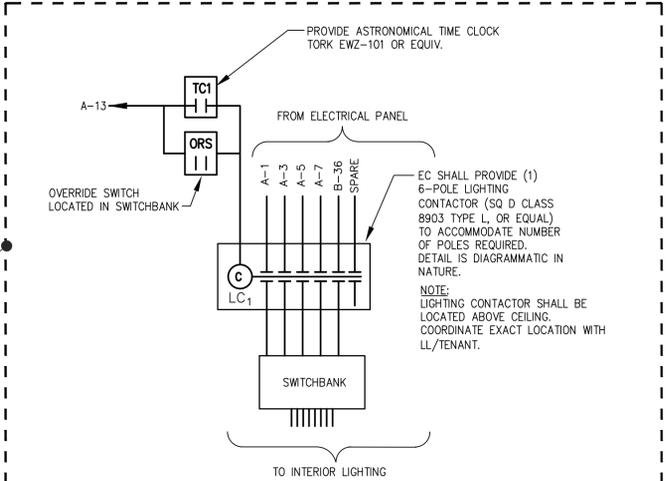
LHMT Project No. 23047.00

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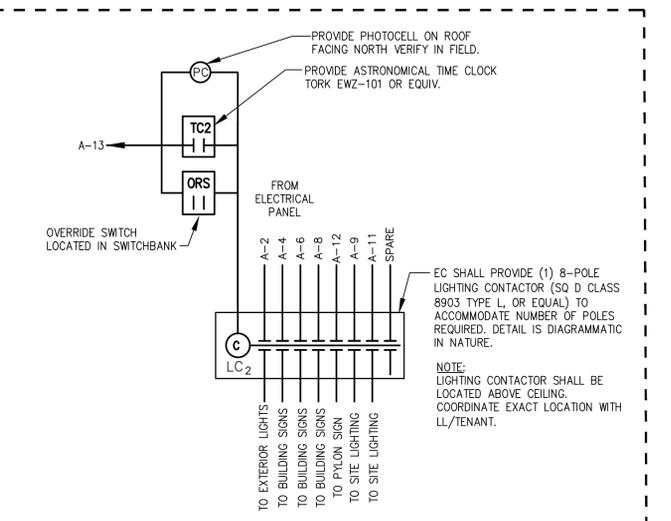
**NATIONAL RESTAURANT DESIGNERS**  
A DIVISION OF LHMT ASSOCIATES  
7208 ACC BLVD, 2ND FLOOR  
FALEIGH, NC 27647  
PHONE: 919.544.9087 FAX: 919.544.9089



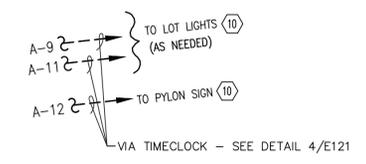
**1 ELECTRICAL LIGHTING PLAN**  
E121 SCALE: 1/4" = 1'-0"



**3 INTERIOR LIGHTING CONTROL DIAGRAM**  
E121 SCALE: NONE



**4 EXTERIOR LIGHTING CONTROL DIAGRAM**  
E121 SCALE: NONE



STATE OF LOUISIANA  
NELSON RAY HORTON JR.  
REG. NO. 28284  
REGISTERED PROFESSIONAL ENGINEER  
MECHANICAL ENGINEERING  
7/17/23

PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401

DRAWING: **ELECTRICAL LIGHTING PLAN**

Revisions

THRU ADDENDUM "D"	11/21/2022
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PROJECT DATE: 06/29/2023

Drawn By: CD

Checked By: NRT

Sheet No. **E121**

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 Plotted Date: Jun 29, 2023 - 2:55pm

**CONSTRUCTION NOTES**

1. EC SHALL PROVIDE 2-GANG BOXES, EMPTY CONDUIT WITH PULL STRING UP TO THE CEILING FOR KITCHEN MONITORS, PRINTERS AND BUMPBAR. COORDINATE ROUGH-IN HEIGHTS AND EXACT REQUIREMENTS WITH LL/TENANT AND LL'S/TENANT'S VENDOR PRIOR TO ROUGH-IN.
2. EC SHALL PROVIDE AND INSTALL STUB THRU CONDUIT FROM EXTERIOR WALL FOR EXTERIOR SPEAKER AND SECURITY CAMERAS. VERIFY FINAL LOCATION AND REQUIREMENTS WITH LL/TENANT AND LL'S/TENANT'S VENDOR PRIOR TO ROUGH-IN.
3. EC SHALL PROVIDE AND INSTALL CONDUITS WITH PULL WIRE UP TO 6" ABOVE THE CEILING FROM MODEM LOCATION TO RUN LOW VOLTAGE CABLING TO POS AND ACCESS POINTS. VERIFY WITH IT CONTRACTOR FOR REQUIRED CONDUIT SIZE AND QUANTITY.
4. EC SHALL PROVIDE AND INSTALL STUB UP CONDUIT FROM NEAREST FULL HEIGHT WALL TO LOW HEIGHT WALL AT FRONT POS LOCATIONS. VERIFY FINAL LOCATION AND REQUIREMENTS WITH LL/TENANT AND LL'S/TENANT'S VENDOR PRIOR TO ROUGH-IN.

**GENERAL NOTES**

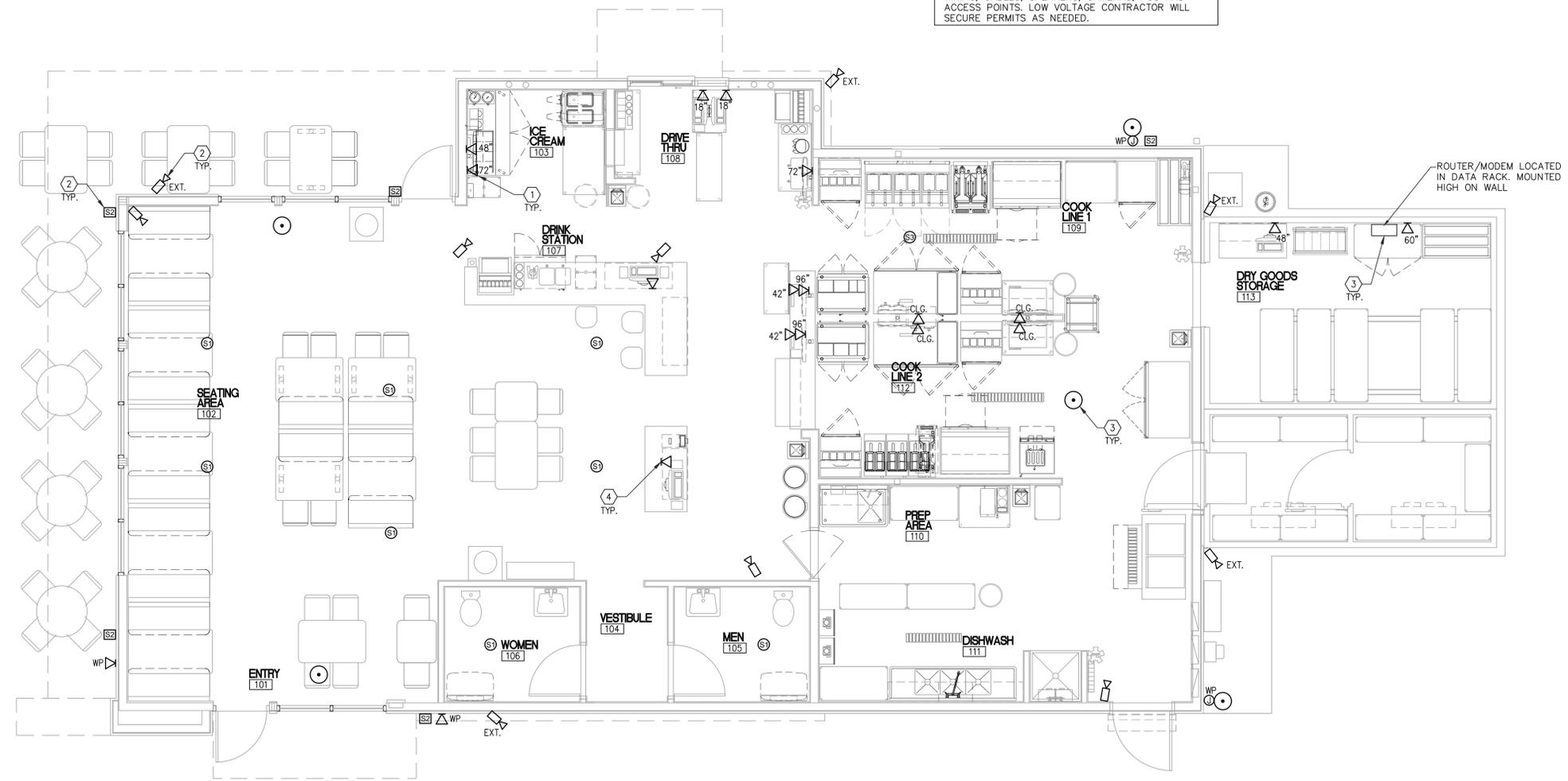
1. ELECTRICAL CONTRACTOR TO CONFIRM / COORDINATE LOCATIONS OF SECURITY CAMERAS, SPEAKERS AND WIRELESS ACCESS POINTS WITH LL/TENANT AND LL'S/TENANT'S VENDOR.
2. POS STATIONS AND I.T. EQUIPMENT INSTALLED BY LL'S/TENANT'S VENDOR- EC TO PROVIDE POWER/DATA OUTLETS AS REQUIRED.
3. EC SHALL PROVIDE REQUIRED J-BOX AND CONDUITS WITH PULL WIRE FOR LOW VOLTAGE CABLES AS REQUIRED FOR POS, KITCHEN MONITORS, SECURITY AND MUSIC SYSTEMS. COORDINATE EXACT REQUIREMENTS WITH LL'S/TENANT'S VENDOR..

**LOW VOLTAGE SYSTEM LEGEND**

SYMBOL	DESCRIPTION
⊙ WP	WEATHER PROOF LOW VOLTAGE JUNCTION BOX
⊙ S	CEILING FLUSH MOUNT INTERIOR SPEAKER
⊙ S	DRIVE THRU COOKLINE SPEAKER
⊙ S	MUSIC SPEAKERS (EXTERIOR WALL MOUNTED)
□	ROUTER/MODEM LOCATION
⊙	ACCESS POINT
⊙	SECURITY CAMERA
EXT. ⊙	EXTERIOR SECURITY CAMERA
△	DATA WALL OUTLET - RUN 3/4" EMT TO ACCESSIBLE POINT ABOVE CEILING. PROVIDE PULL WIRE.

THIS IS GENERIC LAYOUT. VERIFY EXACT LOCATION AND REQUIREMENTS FOR SECURITY AND IT DEVICES WITH LL'S/TENANT'S VENDOR. PRIOR TO ROUGH-INS.

LOW VOLTAGE WORK WILL BE PROVIDED BY HWY55 NATIONAL LOW VOLTAGE CONTRACTOR. LOW VOLTAGE CONTRACTOR PROVIDE AND INSTALL LOW VOLTAGE WIRING, CABLES, SPEAKERS, CAMERAS, POS AND ACCESS POINTS. LOW VOLTAGE CONTRACTOR WILL SECURE PERMITS AS NEEDED.



**1 ELECTRICAL LOW VOLTAGE PLAN**  
 E131 SCALE: 1/4" = 1'-0"



PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401

DRAWING: **ELECTRICAL LOW VOLTAGE PLAN**

**Revisions**

THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CD
Checked By	NRT
Sheet No.	<b>E131</b>

**CONSTRUCTION NOTES**

- 1 ALL ELECTRICAL CONDUITS PENETRATING ROOF SHALL GO THROUGH PITCH POCKETS INSTALLED BY GC; EC & GC SHALL COORDINATE. INSTALL PER ROOFING MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
- 2 CIRCUIT SHALL BE ROUTED THROUGH THE HOOD CONTROL PANEL, SEE MECHANICAL "M" SHEETS. COORDINATE W/ MC
- 3 DISCONNECT SWITCH FURNISHED WITH FAN BY HOOD CONTRACTOR.
- 4 EC SHALL PROVIDE A FLEX CONNECTION OF PROPER LENGTH TO ALLOW EXHAUST FAN TO REMOVE FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.
- 5 WR/GFI RECEPTACLE IS FACTORY INSTALLED. EC SHALL CONNECT TO CIRCUIT AS SHOWN.
- 6 EC SHALL PROVIDE NEMA 3R SAFETY DISCONNECT SWITCHES PER NAMEPLATE DATA ALL RTU'S. COORDINATE W/ MC. AND GC
- 7 EC SHALL PROVIDE AND INSTALL NEMA-3R SAFETY DISCONNECT SWITCH FOR REMOTE CONDENSING UNIT. EC SHALL VERIFY REQUIREMENTS WITH WALK IN MANUFACTURER PRIOR TO ROUGH-IN.
- 8 EC SHALL PROVIDE AND INSTALL GFI/WP SERVICE RECEPTACLE ABOVE 18" OF FINISH WALK-IN ROOF. VERIFY IN FIELD.
- 9 RESTROOM EXHAUST FAN TO BE INTERLOCKED WITH RESTROOM OCCUPANCY SENSOR LIGHT SWITCHES SO FAN AND LIGHTS ARE ON WHEN EITHER OF RESTROOM IS OCCUPIED.

**GENERAL NOTES**

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL WORK SHOWN ON THE MECHANICAL DRAWINGS. (EXCEPT LOW VOLTAGE).
2. ROUTE ALL CONDUITS CONCEALED (INSIDE WALLS AND/OR ABOVE CEILING) WHERE POSSIBLE.
3. SEE MECHANICAL & PLUMBING ROOF PLANS FOR ADDITIONAL ROOF INFORMATION.
4. ALL ELECTRICAL CONDUITS PENETRATING THE ROOF SHALL GO THROUGH ROOF CONDUIT CURB INSTALLED BY GENERAL CONTRACTOR & ROOFING CONTRACTOR; EC SHALL COORDINATE. INSTALL PER ROOFING MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
5. ALL CONDUITS FOR ROOF TOP EQUIPMENT SHALL BE RUN BELOW ROOF DECK TO ELIMINATE TRIPPING HAZARDS AND AVOID DERATING CONDUCTORS FOR SOLAR HEATING. NEC 310.15(B)(5)(c).
6. MECHANICAL DESIGN IS BASED ON CAPTIVEAIRE SYSTEM. COORDINATE WITH EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR FOR HOOD PACKAGE PROVIDED. ADJUST POWER AND CONTROLS IF ACCUREX SYSTEM IS SELECTED.

LHMT Project No. 23047.00

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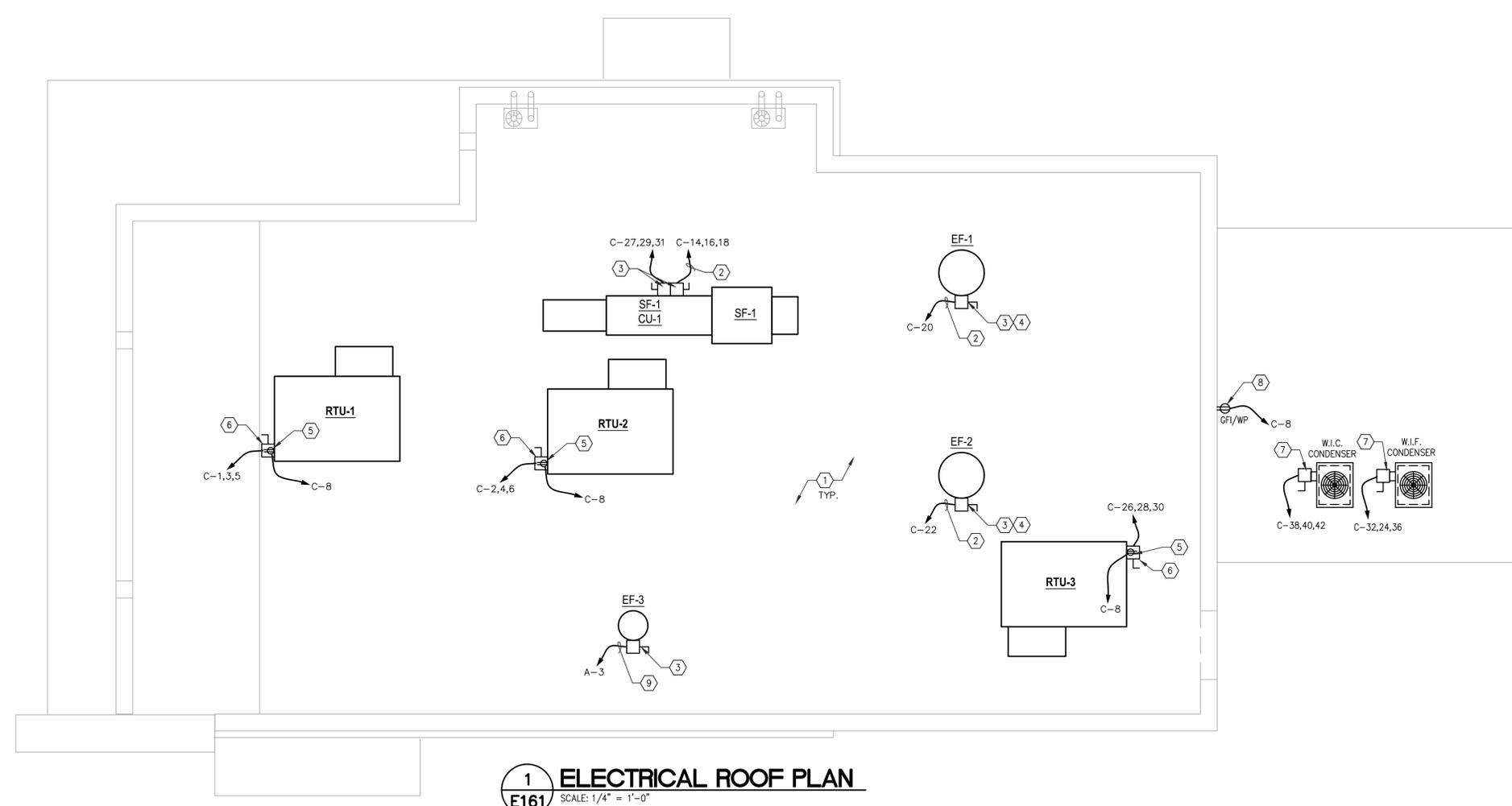
**NATIONAL RESTAURANT DESIGNERS**  
A DIVISION OF LHMT ASSOCIATES  
7208 ACC BLVD, 2ND FLOOR,  
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STATE OF LOUISIANA  
Nelson Ray Horton Jr.  
REG. NO. 29824  
REGISTERED  
MECHANICAL ENGINEERING  
IN  
7/7/23

PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401

DRAWING: **ELECTRICAL ROOF PLAN**

Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CD
Checked By	NRT
Sheet No.	<b>E161</b>



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

Drawing File: C:\Users\chudson\appdata\local\temp\AcP\publish\_6199A\E161.dwg  
 Plotted by: chudson  
 Plotted Date: Jun 29, 2023 - 2:55pm

EC SHALL COORDINATE ELECTRICAL SERVICE REQUIREMENTS WITH ENTERGY HAMMOND  
PHONE: (800) 968-8243

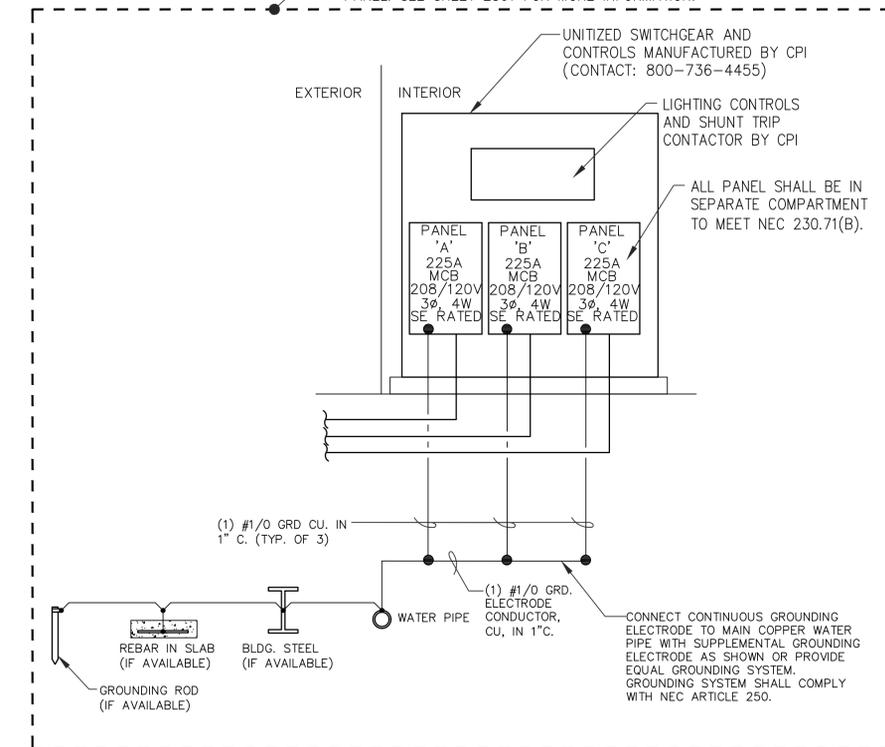
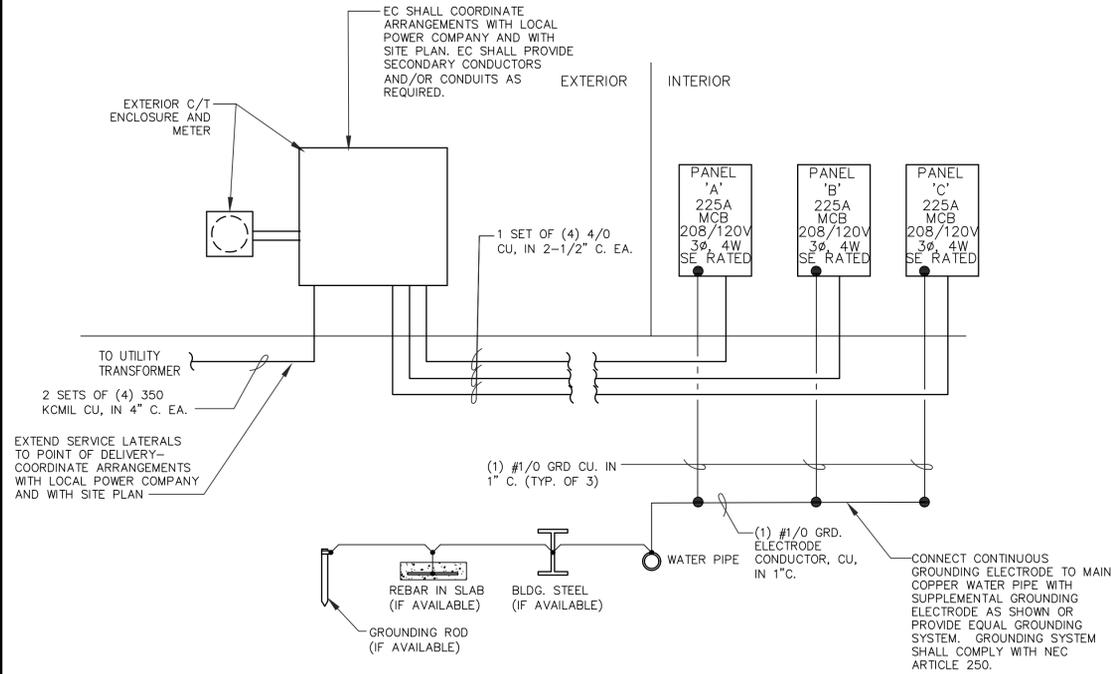
EC SHALL PROVIDE ALTERNATIVE BID TO USE UNITIZED CPI GEAR IN LIEU OF LOOSE ELECTRICAL PANEL. SEE SHEET E801 FOR MORE INFORMATION.

**GENERAL NOTES**

1. ALL WIRING AND EQUIPMENT BY EC UNLESS NOTED OTHERWISE.
2. PANELBOARDS "A", "B", AND "C" SHALL BE U.L. LISTED.
3. ALL INTERIOR METAL PIPING (WATER AND GAS) SHALL BE BONDED TO THE SERVICE ENTRANCE ENCLOSURE, THE GROUNDING CONDUCTOR AT THE SERVICE, THE GROUNDING ELECTRODE CONDUCTOR OF SUFFICIENT SIZE OR TO ONE OR MORE GROUNDING ELECTRODES USED. THE BONDING JUMPER SHALL BE SIZED IN ACCORDANCE WITH TABLE 250.66 (FOR WATER). THE GAS PIPING SHALL BE BONDED WITH A JUMPER SIZED PER TABLE 250.122 USING THE RATING OF THE CIRCUIT THAT MAY ENERGIZE THE PIPING, PER NEC 250.104(B).
4. CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY THE LOCAL ELECTRIC UTILITY. SWITCHGEAR PROVIDER SHALL COORDINATE WITH LOCAL UTILITY TO DETERMINE MAXIMUM AVAILABLE FAULT CURRENT.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE A DIRECTORY, COMPLETELY TYPED TO IDENTIFY CIRCUITS, WITH TRANSPARENT PROTECTOR FOR EACH PANEL.
6. EC SHALL VERIFY ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT W/ NAMEPLATE DATA PRIOR TO INSTALLATION. MATCH RECEPTACLES, PLUGS AND CORD EXTENSIONS AS REQUIRED. PROVIDE DISCONNECT TO MATCH EQUIPMENT WHERE REQUIRED.
7. EC SHALL PROVIDE ALL ELECTRICAL PANELS WITH ARC-FLASH WARNING LABELS PER NEC.
8. EC TO PROVIDE AND INSTALL PLACARDS ON EACH PANEL INDICATING PANEL'S SOURCE, INCLUDING PANEL NAME AND FEEDER CIRCUIT NUMBER AND THE AVAILABLE FAULT CURRENT AND THE DATED CALCULATED.
9. CIRCUIT BREAKERS FOR MULTI-CONDUCTOR CIRCUITS SHALL HAVE A COMMON TRIP FOR ALL CONDUCTORS.
10. PANEL PLACARDS ARE TO BE MADE FROM LAMINATED PLASTIC PROVIDING A BLACK BACKGROUND TO WHITE ENGRAVED LETTERING.
11. MECHANICAL DESIGN IS BASED ON CAPTIVE/AIR SYSTEM. COORDINATE WITH EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR FOR HOOD PACKAGE PROVIDED. ADJUST POWER AND CONTROLS IF ACCUREX SYSTEM IS SELECTED.

EC SHALL PROVIDE SERIES RATED SYSTEM FOR PANELS. BRANCH CIRCUIT BREAKERS OF A PANEL SHALL BE SERIES RATED WITH MAIN CIRCUIT BREAKER OF THAT PANEL.

EC SHALL VERIFY WITH LAHJ AND LOCAL UTILITY CONSTRUCTION GUIDELINES TO ENSURE FULL COMPLIANCE WITH ELECTRICAL SERVICE REQUIREMENTS. EC SHALL COORDINATE WITH LAHJ AND LOCAL UTILITY AND SHALL BE ASSURED OF LOCAL APPROVAL OF SERVICE DESIGN PRIOR TO PURCHASE OR INSTALLATION OF ANY SERVICE EQUIPMENT. CONTACT THE ENGINEER IMMEDIATELY WITH ANY PROBLEMS OR CHANGES. ANY COSTS ARISING FROM FAILURE TO FULLY COORDINATE SERVICE INSTALLATION AND COMPLY WITH LAHJ AND LOCAL UTILITY SHALL BE BORNE BY THE EC



**1 ELECTRICAL RISER DIAGRAM**  
E601 SCALE: NTS

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER POLE	NOTE	DESCRIPTION	CKT. #	
1	LIGHTS KITCHEN/STORAGE		2	20	0.81	1.2			0.40	20	1	EXTERIOR LIGHTING	2	
3	LIGHTS SERVING/RR/ EF-3		2	20	0.47		1.7		1.20	20	1	BUILDING SIGNAGE	4	
5	LIGHTS PENDANTS		2	1	0.05			1.3	1.20	20	1	BUILDING SIGNAGE	6	
7	LIGHTS DINING		2	1	0.61	1.8			1.20	20	1	BUILDING SIGNAGE	8	
9	SITE LIGHTING		2	1	2.0	1.67		2.2	0.50	20	1	DT MENUBOARD/SPEAKER POST	10	
11	SITE LIGHTING		2	1	2.0	1.33		2.5	1.20	20	1	PYLON SIGN	12	
13	TIME CLOCK CONTROLS		1	20	0.10	0.6			0.50	20	1	HOTBOX HEAT TAPE	14	
15	1-DR. FREEZER #2		1	1	20	0.38		0.9	0.48	20	1	REFR. PREPBOX (TOP)#13	16	
17	REFR. PREPBOX (TOP) PREP#3		1	1	20	0.64		1.6	0.78	20	1	REFR. PREPBOX #18	18	
19	REFR. PREPBOX (BOTTOM) PREP#3		1	1	20	0.84	1.1		0.25	20	1	MIX-IN BLENDER #19	20	
21	REFR. PREPBOX (TOP) COOK#3		1	1	20	0.84	1.8		1.00	20	1	COOKER/WARMER #20	22	
23	REFR. PREPBOX (BOTTOM) COOK#3		1	1	20	0.84		2.4	1.56	20	2	FROZEN CUSTARD MACHINE #24	24	
25	REFR. PREPBOX (BOTTOM) #13		1	1	20	0.48	2.0		1.56			2#12, #12 G. 1in (1) 3/4" C. EA	26	
27	CHEFBASE #6		1.7	1	20	0.65	1.1		0.50	20	1	DT MENUBOARD/SPEAKER POST	28	
29	CHEFBASE #6		1.7	1	20	0.65	1.1		0.50	20	1	SAFE #35A	30	
31	WARMING STATION (TOP) #8		1	2	20	1.48	1.7		0.25	20	1	MIX-IN BLENDER #19	32	
33	#12, #12 G. 1in (1) 3/4" C. EA		1	2	20	1.48	3.1		1.60	20	1	CONVECTION OVEN #57	34	
35	WARMING STATION (BOTTOM) #8		1	2	20	1.48	3.3		1.80	20	1	TOASTER #14	36	
37	#12, #12 G. 1in (1) 3/4" C. EA		1	2	20	1.48	4.6		3.24	40	3	ELECTRIC GRIDDLE #65	38	
39	REFRIGERATED WORKTOP (TOP) #9		1	1	20	0.68	3.8		3.14			#8, #10 G. 1in (1) 3/4" C. EA	40	
41	REFRIGERATED WORKTOP (BOTTOM) #9		1	1	20	0.68		3.8	3.14				42	
43	FROZEN CUSTARD MACHINE #24T		1	2	30	2.49	8.8		6.29	70	3	ELECTRIC GRIDDLE #65D	44	
45	#10, #10 G. 1in (1) 3/4" C. EA		1	2	30	2.49	8.8		6.29			#4, #8 G. 1in (1) 1-1/4" C. EA	46	
47	FROZEN CUSTARD MACHINE #24T		1	2	30	2.28		8.6	6.29				48	
49	#10, #10 G. 1in (1) 3/4" C. EA		1	2	30	2.28	2.3		0.00	20	1	SPARE	50	
51	3-BANK FRYER #4F		1	1	20	0.36		0.4	0.00	20	1	SPARE	52	
53	FRYER FILTER #4F		1	1	20	0.96		1.1	0.18	20	1	SERVICE RECEPTACLE	54	
						24.2	23.7	25.8	TOTAL KVA PER PHASE					
						201	198	215	AMPS PER PHASE					

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER POLE	NOTE	DESCRIPTION	CKT. #	
1	MONI./PRINT./BUMP.#14A/14B/14C		1,4	1	20	1.44	1.6		0.17	20	1	DIPPING CABINETS #22	2	
3	MONI./PRINT./BUMP.#14A/14B/14C		1,4	1	20	0.72	0.8		0.12	20	1	PEPSI MACHINE (DT) #26	4	
5	DATA RACK		1,4	1	20	0.36		0.5	0.12	20	1	PEPSI MACHINE (SERVING) #26	6	
7	DATA RACK		1,4	1	20	0.36	2.0		1.68	20	1	COFFEE/TEA BREWER #33	8	
9	OFFICE IG RECEPTACLES		1,4	1	20	0.36	0.7		0.36	20	1	JUICE DISPENSER #28	10	
11	KITCHEN GENERAL PURPOSE REC		1	1	20	0.18		2.0	1.80	20	1	COFFEE BREWER #33B	12	
13	OUTSIDE GFI RECEPTACLES (LEFT)		1	1	20	0.36	0.6		0.24	20	1	REFRIGERATOR #17	14	
15	BAR USB RECEPTACLES		1	1	20	0.54	1.6		1.08	20	1	3 DOOR COOLER #48	16	
17	OUTSIDE GFI RECEPTACLES (RIGHT)		1	1	20	0.54		1.4	0.84	20	1	SERV ROBOT #99	18	
19	OUTSIDE GFI RECEPTACLE (BACK)		1	1	20	0.18	0.9		0.72	20	1	POS FRONT COUNTER #35	20	
21	RESTROOM RECEPTACLES		1	1	20	0.36	1.1		0.72	20	1	POS DT #35	22	
23	RESTROOM SENSORS POWER		3	1	20	0.10		0.1				SPACE	24	
25	MONITOR #14A		1,4	1	20	0.18	1.4		1.20	20	1	DT HEADSETS 35H	26	
27	TV IN DINING		1	1	20	0.36	0.5		0.17	20	1	DIPPING CABINETS (DT) #22	28	
29	COOKER/WARMER (TOP) #12		1	1	20	1.80	2.5		0.72	20	1	MONI./BUMP.#14A/14B	30	
31	IRRIGATION CONTROLLER		1	1	20	0.18	0.5		0.36	20	1	ABOVE CEILING RECEPTACLE	32	
33	MODULAR B/B RACK #42		1	1	20	0.18	2.0		1.80	20	1	COOKER/WARMER (BOTTOM) #12	34	
35	STEAMER (TOP) #11		1	2	20	1.65	2.2		0.54	20	1	CEILING RECEPTACLES	36	
37	#12, #12 G. 1in (1) 3/4" C. EA		1	2	20	1.65	2.9		1.20	20	1	1,6 DEDICATED HOLDING CABINET #89	38	
39	STEAMER (BOTTOM) #11		1	2	20	1.65	2.9		1.20	20	1	1,6 DEDICATED HOLDING CABINET #89	40	
41	#12, #12 G. 1in (1) 3/4" C. EA		1	2	20	1.65		1.7				SPACE	42	
43	LOW VOLTAGE		1,4	1	20	0.18	0.2					SPACE	44	
45	SPACE		1			0.0						SPACE	46	
47	SPACE		1			0.0						SPACE	48	
49	SPACE		1			0.0						SPACE	50	
51	SPACE		1			0.0						SPACE	52	
53	SPACE		1			0.0						SPACE	54	
						10.1	9.6	10.3	TOTAL KVA PER PHASE					
						84	80	86	AMPS PER PHASE					

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER POLE	NOTE	DESCRIPTION	CKT. #	
1	RTU-1 FLA: 35.6 MCA: 39		3	3	50	4.27	8.5		4.27	50	3	RTU-2 FLA: 35.6 MCA: 39	2	
3	#6, #10 G. 1in (1) 1" C. EA					4.27	8.5		4.27			#6, #10 G. 1in (1) 1" C. EA	4	
5						4.27		8.5	4.27				6	
7			1	20			0.5		0.54	20	1	ROOF REC	8	
9	SPACE		1	20			0.6		0.61	20	1	AIR CURTAIN #91	10	
11	ICE MACHINE #46		1,3	1	20	1.41		1.4	0.01	20	1	WATER FILTER SYSTEM #55	12	
13	ICE MACHINE #46		1,3	1	20	1.41	2.4		1.03	15	3	5F-1 FLA: 9	14	
15	SPACE		1				1.0		1.03			#12, #12 G. 1in (1) 3/4" C. EA	16	
17	SPACE		1						1.03				18	
19	HOOD CONTROL PANEL #16/HOOD LTS		4	1	15	0.50	1.9		1.39	25	1	3,4 EF-1 FLA: 11.6	20	
21	SPACE		1	20			1.4		1.39	25	1	3,4 EF-2 FLA: 11.6	22	
23	GAS WATER HEATER #92		1	1	20	0.18		0.2				SPACE	24	
25	WALK-INS LIGHTS/DOOR HEATER		2	1	20	0.50	5.4		4.87	50	3	3 RTU-3 FLA: 40.6 MCA: 45	26	
27	SF-1 CU-1 FLA: 11.9		3,4	3	20	1.43	6.3		4.87			#6, #10 G. 1in (1) 1" C. EA	28	
29	#12, #12 G. 1in (1) 3/4" C. EA					1.43		6.3	4.87				30	
31						1.43	2.0		0.60	20	3	3 WALK IN FREEZER CONDENSER #47F	32	
33	SPACE		1				0.6		0.60			#12, #12 G. 1in (1) 3/4" C. EA	34	
35	FREEZER EVAPORATOR #47F		3	2	20	0.30		0.9	0.60				36	
37	#12, #12 G. 1in (1) 3/4" C. EA					0.30	0.9		0.60	20	3	3 WALK IN COOLER CONDENSER #47C	38	
39	COOLER EVAPORATOR #47C		3	2	20	0.30		0.9	0.60			#12, #12 G. 1in (1) 3/4" C. EA	40	
41	#12, #12 G. 1in (1) 3/4" C. EA					0.30		0.9	0.60				42	
43	SPACE		1			0.0						SPACE	44	
45	SPACE		1			0.0						SPACE	46	
47	SPACE		1			0.0						SPACE	48	
49	SPACE		1			0.0						SPACE	50	
51	SPACE		1			0.0						SPACE	52	
53	SPACE		1			0.0						SPACE	54	
						21.7	19.4	19.3	TOTAL KVA PER PHASE					
						181	162	161	AMPS PER PHASE					

**PANEL "A"**

ITEMS	CON.	%	DEM.
RECEPTACLES	0.2	0.08	0.2
KITCHEN	61.8	65%	40.2
HVAC	0.0	100%	0.0
LIGHTS (INT.)	1.9	125%	2.4
LIGHTS (EXT.)	3.4	125%	4.2
MISC.	6.3	100%	6.3
TOTAL KVA	73.7		53.4
T			

**ELECTRICAL SPECIFICATION:**

**INTRODUCTION:**

A. THE WORK, APPARATUS AND MATERIALS WHICH SHALL BE FURNISHED UNDER THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS SHALL INCLUDE ALL ITEMS SPECIFIED HEREINAFTER AND SHOWN ON THE DRAWINGS. ALL OTHER MATERIALS NECESSARY FOR THE COMPLETE INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR TO PROVIDE COMPLETE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

B. THE CONTRACTOR SHALL EXTEND THE SERVICE FROM THE POINT OF SERVICE ATTACHMENT FURNISHING ALL PROTECTIVE DEVICES, CONDUCTORS, SUPPORTS, RACEWAYS, ETC. TO PROVIDE COMPLETE INTERIOR ELECTRICAL SYSTEMS TO SERVE MOTOR LOADS, LIGHTING LOADS AND MISCELLANEOUS ELECTRICAL LOADS, AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREINAFTER. THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF THE WORK AND MAKING ANY MINOR CONNECTION CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND NO SUBSTANDARD WORK WILL BE ACCEPTED.

C. VERIFY CONDITIONS AT THE FIELD PRIOR TO PRICING THE JOB. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND EXISTING CONDITIONS.

D. CONTRACTOR SHALL COORDINATE THE EXACT MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL LIGHTING FIXTURE SWITCHES, OUTLETS AND WIRING DEVICES AND SHALL PERFORM ALL WORK NOTED ON PLANS, IN NOTES OR IN DETAILS RELATED TO THE INSTALLATION. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY DEVICE PRIOR TO ROUGH-IN 10' WITHOUT REVISION TO THE CONTRACT.

E. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEE INSPECTIONS AND TESTING.

F. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR DURATION OF THE WORK.

G. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. ELECTRICAL CONTRACTOR SHALL CONTACT LOCAL POWER AND TELEPHONE COMPANY PRIOR TO BID AND START OF CONSTRUCTION.

**ELECTRICAL CODES**

A. THE WORK UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE INSTALLATION SHALL ALSO COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL AND STATE LAWS AND ORDINANCES.

**INTERFERENCES**

A. THE PLANS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE DIFFERENT TRADES SO THAT INTERFERENCES BETWEEN CONDUITS, PIPING, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL WORK WILL BE AVOIDED. ALL NECESSARY OFFSETS IN RACEWAYS, FITTINGS, ETC. REQUIRED TO PROPERLY INSTALL THE WORK SHALL BE FURNISHED SO AS TO TAKE UP MINIMUM SPACE, AND ALL MATERIALS REQUIRED TO ACCOMPLISH THIS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER. IN CASE INTERFERENCE DEVELOPS, THE OWNER'S AUTHORIZED REPRESENTATIVE WILL DECIDE WHICH EQUIPMENT, PIPING, ETC., MUST BE RELOCATED, REGARDLESS OF WHICH WAS INSTALLED FIRST.

**MATERIALS**

A. IN GENERAL, MATERIALS AND APPARATUS SHALL COMPLY WITH ALL APPLICABLE TESTS, RATINGS, SPECIFICATIONS, AND REQUIREMENTS OF THE IEEE AND NEMA AND SHALL BEAR THE APPROVED DEVICE LABEL OF THE UNDERWRITERS' LABORATORIES, INC. OR OTHER TESTING LABORATORY APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SUBMIT A LIST OF PRINCIPAL MATERIAL ITEMS, GIVING MANUFACTURER'S NAMES AND CATALOG NUMBERS. APPROVAL OF THE LIST SHALL BE OBTAINED FROM THE OWNER BEFORE ORDERS ARE PLACED.

**GUARANTEE**

A. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. CONTRACTOR SHALL RECTIFY ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WITHIN SAID PERIOD. THE OWNER WILL GIVE NOTICE OF DEFECTS WITH REASONABLE PROMPTNESS.

**IDENTIFICATION OF EQUIPMENT**

A. IDENTIFICATION OF EQUIPMENT SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT INSTALLED BY THE CONTRACTOR. ENGRAVED LAMINATED PLASTIC NAMEPLATES SHALL BE PROVIDED AND IDENTIFICATION SHALL CLEARLY DESCRIBE THE EQUIPMENT AND FUNCTION. COORDINATE NAMES ABBREVIATIONS AND OTHER DESIGNATIONS USED IN ELECTRICAL IDENTIFICATION WORK WITH CORRESPONDING DESIGNATIONS SHOWN, SPECIFIED OR SCHEDULED. PROVIDE NUMBERS, LETTERS AND WORDING AS INDICATED OR IF NOT OTHERWISE INDICATED, AS RECOMMENDED BY MANUFACTURER OR AS REQUIRED FOR PROPER IDENTIFICATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND EQUIPMENT.

B. INSTALL LABEL TAGS ON ALL WIRE AND CABLE IN JUNCTION BOXES, WIREWAYS AND WIRING OUTLETS OF PANELS. TAGS SHALL IDENTIFY WIRE OR CABLE CIRCUIT NUMBER AND/OR EQUIPMENT SERVED AS SHOWN ON DRAWINGS.

C. ALL JUNCTION BOXES TO BE DESIGNATED WITH PERMANENT MARKER INDICATING PANELBOARD AND CIRCUIT NUMBERS OF BRANCH CIRCUIT WIRING CONTAINED WITHIN.

D. PANELBOARD DIRECTORIES SHALL BE UPDATED/TYPERWRITTEN WITH ACCURATE AND CURRENT INFORMATION BY THE CONTRACTOR AT THE END OF CONSTRUCTION. DIRECTORIES SHALL REFLECT EXISTING UNCHANGED AND NEW RECORD CONDITIONS AND INCLUDE CIRCUIT NUMBER, TENANT NAME, TYPE AND LOCATION OF LOAD.

**RACEWAYS AND FITTINGS**

A. HOMERUNS SHALL BE A MINIMUM SIZE OF HALF-INCH (1/2"), UNLESS OTHERWISE SPECIFIED. PROVIDE A MINIMUM OF HALF-INCH (1/2") FOR FLEXIBLE CONNECTIONS TO EQUIPMENT.

B. UNDERGROUND INSTALLATIONS:  
1. USE THICKWALL NONMETALLIC CONDUIT, SCHEDULE 40 PVC.  
2. IN OR UNDER SLAB-ON-GRADE: USE SCHEDULE 40 PVC OR GRAY HDPE PIPE, PER NEC REQUIREMENTS. USE ONLY UL LISTED AND APPROVED FITTINGS FOR COUPLING AND CHANGE-OVER TO DIFFERENT TYPE RACEWAYS.  
3. MINIMUM SIZE: 3/4".  
4. INSTALL RIGID STEEL, LONG RADIUS ELBOWS FOR CONDUITS LARGER THAN ONE INCH (1").  
5. UNDER SLAB CONDUIT OR POURED-IN CONCRETE CONDUIT SHALL BE PAINTED WITH A COAT OF BITUMASTIC. THE BITUMASTIC SHALL BE CONTINUOUS AND CONTINUE UP THROUGH PENETRATION OF CONCRETE SLABS, UP TO 12" A.F.G. CORROSION TAPE IS ACCEPTABLE.

C. OUTDOOR LOCATIONS, ABOVE GRADE: USE RIGID AND LIQUDTIGHT FLEXIBLE METAL CONDUIT WITH ENHANCED CORROSION. PROVIDE COMPLETELY COATED OF THE RIGID CONDUIT WITH AN ALKALI AND RUST RESISTANT BITUMASTIC PAINT, KOPPER # 50.

D. WET AND DAMP LOCATIONS: USE RIGID STEEL, INTERMEDIATE, AND LIQUDTIGHT FLEXIBLE METAL CONDUIT.

**E. DRY LOCATIONS:**

- 1. CONCEALED: ELECTRICAL METALLIC TUBING.
- 2. EXPOSED:  
A) EXTERIOR-RIGID STEEL ONLY.  
B) INTERIOR-RIGID STEEL TO 2'0" A.F.G., THEN ELECTRICAL METALLIC TUBING.

**F. METAL CONDUIT**

- 1. RIGID STEEL AND INTERMEDIATE METAL CONDUIT: ANSI C80.1.
- 2. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; ALL STEEL FITTINGS.
- 3. RIGID STEEL CONDUIT SHALL BE UNDERWRITERS' APPROVED HOT-DIP GALVANIZED WITH ENHANCED CORROSION PROTECTION, ZINC METALIZED OR SHERADIZED. THE THREADED ENDS OF THE CONDUIT SHALL BE ZINC COATED AND SHALL BE THREADED TYPE WITH ENHANCED CORROSION PROTECTION.
- 4. ALL CONDUIT SHALL BE MADE UP TIGHT AND NO RUNNING THREADS WILL BE PERMITTED. "ERICSON" COUPLINGS BEING USED WHERE NECESSARY.

**G. FLEXIBLE METAL CONDUIT**

- 1. DESCRIPTION: FOR EXPOSED LOCATIONS, INTERLOCKED STEEL CONSTRUCTION. FOR CONCEALED LOCATIONS- INTERLOCKED STEEL CONSTRUCTION.
- 2. FITTINGS: ANSI/NEMA FB 1.
- 3. FLEXIBLE METALLIC CONDUIT IN DRY LOCATIONS SHALL BE UNDERWRITERS' APPROVED, ZINC COATED, SINGLE STRIP TYPE. FITTINGS SHALL BE AS MANUFACTURED BY THOMAS AND BETTS "TITE-BITE", STRAIGHT OR ANGLE CONNECTORS OR APPROVED EQUAL.

**H. LIQUDTIGHT FLEXIBLE METAL CONDUIT**

- 1. DESCRIPTION: INTERLOCKED STEEL CONSTRUCTION WITH PVC JACKET.
- 2. FITTINGS: ANSI/NEMA FB 1.
- 3. FLEXIBLE CONDUIT IN DAMP OR WET LOCATIONS SHALL BE UNDERWRITERS' APPROVED FLEXIBLE, LIQUID-TIGHT METAL CONDUIT. FITTINGS SHALL BE AS MANUFACTURED BY APPLETON, CROUSE-HINDS OR THOMAS AND BETTS.

**I. ELECTRICAL METALLIC TUBING (EMT)**

- 1. DESCRIPTION: ANSI C80.3; GALVANIZED TUBING.
- 2. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL SET SCREW OR STEEL COMPRESSION COUPLING OR CONNECTORS. ALL CONNECTORS SHALL BE INSULATED THROAT, UP TO ONE INCH.
- 3. THIN WALL CONDUIT SHALL BE UNDERWRITERS' APPROVED GALVANIZED ELECTRICAL METALLIC TUBING. COUPLINGS AND CONNECTORS FOR CONDUIT SHALL BE STEEL HEX-NUT, ZINC OR CADMIUM PLATED SET SCREW TYPE FITTING

**J. NONMETALLIC CONDUIT**

- 1. DESCRIPTION: NEMA TC 2; SCHEDULE 40 PVC.
- 2. FITTINGS AND CONDUIT BODIES: NEMA TC 3.

**K. TYPE MC CABLE**

- 1. MC CABLE MAY BE USED WHERE CONCEALED IN WALLS. SECURE IN NO MORE THAN 3' INTERVALS AND WITHIN 6" OF OUTLET.

L. UNDERGROUND SERVICE CONDUITS/RACEWAY ENTERING THE BUILDING OR STRUCTURE FROM OUTSIDE SHALL BE SEALED, INCLUDING SPARE CONDUITS. SEALANT SHALL BE SUITABLE FOR THIS USE.

M. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE.

N. ALL CONDUITS SHALL BE PROPERLY ALIGNED, GROUPED AND SUPPORTED. EXPOSED CONDUIT SHALL BE INSTALLED AT RIGHT ANGLES TO OR PARALLEL TO THE PRINCIPAL STRUCTURAL MEMBERS. ALL CONDUITS SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 8 FEET. PROVIDE SUPPORT A MINIMUM OF 18" FROM BENDS AND OUTLET BOXES AND ON INTERVALS NOT TO EXCEED 8'-0". CONDUIT IS NOT TO SPAN ANY SPACE UNSUPPORTED. ALL CONDUITS SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM CEILING SUPPORT SYSTEM.

O. PROVIDE NYLON PULL CORD AND LEAVE IN PLACE IN EACH EMPTY CONDUIT. LABEL EACH END OF THE PULL CORD WITH LOCATION OF THE OPPOSITE END.

**BOXES**

A. ALL BOXES SHALL BE RIGIDLY MOUNTED AND SHALL BE EQUIPPED WITH SUITABLE SCREW FASTENED COVERS. OPEN KNOCK-OUTS OR HOLES IN BOXES SHALL BE PLUGGED WITH A SUITABLE BLANKING DEVICE.

B. OUTLET BOXES FOR EXPOSED WALL MOUNTING, AND OUTDOOR INSTALLATIONS SHALL BE CAST WITH THREADED HUB TYPE WITH SUITABLE COVERS. WEATHERPROOF RECEPTACLE COVERS SHALL BE "IN USE" TYPE AND HAVE METAL SPRING HINGE LIDS.

**CONDUCTORS**

A. UNLESS OTHERWISE INDICATED, ALL BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG. BRANCH CIRCUITS RUN OVER 50 FEET IN LENGTH. MEASURING ONE WAY FROM THE FIRST OUTLET OF THE CIRCUIT TO THE PANEL, SHALL BE #10 AWG FOR THE ENTIRE CIRCUIT.

B. SPLICES, TAPS AND ATTACHMENT FITTINGS AND LUGS SHALL BE ELECTRICALLY AND MECHANICALLY SECURE AND SOLDERLESS FOR CONDUCTORS SIZES #8 AWG AND LARGER. THERE SHALL BE PLENTY OF SLACK CABLE IN BOXES, OUTLETS AND CABINETS TO INSURE THAT THERE IS NO BINDING AT THE BUSHINGS. ALL LUGS SHALL BE OF THE CORRECT SIZES FOR THE CONDUCTORS JOINED AND IN NO CASE SHALL STRANDS BE CUT FROM A CONDUCTOR IN ORDER TO FIT THE CONDUCTOR INTO A LUG. TAPING OF JOINTS SHALL BE WITH VINYL PLASTIC ELECTRICAL TAPE TO SECURE INSULATION STRENGTH EQUAL TO THAT OF THE CONDUCTORS JOINED.

C. ALL CONDUCTORS SHALL BE COPPER. CONDUCTOR INSULATION SHALL BE DUAL TYPE THHN/THWN 75° C. (167°F.) FOR DRY, DAMP & WET LOCATIONS. CONDUCTOR INSULATION WITH SINGLE TYPE MARKING THHN 90° C. (194° F.) MAY BE USED FOR DRY LOCATIONS ONLY. ALL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED BY NEC AND FURTHER IDENTIFIED AND CODED AS SPECIFIED HEREINAFTER. COLOR CODING SHALL BE BY MEANS OF COLORED INSULATING MATERIAL, COLORED BRAID OR JACKET OVER THE INSULATION OR BY MEANS OF SUITABLE COLORED, PERMANENT, NON-AGING, INSULATING TAPE APPLIED TO CONDUCTORS AT EACH CABINET OR JUNCTION POINT. THE COLOR CODING SHALL BE ACCOMPLISHED AS THE

CONDUCTORS ARE INSTALLED. THE FOLLOWING SYSTEMS OF COLOR CODING SHALL BE STRICTLY ADHERED TO:

- 1. ISOLATED GROUND LEADS: GREEN AND YELLOW.
- 2. GROUND LEADS: GREEN
- 3. GROUNDED NEUTRAL LEADS: WHITE
- 4. 120/240 VOLT, UNGROUNDED PHASE WIRES: BLACK AND RED.

THE COLOR CODE ASSIGNED TO EACH PHASE WIRE SHALL BE CONSISTENTLY FOLLOWED THROUGHOUT. NOTE: WHERE EXISTING BASE BUILDING COLOR CODING DIFFERS FROM COLOR CODING ASSIGNED HERE-IN, CONTRACTOR SHALL USE EXISTING COLOR CODING AS REQUIRED TO MAINTAIN CONSISTENCY. ADVISE ENGINEER (IN WRITING) OF COLOR CODING TO BE USED.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE ALL REQUIRED CONNECTIONS TO SERVE MECHANICAL EQUIPMENT FURNISHED.

E. ALL CONDUITS AND WIRING PENETRATING RATED FLOORS, CEILINGS AND WALLS SHALL BE SEALED TO MAINTAIN FIRE RATING AND INTEGRITY OF SEPARATION. PENETRATION SHALL BE PER UL ASSEMBLY STANDARDS.

F. WHEN MAIN ELECTRICAL SERVICE CONDUCTOR HAS A WIREWAY, E.C. SHALL TAP OFF ALL SERVICE ENTRANCE FEEDERS (PARALLEL CONDUCTORS) FOR TOTAL AMPACITY & BALANCING.

**GROUNDING**

A. THE INTERIOR ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NEC AND AS SPECIFIED HEREINAFTER.

B. ALL METALLIC RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE AT ALL JOINTS AND AT ALL BOXES, CABINETS, FITTINGS, AND EQUIPMENT. METALLIC RACEWAYS SHALL BE CONNECTED TO A DIRECT GROUND AT THE POINT OF ELECTRICAL SERVICE ENTRANCE AND SHALL BE ELECTRICALLY CONTINUOUS THROUGHOUT THE ENTIRE SYSTEM.

C. ALL GROUND CONDUCTORS SHALL BE INSULATED COPPER UNLESS OTHERWISE NOTED.

D. ALL RACEWAYS WITH #10 OR 12 AWG PHASE CONDUCTORS FOR RECEPTACLES, LIGHTING FIXTURES AND SIMILAR CIRCUITS (NEW BRANCH CIRCUITS) SHALL BE PROVIDED WITH A PARTLY SIZED GREEN EQUIPMENT GROUND CONDUCTOR. GROUND CONDUCTOR SHALL BE INSTALLED IN ENTIRE RACEWAY SYSTEM INCLUDING WALL SWITCHES AND FLEXIBLE CONDUIT TO LIGHT FIXTURES. EQUIPMENT GROUND CONDUCTOR SIZES FOR CIRCUITS WITH PHASE CONDUCTORS LARGER THAN #10 AWG ARE INDICATED ON DRAWINGS. GROUND CONDUCTORS SHALL BE CONNECTED TO GROUND BUS IN PANELBOARDS.

E. TERMINATE FEEDER AND BRANCH CIRCUIT INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH GROUNDING LUG, BUS, OR BUSHING. CONDUCTORS LOOPED UNDER SCREW OR BOLT HEADS WILL NOT BE PERMITTED.

F. INSTALL CLAMP-ON CONNECTORS ON CLEAN METAL CONTACT SURFACES TO ENSURE ELECTRICAL CONDUCTIVITY AND CIRCUIT INTEGRITY.

G. PROVIDE GROUNDING BUSHING AND A CONTINUOUS COPPER BONDING JUMPER FROM THE BUSHING TO THE EQUIPMENT GROUND BUS IN ALL FEEDERS. THE BONDING JUMPER SHALL BE THE SAME SIZE AS THE EQUIPMENT GROUND CONDUCTOR.

H. GROUND SHALL BE 5/8" DIAMETER, TEN (10) FEET LONG COPPER-CLAD STEEL. OBTAIN TWENTY FIVE (25) OHMS MAXIMUM RESISTANCE AS READ WITH AN OHM METER, USING TWO REFERENCE RODS. IF TWENTY FIVE (25) OHMS CANNOT BE ACHIEVED, CONTRACTOR SHALL PROVIDE ADDITIONAL RODS, UNTIL TWENTY FIVE FIVE (25) HAS BEEN OBTAIN.

**CIRCUIT PROTECTIVE DEVICES**

**A. GENERAL:**

- 1. UNLESS OTHERWISE INDICATED, PROTECTIVE DEVICES SHALL BE MOUNTED WITH TOP OF CABINET OR ENCLOSURE 6'-6" ABOVE FINISHED FLOOR, SHALL BE PROPERLY ALIGNED, AND SHALL BE ADEQUATELY SUPPORTED INDEPENDENTLY OF THE CONNECTING RACEWAYS. ALL STEEL SHAPES, ETC., NECESSARY FOR THE SUPPORT OF THE EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS OTHERWISE INDICATED. ALL BRANCH CIRCUIT PROTECTIVE DEVICES ENCLOSURES SHALL BE NEMA TYPE 1, GENERAL PURPOSE TYPE. CIRCUIT PROTECTIVE DEVICES INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL HAVE WEATHERPROOF ENCLOSURES, NEMA TYPE 4X STAINLESS STEEL 316.

- 2. INSTALL DISCONNECT SWITCHES FOR USE WITH MOTOR-DRIVEN APPLIANCES, AND MOTORS AND CONTROLLERS WITHIN SIGHT OF CONTROLLER POSITION UNLESS OTHERWISE INDICATED.

**B. SAFETY SWITCHES:**

- 1. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE. SWITCH MECHANISM SHALL BE QUICK-MAKE, QUICK-BREAK. COVER SHALL BE INTERLOCKED WITH MECHANISM TO PREVENT OPENING UNLESS SWITCH IS IN THE "OFF" POSITION. ALL ENCLOSURES SHALL BE PRIMED AND FINISHED TO RESIST RUSTING AND CORROSION. SWITCHES SHALL BE ITE, GENERAL ELECTRIC, SQUARE-D, OR CUTLER-HAMMER. (MATCH BUILDING STANDARD WHERE APPLICABLE)

**C. FUSES:**

- 1. ALL FUSES FOR SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE BUSSMAN "FUSETRON" OR CHASE SHAWMUT "TRIONIC". THE CONTRACTOR SHALL FURNISH AND INSTALL PROPER SIZE FUSES WHERE REQUIRED FOR ALL FUSIBLE EQUIPMENT AND SHALL FURNISH TO THE OWNER A DUPLICATE CARTRIDGE FOR EACH FUSE TYPE INSTALLED.
- 2. FUSES FOR HVAC EQUIPMENT (ROOF TOP UNITS, CONDENSING AND AIR HANDLING UNITS) SHALL BE RK5 TYPE, TYPICAL UNLESS OTHERWISE NOTED. CONFIRM WITH HVAC EQUIPMENT NAME PLATE FOR SPECIFIC FUSE REQUIREMENTS.

**PANELBOARDS:**

A. PANELBOARDS SHALL BE CONNECTED DISTRIBUTED PHASE WITH CIRCUIT NUMBERING AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL HAVE CIRCUIT DIRECTORY CARDS AND SHALL BE COMPLETED WITH A TYPERWRITER BY THE CONTRACTOR TO INDICATE NEW AND EXISTING AREAS AND/OR DEVICES SERVED BY EACH CIRCUIT.

B. CIRCUIT BREAKERS FOR MOUNTING IN NEW PANELBOARDS OR DISTRIBUTION SECTION OF SWITCHBOARD SHALL BE MOLDED PLASTIC CASE, AIR CIRCUIT BREAKER TYPE. BREAKERS SHALL

HAVE THERMAL-MAGNETIC TRIP UNITS AND MULTI-POLE BREAKERS SHALL HAVE A COMMON TRIP BAR SO THAT THE TRIPPING OF ONE POLE WILL AUTOMATICALLY TRIP ALL POLES OF THE BREAKER. BREAKERS SHALL BE TRIP FREE AND TRIP-INDICATING AND SHALL HAVE QUICK-MAKE, QUICK BREAK CONTACTS.

C. PANELBOARDS SHALL BE INSTALLED COMPLETE WITH CONNECTORS AND ASSOCIATED HARDWARE FOR ALL CIRCUIT BREAKERS AND SPACES LISTED IN THE PANELBOARD SCHEDULE.

D. PANELBOARDS TO BE DEADFRONT TYPE, WITH ALUMINUM/COPPER BUS BARS, WITH BOLT-ON TYPE BRANCH CIRCUIT BREAKERS EQUAL TO SQUARE-D TYPE NOOD, NF, OR I-LINE AS APPLICABLE. ALL CIRCUIT BREAKERS SHALL BE CONCEALED BEHIND A HINGED, LOCKABLE DOOR INSTALLED ON THE FRONT PANELBOARD COVER.

E. ALL PANELBOARDS TO BE IDENTIFIED WITH ENGRAVED PLASTIC LAMINATE SIGNS. COORDINATE NAMES USED FOR IDENTIFICATION WITH CORRESPONDING DESIGNATIONS SHOWN, SPECIFIED OR SCHEDULED. FASTEN WITH SELF TAPPING STAINLESS STEEL SCREWS, OR CONTACT TYPE PERMANENT ADHESIVE WHERE SCREWS CAN NOT OR SHOULD NOT PENETRATE SUBSTRATE. INDICATE PANEL NAME, LOCATION, FEEDER, VOLTAGE, PHASE, WIRES, AND AMPERAGE.

F. INSTALL PANELBOARDS AND ENCLOSURES AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, APPLICABLE REQUIREMENTS OF NEC STANDARDS AND NECA'S "STANDARDS OF INSTALLATION", AND IN COMPLIANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS FULFILL REQUIREMENTS.

G. PANEL LOAD DATA IS BASED ON INFORMATION GIVEN TO ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATING BEFORE ORDERING.

H. TYPERWRITTEN CIRCUIT PANEL DIRECTORY SHALL BE PROVIDED INSIDE OF EACH PANELBOARD DOOR. CLEARLY IDENTIFY AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT PROTECTIVE DEVICE, INCLUDING SPARES. HAND PRINTED WILL NOT BE ACCEPTED.

**RECEPTACLES**

A. ALL RECEPTACLES SHALL BE THE GROUNDING TYPE WITH GROUND CONNECTION MADE THROUGH AN EXTRA POLE WHICH SHALL BE PERMANENTLY CONNECTED TO GROUND CONDUCTOR.

B. RECEPTACLES FOR 20 AMPERE, 120V SERVICE SHALL BE THREE-WIRE, TWO POLE RECEPTACLES RATED 20 AMPERES AT 120 VOLTS. 15 AMPERE RECEPTACLES WILL BE ACCEPTABLE ON MULTI-OUTLET CIRCUITS. ALL NEW RECEPTACLES SHALL BE THAT OF LEVITON OR HUBBELL OR PRE-APPROVED EQUAL.

C. WALLPLATES: PROVIDE WALLPLATES FOR SINGLE AND COMBINATION WIRING DEVICES, OF TYPES, SIZES, AND WITH GANGING AND CUTOUTS AS INDICATED. SELECT PLATES WHICH MATE AND MATCH WIRING DEVICES TO WHICH ATTACHED. CONSTRUCT WITH METAL SCREWS FOR SECURING PLATES TO DEVICES; SCREW HEADS COLORED TO MATCH FINISH OF PLATES. WALLPLATES COLORED TO MATCH WIRING DEVICES AND ADJACENT WALL SURFACES. PROVIDE STAINLESS STEEL PLATES IN BREAK ROOM, FOOD SERVICE AND COUNTER AREAS.

D. ELECTRICAL CONTRACTOR SHALL CONFIRM RECEPTACLE CONFIGURATION, VOLTAGE, PHASE AND AMPERAGE FOR ALL EQUIPMENT FURNISHED AND INSTALLED FOR THIS WORK. ADVISE ENGINEER IF REQUIRED.

ALL REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE. COLOR OF DEVICES AND PLATES SHALL BE DICTATED BY ARCHITECT AND OWNER.

**MOTOR STARTERS:**

A. MANUAL MOTOR STARTERS FOR 115V, 1Ø MOTORS (1) HORSEPOWER AND SMALLER, SHALL BE SINGLE POLE, HORSEPOWER RATED SWITCHES WITH THERMAL OVERLOAD UNITS AND HEATERS. STARTERS SHALL BE SQUARE-D CLASS 2510, WITH STAINLESS STEEL COVER PLATES.

**LIGHTING FIXTURES:**

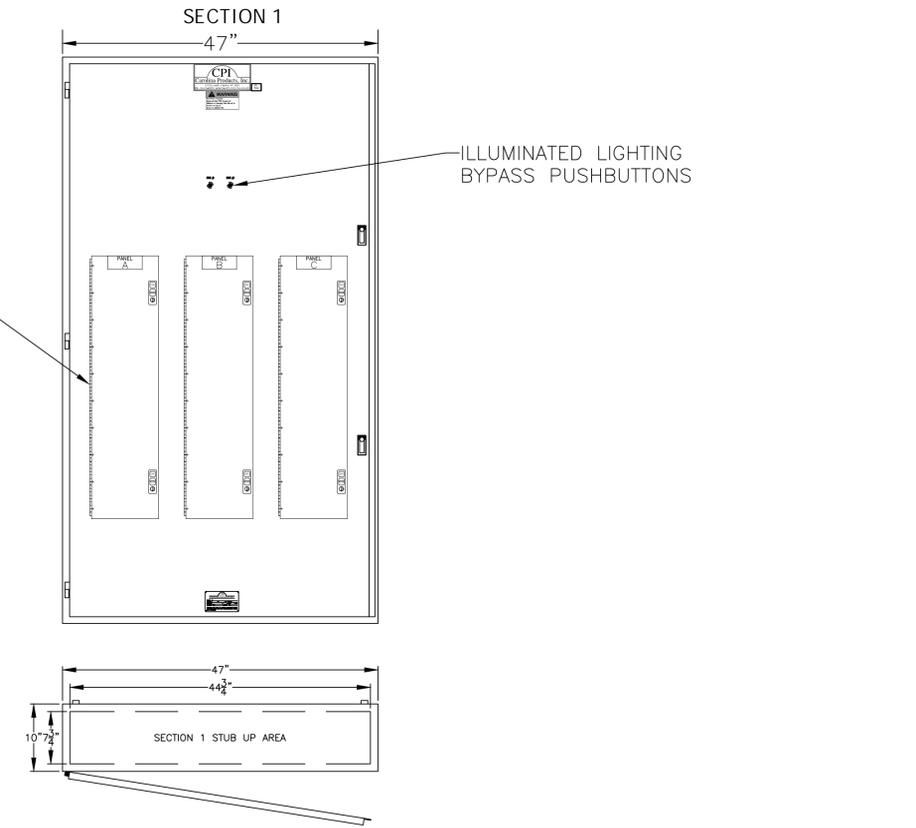
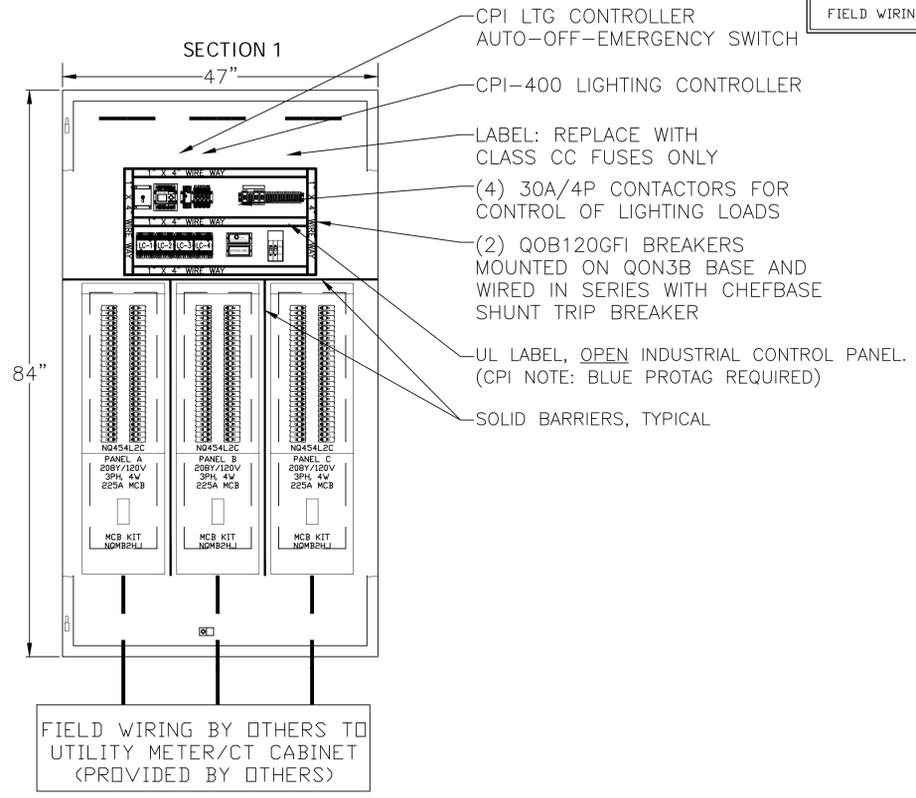
A. CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES AND PROVIDE NECESSARY MOUNTING HARDWARE. ALL RECESSED LIGHTING FIXTURES SHALL BE THERMALLY-PROTECTED AS REQUIRED BY CODE.

B. 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.

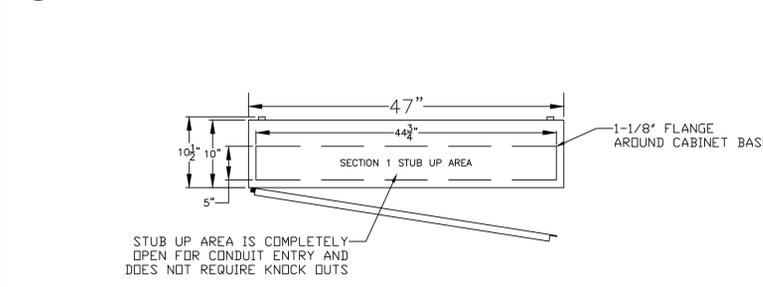
C. CONTRACTOR SHALL PROVIDE ONE COMPLETE SET OF LAMPS FOR ALL LIGHTING FIXTURES FURNISHED BY THE OWNER (UNLESS SHIPPED WITH FIXTURE). PROVIDE LABEL IN EACH FIXTURE INDICATING SIZE AND TYPE OF LAMP CORRESPONDING WITH SCHEDULE ON DRAWINGS.

**CPI UNITIZED SWITCHGEAR**  
INTERIOR/EXTERIOR VIEWS (NTS)

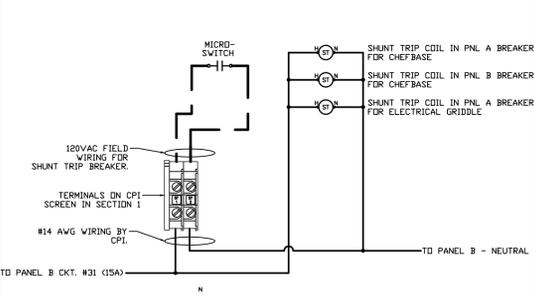
WIRE LEGEND	
FACTORY WIRING:	—
FIELD WIRING:	---



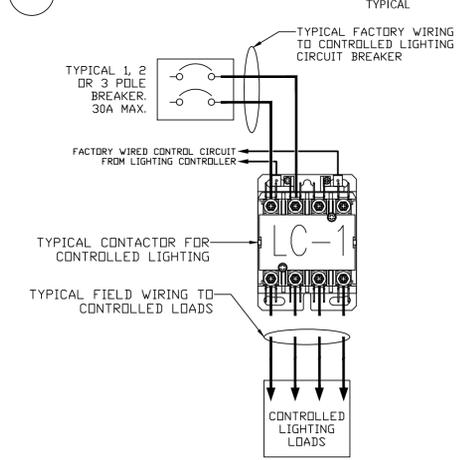
**ROUGH-IN DETAIL**  
NTS



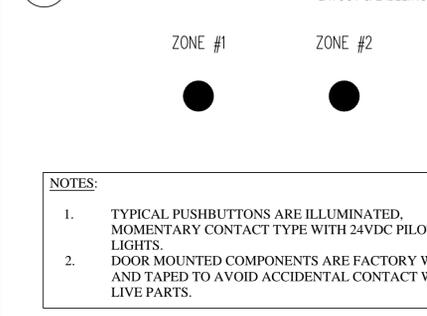
**SHUNT TRIP DETAIL**  
NTS



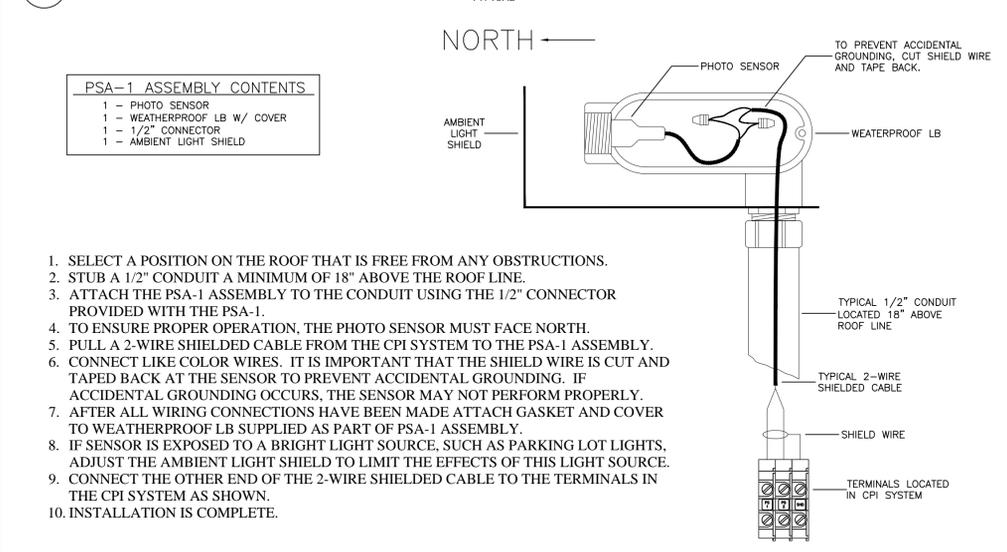
**LIGHTING CONTACTOR DETAIL**  
TYPICAL



**DOOR MOUNTED COMPONENTS**  
LAYOUT & LABELING



**PHOTO SENSOR INSTALLATION DETAIL**  
TYPICAL



**CPI**  
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**REVISIONS:**

REVISION 1:	
REVISION 2:	
REVISION 3:	

**SHEET DESCRIPTION:**

INTERIOR & EXTERIOR VIEWS  
ROUGH-IN DETAILS  
PUSHBUTTON LAYOUT  
PHOTOCELL INSTALLATION INFO

**PROJECT OVERVIEW:**

PROJECT NAME: HWY 55 BURGERS, SHAKES & FRIES  
PROJECT CITY: HAMMOND, LA

**CPI PROJECT INFORMATION:**

DATE: 06/06/2022  
DRAWN BY: AJW  
**SHEET: 1.0**

LHMT Project No. 23047.00  
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PHONE: 919.244.0087 FAX: 919.244.9099

**SHOP DRAWINGS FOR REFERENCE**

PROJECT: **HIGHWAY 55**  
3.2 PROTOTYPE  
3236 HWY 190  
HAMMOND, LA 70401  
DRAWING: CPI SWITCHGEAR (SHOP DRAWING FOR REFERENCE ONLY)

**Revisions**

THRU ADDENDUM "D"	11/21/2022

PROJECT DATE: 06/29/2023  
Drawn By: CD  
Checked By: NRT  
Sheet No. **E801**

NOTE: EC SHALL PROVIDE ALTERNATIVE BID TO PROVIDE AND INSTALLED CPI SWITCHGEAR IN LIEU OF LOOSE ELECTRICAL PANELS.

NOTE: E.C. SHALL REFER TO CPI SHOP DRAWINGS FINAL CONNECTION AND WIRING.

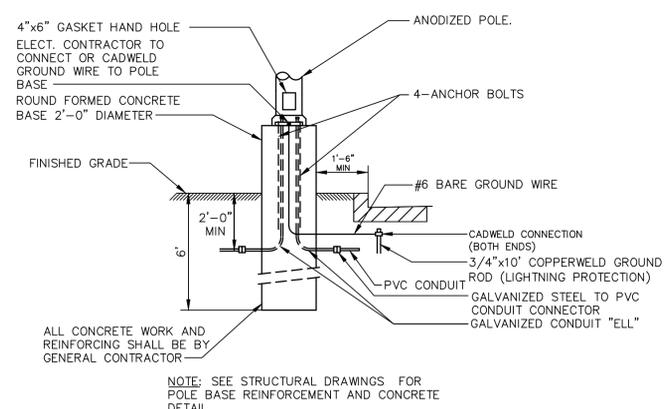
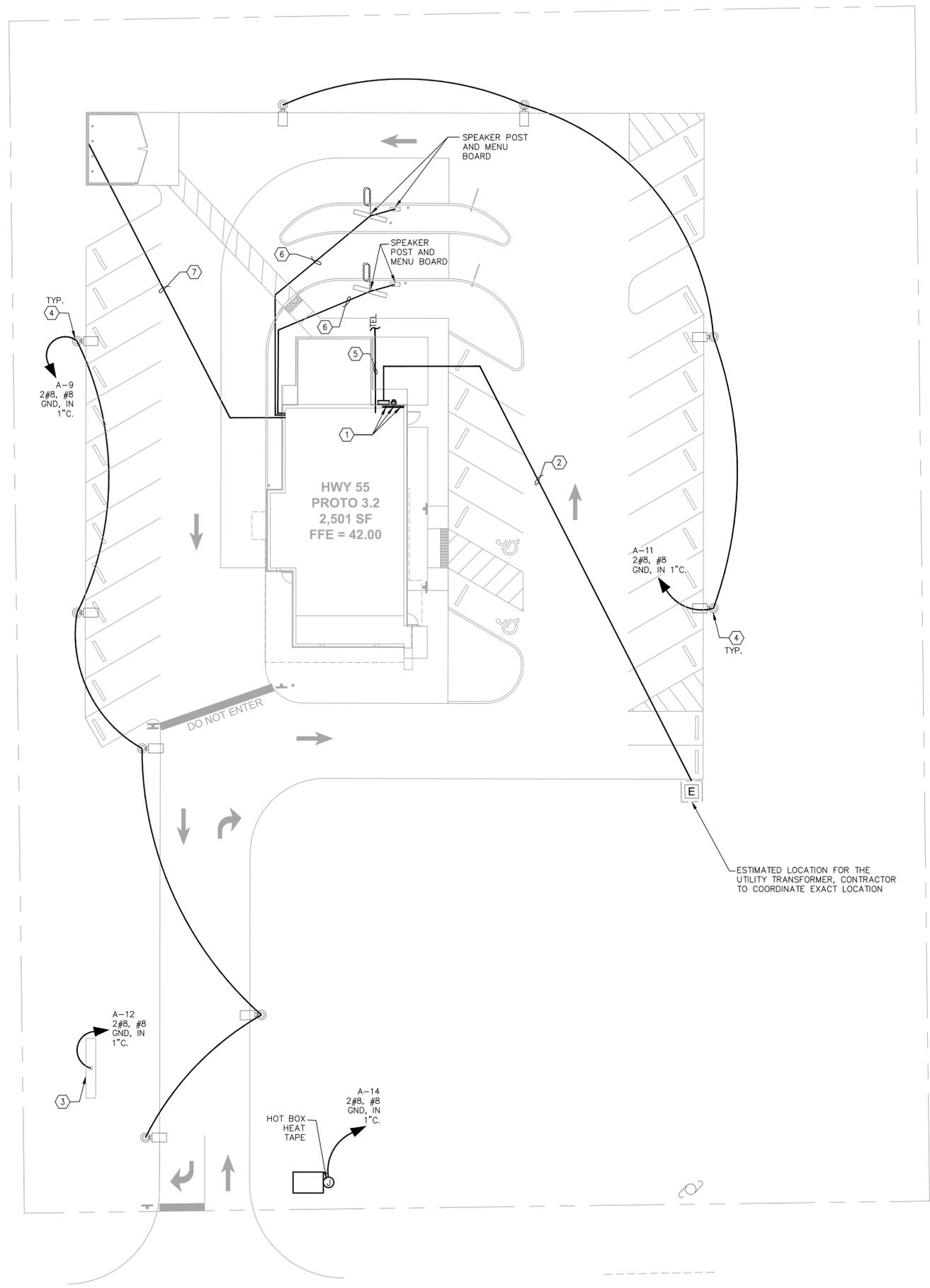


PROJECT: **HIGHWAY 55**  
 3.2 PROTOTYPE  
 3236 HWY 190  
 HAMMOND, LA 70401  
 DRAWING: ELECTRICAL SITE PLAN

Revisions	
THRU ADDENDUM "D"	11/21/2022
PROJECT DATE	06/29/2023
Drawn By	CD
Checked By	NRT
Sheet No.	ES111

- ### CONSTRUCTION NOTES
- BUILDING POWER PANEL LOCATION.
  - EC SHALL PROVIDE SECONDARY CONDUCTORS AND CONDUITS FROM TRANSFORMER TO BUILDING SERVICE LOCATION. COORDINATE EXACT REQUIREMENTS WITH UTILITY COMPANY.
  - VERIFY PYLON SIGN LOCATION; CONTRACTOR SHALL COORDINATE WITH FINAL CIVIL DRAWINGS AND SIGN VENDOR PRIOR TO TRENCHING.
  - SITE POLE LIGHTS. REFER TO CIVIL PLAN FOR POLE LIGHT SPECIFICATION AND PHOTOMETRIC STUDY.
  - 2" CONDUIT FOR TELEPHONE SERVICE. CONTRACTOR SHALL SEE FINAL CIVIL DRAWINGS AND COORDINATE WITH THE UTILITY FOR FINAL TELEPHONE SERVICE LOCATION. SERVICE POINT WAS NOT KNOWN AT TIME OF PUBLICATION.
  - (3) 1" CONDUITS UNDERGROUND TO MENU BOARD AND SPEAKER POST AT EACH LOCATION. SEE ARCHITECTURAL AND CIVIL SHEETS FOR MORE INFORMATION. COORDINATE WITH DT MENUBOARD INSTALLER FOR EXACT REQUIREMENTS PRIOR TO ROUGH-INS.
  - EC SHALL PROVIDE (1) 1" CONDUIT FROM BUILDING TO DUMPSTER ENCLOSURE FOR SECURITY CAMERA. VERIFY EXACT LOCATION AND REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR AND OWNER PRIOR TO INSTALLATION.

- ### GENERAL SITE PLAN NOTES
- CONDUIT RUNS ARE DIAGRAMMATICAL; CONTRACTOR TO RUN CONDUIT ALONG "PATH OF LEAST RESISTANCE". NO EXTRA FEES WILL BE PAID FOR ROCK BUSTING, UNLESS LL'S/TENANT'S REPRESENTATIVE AGREES THERE IS NO OTHER PATH AVAILABLE.



**2 LIGHTING CONCRETE POLE BASE**  
 SCALE: NOT TO SCALE

**1 ELECTRICAL SITE PLAN**  
 SCALE: 1/16" = 1'-0"

Drawing File: C:\Users\chudson\appdata\local\temp\AcP\publish\_10012\ES111.dwg  
 Plotted by: chudson  
 Plotted Date: Jul 07, 2023 - 4:28pm