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ARCHITRAVE GROUP PC
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CONSULTANTS

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212 NORTH MCDOWELL STREET
SUITE 204
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PH. 704-334-7363

STRUCTURAL ENGINEER

RED ENGINEERING
126 SALEM TOWNE COURT
APEX, NC 27502
PH. 919-833-3486

CIVIL ENGINEER

THE NAU COMPANY
4244 FAWN LILY DRIVE
WAKE FOREST, NC 27587
PH. 919-435-6395

DRAWING LIST

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LOUISIANA KITCHEN

2112 PROTOTYPE
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA 28372

ABBREVIATIONS

BOH:	BACK OF HOUSE
C/W:	COMPLETE WITH
CL:	CENTER LINE
CONC:	CONCRETE
CPM:	CONSTRUCTION PROJECT MANAGER
EQ:	EQUAL
FOH:	FRONT OF HOUSE
G.C:	GENERAL CONTRACTOR
MAX.:	MAXIMUM
MIN.:	MINIMUM
N/A:	NOT APPLICABLE
O.C:	ON CENTER
P-LAM:	PLASTIC LAMINATE
S.F.C:	STORE FIXTURE COMPANY
SPEC:	SPECIFICATION
T/O:	TOP OF
TBD:	TO BE DETERMINED
TYP.:	TYPICAL
U/S:	UNDERSIDE
WRM:	WASHROOM

CODE INFORMATION

OWNER:
MOUNT OAK CAPITAL, LLC
1819 MEETING STREET, SUITE 210
CHARLESTON, SOUTH CAROLINA 29405
843-906-0882

NAME OF PROJECT:
POPEYES - 2112 MODEL

LOCATION:
503 W. 3RD STREET
STORE NUMBER: XXXX

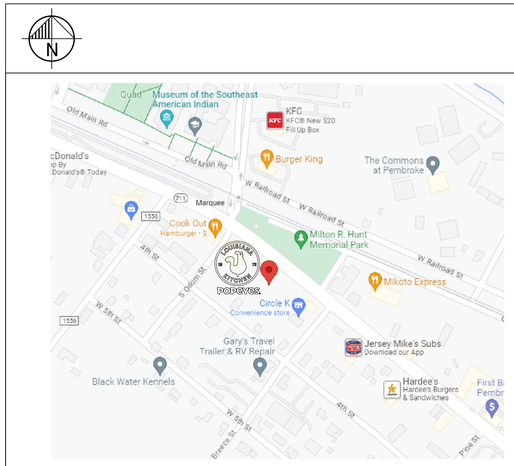
1	APPLICABLE CODES	BUILDING :	2018 NC - IBC
		PLUMBING :	2018 NC - IPC
		FIRE :	2018 NC - IFC; N.F.P.A. 13-2010; N.F.P.A. 72-2010
		MECHANICAL :	2018 NC - IMC
		ELECTRICAL :	2017 NEC W/ NC AMENDMENTS
		ACCESSIBILITY :	2018 NC IBC - CH 11 & ICC/ANSI A117.1
		ENERGY :	2018 NC - ENERGY CODE
2	ZONING CLASSIFICATION	XX	
3	OCCUPANCY CLASSIFICATION	A2 - (RESTAURANT) WITH NO MIXED USE OCCUPANCIES	
4	CONSTRUCTION TYPE	IIIB	COMBUSTIBLE MATERIALS, UNPROTECTED
5	BUILDING AREA	ALLOWED : 6,000 SQ FT.	PROVIDED : 1,997 SQ FT. (BUILDING: 1,829 SQ. FT. COOLER/FREEZER: 168 SQ. FT.)
6	BUILDING HEIGHT	ALLOWED : 40'-0" HIGH	PROVIDED : 19'-0" HIGH
7	SCOPE OF WORK STATMENT	NEW BUILD, CONSTRUCTION	
8	OCCUPANCY CALCULATIONS		

FLOOR	USE	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	NUMBER OF OCCUPANTS	NUMBER OF SEATS
1 OF 1	DINING (UNCONCENTRATED)	180 SQ. FT	1: 15	12	12
1 OF 1	DINING (STANDING)	35 SQ. FT	1: 5	7	-
1 OF 1	KITCHEN	1,155 SQ. FT	1: 200	6	-
1 OF 1	UNOCCUPIED AREAS	342 SQ. FT	-	0	-
			TOTAL NUMBER OF OCCUPANTS:	25	-

* UNOCCUPIED AREAS INCLUDE: WALK-IN FREEZER/COOLER, WALLS, CANOPIES / OVERHANGS, WASHROOM VESTIBULE, VESTIBULE AND RESTROOMS

9	EGRESS CALCULATION	TOTAL OCCUPANTS	CALCULATED MIN. EGRESS (1005.1)	MIN. EGRESS WIDTH REQUIRED	TOTAL EGRESS WIDTH PROVIDED
		25	.20" X 25 = 5"	(32" MIN.)	114"
10	EXITS	TOTAL REQUIRED : 1	TOTAL PROVIDED : 3	EGRESS WIDTH PER EXIT : 44" CLEAR	
		LOSS OF ONE REQUIRED MEANS OF EGRESS SHALL NOT REDUCE THE EGRESS CAPACITY TO LESS THAN 50% OF REQUIRED			
11	FIRE RESISTIVE REQUIREMENTS	EXTERIOR BEARING WALL :	(0 HOUR PER 705.5 FIRE SEPARATION)		
		ROOF CONSTRUCTION :	(0 HOUR)		
		CEILING :	(0 HOUR)		
12	SPRINKLER SYSTEM	___ ENTIRE BUILDING (EXISTING)	___ IN LIEU OF ROOF RATING		
		___ BASEMENT ONLY	_X_ NOT REQUIRED		
13	FIRE ALARM	NOT REQUIRED			
14	MAX. TRAVEL DISTANCE	200' (250' WITH SPRINKLER SYSTEM)			

15 PLUMBING REQUIREMENT	MALE	FEMALE
WATER CLOSETS	1 REQUIRED FOR MALE	1 REQUIRED FOR FEMALE
LAVATORIES	1 REQUIRED FOR MALE	1 REQUIRED FOR FEMALE
URINALS	NOT REQUIRED	NOT REQUIRED
DRINKING FOUNTAIN	NOT REQUIRED	NOT REQUIRED
PUBLIC ACCESS	PROVIDED	PROVIDED
UNISEX IS PERMITTED	YES	YES



KEY PLAN
N.T.S.

CONTRACTORS

CONTRACTORS ARE TO CONTACT THE CONSTRUCTION PROJECT MANAGER AS INDICATED IN THE WRITTEN SCOPE OF WORK FOR BIDDERS LIST. FOR APPROVED SUPPLIERS LIST, NATIONAL ACCOUNT PHONE NUMBERS AND CONTRACTORS REFER TO SPECIFICATION DRAWINGS.

PROJECT NO.: G23-29
POPEYES NO.: RN.XXXXX

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED BY POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".

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ARCHITRAVE GROUP PC Professional Company 52665 NEW JERSEY RED BANK

Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type	US 2112 PROTOTYPE 2112-21
Location	PROTOTYPE 2112 (U.S.) 503 W. 3RD STREET PEMBROKE, NORTH CAROLINA
Drawing Title	COVER PAGE
Drawn	JS
Checked	JS
Scale	AS NOTED
Date	8/11/23
Project No.	G23-29
Drawing No.	CS1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: **Popeyes**
Address: **503 W. 3RD Street Pembroke, North Carolina** Zip Code: **28372**
Owner/Authorized Agent: **Mr. Curtis Little – Mount Oak Capital, LLC** Phone # (843) 906-0882
E-Mail curtis@mountoakcapital.com
Owned By: Private
Code Enforcement Jurisdiction: City

CONTACT: _____

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Architrave Group PC	Jose C. Santos jsantos@architravegroup.net	12260	(732)212-0007	
Civil	The Nau Company	Jeremy J. Beckett, PE jbeckett@thenauco.com	26411	(919) 395-2775	
Electrical	Shultze Engineering	Timothy A. Payne TPayne@shultzeg.com	22106	(704)334-7363	
Fire Alarm			( )		
Plumbing	Shultze Engineering	George W. Austin Jr. BAustin@shultzeg.com	17231	(704)334-7363	
Mechanical	Shultze Engineering	George W. Austin Jr. BAustin@shultzeg.com	17231	(704)334-7363	
Sprinkler-Standpipe			( )		
Structural	Red Engineering	Brian Moscow bmoskow@redengineeringdesign.com	31434	(919)833-3486	
Retaining Walls >5' High			( )		
Other			( )		

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building
2018 NC EXISTING BUILDING CODE: N/A N/A N/A
CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____
OCCUPANCY CATEGORY (Table 1604.5): **Current:** N/A **Proposed:** II

BASIC BUILDING DATA
Construction Type: V-B
Sprinklers: No N/A
Standpipes: No
Primary Fire District: No **Flood Hazard Area:** No
Special Inspections Required: No

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		1,997	
Basement			
TOTAL		1,997	

534 ; 6Q F4Ugp 3q3wu8dyfuW rq3u8ggzWr rdE3rv# # #

ALLOWABLE AREA

Primary Occupancy Classification(s): Assembly - A-2 Select one Select one Select one Select one Select one
Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509): _____
Special Uses (Chapter 4 – List Code Sections): _____
Special Provisions: (Chapter 5 – List Code Sections): _____
Mixed Occupancy: No Separation: Select one Exception: _____

Select one
$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$
$____ + ____ + \ldots = ____ \leq 1.00$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[2] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1 (One)		1,997	6,000		

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40'	19'-0"	
Building Height in Stories (Table 504.4)	1 (One)	1 (One)	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North East		0					
South East	45.1'	0					
North West	64'	0					
South West		0					
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North East (W. 3rd Street)	66.1'	0					
South East		0					
North West		0					
South West (4th Street)	182'	0					
Interior walls and partitions		0					
Floor Construction Including supporting beams and joists		0					
Floor Ceiling Assembly		0					
Columns Supporting Floors		0					
Roof Construction, including supporting beams and joists		0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shaft Enclosures - Exit		N/A					
Shaft Enclosures - Other		N/A					
Corridor Separation		N/A					
Occupancy/Fire Barrier Separation		N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
South East – 45.1'	Unprotected, Nonsprinklered (UP, NS)	No Limit - > 30'	
North West – 64'	Unprotected, Nonsprinklered (UP, NS)	No Limit - > 30'	
South West – 182' (4th Street)	Unprotected, Nonsprinklered (UP, NS)	No Limit - > 30'	
North East – 66.1' (W. 3rd Street)	Unprotected, Nonsprinklered (UP, NS)	No Limit - > 30'	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: No
Smoke Detection Systems: Partial
Carbon Monoxide Detection: Yes

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LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A1.1

- ☐ Fire and/or smoke rated wall locations (Chapter 7)
- ☐ Assumed and real property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- ☒ Occupant loads for each area
- ☒ Exit access travel distances (1017)
- ☒ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- ☒ Dead end lengths (1020.4)
- ☒ Clear exit widths for each exit door
- ☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- ☒ Actual occupant load for each exit door
- ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- ☒ Location of doors with panic hardware (1010.1.10)
- ☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
- ☐ Location of doors equipped with hold-open devices
- ☐ Location of emergency escape windows (1030)
- ☒ The square footage of each fire area (202)
- ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A							

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
Onsite	26	20	2			2
TOTAL	26	20	2			2

Popeyes parking required = 26 spaces, Popeyes parking provided = 32 spaces (includes 50% of stack at Drive Thru Lane)

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PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G	N/A	N/A			N/A	N/A			
	NEW			1			1		N/A	N/A
	REQ'D			1			1			

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

NCHHS – North Carolina Health & Human Services (Health Department)

_____

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ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: Select one

Exempt Building: No Provide code or statutory reference:

Climate Zone: 3A

Method of Compliance: Energy Code - Prescriptive
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: Flat Roof with rigid insulation + single ply TPO roof membrane
U-Value of total assembly: 0.033
R-Value of insulation: 30
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: Nichiha Panel w/ EIFS over 2"x6" woods studs + Batt Insulation
U-Value of total assembly: 0.0526
R-Value of insulation: R-20
Openings (windows or doors with glazing)
U-Value of assembly: 0.24
Solar heat gain coefficient: 0.23
Projection factor: 0.00
Door R-Values: 0.76

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: Concrete slab on grade w/ 3" rigid insulation
U-Value of total assembly: 0.0667
R-Value of insulation: R-15
Horizontal/vertical requirement: 24" Horiz. &Vertt.
slab heated: N/A

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Wind (I_W) 1.0
Snow (I_S) 1.0
Seismic (I_E) 1.0

Live Loads: Roof 15 psf
Mezzanine N/A psf
Floor 100 psf

Ground Snow Load: 10 psf

Wind Load: Basic Wind Speed 124 mph (ASCE-7-10)
Exposure Category C

SEISMIC DESIGN CATEGORY: B
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) II
Spectral Response Acceleration S_S 0.306 %g S_1 0.121 %g
Site Classification (ASCE 7-10) D
Data Source: Field Test
Basic structural system Bearing Wall
Analysis Procedure: Equivalent Lateral Force
Architectural, Mechanical, Components anchored? N/A

LATERAL DESIGN CONTROL: Wind

SOIL BEARING CAPACITIES:
Presumptive Bearing Capicity 2,000 psf
Pile size, type, and capacity N/A

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone 3A
winter dry bulb: 16
summer dry bulb: 93

Interior design conditions
winter dry bulb: 72
summer dry bulb:75
relative humidity: 50

Building heating load: 147.3 MBH

Building cooling load: 236.9 MBH

Mechanical Spacing Conditioning System
Unitary
description of unit: See drawing schedules
heating efficiency: See drawing schedules
cooling efficiency: See drawing schedules
size category of unit: See drawing schedules
Boiler N/A
Size category. If oversized, state reason.: _____
Chiller N/A
Size category. If oversized, state reason.: _____

List equipment efficiencies: See drawing schedules

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code - Prescriptive

Lighting schedule (each fixture type)

lamp type required in fixture	**See Lighting Fixture Schedule**
number of lamps in fixture	**See Lighting Fixture Schedule**
ballast type used in the fixture	**See Lighting Fixture Schedule**
number of ballasts in fixture	**See Lighting Fixture Schedule**
total wattage per fixture	**See Lighting Fixture Schedule**
total interior wattage specified vs. allowed	**1.4 kva vs. 1.7 kva**
total exterior wattage specified vs. allowed	**2.1 kva vs. 2.8 kva**

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☑ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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VA 0159222 NC 12260NCF 52665
JOSE C. SANTOS 12260 REGISTERED ARCHITECT
ARCHITRAVE GROUP PC Professional Company 52665 RED BANK NJ

Project
LOUISIANA KITCHEN 1972
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
APPENDIX B

Drawn	Checked
JS	JS
Scale	**Date**
AS NOTED	8/11/23
Project No.	**Drawing No.**
G23-29	CS2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

X

SXXX | NOT USED | SCALE:

X

SXXX | NOT USED | SCALE:

X

SXXX | NOT USED | SCALE:

X

SXXX | NOT USED | SCALE:

3

S001 | MATERIAL SPECIFICATIONS | SCALE: N/A

MATERIAL SPECIFICATION

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF:
   a. ACI 318–19 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   b. ACI 301–20 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
   c. ACI 117–10 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."
   d. ACI 211.1–09 "STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL, HEAVYWEIGHT, AND MASS CONCRETE – PROCEDURE FOR MIX DESIGN"
   e. CRSI 2018 "MANUAL OF STANDARD PRACTICE, 29TH ED."
   f. CONCRETE MIXTURES SHALL HAVE THE FOLLOWING PROPERTIES:
      i. INTERIOR SLABS–ON–GRADE
         a. NORMAL WEIGHT CONCRETE = 145pcf MAX
         b. MIN. 28–DAY COMPRESSIVE STRENGTH = 4000psi
         c. CLASSIFIED AS EXPOSURE CLASS F0
         d. NOMINAL MAXIMUM AGGREGATE SIZE = $\frac{3}{4}$"
         e. MAX. WATER/CEMENT RATIO = N/A
         f. TARGET AIR CONTENT = N/A
   g. STEEL REINFORCEMENT SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
      i. REINFORCING BARS (ASTM A615), GRADE 60, DEFORMED
      ii. PLAIN–STEEL WELDED WIRE REINFORCEMENT (ASTM A185), FLAT SHEETS ONLY

2. ALL ROUGH CARPENTRY SHALL CONFORM TO THE REQUIREMENTS OF:
   a. NDS–2015, NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION
      i. ALL SOLID SAWN LUMBER SHALL BE SPF–S #2 OR BETTER (Fb=775psi, Ft=350psi, Fv=135psi, E=1,100,000psi) U.N.O.
   b. AWPA–P5, STANDARD FOR WATERBORNE PRESERVATIVES
      i. ALL SOLID SAWN LUMBER DESIGNATED "PT" SHALL BE PRESERVATIVELY TREATED (AWPA UC4A GROUND CONTACT – GENERAL USE) SYP#2 OR BETTER, U.N.O.
   c. NAILS (ASTM F1667–15)
      i. 16d COMMON – 0.162" DIA. x $3\frac{1}{2}$" LENGTH
      ii. 10d COMMON – 0.148" DIA. x 3" LENGTH
      iii. 8d COMMON – 0.131" DIA. x $2\frac{1}{2}$" LENGTH

3. ALL STRUCTURAL COMPOSITE LUMBER SHALL CONFORM TO THE REQUIREMENTS OF:
   a. ASTM D5456, STANDARD SPECIFICATION FOR STRUCTURAL COMPOSITE LUMBER.
   b. MINIMUM DESIGN VALUES
      i. LVL: Fb=2600psi, Ft=1555psi, Fc=750psi (PERPENDICULAR), Fc=2510psi (PARALLEL), Fv=285psi, E=2,000,000psi, SG=0.50, U.N.O.

4. ALL PRE–ENGINEERED WOOD TRUSSES SHALL BE IN ACCORDANCE WITH:
   a. ANSI/TPI 1–2014, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION."

5. ALL POST–INSTALLED MECHANICAL ANCHORAGE INTO CRACKED OR UNCRACKED CONCRETE SHALL BE IN ACCORDANCE WITH:
   a. ACI 355.2 & ICC–ES AC193, ACCEPTANCE CRITERIA FOR MECHANICAL ANCHORS IN CONCRETE ELEMENTS

6. ALL POST–INSTALLED ADHESIVE ANCHORAGE INTO CRACKED OR UNCRACKED CONCRETE SHALL BE IN ACCORDANCE WITH:
   a. ACI 355.4 & ICC–ES AC308, ACCEPTANCE CRITERIA FOR POST–INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS.
   b. ALL ADHESIVE ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER.

4

S001 | SUBMITTALS | SCALE: N/A

SUBMITTALS

1. SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED TO RED ENGINEERING & DESIGN, INC. FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THESE SUBMITTALS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS IS NOT THE RESPONSIBILTY OF RED ENGINEER & DESIGN, INC.

2. CONTRACTOR SHALL ALLOW 15 DAYS FOR INITIAL REVIEW OF EACH SUBMITTAL. TIME FOR REVIEW SHALL COMMENCE UPON RED ENGINEERING & DESIGN'S RECEIPT OF SUBMITTAL.

3. CONTRACTOR SHALL HIGHLIGHT, ENCIRCLE, OR OTHERWISE SPECIFICALLY IDENTIFY DEVIATIONS FROM THE CONTRACT DOCUMENTS ON SUBMITTALS.

4. CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER TRADES AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. NOTE CORRECTIONS AND FIELD DIMENSIONS. MARK WITH APPROVAL STAMP BEFORE SUBMITTING TO RED ENGINEERING & DESIGN, INC. STAMP SHALL INCLUDE NAME OF REVIEWER, DATE OF CONTRACTOR'S APPROVAL, AND STATEMENT CERTIFYING THAT SUBMITTAL HAS BEEN REVIEWED, CHECKED, AND APPROVED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.

5. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS LIMITED TO COMPLIANCE OF THE COMPLETED STRUCTURE WITH THE DESIGN CONCEPT AND INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, QUANTITIES, PERFORMANCE, SAFETY, COORDINATION WITH OTHER WORKS, AND ALL OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS. REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT.

6. THE FOLLOWING DEFERRED SUBMITTALS ARE REQUIRED FOR THIS PROJECT:
   a. METAL PLATE CONNECTED WOOD TRUSSES
      i. SUBMIT SHOP DRAWINGS, INCLUDING DESIGN CALCULATIONS, MEMBER FORCES AND CONTROL POINTS, FOR REVIEW PRIOR TO FABRICATION, SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   b. PRE–ENGINEERED AWNINGS
      i. SUBMIT SHOP DRAWINGS, INCLUDING DESIGN CALCULATIONS, MEMBER FORCES AND CONTROL POINTS, FOR REVIEW PRIOR TO FABRICATION, SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

X

SXXX | NOT USED | SCALE:

X

SXXX | NOT USED | SCALE:

1

S001 | GENERAL NOTES | SCALE: N/A

GENERAL CONSTRUCTION SPECIFICATION

1. THE FOLLOWING DOCUMENTS ARE THE PROPERTY OF RED ENGINEERING & DESIGN, INC. FOR USE SOLELY FOR THIS PROJECT AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR OTHER PURPOSES WITHOUT WRITTEN PERMISSION FROM RED ENGINEERING & DESIGN, INC.

2. NO OTHER PARTY MAY REVISE, ALTER, OR DELETE THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN PERMISSION FROM RED ENGINEERING & DESIGN, INC.

3. THIS STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE. TEMPORARY SHORING AND BRACING METHODS ARE NOT THE RESPONSIBILITY OF RED ENGINEERING & DESIGN, INC. AND ARE BEYOND THE SCOPE OF THESE DRAWINGS.

4. THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONSTRUCTION DOCUMENTS, SHOULD ANY NON–CONFORMITIES OCCUR.

5. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE SER. SHOULD ANY DISCREPANCIES BECOME APPARENT THE CONTRACTOR SHALL NOTIFY RED ENGINEERING & DESIGN, INC. BEFORE ANY CONSTRUCTION BEGINS.

6. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO RED ENGINEERING & DESIGN, INC. BEFORE CONSTRUCTION BEGINS.

7. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON–STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.

2

S001 | DESIGN CRITERIA | SCALE: N/A

DESIGN CRITERIA

1. BUILDING CODES
   a. NORTH CAROLINA BUILDING CODE 2018 EDITION
   b. MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES, ASCE 7–10

2. DEAD LOAD
   ROOF 15 PSF

3. LIVE LOAD
   ROOF 20 PSF
   FLOOR SLAB–ON–GRADE 100 PSF

4. SOIL LOADS
   MIN ALLOWABLE SOIL BEARING PRESSURE 2000 PSF
   SUBGRADE MODULUS, K 100 PCI (ASSUMED)
   UNIT WEIGHT OF SOIL 125 PCF

5. SNOW LOAD
   SNOW IMPORTANCE FACTOR, Is 1.0
   GROUND SNOW LOAD, Pg 10 PSF
   SNOW EXPOSURE FACTOR, Ce 1.0
   THERMAL FACTOR, Ct 1.0
   ROOF SLOPE FACTOR, Cs 1.0
   BALANCED SNOW LOAD, Pf(bal) 10.5 PSF
   DESIGN ROOF SNOW LOAD, Pdes 10.5 PSF

6. WIND LOADS
   ANALYSIS PROCEDURE ANALYTICAL PROCEDURE
   WIND SPEED, V (3 SECOND GUST) 124 MPH (ULTIMATE)
   RISK CATEGORY II
   EXPOSURE B
   TOPOGRAPHY FACTOR, Kzt 1.0
   INTERNAL PRESSURE COEFFICIENT, GCpi +–0.18
   APPLIED DIRECTIONALITY FACTOR, Kd 0.85
   WIND BASE SHEAR
   Wx 10.2 KIPS
   Wy 14.9 KIPS

7. SEISMIC LOADS
   ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
   RISK CATEGORY II
   SEISMIC IMPORTANCE FACTOR Ie 1.0
   SOIL SITE CLASS D (ASSUMED)
   MAPPED SPECTRAL RESPONSE ACCELERATION, Ss 0.306
   MAPPED SPECTRAL RESPONSE ACCELERATION, S1 0.121
   LONG–PERIOD TRANSITION PERIOD, Tl 8 SEC.
   SEISMIC FORCE RESISTING SYSTEM BEARING WALL SYSTEM, Sx – LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE Sy – LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
   SEISMIC DESIGN CATEGORY C
   SEISMIC BASE SHEAR
   Sx 1.3 KIPS
   Sy 1.3 KIPS

NORTH CAROLINA PROFESSIONAL SEAL 31434 ENGINEER BRIAN MOSKOW

08.21.23

RED PROJ #: 23–E095

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ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

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Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
GENERAL NOTES
SPECIFICATIONS

Drawn	Checked
RED	BM
Scale	Date
VARIES	08.21.23
Project No.	Drawing No.
G23-29	S001

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

X

SXXX NOT USED SCALE:

3

S002 SCHEDULE SCALE: N/A

WOOD WALL OPENING SCHEDULE

MARK	MEMBERS								CONNECTIONS	
	HEADER		KING STUDS (EA.END)		JACK STUDS (EA.END)		SILL (IF APPLICABLE)		HEADER	SILL
	SIZE	MAX SPAN	SIZE	MAX HEIGHT	SIZE	MAX HEIGHT	SIZE	MAX SPAN		
WH1	3 ~ 2 x 6	4'-0	2 ~ 2 x 6	11'-5	2 ~ 2 x 6	9'-4	ONE ~ 2 x 6	4'-0	5A/S302	5B/S302
WH2	3 ~ 2 x 10	6'-0	2 ~ 2 x 6	11'-5	2 ~ 2 x 6	9'-4	ONE ~ 2 x 6	6'-0	5A/S302	5B/S302

NOTES:
1.) ALL SOLID SAWN MEMBERS TO BE SPF SOUTH #2 OR BETTER.
2.) ALL LVL MEMBERS TO BE Fb = 2600 PSI MINIMUM, E = 1.9M PSI (1.9E) MINIMUM.
3.) SEE 4/S302 FOR ADDITIONAL REQUIREMENTS AND DETAILS.

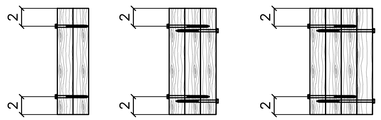
WOOD SHEAR WALL SCHEDULE

MARK	MEMBERS					CONNECTIONS								
	SHEATHING (NOTE 1)		END POSTS (NOTE 2)		BLOCKING REQ'D?	NAILS (NOTE 3)		SILL PLATE ANCHORS (NOTE 5)			END POST HOLD-DOWNS (NOTE 4)			
	NOMINAL THICKNESS	SPAN RATING	SIZE	QTY		FIELD	EDGE	MANUF & MODEL	MAX SPACING	MINIMUM EMBEDMENT	HOLDDOWN MANUF & MODEL	ANCHOR ROD SIZE	ADHESIVE MANUF & TYPE	MINIMUM EMBEDMENT
SW1	7/16"	24/16	2 x 6	2	NO	10d COMMON @ 12"o.c.	10d COMMON @ 6"o.c.	SIMPSON STRONG TIE $\frac{1}{2}$"ø TITEN HD	4'-0	3"	SIMPSON STRONG TIE HDU4-SDS2.5	$\frac{5}{8}$"ø	SIMPSON STRONG TIE SET ADHESIVE	6"
SW2	7/16"	24/16	2 x 6	3	NO	10d COMMON @ 12"o.c.	10d COMMON @ 4"o.c.	SIMPSON STRONG TIE $\frac{1}{2}$"ø TITEN HD	4'-0	3"	SIMPSON STRONG TIE HDU8-SDS2.5	$\frac{7}{8}$"ø	SIMPSON STRONG TIE SET ADHESIVE	6"

NOTES:
1.) ALL WOOD STRUCTURAL PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, U.N.O.
2.) ALL LUMBER SHALL BE SPF(S) #2 OR BETTER (FB=775psi, Ft=350psi, Fv=135psi, E=1,100,000psi). SEE MULTIPLE-PLY MEMBER ATTACHMENT SCHEDULE.
3.) PANEL EDGE IS DEFINED AS DOUBLE TOP PLATES, SILL PLATE, HORIZONTAL BLOCKING, EACH END POST AND STUDS AT ALL VERTICAL SEAMS.
4.) ALL ANCHOR RODS SHALL BE F1554 Gr.36 MIN. ALTERNATIVE HOLD-DOWNS, ADHESIVES & ANCHOR TYPES MUST BE APPROVED BY EOR.
5.) SILL PLATE ANCHORS SHALL BE WITHIN 12" EACH SIDE OF SPLICE.
6.) SEE WOOD SHEAR WALL ELEVATION ON 1/S304 FOR ADDITIONAL REQUIREMENTS.

1

S002 SCHEDULE SCALE: N/A



MULTIPLE PLY MEMBER ATTACHMENT SCHEDULE

NUMBER OF PLIES	FASTENER			
	TYPE	# OF ROWS (NOTE 2)	o.c. SPACING	LOCATION (NOTE 1)
2	10d COMMON	3	12"	ONE SIDE
	16d COMMON	3	12"	ONE SIDE
	SDS $\frac{1}{4}$" x 3$\frac{1}{2}$"	3	12"	ONE SIDE
3	10d COMMON	3	12"	BOTH SIDES
	16d COMMON	3	12"	BOTH SIDES
	SDS $\frac{1}{4}$" x 4$\frac{1}{2}$"	3	12"	BOTH SIDES
4	SDS $\frac{1}{4}$" x 6	3	12"	BOTH SIDES
	1"ø x 8" A307 THROUGH-BOLT	3	24"	ONE SIDE

NOTES:
1.) WITH FASTENERS ON BOTH SIDES, STAGGER FASTENERS ON OPPPOSITE SIDE OF HEADER BY ONE HALF OF THE REQUIRED SPACING.
2.) AN ADDITIONAL ROW OR FASTENERS IS REQUIRED FOR HEADERS WITH DEPTHS OF 14" AND GREATER.
3.) FASTENERS MUST PENTRATE A MINIMUM OF 1$\frac{1}{2}$" INTO OUTERMOST PLY.

WALL SCHEDULE

MARK	STUD SIZE	SPACING	BRIDGING/ BLOCKING	NOTES
W1	2 x 6	16" o.c.	N/A	1, 2

NOTES:
1.) WALL SHEATHING TO BE 7/16" APA RATED 24/16 – EXPOSURE 1. SEE SECTION 7/S302 FOR ATTACHMENT.
2.) ATTACH PT SILL PLATE TO SLAB w/ $\frac{1}{2}$"ø TITEN HD @ 48" o.c. (3$\frac{1}{4}$" EMBED), TYP, U.N.O. SEE SHEAR WALL SCHEDULE FOR SILL PLATE ANCHOR SPACING @ SHEAR WALLS.

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

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DRAWINGS REVISED AS PER DESIGN BULLETIN

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PROJECT NORTH

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Company Logo

X

SXXX NOT USED SCALE:

4

S002 SCHEDULE SCALE: N/A

2

S002 SCHEDULE SCALE: N/A

X

SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

NORTH CAROLINA PROFESSIONAL SEAL 31434 ENGINEER BRIAN MOSKOW
08.21.23

RED PROJ #: 23-E095

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C-3479

Project

LOUISIANA KITCHEN 19 72
POPEYES

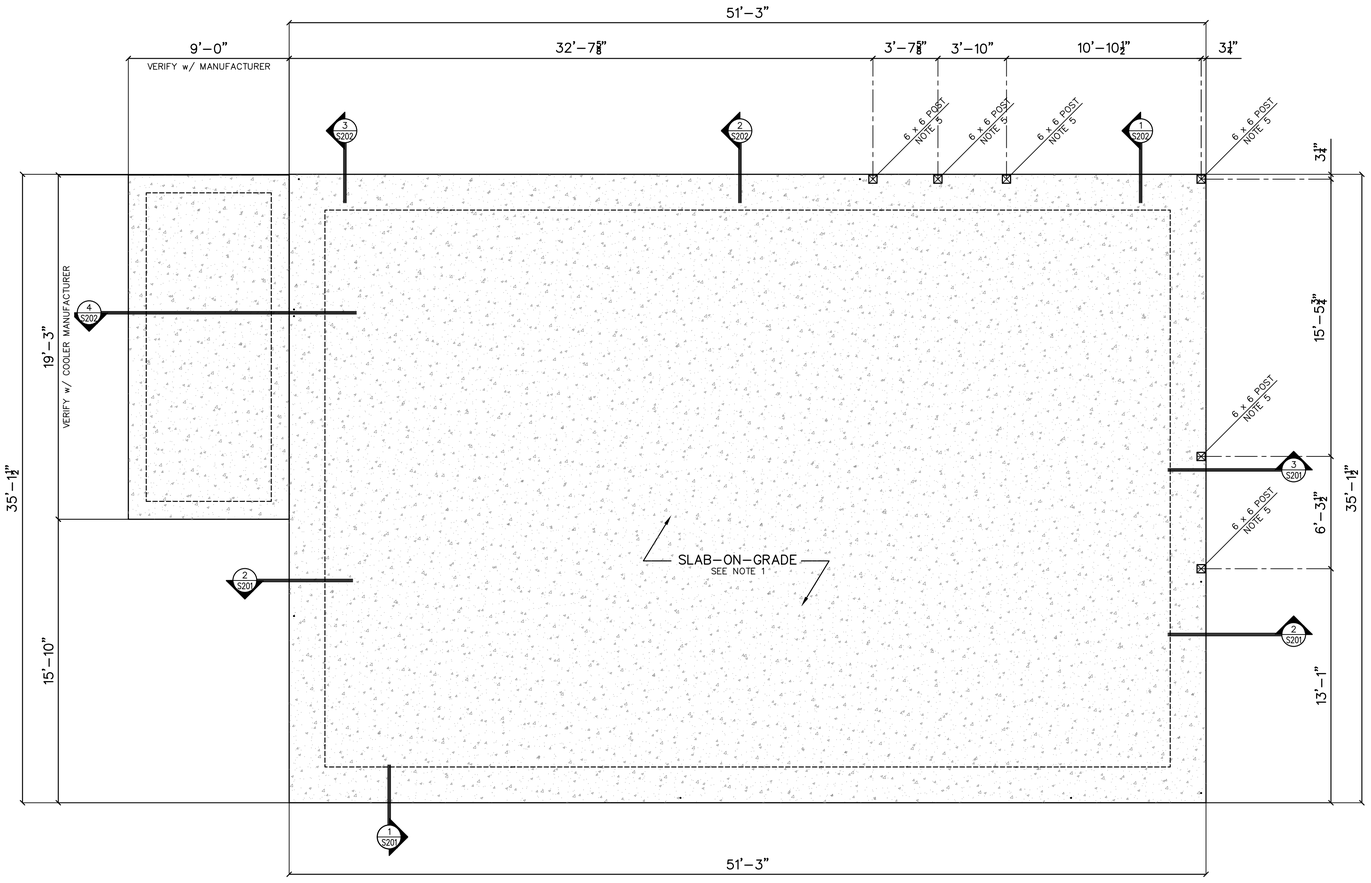
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
SCHEDULES

Drawn	Checked
RED	BM
Scale	Date
VARIES	08.21.23
Project No.	Drawing No.
G23-29	S002

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



NOTES:
1.) FLOOR SLAB ON GRADE IS 4" THICK NORMAL WEIGHT CONCRETE WITH 6x6–W2.1xW2.1 WELDED WIRE FABRIC ON A POROUS GRAVEL AND VAPOR BARRIER (UNO). SEE DETAIL 3/S301.
2.) CONTRACTOR SHALL VERIFY AND COORDINATE THE LOCATION, SIZE, TYPE AND DIRECTION OF ALL THICKENED SLABS, PADS, DEPRESSIONS, RECESSED SLABS, BOLTS, SLEEVES, ANCHORS, INSERTS, OPENINGS, ETC. TO BE SET OR CAST IN CONCRETE, PRIOR TO CONCRETE PLACEMENT.
3.) CONTRACTOR TO LAY CONTROL JOINTS. SEE DETAIL 4/S301.
4.) ALL DIMENSIONS TO EDGE OF SLAB, U.N.O.
5.) SEE DETAIL 5/S301 FOR POST BASE CONNECTION.

1
S101 SLAB–ON–GRADE PLAN

SCALE: ¼" = 1'–0

ISSUE TABLE

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Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
SLAB-ON-GRADE PLAN

Drawn	Checked
RED	BM
Scale	Date
VARIES	08.21.23
Project No.	Drawing No.
G23-29	S101

NORTH CAROLINA PROFESSIONAL SEAL 31434 ENGINEER BRIAN MOSKOW
08.21.23

RED PROJ #: 23–E095

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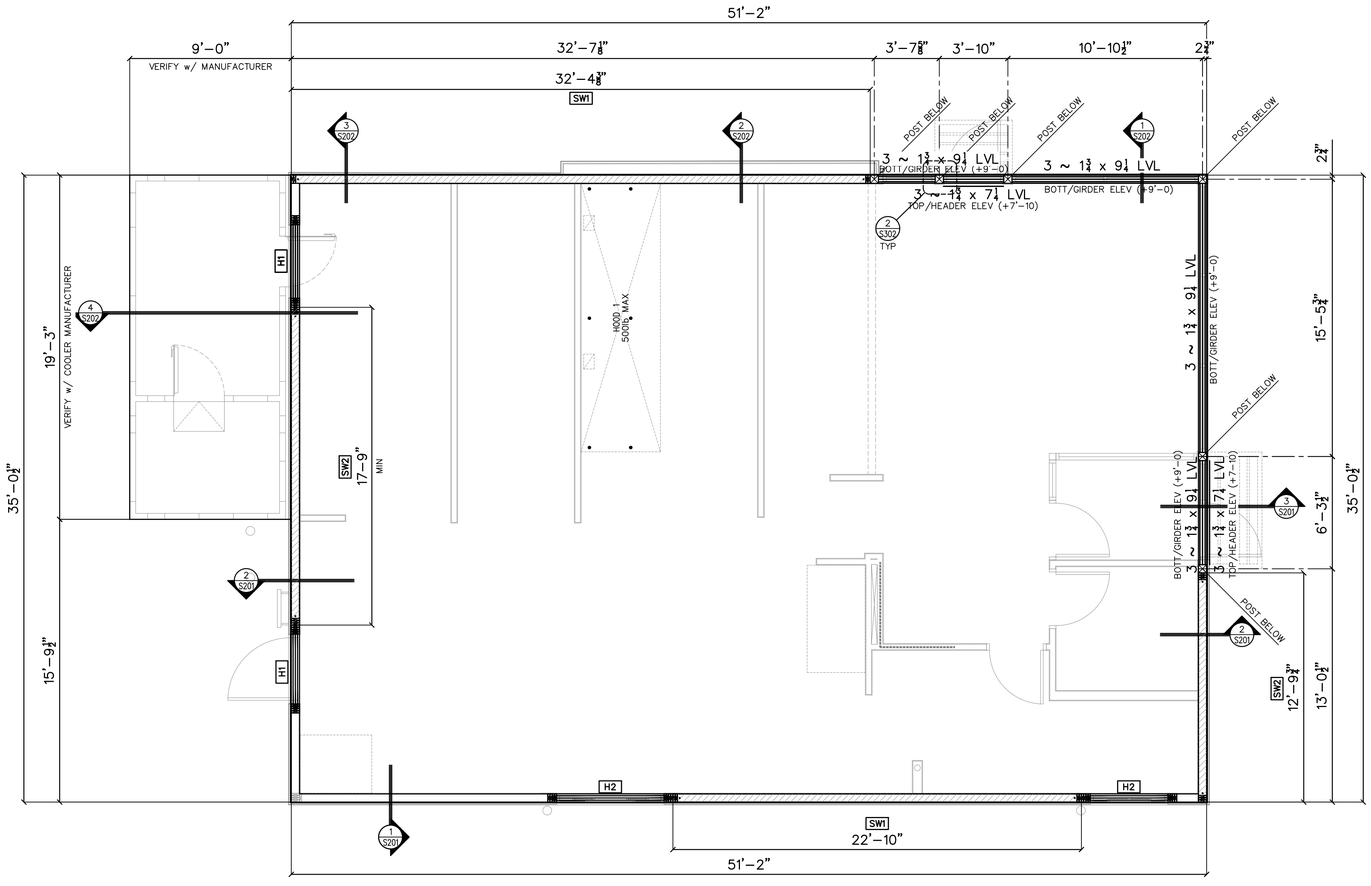
C-3479

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC; 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



NOTES:
1.) ALL DIMENSIONS TO OUTSIDE FACE OF STUD, U.N.O.
2.) ALL EXTERIOR WALL TYPES SHALL BE "W1", U.N.O. SEE SCHEDULE ON S002 FOR DETAILS.
3.) T/BRG WALL ELEV (+11'–5).
4.) SWX DENOTES SHEAR WALL TYPE. SEE SCHEDULE ON S002.

1
S102 WALL FRAMING PLAN

SCALE: ¼" = 1'–0

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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JOSE C. SANTOS, RA - NJ AI18745
NY 035006 DE SS-0007774
VA 015922 NC 12260 NCF 52685

Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
WALL FRAMING PLAN

Drawn	Checked
RED	BM
Scale	Date
VARIES	08.21.23
Project No.	Drawing No.
G23-29	S102

NORTH CAROLINA PROFESSIONAL SEAL 21434 ENGINEER BRIAN MOSKOW
08.21.23

RED PROJ #: 23–E095

RED ENGINEERING & DESIGN
STRUCTURAL ENGINEERS
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APEX, NORTH CAROLINA 27502
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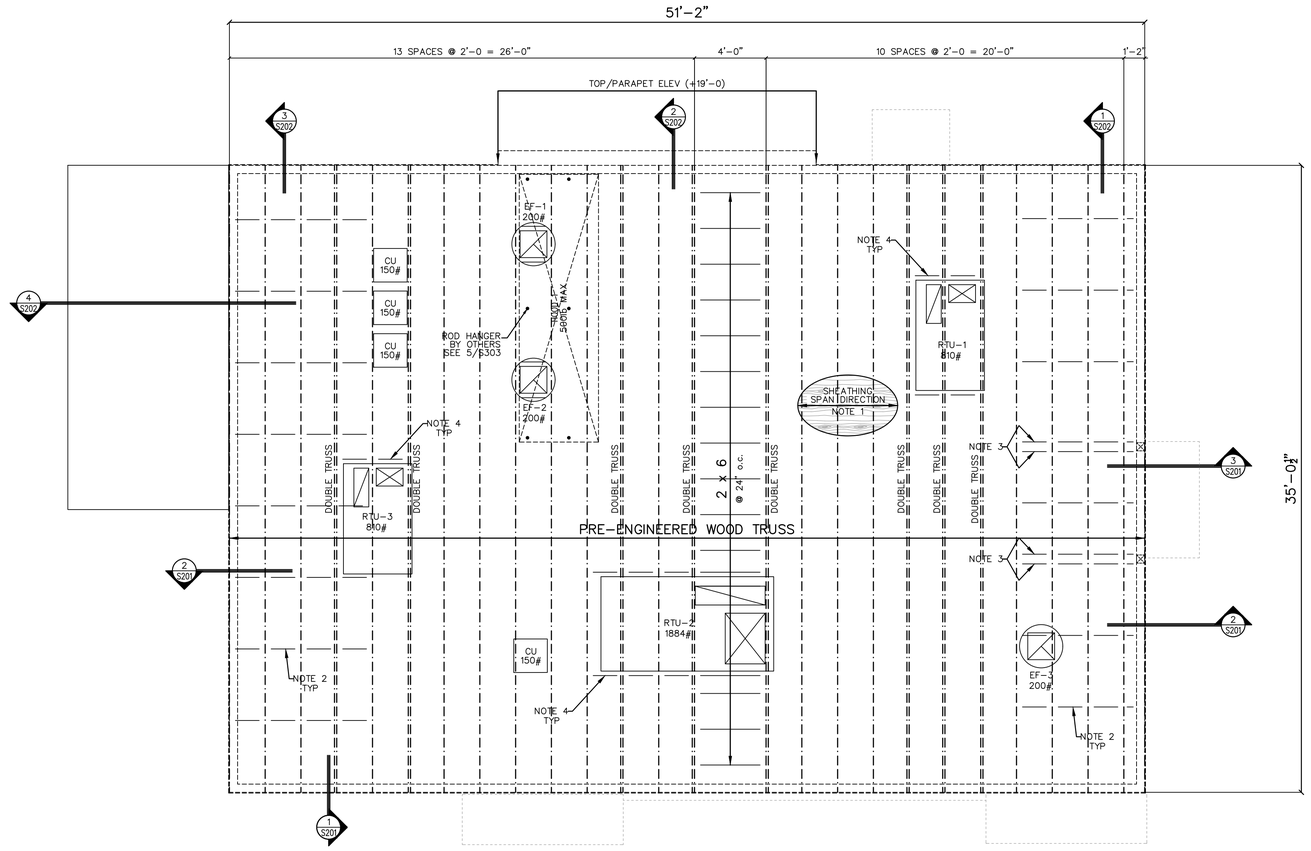
REDENGINEERINGDESIGN.COM
C-3479

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENT'S STORE NO. 14185



NOTES:
1.) ROOF SHEATHING TO BE 7/16" APA RATED 48/24 – EXPOSURE 1 WITH PANEL CLIPS. SEE SECTION 4/S303 FOR ATTACHMENT.
2.) PROVIDE 2 x 6 BLOCKING AT TOP & BOTTOM CHORD AT 4'-0 o.c. EXTEND BLOCKING A MINIMUM OF 4 TRUSS SPACES FROM END WALL. ROOF SHEATHING TO BE ATTACHED TO BLOCKING w/ 10d COMMON @ 4" o.c. SEE DETAIL 6/S303.
3.) PROVIDE 2 x 6 BLOCKING AT TOP & BOTTOM CHORD AT EACH FULL HEIGHT WOOD POST LOCATION. EXTEND BLOCKING A MINIMUM OF 4 TRUSS SPACES FROM END WALL. ROOF SHEATHING TO BE ATTACHED TO BLOCKING w/ 10d COMMON @ 4" o.c. SEE DETAIL 6/S303.
4.) PROVIDE 2 x 6 BLOCKING BELOW ALL EQUIPMENT CURBS,TYP. SEE DETAIL 6/S303.
5.) TOP/PARAPET WALL ELEV (+18'-0), U.N.O.
6.) ALL DIMENSIONS TO OUTSIDE FACE OF STUD, U.N.O.

1
S103 ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ROOF FRAMING PLAN

Drawn	Checked
RED	BM
Scale	Date
VARIES	08.21.23
Project No.	Drawing No.
G23-29	S103

NORTH CAROLINA PROFESSIONAL SEAL 31434 ENGINEER BRIAN N MOSKOW
08.21.23

RED PROJ #: 23-E095

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POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

X

SXXX NOT USED SCALE:

X

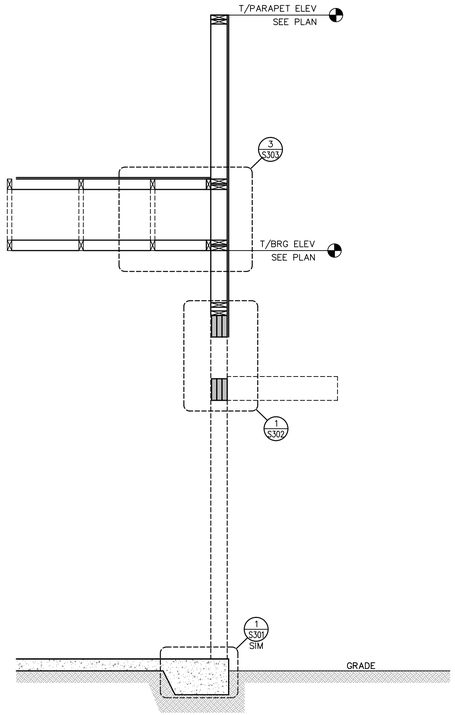
SXXX NOT USED SCALE:

X

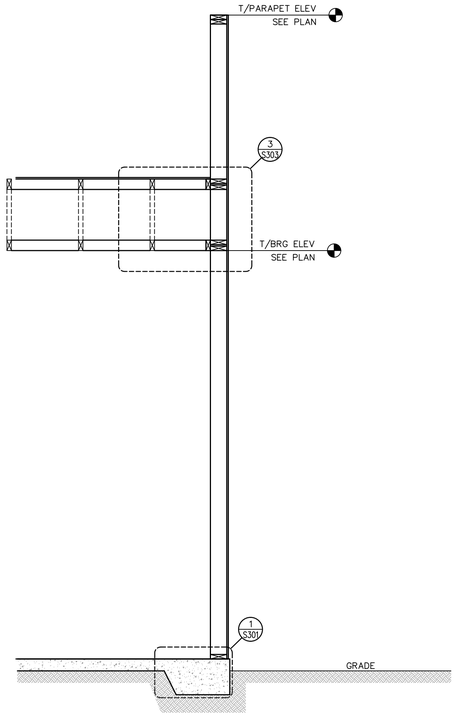
SXXX NOT USED SCALE:

X

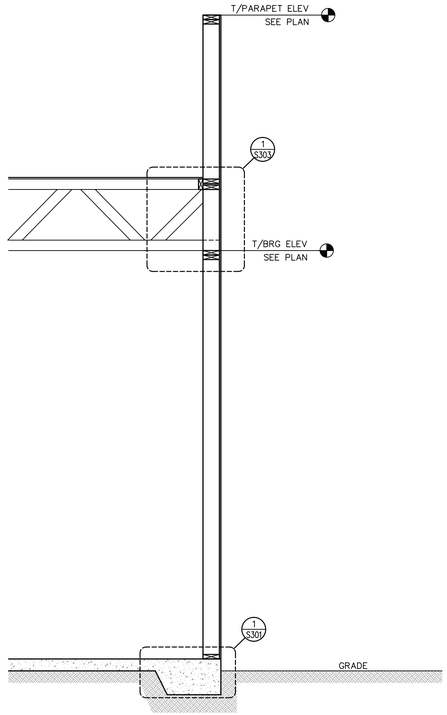
SXXX NOT USED SCALE:



3 S201 SECTION SCALE: ½" = 1'-0



2 S201 SECTION SCALE: ½" = 1'-0



1 S201 SECTION SCALE: ½" = 1'-0

X

SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

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No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

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PROJECT NORTH

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Project

POPEYES LOUISIANA KITCHEN 1972

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
WALL SECTIONS

Drawn	Checked
RED	BM
Scale: VARIES	Date: 08.21.23
Project No.: G23-29	Drawing No.: S201

NORTH CAROLINA PROFESSIONAL SEAL 31434 ENGINEER BRIAN M MOSKOW
08.21.23

RED PROJ #: 23-E095

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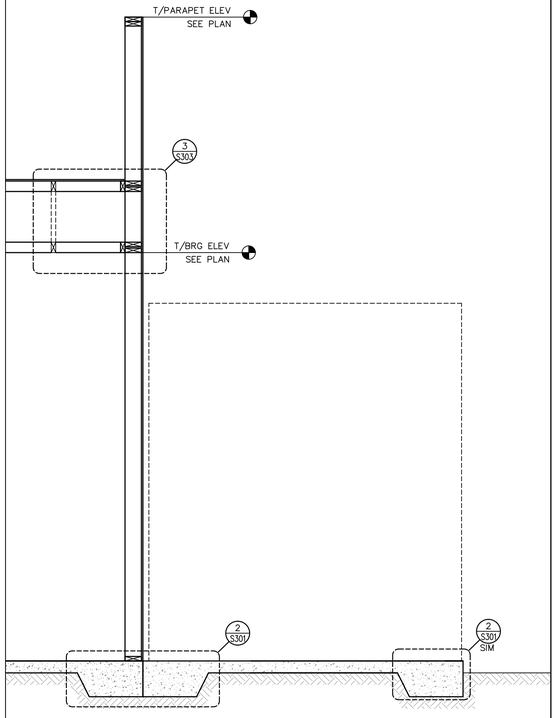
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



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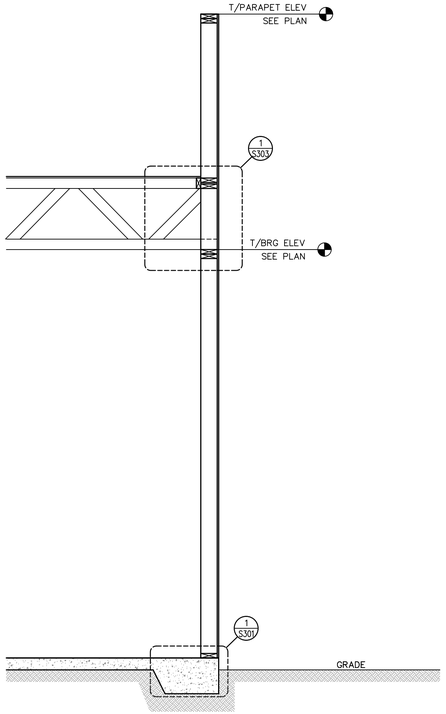
S202 SECTION SCALE: ½" = 1'–0



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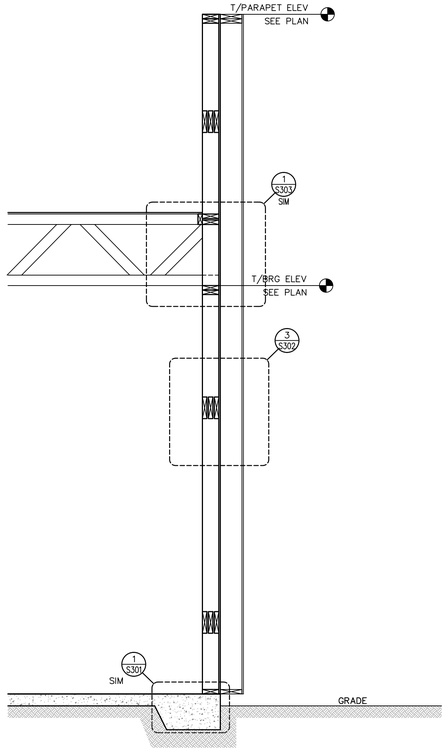
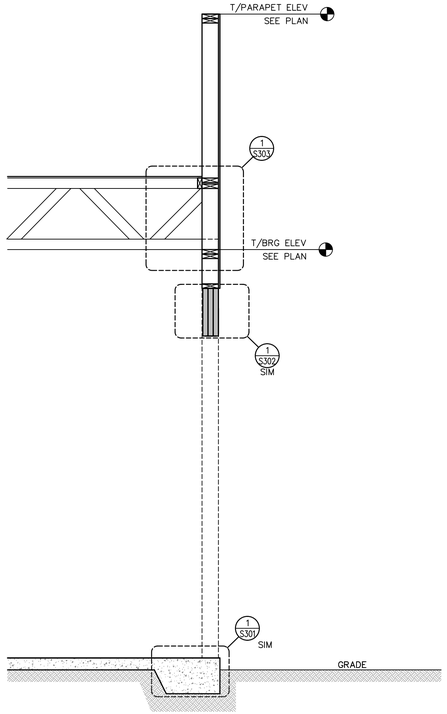
S202 SECTION SCALE: ½" = 1'–0



2

S202 SECTION SCALE: ½" = 1'–0



1

S202 SECTION SCALE: ½" = 1'–0

X

SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
WALL SECTIONS

NORTH CAROLINA PROFESSIONAL SEAL 31434 ENGINEER BRIAN MOSKOW
08.21.23

RED PROJ #: 23–E095

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Drawn	Checked
RED	BM
Scale	Date
VARIES	08.21.23
Project No.	Drawing No.
G23-29	S202

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

X

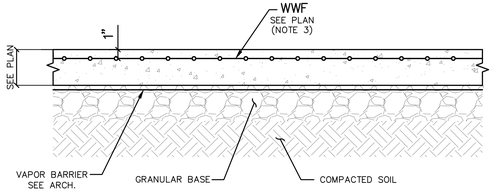
SXXX | NOT USED | SCALE:

X

SXXX | NOT USED | SCALE:

3

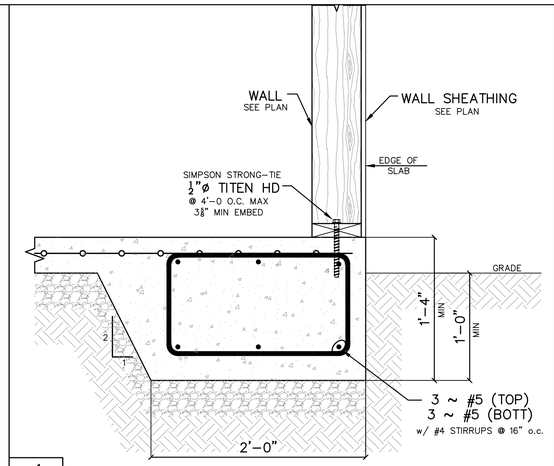
S301 | DETAIL | SCALE: N/A



NOTES:
1.) UNLESS OTHERWISE NOTED, PROVIDE AN OVERALL SLAB FLATNESS (Ff) VALUE OF 19 AND A MINIMUM LOCAL SLAB FLATNESS (Ff) VALUE OF 13.
2.) UNLESS OTHERWISE NOTED, PROVIDE AN OVERALL SLAB LEVELNESS (Fl) VALUE OF 13 AND A MINIMUM LOCAL SLAB LEVELNESS (Fl) VALUE OF 10.
3.) POLYPROPYLENE SYNTHETIC FIBER ADDITIVES PERMITTED TO BE USED IN LIEU OF WWF. DOSAGE SHALL BE IN ACCORDNACE WITH MANUFACTURER'S RECOMMENDATIONS (1.5#/CU.YD. MINIMUM).

1

S301 | DETAIL | SCALE: N/A



X

SXXX | NOT USED | SCALE:

X

SXXX | NOT USED | SCALE:

4

S301 | DETAIL | SCALE: N/A

NOTES:
1.) IF CONCRETING IS INTERRUPTED LONG ENOUGH FOR THE PLACED CONCRETE TO HARDEN, PROVIDE A CONSTRUCTION JOINT AS SHOWN ON THIS DETAIL. CONSTRUCTION JOINTS SHALL NOT BE PLACED CLOSER THAN 5'-0 FROM ANY JOINT TO WHICH THEY ARE PARALLEL. THE USE OF ALTERNATE CONSTRUCTION JOINTS PER ACI 302.1R-15 MAY BE USED WITH APPROVAL FROM RED ENGINEERING & DESIGN, INC.

2

S301 | DETAIL | SCALE: N/A

X

SXXX | NOT USED | SCALE:

X

SXXX | NOT USED | SCALE:

5

S301 | DETAIL | SCALE: N/A

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

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DRAWINGS REVISED AS PER DESIGN BULLETIN

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PROJECT NORTH

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Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
FOUNDATION/SLAB DETAILS

Drawn	Checked
RED	BM
Scale	Date
VARIES	08.21.23
Project No.	Drawing No.
G23-29	S301

NORTH CAROLINA PROFESSIONAL SEAL 037434 ENGINEER BRIAN MOSKOW

08.21.23

RED PROJ #: 23-E095

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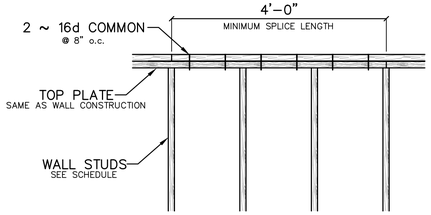
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

X

SXXX NOT USED SCALE:

6

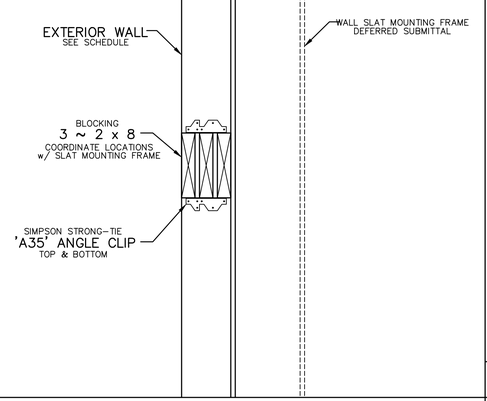
S302 DETAIL SCALE: N/A



NOTES:
1.) DETAIL APPLIES AT ALL BEARING WALLS.

3

S302 DETAIL SCALE: N/A



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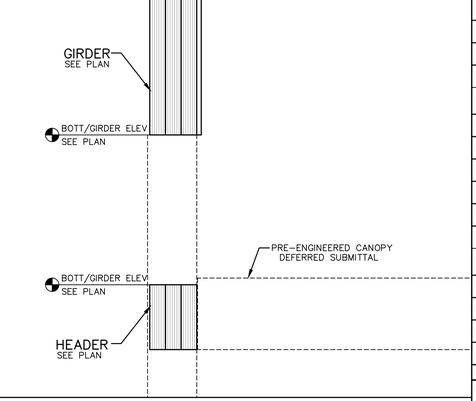
S302 DETAIL SCALE: N/A



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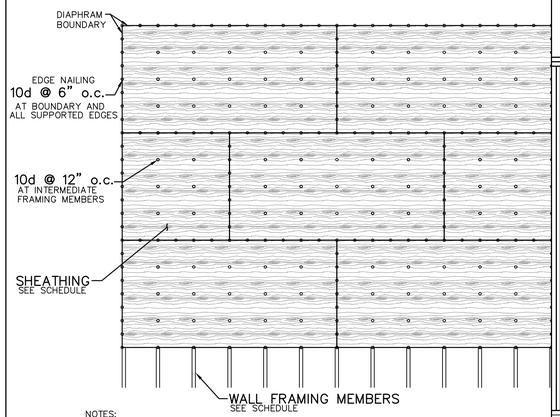
X

SXXX NOT USED SCALE:

7

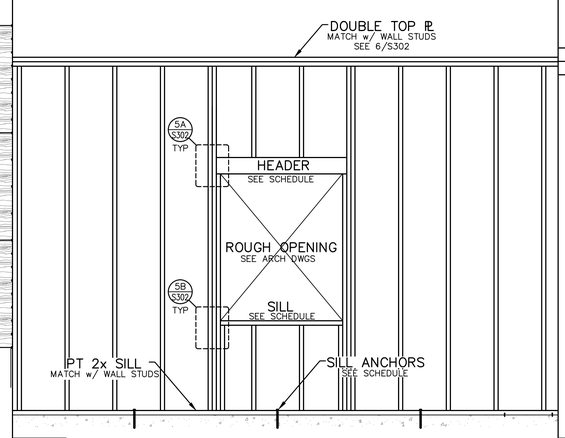
S302 DETAIL SCALE: N/A



NOTES:
1.) STAPLES OR PNEUMATIC DRIVEN NAILS MAY BE USED IN LIEU OF COMMON NAILS PROVIDED THEY PROVIDE AN EQUIVALENT CROSS SECTIONAL AREA.
2.) MINIMUM NAIL PENETRATION INTO FRAMING TO BE 1⅛".

4

S302 DETAIL SCALE: N/A



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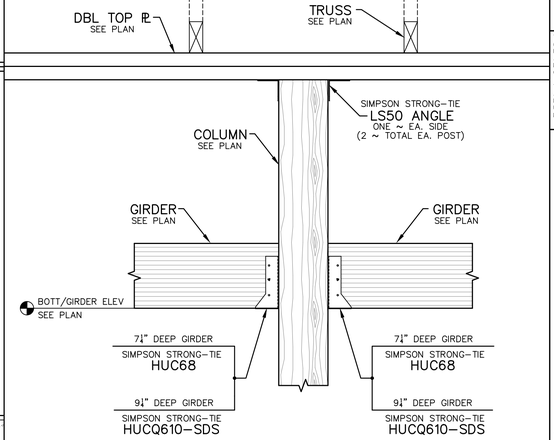
S302 DETAIL SCALE: N/A



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NY 035006 DE 35-0007774
VA 015922 NC 12260 NCF 52865

X

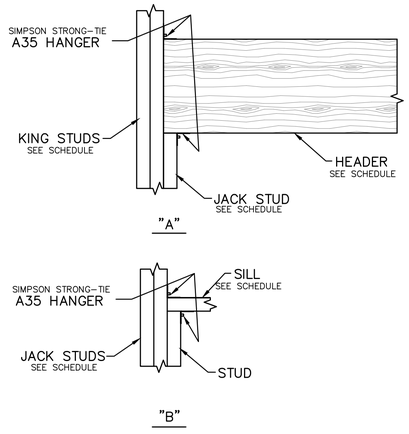
SXXX NOT USED SCALE:

X

SXXX NOT USED SCALE:

5

S302 DETAIL SCALE: N/A



Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
WALL DETAILS

NORTH CARROLINA PROFESSIONAL SEAL 31434 ENGINEER BRIAN MOSKOW
08.21.23

RED PROJ #: 23-E095

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Drawn	Checked
RED	BM
Scale	Date
VARIES	08.21.23
Project No.	Drawing No.
G23-29	S302

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

X

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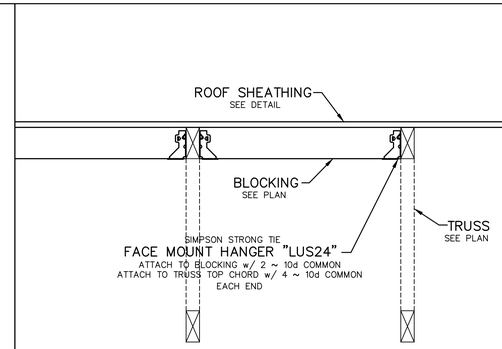

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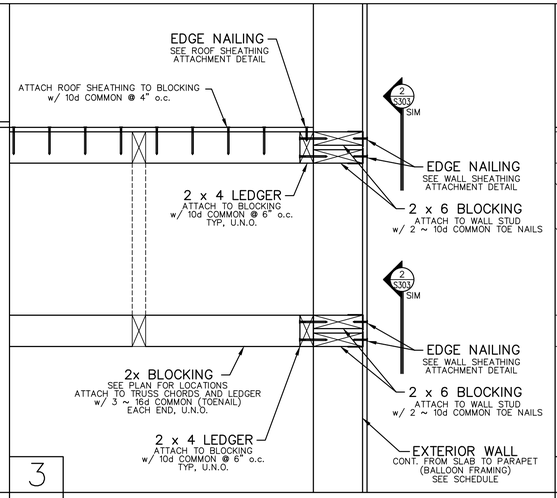

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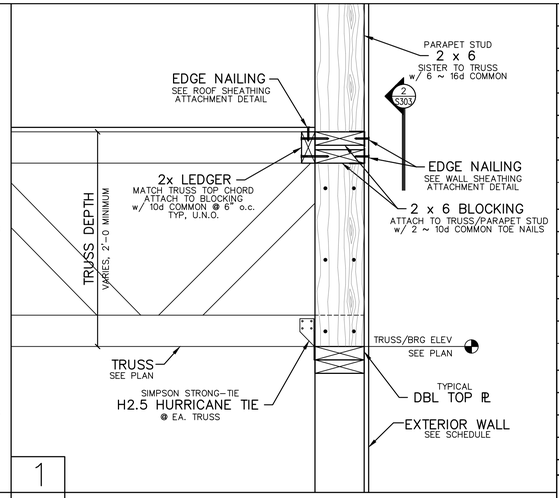

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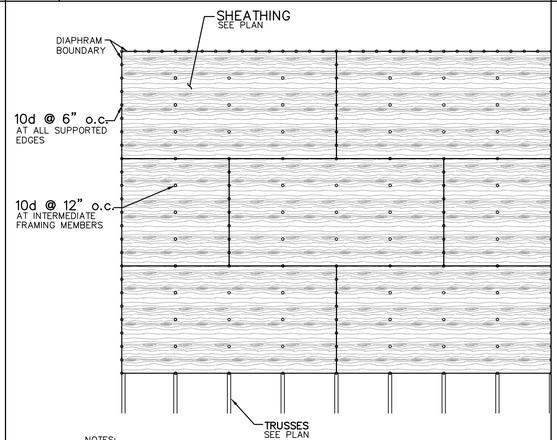
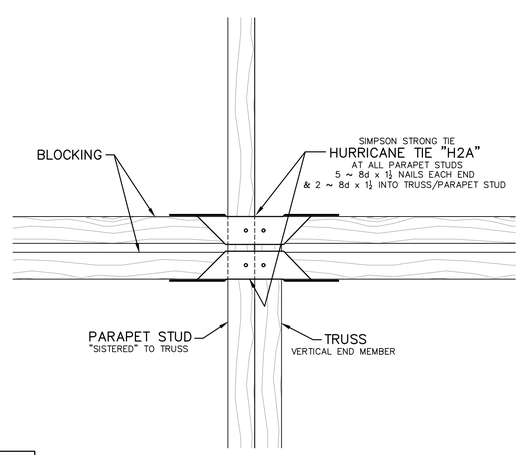


NOTES:
1.) STAPLES OR PNEUMATIC DRIVEN NAILS MAY BE USED IN LIEU OF COMMON NAILS PROVIDED THEY PROVIDE AN EQUIVALENT CROSS SECTIONAL AREA.
2.) MINIMUM NAIL PENETRATION INTO FRAMING TO BE 1⅜".

2

S303 DETAIL SCALE: N/A



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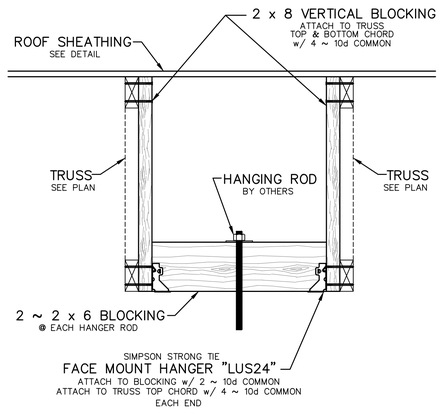

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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VA 015922 NC 12260 NCF 52665

Project

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 21434 ENGINEER BRIAN MOSKOW
08.21.23

RED PROJ #: 23-E095

RED ENGINEERING & DESIGN
STRUCTURAL ENGINEERS
126 SALEM TOWNE CT
APEX, NORTH CAROLINA 27502
TEL: (919) 833-3486
REDENGINEERINGDESIGN.COM
C-3479

Drawing Title
ROOF DETAILS

Drawn	Checked
RED	BM
Scale: VARIES	Date: 08.21.23
Project No.: G23-29	Drawing No.: S303

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SXXX	NOT USED	SCALE:	

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SXXX	NOT USED	SCALE:	

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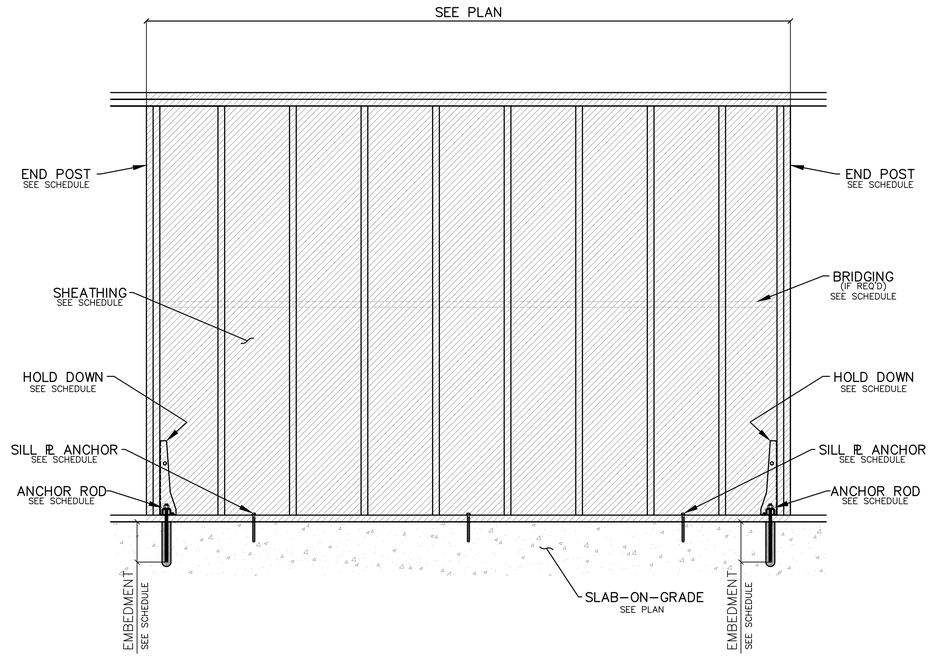

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PROJECT NORTH

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VA 015922 NC 12260 NCF 52865

Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
SHEAR WALL DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 31434 ENGINEER BRIAN MOSKOW
08.21.23

RED PROJ #: 23-E095

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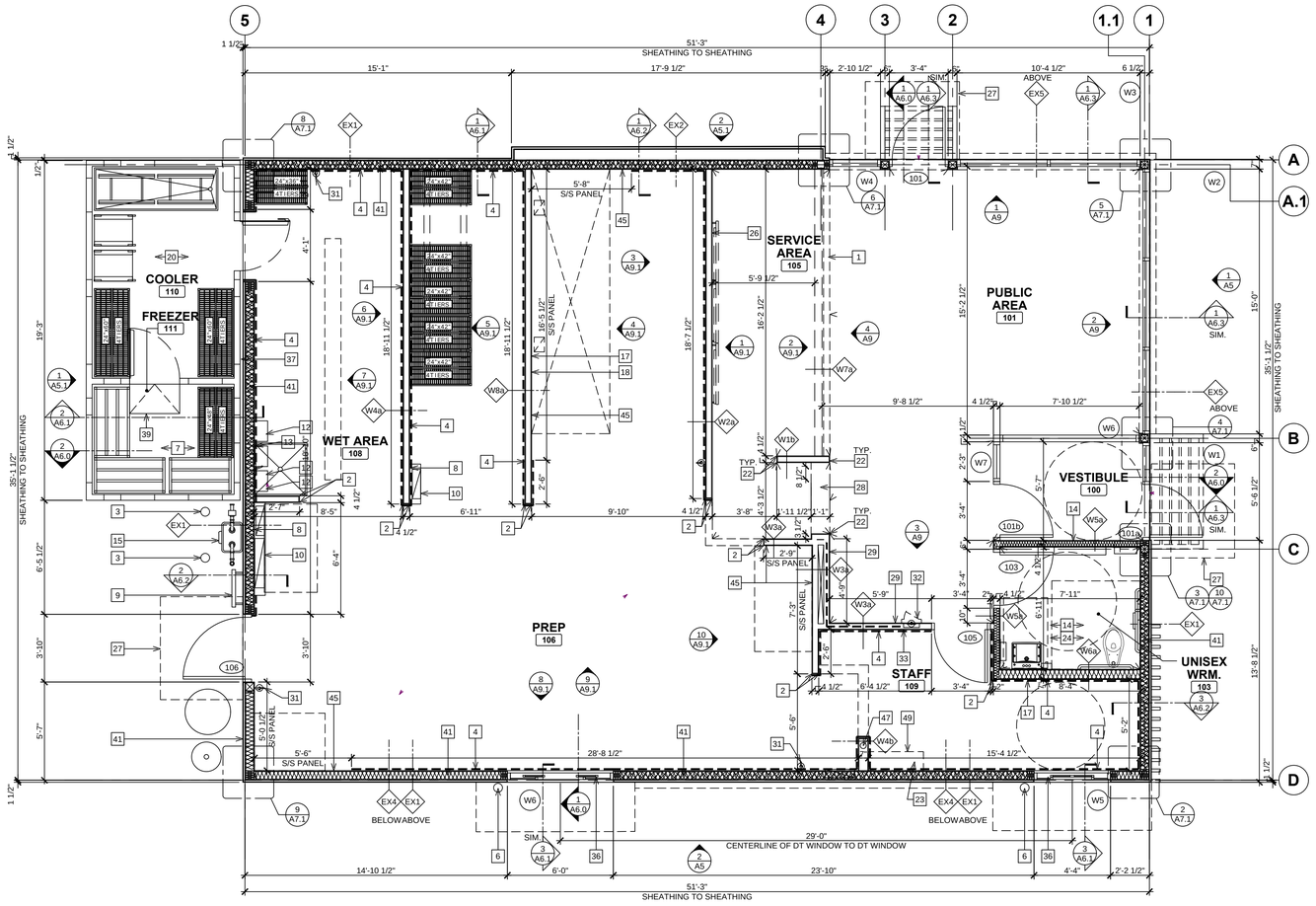
Drawn: RED	Checked: BM
Scale: VARIES	Date: 08.21.23
Project No.: G23-29	Drawing No.: S304

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 **FLOOR PLAN**
A1 SCALE: 1/4"=1'-0"

FLOOR PLAN NOTES

1. APPROXIMATE LOCATION OF FRONT COUNTER. CONSULT MILLWORK DRAWINGS FOR ACTUAL LOCATION. G.C TO ENSURE FLOOR TILE TRANSITION FALLS UNDERNEATH MILLWORK COUNTERS. G.C TO COORDINATE WITH MILLWORK COMPANY FOR ACTUAL LOCATION.
2. G.C TO PROVIDE AND INSTALL 2" X 2" (4FT LIGHT DUTY 20 GAUGE "#4 BRUSHED") S/S CORNER GUARDS FROM 4" A.F.F AND 1 1/2" X 1 1/2" PLASTIC CORNER GUARDS (FROM FRP SUPPLIER) FROM 4'-4" TO U/S OF CEILINGS AND BULKHEADS ON ALL OUTSIDE CORNERS.
3. G.C TO COORDINATE WITH UTILITY COMPANIES FOR PLACEMENT / LOCATION OF BOLLARDS . G.C TO PROVIDE 6" DIA. METAL BOLLARD FILL W/ CONCRETE AND PAINTED. REFER TO DETAIL 13/AS2.3 & EXTERIOR ELEVATIONS A5 & A5.1.
4. PROVIDE PLYWOOD BACKING / BLOCKING IN WALL AS REQUIRED TO SUPPORT WALL MOUNTED ITEM.
5. N/A.
6. 6" DIA. METAL BOLLARD FILL W/ CONCRETE AND PAINTED. REFER TO DETAIL 13/AS2.3 & EXTERIOR ELEVATIONS A5 & A5.1.
7. NO TILE REQUIRED ON FLOOR AT FREEZER. FREEZER TO HAVE INSULATED FLOOR. G.C TO PROVIDE & INSTALL 2" RIGID INSULATION UNDER SLAB FOR ENTIRE AREA OF COOLER / FREEZER. G.C TO COORDINATE SIZE WITH WALK-IN MANUFACTURER.
8. PROVIDE ½" FIRE RATED PLYWOOD FROM FINISHED FLOOR TO 8'-0" BEHIND ELECTRICAL PANEL. PAINT PLYWOOD W/ 1 COAT OF PRIMERX PEEL BONDING PRIMER & 2 FINISH COATS OF WHITE LATEX PAINT W/ CLASS A RATING (BY SHERWIN WILLIAMS).
9. INTERIOR ROOF ACCESS LADDER AND ROOF HATCH. REFER TO DETAIL 2/A6.2.
10. 8" DEEP x 6" HIGH CONCRETE HOUSE KEEPING PAD @ LOCATION OF ELECTRICAL PANELS. PROVIDE TILE FINISH ON HORIZONTAL & VERTICAL SURFACES.
11. N/A.
12. HOT WATER TANK C/W EXPANSION TANK (IF REQUIRED) MOUNTED ABOVE MOP SINK. REFER TO MECHANICAL DRAWINGS.
13. G.C TO PROVIDE AND INSTALL SURFACE MOUNTED MOP SINK. WALLS AROUND MOP SINK TO RECEIVE ½" CEMENTITIOUS BACKER BOARD FROM FLOOR TO 4'-0" A.F.F. REFER TO MECHANICAL DWGS.
14. G.C. TO SUPPLY AND INSTALL SOUND BATT INSULATION ON ALL PUBLIC WASHROOM WALLS.
15. GAS METER. REFER TO MECHANICAL DRAWINGS. COORDINATE LOCATION WITH CIVIL DRAWINGS AND LOCAL UTILITY COMPANY.
16. N/A.
17. WALL TO BE COMPLETE W/ 1 LAYER ½" DUROCK NEXT GEN CEMENT BOARD ON 2"X6" METAL STUDS @ 16" O.C. CARRY STUDS & CEMENT BOARD TO 6" ABOVE CEILING.
18. PROVIDE PROPER NON-COMBUSTIBLE SUPPORT IN WALL AS REQUIRED TO SUPPORT EXHAUST HOOD. COORDINATE WITH HOOD VENDOR.
19. N/A.
20. INSTALL FLOOR TILE AFTER INSTALLATION OF COOLER UNIT. G.C TO COORDINATE WITH COOLER/ FREEZER MANUFACTURER.
21. N/A.
22. PROVIDE & INSTALL SCHLUTER STRIP AT TILED CORNERS. REFER TO SHEET A10 FOR SPECIFICATIONS.
23. WATER FILTRATION SYSTEM BY EQUIPMENT SUPPLIER. REFER TO MEP DRAWINGS. WATER FILTRATION SYSTEM TO BE INSTALLED TIGHT AGAINST THE CORNER.
24. REFER TO SHEET A9.3 FOR WASHROOM ELEVATIONS.
25. N/A.
26. PROVIDE BACKING/BLOCKING IN WALL AS REQUIRED TO SUPPORT WALL MOUNTED LED SCREENS.
27. DASHED LINE INDICATES LOCATION OF FROST SLAB (FOR COLDER CLIMATE REGIONS). REFER TO STRUCTURAL DRAWINGS FOR SIZE.
28. 1/2" CEMENT BOARD EXTEND 24" A.F.F AND 1/2" GYPSUM WALL BOARD ABOVE ON 3 5/8" METAL STUDS.
29. G.C TO PROVIDE LEVEL 5 DRYWALL FINISH (AT A LOCATION BEHIND WALL GRAPHIC) C/W 2 COATS OF PRIMER OR 1 COAT OF LATEX PAINT.
30. N/A.
31. WALL MOUNTED FIRE EXTINGUISHER TO BE SUPPLY AND INSTALL BY G.C. G.C. TO VERIFY LOCATION WITH FIRE MARSHALL.
32. SEMI- RECESSED FIRE EXTINGUISHER AND CABINET. REFER TO INTERIOR ELEVATION 3/A9.
33. PROVIDE PLYWOOD BEHIND PORTAL OFFICE CABINET. REFER TO INTERIOR ELEVATION 9/A9.1.
34. N/A.
35. N/A.
36. DRIVE THRU WINDOW SUPPLY AND INSTALL BY G.C.
37. PROVIDE MIN. 2" AIR SPACE BETWEEN COOLER / FREEZER AND FACE OF WALL.
38. N/A.
39. COOLER / FREEZER UNIT PROVIDED & INSTALLED BY MANUFACTURER. INTERIOR RAMP TO BE PROVIDED INSIDE FREEZER UNIT BY MANUFACTURER. G.C TO COORDINATE.
40. N/A.
41. CROSS HATCH INDICATES LOCATION OF SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS.
42. N/A.
43. N/A.
44. N/A.
45. G.C TO PROVIDE AND INSTALL S/S PANELS BEHIND AND BESIDE FRY STATION AS INDICATED. REFER TO DETAIL 1/A8 AND INTERIOR ELEVATIONS 9/A9.1.
46. N/A.
47. RAIN WATER LEADER. REFER TO PLUMBING DRAWINGS.
48. WATER METER AND BACK FLOW PREVENTER. REFER TO PLUMBING DRAWINGS. EXACT LOCATION OF WATER METER TO BE COORDINATED WITH CIVIL PLANS.

WALL TYPE LEGEND

EX1 — EXTERIOR WALL AT STUCCO (EIFS):
- STOTHERM CI LOTUSAN EXTERIOR INSULATION FINISHING SYSTEM (EIFS): 1" EXPANDED POLYSTYRENE INSULATION BOARD W/ ½" BASE COAT, REINFORCING MESH AND 3/16" FINISH. (REFER TO EXTERIOR ELEVATIONS).
- STO GOLD COAT FLUID APPLIED MEMBRANE AIR BARRIER. ALL TRANSITIONS AT FOUNDATION, ROUGH OPENINGS, SHEATHING JOINTS, FLASHINGS, WALL PENETRATIONS AND PARAPETS TO BE SEALED W/ STO RAPID GUARD PER MANUFACTURERS SPECS PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER.
- 1 LAYER ½" EXTERIOR GRADE PLYWOOD
- 2"X6" WOOD STUDS @16" O.C.
- UNFACED BATT INSULATION (R-20) UP TO 10'-0" MAX C/W 2"X6" FIRE STOP.
- FSK FOIL FACED FLAME SPREAD 25 BATT INSULATION (R-20) FROM 10'-0" TO U/S OF DECK C/W 2"X6" FIRE STOP.
- UNFACED BATT INSULATION (R-20) FROM U/S OF DECK TO 18" MIN. ABOVE DECK.
- 1 LAYER OF ½" GYPSUM BOARD SHEATHING ON CONTINUOUS 6 MIL. POLYETHYLENE VAPOR BARRIER TO (U/S OF DECK).
- PROVIDE ½" CEMENTITIOUS BACKER BOARD INSTEAD OF PLYWOOD SHEATHING TO 12" ABOVE FLOOR SLAB C/W ACOUSTICAL SEALANT AT BASE.

NOTE:
1. PROVIDE DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-0" ABOVE GRADE AT ALL EIFS LOCATIONS.
2. G.C TO ENSURE DARK COLOURED EIFS NOT TO BE INSTALLED IN DIRECT SUNLIGHT (COORDINATE WITH MANUFACTURER)

EX2 — EXTERIOR WALL AT NICHIHA SIDING (VINTAGEBRICK):
- NICHIHA VINTANGE BRICK: COLOR: ALEXANDRIA BUFF; 17 ½" HIGH X 71 ⅝" LONG X ¾" THICK. COMES WITH STARTER TRACK AND JOINT CLIP.
- 1 LAYER ½" EXTERIOR GRADE PLYWOOD
- 2"X6" WOOD STUDS @16" O.C.
- STO GOLD COAT FLUID APPLIED MEMBRANE AIR BARRIER. ALL TRANSITIONS AT FOUNDATION, ROUGH OPENINGS, SHEATHING JOINTS, FLASHINGS, WALL PENETRATIONS AND PARAPETS TO BE SEALED W/ STO RAPID GUARD PER MANUFACTURERS SPECS PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER.
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- 1 LAYER OF ½" GYPSUM BOARD SHEATHING ON CONTINUOUS 6 MIL. POLYETHYLENE VAPOR BARRIER TO (U/S OF DECK).
- PROVIDE ½" CEMENTITIOUS BACKER BOARD INSTEAD OF PLYWOOD SHEATHING TO 2'-0" ABOVE FLOOR SLAB C/W ACOUSTICAL SEALANT AT BASE.

EX3 — EXTERIOR WALL AT NICHIHA SIDING (VINTAGEBRICK) EXTEND 9'-0" A.F.F.:
- NICHIHA VINTANGE BRICK: COLOR: ALEXANDRIA BUFF; 17 ½" HIGH X 71 ⅝" LONG X ¾" THICK. COMES WITH STARTER TRACK AND JOINT CLIP. EXTEND 9'-0" A.F.F.
- STO GOLD COAT FLUID APPLIED MEMBRANE AIR BARRIER. ALL TRANSITIONS AT FOUNDATION, ROUGH OPENINGS, SHEATHING JOINTS, FLASHINGS, WALL PENETRATIONS AND PARAPETS TO BE SEALED W/ STO RAPID GUARD PER MANUFACTURERS SPECS PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER.
- 1 LAYER ½" EXTERIOR GRADE PLYWOOD EXTEND 9'-0" A.F.F.
- 2"X4" WOOD STUDS @16" O.C. EXTEND 9'-0"A.F.F.
- UNFACED BATT INSULATION (R-20) UP TO 10'-0" MAX C/W 2"X6" FIRE STOP.
- FSK FOIL FACED FLAME SPREAD 25 BATT INSULATION (R-20) FROM 10'-0" TO U/S OF DECK C/W 2"X6" FIRE STOP.
- UNFACED BATT INSULATION (R-20) FROM U/S OF DECK TO 18" MIN. ABOVE DECK.
- 1 LAYER OF ½" GYPSUM BOARD SHEATHING ON CONTINUOUS 6 MIL. POLYETHYLENE VAPOR BARRIER TO (U/S OF DECK).
- PROVIDE ½" CEMENTITIOUS BACKER BOARD INSTEAD OF PLYWOOD SHEATHING TO 12" ABOVE FLOOR SLAB C/W ACOUSTICAL SEALANT AT BASE.

EX4 — EXTERIOR WALL AT NICHIHA SIDING (VINTAGEWOOD) EXTEND 9'-3" A.F.F.:
- NICHIHA VINTANGE WOOD: COLOR: CEDAR; 17 ½" HIGH X 119 ⅝" LONG X ¾" THICK. COMES WITH STARTER TRACK AND JOINT CLIP. EXTEND 9'-3" A.F.F.
- STO GOLD COAT FLUID APPLIED MEMBRANE AIR BARRIER. ALL TRANSITIONS AT FOUNDATION, ROUGH OPENINGS, SHEATHING JOINTS, FLASHINGS, WALL PENETRATIONS AND PARAPETS TO BE SEALED W/ STO RAPID GUARD PER MANUFACTURERS SPECS PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER.
- 1 LAYER ½" EXTERIOR GRADE PLYWOOD EXTEND 9'-3" A.F.F.
- 2"X6" WOOD STUDS @16" O.C. EXTEND 9'-3"A.F.F.
- UNFACED BATT INSULATION (R-20) UP TO 10'-0" MAX C/W 2"X6" FIRE STOP.
- FSK FOIL FACED FLAME SPREAD 25 BATT INSULATION (R-20) FROM 10'-0" TO U/S OF DECK C/W 2"X6" FIRE STOP.
- UNFACED BATT INSULATION (R-20) FROM U/S OF DECK TO 18" MIN. ABOVE DECK.
- 1 LAYER OF ½" GYPSUM BOARD SHEATHING ON CONTINUOUS 6 MIL. POLYETHYLENE VAPOR BARRIER TO (U/S OF DECK).
- PROVIDE ½" CEMENTITIOUS BACKER BOARD INSTEAD OF PLYWOOD SHEATHING TO 12" ABOVE FLOOR SLAB C/W ACOUSTICAL SEALANT AT BASE.

EX5 — EXTERIOR WALL AT NICHIHA SIDING (VINTAGEBRICK):
- NICHIHA VINTANGE BRICK: COLOR: WHITEWASH (SITE PAINT); 17 ½" HIGH X 71 ⅝" LONG X ¾" THICK. COMES WITH STARTER TRACK AND JOINT CLIP.
- STO GOLD COAT FLUID APPLIED MEMBRANE AIR BARRIER. ALL TRANSITIONS AT FOUNDATION, ROUGH OPENINGS, SHEATHING JOINTS, FLASHINGS, WALL PENETRATIONS AND PARAPETS TO BE SEALED W/ STO RAPID GUARD PER MANUFACTURERS SPECS PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER.
- 1 LAYER ½" EXTERIOR GRADE PLYWOOD
- 2"X6" WOOD STUDS @16" O.C.
- UNFACED BATT INSULATION (R-20) UP TO 10'-0" MAX C/W 2"X6" FIRE STOP.
- FSK FOIL FACED FLAME SPREAD 25 BATT INSULATION (R-20) FROM 10'-0" TO U/S OF DECK C/W 2"X6" FIRE STOP.
- UNFACED BATT INSULATION (R-20) FROM U/S OF DECK TO 18" MIN. ABOVE DECK.
- 1 LAYER OF ½" GYPSUM BOARD SHEATHING ON CONTINUOUS 6 MIL. POLYETHYLENE VAPOR BARRIER TO (U/S OF DECK).
- PROVIDE ½" CEMENTITIOUS BACKER BOARD INSTEAD OF PLYWOOD SHEATHING TO 12" ABOVE FLOOR SLAB C/W ACOUSTICAL SEALANT AT BASE.

NOTE:
1. PROVIDE DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-0" ABOVE GRADE AT ALL EIFS LOCATIONS.
2. G.C TO ENSURE DARK COLOURED EIFS NOT TO BE INSTALLED IN DIRECT SUNLIGHT (COORDINATE WITH MANUFACTURER)

*NOTE:
- "a" DENOTES 2 X 4 METAL STUDS
- "b" DENOTES 2 X 6 METAL STUDS
- "c" DENOTES 2 X 8 METAL STUDS

W1* — ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" GYPSUM BOARD FROM 2'-0" A.F.F. TO U/S OF CEILING (PUBLIC AREA SIDE)
- METAL STUDS @ 16" O.C.
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- ½" CEMENTITIOUS BACKER BOARD (SERVICE AREA SIDE)

W2* — ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. TO U/S OF CEILING (SERVICE AREA SIDE)
- METAL STUDS @ 16" O.C.
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. TO U/S OF CEILING (KITCHEN SIDE)

W3* — ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" GYPSUM BOARD FROM 2'-0" A.F.F. TO U/S OF CEILING (PUBLIC AREA SIDE)
- METAL STUDS @ 16" O.C.
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. (KITCHEN SIDE)

W4* — ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. (KITCHEN SIDE)
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- METAL STUDS @ 16" O.C.
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. (KITCHEN SIDE)

W5* — ½" DUROCK NEXT GEN CEMENT BOARD (WASHROOM SIDE)
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- WOOD STUDS @ 24" O.C.
- ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" GYPSUM BOARD FROM 2'-0" A.F.F. TO U/S OF CEILING (PUBLIC AREA SIDE)

W6* — ½" DUROCK NEXT GEN CEMENT BOARD (WASHROOM SIDE)
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- WOOD STUDS @ 24" O.C.
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. (KITCHEN SIDE)

W7* — ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" GYPSUM BOARD FROM 2'-0" A.F.F. TO 29" A.F.F. (PUBLIC AREA SIDE)
- METAL STUDS @ 16" O.C.
- ½" PLYWOOD BACKING (BETWEEN STUDS @ LOCATION OF WALL MOUNTED EQUIPMENTS)
- ½" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND ½" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. (SERVICE AREA SIDE)

W8* — ¾" FIRE-RATED GYPSUM WALL BOARD EXTEND UP TO 6" ABOVE CEILING. (KITCHEN SIDE)
- ½" DUROCK NEXT GEN CEMENT BOARD UP TO U/S OF DECK.
- METAL STUDS @ 16" O.C. EXTEND UP TO U/S OF DECK.
- ½" DUROCK NEXT GEN CEMENT BOARD UP TO U/S OF DECK.
- ¾" FIRE-RATED GYPSUM WALL BOARD EXTEND UP TO 6" ABOVE CEILING. (KITCHEN SIDE)

NOTE:
1. PROVIDE FULL PLYWOOD BACKING INSTEAD OF DRYWALL IN BACK OF HOUSE WHERE PERMITTED BY CODE.
2. G.C TO ENSURE THE FOLLOWING SHOP DRAWINGS ARE SUBMITTED:
- BULKHEADS (FRONT COUNTER, MENU SCREEN & PUBLIC AREA SUSPENDED GB CEILING) (P. ENG. STAMPED)
- ROOF ACCESS LADDER/CAGE/ROOF HATCH (P. ENG. STAMPED)
- CURTAIN WALL (P. ENG. STAMPED)
- LIST OF HARDWARE / DOORS
- DRIVE THRU WINDOW
- ROOFING MATERIALS

REFER ALSO TO SPECIFICATION SECTIONS FOR SHOP DRAWINGS REQUIREMENTS.
3. PRIME CONSULTANT TO REQUEST THE FOLLOWING SHOP DRAWINGS TO THE RELATED VENDOR FOR REVIEW:
- REFRIGERATION BOXES
- MILLWORK
- GRAPHICS
4. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR MECHANICAL, ELECTRICAL AND STRUCTURAL REQUIREMENTS.

DOTTED LINE INDICATES LOCATION OF FIBREGLASS REINFORCED PANEL (FRP) LOCATION.

HIDDEN LINE INDICATES LOCATION OF BLOCKING IN BETWEEN THE STUDS FOR THE MILLWORK

GENERAL NOTES:

1. ALL INTERIOR NON-STRUCTURAL PARTITION SHALL BE 2 X 4 METAL STUDS @ 16" O.C. FROM SLAB TO 6" ABOVE FINISHED CEILING, UNLESS NOTED OTHERWISE. DIAGONALLY BRACE TOP OF WALL TO ROOF STRUCTURE AS REQUIRED TO SUPPORT ADDITIONAL LOADS.
2. REFER TO SITE PLAN FOR LOCATION & EXTENTS OF SIDEWALKS ETC.
3. ALL EXTERIOR WALLS SHALL BE FRAMED WITH 2 X6 STUDS @ 16" O.C. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR LAYOUT, DIMENSIONS, DETAILS, MATERIAL INFORMATION & SPECIFIC STRUCTURAL DESIGN REQUIREMENTS.
4. G.C TO PROVIDE SOLID WOOD BLOCKING BEHIND ALL WALL MOUNTED FIXTURES AND ACCESSORIES.
5. FOR ANOMALIES, REFER TO WALL SECTIONS REFERENCE KEYED ON PLANS.
6. LOCATION OF CEMENTITIOUS BACKER BOARD INDICATES LOCATION OF WALL TILE FINISH. VERIFY WITH INT. ELEVATIONS ON SHEET A9 & A9.1 FOR WALL TILE LOCATIONS.
7. GYPSUM BOARD, PLYWOOD & CEMENTITIOUS BACKER BOARD TO EXTEND TO 4" ABOVE T-BAR CEILING & TO U/S OF CEILING IN LOCATIONS WITH GYPSUM BOARD CEILING.
8. REFER TO MANUFACTURE SPECIFICATIONS FOR ALL INSTALLATION PROCEDURE.
9. G.C TO PERFORM AN AIR BARRIER TEST (LEAKAGE TEST) ON THE BUILDING ENVELOPE PRIOR TO THE COMPLETION OF CONSTRUCTION, IN ACCORDANCE WITH THE NYS ENERGY CODE.
10. G.C TO SEAL/CAULK ALL BUILDING PENETRATIONS PRIOR TO PERFORMING AN AIR BARRIER TEST.
11. PROVIDE FIRE CAULKING ALL PIPES, CONDUITS, WIRES AND FRAMING PENETRATIONS THROUGH FIRE RATED SEPARATIONS. FIRE CAULK TOP & BOTTOM OF FIRE RATED SEPARATIONS. HILTI USA FS-ONE MAX FIRESTOP INTUMESCENT SEALANT, HILTI USA 1-800-879-8000 FIRE CAULK TOP & BOTTOM OF FIRE RATED SEPARATIONS.
12. G.C TO PROVIDE & INSTALL 1/2" CEMENTITIOUS BACKER BOARD INSTEAD OF GYPSUM BOARD TO 2-0" ABOVE FLOOR SLAB (FOR ALL INTERIOR PARTITIONS).
13. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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ARCHITRAVE GROUP PC Professional Company 23262 TN RED BANK

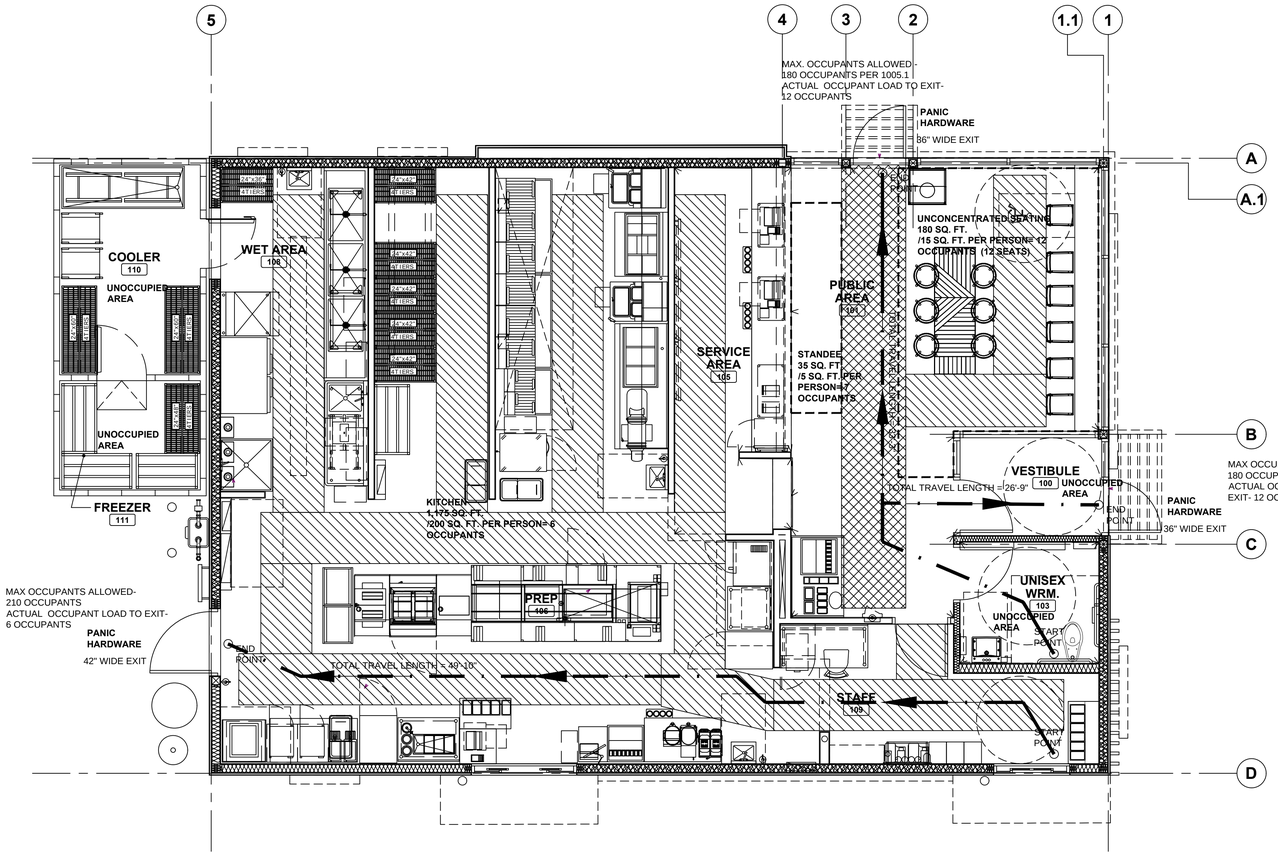
Project

LOUISIANA KITCHEN 1972

POPEYES

Store Type	US 2112 PROTOTYPE 2112-21
Location	PROTOTYPE 2112 (U.S.) 503 W. 3RD STREET PEMBROKE, NORTH CAROLINA
Drawing Title	FLOOR PLAN AND SCHEDULES
Drawn	XXS
Checked	JS
Scale	1/4"=1'-0"
Date	8/11/23
Project No.	G23-29
Drawing No.	A1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 / A1.1 **EGRESS PLAN**
SCALE: 1/4"=1'-0"

BUILDING: 1,829 SQ. FT.
EXTERIOR COOLER/FREEZER: 168 SQ. FT.
TOTAL SEATS: 12

MAINTAIN MIN. 36" TRAVEL EGRESS WIDTH WITHIN KITCHEN

MAINTAIN MIN. 44" TRAVEL EGRESS WIDTH WITHIN DINING (PRIMARY)

DENOTES TRAVEL LENGTH PER SECTION 1028.7 NOT TO EXCEED 200' - NON-SPRINKLERED BUILDING

-DINING
UNCONCENTRATED SEATING
180 SQ. FT. / 15 SQ. FT. PER PERSON = 12 OCCUPANTS (12 SEATS)

- STANDEE
35 SQ. FT. / 5 SQ. FT. PER PERSON = 7 OCCUPANTS

-KITCHEN
1,155 SQ. FT. / 200 SQ. FT. PER PERSON = 6 OCCUPANTS

TOTAL OCCUPANT LOAD = 25 OCCUPANTS

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

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No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project

LOUISIANA KITCHEN 1972

POPEYES

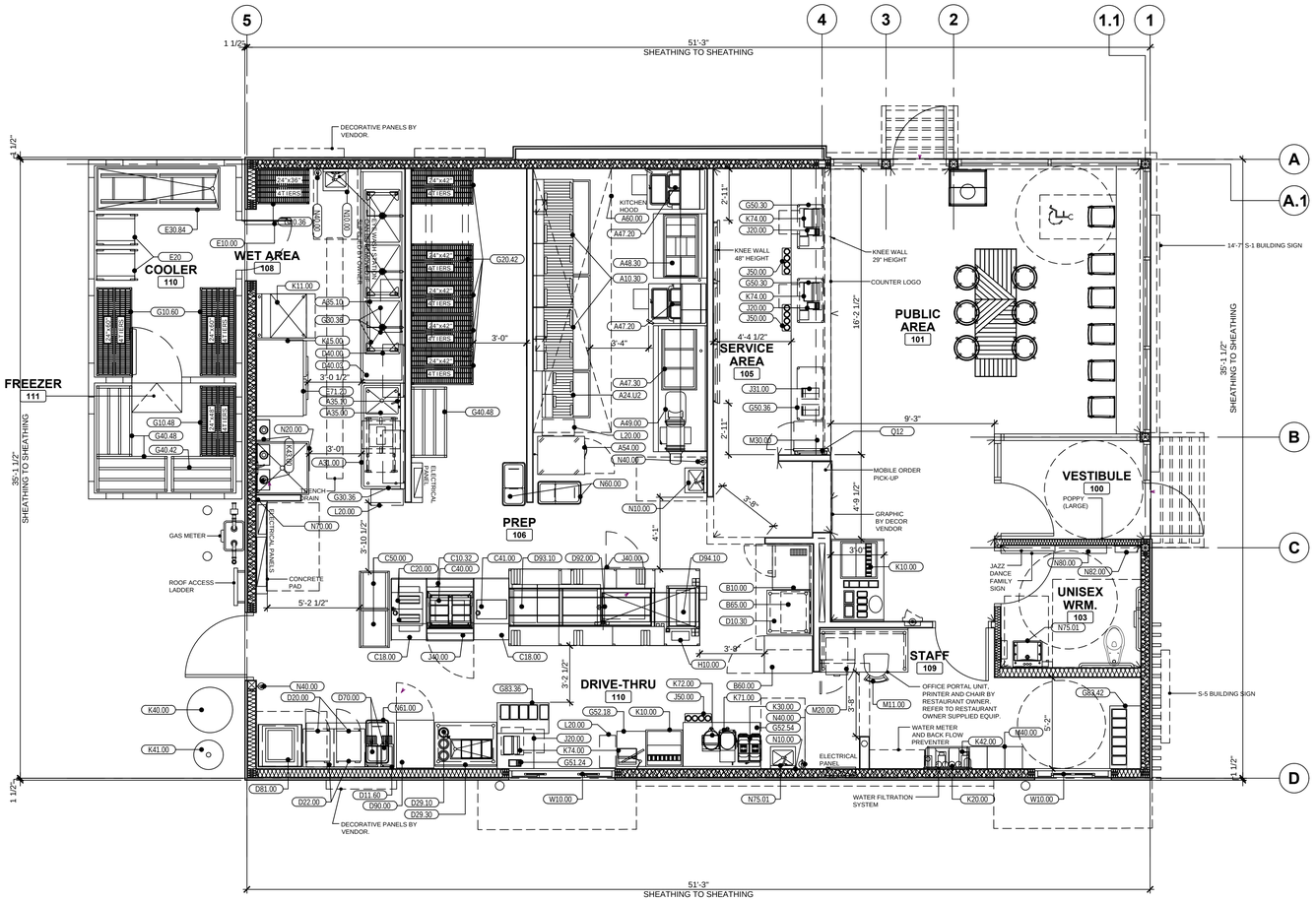
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
EQUIPMENT PLAN & SCHEDULES

Drawn	Checked
JS	JS
Scale	**Date**
1/4"=1'-0"	8/11/23
Project No.	**Drawing No.**
G23-29	A1.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 / A2 EQUIPMENT PLAN

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

BUILDING: 1,829 SQ. FT.
EXTERIOR COOLER/FREEZER: 168 SQ. FT.
TOTAL SEATS: 12

NOTE

1. IT IS RESPONSIBILITY OF THE G.C. TO COORDINATE DELIVERY, UNCRATING, POSITIONING, FINAL HOOK UP AND REMOVAL OF TRASH OF ALL OWNER SUPPLIED KITCHEN EQUIPMENT.

2. ALL KITCHEN EQUIPMENT TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.

3. DECOR ITEMS SUPPLIED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR.

4. FOR DINING ROOM FURNITURE, SEE DECOR PACKAGE, CONTACT DECOR VENDOR FOR DETAILS.

5. ARCHITECT OF RECORD TO ENSURE AND COORDINATE THAT ALL INTERIOR AND EXTERIOR COMPLIES WITH ADA REQUIREMENTS AS WELL AS LOCAL JURISDICTIONS.

6. AS OF DECEMBER 31, 2021, CAPTIVE AIRE NO LONGER MANUFACTURERS OR SELLS THE POPEYES LOW PROFILE HOOD. THE ONLY APPROVED HOOD IS THE FRANKE PLK HOOD. THE ONLY APPROVED HOOD IS THE FRANKE PLK HOOD. CAD DWGS AND SPECS CAN BE FOUND IN THE DESIGN PORTAL ON THE EQUIPMENT SCHEDULE TAB.

NEW KITCHEN EQUIPMENT SCHEDULE

NOTE:
CONTRACTOR SHOULD REFER TO MANUFACTURER SPECIFICATIONS FOR ALL SERVICE REQUIREMENTS AND PROPER CONNECTIONS.

ITEMNO	QTY	CATEGORY	MFR	MODEL	EQUIPMENT REMARKS
A10.30	2	MULTIPLE FRYER SYSTEM, GAS	ULTRAFRYER	BP20203	
A10.40	2	SHORTENING DISPOSAL UNIT	ULTRAFRYER	DISPOSAL	NOT SHOWN IN PLAN
A10.50	2	BOILOUT HOSE	ULTRAFRYER	BOILOUT	NOT SHOWN IN PLAN
A24.U2	1	MULTIPLE FRYER SYSTEM, GAS	ULTRAFRYER	BP30142UCP	
A31.00	1	MARINATOR	AYRKING	M101-110	
A35.00	1	ONE COMPARTMENT SINK	WINHOLT	1143828	
A35.10	2	PRE-RINSE FAUCET ASSEMBLY	T & S	B2180	
A47.20	2	BATTER STATION 29"	AYRKING	BBSUL2934P	
A47.30	1	BATTER STATION 86"	KES	CUSTOM	
A48.30	1	3-PAN ICE BATH TABLE FABRICATION	KES	CUSTOM	
A49.00	1	DRUMROLL	AYRKING	DRUF120TPR 8POP	
A54.00	1	REACH-IN FREEZER	DELFIELD	GBF1P-S	
A60.00	1	15' HOOD	FRANKEE	3347 FR-8D-2	
B10.00	1	CONVECTION OVEN, DOUBLE STACKED	BLODGETT OVEN	CTB DBL	
B60.00	1	REACH-IN REFRIGERATOR	DELFIELD	GBR1P-S	
B65.00	1	BISCUIT HOLDING UNIT	NWS	D328530400N	
C10.32	1	POPEYES DUAL SIDE SANDWICH PREP	NWS	F775670100N	
C20.00	2	TOASTER	ANTUNES	VCT-2	
C40.00	1	PRODUCT HOLDING UNIT	PRINCE CASTLE	EHBP23	
C41.00	1	PROTEIN HOLDING UNIT	PRINCE CASTLE	PHB41F	
C50.00	2	BUN / SHEET PAN RACK	CAMBRO	UPR1826F20580	
D10.30	1	WORK TABLE	NWS	D200270400N	
D11.60	1	WORK TABLE 60"	KES	CUSTOM	
D20.00	2	MICROWAVE OVEN	PANASONIC	NE-17523	
D22.00	2	MICROWAVE SHELF	NWS	D413310300N	
D29.10	1	PACKING TABLE, CONSERVEWELL UTENSIL	SERVER	CW-DI	
D29.30	1	PACKING TABLE, SINGLE SIDED	KES	CUSTOM	
D40.00	1	3-BOWL SINK	NWS	146" LONG	
D40.03	1	SPLASH DIVIDER	NWS	F367400100N	
D70.00	2	HOT WATER DISPENSER	BUNN	H5XEL	
D81.00	1	RETHERMALIZER, WATER TANK, ELECTRIC	ULTRAFRYER	REO-1620-X	
D90.00	1	HOLDING UNIT / CVAP	WINSTON	HA4522	
D92.00	1	HOLDING BINS	PRINCE CASTLE	PHB21N2	
D93.10	1	HOLDING BINS	PRINCE CASTLE	DHB2PT-60P	
D94.00	1	PROTEIN HOLDING BIN	PRINCE CASTLE	PHB34R2	
D94.10	1	BISCUIT HOLDING BIN	PRINCE CASTLE	PHB21N1	
E10.00	1	WALK-IN COOLER	KOLPAK	WICF A185891	
E20.00	2	CHICKEN RACKS	SPG	4H1286	
E30.84	1	CHICKEN CRATE	NWS	D125050500N	
E71.20	1	DOUBLE EVEN-THAW REFRIGERATOR	TRAULSEN	RE232N-1	
G10.36	1	COATED WIRE SHELVING - 4 TIERS	METRO	2436NK3	
G10.48	2	COATED WIRE SHELVING - 4 TIERS	METRO	2448NK3	
G10.60	2	COATED WIRE SHELVING - 4 TIERS	METRO	2448NK3	
G20.42	5	WIRE SHELVING WITH TRACK 42"	METRO	2448NK3	
G30.36	4	WIRE SHELVING WALL MOUNTED - 36" 2 TIER	METRO	2448NK3	
G40.42	2	DUNNAGE RACK	KES	CUSTOM	
G40.48	1	DUNNAGE RACK	KES	CUSTOM	
G50.30	2	WIRE SHELVING UNCOATED - 2 TIER 30"	METRO	CUSTOM	
G50.36	1	WIRE SHELVING UNCOATED - 2 TIER 36"	METRO	CUSTOM	
G51.24	1	POS TABLE 24"	METRO	CUSTOM	
G52.18	1	DRIVE-THRU TABLE 18"	KES	CUSTOM	
G52.54	1	DRIVE-THRU TABLE 54"	KES	CUSTOM	
G83.36	1	EXPEDITE TABLE	KES	CUSTOM	
G83.42	1	EXPEDITE TABLE	KES	CUSTOM	
H10.00	1	MODULAR PRODUCTION COUNTER - DUAL LINE	KES	CUSTOM	
J20.00	3	CASH CONTROLLER	NKL INDUSTRIES	W-101	
J31.00	1	CONDIMENT ORGANIZER BIN RACK	CAMBRO	12RS12	
J40.00	1	UNDERCOUNTER REFRIGERATOR	SILVER KING	5KRS28	
J50.00	3	DISPOSABLE CUP DISPENSER	DISPENSE-RITE	WR-CC-22-POP	
K10.00	2	SODA MACHINE	MANITOWOC	IBF0620C	
K11.00	1	ICE MAKER, CUBE-STYLE	MANITOWOC	IYF0900N	
K15.00	1	ICE BIN	MANITOWOC	D570 8POP	
K20.00	1	WATER FILTER SYSTEM	EVERPURE	EV943710	
K30.00	1	FROZEN LEMONADE	BUNN	34000.0012	
K40.00	1	GREASE TANK			
K41.00	1	CO2 TANK			
K42.00	1	BAG N BOX			BY OTHERS
K43.00	3	WATER HEATERS			BY OTHERS
K71.00	1	TEA BREWER	BUNN	ITCB	
K72.00	2	TEA DISPENSER	BUNN	TDO40	
K74.00	4	POS			BY OTHERS
L20.00	3	TRASH BINS			
LP45.00	1	OUTSIDE TRASH RECEPTACLE	WAUSAU	TF1015	NOT SHOWN IN PLAN
LP46.00	1	OUTSIDE TRASH RECEPTACLE	WAUSAU	TF1021	NOT SHOWN IN PLAN
M11.00	1	MANAGERS DESK	NWS	F367310100N	
M20.00	1	OFFICE SUPPLIES	WASSER	106053	
M30.00	1	SAFE	FIRE KING	BSD2920	
M40.00	1	LOCKERS W/ 6 HIGH UNIT	KELMAX	EL SERIES	
N10.00	3	HAND SINK	FIAT	MSB3624	CLASS K
N20.00	1	MOP SINK (36"x36")	KROWNE	HS-68	
N40.00	2	FIRE EXTINGUISHER	ACTION	436500	CLASS K
N40.10	1	FIRE EXTINGUISHER	ACTION	434909	
N60.00	2	FLOUR BIN	RUBBERMAID	FG360288WHT	
N61.00	1	INGREDIENTS BIN	RUBBERMAID	FG360288WHT	
N70.00	1	MOP & BROOM HAGER	ADVANCED	K42	
N75.01	4	FAUCET	KROWNE	16-197	
W10.00	2	DRIVE-THRU WINDOW	QUIKSERV	BP-72x	
Q12	1	PRE-SELL MENUBOARD, DIGITAL 1 PANELS	SICOM	CUSTOM	

ISSUE TABLE

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PROJECT NORTH

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Project
LOUISIANA KITCHEN 19 72
Popeyes

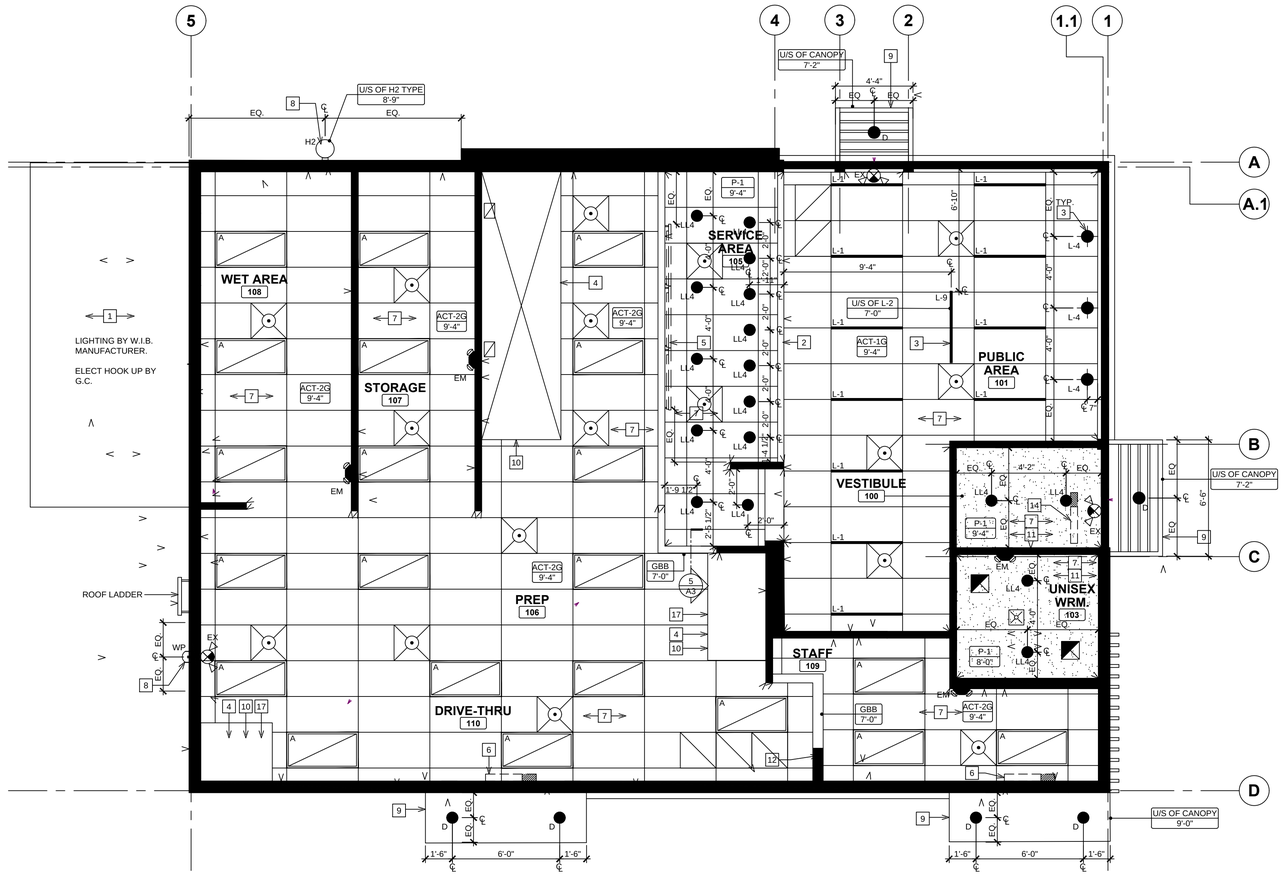
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
EQUIPMENT PLAN & SCHEDULES

Drawn	Checked
JS	JS
Scale: 1/4"=1'-0"	Date: 8/11/23
Project No.: G23-29	Drawing No.: A2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 REELECTED CEILING PLAN
A3 SCALE: 1/4"=1'-0"

SYMBOL LEGEND

- SECTION NUMBER / DRAWING NUMBER
- NOTE REFERENCE
- SACT 2800 — DENOTES CEILING HT & MATERIAL
  - GB GYPSUM BOARD
  - GBB GYPSUM BOARD BULKHEAD
  - LGB LAY-IN GYPSUM BOARD
- HVAC DUCTWORK WITH AIR GRILLE. REFER TO MECHANICAL DRAWINGS.
- RETURN AIR GRILLE. REFER TO MECHANICAL DRAWINGS.
- SUPPLY AIR GRILLE. REFER TO MECHANICAL DRAWINGS.
- EXHAUST FAN. REFER TO MECHANICAL DRAWINGS.
- (S) SPEAKERS ATTACHED TO U/S OD TRUSS. REFER TO ELECTRICAL DRAWINGS.
- (S) RADIO & AMPLIFIER. REFER TO ELECTRICAL DRAWINGS.
- AIR TRANSFER DUCT. REFER TO MECHANICAL DRAWINGS.
- CEILING MOUNTED HORN / STROBE INDICATING DEVICE. REFER TO ELECTRICAL DRAWINGS.
- CEILING MOUNTED STROBE ONLY DEVICE. REFER TO ELECTRICAL DRAWINGS.

ELECTRICAL SCHEDULE

- A — 2'-0" X 4'-0" RECESSED FIXTURE
- L-4 — PENDANT LIGHTING INSTALLED @ 7'-0" A.F.F. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- LL4 — RECESSED DOWN LIGHT. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- L-1 — LINEAR LIGHTING INSTALLED @ 9'-4" A.F.F. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- L-9 — LINEAR SUSPENDED LIGHTING INSTALLED @ 7'-0" A.F.F. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- H1 — CANOPY DOWN LIGHT. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- D — RECESSED DOWN LIGHT IN CANOPIES. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- H — EXTERIOR LIGHTING. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- EX — EMERGENCY LIGHTING. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- EM — EMERGENCY LIGHTING. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
- WP — EXTERIOR WALL PACK LIGHTING. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.

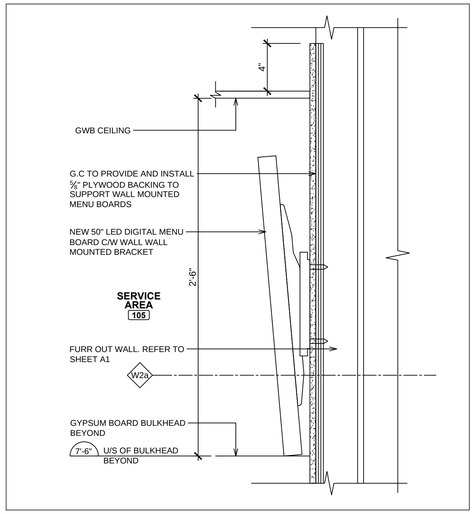
REFER TO ELECTRICAL DRAWINGS FOR SPECIFICATIONS

NOTE:

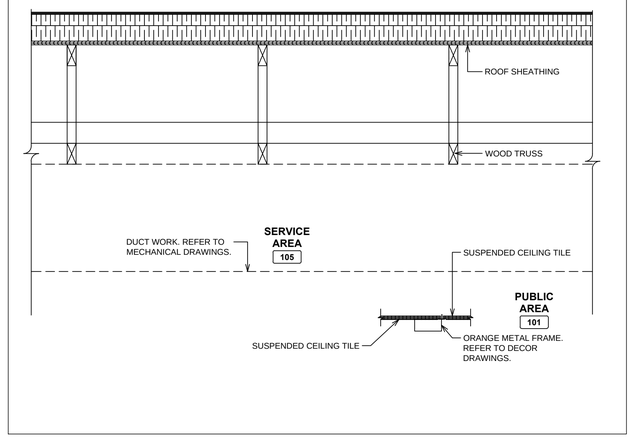
1. THE GENERAL CONTRACTOR IS TO ENSURE THE FOLLOWING ITEMS ARE BUILT IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND TO MEET CODE REQUIREMENTS (INCLUDING SEISMIC AND LATERAL RESTRAINT) AS REQUIRED:
   - SUSPENDED SHELVING SUPPORTS
   - SEISMIC AND LATERAL RESTRAINT FOR DUCTWORK
   - SUSPENDED CEILING PANELS, GYPSUM BOARD / T-BAR CEILINGS IN RELATION TO SEISMIC AND LATER RESTRAINT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE THAT ALL SUB-TRADES HAVE RETAINED A QUALIFIED STRUCTURAL ENGINEER TO REVIEW THEIR APPROPRIATE WORK. STRUCTURAL ENGINEER(S) TO ISSUE LETTER (ON THEIR LETTERHEAD) STATING THAT ALL WORK MEETS THE REQUIREMENT OF BUILDING CODE FOR SEISMIC RESTRAINTS.

CEILING PLAN NOTES

1. REFER TO WALK-IN FREEZER & COOLER MANUFACTURER FOR EVAPORATOR AND LIGHTING. FINAL CONNECTION BY G.C.
2. ORANGE METAL FRAME AROUND OPENING OF FRONT COUNTER. REFER TO POPEYES DECOR PACKAGE.
3. ALL PENDANTS / LIGHTS TO BE SUPPLY BY GC / OWNER AND INSTALLED BY G.C. JUNCTION BOX AND FINAL ELECTRICAL CONNECTION BY G.C. PENDANT LIGHTS TO BE MOUNTED AT 7'-0" A.F.F. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE INFORMATION.
4. EXHAUST HOODS SUPPLY BY OWNER AND INSTALL BY G.C.REFER TO MECHANICAL DRAWINGS.
5. WALL MOUNTED LED SCREENS SUPPLIED BY POPEYES. AND INSTALLED BY G.C. REFER TO DETAIL 3/A3. G.C TO PROVIDE & INSTALL ADEQUATE BLOCKING/BACKING FOR SUPPORT.
6. PROPOSED LOCATION OF AIR CURTAIN IF REQUESTED BY RESTAURANT OWNER . REFER TO MECHANICAL/ELECTRICAL DRAWINGS. GC TO PROVIDE AND INSTALL ELECTRICAL POWER FOR FUTURE AIR CURTAIN. OPERATORS TO BE PROVIDED AT DRIVE-THRU WINDOW IF AIR CURTAIN IS INSTALLED. ALL ELECTRICAL OULETS PROVIDED TO BE CAPPED OFF. REFER TO ELECTRICAL DRAWINGS.
7. ALL DIFFUSERS & RETURN AIR GRILLES TO MATCH CEILINGS (THROUGHOUT THE ENTIRE RESTAURANT).
8. REFER TO EXTERIOR ELEVATIONS FOR MOUNTING LOCATION OF WALL MOUNTED LIGHT FIXTURES (TYP.)
9. LINE OF CANOPY ABOVE. SUPPLY AND INSTALL BY SIGNAGE VENDOR. REFER TO DETAILS AND STRUCTURAL DRAWINGS.
10. G.C. TO SUPPLY AND INSTALL 20 GA. STAINLESS STEEL PANEL ON CEILING TILE W/ HOLD DOWN CLIP AROUND EXHAUST HOOD. DO NOT FASTEN TO EXHAUST FOOD. ANY DAMAGED TO THE EQUIPMENT HOOD WILL BE AT THE COST OF G.C.
11. CEILING IN PUBLIC RESTROOMS / WASHROOM VESTIBULE TO BE PAINTED GYPSUM BOARD INSTALLED OVER 2" X 4" WOOD CEILING FRAMING @ 2'-0" O.C.
12. RAINWATER LEADER. REFER TO MECHANICAL DRAWINGS.
13. G.C. TO SUPPLY AND INSTALL EXHAUST FAN IN THE CABINET TO VENT ABOVE CEILING AT OFFICE DESK.
14. HOOD USED ONLY WHERE THE CITY REQUESTS HOOD ABOVE EQUIPMENT.
15. FRONT COUNTER BULKHEAD. REFER TO DETAIL 4/A3. FRONT COUNTER BULKHEAD NOT TO BE LESS THAN 6" HIGH (IF SITE ISSUE ARISES IN TERMS OF DUCTWORK INTERFERENCE- GC TO NOTIFY ARCHITECT OF RECORD).
16. JLC T-BAR LED LINEAR LIGHTING FIXTURE INSTALL T-BAR GRID. REFER TO FINISH SCHEDULE.



3 MENU SCREEN DETAIL (WALL MOUNTED)
A3 SCALE: 2"=1'-0"



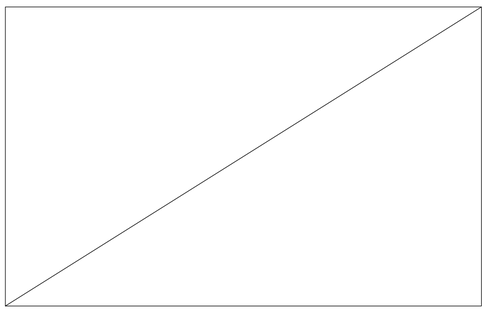
4 FRONT COUNTER BULKHEAD DETAIL
A3 SCALE: 1"=1'-0"

SECURITY CAMERA LEGEND (16.3)

CAP INDEX	SECURITY PACKAGE #	CAMERA #S
0<100	1	1-4
100<250	2	1-8
>250	3	1-12

NOTES:
- WITH PACKAGE #2 AND #3, 4 EXTRA CAMERAS ARE AVAILABLE TO BE LOCATED AT THE OWNERS DISCRETION
* IF A CAMERA IS INSTALLED IN STAFF AREA, OWNER IS TO INFORM STAFF. *

CAMERAS # NUMBER OF CAMERAS



5 N/A
A3 SCALE:

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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ARCHITRAVE GROUP PC Professional Corporation 35935 STATE OF NEW JERSEY RED BANK, NJ

Project

LOUISIANA KITCHEN 19 72

Popeyes

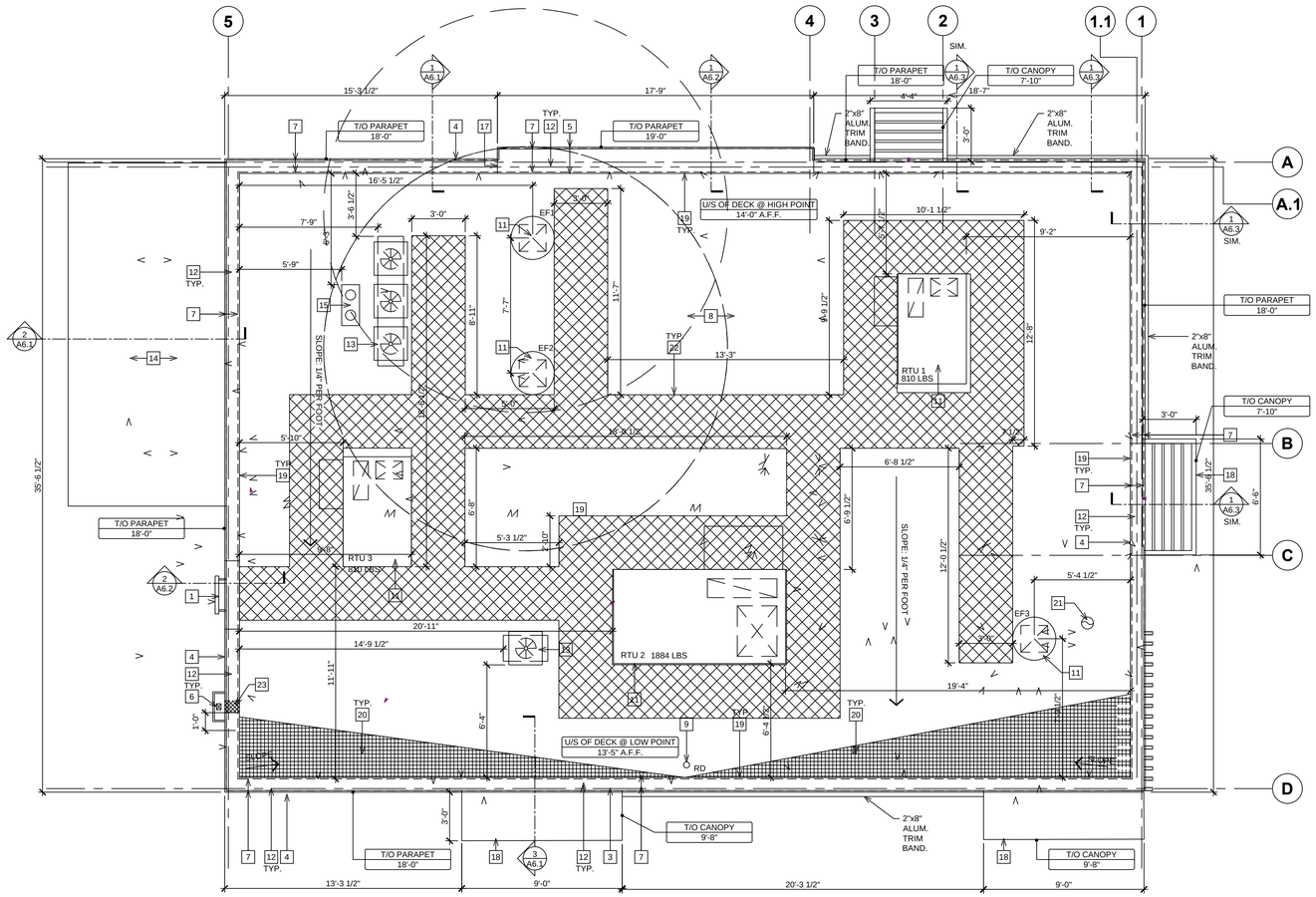
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
REFLECTED CEILING PLAN & DETAILS

Drawn	Checked
JS	JS
Scale: 1/4"=1'-0"	Date: 8/11/23
Project No.: G23-29	Drawing No.: A3

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 A4 ROOF PLAN

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

SYMBOL LEGEND

1 / A1	DETAIL NUMBER / DRAWING NUMBER
1	NOTE REFERENCE

NOTE:
ALL ROOFING TO BE IN STRICT ACCORDANCE WITH THE NATIONAL ROOFING CONTRACTORS ASSOCIATION ROOFING MANUAL

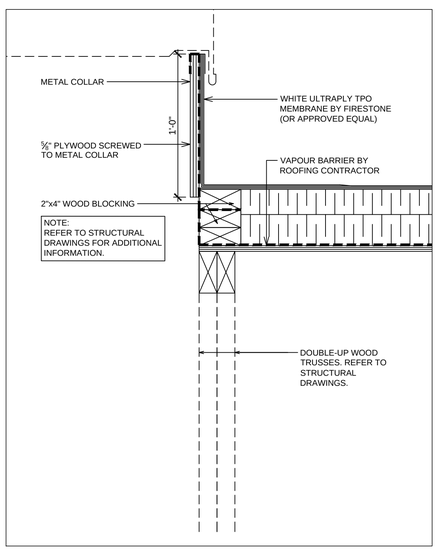
G.C IS RESPONSIBLE FOR SEALING ALL ROOF PENETRATIONS UPON COMPLETION OF THE PROJECT.

ROOF TYPE LEGEND

ROOF ASSEMBLY:
- MAS 60mil WHITE ULTRAPLY TPO MEMBRANE (OR APPROVED EQUAL)
- 2 LAYERS OF RIGID INSULATION (R-27.7 MIN.)
- 10mil VAPOUR RETARDER
- WOOD ROOF DECK
- WOOD TRUSS
(AS PER NRCA STANDARDS)

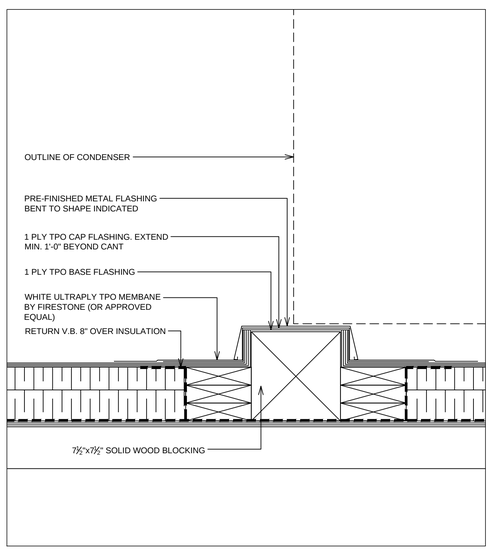
CALCULATED ROOF AREA

HORIZONTAL ROOF SURFACE (S.F)	1694
VERTICAL SURFACE 50% AREA (S.F)	589
TOTAL PROJECTED ROOF AREA (S.F)	2283
DRAINAGE CALCULATIONS:	
(SIZE OF VERTICAL CONDUCTORS AND LEADERS)	
100 YEAR, 1 HOUR RAIN FALL (IN.) (PER FIGURE 1106.1, OHIO PLUMBING CODE)	3"
VERTICAL LEADER SIZE (RECTANGULAR)	3-1/2" X 4"
SPECIFIED LEADER CAPACITY (SINGLE) (PER TABLE 1106.2(2), OHIO PLUMBING CODE	5300 S.F
REQUIRED OVERFLOW SCUPPER SIZE (SINGLE)	1" X 10.7"
VERTICAL LEADER (X1) CAPACITY PROVIDED	5,300 S.F.



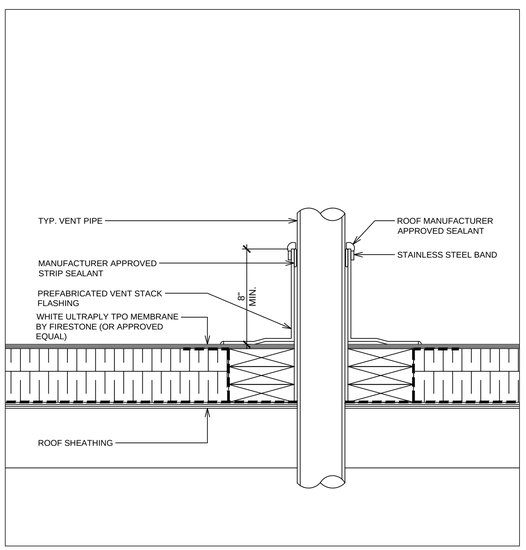
2 A4 TYPICAL ROOF CURB DETAIL

SCALE: 2"=1'-0"



3 A4 TYPICAL SLEEPER DETAIL

SCALE: 2"=1'-0"



4 A4 VENT PENETRATION DETAIL

SCALE: 2"=1'-0"

ROOF PLAN NOTES

1	ROOF ACCESS HATCH TO MATCH PRE-FINISHED METAL CAP FLASHING. REFER TO DETAIL 1/A6.3.
2	N/A.
3	N/A.
4	LINE OF PARAPET. REFER TO DETAIL ON SHEET 1/A7 & 9/A7.
5	LINE OF HIGH PARAPET. REFER TO DETAIL ON SHEET 5/A7.
6	PRE-FINISHED COLLECTOR BOX & DOWNSPOUT. REFER TO DETAIL 2/A4.1.
7	LINE OF WALL BELOW.
8	WHITE ULTRAPLY TPO MEMBRANE BY FIRESTONE (OR APPROVED EQUAL). REFER TO ROOF TYPE SCHEDULE & SPECIFICATIONS.
9	ROOF DRAIN. REFER MECHANICAL DRAWINGS.
10	WHITE ULTRAPLY TPO MEMBRANE BY FIRESTONE (OR APPROVED EQUAL) OVER DIAGONAL BRACING C/W RIGID INSULATION. REFER TO STRUCTURAL DRAWINGS.
11	H.V.A.C UNITS AND EXHAUST FANS AS PER MECHANICAL DRAWINGS. PROVIDE CURB WHERE REQUIRED. REFER TO DETAIL 2/A4.
12	PRE-FINISHED METAL CAP FLASHING. REFER TO EXTERIOR FINISH SCHEDULE ON SHEET A5 FOR COLOUR AND TYPE.
13	PROVIDE SLEEPERS FOR ROOF TOP CONDENSER UNIT. SLEEPERS TO SPAN ACROSS JOISTS BELOW. REFER TO DETAIL 3/A4 & STRUCTURAL DRAWINGS.
14	EXTERIOR WALK-IN COOLER/FREEZER ROOF.
15	G.C TO PROVIDE AND INSTALL DOUBLE PIPE PORTAL (PART NO. 36002) C/W C-126 & C-212 CAP FOR PCL LINES FOR WALK-INS. ROOF OPENING (2'-3⅜" x1'-0") AND ROOF CURBS TO BE PROVIDED AND FURNISHED BY G.C. REFER TO DETAIL 4/A4 & 1/A4.1.
16	PROVIDE & INSTALL 3M NON-SLIP TAPE ON FLASHING AT LADDER LOCATION.
17	VINTAGEBRICK FINISH TO WRAP ON SIDE OF HIGH PARAPET WALLS. REFER TO EXTERIOR ELEVATIONS.
18	CANOPY BELOW. REFER TO EXTERIOR ELEVATIONS.
19	EXTEND ROOF MEMBRANE UP PARAPET WALL AND OVER TOP OF FRAMING (TYP.). SECURE PREFABRICATED ROOF EDGE CLEATS THROUGH MEMBRANE AS SPECIFIED BY MANUFACTURER. REFER TO WALL SECTIONS AND DETAILS.
20	CROSS HATCH INDICATES TAPERED INSULATION OVER SPECIFIED RIGID THERMAL INSULATION (TYP.) FIELD VERIFY ROOF DRAIN LOCATIONS PRIOR TO INSTALLATION & INSTALL PER ROOF MANUFACTURER SPECIFICATIONS. G.C TO COORDINATE ACTUAL EXTENTS OF TAPERED INSULATION MATERIALS WITH ROOF INSTALLER & VERIFY INSTALLED COUNTER SLOPE OF ¼" PER FOOT (MIN., AS MEASURED FROM LEVEL PLANE) TO DIRECT STORM WATER TOWARD ROOF DRAINS AS INDICATED ON PLAN.
21	VENTS. REFER TO MECHANICAL DRAWINGS & DETAIL 4/A4.
22	TPO WALK WAY PADS OR X-TREADS. REFER TO SPECIFICATIONS. CUT TPO WALK WAY PAD ROLLS TO MAXIMUM OF 9'-10". LEAVE A GAP OF 1" BETWEEN PIECES TO ALLOW FOR WATER DRAINAGE.
23	THRU-WALL SCUPPER W/ METAL FLANGE BY ROOFING MANUFACTURER, HOLD TOP OF COLLECTOR BOX 1" BELOW ROOF DECK TO ALLOW FOR SECONDARY OVERFLOW DRAINAGE. SECONDARY ROOF DRAIN SYSTEMS SHALL HAVE THE END POINT OF DISCHARGE SEPARATE FROM THE PRIMARY SYSTEM. DISCHARGE SHALL BE ABOVE GRADE.VERIFY OPENING REQUIREMENTS WITH LOCAL CONDITIONS.

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

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PROJECT NORTH

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Project

LOUISIANA 19 72 KITCHEN

POPEYES

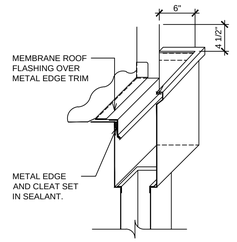
Store Type
US 2112 PROTOTYPE
2112-21

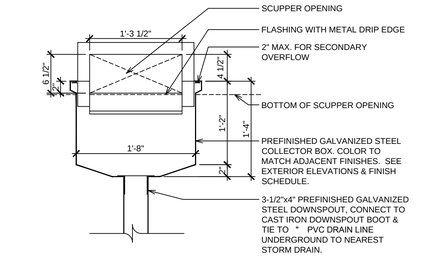
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ROOF PLAN AND DETAILS

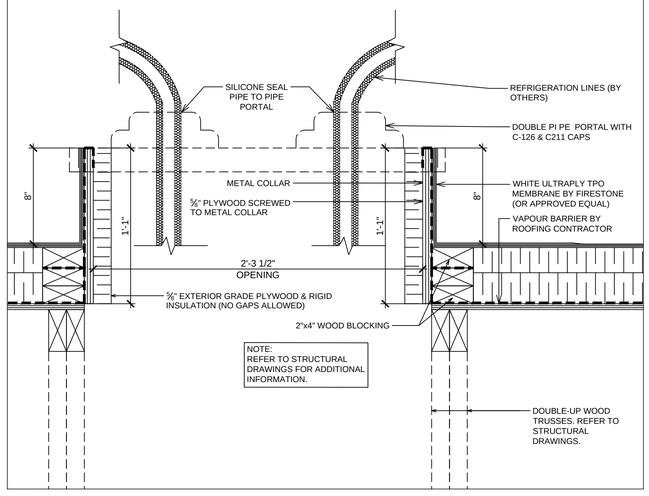
Drawn	Checked
JS	JS
Scale: 1/4"=1'-0"	Date: 8/11/23
Project No.: G23-29	Drawing No.: A4

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185





2 / A4.1 SCUPPER COLLECTOR DETAIL
SCALE: 1"=1'-0"



1 / A4.1 TYPICAL ROOF OPENING DETAIL AT PIPE PORTAL
SCALE: 2"=1'-0"

ISSUE TABLE

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Project

LOUISIANA KITCHEN 19 72

popeyes

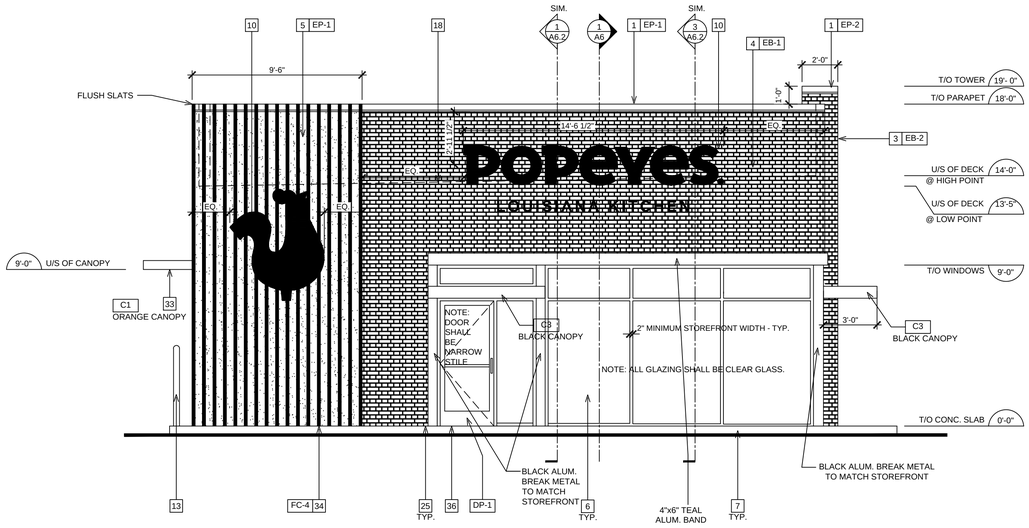
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ROOF DETAILS

Drawn	Checked
XXS	JS
Scale: 1/4"=1'-0"	Date: 8/11/23
Project No.: G23-29	Drawing No.: A4.1

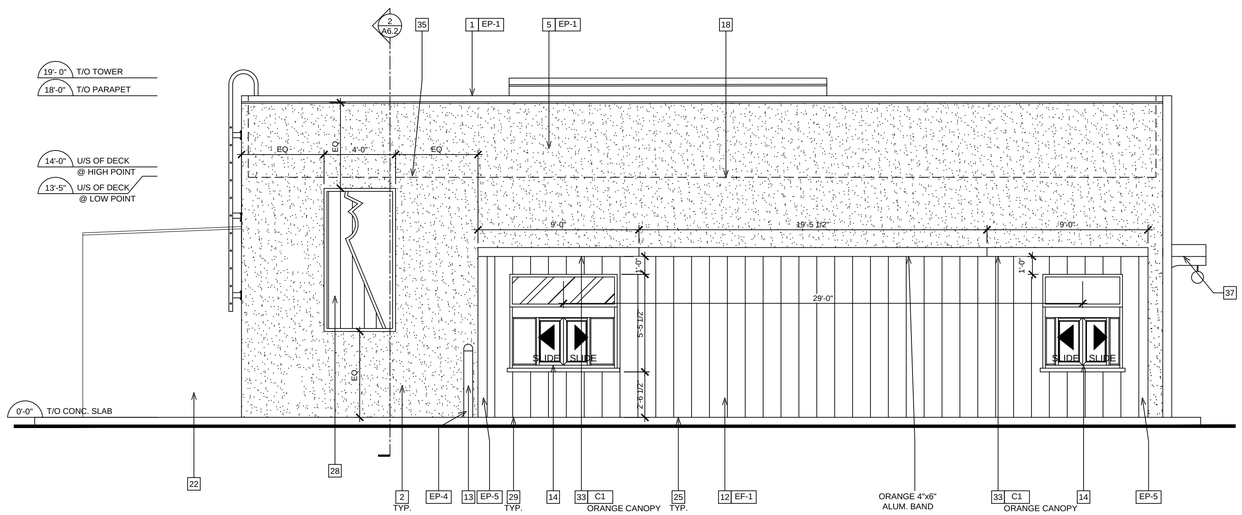
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 / A5 PROPOSED FRONT ELEVATION

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

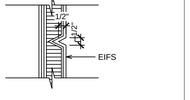
NOTE: LOW SLOPE ROOFING TO BE SINGLE PLY ROOF MEMBRANE.



2 / A5 PROPOSED DT ELEVATION

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

NOTE: LOW SLOPE ROOFING TO BE SINGLE PLY ROOF MEMBRANE.



3 / A5 SECTION DETAIL @ TYPICAL EIFS REVEAL

SCALE: 2½"=1'-0"

GENERAL NOTES

1. SEALANT / CAULKING AROUND DOOR / WINDOW FRAMES. COLOUR: TO MATCH WINDOW / DOOR FRAMES.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW ALL DRAWINGS AND SPECIFICATIONS.

SYMBOL LEGEND

1	NOTE REFERENCE REFER TO ELEVATION NOTES
FN#	FINISH TYPE

EXTERIOR ELEVATION NOTES

1. PRE-FINISHED METAL CAP FLASHING C/W DRIP.
2. G.C TO PROVIDE AND INSTALL DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-2" ABOVE GRADE AT ALL EIFS LOCATIONS (TYP.) IN ORDER TO ATTAIN ABUSE RESISTANCE STUCCO SYSTEM.
3. NICHIHA VINTAGEBRICK, COLOR: ALEXANDRIA BUFF. REFER TO POPEYES MASTER SCHEDULE.
4. NICHIHA VINTAGEBRICK, COLOR: WHITE WASH. REFER TO POPEYES MASTER SCHEDULE.
5. EIFS. REFER TO POPEYES MASTER SCHEDULE.
6. PRE-FINISHED 'BLACK ANODIZED' ALUMINUM STOREFRONT SYSTEM WITH INSULATED GLAZING.
7. EXPOSED FOUNDATION TO BE PARGED AND FREE OF IMPERFECTIONS.
8. GAS UTILITY METER.
9. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION WALL AND FOOTING DETAILS.
10. INTERNALLY ILLUMINATED BUILDING SIGNAGE PROVIDED AND INSTALLED BY SIGN COMPANY. G.C TO PROVIDE AND INSTALL ¾" EXTERIOR GRADE PRESSURE TREATED PLYWOOD BACKING AND ALL FINAL ELECTRICAL CONNECTION. SIGN MANUFACTURER SHALL OBTAIN STRUCTURALLY SEALED DRAWINGS AND SIGNAGE PERMITS FROM THE CITY BASED ON LOCAL REQUIREMENTS. G.C SHALL VERIFY ACTUAL LOCATION & SIZE OF SIGNS WITH SIGN MANUFACTURER'S APPROVED DRAWINGS AND COORDINATE LOCATIONS OF BLOCKING AND UTILITIES. G.C TO COORDINATE WITH SIGN INSTALLER TO USE VHM DRILL BIT WHILE DRILLING FOR ELECTRICAL FEED LINES AND SIGNAGE FASTENERS. ALL ELEMENTS PROVIDED BY SIGNAGE FABRICATOR TO BE REVIEWED AND APPROVED BY POPEYES PRIOR TO PRODUCTION
11. NON-ILLUMINATED BUILDING SIGNAGE PROVIDED AND INSTALLED BY SIGN COMPANY. G.C TO PROVIDE AND INSTALL ¾" EXTERIOR GRADE PRESSURE TREATED PLYWOOD BACKING . SIGN MANUFACTURER SHALL OBTAIN STRUCTURALLY SEALED DRAWINGS AND SIGNAGE PERMITS FROM THE CITY BASED ON LOCAL REQUIREMENTS. G.C SHALL VERIFY ACTUAL LOCATION & SIZE OF SIGNS WITH SIGN MANUFACTURER'S APPROVED DRAWINGS AND COORDINATE LOCATIONS OF BLOCKING AND UTILITIES. G.C TO COORDINATE WITH SIGN INSTALLER TO USE VHM DRILL BIT WHILE DRILLING FOR ELECTRICAL FEED LINES AND SIGNAGE FASTENERS. ALL ELEMENTS PROVIDED BY SIGNAGE FABRICATOR TO BE REVIEWED AND APPROVED BY POPEYES PRIOR TO PRODUCTION
12. NICHIHA VINTAGE WOOD, COLOR: CEDAR. REFER TO POPEYES MASTER SCHEDULE.
13. PROVIDE & INSTALL 6" DIAMETER STEEL PIPE BOLLARD TOP AT 4'-6" A.F.F. G.C. TO PAINT "SAFETY YELLOW". REFER TO POPEYES MASTER SCHEDULE.
14. DRIVE-THRU WINDOW. REFER TO DRIVE-THRU WINDOW SCHEDULE ON SHEET A11.
15. N/A.
16. PRE-FINISHED GALVANIZED STEEL DOWNSPOUT & COLLECTOR BOX. G.C. TO COORDINATE WITH CIVIL ENGINEERS TO CONFIRM IF DOWNSPOUTS ARE SPLASHING ON CONCRETE PAD OR TIED TO THE STORM SEWER LINE. REFER TO MECHANICAL DRAWINGS.
17. N/A.
18. DASHED LINE INDICATES T/O OF ROOF BEHIND PARAPET.
19. C/T CABINET AND METER.
20. LINE OF PARAPET WALLS BEYOND.
21. GENERAL PURPOSE EXTERIOR LIGHTING FIXTURES.
22. WALK-IN COOLER/FREEZER FINISH TO BE COMPLETED BY MANUFACTURER.
23. METAL RAILING SUPPLIED AND INSTALLED BY G.C (ONLY IF REQUIRED). ARCHITECT TO COORDINATE WITH CIVIL ENGINEER ON THE SITE PLAN. PAINT FINISH 'BLACK'.
24. PRE-FINISHED GALVANIZED STEEL DOWNSPOUT & COLLECTOR BOX. G.C. TO COORDINATE CIVIL ENGINEERS TO CONFIRM IF DOWNSPOUTS ARE SPLASHING ON CONCRETE PAD OR TIED TO THE STORM SEWER LINE. REFER TO MECHANICAL DRAWINGS.
25. ALL BASE FLASHING TO MATCH ADJACENT MATERIAL COLORS.
26. HOSE BIB. G.C. TO PAINT. COLOUR TO MATCH ADJACENT STUCCO COORDINATE EXACT LOCATION WITH G.C. REFER TO MECHANICAL DRAWINGS.
27. ½" X ½" REVEAL LINE IN STUCCO FINISH. REFER TO DETAIL 3/A5.
28. DECORATIVE PANELS SUPPLY AND INSTALL BY SIGN COMPANY.
29. G.C TO PROVIDE CONCRETE CURB ALONG DRIVE-THRU LANE. CURB TO PROJECT 8" FROM FACE OF PANELS AND LENGTH OF CURB IS EXTENT OF FEATURE WALL.
30. MURAL GRAPHIC SUPPLY AND INSTALL BY SIGN COMPANY.
31. REAR EXIT DOOR TO BE PAINT WHITE.
32. WALL SCONCE SUPPLY AND INSTALL BY SIGN COMPANY.
33. PRE-FABRICATED CANOPIES W/ PRE-WIRED RECESSED LIGHTS ABOVE DRIVE-THRU SUPPLY BY SIGN COMPANY AND INSTALL BY G.C. ALL CANOPIES IN WALL SUPPORT BY G.C. REFER TO STRUCTURAL DRAWINGS.
34. VERTICAL SIMULATED WOOD SLATS. REFER TO POPEYES MASTER SCHEDULE.
35. WALL SCONCE LIGHTING. REFER TO ELECTRICAL SCHEDULE.
36. CONCRETE SIDEWALK (BY G.C). REFER TO SITE PLAN.
37. HORIZONTAL WOOD GRAIN ENTRANCE CANOPY - TEAL. SUPPORTS SUPPLY BY SIGN COMPANY AND INSTALL BY G.C. PRE-WIRED LED LIGHT RECESSED FIXTURE.

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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ARCHITRAVE GROUP PC Professional Company 526605 NEW JERSEY RED BANK

Project

LOUISIANA KITCHEN 19 72

POPEYES

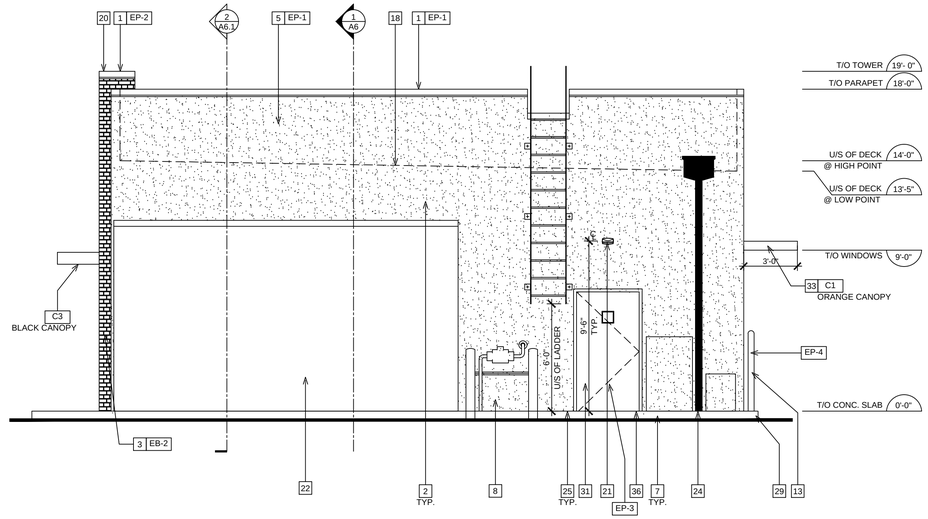
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
EXTERIOR ELEVATIONS

Drawn	Checked
JS	JS
Scale	**Date**
1/4"=1'-0"	8/11/23
Project No.	**Drawing No.**
G23-29	A5

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



2 / A5 PROPOSED REAR ELEVATION

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

NOTE: LOW SLOPE ROOFING TO BE SINGLE PLY ROOF MEMBRANE.

1 / A5.1 PROPOSED SIDE ELEVATION

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

NOTE: LOW SLOPE ROOFING TO BE SINGLE PLY ROOF MEMBRANE.

EXTERIOR ELEVATION NOTES

1. PRE-FINISHED METAL CAP FLASHING C/W DRIP.
2. G.C TO PROVIDE AND INSTALL DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-2" ABOVE GRADE AT ALL EIFS LOCATIONS (TYP.) IN ORDER TO ATTAIN ABUSE RESISTANCE STUCCO SYSTEM.
3. NICHIHA VINTAGEBRICK, COLOR: ALEXANDRIA BUFF. REFER TO POPEYES MASTER SCHEDULE.
4. NICHIHA VINTAGEBRICK, COLOR: WHITE WASH. REFER TO POPEYES MASTER SCHEDULE.
5. EIFS. REFER TO POPEYES MASTER SCHEDULE.
6. PRE-FINISHED 'BLACK ANODIZED' ALUMINUM STOREFRONT SYSTEM WITH INSULATED GLAZING.
7. EXPOSED FOUNDATION TO BE PARGED AND FREE OF IMPERFECTIONS.
8. GAS UTILITY METER.
9. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION WALL AND FOOTING DETAILS.
10. INTERNALLY ILLUMINATED BUILDING SIGNAGE PROVIDED AND INSTALLED BY SIGN COMPANY. G.C TO PROVIDE AND INSTALL ¾" EXTERIOR GRADE PRESSURE TREATED PLYWOOD BACKING AND ALL FINAL ELECTRICAL CONNECTION. SIGN MANUFACTURER SHALL OBTAIN STRUCTURALLY SEALED DRAWINGS AND SIGNAGE PERMITS FROM THE CITY BASED ON LOCAL REQUIREMENTS. G.C SHALL VERIFY ACTUAL LOCATION & SIZE OF SIGNS WITH SIGN MANUFACTURER'S APPROVED DRAWINGS AND COORDINATE LOCATIONS OF BLOCKING AND UTILITIES. G.C TO COORDINATE WITH SIGN INSTALLER TO USE VHM DRILL BIT WHILE DRILLING FOR ELECTRICAL FEED LINES AND SIGNAGE FASTENERS. ALL ELEMENTS PROVIDED BY SIGNAGE FABRICATOR TO BE REVIEWED AND APPROVED BY POPEYES PRIOR TO PRODUCTION
11. NON-ILLUMINATED BUILDING SIGNAGE PROVIDED AND INSTALLED BY SIGN COMPANY. G.C TO PROVIDE AND INSTALL ¾" EXTERIOR GRADE PRESSURE TREATED PLYWOOD BACKING.. SIGN MANUFACTURER SHALL OBTAIN STRUCTURALLY SEALED DRAWINGS AND SIGNAGE PERMITS FROM THE CITY BASED ON LOCAL REQUIREMENTS. G.C SHALL VERIFY ACTUAL LOCATION & SIZE OF SIGNS WITH SIGN MANUFACTURER'S APPROVED DRAWINGS AND COORDINATE LOCATIONS OF BLOCKING AND UTILITIES. G.C TO COORDINATE WITH SIGN INSTALLER TO USE VHM DRILL BIT WHILE DRILLING FOR ELECTRICAL FEED LINES AND SIGNAGE FASTENERS. ALL ELEMENTS PROVIDED BY SIGNAGE FABRICATOR TO BE REVIEWED AND APPROVED BY POPEYES PRIOR TO PRODUCTION
12. NICHIHA VINTAGE WOOD, COLOR: CEDAR. REFER TO POPEYES MASTER SCHEDULE.
13. PROVIDE & INSTALL 6" DIAMETER STEEL PIPE BOLLARD TOP AT 4'-6" A.F.F. G.C. TO PAINT "SAFETY YELLOW". REFER TO POPEYES MASTER SCHEDULE.
14. DRIVE-THRU WINDOW. REFER TO DRIVE-THRU WINDOW SCHEDULE ON SHEET A11.
15. N/A.
16. PRE-FINISHED GALVANIZED STEEL DOWNSPOUT & COLLECTOR BOX. G.C. TO COORDINATE WITH CIVIL ENGINEERS TO CONFIRM IF DOWNSPOUTS ARE SPLASHING ON CONCRETE PAD OR TIED TO THE STORM SEWER LINE. REFER TO MECHANICAL DRAWINGS.
17. N/A.
18. DASHED LINE INDICATES T/O OF ROOF BEHIND PARAPET.
19. C/T CABINET AND METER.
20. LINE OF PARAPET WALLS BEYOND.
21. GENERAL PURPOSE EXTERIOR LIGHTING FIXTURES.
22. WALK-IN COOLER/FREEZER FINISH TO BE COMPLETED BY MANUFACTURER.
23. METAL RAILING SUPPLIED AND INSTALLED BY G.C (ONLY IF REQUIRED). ARCHITECT TO COORDINATE WITH CIVIL ENGINEER ON THE SITE PLAN. PAINT FINISH 'BLACK'.
24. PRE-FINISHED GALVANIZED STEEL DOWNSPOUT & COLLECTOR BOX. G.C. TO COORDINATE CIVIL ENGINEERS TO CONFIRM IF DOWNSPOUTS ARE SPLASHING ON CONCRETE PAD OR TIED TO THE STORM SEWER LINE. REFER TO MECHANICAL DRAWINGS.
25. ALL BASE FLASHING TO MATCH ADJACENT MATERIAL COLORS.
26. HOSE BIB. G.C. TO PAINT. COLOUR TO MATCH ADJACENT STUCCO COORDINATE EXACT LOCATION WITH G.C. REFER TO MECHANICAL DRAWINGS.
27. ½" X ½" REVEAL LINE IN STUCCO FINISH. REFER TO DETAIL 3/A5.
28. DECORATIVE PANELS SUPPLY AND INSTALL BY SIGN COMPANY.
29. G.C TO PROVIDE CONCRETE CURB ALONG DRIVE-THRU LANE. CURB TO PROJECT 8" FROM FACE OF PANELS AND LENGTH OF CURB IS EXTENT OF FEATURE WALL.
30. MURAL GRAPHIC SUPPLY AND INSTALL BY SIGN COMPANY.
31. REAR EXIT DOOR TO BE PAINT WHITE.
32. WALL SCONCE SUPPLY AND INSTALL BY SIGN COMPANY.
33. PRE-FABRICATED CANOPIES W/ PRE-WIRED RECESSED LIGHTS ABOVE DRIVE-THRU SUPPLY BY SIGN COMPANY AND INSTALL BY G.C. ALL CANOPIES IN WALL SUPPORT BY G.C. REFER TO STRUCTURAL DRAWINGS.
34. VERTICAL SIMULATED WOOD SLATS. REFER TO POPEYES MASTER SCHEDULE.
35. WALL SCONCE LIGHTING. REFER TO ELECTRICAL SCHEDULE.
36. CONCRETE SIDEWALK (BY G.C). REFER TO SITE PLAN.
37. HORIZONTAL WOOD GRAIN ENTRANCE CANOPY - TEAL. SUPPORTS SUPPLY BY SIGN COMPANY AND INSTALL BY G.C. PRE-WIRED LED LIGHT RECESSED FIXTURE.

GENERAL NOTES

1. SEALANT / CAULKING AROUND DOOR / WINDOW FRAMES. COLOUR: TO MATCH WINDOW / DOOR FRAMES.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW ALL DRAWINGS AND SPECIFICATIONS.

SYMBOL LEGEND

1	NOTE REFERENCE REFER TO ELEVATION NOTES
FN#	FINISH TYPE

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

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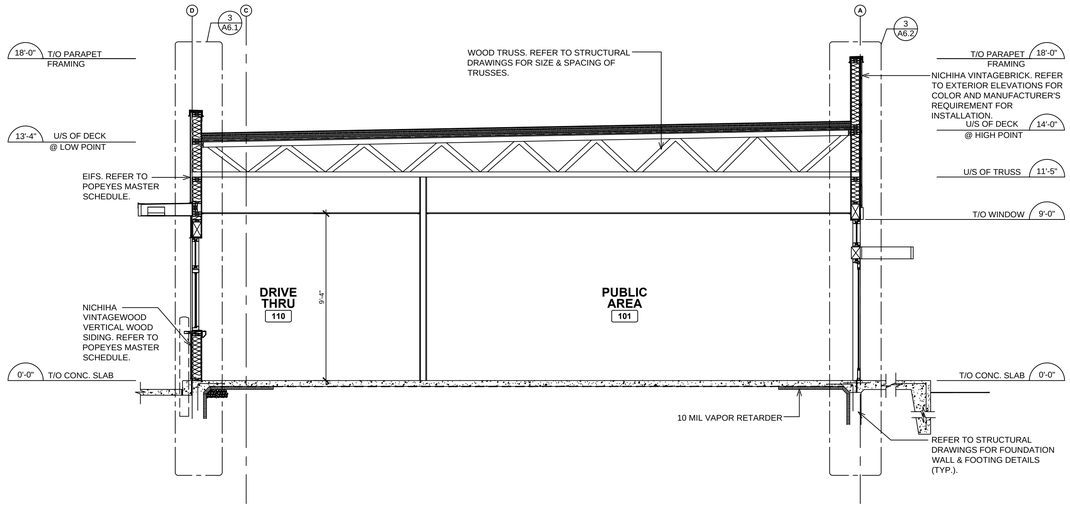
Project

LOUISIANA KITCHEN 19 72 POPEYES

Store Type	US 2112 PROTOTYPE 2112-21
Location	PROTOTYPE 2112 (U.S.) 503 W. 3RD STREET PEMBROKE, NORTH CAROLINA
Drawing Title	EXTERIOR ELEVATIONS

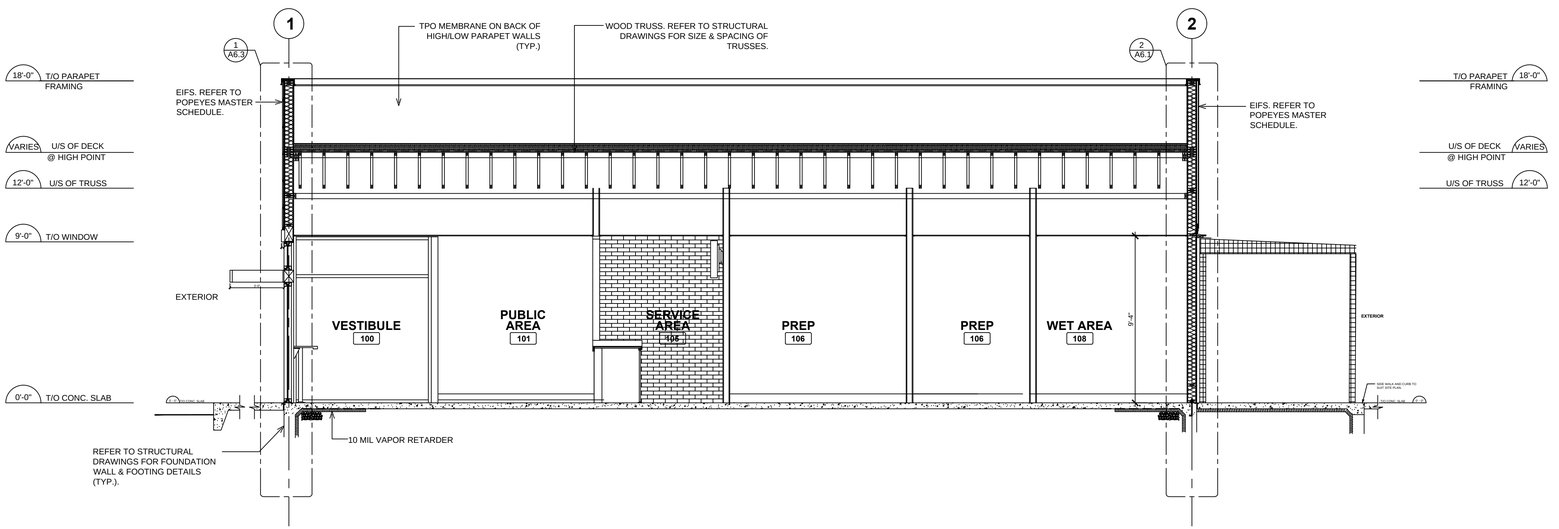
Drawn: JS	Checked: JS
Scale: 1/4"=1'-0"	Date: 8/11/23
Project No.: G23-29	Drawing No.: A5.1

POPEYES LOUISIANA KITCHEN MODEL 2112. 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 A6 **BUILDING SECTION**

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



2 A6 **BUILDING SECTION**

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

NOTE:

CONTINUE GYPSUM BOARD TO U/S OF DECK & BETWEEN TRUSSES AT EXTERIOR WALLS (TYP.).

ISSUE TABLE

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Project

LOUISIANA 19 72 KITCHEN

POPEYES

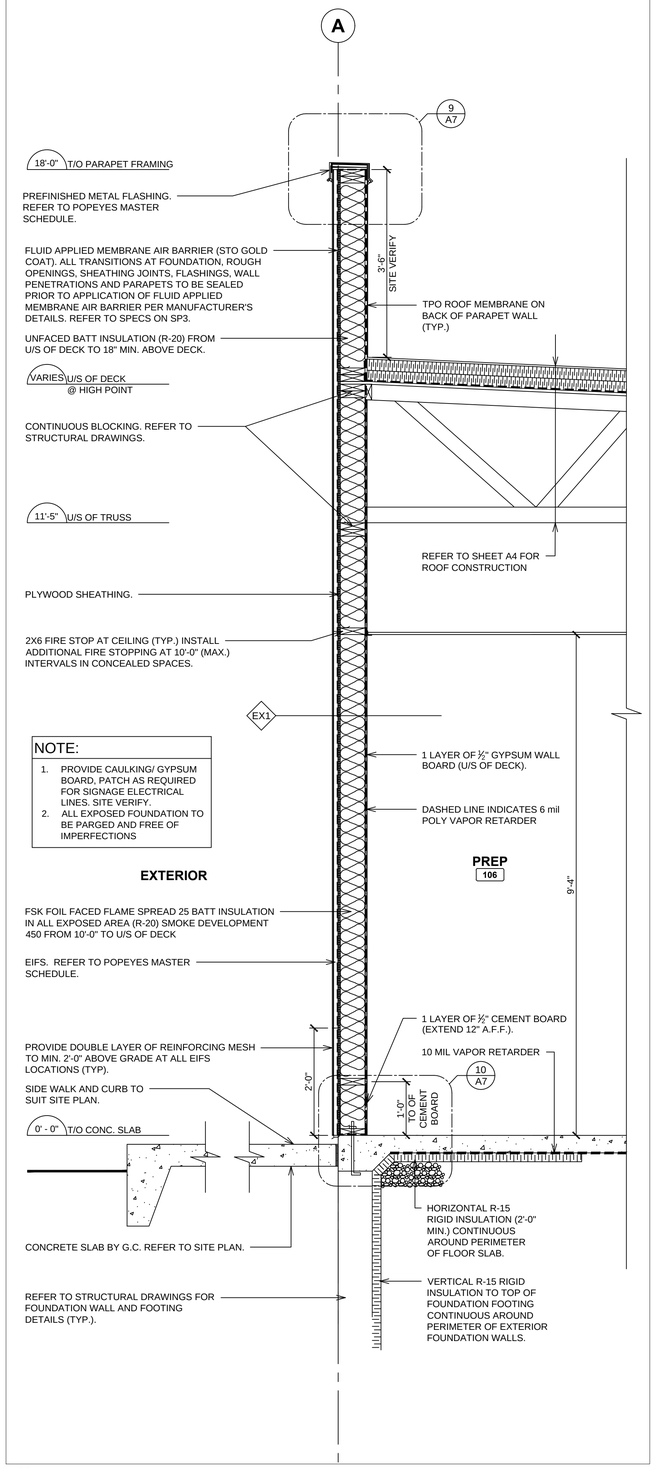
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

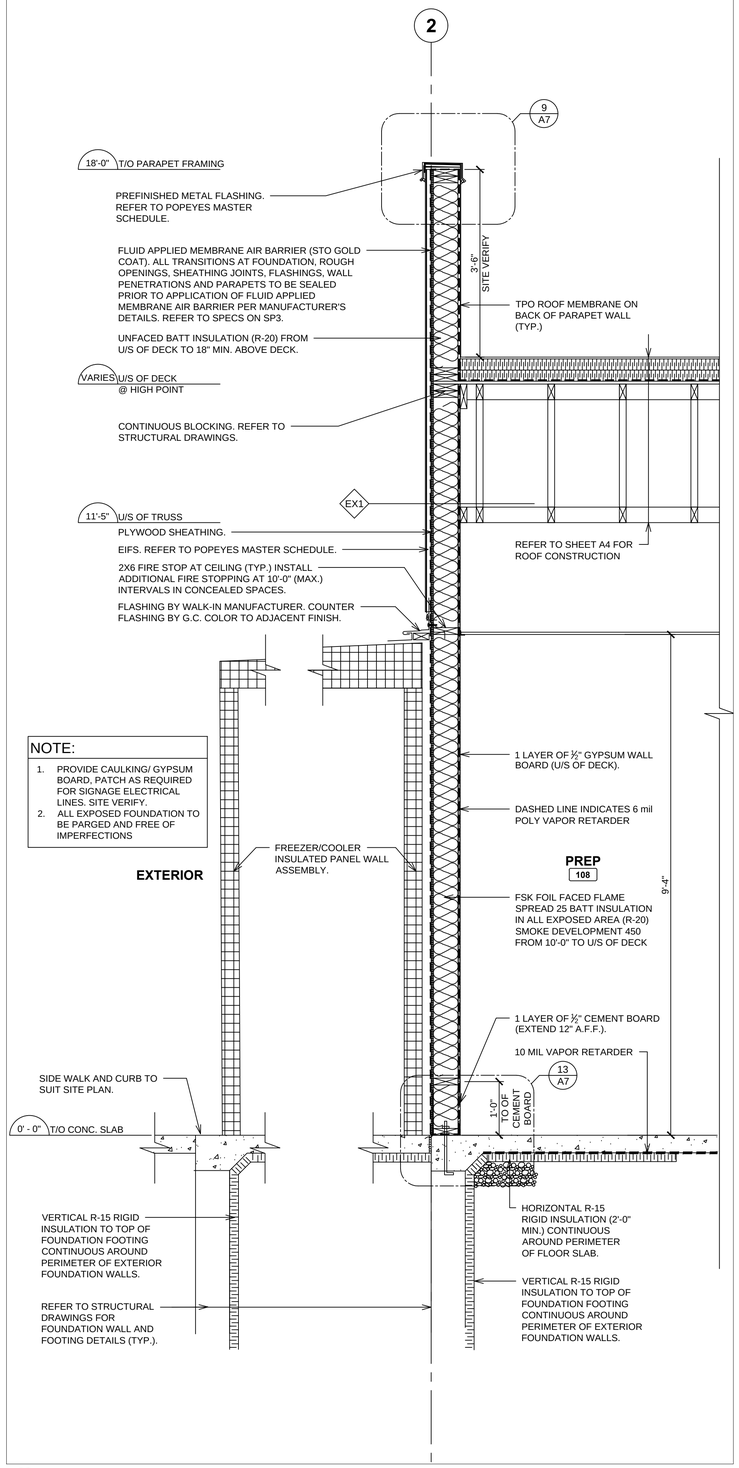
Drawing Title
BUILDING SECTIONS

Drawn	Checked
JS	JS
Scale	**Date**
AS NOTED	8/11/23
Project No.	**Drawing No.**
G23-29	A6

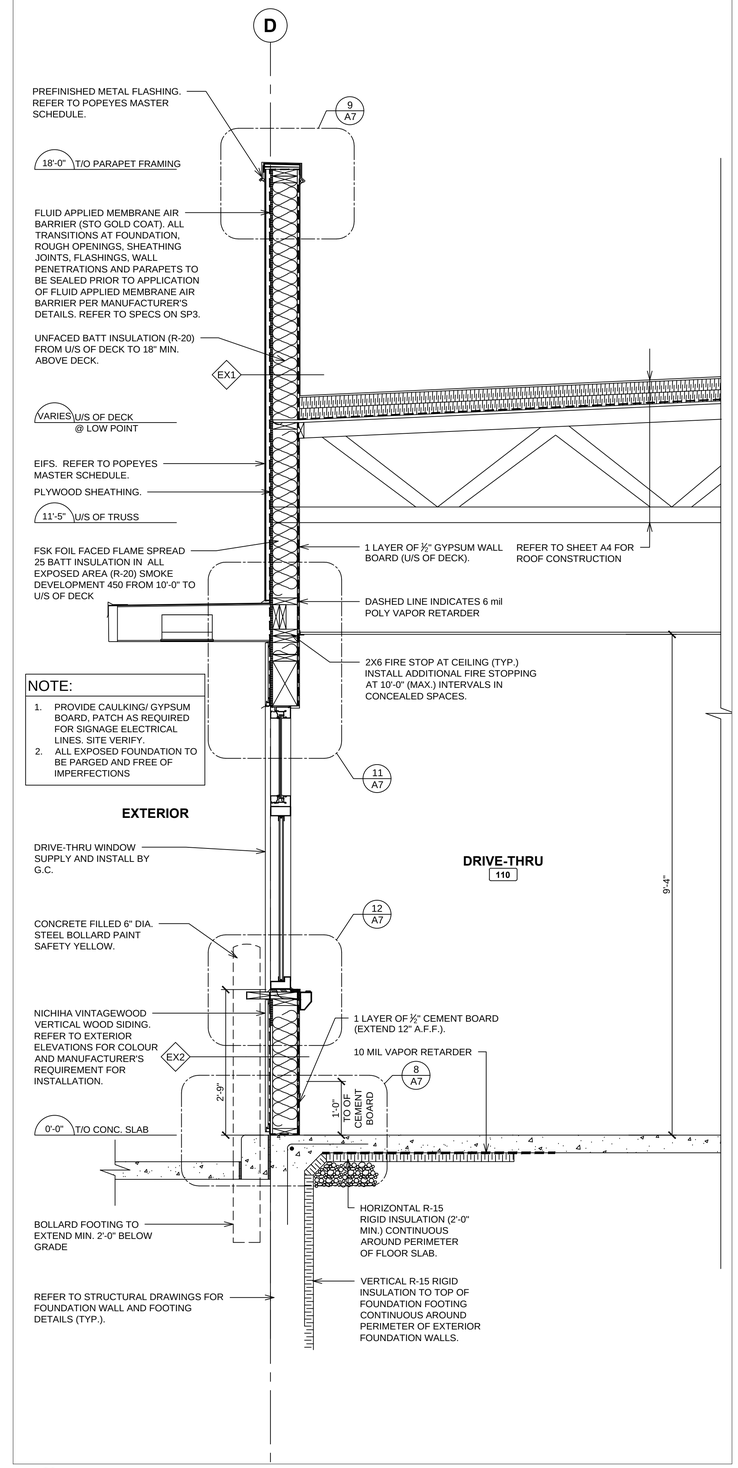
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 A6.1 **WALL SECTION (EIFS)**
SCALE: 3/4" = 1'-0"



2 A6.1 **WALL SECTION @ WALK-IN (EIFS)**
SCALE: 3/4" = 1'-0"



3 A6.1 **WALL SECTION @ DRIVE-THRU WINDOW (SIDING / EIFS)**
SCALE: 3/4" = 1'-0"

ISSUE TABLE

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N
PROJECT NORTH

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Project
LOUISIANA KITCHEN 19 72
POPEYES

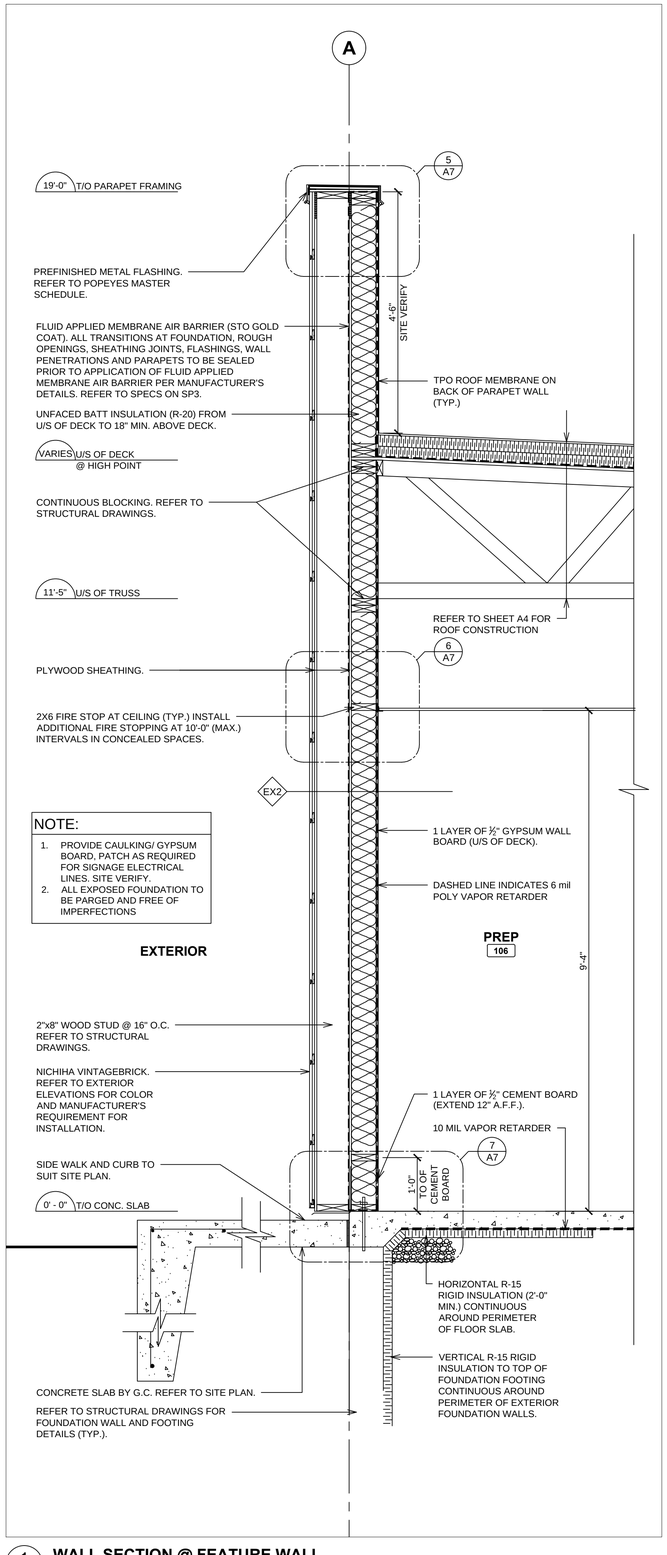
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
WALL SECTIONS

Drawn	Checked
JS	JS
Scale	**Date**
AS NOTED	8/11/23
Project No.	**Drawing No.**
G23-29	A6.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

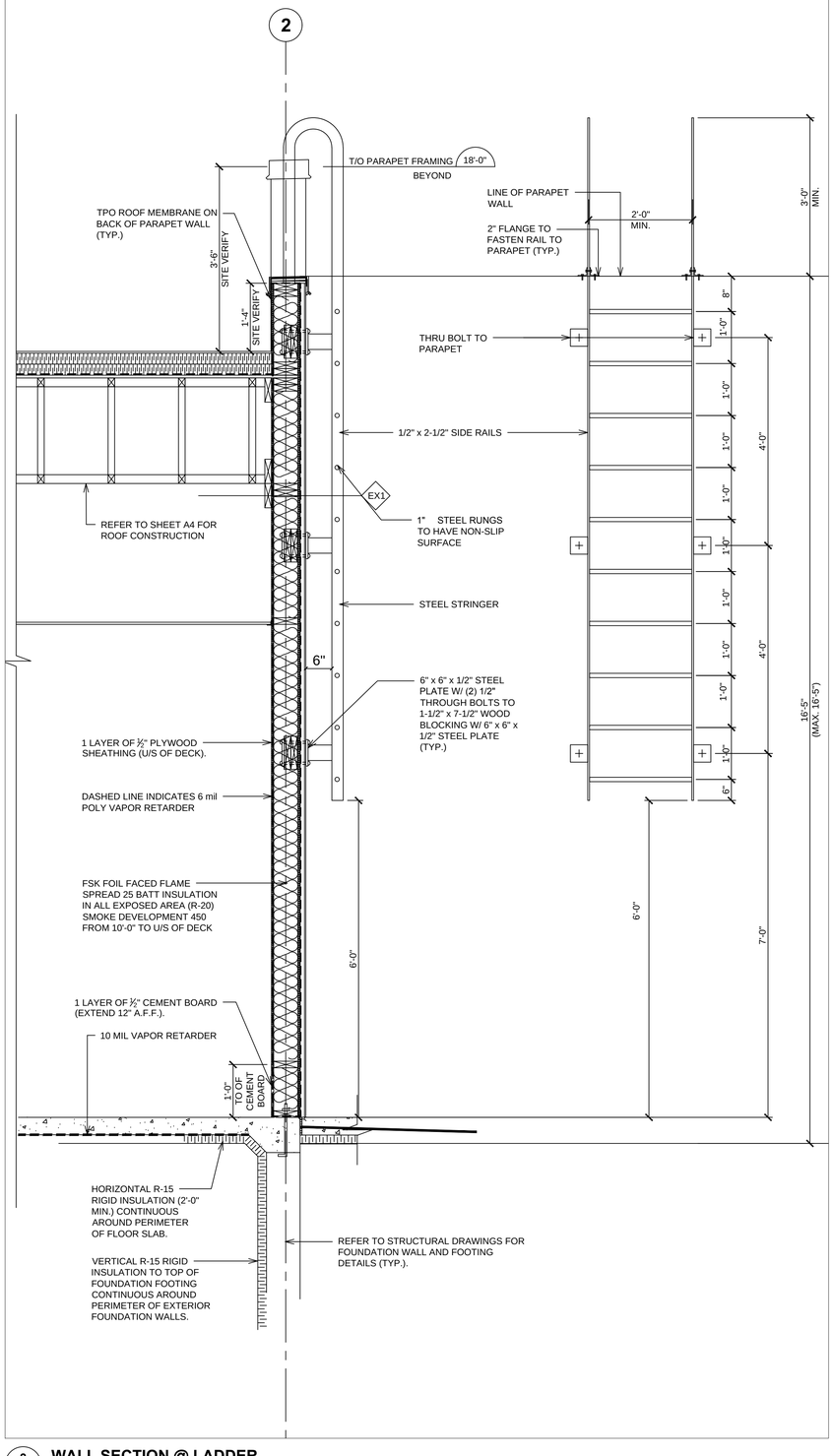


NOTE:

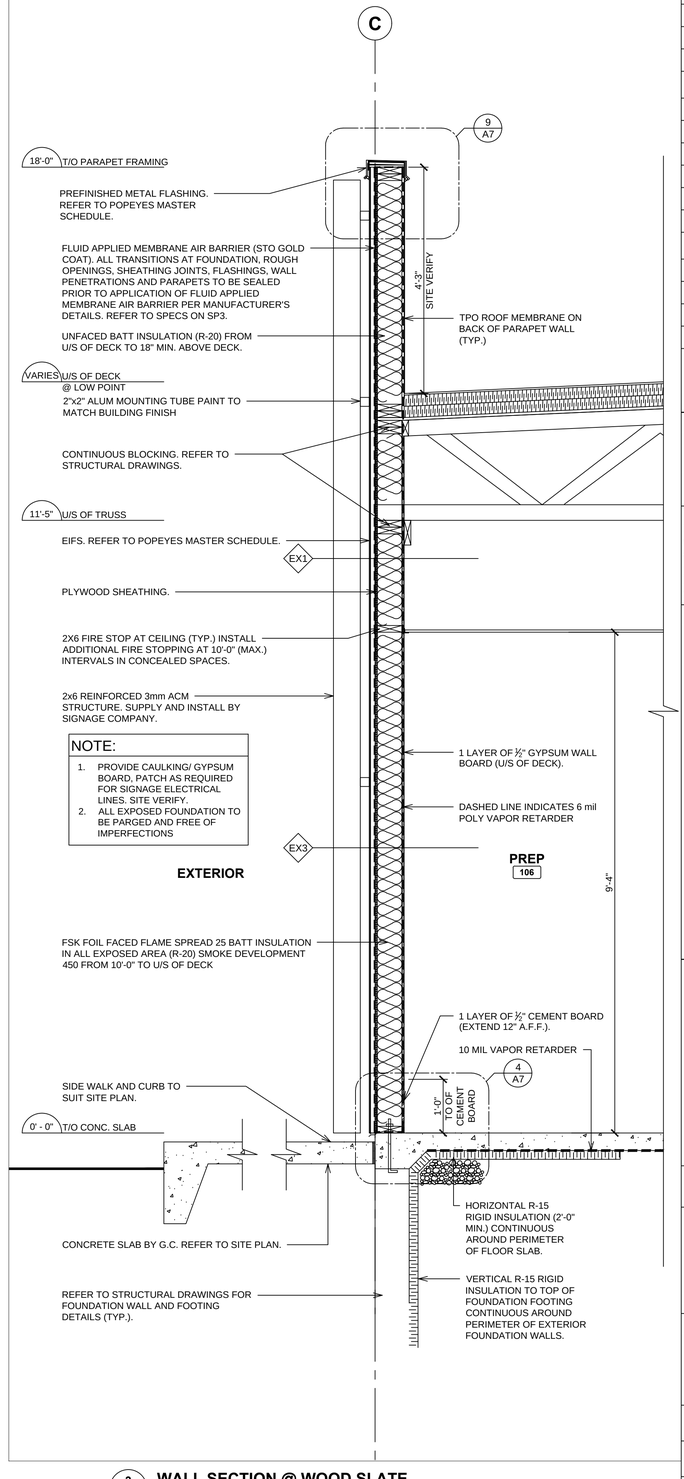
1. PROVIDE CAULKING/ GYPSUM BOARD, PATCH AS REQUIRED FOR SIGNAGE ELECTRICAL LINES. SITE VERIFY.
2. ALL EXPOSED FOUNDATION TO BE PARGED AND FREE OF IMPERFECTIONS

EXTERIOR

1 **WALL SECTION @ FEATURE WALL**
A6.2 SCALE: 3/4" = 1'-0"



2 **WALL SECTION @ LADDER**
A6.2 SCALE: 3/4" = 1'-0"



NOTE:

1. PROVIDE CAULKING/ GYPSUM BOARD, PATCH AS REQUIRED FOR SIGNAGE ELECTRICAL LINES. SITE VERIFY.
2. ALL EXPOSED FOUNDATION TO BE PARGED AND FREE OF IMPERFECTIONS

EXTERIOR

3 **WALL SECTION @ WOOD SLATE**
A6.2 SCALE: 3/4" = 1'-0"

ISSUE TABLE

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Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type	
US 2112 PROTOTYPE 2112-21	

Location

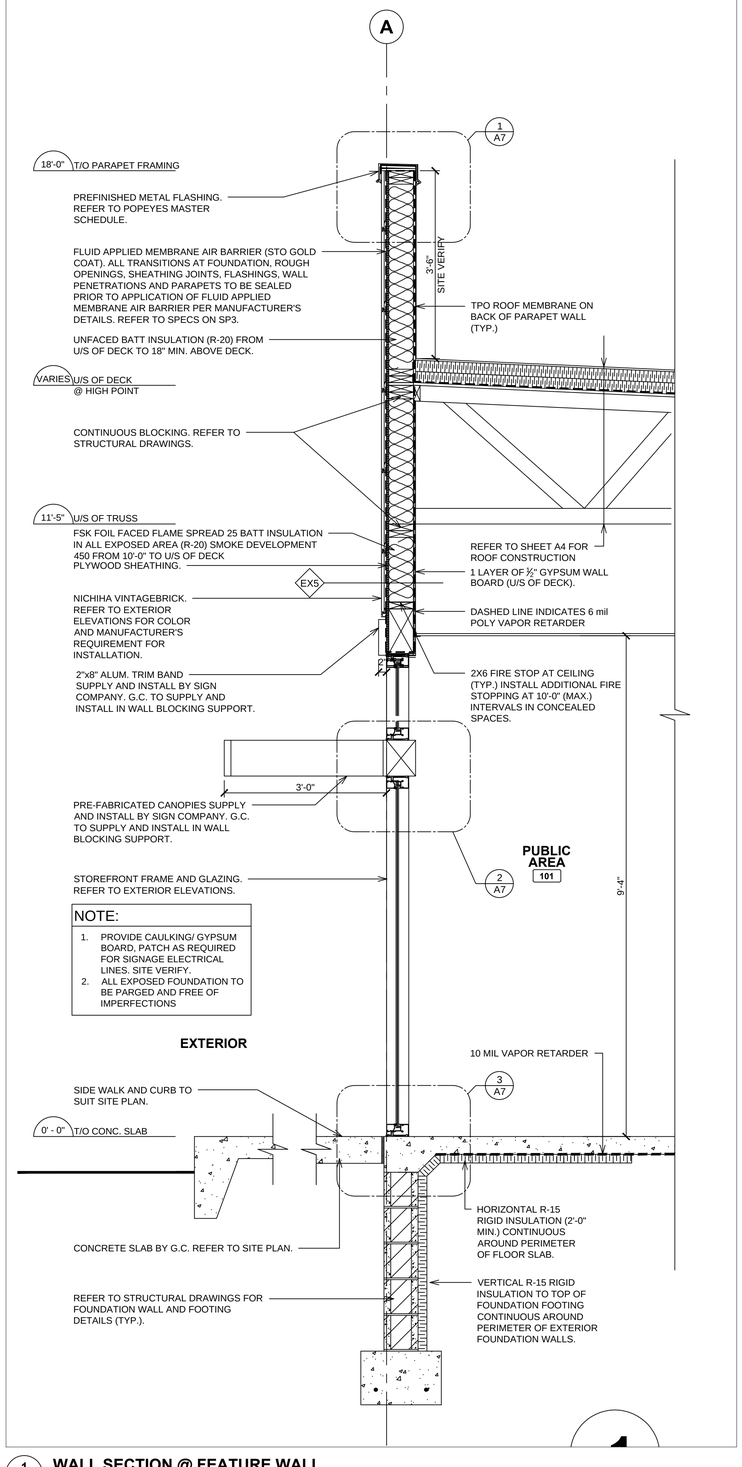
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title

WALL SECTIONS

Drawn	Checked
JS	JS
Scale	**Date**
AS NOTED	8/11/23
Project No.	**Drawing No.**
G23-29	A6.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 A6.2 **WALL SECTION @ FEATURE WALL**

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

ISSUE TABLE

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ARCHITRAVE GROUP PC Professional Corporation 52665 NJ RED BANK

Project

LOUISIANA KITCHEN 19 72

POPEYES

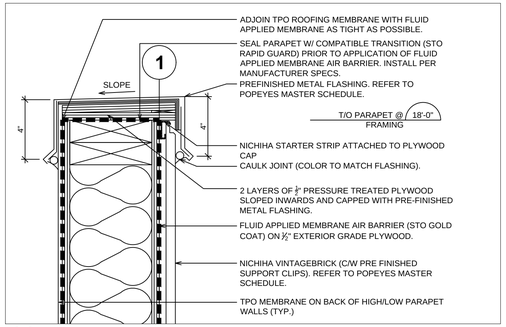
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
WALL SECTIONS

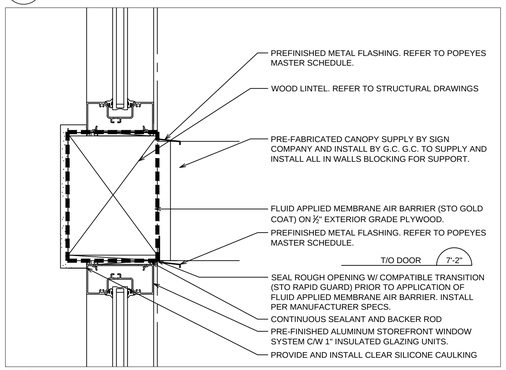
Drawn	Checked
JS	JS
Scale: AS NOTED	Date: 8/11/23
Project No.: G23-29	Drawing No.: A6.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



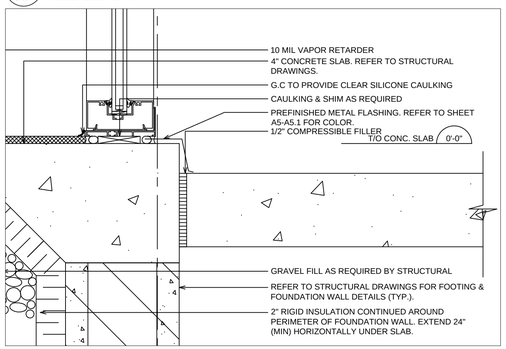
1 / A7 SECTION DETAIL @ PARAPET (SIDING)

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



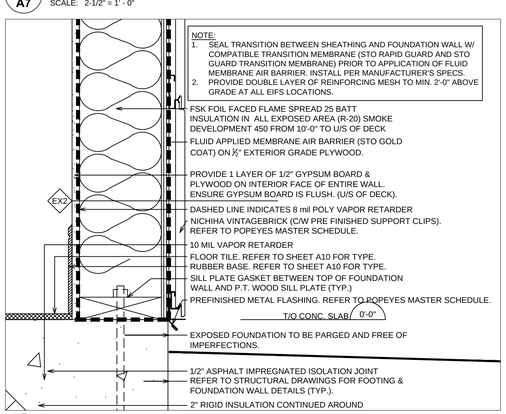
2 / A7 SECTION DETAIL @ WINDOW HEAD AT EIFS

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



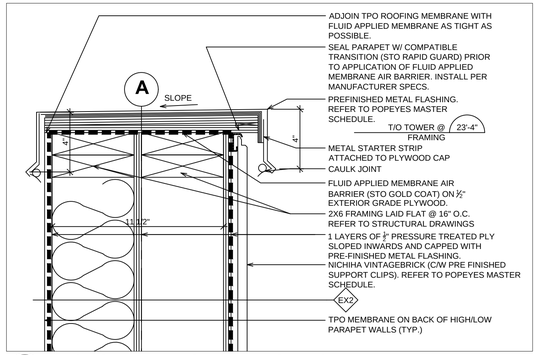
3 / A7 SECTION DETAIL @ FOUNDATION (WINDOW)

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



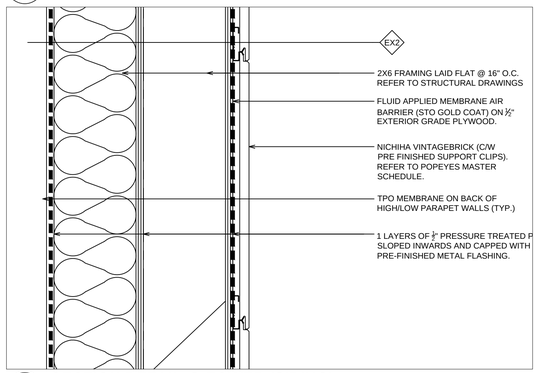
4 / A7 SECTION DETAIL @ FOUNDATION (WINDOW)

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



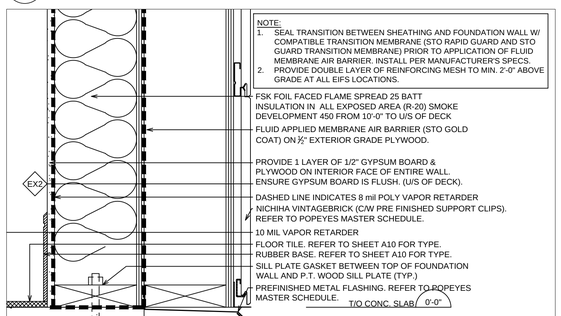
5 / A7 SECTION DETAIL @ TOWER (SIDING)

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



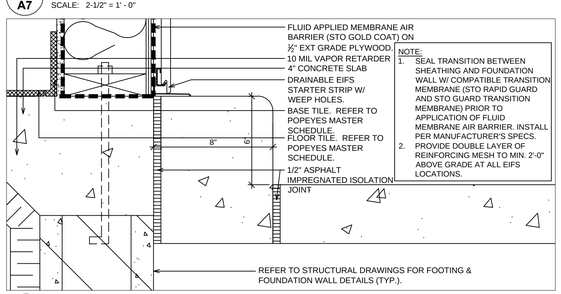
6 / A7 SECTION DETAIL @ TOWER (SIDING)

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



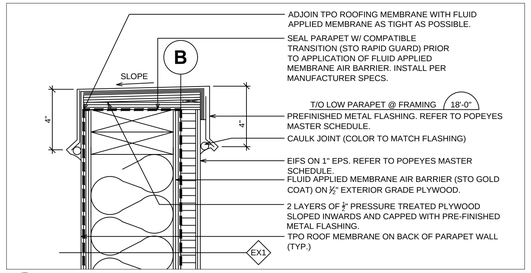
7 / A7 SECTION DETAIL @ FOUNDATION (SIDING @ TOWER)

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



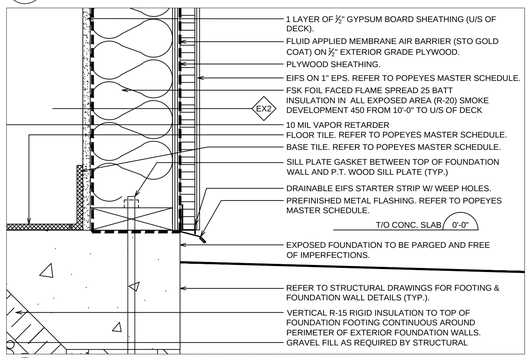
8 / A7 SECTION DETAIL @ FOUNDATION (D/T WINDOW)

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



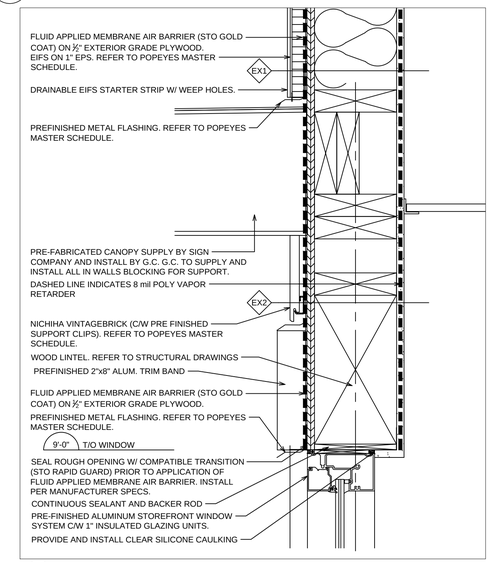
9 / A7 SECTION DETAIL @ PARAPET (TYPICAL EIFS)

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



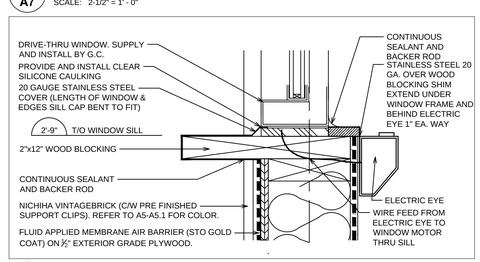
10 / A7 SECTION DETAIL @ FOUNDATION (EIFS)

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



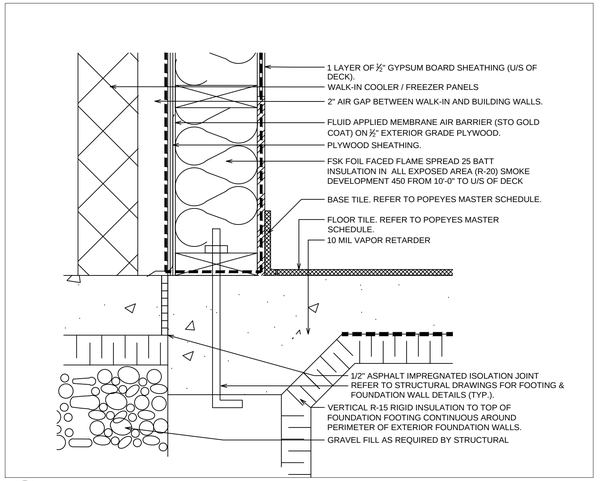
11 / A7 SECTION DETAIL @ DRIVE-THRU WINDOW HEADER

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



12 / A7 SECTION DETAIL @ DRIVE-THRU WINDOW SILL

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



13 / A7 SECTION DETAIL @ WALK-IN BOX

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

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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JOSE C. SANTOS REGISTERED ARCHITECT 12260 VIRGINIA NORTH CAROLINA TN NJ NY FRED BANK

ARCHITRAVE GROUP PC Registered Professional Corporation 52665 FRED BANK

Project

LOUISIANA KITCHEN 19 72 POPEYES

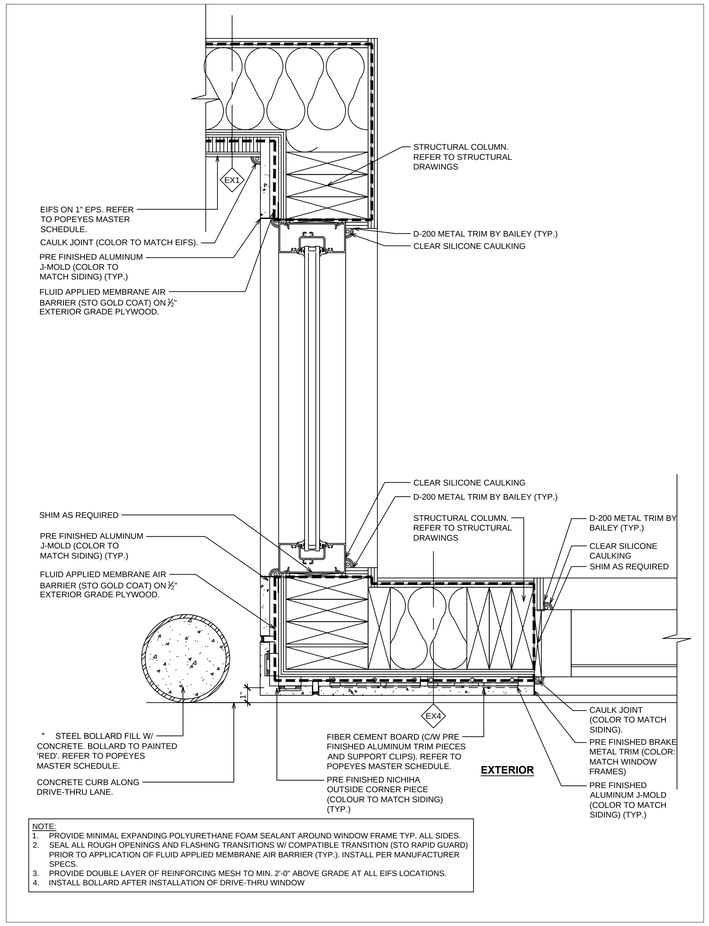
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
SECTION DETAILS

Drawn	Checked
JS	JS
Scale: AS NOTED	Date: 8/11/23
Project No.: G23-29	Drawing No.: A7

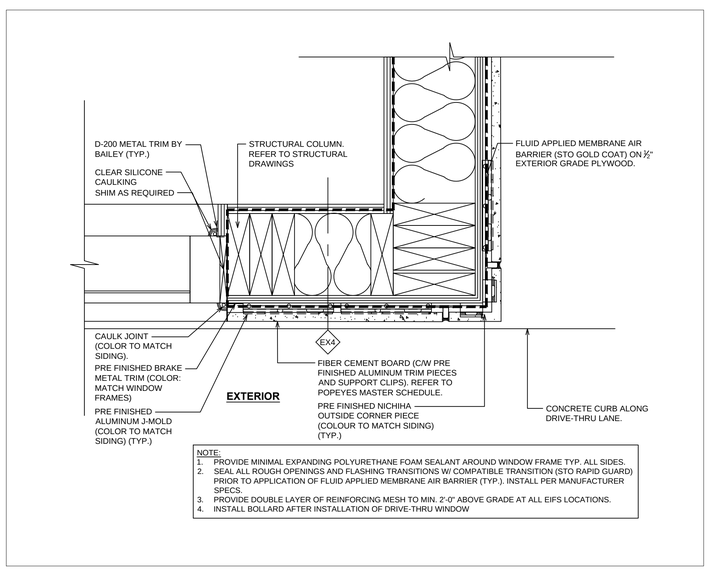
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



NOTE:
1. PROVIDE MINIMAL EXPANDING POLYURETHANE FOAM SEALANT AROUND WINDOW FRAME TYP. ALL SIDES.
2. SEAL ALL ROUGH OPENINGS AND FLASHING TRANSITIONS W/ COMPATIBLE TRANSITION (STO RAPID GUARD) PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER (TYP.). INSTALL PER MANUFACTURER SPECS.
3. PROVIDE DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-0" ABOVE GRADE AT ALL EIFS LOCATIONS.
4. INSTALL BOLLARD AFTER INSTALLATION OF DRIVE-THRU WINDOW

1 A7.1 PLAN DETAIL @ DRIVE-THRU WINDOW

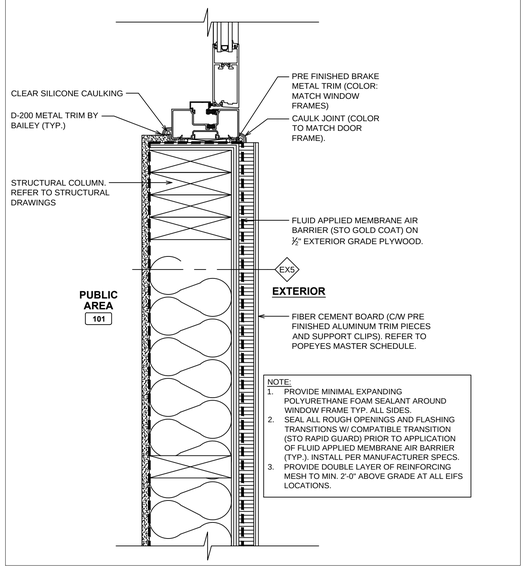
SCALE: 2½"=1'-0"



NOTE:
1. PROVIDE MINIMAL EXPANDING POLYURETHANE FOAM SEALANT AROUND WINDOW FRAME TYP. ALL SIDES.
2. SEAL ALL ROUGH OPENINGS AND FLASHING TRANSITIONS W/ COMPATIBLE TRANSITION (STO RAPID GUARD) PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER (TYP.). INSTALL PER MANUFACTURER SPECS.
3. PROVIDE DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-0" ABOVE GRADE AT ALL EIFS LOCATIONS.
4. INSTALL BOLLARD AFTER INSTALLATION OF DRIVE-THRU WINDOW

2 A7.1 PLAN DETAIL @ DRIVE-THRU BUMP OUT

SCALE: 2½"=1'-0"



NOTE:
1. PROVIDE MINIMAL EXPANDING POLYURETHANE FOAM SEALANT AROUND WINDOW FRAME TYP. ALL SIDES.
2. SEAL ALL ROUGH OPENINGS AND FLASHING TRANSITIONS W/ COMPATIBLE TRANSITION (STO RAPID GUARD) PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER (TYP.). INSTALL PER MANUFACTURER SPECS.
3. PROVIDE DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-0" ABOVE GRADE AT ALL EIFS LOCATIONS.

3 A7.1 PLAN DETAIL @ DOOR

SCALE: 2½"=1'-0"

NOTE:
1. PROVIDE MINIMAL EXPANDING POLYURETHANE FOAM SEALANT AROUND WINDOW FRAME TYP. ALL SIDES.
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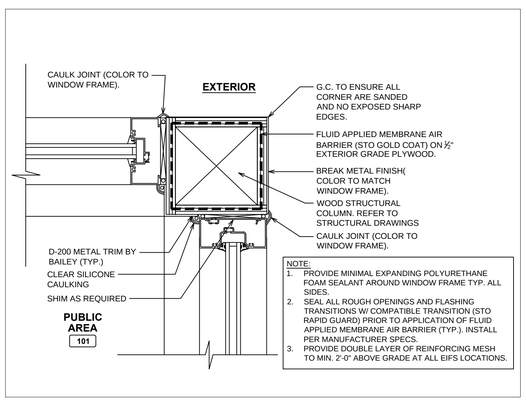
3. PROVIDE DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-0" ABOVE GRADE AT ALL EIFS LOCATIONS.

4 A7.1 PLAN DETAIL @ WINDOW FRAME

SCALE: 2½"=1'-0"



NOTE:
1. PROVIDE MINIMAL EXPANDING POLYURETHANE FOAM SEALANT AROUND WINDOW FRAME TYP. ALL SIDES.
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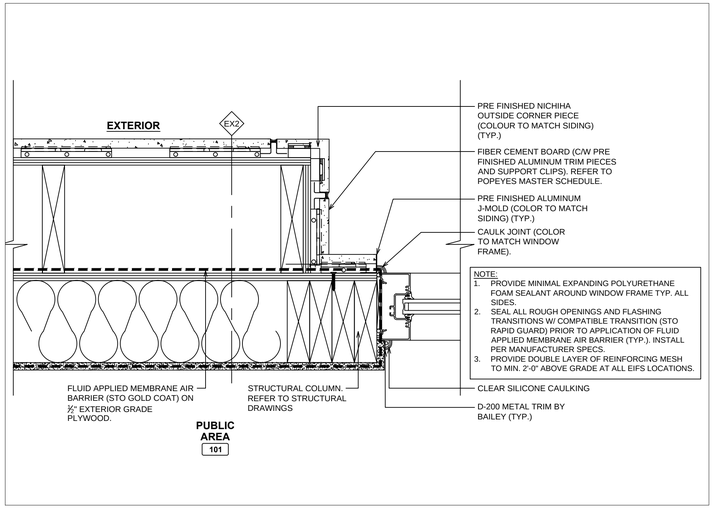
3. PROVIDE DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-0" ABOVE GRADE AT ALL EIFS LOCATIONS.

5 A7.1 PLAN DETAIL @ CORNER

SCALE: 2½"=1'-0"



NOTE:
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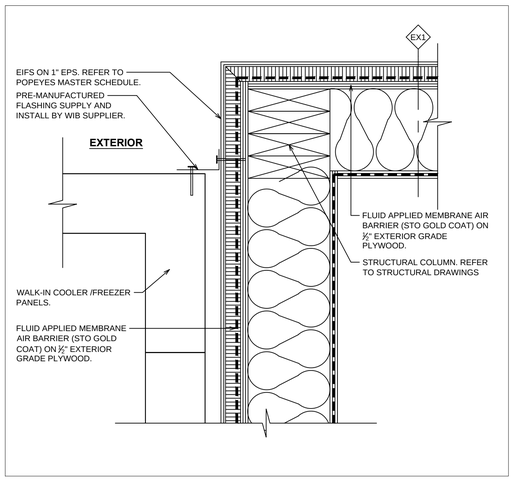
2. SEAL ALL ROUGH OPENINGS AND FLASHING TRANSITIONS (STO RAPID GUARD) PRIOR TO APPLICATION OF FLUID APPLIED MEMBRANE AIR BARRIER (TYP.). INSTALL PER MANUFACTURER SPECS.
3. PROVIDE DOUBLE LAYER OF REINFORCING MESH TO MIN. 2'-0" ABOVE GRADE AT ALL EIFS LOCATIONS.

6 A7.1 PLAN DETAIL @ TOWER

SCALE: 2½"=1'-0"

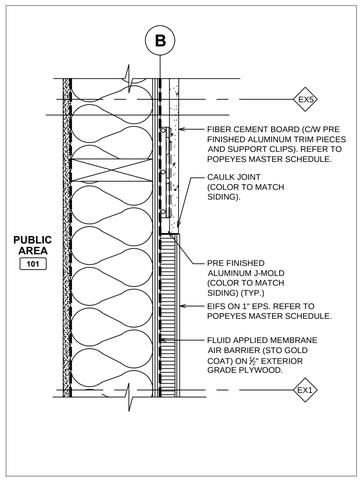


8 A7.1 PLAN DETAIL @ WALK-IN BOX

SCALE: 2½"=1'-0"

9 A7.1 PLAN DETAIL @ CORNER

SCALE: 2½"=1'-0"



10 A7.1 PLAN DETAIL @ FINISH TRANSITION

SCALE: 2½"=1'-0"

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project

LOUISIANA KITCHEN 19 72

popeyes

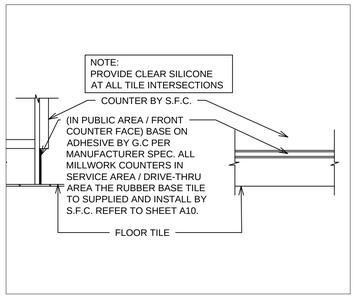
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
PLAN DETAILS

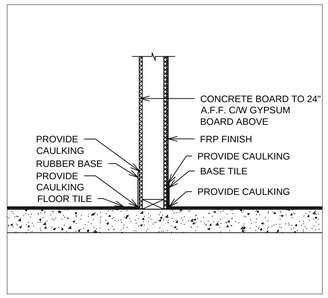
Drawn	Checked
JS	JS
Scale: AS NOTED	Date: 8/11/23
Project No.: G23-29	Drawing No.: A7.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



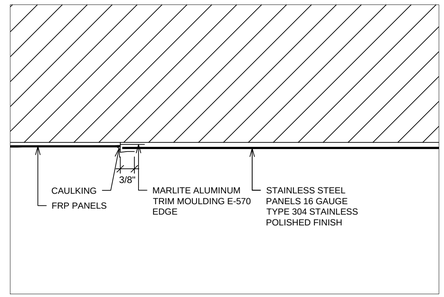
5 A8 **RUBBER BASE @ COUNTER**

SCALE: 1" = 1'-0"



4 A8 **BASE @ FRP & GYPSUM BOARD**

SCALE: 1" = 1'-0"



1 A8 **FRP-STAINLESS STEEL TRIM DETAIL**

SCALE: 6" = 1'-0"

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

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ARCHITRAVE GROUP PC Professional Corporation 526S5 RED BANK, N.J.

Project

LOUISIANA 19 72 KITCHEN

popeyes

Store Type

US 2112 PROTOTYPE
2112-21

Location

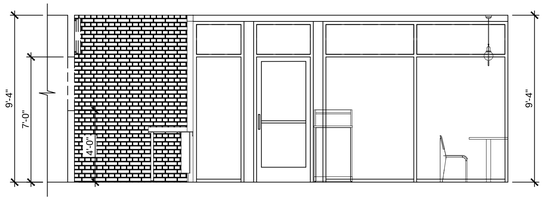
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title

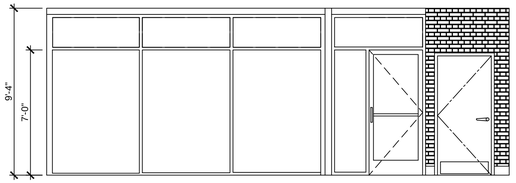
DETAILS

Drawn	Checked
JS	JS
Scale	**Date**
AS NOTED	8/11/23
Project No.	**Drawing No.**
G23-29	A8

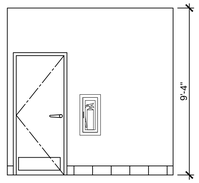
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



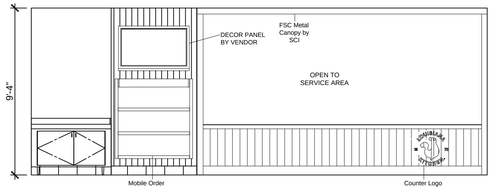
1 / A9 **SERVICE AREA / PUBLIC AREA**
SCALE: 1/4" = 1'-0"



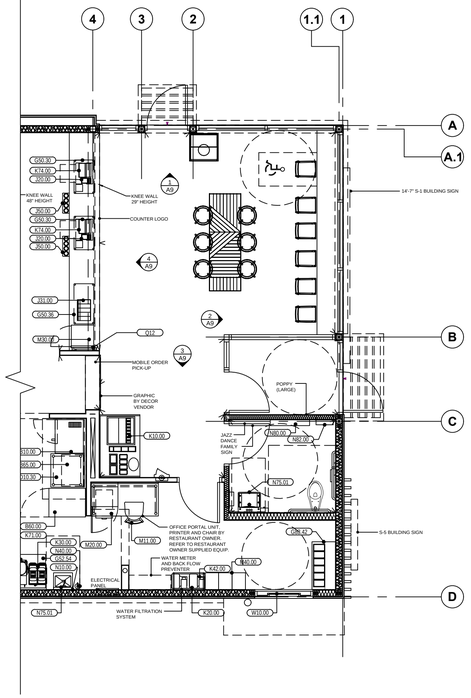
2 / A9 **PUBLIC AREA**
SCALE: 1/4" = 1'-0"



3 / A9 **PUBLIC AREA**
SCALE: 1/4" = 1'-0"



4 / A9 **PUBLIC AREA**
SCALE: 1/4" = 1'-0"



ISSUE TABLE		
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REVISIONS		
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DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

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ARCHITRAVE GROUP PC Professional Corporation 526565 RED BANK, NEW JERSEY

Project

LOUISIANA 19 72 KITCHEN
popeyes

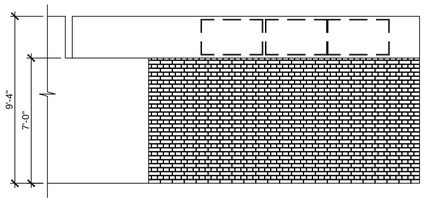
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

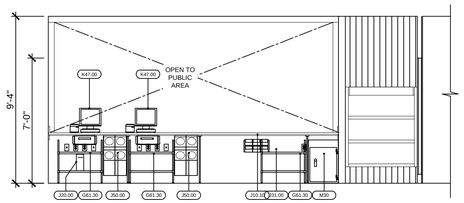
Drawing Title
INTERIOR ELEVATIONS

Drawn	Checked
JS	JS
Scale	**Date**
AS NOTED	8/11/23
Project No.	**Drawing No.**
G23-29	A9

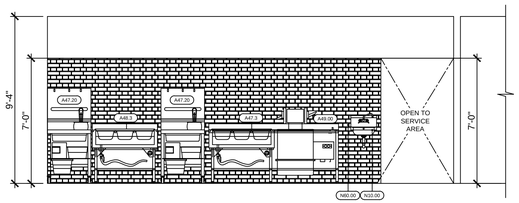
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



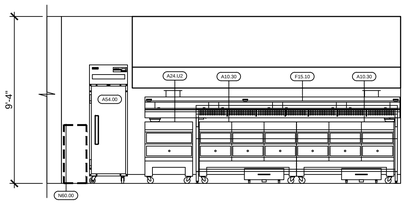
1 A9.1 MENU BOARD
SCALE: 1/4" = 1'-0"



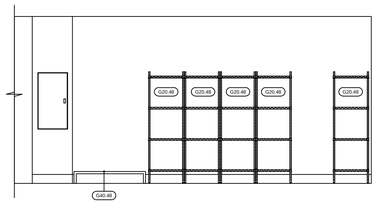
2 A9.1 PSO AREA
SCALE: 1/4" = 1'-0"



3 A9.1 BATTER
SCALE: 1/4" = 1'-0"



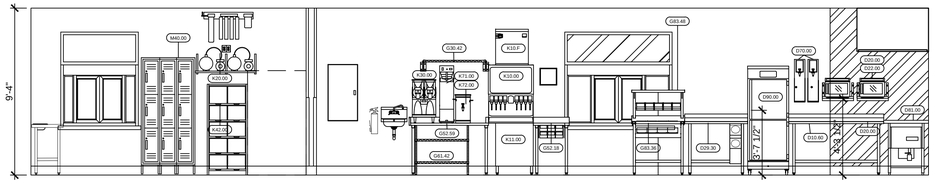
4 A9.1 FRYER
SCALE: 1/4" = 1'-0"



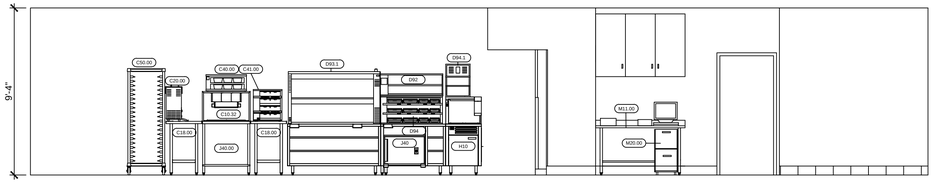
5 A9.1 STORAGE
SCALE: 1/4" = 1'-0"

6 A9.1 WET AREA
SCALE: 1/4" = 1'-0"

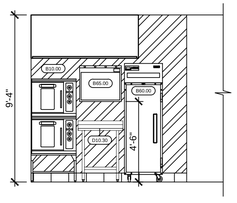
7 A9.1 REFRIGERATION
SCALE: 1/4" = 1'-0"



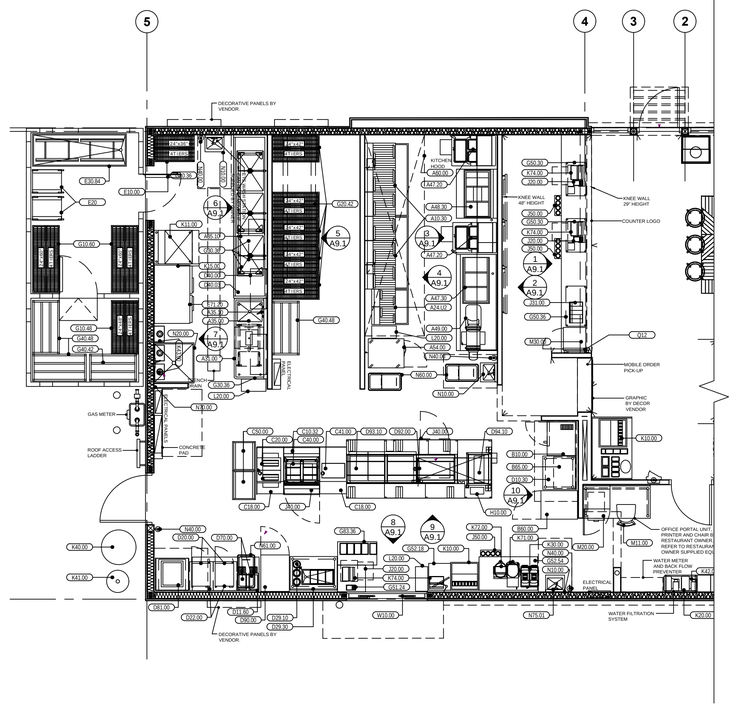
8 A9.1 PREP
SCALE: 1/4" = 1'-0"

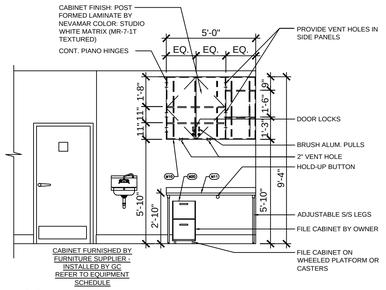


9 A9.1 PRODUCTION LINE
SCALE: 1/4" = 1'-0"



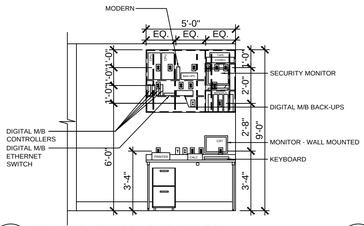
10 A9.1 BISCUITS
SCALE: 1/4" = 1'-0"





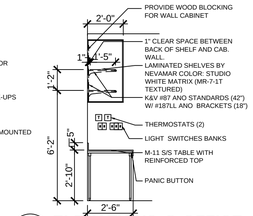
1 A9.2 ELEVATIONS @ OFFICE, CABINET

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



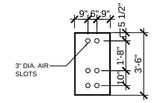
2 A9.2 ELEVATIONS @ OFFICE

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



3 A9.2 ELEVATIONS @ OFFICE

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

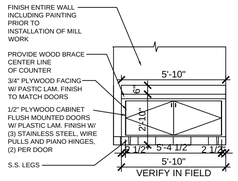


4 A9.2 PERFORATED SIDE PANELS

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

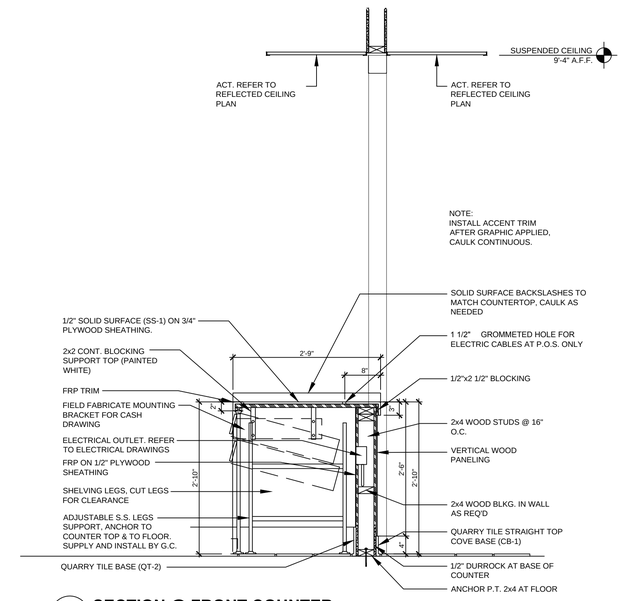
5 A9.2 SECTION @ MOP SINK

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



6 A9.2 SELF-SERVE COUNTER ELEVATIONS

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



7 A9.2 SECTION @ FRONT COUNTER

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

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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ARCHITRAVE GROUP PC Professional Company 526651 NEW YORK RED BANK, N.J.

Project

LOUISIANA 19 72 KITCHEN

popeyes

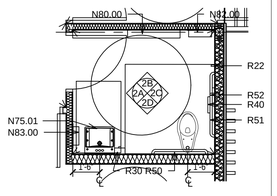
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

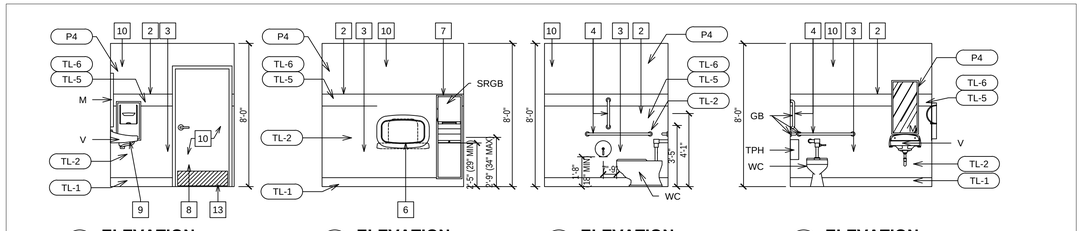
Drawing Title
INTERIOR ELEVATIONS

Drawn	Checked
JS	JS
Scale: AS NOTED	Date: 8/11/23
Project No.: G23-29	Drawing No.: A9.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 / A9.3 PLAN UNISEX WASHROOM
SCALE: 1/4" = 1'-0"



2A ELEVATION **2B ELEVATION** **2C ELEVATION** **2D ELEVATION**

2 / A9.3 ELEVATIONS UNISEX WASHROOM
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION NOTES

1. MIRROR IN PUBLIC WASHROOMS TO BE 1'-6" x 3'-0". MIRROR TO BE CENTERED ABOVE VANITIES & SURFACE MOUNTED ON WALL FINISH. SEE DRAWING A2 FOR SPECIFICATION BOTTOM AND ONE OF THE VERTICAL SIDE FRAMES TO BE PRE-DRILLED & SCREWED TO WALL. REMAINDER OF FRAMES AND MIRROR TO BE ADHERED W/ APPROVED MIRROR ADHESIVE OR SILICONE. REFER TO DETAIL 14/A9.3
2. WALL TILE FINISH TL-5 AND TL-6 - REFER TO FINISH SCHEDULE ON SHEET A10 FOR TYPE. GC TO BE SUPPLIED AND INSTALLED.
3. WALL TILE TL-2 - REFER TO FINISH SCHEDULE ON SHEET A10 FOR TYPE.
4. PROVIDE PLYWOOD BACKING IN BETWEEN STUDS TO ACCOMMODATE GRAB BARS. PROVIDE ADEQUATE SIZE. REFER TO DETAIL 12/A9.3.
5. N/A.
6. PROVIDE ADEQUATE PLYWOOD BACKING IN BETWEEN STUDS AT BABY CHANGE TABLE. REFER TO DETAIL 10/A9.3.
7. PROVIDE OPENING IN WALL TO ACCOMMODATE SEMI-RECESSED GARBAGE. REFER TO DETAIL 9/A9.3.
8. DOORS & FRAMES. REFER TO FINISH SCHEDULES ON SHEET A10 FOR FINISHES & A11 FOR TYPE.
9. VANITY - REFER TO DETAIL 13/A9.3.
10. PAINT FINISH - REFER TO TYPICAL WASHROOM ELEVATION ON SHEET A10 FOR TYPE
11. LAVATORY CARRIER - SEE PLUMBING SCHEDULE
12. PROVIDE & INSTALL SCHLUTER STRIP AT TILED CORNERS (INSIDE/ OUTSIDE). REFER TO SHEET A10 FOR SPECS.
13. G.C TO PROVIDE AND INSTALL KICK PLATE. REFER TO HARDWARE SCHEDULE ON SHEET A11.

SYMBOL LEGEND

1 NOTE REFERENCE REFER TO ELEVATION NOTES

WASHROOM ACCESSORIES

TPH	-TOILET PAPER HOLDER (R40), BOBRICK B-2890
GB	-GRAB BAR (R50), GAMCO 150-S x36" -GRAB BAR (R51), GAMCO 150-S x42" -GRAB BAR (R52), GAMCO 150-S x18"
M	-MIRROR (R20), CHANNEL FRAME 18"x36" - GAMCO C-18x36
SRGB	-SEMI-RECESSED GARBAGE BIN (N82) - BOBRICK B-3961
EHD	-ELECTRIC HAND DRYER (N83) - BRUSHED STAINLESS STEEL - XLERATOR XL-SB
BCT	-BABY CHANGE TABLE (N80), SURFACE MOUNT - KOALA KARE KB200-00
SD	-SOAP DISPENSER (R30), SURFACE MOUNT - BOBRICK B-4112
V	-VANITY
WC	-WATER CLOSET
CH	-COAT HOOK (R22), HEAVY-DUTY COAK HOOK BOBRICK B-4112
SND	-SANITARY NAPKIN DISPENSER (R60), SURFACE MOUNT BOBRICK B-270

NOTES

1. REFER TO TYPICAL ACCESSORIES DETAILS FOR MOUNTING HEIGHTS AND OTHER SPECIFIC DIMENSIONS.
2. REFER TO TILE PLAN AND FINISHES SCHEDULE ON SHEET A10 FOR FINISHES.
3. G.C SHALL PROVIDE ADDITIONAL SOLID WOOD BLOCKING IN WALL AS NEEDED FOR PROPER INSTALLATION AND STRUCTURAL SUPPORT OF ACCESSORY ITEMS.
4. VERIFY ALL PAPER & SOAP PRODUCTS WITH VENDOR.
5. THE G.C. SHALL VERIFY WITH THE OWNER THAT THE PAPER AND SOAP SUPPLIER IS AVAILABLE FOR ALL REPLENISHMENT PRIOR TO HEALTH INSPECTION

3 / A9.3 N/A
SCALE: NONE

4 / A9.3 N/A
SCALE: NONE

5 / A9.3 N/A.

6 / A9.3 N/A.

7 / A9.3 N/A

8 / A9.3 ACCESSIBILITY SIGNAGE.
SCALE: 1" = 1'-0"

9 / A9.3 DETAIL @ SEMI-RECESSED GARBAGE
SCALE: 1" = 1'-0"

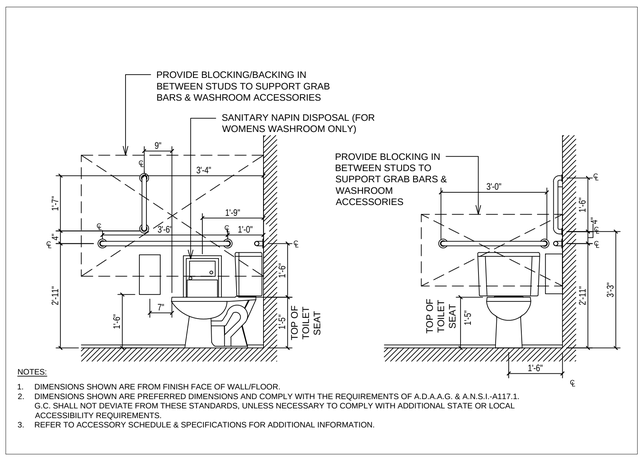
10 / A9.3 DETAIL @ BABY CHANGE TABLE
SCALE: 1" = 1'-0"

11 / A9.3 DETAIL @ HAND DRYER
SCALE: 1" = 1'-0"

14 / A9.3 MIRROR AND SOAP DISPENSER DETAIL
SCALE: 1" = 1'-0"

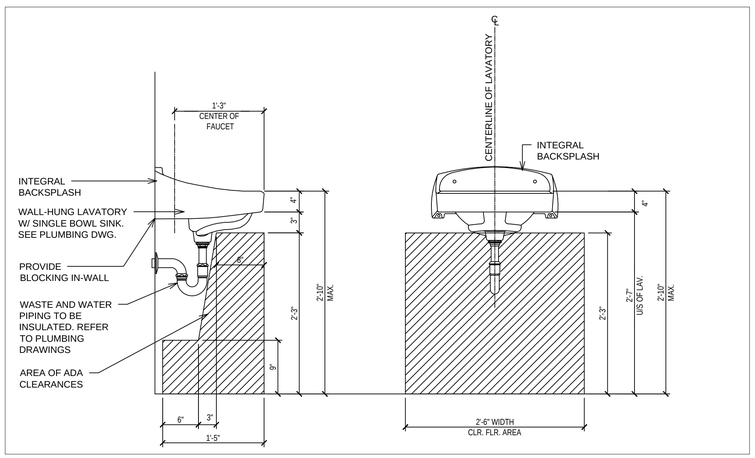
NOTES

1. **DIMENSIONS SHOWN ARE FROM FINISH FACE OF WALL/FLOOR.**
2. **DIMENSION SHOWN ARE PREFERRED DIMENSIONS AND COMPLY WITH THE REQUIREMENTS OF A.D.A.A.G AND A.N.S.I -A117.1 G.C SHALL NOT DEVIATE FROM THESE STANDARDS UNLESS NECESSARY TO COMPLY WITH ADDITIONAL STATE OR LOCAL ACCESSIBILITY REQUIREMENTS.**
3. **REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION**
4. **G.C TO PROVIDE CLEAR CAULKING AT ALL WASHROOM FIXTURES AND TILE INTERSECTIONS.**

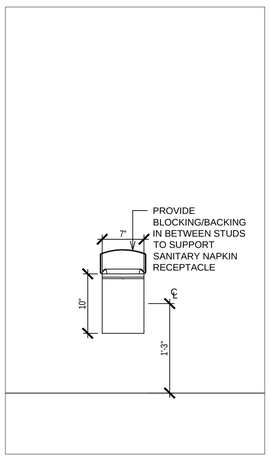


NOTES:
1. DIMENSIONS SHOWN ARE FROM FINISH FACE OF WALL/FLOOR.
2. DIMENSIONS SHOWN ARE PREFERRED DIMENSIONS AND COMPLY WITH THE REQUIREMENTS OF A.D.A.A.G. & A.N.S.I.-A117.1. G.C. SHALL NOT DEVIATE FROM THESE STANDARDS, UNLESS NECESSARY TO COMPLY WITH ADDITIONAL STATE OR LOCAL ACCESSIBILITY REQUIREMENTS.
3. REFER TO ACCESSORY SCHEDULE & SPECIFICATIONS FOR ADDITIONAL INFORMATION.

12 / A9.3 DETAIL @ GRAB BARS
SCALE: 1/2" = 1'-0"



13 / A9.3 DETAIL @ VANITY
SCALE: 1" = 1'-0"



11 / A9.3 DETAIL @ SANITARY NAPKIN RECEPTACLE
SCALE: 1" = 1'-0"

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
4	7/25/23	VE COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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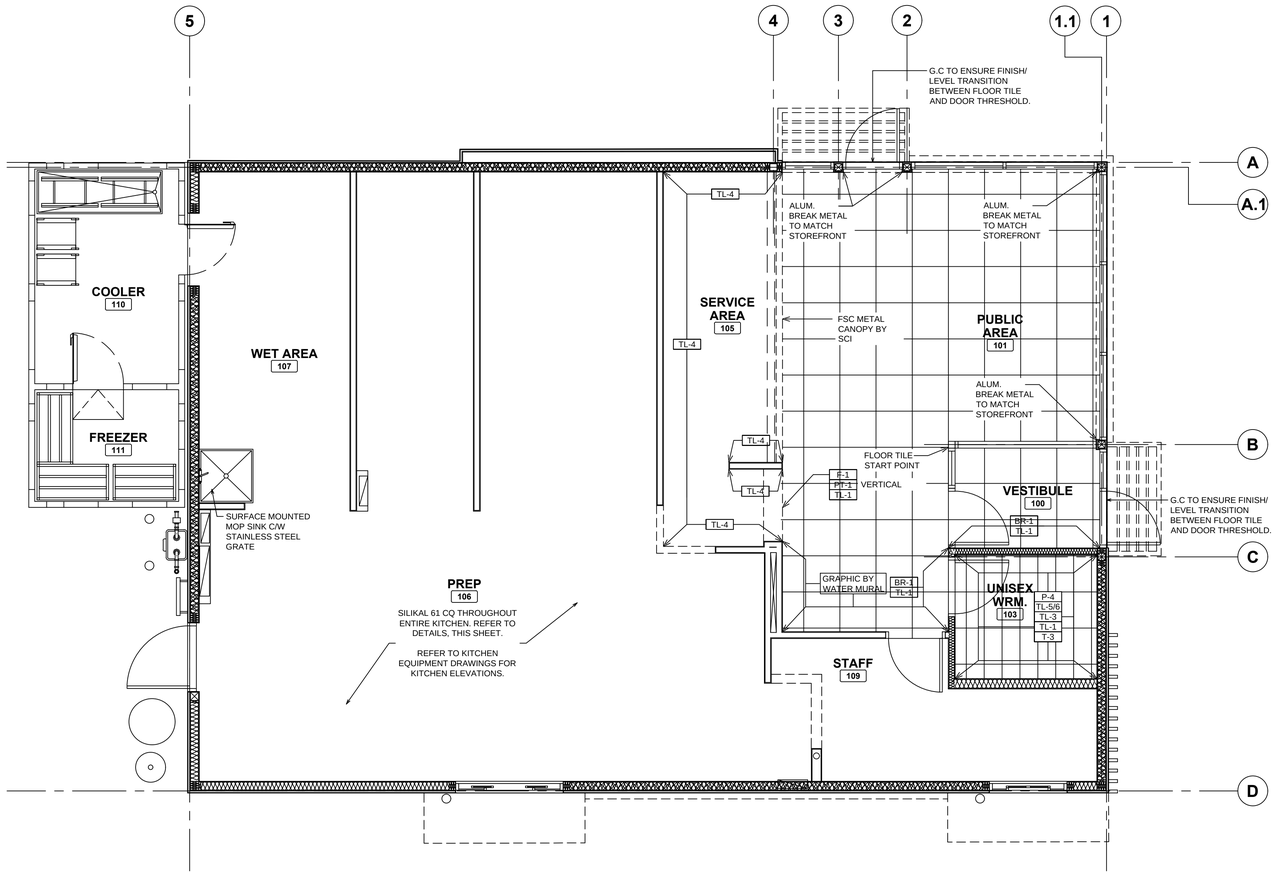
VA 015922 NC 12260NCF 52565

Project
LOUISIANA KITCHEN 19 72
popeyes

Store Type	US 2112 PROTOTYPE 2112-21
Location	PROTOTYPE 2112 (U.S.) 503 W. 3RD STREET PEMBROKE, NORTH CAROLINA
Drawing Title	WASHROOM DETAILS
Drawn	JS
Checked	JS
Scale	AS NOTED
Date	8/11/23
Project No.	G23-29
Drawing No.	A9.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 A10 **TILE PLAN**
SCALE: 1/4"=1'-0"

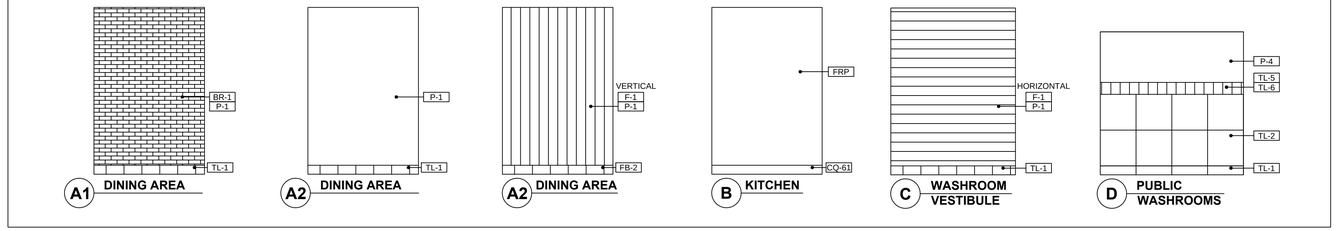
ROOM FINISH SCHEDULE

● SEE INTERIOR ELEVATIONS FOR LOCATION AND TYPE OF INTERIOR FINISHES.

ROOM		FLOORS						WALLS														CEILINGS				
		TILE			BASE																					
NO.	NAME	T-2	T-3	CQ-61	TL-1	CQ-61		BR-1	PT-1	PT-2	PT-3	F-1	TL-1	TL-2	TL-3	TL-4	TL-5	TL-6	P-1	P-4	WD-AC	FRP	P-1	ACT-1G	ACT-2G	HEIGHT
100	VESTIBULE	●			●								●										●			9'-4"
101	PUBLIC AREA	●			●			●	●				●											●		9'-4"
103	UNISEX WASHROOM		●		●								●	●			●	●		●			●			8'-0"
105	SERVICE AREA			●			●									●							●			9'-4"
106	PREP			●			●															●			●	9'-4"
107	WET AREA			●			●															●			●	9'-4"
109	STAFF			●			●															●			●	9'-4"
110	COOLER			●			●																			

NOTES

1. GENERAL CONTRACTOR TO PROVIDE MINIMUM 1 CASE OF EACH SET OF FLOOR TILES, WALL TILES & CEILING TILES AND 1 GALLON OF EACH PAINT COLOUR FOR FUTURE USE. THESE MATERIALS ARE TO BE LEFT ON SITE WITH THE RESTAURANT OWNER.
2. PROVIDE & INSTALL SCHLUTER STRIP (SHL-2) AT OUTSIDE / WALL TILE CORNERS WITHIN SERVICE AREA.
3. PROVIDE & INSTALL SCHLUTER STRIP (SHL-3) AT ALL FLOOR TILE TRANSITION THROUGH OUT THE ENTIRE STORE. REFER TO FINISHING SCHEDULE.
4. PROVIDE & INSTALL SCHLUTER-DILEX-KSN AT LOCATION OF FLOOR TILE AT DELIVERY DOOR. REFER TO POPEYES MASTER SCHEDULE.
5. GENERAL CONTRACTOR TO INSTALL BASE TILE FOR ALL FIXED BOOTH SEATING. G.C TO USE LATICRETE - LATAPOXY 300 ADHESIVE TO ADHERE BASE TILE TO BASE BOX BOOTH SEATING AND FOR USE WITH BASE TILE ON FRONT COUNTER. CONTACT: 1-800-243-4788 EXT. 235. WEBSITE: WWW.LATICRETE.COM
6. COVE BASE TILES FOR MILLWORK CABINETS TO BE INSTALLED BY MILLWORK VENDOR.
7. G.C. TO SEAL ALL MILLWORK / MILLWORK AND GWB / MILLWORK JOINTS WITH CLEAR SILICONE CAULKING AFTER COMPLETION OF PAINTING, WAINSCOTING AND FINAL CLEANING.
8. ALL BUTT JOINTS IN THE MILLWORK (VERTICAL AND HORIZONTAL) WILL BE CAULKED WILL CLEAR SILICONE CAULKING BY MILLWORK COMPANY.



2 A10 **TYPICAL INTERIOR ELEVATIONS**
SCALE: 1/4"=1'-0"

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
4	7/25/23	VE COMMENTS

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JOSE C. SANTOS REGISTERED ARCHITECT 12260 STATE OF NEW JERSEY
ARCHITRAVE GROUP PC Professional Corporation 52665 STATE OF NEW JERSEY RED BANK, N.J.

Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
TILE PLAN AND FINISHING SCHEDULE

Drawn	Checked
JS	JS
Scale	**Date**
1/4"=1'-0"	8/11/23
Project No.	**Drawing No.**
G23-29	A10

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

FINISHES

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
EXTERIOR									
EP-1	Exterior Wood Siding	Front Facade Exterior Walls	Nichiha Fiber Cement	Vintage Wood ABP 3030	Cedar	17-7/8" H x 119-5/16" L		Nola Makers	Customer Service (c) 770.962.6468 projects@nichiha.com
BRICK									
EB-1									
EB-1	Brick (Clay System)	Front of Building	Nichiha Fiber Cement	Vintage Brick EDH35M-WHITE	Painted White	7 3/8" x 2 1/2" x 3/4"		Nola Makers	Customer Service (c) 770.962.6468 projects@nichiha.com
EB-2									
NOTE:	Reference image for mortar spacing for brick installation.	Grout product selection to be determined by GC for proper application of material.	Grout color selection to be similar to Laticrete 34 Natural Gray						
EB-2	Brick (Clay System)	Accent Tower Brick	Nichiha Fiber Cement	Vintage Brick	Alexandria Buff	7 3/8" x 2 1/2" x 3/4"		Nola Makers	Customer Service (c) 770.962.6468 projects@nichiha.com
EB-2	Thin Brick	Accent Tower Brick	Creative Materials Corporation	Thin Brick	Flagstaff	8-1/8" x 2-1/16" x 3/8"		Nola Makers	Creative Materials Corporation o/ 1-800-237-2961 Ext. 1797 Purposebig@creativematerialscorp.com
EB-2	Face Brick	Accent Tower Brick	Glen Gery	Cherry Creek Williamsburg	Red	8-5/8" x 2-13/16" x 3-1/4"		Nola Makers	
EB-2	Thin Brick	Accent Tower Brick	Design and Direct Source	Sand Urban Series	Flagstaff	2" x 8"		Nola Makers	
PAINT									
EP-1									
EP-1	Exterior Paint	Main Wall Surface, Rear Door	Benjamin Moore	Ultra Spec Ext Low Lustre (4600)	OC-125 Moonlight White			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
EP-1	Exterior Paint	Main Wall Surface, Rear Door	Sherwin Williams	A-100 Exterior Latex Satin	SW 7551 Greek Villa			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
EP-2									
EP-2	Exterior Paint	Brick Tower Parapet	Benjamin Moore	Ultra Spec Ext Low Lustre (4600)	2100-20 Root Beer Candy			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
EP-2	Exterior Paint	Brick Tower Parapet	Sherwin Williams	A-100 Exterior Latex Satin	SW-6062 Rugged Brown			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
EP-3									
EP-3	Exterior Paint	Dumpster Walls	Benjamin Moore	Ultra Spec Ext Low Lustre (4600)	HC-175 Stonington Gray			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
EP-3	Exterior Paint	Dumpster Walls	Sherwin Williams	A-100 Exterior Latex Satin	SW-7607 Tricorn			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
EP-4									
EP-4	Metal Paint	Bollards	Benjamin Moore	Corotech High Solids Rapid Dry Enamel	Safety Yellow			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
EP-4	Metal Paint	Bollards	Sherwin Williams	Industrial Enamel HS	Safety Yellow			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
EP-5									
EP-5	Metal Paint	Dumpster Gates and Pylon Pole	Benjamin Moore	Corotech High Solids Rapid Dry Enamel	Factory Finish Black			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
EP-5	Metal Paint	Dumpster Gates and Pylon Pole	Sherwin Williams	Industrial Enamel HS	SW-6991 Black Magic			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
EP-6									

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
EP-6	Anti Graffiti Coat	Exterior Walls	Benjamin Moore	Aromatic Acrylic Urethane - Gloss	YS50-00 Clear			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
EP-6	Anti Graffiti Coat	Exterior Walls	Sherwin Williams	DI Water Based Urethane - Gloss	B65-150/B65V150			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
MISC									
C-1	Canopy - Metal	Drive Thru Window Canopy	Provided by Manufacturer	Provided by Manufacturer	Orange, Pantone #2350 C			Nola Makers	Provided by Manufacturer
C-2	Canopy - Metal	Building Canopies	Provided by Manufacturer	Provided by Manufacturer	Teal, Pantone #326 C			Nola Makers	Provided by Manufacturer
C-3	Canopy - Metal	Building Canopies	Provided by Manufacturer	Provided by Manufacturer	Black			Nola Makers	Provided by Manufacturer
S-1	Shutters - Poppy	Exterior Walls Rear of Building	Provided by Manufacturer	Provided by Manufacturer	Provided by Manufacturer			Nola Makers	Provided by Manufacturer
DR-1	Door	Main Entrance Doors	Provided by Manufacturer	Provided by Manufacturer	Orange, Pantone #2350 C			Nola Makers	Provided by Manufacturer
INTERIOR									
CEILING									
NOTE:	Armstrong products can now be								
ACT-1G	Acoustic Ceiling Tile	Dining Room	Armstrong	Ultima	Color: White Finish: Fine Texture Grid: 9/16" Beveled Tegular	24x48"		Nola Makers	Cheryl A. Smith (c) 502.619.6328 dsmith@armstrongceilings.com
ACT-2G	Acoustic Ceiling Tile	Back of House	GOUSS Interiors	Sheetrock Board Climatrac Vinyl	Color: 5070 White Finish: Smooth	24X48X5/8		Nola Makers	Cheryl A. Smith (c) 502.619.6328 dsmith@armstrongceilings.com
FLOORING									
TL-1									

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
TL-5	Tile	Restroom Floor Tile	Daltile		Color: Ash Grey, Grout: Mapei Iron #137	12X24		Nola Makers	Alexandra Stefan o/: 305.477.6216 C: 305.491.6626 E-Mail: Alexandra.stefan@daltile.com
TL-3	Tile	Restroom Floor Tile	Emser Tile	Louisiana	Color: Slate Elevate, Grout: Laticrete Dusty Grey	12X24		Nola Makers	Christina Dunbar / Sandra Torres Holland o/: 713-862-2411 projects@emser.com
TL-3	Tile	Restroom Floor Tile	Bedrosian Tile	Moderna	Color: Grey, Grout: Laticrete Dusty Grey	12X24		Nola Makers	Tamara Ramsey o/: 469-522-5733 projects@bedrosians.com
TL-4									
TL-4	Wall Tile	Front Service Counter Walls	Creative Materials Corporation	Subway Tile / Painted Brick	Color: Onyx - White Ice Finish: Matte Grout Color: Ultraceler Plus Ash #131	3"X12", Thickness: 6 mm		Nola Makers	Creative Materials Corporation o/ 1-800-237-2961 Ext. 1797 Purposebig@creativematerialscorp.com
TL-4	Wall Tile	Front Service Counter Walls	Daltile	National Account	Color: Color Wheel MIDA White Grout: Mapei Ash #131	3" x 12"		Nola Makers	Alexandra Stefan o/: 305.477.6216 C: 305.491.6626 E-Mail: Alexandra.stefan@daltile.com
TL-4	Wall Tile	Front Service Counter Walls	Emser Tile	Catch	Color Ice Grout: Laticrete Smoke Grey	3" x 12"		Nola Makers	Christina Dunbar / Sandra Torres Holland o/: 713-862-2411 projects@emser.com
TL-4	Wall Tile	Front Service Counter Walls	Bedrosian Tile	Trailblons	Color: White Grout: Laticrete Smoke Grey	3" x 12"		Nola Makers	Tamara Ramsey o/: 469-522-5733 projects@bedrosians.com
TL-6									
TL-6	Wall Tile	Restroom Accent Band - Back Splash	Creative Materials Corporation	Boon and Beaming	Color: White Finish: Matte Grout Color: Polywerk Custom Color	4.25"x8.5"		Nola Makers	Creative Materials Corporation o/ 1-800-237-2961 Ext. 1797 Purposebig@creativematerialscorp.com
TL-6	Wall Tile	Restroom Accent Band - Back Splash	Daltile		Color: Arctic White 0790 Finish: Matte Grout Color: Polywerk Custom Color	4x8		Nola Makers	Alexandra Stefan o/: 305.477.6216 C: 305.491.6626 E-Mail: Alexandra.stefan@daltile.com
TL-6	Wall Tile	Restroom Accent Band - Back Splash	Emser Tile	Select	Color: White Finish: Matte Grout Color: Polywerk Custom Color	4x8		Nola Makers	Christina Dunbar / Sandra Torres Holland o/: 713-862-2411 projects@emser.com
TL-6	Wall Tile	Restroom Accent Band - Back Splash	Bedrosian Tile					Nola Makers	Tamara Ramsey o/: 469-522-5733 projects@bedrosians.com
TL-6									

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
TL-6	Wall Tile	Restroom Accent Band - Text Letters	Creative Materials Corporation	Custom Peanut N Loafer Logo Tile Band	Color: White Finish: Matte Grout #Ad Letters To Match Color: BM OC-689 "Oceanic Teal"	4.25"x8.5"		Nola Makers	Creative Materials Corporation o/ 1-800-237-2961 Ext. 1797 Purposebig@creativematerialscorp.com
TL-6	Wall Tile	Restroom Accent Band - Text Letters	Daltile		Color: White Finish: Matte Grout #Ad Letters To Match Color: BM OC-689 "Oceanic Teal"	4x8		Nola Makers	Alexandra Stefan o/: 305.477.6216 C: 305.491.6626 E-Mail: Alexandra.stefan@daltile.com
TL-6	Wall Tile	Restroom Accent Band - Text Letters	Emser Tile	Select	Color: White Finish: Matte Grout #Ad Letters To Match Color: BM OC-689 "Oceanic Teal"	4x8		Nola Makers	Christina Dunbar / Sandra Torres Holland o/: 713-862-2411 projects@emser.com
TL-6	Wall Tile	Restroom Accent Band - Text Letters	Bedrosian Tile					Nola Makers	Tamara Ramsey o/: 469-522-5733 projects@bedrosians.com
QT-1									
QT-1	Alternate: Quarry Tile	Back of House Floors	Creative Materials Corporation	Quarry Tile	Color: Grey Finish: Smooth To Be Used With Matching Epoxy Grout	6x6		Nola Makers	Creative Materials Corporation o/ 1-800-237-2961 Ext. 1797 Purposebig@creativematerialscorp.com
QT-1	Alternate: Quarry Tile	Back of House Floors	Daltile		Color: QT03 Ashen Gray	6x6		Nola Makers	Alexandra Stefan o/: 305.477.6216 C: 305.491.6626 E-Mail: Alexandra.stefan@daltile.com
QT-1	Alternate: Quarry Tile	Back of House Floors	Emser Tile	E-Quarry	Color: Smoke Finish: Smooth Grout: Laticrete Sandstone	6x6		Nola Makers	Christina Dunbar / Sandra Torres Holland o/: 713-862-2411 projects@emser.com
QT-1	Alternate: Quarry Tile	Back of House Floors	Bedrosian Tile	Mason	Color: Morning Fog Grout: Laticrete Sandstone	6x6		Nola Makers	Tamara Ramsey o/: 469-522-5733 projects@bedrosians.com
QT-2									
QT-2	Alternate: Quarry Tile Base	Back of House Base	Creative Materials Corporation	Quarry Tile	Color: Grey Finish: Smooth To Be Used With Matching Epoxy Grout	6x6		Nola Makers	Creative Materials Corporation o/ 1-800-237-2961 Ext. 1797 Purposebig@creativematerialscorp.com
QT-2	Alternate: Quarry Tile Base	Back of House Base	Daltile		Color: QT03 Ashen Gray	6x6		Nola Makers	Alexandra Stefan o/: 305.477.6216 C: 305.491.6626 E-Mail: Alexandra.stefan@daltile.com
QT-2	Alternate: Quarry Tile Base	Back of House Base	Emser Tile	E-Quarry	Color: Smoke Finish: Smooth Grout: Laticrete Sandstone	6x6		Nola Makers	Christina Dunbar / Sandra Torres Holland o/: 713-862-2411 projects@emser.com
QT-2	Alternate: Quarry Tile Base	Back of House Base	Bedrosian Tile	Mason	Color: Morning Fog Grout: Laticrete Sandstone	6x6		Nola Makers	Tamara Ramsey o/: 469-522-5733 projects@bedrosians.com
S-1	Primary Resin Flooring	Back of House Floors	Sikkal	Acrylic Resin	Color: Cyprio Blend #4 Weight Of Grind Stone			Nola Makers	Jeff Hoffman o/: 704.372.0707 c/: 704.577.1107 mbohma@sikkamerica.com
BRICK									
BR-1									

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
BR-1	Brick (Clay System)	Dining Room Accent Walls	Nichiha Fiber Cement	Vintage Brick EDH35M-WHITE	Painted White	7 3/8" x 2 1/2" x 3/4"		Nola Makers	Customer Service (c) 770.962.6468 projects@nichiha.com
PAINT									
PT-1									
PT-1	Interior Paint	Interior Walls, Beadboard, Brick Walls And Soffits/Ceiling	Benjamin Moore	Ultra Spec 500 Semi Gloss	OC-68B Distant Gray			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
PT-1	Interior Paint	Interior Walls, Beadboard, Brick Walls And Soffits/Ceiling	Sherwin Williams	Promar 200 Zero VOC Semi Gloss	SW-7551 Greek Villa			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
PT-2									
PT-2	Metal Paint	Main Entrance Doors - Interior Frame	Benjamin Moore	Corotech High Solids Rapid Dry Enamel	2133-20 Black Jack			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
PT-2	Metal Paint	Main Entrance Doors - Interior Frame	Sherwin Williams	Industrial Enamel HS	SW-6991 Black Magic			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
PT-3									
PT-3	Interior Paint	Orange Brick Accent Wall	Benjamin Moore	Ultra Spec 500 Semi Gloss	091 Tangerine Melt			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
PT-3	Interior Paint	Orange Brick Accent Wall	Sherwin Williams	Promar 200 Zero VOC Semi Gloss	SW-6886 Invigorate			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
PT-4									
PT-4	Interior Paint	Restroom Walls	Benjamin Moore	Ultra Spec 500 Semi Gloss	OC-489 Oceanic Teal			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
PT-4	Interior Paint	Restroom Walls	Sherwin Williams	Promar 200 Zero VOC Semi Gloss	SW-6375 Holiday Turquoise			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
PT-5									
PT-5	Interior Paint	Restroom Door Frame	Benjamin Moore	Ultra Spec 500 Semi Gloss	1127 Sedona Brown			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
PT-5	Interior Paint	Restroom Door Frame	Sherwin Williams	Promar 200 Zero VOC Semi Gloss	SW-6103 Tea Chest			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
PT-6									
PT-6	Interior Paint	Interior Walnscot (VE)	Benjamin Moore	Ultra Spec 500 Semi Gloss	AF-685 Thunder			Nola Makers	Rodger Lippman o/: 866.783.0236 rodger.lippman@benjaminmoore.com
PT-6	Interior Paint	Interior Walnscot (VE)	Sherwin Williams	Promar 200 Zero VOC Semi Gloss	SW-7019 Mindful Gray			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
MISC									
P-1	Beadboard	Restroom Vestibule Accent Walls	GC	Beadboard Paneling	Painted PT-1	4" - Channel Bead 1/8" X 1/8"		Nola Makers	GC

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
P-1	Beadboard	Restroom Vestibule Accent Walls	Nichiha Fiber Cement	Latura 6 Groove	White			Nola Makers	Customer Service (c) 770.962.6468 projects@nichiha.com
WT-1	Wall Tile	Dining Room Accent Walls	Creative Materials Corporation	Mohawk	Color: Walnut Finish: Natural	6"X40", 9MM		Nola Makers	Creative Materials Corporation o/ 1-800-237-2961 Ext. 1797 Purposebig@creativematerialscorp.com
L-1									
L-1	Restroom Door Faces	Interior Door Laminate	GC	Laminate	Mocha Modern Cherry - M46EX1			Nola Makers	GC
L-1	Restroom Door Faces	Interior Door Laminate	Sherwin Williams	Stain Mirwax	439 Walnut			Nola Makers	Glenn Ramder o/: 864.627.1217 glenn.j.ramder@sherwin.com
SOLID SURFACES									
SS-1	Solid Surface	Front Service Counter Top	Provided by Decor Vendor	H-MACS	05SK Urban Concrete			Nola Makers	Decor Vendor
SS-2	Solid Surface	Front of House Window Sills	GC	H-MACS	05SK Urban Concrete			Nola Makers	GC
W-1	FRP Sheet	Back of House Walls	Marlite	FRP Sheet	Color: S 105 SUCE WHITE U 3 WSN LIGHT GREY Finish: SMOOTH			Nola Makers	

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
4	7/25/23	VE COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project

LOUISIANA KITCHEN 1972

POPEYES

Store Type	
US 2112 PROTOTYPE 2112-21	

Location

PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title

FINISHING SCHEDULE

Drawn	Checked
JS	JS
Scale	**Date**
1/4"=1'-0"	8/11/23
Project No.	**Drawing No.**
G23-29	A10.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

DOOR AND FRAME SCHEDULE

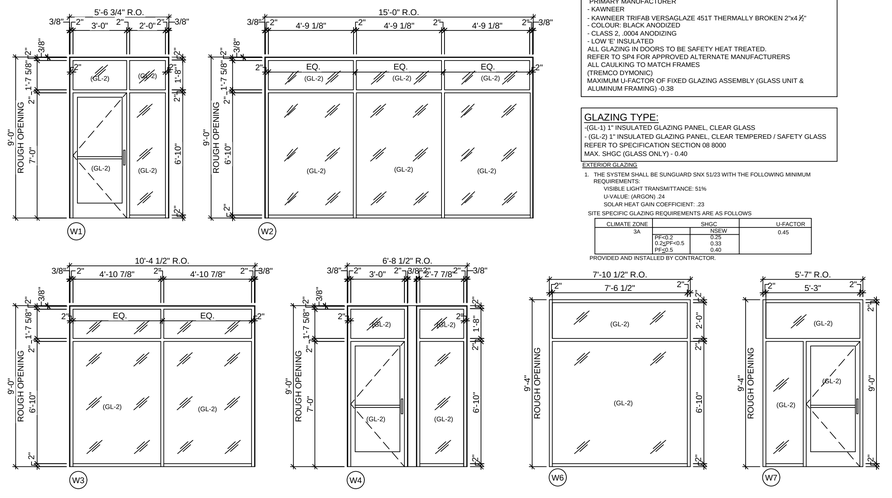
DOORS						FRAMES			HARDWARE	REMARKS
NO.	SIZE	R.O SIZE	TYPE	MAT.	FIN.	TYPE	MAT.	FIN.	SET NO.	
101	3'-0" x 7'-0" x 1-3/4"	--	A	AL	POWDER COATED BLACK	F1	AL	POWDER COATED BLACK	02	HARDWARE SET BY STOREFRONT COMPANY.(STORE FRONT COMPANY TO PROVIDE AND INSTALL THE PADDLES / LEVERS AND ENSURE NO THUMB TURNS TO BE PROVIDED). ARCHITECT TO REVIEW SHOP DRAWINGS FOR HARDWARE INSTALLED AT FRONT ENTRANCE DOORS AND ENSURE ALL HARDWARE IS ADA COMPLIANT.
101a	3'-0" x 7'-0" x 1-3/4"	--	A	AL	POWDER COATED BLACK	F1	AL	POWDER COATED BLACK	02	
101b	3'-0" x 7'-0" x 1-3/4"	--	A	AL	POWDER COATED BLACK	F1	AL	POWDER COATED BLACK	02	
102	N/A									
103	3'-0" x 6'-8" x 1-3/4"	DOOR WIDTH + 1-1/4" x DOOR HEIGHT + 5/8"	D	HM	--	F2	HM KNOCKDOWN	--	03	UNDERCUT DOOR 5/8". DOORS / FRAMES TO BE PAINTED AS PER POPEYES DECOR PACKAGE. TRANSITION TO OCCUR AT DOOR JAMB.
104	N/A									
105	3'-4" x 6'-8" x 1-3/4"	DOOR WIDTH + 1-1/4" x DOOR HEIGHT + 5/8"	C	HM	--	-	--	--	04	FRAMELESS DOOR.
106	3'-6" x 7'-0" x 1-3/4"	DOOR WIDTH + 1-1/4" x DOOR HEIGHT + 5/8"	B	HM/N	--	F2	HM/N	--	01	16 GA. GALVANIZED LOCKNET SECURITY DOOR.

ABBREVIATIONS

AL	ALUMINUM	HM	HOLLOW METAL	PLY	PLYWOOD	P.LAM	PLASTIC LAMINATE
GL	GLASS	HMIN	HOLLOW METAL INSULATED	PM	PREFINISHED METAL	MILLW'K	MILLWORK

WD WOOD PROVIDED BY DOOR MANUFACTURER

EXTERIOR WINDOW SCHEDULE



WINDOW TYPE
PRIMARY MANUFACTURER
- KAWNEER
- KAWNEER TRIFAB VERSAGLAZE 451T THERMALLY BROKEN 2"x4½"
- COLOUR: BLACK ANODIZED
- CLASS 2, .0004 ANODIZING
- LOW E' INSULATED
ALL GLAZING IN DOORS TO BE SAFETY HEAT TREATED.
REFER TO SP4 FOR APPROVED ALTERNATE MANUFACTURERS
ALL CAULKING TO MATCH FRAMES
(TREMCO DYMONIC)
MAXIMUM U-FACTOR OF FIXED GLAZING ASSEMBLY (GLASS UNIT & ALUMINUM FRAMING) -0.38

GLAZING TYPE:
-(GL-1) 1" INSULATED GLAZING PANEL, CLEAR GLASS
- (GL-2) 1" INSULATED GLAZING PANEL, CLEAR TEMPERED / SAFETY GLASS
REFER TO SPECIFICATION SECTION 08 8000
MAX. SHGC (GLASS ONLY) - 0.40

EXTERIOR GLAZING
1. THE SYSTEM SHALL BE SUNGUARD SNX 51/23 WITH THE FOLLOWING MINIMUM REQUIREMENTS:
VISIBLE LIGHT TRANSMITTANCE: 51%
U-VALUE: (ARGON) .24
SOLAR HEAT GAIN COEFFICIENT: .23
SITE SPECIFIC GLAZING REQUIREMENTS ARE AS FOLLOWS

CLIMATE ZONE	SHGC		U-FACTOR
	PF<0.2	NGEW	
3A	PF=0.2	0.40	0.45
	0.2≤PF<0.5	0.33	
	PF≥0.5	0.40	

PROVIDED AND INSTALLED BY CONTRACTOR.

DOOR HARDWARE SCHEDULE

HARDWARE SET NO. 1: (LOCKNET SERIES DOOR PACKAGE)

DOOR FRAME & HARDWARE INCLUDING ONE- WAY VISION PANEL W/ FLAP, CONTINUOUS HINGE, HEAVY DUTY CLOSER AND PANIC HARDWARE ORDERED THROUGH
LOCKNET (800) 887-4307
1 EA. 3'-6" X 7'-0" X 1.75" X 16 GA. X G60 GALVANIZED LOCKNET SECURITY DOOR
1 EA. 3'-6" X 7'-0" X (5-7/8" OR 6-3/4") JAMB DEPTH X 14 GA. X G60 GALVANIZED X WELDED IN PLACE EOA X 1/4" X 2-1/2" HR PLATE SPREADER BAR X 4-SIDED WELDED DOOR FRAME X FACTORY FINISH PAINTED
8 EA. 3/4" COVER PLUGS (BLACK)
1 EA. AIR LOUVER VLF-IG-PVC-1/2" LEXAN - 9" X 9" GALVANIZED SECURITY VISION
1 EA. PEMKO CDHFM82SLF-HD FULL MORTISE CONT. GEARED ALUM. HINGE X 628
1 EA. SECURITY LATCH GUARD X FULL LENGTH X TORX SD/ST SMS X FACTORY FINISH
1 EA. ARROW 1250S X EO X AL EXIT DEVICE
1 EA. DORMA 8616 X DS X FCOV S SN1 X AL CLOSER
1 EA. ROCKWOOD 24" X 40" X .050 X US32D X SECURITY TORX SD/ST SMS ARMOR PLATE ON PUSH SIDE
1 EA. PEMKO 171A X 42" X DOUBLE NOTCH CUT ENDS X THRESHOLD
1 EA. PEMKO 346C X 46" AL OVERHEAD RAIN DRIP X SECURITY TORX SD/ST SMS
1 EA. PEMKO 221APK X 42" AL COMBINATION KICK PLAT & DOOR SHOE X TORX
1 SET. P8512 X CONT. PERIMETER WEATHER SEAL (BLACK)
1 EA. INSTALLATION KIT (PER LOCKNET)
1 EA. CARDBOARD PACKAGING (2 PIECE BOX)
1 EA. DELIVERED ON FULL LENGTH WOODEN PALLET

HARDWARE SET NO. 2: (BY YKK AP AMERICA INC.)

DOORS AND FRAMES

QTY	PART #	FINISH	MODEL	DESCRIPTION
1	49111DOR	YB5N	YKK AP #20D	3' x 7' O/P OFFSET PIVOTS, HBR RH
1	92115FTR	YB5N	2" x 4-1/2"	3' x 7' O/P, FRAME, W/TRANSOM, RH
1	49114DOP	YB5N	20D	6' x 7' O/P, OFFSET PIVOTS, HBR PR
1	92118FTP	YB5N	2" x 4-1/2"	6' x 7' O/P, FRAME, W/TRANSOM, PR
3	P61205	335		SM CLOSER W/BACK CHECK NHO PRES
3	H1104SD	335		PUSH/PULL 1" DIAM. TYPE SC (9" CTC)
3	H7107	YB5N	3-0	BOTTOM RAIL WEATHERSTRIP
3	SD101	YB5N		10" BOTTOM RAIL UP TO 3'
1	V50			DETEX PANIC HARDWARE W/ DOGGING FEATURE

STOCK LENGTHS

QTY	PART #	FINISH	LENGTH	DESCRIPTION
11	BE91503	YB5N	24-0	HEAD / JAMB / VERTICAL
3	BE91512	YB5N	24-0	SHALLOW POCKET FILLER
2	BE91506	YB5N	24-0	HORIZONTAL
2	BE91513	YB5N	24-0	4-1/2" SIDELITE BASE
4	E91015	YB5N	24-0	GLASS STOP
2	BE91510	YB5N	24-0	SILL FLASHING

ACCESSORIES

QTY	PART #	PKG	DESCRIPTION
1	E20020	50P/B	SETTING BLOCK
1	E20047	50P/B	WATER DEFLECTOR
1	E20154	50P/B	"W" SIDE BLOCK FOR DEEP POCKET
1	E10168	20P/B	END DAM
2	E20052	500P/B	GLAZING GASKET
2	PC1220	100P/B	#12 x 1-1/4" PHSMS TYPE AB
1	E11015	50P/B	SHEAR BLOCK
1	PC1028	100P/B	#10 x 1-3/4" PHSMS TYPE AB

HARDWARE SET NO. 3:

1-1/2 PR. HINGES	McKINNEY	BEARING HINGES,4-1/2" X 4-1/2" US26D
1 EA. LATCHSET W/LOCK	SCHLAGE	SATURN X US26D
1 EA. FLOOR STOP	BALDWIN	#4000 FLOOR MOUNT
1 EA. KICKPLATE	BURNS	8" X 30" X 8" 16GA. US628
1 EA. COAT HOOK	JACKNOB	#400 WITH RUBBER BUMPER
1 EA. CLOSER	LCN	1460 ALUMINUM CLOSER

FOLLOWING ITEMS PROVIDED & INSTALLED BY G.C.:

1 EA. SIGN	HANDICAP ACCESSIBILITY (ADA)
1 EA. SIGN	AS REQD: DOOR #103 "MEN" 7" X 2"
	DOOR #104 "WOMEN" 7" X 2"

HARDWARE SET NO. 4:

1-1/2 PR. HINGES	McKINNEY	BEARING HINGES,4-1/2" X 4-1/2" US26D
1 EA. KICKPLATE	BURNS	8" X 30" X 8" 16GA. US26D
1 EA. LATCHSET W/LOCK	SCHLAGE	SATURN X US26D
1 EA. 6"x6" VIEWING WINDOW		
1 EA. CLOSER	LCN	1460 ALUMINUM CLOSER

HARDWARE SET NO. 5:

1-1/2 PR. HINGES	McKINNEY	BEARING HINGES,4-1/2" X 4-1/2" US26D
1 EA. LATCHSET W/LOCK	SCHLAGE	SATURN X US26D
1 EA. CLOSER	LCN	1460 ALUMINUM CLOSER

HARDWARE SCHEDULE NOTES:

1. ALL HARDWARE IS NEW UNLESS OTHERWISE NOTED.
2. ALL DOOR LOCKSETS / LATCHES SHALL BE "LEVER TYPE" IN COMPLIANCE WITH A.D.A.A.G. SECTION 4.1.3.9).
3. ALL DOOR HANDLES, PULLS, LATCHES, LOCKS, AND/OR OTHER OPERATING DEVICES SHALL BE INSTALLED BETWEEN 34" MINIMUM AND 48" MAXIMUM ABOVE FINISHED FLOOR.
4. ALL DOOR THRESHOLDS SHALL BE IN 1/2" HIGH MAXIMUM.
5. ALL DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEAD EDGE (A.D.A.A.G. 4.13.10).

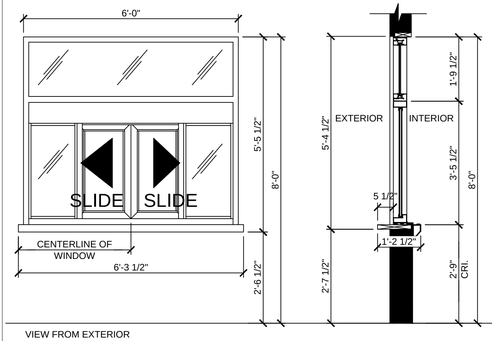
WINDOW SCHEDULE

MARK		CONST.	GLASS TYPE	HEAD HEIGHT	REMARKS
W1		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W2		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W3		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W4		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W5		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W6		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W7		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W8		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W9		ALUM	GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH

WINDOW SCHEDULE NOTES:

1. REFER TO WINDOW ELEVATIONS FOR SPECIFIC DIMENSIONS AND ADDITIONAL DETAIL INFORMATION.
2. WINDOW CONTRACTOR SHALL FIELD VERIFY ALL ROUGH OPENINGS FOR ALL WINDOWS PRIOR TO PREPARATION OF SHOP DRAWINGS.

DRIVE-THRU WINDOW SCHEDULE



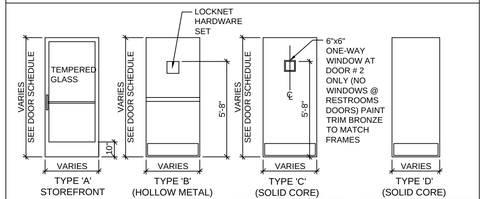
VIEW FROM EXTERIOR

W5 W6 **ELEVATION**
SCALE: 1/2" = 1'-0"

NOTE:
1. REFER TO SECTION 08 56 19 FOR SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. REFER TO ELECTRICAL DRAWINGS FOR DRIVE-THRU WINDOW REQUIREMENTS

DRIVE-THRU WINDOW:
QUICKSERV DT WINDOW MODEL BP-7241E BRONZE ANODIZED (CLASS 1, .7 MILS MINIMUM) ALUMINIUM

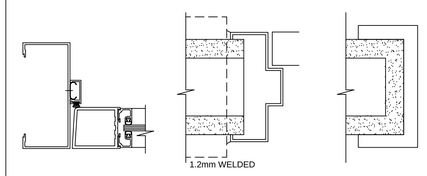
DOOR TYPES



GENERAL NOTE

ALL DOORS TO BE SUPPLIED BY G.C. UNLESS OTHERWISE NOTED.

DOOR FRAME TYPES



ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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VA 015922 NC 12560NCF 52665

Company Logo

JOSE C. SANTOS 12560 REGISTERED ARCHITECT NEW JERSEY TN NAME OF THE STATE RED BANK

ARCHITRAVE GROUP PC Professional Corporation 52665 NJ RED BANK

Project

Store Type
US 2112 PROTOTYPE
2112-21

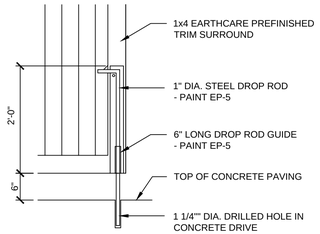
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
DOOR AND WINDOW SCHEDULES

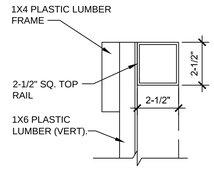
Drawn	Checked
JS	JS
Scale	**Date**
AS NOTED	8/11/23
Project No.	**Drawing No.**
G23-29	A11

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

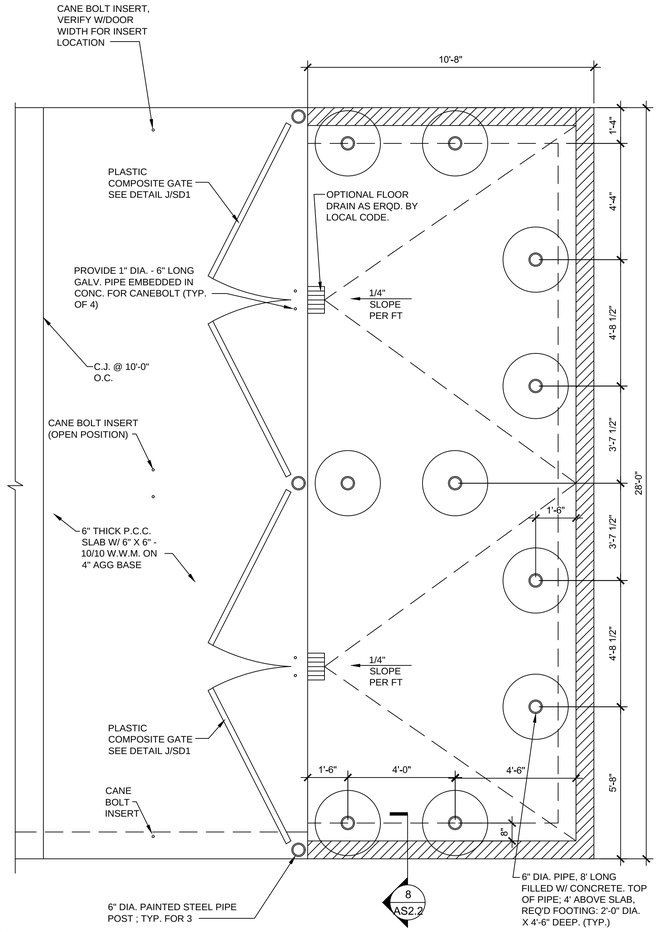
STORE NO. 14185



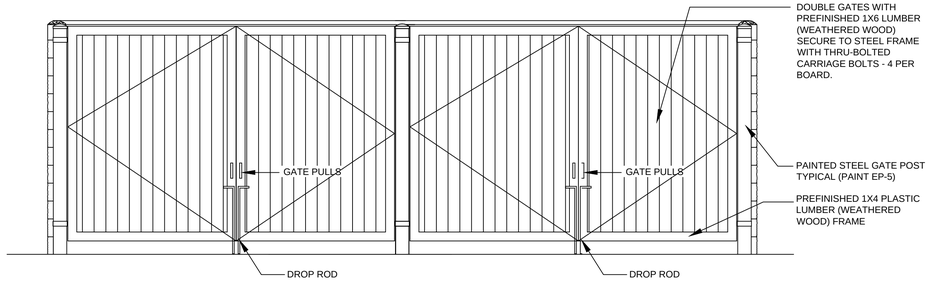
4 AS2.2 DROP ROD DETAIL
SCALE: 3/4" = 1'-0"



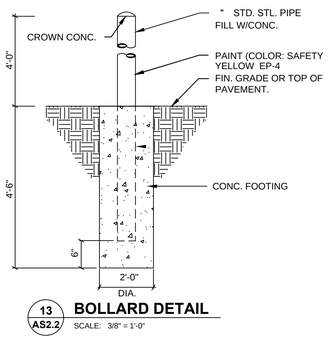
6 AS2.2 FLASHING DETAIL
SCALE: 3/8" = 1'-0"



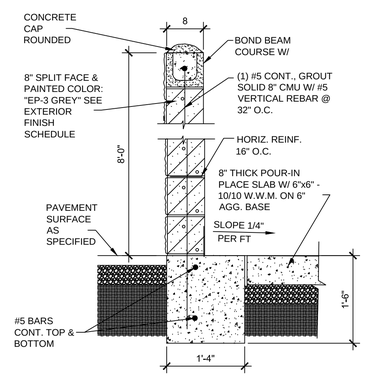
1 AS2.2 STANDARD DUMPSTER ENCLOSURE
SCALE: 3/8" = 1'-0"



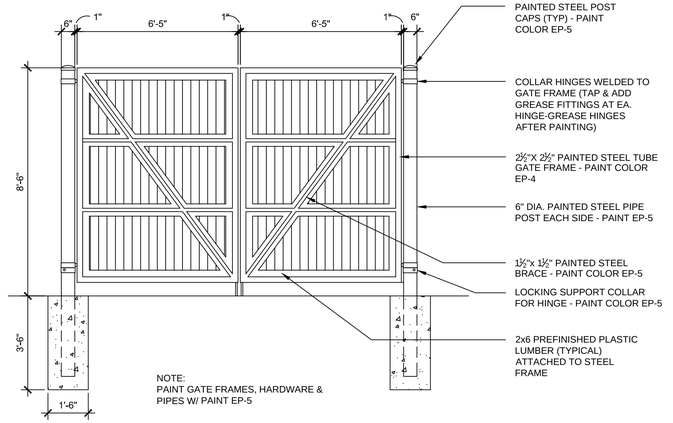
2 AS2.2 DUMPSTER ENCLOSURE GATE EXT. ELEV.
SCALE: 3/8" = 1'-0"



13 AS2.2 BOLLARD DETAIL
SCALE: 3/8" = 1'-0"



8 AS2.2 DUMPSTER WALL SECTION
SCALE: 3/8" = 1'-0"



3 AS2.2 DUMPSTER ENCLOSURE GATE INT. ELEV.
SCALE: 3/8" = 1'-0"

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JOSE C. SANTOS REGISTERED ARCHITECT 12260 TN

ARCHITRAVE GROUP PC Professional Corporation 32605 TN RED BANK

Project

LOUISIANA KITCHEN 19 72

popeyes

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
SITE DETAILS - TRASH ENCLOSURE CMU

Drawn	Checked
JS	JS
Scale	**Date**
AS NOTED	8/11/23
Project No.	**Drawing No.**
G23-29	AS2.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

PROJECT SPECIFICATIONS

DIVISION 01 - GENERAL REQUIREMENTS
GENERAL REQUIREMENTS SECTION 01 01 00

DIVISION 02 - EXISTING CONDITIONS (NOT INCLUDED)

DIVISION 03 - CONCRETE
REINFORCED CONCRETE SECTION 03 30 00

DIVISION 04 - MASONRY
UNIT MASONRY SECTION 04 20 00

DIVISION 05 - METALS
DECORATIVE METAL RAILING SECTION 05 73 00

DIVISION 06 - WOOD, PLASTICS AND COMPOSITES
ROUGH CARPENTRY SECTION 06 10 00
SHEATHING SECTION 06 16 00
SHOP FABRICATED WOOD TRUSSES SECTION 06 17 53
FINISH CARPENTRY SECTION 06 20 00

DIVISION 07 - THERMAL AND MOISTURE PROTECTION
THERMAL INSULATION SECTION 07 21 00
EXTERIOR INSULATION AND FINISH SYSTEMS SECTION 07 24 00
FLUID APPLIED MEMBRANE AIR BARRIER SECTION 07 27 26
EXTRUDED ALUMINUM SIDING SECTION 07 46 16
MEMBRANE ROOFING SECTION 07 50 00
SHEET METAL FLASHING AND TRIM SECTION 07 62 00
GUTTERS AND DOWNSPOUTS SECTION 07 71 23
FIRESTOPPING SECTION 07 84 00
JOINT SEALANTS SECTION 07 92 00

DIVISION 08 - OPENINGS
METAL DOORS AND FRAMES SECTION 08 11 00
ALUMINUM ENTRANCES AND STOREFRONT WINDOWS SECTION 08 41 13
PASS-THRU WINDOWS SECTION 08 56 19
DOOR HARDWARE SECTION 08 70 00
GLAZING SECTION 08 80 00

DIVISION 09 - FINISHES
GYPSUM BOARD ASSEMBLIES SECTION 09 21 00
CERAMIC TILING SECTION 09 30 13
ACOUSTIC TILE CEILINGS SECTION 09 51 23
FIBERGLASS REINFORCED PANELS SECTION 09 77 50
PAINTING SECTION 09 91 00

DIVISION 10 - SPECIALTIES
SIGNAGE SECTION 10 14 23
WALL PROTECTION SECTION 10 26 00
TOILET ACCESSORIES SECTION 10 28 00
FIRE PROTECTION SPECIALTIES SECTION 10 44 00

DIVISION 12 - WINDOW TREATMENTS
ROLL-DOWN BLINDS SECTION 12 21 23

DIVISION 22 - PLUMBING
SEE MECHANICAL DRAWINGS

DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING (HVAC)
SEE MECHANICAL DRAWINGS

DIVISION 26 - ELECTRICAL
SEE ELECTRICAL DRAWINGS

APPROVED SUPPLIERS LIST

BIDDING REQUIREMENTS; INSTRUCTIONS TO BIDDERS

EXAMINATION OF SITE:
ALL BIDDERS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE (PREMISES) AND ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT. FAILURE TO EXAMINE THE SITE WILL NOT RELIEVE THE SUCCESSFUL BIDDER FROM THE NECESSITY TO PROVIDE WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK WITHOUT ADDITIONAL COST TO THE OWNER.

EXPLANATION TO BIDDERS:
A. NO ORAL EXPLANATION IN REGARD TO THE MEANING OF THE DRAWINGS AND SPECIFICATIONS WILL BE MADE AND NO ORAL INSTRUCTIONS WILL BE GIVEN BEFORE THE AWARD OF THE CONTRACT.
DISCREPANCIES, OMISSIONS, OR DOUBTS AS TO MEANING OF THE DRAWINGS AND SPECIFICATIONS SHALL BE COMMUNICATED IN WRITING TO THE OWNER FOR INTERPRETATION.
IN THE EVENT OF UNRESOLVED DISCREPANCIES OR AMBIGUITY, ARCHITECT OF RECORD WILL BE THE FINAL JUDGE ON PLAN INTERPRETATION. BIDDERS SHOULD ACT PROMPTLY AND ALLOW SUFFICIENT TIME FOR A REPLY TO REACH THEM BEFORE THE SUBMISSION OF THEIR BIDS. ANY REVISION MADE WILL BE IN THE FORM OF AN ADDENDUM TO THE SPECIFICATIONS BEARING THE APPROVAL OF THE OWNER AND WILL BE FORWARDED TO ALL BIDDERS AND ITS RECEIPT BY THE BIDDER SHOULD BE ACKNOWLEDGED BY THE BIDDER BY HIS SIGNATURE AFFIXED THERETO AT THE TIME OF RECEIPT AND VERIFIED BY HIS ACKNOWLEDGMENT ON THE BID FORM.
B. EACH PROSPECTIVE BIDDER WILL BE FURNISHED BIDDING DOCUMENTS TO COMPLETE THEIR BID.

PREPARATION & SUBMISSION OF BIDS:
A. THE BIDDER IS REQUIRED TO BID ON ALL ALTERNATES AND/OR ALLOWANCES OR ON ALL ITEMS CALLED FOR IN THE BID FORM, EXCEPT WHEN ALTERNATES ARE CALLED FOR ON A TYPE OR METHOD OF CONSTRUCTION AS TO WHICH BIDDER DOES NOT DESIRE TO BID, HE MAY INSERT THE WORDS "NO BID" IN THE SPACE PROVIDED FOR PRICES ON SUCH ALTERNATE TYPE OR METHOD OF CONSTRUCTION.
B. BIDS SHALL BE SUBMITTED ON THE FORMS FURNISHED AND SHALL BE SIGNED IN INK. ERASURES OR OTHER CHANGES IN A BID MUST BE EXPLAINED OR NOTED OVER THE SIGNATURE OF THE BIDDER. BIDS CONTAINING ANY CONDITIONS, OMISSIONS, UNEXPLAINED ERASES OR ALTERNATES, OR ITEMS NOT CALLED FOR IN THE PROPOSAL, OR IRREGULARITIES OF ANY KIND, MAY BE REJECTED BY THE OWNER AS BEING INCOMPLETE.

BID ANALYSIS:
BIDS SHALL BE ACCOMPANIED BY ONE (1) SIGNED COPY OF POPEYE'S STANDARD "BID ANALYSIS" FORM. AS INDICATED ON THE FORM, INDIVIDUAL LINE ITEMS ARE TO BE SHOWN AT THE GENERAL CONTRACTOR'S COST WITH NO MARKUP FOR OVERHEAD OR PROFIT BY THE GENERAL CONTRACTOR. HOWEVER, EACH LINE ITEM SHALL INDICATE THE FULL VALUE OF SUBCONTRACTOR WORK INCLUDING SUBCONTRACTOR'S OVERHEAD AND PROFIT. SUPERVISION, OVERHEAD, AND PROFIT FOR THE GENERAL CONTRACTOR'S WORK SHALL BE SHOWN ON THE APPROPRIATE LINES.

AWARD OF CONTRACT:
THE OWNER RESERVES THE RIGHT TO DETERMINE WHAT ARE INFORMALITIES IN THE MAKING, RECEIVING, AND OPENING OF BIDS AND THE AWARDING OF CONTRACTS THEREON, AND THE FURTHER RIGHT TO WAIVE ANY ANY INFORMALITY WHEN SUCH WAIVER IS, IN THE DISCRETION OF THE OWNER, TO THE BEST INTEREST, ALSO. TO ACCEPT ANY ITEM IN THE BID UNLESS OTHERWISE SPECIFIED.

REJECTION OF BIDS:
THE OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.

STANDARD FORMS
1. AIA DOCUMENT A305 - CONTRACTORS QUALIFICATIONS STATEMENT.
2. AIA DOCUMENT G701 - CHANGE ORDER.
3. AIA DOCUMENT G702 - APPLICATION AND CERTIFICATE OF PAYMENT. THIS DOCUMENT SUMMARIZES THE CONTRACT AMOUNT, WORK COMPLETED, STORED MATERIALS, RETAINAGE, PREVIOUS CERTIFICATES OF PAYMENT, AND THE CURRENT AMOUNT DUE.
4. AIA DOCUMENT G703 - CONTINUATION SHEET (ONE (1) OR MORE SHEETS AS REQUIRED). THIS DOCUMENT DETAILS THE AMOUNTS SUMMARIZED ON DOCUMENTS G702. IT PROVIDES A PROJECT BREAKDOWN AND DISCLOSES THE NAME OF THE COMPANY PROVIDING LABOR AND MATERIALS. WHEN LABOR IS PART OF THE CONTRACTOR DIRECTLY TO INDIVIDUAL WORKERS, IT SHOULD BE IDENTIFIED AS "G.C. LABOR". THIS DOES NOT INCLUDE ANY LABOR PAID TO A THIRD PARTY. MATERIALS TAKEN FROM THE CONTRACTOR'S INVENTORY SHOULD BE LISTED AS "G.C. MATERIALS". THIS MAY NOT INCLUDE MATERIALS DELIVERED DIRECTLY TO THE JOB SITE OR IDENTIFIED IN ANY WAY BY THE SUPPLIER WITH AFCE. CONTRACTOR'S OVERHEAD AND PROFIT SHALL BE SHOWN AS A SEPARATE LINE ITEM. IF SUBCONTRACTOR AMOUNTS CHANGE FROM AMOUNTS SHOWN ON THE ORIGINAL PROJECT BREAKDOWN, THE CHANGES SHALL BE SHOWN ON THE PAYMENT REQUEST WITH A CORRESPONDING CHANGE TO THE CONTRACTOR'S OVERHEAD AND PROFIT LINE. IF A CHANGE ORDER IS INVOLVED, THE TOTAL CONTRACT AMOUNT SHALL REMAIN THE SAME.
5. CERTIFICATE OF SUBSTANTIAL COMPLETION. AIA DOCUMENT A704.
6. CERTIFICATE OF INSURANCE, AIA DOCUMENT G715.
7. AIA DOCUMENT G706 - CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS - IN THIS DOCUMENT, THE CONTRACTOR SWEARS THAT ALL SUBCONTRACTORS AND MATERIALMEN ARE DISCLOSED ON G703 AND THAT EACH HAS BEEN PAID.
8. AIA DOCUMENT G706A - CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS - IN THIS DOCUMENT, THE CONTRACTOR SWEARS THAT ALL SUBCONTRACTORS AND MATERIALMEN ARE LISTED ON G703 AND THAT WAIVERS OF LIENS, HIS OWN INCLUDED, ARE ATTACHED.
9. AIA DOCUMENT G805 - LIST OF SUBCONTRACTORS
10. AIA DOCUMENT G713 - CHANGE ORDER AUTHORIZATIONS.
11. CONSENT OF SURETY (SURETY COMPANY'S FORM).
12. PARTIAL WAIVER OF LIEN FORM - IN THIS FORM, THE CONTRACTOR, SUBCONTRACTORS AND MATERIALMEN WAIVE THEIR RIGHT TO FILE A LIEN FOR WORK PERFORMED TO DATE. THIS DOCUMENT IS ACCEPTABLE FOR INTERIM CERTIFICATES OF PAYMENT.
13. FINAL WAIVER OF LIEN FORM - IN THIS FORM, THE CONTRACTOR, SUBCONTRACTORS AND MATERIALMEN WAIVE THEIR RIGHT TO FILE A LIEN FOREVER.
14. CONTRACTOR'S AFFIDAVIT OF DISCLOSURE OF DEBTS AND CLAIMS. IN THIS DOCUMENT, THE CONTRACTOR SWEARS THAT ALL DEBTS AND CLAIMS ARE DISCLOSED. IT SUMMARIZES THE CURRENT AMOUNT DUE EACH FIRM (CONTRACTOR, SUBCONTRACTOR, OR MATERIALMEN) LISTED ON G703. IT ALSO PROVIDES THE ADDRESS, PHONE NUMBER, AND REPRESENTATIVE OF EACH FIRM.

CONTRACT FORMS
1. THE CONTRACT FOR CONSTRUCTION SHALL BE POPEYES LOUISIANA KITCHEN, INC. "CONSTRUCTION CONTRACT AGREEMENT" FOR ALL CONSTRUCTION.

GENERAL CONDITIONS

GENERAL:
A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", STANDARD FORM OF THE AMERICAN INSTITUTE OF ARCHITECTS, FORM A-201, LATEST EDITION, ARE HEREBY, EXCEPT AS TO THE SAME MAY BE INCONSISTENT HEREWITH, MADE A PART OF THIS SPECIFICATION. COPIES ARE TO BE OBTAINED AND ARE INCORPORATED BY REFERENCE AND HEREBY MADE A PART OF THE CONTRACT.
B. WHERE ANY ARTICLE OF THE AIA "GENERAL CONDITIONS" IS SUPPLEMENTED HEREBY THE AIA PROVISION OF SUCH ARTICLE SHALL REMAIN IN EFFECT. ALL THE SUPPLEMENTARY CONDITIONS SHALL BE CONSIDERED AS IF ADDED THERETO. WHERE ANY PORTION OF SUCH ARTICLE IS AMENDED, VOIDED OR SUPERSEDED THEREBY, THE PROVISIONS OF SUCH ARTICLE NOT SO SPECIFICALLY AMENDED, VOIDED, OR SUPERSEDED SHALL REMAIN IN EFFECT.
C. THE GENERAL CONDITION SUPPLEMENTARY CONDITIONS AND APPLICABLE PORTIONS OF DIVISION I OF THE SPECIFICATIONS APPLY TO ANY AND ALL SUBSEQUENT SECTIONS OF THESE SPECIFICATIONS.
D. WHERE ANY ARTICLE OR PORTION OF AN ARTICLE CONFLICTS WITH THE LAWS OF THE STATE OF THE LOCATION OF THE PROJECT, SUCH ARTICLE, OR PORTION OF THE ARTICLE IS HEREBY STRICKEN.
E. "CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE 1990 AMERICANS WITH DISABILITIES ACT (29CFR PART 1630). TITLE III AND THE REGULATIONS PROMULGATED IN ACCORDANCE THEREIN. CONTRACTOR SHALL INDEMNIFY AND HOLD OWNER AND ARCHITECT HARMLESS FROM ANY AND ALL LOSSES, SUITS, CLAIMS, COSTS, EXPENSES AND OTHER DAMAGES WHICH MAY BE INCURRED BY OWNER/ARCHITECT AS A RESULT OF CONTRACTOR'S FAILURE TO COMPLY WITH SAID ACT".

ARTICLE 3 - CONTRACTOR:
A. ARTICLE 3.4 LABOR AND MATERIALS OF SAID "GENERAL CONDITION" PARAGRAPH 4.4.3 IS HEREBY ADDED AS FOLLOWS:
"ALL CONTRACTORS AND SUBCONTRACTORS EMPLOYED UPON THE WORK SHALL BE REQUIRED TO CONFORM TO THE FEDERAL, STATE, AND LOCAL LABOR LAWS AND VARIOUS ACTS AMENDATORY AND SUPPLEMENTARY THERETO, AND TO ALL OTHER LAWS, ORDINANCES, AND LEGAL REQUIREMENTS APPLICABLE THERETO."
B. ARTICLE 3.6 TAXES OF SAID "GENERAL CONDITIONS" PARAGRAPH 3.6.1 IS HEREBY AMENDED AND SUPPLEMENTED AS FOLLOWS:
"THE CONTRACTOR SHALL PAY FOR ALL TAXES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK, BOTH TEMPORARY AND PERMANENT."
C. ARTICLE 3.7 PERMITS, FEES AND NOTICES OF SAID "GENERAL CONDITIONS" PARAGRAPH 4.7.3 DELETE IN ITS ENTIRETY AND SUBSTITUTE IN LIEU THEREOF AS FOLLOWS:
"THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE OWNER ANY CONFLICTS, OMISSIONS, DELETIONS, OR ERRORS IN THE DRAWINGS AND/OR SPECIFICATIONS WHICH DO NOT CONFORM TO APPLICABLE ZONING, CODE AND OTHER USE REGULATIONS AND/OR TO THE AMERICANS WITH DISABILITIES ACT AND REGULATIONS PROMULGATED THEREUNDER. THE CONTRACTOR SHALL NOT BE LIABLE TO THE OWNER OR THE ARCHITECT FOR ANY DAMAGES RESULTING FROM ANY SUCH ERRORS EXCEPT THAT CONTRACT SHALL BE FULLY AND EXCLUSIVELY LIABLE UPON FAILURE TO PUT ARCHITECT ON NOTICE OF SAID CONFLICTS, OMISSIONS, DELETIONS, OR ERRORS."
D. ARTICLE 3.15 CLEANING UP OF SAID "GENERAL CONDITIONS" PARAGRAPH 3.15.1 HEREBY AMENDED AND ADDED AS FOLLOWS:
"HE SHALL REMOVE FROM THE JOB SITE ALL CRATES, PACKING, DEBRIS, ETC., FROM KITCHEN EQUIPMENT. HE SHALL BROOM CLEAN THE BUILDING INTERIOR DAILY. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL LEAVE THE BUILDING CLEANED DUST FREE, CLEAN ALL GLASS, REPLACE ANY BROKEN GLASS, REMOVE STAINS, SPOTS, MARKS AND DIRT FROM DECORATED WORK, CLEAN HARDWARE, REMOVE PAINT SPOTS FROM ALL SURFACES, CLEAN FIXTURES, AND WASH ALL TILE FLOORS."

ARTICLE 11 - INSURANCE:
A. ARTICLE 11.1 CONTRACTOR'S LIABILITY INSURANCE OF SAID "GENERAL CONDITIONS" IS HEREBY MODIFIED AS FOLLOWS:
INSURANCE: COMPREHENSIVE, AUTOMOBILE, UMBRELLA LIABILITY CERTIFICATES OF INSURANCE FROM CARRIERS APPROVED BY THE OWNER SHALL BE FILED IN NOT LESS THAN THE FOLLOWING AMOUNTS OR GREATER AMOUNTS AS REQUIRED BY LAW PRIOR TO COMMENCEMENT OF THE WORK:
1. WORKMEN'S COMPENSATION:
AS REQUIRED BY LAW IN APPLICABLE STATE
2. COMPREHENSIVE GENERAL LIABILITY:
(A) $1,000,000 PER OCCURRENCE COMBINED- SINGLE LIMIT
(B) $2,000,000 AGGREGATE
3. OWNED AND NON-OWNED AUTOMOBILE LIABILITY:
$500,000 PER OCCURRENCE
4. 4. EXCESS (UMBRELLA) LIABILITY:
$2,000,000 PER OCCURRENCE ALL INSURANCE POLICIES AND CERTIFICATES FOR WORK PERFORMED FOR AFCE SHALL SHOW THE OWNER AS AN ADDITIONAL NAMED INSURED PARTY. THEY MUST ALSO STATE THAT THE COVERAGE AFFORDED UNDER THE POLICIES SHALL NOT BE CANCELED WITHOUT THIRTY (30) DAYS' PRIOR NOTICE TO THE OWNER AS EVIDENCED BY THE RETURN RECEIPT OF A REGISTERED LETTER AND BE IN FULL FORCE FOR 3 YEARS FOLLOWING COMPLETION EXPIRATION OR TERMINATION OF THIS CONTRACT.
B. ARTICLE 11.3 PROPERTY INSURANCE OF SAID "GENERAL CONDITIONS" IS HEREBY AMENDED AND MODIFIED AS FOLLOWS:
INSURANCE: FOR PROJECTS WHERE AFC ENTERPRISES IS THE OWNER, THE CONTRACTOR SHALL PROVIDE THE BUILDER'S RISK INSURANCE.
THE INSURANCE SHALL BE IN AN AMOUNT EQUAL TO THE TOTAL AMOUNT OF THE CONTRACT, LESS THE AMOUNT OF THE SITE WORK. INSURANCE WILL BE ON ALL RISK BASIS WITH $5,000.00 DEDUCTIBLE. THE $5,000 DEDUCTIBLE WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TOTAL AMOUNT OF LOSSES OF ALL BUILDING MATERIAL, TOOLS AND EQUIPMENT IN HIS POSSESSION AND NOT PERMANENTLY AFFIXED TO THE BUILDING OR SITE.
BUILDERS' RISK INSURANCE CERTIFICATES WILL BE FURNISHED UPON REQUEST BY AFCE. ONE COPY WILL BE SENT DIRECTLY TO AFCE'S CONSTRUCTION COORDINATOR.
CLAIMS FOR DAMAGES MUST BE REPORTED TO AFCE'S INSURANCE DEPARTMENT. IMMEDIATELY BY TELEPHONE (404) 391-9500. THEY ARE FOLLOWED BY WRITTEN REPORTS WITHIN TWENTY FOUR (24) HOURS BY A WRITTEN REPORT. SEND THE FIRST COPY TO AFCE'S INSURANCE DEPARTMENT; 5555 GLENRIDGE CONNECTOR, NE, SUITE 300, ATLANTA, GA 30342. AND SEND THE COPY TO AFCE'S CONSTRUCTION DEPARTMENT (SAME ADDRESS). THE CONTRACTOR SHALL RETAIN THE THIRD COPY FOR HIS FILES. BLANK FORMS ARE AVAILABLE FROM AFCE'S INSURANCE DEPT.

ARTICLE 7 - CHANGES IN THE WORK:
A. THE CHANGES ORDERS OF SAID "GENERAL CONDITIONS" SUBPARAGRAPH 7.2.1 IS HEREBY EXTENDED AS FOLLOWS:
4. IN CONSIDERING PROPOSALS FOR CHANGES INVOLVING ADDED WORK, OMITTED WORK, OR ANY COMBINATION OF THE TWO, CHECKING OF ESTIMATES WILL BE MADE BY THE OWNER. UTILIZING UNIT PRICES WHERE SPECIFIED OR AGREED UPON, WITH THE VIEW OF ARRIVING AT EQUITABLE ADJUSTMENTS".
5. WITH EACH PROPOSAL FOR A CHANGE INVOLVING INCREASE OR DECREASE IN THE AMOUNT OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT SEPARATELY AN ITEMIZED BREAKDOWN THAT WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
(A) MATERIAL QUANTITIES AND UNIT PRICES (SEPARATED INTO TRADES). PROVIDE BONA FIDE MANUFACTURERS' OR SUPPLIERS' PROPOSALS FOR MANUFACTURED OR PRE ASSEMBLED ITEMS.
(B) LABOR COST
(C) CONSTRUCTION EQUIPMENT
(D) WORKMEN'S COMPENSATION AND PUBLIC LIABILITY
(E) OVERHEAD
(F) PROFIT
(G) SOCIAL SECURITY TAX

SUPPLEMENTARY CONDITIONS

1. PAYMENT TO CONTRACTOR:
A. MONTHLY CONTRACT PAYMENT
MONTHLY PROGRESS PAYMENTS SHALL BE PAID BY THE OWNER FOR 90% OF THE WORK COMPLETED AND MATERIALS STORED AS OF THE LAST DAY OF EACH MONTH. PAYMENTS MAY BE MADE BY THE OWNER ON THE JOINT PAYEE BASIS, REIMBURSEMENT BASIS, OR CASH ADVANCE BASIS AT THE ELECTION OF THE OWNER. CONTRACTOR IS TO FORWARD AUTHORIZED CHANGE ORDER DIRECTIVES, AIA DOCUMENT G701, WHICH HAVE BEEN INCORPORATED TO THAT POINT, WITH APPLICATION FOR PAYMENT. CONTRACTOR IS TO ADVISE OWNER OR ITS AGENT OF ANY ITEM HE OR SUBCONTRACTOR BELIEVES IS AN ADDITIONAL COST OVER CONTRACT AMOUNT PRIOR TO DOING WORK.
(1) JOINT PAYEE BASIS
CONTRACTORS WILL MAKE APPLICATION TO AFCE ON OR BEFORE THE TENTH OF EACH MONTH FOR A CHECK PAYABLE JOINTLY TO THE SUBCONTRACTORS AND/OR MATERIAL SUPPLIERS AND THE CONTRACTOR. THE REQUEST WILL BE SUPPORTED BY THE ORIGINALS OF THE FOLLOWING DOCUMENTS (EXPLANATIONS OF THESE FORMS ARE GIVEN UNDER STANDARD FORMS):
(A) AIA DOCUMENT G702 - APPLICATION AND CERTIFICATE OF PAYMENT.
(B) AIA DOCUMENT G703 - CONTINUATION SHEET.
(C) CONTRACTOR'S AFFIDAVIT OF DISCLOSURE OF DEBTS AND CLAIMS. THIS FORM WILL BE PROVIDED BY POPEYES LOUISIANA KITCHEN, INC.
(D) INVOICES AND/OR TIME SHEETS WILL ACCOMPANY THE CERTIFICATE OF PAYMENT IN SUPPORT OF WORK AND MATERIALS PROVIDED DURING THE PERIOD OF THE APPLICATION FOR PAYMENT AND FROM EACH SUBCONTRACTOR AND MATERIAL SUPPLIER REFLECTED ON THE APPLICATION.
CONTRACTOR'S PARTIAL WAIVER OF LIENS FOR ALL WORK AND MATERIALS COVERED BY THE BILLING TO THE DATE FOR THE CONTRACTOR AND FOR EACH SUBCONTRACTOR AND MATERIAL SUPPLIER REFLECTED ON THE APPLICATION WILL BE EXECUTED BY THE JOINT PAYEE CHECK ENDORSEMENT AS FOLLOWS:
ALL PAYEES MUST SIGN THIS DISCHARGE
"ALL CLAIMS, INTEREST, AND DEMANDS OF THE UNDERSIGNED FOR LABOR DONE OR MATERIAL FURNISHED, AND FOR LIENS, JUDGMENTS, MORTGAGES, OR ANY ACCOUNTSWHATSOEVER AGAINST THE PROPERTY (TO BE) OCCUPIED AS A POPEYE'S RESTAURANT AT: (ADDRESS HERE)
OR
"THE OWNER THEREOF, ARE PAID AND SATISFIED, RELEASED, AND DISCHARGED TO THE EXTENT OF THE AMOUNT OF THIS CHECK. THE ENDORSEMENT OF THIS CHECK IS FULL EXECUTION OF THE FOREGOING RELEASE AND SHALL BEAR MY SIGNATURE THEREON."
EXCEPT FOR ANNOTATING THE ADDRESS OF THE CONSTRUCTION SITE, THE ENDORSEMENT MUST NOT BE ALTERED OR QUALIFIED IN ANY WAY.
(2) REIMBURSEMENT BASIS
CONTRACTORS WILL PAY ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS AND MAKE PRESENTATION TO POPEYES LOUISIANA KITCHEN ON OR BEFORE THE TENTH OF EACH MONTH FOR REIMBURSEMENT. THEIR REQUEST WILL BE SUPPORTED BY THE ORIGINALS OF THE FOLLOWING DOCUMENTS (EXPLANATIONS OF THESE FORMS ARE GIVEN UNDER STANDARD FORMS):
(A) AIA DOCUMENT G702 - APPLICATION AND CERTIFICATE FOR PAYMENT
(B) AIA DOCUMENT G703 - CONTINUATION SHEET.
(C) AIA DOCUMENT G706 - CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS.
(D) AIA DOCUMENT G706A - CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS.
(E) PARTIAL WAIVER OF LIEN FORM.
B. FINAL PAYMENT
CONTRACTORS WILL MAKE APPLICATION TO POPEYES LOUISIANA KITCHEN, INC. OR OWNER/FRANCHISEE, FOR THE FINAL PAYMENT. THE REQUEST WILL BE SUPPORTED BY THE ORIGINALS OF THE FOLLOWING DOCUMENTATION (EXPLANATIONS OF THESE FORMS ARE GIVEN UNDER STANDARD FORMS):
(1) AIA DOCUMENT G702 - APPLICATION AND CERTIFICATE FOR PAYMENT
(2) AIA DOCUMENT G703 - CONTINUATION SHEET.
(3) AIA DOCUMENT G706, AIA DOCUMENT G706A AND FINAL WAIVER OF LIENS FORM PROPERLY EXECUTED AND ACKNOWLEDGED.
(4) AIA DOCUMENT G805 - LIST OF SUBCONTRACTORS
WITHIN THIRTY (30) DAYS AFTER RECEIPT OF THE FILING FOR FINAL PAYMENT, THE OWNER SHALL PAY TO THE CONTRACTOR THE AMOUNT THEREIN STATED, LESS ALL DEDUCTIONS AUTHORIZED BY THE TERMS OF THIS CONTRACT AND PRIOR PAYMENTS AND ADVANCES WHATSOEVER TO OR FOR THE ACCOUNT OF THE CONTRACTOR.
ALL PRIOR ESTIMATES AND PAYMENTS INCLUDING THOSE RELATING TO EXTRA WORK SHALL BE SUBJECT TO CORRECTION AT THE TIME OF THIS PAYMENT, WHICH IS THEREFOR THIS CONTRACT CALLED FINAL PAYMENT. FINAL PAYMENT SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR DULY AUTHORIZED REPRESENTATIVES OF THE OWNER, AND BY THE REPRESENTATIVES OF ALL AGENCIES HAVING DIRECT INTEREST IN THE PROJECT.
QUESTIONS REGARDING APPLICATIONS CAN BE RESOLVED BY CONTACTING POPEYE'S CONSTRUCTION MANAGER.
2. CERTIFICATE OF SUBSTANTIAL COMPLETION:
THE DATE OF THIS CERTIFICATE SHALL SERVE AS THE TIME FOR COMPUTING THE GUARANTEE PERIOD OF THE BUILDING UNLESS OTHERWISE AGREED UPON.
3. OWNER'S USE AND OCCUPANCY OF BUILDING BEFORE ACCEPTANCE OF CONSTRUCTION:
THE OWNER, FOR OCCUPANCY OF THE BUILDING DESCRIBED IN THE DRAWINGS, MAY TAKE POSSESSION OF AND USE SAME AS HE SO DESIRES UPON A SUBSTANTIAL COMPLETION OF THE CONTRACT, ALSO FURTHER UPON RELIEVING THE CONTRACTOR OF ANY DAMAGE DONE TO THE BUILDING DUE SOLELY TO SUCH OCCUPANCY BY SAID OWNER BUT UNDER NO CIRCUMSTANCES SHALL SUCH OCCUPANCY BE AN ACCEPTANCE OF THE WORK FOR THE COMPLETION OF THE CONTRACT OR AN ACCEPTANCE OF THE LABOR DONE AND MATERIALS USED OR INSTALLED.
4. MANUFACTURED ITEMS IN THE SPECIFICATIONS:
WHERE ITEMS ARE LISTED IN THE SPECIFICATIONS AND/OR "OR EQUAL" IS MENTIONED, THE MATERIALS LISTED SHALL BE USED. THESE MATERIALS SHALL BE INCLUDED IN THE BID SUBMITTED ON THE BID FORM. NO DEVIATION FROM THE MATERIALS LISTED SHALL BE MADE BY THE CONTRACTORS SUBMITTING BIDS. AFTER AWARD OF THE CONTRACT, THE CONTRACTOR MAY SUBMIT A SUBSTITUTE MATERIAL FOR THE ITEMS SPECIFIED AS AN "EQUAL" TO THE MATERIAL. SUCH REQUEST SHALL BE SUPPORTED BY TECHNICAL DATA SHOWING THAT THE MATERIALS OR SERVICE IS EQUAL TO THE ITEMS SPECIFIED AND STATING THE AMOUNT OF DECREASE OR INCREASE IN THE CONTRACT SUM. IF NO CHANGE IN THE CONTRACT SUM WILL BE MADE, STATE "NO CHANGE". THE CONSULTANT'S ARCHITECTURE AND ENGINEERING DEPARTMENT WILL DETERMINE IF THE MATERIAL IS ACCEPTABLE AS A SUBSTITUTE FOR THE SPECIFIED ITEM AND MAKE NOTIFICATION IN WRITING TO THE CONTRACTOR, THIS RULING BEING FINAL. CHANGES TO THE CONTRACT SUM WILL BE HANDLED BY CHANGE ORDER AUTHORIZATION OR CHANGE ORDER FORM.
5. SALES TAX:
A. THIS PROJECT IS SUBJECT TO STATE AND LOCAL SALES TAX. INCLUDE SALES TAX ON ALL MATERIALS USED IN THE PROJECT.
B. WITH EACH REQUEST FOR PAYMENT, PROVIDE A CERTIFIED STATEMENT OF THE AMOUNT PAID FOR SALES TAX IN THE REQUESTED SUM.
6. NONDISCRIMINATION CLAUSE:
THE CONTRACTOR, HIS AGENT, OR HIS EMPLOYEES SHALL NOT DISCRIMINATE IN ANY MANNER ON THE BASIS OF RACE, COLOR, CREED, SEX, OR NATIONAL ORIGIN WITH REFERENCE TO THE SUBJECT MATTER OF THIS CONTRACT, NO MATTER HOW REMOTE.

DIVISION 01 - GENERAL REQUIREMENTS

WORK OF CONTRACT 01 01 00

PART 1 - GENERAL

1.1 CONTRACT DOCUMENTS
A. THE CONSTRUCTION CONTRACT DOCUMENT WILL BE PREPARED BY POPEYES. A COPY MAY NOT BE BOUND WITH THESE DOCUMENTS.
B. THE STANDARD FORM OF GENERAL CONDITIONS OF THE STIPULATED PRICE CONTRACT CCDC-2, 2008, AND SUPPLEMENTARY CONDITIONS THERETO FORM AN INTEGRAL PART OF THE SPECIFICATIONS.
C. PERFORM ALL WORK DESCRIBED IN THE CONTRACT DOCUMENTS UNDER ONE CONTRACT.
D. AN EXECUTED CCDC CONTRACT WILL BE REQUIRED BEFORE APPLICATION OF PERMIT.

1.2 CONTRACT WORK
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCLUSION OF ALL WORK REQUIRED FOR COMPLETION OF THE PROJECT AND SHALL CO-ORDINATE THE WORK OF HIS SUBCONTRACTORS SO THAT IT IS ACCOMPLISHED.
B. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS AND REPORT AND DISCREPANCIES TO THE OWNER PRIOR TO SUBMITTING TENDER.
C. THE CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATION OF ALL SUB-TRADES AS OUTLINED IN INSTRUCTIONS TO BIDDERS.
D. THE CONTRACTOR SHALL OFF-LOAD KITCHEN EQUIPMENT SUPPLIED BY STORE FIXTURE COMPANY AND POPEYES.
E. THE CONTRACTOR IS TO CLEAN THE SITE AND BUILDING BEFORE THE STORE FIXTURES AND POPEYES EQUIPMENT DELIVERY.
F. CONTRACTOR AND SUB-TRADES TO BE ON SITE AT ALL TIMES DURING EQUIPMENT INSTALLATION.
G. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING REFUSE REMOVAL FOR DURATION OF PROJECT.
H. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ROOF OF ALL DEBRIS AT THE END OF CONSTRUCTION.
I. THE CONTRACTOR SHALL KEEP THE SITE CLEAN AND ORDERLY CLEAN THE BUILDING AND SITE AT THE END OF EACH DAY DURING THE CONSTRUCTION PERIOD.

1.3 CONSTRUCTION STANDARDS
A. CONSTRUCTION WORK TO EQUAL OR EXCEED MINIMUM STANDARDS SPECIFIED FOR MATERIALS, INSTALLATION METHODS, WORKMANSHIP AND CONSTRUCTION OF PART 3 OF THE BUILDING CODE, LATEST EDITION, EXCEPT WHERE ADDITIONAL OR MORE STRINGENT REQUIREMENTS ARE IMPOSED BY REFERENCE TO OTHER PARTS OF THE NATIONAL BUILDING CODE OF CANADA, BY PROVINCIAL CODES, BY LOCAL JURISDICTIONAL AUTHORITIES, OR BY THE DRAWINGS, SPECIFICATIONS, SPECIFIED REFERENCE STANDARDS, AND OTHER INSTRUCTIONS INCLUDED WITH, OR ISSUED IN RELATION TO, THE CONTRACT DOCUMENTS FOR THIS PROJECT.

1.4 GENERAL CONTRACTOR
A. GENERAL CONTRACTOR TO CO-ORDINATE AND OBTAIN ALL REQUIRED INSPECTION CERTIFICATES AND DELIVER TO THE OWNER A FINAL OCCUPANCY PERMIT.
B. GENERAL CONTRACTOR TO OBTAIN ALL REQUIRED SURVEYS TO MEET BUILDING LAYOUT AND BUILDING PERMIT REQUIREMENTS.
C. GENERAL CONTRACTOR TO OBTAIN A REGISTERED SURVEY FOR THE BUILDING AND SITE PRIOR TO RELEASE OF FINAL PAYMENT. FINAL CONTRACTOR IS TO ADVISE OWNER OR ITS AGENT OF ANY ITEM HE OR SUBCONTRACTOR BELIEV

DIVISION 03 - CONCRETE

REINFORCED CONCRETE 03 30 00

PART 1 - GENERAL

1.1 SUMMARY

A. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.

B. REFERENCE STANDARDS BY THE AMERICAN CONCRETE INSTITUTE (ACI)

1. ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE," EXCEPT AS SPECIFICALLY MODIFIED IN THE SPECIFICATIONS AND/OR HEREIN.
2. ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
3. ACI 305, "HOT WEATHER CONCRETING" AND ACI 306, "COLD WEATHER CONCRETING."
4. ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

B. DESIGN MIXTURES: FOR EACH CONCRETE MIXTURE.

C. STEEL REINFORCEMENT SHOP DRAWINGS: PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT.

D. FORMWORK SHOP DRAWINGS: PREPARED BY OR UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER DETAILING FABRICATION, ASSEMBLY, AND SUPPORT OF FORMWORK.

1.3 INFORMATIONAL SUBMITTALS

A. WELDING CERTIFICATES.

B. MATERIAL CERTIFICATES.

C. MATERIAL TEST REPORTS.

D. FLOOR SURFACE FLATNESS AND LEVELNESS MEASUREMENTS.

1.4 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING READY-MIXED CONCRETE PRODUCTS AND THAT COMPLIES WITH ASTM C 94/C 94M-RE UIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT.

1. MANUFACTURER CERTIFIED ACCORDING TO NRMCA'S "CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES."

B. TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT AGENCY, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, QUALIFIED ACCORDING TO ASTM C 1077 AND ASTM E 329 FOR TESTING INDICATED.

C. WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.4/D 1.4M, "STRUCTURAL WELDING CODE - REINFORCING STEEL."

D. ACI PUBLICATIONS: COMPLY WITH THE FOLLOWING UNLESS MODIFIED BY REQUIREMENTS IN THE CONTRACT DOCUMENTS:

1. ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE."
2. ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."

E. CONCRETE TESTING SERVICE: ENGAGE A QUALIFIED INDEPENDENT TESTING AGENCY TO PERFORM MATERIAL EVALUATION TESTS AND TO DESIGN CONCRETE MIXTURES.

PART 2 - PRODUCTS

2.1 MATERIALS

A. STRUCTURAL CONCRETE

SEE STRUCTURAL DRAWINGS FOR CLASS, LOCATION, AND COMPRESSIVE STRENGTH OF CONCRETE AND BACKFILL.

B. REINFORCING BARS AND WELDED WIRE FABRIC

SEE STRUCTURAL DRAWINGS FOR SPECIFICATION.

C. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. MANUFACTURE BAR SUPPORTS FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE."

2.2 FIELD MIXING: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.

2.3 FOOTINGS AND FOUNDATION WALLS

A. PROVIDE AND INSTALL DOWELS IN CONCRETE FOOTINGS TO MATCH VERTICAL FOUNDATION WALL REINFORCING.

1. WHERE CONCRETE IS CONSTRUCTED ON TOP OF FOOTINGS PROVIDE 48 BAR DIAMETER REINFORCING LAP SPLICES BETWEEN DOWELS AND VERTICAL WALL REINFORCING.

B. INSTALL CORNER BARS AT FOUNDATION WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. LAP CORNER BARS WITH HORIZONTAL WALL AND FOOTING REINFORCING A MINIMUM OF 48 BAR DIAMETERS.

C. INSTALL LEAN CONCRETE (CLASS 1) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.

D. CONCRETE FOUNDATION WALLS ARE NOT DESIGNED TO BE STABLE DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL, IN A TIMELY MANNER TO PREVENT COLLAPSE OF THE WALLS, ADEQUATE BRACING DESIGNED TO RESIST ALL APPLICABLE LOADS OR FORCES. BRACING SHALL REMAIN IN PLACE UNTIL ALL STRUCTURAL ELEMENTS PROVIDING LATERAL SUPPORT FOR THE WALLS ARE IN PLACE AND THE WALLS HAVE ATTAINED THE SPECIFIED DESIGN STRENGTH.

2.4 PROVIDE #5 BAR DIAMETER LAP SPLICES AT ENDS OF CONTINUOUS HORIZONTAL AND CONTINUOUS VERTICAL REINFORCING.

2.5 CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES

B. CONCRETE EXPOSED TO EARTH OR WEATHER #5 BARS AND SMALLER 1-1/2 INCHES
OTHERS 2 INCHES

2.6 VAPOR RETARDERS

A. SHEET VAPOR RETARDER: ASTM E 1745. INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE.

B. SHEET VAPOR RETARDER: POLYETHYLENE SHEET, ASTM D 4397, NOT LESS THAN 10 MILS THICK

PART 3 - EXECUTION

3.1 FORMWORK

A. DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL STRUCTURE CAN SUPPORT SUCH LOADS.

B. CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117.

3.2 EMBEDDED ITEMS

A. PLACE AND SECURE ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.

3.3 VAPOR RETARDERS

A. SHEET VAPOR RETARDERS: PLACE, PROTECT, AND REPAIR SHEET VAPOR RETARDER ACCORDING TO ASTM E 1 43 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

1. LAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE.

3.4 STEEL REINFORCEMENT

A. GENERAL: COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING REINFORCEMENT.

1. DO NOT CUT OR PUNCTURE VAPOR RETARDER. REPAIR DAMAGE AND RESEAL VAPOR RETARDER BEFORE PLACING CONCRETE.

3.5 JOINTS

A. GENERAL: CONSTRUCT JOINTS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE.

B. CONSTRUCTION JOINTS: INSTALL SO STRENGTH AND APPEARANCE OF CONCRETE ARE NOT IMPAIRED, AT LOCATIONS INDICATED OR AS APPROVED BY ARCHITECT.

C. CONTRACTION JOINTS IN SLABS-ON-GRADE: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED ON FOUNDATION PLAN.

1. GROOVED JOINTS: FORM CONTRACTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT TO A RADIUS OF 1/8 INCH. REPEAT GROOVING OF CONTRACTION JOINTS AFTER APPLYING SURFACE FINISHES. ELIMINATE GROOVER TOOL MARKS ON CONCRETE SURFACES.
2. SAWED JOINTS: FORM CONTRACTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8-INCH-WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION CRACKS.

D. ISOLATION JOINTS IN SLABS-ON-GRADE: AFTER REMOVING FORMWORK, INSTALL JOINT-FILLER STRIPS AT SLAB JUNCTIONS WITH VERTICAL SURFACES, SUCH AS COLUMN PEDESTALS, FOUNDATION WALLS, GRADE BEAMS, AND OTHER LOCATIONS, AS INDICATED.

E. WATERSTOPS: INSTALL IN CONSTRUCTION JOINTS AND AT OTHER JOINTS INDICATED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

3.6 CONCRETE PLACEMENT

A. BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED.

B. DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE WILL BE PLACED ON CONCRETE THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS AS INDICATED. DEPOSIT CONCRETE TO AVOID SEGREGATION.

1. CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT ACCORDING TO ACI 301.

C. COLD-WEATHER PLACEMENT: COMPLY WITH ACI 30 .1.

D. HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301.

3.7 FINISHING FORMED SURFACES

A. ROUGH-FORMED FINISH: AS-CAST CONCRETE TEXTURE IMPARTED BY FORM-FACING MATERIAL WITH TIE HOLES AND DEFECTS REPAIRED AND PATCHED. REMOVE FINS AND OTHER PROJECTIONS THAT EXCEED SPECIFIED LIMITS ON FORMED-SURFACE IRREGULARITIES.

1. APPLY TO CONCRETE SURFACES [NOT EXPOSED TO PUBLIC VIEW] <INSERT LOCATIONS>

B. SMOOTH-FORMED FINISH: AS-CAST CONCRETE TEXTURE IMPARTED BY FORM-FACING MATERIAL, ARRANGED IN AN ORDERLY AND SYMMETRICAL MANNER WITH A MINIMUM OF SEAMS. REPAIR AND PATCH TIE HOLES AND DEFECTS. REMOVE FINS AND OTHER PROJECTIONS THAT EXCEED SPECIFIED LIMITS ON FORMED-SURFACE IRREGULARITIES.

1. APPLY TO CONCRETE SURFACES [EXPOSED TO PUBLIC VIEW,] [TO RECEIVE A RUBBED FINISH,] [TO BE COVERED WITH A COATING OR COVERING MATERIAL APPLIED DIRECTLY TO CONCRETE] <INSERT LOCATIONS>.

C. RUBBED FINISH: APPLY THE FOLLOWING TO SMOOTH-FORMED FINISHED AS-CAST CONCRETE WHERE INDICATED:

1. SMOOTH-RUBBED FINISH: NOT LATER THAN ONE DAY AFTER FORM REMOVAL, MOISTEN CONCRETE SURFACES AND RUB WITH CARBORUNDUM BRICK OR ANOTHER ABRASIVE UNTIL PRODUCING A UNIFORM COLOR AND TEXTURE. DO NOT APPLY CEMENT GROUT OTHER THAN THAT CREATED BY THE RUBBING PROCESS.
2. GROUT-CLEANED FINISH: WET CONCRETE SURFACES AND APPLY GROUT OF A CONSISTENCY OF THICK PAINT TO COAT SURFACES AND FILL SMALL HOLES. MIX ONE PART PORTLAND CEMENT TO ONE AND ONE-HALF PARTS FINE SAND WITH A 1:1 MIXTURE OF BONDING ADMIXTURE AND WATER. ADD WHITE PORTLAND CEMENT IN AMOUNTS DETERMINED BY TRIAL PATCHES SO COLOR OF DRY GROUT WILL MATCH ADJACENT SURFACES. SCRUB GROUT INTO VOIDS AND REMOVE EXCESS GROUT. WHEN GROUT HARDENS, RUB SURFACE WITH CLEAN BURLAP AND KEEP SURFACE DAMP BY FOG SPRAY FOR AT LEAST 36 HOURS.
3. CORK-FLOATED FINISH: WET CONCRETE SURFACES AND APPLY A STIFF GROUT. MIX ONE PART PORTLAND CEMENT AND ONE PART FINE SAND WITH A 1:1 MIXTURE OF BONDING AGENT AND WATER. ADD WHITE PORTLAND CEMENT IN AMOUNTS DETERMINED BY TRIAL PATCHES SO COLOR OF DRY GROUT WILL MATCH ADJACENT SURFACES. COMPRESS GROUT INTO VOIDS BY GRINDING SURFACE, IN A SWIRLING MOTION, FINISH SURFACE WITH A CORK FLOAT.

A. REPAIR INFORMED SURFACES: AT TOPS OF WALLS, HORIZONTAL OFFSETS, AND SIMILAR UNFORMED SURFACES ADJACENT TO FORMED SURFACES, STRIKE OFF SMOOTH AND FINISH WITH A TEXTURE MATCHING ADJACENT FORMED SURFACES. CONTINUE FINAL SURFACE TREATMENT OF FORMED SURFACES UNIFORMLY ACROSS ADJACENT UNFORMED SURFACES UNLESS OTHERWISE INDICATED.

3.8 FINISHING FLOORS AND SLABS

A. GENERAL: COMPLY WITH ACI 302.1R RECOMMENDATIONS FOR SCREEDING, RESTRAIGHTENING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES.

B. FLOAT FINISH: CONSOLIDATE SURFACE WITH POWER-DRIVEN FLOATS OR BY HAND FLOATING IF AREA IS SMALL OR INACCESSIBLE TO POWER DRIVEN FLOATS. RESTRAIGHTEN, CUT DOWN HIGH SPOTS, AND FILL LOW SPOTS. REPEAT FLOAT PASSES AND RESTRAIGHTENING UNTIL SURFACE IS LEFT WITH A UNIFORM, SMOOTH, GRANULAR TEXTURE.

1. APPLY FLOAT FINISH TO INTERIOR SLAB SURFACES.

C. TROWEL AND FINE-BROOM FINISH: APPLY A FIRST TROWEL FINISH TO EXTERIOR SLAB SURFACES. WHILE CONCRETE IS STILL PLASTIC, SLIGHTLY SCARIFY SURFACE WITH A FINE BROOM.

1. COMPLY WITH FLATNESS AND LEVELNESS TOLERANCES FOR TROWEL-FINISHED FLOOR SURFACES.

3.9 CONCRETE PROTECTING AND CURING

A. GENERAL: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 30 .1 FOR COLD-WEATHER PROTECTION AND ACI 30 5 FOR HOT-WEATHER PROTECTION DURING CURING.

B. EVAPORATION RETARDER: APPLY EVAPORATION RETARDER TO UNFORMED CONCRETE SURFACES IF HOT, DRY, OR WINDY CONDITIONS CAUSE MOISTURE LOSS APPROACHING 0.2 LB/SQ. FT. / H BEFORE AND DURING FINISHING OPERATIONS. APPLY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AFTER PLACING, SCREEDING, AND BULL FLOATING OR BROOM FINISHING CONCRETE, BUT BEFORE FLOAT FINISHING.

C. CURE CONCRETE ACCORDING TO ACI 308.1, BY ONE OR A COMBINATION OF THE FOLLOWING METHODS:

1. MOISTURE CURING: KEEP SURFACES CONTINUOUSLY MOIST FOR NOT LESS THAN SEVEN DAYS.
2. MOISTURE-RETAINING-COVER CURING: COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR CURING CONCRETE, PLACED IN WIDEST PRACTICABLE WIDTH, WITH SIDES AND ENDS LAPPED AT LEAST 12 INCHES, AND SEALED BY WATERPROOF TAPE OR ADHESIVE. CURE FOR NOT LESS THAN SEVEN DAYS. IMMEDIATELY REPAIR ANY HOLES OR TEARS DURING CURING PERIOD USING COVER MATERIAL AND WATERPROOF TAPE.
3. CURING COMPOUND: APPLY UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY OR ROLLER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. RECOAT AREAS SUBJECTED TO HEAVY RAINFALL WITHIN THREE HOURS AFTER INITIAL APPLICATION. MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DURING CURING PERIOD.

3.10 CONCRETE SURFACE REPAIRS

A. DEFECTIVE CONCRETE: REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL.

3.11 FIELD QUALITY CONTROL

A. TESTING AND INSPECTING: OWNER WILL ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.

END OF SECTION 03 30 00

DIVISION 04 - MASONRY

UNIT MASONRY 04 20 00

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.

B. REFERENCE STANDARDS

1. ACI 530/ASCE 5/TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES."
2. ACI 530.1/ASCE 6/TMS 602, "SPECIFICATION FOR MASONRY STRUCTURES."
   a. CONFORM COLD WEATHER MASONRY CONSTRUCTION TO PARAGRAPH 1.8.C.
   b. CONFORM HOT WEATHER MASONRY CONSTRUCTION TO PARAGRAPH 1.8.D.

1.3 DELIVERY, STORAGE, AND HANDLING

A. DELIVER MASONRY MATERIALS TO PROJECT IN UNDAMAGED CONDITION.

B. STORE AND HANDLE MASONRY UNITS OFF THE GROUND, UNDER COVER, AND IN A DRY LOCATION TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, TEMPERATURE CHANGES, CONTAMINANTS, CORROSION, AND OTHER CAUSES. IF UNITS BECOME WET, DO NOT PLACE UNTIL UNITS ARE IN AN AIR-DRIED CONDITION.

C. STORE CEMENTITIOUS MATERIALS OFF THE GROUND, UNDER COVER, AND IN DRY LOCATION.

D. STORE AGGREGATES WHERE GRADING AND OTHER REQUIRED CHARACTERISTICS CAN BE MAINTAINED AND CONTAMINATION AVOIDED.

E. STORE MASONRY ACCESSORIES INCLUDING METAL ITEMS TO PREVENT CORROSION AND ACCUMULATION OF DIRT AND OIL.

1.4 PROJECT CONDITIONS

A. PROTECTION OF MASONRY: DURING ERECTION, COVER TOPS OF WALLS, PROJECTIONS, AND SILLS WITH WATERPROOF SHEETING AT END OF EACH DAY'S WORK. COVER PARTIALLY COMPLETED MASONRY WHEN CONSTRUCTION IS NOT IN PROGRESS.

1. EXTEND COVER A MINIMUM OF 24 INCHES DOWN BOTH SIDES AND HOLD COVER SECURELY IN PLACE.

B. STAIN PREVENTION: PREVENT GROUT, MORTAR, AND SOIL FROM STAINING THE FACE OF MASONRY TO BE LEFT EXPOSED OR PAINTED. REMOVE IMMEDIATELY ANY GROUT, MORTAR, AND SOIL THAT COMES IN CONTACT WITH SUCH MASONRY.

C. CURE CONCRETE ACCORDING TO ACI 308.1, BY ONE OR A COMBINATION OF THE FOLLOWING METHODS:

1. PROTECT BASE OF WALLS FROM RAIN-SPLASHED MUD AND MORTAR SPLATTER BY MEANS OF COVERINGS SPREAD ON GROUND AND OVER WALL SURFACE.
2. PROTECT SILLS, LEDGES, AND PROJECTIONS FROM MORTAR DROPPINGS.
3. PROTECT SURFACES OF WINDOW AND DOORFRAMES, AS WELL AS SIMILAR PRODUCTS WITH PAINTED AND INTEGRAL FINISHES FROM MORTAR DROPPINGS.

D. COLD-WEATHER CONSTRUCTION: COMPLY WITH REQUIREMENTS IN ACI 530.1/ASCE 6/TMS 602 AND THE FOLLOWING:

1. DO NOT LAY MASONRY UNITS THAT ARE WET OR FROZEN.
2. REMOVE MASONRY DAMAGED BY FREEZING CONDITIONS.

D. HOT-WEATHER CONSTRUCTION: COMPLY WITH REFERENCED UNIT MASONRY STANDARD.

PART 2 - PRODUCTS

2.1 MATERIALS

A. CONCRETE BLOCK: ASTM C90, MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS: 2,500 PSI.

1. BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE, MINIMUM COMPRESSIVE STRENGTH: 2,500 PSI.
2. SIZE: PROVIDE CONCRETE MASONRY UNITS COMPLYING WITH REQUIREMENTS INDICATED BELOW FOR SIZES THAT ARE MANUFACTURED TO SPECIFIED FACE DIMENSIONS WITHIN TOLERANCES SPECIFIED FOR UNITS OF SIZES INDICATED BY REFERENCED ASTM SPECIFICATION FOR CONCRETE MASONRY UNITS.
3. CONCRETE MASONRY UNITS: WITH SPECIFIED DIMENSIONS OF 3/8 INCH LESS THAN NOMINAL WIDTHS BY NOMINAL HEIGHTS BY NOMINAL LENGTHS INDICATED ON DRAWINGS.
4. CONCRETE MASONRY UNITS WITH INTEGRAL WATER REPELLANT: WHERE SHOWN, PROVIDE UNITS MADE WITH LIQUID POLYMERIC, INTEGRAL WATER-REPELLANT ADMIXTURE THAT DOES NOT REDUCE FLEXURAL BOND STRENGTH FOR EXPOSED UNITS, PRODUCT: GRACE CONSTRUCTION PRODUCTS, A UNIT OF W.R. GRACE & CO. - CONN. "DRY-BLOCK"

END OF SECTION 03 30 00

2.2 BRICK (AS APPLICABLE)

A. STANDARD FACE BRICK AS MANUFACTURED BY BORAL, GENERAL SHALE, OR BELDEN BRICK; TO COMPLY WITH ASTM C 216, SEIVERE WEATHERING GRADE, TYPE FBS.

B. BRICK COLOR: SEE THE EXTERIOR FINISH SCHEDULE.

C. SAMPLES FOR VERIFICATION:

1. FACE BRICK, IN THE FORM OF STRAPS OF FIVE OR MORE BRICKS.
2. COLOR FOR COMPARISON TO EXISTING IF APPLICABLE.
3. SPECIAL SHAPES AS REQUIRED TO COMPLETE THE WORK AS DESCRIBED IN THE DRAWINGS.
4. WEEP HOLES AND VENTS.

2.3 MORTAR AND GROUT MIXES

A. MORTAR: TYPE S, MINIMUM COMPRESSIVE STRENGTH: 1,800 PSI.

B. FILL VERTICAL COLLAR JOINTS BELOW GRADE SOLIDLY WITH MORTAR.

2.4 MISCELLANEOUS

A. MASONRY WALLS ARE NOT DESIGNED TO BE STABLE DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL, IN A TIMELY MANNER TO PREVENT COLLAPSE OF THE WALLS, ADEQUATE BRACING DESIGNED TO RESIST ALL APPLICABLE LOADS OR FORCES. BRACING SHALL REMAIN IN PLACE UNTIL ALL STRUCTURAL ELEMENTS PROVIDING LATERAL SUPPORT FOR THE WALLS ARE IN PLACE AND THE WALLS HAVE ATTAINED THE SPECIFIED DESIGN STRENGTH.

B. FILL CORES SOLIDLY AROUND ANCHOR RODS.

C. LAY HOLLOW MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. PROVIDE FULL MORTAR COVERAGE FOR ALL WEBS IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE FILLED WITH GROUT. LAY SOLID UNITS WITH FULL HEAD AND BED JOINTS.

D. WHERE MASONRY UNITS OF DIFFERING WIDTHS ARE CONSTRUCTED ON ONE ANOTHER, INSTALL AT LEAST ONE FULL COURSE OF 100% SOLID OR SOLIDLY-GROUTED MASONRY FOR THE WIDER OF THE TWO UNITS, CONTINUOUSLY ALONG THE TRANSITION (FOR EXAMPLE, AT BRICK LEDGES).

2.5 HORIZONTAL JOINT REINFORCEMENT, WALL TIES AND ANCHORS MANUFACTURERS: HOHMANN & BARNARD, DUR-O-WAL, NATIONAL WIRE PRODUCTS CORP.

A. HORIZONTAL JOINT REINFORCEMENT:

1. EYE AND PINTLE TYPE RODS SPACED NOT MORE THAN 16 INCHES ON CENTER, CLASS B-2, HOT DIPPED GALVANIZED, WITH 9 GAGE SIDE RODS. SIZE, 2 INCHES LESS THAN NOMINAL WALL THICKNESS.
2. FREE STANDING COMPOSITE WALLS: LADDER DESIGN, CROSS RODS SPACED NOT MORE THAN 16 INCHES ON CENTER, CLASS B-2, HOT DIPPED GALVANIZED, WITH 9 GAGE SIDE RODS. SIZE, 2 INCHES LESS THAN NOMINAL WALL THICKNESS.
   a. CONCRETE BLOCK LATERAL SUPPORT ANCHORS: 1/8 INCH THICK X 1-1/4 INCH WIDE X 16 INCH LONG, MILL GALVANIZED WITH DOWN-TURNED END BENDS.
   b. WIRE MESH WALL TIES SHALL BE 16 GAGE HOT-DIPPED GALVANIZED WIRE MESH WITH 1/2 INCH OPENINGS.

B. MASONRY VENEER ANCHORS:

1. GALV. ADJUSTABLE VENEER ANCHOR WITH TWO CADMIUM COATED SCREWS, 14 GAGE ANCHOR AND 3/16 INCH DIAMETER STEEL TIES. PROVIDE ONE ANCHOR FOR EACH 2.0 SQUARE FEET OF WALL AREA. TIES SHALL BE SIZED TO EXTEND WITHIN 3/4 INCH OF FACE MASONRY. ANCHORS MUST BE FASTENED DIRECTLY TO METAL STUDS.
2. CORRUGATED METAL VENEER TIES SHALL NOT BE USED.

2.6 MISCELLANEOUS MASONRY ACCESSORIES

A. NONMETALLIC EXPANSION JOINT STRIPS: PREMOLDED FILLER STRIPS COMPLYING WITH ASTM D 1056, TYPE 2 (CLOSED CELL CLASS A CELLULAR RUBBER AND RUBBER-LIKE MATERIALS WITH SPECIFIC RESISTANCE TO PETROLEUM BASE OILS), GRADE 1 (COMPRESSION-DEFLECTION RANGE OF 2-5 PSI), COMPRESSIBLE UP TO 35 PERCENT, OF WIDTH AND THICKNESS INDICATED, FORMULATED FROM THE FOLLOWING MATERIAL:

1. NEOPRENE.

B. PREFORMED CONTROL JOINT GASKETS: MATERIAL AS INDICATED BELOW, DESIGNED TO FIT STANDARD SASH BLOCK AND TO MAINTAIN LATERAL STABILITY IN MASONRY WALL; SIZE AND CONFIGURATION AS INDICATED.

1. STYRENE-BUTADIENE RUBBER COMPOUND: ASTM D 2000, DESIGNATION 2AA-805.

C. BOND BREAKER STRIPS: ASPHALT-SATURATED ORGANIC ROOFING FELT COMPLYING WITH ASTM D 226, TYPE I (NO. 15 ASPHALT FELT).

D. WEEP/VENT PRODUCTS: USE RECTANGULAR PLASTIC WEEP/VENT TUBING. CLEAR BUTYRATE, 3/8" BY 1-1/2" BY 3-1/2" LONG. SPACE AS SHOWN BUT NOT LESS THAN 2'-0" O.C.

2.7 THRU WALL FLASHING

A. COPPER/PAPER FLASHING: 3 OZ. COPPER SHEET LAMINATED BETWEEN 2 SHEETS OF BITUMINOUS IMPREGNATED CREPE KRAFT PAPER OR SATURATED FABRIC.

B. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS SPECIFIED, PROVIDE ONE OF THE FOLLOWING:

1. W.R. GRACE & CO., "PERMA-A-BARRIER".
2. AFCO PRODUCTS, INC., "COP-A-BOND DUPLEX".
3. PHOENIX BUILDING PRODUCTS, INC.; "DUPLEX COP-R FLASH".
4. YORK MANUFACTURING, INC., "COP-R-TEX DUPLEX".

C. ADHESIVE FOR FLASHING; TYPE RECOMMENDED BY MANUFACTURER OF FLASHING MATERIAL FOR USE INDICATED.

2.8 MASONRY CLEANERS

A. JOB-MIXED DETERGENT SOLUTION: SOLUTION OF TRISODIUM PHOSPHATE (1/2-CUP DRY MEASURE) AND LAUNDRY DETERGENT (1/2-CUP DRY MEASURE) DISSOLVED IN ONE GALLON OF WATER.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER SPECIFIC CONDITIONS, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF UNIT MASONRY.

1. FOR THE RECORD, PREPARE WRITTEN REPORT, ENDORSED BY INSTALLER, LISTING CONDITIONS DETRIMENTAL TO PERFORMANCE OF UNIT MASONRY.

B. EXAMINE ROUGH-IN AND BUILT-IN CONSTRUCTION TO VERIFY ACTUAL LOCATIONS OF PIPING CONNECTIONS PRIOR TO INSTALLATION.

C. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION, GENERAL

A. COMPLY WITH REFERENCED UNIT MASONRY STANDARD AND OTHER REQUIREMENTS INDICATED APPLICABLE TO EACH TYPE OF INSTALLATION INCLUDED IN PROJECT.

B. THICKNESS: BUILD SINGLE-WYTHE WALLS TO THE ACTUAL THICKNESS OF THE MASONRY UNITS, USING UNITS OF NOMINAL THICKNESS INDICATED.

C. GUILD CHASES AND RECESSES AS SHOWN OR REQUIRED TO ACCOMMODATE ITEMS SPECIFIED IN THIS AND OTHER SECTIONS OF THE SPECIFICATIONS. PROVIDE NOT LESS THAN 8 INCHES OF MASONRY BETWEEN CHASE OR RECESS AND JAMB OF OPENINGS AND BETWEEN ADJACENT CHASES AND RECESSES.

D. LEAVE OPENINGS FOR EQUIPMENT TO BE INSTALLED BEFORE COMPLETION OF MASONRY. AFTER INSTALLATION OF EQUIPMENT, COMPLETE MASONRY TO MATCH CONSTRUCTION IMMEDIATELY ADJACENT TO THE OPENING.

E. CUT MASONRY UNITS WITH DRY SAWS TO PROVIDE CLEAN, SHARP, UNCHIPPED EDGES. CUT UNITS AS REQUIRED TO PROVIDE CONTINUOUS PATTERN AND TO FIT ADJOINING CONSTRUCTION. USE FULL-SIZE UNITS WITHOUT CUTTING WHERE POSSIBLE.

3.3 CONSTRUCTION TOLERANCES

A. COMPLY WITH CONSTRUCTION TOLERANCES OF REFERENCED UNIT MASONRY STANDARD.

3.4 LAYING MASONRY WALLS

A. LAY UNITS IN ADVANCE FOR ACCURATE SPACING OF SURFACE BOND PATTERNS WITH UNIFORM JOINT WIDTHS AND FOR ACCURATE LOCATING OF OPENINGS, MOVEMENT-TYPE JOINTS, RETURNS, AND OFFSETS. AVOID THE USE OF LESS-THAN-HALF-SIZE UNITS AT CORNERS, JAMBS, AND WHERE POSSIBLE AT OTHER LOCATIONS.

B. LAY UP WALLS TO COMPLY WITH SPECIFIED CONSTRUCTION TOLERANCES, WITH COURSES ACCURATELY SPACED AND COORDINATED WITH OTHER CONSTRUCTION.

C. BOND PATTERN FOR EXPOSED MASONRY: LAY EXPOSED MASONRY IN THE FOLLOWING BOND PATTERN; DO NOT USE UNITS WITH LESS THAT NOMINAL 4-INCH HORIZONTAL FACE DIMENSIONS AT CORNERS OR JAMBS.

1. ONE-HALF RUNNING BOND WITH VERTICAL JOINT IN EACH COURSE CENTERED ON UNITS IN COURSES ABOVE AND BELOW.

D. LAY CONCEALED MASONRY WITH ALL UNITS IN A WYTHE IN RUNNING BOND OR BONDED BY A METHOD INVOLVING LESS THAN 3 HEADERS. BOND AND INTERLOCK EACH COURSE OF EACH WYTHE AT CORNERS. DO NOT USE UNITS WITH LESS THAN NOMINAL 4-INCH HORIZONTAL FACE DIMENSIONS AT CORNERS OR JAMBS.

E. STOPPING AND RESUMING WORK: IN EACH COURSE, RACK BACK 1/2-UNIT LENGTH FOR ONE-HALF RUNNING BOND OR 1/3-UNIT LENGTH FOR ONE-THIRD RUNNING BOND; DO NOT TOOTH. CLEAN EXPOSED SURFACES OF UNSET MASONRY THAT COMPLY UNITS LIGHTLY (IF REQUIRED), AND REMOVE LOOSE MASONRY UNITS AND

1. AVAILABLE PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING.
2. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   a. PLY-TRIM, INC.; DURABOARD.
   b. ROYAL MOULDINGS LIMITED; PRO SERIES EXTERIOR MOULDINGS.
   c. VYCOM CORP.; AZEK.
3. DENSITY: NOT LESS THAN 31 LB/CU. FT. (500 KG/CU. M.)
4. HEAT DEFLECTION TEMPERATURE: NOT LESS THAN 130 F (54 C), PER ASTM D 48.
5. FLAME SPREAD INDEX: 75 OR LESS, PER ASTM E 84.

2.5 INTERIOR STANDING AND RUNNING TRIM

A. PROVIDE TRIM PER THIS SECTION, UNLESS OTHERWISE INDICATED.
B. SOFTWOOD LUMBER TRIM:
   1. SPECIES AND GRADE: EASTERN WHITE PINE; AWI PREMIUM GRADE.
   2. MAXIMUM MOISTURE CONTENT: 15 PERCENT.
   3. FACE SURFACE: SURFACED (SMOOTH).
   4. MATERIAL SUITABLE TO RECEIVE TRANSPARENT FINISH.
C. HARDWOOD LUMBER TRIM:
   1. SPECIES AND GRADE: SELECT WHITE BIRCH, MILL CLEAR, AWI PREMIUM GRADE.
   2. MAXIMUM MOISTURE CONTENT: 9 PERCENT.
   3. FACE SURFACE: SURFACED (SMOOTH).
   4. MATERIAL SUITABLE TO RECEIVE TRANSPARENT FINISH.
D. SOFTWOOD MOLDINGS: WIMMPA WM 4, N-GRADE WOOD MOLDINGS. MAKE PATTERNS INCLUDED IN WIMMPA WM 12.
   1. SPECIES AND GRADE: EASTERN WHIT PINE; AWI PREMIUM GRADE.
   2. MAXIMUM MOISTURE CONTENT: 15 PERCENT.
   3. MATERIAL SUITABLE TO RECEIVE TRANSPARENT FINISH.
E. HARDWOOD MOLDINGS: WIMMPA HWM 2, N-GRADE WOOD MOLDINGS. MAKE PATTERNS INCLUDED IN WIMMPA WM 12.
   1. SPECIES AND GRADE: SELECT WHITE BIRCH, MILL CLEAR, AWI PREMIUM GRADE.
   2. MAXIMUM MOISTURE CONTENT: 9 PERCENT.
   3. MATERIAL SUITABLE TO RECEIVE TRANSPARENT FINISH.

2.6 SHEET MATERIALS

A. PROVIDE SHEET MATERIAL PER THIS SECTION, UNLESS OTHERWISE INDICATED.
B. INTERIOR SOFTWOOD PLYWOOD:
   1. SPECIES AND GRADE: DOUGLAS FIR, AWI PREMIUM GRADE.
   2. FACE SURFACE: SURFACED (SMOOTH) PLUGGED AND SANDED.
C. EXTERIOR MEDIUM DENSITY OVERLAY PLYWOOD:
   1. GRADE: PS 1-95 AWI PREMIUM VENEER GRADE.
   2. VENEER CORE:
   3. TYPE OF GLUE: AS RECOMMENDED FOR APPLICATION.
   4. PAPER SATURATED WITH PHENOLIC RESIN SOLID FACE (PAPER SATURATED FACE ONE SIDE ONLY AND EQUAL TO TOSENBERG MOD BY ROSEBURG FORREST PRODUCTS. FURNISH FACTORY PRIMED (2) SIDES AND EDGES).

2.7 MISCELLANEOUS MATERIALS

A. FOR FASTENER SPECIFICATIONS, SEE ROUGH CARPENTRY - SECTION 06 10 00
B. GLUE: ALIPHATIC RESIN, POLYURETHANE, OR RESORCINOL WOOD GLUE.
   1. USE WOOD GLUE THAT HAS A VOC CONTENT OF 30 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
C. ACCESSORIES:
   1. LUMBER FOR SHIMMING, BLOCKING, AND MISCELLANEOUS USE: SOFTWOOD LUMBER OF DOUGLAS FIR, UTILITY GRADE SPECIES. SIZE AS REQUIRED FOR CONDITION UNLESS SHOWN OTHERWISE.
   2. PLASTIC EDGE TRIM: EXTRUDED COVER SHAPE; SMOOTH FINISH; SELF LOCKING SERRATED TONGUE; WIDTH TO MATCH COMPONENT THICKNESS; COLOR AS SELECTED BY ARCHITECT.
   3. PRIMER: ALKYD PRIMER SEALER TYPE. PRIME IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENT AND PER SECTION 09900 (PAINTING).
   4. WOOD FILLER: OIL BASE, TINTED TO MATCH SURFACE FINISH COLOR.
D. HARDWARE:
   1. BHMA A156.9 AS FOLLOWS: ALL HARDWARE TO BE AS SHOWN ON DRAWINGS. IF NOT SHOWN PROVIDING HARDWARE AS DIRECTED BY OWNER AND/OR AS REQUIRED FOR A COMPLETE INSTALLATION.
E. FABRICATION:
   1. FABRICATE TO AWI PREMIUM STANDARDS.
   2. SHOP ASSEMBLE WORK FOR DELIVERY TO SITE, PERMITTING PASSAGE THROUGH BUILDING OPENINGS.
   3. FIT INTERIOR EXPOSED SHEET MATERIAL EDGES WITH PLASTIC EDGING WHERE SHOWN (NEVER LEAVE IN FINISHED EDGE EXPOSED TO VIEW).
   4. WHEN NECESSARY TO CUT AND FIT ON SITE, PROVIDE MATERIALS WITH AMPLE ALLOWANCE FOR CUTTING. PROVIDE TRIM FOR SCRIBING AND SITE CUTTING.
F. SHOP FINISHING:
   1. SAND WORK SMOOTH AND SET EXPOSED NAILS AND SCREWS.
   2. APPLY WOOD FILLER IN EXPOSED NAIL AND SCREW INDENTATIONS.
   3. ON ITEMS TO RECEIVE TRANSPARENT FINISHES, USE WOOD FILLER WHICH MATCHES SURROUNDING SURFACES AND OF TYPES RECOMMENDED FOR APPLIED FINISHES.
   4. FINISH WORK IN ACCORDANCE WITH AWI AS SHOWN ON DRAWINGS AND AS DIRECTED BY OWNER.

PART 3 - EXECUTION

3.1 EXAMINATION

A. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK.
B. VERIFY ADEQUACY OF BACKING AND SUPPORT FRAMING.
C. VERIFY MECHANICAL, ELECTRICAL, AND BUILDING ITEMS AFFECTING WORK OF THIS SECTION ARE PLACED AND READY TO RECEIVE THIS WORK.

3.2 INSTALLATION

A. INSTALL WORK IN ACCORDANCE WITH AWI PREMIUM QUALITY STANDARD.
B. SET AND SECURE MATERIALS AND COMPONENTS IN PLACE, PLUMB, AND LEVEL.
C. CAREFULLY SCRIBE WORK ABUTTING OTHER COMPONENTS, WITH MAXIMUM GAPS OF 1/32 INCH (1 MM). DO NOT USE MATERIAL OVERLAY TRIM TO CONCEAL LARGER GAPS.
D. MITER 90 DEGREES EXTERIOR CORNERS OF MDO EXTERIOR PLYWOOD.
E. INSTALL HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
F. SET EXPOSED FASTENERS. APPLY WOOD FILLER IN EXPOSED FASTENER INDENTATIONS. SAND WHEN SMOOTH.

3.3 ERECTION TOLERANCES

A. MAXIMUM VARIATION FROM TRUE POSITION: 1/16 INCH (1.5 MM).
B. MAXIMUM OFFSET FROM TRUE ALIGNMENT WITH ABUTTING MATERIALS: 1/32 INCH (0.7MM).

END OF SECTION 06 20 00

DIVISION 7 - THERMAL & MOISTURE PROTECTION

THERMAL INSULATION SECTION 07 21 00

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. SINGLE-SOURCE RESPONSIBILITY FOR INSULATION PRODUCTS: OBTAIN EACH TYPE OF BUILDING INSULATION FROM A SINGLE SOURCE WITH RESOURCES TO PROVIDE CONSISTENT QUALITY IN APPEARANCE AND PHYSICAL PROPERTIES WITHOUT DELAYING PROGRESS OF THE WORK.

1.3 DELIVERY, STORAGE AND HANDLING

A. PROTECT INSULATION MATERIALS FROM PHYSICAL DAMAGE AND FROM DETERIORATION BY MOISTURE, SOILING, AND OTHER SOURCES. STORE INSIDE AND IN A DRY LOCATION, COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR HANDLING, STORAGE, AND PROTECTION DURING INSTALLATION.
B. PROTECT PLASTIC INSULATION AS FOLLOWS: DO NOT EXPOSE TO SUNLIGHT, EXCEPT TO EXTENT NECESSARY FOR PERIOD OF INSTALLATION AND CONCEALMENT. PROTECT AGAINST IGNITION AT ALL TIMES. DO NOT DELIVER PLASTIC INSULATING MATERIALS TO PROJECT SITE AHEAD OF INSTALLATION TIME. COMPLETE INSTALLATION AND CONCEALMENT OF PLASTIC MATERIALS AS RAPIDLY AS POSSIBLE IN EACH AREA OF CONSTRUCTION.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. EXTRUDED POLYSTYRENE BOARD INSULATION: OWENS CORNING OR DOW CHEMICAL COMPANY OR DIVERSIFOAM PRODUCTS.
B. BATT INSULATION: OWENS CORNING OR JOHNS MANVILLE INTERNATIONAL, INC. OR CERTAINTEED PRODUCTS CORPORATION.

2.2 INSULATING MATERIALS

A. GENERAL: PROVIDE INSULATING MATERIALS AS SCHEDULED IN THE DRAWINGS, THAT COMPLY WITH REQUIREMENTS AND WITH REFERENCED STANDARDS. PREFORMED UNITS: SIZED TO FIT APPLICATIONS INDICATED; SELECTED FROM MANUFACTURER'S STANDARD THICKNESS, WIDTHS AND LENGTHS.
B. EXTRUDED POLYSTYRENE BOARD INSULATION: RIGID, CELLULAR POLYSTYRENE THERMAL INSULATION WITH CLOSED CELLS AND INTEGRAL, HIGH DENSITY SKIN, FORMED BY THE EXPANSION OF POLYSTYRENE BASE RESIN IN AN EXTRUSION PROCESS TO COMPLY WITH ASTM C 578 FOR TYPE INDICATED; WITH 5-YEAR AGED R-VALUES OF 5.4 AND 5 AT 40 AND 75 DEG F (4.4 AND 23.9 DEG C), RESPECTIVELY; AND TYPE IV, 1.6-PCF MIN. DENSITY, UNLESS OTHERWISE INDICATED; SURFACE BURNING CHARACTERISTICS: MAXIMUM FLAME SPREAD AND SMOKE DEVELOPMENT VALUES OF 75 AND 450, RESPECTIVELY. FOR EXPOSED INSULATION FLAME SPREAD SHALL NOT EXCEED 25.
C. BATT INSULATION: GLASS FIBER BLANKET TYPE INSULATION: TYPE III, FOIL-SCRIM-KRAFT LAMINATE FACED, CLASS A, ASTM C665 AND FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPMENT OF 50 OR LESS. MANUFACTURER'S STANDARD LENGTHS AND WIDTHS REQUIRED TO COORDINATE WITH SPACES INSULATED.
D. MINERAL FIBER FIRESTOPPING INSULATION: UNITED STATES GYPSUM CO. "THERMAFIBER SAFING INSULATION" OR AN APPROVED EQUAL. TYPE 1 UNFACED. MANUFACTURER'S STANDARD LENGTHS, WIDTHS AND THICKNESS. PROVIDE MANUFACTURER'S STANDARD IMPALING STYLE GALVANIZED STEEL SAFING INSULATION CLIPS AND BRACKETS.
   MATERIALS SHALL BE RATED NON-COMBUSTIBLE AS DEFINED BY NFPA WHEN TESTED IN ACCORDANCE WITH ASTM E136.

2.3 VAPOR RETARDERS

A. POLYETHYLENE VAPOR RETARDER: ASTM D4397, 8 MILS THICK WITH MAXIMUM PERM RATING OF 0.1 PERM. PROVIDE PRESSURE SENSITIVE TAPE OF TYPE RECOMMENDED BY VAPOR-RETARDER MANUFACTURER FOR SEALING JOINTS AND PENETRATIONS.

2.4 PROTECTION

A. GENERAL: PROTECT INSTALLATION AND VAPOR RETARDERS FROM DAMAGE DUE TO HARMFUL WEATHER EXPOSURES, PHYSICAL ABUSE, AND OTHER CAUSES. PROVIDE TEMPORARY COVERINGS OR ENCLOSURES WHERE INSULATION WILL BE SUBJECT TO ABUSE AND CANNOT BE CONCEALED AND PROTECTED BY PERMANENT CONSTRUCTION IMMEDIATELY AFTER INSTALLATION.

PART 3 - EXECUTION

3.1 INSTALLATION

A. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR CONDITIONS OF INSTALLATION INDICATED.
B. EXTEND INSULATION FULL THICKNESS OVER ENTIRE AREA TO BE INSULATED. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS. FILL ALL VOIDS.
C. INSTALL INSULATION IN SINGLE LAYER OF REQUIRED THICKNESS. DO NOT INSTALL BROKEN RIGID BOARD PANELS OR TORN BLANKET INSULATION.
D. PROVIDE INSULATION CONTINUOUS BEHIND ELECTRICAL BOXES, CONDUIT AND PIPING AT EXTERIOR WALLS.
E. INSTALL BLANKET TYPE INSULATION WITH TIGHT FITTING BUTT JOINTS. INSTALL FOIL FACING VAPOR BARRIER EXPOSED TO THE INTERIOR. PROVIDE SUPPLEMENTARY SUPPORT WHEN REQUIRED TO MAINTAIN INSULATION IN PERMANENT PROPER LOCATION.
F. INSTALL BLANKET TYPE INSULATION LOCATED NEAR BOTTOM CHORD OF ROOF TRUSS OVER A WIRE MESH SUPPORT PLANE WHICH IS SECURED TO THE ROOF TRUSS MEMBER. INSTALL FOIL FACING VAPOR BARRIER EXPOSED TO THE INTERIOR. WIRE MESH TO BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE BLANKET TYPE INSULATION MANUFACTURER'S RECOMMENDATIONS.
G. INSTALL FIRESTOPPING MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO MAINTAIN FIRE SEPARATIONS INDICATED. INSTALL FIRESTOPPING INSULATION OF PROPER SIZES AND THICKNESS WITH BRACKETS OR SAFING CLIPS SPACED AS NEEDED AND NOT MORE THAN 24" ON CENTER. FILL SAFE-OFF AREA. FILL ALL VOIDS. PROVIDE CONTINUITY OF FIRE SAFETY SYSTEMS AS INDICATED.

END OF SECTION 07 21 00

EXTERIOR INSULATION AND SECTION 07 24 00 FINISH SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

A. PROVIDE AIR AND MOISTURE BARRIER, AND COMPATIBLE EIFS FOR VERTICAL ABOVE GRADE EXTERIOR WALLS
B. RELATED SECTIONS:
   1. SECTION 06 16 00: SHEATHING
   2. SECTION 07 62 00: SHEET METAL FLASHING AND TRIM
   3. SECTION 08 11 00 METAL DOORS AND FRAMES
   4. SECTION 08 41 13 ALUMINUM ENTRANCES AND STOREFRONT WINDOWS

1.2 SUBMITTALS

A. MANUFACTURER'S SPECIFICATIONS, DETAILS, INSTALLATION INSTRUCTIONS AND PRODUCT DATA
B. MANUFACTURER'S CODE COMPLIANCE REPORT
C. MANUFACTURER'S STANDARD WARRANTY
D. APPLICATOR'S INDUSTRY TRAINING CREDENTIALS
E. SAMPLES FOR APPROVAL AS DIRECTED BY ARCHITECT OR OWNER
F. SEALANT MANUFACTURER'S CERTIFICATE OF COMPLIANCE WITH ASTM C 1382
G. PREPARE AND SUBMIT PROJECT-SPECIFIC DETAILS (WHEN REQUIRED BY CONTRACT DOCUMENTS)

1.3 REFERENCES

A. ASTM STANDARDS:

   ASTM C 578 SPECIFICATION FOR PREFORMED, CELLULAR POLYSTYRENE THERMAL INSULATION
   ASTM C 1382 TEST METHOD FOR DETERMINING TENSILE ADHESION PROPERTIES OF SEALANTS WHEN USED IN EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) JOINTS

   ASTM E 84 TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
   ASTM E 96 TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS
   ASTM E 119 TEST METHOD FOR FIRE TESTS OF BUILDING CONSTRUCTION MATERIALS
   ASTM E 2134 TEST METHOD FOR EVALUATING THE TENSILE-ADHESION PERFORMANCE OF AN EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)
   ASTM E 2178 TEST METHOD FOR AIR PERMEANCE OF BUILDING MATERIALS
   ASTM E 2273 TEST METHOD FOR DETERMINING THE DRAINAGE EFFICIENCY OF EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) CLAD WITH DRAINAGE ASSEMBLIES
   ASTM E 2357 STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE OF AIR BARRIER ASSEMBLIES
   ASTM E 2485 STANDARD TEST METHOD FOR FREEZE/THAW RESISTANCE OF EXTERIOR I NSULATION AND FINISH SYSTEMS (EIFS) AND WATER RESISTIVE BARRIER COATINGS

B. BUILDING CODE STANDARDS

   AC 235 ACCEPTANCE CRITERIA FOR EIFS CLAD DRAINAGE WALL ASSEMBLIES (NOVEMBER, 2009)

C. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS

   NFPA 268 STANDARD TEST METHOD FOR DETERMINING IGNITABILITY OF EXTERIOR WALL ASSEMBLIES USING A RADIANT HEAT ENERGY SOURCE
   NFPA 285 STANDARD METHOD OF TEST FOR THE EVALUATION OF FLAMMABILITY CHARACTERISTICS OF EXTERIOR NON-LOAD-BEARING WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS USING THE INTERMEDIATE-SCALE, MULTISTORY TEST APPARATUS

D. OTHER REFERENCED DOCUMENTS
   1. AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS AATCC-127 WATER RESISTANCE: HYDROSTATIC PRESSURE TEST

   3. ICC-ES ESR-1233, STOGUARD WITH GOLD COAT, STOGUARD WITH EMERALDCOAT, AND STOGUARD VAPORSEAL WATER-RESISTIVE BARRIERS AND STOENERGY GUARD
   4. ICC-ES ESR-1748, STOTHERM CI

1.4 DESIGN REQUIREMENTS

A. WIND LOAD
   1. DESIGN FOR MAXIMUM ALLOWABLE SYSTEM DEFLECTION, NORMAL TO THE PLANE OF THE WALL, OF L/240.
   2. DESIGN FOR WIND LOAD IN CONFORMANCE WITH CODE REQUIREMENTS.
   3. MAXIMUM WIND LOAD RESISTANCE: + 188 PSF (9.00 KPA), PROVIDED STRUCTURAL SUPPORTS, AND SHEATHING/SHEATHING ATTACHMENT ARE ADEQUATE TO RESIST THESE PRESSURES.
B. MOISTURE CONTROL
   1. PREVENT THE ACCUMULATION OF WATER BEHIND THE EIFS OR INTO THE WALL ASSEMBLY, EITHER BY CONDENSATION OR LEAKAGE THROUGH THE WALL CONSTRUCTION, IN THE DESIGN AND DETAILING OF THE WALL ASSEMBLY:
      a. PROVIDE FLASHING TO DIRECT WATER TO THE EXTERIOR WHERE IT IS LIKELY TO PENETRATE COMPONENTS IN THE WALL ASSEMBLY, INCLUDING, ABOVE WINDOW AND DOOR HEADS, BENEATH WINDOW AND DOOR SILLS, AT ROOF/WALL INTERSECTIONS, DECKS, ABUTMENTS OF LOWER WALLS WITH HIGHER WALLS, ABOVE PROJECTING FEATURES, AT FLOOR LINES, AND AT THE BASE OF THE WALL.
      b. AIR LEAKAGE PREVENTION - PROVIDE CONTINUITY OF THE AIR BARRIER SYSTEM AT FOUNDATION, ROOF, WINDOWS, DOORS, AND OTHER PENETRATIONS THROUGH THE WALL WITH CONNECTING AND COMPATIBLE AIR BARRIER COMPONENTS TO MINIMIZE CONDENSATION AND LEAKAGE CAUSED BY AIR MOVEMENT.
   2. VAPOR DIFFUSION AND CONDENSATION - PERFORM A DEW POINT ANALYSIS AND/OR DYNAMIC HYGROTHERMAL MODELING OF THE WALL ASSEMBLY TO DETERMINE THE POTENTIAL FOR ACCUMULATION OF MOISTURE IN THE WALL ASSEMBLY BY DIFFUSION. ADJUST INSULATION THICKNESS AND/OR OTHER WALL ASSEMBLY COMPONENTS ACCORDINGLY TO MINIMIZE RISK. AVOID THE USE OF VAPOR RETARDERS ON THE INTERIOR SIDE OF THE WALL IN WARM,

C. IMPACT RESISTANCE
   1. PROVIDE 2 LAYERS OF STO MESH TO A MINIMUM HEIGHT OF 2-0 ABOVE GRADE AT ENTIRE BUILDING PERIMETER.
D. JOINTS
   1. PROVIDE MINIMUM 3/4 INCH (19 MM) WIDE JOINTS IN THE EIFS WHERE THEY EXIST IN THE SUBSTRATE OR SUPPORTING CONSTRUCTION, WHERE THE CLADDING ADJOINS DISSIMILAR CONSTRUCTION OR MATERIALS, AT CHANGES IN BUILDING HEIGHT, AT EXPANSION, CONTROL, AND COLD JOINTS IN CONSTRUCTION, AT AND FLOOR LINES IN MULTI-LEVEL WOOD FRAME CONSTRUCTION. SIZE JOINTS TO CORRESPOND WITH ANTICIPATED MOVEMENT. ALIGN TERMINATING EDGES OF EIFS WITH JOINT EDGES OF THROUGH WALL EXPANSION JOINTS AND SIMILAR JOINTS IN CONSTRUCTION. REFER TO STO DETAILS.
   2. PROVIDE MINIMUM 1/2 INCH (13 MM) WIDE PERIMETER SEALANT JOINTS AT ALL PENETRATIONS THROUGH THE EIFS (WINDOWS, DOORS, MECHANICAL, ELECTRICAL, AND PLUMBING PENETRATIONS, ETC.).
   3. PROVIDE COMPATIBLE BACKER ROD AND SEALANT THAT HAS BEEN EVALUATED IN ACCORDANCE WITH ASTM C 1382, AND THAT MEETS MINIMUM 50% ELONGATION AFTER CONDITIONING.
   4. 2 PROVIDE JOINTS SO THAT AIR BARRIER CONTINUITY IS MAINTAINED ACROSS THE JOINT, AND DRAIN JOINTS TO THE EXTERIOR, OR PROVIDE OTHER MEANS TO PREVENT OR CONTROL WATER INFILTRATION AT JOINTS.

E. GRADE CONDITION
   1. PROVIDE MINIMUM 8 INCH (152 MM) CLEARANCE ABOVE GRADE OR AS REQUIRED BY CODE.

F. TRIM, PROJECTING ARCHITECTURAL FEATURES AND REVEALS

   1. ALL TRIM AND PROJECTING ARCHITECTURAL FEATURES MUST HAVE A MINIMUM 1 2? SLOPE ALONG THEIR TOP SURFACE. ALL REVEALS MUST HAVE MINIMUM INCH (19 MM) INSULATION THICKNESS AT THE BOTTOM OF THE REVEAL. ALL HORIZONTAL REVEALS MUST HAVE A MINIMUM 1:2 [2? :] SLOPE ALONG THEIR BOTTOM SURFACE. INCREASE SLOPE FOR NORTHERN CLIMATES TO PREVENT ACCUMULATION OF ICE/SNOW AND WATER ON SURFACE. WHERE TRIM/FEATURE OR BOTTOM SURFACE OF REVEAL PROJECTS MORE THAN 2 INCHES (51 MM) FROM THE FACE OF THE EIFS WALL PLANE, PROTECT THE TOP SURFACE WITH WATERPROOF BASE COAT. PERIODIC INSPECTIONS AND INCREASED MAINTENANCE MAY BE REQUIRED TO MAINTAIN SURFACE INTEGRITY OF THE EIFS FINISH ON WEATHER EXPOSED SLOPED SURFACES. LIMIT PROJECTING FEATURES TO EASILY ACCESSIBLE AREAS AND LIMIT TOTAL AREA TO FACILITATE AND MINIMIZE MAINTENANCE. REFER TO STO DETAILS.
   2. DO NOT USE THE EIFS ON WEATHER EXPOSED PROJECTING LEDGES, SILLS, OR OTHER PROJECTING FEATURES UNLESS SUPPORTED BY FRAMING OR OTHER STRUCTURAL SUPPORT AND PROTECTED WITH METAL COPING OR FLASHING. REFER TO STO DETAIL 10.61.

G. INSULATION THICKNESS
   1. MINIMUM EPS INSULATION THICKNESS IS 1 INCH (25 MM).
   2. MAXIMUM EPS INSULATION THICKNESS IS 12 INCHES (305 MM), EXCEPT AS NOTED BELOW FOR FIRE-RESISTANCE RATED WALL ASSEMBLIES.

H. FIRE PROTECTION
   1. DO NOT USE EPS FOAM PLASTIC IN EXCESS OF 12 INCHES (305 MM) THICK ON TYPES I, II, III, OR IV CONSTRUCTION UNLESS APPROVED BY THE CODE OFFICIAL.
   2. WHERE A FIRE-RESISTANCE RATING IS REQUIRED BY CODE USE THE EIFS OVER A RATED CONCRETE OR CONCRETE MASONRY ASSEMBLY. LIMIT USE OVER RATED FRAME ASSEMBLIES TO NON-LOAD BEARING ASSEMBLIES (THE EIFS IS CONSIDERED NOT TO ADD OR DETRACT FROM THE FIRE-RESISTANCE OF THE RATED ASSEMBLY). MAXIMUM ALLOWABLE EPS THICKNESS 4 INCHES (102 MM).
   3. REFER TO MANUFACTURER'S TESTING OR APPLICABLE CODE COMPLIANCE REPORT FOR OTHER LIMITATIONS THAT MAY APPLY.

1.5 PERFORMANCE REQUIREMENTS

A. COMPLY WITH ASTM E 2570 (AIR/MOISTURE BARRIER) AND ASTM E 2568 (EIFS).

1.6 QUALITY ASSURANCE

A. MANUFACTURER REQUIREMENTS
   1. MEMBER IN GOOD STANDING OF THE EIFS INDUSTRY MEMBERS ASSOCIATION (EIMA)
   2. AIR/MOISTURE BARRIER AND EIFS MANUFACTURER FOR A MINIMUM OF THIRTY (30) YEARS
   3. MANUFACTURING FACILITIES ISO 9001:2008 CERTIFIED QUALITY SYSTEM AND ISO 14001:2004 CERTIFIED ENVIRONMENTAL MANAGEMENT SYSTEM
B. CONTRACTOR REQUIREMENTS
   1. ENGAGED IN APPLICATION OF SIMILAR SYSTEMS FOR A MINIMUM OF THREE (3) YEARS
   2. KNOWLEDGEABLE IN THE PROPER USE AND HANDLING OF STO MATERIALS
   3. EMPLOY SKILLED MECHANICS WHO ARE EXPERIENCED AND KNOWLEDGEABLE IN AIR/MOISTURE BARRIER AND EIFS APPLICATION, AND FAMILIAR WITH THE REQUIREMENTS OF THE SPECIFIED WORK
   4. SUCCESSFUL COMPLETION OF MINIMUM OF THREE (3) PROJECTS OF SIMILAR SIZE AND COMPLEXITY TO THE SPECIFIED PROJECT.
   5. PROVIDE THE PROPER EQUIPMENT, MANPOWER AND SUPERVISION ON THE JOB SITE TO INSTALL THE SYSTEM IN COMPLIANCE WITH STO'S PUBLISHED SPECIFICATIONS AND DETAILS AND THE PROJECT PLANS AND SPECIFICATIONS
C. INSULATION BOARD MANUFACTURER REQUIREMENTS
   1. EPS BOARD LISTED BY AN APPROVED AGENCY
   2. EPS BOARD MANUFACTURED UNDER STO LICENSING AGREEMENT AND RECOGNIZED BY STO AS BEING CAPABLE OF PRODUCING EPS INSULATION BOARD TO MEET EIFS REQUIREMENTS
   3. EPS BOARD LABELED WITH INFORMATION REQUIRED BY STO, THE APPROVED LISTING AGENCY, AND THE APPLICABLE BUILDING CODE.
D. MOCK-UP TESTING
   1. CONSTRUCT FULL-SCALE MOCK-UP OF TYPICAL AIR/MOISTURE BARRIER AND EIFS/WINDOW WALL ASSEMBLY WITH SPECIFIED TOOLS AND MATERIALS AND TEST AIR AND WATER INFILTRATION AND STRUCTURAL PERFORMANCE IN ACCORDANCE WITH ASTM E 283, ASTM E 331 AND ASTM E 330, RESPECTIVELY, THROUGH INDEPENDENT LABORATORY. MOCK-UP SHALL COMPLY WITH REQUIREMENTS OF PROJECT SPECIFICATIONS. WHERE MOCK-UP IS TESTED AT JOB SITE MAINTAIN APPROVED MOCK-UP AT SITE AS REFERENCE STANDARD. IF TESTED OFF-SITE ACCURATELY RECORD CONSTRUCTION DETAILING AND SEQUENCING OF APPROVED MOCK-UP FOR REPLICATION DURING CONSTRUCTION.
E. INSPECTIONS
   1. PROVIDE INDEPENDENT THIRD PARTY INSPECTION WHERE REQUIRED BY CODE OR CONTRACT DOCUMENTS
   2. CONDUCT INSPECTIONS IN ACCORDANCE WITH CODE REQUIREMENTS AND CONTRACT DOCUMENTS

1.7 DELIVERY, STORAGE AND HANDLING

A. DELIVER ALL MATERIALS IN THEIR ORIGINAL SEALED CONTAINERS BEARING MANUFACTURER'S NAME AND IDENTIFICATION OF PRODUCT
B. PROTECT COATINGS (PAIL PRODUCTS) FROM FREEZING AND TEMPERATURES IN EXCESS OF 90 F (32 C). STORE AWAY FROM DIRECT SUNLIGHT.
   c. PROTECT PORTLAND CEMENT BASED MATERIALS (BAG PRODUCTS) FROM MOISTURE AND HUMIDITY. STORE UNDER COVER OFF THE GROUND IN A DRY LOCATION.

1.8 PROJECT/SITE CONDITIONS

A. MAINTAIN AMBIENT AND SURFACE TEMPERATURES ABOVE 40 - F (4 C) DURING APPLICATION AND DRYING PERIOD, MINIMUM 24 HOURS AFTER APPLICATION OF AIR/MOISTURE BARRIER AND EIFS PRODUCTS
B. PROVIDE SUPPLEMENTARY HEAT FOR INSTALLATION IN TEMPERATURES LESS THAN 40 F (4 C)
C. PROVIDE PROTECTION OF SURROUNDING AREAS AND ADJACENT SURFACES FROM APPLICATION OF PRODUCTS

1.9 COORDINATION/SCHEDULING

A. PROVIDE SITE GRADING SUCH THAT THE EIFS TERMINATES ABOVE GRADE A MINIMUM OF 6 INCHES (150 MM) OR AS REQUIRED BY CODE
B. COORDINATE INSTALLATION OF FOUNDATION WATERPROOFING, ROOFING MEMBRANE, WINDOWS, DOORS AND OTHER WALL PENETRATIONS TO PROVIDE A CONTINUOUSLY CONNECTED AIR AND MOISTURE BARRIER
C. PROVIDE PROTECTION OF ROUGH OPENINGS BEFORE INSTALLING WINDOWS, DOORS, AND OTHER PENETRATIONS THROUGH THE WALL
D. INSTALL WINDOW AND DOOR HEAD FLASHING IMMEDIATELY AFTER WINDOWS AND DOORS ARE INSTALLED
E. INSTALL WATER FLASHINGS WHEREVER WATER CAN ENTER THE WALL ASSEMBLY TO DIRECT WATER TO THE EXTERIOR
F. INSTALL VOICES OR TIE-INS FROM AIR/MOISTURE BARRIER OVER BACK LEG OF FLASHINGS, STARTER TRACKS, AND SIMILAR DETAILS TO FORM A SHINGLE LAP THAT DIRECTS MOISTURE TO THE EXTERIOR
G. INSTALL COPINGS AND SEALANT IMMEDIATELY AFTER INSTALLATION OF THE EIFS WHEN COATINGS ARE DRY, AND SUCH THAT, WHERE SEALANT IS APPLIED AGAINST THE EIFS SURFACE, IT IS APPLIED AGAINST THE BASE COAT OR PRIMED BASE COAT SURFACE

   a. STO GOLD FILL - READY MIXED COATING APPLIED BY TROWEL OR KNIFE FOR ROUGH OPENING PROTECTION OF FRAME WALLS AND JOINT TREATMENT OF SHEATHING WHEN USED WITH STOGUARD MESH. ALSO USED AS A DETAIL COMPONENT WITH STOGUARD MESH TO SPLICE OVER BACK FLANGE OF STARTER TRACK, FLASHING, AND SIMILAR SHIP LAP DETAILS

H. SCHEDULE WORK SUCH THAT AIR/MOISTURE BARRIER IS EXPOSED TO WEATHER NO LONGER THAN 180 DAYS IF STO GOLD COAT IS USED, 90 DAYS IF STOGUARD MESH IS USED.
I. ATTACH PENETRATIONS THROUGH THE EIFS TO STRUCTURAL SUPPORT AND PROVIDE WATER TIGHT SEAL AT PENETRATIONS

1.10 WARRANTY

A. PROVIDE MANUFACTURER'S STANDARD WARRANTY

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. PROVIDE AIR/MOISTURE BARRIER AND EIFS COATINGS AND ACCESSORIES FROM SINGLE SOURCE MANUFACTURER OR APPROVED SUPPLIER
B. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS:
   1. STO CORP. - AIR/MOISTURE BARRIER, EIFS
   2. PLASTIC COMPONENTS, INC. - EIFS ACCESSORIES

2.2 AIR/MOISTURE BARRIER

   REFER TO FLUID APPLIED MEMBRANE AIR BARRIERS SECTION 07 27 26

2.3 ADHESIVE

A. STO TURBOSTICK - ONE COMPONENT POLYURETHANE SPRAY FOAM ADHESIVE

2.4 INSULATION BOARD

A. STO EPS INSULATION BOARD: NOMINAL 1.0 LB/FT3 (16 KG/M3) EXPANDED POLYSTYRENE (EPS) INSULATION BOARD IN COMPLIANCE WITH ASTM E 2430 AND ASTM C 578 TYPE I REQUIREMENTS AND LISTED, LABELED, AND FURNISHED IN ACCORDANCE WITH SECTION 1.6C.

2.5 BASE COAT

B. CEMENTITIOUS BASE COAT
   1. STO BTS PLUS - FACTORY BLENDED ONE COMPONENT POLYMER MODIFIED PORTLAND CEMENT BASED HIGH BUILD BASE COAT. ALSO USED AS A LEVELER FOR CONCRETE AND MASONRY SURFACES

2.6 REINFORCING MESHES

A. STANDARD MESH
   1. STO MESH - NOMINAL 4.5 OZ/YD2 (153 G/M2), SYMMETRICAL, INTERLACED OPEN-WEAVE GLASS FIBER FABRIC MADE WITH ALKALINE RESISTANT COATING FOR COMPATIBILITY WITH STO MATERIALS

2.7 PRIMER

A. STOPRIME SAND - ACRYLIC BASED TINTABLE PRIMER WITH SAND FOR ROLLER APPLICATION

2.8 FINISH COAT

A. STOUT LOTUSAN - ACRYLIC BASED TEXTURED WALL FINISH WITH GRADED MARBLE AGGREGATE AND SELF-CLEANING PROPERTIES

2.9 JOB MIXED IN

FLUID APPLIED MEMBRANE AIR BARRIER
SECTION 07 27 26

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES MATERIALS AND INSTALLATION OF VAPOR PERMEABLE FLUID APPLIED AIR AND MOISTURE BARRIER MEMBRANE OVER VERTICAL ABOVE GRADE CONCRETE WALLS, CONCRETE MASONRY WALLS, AND WALL SHEATHING.

B. RELATED SECTIONS INCLUDE THE FOLLOWING:

1.2 DEFINITIONS

A. AIR BARRIER MATERIAL: A PRIMARY ELEMENT THAT PROVIDES A CONTINUOUS BARRIER TO THE MOVEMENT OF AIR.

B. AIR BARRIER ACCESSORY: A TRANSITIONAL COMPONENT OF THE AIR BARRIER THAT PROVIDES CONTINUITY.

C. AIR BARRIER AUXILIARY MATERIAL: A TRANSITIONAL COMPONENT THAT PROVIDES AIR BARRIER CONTINUITY FURNISHED BY A SOURCE OTHER THAN THE PRIMARY AIR BARRIER MANUFACTURER.

D. AIR BARRIER ASSEMBLY: THE COLLECTION OF AIR BARRIER MATERIALS, ACCESSORY AND AUXILIARY MATERIALS APPLIED TO AN OPAQUE WALL, INCLUDING JOINTS AND JUNCTIONS TO ABUTTING CONSTRUCTION, TO CONTROL AIR MOVEMENT THROUGH THE WALL.

1.3 PRE-INSTALLATION MEETINGS

A. PRE-INSTALLATION CONFERENCE

1. REVIEW AIR BARRIER INSTALLATION REQUIREMENTS AND INSTALLATION DETAILS, MOCK-UPS, TESTING REQUIREMENTS, PROTECTION, AND SEQUENCING OF WORK.

1.4 REFERENCES

A. BUILDING CODE AND MATERIAL EVALUATION SERVICE STANDARDS

B. ASTM STANDARDS

D 4541-09 TEST METHOD FOR PULL-OFF STRENGTH OF COATINGS USING PORTABLE ADHESION TESTERS

E 84-98 TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS

E 96-00 TEST METHOD FOR WATER VAPOR TRANSMISSION OF MATERIALS

E 779-10 STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE RATE BY FAN PRESSURIZATION

E 783-02 STANDARD TEST METHOD FOR FIELD MEASUREMENT OF AIR LEAKAGE THROUGH INSTALLED EXTERIOR WINDOWS AND DOORS

E 1186-03 (2009) STANDARD PRACTICES FOR AIR LEAKAGE SITE DETECTION IN BUILDING ENVELOPES AND AIR BARRIER SYSTEMS

1E 1827-96 (2007) STANDARD TEST METHODS FOR DETERMINING AIR TIGHTNESS OF BUILDINGS USING AN ORIFICE BLOWER DOOR

1E 2178-03 TEST METHOD FOR AIR PERMEANCE OF BUILDING MATERIALS.

15.E 2357-05 STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE OF AIR BARRIER ASSEMBLIES

C. AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC. (ASHRAE): 2005 ASHRAE HANDBOOK FUNDAMENTALS ASHRAE 90.1 2016, ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS

D. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) NFPA 285 STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR NON-LOAD-BEARING WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS

E. SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1113 (2007) ARCHITECTURAL COATINGS

1.5 COORDINATION/SCHEDULING

A. COORDINATE INSTALLATION OF FOUNDATION WATERPROOFING, ROOFING MEMBRANE, WINDOWS, DOORS AND OTHER WALL PENETRATIONS TO PROVIDE A CONTINUOUS AIR BARRIER.

B. PROVIDE PROTECTION OF ROUGH OPENINGS BEFORE INSTALLING WINDOWS, DOORS, AND OTHER PENETRATIONS THROUGH THE WALL.

C. PROVIDE SILL FLASHING TO DIRECT WATER TO THE EXTERIOR BEFORE WINDOWS AND DOORS ARE INSTALLED.

D. INSTALL WINDOW AND DOOR HEAD FLASHING IMMEDIATELY AFTER WINDOWS AND DOORS ARE INSTALLED.

E. INSTALL DIVERTER FLASHINGS WHEREVER WATER CAN ENTER THE ASSEMBLY TO DIRECT WATER TO THE EXTERIOR.

F. INSTALL PARAPET CAP FLASHING AND SIMILAR FLASHING AT COPINGS AND SILLS TO PREVENT WATER ENTRY INTO THE WALL ASSEMBLY.

G. INSTALL CLADDING WITHIN 180 DAYS OF AIR AND MOISTURE BARRIER INSTALLATION.

SUBMITTALS

A. MANUFACTURER'S SPECIFICATIONS, DETAILS AND PRODUCT DATA.

B. MANUFACTURER'S STANDARD WARRANTY.

C. MANUFACTURER'S ICC EVALUATION REPORT CONFIRMING COMPLIANCE WITH THE IBC, IRC, AND IECC AS AN AIR BARRIER AND WATER-RESISTIVE BARRIER.

D. SAMPLES FOR APPROVAL AS DIRECTED BY ARCHITECT OR OWNER.

E. SHOP DRAWINGS: SUBSTRATE JOINTS, CRACKS, FLASHING TRANSITIONS, PENETRATIONS, CORNERS, TERMINATIONS, AND TIE-INS WITH ADJOINING CONSTRUCTION, AND INTERFACES WITH SEPARATE MATERIALS THAT FORM PART OF THE AIR BARRIER ASSEMBLY.

1.8 QUALITY ASSURANCE

A. MANUFACTURER REQUIREMENTS

1. MANUFACTURER OF EXTERIOR WALL AIR AND MOISTURE BARRIER MATERIALS FOR A MINIMUM OF 30 YEARS IN NORTH AMERICA.

2. ISO 9001:2008 CERTIFIED QUALITY SYSTEM AND ISO 14001:2004 CERTIFIED ENVIRONMENTAL MANAGEMENT SYSTEM.

B. CONTRACTOR REQUIREMENTS

1. KNOWLEDGEABLE IN THE PROPER USE AND HANDLING OF STO MATERIALS.

2. EMPLOY SKILLED MECHANICS WHO ARE EXPERIENCED AND KNOWLEDGEABLE IN WATERPROOFING AND AIR BARRIER APPLICATION, AND FAMILIAR WITH THE REQUIREMENTS OF THE SPECIFIED WORK.

3. PROVIDE THE PROPER EQUIPMENT, MANPOWER AND SUPERVISION ON THE JOB-SITE TO INSTALL THE AIR BARRIER ASSEMBLY IN COMPLIANCE WITH THE PROJECT PLANS & SPECIFICATIONS, SHOP DRAWINGS, AND STO'S PUBLISHED SPECIFICATIONS AND DETAILS.

C. REGULATORY COMPLIANCE

1. PRIMARY AIR BARRIER AND JOINT TREATMENT REINFORCEMENT MATERIALS.

a. LISTED BY IBC AND RECOGNIZED FOR USE ON ALL TYPES OF CONSTRUCTION. REFER TO ICC ESR 1233 FOR LIMITATIONS.

b. COMPLY WITH VOC REQUIREMENTS OF SCAQMD RULE 1113.

c. COMPLY WITH AIR BARRIER MATERIAL REQUIREMENTS OF ASHRAE 90.1 - 2010, 2013

d. COMPLY WITH AIR BARRIER MATERIAL REQUIREMENTS OF ASHRAE 189.1 - 2009

e. COMPLY WITH 2012 AND 2015 IRC REQUIREMENT FOR A CONTINUOUS AIR BARRIER

f. COMPLY WITH AIR BARRIER MATERIAL REQUIREMENTS OF 2012 AND 2015 IBC AND IECC.

D. MOCK-UPS

1. BUILD STAND-ALONE SITE MOCK UP OR SAMPLE WALL AREA ON AS-BUILT CONSTRUCTION TO INCORPORATE BACK-UP WALL CONSTRUCTION, TYPICAL DETAILS COVERING SUBSTRATE JOINTS, CRACKS, FLASHING TRANSITIONS, PENETRATIONS, CORNERS, TERMINATIONS, TIE-INS WITH ADJOINING CONSTRUCTION, AND INTERFACES WITH SEPARATE MATERIALS THAT FORM PART OF THE AIR BARRIER ASSEMBLY

1.9 PRE-CONSTRUCTION TESTING

A. CONDUCT TESTING BY QUALIFIED TEST AGENCY OR BUILDING ENVELOPE CONSULTANT.

1. CONDUCT ASSEMBLY AIR LEAKAGE TESTING IN ACCORDANCE WITH ASTM E 783.

2. CONDUCT ADHESION TESTING TO SUBSTRATES IN ACCORDANCE WITH ASTM D 4541.

3. CONDUCT WET SEALANT COMPATIBILITY TESTING IN ACCORDANCE WITH SEALANT MANUFACTURER'S FIELD QUALITY CONTROL TEST PROCEDURE.

4. NOTIFY DESIGN PROFESSIONAL MINIMUM 7 DAYS PRIOR TO TESTING.

1.10 DELIVERY, STORAGE AND HANDLING

A. DELIVER ALL MATERIALS IN THEIR ORIGINAL SEALED CONTAINERS BEARING MANUFACTURER'S NAME AND IDENTIFICATION OF PRODUCT.

B. PROTECT COATINGS (PAIL PRODUCTS) FROM FREEZING TEMPERATURES AND TEMPERATURES IN EXCESS OF 90 DEGREES F (32 DEGREES C). STORE AWAY FROM DIRECT SUNLIGHT.

C. PROTECT PORTLAND CEMENT BASED MATERIALS (BAG PRODUCTS) FROM MOISTURE AND HUMIDITY. STORE UNDER COVER OFF THE GROUND IN A DRY LOCATION.

D. PROTECT AND STORE ACCESSORY AND AUXILIARY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

1.11 PROJECT/SITE CONDITIONS

A. MAINTAIN AMBIENT AND SURFACE TEMPERATURES ABOVE 40 DEGREES F (4 DEGREES C) DURING APPLICATION AND DRYING PERIOD, MINIMUM 24 HOURS AFTER APPLICATION OF AIR AND MOISTURE BARRIER MATERIALS.

B. PROVIDE SUPPLEMENTARY HEAT FOR INSTALLATION IN TEMPERATURES LESS THAN 40 DEGREES F (4 DEGREES C) OR IF SURFACE TEMPERATURE IS LIKELY TO FALL BELOW 40 DEGREES F (4 DEGREES C).

C. PROVIDE PROTECTION OF SURROUNDING AREAS AND ADJACENT SURFACES FROM APPLICATION OF MATERIALS.

1.12 WARRANTY

A. PROVIDE MANUFACTURER'S STANDARD WARRANTY.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. PRODUCTS: VAPOUR PERMEABLE AIR BARRIER MEMBRANE, SELF ADHERED FOR [RAIN SCREEN SYSTEMS] [SLOPED ROOFING] TRIPLE LAYER SPUNBONDED POLYPROPYLENE WITH A NOMINAL THICKNESS OF 0.60MM (24 MILS) AND WATER VAPOUR TRANSMISSION OF 1373 NG/PA.S.M2 (24 PERMS) AS PER ASTM E96 METHOD B. MEMBRANES MUST COMPLY WITH THE CANADIC S741-08 AND THE MEMBRANE SYSTEM MUST COMPLY WITH CAN/ULC S742-11 AND HAVE AN AIR LEAKAGE RATE CLASSIFICATION OF A1 AT A 1 IN 50 HOURLY WIND PRESSURE DIFFERENCE OF 650PA, 12 METRES ABOVE GRADE). SRP AIROUTSHIELD SA280 1 866 533 0233 WWW.SPRCANADA.CA

B. COLOUR: BLACK

2.2 MATERIALS

A. PRIMARY AIR BARRIER MATERIAL: STOGUARD WITH STO EMERALDCOAT - READY-MIXED FLEXIBLE SPRAY OR ROLLER APPLIED AIR AND MOISTURE BARRIER MATERIAL.

B. ACCESSORY MATERIALS

1. SHEATHING JOINT TREATMENTS

a. STO RAPIDGUARD : ONE COMPONENT STPE RAPID DRYING GUN-APPLIED TREATMENT FOR SHEATHING JOINTS, ROUGH OPENINGS, SEAMS, CRACKS, PENETRATIONS AND OTHER TRANSITIONS IN ABOVE GRADE WALL CONSTRUCTION.

2. ROUGH OPENING TREATMENTS

a. STO RAPIDGUARD : ONE COMPONENT STPE RAPID DRYING GUN-APPLIED TREATMENT FOR SHEATHING JOINTS, ROUGH OPENINGS, SEAMS, CRACKS, PENETRATIONS AND OTHER TRANSITIONS IN ABOVE GRADE WALL CONSTRUCTION.

3. TRANSITION DETAIL COMPONENTS

a. STOGUARD TRANSITION MEMBRANE: FLEXIBLE AIR AND MOISTURE BARRIER MEMBRANE FOR CONTINUITY ACTS AS TRANSITIONS: SHEATHING TO FOUNDATION, DISSIMILAR MATERIALS (CMU TO FRAME WALL), WALL TO BALCONY FLOOR SLAB OR CEILING, AND SHINGLE LAP TRANSITIONS TO FLASHING. ALSO USED FOR DYNAMIC JOINTS: FLOOR LINE DEFLECTION JOINTS, MASONRY CONTROL JOINTS, AND THROUGH WALL JOINTS IN MASONRY OR FRAME CONSTRUCTION.

4. PRIMERS

a. STOGUARD PRIMER: RUBBER RESIN EMULSION PRIMER FOR USE WITH STOGUARD TAPE TO ENHANCE ADHESION.

C. AUXILIARY MATERIALS

1. WET SEALANT: DOW CORNING 758, 790, 791, AND 795 SEALANTS

2. PRE-CURED SEALANT TAPE: DOW 123

3. SPRAY ADHESIVE: 3M SUPER 77 SPRAY ADHESIVE

4. SPRAY FOAM: DOW GREAT STUFF FOR GAPS AND CRACKS

D. PATCH AND LEVELING MATERIAL FOR CONCRETE AND MASONRY

1. STO LEVELER: POLYMER MODIFIED CEMENTITIOUS PATCH AND LEVELING MATERIAL FOR PREPARED CONCRETE AND MASONRY SURFACES FOR LEVELING UP TO 1/4 INCH (6 MM).

2. STO BTS-XTRA: POLYMER MODIFIED LIGHTWEIGHT CEMENTITIOUS PATCH AND LEVELING MATERIAL FOR PREPARED CONCRETE AND MASONRY SURFACES FOR LEVELING UP TO 1/8 INCH (3 MM).

3. SHEATHING: PROVIDE GYPSUM SHEATHING IN COMPLIANCE WITH ASTM C 1177, PROVIDE APA EXTERIOR OR EXPOSURE 1 WOOD-BASED SHEATHING, AND PROVIDE SHEATHING THAT MEETS REQUIRED DESIGN WIND PRESSURES.

E. MECHANICAL VENTILATION: MAINTAIN PRESSURIZATION AND INDOOR HUMIDITY LEVELS IN ACCORDANCE WITH RECOMMENDATIONS OF ASHRAE (SEE 2005 ASHRAE HANDBOOK--FUNDAMENTALS).

PART 3 EXECUTION

3.1 EXAMINATION

A. INSPECT CONCRETE AND CONCRETE MASONRY SURFACES FOR:

1. CONTAMINATION - ALGAE, DIRT, DUST, EFFLORESCENCE, FORM OIL, FUNGUS, GREASE, MILDEW OR OTHER FOREIGN SUBSTANCES.

2. SURFACE DEFICIENCIES - WEAK, FRIABLE, CHALKINESS, LAITANCE, BUGHOLES, AND SPALLS.

3. CRACKS - MEASURE CRACK WIDTH AND RECORD LOCATION OF CRACKS.

4. DAMAGE OR DETERIORATION.

5. MOISTURE CONTENT AND MOISTURE DAMAGE - USE A MOISTURE METER TO DETERMINE IF THE SURFACE IS DRY ENOUGH TO APPLY THE WATERPROOFING. DOCUMENT AND RECORD ANY AREAS OF MOISTURE DAMAGE OR EXCESS MOISTURE.

6. FLUSH MASONRY MORTAR JOINTS COMPLETELY FILLED WITH MORTAR.

B. INSPECT SHEATHING APPLICATION FOR COMPLIANCE WITH APPLICABLE REQUIREMENTS:

1. EXTERIOR GRADE AND EXPOSURE I WOOD BASED SHEATHING: E30U-2007, ENGINEERED WOOD CONSTRUCTION GUIDE, AND THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

2. GLASS MAT FACED GYPSUM SHEATHING IN COMPLIANCE WITH ASTM C 1177: CONSULT MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND ICC ES REPORT, CONFORM WITH PROJECT REQUIREMENTS FOR WIND LOAD RESISTANCE.

3. CEMENTITIOUS SHEATHING - CONSULT MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND ICC ES REPORT. CONFORM WITH PROJECT REQUIREMENTS FOR WIND LOAD RESISTANCE.

C. REPORT DEVIATIONS FROM THE REQUIREMENTS OF PROJECT SPECIFICATIONS OR OTHER CONDITIONS THAT MAY ADVERSELY AFFECT THE AIR AND MOISTURE BARRIER INSTALLATION. DO NOT START WORK UNTIL DEVIATIONS ARE CORRECTED.

3.2 SURFACE PREPARATION

A. CONCRETE MASONRY

1. SURFACE MUST BE STRUCTURALLY SOUND AND FREE OF WEAK OR DAMAGED SURFACE CONDITIONS SUCH AS LAITANCE OR SPALLS. SURFACE MUST BE CLEAN, DRY, FROST-FREE, AND FREE OF ANY BOND-INHIBITING MATERIALS SUCH AS DUST, DIRT, OIL, ALGAE, MILDEW, SALTS, EFFLORESCENCE, OR ANY OTHER SURFACE CONTAMINATION. MORTAR JOINTS MUST BE STRUCK FLUSH WITH THE SURFACE.

2. REMOVE EXCESS MORTAR FROM MASONRY TIES, LINTELS AND SHELF ANGLES.

3. REMOVE LOOSE OR DAMAGED MATERIAL BY WATER-BLASTING, SANDBLASTING OR MECHANICAL WIRE BRUSHING. REMOVE FORM RELEASE BY CHEMICAL OR MECHANICAL MEANS. REPAIR SURFACE DEFECTS SUCH AS HONEYCOMBS, PITTING, SPALLS, VOIDS OR HOLES WITH STO BTS XTRA (UP TO 1/8 INCH [3 MM] THICK) OR STO LEVELER (UP TO 3/8 INCH [9 MM] THICK).

4. REPAIR NON-STRUCTURAL CRACKS UP TO 1/8 INCH (3 MM) WIDE BY RAKING WITH A SHARP TOOL TO REMOVE LOOSE, FRIABLE MATERIAL AND BLOW CLEAN WITH OIL-FREE COMPRESSED AIR. APPLY JOINT TREATMENT MATERIAL OVER CRACK, EMBED REINFORCEMENT (WHERE APPLICABLE), AND SMOOTH JOINT TREATMENT MATERIAL WITH A TROWEL, DRYWALL OR PUTTY KNIFE TO COVER THE REINFORCEMENT.

C. SHEATHING

1. REMOVE AND REPLACE DAMAGED SHEATHING.

2. SPOT SURFACE DEFECTS SUCH AS OVER-DRIVEN FASTENERS, KNOT VOIDS, OR OTHER VOIDS IN SHEATHING WITH KNIFE GRADE JOINT TREATMENT MATERIAL.

3. SPOT FASTENERS WITH KNIFE GRADE OR COATING JOINT TREATMENT MATERIAL.

3.3 INSTALLATION

3.3.1 AIR/MOISTURE BARRIER INSTALLATION OVER EXTERIOR OR EXPOSURE I WOOD-BASED SHEATHING (PLYWOOD AND OSB), GLASS MAT FACED GYPSUM SHEATHING IN COMPLIANCE WITH ASTM C 1177, CONCRETE, AND CONCRETE MASONRY (CMU) WALL CONSTRUCTION

A. LOCATE WORK WITH OTHER TRADES TO ENSURE AIR BARRIER CONTINUITY WITH CONNECTIONS AT FOUNDATION, FLOOR LINES, FLASHINGS, LINTELS/SHELF ANGLES, OPENINGS AND PENETRATIONS SUCH AS PIPES, VENTS, WINDOWS AND DOORS, MASONRY ANCHORS, RAFTERS OR BEAMS, JOINTS IN CONSTRUCTION, PROJECTIONS SUCH AS DECKS AND BALCONIES, AND ROOF LINE.

B. TRANSITION DETAILING: DETAIL TRANSITION AREAS WITH STO RAPIDGUARD OR STOGUARD TRANSITION MEMBRANE TO ACHIEVE AIR BARRIER CONTINUITY. FOR ILLUSTRATIONS OF INSTALLATION, REFER TO STO GUIDE DETAILS AND STO RAPIDGUARD INSTALLATION GUIDE OR STOGUARD TRANSITION MEMBRANE INSTALLATION GUIDE (WWW.STOCORP.COM).

C. ROUGH OPENING PROTECTION

1. INSTALL ROUGH OPENING PROTECTION. REFER TO STO DETAILS AND APPLICABLE STO PRODUCT BULLETINS.

D. SHEATHING JOINTS

1. INSTALL JOINT TREATMENT MATERIAL SHEATHING JOINTS. REFER TO STO DETAILS AND APPLICABLE STO PRODUCT BULLETINS.

E. AIR AND MOISTURE BARRIER COATING

1. CONCRETE - INSTALL ONE COAT OF STO EMERALDCOAT BY SPRAY OR ROLLER IN A UNIFORM, CONTINUOUS WET FILM OF 10 MILS TO THE PREPARED CONCRETE SUBSTRATE. DO NOT INSTALL OVER WORKING OR MOVING JOINT SEALANTS.

2. CONCRETE MASONRY - INSTALL ONE LIBERAL COAT OF STO EMERALDCOAT BY SPRAY OR ROLLER IN A UNIFORM, CONTINUOUS FILM TO THE PREPARED CONCRETE MASONRY SUBSTRATE. BACKROLL SPRAY APPLICATIONS. ALLOW TO DRY. INSTALL A SECOND LIBERAL COAT IN A UNIFORM, CONTINUOUS FILM, AND BACKROLL SPRAY APPLICATIONS, TO ACHIEVE A VOID AND PINHOLE FREE SURFACE. DEPENDING ON THE CONDITION OF THE SURFACE A MINIMUM OF 10 WET MILS UP TO A MAXIMUM OF 30 WET MILS MAY BE REQUIRED. APPLY ADDITIONAL COATS IF NEEDED TO ACHIEVE A VOID AND PINHOLE FREE SURFACE. DO NOT INSTALL OVER WORKING OR MOVING JOINT SEALANTS.

3. SHEATHING

a. GLASS MAT FACED GYPSUM SHEATHING: INSTALL ONE COAT OF STO EMERALDCOAT BY SPRAY OR ROLLER IN A UNIFORM, CONTINUOUS FILM OF 10 WET MILS TO THE PREPARED GLASS MAT GYPSUM SUBSTRATE TO ACHIEVE A VOID AND PINHOLE FREE SURFACE. DO NOT INSTALL OVER WORKING OR MOVING JOINT SEALANTS.

b. PLYWOOD SHEATHING: INSTALL ONE COAT OF STO EMERALDCOAT BY SPRAY OR ROLLER IN A UNIFORM, CONTINUOUS FILM OF 10 WET MILS TO THE PREPARED SUBSTRATE TO ACHIEVE A VOID AND PINHOLE FREE SURFACE. DO NOT INSTALL OVER WORKING OR MOVING JOINT SEALANTS.

c. OSB SHEATHING: INSTALL ONE COAT OF STO EMERALDCOAT BY SPRAY OR ROLLER IN A UNIFORM, CONTINUOUS FILM OF 10 WET MILS TO THE PREPARED SUBSTRATE AND TO A VOID AND PINHOLE FREE SURFACE. INSPECT SURFACE AND TOUCH-UP WITH A SECOND COAT AT RAISED WOOD STRANDS. DO NOT INSTALL OVER WORKING OR MOVING JOINT SEALANTS.

3.4 FIELD QUALITY CONTROL

A. OWNER'S QUALIFIED TESTING AGENCY OR BUILDING ENVELOPE CONSULTANT SHALL PERFORM INSPECTIONS AND TESTS.

B. INSPECTIONS: AIR BARRIER MATERIALS ARE SUBJECT TO INSPECTION TO VERIFY COMPLIANCE WITH REQUIREMENTS.

1. CONDITION OF SUBSTRATES AND SUBSTRATE PREPARATION.

2. INSTALLATION OF PRIMARY AIR BARRIER MATERIAL, ACCESSORY MATERIALS, AND COMPATIBLE AUXILIARY MATERIALS OVER STRUCTURALLY SOUND SUBSTRATES AND IN CONFORMANCE WITH ARCHITECTURAL DESIGN DETAILS, CONTRACTOR'S SHOP DRAWINGS, PROJECT MOCK-UP, AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

3. AIR BARRIER CONTINUITY AND CONNECTIONS WITHOUT GAPS AND HOLES AT FOUNDATION, FLOOR LINES, FLASHINGS, LINTELS AND SHELF ANGLES, OPENINGS AND PENETRATIONS SUCH AS PIPES, VENTS, WINDOWS AND DOORS, MASONRY ANCHORS, RAFTERS OR BEAMS, JOINTS IN CONSTRUCTION, PROJECTIONS SUCH AS DECKS AND BALCONIES, AND ROOF LINE.

C. TESTS: AIR BARRIER MATERIALS AND ASSEMBLY ARE SUBJECT TO TESTS TO VERIFY COMPLIANCE WITH PERFORMANCE REQUIREMENTS.

1. QUALITATIVE AIR LEAKAGE TEST: ASTM E 1186

2. QUANTITATIVE AIR LEAKAGE TEST: ASTM E 779, E 783, AND E 1827

3. ADHESION TEST: ASTM D 4541

4. QUALITATIVE ADHESION AND COMPATIBILITY TESTING: WET SEALANT MANUFACTURER'S FIELD QUALITY CONTROL ADHESION TEST

D. REPAIR NON-CONFORMING SUBSTRATES AND AIR BARRIER MATERIAL INSTALLATION TO CONFORM WITH PROJECT REQUIREMENTS.

E. TAKE CORRECTIVE ACTION TO REPAIR AND REPLACE, REINSTALL, SEAL OPENINGS, GAPS, OR OTHER SOURCES OF AIR LEAKAGE TO ENSURE COMPLIANCE WITH PROJECT PERFORMANCE REQUIREMENTS.

3.5 PROTECTION AND CLEANING

A. PROTECT AIR BARRIER MATERIALS FROM DAMAGE DURING CONSTRUCTION CAUSED BY WIND, RAIN, FREEZING, CONTINUOUS HIGH-HUMIDITY, OR PROLONGED EXPOSURE TO SUN LIGHT.

B. PROTECT AIR BARRIER MATERIALS FROM DAMAGE FROM TRADES, VANDALS, AND WATER INFILTRATION DURING CONSTRUCTION.

C. REPAIR DAMAGED MATERIALS TO MEET PROJECT SPECIFICATION REQUIREMENTS.

D. CLEAN SPILLS, STAINS, SOILING FROM FINISHES OR OTHER CONSTRUCTION MATERIALS THAT WILL BE EXPOSED IN THE COMPLETED WORK WITH COMPATIBLE CLEANERS.

E. REMOVE ALL MASKING MATERIALS AFTER WORK IS COMPLETED.

ATTENTION

END OF SECTION 07 27 26

EXTRUDED ALUMINUM SIDING
SECTION 07 46 16

PART 1 GENERAL

1.1 PERFORMANCE REQUIREMENTS

A. COMPONENTS: DESIGN AND SIZE COMPONENTS TO WITHSTAND DEAD AND LIVE LOADS CAUSED BY POSITIVE AND NEGATIVE WIND PRESSURE ACTING NORMAL TO PLANE OF WALLS AS CALCULATED IN ACCORDANCE WITH APPLICABLE CODE.

B. MOVEMENT: ACCOMMODATE MOVEMENT WITHIN SYSTEM WITHOUT DAMAGE TO COMPONENTS OR MOVEMENT WITHIN SYSTEM. MOVEMENT BETWEEN SYSTEM AND PERIMETER COMPONENTS WHEN SUBJECT TO SEASONAL TEMPERATURE CYCLING; DYNAMIC LOADING AND RELEASE OF LOADS; DEFLECTION OF STRUCTURAL SUPPORT FRAMING.

C. DRAINAGE: PROVIDE POSITIVE DRAINAGE TO EXTERIOR FOR MOISTURE OR CONDENSATION OCCURRING WITHIN PANEL SYSTEM.

1.1 SUBMITTALS

A. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:

1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.

2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.

3. INSTALLATION METHODS.

B. SHOP DRAWINGS: INDICATE DIMENSIONS, LAYOUT, JOINTS, EXPANSION JOINTS, CONSTRUCTION DETAILS, METHODS OF ANCHORAGE AND INTERFACE WITH ADJACENT MATERIALS.

C. SELECTION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO COMPLETE SETS OF COLOR CHIPS REPRESENTING THE MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS AND PATTERNS.

D. VERIFICATION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO SAMPLES, MINIMUM SIZE 2 INCHES (51MM) BY 3-1/2 INCHES (89MM), REPRESENTING ACTUAL PRODUCT, COLOR AND GLOSS.

E. MANUFACTURER'S CERTIFICATES: CERTIFY PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.

F. CLOSEOUT SUBMITTALS: PROVIDE MANUFACTURER'S MAINTENANCE INSTRUCTIONS THAT INCLUDE RECOMMENDATIONS FOR PERIODIC CLEANING AND MAINTENANCE OF COMPONENTS.

1.2 QUALITY ASSURANCE

A. MANUFACTURER'S QUALIFICATIONS: MINIMUM TEN YEARS' EXPERIENCE IN PRODUCING ALUMINUM FINISHES OF THE TYPES SPECIFIED IN AAMA 2604 AND 2605 CERTIFIED.

B. INSTALLER: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.

C. MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIP.

1. FINISH AREAS DESIGNED BY ARCHITECT.

2. DO NOT PROCEED WITH REMAINING WORK UNTIL WORKMANSHIP, COLOR, AND GLOSS ARE APPROVED BY ARCHITECT.

3. REFINISH MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK.

1.3 DELIVERY, STORAGE, AND HANDLING

A. PACKAGE AND STORE PRODUCTS UNDER COVER IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR TRANSPORT AND INSTALLATION.

B. PROTECT PANELS FROM ACCELERATED WEATHERING BY REMOVING OR VENTING SHEET PLASTIC SHIPPING WRAP.

C. STORE PREFINISHED MATERIAL OFF GROUND PROTECTED FROM WEATHER, TO PREVENT TWISTING, BENDING, OR ABRASION, AND PROVIDE VENTILATION. SLOP METAL SHEETS TO ENSURE DRAINAGE.

D. PREVENT CONTACT WITH MATERIALS CAPABLE OF CAUSING DISCOLORATION OR STAINING.

1.4 PROJECT CONDITIONS

A. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT FABRICATE PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.

1.5 COORDINATION

A. COORDINATE WORK WITH INSTALLATION OF WINDOWS, LOUVERS, AND ADJACENT COMPONENTS OR MATERIALS.

1.6 WARRANTY

A. KNOTWOOD'S LIMITED LIFETIME WARRANTY AGAINST CRACKING, PEELING AND GLOSS/COLOR RETENTION WITHIN THE GUIDELINES STATED BY THE AMERICAN ALUMINUM MANUFACTURERS ASSOCIATION LIMITS.

1. STANDARD COLORS

a. DULUX DURATEC - AAMA 2604 (5 YEAR FLORIDA) 15 YEAR MANUFACTURER'S WARRANTY.

b. DULUX FLUOROSET - AAMA 2605 (10 YEAR FLORIDA) 20 YEAR MANUFACTURER'S WARRANTY.

2. WOOD GRAINS

a. AAMA 2064 (5 YEAR FLORIDA) 15 YEAR MANUFACTURER'S WARRANTY.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. ACCEPTABLE MANUFACTURER: KNOTWOOD LLC ., WHICH IS LOCATED AT: 10914 NE 39TH' STREET SUITE B-3

VANCOUVER, WA 98682 INFO AT SALES@KNOTWOOD.COM WEB: WWW.KNOTWOOD.COM .

B. SUBSTITUTIONS:

C. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF SECTION 01600.

2.2 MATERIALS

A. EXTRUDED ALUMINUM SIDING AND SOFFITS: KNOTWOOD WOOD GRAIN ALUMINUM SIDING AND SOFFITS WITH ALUMINATE BONDED FILM FINISH IS EXTRUDED ALUMINUM.

B. EXTRUDED ALUMINUM VENTED SOFFIT: KNOTWOOD WOOD GRAIN ALUMINUM VENTED SOFFITS WITH ALUMINATE BONDED FILM FINISH IS EXTRUDED ALUMINUM.

C. EXTRUDED ALUMINUM ACCESSORIES AND TRIM: KNOTWOOD WOOD GRAIN ALUMINUM TRIM AND ACCESSORIES WITH ALUMINATE BONDED FILM FINISH IS EXTRUDED ALUMINUM.

D. EXTRUDED ALUMINUM SHUTTER BLADE, SLAT, SMALL INFILL, AND FIXED LOUVER SECTIONS: KNOTWOOD WOOD GRAIN ALUMINUM TRIM AND ACCESSORIES WITH ALUMINATE BONDED FILM FINISH IS EXTRUDED ALUMINUM.

2.3 FINISHES

A. PRETREATMENT: E-CLPS CHROME FREE FIVE STAGER ALUMINUM PRETREATMENT SYSTEM, COMPLIES WITH, AAMA 2604, AND AAMA 2605 SUPERIOR PERFORMANCE STANDARD AND MEETS EPA, OSHA, STATE AND LOCAL ENVIRONMENTAL REQUIREMENTS AND CONTAINS NO CHROMATES, CYANIDES, OR OTHER HEAVY METALS. WASTE TREATMENT IS USUALLY A SIMPLE PH NEUTRALIZATION AND DISPOSAL TO THE SANITARY SEWER.

B. DULUX GROUP MANNEX BASE COAT AND DURATEC SERIES ELECTROSTATIC APPLIED ARCHITECTURAL POWDER COATINGS ARE APPROVED TO AAMA 2604 PERFORMANCE STANDARD.

1. GLOSS LEVEL: STANDARD GLOSS IS 30 PERCENT, PLUS OR MINUS 5 PERCENT.

C. SUPER DURABLE POWDER COATINGS: ALLUMINATE PREMIUM WOOD FINISHES USE A POLYURETHANE POWDER COAT WITH INK BASED WOOD GRAIN PATTERNS SUBLIMATED INTO THE BASE POWDER EFFECTIVELY TATTOOING THE POWDER. THE COMBINED EFFECT CREATES ALL THE AESTHETIC ASPECTS OF REAL WOOD WHILE EXTENDING THE SAME ENVIRONMENTAL ADVANTAGES OF POWDER COATED FINISHES.

1. WOOD GRAINED CUSTOM FINISH AS APPROVED BY CLIENT.

2.4 FABRICATION

A. PREPARE SURFACES, PRE-TREAT AND COAT COMPONENTS IN ACCORDANCE WITH AAMA 2604 AND 2605 QUALITY STANDARDS AND APPLICABLE EUROPEAN STANDARDS FOR THE COATING MATERIAL SPECIFIED.

B. WRAP AND PACKAGE COATED COMPONENTS USING METHODS SUITABLE FOR TRANSIT AND COVERED SITE STORAGE WITHOUT DAMAGE.

P

SHEET METAL FLASHING AND TRIM SECTION 07 62 00

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. COUNTER FLASHINGS: FRY REGLET: TYPE M-A MASONRY SPRINGLOCK FLASHING OR CHENEY: TYPE B, SNAPLOCK SYSTEM OR CKEEFFES, INC.: TYPE M, MASONRY REGLET.

B. PARAPET CAP/COPINGS: PAC-CLAD PETERSON ALUMINUM: PAC-CONTINUOUS CLEAT COPING.

C. VENTED SOFFIT: DIMENSIONAL METALS, INC. OR PETERSON ALUMINUM CORPORATION OR ATLAS ALUMINUM, INC.

2.2 SHEET METAL FLASHING AND TRIM MATERIALS

A. ZINC-COATED STEEL: COMMERCIAL QUALITY WITH 0.20 PERCENT COPPER, ASTM A525, EXCEPT ASTM A527 FOR LOCK FORMING, G90 HOT-DIPPED GALVANIZED, MILL PHOSPHATISED WHERE INDICATED FOR PAINTING.

B. MATERIAL GAUGES TO BE AS FOLLOWS:

4. METAL FLASHING: 26 GA.

5. METAL CAP/COPING: 24 GA.

6. MISCELLANEOUS TRIM: 24 GA.

7. LOUVER RAIN HOODS: 22 GA.

C. ALL FLASHINGS AND COPINGS TO BE SELF-LOCKING WITH PERMANENT HOLD-DOWN CLIPS. ALL EXPOSED EDGES TO BE HEMMED.

D. ALL EXPOSED METALS SHALL BE PRE-FINISHED IN "KYNAR 500" AND SHALL HAVE A 20 YEARS PAINT WARRANTY. COLOR: AS INDICATED ON DRAWINGS OR AS CHOSEN BY ARCHITECT FROM MANUFACTURER'S STANDARD SELECTION.

2.3 MISCELLANEOUS MATERIALS AND ACCESSORIES

A. SOLDER: FOR USE WITH STEEL OR COPPER, PROVIDE 50-50 TIN/LEAD SOLDER (ASTM B32), WITH ROSIN FLUX.

B. FASTENERS: SAME METAL AS FLASHING /SHEET METAL OR OTHER NON-CORROSIVE METAL AS RECOMMENDED BY SHEET METAL FABRICATOR. MATCH FINISH OF EXPOSED HEADS WITH MATERIAL BEING FASTENED.

C. BITUMINOUS COATING: SSPC - PAINT 12, SOLVENT TYPE BITUMINOUS MASTIC, NOMINALLY FREE OF SULFUR, COMPOUNDED OF 5% MIL DRY FILM THICKNESS PER COAT.

D. MASTIC SEALANT: POLYISOBUTYLENE; NON-HARDENING, NON-SKINNING, NON-DRYING, NON-MIGRATING SEALANT.

E. ELASTOMERIC SEALANT: GENERIC TYPE RECOMMENDED BY MANUFACTURER OF METAL AND FABRICATED COMPONENTS BEING SEALED AND COMPLYING WITH REQUIREMENTS FOR JOINT SEALANTS AS SPECIFIED IN DIVISION 7 - SEALANTS.

F. EPOXY SEAM SEALER: TWO-PART NON-CORROSIVE METAL SEAM CEMENTING COMPOUND, RECOMMENDED BY THE METAL FABRICATOR AND NOT INJURIOUS TO EXTERIOR/INTERIOR NON-MOVING JOINTS INCLUDING RIVETED JOINTS.

G. ADHESIVE: TYPE RECOMMENDED BY FLASHING SHEET MANUFACTURER FOR WEATHERPROOF/WATER-RESISTANT SEAMING AND ADHESIVE APPLICATION FOR FLASHING SHEET.

H. PAPER SLIP SHEET: 5-LB. ROSIN - SIZED BUILDING PAPER.

I. POLYETHYLENE UNDERLAYMENT: MINIMUM 6 MIL CARBONATED POLYETHYLENE FILM; RESISTANT TO DECAY WHEN TESTED IN ACCORDANCE WITH ASTM D 4.

J. REGLETS: METAL UNITS OF TYPE AND PROFILE INDICATED, COMPATIBLE WITH FLASHING INDICATED, NON-CORROSIVE.

K. METAL ACCESSORIES: PROVIDE SHEET METAL CLIPS, STRAPS, ANCHORING DEVICES, AND SIMILAR ACCESSORY UNITS AS REQUIRED FOR INSTALLATION OF WORK, MATCHING OR COMPATIBLE WITH MATERIAL BEING INSTALLED, NON-CORROSIVE, SIZE, AND GAUGE REQUIRED FOR SECURE PERFORMANCE.

L. ELASTIC FLASHING FILLER: CLOSED CELL POLYETHYLENE OR OTHER SOFT CELL MATERIAL RECOMMENDED BY ELASTIC FLASHING MANUFACTURER OR SEALER UNDER FLASHING LOOPS TO ENSURE MOVEMENT WITH MINIMUM STRESS ON FLASHING SHEET.

M. ROOFING CEMENT: ASTM D2822, ASPHALTIC.

2.4 FABRICATED UNITS

A. GENERAL METAL FABRICATION: COMPLY WITH DETAILS SHOWN AND WITH APPLICABLE REQUIREMENTS OF SMACNA "ARCHITECTURAL SHEET METAL MANUAL" AND OTHER RECOGNIZED INDUSTRY PRACTICES. FABRICATE WATERPROOF AND WEATHER RESISTANT PERFORMANCE, WITH EXPANSION PROVISIONS FOR RUNNING WORK, SUFFICIENT TO PERMANENTLY PREVENT LEAKAGE, DAMAGE, OR DETERIORATION OF THE WORK. FORM WORK TO SUBSTRATES. COMPLY WITH MATERIAL MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR FORMING MATERIAL. FORM EXPOSED SHEET METAL WORK WITHOUT EXCESSIVE OIL-CANNING, BUCKLING, OR TOOL MARKS, TRUE TO LINE AND LEVELS INDICATED WITH ALL EXPOSED EDGES FOLDED BACK TO FORM SEAMS AND SOLDER.

B. SEAMS: FABRICATE NON-MOVING SEAMS IN SHEET METAL WITH FLAT-LOCK SEAMS. TIN EDGES TO BE SEAMED, FORM SEAMS, AND SOLDER.

C. EXPANSION PROVISIONS: WHERE LAPPED OR BAYONET-TYPE EXPANSION PROVISIONS IN WORK CANNOT BE USED, OR WOULD NOT BE EFFECTIVELY WATERWEATHERPROOF, FORM EXPANSION JOINTS OF INTERMESHING HOOKED FLANGES, NOT LESS THAN 1 INCH DEEP, FILLED WITH MASTIC SEALANT (CONCEALED WITH JOINT).

D. SEALANT JOINTS: WHERE MOVABLE, NON-EXPANSION TYPE JOINTS ARE INDICATED OR REQUIRED FOR PROPER PERFORMANCE OF SHEET METAL WORK, TO PROVIDE FOR PROPER INSTALLATION OF ELASTOMERIC SEALANT, IN COMPLIANCE WITH SMACNA STANDARDS.

E. SEPARATIONS: PROVIDE FOR SEPARATION OF METAL FROM NONCOMPATIBLE METAL OR CORROSIVE SUBSTRATE BY COATING CONCEALED SURFACES AT LOCATIONS OF CONTACT, WITH BITUMINOUS COATING OR OTHER PERMANENT SEPARATION AS RECOMMENDED BY THE MANUFACTURER/FABRICATOR.

D. FASTENERS: SAME MATERIAL AND FINISH AS GUTTERS AND DOWNSPOUTS. SPLASH BLOCK: CONCRETE, 12" W. X 24" L. (MIN.)

2.4 FABRICATION

A. FORM GUTTERS AND DOWNSPOUTS OF PROFILES AND SIZE INDICATED.

B. FABRICATE WITH REQUIRED CONNECTION PIECES.

C. FORM SECTIONS SQUARE, TRUE, AND ACCURATE IN SIZE, IN MAXIMUM POSSIBLE LENGTHS, FREE OF DISTORTION OR DEFECTS DETRIMENTAL TO APPEARANCE OR PERFORMANCE. ALLOW FOR EXPANSION AT JOINTS.

D. HEM EXPOSED EDGES OF METAL MIN 1/2" FOLD OVER.

E. FABRICATE GUTTER AND DOWNSPOUT ACCESSORIES: SEAL WATERTIGHT.

2.5 FACTORY FINISHING

A. THERMO CURED FLUOROCARBON "KYNAR 500" RESIN COATING.

B. PRIMER COAT: FINISH CONCEALED SIDE OF METAL SHEETS WITH WASH COAT AND PRIMER COMPATIBLE WITH FINISH SYSTEM, AS RECOMMENDED BY FINISH SYSTEM MANUFACTURER.

PART 3 - EXECUTION

3.1 EXAMINATION

A. VERIFY THAT SURFACES ARE READY TO RECEIVE WORK.

3.2 PREPARATION

A. PAINT CONCEALED METAL SURFACES AND SURFACES IN CONTACT WITH DISSIMILAR METALS WITH PROTECTIVE BACKING PAINT TO A MINIMUM DRY FILM THICKNESS OF 15 MIL.

3.3 INSTALLATION

A. INSTALL GUTTERS, DOWNSPOUTS, AND ACCESSORIES AS SPECIFIED.

B. SHEET METAL: JOIN LENGTHS WITH SEAMS SEALED WATERTIGHT. FLASH AND SEAL GUTTERS TO DOWNSPOUTS (PROVIDE POSITIVE DRAINAGE TO DOWNSPOUTS).

C. SLOPE GUTTERS TO DOWNSPOUTS (PROVIDE POSITIVE DRAINAGE TO DOWNSPOUTS).

D. CONNECT DOWNSPOUTS TO DOWNSPOUT BOOTS AT STORM SEWER SYSTEM. SEAL CONNECTION WATERTIGHT. PROVIDE SPLASH BLOCKS AT ALL LOCATIONS WHERE DOWNSPOUTS DO NOT TIE INTO A STORM SEWER.

END OF SECTION 07 71 23

FIRESTOPPING SECTION 07 84 00

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. FIRE-TEST-RESPONSE CHARACTERISTICS: PROVIDE FIRESTOPPING THAT COMPLIES WITH THE FOLLOWING REQUIREMENTS AND THOSE SPECIFIED UNDER THE "SYSTEM PERFORMANCE REQUIREMENTS" ARTICLE:

3. FIRESTOPPING TESTS ARE PERFORMED BY A QUALIFIED TESTING AND INSPECTING AGENCY. A QUALIFIED TESTING AND INSPECTING AGENCY IS UL WAMOCK HERSEY, OR ANOTHER AGENCY PERFORMING TESTING AND FOLLOW-UP INSPECTION SERVICES FOR FIRESTOP SYSTEMS THAT IS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

4. THROUGH-PENETRATION FIRESTOP SYSTEMS ARE IDENTICAL TO THOSE TESTED PER ASTM E 814 UNDER CONDITIONS WHERE POSITIVE PRESSURE DIFFERENTIAL OF AT LEAST 0.01 INCH OF WATER IS MAINTAINED AT A DISTANCE OF 0.78 INCH BELOW THE FILL MATERIALS SURROUNDING THE PENETRATING ITEMS IN THE TEST ASSEMBLY. PROVIDE RATED SYSTEMS COMPLYING WITH THE FOLLOWING REQUIREMENTS:

a. THROUGH-PENETRATION FIRESTOP SYSTEM PRODUCTS BEAR CLASSIFICATION MARKING OF QUALIFIED TESTING AND INSPECTING AGENCY.

b. THROUGH-PENETRATION FIRESTOP SYSTEMS CORRESPOND TO THOSE INDICATED BY REFERENCE TO THROUGH-PENETRATION FIRESTOP SYSTEM DESIGNATIONS LISTED BY UL IN THEIR "FIRE RESISTANCE DIRECTORY" OR BY ANOTHER QUALIFIED TESTING AND INSPECTING AGENCY.

5. FIRE-RESISTIVE JOINT SEALANT SYSTEMS ARE IDENTICAL TO THOSE TESTED FOR FIRE-RESPONSE CHARACTERISTICS PER ASTM E 119 UNDER CONDITIONS WHERE THE POSITIVE FURNACE PRESSURE DIFFERENTIAL IS AT LEAST 0.01 INCH OF WATER, AS MEASURED 0.78 INCH FROM THE FACE EXPOSED TO FURNACE FIRE. PROVIDE SYSTEMS COMPLYING WITH THE FOLLOWING REQUIREMENTS:

a. FIRE-RESISTANCE RATINGS OF JOINT SEALANTS: AS INDICATED BY REFERENCE TO DESIGN DESIGNATIONS LISTED BY UL IN THEIR "FIRE RESISTANCE DIRECTORY" OR BY ANOTHER QUALIFIED TESTING AND INSPECTING AGENCY.

b. JOINT SEALANTS, INCLUDING BACKING MATERIALS, BEAR CLASSIFICATION MARKING OF QUALIFIED TESTING AND INSPECTION AGENCY.

B. INSTALLER QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER WHO HAS COMPLETED FIRESTOPPING THAT IS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR PROJECT AND THAT HAS BEEN PERFORMED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

C. SINGLE SOURCE RESPONSIBILITY FOR JOINT SEALANT MATERIALS: OBTAIN JOINT SEALANT MATERIALS FROM A SINGLE MANUFACTURER FOR EACH DIFFERENT PRODUCT REQUIRED.

D. PRODUCT TESTING: PROVIDE COMPREHENSIVE TEST DATA FOR EACH TYPE OF JOINT SEALANT BASED ON TESTS CONDUCTED BY A QUALIFIED INDEPENDENT TESTING LABORATORY ON CURRENT PRODUCT FORMULATIONS WITHIN A 24-MONTH PERIOD PRECEDING DATE OF CONTRACTOR'S SUBMITTAL OF TEST RESULTS TO ASSOCIATE.

1. TEST ELASTOMERIC SEALANTS FOR COMPLIANCE WITH REQUIREMENTS SPECIFIED BY REFERENCE TO ASTM C 920. INCLUDE TEST RESULTS FOR HARDNESS; STAIN RESISTANCE, ADHESION AND COHESION UNDER CYCLIC MOVEMENT (PER ASTM C 719); LOW-TEMPERATURE FLEXIBILITY; AND MODULUS OF ELASTICITY AT 100 PERCENT STRAIN, EFFECTS OF HEAT AGING, AND EFFECTS OF ACCELERATED WEATHERING.

2. INCLUDES TEST RESULTS PERFORMED ON JOINT SEALANTS AFTER THEY HAVE CURED FOR 1 YEAR.

D. PRECONSTRUCTION FIELD TESTING: PRIOR TO INSTALLATION OF JOINT SEALANTS, FIELD-TEST THEIR ADHESION TO JOINT SUBSTRATES AS FOLLOWS: LOCATE TEST JOINTS WHERE INDICATED OR, IF NOT INDICATED, AS DIRECTED BY ARCHITECT. CONDUCT FIELD TESTS FOR EACH APPLICATION INDICATED FOR EACH TYPE OF ELASTOMERIC SEALANT AND JOINT SUBSTRATE INDICATED.

1.3 DELIVERY, STORAGE AND HANDLING

A. DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL UNOPENED CONTAINERS OR BUNDLES WITH LABELS INDICATING MANUFACTURER, PRODUCT NAME AND DESIGNATION, COLOR, EXPIRATION PERIOD FOR USE, POT LIFE, CURING TIME, AND MIXING INSTRUCTIONS FOR MULTICOMPONENT MATERIALS.

B. STORE AND HANDLE MATERIALS IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, HIGH OR LOW TEMPERATURES, CONTAMINANTS, OR OTHER CAUSES.

1.4 WARRANTY

A. SPECIAL INSTALLER'S WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE JOINT SEALANTS THAT DO NOT COMPLY WITH PERFORMANCE AND OTHER REQUIREMENTS SPECIFIED IN THIS SECTION WITHIN SPECIFIED WARRANTY PERIOD.

1. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

B. SPECIAL MANUFACTURER'S WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH JOINT-SEALANT MANUFACTURER AGREES TO FURNISH JOINT SEALANTS TO REPAIR OR REPLACE THOSE THAT DO NOT COMPLY WITH PERFORMANCE AND OTHER REQUIREMENTS SPECIFIED IN THIS SECTION WITHIN SPECIFIED WARRANTY PERIOD.

1. WARRANTY PERIOD: 20 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

C. SPECIAL WARRANTIES SPECIFIED IN THIS ARTICLE EXCLUDE DETERIORATION OR FAILURE OF JOINT SEALANTS FROM THE FOLLOWING:

1. MOVEMENT OF THE STRUCTURE CAUSED BY STRUCTURAL SETTLEMENT OR ERRORS ATTRIBUTABLE TO DESIGN OR CONSTRUCTION RESULTING IN STRESSES ON THE SEALANT EXCEEDING SEALANT MANUFACTURER'S WRITTEN SPECIFICATIONS FOR SEALANT ELONGATION AND COMPRESSION.

2. DISINTEGRATION OF JOINT SUBSTRATES FROM NATURAL CAUSES EXCEEDING DESIGN SPECIFICATIONS.

3. MECHANICAL DAMAGE CAUSED BY INDIVIDUALS, TOOLS, OR OTHER OUTSIDE AGENTS.

4. CHANGES IN SEALANT APPEARANCE CAUSED BY ACCUMULATION OF DIRT OR OTHER ATMOSPHERIC CONTAMINANTS.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. COMPATIBILITY: PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND INSTALLATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.

B. LIQUID-APPLIED JOINT SEALANTS: COMPLY WITH ASTM C 920 AND OTHER REQUIREMENTS INDICATED FOR EACH LIQUID-APPLIED JOINT SEALANT SPECIFIED, INCLUDING THOSE REFERENCING ASTM C 920 CLASSIFICATIONS FOR TYPE, GRADE, CLASS, AND USES RELATED TO EXPOSURE AND JOINT SUBSTRATES.

C. STAIN-TEST-RESPONSE CHARACTERISTICS: WHERE SEALANTS ARE SPECIFIED TO BE NONSTAINING TO POROUS SUBSTRATES, PROVIDE PRODUCTS THAT HAVE UNDERGONE TESTING ACCORDING TO ASTM C 1248 AND HAVE NOT STAINED POROUS JOINT SUBSTRATES INDICATED FOR PROJECT.

D. SUITABILITY FOR CONTACT WITH FOOD: WHERE SEALANTS ARE INDICATED FOR JOINTS THAT WILL COME IN REPEATED CONTACT WITH FOOD, PROVIDE PRODUCTS THAT COMPLY WITH 21 CFR 177.2600.

E. COLORS OF EXPOSED JOINT SEALANTS: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

SILICONE JOINT SEALANTS

A. 25-1/ SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 50, FOR USE NT.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

a. GE ADVANCED MATERIALS - SILICONES; SILPRUF SCS2000.

b. PECORA CORPORATION, 898.

c. POLYMERIC SYSTEMS, INC.; PSI-641.

d. TREMCO INCORPORATED; SPECTREM 3.

B. 25-2/ SINGLE-COMPONENT, MILDEW RESISTANT, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 25, FOR USE NT.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

a. PECORA CORPORATION; 898.

b. TREMCO INCORPORATED; TREMSIL 200 CLEAR.

2.3 URETHANE JOINT SEALANTS

A. 25-3/ SINGLE-COMPONENT, NONSAG, URETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

a. POLYMERIC SYSTEMS, INC.; PSI-901.

b. SIKA CORPORATION, CONSTRUCTION PRODUCTS DIVISION; SIKAFLEX - 15LM.

c. TREMCO INCORPORATED; VULKEM 921 OR DYMONIC FC.

B. 25-4/ SINGLE-COMPONENT, POURABLE, MOISTURE CURING, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE P, CLASS 100/50, FOR USE NT.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

a. DOW CORNING CORPORATION; 890-SL.

b. PECORA CORPORATION; 300 PAVEMENT SEALANT (SELF-LEVELING).

c. TREMCO INCORPORATED; VULKEM 45.

2.4 LATEX JOINT SEALANTS

A. 25-5/- LATEX JOINT SEALANT: ACRYLIC LATEX OR SILICONIZED ACRYLIC LATEX, ASTM C 834, TYPE OP, GRADE NF.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

a. BOSTIK, INC.; CHEM-CALK 600.

b. PECORA CORPORATION; AC-20+.

c. TREMCO INCORPORATED; TREMFLEX 834.

2.5 METALLIC PUTTY SEALANTS

A. 25-7/ - METALLIC PUTTY: RIGID, TWO-PART EPOXY RESIN BASED PUTTY SYSTEM.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

a. PEERLESS INDUSTRIAL SYSTEMS; EPIGEM 2008.

b. EQUAL PRODUCTS AS APPROVED BY ARCHITECT.

2.6 ACOUSTICAL JOINT SEALANTS

A. ACOUSTICAL JOINT SEALANT: MANUFACTURER'S STANDARD NONSAG, PAINTABLE, NONSTAINING LATEX SEALANT COMPLYING WITH ASTM C 834. PRODUCT EFFECTIVELY REDUCES AIRBORNE SOUND TRANSMISSION THROUGH PERIMETER JOINTS AND OPENINGS IN BUILDING CONSTRUCTION AS DEMONSTRATED BY TESTING REPRESENTATIVE ASSEMBLIES ACCORDING TO ASTM E 90.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

a. PECORA CORPORATION; AC-20 FTR OR AIS-919.

b. USG CORPORATION; SHEETROCK ACOUSTICAL SEALANT.

2.7 JOINT SEALANT BACKING

A. GENERAL: PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE THAT ARE NON-STAINING, ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS AND OTHER JOINT FILLERS, AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.

B. CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, TYPE C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN) OR ANY TYPE, AS APPROVED IN WRITING BY JOINT-SEALANT MANUFACTURER FOR JOINT APPLICATION INDICATED, AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.

C. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE AS RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, SMOOTH, NONABSORBENT JOINT FILLER MATERIALS WHERE INDICATED AT BACK OF JOINT WHERE SUCH ADHESION WOULD RESULT IN SEALANT FAILURE. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.

2.8 MISCELLANEOUS MATERIALS

A. PRIMER: MATERIAL RECOMMENDED BY JOINT SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED, AS DETERMINED FROM PRECONSTRUCTION JOINT SEALANT-SUBSTRATE TESTS AND FIELD TESTS.

B. CLEANERS FOR NONPOROUS SURFACES: CHEMICAL CLEANERS ACCEPTABLE TO MANUFACTURERS OF SEALANTS AND SEALANT BACKING MATERIALS, FREE OF OILY RESIDUES OR OTHER SUBSTANCES CAPABLE OF STAINING OR HARMING IN ANY WAY JOINT SUBSTRATES AND ADJACENT NONPOROUS SURFACES, AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS WITH JOINT SUBSTRATES.

C. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE JOINTS INDICATED TO RECEIVE JOINT SEALANTS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR JOINT CONFIGURATION, INSTALLATION TOLERANCES, AND OTHER CONDITIONS AFFECTING JOINT SEALANT PERFORMANCE. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS FOR PREPARATION OF SUBSTRATES AND INSTALLATION OF JOINT SEALANTS AND BACKINGS NOT SPECIFICALLY REFERENCED IN MANUFACTURER'S INSTRUCTIONS OR RECOMMENDATIONS, TO THE EXTENT THAT SUCH OTHER INSTRUCTIONS AND RECOMMENDATIONS ARE APPLICABLE TO PROJECT CONDITIONS.

B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY JOINT CONFIGURATIONS AND CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

A. SURFACE CLEANING: CLEAN OUT JOINTS AND JOINTS IMMEDIATELY PRIOR TO INSTALLING FIRESTOPPING TO COMPLY WITH RECOMMENDATIONS OF FIRESTOPPING MANUFACTURER AND THE FOLLOWING REQUIREMENTS: REMOVE ALL FOREIGN MATERIALS FROM SURFACES OF OPENING AND JOINT SUBSTRATES AND FROM PENETRATING ITEMS THAT COULD INTERFERE WITH ADHESION OF FIRESTOPPING. CLEAN OPENING AND JOINT SUBSTRATES AND PENETRATING ITEMS TO PRODUCE CLEAN, SOUND SURFACES CAPABLE OF DEVELOPING OPTIMUM BOND WITH FIRESTOPPING. REMOVE LOOSE PARTICLES REMAINING FROM CLEANING OPERATION. REMOVE LAITANCE AND FORM RELEASE AGENTS FROM CONCRETE.

B. PRIMING: PRIME SUBSTRATES WHERE RECOMMENDED BY FIRESTOPPING MANUFACTURER USING ONLY THAT MANUFACTURER'S RECOMMENDED PRODUCTS AND METHODS. CONFINE PRIMERS TO AREAS OF BOND: DO NOT ALLOW SPILLAGE AND MIGRATION ONTO EXPOSED SURFACES.

C. MASKING TAPE: USE MASKING TAPE TO PREVENT FIRESTOPPING FROM CONTACTING ADJOINING SURFACES THAT WILL REMAIN EXPOSED UPON COMPLETION OF WORK AND THAT WOULD OTHERWISE BE PERMANENTLY STAINED OR DAMAGED BY SUCH CONTACT OR BY CLEANING METHODS USED TO REMOVE SMEARS FROM FIRESTOPPING MATERIALS. REMOVE TAPE AS SOON AS IT IS POSSIBLE TO DO SO WITHOUT DISTURBING FIRESTOPPING'S SEAL WITH SUBSTRATES.

3.3 INSTALLING THROUGH-PENETRATION FIRESTOPS

A. GENERAL: COMPLY WITH THE "SYSTEM PERFORMANCE REQUIREMENTS" ARTICLE IN PART 1 AND THE THROUGH-PENETRATION FIRESTOP MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DRAWINGS PERTAINING TO PRODUCTS AND APPLICATIONS INDICATED.

B. INSTALL BOARD DAMMING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE THE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED FOR DESIGNATED THROUGH-PENETRATION FIRESTOP SYSTEMS. AFTER INSTALLING FILL MATERIALS, REMOVE COMBUSTIBLE FORMING MATERIALS AND OTHER ACCESSORIES NOT INDICATED AS PERMANENT COMPONENTS OF FIRESTOP SYSTEMS.

3.4 INSTALLING FIRE-RESISTIVE JOINT SEALANTS

A. GENERAL: COMPLY WITH THE "SYSTEM PERFORMANCE REQUIREMENTS' ARTICLE IN PART 1, WITH ASTM C 1193 AND WITH THE SEALANT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DRAWINGS PERTAINING TO PRODUCTS AND APPLICATIONS INDICATED.

B. INSTALL JOINT FILLERS TO PROVIDE SUPPORT OF SEALANTS DURING APPLICATION AND AT POSITION REQUIRED TO PRODUCE THE CROSS-SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY AND DEVELOP FIRE-RESISTANCE RATINGS INDICATED.

C. INSTALL SEALANTS BY PROVEN TECHNIQUES THAT RESULT IN SEALANTS DIRECTLY CONTACTING AND ADHERING TO SIDES OF JOINT SUBSTRATES TO COMPLETELY FILLING RECESSES PROVIDED FOR EACH JOINT CONFIGURATION, AND PROVIDING UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTH THAT OPTIMIZE SEALANT MOVEMENT CAPABILITY. INSTALL SEALANTS AT THE SAME TIME JOINT FILLERS ARE INSTALLED.

3.5 CLEANING

A. CLEAN OFF EXCESS FILL MATERIALS AND SEALANTS ADJACENT TO OPENINGS AND JOINTS AS WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED BY MANUFACTURERS OF FIRESTOPPING PRODUCTS AND OF PRODUCTS IN WHICH OPENING AND JOINTS OCCUR.

B. PROTECT FIRESTOPPING DURING AND AFTER CURING PERIOD FROM CONTACT WITH CONTAMINATING SUBSTANCES OR FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS OR OTHER CAUSES SO THAT THEY ARE WITHOUT DETERIORATION OR DAMAGE AT TIME OF CONTRACT COMPLETION. IF, DESPITE SUCH PROTECTION, DAMAGE OR DETERIORATION OCCURS, CUT OUT AND REMOVE DAMAGED OR DETERIORATED FIRESTOPPING IMMEDIATELY AND INSTALL NEW MATERIALS TO PRODUCE FIRESTOPPING COMPLYING WITH SPECIFIED REQUIREMENTS.

END OF SECTION 07 84 00

JOINT SEALANTS SECTION 07 92 00

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER WHO HAS COMPLETED JOINT SEALANT APPLICATIONS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR PROJECT AND THAT HAS BEEN PERFORMED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

B. SINGLE SOURCE RESPONSIBILITY FOR JOINT SEALANT MATERIALS: OBTAIN JOINT SEALANT MATERIALS FROM A SINGLE MANUFACTURER FOR EACH DIFFERENT PRODUCT REQUIRED.

C. PRODUCT TESTING: PROVIDE COMPREHENSIVE TEST DATA FOR EACH TYPE OF JOINT SEALANT BASED ON TESTS CONDUCTED BY A QUALIFIED INDEPENDENT TESTING LABORATORY ON CURRENT PRODUCT FORMULATIONS WITHIN A 24-MONTH PERIOD PRECEDING DATE OF CONTRACTOR'S SUBMITTAL OF TEST RESULTS TO ASSOCIATE.

1. TEST ELASTOMERIC SEALANTS FOR COMPLIANCE WITH REQUIREMENTS SPECIFIED BY REFERENCE TO ASTM C 920. INCLUDE TEST RESULTS FOR HARDNESS; STAIN RESISTANCE, ADHESION AND COHESION UNDER CYCLIC MOVEMENT (PER ASTM C 719); LOW-TEMPERATURE FLEXIBILITY; AND MODULUS OF ELASTICITY AT 100 PERCENT STRAIN, EFFECTS OF HEAT AGING, AND EFFECTS OF ACCELERATED WEATHERING.

2. INCLUDES TEST RESULTS PERFORMED ON JOINT SEALANTS AFTER THEY HAVE CURED FOR 1 YEAR.

D. PRECONSTRUCTION FIELD TESTING: PRIOR TO INSTALLATION OF JOINT SEALANTS, FIELD-TEST THEIR ADHESION TO JOINT SUBSTRATES AS FOLLOWS: LOCATE TEST JOINTS WHERE INDICATED OR, IF NOT INDICATED, AS DIRECTED BY ARCHITECT. CONDUCT FIELD TESTS FOR EACH APPLICATION INDICATED FOR EACH TYPE OF ELASTOMERIC SEALANT AND JOINT SUBSTRATE INDICATED.

1.3 DELIVERY, STORAGE AND HANDLING

A. DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL UNOPENED CONTAINERS OR BUNDLES WITH LABELS INDICATING MANUFACTURER, PRODUCT NAME AND DESIGNATION, COLOR, EXPIRATION PERIOD FOR USE, POT LIFE, CURING TIME, AND MIXING INSTRUCTIONS FOR MULTICOMPONENT MATERIALS.

B. STORE AND HANDLE MATERIALS IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, HIGH OR LOW TEMPERATURES, CONTAMINANTS, OR OTHER CAUSES.

1.4 WARRANTY

A. SPECIAL INSTALLER'S WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE JOINT SEALANTS THAT DO NOT COMPLY WITH PERFORMANCE AND OTHER REQUIREMENTS SPECIFIED IN THIS SECTION WITHIN SPECIFIED WARRANTY PERIOD.

1. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

B. SPECIAL MANUFACTURER'S WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH J

(CONTINUED FROM PREVIOUS SHEET)

1.3 QUALITY ASSURANCE

A. ALL HARDWARE SHALL MEET ALL STATE AND LOCAL CODES, AND COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA), SECTION 4.13, DOORS.

1.4 SUBMITTALS

A. SUPPLIERS SHALL SUBMIT FOR APPROVAL SIX (6) COPIES OF A PROPOSED HARDWARE SCHEDULE LISTING COMPLETE ARCHITECTURAL FINISH HARDWARE DERIVED FROM THE DRAWINGS AND THESE SPECIFICATIONS.

B. SAFETY GLASS: PRODUCTS COMPLYING WITH ANSI Z97.1 AND TESTING REQUIREMENTS OF 16 CFR PART 1201 FOR CATEGORY II MATERIALS.

C. FIRE-RESISTIVE GLAZING PRODUCTS FOR DOOR AND INTERIOR WINDOW ASSEMBLIES: PRODUCTS IDENTICAL TO THOSE TESTED PER ASTM E 152, LABELED AND LISTED BY UL OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

D. FIRE-RESISTIVE GLAZING PRODUCTS FOR WINDOW ASSEMBLIES: PRODUCTS IDENTICAL TO THOSE TESTED PER ASTM E 163, LABELED AND LISTED BY UL OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

E. INSULATING GLASS CERTIFICATION PROGRAM: PROVIDE INSULATING GLASS UNITS PERMANENTLY MARKED EITHER ON SPACERS OR AT LEAST ONE COMPONENT LITE OF UNITS WITH APPROPRIATE CERTIFICATION LABEL OF THE INSULATING GLASS CERTIFICATION COUNCIL (IGCC).

F. GLAZIER QUALIFICATIONS: ENGAGE AN EXPERIENCED GLAZIER WHO HAS COMPLETED GLAZING SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR PROJECT WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

G. SINGLE-SOURCE RESPONSIBILITY FOR GLASS: OBTAIN GLASS FROM ONE SOURCE FOR EACH PRODUCT INDICATED BELOW:

1. PRIMARY GLASS OF EACH (ASTM C 1036) TYPE AND CLASS INDICATED.
2. HEAT-TREATED GLASS OF EACH (ASTM C 1048) CONDITION INDICATED.
3. INSULATING GLASS OF EACH CONSTRUCTION INDICATED.

H. SINGLE-SOURCE RESPONSIBILITY FOR GLAZING ACCESSORIES: OBTAIN GLAZING ACCESSORIES FROM ONE SOURCE FOR EACH PRODUCT AND INSTALLATION METHOD INDICATED.

1.5 DELIVERY, STORAGE AND HANDLING

A. PROTECT GLAZING MATERIALS TO COMPLY WITH MANUFACTURER'S DIRECTIONS AND AS NEEDED TO PREVENT DAMAGE TO GLASS AND GLAZING MATERIALS FROM CONDENSATION, TEMPERATURE CHANGES, DIRECT EXPOSURE TO SUN OR OTHER CAUSES.

1.6 PROJECT CONDITIONS

A. ENVIRONMENTAL CONDITIONS: DO NOT PROCEED WITH GLAZING WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE THE LIMITS PERMITTED BY GLAZING MATERIALS MANUFACTURER WHEN GLAZING CHANGES, SUBSTRATES ARE WET FROM RAIN, FROST, CONDENSATION, OR OTHER CAUSES.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS FROM ONE OF THE FOLLOWING: PPG, OR OLDCASTLE.

2.2 INSULATING GLASS PRODUCTS - GENERAL

A. SEALED INSULATING GLASS UNITS: PREASSEMBLED UNITS CONSISTING OF ORGANICALLY SEALED PAIRS OF GLASS SEPARATED BY DEHYDRATED SPACES COMPLYING WITH ASTM E 774 AND WITH OTHER REQUIREMENTS INDICATED.

1. FOR PROPERTIES OF INDIVIDUAL GLASS LITES MAKING UP UNITS, REFER TO REQUIREMENTS SPECIFIED ELSEWHERE IN THIS SECTION APPLICABLE TO TYPES, CLASSES, KINDS, AND CONDITIONS OF GLASS PRODUCTS COMPRISING LITES OF INSULATING UNITS.
2. PROVIDE HEAT-TREATED, COATED FLOAT GLASS OF KIND FT (FULLY TEMPERED).
3. SAFETY GLAZING LABELING: WHERE SAFETY GLAZING IS INDICATED, PERMANENTLY MARK GLAZING WITH CERTIFICATION LABEL, LABEL SHALL INDICATE MANUFACTURER'S NAME, TYPE OF GLASS, THICKNESS AND SAFETY GLAZING STANDARD WITH WHICH GLASS COMPLIES.
4. U-VALUES ARE EXPRESSED AS BTU/HOUR X SQ. FT. X DEG F.
5. SHGC: SHADING COEFFICIENT CERTIFICATION: PERMANENTLY MARKED ON SPACERS WITH CERTIFICATION LABEL OF IGCC.

2.3 1-INCH, CLEAR, INSULATED GLASS: GL-1

A. CLASSIFICATION OF UNITS: CLASS C, B, A PER ASTM E 774 (WITHDRAWN).

B. AIR SPACE WIDTH: NOMINAL 1/2 INCH MEASURED PERPENDICULARLY FROM SURFACES OF GLASS LITES AT UNITS EDGE.

C. GAS FILLING: AIR.

D. SEALING SYSTEM: DUAL SEAL, PRIMARY AND SECONDARY SEALANTS: MANUFACTURER'S STANDARD SEALANTS.

E. SPACER SPECIFICATIONS: ALUMINUM WITH MILL OR CLEAR-ANODIZED FINISH.

F. DESSICANT: EITHER MOLECULAR SIEVE OR SILICA GEL OR BLEND OF BOTH.

G. CORNER CONSTRUCTION: MANUFACTURER'S STANDARD CORNER CONSTRUCTION.

H. THICKNESS OF EACH LITE: 6.0 MM (0.23 INCH).

I. INDOOR LITE: CLEAR.

1. KIND: FULLY TEMPERED FLOAT GLASS: ASTM C 1048, KIND FT (FULLY TEMPERED), TYPE I, CLASS 1 (CLEAR), QUALITY-Q3.

J. OUTDOOR LITE: CLEAR WITH "SOLARBAN 60" LOW-E PYROLYTIC COATED ON SURFACE 2. BY PPG INDUSTRIES, INC.

1. KIND: FULLY TEMPERED FLOAT GLASS: ASTM C 1048, KIND FT (FULLY TEMPERED), COATED, TYPE 1, CLASS 2, QUALITY-Q3.

K. AVAILABLE MANUFACTURER(S):

1. OLDCASTLE GLASS.
2. PPG INDUSTRIES, INC.

2.5 1/4-INCH, CLEAR GLASS: GL-3

A. CLASS: CLASS 1.

B. AVAILABLE MANUFACTURERS:

1. OLDCASTLE GLASS.
2. PPG INDUSTRIES, INC.

2.6 1/4-INCH, CLEAR, TEMPERED GLASS: GL-4

A. CLASS: CLASS 1, FULLY TEMPERED.

B. AVAILABLE MANUFACTURERS:

1. OLDCASTLE GLASS.
2. PPG INDUSTRIES, INC.

2.7 ELASTOMERIC GLAZING SEALANTS

A. GENERAL: PROVIDE PRODUCTS OF TYPE INDICATED, COMPLYING WITH THE FOLLOWING REQUIREMENTS:

1. COMPATIBILITY: SELECT GLAZING SEALANTS AND TAPES OF PROVEN COMPATIBILITY WITH OTHER MATERIALS THEY WILL CONTACT, INCLUDING GLASS PRODUCTS, TYPES OF INSULATING GLASS UNITS, AND GLAZING SUBSTRATES, UNDER CONDITIONS OF INSTALLATION AND SERVICE, AS DEMONSTRATED BY TESTING AND FIELD EXPERIENCE.
2. SUITABILITY: COMPLY WITH SEALANT AND GLASS MANUFACTURER'S RECOMMENDATIONS FOR SELECTING GLAZING SEALANTS AND TAPES THAT ARE SUITABLE FOR APPLICATIONS INDICATED AND CONDITIONS EXISTING AT TIME OF INSTALLATION.
3. PROVIDE COLOR OF EXPOSED JOINT SEALANTS TO COMPLY WITH THE FOLLOWING: PROVIDE SELECTIONS MADE BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS FOR PRODUCTS OF TYPE INDICATED.

B. MANUFACTURERS: PROVIDE PRODUCTS FROM ONE OF THE FOLLOWING: SPECTRUM BY TREMCO OR 790 BUILDING SEALANT BY DOW CORNING, INC.

C. ELASTOMERIC GLAZING SEALANT STANDARD: PROVIDE MANUFACTURER'S STANDARD CHEMICALLY CURING, ELASTOMERIC SEALANTS OF BASE POLYMER INDICATED THAT COMPLY WITH ONE OF THE REQUIREMENTS INDICATED OR EACH ELASTOMERIC GLAZING SEALANT PRODUCT DATA SHEET AT THE END OF THIS SECTION, INCLUDING THOSE REFERENCING ASTM C 920 CLASSIFICATIONS FOR TYPE, GRADE, CLASS AND USES.

D. GLASS DESIGN: GLASS THICKNESSES INDICATED ON DRAWINGS ARE FOR DETAILING ONLY. CONFIRM GLASS THICKNESSES BY ANALYZING PROJECT LOADS AND IN-SERVICE CONDITIONS. PROVIDE GLASS LITES FOR VARIOUS SIZE OPENINGS IN THE THICKNESSES AND STRENGTHS (ANNEALED OR HEAT-TREATED) TO MEET OR EXCEED THE FOLLOWING CRITERIA:

1. MINIMUM GLASS THICKNESS, NOMINALLY, OF LITES IN EXTERIOR WALLS IS 6.0 MM (0.23 INCH).
2. MINIMUM GLASS THICKNESSES OF LITES WHETHER COMPOSED OF ANNEALED OR HEAT-TREATED GLASS, AS SELECTED SO THE WORST-CASE PROBABILITY OF FAILURE DOES NOT EXCEED THE FOLLOWING: 8 LITES PER 1000 FOR LITES SET VERTICAL OR NOT OVER 15 DEGREES OFF VERTICAL AND UNDER WIND ACTION. DETERMINE MINIMUM THICKNESS OF MONOLITHIC ANNEALED GLASS ACCORDING TO ASTM E 1300. FOR OTHER THAN MONOLITHIC ANNEALED GLASS, DETERMINE THICKNESS PER GLASS MANUFACTURER'S STANDARD METHOD OF ANALYSIS INCLUDING APPLYING ADJUSTMENT FACTORS TO ASTM E 1300 BASED ON TYPE OF GLASS.
3. NORMAL THERMAL MOVEMENTS RESULTS FROM AMBIENT AND SURFACE TEMPERATURES CHANGES ACTING ON GLASS-FRAMING MEMBERS AND GLAZING COMPONENTS. BASE ENGINEERING CALCULATION ON MATERIALS' ACTUAL SURFACE TEMPERATURES DUE TO BOTH SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT LOSS.
   a. TEMPERATURE CHANGE: 120 DEG F (67 DEG C), AMBIENT; 180 DEG F (100 DEG C), MATERIAL SURFACES.

C. SETTING BLOCKS: ELASTOMERIC MATERIAL WITH A SHORE A DUROMETER HARDNESS OF 85 PLUS OR MINUS 5.

D. SPACERS: ELASTOMERIC BLOCKS OR CONTINUOUS EXTRUSIONS WITH A SHORE A DUROMETER HARDNESS REQUIRED BY GLASS MANUFACTURER TO MAINTAIN GLASS LITES IN PLACE FOR INSTALLATION INDICATED.

E. EDGE BLOCKS: ELASTOMERIC MATERIAL OF HARDNESS NEEDED TO LIMIT GLASS LATERAL MOVEMENT (SIDE WALKING).

F. PERIMETER INSULATION FOR FIRE-RESISTIVE GLAZING: IDENTICAL TO PRODUCT USED IN TEST ASSEMBLY TO OBTAIN FIRE-RESISTIVE RATING.

2.10 FABRICATION OF GLASS AND OTHER GLAZING PRODUCTS

A. FABRICATE GLASS AND OTHER GLAZING PRODUCTS IN SIZES REQUIRED TO GLAZE OPENINGS INDICATED FOR MINIMUM EDGE AND FACE CLEARANCES, EDGE AND SURFACE CONDITIONS, AND BITE COMPLYING WITH RECOMMENDATIONS OF PRODUCT MANUFACTURER AND REFERENCED GLAZING STANDARD AS REQUIRED TO COMPLY WITH SYSTEM PERFORMANCE REQUIREMENTS.

B. CLEAN CUT OR FLAT GRIND VERTICAL EDGES OF BUTT-GLAZED MONOLITHIC LITES IN A MANNER THAT PRODUCES SQUARE EDGES WITH SLIGHT KERFS AT CONTACT WITH INDOOR AND OUTDOOR FACES.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE GLASS FRAMING, WITH GLAZIER PRESENT, FOR COMPLIANCE WITH THE FOLLOWING:

1. MANUFACTURING AND INSTALLATION TOLERANCES, INCLUDING THOSE FOR SIZE, SQUARENESS, OFFSETS AT CORNERS.
2. PRESENCE AND FUNCTIONING OF WEEP SYSTEM.
3. MINIMUM REQUIRED FACE OR EDGE CLEARANCES.
4. EFFECTIVE SEALING BETWEEN JOINTS OF GLASS-FRAMING MEMBERS.

B. DO NOT PROCEED WITH GLAZING UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

A. CLEAN GLAZING CHANNELS AND OTHER FRAMING MEMBERS RECEIVING GLASS IMMEDIATELY BEFORE GLAZING. REMOVE COATINGS THAT ARE NOT FIRMLY BONDED TO SUBSTRATES.

3.3 GLAZING, GENERAL

A. COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF GLASS, SEALANTS, GASKETS, AND OTHER GLAZING MATERIALS, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED, INCLUDING THOSE IN REFERENCED GLAZING PUBLICATIONS.

B. GLAZING CHANNEL DIMENSIONS AS INDICATED ON DRAWINGS PROVIDE NECESSARY BITE ON GLASS, MINIMUM EDGE AND FACE CLEARANCES, AND ADEQUATE SEALANT THICKNESSES, WITH REASONABLE TOLERANCES. ADJUST AS REQUIRED BY PROJECT CONDITIONS DURING INSTALLATION.

C. PROTECT GLASS FROM EDGE DAMAGE DURING HANDLING AND INSTALLATION AS FOLLOWS:

1. USE A ROLLING BLOCK IN ROTATING GLASS UNITS TO PREVENT DAMAGE TO GLASS CORNERS. DO NOT IMPACT GLASS WITH METAL FRAMING. USE SUCTION CUPS TO SHIFT GLASS UNITS WITHIN OPENINGS; DO NOT RAISE OR DRIFT GLASS UNITS BY PRY BAR. ROTATE GLASS WITH FLANGES OR BEVELS ON BOTTOM HORIZONTAL EDGES SO EDGES ARE LOCATED AT TOP OF OPENING, UNLESS OTHERWISE INDICATED BY MANUFACTURER'S DETAILS.
2. REMOVE DAMAGED GLASS FROM PROJECT SITE AND LEGALLY DISPOSE OF OFF SITE. DAMAGED GLASS IS GLASS WITH EDGE DAMAGE OR OTHER IMPERFECTIONS THAT, WHEN INSTALLED, WEAKEN GLASS AND IMPAIR PERFORMANCE AND APPEARANCE.

D. APPLY PRIMERS TO JOINT SURFACES WHERE REQUIRED FOR ADHESION OF SEALANTS, AS DETERMINED BY PRECONSTRUCTION SEALANT-SUBSTRATE TESTING.

E. INSTALL ELASTOMERIC SETTING BLOCKS IN SILL RABBETS, SIZED AND LOCATED TO COMPLY WITH REFERENCED GLAZING STANDARD, UNLESS OTHERWISE REQUIRED BY GLASS MANUFACTURER. SET BLOCKS IN THIN COURSE OF COMPATIBLE SEALANT OR BED IN HEEL BEAD.

F. DO NOT EXCEED EDGE PRESSURES STIPULATED BY GLASS MANUFACTURERS FOR INSTALLING GLASS LITES.

G. PROVIDE SPACERS FOR GLASS SIZES LARGER THAN 50 UNITED INCHES (LENGTH PLUS HEIGHT) AS FOLLOWS: LOCATE SPACERS INSIDE, OUTSIDE, AND DIRECTLY OPPOSITE EACH OTHER. INSTALL CORRECT SIZE AND SPACING TO PRESERVE REQUIRED FACE CLEARANCES. EXCEPT WHERE GASKETS OR GLAZING TAPES ARE USED THAT HAVE DEMONSTRATED ABILITY TO MAINTAIN REQUIRED FACE CLEARANCES AND COMPLY WITH SYSTEM PERFORMANCE REQUIREMENTS, PROVIDE 1/8-INCH MINIMUM BITE OF SPACERS ON GLASS AND USE THICKNESS EQUAL TO SEALANT WIDTH. WITH GLAZING TAPE, USE THICKNESS SLIGHTLY LESS THAN FINAL COMPRESSED THICKNESS OF TAPE.

H. PROVIDE EDGE BLOCKING TO COMPLY WITH REQUIREMENTS OF REFERENCED GLAZING PUBLICATIONS, UNLESS OTHERWISE REQUIRED BY GLASS MANUFACTURER.

3.4 TAPE GLAZING

A. POSITION TAPES ON FIXED STOPS SO THAT WHEN COMPRESSED BY GLASS THEIR EXPOSED EDGES ARE FLUSH WITH OR PROTRUDE SLIGHTLY ABOVE SIGHTLINE OF STOPS.

B. INSTALL TAPES CONTINUOUSLY BUT NOT IN ONE CONTINUOUS LENGTH. DO NOT STRETCH TAPES TO MAKE THEM FIT OPENING.

C. WHERE FRAMING JOINTS ARE VERTICAL, COVER THESE JOINTS BY APPLYING TAPES TO HEADS AND SILLS FIRST AND THEN TO JAMBS. WHERE FRAMING JOINTS ARE HORIZONTAL, COVER THESE JOINTS BY APPLYING TAPES TO JAMBS AND THEN TO HEADS AND SILLS.

D. PLACE JOINTS IN TAPES AT CORNERS OF OPENING WITH ADJOINING LENGTHS BUTTED TOGETHER, NOT LAPPED. SEAL JOINTS IN TAPES WITH COMPATIBLE SEALANT APPROVED BY TAPE MANUFACTURER.

E. DO NOT REMOVE RELEASE PAPER FROM TAPE UNTIL JUST BEFORE EACH LITE IS INSTALLED.

F. CENTER GLASS LITES IN OPENINGS ON SETTING BLOCKS AND PRESS FIRMLY AGAINST TAPE BY INSERTING REMOVABLE COMPRESSION GASKETS FORMED AND INSTALLED TO LOCK IN PLACE AGAINST FACES OF REMOVABLE STOPS. START GASKET APPLICATIONS AT CORNERS AND WORK TOWARD CENTERS OF OPENINGS.

G. AT EXTERIOR EXPOSURES, APPLY CAP BEAD OF ELASTOMERIC GLAZING SEALANT OVER EXPOSED EDGE OF TAPE.

3.5 PROTECTION AND CLEANING

A. PROTECT EXTERIOR GLASS FROM BREAKAGE IMMEDIATELY AFTER INSTALLATION BY ATTACHING CROSSED STREAMERS TO FRAMING HELD AWAY FROM GLASS. DO NOT APPLY MARKERS TO GLASS SURFACE. REMOVE NONPERMANENT LABELS, AND CLEAN SURFACES.

B. PROTECT GLASS FROM CONTACT WITH CONTAMINATING SUBSTANCES RESULTING FROM CONSTRUCTION OPERATIONS DOING WELL AS WEATHER. IF, DESPITE SUCH PROTECTION, CONTAMINATING SUBSTANCES DO COME INTO CONTACT WITH GLASS, REMOVE THEM IMMEDIATELY AS RECOMMENDED BY GLASS MANUFACTURER.

C. EXAMINE GLASS SURFACES ADJACENT TO OR BELOW EXTERIOR CONCRETE AND OTHER MASONRY SURFACES AT FREQUENT INTERVALS DURING CONSTRUCTION, BUT NOT LESS THAN ONCE A MONTH, FOR BUILD-UP OF DIRT, SCUM, ALKALI DEPOSITS, OR STAINS, AND REMOVE AS RECOMMENDED BY GLASS MANUFACTURER.

D. REMOVE AND REPLACE GLASS THAT IS BROKEN, CHIPPED, CRACKED, ABRADED, OR DAMAGED IN ANOTHER WAY, INCLUDING NATURAL CAUSES, ACCIDENTS AND VANDALISM, DURING CONSTRUCTION PERIOD.

E. WASH GLASS ON BOTH FACES IN EACH AREA OF PROJECT NOT MORE THAN 4 DAYS PRIOR TO DATE SCHEDULED FOR INSPECTIONS THAT ESTABLISH DATE OF CONTRACT COMPLETION. WASH GLASS AS RECOMMENDED BY GLASS MANUFACTURER.

END OF SECTION 08 80 00

DIVISION 09 - FINISHES

GYPSUM BOARD ASSEMBLIES SECTION 09 21 00

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 DEFINITIONS

A. GYPSUM BOARD CONSTRUCTION TERMINOLOGY: REFER TO ASTM C 11 AND GA-505 FOR DEFINITIONS OF TERMS FOR GYPSUM BOARD ASSEMBLIES NOT DEFINED IN THIS SECTION OR REFERENCED STANDARDS.

1.3 ASSEMBLY PERFORMANCE REQUIREMENTS

A. FIRE RESISTANCE: PROVIDE GYPSUM BOARD ASSEMBLIES WITH FIRE-RESISTANCE RATINGS INDICATED.

1.4 QUALITY ASSURANCE

A. SINGLE-SOURCE RESPONSIBILITY FOR PANEL PRODUCTS: OBTAIN EACH TYPE OF GYPSUM BOARD AND OTHER PANEL PRODUCTS FROM A SINGLE MANUFACTURER.

B. SINGLE-SOURCE RESPONSIBILITY FOR FINISHING MATERIALS: OBTAIN FINISHING MATERIALS FROM EITHER THE SAME MANUFACTURER THAT SUPPLIES GYPSUM BOARD AND OTHER PANEL PRODUCTS OR FROM A MANUFACTURER ACCEPTABLE TO GYPSUM BOARD MANUFACTURER.

C. FIRE-TEST-RESPONSE CHARACTERISTICS: WHERE FIRE-RESISTANCE-RATED GYPSUM BOARD ASSEMBLIES ARE INDICATED, PROVIDE GYPSUM BOARD ASSEMBLIES THAT COMPLY WITH THE FOLLOWING REQUIREMENTS: FIRE-RESISTANCE RATINGS: AS INDICATED BY GA FILE NUMBERS IN GA-600 'FIRE RESISTANCE DESIGN MANUAL" OR DESIGN DESIGNATIONS IN UL "FIRE RESISTANCE DIRECTORY" OR IN THE LISTING OF ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

1.5 DELIVERY, STORAGE, AND HANDLING

A. DELIVER MATERIALS IN ORIGINAL PACKAGES, CONTAINERS, OR BUNDLES BEARING BRAND NAME AND IDENTIFICATION OF MANUFACTURER OR SUPPLIER.

B. STORE MATERIALS INSIDE UNDER COVER AND KEEP THEM DRY AND PROTECTED AGAINST DAMAGE FROM WEATHER, DIRECT SUNLIGHT, SURFACE CONTAMINATION, CORROSION, CONSTRUCTION TRAFFIC, AND OTHER CAUSES. NEATLY STACK GYPSUM PANELS FLAT TO PREVENT SAGGING.

1.6 PROJECT CONDITIONS

A. ENVIRONMENTAL CONDITIONS, GENERAL: ESTABLISH AND MAINTAIN ENVIRONMENTAL CONDITIONS FOR APPLYING AND FINISHING GYPSUM BOARD TO COMPLY WITH ASTM C 840 REQUIREMENTS OR GYPSUM BOARD MANUFACTURER'S RECOMMENDATIONS, WHICHEVER ARE MORE STRINGENT.

B. ROOM TEMPERATURES: FOR NONADHESIVE ATTACHMENT OF GYPSUM BOARD TO FRAMING, MAINTAIN NOT LESS THAN 40 DEG F. FOR ADHESIVE ATTACHMENT AND FINISHING OF GYPSUM BOARD, MAINTAIN NOT LESS THAN 50 DEG F FOR 48 HOURS BEFORE APPLICATION AND CONTINUOUSLY AFTER UNTIL DRY. DO NOT EXCEED 95 DEG F WHEN USING TEMPORARY HEAT SOURCES.

C. VENTILATION: VENTILATE BUILDING SPACES AS REQUIRED TO DRY JOINT TREATMENT MATERIALS. AVOID DRAFTS DURING HOT, DRY WEATHER TO PREVENT FINISHING MATERIALS FROM DRYING TOO RAPIDLY.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS FROM ONE OF THE FOLLOWING: NATIONAL GYPSUM COMPANY, GOLD BOND BUILDING PRODUCTS DIVISION, OR UNITED STATES GYPSUM CO.

2.2 GYPSUM BOARD PRODUCTS

A. GENERAL: PROVIDE GYPSUM BOARD OF TYPES INDICATED IN MAXIMUM LENGTHS AVAILABLE THAT WILL MINIMIZE END-TO-END BUTT JOINTS IN EACH AREA INDICATED TO RECEIVE GYPSUM BOARD APPLICATION. WIDTHS: PROVIDE GYPSUM BOARD IN WIDTHS OF 48 INCHES.

B. GYPSUM WALLBOARD: ASTM C 36 AND AS FOLLOWS:

1. TYPE: TYPE X.
2. TYPE: MOISTURE-RESISTANT.
3. TYPE: SAG-RESISTANT TYPE FOR CEILING SURFACES.
4. EDGES: TAPERED AND FEATURED (ROUNDED OR BEVELED) FOR PRE-FILLING.
5. THICKNESS: 1/2 INCH, UNLESS OTHERWISE INDICATED.

C. GEMMENTITIOUS BOARD PRODUCTS: ASTM A118.9 AND ASTM C 1288 OR 1325, WITH MANUFACTURER'S STANDARD EDGES.

1. MOLD RESISTANCE: ASTM D 3273, SCORE OF 10 AS RATED ACCORDING TO ASTM D 3274.

D. GYPSUM BOARD BASE LAYER(S) FOR MULTI-LAYER APPLICATIONS: GYPSUM WALLBOARD, ASTM C 36, AND AS FOLLOWS:

1. TYPE: TYPE X.
2. TYPE: SAG-RESISTANT TYPE FOR CEILING SURFACES, UNLESS OTHERWISE INDICATED.
3. EDGES: MANUFACTURER'S STANDARD.
4. THICKNESS: 1/2 INCH, UNLESS OTHERWISE INDICATED.

2.3 TRIM ACCESSORIES

A. ACCESSORIES FOR INTERIOR INSTALLATION: CORNERBEAD, EDGE TRIM, AND CONTROL JOINTS COMPLYING WITH ASTM C 1047 AND FORMED METAL OR PLASTIC, WITH METAL BONDED TO SUBSTRATES.

1. STEEL SHEET ZINC COATED BY HOT-DIP PROCESS OR ROLLED ZINC.
2. SHAPES INDICATED BELOW BY REFERENCE TO FIG. 1 DESIGNATIONS IN ASTM C 1047.

B. CORNERBEAD ON OUTSIDE CORNERS, UNLESS OTHERWISE INDICATED.

C. LC-BEAD WITH BOOT FLAP AND BACK FLANGES: FACE FLANGE FORMED TO RECEIVE JOINT COMPOUND. USE LC-BEAD AT EDGE TRIM, UNLESS OTHERWISE INDICATED.

D. ONE-PIECE CONTROL JOINT FORMED WITH V-SHAPED SLOT AND REMOVABLE STRIP COVERING SLOT OPENING.

2.4 JOINT TREATMENT MATERIALS

A. GENERAL: PROVIDE JOINT TREATMENT MATERIALS COMPLYING WITH ASTM C 475 AND THE RECOMMENDATIONS OF BOTH THE MANUFACTURERS OF SHEET PRODUCTS AND OF JOINT TREATMENT MATERIALS FOR EACH APPLICATION.

B. JOINT TAPE FOR GYPSUM BOARD: PAPER-REINFORCING TAPE, UNLESS OTHERWISE INDICATED.

C. DRYING-TYPE JOINT COMPOUNDS FOR GYPSUM BOARD: FACTORY-PACKAGED VINYL-BASED PRODUCTS COMPLYING WITH THE FOLLOWING REQUIREMENTS FOR FORMULATION AND INTENDED USE. READY-MIXED FORMULATION: FACTORY-MIXED PRODUCT, ALL-PURPOSE COMPOUND FORMULATED FOR BOTH TAPING AND TOPPING COMPOUNDS.

2.5 MISCELLANEOUS MATERIALS

A. GENERAL: PROVIDE AUXILIARY MATERIALS FOR GYPSUM BOARD CONSTRUCTION THAT COMPLY WITH REFERENCED STANDARDS AND RECOMMENDATIONS OF GYPSUM BOARD MANUFACTURER.

B. LAMINATING ADHESIVE: SPECIAL ADHESIVE OR JOINT COMPOUND RECOMMENDED FOR LAMINATING GYPSUM PANELS.

C. STEEL DRILL SCREWS COMPLYING WITH ASTM C 1002 FOR FASTENING GYPSUM BOARD TO STEEL MEMBERS LESS THAN 0.033-INCH THICK.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE SUBSTRATES TO WHICH GYPSUM BOARD ASSEMBLIES ATTACH OR ABUT, INSTALLED WOOD FRAMES, CAST-IN-ANCHORS, AND STRUCTURAL FRAMING, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF ASSEMBLIES SPECIFIED IN THIS SECTION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

A. CEILING ANCHORAGES: COORDINATE INSTALLATION OF CEILING SUSPENSION SYSTEMS WITH INSTALLATION OF OVERHEAD STRUCTURAL ASSEMBLIES TO ENSURE THAT INSERTS AND OTHER PROVISIONS FOR ANCHORAGES TO BUILDING STRUCTURE HAVE BEEN INSTALLED TO RECEIVE CEILING HANGERS IN TIME AND ARE SUFFICIENTLY STRONG AND FIRMLY ATTACHED TO STRUCTURE TO DEVELOP FULL STRENGTH AND AT SPACING REQUIRED TO SUPPORT CEILINGS AND ALL ATTACHED ITEMS.

3.3 NON-LOAD-BEARING STEEL FRAMING INSTALLATION

A. GENERAL: COMPLY WITH ASTM C754, AND ASTM C840 REQUIREMENTS THAT APPLY TO FRAMING INSTALLATION.

B. SUSPENSION SYSTEMS FOR FLAT AND SOFFIT FRAMING:

1. SUSPEND CEILING HANGERS PLUMB AND FREE FROM CONTACT WITH INSULATION OR OTHER OBJECTS WITHIN CEILING PLENUM THAT ARE NOT PART OF SUPPORTING STRUCTURAL OR CEILING SUSPENSION SYSTEM. SPLAY HANGERS ONLY WHERE REQUIRED TO MISS OBSTRUCTIONS AND OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTERSPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS.
2. WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES HANGER SPACINGS THAT INTERFERE WITH THE LOCATION OF HANGERS REQUIRED TO SUPPORT STANDARD SUSPENSION SYSTEM MEMBERS, INSTALL SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS IN FORM OF TRAPEZES OR EQUIVALENT DEVICES. SIZE SUPPLEMENTAL SUSPENSION MEMBER AND HANGERS TO SUPPORT CEILING LOADS WITHIN PERFORMANCE LIMITS ESTABLISHED BY REFERENCED STANDARDS.
3. ATTACH HANGERS TO STRUCTURAL MEMBERS. DO NOT SUPPORT CEILINGS FROM OR ATTACH HANGERS TO PERMANENT METAL FORMS, STEEL DECK TABS, STEEL ROOF DECKS, DUCTS, PIPES, OR CONDUIT.
4. SCREW FURRING TO WOOD FRAMING.

5. WIRE-TIE FURRING CHANNELS TO SUPPORTS AS REQUIRED TO COMPLY WITH REQUIREMENTS FOR ASSEMBLIES INDICATED.

6. GRID SUSPENSION SYSTEM: ATTACH PERIMETER WALL TRACK OR ANGLE WHERE GRID SUSPENSION SYSTEM MEETS VERTICAL SURFACES. MECHANICALLY JOIN MAIN BEAM AND CROSS FURRING MEMBERS TO EACH OTHER AND BUTT-CUT TO FIT INTO WALL TRACK.

C. PARTITION AND SOFFIT FRAMING:

1. WHERE STUDS ARE INSTALLED DIRECTLY AGAINST EXTERIOR WALLS, INSTALL ISOLATION STRIP BETWEEN STUDS AND WALL.
2. EXTEND PARTITION FRAMING FULL HEIGHT TO STRUCTURAL SUPPORTS OR SUBSTRATES ABOVE SUSPENDED CEILINGS, EXCEPT WHERE PARTITIONS ARE INDICATED TO TERMINATE AT SUSPENDED CEILINGS. CONTINUE FRAMING OVER FRAMES FOR DOORS AND OPENINGS AND FRAME AROUND DUCTS PENETRATING PARTITIONS ABOVE CEILING TO PROVIDE SUPPORT FOR GYPSUM BOARD.
3. FRAME DOOR OPENINGS TO COMPLY WITH GA-600 AND WITH GYPSUM BOARD MANUFACTURER'S DETAILS APPLICABLE WHERE NO REQUIREMENTS ARE OTHERWISE INDICATED. SCREW VERTICAL STUDS AT JAMBS TO JAMB ANCHOR CLIPS ON DOOR FRAMES; INSTALL RUNNER TRACK SECTION (FOR CRIPPLE STUDS) AT HEAD AND SECURE JAMB STUDS.
   a. INSTALL TWO STUDS AT EACH JAMB, UNLESS OTHERWISE INDICATED.
   b. EXTEND JAMB STUDS THROUGH SUSPENDED CEILINGS AND ATTACH TO UNDERSIDE OF FLOOR OR ROOF STRUCTURE ABOVE.
4. FRAME OPENINGS OTHER THAN FLOOR OPENINGS THE SAME AS REQUIRED FOR DOOR OPENINGS, UNLESS OTHERWISE INDICATED. INSTALL FRAMING BELOW SILLS OF OPENINGS TO MATCH FRAMING REQUIRED ABOVE DOOR HEADS.

D. Z-FURRING MEMBERS: ERECT INSULATION VERTICALLY AND HOLD IN PLACE WITH Z-FURRING MEMBERS.

1. UNTIL GYPSUM BOARD IS INSTALLED, HOLD INSULATION IN PLACE WITH 10-INCH (250-MM) STAPLES FABRICATED FROM 0.0625-INCH- (1.59-MM-) DIAMETER, TIE WIRE AND INSERTED THROUGH SLOT IN WEB OF MEMBER.

E. POLYETHYLENE VAPOR RETARDER: INSTALL TO COMPLY WITH REQUIREMENTS SPECIFIED IN DIVISION 7 SECTION "BUILDING INSULATION."

3.4 APPLYING AND FINISHING GYPSUM BOARD, GENERAL

A. GYPSUM BOARD APPLICATION AND GYPSUM BOARD STANDARDS: INSTALL AND FINISH GYPSUM PANELS TO COMPLY WITH ASTM C840 AND GA-216.

B. INSTALL GYPSUM BOARD PANELS ACROSS FRAMING TO MINIMIZE THE NUMBER OF ABUTTING END JOINTS AND TO AVOID ABUTTING END JOINTS IN THE CENTRAL AREA OF EACH CEILING. STAGGER ABUTTING END JOINTS OF ADJACENT PANELS NOT LESS THAN ONE FRAMING MEMBER.

C. INSTALL GYPSUM PANELS WITH FACE SIDE OUT. DO NOT INSTALL IMPER

DIVISION 10 - SPECIALTIES

SIGNAGE — SECTION 10 14 23

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. ILLUMINATED PANEL SIGNS.
2. ROOM-IDENTIFICATION SIGNS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.

B. SHOP DRAWINGS: FOR PANEL SIGNS.

1. INCLUDE FABRICATION AND INSTALLATION DETAILS AND ATTACHMENTS TO OTHER WORK.
2. SHOW SIGN MOUNTING HEIGHTS, LOCATIONS OF SUPPLEMENTARY SUPPORTS TO BE PROVIDED BY OTHERS, AND ACCESSORIES.
3. SHOW MESSAGE LIST, TYPESTYLES, GRAPHIC ELEMENTS , INCLUDING RAISED CHARACTERS AND BRAILLE], AND LAYOUT FOR EACH SIGN AT LEAST [HALF SIZE] <INSERT SCALE>.
4. SHOW LOCATIONS OF ELECTRICAL SERVICE CONNECTIONS.
5. INCLUDE DIAGRAMS FOR POWER, SIGNAL, AND CONTROL WIRING.

C. SAMPLES: FOR EACH EXPOSED PRODUCT AND FOR EACH COLOR AND TEXTURE SPECIFIED.

D. SIGN SCHEDULE: USE SAME DESIGNATIONS SPECIFIED OR INDICATED ON DRAWINGS OR IN A SIGN SCHEDULE.

1.3 INFORMATIONAL SUBMITTALS

A. SAMPLE WARRANTY.

1.4 CLOSEOUT SUBMITTALS

A. MAINTENANCE DATA.

1.5 WARRANTY

A. SPECIAL WARRANTY: MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF SIGNS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.

1. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 - PRODUCTS

2.1 SIGNS

A. MANUFACTURER: APPROVED POPEYES SIGNAGE MANUFACTURER.

B. PANEL SIGN: SIGN WITH SMOOTH, UNIFORM SURFACES, WITH MESSAGE AND CHARACTERS HAVING UNIFORM FACES, SHARP CORNERS, AND PRECISELY FORMED LINES AND PROFILES; AND AS FOLLOWS:

1. ILLUMINATED PANEL SIGN: BACKLIT CONSTRUCTION LIGHTING INCLUDING TRANSFORMERS, INSULATORS, AND/OR OTHER ACCESSORIES FOR OPERABILITY, WITH PROVISION FOR SERVICING AND CONCEALING CONNECTIONS TO BUILDING ELECTRICAL SYSTEM. USE TIGHT OR SEALED JOINT CONSTRUCTION TO PREVENT UNINTENTIONAL LIGHT LEAKAGE. SPACE LAMPS APART FROM EACH OTHER AND AWAY FROM SIGN SURFACES AS NEEDED TO ILLUMINATE EVENLY.
   a. POWER: AS INDICATED ON ELECTRICAL DRAWINGS.
2. MOUNTING: MANUFACTURER'S STANDARD METHOD FOR SUBSTRATES INDICATED ON EXTERIOR ELEVATIONS.

C. RESTROOM-IDENTIFICATION SIGN: SIGN WITH SMOOTH, UNIFORM SURFACES; WITH MESSAGE AND CHARACTERS HAVING UNIFORM FACES, SHARP CORNERS, AND PRECISELY FORMED LINES AND PROFILES; AND AS FOLLOWS:

1. LAMINATED-SHEET SIGN: FACE SHEET WITH RAISED GRAPHICS LAMINATED TO BACKING SHEET TO PRODUCE COMPOSITE SHEET.
   a. COLOR AS PER AUTHORITIES HAVING JURISDICTION.
2. MOUNTING: SURFACE MOUNTED TO WALL WITH ADHESIVE.

PART 3 - EXECUTION

3.1 INSTALLATION

A. GENERAL: INSTALL SIGNS USING MOUNTING METHODS INDICATED AND ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

1. INSTALL SIGNS LEVEL, PLUMB, TRUE TO LINE, AND AT LOCATIONS AND HEIGHTS INDICATED, WITH SIGN SURFACES FREE OF DISTORTION AND OTHER DEFECTS IN APPEARANCE.
2. INSTALL SIGNS SO THEY DO NOT PROTRUDE OR OBSTRUCT ACCORDING TO THE ACCESSIBILITY STANDARD.
3. BEFORE INSTALLATION, VERIFY THAT SIGN SURFACES ARE CLEAN AND FREE OF MATERIALS OR DEBRIS THAT WOULD IMPAIR INSTALLATION.
4. CORROSION PROTECTION: COAT CONCEALED SURFACES OF EXTERIOR ALUMINUM IN CONTACT WITH GROUT, CONCRETE, MASONRY, WOOD, OR DISSIMILAR METALS, WITH A HEAVY COAT OF BITUMINOUS PAINT.

B. MOUNTING METHODS:

1. EXTERIOR ILLUMINATED BUILDING SIGNS: MOUNTING METHOD TO BE PROVIDED BY MANUFACTURER.
2. RESTROOM-IDENTIFICATION SIGN:
   a. ADHESIVE: CLEAN BOND-BREAKING MATERIALS FROM SUBSTRATE. SURFACE AND REMOVE LOOSE DEBRIS. APPLY LINEAR BEADS OR SPOTS OF ADHESIVE SYMMETRICALLY TO BACK OF SIGN AND OF SUITABLE QUANTITY TO SUPPORT WEIGHT OF SIGN AFTER CURE WITHOUT SLIPPAGE. KEEP ADHESIVE AWAY FROM EDGES TO PREVENT ADHESIVE EXTRUSION AS SIGN IS APPLIED AND TO PREVENT VISIBILITY OF CURED ADHESIVE AT SIGN EDGES. PLACE SIGN IN POSITION, AND PUSH TO ENGAGE ADHESIVE. TEMPORARILY SUPPORT SIGN IN POSITION UNTIL ADHESIVE FULLY SETS.
   b. TWO-FACE TAPE: CLEAN BOND-BREAKING MATERIALS FROM SUBSTRATE SURFACE AND REMOVE LOOSE DEBRIS. APPLY TAPE STRIPS SYMMETRICALLY TO BACK OF SIGN AND OF SUITABLE QUANTITY TO SUPPORT WEIGHT OF SIGN WITHOUT SLIPPAGE. KEEP STRIPS AWAY FROM EDGES TO PREVENT VISIBILITY AT SIGN EDGES. PLACE SIGN IN POSITION, AND PUSH TO ENGAGE TAPE ADHESIVE.

C. REMOVE TEMPORARY PROTECTIVE COVERINGS AND STRIPPABLE FILMS AS SIGNS ARE INSTALLED.

END OF SECTION 10 14 23

WALL PROTECTION — SECTION 10 26 00

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. CORNER GUARDS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

B. SAMPLES: FOR EACH EXPOSED PRODUCT AND FOR EACH COLOR AND TEXTURE SPECIFIED, 12 INCHES LONG.

1.3 INFORMATIONAL SUBMITTALS

A. MATERIAL CERTIFICATES.

B. MATERIAL TEST REPORTS.

C. WARRANTY: SAMPLE OF SPECIAL WARRANTY.

1.4 CLOSEOUT SUBMITTALS

A. MAINTENANCE DATA.

1.5 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS: AN EMPLOYER OF WORKERS TRAINED AND APPROVED BY MANUFACTURER.

B. SURFACE-BURNING CHARACTERISTICS: AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E 84. NFPA 255, OR UL 723 BY UL OR ANOTHER QUALIFIED TESTING AGENCY.

1.6 WARRANTY

A. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF IMPACT-RESISTANT WALL PROTECTION UNITS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.

1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   a. STRUCTURAL FAILURES.
   b. DETERIORATION OF PLASTIC AND OTHER MATERIALS BEYOND NORMAL USE.
2. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 - PRODUCTS

2.1 MATERIALS

A. PVC PLASTIC: ASTM D 1784, CLASS 1, TEXTURED, CHEMICAL- AND STAIN-RESISTANT, HIGH-IMPACT-RESISTANT PVC OR ACRYLIC-MODIFIED VINYL PLASTIC WITH INTEGRAL COLOR THROUGHOUT.

1. IMPACT RESISTANCE TO MEET ASTM D 25 , TEST METHOD A.
2. CHEMICAL AND STAIN RESISTANCE PER ASTM STANDARDS.
3. SELF-EXTINGUISHING WHEN TESTED ACCORDING TO ASTM D 35.
4. FLAME-SPREAD INDEX: 25 OR LESS.
5. SMOKE-DEVELOPED INDEX: 450 OR LESS.

B. POLYCARBONATE PLASTIC SHEET: ASTM D 098, S-PC21, CLASS 1 OR 2, ABRASION RESISTANT; WITH A MINIMUM IMPACT-RESISTANCE RATING PER ASTM D 25 , TEST METHOD A.

C. FASTENERS: ALUMINUM, NONMAGNETIC STAINLESS-STEEL, OR OTHER NONCORROSIVE METAL SCREWS, BOLTS, AND OTHER FASTENERS COMPATIBLE WITH ITEMS BEING FASTENED. USE SECURITY-TYPE FASTENERS WHERE EXPOSED TO VIEW.

D. ADHESIVE: AS RECOMMENDED BY IMPACT-RESISTANT PLASTIC WALL PROTECTION MANUFACTURER AND WITH A VOC CONTENT OF [70] <INSERT VALUE GIL OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

2.2 CORNER GUARDS

A. SURFACE-MOUNTED, RESILIENT, CORNER GUARDS: ASSEMBLY CONSISTING OF COVER INSTALLED OVER CONTINUOUS RETAINER; INCLUDING MOUNTING HARDWARE; FABRICATED WITH 90-DEGREE TURN.

1. CRANE COMPOSITES, INC.
2. MARLITE PRODUCTS, INC.
B. COLOR AND TEXTURE (TO BE VERIFIED WITH OWNER):
   1. STAINLESS STEEL.
   2. PVC PLASTIC - WHITE.
C. RETAINER CLIPS: MANUFACTURER'S STANDARD IMPACT-ABSORBING CLIPS.
   1. TOP AND BOTTOM CAPS: PREFABRICATED, INJECTION-MOLDED PLASTIC; COLOR MATCHING COVER; FIELD ADJUSTABLE FOR CLOSE ALIGNMENT WITH SNAP-ON COVER.

PART 3 - EXECUTION

3.1 INSTALLATION

A. GENERAL: INSTALL IMPACT-RESISTANT WALL PROTECTION UNITS LEVEL, PLUMB, AND TRUE TO LINE WITHOUT DISTORTIONS. DO NOT USE MATERIALS WITH CHIPS, CRACKS, VOIDS, STAINS, OR OTHER DEFECTS THAT MIGHT BE VISIBLE IN THE FINISHED WORK.

1. INSTALL IMPACT-RESISTANT WALL PROTECTION UNITS IN LOCATIONS AND AT MOUNTING HEIGHTS INDICATED ON DRAWINGS.
2. PROVIDE SPLICES, MOUNTING HARDWARE, ANCHORS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
   a. PROVIDE ANCHORING DEVICES TO WITHSTAND IMPOSED LOADS.

B. IMMEDIATELY AFTER COMPLETION OF INSTALLATION, CLEAN PLASTIC COVERS AND ACCESSORIES USING A STANDARD, AMMONIA-BASED, HOUSEHOLD CLEANING AGENT.

C. REMOVE EXCESS ADHESIVE USING METHODS AND MATERIALS RECOMMENDED IN WRITING BY MANUFACTURER.

END OF SECTION 10 26 00

TOILET ACCESSORIES — SECTION 10 28 00

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. SINGLE-SOURCE RESPONSIBILITY: PROVIDE PRODUCTS OF SAME MANUFACTURER FOR EACH TYPE OF ACCESSORY UNIT AND FOR UNITS EXPOSED TO VIEW IN SAME AREAS.

1.3 PROJECT CONDITIONS

A. COORDINATION: COORDINATE ACCESSORY LOCATIONS, INSTALLATION, AND SEQUENCING WITH OTHER WORK TO AVOID INTERFERENCE AND TO ASSURE PROPER INSTALLATION, OPERATION, ADJUSTMENT, CLEANING, AND SERVICING OF TOILET ACCESSORY ITEMS.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. SEE EQUIPMENT PLAN AND SCHEDULE FOR TOILET ACCESSORIES INFORMATION.

2.2 MATERIALS GENERAL

A. STAINLESS STEEL: AISI TYPE 302/304, WITH POLISHED NO. 4 FINISH, 22 GAUGE (.034 INCH) MINIMUM THICKNESS.

B. BRASS: LEADED AND UNLEADED, FLAT PRODUCTS, ASTM B19; RODS, SHAPES, FORGINGS, AND FLAT PRODUCTS WITH FINISHED EDGES, ASTM B16; CASTINGS, ASTM B30.

C. CHROMIUM PLATING: NICKEL AND CHROMIUM ELECTRO-DEPOSITED ON BASE METAL; ASTM B 456, TYPE SC2.

D. FASTENERS: SCREWS, BOLTS, AND OTHER DEVICES OF SAME MATERIAL AS ACCESSORY UNIT OR OF GALVANIZED STEEL WHERE CONCEALED.

E. ALL STEEL PRODUCTS SHALL BE FABRICATED UTILIZING ONLY DOMESTICALLY PRODUCED STEEL.

2.3 RECESSED SANITARY NAPKIN DISPOSAL

A. SATIN-FINISH STAINLESS STEEL, SEAMLESS BEVELED FLANGE. DOOR HAS TUMBLER LOCK. SELF-CLOSING PANEL COVERS DISPOSAL OPENING. REMOVABLE, LEAK-PROOF, 1.2 GAL. PLASTIC RECEPTACLE.

2.4 BABY-CHANGING TABLE

A. SURFACE MOUNTED TYPE, HORIZONTAL, POLYPROPYLENE AND UNIBODY STEEL CONSTRUCTION. STEEL ON STEEL HINGE WITH GAS SPRING MECHANISM.

2.5 SEMI-RECESSED GARBAGE

A. TYPE 304 STAINLESS STEEL ALLOY 18-8 WITH SATIN FINISH. 18 GAUGE DOOR MOUNTED ON STAINLESS STEEL PIANO HINGE AND SHALL BE HELD CLOSED WITH TUMBLER. 20 GAUGE PUSH DOOR WITH INTERNATIONAL GRAPHIC SYMBOL IDENTIFYING WASTE DISPOSAL.

2.6 GRAB BARS

A. STAINLESS STEEL TYPE: PROVIDE GRAB BARS WITH WALL THICKNESS NOT LESS THAN 0.05 INCH (18 GAUGE). MOUNTING: CONCEALED; MANUFACTURER'S STANDARD FLANGES AND ANCHORAGE. MOUNTING PER MANUFACTURER'S STANDARD FLANGES AND ANCHORAGE. CLEARANCE: 1-1/2 INCH CLEARANCE BETWEEN WALL SURFACE AND INSIDE FACE OF BAR. GRIPPING SURFACES: MANUFACTURER'S STANDARD. HEAVY-DUTY SIZE: OUTSIDE DIAMETER OF 1-1/2 INCHES. PROVIDE ONE 18" LONG GRAB BAR; ONE 36" LONG GRAB BAR; ONE 42" LONG GRAB BAR; PER RESTROOM.

2.7 HAND DRYER

A. WARM AIR, RAPID DRYING, ENERGY EFFICIENT ELECTRIC HAND DRYER. SURFACE MOUNTED. RECESSED KIT. POWER SOURCE 110/120V, 12.5AMP.

2.8 MIRROR UNIT

A. STAINLESS STEEL FRAMED MIRROR UNITS: FABRICATE FRAME WITH ANGLE SHAPES NOT LESS THAN 0.05 INCH (18 GAUGE), WITH SQUARE CORNERS MITERED, WELDED, AND GROUND SMOOTH. PROVIDE IN NO. 4 SATIN POLISHED FINISH. ONE REQUIRED OVER EACH TOILET ROOM SINK.

2.9 MISCELLANEOUS ACCESSORIES

A. MOP AND BROOM HOLDER: WALL MOUNTING. 0.062 INCH (16 GAUGE) STAINLESS STEEL WITH SPRING-LOADED, RUBBER HAT, CAM-TYPE MOP/BROOM HOLDERS. PROVIDE UNIT 24 INCHES LONG AND COMPLETE WITH FOUR MOP/BROOM HOLDERS.

B. DOUBLE-PRONG ROBE HOOK: HEAVY-DUTY SATIN FINISHED STAINLESS STEEL DOUBLE-PRONG ROBE HOOK. RECTANGULAR WALL BRACKET WITH BACKPLATE FOR CONCEALED MOUNTING. ONE REQUIRED FOR EACH TOILET ROOM.

2.10 FABRICATION

A. GENERAL: A MAXIMUM 1-1/2 INCH DIAMETER, UNOBTRUSIVE STAMPED LOGO OF MANUFACTURER, AS APPROVED BY ARCHITECT, IS PERMITTED ON EXPOSED FACE OF TOILET OR BATH ACCESSORY UNITS. ON EITHER INTERIOR SURFACE NOT EXPOSED TO VIEW OR BACK SURFACE, PROVIDE ADDITIONAL IDENTIFICATION BY MEANS OF EITHER A PRINTED, WATERPROOF LABEL OR A STAMPED NAMEPLATE, INDICATING MANUFACTURER'S NAME AND PRODUCT MODEL NUMBER.

B. SURFACE-MOUNTED TOILET ACCESSORIES, GENERAL: EXCEPT WHERE OTHERWISE INDICATED, FABRICATE UNITS WITH TIGHT SEAMS AND JOINTS, EXPOSED EDGES ROLLED. HANG DOORS OR ACCESS PANELS WITH CONT. STAINLESS STEEL PIANO HINGE. PROVIDE CONCEALED ANCHORAGE WHEREVER POSSIBLE.

C. KEYS: PROVIDE UNIVERSAL KEYS FOR ACCESS TO TOILET ACCESSORY UNITS REQUIRING INTERNAL ACCESS FOR SERVICING. RE-SUPPLY, ETC. PROVIDE MINIMUM OF SIX KEYS TO OWNER'S REPRESENTATIVE.

PART 3 - EXECUTION

3.1 INSTALLATION

A. INSTALL TOILET ACCESSORY UNITS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, USING FASTENERS APPROPRIATE TO SUBSTRATE AS RECOMMENDED BY MANUFACTURER. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED.

B. IN LOCATIONS MARKED FOR HANDICAPPED ACCESSIBILITY, INSTALL TOILET ACCESSORIES IN COMPLIANCE WITH REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

C. SECURE MIRRORS TO WALLS IN CONCEALED, TAMPERPROOF MANNER WITH SPECIAL HANGERS, TOGGLE BOLTS OR SCREWS. SET UNITS PLUMB, LEVEL, AND SQUARE AT LOCATIONS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION FOR TYPE OF SUBSTRATE INVOLVED.

D. INSTALL GRAB BARS TO WITHSTAND A DOWNWARD LOAD OF AT LEAST 250 LBF, COMPLYING WITH ASTM F446.

3.2 ADJUSTING AND CLEANING

A. ADJUST TOILET ACCESSORIES FOR PROPER OPERATION AND VERIFY THAT MECHANISMS FUNCTION SMOOTHLY. REPLACE DAMAGED OR DEFECTIVE ITEMS.

B. CLEAN AND POLISH ALL EXPOSED SURFACES IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AFTER REMOVING TEMPORARY LABELS AND PROTECTIVE COATINGS.

END OF SECTION 10 28 00

FIRE PROTECTION SPECIALTIES — SECTION 10 44 00

(AS APPLICABLE)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. SINGLE-SOURCE RESPONSIBILITY: OBTAIN EXTINGUISHERS AND CABINETS FROM A SINGLE MANUFACTURER.

B. COORDINATION: VERIFY THAT CABINETS ARE SIZED TO ACCOMMODATE TYPE AND CAPACITY OF EXTINGUISHERS INDICATED.

C. UL-LISTED PRODUCTS: FIRE EXTINGUISHERS SHALL BE UL LISTED WITH UL LISTING MARK FOR TYPE, RATING, AND CLASSIFICATION OF FIRE EXTINGUISHER.

D. NFPA COMPLIANCE: FABRICATE AND LABEL FIRE EXTINGUISHERS TO COMPLY WITH NFPA 10, "STANDARD FOR PORTABLE FIRE EXTINGUISHERS".

E. FIRE EXTINGUISHERS: LISTED AND LABELED FOR TYPE, RATING, AND CLASSIFICATION BY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. PORTABLE FIRE EXTINGUISHES AND CABINETS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: POTTER ROEMER.

2.2 MATERIALS

A. COLD-ROLLED STEEL SHEET: CARBON STEEL, COMPLYING WITH ASTM A366/A366M, COMMERCIAL QUALITY, STRETCHED LEVELED, TEMPER ROLLED.

B. ALUMINUM: ALLOY AND TEMPER RECOMMENDED BY ALUMINUM PRODUCER AND MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED AS FOLLOWS:

1. SHEET: ASTM B209.
2. EXTRUDED SHAPES: ASTM B221.

STAINLESS-STEEL SHEET: ASTM A666, TYPE 302 OR TYPE 304 ALLOY.

2.3 PORTABLE FIRE EXTINGUISHERS

A. GENERAL: PROVIDE FIRE EXTINGUISHERS OF TYPE, SIZE, AND CAPACITY FOR EACH CABINET AND OTHER LOCATIONS INDICATED.

B. MULTIPURPOSE DRY-CHEMICAL TYPE: UL-RATED 4-A:60-B:C, 10-LB NOMINAL CAPACITY, IN ENAMELED STEEL CONTAINER.

2.4 FIRE - PROTECTION CABINETS

A. CABINET CONSTRUCTION: PROVIDE MANUFACTURER'S STANDARD BOX (TUB), WITH TRIM, FRAME, DOOR, AND HARDWARE TO SUIT CABINET TYPE, TRIM STYLE, AND DOOR STYLE INDICATED. WELD JOINTS AND GRIND SMOOTH. MITER AND WELD PERIMETER DOOR FRAMES. CONTRACTOR TO VERIFY COLOR SELECTION OF ALL FIRE-PROTECTION CABINETS WITH OWNER PRIOR TO ANY WORK.

1. FIRE-RATED CABINETS: LISTED AND LABELED TO MEET REQUIREMENTS OF ASTM E814 FOR FIRE-RESISTANCE RATING OF WALL WHERE IT IS INSTALLED. CONSTRUCTION FIRE-RATED CABINETS WITH DOUBLE WALLS FABRICATED FROM 0.0478 INCH THICK, COLD-ROLLED STEEL SHEET LINED WITH MINIMUM 5/8 INCH THICK, FIRE-BARRIER MATERIAL. PROVIDE FACTORY DRILLED MOUNTING HOLES.
2. CABINET METAL: ENAMELED STEEL HOLES.

B. CABINET TYPE: SUITABLE FOR FIRE EXTINGUISHER.

C. CABINET MOUNTING: PROVIDE SEMI-RECESSED CABINET BOX PARTIALLY TO SUIT STYLE OF TRIM INDICATED. LOCATE CABINET PER ADAAG'S REACH REQUIREMENTS. FOR AN UNOBSTRUCTED APPROACH, THE MAXIMUM REACH IS 48 INCHES (1220 MM) ABOVE THE FLOOR. THE MAXIMUM REACH FOR A SIDE APPROACH IS 54 INCHES (1370 MM).

D. CABINET TRIM STYLE: FABRICATE TRIM IN ONE-PIECE WITH CORNERS MITERED, WELDED, AND GROUND SMOOTH. EXPOSED TRIM: ONE-PIECE COMBINATION TRIM AND PERIMETER DOOR FRAME OVERLAPPING SURROUNDING WALL SURFACE WITH EXPOSED TRIM FACE AND WALL RETURN AT OUTER EDGE (BACKEND). ROLLED-EDGE TRIM: 2-1/2 INCH BACKBEND DEPTH.

E. CABINET TRIM MATERIAL: MANUFACTURER'S STANDARD, SAME METAL AND FINISH AS DOOR.

F. DOOR MATERIAL: MANUFACTURER'S STANDARD, SHEET METAL.

G. DOOR STYLE: MANUFACTURER'S STANDARD DESIGN, SOLID OPAQUE PANEL WITH FRAME.

H. DOOR CONSTRUCTION: FABRICATE DOORS ACCORDING TO MANUFACTURER'S STANDARDS, OF MATERIALS INDICATED, AND COORDINATED WITH CABINET TYPES AND TRIM STYLES SELECTED.

I. DOOR HARDWARE: PROVIDE MANUFACTURER'S STANDARD DOOR-OPERATING HARDWARE OF PROPER TYPE FOR CABINET TYPE, TRIM STYLE, AND DOOR MATERIAL AND STYLE INDICATED. PROVIDE EITHER LEVER HANDLE WITH CAM-ACTION LATCH, OR EXPOSED OR CONCEALED DOOR PULL AND FRICTION LATCH. PROVIDE CONCEALED OR CONTINUOUS-TYPE HINGE PERMITTING DOOR TO OPEN 180 DEGREES.

2.5 ACCESSORIES

A. MOUNTING BRACKETS: MANUFACTURER'S STANDARD STEEL, DESIGNED TO SECURE EXTINGUISHER, OF SIZES REQUIRED FOR TYPES AND CAPACITIES OF EXTINGUISHERS INDICTED. WITH PLATED OR BAKED ENAMEL FINISH.

1. PROVIDE BRACKETS FOR EXTINGUISHERS NOT LOCATED IN CABINETS.
2. PROVIDE BRACKETS FOR EXTINGUISHERS LOCATED IN CABINETS.

B. IDENTIFICATION: PROVIDE LETTERING TO COMPLY WITH AUTHORITIES HAVING JURISDICTION FOR LETTER STYLE, COLOR, SIZE, SPACING, AND LOCATION. LOCATE AS DIRECTED BY THE OWNERS REPRESENTATIVE.

1. IDENTIFY FIRE EXTINGUISHER IN CABINET WITH THE WORDS "FIRE EXTINGUISHER" APPLIED TO DOOR. APPLY BLACK VINYL LETTERS, HORIZONTALLY.

2.6 COLORS AND TEXTURES

A. COLORS AND TEXTURES: AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE FOR CHARACTERISTICS.

2.7 FINISHES, GENERAL

A. COMPLY WITH NAAMM'S "METAL FINISHES MANUAL" FOR RECOMMENDATIONS FOR APPLYING AND DESIGNATION FINISHES.

B. PROTECT MECHANICAL FINISHES ON EXPOSED SURFACES FROM DAMAGE BY APPLYING A STRIPPABLE, TEMPORARY PROTECTIVE COVERING BEFORE SHIPPING.

C. APPEARANCE OF FINISHED WORK: VARIATIONS IN APPEARANCE OF ABUTTING OR ADJACENT PIECES ARE ACCEPTABLE IF THEY ARE WITHIN ONE-HALF OF THE RANGE OF APPROVED SAMPLES. NOTICEABLE VARIATIONS IN THE SAME PIECE ARE NOT ACCEPTABLE. VARIATIONS IN APPEARANCE OF OTHER COMPONENTS ARE ACCEPTABLE IF THEY ARE WITHIN THE RANGE OF THE APPROVED SAMPLES AND ARE ASSEMBLED OR INSTALLED TO MINIMIZE CONTRAST.

D. CABINET AND DOOR FINISHES: PROVIDE MANUFACTURER'S STANDARD BAKED-ENAMEL PAINT FOR THE FOLLOWING:

1. EXTERIOR OF CABINETS AND DOORS.
2. INTERIOR OF CABINETS AND DOORS.

2.8 STEEL FINISHES

A. SURFACE PREPARATION: CLEANING SURFACES OF DIRT, OIL, GREASE, MILL SCALE, RUST, AND CONTAMINANTS THAT COULD IMPAIR PAINT BOND USING MANUFACTURER'S STANDARD METHODS.

B. FACTORY PRIMING FOR FIELD PAINTED FINISH: APPLY SHOP PRIMER SPECIFIED BELOW IMMEDIATELY AFTER SURFACE PREPARATION AND PRETREATMENT.

1. SHOP PRIMER: MANUFACTURER'S OR FABRICATOR'S STANDARD, FAST-CURING, LEAD AND CHROMATE-FREE, UNIVERSAL PRIMER, SELECTED FOR RESISTANCE TO NORMAL ATMOSPHERIC CORROSION, FOR COMPATIBILITY TO PROVIDE A SOUND FOUNDATION FOR FIELD-APPLIED TOPCOATS DESPITE PROLONGED EXPOSURE.

C. BAKED-ENAMEL FINISH: IMMEDIATELY AFTER CLEANING PRETREATING, APPLY MANUFACTURER'S STANDARD TWO-COAT, BAKED-ENAMEL FINISH CONSISTING OF PRIME COAT AND THERMOSETTING TOPCOAT. COMPLY WITH PAINT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR APPLYING AND BAKING TO ACHIEVE A MINIMUM DRY FILM THICKNESS OF 2 MILS.

1. COLOR AND GLOSS: AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE WALLS ROUGH-IN FOR HOSE VALVES, HOSE RACKS, AND CABINETS TO VERIFY ACTUAL LOCATIONS OF PIPING CONNECTIONS BEFORE CABINET INSTALLATION.

B. EXAMINE WALLS AND PARTITIONS FOR SUITABLE FRAMING DEPTH AND BLOCKING WHERE RECESSED AND SEMI-RECESSED CABINETS ARE TO INSTALLED.

C. EXAMINE FIRE EXTINGUISHERS FOR PROPER CHARGING AND TAGGING.

1. REMOVE AND REPLACE DAMAGE, DEFECTIVE, OR UNDERCHARGED UNITS.

D. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION

A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLING FIRE-PROTECTION SPECIALTIES.

B. INSTALL IN LOCATIONS AND AT MOUNTING HEIGHTS INDICATED OR, IF NOT INDICATED, AT HEIGHTS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

1. PREPARE RECESSES FOR CABINETS AS REQUIRED BY TYPE AND SIZE OF CABINET AND TRIM STYLE.
2. FASTEN MOUNTING BRACKETS TO STRUCTURE AND CABINETS, SQUARE AND PLUMB.
3. FASTEN CABINETS TO STRUCTURE, SQUARE AND PLUMB.

3.3 ADJUSTING, CLEANING AND PROTECTION

A. ADJUST CABINET DOORS THAT DO NOT SWING OR OPERATE FREELY.

B. REFINISH OR REPLACE CABINETS AND DOORS DAMAGED DURING INSTALLATION.

C. PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS THAT ENSURE THAT CABINETS AND DOORS ARE WITHOUT DAMAGE OR DETERIORATION AT THE TIME OF SUBSTANTIAL COMPLETION.

3.4 FIRE-PROTECTION CABINET SCHEDULE

A. FIRE-PROTECTION CABINET PROVIDE FIRE-PROTECTION CABINET COMPLYING WITH THE FOLLOWING:

1. CONSTRUCTION: NONRATED.
2. CABINET MATERIAL: STEEL-COLD ROLLED STEEL W/ RECOATABLE WHITE POLYESTER FINISH.
3. TYPE: FIRE EXTINGUISHER.
4. MOUNTING: SEMIRECESSED.
5. TRIM STYLE: EXPOSED, 2 INCH.
6. CABINET TRIM MATERIAL: SAME MATERIAL AND FINISH AS CABINET.
7. DOOR MATERIAL: SAME MATERIAL AND FINISH AS CABINET.
8. DOOR STYLE: FULL GLASS W/ TEMPERED SAFETY GLASS.
9. ACCESSORIES: MOUNTING BRACKETS, AND INDENTIFICATION LETTERING.

END OF SECTION 10 44 00

DIVISION 12 - WINDOW TREATMENTS

ROLL-DOWN BLINDS — SECTION 12 21 23

PART 1 - GENERAL

1.1 SUMMARY

A. MANUAL ROLLER SHADES AND HARDWARE.

1.2 SYSTEM DESCRIPTION

A. CLUTCH OPERATED ROLLER SHADES WITH BEAD CHAIN CONTROL.

1.3 SUBMITTALS

A. PRODUCT DATA: SUBMIT AN ELECTRONIC PDF COPY OF MANUFACTURER'S TECHNICAL DATA AND INSTALLATION INSTRUCTIONS.

B. SAMPLES: SUBMIT THREE SAMPLES OF EACH SHADE CLOTH WITH COMPLETE COLOR SWATCH.

C. SHOP DRAWINGS: SUBMIT DRAWINGS OF MECHANICAL PRODUCTS WITH APPROPRIATE DIMENSIONS.

1.4 QUALITY ASSURANCE

A. THE MANUFACTURER OF THESE PRODUCTS SHALL SHOW A MINIMUM OF 20 YEARS DOCUMENTED EXPERIENCE.

B. THE INSTALLER SHALL SHOW A MINIMUM OF 3 YEARS EXPERIENCE WITH THESE SYSTEMS.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. SOS "SUN OR SHADE" A DIVISION OF INSIDE OUTFITTERS, INC.
8333 GREEN MEADOWS DRIVE N., STE B, LEWIS CENTER, OH, 43085
P: 800.742.3372, F: 877.880.3496, E:INFO@SOSSHADES.COM

2.2 MATERIALS

A. SHADE FABRICS: TRANSLUCENT FABRICS HAVE AN OPENNESS FACTOR OF 10%. THE FABRIC SHALL HAVE A HIGH DEGREE OF OPACITY FOR EFFECTIVE CONTROL OF LIGHT. THE FABRIC MUST HAVE SUFFICIENT RIGIDITY TO INSURE STRAIGHT HANGING, RESIST CURL, TWIST, BOWING AND DISTORTION. IT MUST BE DIMENSIONALLY STABLE AND WILL NOT SHRINK OR STRETCH. THE FABRIC IS TO BE COLORFAST AND SHALL NOT BE AFFECTED BY MOISTURE OR HEAT. THE COLOR SHALL BE SELECTED FROM STANDARD COLORS. ALL SEAMS ARE TO BE HEAT-SEALED. SEWING IS NOT ACCEPTED. THE FABRIC COLOR SHALL BE SELECTED FROM THE MANUFACTURER'S STANDARD COLOR LINE.
   SHEERWEAVE 4100 - COLOR PEBBLESTONE
   FABRIC STYLE (10% OPENNESS)

B. TUBE: THE FABRIC SHADES SHALL BE MOUNTED ON TO A 1-1/4", 1-1/2", 2", OR 2-1/2" OR 3:1 DIAMETER ALUMINUM TUBE DEPENDING ON THE WIDTH OF THE SHADE AND FABRIC CHOSEN FOR THE SHADE.

C. BEAD CHAIN CLUTCH: THE CLUTCH INCORPORATES AN ADJUSTABLE SLIP CLUTCH TO CONTROL THE RATE OF FALL FROM FREE RUNNING ZERO FRICTION FACTOR TO A FACTOR OF 100%. THE SHADE MAY BE ADJUSTED TO STOP AND HOLD AT ANY POSITION. THE BE

SECTION 16000 – BASIC ELECTRICAL

1. THE WORK COVERED BY DIVISION 16 CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS (EXCEPT AS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS) REQUIRED TO PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL SYSTEMS. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS TO PREVENT CONFLICTS CAUSING UNNECESSARY EXPENSE OR DELAYS IN THE INSTALLATION OF WORK. WHEN CONFLICTS ARISE, REMOVE AND RELOCATE ITEMS CAUSING SUCH CONFLICTS AT NO ADDITIONAL COST TO THE OWNER. REFER TO OTHER DISCIPLINE'S DRAWINGS, RELEVANT EQUIPMENT DRAWINGS, AND SHOP DRAWINGS TO DETERMINE AVAILABLE CLEARANCES AND POSSIBLE OBSTRUCTIONS. MAKE ANY NECESSARY OFFSETS OR TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, EXISTING EQUIPMENT, ETC. TO FACILITATE INSTALLATION OF THE WORK IN THE MANNER INDICATED.

3. ALL WORK SHALL COMPLY WITH THE LOCALLY ADOPTED ELECTRICAL CODE AND ALL APPLICABLE LAWS, CODES, RECOMMENDATIONS, REGULATIONS, AND INTERIM AMENDMENTS, OF THE GOVERNMENTAL BODIES HAVING JURISDICTION INCLUDING ADA COMPLIANCE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE GOVERNING SAFETY REGULATIONS, INCLUDING OSHA REGULATIONS. ALL SAFETY LIGHTS, GUARDS AND SIGNS REQUIRED FOR THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE PROVIDED BY AND OPERATED BY THE ELECTRICAL CONTRACTOR.

4. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, DEVICES, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT FURNISHED BY OTHERS.

5. ELECTRICAL DESIGN FOR THIS INSTALLATION IS BASED ON FIELD INSPECTIONS AND PREVIOUS DESIGN DRAWINGS FOR THE EXISTING BUILDING. ELECTRICAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. ALLOWANCES ARE TO BE INCLUDED FOR UNFORESEEN EXISTING CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN IS TO BE INCLUDED IN THIS ALLOWANCE.

6. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES. ANY ITEM DAMAGED BY THIS CONTRACTOR IS TO BE REPAIRED IMMEDIATELY AND AT NO COST TO THE OWNER.

7. ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.

8. ALL EQUIPMENT AND COMPONENTS FURNISHED AND/OR INSTALLED SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).

9. TEMPORARY ELECTRICAL SERVICE:

   A. PROVIDE TEMPORARY ELECTRICAL SERVICE FOR POWER AND LIGHTING DURING CONSTRUCTION. MAINTAIN DURING CONSTRUCTION AND REMOVE SERVICE AFTER CONSTRUCTION IS COMPLETED. THE TEMPORARY SYSTEM SHALL CONSIST OF AN ELECTRICAL SERVICE, DISTRIBUTION SYSTEM, LOAD-CENTER PANEL, GROUNDING, 15 AMP AND/OR 20 AMP BRANCH CIRCUITS, GROUNDED TYPE RECEPTACLES AND LIGHTING FIXTURES.

   B. PROVIDE AND INSTALL SUFFICIENT NUMBER OF TEMPORARY LIGHT FIXTURES FOR A SAFE INSTALLATION FOR ALL TRADES THROUGHOUT THE BUILDING. ALL LAMPS FOR GENERAL ILLUMINATION SHALL BE PROTECTED FROM ACCIDENTAL CONTACT OR BREAKAGE BY SUITABLE FIXTURE OR LAMPHOLDER WITH A GUARD. (NO EXCEPTIONS.)

10. WARRANTIES:

   A. CONTRACTOR SHALL WARRANT ALL WORK PERFORMED AND MATERIAL & LABOR PROVIDED UNDER THE CONTRACT AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM SUBSTANTIAL COMPLETION. PROVIDE ALL SERVICES AS REQUIRED TO IMMEDIATELY REPAIR OR REPLACE, AT NO ADDITIONAL COST, ANY DEFECTIVE PART OF THE INSTALLATION RESULTING FROM THE SUPPLY OF FAULTY WORKMANSHIP OR MATERIAL. LACK OF MAINTENANCE, ACCIDENTS, OR CARELESSNESS ON THE PART OF THE OWNER SHALL NOT BE INCLUDED IN THIS WARRANTY.

   B. ALL LAMPS ARE TO BE WARRANTED ACCORDING TO LAMP MANUFACTURER, WHICH IS ALSO BASED ON AVERAGE LIFE DATA FOR EACH SPECIFIC TYPE OF LAMP. PROVIDE LABOR TO REPLACE ALL DEFECTIVE LAMPS THAT ARE WITHIN LAMP MANUFACTURER'S WARRANTY PERIOD.

   C. ALL EQUIPMENT, APPARATUS AND APPLIANCES WHICH ARE SPECIFIED AND/OR COME WITH WARRANTIES LONGER THAN ONE YEAR SHALL BE REGISTERED WITH THE MANUFACTURER IN THE OWNER'S NAME.

11. EXCAVATION:

   A. PROVIDE ALL EXCAVATION AND BACKFILL AS NECESSARY TO INSTALL THE CONDUIT SYSTEMS AS SHOWN ON THE DRAWINGS.

   B. CARE SHALL BE TAKEN IN EXCAVATING THAT WALLS AND FOOTINGS AND ADJACENT LOAD BEARING SOILS ARE NOT DISTURBED IN ANY WAY. WHERE RACEWAYS MUST CROSS UNDER A WALL FOOTING, THE EXCAVATION SHALL BE KEPT AT A MINIMUM.

   C. CONDUIT SHALL BE SUPPORTED DIRECTLY ON UNDISTURBED SOIL, DO NOT EXCAVATE BEYOND INDICATED DEPTH. IF EXISTING SOIL IS UNSUITABLE (SOFT SPOT OR ROCK), EXCAVATE TO SOLID SUBGRADE, OR 6" FOR ROCK, BELOW BOTTOM OF WORK AND PROVIDE SUB-BASE MATERIAL AS REQUIRED.

   D. IMMEDIATELY AFTER INSTALLATION, THE TRENCH SHALL BE CAREFULLY BACKFILLED WITH EARTH FREE FROM CLODS, BRICK, ETC. TO A DEPTH ONE-HALF THE RACEWAY DIAMETER AND THEN FIRMLY TAMPED IN SUCH A MANNER AS NOT TO DISTURB ALIGNMENT OR JOINTS OF THE CONDUIT. THEREAFTER THE BACKFILL SHALL BE TAMPED EVERY VERTICAL FOOT.

12. CUTTING AND PATCHING:

   A. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR PENETRATED WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

   B. PROVIDE CUTTING, PATCHING, AND PATCH PAINTING IN EXISTING STRUCTURES, AS REQUIRED FOR THE INSTALLATION OF WORK OF THIS SECTION. EXTENT OF CUTTING SHALL BE MINIMIZED. USE CORE DRILLS, POWER SAWS, AND OTHER MACHINES WHICH WILL PROVIDE NEAT, MINIMUM OPENINGS. REFER TO STRUCTURAL DRAWINGS FOR LINTELS AND SUPPORTS TO BE FURNISHED BY OTHERS FOR THE ELECTRICAL WORK. ALL OTHER LINTELS AND SUPPORTS REQUIRED FOR THE ELECTRICAL WORK SHALL BE FURNISHED BY DIVISION 16. PATCHING SHALL MATCH AND EQUAL ADJACENT MATERIALS AND SURFACES AND SHALL BE PERFORMED BY CRAFTSMAN SKILLED IN THE RESPECTIVE CRAFT REQUIRED. PATCHED FINISHES SHALL BE APPROVED BY THE ARCHITECT.

   C. ALL PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED AND REPLACED BY THIS CONTRACTOR, TO THE SATISFACTION OF THE AUTHORITIES HAVING REGULATORY JURISDICTION AND BUILDING OWNER.

SECTION 16060 – GROUNDING

1. EXTENT OF ELECTRICAL GROUNDING AND BONDING WORK IS INDICATED BY DRAWINGS AND AS SPECIFIED HEREIN. GROUNDING AND BONDING WORK IS DEFINED TO ENCOMPASS SYSTEMS, CIRCUITS, AND EQUIPMENT.

2. EXCEPT AS OTHERWISE INDICATED, PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING, BUT NOT LIMITED TO, CABLES/WIRES, CONNECTORS, SOLDERLESS LUG TERMINALS, GROUNDING ELECTRODES AND PLATE ELECTRODES, BONDING JUMPER BRAID, AND ADDITIONAL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION. WHERE MORE THAN ONE TYPE COMPONENT PRODUCT MEETS INDICATED REQUIREMENTS, SELECTION IS INSTALLER'S OPTION. WHERE MATERIALS OR COMPONENTS ARE NOT INDICATED, PROVIDE PRODUCTS WHICH COMPLY WITH BUILDING CODES, UL, AND IEEE REQUIREMENTS AND WITH ESTABLISHED INDUSTRY STANDARDS FOR THOSE APPLICATIONS INDICATED.

3. INSTALL ELECTRICAL GROUNDING AND BONDING SYSTEMS AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPLICABLE PORTIONS OF THE BUILDING CODES, NECA'S "STANDARD OF INSTALLATION", AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS.

4. RACEWAY SYSTEMS SHALL NOT BE USED AS GROUNDING METHOD. ALL BRANCH AND FEEDER CONDUITS TO HAVE A GROUNDING CONDUCTOR INSTALLED WITH PHASE AND NEUTRAL CONDUCTORS. SIZE OF GROUND CONDUCTOR TO BE IN ACCORDANCE WITH THE ADOPTED ELECTRICAL CODE. TERMINATE FEEDER AND BRANCH CIRCUIT INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH GROUNDING LUG, BUS, OR BUSHING.

5. INSTALLATION OF ELECTRICAL GROUNDING AND BONDING SYSTEMS:

   A. GROUNDING ELECTRODE CONDUCTORS, WHERE NOT INSTALLED AS PART OF A BRANCH CIRCUIT OR FEEDER, SHALL BE INSTALLED IN PVC CONDUIT, TO PROTECT THE WIRING FROM PHYSICAL DAMAGE.

   B. CONNECT GROUNDING ELECTRODE CONDUCTORS TO METAL COLD WATER PIPE AND ALL OTHER TYPES OF METAL PIPING WITHIN THE BUILDING USING A SUITABLY SIZED GROUND CLAMP. PROVIDE CONNECTIONS TO FLANGED PIPING TO STREET SIDE OF FLANGE. PROVIDE BONDING AS DESCRIBED IN ADOPTED ELECTRICAL CODE INCLUDING BONDING JUMPER AROUND WATER METER.

   C. CONNECT TOGETHER SYSTEM NEUTRAL, SERVICE EQUIPMENT ENCLOSURES, EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND CABLES, RECEPTACLE GROUND CONNECTORS, AND PLUMBING SYSTEMS.

   D. THE UTILITY COMPANY METER SOCKET SHALL BE GROUNDED TO A 1/2" X 10' COPPER CLAD STEEL GROUND ROD WITH COPPER WIRE INSTALLED IN P.V.C. CONDUIT. THE GROUND ROD SHALL BE DRIVEN INTO THE EARTH WITH THE TOP 1'-0" BELOW GRADE, AS NEAR AS POSSIBLE TO THE LOCATION OF THE METER SOCKET WITH THE TOP 1'-0" BELOW FINISHED GRADE.

SECTION 16075 – IDENTIFICATION

1. ENGRAVED, PLASTIC-LAMINATED LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK MELAMINE PLASTIC LAMINATE, 1/16-INCH MINIMUM THICK FOR SIGNS UP TO 20 SQUARE INCHES, OR 8 INCHES IN LENGTH; 1/8-INCH THICK FOR LARGER SIZES. ENGRAVED LEGEND IN WHITE LETTERS ON BLACK FACE AND PUNCHED FOR MECHANICAL FASTENERS.

2. CABLE TIES: FUNGUS-INERT, SELF-EXTINGUISHING, ONE-PIECE, SELF-LOCKING NYLON CABLE TIES, 0.18-INCH MINIMUM WIDTH, 50-LB MINIMUM TENSILE STRENGTH, AND SUITABLE FOR A TEMPERATURE RANGE FROM MINUS 50 F TO 350 F. PROVIDE TIES IN SPECIFIED COLORS WHEN USED FOR COLOR-CODING.

3. SELF ADHESIVE, COMMERCIALLY AVAILABLE ARC FLASH HAZARD LABELS. LABELS TO CONFORM TO THE ADOPTED ELECTRICAL CODE AND A.N.S.I. Z535.4.

4. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR SECONDARY SERVICE, FEEDER, AND BRANCH CIRCUIT CONDUCTORS THROUGHOUT THE PROJECT SECONDARY ELECTRICAL SYSTEM PER WIRES AND CABLING SECTION.

5. APPLY EQUIPMENT IDENTIFICATION LABELS OF ENGRAVED PLASTIC- LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT IN BUILDING, INCLUDING CENTRAL OR MASTER UNIT OF EACH ELECTRICAL SYSTEM. THIS INCLUDES COMMUNICATION/SIGNAL/ALARM SYSTEMS, UNLESS UNIT IS SPECIFIED WITH ITS OWN SELF-EXPLANATORY IDENTIFICATION. EXCEPT AS OTHERWISE INDICATED, PROVIDE SINGLE LINE OF TEXT, WITH 1/4-INCH-HIGH LETTERING ON 1-INCH-HIGH LABEL (1-1/2-INCH-HIGH WHERE TWO LINES ARE REQUIRED), WHITE LETTERING IN BLACK FIELD. TEXT SHALL MATCH TERMINOLOGY AND NUMBERING OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. APPLY LABELS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL EQUIPMENT.

   A. PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES
   B. ELECTRICAL SWITCHGEAR AND SWITCHBOARDS
   C. MOTOR STARTERS AND/OR VFDs FURNISHED BY THIS CONTRACTOR
   D. DISCONNECT SWITCHES
   E. CONTACTORS

SECTION 16075 – IDENTIFICATION

1. ENGRAVED, PLASTIC-LAMINATED LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK MELAMINE PLASTIC LAMINATE, 1/16-INCH MINIMUM THICK FOR SIGNS UP TO 20 SQUARE INCHES, OR 8 INCHES IN LENGTH; 1/8-INCH THICK FOR LARGER SIZES. ENGRAVED LEGEND IN WHITE LETTERS ON BLACK FACE AND PUNCHED FOR MECHANICAL FASTENERS.

2. CABLE TIES: FUNGUS-INERT, SELF-EXTINGUISHING, ONE-PIECE, SELF-LOCKING NYLON CABLE TIES, 0.18-INCH MINIMUM WIDTH, 50-LB MINIMUM TENSILE STRENGTH, AND SUITABLE FOR A TEMPERATURE RANGE FROM MINUS 50 F TO 350 F. PROVIDE TIES IN SPECIFIED COLORS WHEN USED FOR COLOR-CODING.

3. SELF ADHESIVE, COMMERCIALLY AVAILABLE ARC FLASH HAZARD LABELS. LABELS TO CONFORM TO THE ADOPTED ELECTRICAL CODE AND A.N.S.I. Z535.4.

4. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR SECONDARY SERVICE, FEEDER, AND BRANCH CIRCUIT CONDUCTORS THROUGHOUT THE PROJECT SECONDARY ELECTRICAL SYSTEM PER WIRES AND CABLING SECTION.

5. APPLY EQUIPMENT IDENTIFICATION LABELS OF ENGRAVED PLASTIC- LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT IN BUILDING, INCLUDING CENTRAL OR MASTER UNIT OF EACH ELECTRICAL SYSTEM. THIS INCLUDES COMMUNICATION/SIGNAL/ALARM SYSTEMS, UNLESS UNIT IS SPECIFIED WITH ITS OWN SELF-EXPLANATORY IDENTIFICATION. EXCEPT AS OTHERWISE INDICATED, PROVIDE SINGLE LINE OF TEXT, WITH 1/4-INCH-HIGH LETTERING ON 1-INCH-HIGH LABEL (1-1/2-INCH-HIGH WHERE TWO LINES ARE REQUIRED), WHITE LETTERING IN BLACK FIELD. TEXT SHALL MATCH TERMINOLOGY AND NUMBERING OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. APPLY LABELS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL EQUIPMENT.

   A. PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES
   B. ELECTRICAL SWITCHGEAR AND SWITCHBOARDS
   C. MOTOR STARTERS AND/OR VFDs FURNISHED BY THIS CONTRACTOR
   D. DISCONNECT SWITCHES
   E. CONTACTORS

SECTION 16120 – WIRES AND CABLES

1. CONDUCTORS: PROVIDE SOLID CONDUCTORS FOR POWER AND LIGHTING CIRCUITS NO. 10 AWG AND SMALLER. PROVIDE STRANDED CONDUCTORS FOR SIZES NO. 8 AWG AND LARGER.

2. CONDUCTOR MATERIAL: COPPER FOR ALL WIRES AND CABLES.

3. INSULATION: PROVIDE THHN/THWN INSULATION FOR ALL CONDUCTORS NO. 14 AWG THRU NO. 10 AWG. FOR ALL OTHER SIZES PROVIDE THHN/THWN OR XHHW INSULATION AS APPROPRIATE FOR THE LOCATION WHERE INSTALLED.

4. ALUMINUM CONDUCTORS ARE NOT APPROVED OR ACCEPTABLE.

5. ALUMINUM CONDUCTORS:

   A. AT THE CONTRACTOR'S OPTION, ALUMINUM CONDUCTORS WILL BE ALLOWED FOR COPPER SIZES RATED FOR 100 AMPERES AND LARGER BUT, SIZE MUST BE INCREASED TO EQUAL OR EXCEED THE COPPER AMPACITY IN ACCORDANCE WITH ADOPTED ELECTRICAL CODE. RACEWAY AND PULL BOXES MUST BE INCREASED TO CONFORM TO ADOPTED ELECTRICAL CODE. ALL ALUMINUM CONDUCTORS MUST BE MADE BASED ON COMPACT STRANDED, AA-8000 SERIES ALUMINUM ALLOY MATERIAL EQUAL TO "STABILOY" ALCAN CABLE.

   B. IF ALUMINUM CABLE IS TO BE INSTALLED ON THIS PROJECT, CONTRACTOR IS TO NOTIFY ENGINEER IN WRITING, AT TIME OF SUBMITTAL DRAWINGS. CONTRACTOR IS TO LIST ALL FEEDERS THAT WILL BE CHANGED TO ALUMINUM, AND INDICATE THE REVISED ALUMINUM CONDUCTOR SIZE.

   C. CONNECTORS AND TERMINATIONS INSTALLED WITH ALUMINUM-ALLOY CONDUCTORS SHALL BE COMPRESSION TYPE ONLY, AND ONLY THOSE LISTED BY UNDERWRITER'S LABORATORIES STRANDED 486-B AND MARKED "AL7CU" FOR 75C RATED CIRCUITS.

   D. IF THE CONTRACTOR DECIDES TO EXERCISE THE OPTION OF ALUMINUM CONDUCTORS FOR CONNECTIONS TO EQUIPMENT PROVIDED AND/OR INSTALLED BY OTHER TRADES, THEN THIS CONTRACTOR SHALL REIMBURSE THE EQUIPMENT SUPPLIER FOR ANY COST ASSOCIATED WITH THE MODIFICATIONS REQUIRED TO THAT EQUIPMENT.

   E. ENDS OF ALL CONDUCTORS ARE TO BE BRUSHED CLEAN AND PRIOR TO FINAL CONNECTION, EXPOSED PORTION OF CONDUCTOR TO BE COVERED WITH ALUMINUM OXIDE INHIBITOR. CONDUCTOR TERMINATION MADE WITH SET-SCREW TERMINAL LUGS ARE TO BE TORQUED, USING A TORQUE WRENCH, IN ACCORDANCE WITH LUG MANUFACTURER SPECIFICATIONS OR ACCORDING TO UL STANDARD 486B. AT THE COMPLETION OF THE PROJECT CONTRACTOR IS TO CHECK TORQUE VALUES ON ALL ALUMINUM TERMINATIONS. CONTRACTOR IS TO SUBMIT IN WRITING, AT TIME OF RECORD DRAWINGS, A COMPLETE LIST OF APPLIED TORQUE VALUES FOR ALL ALUMINUM TERMINATIONS.

6. VARIABLE FREQUENCY DRIVE CABLES: WHERE A VFD IS INSTALLED, PROVIDE A VFD CABLING SYSTEM FROM THE VFD TO THE CONTROLLED EQUIPMENT MANUFACTURED MEETING THE FOLLOWING SPECIFICATIONS:
   6.1. ASTM B3 AND B8
   6.2. UL 44, UL 1277
   6.3. COLOR CODE PER ICEA S-58-679 METHOD 4
   6.4. IEEE 1202/FT4 FLAME TEST
   6.5. CONDUCTORS SHALL BE CLASS B STRANDED, UNCOATED ANNEALED COPPER; EACH CONDUCTOR SHALL BE INSULATED WITH BLACK POLYETHYLENE. A 5 MIL UNCOATED COPPER TAPE SHIELD, HELICALLY WRAPPED OVER THE TWISTED ASSEMBLY WITH A 50% OVERLAP AND IN CONTACT WITH THE GROUND WIRE. WITH A FLAME RETARDANT PVC JACKET OUTER JACKET.

1. INSTALLATION OF WIRES AND CABLES:

   A. ALL BRANCH CIRCUIT WIRES, FEEDER CABLES, ETC., SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. NO JOINTS SHALL BE MADE EXCEPT IN OUTLET, JUNCTION OR PULL BOXES, PANELBOARD AND SWITCHBOARD GUTTERS. FOR THE SPLICING OF EXISTING FEEDER CONDUCTORS, COMPRESSION TYPE BUTT SPLICES WITH COLD SHRINK INSULATION KITS ARE TO BE USED.

   B. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES. WHERE MANUFACTURER'S TORQUE REQUIREMENTS ARE NOT INDICATED, TIGHTEN CONNECTORS AND TERMINALS TO COMPLY WITH TIGHTENING TORQUE'S SPECIFIED IN UL 486A AND UL 486B.

   C. TERMINALS ON SWITCHES AND CONVENIENCE OUTLETS SHALL NOT BE USED TO "FEED THROUGH" TO THE NEXT SWITCH OR OUTLET. WHERE MORE THAN ONE GROUND, COMMON NEUTRAL, OR COMMON PHASE CONDUCTOR ENTERS A BOX, ALL LIKE CONDUCTORS SHALL BE IN GOOD ELECTRICAL CONTACT WITH EACH OTHER AND THE ARRANGEMENT SHALL BE SUCH, THAT THE DISCONNECTING OR REMOVAL OF A DEVICE FED FROM THE BOX, WILL NOT INTERFERE WITH OR INTERRUPT SERVICE TO THE REMAINDER OF THE BRANCH CIRCUIT WIRING.

208Y/120 VOLTS NORMAL	PHASE	480Y/277V NORMAL
BLACK	A	BROWN
RED	B	ORANGE
BLUE	C	YELLOW
WHITE	NEUTRAL	GRAY
GREEN	GROUND	GREEN
GREEN W/ YELLOW STRIP	ISOLATED GROUND	GREEN W/ YELLOW STRIP

SECTION 16130 – RACEWAYS

1. THIS SECTION INCLUDES RACEWAYS FOR ELECTRICAL WIRING. TYPES OF RACEWAYS IN THIS SECTION INCLUDE THE FOLLOWING:

   A. ELECTRICAL METALLIC TUBING (EMT)
   B. INTERMEDIATE METAL CONDUIT (IMC)
   C. FLEXIBLE METAL CONDUIT
   D. LIQUID-TIGHT FLEXIBLE CONDUIT
   E. RIGID METAL CONDUIT
   F. RIGID NONMETALLIC CONDUIT (PVC)
   G. SURFACE RACEWAYS
   H. WIREWAY
   I. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE

2. WIREWAYS:

   A. ELECTRICAL WIREWAYS SHALL BE OF TYPES, SIZES, AND NUMBER OF CHANNELS AS INDICATED. FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO COUPLINGS, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLD-DOWN STRAPS, AND END CAPS SHALL MATCH AND MATE WITH WIREWAY AS REQUIRED FOR A COMPLETE SYSTEM. WHERE FEATURES ARE NOT INDICATED, SELECT TO FULFILL WIRING REQUIREMENTS AND COMPLY WITH APPLICABLE PROVISIONS OF ADOPTED ELECTRICAL CODE.

4. SURFACE RACEWAYS:

   A. SIZES AND CHANNELS AS INDICATED, MINIMUM SIZE TO BE EQUAL TO WIREMOLD #500 SERIES. PROVIDE FITTINGS THAT MATCH AND MATE WITH RACEWAY. CONSTRUCT OF GALVANIZED STEEL WITH SNAP-ON COVERS, WITH 1/8-INCH MOUNTING SCREW KNOCKOUTS IN BASE APPROXIMATELY 8 INCHES ON-CENTER. FINISH WITH MANUFACTURER'S STANDARD PRIME COATING SUITABLE FOR PAINTING. PROVIDE RACEWAYS OF TYPE SUITABLE FOR EACH APPLICATION REQUIRED.

5. WIRING METHOD:

   A. OUTDOORS: USE THE FOLLOWING WIRING METHODS:
      A.1. EXPOSED: INTERMEDIATE METAL CONDUIT.
      A.2. CONCEALED: INTERMEDIATE METAL CONDUIT.
      A.3. UNDERGROUND, RIGID NONMETAL CONDUIT.
      A.4. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT: LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
      A.5. INDOORS OR OUTDOORS: CONNECTION TO VIBRATING EQUIPMENT AND HYDRAULIC, PNEUMATIC, OR ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT IN MOIST OR HUMID LOCATION OR CORROSIVE ATMOSPHERE, OR WHERE SUBJECT TO WATER SPRAY OR DRIPPING OIL, GREASE, OR WATER: LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

   B. INDOORS: USE THE FOLLOWING WIRING METHODS:
      B.1. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR-OPERATED EQUIPMENT: FLEXIBLE METAL CONDUIT.
      B.2. EXPOSED: ELECTRICAL METALLIC TUBING CONDUIT.
      B.3. CONCEALED: ELECTRICAL METALLIC TUBING.
      B.4. CONCEALED, IN CONCRETE EMBEDDED, STRUCTURAL INTERIOR WALLS, OR ROOF DECK PENETRATIONS: INTERMEDIATE METAL OR RIGID METAL CONDUIT.
      B.5. UNDER CONCRETE FLOOR (SLAB ON GRADE): INTERMEDIATE METAL OR RIGID METAL CONDUIT.

   C. P.V.C. CONDUIT CAN BE INSTALLED BELOW FLOOR SLAB INDOORS, ONLY IF RIGID STEEL ELBOWS ARE USED WHEN PASSING THRU FLOOR SLAB. MINIMUM SIZE P.V.C. CONDUIT THAT CAN BE INSTALLED IS 3/4" UNLESS NOTED OTHERWISE. ALL P.V.C. CONDUIT JOINTS ARE TO BE GLUED AND SEALED TO PREVENT MOISTURE FROM ENTERING RACEWAY SYSTEM. CONDUITS FOUND TO CONTAIN MOISTURE WILL NOT BE REPAIRED OR REPLACED AS REQUIRED PRIOR TO INSTALLATION OF CONDUCTORS.

   D. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE
      D.1. MC AND AC CABLE MAY BE USED IN LIEU OF E.M.T. CONDUIT IF ACCEPTABLE TO LOCAL AUTHORITIES AND INSTALLED PER ELECTRICAL CODE REGARDING SUPPORT, GROUNDING AND CABLE TERMINATIONS. ALL MC AND AC CABLE NOT INSTALLED PER THE ADOPTED CODE SHALL BE REMOVED, REINSTALLED AND CORRECTED AT CONTRACTOR'S EXPENSE WITH NO EXTENSION IN THE CONSTRUCTION SCHEDULE.
      D.2. MC AND AC CABLE MUST BE SUPPORTED AND SECURED BY STAPLES, CABLE TIES, STRAPS, HANGERS, OR SIMILAR FITTINGS, DESIGNED AND INSTALLED SO AS NOT TO DAMAGE THE CABLE.
      D.3. MC AND AC CABLE, WITH FOUR OR LESS CONDUCTORS SIZED NO LARGER THAN 10 AWG, MUST BE SECURED WITHIN 12 IN. OF EVERY OUTLET BOX, JUNCTION BOX, CABINET, OR FITTING AND AT INTERVALS NOT EXCEEDING 6 FT.
      D.4. MC AND AC CABLE MUST BE SUPPORTED AT INTERVALS NOT EXCEEDING 6 FT. CABLES INSTALLED HORIZONTALLY THROUGH WOODEN OR METAL FRAMING MEMBERS ARE CONSIDERED SECURED AND SUPPORTED WHERE SUCH SUPPORT DOESN'T EXCEED 6 FT INTERVALS.
      D.5. MAY NOT BE USED IN EXTERIOR APPLICATIONS

6. CONDUIT SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET OR FITTING, AND BE SO MECHANICALLY AND ELECTRICALLY CONNECTED THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE CONDUIT TO ANOTHER IS SECURED. THE ENTIRE SYSTEMS SHALL BE SECURELY FASTENED IN PLACE WITHIN 3' OF EACH OUTLET OR JUNCTION BOX, CABINET OR FITTING, AND AT INTERVALS NOT EXCEEDING 10', EXCEPT AS OTHERWISE SPECIFIED OR SHOWN. SINGLE CONDUITS FOR FEEDERS SHALL BE HUNG WITH GRINNEL, CRANE, OR EQUAL, MALLEABLE SPLIT RING HANGERS WITH ROD SUSPENSION SPACED NOT OVER 10' APART FROM CONSTRUCTION ABOVE. GROUPS OF HORIZONTAL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE CLAMPED TO UNISTRUT, OR EQUAL, STEEL CHANNELS AND SUSPENDED FROM RODS SUPPORTED FROM STRUCTURE, SPACED NOT OVER 10' APART FROM CONSTRUCTION ABOVE. WHERE POSSIBLE CONDUITS MAY BE CLAMPED DIRECTLY TO THE STEEL JOISTS.

7. USE RACEWAY FITTINGS THAT ARE OF TYPES COMPATIBLE WITH THE ASSOCIATED RACEWAY AND SUITABLE FOR THE USE AND LOCATION. FOR INTERMEDIATE METAL CONDUIT, USE THREADED RIGID STEEL CONDUIT FITTINGS. FOR EMT CONDUITS: FITTINGS ARE TO BE COMPRESSION OR SET SCREW TYPE.

8. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC LINE HAVING NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE NOT LESS THAN 12 INCHES OF SLACK AT EACH END OF THE PULL WIRE.

9. TELEPHONE AND SIGNAL SYSTEM RACEWAYS 2-INCH TRADE SIZE AND SMALLER: IN ADDITION TO THE ABOVE REQUIREMENTS, INSTALL RACEWAYS IN MAXIMUM LENGTHS OF 150 FEET AND WITH A MAXIMUM OF TWO, 90 BENDS OR EQUIVALENT. INSTALL PULL OR JUNCTION BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS.

10. ALL CONDUITS ABOVE LAY-IN CEILING SYSTEM SHALL NOT BE SUPPORTED FROM CEILING SUSPENSION WIRES.

11. PROVIDE 36" MINIMUM RADIUS RIGID STEEL CONDUIT ELBOWS FOR PRIMARY SERVICE CONDUITS UNDER THE TRANSFORMER PAD.

12. CONDUITS CAPPED OUTSIDE OF BUILDING FOR FUTURE ADDITION SHALL BE A MINIMUM OF 1'-6" BELOW FINISH GRADE, CAPPED AND PAINTED WITH BITUMINOUS PAINT, WHICH SHALL BE THOROUGHLY DRY, BEFORE BACKFILL IS INSTALLED.

13. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLES:

   A. ALL HOMERUNS TO PANELBOARDS SHALL REMAIN IN E.M.T. CONDUIT.
   B. MC AND AC CABLES SHALL NOT BE USED IN EXPOSED AREAS.
   C. ALL FITTINGS SHALL BE LISTED FOR USE WITH MC AND AC CABLE USED.
   D. CONDUCTORS IN MC AND AC CABLE SHALL COMPLY WITH SECTION WIRES & CABLES .

SECTION 16135 – CABINETS, BOXES AND FITTINGS

1. THIS SECTION INCLUDES CABINETS, BOXES, AND FITT

SECTION 16140 – WIRING DEVICES

1. THIS SECTION INCLUDES THE FOLLOWING:

   A. RECEPTACLES
   B. LIGHTING AND EQUIPMENT SWITCHES
   C. WALL PLATES
   D. FLOOR SERVICE OUTLETS
   E. OCCUPANCY SENSORS
   F. MANUAL DIMMERS

2. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

   A. WIRING DEVICES & ACCESSORIES:
      A.1. COPPER WIRING DEVICES
      A.2. CROUSE–HINDS CO.
      A.3. HUBBELL INC.
      A.4. LEVITON
      A.5. PASS AND SEYMOUR INC.

   B. FLOOR BOXES:
      B.1. AMERICAN ELECTRIC, STEEL CITY
      B.2. WALKER / WIREMOLD COMPANY
      B.3. RACO, INC., HUBBELL INC.
      B.4. RACEWAY COMPONENTS, INC.

   C. DIMMERS:
      C.1. HUBBELL INC.
      C.5. LEVITON LIGHTING CONTROLS
      C.6. LUTRON LIGHTING

   D. OCCUPANCY SENSOR LIGHTING CONTROL:
      D.1. HUBBELL INC.
      D.2. LEVITON MANUFACTURING INC.
      D.3. WATT STOPPER INC.
      D.4. SENSOR SWITCH
      D.5. GREENGATE

3. WIRING DEVICES:
   A. PROVIDE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED WHICH ARE UL LISTED AND WHICH COMPLY WITH NEMA WD 1 AND OTHER APPLICABLE UL AND NEMA STANDARDS. ALL DEVICES TO BE SPECIFICATION GRADE (HEAVY DUTY U.L. GRADE), WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW, METAL PLASTER EARS AND SIDE TERMINAL SCREWS FOR BACK AND SIDE WIRING.

   B. ALL WIRING DEVICES ARE TO BE PROVIDED BY THE SAME MANUFACTURER UNLESS NOTED OTHERWISE.

   C. ALL WIRING DEVICES AND COVERPLATES SHALL BE:
      C.1. WHITE.
      C.2. WHITE – WHERE INSTALLED IN WHITE CEILINGS.
      C.3. BLACK – WHERE INSTALLED IN DARK CEILINGS.
      C.4. ORANGE – WHERE SUPPLYING A UPS CIRCUIT. (DEVICE ONLY, COVERPLATE SHALL BE AS ABOVE).

   D. RECEPTACLES:
      D.1. DUPLEX RECEPTACLE, 15 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–15R, MEETS FEDERAL SPEC. WC–596–F. LEVITON #5252.

      D.2. SINGLE RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, MEETS FEDERAL SPEC. WC–596–F. LEVITON #5351.

      D.3. DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, MEETS FEDERAL SPEC. WC–596–F. LEVITON #5352.

      D.4. GROUND FAULT INTERRUPTER RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R. UL943 APPROVED, SELF–TESTING, SOLID STATE GROUND FAULT SENSING LEVEL WITH 5 MILLIAMPERES GROUND FAULT TRIP LEVEL. LED INDICATOR LIGHT WITH TEST/RESET BUTTONS THAT MATCH THE COLOR OF THE FACE. LEVITON #G5362–WT*.

      D.5. USB RECEPTACLE, 20A, 125V, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, (2) VERTICAL USB PORTS WITH 3.6A CHARGING CAPACITY (MINIMUM), MEETS FEDERAL SPEC. WC–596–F. LEVITON #T5832
      D.5.1. WHERE SHOWN AS A QUAD RECEPTACLE ON PLANS, PROVIDE (2) USB RECEPTACLES AS SPECIFIED ABOVE.

      D.6. WEATHERPROOF RECEPTACLE SHALL BE A GROUND–FAULT INTERRUPTER WITH THOMAS & BETTS #CKSUV DIE–CAST ALUMINUM SMALL COVER PLATE. LOCATE BOX VERTICAL IN WALL. PLATE TO BE LISTED AND LABELED SUITABLE FOR WET LOCATIONS WHILE IN USE.

      D.7. ISOLATED GROUND DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, FACE WITH ORANGE TRIANGLE, GROUND SCREW ISOLATED FROM MOUNTING YOKE, NEMA CONFIGURATION 5–20RIG. LEVITON #5362–IG.

      D.8. CONTROLLED DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, PERMANENTLY LABELED WITH CONTROLLED SYMBOL, MEETS FEDERAL SPEC. WC–596–F. LEVITON #5362–2.
      D.8.1. WHERE SHOWN AS A QUAD RECEPTACLE ON PLANS, PROVIDE (1) CONTROLLED RECEPTACLE AND (1) DUPLEX RECEPTACLE AS SPECIFIED ABOVE.

      D.9. HEAVY DUTY RECEPTACLES SHALL BE OF THE SAME MANUFACTURER AS THE CONVENIENCE OUTLETS AND HAVE THE RATINGS AND CHARACTERISTICS (VOLTAGE, AMPS, POLES, WIRES) AS SHOWN ON DRAWINGS.

   E. SWITCHES:
      E.1. TOGGLE TYPE SWITCH, 20 AMP, 120/277 VOLT AC SINGLE–POLE, QUITE TYPE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE–WIRED SCREW TERMINALS, MEETS FEDERAL SPEC WS–896. LEVITON #1121–2.
      E.1.1. DOUBLE–POLE, 3–WAY, AND 4–WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE–POLE.

      E.2. KEY TYPE SWITCH, 20 AMP, 120/277 VOLT AC SINGLE–POLE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE–WIRED SCREW TERMINALS, POLISHED METAL TOP AND PROVIDE WITH ONE STEEL KEY. LEVITON #1121–2L.
      E.2.1. DOUBLE–POLE, 3–WAY, AND 4–WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE–POLE.

      E.3. WHEN A LIGHTED HANDLE IS INDICATED WITH SWITCHING DEVICE, PROVIDE SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED 120/277 VOLT. GLOWS WHEN SWITCH IS "OFF". PASS & SEYMOUR #20AC1–CSL.

      E.4. WHEN A PILOT LIGHT IS INDICATED WITH SWITCHING DEVICE, PROVIDE SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED 120/277 VOLT. GLOWS WHEN SWITCH IS "ON". PASS & SEYMOUR #20AC1–RPL.

   F. FLOOR RECEPTACLES:
      F.1. TYPE 'A': HUBBELL #B–2436, RECTANGULAR SINGLE–GANG, WATERTIGHT BOX WITH ONE S–3825 DUPLEX FLAP COVER. BOX COVER PLATE SHALL BE BRASS. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS. EACH FLOOR OUTLET SHALL BE COMPLETE WITH ONE 20 AMP, 125 VOLT DUPLEX BROWN RECEPTACLE AS SPECIFIED UNDER "RECEPTACLES".

      F.2. TYPE 'B': HUBBELL #B–4233, RECTANGULAR DOUBLE–GANG, FULLY ADJUSTABLE, WATERTIGHT BOX WITH ONE S–3825 DUPLEX FLAP COVER COMPLETE WITH ONE 20 AMP, 125 VOLT DUPLEX BROWN RECEPTACLE AS SPECIFIED UNDER "RECEPTACLES". ALSO PROVIDE ONE #S–2625 COVER PLATE WITH ONE #S–3067 SPLIT NOZZLE FOR PROTECTION OF TELEPHONE/COMPUTER CABLES. BOX COVER PLATES SHALL BE BRASS. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS.

      F.3. TYPE 'C': HUBBELL #B–2436, RECTANGULAR SINGLE–GANG BOX, BRASS PLATE #S2425 WITH 3/4 PLUG OPENING FOR CONNECTION OF FLEXIBLE CONDUIT FROM EQUIPMENT. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS.

   G. WALL PLATES: SINGLE AND COMBINATION, OF TYPES, SIZES, AND WITH GANGING AND CUTOUTS AS INDICATED. PROVIDE PLATES WHICH MATE WITH WIRING DEVICES TO WHICH ATTACHED. PROVIDE METAL SCREWS FOR SECURING PLATES TO DEVICES WITH SCREW HEADS TO MATCH FINISH OF PLATES. PROVIDE WALL PLATES WITH ENGRAVED LEGEND WHERE INDICATED. CONFORM TO REQUIREMENTS

SECTION 16140 – WIRING DEVICES

OF SECTION "ELECTRICAL IDENTIFICATION."

   H. OCCUPANCY SENSOR LIGHTING CONTROL:
      H.1. WALL MOUNTED OCCUPANCY SENSOR TO BE PASSIVE INFRARED COVERING 1200 (OR 900) SQUARE FEET, RATED FOR 120/277 VOLT, 1500 WATTS MAXIMUM LOAD OF INCANDESCENT OR FLUORESCENT LIGHT. SENSOR TO HAVE 180° FIELD OF VIEW, OFF/AUTO/ON SLIDE SWITCH, ADJUSTABLE TIME–OUT FROM 1 TO 20 MINUTES, AND LED MOVEMENT INDICATOR PILOT. SENSOR TO BE MOUNTED IN A SINGLE–GANG WALL BOX AT SAME ELEVATION AS STANDARD WALL SWITCHES.
      H.1.1. WATT STOPPER #PW–100 SINGLE REALY (OR #PW–200 DUAL RELAY).

      H.2. CEILING MOUNTED OCCUPANCY SENSOR TO BE DUAL TECHNOLOGY WITH ULTRASONIC & PASSIVE INFRARED TYPE SENSORS. SENSORS TO HAVE TWO–WAY OR ONE–WAY DISTRIBUTION DEPENDING ON MOUNTING LOCATION CAPABLE OF ADJUSTING THE SENSITIVITY AND LENGTH OF OPERATION BASED ON PAST ACTIVITY LEVEL OF THE AREA'S OCCUPANTS. CUSTOM PERFORMANCE CONTROLS TO BE LOCATED BEHIND THE SENSOR LENS FOR FIELD MODIFICATION OF SENSOR DESIGN. UNIT TO BE MOUNTED TO RECESSED JUNCTION BOX.
      H.2.1. WATT STOPPER #DT–355, 800W @ 120V (1200W @ 277V)

   I. MANUAL DIMMERS:
      I.1. PROVIDE AND INSTALL AC DIMMER CONTROLS FOR LIGHTING FIXTURES; WATTAGE AS INDICATED BELOW, 120 VOLT, 60 HERTZ, WITH PRESET SLIDE CONTROLS AND PUSHBUTTON FOR ON/OFF CONTROLS, SINGLE–POLE.:
      I.1.1. ID1 = 1000 WATTS, LEVITON #IP110–1LX (120/277V INCANDESCENT)
      I.1.2. D1 = 1200/1500 VA, LEVITON #IP710–LFZ (120/277V LED)
      I.1.3. LD2 = 400 VA, LEVITON #IPE04–1LX (ELECTRONIC LOW VOLTAGE)
      I.1.4. LD3 = 1000 VA, LEVITON #IPM10–1LX (MAGNETIC LOW VOLTAGE)
      I.1.5. FD1 = 1200/1500 VA, LEVITON #IP710–DLX (120/277V FLUORESCENT 0–10V)
      I.1.6. FD2 = 1000 VA, LEVITON #IPX10–10 (120V FLUORESCENT LINE VOLTAGE)
      I.1.7. FD3 = 1200 VA, LEVITON #IPX12–70 (277V FLUORESCENT LINE VOLTAGE)

4. INSTALLATION OF WIRING DEVICES AND ACCESSORIES:

   A. GROUPS OF SWITCHES OR SWITCH AND OUTLET COMBINATIONS SHALL BE MOUNTED UNDER ONE COVER PLATE. COVER PLATES SHALL FIT THE DEVICES SECURELY AND SHALL COVER THE WALL OPENING COMPLETELY TO PROVIDE A NEAT AND FINISHED APPEARANCE FLUSH WITH SURROUNDING SURFACES.

   B. TERMINALS ON ALL WIRING DEVICES SHALL NOT BE USED TO FEED–THROUGH TO THE NEXT DEVICES.

   C. INSTALL WALL–MOUNTED RECEPTACLES WITH GROUND SLOT UP.

   D. RECEPTACLE MOUNTED ABOVE COUNTER–TOP TO BE INSTALLED HORIZONTAL, WITH LONG DIMENSION PARALLEL TO FLOOR AND COUNTER–TOP.

SECTION 16180 – FUSES

1. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF ONE OF THE FOLLOWING (FOR EACH TYPE AND RATING OF OVERCURRENT PROTECTIVE DEVICE):

   A. BUSSMANN DIV; MCGRAW_EDISON CO.
   B. FERRAZ SHAWMUT, INC.
   C. LITTELFUSE, INC.

2. EXCEPT AS OTHERWISE INDICATED, PROVIDE FUSES OF TYPES, SIZES, RATINGS, AND AVERAGE TIME/CURRENT AND PEAK LET–THROUGH CURRENT CHARACTERISTICS INDICATED, WHICH COMPLY WITH MANUFACTURER'S STANDARD DESIGN, MATERIALS, AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED PRODUCT INFORMATION, AND WITH INDUSTRY STANDARDS AND CONFIGURATIONS. ALL FUSES TO BE FOR USE WITH FUSE REJECTION CLIPS.

3. ALL FUSES FOR THIS PROJECT SHALL BE OF THE SAME MANUFACTURER TO INSURE SELECTIVE COORDINATION.

4. EXCEPT WHERE NOTED OTHERWISE, THREE (3) SPARE FUSES OF EACH SIZE INSTALLED SHALL BE PROVIDED TO THE OWNER.

5. INSTALL FUSES WITH MANUFACTURER'S NAMETAG FACING OUTWARD.

6. SERVICE ENTRANCE AND FEEDER CIRCUITS 601 AMPERES AND LARGER, FUSES SHALL BE BOLT–ON U.L. LISTED CLASS L, CURRENT–LIMITING WITH 200,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING.

7. FEEDER CIRCUITS, EXCEPT MOTOR CIRCUITS, 600 AMPERES AND SMALLER SHALL BE PLUG–IN CARTRIDGE U.L. CLASS RK–1, CURRENT–LIMITING WITH 200,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING.

8. MOTOR, TRANSFORMERS, AND INDUCTIVE TYPE CIRCUITS 600 AMPERES AND SMALLER SHALL BE PLUG–IN CARTRIDGE U.L. CLASS RK–5 DUAL–ELEMENT WITH TIME DELAY. THEY SHALL ALSO HAVE CURRENT–LIMITING LINKS AND 200,000 AMPERES INTERRUPTING RATING. FUSE REDUCERS SHALL BE USED WHERE SWITCH FUSE CLIPS ARE SPACED LARGER THAN FUSE SIZE SHOWN ON DRAWING.

9. PLUG FUSES FOR INDIVIDUAL MOTOR PROTECTION SHALL BE BUSSMANN FUSTAT, DUAL–ELEMENT, 10,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING, TYPE "S" WITH FUSTAT ADAPTER SIZED FOR PLUG–FUSE INSTALLED. SIZE OF FUSE TO BE ACCORDING TO SPECIFICATIONS FOR "DISCONNECT SWITCHES".

SECTION 16190 – SUPPORTING DEVICES

1. THIS SECTION INCLUDES SECURE SUPPORT FROM THE BUILDING STRUCTURE FOR ELECTRICAL ITEMS BY MEANS OF HANGERS, SUPPORTS, ANCHORS, SLEEVES, INSERTS, SEALS, AND ASSOCIATED FASTENINGS.

2. COATING: SUPPORTS, SUPPORT HARDWARE, AND FASTENERS SHALL BE PROTECTED WITH ZINC COATING OR WITH TREATMENT OF EQUIVALENT CORROSION RESISTANCE USING APPROVED ALTERNATIVE TREATMENT, FINISH, OR INHERENT MATERIAL CHARACTERISTIC. PRODUCTS FOR USE OUTDOORS SHALL BE HOT–DIP GALVANIZED.

3. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

4. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS BY SEPARATE PIPE HANGERS. SPRING STEEL FASTENERS MAY BE USED IN LIEU OF HANGERS ONLY FOR 3/4–INCH AND SMALLER RACEWAYS SERVING LIGHTING AND RECEPTACLE BRANCH CIRCUITS ABOVE SUSPENDED CEILINGS ONLY. FOR HANGER RODS WITH SPRING STEEL FASTENERS, USE 1/4–INCH–DIAMETER OR LARGER THREADED STEEL. USE SPRING STEEL FASTENERS THAT ARE SPECIFICALLY DESIGNED FOR SUPPORTING SINGLE CONDUITS OR TUBING. CONDUITS ABOVE LAY–IN CEILING SYSTEM SHALL NOT BE SUPPORTED FROM CEILING SUSPENSION WIRES.

5. INSTALL INDIVIDUAL AND MULTIPLE (TRAPEZE) RACEWAY HANGERS AND RISER CLAMPS AS NECESSARY TO SUPPORT RACEWAYS. PROVIDE U–BOLTS, CLAMPS, ATTACHMENTS AND OTHER HARDWARE NECESSARY FOR HANGER ASSEMBLY AND FOR SECURING HANGER RODS AND CONDUITS.

6. SUPPORT PARALLEL RUNS OF HORIZONTAL RACEWAYS TOGETHER ON TRAPEZE–TYPE HANGERS

7. DO NOT CUT HOLES IN REINFORCED CONCRETE BEAMS OR CUT REINFORCING BARS IN CONCRETE WITH OUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

8. UNLESS OTHERWISE INDICATED, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE BUILDING STRUCTURE, INCLUDING BUT NOT LIMITED TO CONDUITS, RACEWAYS, CABLES, CABLE TRAYS, BUSWAYS, CABINETS, PANELBOARDS, TRANSFORMERS, BOXES, DISCONNECT SWITCHES, AND CONTROL COMPONENTS.

SECTION 16410 – DISCONNECTS, CONTACTORS

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

   A. GENERAL ELECTRIC CO.
   B. SQUARE D COMPANY.
   C. EATON CORPORATION
   D. SIEMENS, I.T.E.
   E. ALLEN–BRADLEY CO.
   F. FURNAS CO.

2. TEMPERATURE RATINGS: ALL CONDUCTOR TERMINALS AND EQUIPMENT ENCLOSURES TO BE U.L. LISTED FOR USE WITH MINIMUM 75C RATED CONDUCTORS.

3. DISCONNECT SWITCHES:

   A. PROVIDE CIRCUIT AND MOTOR DISCONNECT SWITCHES OF TYPES, SIZES AND ELECTRICAL CHARACTERISTICS INDICATED ON DRAWING. FUSIBLE OR NON–FUSED TYPE, RATED 250 OR 600 VOLTS, 60 HZ, 2– OR 3–POLES, SOLID NEUTRAL; AND INCORPORATING QUICK–MAKE, QUICK–BREAK TYPE SWITCHES; CONSTRUCT SO THAT SWITCH BLADES ARE VISIBLE IN OFF POSITION WITH DOOR OPEN. SWITCH SHALL HAVE A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR WHEN HANDLE IS IN THE "ON" POSITION, AND TO PREVENT CLOSING OF THE SWITCH MECHANISM WITH THE DOOR OPEN. EQUIP WITH OPERATING HANDLE WHICH IS INTEGRAL PART OF ENCLOSURE BASE AND WHOSE POSITION IS EASILY RECOGNIZABLE, AND IS PADLOCKABLE IN OFF POSITION; CONSTRUCT CURRENT CARRYING PARTS OF HIGH–CONDUCTIVITY COPPER, WITH SILVER–TUNGSTEN TYPE SWITCH CONTACTS, AND POSITIVE PRESSURE TYPE REINFORCED FUSE CLIPS. PROVIDE SWITCH IN NEMA 1 OR NEMA TYPE 3R ENCLOSURE AS INDICATED OR REQUIRED. INSTALL ENGRAVED PLASTIC PLATE AS TO WHAT EACH SWITCH CONTROLS.

   B. EQUIPMENT REQUIRING A DISCONNECTING MEANS, RATED FOR 120 OR 208 VOLT SINGLE PHASE, UP TO 30 AMPERES MAY BE PROVIDED WITH A SNAP–SWITCH TYPE TOGGLE DEVICE AT THE EQUIPMENT. THE DEVICE IS TO HAVE AN AMPERE AND VOLTAGE RATING EQUAL TO OR GREATER THAN THE BRANCH CIRCUIT FEEDING THE EQUIPMENT. IF EQUIPMENT IS MOTOR RELATED, THEN THE SWITCH MUST BE HORSEPOWER RATED. REFER TO SECTION 16140 FOR MINIMUM SPECIFICATIONS FOR TOGGLE SWITCHES. SWITCHES LOCATED OUTDOORS OR IN COOLER/FREEZER APPLICATIONS ARE TO BE MOUNTED IN A DIE–CAST ALUMINUM DEVICE BOX WITH GASKETED WEATHERPROOF COVER PLATE.

4. RELAYS AND CONTACTORS:

   A. GENERAL POWER PURPOSE RELAYS, FOR CONTROL OF MISCELLANEOUS MOTORS, TO BE PROVIDED AND INSTALLED WITH NUMBER OF POLES AND COIL VOLTAGE AS SHOWN ON DRAWINGS. RELAY TO BE HORSEPOWER RATED FOR THE MOTOR LOAD TO WHICH IT CONTROLS. RELAY TO BE MOUNTED IN A NEMA TYPE 1 ENCLOSURE.

   B. LIGHTING CONTACTORS TO BE PROVIDED AND INSTALLED WITH THE NUMBER OF POLES, COIL VOLTAGE, AND LOAD CONTACT RATINGS AS SHOWN ON DRAWINGS. CONTACTORS TO BE PROVIDED WITH SILVER ALLOY DOUBLE BREAK CONTACTS RATED FOR TUNGSTEN AND BALLAST LIGHTING LOADS. CONTACTS TO BE CONVERTIBLE WITH NORMALLY OPEN AND NORMALLY CLOSED INDICATORS. RELAY TO BE MOUNTED IN A NEMA TYPE 1 ENCLOSURE.

6. INSTALLATION OF DISCONNECTS AND STARTERS:

   A. SURFACE MOUNT ON WALLS OR COLUMNS APPROXIMATELY 5'–0" TO CENTERLINE ABOVE THE FLOOR WHERE POSSIBLE.

   B. DISCONNECT SWITCHES MOUNTED ON ROOFTOP AIR CONDITIONING UNITS TO BE CAULKED BETWEEN SWITCH AND UNIT TO PROVIDE WEATHERPROOF SEAL. ELECTRICAL CONTRACTOR TO VERIFY EXACT MOUNTING LOCATION ON UNIT SO AS NOT TO COVER UP ANY REMOVABLE PANELS.

   C. WHEN RELAYS OR CONTACTORS ARE INDICATED TO BE LOCATED ABOVE THE CEILING, THE EQUIPMENT IS TO BE READILY ACCESSIBLE AND SOUND INSULATED FROM THE MOUNTING SUPPORTS.

SECTION 16470 – PANELBOARDS

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PANELBOARD PRODUCTS OF ONE OF THE FOLLOWING (FOR EACH TYPE AND RATING OF PANELBOARD AND ENCLOSURE):

   A. GENERAL ELECTRIC COMPANY
   B. SQUARE D COMPANY
   C. EATON CORPORATION
   D. SIEMEN'S, I.T.E.

2. POWER DISTRIBUTION PANELS: PROVIDE DEAD–FRONT SAFETY–TYPE DISTRIBUTION PANELBOARDS RATED 208/120, 3–PHASE, 4–WIRE. SHORT CIRCUIT RATING OF PANEL AND DEVICES TO BE 22,000 RMS MINIMUM UNLESS NOTED OTHERWISE ON THE DRAWINGS. PANELBOARDS SWITCHING AND PROTECTIVE DEVICES IN SOLDERLESS PRESSURE–TYPE LINE SIDE CONNECTORS APPROVED FOR COPPER CONDUCTORS.

3. 120/208 VOLT LIGHTING AND APPLIANCE PANELBOARDS: PROVIDE DEAD–FRONT SAFETY TYPE LIGHTING AND APPLIANCE PANELBOARDS AS INDICATED, WITH SWITCHING AND PROTECTIVE DEVICES IN QUANTITIES, RATINGS, TYPES AND ARRANGEMENTS SHOWN, WITH ANTI–TURN SOLDERLESS PRESSURE TYPE LUG CONNECTORS. APPROVED FOR USE WITH COPPER CONDUCTORS; CONSTRUCT UNIT FOR CONNECTING FEEDERS TO PANEL; EQUIP WITH COPPER, COPPER PLATED OR ALUMINUM BUS BARS, FULL–SIZED NEUTRAL BAR, WITH BOLT–IN TYPE HEAVY–DUTY, QUICK–MAKE, QUICK–BREAK, SINGLE–POLE CIRCUIT–BREAKERS, WITH TOGGLE HANDLES THAT INDICATE WHEN TRIPPED. PROVIDE SUITABLE LUGS ON NEUTRAL BUS FOR EACH OUTGOING FEEDER REQUIRED; AND PROVIDE BARE UNINSULATED GROUNDING BARS SUITABLE FOR BOLTING TO ENCLOSURES. SELECT ENCLOSURES FABRICATED BY SAME MANUFACTURER AS PANELBOARDS, WHICH MATE AND MATCH PROPERLY WITH PANELBOARDS. MINIMUM INTERRUPTING CAPACITY OF MANUFACTURED PANELBOARDS TO BE 10,000 A.I.C. UNLESS NOTED OTHERWISE ON THE DRAWINGS.

4. MOLDED–CASE CIRCUIT BREAKERS: PROVIDE FACTORY ASSEMBLED, MOLDED CASE CIRCUIT BREAKERS OF FRAME SIZE INDICATED. PROVIDE BREAKERS WITH PERMANENT THERMAL AND INSTANTANEOUS MAGNETIC TRIPS IN EACH POLE AND AMPERE RATING AS INDICATED. CONSTRUCT WITH OVER CENTER, TRIP–FREE, TOGGLE TYPE OPERATING MECHANISMS WITH QUICK–MAKE, QUICK–BREAK ACTION AND POSITIVE HANDLE INDICATION. CONSTRUCT BREAKERS FOR MOUNTING AND OPERATING IN ANY PHYSICAL POSITION AND OPERATING IN AN AMBIENT TEMPERATURE OF 40C. PROVIDE BREAKERS WITH MECHANICAL SCREW TYPE REMOVABLE CONNECTOR LUGS, AL/CU RATED. ALL BREAKERS TO BE BOLT–IN TYPE CONSTRUCTION. ALL BREAKERS TO BE UL489 LISTED.

   A. ALL SINGLE POLE BREAKERS TO BE RATED FOR "SWITCHING DUTY" (SWD) AND FOR OPERATION ON FLUORESCENT LIGHTING SOURCES.

   B. ALL CIRCUIT BREAKERS PROTECTING HIGH INTENSITY DISCHARGE (HID) LIGHTING TO BE RATED AND LABELED HID FOR OPERATION ON H.I.D. LIGHTING SOURCES

   C. CIRCUIT BREAKERS USED ON HEATING, AIR CONDITIONING, OR REFRIGERATION EQUIPMENT SHALL BE TYPE HACR AND U.L. LISTED FOR SUCH USE.

5. PANELBOARD MANUFACTURER TO PROVIDE A COMPLETE "ARC FLASH STUDY". ALL SUBMITTALS WILL BE REJECTED UNLESS THIS STUDY IS PROVIDED AT THE TIME OF SHOP DRAWING REVIEW.

8-11-23

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project
LOUISIANA KITCHEN 19 72
POPEYES

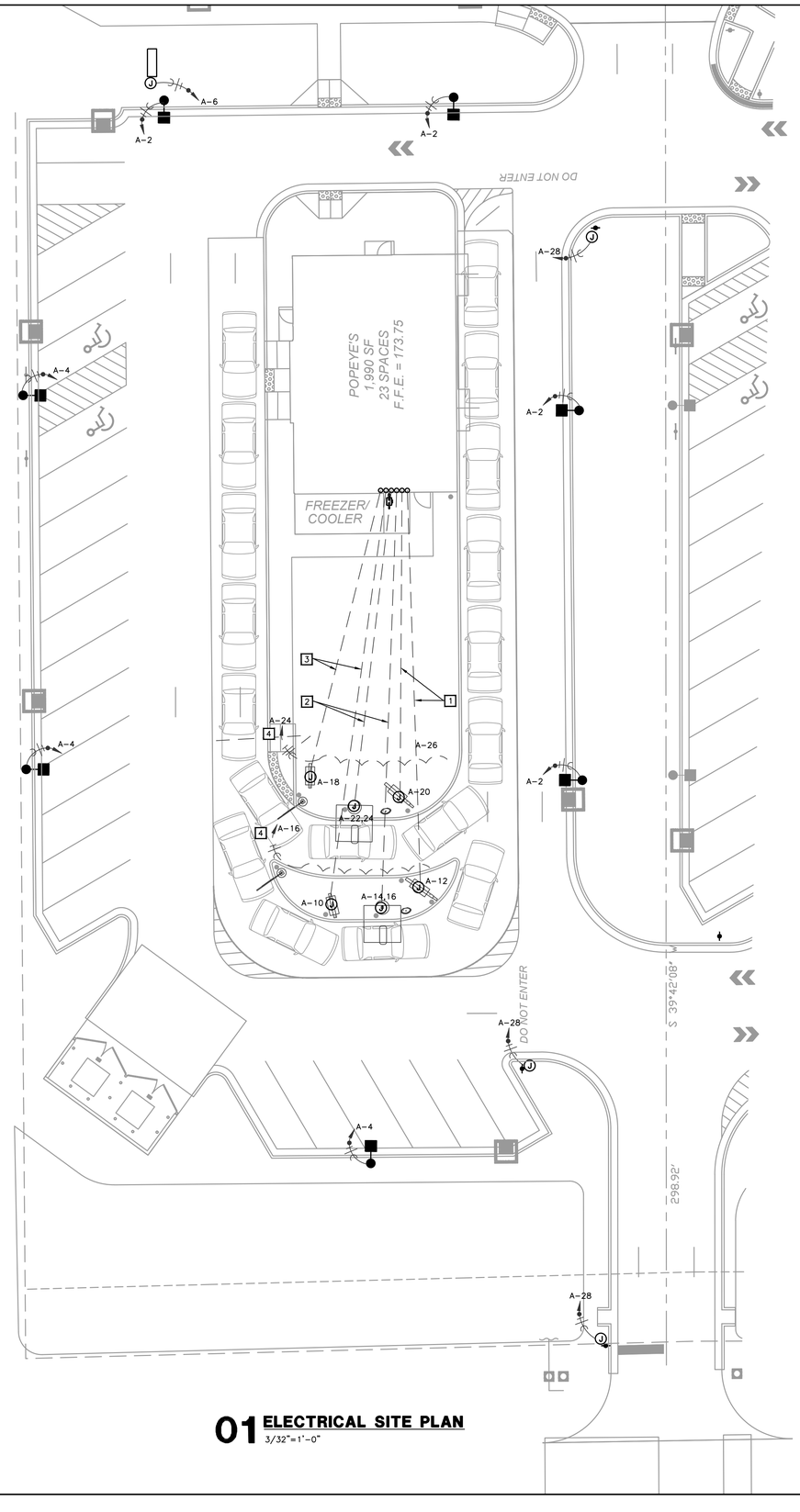
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ELECTRICAL SPECIFICATIONS

Drawn	Checked
RRR	TAP
Scale	**Date**
	8/11/23
Project No.	**Drawing No.**
G23-29	ES.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS. STORE NO. 14185



01 ELECTRICAL SITE PLAN

3/32"=1'-0"

ELECTRICAL KEYNOTES

1. PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO OUTDOOR MENUBOARD.
2. PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO ORDER PEDESTAL AND DETECTOR LOOP.
3. PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO PRE ORDER MENUBOARD.
4. PROVIDE POWER TO INDEPENDENT STANDING DRIVE THRU LIGHT POSTS. CONFIRM CONNECTION WITH LIGHT POST MANUFACTURER (ENTERA BRANDING).

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Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
SITE PLAN

Drawn	Checked
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	8/11/23
Project No.	Drawing No.
G23-29	ES1.0

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022106 TIMOTHY A. PAYNE
8-11-23

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

ELECTRICAL SYMBOLS LEGEND

5 3 1	HOME RUN TO PANEL. CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED ALONG WITH ISOLATED GROUND CONDUCTOR IF APPLICABLE.
1	PARTIAL CIRCUIT
	CONDUIT INSTALLED CONCEALED ABOVE CEILING OR IN WALL
— — —	CONDUIT INSTALLED CONCEALED BELOW FLOOR SLAB OR UNDERGROUND
----DC----	CONDUIT INSTALLED WITH DIRECT CURRENT POWER WIRING
	CONDUIT TURNED UP OR DOWN AS NOTED
$	SINGLE POLE SWITCH, +3'-10" OR AS NOTED
$3	THREE-WAY SWITCH, +3'-10" OR AS NOTED
$WP	WEATHERPROOF TOGGLE SWITCH, +3'-10" OR AS NOTED
$K	KEYED SWITCH, +3'-10" OR AS NOTED
OCS	WALL MOUNTED OCCUPANCY SENSOR, +3'-10" OR AS NOTED
OS	CEILING MOUNTED OCCUPANCY SENSOR
VCS	WALL MOUNTED VACANCY SENSOR, +3'-10" OR AS NOTED
VS	CEILING MOUNTED VACANCY SENSOR
PS	CEILING MOUNTED INTERIOR DAYLIGHT HARVESTING PHOTOCELL SENSOR
PP	POWER PACK, INSTALLED ABOVE ACCESSIBLE CEILING
	SIMPLEX RECEPTACLE, +18" OR AS NOTED
IG	ISOLATED GROUND SIMPLEX RECEPTACLE, +18" OR AS NOTED
	DUPLEX RECEPTACLE, +18" OR AS NOTED
IG	ISOLATED GROUND DUPLEX RECEPTACLE, +18" OR AS NOTED
	CONTROLLED DUPLEX RECEPTACLE, +18" OR AS NOTED
	QUADRUPLEX RECEPTACLE, +18" OR AS NOTED
	ISOLATED GROUND QUADRUPLEX RECEPTACLE, +18" OR AS NOTED
	QUADRUPLEX RECEPTACLE WITH ONE OUTLET CONTROLLED, +18" OR AS NOTED
C C	GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED
TR TR	TAMPER RESISTANT RECEPTACLE, +18" OR AS NOTED
WP WP	WEATHERPROOF GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED
	RECEPTACLE INSTALLED HORIZONTALLY, BOTTOM AT +6" ABOVE COUNTER TOP
	RECEPTACLE INSTALLED FLUSH IN CEILING
	ISOLATED GROUND RECEPTACLE INSTALLED FLUSH IN CEILING
	SPECIAL RECEPTACLE, NEMA STYLE AS NOTED, +18" OR AS NOTED
J	JUNCTION BOX
	DISCONNECT SWITCH, TOP AT +6'-0" OR AS NOTED
	DISCONNECT SWITCH PROVIDED WITH EQUIPMENT.
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
	MOTOR CONNECTION
C	LIGHTING CONTACTOR, INSTALLED AS NOTED
T	TIME CLOCK, +6'-2" OR AS NOTED
R	CONTROL OR POWER RELAY, INSTALLED AS NOTED
	PUSHBUTTON, TOP AT +4'-6" OR AS NOTED
CH	DOOR BELL CHIME, +8'-0" OR AS NOTED
TR	CONTROL TRANSFORMER, INSTALLED AS NOTED
TSWH	THERMOSTAT, TEMPERATURE SENSOR, CARBON DIOXIDE SENSOR AND HUMIDISTAT PROVIDED BY MECHANICAL CONTRACTOR, +3'-10" OR AS NOTED
EOD	ELECTRICALLY OPERATED DAMPER, PROVIDED BY MECHANICAL CONTRACTOR
	DATA OUTLET, +18" WITH 3/4" CONDUIT TO ABOVE CEILING
	DATA OUTLET, +6" ABOVE COUNTER WITH 3/4" CONDUIT TO ABOVE CEILING
	TELEPHONE/DATA OUTLET, +18" WITH 1" CONDUIT TO ABOVE CEILING
	TELEPHONE/DATA OUTLET, +6" ABOVE COUNTER WITH 1" CONDUIT TO ABOVE CEILING
FCP	FIRE ALARM CONTROL PANEL, FLUSH MOUNTED, TOP AT +6'-0"
F	MANUAL FIRE ALARM PULL STATION, +3'-10" PER ADA
	FIRE ALARM HORN AND 75cd STROBE, +80" TO BOTTOM OF DEVICE PER ADA
S	STROBE ONLY (75cd UNO), +80" TO BOTTOM OF DEVICE PER ADA
	FIRE ALARM HORN AND 115cd STROBE, CEILING MOUNTED
	STROBE ONLY (115cd UNO), CEILING MOUNTED
	AREA TYPE PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED, OR AS NOTED
	DUCT TYPE PHOTOELECTRIC SMOKE DETECTOR WITH SAMPLING TUBES AND REMOTE INDICATOR LIGHT MOUNTED FLUSH IN CEILING BELOW DETECTOR
R	FIRE ALARM SYSTEM RELAY
FS	SPRINKLER FLOW SWITCH, PROVIDED BY PLUMBING CONTRACTOR
TS	SPRINKLER TAMPER SWITCH, PROVIDED BY PLUMBING CONTRACTOR
	FIRE SPRINKLER SYSTEM BELL (GONG), +10'-0" AFG
FSD	COMBINATION FIRE/SMOKE DAMPER PROVIDED BY MECHANICAL CONTRACTOR
AFF/AFG	ABOVE FINISHED FLOOR/GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BAS	BUILDING AUTOMATION SYSTEM
EC	ELECTRICAL CONTRACTOR
FA	FIRE ALARM
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
NL	NIGHT LIGHT
NF	NON-FUSED
PC	PLUMBING CONTRACTOR
TYP	TYPICAL
WP	WEATHERPROOF

SYMBOLS LEGEND NOTES:
MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.

GENERAL ELECTRICAL NOTES

A. INCLUDE ALLOWANCE FOR UNFORESEEN CONDITIONS THAT MAY AFFECT THE SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN SHALL BE INCLUDED IN THE ALLOWANCE.

B. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND CONTACTORS SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR MINIMUM OF 75°C CONDUCTOR TERMINATION.

C. ELECTRICAL DESIGN IS BASED ON INSTALLATION OF 75°C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT U.L. LISTED FOR MINIMUM 75°C. CONDUCTORS TERMINATED ON EQUIPMENT WITH LOWER RATING (60°C) OR NO RATING SHOWN SHALL HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO ADOPTED ELECTRICAL CODE AND UL/CUL NO. 489 REQUIREMENTS.

D. CONDUIT INSTALLED INDOORS SHALL BE ELECTRICAL METALLIC TUBING (EMT), MINIMUM 1/2" OR AS NOTED.

E. CONDUIT INSTALLED BELOW SLAB SHALL BE RIGID STEEL, IMC, PVC OR HDPE, MINIMUM 3/4". IF PVC OR HDPE IS USED, TRANSITION TO RIGID STEEL BEFORE TURNING UP AND PENETRATING FLOOR SLAB.

F. CONDUCTORS SHALL BE MINIMUM #12 THHN/THWN COPPER UNLESS NOTED OTHERWISE ON PLANS OR IN SPECIFICATIONS. BRANCH CIRCUITS SHALL BE PROVIDED WITH (2) #12 CONDUCTORS AND (1) #12 EQUIPMENT GROUND CONDUCTOR UNLESS NOTED OTHERWISE.

G. BRANCH CIRCUITS SHOWN WITH TWO GROUNDING CONDUCTORS SHALL HAVE ONE EQUIPMENT GROUND CONDUCTOR (GREEN) AND ONE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIP) INSTALLED IN RACEWAY.

H. DIRECT CURRENT WIRING SHALL BE (2) #10 IN 1/2" CONDUIT UNLESS NOTED OTHERWISE.

I. CONTROL VOLTAGE WIRING SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.

J. THERMOSTATS, TEMPERATURE SENSORS, CARBON DIOXIDE SENSORS AND HUMIDISTATS: UNLESS NOTED OTHERWISE, PROVIDE WALL BOX AT +3'-10" AFF WITH 1/2" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS AND PULLSTRING.

K. PROVIDE FLEXIBLE CONNECTIONS ONLY FOR FINAL CONNECTION TO EQUIPMENT, 6'-0" MAXIMUM LENGTH. PROVIDE LIQUID TIGHT FLEXIBLE CONNECTION AT EXTERIOR LOCATIONS AND WHERE EXPOSURE TO MOISTURE IS POSSIBLE.

L. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE.

M. ALL RACEWAYS SHALL CONTAIN A GROUNDING ELECTRODE SIZED PER THE ADOPTED ELECTRICAL CODE.

N. COORDINATE WORK ABOVE THE CEILING WITH OTHER TRADES TO PROVIDE THE GREATEST POSSIBLE CLEARANCE. CONDUIT RUNS SHALL BE RUN THROUGH TRUSSES WHERE POSSIBLE.

O. VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON CONSTRUCTION DOCUMENTS PRIOR TO FINAL PLACEMENT.

P. ALL RECESSED PANELBOARDS SHALL BE INSTALLED WITH MINIMUM OF (3) 3/4" CONDUITS STUBBED UP TO ACCESSIBLE CEILING SPACE FOR FUTURE USE.

Q. ALL PANELBOARDS, SWITCHBOARDS AND LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT. MARKING SHALL BE SELF ADHESIVE, COMMERCIAL LABEL CONFORMING TO ADOPTED CODES.

R. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR. IF THE REACH IS OVER AN OBSTRUCTION BETWEEN 20" AND 25" IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 44" FOR FORWARD APPROACH OR 46" FOR SIDE APPROACH, PROVIDED THE OBSTRUCTION IS NO MORE THAN 24" IN DEPTH. OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25" FROM THE WALL BENEATH A CONTROL

S. TERMS:

SHALL – ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.

FURNISH – CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING.

INSTALL – CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND/OR TEST EQUIPMENT FURNISHED BY HIM OR OTHERS.

PROVIDE – CONTRACTOR SHALL FURNISH AND INSTALL.

LIGHTING GENERAL NOTES

A. CONNECT EXIT SIGNS, EMERGENCY AND NIGHT LIGHTS TO UNSWITCHED LIGHTING CIRCUIT, NOT CONTROLLED BY OCCUPANCY SENSORS, SWITCHES OR CONTACTORS.

B. PROVIDE DEDICATED NEUTRAL WITH ALL DIMMING SYSTEM CIRCUITS. NO COMMON NEUTRALS SHALL BE ALLOWED.

C. REFER TO "RECESSED LIGHTING FIXTURE SUPPORT DETAIL" FOR INFORMATION ON SUPPORT OF ALL RECESSED LIGHT FIXTURES.

D. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND DETAILS FOR LOCATION OF ALL LIGHTING FIXTURES AND ALL OTHER EQUIPMENT INSTALLED IN THE CEILING SYSTEM. VERIFY MOUNTING HEIGHTS AND FINISHES WITH ARCHITECT PRIOR TO ROUGH-IN.

E. REFER TO POWER PLANS FOR LOCATIONS OF ELECTRICAL EQUIPMENT.

F. PROVIDE (2) ADDITIONAL #12 CONDUCTORS FOR ALL 0-10V DIMMING CIRCUITS.

SECURITY SYSTEM GENERAL NOTES

A. PROVIDE 120V CONNECTIONS TO THE FOLLOWING SYSTEMS:
A.A. CCTV HEAD END EQUIPMENT
A.B. BURGLAR ALARM PANEL & SYSTEM
A.C. SECURITY SYSTEM (INCLUDING SECURITY CAMERAS)

B. PROVIDE EXTERIOR TRENCHING AND CONDUIT WITH PULL STRINGS AS REQUIRED FOR OUTDOOR SECURITY CAMERA INSTALLATIONS. PROVIDE BACK BOX MOUNTED ON NEARBY SITE POLE OR BUILDING SURFACE WITH PROVISIONS FOR POWER AND LOW VOLTAGE (COAXIAL) CONNECTIONS.

C. SECURITY VENDOR TO FURNISH ALL SECURITY EQUIPMENT AND LOW VOLTAGE CABLING. COORDINATE EXACT SCOPE OF INSTALLATION IN FIELD.

D. SECURITY VENDOR TO SET UP, TEST, AND TRAIN RESTAURANT MANAGEMENT/ PERSONNEL ON CCTV AND BURGLAR ALARM SYSTEMS.

E. CONFIRM EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES PRIOR TO SECURITY EQUIPMENT ROUGH-IN WITH SECURITY VENDOR AND POPEYES CONSTRUCTION MANAGER.

SECURITY INSTALLATION NOTES

A. PROGRAMMING SEQUENCE SET-UP AT THE NCCC

B. OUTDOOR CAMERAS (WHERE PRESENT):
B.A. OUTDOOR POLE MOUNT 15' ABOVE FINISHED PAVEMENT
B.B. GROUND ISOLATION TRANSFORMERS
B.C. SECURITY VENDOR TO RUN FLEX CONDUIT INSIDE LIGHT POLES. EC TO RUN CONDUIT FROM RESTAURANT TO BASE OF LIGHT POLE AND MOUNT JUNCTION BOX 15' ABOVE FINISHED PAVEMENT ON POLE. ORIENT VIEW TO DRIVE-UP AND SIDE DOOR.
B.D. CAMERA ORIENTATIONS:
A-1: VIEW BACK DOOR, MENU BOARD & REAR AREA
A-2: VIEW OF FRONT ENTRY DOOR
A-3: VIEW OF SIDE ENTRY DOOR
A-4: VIEW OF DRIVE-THRU MENU BOARD
A-5: VIEW OF DRIVE-THRU AREA

C. INDOOR CAMERAS
C.A. INDOOR CEILING MOUNT IN TINTED DOME
C.B. FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY DROPPED OUT OF TILE
C.C. CAMERA ORIENTATIONS:
B-1 : VIEW OF SIDE CUSTOMER ENTRANCE, AND SALES COUNTER
B-2 : VIEW SALES COUNTER AND RESTROOM AREA
B-3 : VIEW SALES COUNTER & SAFE AREA
B-4 : VIEW FRONT CUSTOMER ENTRANCE AND RESTROOM AREA
B-5 : VIEW OF SAFE AND SALES AREA
B-6 : VIEW OF BACK ENTRANCE
B-7 : VIEW OF PREP AREA
B-8 : VIEW OF OFFICE AREA
B-9 : VIEW OF COOK LINE
B-10: VIEW OF KITCHEN
B-11: VIEW OF WALK-IN BOX AND STORAGE AREA

D. OFFICE AREA
D.A. BAC- BURGLAR ALARM CONTROL-VISTA 20SEUL
D.B. D-VCR
D.C. E-VCR:
D.D. F-MONITOR:

E. QUICK REFERENCE SHEETS
E.A. ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN EMPLOYEE ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE AREA PER CUSTOMER INSTRUCTION

F. FOR LOCATIONS WITH 6 OR MORE CAMERAS: ADD MULTIPLEXER

G. LTC 2641/60-PLACE ON SECURITY LOCK FOR NO TAMPER

H. FOR LOCATIONS WITH 4 CAMERAS OR LESS:

I. ADD VIDQUAD 4 CHANNEL LTC 2272/60

J. HOLD UP BUTTON 441494 SERIES LATCHING HUB

K. MANAGER AREA-36" AFF OUT OF SITE FROM FRONT COUNTER

L. DRIVE-THRU WINDOW-18" AFF & OUT OF SITE FROM OUTSIDE

M. FRYER/PREP AREA
M.A. STROBE LIGHT-AS SL-401B-BLUE STROBE MOUNT BEHIND MENU BOARD.
M.A.A. STROBE LIGHT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN
M.B. SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH STROBE BEHIND MENU BOARD.
M.B.A. SOUNDER WILL SOUND WHEN BACK DOOR IS OPENED.
M.B.B. MANAGER WILL SILENCE ST SOUNDER AT KEYPAD AFTER 1ST TONE
M.C. MOTION DETECTOR-AP 669 PIR-360 MOTION MOUNT IN STOVE AREA.
M.C.A. N.A.MOTION DETECTOR RADIUS TO INCLUDE DRIVE-UP WINDOW AREA AND GENERAL REAR AREA.

N. LOBBY/PERIMETER AREA/BACK OF HOUSE
N.A. KEYPAD
N.A.A. MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM LOBBY
N.B. FG 1025 GLASS BREAK
N.B.A. GLASS BREAK FOR LOBBY GLAZING. PROVIDE ONE ON EACH SIDE OF BUILDING. COORDINATE EXACT DEVICE LOCATION AND INSTALLATION.
N.C. B4039 DOOR CONTACT
N.C.A. PROVIDE FOR ALL EXTERIOR DOORS. BACK DOOR CONTACT TO ACT AS ALARM POINT FOR REAR "OPEN DOOR" ALARM. SOUNDER AND BLUE STROBE TO ACTIVATE WHEN BACK DOOR IS OPEN.
N.D. 3050CT SERIES HOLD-UP PANIC BUTTON
N.D.A. LATCHING HUB IN COOLER/FREEZER. MOUNT 18" AFF ON HINGE SIDE OF DOOR SUB UP IN CONDUIT
N.E. POINT OF CONNECTION TO NKL SAFE
N.E.A. PIGTAIL PROVIDED BY NKL SAFE

O. POPEYES ADD ON MODIFICATION NAMES AND PHONE NUMBERS
O.A. INSTALLER PLEASE CONTACT POPEYES CONSTRUCTION MANAGER FOR ANY ADD-ONS OR MODIFICATIONS TO YOUR JOB. THEY WILL CONTACT THE NATIONAL ACCOUNT MANAGER FOR APPROVALS/PAPERWORK.

POWER GENERAL NOTES

A. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT, CONDUIT STUB-UPS AND POWER CONNECTIONS PRIOR TO ROUGH-IN.

B. VERIFY EXACT LOCATION, MOUNTING HEIGHTS AND CONDUIT ROUTING FOR ALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS AND CO_2 SENSORS PRIOR TO ROUGH-IN.

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. COORDINATE PROVISIONS FOR CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING OF FANS, MOTORS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

D. MOUNT DEVICES INSTALLED ON EQUIPMENT ON NON-REMOVABLE PANEL. COORDINATE LOCATION PRIOR TO COMMENCING ROUGH-IN WORK.

E. REFER TO FOOD SERVICE DRAWINGS SHEET K1 FOR TAG LOCATIONS NOT SHOWN THIS SET.

F. REFER TO EQUIPMENT SPECIFICATIONS FOR DATA AND POWER REQUIREMENTS AND LOCATIONS OF ALL MENU BOARDS AND SIGNS.

G. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES WITH EQUIPMENT SUPPLIED PRIOR TO INSTALLATION.

H. ALL EQUIPMENT ELECTRICAL OUTLETS ARE DIMENSIONED TO CENTERLINE OF BOX FROM ABOVE FINISHED FLOOR.

I. ELECTRICAL CONTRACTOR TO PROVIDE CORD & PLUG CONNECTIONS FOR EQUIPMENT AS REQUIRED.

J. ALL 120V, 20A OUTLETS IN THE FOOD PREP AREA SHALL BE GROUND FAULT INTERRUPT TYPE.

K. BEFORE PHONE IS INSTALLED THE FOLLOWING NEED TO BE IN PLACE – CONDUIT AND PULL STRING AND BACK BOARD (GROUNDED) ON FIRE RETARDANT WALL.

L. KVS 3 ON BACK LINE NEEDS TO BE A POLE MOUNT.

M. PROVIDE "UP" OUTLET AT ROOFTOP EQUIPMENT.

N. ROUTE ALL CONDUIT ROOF PENETRATIONS OUTSIDE OF CURB. DO NOT PENETRATE BOTTOM OF RTU UNITS AND EXHAUST FAN CURBS.

LOW VOLTAGE GENERAL NOTES

A. ALL P.O.S. (POINT OF SALE) CIRCUITS SHALL HAVE AN ISOLATED GROUND WIRE BACK TO THE PANEL. ALL P.O.S. EQUIPMENT SHALL BE WIRED INDEPENDENTLY OF ANY NON-P.O.S. EQUIPMENT.

B. ALL RECEPTACLES FOR P.O.S. EQUIPMENT SHALL BE ISOLATED GROUND WITH SURGE SUPPRESSOR TYPE. ALL RECEPTACLES FOR P.O.S. EQUIPMENT SHALL BE SINGLE UNIT, UNLESS A DUPLEX RECEPTACLE CAN BE USED TO SUPPLY TWO P.O.S. UNITS. DUPLEX RECEPTACLES MAY BE USED IN THE MANAGER'S OFFICE FOR NON-P.O.S. EQUIPMENT (COMPUTER, MUSIC, FIRE ALARM, SECURITY, ETC.).

C. ALL CIRCUITS FOR P.O.S EQUIPMENT SHALL BE CONNECTED TO THE SAME PHASE OF POWER IN THE PANEL. ALL BRANCH CIRCUIT BREAKERS SUPPLYING P.O.S. EQUIPMENT SHALL HAVE LOCKING HANDLE DEVICES.

D. EACH RECEPTACLE TYPE (LOCKING OR STRAIGHT BLADE) SHALL MATCH THAT OF THE EQUIPMENT FURNISHED. WHERE P.O.S. EQUIPMENT IS FURNISHED WITHOUT A PLUG THE RECEPTACLE SHALL BE LOCKING TYPE. COORDINATE RECEPTACLE TYPES WITH THE P.O.S. EQUIPMENT SUPPLIER.

SECURITY INSTALLATION ACCEPTANCE FORM/ CHECKLIST

FOR INSTALL SITE MODIFICATIONS (SUCH AS DEVICE PLACEMENT CHANGES FROM DRAWINGS), CUSTOMER MUST INITIAL BELOW TO SHOW APPROVAL OF SITE MODIFICATION.

CAMERAS

A-CAMERA : FOR LOCATIONS WITH OUTDOOR CAMERAS

OUTDOOR POLE MOUNT 15' ABOVE FINISHED PAVEMENT

YES_____N/A_____MODIFY PER SITE_____

GROUND ISOLATION TRANSFORMERS

YES_____N/A_____MODIFY PER SITE_____

ADT TO RUN CONDUIT INSIDE LIGHT POLES-EC TO RUN CONDUIT FROM RESTAURANT TO BASE OF LIGHT POLE & MOUNT JUNCTION BOX 15' ABOVE FINISHED PAVEMENT ON POLE

YES_____N/A_____MODIFY PER SITE_____

A-1; VIEW DRIVE-UP AND SIDE DOOR

YES_____N/A_____MODIFY PER SITE_____

A-2: VIEW BACK DOOR, MENU BOARD & REAR AREA

YES_____N/A_____MODIFY PER SITE_____

A-3: VIEW SIDE DOOR AREA OPPOSITE SIDE OF BUILDING FROM DRIVE-THRU

YES_____N/A_____MODIFY PER SITE_____

B-CAMERA: FOR LOCATIONS WITH INDOOR CAMERAS INDOOR CEILING MOUNT IN TINTED DOME

YES_____N/A_____MODIFY PER SITE_____

FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY DROPPED OUT OF TILE

YES_____N/A_____MODIFY PER SITE_____

B-1: VIEW FRONT DOORS, RESTROOM AREA & SALES COUNTER

YES_____N/A_____MODIFY PER SITE_____

B-2: VIEW DRIVE-THRU REGISTER & WINDOW AREA

YES_____N/A_____MODIFY PER SITE_____

B-3: VIEW SALES COUNTER & SAFE AREA

YES_____N/A_____MODIFY PER SITE_____

B-4: VIEW BACK DOOR & COOLER/FREEZER AREA

YES_____N/A_____MODIFY PER SITE_____

B-5: 360 VIEW

YES_____N/A_____MODIFY PER SITE_____

OFFICE AREA

D-VCR LOCK BOX: TC3922 SERIES

YES_____N/A_____MODIFY PER SITE_____

E-VCR: LTC 3924 SERIES PLACE ON SECURITY LOCK FOR NO TAMPER

YES_____N/A_____MODIFY PER SITE_____

QUICK REFERENCE SHEETS

ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN EMPLOYEE ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE AREA PER CUSTOMER INSTRUCTION

YES_____N/A_____MODIFY PER SITE_____

VCR INSTRUCTION SHEET(2) 1-REVIEW & 1-RECORD-TO BE MOUNTED ON WALL CLOSEST TO VCR

YES_____N/A_____MODIFY PER SITE_____

FOR LOCATIONS WITH 6 OR MORE CAMERAS: ADD MULTIPLEXER

LTC 2641/60-PLACE ON SECURITY LOCK FOR NO TAMPER

YES_____N/A_____MODIFY PER SITE_____

FOR LOCATIONS WITH 4 CAMERAS OR LESS:

ADD VIDQUAD 4 CHANNEL LTC 2272/60

YES_____N/A_____MODIFY PER SITE_____

HUB: HOLD UP BUTTON 441494 SERIES LATCHING HUB

MANAGER AREA-36" AFF OUT OF SITE FROM FRONT COUNTER

YES_____N/A_____MODIFY PER SITE_____

DRIVE-THRU WINDOW-18" AFF & OUT OF SITE FROM OUTSIDE

YES_____N/A_____MODIFY PER SITE_____

LOBBY/PERIMETER AREA/BACK OF HOUSE

KP: KEYPAD-MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM LOBBY

YES_____N/A_____MODIFY PER SITE_____

GB: FG 1025 GLASS BREAK- LOBBY GLASS ONE EACH SIDE OF BUILDING SEE DRAWING FOR DEVICE PLACEMENT

YES_____N/A_____MODIFY PER SITE_____

C: B4039 CONTACT-ALL EXTERIOR DOORS

YES_____N/A_____MODIFY PER SITE_____

BACK DOOR CONTACT TO ACT AS ALARM POINT FOR BACK DOOR ALARM-24 HOUR LOCATION POINT-SOUNDER & BLUE STROBE TO ACTIVATE WHEN BACK DOOR IS OPEN

YES_____N/A_____MODIFY PER SITE_____

POC: POINT OF CONNECTION TO NKL SAFE-PIGTAIL PROVIDED BY NKL SAFE

YES_____N/A_____MODIFY PER SITE_____

FRYER/PREP AREA

SL: STROBE LIGHT-AS SL-401B-BLUE STROBE MOUNT BEHIND MENU BOARD, IT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN

YES_____N/A_____MODIFY PER SITE_____

S: SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH STROBE BEHIND MENU BOARD, IT WILL SOUND WHEN BACK DOOR IS OPENED, MANAGER WILL TONE SILENCE SOUNDER AT KEYPAD AFTER 1

YES_____N/A_____MODIFY PER SITE_____

MD: MOTION DETECTOR-AP 669 PIR – 360 MOTION MOUNT IN STOVE AREA TO GET ARE FROM DRIVE-UP WINDOW AND GENERAL REAR AREA

YES_____N/A_____MODIFY PER SITE_____

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

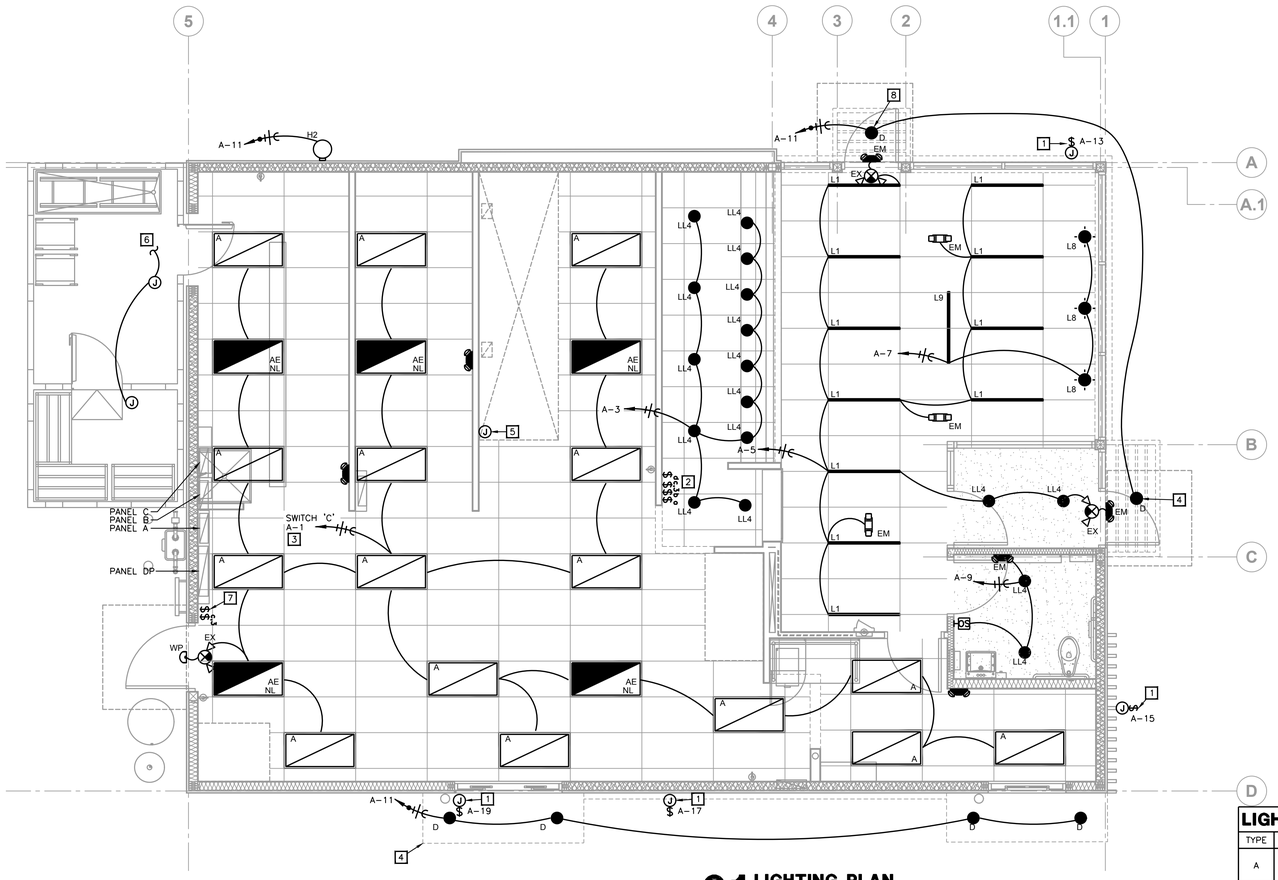
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ELECTRICAL GENERAL NOTES AND LEGEND

Drawn	Checked
RRR	TAP
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	E1.0

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022106 TIMOTHY A. PAYNE
8-11-23

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



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

ELECTRICAL KEYNOTES

1. PROVIDE WEATHERPROOF JUNCTION BOX AND TOGGLE TYPE 20A-1P DISCONNECT SWITCH IN AN ACCESSIBLE LOCATION FOR SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH SIGN CONTRACTOR. VERIFY LOCATION PRIOR TO ROUGH-IN.
2. LOCATION OF LIGHTING SWITCH BANK. REFER TO SWITCH BANK ELEVATION ON SHEET E3.1 FOR ADDITIONAL INFORMATION.
3. RECIRCULATION PUMP WILL BE POWERED FROM KITCHEN LIGHTING CIRCUIT.
4. VERIFY ELECTRICAL CONNECTION REQUIREMENTS FOR CANOPY LIGHTING WITH CANOPY SUPPLIER AND EXTERIOR LIGHTING SPECIFICATIONS.
5. JUNCTION BOX ON HOOD FOR CONNECTION TO PRE-WIRED HOOD LIGHTS. CONNECT TO KITCHEN LIGHTING CIRCUIT.
6. PROVIDE POWER TO WALK-IN-COOLER/FREEZER LIGHTING.
7. TIME CLOCK OVERRIDE SWITCH.
8. FIXTURES IN ENTRANCE CANOPY TO BE WIRED THROUGH WOOD SUPPORT HOLDING PENDANT LIGHT. EACH FIXTURE TO HAVE JUNCTION BOX ON INTERIOR OF WALL.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS & BALLAST	MOUNTING	VOLTS	WATTS	REMARKS
A	2X4 LED TROFFER	BOH LIGHTING: 24-FPL1-LED-5000L-DIM10-MVOLT-35-85	3500K LED	SURFACE	120	52	
AE	2X4 LED TROFFER W/ BATTERY BACKUP	BOH LIGHTING: 24-FPL1-LED-5000L-DIM10-MVOLT-35-85-0-EMG-LED-20W	3500K LED	SURFACE	120	52	
A1	2X4 LED TROFFER	BOH LIGHTING: 24-FPL1-LED-3500L-DIM10-MVOLT-35-85	3500K LED	SURFACE	120	36	
A1E	2X4 LED TROFFER W/ BATTERY BACKUP	BOH LIGHTING: 24-FPL1-LED-3500L-DIM10-MVOLT-35-85-0-EMG-LED-20W	3500K LED	SURFACE	120	36	
L8	PENDANT ACCENT LED	HERMITAGE: H-CS14GRL	3500K LED	PENDANT	120	12	
L8	PENDANT ACCENT LED	COMMERCIAL LIGHTING: H-CS14GRL	3500K LED	PENDANT	120	12	ALTERNATE VENDOR
L1	LED STRIP LIGHT	ARMSTRONG LIGHTING: TBFL-MW-41-15-X-A-W-UNV	3500K LED STRIP	SURFACE	120	30	
L9	PENDANT ACCENT LED	HERMITAGE: H-HLP2STPNSLN	3500K LED STRIP	PENDANT	120	18	
L9	PENDANT ACCENT LED	COMMERCIAL LIGHTING: H-HLP2STPNSLN	3500K LED STRIP	PENDANT	120	18	ALTERNATE VENDOR
LL4	6" RECESSED DOWNLIGHT	HERMITAGE: LD6IC-AT-DIMTR-120	3500K LED	RECESSED	120	11.5	
LL4	6" RECESSED DOWNLIGHT	COMMERCIAL LIGHTING: LD6IC-AT-DIMTR-120	3500K LED	RECESSED	120	11.5	ALTERNATE VENDOR
EX	LED EMERGENCY LIGHT	EXITRONICS: VLED-U-WH-EL90R	N/A	WALL	120	5	
EM	LED EMERGENCY LIGHT	EXITRONICS: LED-90	N/A	WALL	120	5	
WP	WALL PACK W/ PHOTOCELL	WESTGATE: WES-LESW20W50KP	LED EM LIGHT	WALL	120	20	
D	RECESSED DOWNLIGHT	COMMERCIAL LIGHTING: DAL-RGR4-CC-BK	5000K LED	RECESSED	120	14	
H	LED GOOSENECKS	HERMITAGE: 93102318	3000K LED	WALL MOUNT	120	38	
H1	LED OUTDOOR SCONCE	COMMERCIAL LIGHTING: OUTDOOR SCONCE 1	LED	PENDANT	120	100	
H2	LED ARCHITECTURAL TUBE LIGHT	COMMERCIAL LIGHTING: DS-WD05-F-40B	4000K LED	WALL MOUNT	120	50	
P1	LED POLE LIGHT	HUBBELL LIGHTING: RAR2-320L-165-5K7-4W-UNV-ASQ-DBS	5000K LED	POLE MOUNT	UNV	165	

NORTH CAROLINA PROFESSIONAL SEAL 022106 ENGINEER TIMOTHY A. PAYNE
8-11-23

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Project
LOUISIANA KITCHEN 19 72
POPEYES

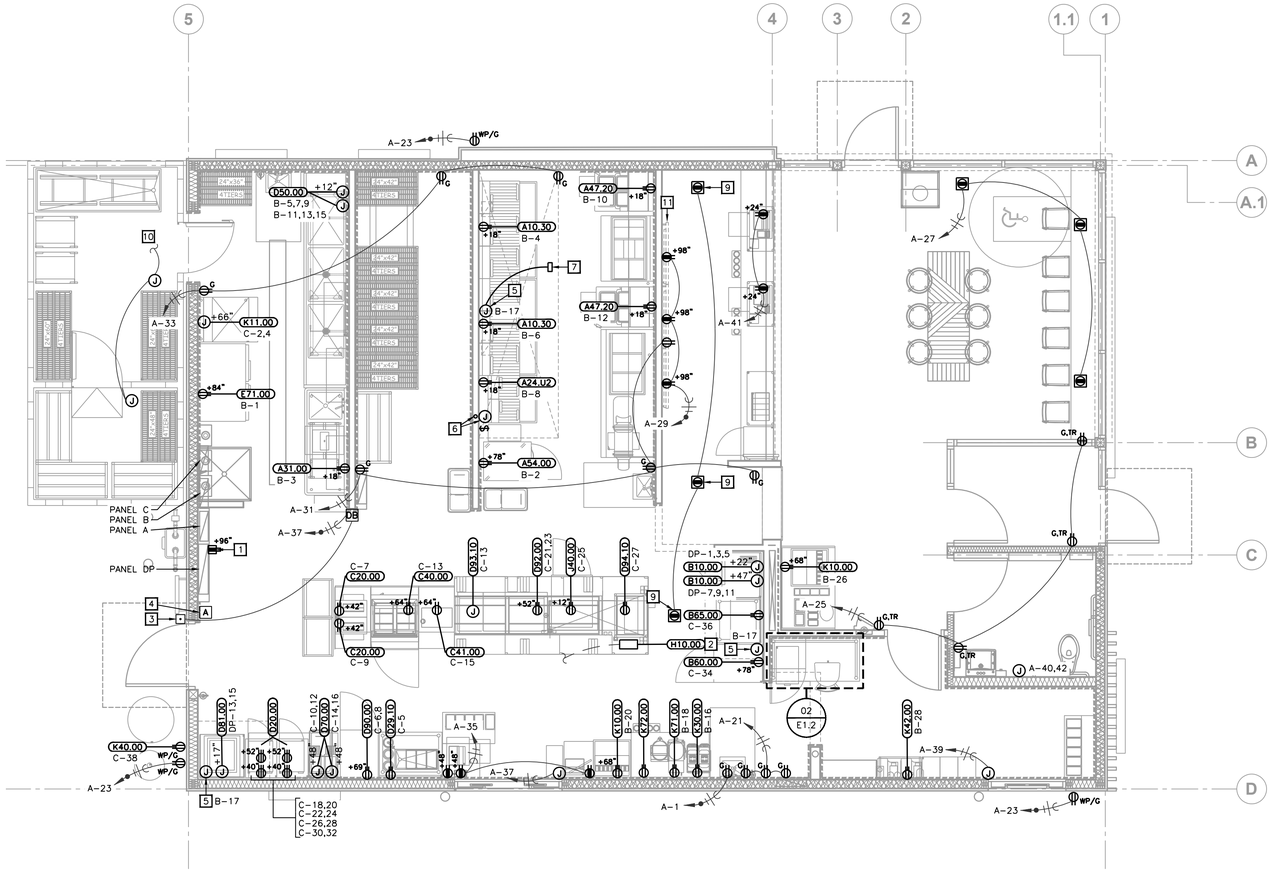
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ELECTRICAL LIGHTING PLAN

Drawn	Checked
RRR	TAP
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	E1.1

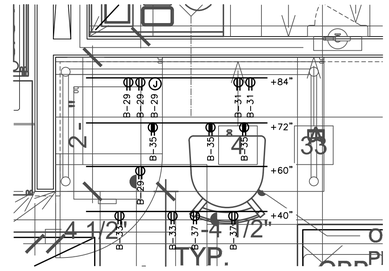
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



01 POWER PLAN
1/4"=1'-0"

ELECTRICAL KEYNOTES

1. PROVIDE DOUBLE DUPLEX RECEPTACLE ADJACENT TO TELEPHONE BOARD. PROVIDE #6 CU GROUND TO SERVICE ENTRANCE GROUND. SEE ARCHITECTURAL ELEVATIONS.
2. ALL POWER FOR ISLAND KITCHEN EQUIPMENT TO RUN THROUGH LOAD CENTER H10.00. CONDUIT TO RUN UNDER SLAB AND STUB AT H10.00.
3. SERVICE SIGN AND PUSHBUTTON FOR DOORBELL.
4. E.C. TO WIRE AND CONNECT REMOTE ANSUL PULLSTATION.
5. E.C. TO INSTALL AND WIRE RELAY CONTROL PANEL PACKAGE FOR HOOD EXHAUST FANS HEF-1 AND HEF-2. PROVIDE POWER AND INTERLOCK CONTROL WIRING FOR HP1-F CONTROL PANEL AND HOOD FIRE SUPPRESSION SYSTEM. SEE EXHAUST HOOD WIRING DETAIL SHEET E3.2.
6. HOOD ANSUL FIRE SUPPRESSION SYSTEM. PROVIDE 3/4" CONDUIT STUBBED ABOVE CEILING.
7. "ON/OFF" SELECTOR SWITCH AND PILOT LIGHT IN NEMA 4X STAINLESS STEEL ENCLOSURE MOUNTED ON THE FACE OF THE HOOD. PROVIDED BY HOOD MANUFACTURER.
8. OFFICE EXHAUST FAN SHALL BE CONNECTED TO OPERATE WITH AREA LIGHTING. INTERLOCK EXHAUST FAN WITH LIGHTS.
9. PROVIDE CEILING OUTLET WITH ISOLATED GROUND RECEPTACLES SUPPORTED FROM BUILDING STRUCTURE FOR VIDEO MONITOR, PRINTER, AND/OR HEADSET. VERIFY EXACT REQUIREMENTS AND LOCATION.
10. POWER CONNECTION TO WALK-IN FREEZER, EVAP, DEFROSTER, HEAT TAPE, AND DOOR HEATER.
11. POWER FOR MENUBOARDS. REFER TO "MONITOR BRACKET DETAIL" ON SHEET E3.1 FOR MORE INFORMATION.
12. CEILING MOUNTED SHOW WINDOW RECEPTACLE.
13. SEE DETAIL 07, E3.1 FOR DRIVE-THRU AUDIO AND TIMERS DIAGRAM.

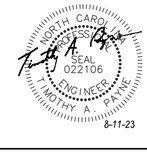


02 MANAGER'S DESK POWER PLAN
3/4"=1'-0"

KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT MARK	ITEM DESCRIPTION	VOLTAGE - PHASE	MOCP	FEEDER CONDUCTOR & GROUND	PIPE	MATERIAL	CONNECTION TYPE	AMPERAGE	POLES	FUSES	NEMA	HEIGHT	REMARKS
A10.30	MULTIP LE FRYER SYSTEM, GAS	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A24.U2	MULTIP LE FRYER SYSTEM, GAS	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A31.00	MARINATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A47.10	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A47.20	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
A47.30	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A49.00	DRUMROLL	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
A54.00	REACH-IN FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	78"	
A854.00	REACH-IN FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
B10.00	CONVECTION OVEN	120/208V-3P	40A	1 SET(4)#8,#10G	3/4"	COPPER	HARDWIRE					22"-47"	
B20.00	COUNTERTOP MIXER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
B60.00	REACH-IN REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	78"	
B65.00	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
C20.00	TOASTER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	42"	
C40.00	PRODUCT HOLDING BIN	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
C41.00	PRODUCT HOLDING BIN	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20	64"	
D20.00	MICROWAVE OVEN	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		6-15	40"-52"	2 POLE, 3 WIRE
D29.00	DIPPER WELL	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
D29.00	HOT WELLS	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		6-15		
D29.10	UTENSIL HOLDER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
D29.80	HOT WELLS	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE						PROVIDE FOR (2) HOT WELLS
D50.00	DISHWASH ER	208V-3P	30A	1 SET(3)#10,#10G	1/2"	COPPER	HARDWIRE					12"	
D50.00	ELECTRIC BOOSTER HEATER	208V-3P	30A	1 SET(3)#10,#10G	1/2"	COPPER	HARDWIRE						
D70.00	HOT WATER DISPENSER	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE					48"	
D81.00	RETHERMALIZER, WATER TANK, ELECTRIC	208V-1P	60A	1 SET(2)#6,#10G	3/4"	COPPER	HARDWIRE					17"	
D90.00	COOK & HOLD OVEN	208V-1P	30A	1 SET(2)#10,#10G	1/2"	COPPER	RECEPTACLE	30A	2		6-30	69"	
D92.00	SIDE HOLDING BINS	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		6-15		INCLUDED IN #H10
D92.00DM	HOT HOLDING CABINET	208V-1P	30A	1 SET(2)#10,#10G	1/2"	COPPER	RECEPTACLE	30A	2		6-30		
D93.10	HOLDING BIN	208V-1P	35A	1 SET(2)#8,#10G	1/2"	COPPER	HARDWIRE						4 WIRE
D94.00DM	HOT HOLDING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
D94.00PC	PROTEIN HOLDING BIN	208V-1P	30A	1 SET(2)#10,#10G	1/2"	COPPER	RECEPTACLE	30A	2		6-30		
D94.10PC	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
E10.00	WALK-IN COOL ER/FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE						SEE SPECS
E71.00	EVEN-THAW REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	84"	
E71.20	THAWING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
F15.10	FAB ELECTRICAL	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE						SEE SPECS
GR10.00	CONTACT GRILL	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
H10.00	FAB ELECTRICAL	120/208V-3P	70A	1 SET(4)#4,#8G	1-1/4"	COPPER	HARDWIRE						LOAD CENTER
H90.00	HOLDING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
J40.00	UNDERCOUNTER REFRIG ERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	12"	
K10.00	ICE MAKER, CUBE-STYLE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	68"	
K30.00	DRINK MACH INE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE					50"	
K11.00	ICE MAKER, CUBE-STYLE	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE					66"	
K30.00	DRINK MACH INE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
K40.00	OIL MANAGEMENT SYSTEM	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
K71.00	TEA BREWER	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		

NOTES:
1
2
3



ISSUE TABLE

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PM: DD M: JTM E: RR P: GR

Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

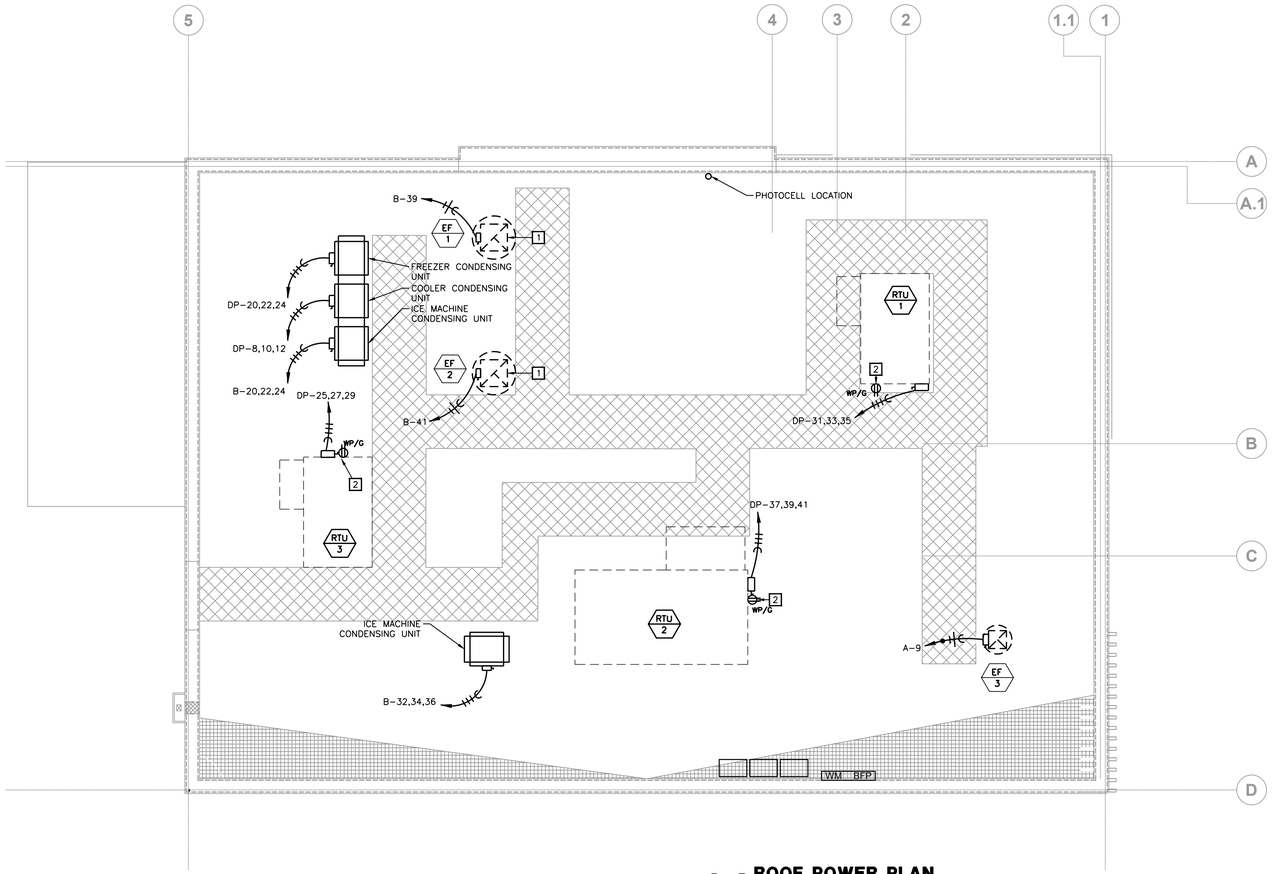
Drawing Title
ELECTRICAL POWER PLAN

Drawn	Checked
RRR	TAP
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	E1.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

ELECTRICAL KEYNOTES

1. PROVIDE CONNECTION TO ASSOCIATED SWITCH ON HOOD. COORDINATE ALL REQUIREMENTS WITH MECHANICAL DRAWINGS AND HOOD WIRING DIAGRAM PRIOR TO ROUGH-IN.
2. UNIT IS PROVIDED WITH UNIT MOUNTED UNIT POWERED CONVENIENCE RECEPTACLE.



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

MISC EQUIPMENT SCHEDULE

CONNECTION DESIGNATION	LOAD DESCRIPTION	VOLTS/PH	LOAD INFORMATION					DISCONNECT INFORMATION							CIRCUIT ID	CONNECTION NOTES	CONNECTION DESIGNATION
			HP	LOAD	FLA	MCA	MOCP	FURN. BY	INSTALLED BY	TYPE	SWITCH RATING	POLE	FUSE OR TRIP RATING	NEMA ENCL TYPE			
RTU-1	ROOFTOP UNIT	208/3	-	11.2 KVA		31	45	ELEC. CNTR.	ELEC. CNTR.	FUSED	60	3	F.P.N.	3R	DP-33		RTU-1
RTU-2	ROOFTOP UNIT	208/3	-	17.3 KVA		50	60	ELEC. CNTR.	ELEC. CNTR.	FUSED	60	3	F.P.N.	3R	DP-39	-	RTU-2
RTU-3	ROOFTOP UNIT	208/3	-	11.2 KVA		31	45	ELEC. CNTR.	ELEC. CNTR.	FUSED	60	3	F.P.N.	3R	DP-27	-	RTU-3
EF-1	EXHUAST FAN	120/1	-	0.5 KVA		4.4	20	EQ. MFGR.	EQ. MFGR.	-	-	1	F.P.N.	-	See Plans	-	EF-1
EF-2	EXHUAST FAN	120/1	-	0.1 KVA		1	20	EQ. MFGR.	EQ. MFGR.	-	-	1	F.P.N.	-	See Plans	-	EF-2
EF-3	EXHUAST FAN	120/1	-	0.1 KVA		1	20	EQ. MFGR.	EQ. MFGR.	-	-	1	F.P.N.	-	See Plans	-	EF-3

NOTES:
1 OVERCURRENT VENDORS/INSTALLERS TO ENSURE FULL COORDINATION. ANY CHANGES REQUIRED SHALL BE MADE PRIOR TO ORDERING MATERIALS AND WILL BE INSTALLED AT THE COST OF THE PERSON AND/OR COMPANY MAKING THE CHANGES.

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Project
POPEYES LOUISIANA KITCHEN 19 72

Store Type
US 2112 PROTOTYPE
2112-21

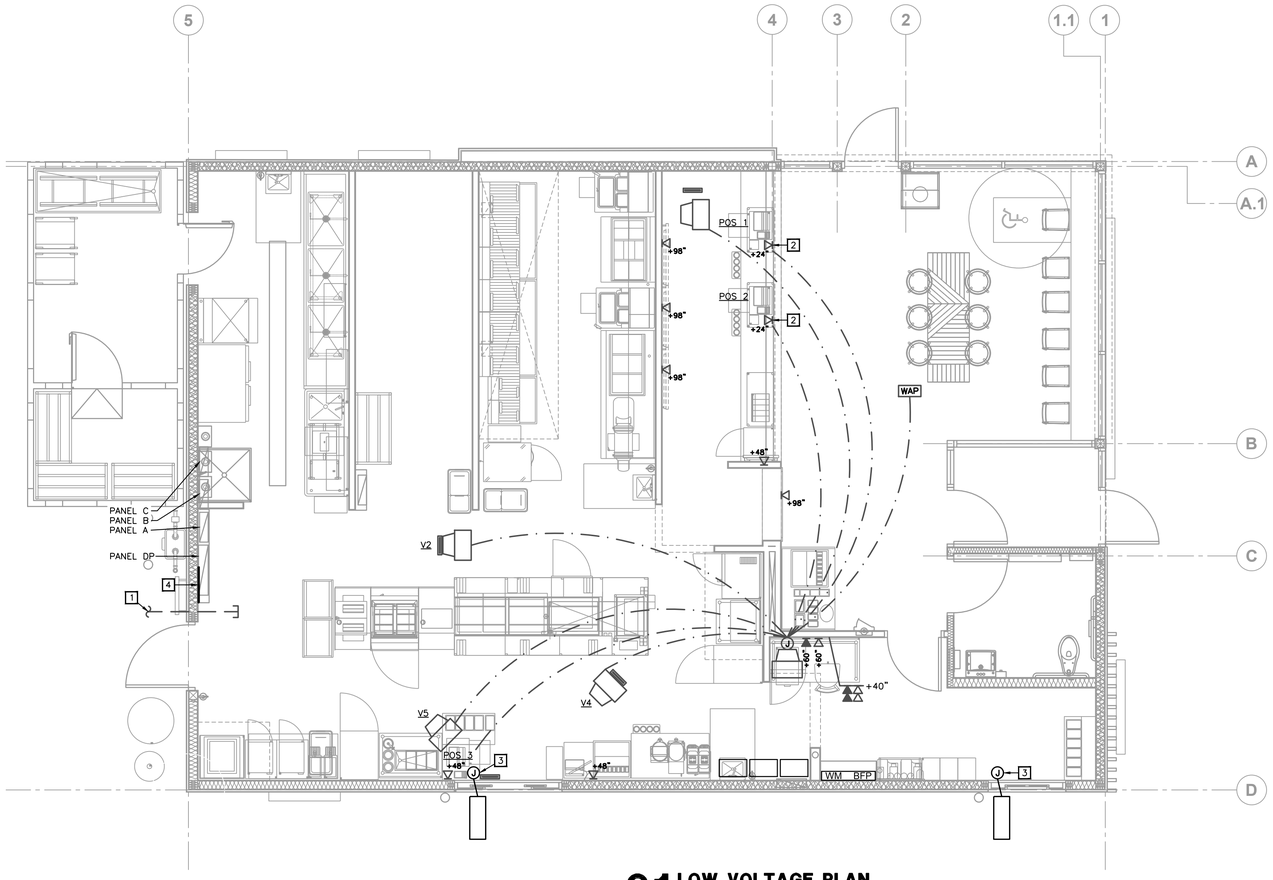
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ELECTRICAL ROOF PLAN

NORTH CAROLINA PROFESSIONAL SEAL 022106 ENGINEER TIMOTHY A. PAYNE
8-11-23

Drawn	Checked
RRR	TAP
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	E1.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



01 LOW VOLTAGE PLAN
1/4"=1'-0"

ELECTRICAL KEYNOTES

1. (2) 2" CONDUITS FROM TELEPHONE BOARD TO A LOCATION COORDINATED WITH LOCAL TELEPHONE COMPANY. OWNER REQUIRED SERVICE CONDUITS SHALL BE SIZED FOR 25 PAIR (MINIMUM). TELEPHONE SERVICE CONDUITS SHALL BE INSTALLED WITH PULL WIRE. CONDUITS RISE FROM U.G. INSIDE EXTERIOR WALL, TURN 90 DEGREES, AND TERMINATE IN BUILDING. SEE ARCHITECTURAL ELEVATIONS.
2. FRONT COUNTER REGISTER DATA OUTLETS MOUNTED ON INSIDE OF MILLWORK. PROVIDE 1" CONDUIT WITH PULL STRING FOR POS DATA BOXES.
3. PROVIDE JUNCTION BOX WITH 1" CONDUIT WITH PULL STRING THROUGH CURB TO 2" BELOW PAVEMENT LINE FOR CAR SENSOR DETECTOR LOOP. COORDINATE WITH CIVIL PLANS AND COORDINATE INSTALLATION IN FIELD WITH SUPPLIER.
4. PROVIDE 3/4" X 18" X 24" W PLYWOOD TELEPHONE BOARD PAINTED WITH 2 COATS OF "LISTED" FIRE RETARDANT LIGHT GRAY COLOR PAINT.

REGISTER CONNECTION NOTES

A. CABLES SHALL BE CAT6.

B. BUMP BARS SHALL BE MOUNTED TO DELIVER SYSTEM AT AREAS MARKED "BB".

C. BUMP BAR CABLES SHALL BE RUN THROUGH DELIVERY SYSTEM FROM MOUNT UP THROUGH WALLS TO ABOVE THE CEILING AND BACK TO THE MANAGER STATION.

D. CRT MONITORS SHALL BE MOUNTED ON CEILING BRACKETS PROVIDED BY REGISTER SYSTEM.

E. WHERE CABLING IS INSTALLED IN WALLS, IT SHALL BE ROUTED IN 1" CONDUIT THROUGH THE WALL TO ABOVE ACCESSIBLE CEILING.

POS LEGEND

- BUMP BAR WIRING
- VIDEO MONITOR AND POS WIRING
- SECURITY WIRING (CAT6)
- BB – BUMP BARS
- V1 = VIDEO 1, V2 = VIDEO 2, V3 = VIDEO 3, V4 = VIDEO 4, V5 = VIDEO 5
- POS – POINT OF SALE TERMINAL
- MONITOR

SYMBOLS LEGEND NOTES:
MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.

POPEYES RADIO SYSTEM
PROVIDED BY OWNER

DESCRIPTION	MAKE	MODEL	QUANTITY
RECESSED SPEAKERS*(DINING)	BOSE	MODEL #16, BLACK	4
RECESSED SPEAKERS*(KITCHEN)	MUZAK	MBS 8-ST3, BLACK	2
OUTDOOR BOX SPEAKERS*	OWI	701	4
AMPLIFIER	PASO	MU 3130 BGM	1
SPEAKER SUPPORT	QUAM	SSB-2	2
SPEAKER BACKCAN	QUAM	ERD-8	2
CABLE, CONNECTORS, HARDWARE AND SHELF	VARIOUS	VARIOUS	1
AREA VOLUME CONTROL	QUAM	QC-10	3
RECEIVER	ECOHO STAR	3000	1
DISH	CH MASTER	1.0 ANTENNA	1

* NUMBER OF SPEAKERS MAY VARY DUE TO DESIGN CONSIDERATIONS
** LABOR INCLUDES INSTALLATION OF 150' OF 12 GAUGE SPEAKER WIRE. SEE THE NATIONAL ACCOUNT VENDOR LIST FOR EQUIPMENT SUPPLIER.

NORTH CAROLINA REGISTERED SEAL 022106 ENGINEER TIMOTHY A. PAYNE
8-11-23

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Project
LOUISIANA KITCHEN 19 72
POPEYES

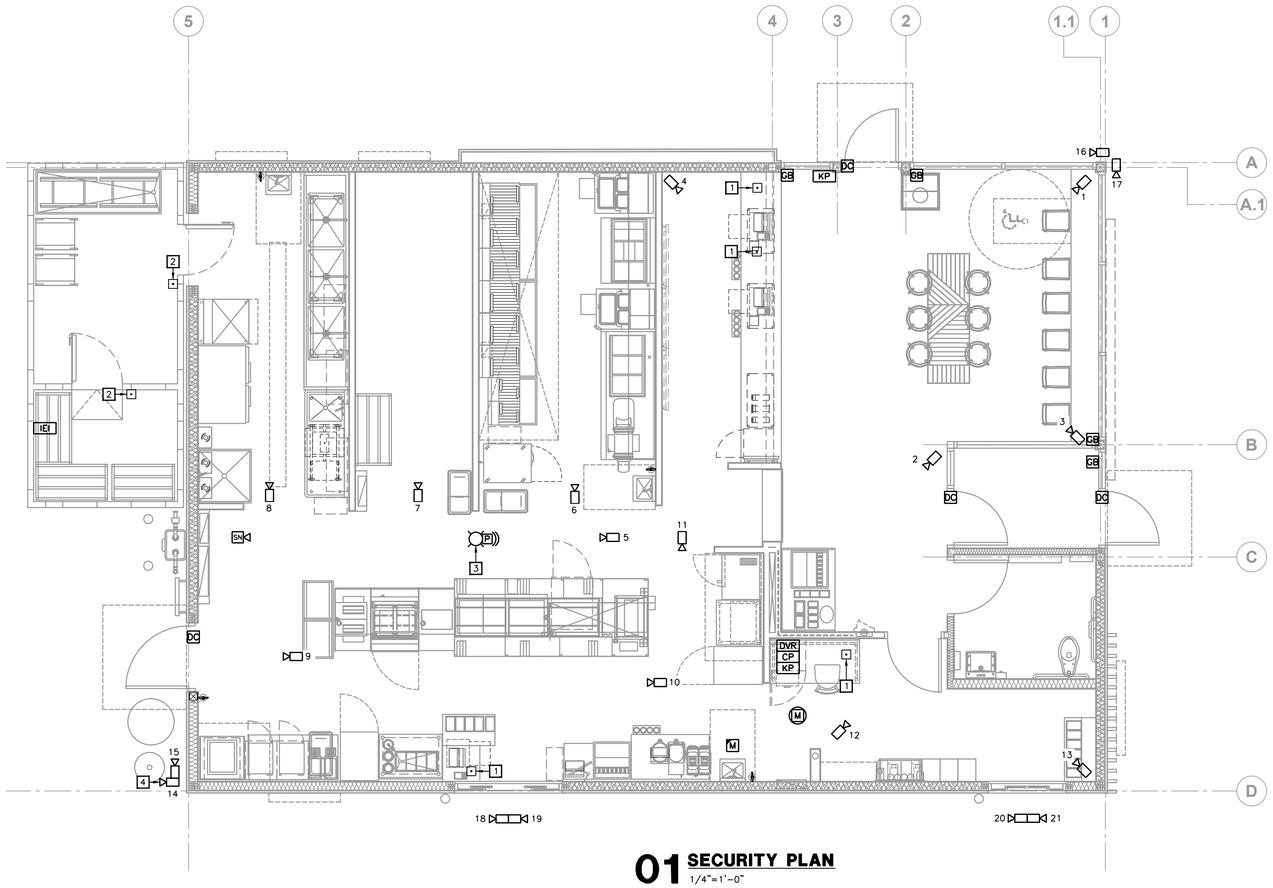
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ELECTRICAL POS PLAN

Drawn	Checked
RRR	TAP
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	E1.4

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



01 SECURITY PLAN

1/4"=1'-0"

ELECTRICAL KEYNOTES

1. PROVIDE PANIC BUTTON INSTALLED ON UNDERSIDE OF COUNTER/ DESK.
2. PROVIDE WEATHERPROOF/ COLD-PROOF HOLD-UP PANIC BUTTON INSIDE WALK-IN COOLER/ FREEZER. COORDINATE EXACT INSTALLATION AND LOCATION WITH POPEYES CONSTRUCTION MANAGER.
3. STROBE LIGHT -AS SL-401B-BLUE STROBE LIGHT MOUNTED IN KITCHEN. LIGHT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN.
4. MOUNT CAMERA ON BUILDING CORNER AND ORIENT TO FACE DRIVE-THRU MENU BOARD.

POPEYES MATERIAL LIST

CAMERAS

A. CAMERA ACCESSORIES AND DETAILS:
- A.A. 6 OR 7 LOCATIONS (LOCATIONS W/OUTDOOR CAMERAS)
- A.B. 2 OR 3 GIT100-GROUND ISOLATION TRANSFORMERS
- A.C. LTC 0430/20-38 SERIES CAMERA W/ 3.5-8MM VARIFOCAL AUTOIRIS LENS
- A.D. TC 9340A SERIES OUTDOOR HOUSING
- A.E. TC9211PM POLE MOUNT ADAPTER
- A.F. NC CONNECTORS FOR PLENUM CABLE
- A.G. LEX CONDUIT FOR OUTDOOR CAMERAS RUN INSIDE POLE FOR CABLING

B. INDOOR CEILING MOUNT IN TINTED DOME:
- B.A. FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY DROPPED OUT OF TILE
- B.B. LTC 0430/20-38 SERIES CAMERA W/ 3.5MM-8MM VARIFOCAL AUTOIRIS LENS
- B.C. TC 9345MT7 INDOOR TINTED DOME
- B.D. BNC CONNECTORS FOR PLENUM CABLE

OFFICE AREA

C. AC-BURGLAR ALARM CONTROL: VISTA 20SEUL
D. VCR LOCK BOX : TC3922 SERIES
E. VCR: LTC 3924 SERIES PLACE ON SECURITY LOCK FOR NO TAMPER
F. MONITOR: LTC 2813/60 SERIES
G. ALTV248: 8 POSITION POWER SUPPLY
H. QUICK REFERENCE SHEETS
I. ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN EMPLOYEE ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE AREA PER CUSTOMER INSTRUCTION
J. VCR INSTRUCTION SHEETS (2) 1-REVIEW & 1-RECORD-TO BE MOUNTED ON WALL CLOSEST TO VCR
K. 2-HUB: HOLD UP BUTTON 441494 SERIES LATCHING HUB

FOR LOCATIONS WITH 6 OR MORE CAMERAS: ADD MULTIPLEXER LTC 2641/60. PLACE ON NO-TAMPER SECURITY LOCK.

FOR LOCATIONS WITH 4 CAMERAS OR LESS: ADD VIDQUAD 4 CHANNEL LTC 2272/60

STOVE/ PREP AREA

L. STROBE LIGHT-AS SL-401B-BLUE STROBE MOUNT BEHIND MENU BOARD.
- L.A. STROBE LIGHT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN

M. SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH STROBE BEHIND MENU BOARD.
- M.A. SOUNDER WILL SOUND WHEN BACK DOOR IS OPENED.
- M.B. MANAGER WILL SILENCE ST SOUNDER AT KEYPAD AFTER 1ST TONE

N. MOTION DETECTOR-AP 669 PIR-360 MOTION MOUNT IN STOVE AREA.
- N.A. MOTION DETECTOR RADIUS TO INCLUDE DRIVE-UP WINDOW AREA AND GENERAL REAR AREA.

LOBBY/ PERIMETER AREA/ BACK OF HOUSE

O. KEYPAD
- O.A. MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM LOBBY

P. FG 1025 GLASS BREAK
- P.A. GLASS BREAK FOR LOBBY GLAZING. PROVIDE ONE ON EACH SIDE OF BUILDING. COORDINATE EXACT DEVICE LOCATION AND INSTALLATION.

Q. B4039 DOOR CONTACT
- Q.A. PROVIDE FOR ALL EXTERIOR DOORS. BACK DOOR CONTACT TO ACT AS ALARM POINT FOR REAR "OPEN DOOR" ALARM. SOUNDER AND BLUE STROBE TO ACTIVATE WHEN BACK DOOR IS OPEN.

R. 3050CT SERIES HOLD-UP PANIC BUTTON
- R.A. LATCHING HUB IN COOLER/FREEZER. MOUNT 18" AFF ON HINGE SIDE OF DOOR SUB UP IN CONDUIT

S. POINT OF CONNECTION TO NKL SAFE
- S.A. PIGTAIL PROVIDED BY NKL SAFE

T. RELAYS FOR BACK DOOR/POC/ZONE EXPANSION
U. TELCO JACK
V. WATTS LINE

REFERENCE ONLY

SECURITY SYMBOL LEGEND

DEVICE	SYMBOL	QTY.	DEVICE	SYMBOL	QTY.
DOOR CONTACT	DC	4	DOME CAMERA (PROVIDE EXTERIOR RATINGS WHERE REQUIRED)	▷□	21
HORN/ SOUNDER	SN◁	1	14 INCH MONITOR	M	1
CONTROL PANEL	CP	1	DIGITAL VIDEO RECORDER	DVR	1
SECURITY KEYPAD	KP	2	IEI KEYPAD	IEI	1
MOTION DETECTOR (CEILING MOUNT)	Ⓜ	1	STROBE LIGHT	⨀	1
GLASS BREAK	GB	4	PIEZO	P)))	1
HOLD-UP PANIC BUTTON	⊡	6			

SECURITY ACCEPTANCE FORM NOTE

CONTRACTOR TO FILL OUT "SECURITY INSTALLATION ACCEPTANCE FORM/CHECKLIST" ON SHEET E1.0 TO FINALIZE INSTALLATION OF SECURITY SYSTEM.

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LOUISIANA KITCHEN 19 72

POPEYES

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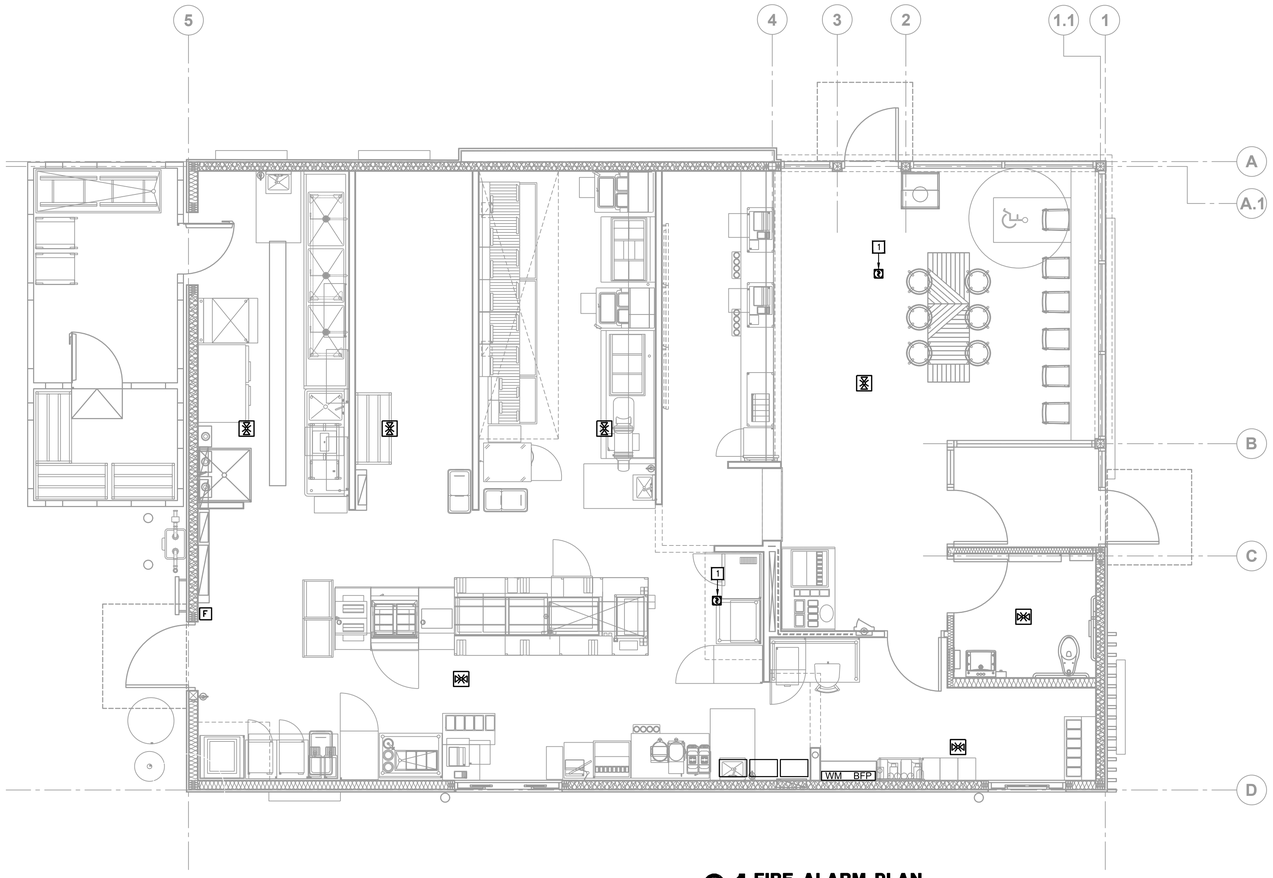
Project No.	Drawing No.
G23-29	E1.5

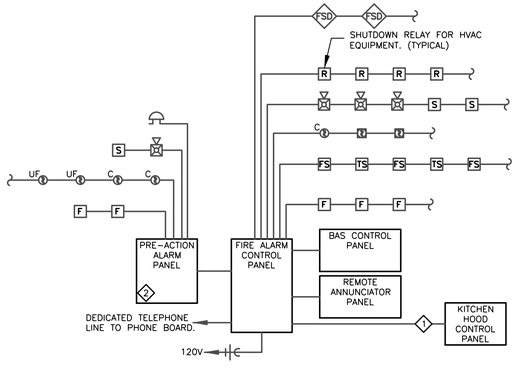
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC; 2124 PROTOTYPE DOCUMENTS. STORE NO. 14185

ELECTRICAL KEYNOTES

1 PROVIDE 120V WIRING TO DUCT MOUNTED SMOKE DETECTORS AND REMOTE TEST INDICATORS.



01 FIRE ALARM PLAN
1/4"=1'-0"



FIRE ALARM CONTRACTOR SHALL VERIFY EXACT NUMBER OF CIRCUITS REQUIRED FOR ALL DEVICES, INCLUDING VOLTAGE DROPS AND BATTERY CALCULATIONS.

1. ELECTRICAL CONTRACTOR SHALL PROVIDE RELAY CONNECTION BETWEEN KITCHEN EXHAUST HOODS AND FIRE ALARM SYSTEM.
2. DATA ROOM SHALL BE MONITORED AND SIGNALED INDEPENDENTLY.

02 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

NORTH CAROLINA PROFESSIONAL SEAL 022106 ENGINEER TIMOTHY A. PAYNE
8-11-23

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED BY POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".

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PM: DD M: JTM E: RR P: GR

Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
FIRE ALARM PLAN

Drawn	Checked
RRR	TAP
Scale	**Date**
	8/11/23
Project No.	**Drawing No.**
G23-29	E1.

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

PANEL DP

MAIN TYPE: **MAIN BREAKER** | VOLTAGE (L-L): **208** | PHASE: **3**
AMPERE RATING: **600** | VOLTAGE (L-N): **120** | WIRE: **4**
LUG OPTIONS: | BUS RTG (AMPS): **600** | MIN. KAIC: **35**
REMARKS: | MOUNTING: **FLUSH**

CCT BRKR NO.	AMPS	P	LOAD DESCRIPTION	NOTE	WIRE SIZE	LOAD KVA	PHASE A	PHASE B	PHASE C	LOAD KVA	WIRE SIZE	NOTE	LOAD DESCRIPTION	CCT BRKR P	CCT BRKR AMPS	CCT BRKR NO
						2.0	2.6			0.6						
3	40	3	B10.00 - CONVECTION OVEN		8	2.0		2.6		0.6	12		WALK-IN COOLER	3	20	4
						2.0			2.6	0.6						
						2.0	2.2			0.2						
9	40	3	B10.00 - CONVECTION OVEN		8	2.0		2.2		0.2	12		COOLER CONDENSER	3	20	10
						2.0			2.2	0.2						
13	60	2	D81.00 - RETHERMALIZER		4	4.8	5.5			0.7						
						4.8		5.5		0.7	12		WALK-IN FREEZER	3	20	16
17	20	2	SPARE						0.7	0.7						
							0.5			0.5						
21	20	2	SPARE					0.5		0.5	12		FREEZER CONDENSER	3	20	22
									0.5	0.5						
						3.7	10.0			6.3						
27	45	3	(RTU-3) ROOFTOP UNIT		6	3.7		9.9		6.2	RISER		PANEL 'A'	3	225	28
						3.7			9.8	6.1						
						3.7	13.3			9.6						
33	45	3	(RTU-1) ROOFTOP UNIT		6	3.7		13.1		9.4	RISER		PANEL 'B'	3	225	34
						3.7			11.6	7.9						
						5.8	22.2			16.4						
39	60	3	(RTU-2) ROOFTOP UNIT		4	5.8		19.4		13.6	RISER		PANEL 'C'	3	225	40
						5.8			20.0	14.2						
						56.3	53.2	47.4								

NEC ARTICLE 220 LOAD CATEGORY:		CONN KVA	DEMD FACT	DEMD KVA
TOTAL INTERIOR LIGHTS		2.0	1.25	2.5
I	ENERGY CODE REQ'D.	1.9		
N	NON-ENER. CODE REQ'D.	0.1		
E	EXTERIOR LIGHTS	2.1	1.25	2.6
R	RECEPTACLES (FIRST 10)	8.6	1.00	8.6
	(REMAINDER)	0.0	0.50	0.0
P	HVAC PACKAGED UNITS	39.6	1.00	39.6
H	HEAT PUMPS / COND. UNITS	0.0	1.00	0.0
A	AIR HANDLING UNITS	0.0	1.00	0.0
D	CHILLER / COOLING TOWER	0.0	1.00	0.0
T	ELECTRIC HEAT	0.0	1.00	0.0
V	VAV BOXES / FAN BOXES	0.0	1.00	0.0

DEMD KVA	DEMD FACT	CONN KVA	NEC ARTICLE 220 LOAD CATEGORY:	
5.9	1.00	5.9	MISC. HVAC	S
0.0	1.00	0.0	MOTORS	M
0.0	0.25	0.0	LARGEST MOTOR	LM
8.8	1.00	8.8	WATER HEATERS	W
0.0	1.00	0.0	ELEVATORS	L
53.5	0.65	82.3	KITCHEN EQUIPMENT	K
		5	NO. OF UNITS OF EQUIP.	
0.0	1.25	0.0	COMPUTER LOADS	O
0.0	1.00	0.0	SHOP EQUIPMENT	Q
7.6	1.00	7.6	MISC. LOADS	C
0.0	1.00	0.0	SYSTEM FURNITURE	Z

NOTE:

CONNECTED KVA: 156.9
CONNECTED AMPS: 436
DEMAND AMPS: 359

PANEL A

MAIN TYPE: **MAIN LUG ONLY** | VOLTAGE (L-L): **208** | PHASE: **3**
AMPERE RATING: | VOLTAGE (L-N): **120** | WIRE: **4**
LUG OPTIONS: | BUS RTG (AMPS): **225** | MIN. KAIC: **35**
REMARKS: | MOUNTING: **FLUSH**

CCT BRKR NO.	AMPS	P	LOAD DESCRIPTION	NOTE	WIRE SIZE	LOAD KVA	PHASE A	PHASE B	PHASE C	LOAD KVA	WIRE SIZE	NOTE	LOAD DESCRIPTION	CCT BRKR P	CCT BRKR AMPS	CCT BRKR NO
1	20	1	KITCHEN LTG / REC/RC PUMP		12	1.2	2.1			0.9	12		SITE LIGHTING	1	20	2
3	20	1	SERVING AREA LIGHTING		12	0.1		0.8		0.7	12		SITE LIGHTING	1	20	4
5	20	1	DINING LIGHTING		12	0.6			1.1	0.5	12		MONUMENT SIGN	1	20	6
7	20	1	DINING ACCENT LIGHTING		12	0.1	0.6			0.5	12		MONUMENT SIGN	1	20	8
9	20	1	RESTROOM LIGHTING & EF-3		12	0.2		0.4		0.2	12		DT ORDER PEDESTAL	1	20	10
11	20	1	EXTERIOR BUILDING LIGHTING		12	0.5			1.0	0.5	12		DT PRE-ORDER MENUBOARD	1	20	12
13	20	1	BUILDING SIGNANGE		12	0.5	0.7			0.2	12		DT UG DETECTOR	1	20	14
15	20	1	BUILDING SIGNANGE		12	0.5		0.7		0.2	12		DT LIGHTING	1	20	16
17	20	1	BUILDING SIGNANGE		12	0.5			0.7	0.2	12		DT ORDER PEDESTAL	1	20	18
19	20	1	BUILDING SIGNANGE		12	0.5	1.0			0.5	12		DT PRE-ORDER MENUBOARD	1	20	20
21	20	1	WH-1,2,3	A	12	1.4			1.6	0.2	12		DT UG DETECTOR	1	20	22
23	20	1	EXTERIOR RECEPTACLES		12	0.7			0.9	0.2	12		DT LIGHTING	1	20	24
25	20	1	RESTROOM RECEPTACLES		12	0.5	0.7			0.2	12		VERTICAL DT SIGN	1	20	26
27	20	1	SHOW WINDOW RECEPTACLES		12	0.5		1.0		0.5	12		DIRECTIONAL SIGNS	1	20	28
29	20	1	MENUBOARDS	A	12	0.5			0.5				SPARE	1	20	30
31	20	1	KITCHEN CONV. RECEPTACLES	A	12	0.7	0.7						SPARE	1	20	32
33	20	1	KITCHEN CONV. RECEPTACLES	A	12	0.7		0.7					SPARE	1	20	34
35	20	1	POS SYSTEM	A	12	0.7			0.7				SPARE	2	20	36
37	20	1	DT WINDOW	A	12	0.5	0.5									
39	15	1	DT WINDOW	A	12	0.5		1.0		0.5	12		HAND DRYER	2	20	40
41	15	1	POS SYSTEM	A	12	0.7			1.2	0.5						
							6.3	6.2	6.1							

NEC ARTICLE 220 LOAD CATEGORY:		CONN KVA	DEMD FACT	DEMD KVA
TOTAL INTERIOR LIGHTS		2.0	1.25	2.5
I	ENERGY CODE REQ'D.	1.9		
N	NON-ENER. CODE REQ'D.	0.1		
E	EXTERIOR LIGHTS	2.1	1.25	2.6
R	RECEPTACLES (FIRST 10)	6.0	1.00	6.0
	(REMAINDER)	0.0	0.50	0.0
P	HVAC PACKAGED UNITS	0.0	1.00	0.0
H	HEAT PUMPS / COND. UNITS	0.0	1.00	0.0
A	AIR HANDLING UNITS	0.0	1.00	0.0
D	CHILLER / COOLING TOWER	0.0	1.00	0.0
T	ELECTRIC HEAT	0.0	1.00	0.0
V	VAV BOXES / FAN BOXES	0.0	1.00	0.0

DEMD KVA	DEMD FACT	CONN KVA	NEC ARTICLE 220 LOAD CATEGORY:	
0.2	1.00	0.2	MISC. HVAC	S
0.0	1.00	0.0	MOTORS	M
0.0	0.25	0.0	LARGEST MOTOR	LM
1.4	1.00	1.4	WATER HEATERS	W
0.0	1.00	0.0	ELEVATORS	L
0.0	1.00	0.0	KITCHEN EQUIPMENT	K
		0	NO. OF UNITS OF EQUIP.	
0.0	1.25	0.0	COMPUTER LOADS	O
0.0	1.00	0.0	SHOP EQUIPMENT	Q
6.9	1.00	6.9	MISC. LOADS	C
0.0	1.00	0.0	SYSTEM FURNITURE	Z

NOTE: **A** PROVIDE GFI BREAKER

CONNECTED KVA: 18.6
CONNECTED AMPS: 52
DEMAND AMPS: 55

PANEL B

MAIN TYPE: **MAIN LUG ONLY** | VOLTAGE (L-L): **208** | PHASE: **3**
AMPERE RATING: | VOLTAGE (L-N): **120** | WIRE: **4**
LUG OPTIONS: | BUS RTG (AMPS): **225** | MIN. KAIC: **35**
REMARKS: | MOUNTING: **FLUSH**

CCT BRKR NO.	AMPS	P	LOAD DESCRIPTION	NOTE	WIRE SIZE	LOAD KVA	PHASE A	PHASE B	PHASE C	LOAD KVA	WIRE SIZE	NOTE	LOAD DESCRIPTION	CCT BRKR P	CCT BRKR AMPS	CCT BRKR NO
1	20	1	E71.00-THAWING FRDGE		12	1.4	2.1			0.7	12		A54.00-REACH-IN FREEZER	1	20	2
3	20	1	A31.00-MARINATOR		12	1.1		2.1		1.0	12		A10.30-FRYER (GAS)	1	20	4
						1.7			2.7	1.0	12		A10.30-FRYER (GAS)	1	20	6
7	30	3	D50.00 - DISHWASHER		10	1.7	2.7			1.0	12		A10.30-FRYER (GAS)	1	20	8
						1.7		1.9		0.2	12		A47.20-BATTER CART	1	20	10
						1.4			1.6	0.2	12		A47.20-BATTER CART	1	20	12
13	30	3	D50.00-BOOSTER HEATER		10	1.4	2.8			1.4	12		K30.00-DRINK MACHINE	1	20	14
						1.4		3.1		1.7	12		K71.00-TEA BREWER	1	20	16
17	20	1	ANSUL SYSTEMS		12	0.5			0.7	0.2	12		K72.00	1	20	18
19	20	1	SPARE					0.5		0.5						
21	20	1	SPARE						0.5	0.5	12		K10.00-CONDENSING UNIT	3	15	22
23	20	1	SPARE					0.5		0.5						
25	20	1	SPARE				0.2			0.2	12		K10-00-ICE MAKER	1	20	26
27	20	1	SPARE					0.4		0.4	12		BAG'N BOX RECEPTACLE	1	20	28
29	20	1	MANAGERS DESK POWER		12	0.7			1.1	0.4	12		K10.00-ICE/BEVERAGE MACHINE	1	20	30
31	20	1	MANAGERS DESK POWER		12	0.4	0.9			0.5						
33	20	1	MANAGERS DESK POWER		12	0.4		0.9		0.5	12		K10.00-CONDENSING UNIT	3	15	34
35	20	1	MANAGERS DESK POWER		12	0.7			1.2	0.5						
37	20	1	MANAGERS DESK POWER		12	0.4	0.4						SPARE	1	20	38
39	20	1	EF-1		12	0.5		0.5					SPARE	1	20	40
41	20	1	EF-2		12	0.1			0.1				SPARE	1	20	42
							9.6	9.4	7.9							

NEC ARTICLE 220 LOAD CATEGORY:		CONN KVA	DEMD FACT	DEMD KVA
TOTAL INTERIOR LIGHTS		0.0	1.25	0.0
I	ENERGY CODE REQ'D.	0.0		
N	NON-ENER. CODE REQ'D.	0.0		
E	EXTERIOR LIGHTS	0.0	1.25	0.0
R	RECEPTACLES (FIRST 10)	2.6	1.00	2.6
	(REMAINDER)	0.0	0.50	0.0
P	HVAC PACKAGED UNITS	0.0	1.00	0.0
H	HEAT PUMPS / COND. UNITS	0.0	1.00	0.0
A	AIR HANDLING UNITS	0.0	1.00	0.0
D	CHILLER / COOLING TOWER	0.0	1.00	0.0
T	ELECTRIC HEAT	0.0	1.00	0.0
V	VAV BOXES / FAN BOXES	0.0	1.00	0.0

DEMD KVA	DEMD FACT	CONN KVA	NEC ARTICLE 220 LOAD CATEGORY:	
3.6	1.00	3.6	MISC. HVAC	S
0.0	1.00	0.0	MOTORS	M
0.0	0.25	0.0	LARGEST MOTOR	LM
0.0	1.00	0.0	WATER HEATERS	W
0.0	1.00	0.0	ELEVATORS	L
13.1	0.65	20.2	KITCHEN EQUIPMENT	K
		16	NO. OF UNITS OF EQUIP.	
0.0	1.25	0.0	COMPUTER LOADS	O
0.0	1.00	0.0	SHOP EQUIPMENT	Q
0.5	1.00	0.5	MISC. LOADS	C
0.0	1.00	0.0	SYSTEM FURNITURE	Z

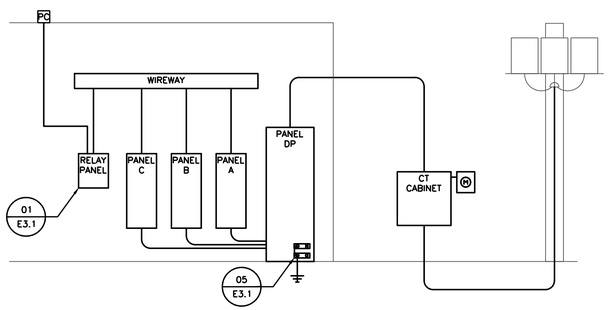
NOTE:

CONNECTED KVA: 26.9
CONNECTED AMPS: 75
DEMAND AMPS: 55

FEEDER SCHEDULE

EQUIPMENT MARK	VOLTAGE - PHASE	MOCP	FEEDER CONDUCTOR & GROUND	FEEDER PIPE	FEEDER MATERIAL	REMARKS	FAULT CURRENT	VOLTAGE DROP
UTILITY	225kVA 120/208V-3P INFINITE						55762	
DP	120/208V-3P	600A	2 SETS(4)#350	4"	COPPER		27589	
A	120/208V-3P	225A	1 SET(4)#4/0,#4G	2-1/2"	COPPER		23942	0.1%
B	120/208V-3P	225A	1 SET(4)#4/0,#4G	2-1/2"	COPPER		23942	0.1%
C	120/208V-3P	225A	1 SET(4)#4/0,#4G	2-1/2"	COPPER		23942	0.1%

NOTES:
1
2
3



01 ELECTRICAL RISER DIAGRAM
ENTER SCALE

PANEL C

MAIN TYPE: **MAIN LUG ONLY** | VOLTAGE (L-L): **208** | PHASE: **3**
AMPERE RATING: | VOLTAGE (L-N): **120** | WIRE: **4**
LUG OPTIONS: | BUS RTG (AMPS): **225** | MIN. KAIC: **35**
REMARKS: | MOUNTING: **FLUSH**

CCT BRKR NO.	AMPS	P	LOAD DESCRIPTION	NOTE	WIRE SIZE	LOAD KVA	PHASE A	PHASE B	PHASE C	LOAD KVA	WIRE SIZE	NOTE	LOAD DESCRIPTION	CCT BRKR P	CCT BRKR AMPS	CCT BRKR NO
1	20	2	SPARE				1.0			1.0	12	A	K11-ICE MAKER	2	20	2
								1.0		1.0						
5	20	1	D29.00-UTENSIL HOLDER	A	12	0.4			2.9	2.5	10	A	D90.00-COOK & HOLD OVEN	2	30	6
7	20	1	C20.00-TOASTER	A	12	1.8	4.3			2.5						
9	20	1	C20.00-TOASTER	A	12	1.8		3.3		1.5	12	A	D70.00-HOT WATER DISPENSER	2	20	10
11	20	1	SPARE						1.5	1.5						
13	20	1	C40.00-HOLDING BIN	A	12	1.4	2.9			1.5	12	A	D70.00-HOT WATER DISPENSER	2	20	14
15	20	1	C41.00-HOLDING BIN	A	12	1.4		2.9		1.5						
17	40	2	D93.10-HOLDING BIN	A	8	3.1			4.5	1.4	12	A	D20.00-MICROWAVE	2	20	18
						3.1	4.5			1.4						
21	20	2	D92.00-SIDE HOLDING BINS	A	12	1.5		2.9		1.4	12	A	D20.00-MICROWAVE	2	20	22
						1.5			2.9	1.4						
25	20	1	J40.00-U/C FRIDGE	A	12	0.7	2.1			1.4	12	A	D20.00-MICROWAVE	2	20	26
27	20	1	D94.10-BISCUIT HOLDING UNIT	A	12	1.4		2.8		1.4						
29	20	1	SPARE						1.4	1.4	12	A	D20.00-MICROWAVE	2	20	30
31	20	1	SPARE				1.4			1.4						
33	20	1	SPARE					0.7		0.7	12	A	B60.00-REACH-IN FRIDGE	1	20	34
35	20	1	SPARE						1.0	1.0	12	A	B65.00-BISCUIT HOLDING UNIT	1	20	36
37	20	1	SPARE				0.2			0.2	12	A	K40.00-OIL MGMT SYSTEM	1	20	38
39	20	1	SPARE					0.0					SPARE	1	20	40
41	20	1	SPARE						0.0				SPARE	1	20	42
							16.4	13.6	14.2							

NEC ARTICLE 220 LOAD CATEGORY:		CONN KVA	DEMD FACT	DEMD KVA
TOTAL INTERIOR LIGHTS		0.0	1.25	0.0
I	ENERGY CODE REQ'D.	0.0		
N	NON-ENER. CODE REQ'D.	0.0		
E	EXTERIOR LIGHTS	0.0	1.25	0.0
R	RECEPTACLES (FIRST 10)	0.0	1.00	0.0
	(REMAINDER)	0.0	0.50	0.0
P	HVAC PACKAGED UNITS	0.0	1.00	0.0
H	HEAT PUMPS / COND. UNITS	0.0	1.00	0.0
A	AIR HANDLING UNITS	0.0	1.00	0.0
D	CHILLER / COOLING TOWER	0.0	1.00	0.0
T	ELECTRIC HEAT	0.0	1.00	0.0
V	VAV BOXES / FAN BOXES	0.0	1.00	0.0

DEMD KVA	DEMD FACT	CONN KVA	NEC ARTICLE 220 LOAD CATEGORY:	
0.0	1.00	0.0	MISC. HVAC	S
0.0	1.00	0.0	MOTORS	M
0.0	0.25	0.0	LARGEST MOTOR	LM
7.4	1.00	7.4	WATER HEATERS	W
0.0	1.00	0.0	ELEVATORS	L
23.8	0.65	36.6	KITCHEN EQUIPMENT	K
		17	NO. OF UNITS OF EQUIP.	
0.0	1.25	0.0	COMPUTER LOADS	O
0.0	1.00	0.0	SHOP EQUIPMENT	Q
0.2	1.00	0.2	MISC. LOADS	C
0.0	1.00	0.0	SYSTEM FURNITURE	Z

NOTE: **A** PROVIDE GFI BREAKER

CONNECTED KVA: 44.2
CONNECTED AMPS: 123
DEMAND AMPS: 87

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project
LOUISIANA KITCHEN 19 72
POPEYES

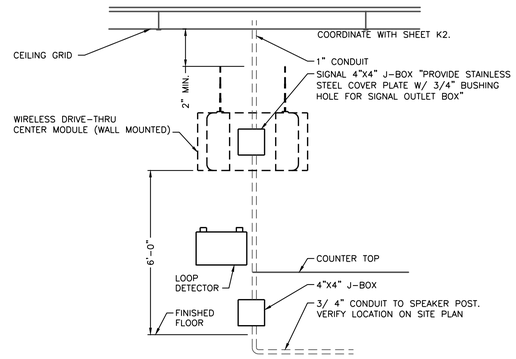
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
ELECTRICAL SCHEDULES

Drawn	Checked
RRR	TAP
Scale	**Date**
	8/11/23
Project No.	**Drawing No.**
G23-29	E2.1

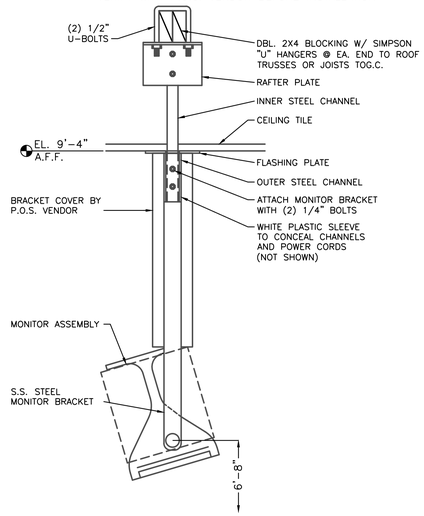
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



07 DRIVE-THRU AUDIO/TIMERS

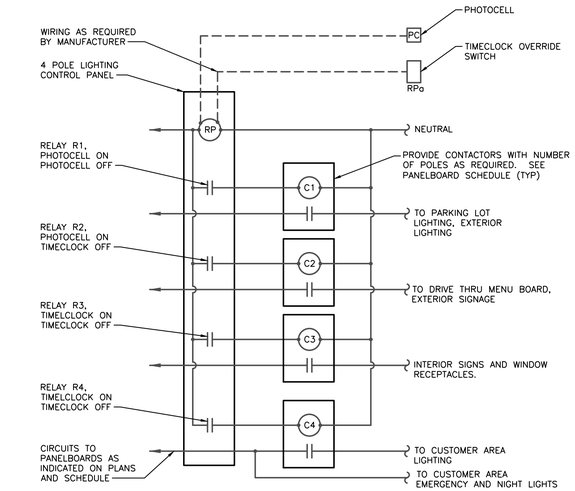
NOT TO SCALE

NOTES:
1. MONITOR BRACKETS TO BE SUPPLIED AND INSTALLED BY P.O.S. VENDOR.
2. G.C. TO SUPPLY 2X4 BLOCKING AND TO SECURE BLOCKING AT LOCATION PER P.O.S. VENDOR DIRECTION. VERIFY WITH P.O.S. VENDOR BEFORE INSTALLATION



04 MONITOR BRACKET DETAIL

NOT TO SCALE

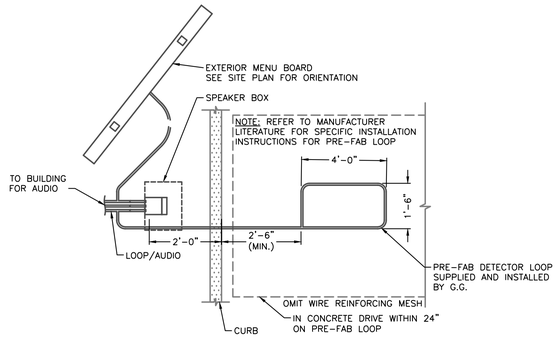


NOTES

1. NOT ALL LOADS AND CONTROLS ARE SHOWN. THIS DIAGRAM IS INTENDED TO PROVIDE GENERAL WIRING AND CONTROL INTENT ONLY.
2. PROGRAM LIGHTING CONTROL PANEL AS DIRECTED BY OWNER.
3. MINIMUM INTERRUPTING RATING FOR ALL RELAYS AND CONTACTORS SHALL BE 10,000 A.I.C.

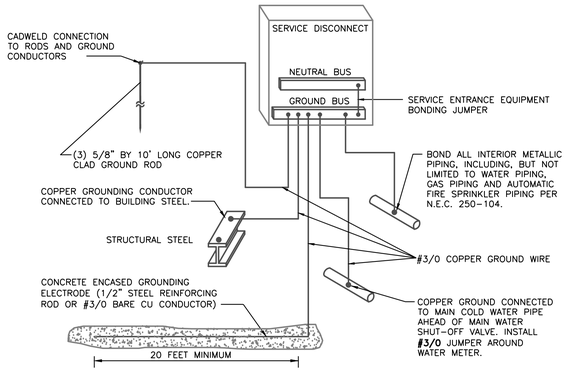
01 LIGHTING CONTROL DIAGRAM

NOT TO SCALE



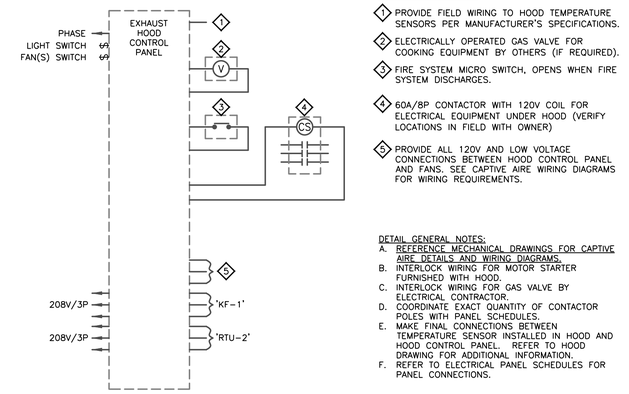
08 DRIVE-THRU LOOP DETECTOR

NOT TO SCALE



05 SERVICE ENTRANCE GROUNDING

NOT TO SCALE



DETAIL CODED NOTES:

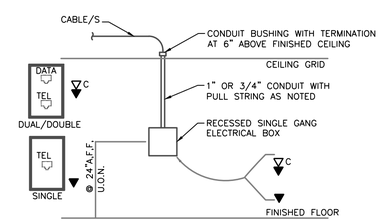
1. PROVIDE FIELD WIRING TO HOOD TEMPERATURE SENSORS PER MANUFACTURER'S SPECIFICATIONS.
2. ELECTRICALLY OPERATED GAS VALVE FOR COOKING EQUIPMENT BY OTHERS (IF REQUIRED).
3. FIRE SYSTEM MICRO SWITCH, OPENS WHEN FIRE SYSTEM DISCHARGES.
4. 60A/8P CONTACTOR WITH 120V COIL FOR ELECTRICAL EQUIPMENT UNDER HOOD (VERIFY LOCATIONS IN FIELD WITH OWNER)
5. PROVIDE ALL 120V AND LOW VOLTAGE CONNECTIONS BETWEEN HOOD CONTROL PANEL AND FANS. SEE CAPTIVE AIRE WIRING DIAGRAMS FOR WIRING REQUIREMENTS.

DETAIL GENERAL NOTES:

A. REFERENCE MECHANICAL DRAWINGS FOR CAPTIVE AIRE DETAILS AND WIRING DIAGRAMS.
B. INTERLOCK WIRING FOR MOTOR STARTER FURNISHED WITH HOOD.
C. INTERLOCK WIRING FOR GAS VALVE BY ELECTRICAL CONTRACTOR.
D. COORDINATE EXACT QUANTITY OF CONTACTOR POLES WITH PANEL SCHEDULES.
E. MAKE FINAL CONNECTIONS BETWEEN TEMPERATURE SENSOR INSTALLED IN HOOD AND HOOD CONTROL PANEL. REFER TO HOOD DRAWING FOR ADDITIONAL INFORMATION.
F. REFER TO ELECTRICAL PANEL SCHEDULES FOR PANEL CONNECTIONS.

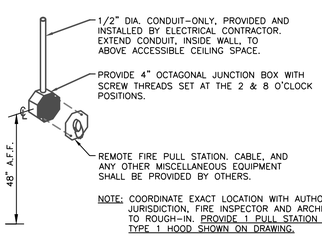
02 EXHAUST HOOD SHUT-DOWN WIRING DIAGRAM (HCP)

NOT TO SCALE



09 TYP COMM. STUB UP

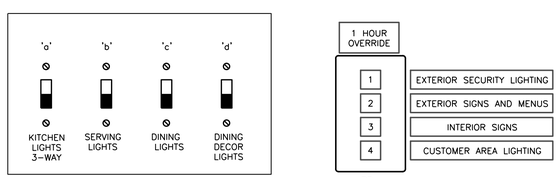
NOT TO SCALE



NOTE: COORDINATE EXACT LOCATION WITH AUTHORITY HAVING JURISDICTION, FIRE INSPECTOR AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 1 PULL STATION FOR EVERY TYPE 1 HOOD SHOWN ON DRAWING.

06 REMOTE HOOD FIRE PULL STATION

NOT TO SCALE



NOTES

1. PROGRAM SWITCH TO OVERRIDE ASSOCIATED RELAY ON FOR 1 HOUR.
2. SWITCHES SHALL BE PILOT LIT PER CODE.
3. PROVIDE MACHINE MADE LABELS AS SHOWN.

03 SWITCH BANK DETAIL

NOT TO SCALE

NORTH CAROLINA PROFESSIONAL SEAL 022106 ENGINEER TIMOTHY A. PAYNE
8-11-23

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

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Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type	
US 2112 PROTOTYPE 2112-21	

Location

PROTOTYPE 2112 (U.S.)
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ELECTRICAL DETAILS

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POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

"MORNING ARRIVAL"

STEP 1

TURN THE KITCHEN UNOCCUPIED-OCCUPIED SWITCH TO THE THE OCCUPIED POSITION. THE KITCHENS AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTAT SET POINT.

NOTE: THE AIR CONDITIONING FAN WILL START AND RUN CONTINUOUSLY. EXHAUST FAN WILL NOT RUN UNTIL THIS SWITCH IS IN THE OCCUPIED POSITION.

STEP 2

TURN ON THE EXHAUST FAN SWITCH TO THE ON POSITION THIS WILL ALLOW YOU TO TURN ON THE FRYERS.

"RESTAURANT OPEN FOR BUSINESS"

STEP 1

TURN THE DINING UNOCCUPIED-OCCUPIED SWITCH TO THE THE OCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTAT SET POINT.

STEP 2

TURN THE SIGN AND PARKING LOT LIGHTING SWITCHES TO THE AUTO POSITION, THIS WILL ENGAGE THE LIGHTING PHOTOCELLS SO THAT THE LIGHTS WILL AUTOMATICALLY COME ON AFTER DARK. TURN THE SWITCH TO THE ON POSITION TO OVER RIDE THE PHOTOCELLS AT ANY TIME THE LIGHTING MUST REMAIN ON.

"RESTAURANT CLOSE FOR BUSINESS"

STEP 1

TURN THE DINING UNOCCUPIED-OCCUPIED SWITCH TO THE UNOCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM THE THERMOSTAT SET POINT TO THE NIGHT SET BACK MODE.

STEP 2

TURN THE SIGN AND PARKING LOT LIGHTING SWITCHES TO THE OFF POSITION, THIS WILL DISENGAGE THE LIGHTING PHOTOCELLS.

STEP 3

TURN THE EXHAUST FAN SWITCH TO THE OFF POSITION. THE UNDER HOOD COOKING EQUIPMENT WILL TURN OFF AND THE EXHAUST FAN WILL CONTINUE TO RUN FOR 15 MINUTES FOR A COOL DOWN CYCLE, AND THEN SHUT OFF AUTOMATICALLY.

NOTE: TO PREVENT ACCIDENTAL ANSUL DISCHARGE, ONE OF THE HOODS EXHAUST FANS WILL RUN 15 MINUTES AFTER THE EXHAUST FAN SWITCH IS TURNED TO THE OFF POSITION.

"EMPLOYEES LEAVING THE BUILDING"

STEP 1

WHEN READY TO EXIT THE BUILDING PUSH THE SECURITY DEPARTURES SWITCH. THE PARKING LOT LIGHTS WILL COME BACK ON FOR 15 MINUTES THEN SHUT OFF AUTOMATICALLY.

"MANAGER/LAST PERSON LEAVING THE BUILDING"

STEP 1

TURN THE KITCHEN UNOCCUPIED-OCCUPIED SWITCH TO THE UNOCCUPIED POSITION. THE KITCHENS AIR CONDITIONING SYSTEM WILL GO FROM THE THERMOSTAT SET POINT TO THE NIGHT SET BACK MODE.

STEP 2

WHEN READY TO EXIT THE BUILDING PUSH THE SECURITY DEPARTURE SWITCH. THE PARKING LOT LIGHTS WILL COME BACK ON FOR 15 MINUTES THEN SHUT OFF AUTOMATICALLY.

"HOOD VENTILATION SYSTEM NOTE"

WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE (SUCH AS A BELT BREAKING) IT WILL DISABLE THE LINE VOLTAGE TO THE COOKING EQUIPMENT UNDER THE HOOD. THE EXHAUST FAN SWITCH SHOULD BE PLACED IN THE OFF POSITION AND THE FAN SHOULD BE CHECKED AND/OR REPAIRED BEFORE TURNING THE SWITCH TO THE ON POSITION.

"PARKING LOT LIGHTING NOTE"

WHEN THE PARKING LOT LIGHTS ARE TURNED OFF, THEY MUST COOL DOWN FOR ABOUT 10 MINUTES BEFORE THEY WILL COME BACK ON.

*NOTE: Current sensors are factory wired but must be field adjusted for proper operation. With the hood exhaust fans running, spin the potentiometer dials counterclockwise until the status "OFF" green LED lights and cooking equipment contactors de-energize. Then turn dials back clockwise one full turn. If the current sensors are improperly adjusted, cooking equipment may not shut down or should a hoods exhaust fan fail. If the cooking equipment fails to operate while the hood switches are on and the exhaust fans are running, spin the appropriate setpoint dial clockwise until the status "ON" red LED lights.

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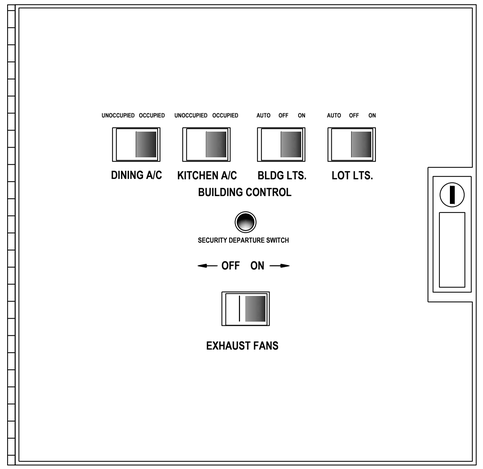
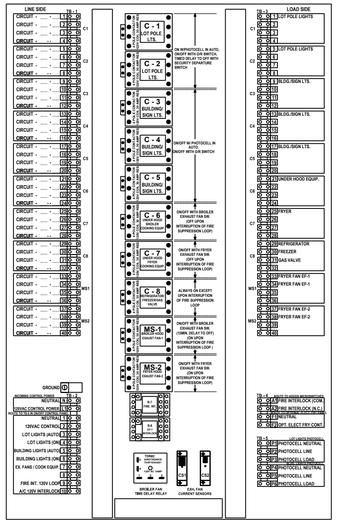
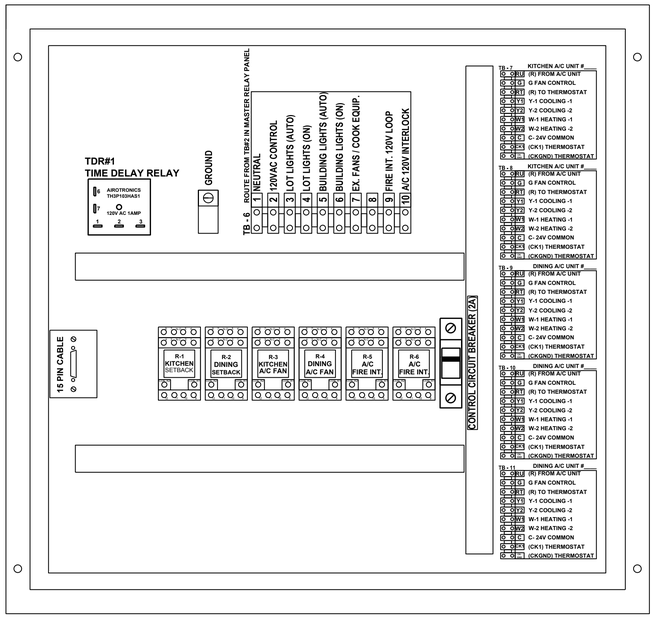
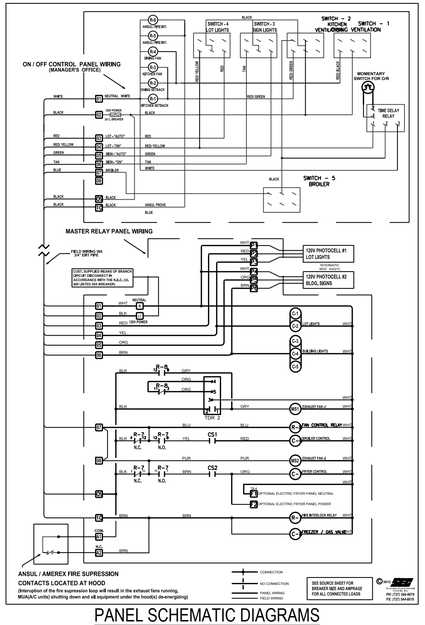








PANEL SCHEMATIC DIAGRAMS

POPEYES
SEQUENCE OF OPERATION

MANUAL CONTROL SYSTEM

THE A/C UNITS UNOCCUPIED-OCCUPIED SWITCH IS USED TO: TURN THE STORE ON IN THE MORNING AND OFF IN THE EVENING.

WHEN A/C UNIT UNOCCUPIED-OCCUPIED SWITCH IS TURNED TO THE ON POSITION:
THE AIR CONDITIONING SYSTEM WILL GO FROM NIGHT MODE TO SYSTEM ON.

THE AIR CONDITIONING FANS WILL START AND RUN CONTINUOUSLY.

THE OUTDOOR DAMPERS WILL OPEN TO A PRESET POSITION. (OPTIONAL)

DAMPERS WILL NOT OPEN DURING NIGHT SET BACK MODE. (OPTIONAL)

THE AIR CONDITIONERS WILL BEGIN TO COOL OR HEAT AT THE OCCUPIED TEMPERATURE SETPOINT.

THE COOKING EQUIPMENT AND EXHAUST FANS CAN NOW BE TURNED ON WHEN NEEDED.

WHEN A/C UNOCCUPIED-OCCUPIED SWITCH IS TURNED TO THE OFF POSITION:
EXHAUST FANS, SUPPLY FANS, AND EVAPORATOR BLOWERS WILL SHUT DOWN.

THE HEATING AND COOLING OPERATION SHALL REVERT TO SYSTEM NIGHT SET BACK MODE.

THE COOKING EQUIPMENT SHALL BE DISABLED.

THE SIGNAGE LIGHTING & LOT LIGHTING SHALL BE DISABLED IF SWITCHES ARE IN THE OFF POSITION.

THE PARKING LOT POLE LIGHTS & SECURITY LIGHTS SHALL REMAIN ON FOR 15 MIN AFTER THE SECURITY DEPARTURE SWITCH IS ACTIVATED.

WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE IT WILL DISABLE THE LINE VOLTAGE TO THE COOKING EQUIPMENT UNDER THE HOOD.

HOOD VENTILATION SYSTEM

IF THE KITCHEN A/C SWITCH IS IN THE OCCUPIED POSITION, THE HOOD VENTILATION SYSTEM CAN BE STARTED.

THE UNDER HOOD EQUIPEMENT SHALL BE STARTED BY MOVING THE EXHAUST FANS ON/OFF SWITCH TO THE ON POSITION. IF THE THE EXHAUST FAN SWITCH IS IN THE ON POSITION, THE MAKE-UP AIR UNIT (IF APPLICABLE) SHALL START AUTOMATICALLY.

ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM SHALL DE-ENERGIZE THE MAKE UP AIR UNIT, ALL A/C UNITS, AND THE CONTROLLED COOKING EQUIPMENT. THE HOODS EXHAUST SYSTEM SHALL CONTINUE TO OPERATE TO DRAW OUT SMOKE. THE FIRE SUPPRESSION SYSTEM SHALL BE MANUALLY RESET.

EXTERIOR LIGHTING CONTROL

ALL OF THE EXTERIOR LIGHTING SHALL BE CONTROLLED, WITH THE EXCEPTION OF THE SECURITY LIGHTS WHICH SHALL BE OPERATED BY ITS OWN PHOTOCELL. SECURITY LIGHTING IS OPTIONAL.

THE SIGNAGE SELECTOR SWITCH (3-POS.) CONTROLS THE PRIME SIGN. ALL MARQUEE SIGNS, AND BULUIDING ACCENT LIGHTING.

ON POSITION: LIGHTING SHALL BE ON PERMANENTLY.

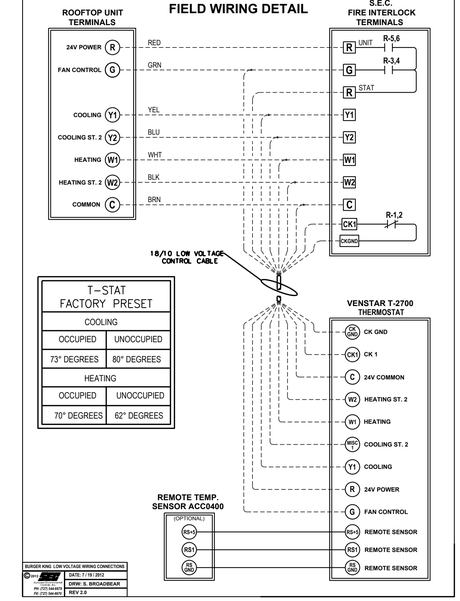
OFF POSITION: LIGHTING SHALL BE OFF PERMANENTLY.

AUTO POSITION: LIGHTING SHALL BE CONTROLLED BY THE PHOTO CELL.

THE LOT LIGHTS THREE POSITION SWITCH WORKS THE SAME AS THE SIGNAGE SWITCH.

NOTE: UNOCCUPIED-OCCUPIED / MASTER RELAY PANEL SHALL BE COMPLETE WHEN SHIPPED TO THE JOB SITE. NO INTERNAL WIRING SHALL BE REQUIRED. MAKE ALL EXTERNAL WIRING CONNECTIONS AS REQUIRED.

LOW VOLTAGE A/C CONTROL FIELD WIRING DETAIL



ELECTRICAL CONTRACTOR NOTES:

1. RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE "UNOCCUPIED-OCCUPIED" PANEL.
2. RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE "UNOCCUPIED-OCCUPIED" PANEL TO THE THERMOSTAT LOCATION.
3. RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE NIGHT SETBACK THERMOSTAT LOCATION. IF NOT CONTROLLED WITH P-374-2700 T-STAT. REFER TO SHEET M-1
4. TERMINATION OF ALL 24 VOLT AIR CONDITIONING CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR.
5. ELECTRICAL CONTRACTOR SHALL RUN LINE VOLTAGE FROM THE CURRENT SENSOR LOCATED IN THE BROILER HOOD EXHAUST FAN TO THE CONTACTOR PANEL LOCATED BY THE SWITCHGEAR.

HVAC INTERLOCK PANEL
NFPA-96 COMPLIANT

DRAWING ISSUED FOR REFERENCE ONLY

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LOUISIANA KITCHEN 19 72
POPEYES

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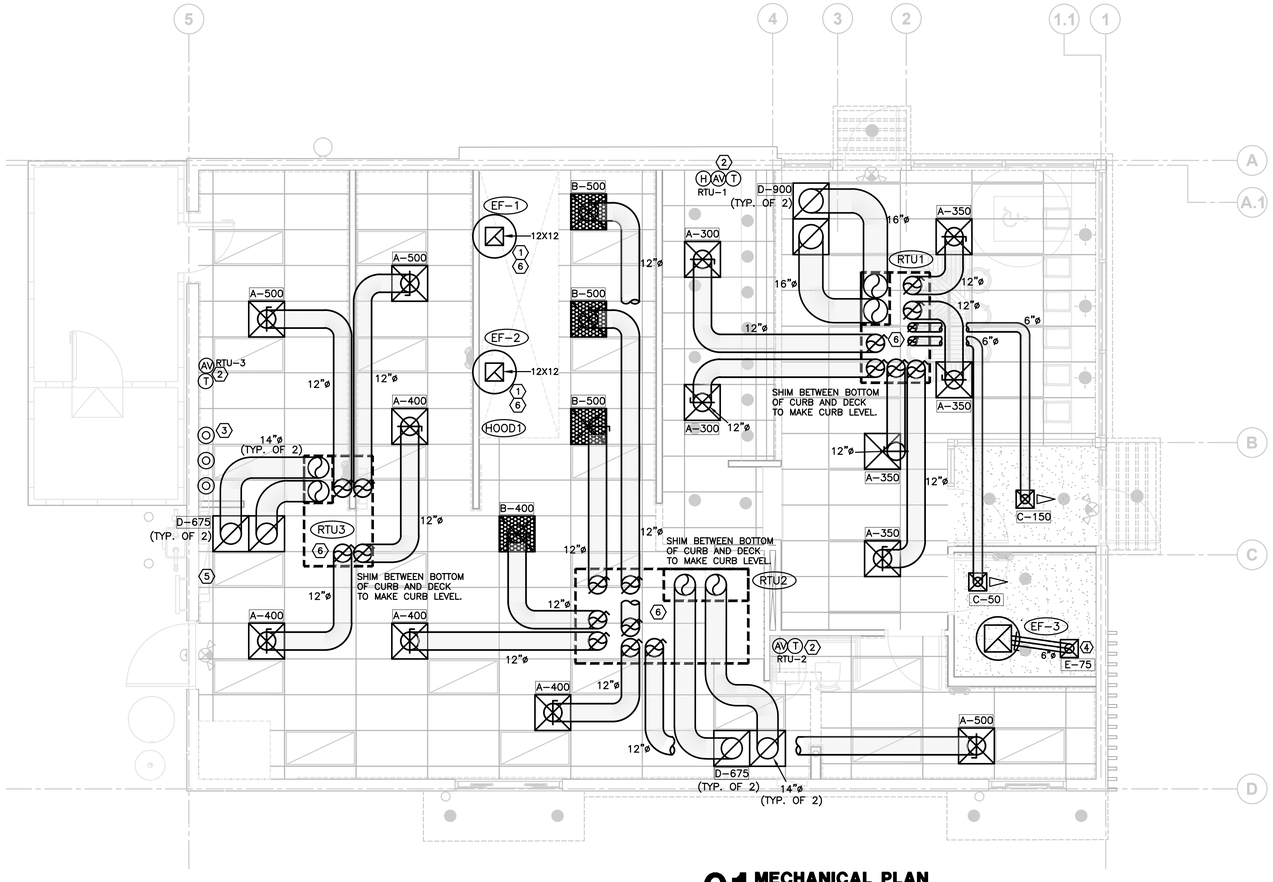

01 MECHANICAL PLAN
1/4"=1'-0"

ATTENTION GENERAL CONTRACTOR:
"RE-ENGINEERING" DEVIATIONS FROM THE SHOWN DESIGN AND REQUIRED HVAC EQUIPMENT MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND PROFESSIONAL ENGINEER. UNAUTHORIZED SUBSTITUTIONS OR ALTERATIONS WILL VOID THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER AND LEAVE VIOLATORS RESPONSIBLE FOR RESUBMISSION OF SIGNED AND SEALED DRAWINGS.

GENERAL NOTES

A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

C. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

AIR DISTRIBUTION SIZING - ROUND DUCT

UNLESS NOTED OTHERWISE ON PLANS, THE FOLLOWING CHART SHALL APPLY TO ROUND DUCT SIZES FOR SUPPLY AIR*, EXHAUST AIR, AND RETURN AIR.

SUPPLY AND EXHAUST AIR CFM RANGE	DUCT SIZE	RETURN AIR CFM RANGE
0-100	6"ø	0-70
105-200	8"ø	75-155
205-395	10"ø	160-285
400-605	12"ø	290-465
610-920	14"ø	470-710
925-1200	16"ø	715-1015

* DIFFUSER NECK SIZES SHALL MATCH SUPPLY AIR DUCT SIZING.

KEYED NOTES

1. PROVIDE TYPE-I HOOD WITH 16 GAUGE BLACK IRON GREASE EXHAUST DUCT CONTINUOUSLY WELDED LIQUID TIGHT WITH CLEAN OUTS AND ACCESS PANELS INSTALLED AT ANY REQUIRED FIELD OFFSETS. SLOPE DUCT TOWARDS HOOD IF ANY HORIZONTAL OFFSETS ARE REQUIRED. COMPLY STRICTLY TO NFPA 96 AND LOCAL CODES. COORDINATE DUCT CONNECTION SIZE, TRANSITION, AND LOCATION WITH HOOD MANUFACTURER. REFER TO DETAILS ON SHEETs M-3.1-4. VERIFY LOCATIONS OF HOOD AND EXHAUST FAN ON SITE WITH MOST RECENT KITCHEN EQUIPMENT PLANS.
2. T-2900 PROGRAMMABLE THERMOSTAT 66" A.F.F. ON WALL NEAR LOCATION INDICATED THIS SHEET. AUDIO-VISUAL ANNUNCIATOR TIED INTO SMOKE DETECTOR. COORDINATE LOCATION ON SITE WITH G.C. AND EQUIPMENT. AVOID SOURCES OF HEAT. SEAL WALL OPENINGS WITH CAULK. RTU-1: HUMIDISTAT SET TO 55% RELATIVE HUMIDITY.
3. PLUMBING CONTRACTOR SHALL PROVIDE COMBUSTION AIR FOR WATER HEATER. DISCHARGE SHALL BE MINIMUM 10 FEET FROM AIR INTAKES. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. USE MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE EXHAUST GRILLE IN RESTROOM OVER TOILET. RUN 6"ø SHEETMETAL DUCT FROM CONNECTION ON GRILLE TO ROOFTOP EXHAUST FAN. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. USE FACTORY-MANUFACTURED PIPE AND FITTINGS ONLY. CONFIRM LOCATION ON SITE.
5. OCCUPIED/UNOCCUPIED PANEL FOR NIGHT SET-BACK LOCATED NEAR SWITCH GEAR. COORDINATE LOCATION ON SITE WITH GENERAL CONTRACTOR AND WALL-MOUNTED EQUIPMENT.
6. SHIM CURBS ON ROOF IN ORDER TO MAKE TOP OF CURBS LEVEL. SEE DETAIL ON SHEET M-4.2.

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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PM: DD M: JTM E: RR P: GR

Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

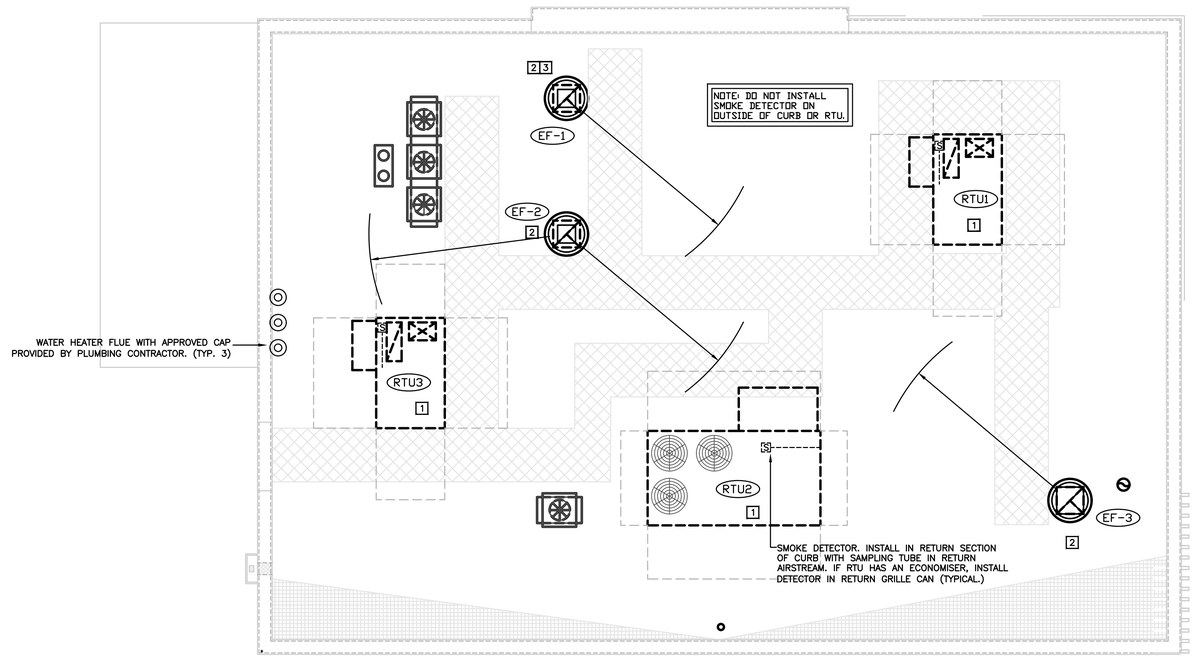
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
MECHANICAL PLAN

Drawn	Checked
JTM	JS
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	M1.1

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN JR.
8-11-23

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



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

MECHANICAL KEY NOTES

1. PROVIDE ROOFTOP UNIT AND CURB. COORDINATE UNIT WITH STRUCTURE. SHIM UNIT AND CURB LEVEL FOR PROPER CONDENSATE DRAINAGE. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN ON SHEET M1.1.
2. INSTALL OWNER FURNISHED ROOF MOUNTED EXHAUST FAN AND CURB.
3. INSTALL OWNER FUNISHED WIND BAND EXTENSION FOR GREASE EXHAUST FAN. EXHAUST TERMINATION MUST BE EQUAL OR HIGHER THAN ANY WALL OR PARAPET WITHIN 5'-0" OF FAN. VERIFY REQUIRED HEIGHT PRIOR TO BID AND COORDINATE WITH HOOD MANUFACTURER FOR ADDITION TO EQUIPMENT PRIOR TO BID.

GENERAL NOTES

A. SEAL ALL ROOF PENETRATIONS WATER TIGHT. COORDINATE ALL PENETRATIONS WITH GENERAL CONTRACTOR AND ROOFING CONTRACTOR.

B. ALL OUTDOOR INTAKES SHALL BE LOCATED AT LEAST 10 FEET FROM EXHAUST OUTLETS, APPLIANCE FLUES AND PLUMBING VENTS.

C. MAINTAIN ALL CODE AND MANUFACTURER'S RECOMMENDED CLEARANCES AROUND ALL ROOF EQUIPMENT.

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Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
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2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

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MECHANICAL ROOF PLAN

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8-11-23

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PLENUMIZED CURB INSTALLATION NOTES

1. CAREFULLY LOCATE AND MARK ROOF CURB LOCATIONS SO THAT DUCT WORK CAN BE INSTALLED IN THE APPROXIMATE LOCATIONS AS SHOWN BY THE FLOOR PLAN. PAY ATTENTION TO THE LOCATION OF THE ROOF STRUCTURE IN ORDER TO ACCOMMODATE THE DUCT DROPS.

2. MARK THE EXACT LOCATION OF EACH ROOF CURB. LAY OUT ALL EQUIPMENT LOCATIONS IN ORDER TO MAINTAIN PROPER CLEARANCES FROM EXHAUST FANS AND VENTS AS WELL AS PROVIDING FOR PROPER SERVICE CLEARANCES.

3. GENERAL CONTRACTOR SHALL CUT ROOF DECKING MATERIAL TAKING CARE TO AVOID CUTTING ANY STRUCTURAL COMPONENTS. GENERAL CONTRACTOR SHALL ALSO INSTALL ANY NECESSARY FRAMING OR BLOCKING AT OPENINGS.

4. WITH ROOF CURB UPSIDE DOWN (SOLID METAL BOTTOM UP) MEASURE AND MARK THE LOCATION OF ANY JOISTS OR OTHER FRAMING MEMBERS THAT MUST BE AVOIDED. MEASURE AND MARK THE LOCATION OF ALL THE DUCT TAPS.

5. CUT ALL DUCT TAPS INTO THE BOTTOM PANEL OF THE ROOF CURB. BE CAREFUL NOT TO DAMAGE THE ROOFING SURFACE WHILE MAKING THESE CUTS.

6. INSTALL DUCT TAP FITTINGS AND MANUAL DAMPERS INTO THE OPENINGS PREVIOUSLY CUT. SEAL ALL CONNECTIONS ON BOTH THE BOTTOM AND THE TOP SIDES OF THE TAPS.

7. FLATTEN TAB OF START COLLAR INSIDE CURB, TIGHT AGAINST INSULATION. SEAL INSIDE OF COLLAR AND TABS TO INSULATION USING MASTIC DUCT SEALER. ALLOW SEALER TO DRY PRIOR TO PROCEEDING.

8. APPLY DUCT SEALER TO OPEN END OF COLLAR. SLIDE INNER CORE OF FLEXIBLE DUCT ONTO COLLAR, AND CONNECT PANDUIT STRAP PER MANUFACTURERS INSTRUCTIONS.

9. SLIDE OUTER INSULATION SLEEVE OF FLEX TIGHT TO BOTTOM OF CURB. SEAL INSULATION TO BOTTOM OF CURB WITH PRESSURE–SENSITIVE FOIL TAPE. DO NOT USE TAPE MEANT FOR RIGID DUCTBOARD. SQUEEGEE OUT ALL AIR BUBBLES FOR PROPER ADHESION.

10. TURN CURB RIGHT SIDE UP, LEVEL CURB BETWEEN BOTTOM OF CURB AND DECK, INSTALL IN ROOF OPENING. SECURE CURB TO ROOF FRAMING AS REQUIRED.

11. GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF IN THE CURB AS DETAILED ON THE DRAWINGS.

12. INSIDE BUILDING, THE DUCT RUNS SHALL BE INSTALLED FROM THE TAPS TO THE DIFFUSER LOCATIONS AS SHOWN ON THE PLANS. SUPPORT PER SMACNA AND LOCAL CODES.

13. NOTE: IF NECESSARY, FLEX DROPS MAY BE CONNECTED TO TAPS AFTER CURB HAS BEEN INSTALLED. REFER TO STEPS #8 AND #9.

AIR BALANCE SCHEDULE

TAG	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR	BLDG. PRESSURE	% OUTSIDE AIR
RTU–1	2200 CFM	400 CFM	1800 CFM	---	+ 400 CFM	18
RTU–2	3400 CFM	2050 CFM	1350 CFM	---	+ 2050 CFM	60
RTU–3	1800 CFM	450 CFM	1350 CFM	---	+ 450 CFM	25
EF–1	---	---	---	1230 CFM	– 1230 CFM	---
EF–2	---	---	---	1230 CFM	– 1230 CFM	---
EF–3	---	---	---	150 CFM	– 150 CFM	---
TOTAL	7400 CFM	2900 CFM	4500 CFM	2610 CFM	+ 290 CFM	39

AIR DEVICE SCHEDULE

SYM.	SIZE	TYPE	DUCT SIZE	MODEL#	FINISH	BOOT SIZE	OPENING SIZE	QTY.
A*	24X24	SUPPLY 4 WAY	PER PLAN	NCA12	WHITE	12"ø	T–BAR	13
B**	24X24	SUPPLY PERF.	PER PLAN	APDF3–1424	WHITE	12"ø	T–BAR	4
C***	12X12	SUPPLY 1 WAY	6"ø	630	WHITE	12X12	SIZE + 1/4"	2
D	24X24	RETURN	PER PLAN	630TB	WHITE	22X22	T–BAR	6
E	12X12	EXHAUST	6"ø	630	WHITE	12X12	SIZE + 1/4"	1

ALL DIFFUSERS SHALL BE MANUFACTURED BY METALAIRE OR EQUIVALENT AND 100% ALUMINUM CONSTRUCTION
* PROVIDE WITH PVCR9 SLIDING–BLADE DAMPER
** PROVIDE WITH EIGHT 14"ø–TO–12"ø REDUCERS FOR TOPS OF DIFFUSERS
*** PROVIDE WITH DUAL DEFLECTION BLADES AND OPPOSED–BLADE DAMPER
**** PROVIDE WITH OPPOSED–BLADE DAMPER
PROVIDE WITH SIX 24X24 LAY–IN FRAMES FOR INSTALLATION OF 'A,' 'C,' AND 'F' IN SHEETROCK CEILING

PACKAGE ROOFTOP UNIT SCHEDULE (RTU–1,2,3)

TAG	RTU–1	RTU–2	RTU–3
MANUFACTURER	CARRIER	CARRIER	CARRIER
MODEL	48GCFN06 (5 TON)	48LC4H12 (10 TON)	48GCFN06 (5 TON)
LOCATION, CURB DIMENSIONS	ROOF, 78" X 50"	ROOF, 116" X 63"	ROOF, 78" X 50"
TYPE OF HEAT	NATURAL GAS	NATURAL GAS	NATURAL GAS
TOTAL COOLING CAPACITY, MBTU/HR	64.1	116.1	61.6
SENSIBLE COOLING CAPACITY, MBTU/HR	51.6	84.7	44.9
ENTERING AIR CONDITIONS, DBF/WBF	80/67	80/67	80/67
AMBIENT AIR DB TEMPERATURE, °F	95	95	95
SUPPLY AIR, CFM	2200	3400	1800
OUTSIDE AIR, CFM	SEE SCHEDULE	SEE SCHEDULE	SEE SCHEDULE
EXTERNAL STATIC PRESSURE, "WG	0.75	0.75	0.75
BHP – MEDIUM STATIC MOTOR	1.4	2.4	1.4
E.E.R.	12.5	13.0	12.5
GAS INPUT MBTU/HR	120/150	144/180	120/150
GAS OUTPUT MBTU/HR	96/120	118/146	96/120
UNIT WEIGHT, LBS.	810	1884	810
ELECTRICAL REQUIREMENT, V/PHASE/HZ	208–230/3/60	208–230/3/60	208–230/3/60
MINIMUM CIRCUIT AMPERAGE	31.0	50.0	31.0
MAXIMUM OVER CURRENT PROTECTION	45	60	45

ACCESSORIES:
1. 100% ECONOMISER WITH BAROMETRIC RELIEF
2. NCA PLENUMIZED CURB. TO ORDER CALL TOLL–FREE (877) 530–0078.
3. ONE YEAR COMPLETE PARTS AND LABOR WARRANTY
4. ADDITIONAL FOUR YEAR PARTS WARRANTY COVERING COMPRESSORS
5. SMOKE DETECTOR (SEE HVAC ROOF PLAN, SHEET M–2)
6. AQUAGUARD AG–31B0E MOISTURE SENSOR FOR PRIMARY PAN
7. RTU–1 ONLY: HUMIDIMISER HOT GAS RE–HEAT COIL WITH HUMIDISTAT SET TO 55% R.H.
NOTE: COORDINATE RTU PLACEMENT ON SITE PRIOR TO SETTING EQUIPMENT. IF ADJUSTMENT IS NECESSARY MAINTAIN FRESH AIR INTAKE CLEARANCES

FAN SCHEDULE

UNIT NUMBER	EF–1,2	EF–3
AREA SERVED	HOOD–1	RESTROOMS
MANUFACTURER	FRANKE	FRANKIE
MODEL	FR–DU50HFA	FR–DR10HFA
CFM	1230 (EACH)	150
STATIC PRESSURE, "WG	0.80	0.25
FAN HORSEPOWER	0.50	0.06
DRIVE	DIRECT	DIRECT
RPM	1500	1065
ELECTRICAL V/ø/HZ	120/1/60	120/1/60
NCA CURB LXWXH	19.5X19.5X24	17.5X17.5X12
ACCESSORIES	B,D,E,H,J,K,L,M	A,B,D,E,G,H,L,M

NOTES/ACCESSORIES
A. ALUMINIZED BIRDSCREEN
B. SAFETY DISCONNECT SWITCH
C. GRAVITY BACKDRAFT DAMPER
D. AMCA SEAL & U.L. CERTIFIED
E. SPEED CONTROL
G. INTERLOCK WITH SALES FLOOR LIGHTS
H. 12" HIGH PREFABRICATED ROOF CURB
J. INTERLOCKED BY ELECTRICAL PER NFPA96 AND LOCAL CODES
K. REFER TO AIR BALANCE SCHEDULE
L. ENSURE 10' – 0" MINIMUM CLEARANCE FROM AIR INTAKES
M. COORDINATE WITH MANUFACTURER FOR FINAL SELECTION

NCA HVAC EQUIPMENT PACKAGE

PLAN AND SPECIFICATIONS AS PER P.E. SEAL

POPEYES LOUISIANA KITCHEN HAS A NATIONAL ACCOUNT AGREEMENT WITH THE NCA GROUP. NCA SHALL VISIT THE SITE, AS AUTHORIZED, TO VERIFY ALL MATERIALS, EQUIPMENT, AND INSTALLATION ARE PER THE PROFESSIONAL ENGINEER SEAL. PLANS ARE NCA DESIGN COPYRIGHT 2021.

FOR COMPLETE INFORMATION AND PRICING ON THE FOLLOWING PACKAGE OF EQUIPMENT AND ACCESSORIES CONTACT THE NCA GROUP MARKETING DEPARTMENT TOLL–FREE AT (877) 530–0078.

HEATING COOLING EQUIPMENT PACKAGE
INCLUDES ALL ROOFTOP (OR SPLIT SYSTEM) AIR CONDITIONING EQUIPMENT WITH ALL ACCESSORIES AS SPECIFIED ON THESE PLANS.

FAN PACKAGE
INCLUDES ALL FANS WITH ALL ACCESSORIES AS SPECIFIED ON THESE PLANS.

AIR DEVICE PACKAGE
INCLUDES ALL GRILLES, REGISTERS AND DIFFUSERS PER PLANS. SQUARE TO ROUND TRANSITIONS PROVIDED WHERE REQUIRED.

CURB PACKAGE
INCLUDES ONE–PIECE, FULLY WELDED NCA PLENUMIZED ROOF CURBS FOR ALL ROOF MOUNTED HEATING/COOLING EQUIPMENT, AND ALL FAN CURBS. ALTERNATIVES TO NCA PLENUMIZED CURBS MAY NOT BE USED.

EXHAUST HOOD PACKAGE
INCLUDES EXHAUST FANS, HOODS, SHROUDS AND ANSUL SYSTEM, AS CODE REQUIRES.

CONTROLS PACKAGE
INCLUDES PRESET DIGITAL THERMOSTATS, THERMOSTAT WIRE, LOCKING COVERS, AND AS CODE REQUIRES SMOKE DETECTORS AND AUDIBLE–VISUAL DEVICES; OCCUPIED/UNOCCUPIED PANEL, AND INTERLOCK PANEL, IF REQUIRED.

NOTE: "RE–ENGINEERING" DEVIATIONS FROM THE SHOWN DESIGN AND REQUIRED HVAC EQUIPMENT MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND PROFESSIONAL ENGINEER. UNAUTHORIZED SUBSTITUTIONS OR ALTERATIONS WILL VOID THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER AND LEAVE VIOLATORS RESPONSIBLE FOR RESUBMISSION OF SIGNED AND SEALED DRAWINGS

CONTRACTORS NOTES

HVAC CONTRACTOR
1. THE HVAC CONTRACTOR IS TO FURNISH AND INSTALL THE HOOD(S,) ROOF–TOP UNITS, EXHAUST FANS, DUCTWORK, INSULATION WRAP, DIFFUSERS, SMOKE DETECTORS, AND TEMPERATURE CONTROLS.

2. THE HVAC CONTRACTOR IS TO VERIFY LOCATIONS FOR THE HOOD(S) AND HOOD FAN(S) ON SITE FROM MOST–RECENT KITCHEN EQUIPMENT PLANS. ALL FANS ARE TO BE UL LISTED.

3. ALL HVAC EQUIPMENT CURBS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR.

4. ALL RTU CURBS ARE TO BE FABRICATED FROM 18 GA. GALVANIZED METAL WITH FULLY WELDED SEAMS, WATER TIGHT AND INTERNALLY INSULATED. FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.

5. SHIMS ARE TO BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURBS TO COMPENSATE FOR ROOF PITCH.

6. ALL FLEX DUCT IS TO BE U.L. LISTED, R–6, FOIL–BACKED, CLASSIFIED AS A CLASS 1 AIR DUCT.

7. ALL METAL DUCT AND AIR DISTRIBUTION DEVICES ARE TO BE INSULATED WITH R–6, 2" X .75 DENSITY FOIL–BACKED INSULATION, WITH FIRE AND SMOKE RATING [25]–[50].

8. ALL DUCTWORK IS TO BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.

9. ALL DUCTWORK IS TO BE FABRICATED, INSTALLED, SEALED, AND EXTERNALLY INSULATED PER SMACNA LOW–VELOCITY DUCT MANUAL (LATEST ISSUE). INTERNALLY LINED DUCTWORK IS NOT ALLOWED.

10. UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS ARE TO HAVE A MANUAL VOLUME CONTROL DAMPER.

11. THE HVAC CONTRACTOR IS TO COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN.

12. THE HVAC CONTRACTOR IS TO FURNISH A WRITTEN GUARANTEE COVERING A ONE–YEAR PERIOD FOR ALL HVAC EQUIPMENT AND PROVIDE AN ADDITIONAL FOUR–YEAR PERIOD FOR THE COMPRESSORS IN THE RTUS. ALL FANS TO BE U.L. LISTED.

13. UPON COMPLETION OF PROJECT THE HVAC CONTRACTOR IS TO HIRE AN A.A.B.C., N.E.B.B., OR N.C.I. CERTIFIED, INDEPENDENT TEST AND BALANCE COMPANY TO CONDUCT A COMPLETE, CERTIFIED TEST AND BALANCE OF ALL HVAC EQUIPMENT. PROVIDE A WRITTEN REPORT TO NCA CONSULTANTS. ALL CAPACITIES MUST BE SET TO AMOUNTS INDICATED ON THE FLOOR PLANS AND SCHEDULES.

14. THE HVAC CONTRACTOR IS TO MAKE ALL LOW–VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING TEMPERATURE CONTROLS, RTUS, AND SMOKE DETECTORS.

GENERAL CONTRACTOR
1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. ALL MATERIAL MUST BE STORED INSIDE THE BUILDING. HOOD(S) MUST BE STORED IN THE KITCHEN.

2. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENING. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT PLAN AND EXHAUST HOOD PLANS. OBTAIN THE CORRECT PLANS FROM THE KITCHEN EQUIPMENT SUPPLIER.

3. RTU ROOF OPENING SIZES AND ROOF CURBS ARE BASED ON EQUIPMENT SHOWN. IF OTHER EQUIPMENT IS USED, VERIFY ROOF OPENING REQUIREMENTS. MAKE PENETRATION AS NEEDED FOR INSTALLATION OF NEW CURB AND RTU. COORDINATE ON SITE WITH HVAC CONTRACTOR. ENSURE THAT ROOFING MATERIAL DOES NOT COVER THE TOP OF ANY HVAC EQUIPMENT CURB.

4. ALL ROOF, CEILING, WALL, AND STRUCTURAL FRAMING REQUIRED FOR UNIT, FAN, DUCT, DIFFUSER, AND ALL OTHER HVAC WORK IS TO BE BY THE G.C. COORDINATE ON SITE WITH HVAC CONTRACTOR. GENERAL CONTRACTOR IS TO PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF–MOUNTED HVAC EQUIPMENT PER IBC AND LOCAL CODES. ANY REQUIRED PAINTING OF HVAC WORK IS TO BE BY THE GENERAL CONTRACTOR.

5. IF NECESSARY THE GENERAL CONTRACTOR IS TO REMOVE, REPLACE, AND/OR REPAIR CEILING GRID AND TILES IN ORDER FOR THE HVAC WORK TO BE PERFORMED.

ELECTRICAL CONTRACTOR
1. THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL PITCH POCKETS FOR POWER AND CONTROL WIRING, AND IS TO MAINTAIN 12" MINIMUM CLEARANCE FROM BACK PANEL OF AIR CONDITIONING UNITS. DO NOT PENETRATE BOTTOM OF RTU CURB.

2. THE ELECTRICAL CONTRACTOR IS TO INSTALL LOW–VOLTAGE CONTROL WIRING FOR ALL AIR CONDITIONING CONTROLS.

3. THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL DISCONNECTS FOR RTUS, WIRE THE RESTROOM EXHAUST FAN TO RUN CONTINUOUSLY WHILE THE DINING ROOM LIGHTS ARE ON, AND WIRE KITCHEN / HOOD EXHAUST FANS THROUGH THE OCCUPIED / UNOCCUPIED PANEL. NOTE: IF THE PANEL IS NOT UTILIZED, AND IF THE HOOD FANS ARE NOT CONTROLLED BY TEMPERATURE PROBES IN THE HOOD DISCHARGE COLLARS (SEE HOOD DETAILS, THIS SET) AND IF THE HOOD FANS AREN'T CONTROLLED BY SWITCHES ON THE FACES OF THE RESPECTIVE HOODS, THEN THE ELECTRICAL CONTRACTOR IS TO WIRE THE KITCHEN / HOOD FANS TO BE ENERGIZED DURING STORE OPERATIONAL HOURS. SEE 'FAN SCHEDULE,' THIS SHEET.

4. THE ELECTRICAL CONTRACTOR IS TO USE A MINIMUM OF 4'–6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.

5. FOR EACH UNIT, THE ELECTRICAL CONTRACTOR IS TO PROVIDE ONE SINGLE–GANG RECEPTACLE TEST STATION FOR THE REMOTE SENSOR AND/OR T–STAT, AND ONE DOUBLE–GANG RECEPTACLE TEST STATION FOR THE ANNUNCIATOR, WITH GREEN AND RED LIGHT INDICATORS. THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL RECEPTACLE FOR RTU–1 HUMIDISTAT.

PLUMBING CONTRACTOR
1. THE PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL CONDENSATE DRAINS/GAS PIPING FOR ALL HVAC EQUIPMENT, AND PITCH POCKETS FOR RTU CONNECTIONS. DO NOT PENETRATE BOTTOM OF RTU CURB.

2. THE PLUMBING CONTRACTOR IS TO COORDINATE PLUMBING VENT STACKS AND WATER HEATER FLUES WITH OUTSIDE AIR INTAKES OF A/C UNITS. 10'–0" MINIMUM CLEARANCE REQUIRED OR PER LOCAL CODE.

3. THE PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'–0" MINIMUM CLEARANCE TO AIR INTAKES, OR PER LOCAL CODE. COORDINATE ON SITE WITH G.C. AND HVAC CONTRACTOR.

ENERGY REQUIREMENTS:

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE	3A
EXTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	16
SUMMER DRY BULB	93
INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	72
SUMMER DRY BULB	75
RELATIVE HUMIDITY	50
BUILDING LOADS:	
BUILDING HEATING LOAD	147.3 MBH
BUILDING COOLING LOAD	236.9 MBH
MECHANICAL SPACE CONDITIONING SYSTEM	
UNITARY:	
DESCRIPTION OF UNIT	SEE SCHEDULES
HEATING EFFICIENCY	SEE SCHEDULES
COOLING EFFICIENCY	SEE SCHEDULES
HEAT OUTPUT OF UNIT	SEE SCHEDULES
COOLING OUTPUT OF UNIT	SEE SCHEDULES
BOILER	
TOTAL BOILER OUTPUT	NA
CHILLIER	
TOTAL CHILLIER OUTPUT	NA
LIST EQUIPMENT EFFICIENCIES	SEE SCHEDULES
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)	
MOTOR HORSEPOWER	SEE SCHEDULES
NUMBER OF PHASES	SEE SCHEDULES
MINIMUM EFFICIENCY	SEE SCHEDULES
MOTOR TYPE	SEE SCHEDULES
NUMBER OF POLES	SEE SCHEDULES

TABLE 403.3 OA REQUIREMENTS

ROOM	AREA (SF)	AREA RATE	AREA CFM	PEOPLE CALCULATION BASIS	NO. OF PEOPLE	PEOPLE RATE	PEOPLE CFM	TOTAL REQUIRED CFM
DINING	491	0.18 CFM/SF	88	70 P / 1000 SF	34	7.5 CFM / P	255	343
KITCHEN	931	–	–	–	–	–	–	
CORR / UTILITY	169	0.06 CFM/SF	10	–	–	–	–	10

TOTAL OUTSIDE AIR REQUIRED = 353 CFM

MECHANICAL CONTRACTOR TO ADJUST OUTSIDE AIR QUANTITIES PER THE FOLLOWING SCHEDULE:
RTU–1 = 400 CFM
RTU–2 = 2050 CFM
RTU–3 = 450 CFM

TOTAL OUTSIDE AIR PROVIDED = 2900 CFM.

*KITCHEN REQUIRES 0.7 CFM/SF EXHAUST: 931 SF x 0.7 CFM/SF = 652 CFM EXHAUST MINIMUM, EF–1 PROVIDES 1,230 CFM OF EXHAUST.

8–11–23

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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www.shultzeg.com LEED AP
NCICO LIC# 2012-0168
PM: DD Mc: JTM E: RR P: GR

Company Logo

Project

LOUISIANA KITCHEN 19 72
POPEYES

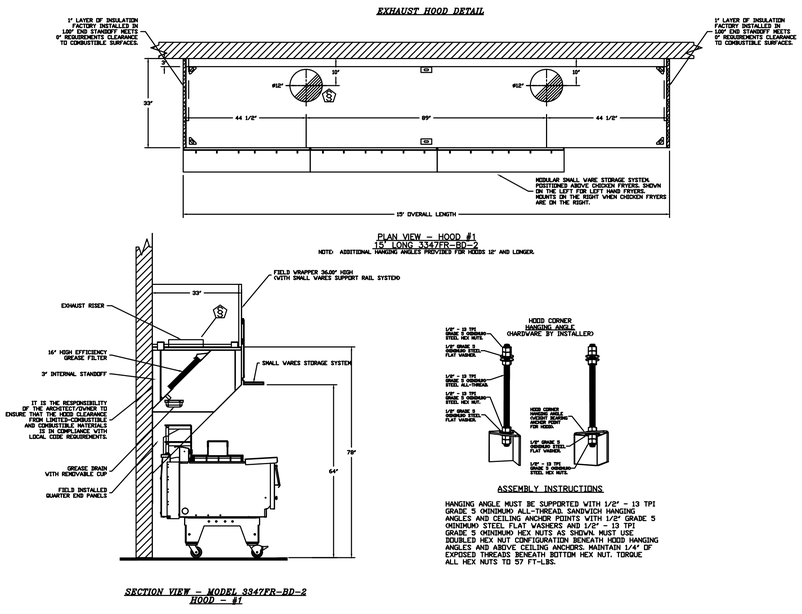
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
MECHANICAL SCHEDULES

Drawn	Checked
JTM	JS
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	M2.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



1 EXHAUST HOOD DETAIL
1 SCALE: NO SCALE

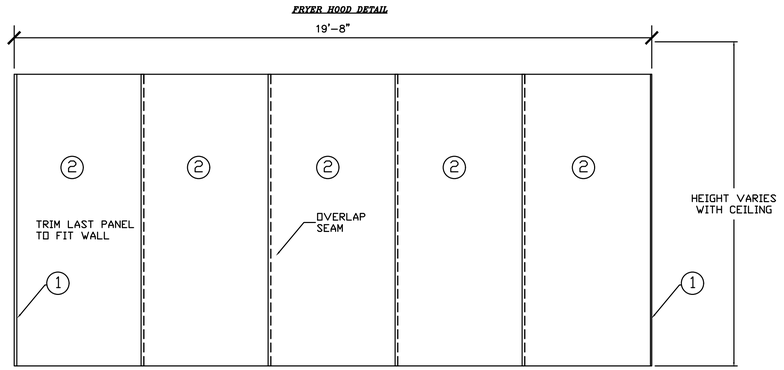
FRANKE

PLK 2112
15' HOOD PACKAGE

FRANKE FOODSERVICE SYSTEMS AMERICAS, INC.

800 AVIATION PARKWAY
SMYRNA, TN USA 37167

PHONE: 1-800-877-5178
WWW.FRANKESUPPLY.COM
FS-BKSALES.US@FRANKE.COM



ITEM	QTY	DESCRIPTION
1	2	S/S CAP STRIP
2	5	WALL FLASHING 48" WIDE

2 BACKSPLASH DETAIL
1 SCALE: NO SCALE

Re ision	Date	Description	By
-	-	-	AM029
A	10/01/20	INITIAL ISSUE	

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

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NC FIRM LICENSE NUMBER: C-0898
PM: DD M: JTM E: RR P: GR

FRANKE

Franke Foodser ice Systems Americas, Inc.

800 A lation Parkway
Smyrna, TN USA 371 7

Tel. 800 472-2954
s customerser ice.us ranke.com
www. rankesupply.com

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Account:
POPEYES
Restaurant #
PLK 2112
Title
WALL MOUNTED INSTALLATION DETAIL
Site ID
-
Operator
-
Site Address
-
City
-
State - Zip Code - Country
-
Region
Building Type
-
Electrical Service
-
Gas Service
-
Market Manager
-
Franke Project Number
-
Created by:
HP033
Date Issued
10/01/20
Modified By:
AM029
Drawing Scale
AS NOTED
Units
INCHES
Revision
A
Drawing Number
-
Sheet Name
1 OF 4

Project
LOUISIANA KITCHEN 19 72
POPEYES
Store Type
US 2112 PROTOTYPE
2112-21
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA
Drawing Title
MECHANICAL HOOD DRAWINGS

Drawn	Checked
Scale	Date 8/11/23
Project No. G23-29	Drawing No. M3.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC; 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

EXHAUST FAN DATA

EXHAUST FAN INFORMATION - PLK 2136 PROTO

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	#	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-LEFT	1	FR-DU30HFA	FRANKE FOODSERVICE	1231	0.800	1501	TEAO-ECM	0.500	0.3500	1	115	6.3	468 FPM	78	15.9
2	EF-RIGHT	1	FR-DU30HFA	FRANKE FOODSERVICE	1231	0.800	1501	TEAO-ECM	0.500	0.3500	1	115	6.3	468 FPM	78	15.9

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-LEFT	1	GREASE BOX.
		1	EXHAUST FAN HEAT BAFFLE.
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
2	EF-RIGHT	1	GREASE BOX.
		1	EXHAUST FAN HEAT BAFFLE.
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.

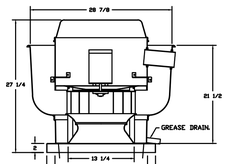
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-LEFT	YES						
2	EF-RIGHT	YES						

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-LEFT	34 LBS	CURB	19.500"W X 19.500"L X 24.000"H HINGED.
2	# 2	EF-RIGHT	34 LBS	CURB	19.500"W X 19.500"L X 24.000"H HINGED.

FANS #1 (EF-LEFT), #2 (EF-RIGHT) - FR-DU30HFA EXHAUST FAN



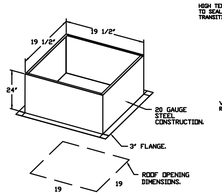
FEATURES:

- DIRECT DRIVE CONSTRUCTION AND BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

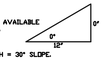
NORMAL TEMPERATURE TEST:
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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

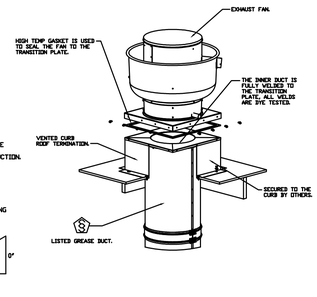
OPTIONS
GREASE BOX.
EXHAUST FAN HEAT BAFFLE.
FRANKE'S SHAFT CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.

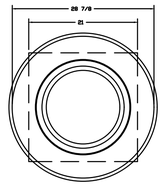


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



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





4 2 EXHAUST FAN DATA
SCALE: NO SCALE

EXHAUST HOOD DATA

HOOD INFORMATION - PLK 2136 PROTO

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM SIZE(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	HOOD CONFIG ROW
1		3347 FR-80-2	FRANKE FOODSERVICE	14' 10"	450 DEG	1	MEDIUM	166	2462			4"	12"	1231	1567	-0.734"	430 SS WHERE EXPOSED	ALONE	ALONE
												4"	12"	1231	1567	-0.734"			

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		HIGH EFFICIENCY	11	16"	16"	>70%	0									YES	449 LBS

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO FRANKE FOODSERVICE SYSTEMS MODEL 'FRDW' ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL 'FRDW' IS LISTED TO UL-1978 AND IS INSTALLED USING 'V' CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL 'FRDW' DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL 'DW' HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO FRANKE FOODSERVICE SYSTEMS MODEL 'FRDW- 2R, 2R TYPE HT, 3R, OR 3Z' ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

FRANKE FOODSERVICE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

- "

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE _____
YOUR TITLE _____ DATE _____ _____

3 2 EXHAUST HOOD DATA
SCALE: NO SCALE

RESTROOM EXHAUST FAN DATA

EXHAUST FAN INFORMATION - JOB PLK PROTO

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	#	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
3	RESTROOM	1	FR-DR10HFA	75	0.25	1015	TEAO-ECM	0.166	0.02	1	115	1.9		50	1.9

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
3	RESTROOM	1	1 12-30D DAMPER.
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.

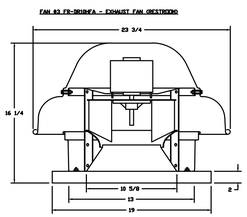
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
3	RESTROOM		YES					

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
3	# 3	RESTROOM	25 LBS	CURB	17.500"W X 17.500"L X 20.000"H .

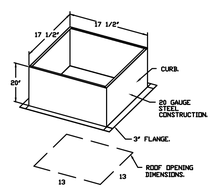
FAN #3 FR-DR10HFA - EXHAUST FAN (RESTROOM)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

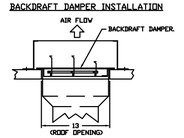
OPTIONS
1 12-30D DAMPER.
ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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

BACKDRAFT DAMPER INSTALLATION



CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE _____
YOUR TITLE _____ DATE _____ _____

5 2 RESTROOM EXHAUST FAN DATA
SCALE: NO SCALE

No.	Re ision	Date	Description	By
-	A	10/01/20	INITIAL ISSUE	AM029
-				
-				

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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FRANKE

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s customerser ice.us ranke.com
www.rankesupply.com

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Account:
POPEYES
Restaurant #
PLK 2112
Title
WALL MOUNTED INSTALLATION DETAIL
Site ID
-
Operator
-
Site Address
-
City
-
State
-
Zip Code
-
Country
-
Region
-
Building Type
-
Electrical Service
-
Gas Service
-
Market Manager
-
Franke Project Number
-
Created by:
HP033
Date Issued
10/01/20
Modified By:
AM029
Drawing Scale
AS NOTED
Units
INCHES
Revision
A
Drawing Number
-
Sheet Name
2 OF 4

LOUISIANA KITCHEN 19 72
POPEYES

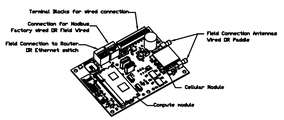
Project
Store Type
US 2112 PROTOTYPE
2112-21
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA
Drawing Title
MECHANICAL HOOD DRAWINGS

Drawn	Checked
Scale	Date 8/11/23
Project No. G23-29	Drawing No. M3.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC; 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

ELECTRICAL PACKAGE – JOB#4702950

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	S	HP	VOLT	FLA
1		SC-120110MA_MA4	WALL MOUNT IN SS BOX	05 – SS WALL MOUNT BOX	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-LEFT	EXHAUST	1	0.500	115	6.3
							EF-RIGHT	EXHAUST	1	0.500	115	6.3



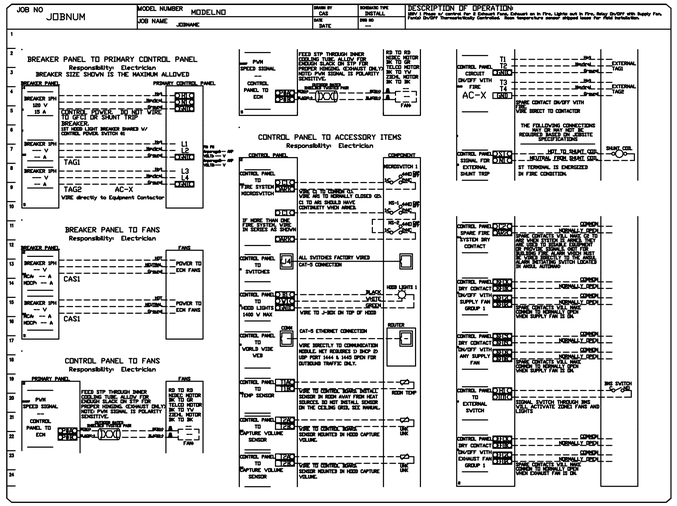
CASlink Monitor and Control

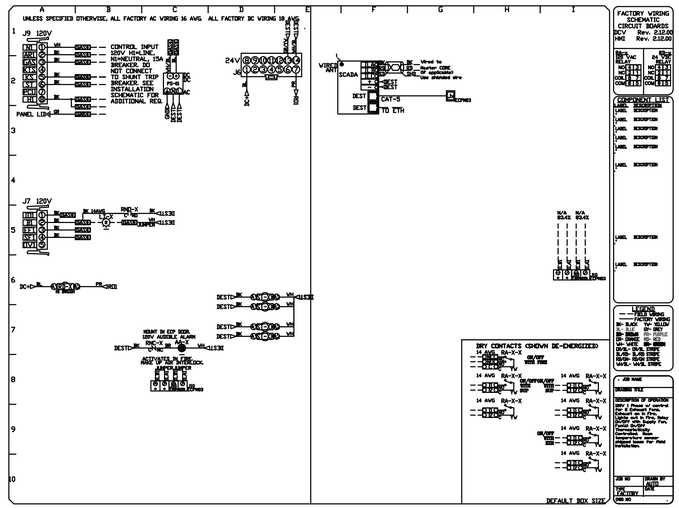
– Hood control panel to support communications to cloud–based Building Management System.
– Hood Control Panel to allow cloud–based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
– Hood Control Panel to allow cloud–based Building Management System to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

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCC Faults	MONITOR
PCC Status	MONITOR
PCC Filter Clog Percentage	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressure	MONITOR
Prop Flow Station	MONITOR & CONTROL
Fans Station	MONITOR & CONTROL
Lights Station	MONITOR & CONTROL
Push Station	MONITOR & CONTROL

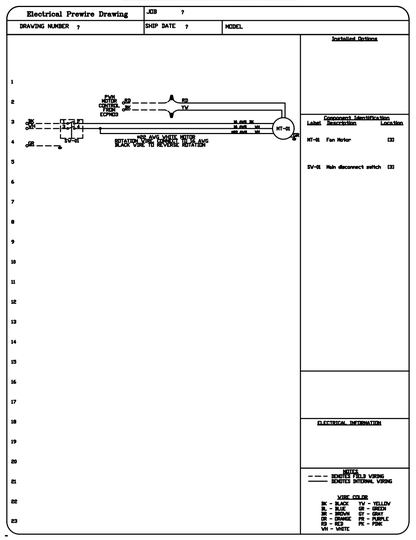
IC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCC Faults	MONITOR
PCC Status	MONITOR
PCC Filter Clog Percentage	MONITOR
Fans Station(s)	MONITOR & CONTROL
Lights Station(s)	MONITOR & CONTROL
Push Station	MONITOR & CONTROL



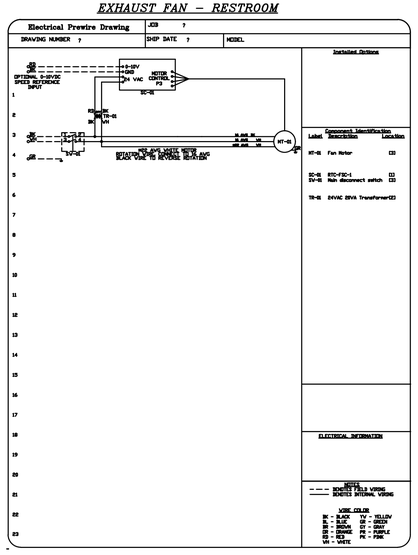


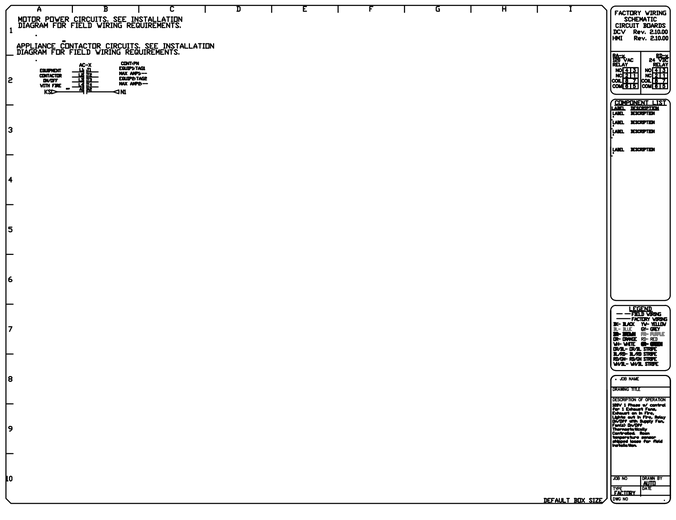
CONTROL SCHEMATIC – EXHAUST FANS

EXHAUST FAN – 12' HOOD



EXHAUST FAN – RESTROOM





6 CONTROL SCHEMATIC
3 SCALE: NO SCALE

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

Re ision	Date	Description	By
-	-	-	AM029
A	10/01/20	INITIAL ISSUE	

PROJECT NORTH

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Account:	POPEYES
Restaurant #	PLK 2112
Title	WALL MOUNTED INSTALLATION DETAIL
Site ID	–
Operator	–
Site Address	–
City	–
State	–
Zip Code	–
Country	–
Region	–
Building Type	–
Electrical Service	–
Gas Service	–
Market Manager	–
Franke Project Number	–
Created by:	HP033
Date Issued	10/01/20
Modified By:	AM029
Drawing Scale	AS NOTED
Units	INCHES
Revision	A
Drawing Number	–
Sheet Name	3 OF 4

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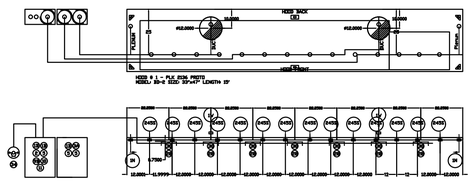
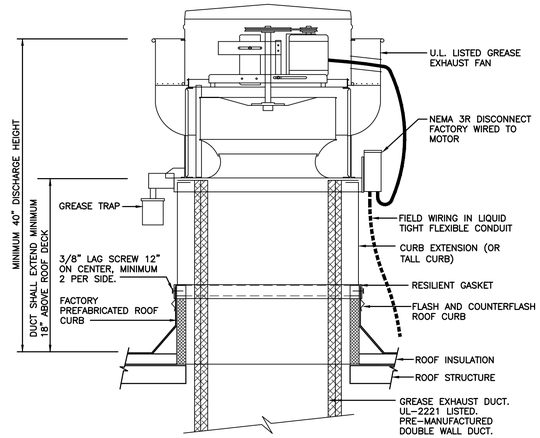
Project
LOUISIANA KITCHEN 1972
POPEYES

Store Type	US 2112 PROTOTYPE 2112-21
Location	PROTOTYPE 2112 (U.S.) 503 W. 3RD STREET PEMBROKE, NORTH CAROLINA
Drawing Title	MECHANICAL HOOD DRAWINGS
Drawn	
Checked	
Scale	
Date	8/11/23
Project No.	G23-29
Drawing No.	M3.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

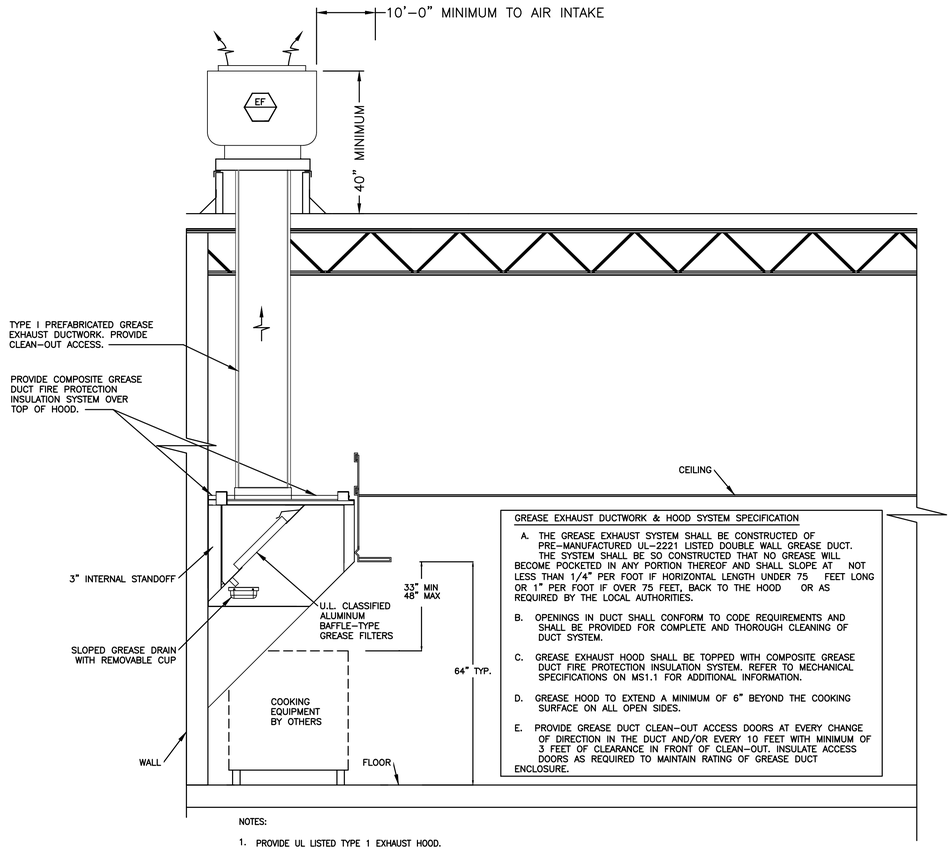
DUAL ANSUL SYSTEM - CHICKEN AND FRY HOODS


HOOD BACK
DIM
DIM
DIM



NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.

01 ROOF MOUNTED GREASE EXHAUST FAN DETAIL
NOT TO SCALE



GREASE EXHAUST DUCTWORK & HOOD SYSTEM SPECIFICATION

A. THE GREASE EXHAUST SYSTEM SHALL BE CONSTRUCTED OF PRE-MANUFACTURED UL-2221 LISTED DOUBLE WALL GREASE DUCT. THE SYSTEM SHALL BE SO CONSTRUCTED THAT NO GREASE WILL BECOME POCKETED IN ANY PORTION THEREOF AND SHALL SLOPE AT NOT LESS THAN 1/4" PER FOOT IF HORIZONTAL LENGTH UNDER 75 FEET LONG OR 1" PER FOOT IF OVER 75 FEET, BACK TO THE HOOD OR AS REQUIRED BY THE LOCAL AUTHORITIES.

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

C. GREASE EXHAUST HOOD SHALL BE TOPPED WITH COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION SYSTEM. REFER TO MECHANICAL SPECIFICATIONS ON MS1.1 FOR ADDITIONAL INFORMATION.

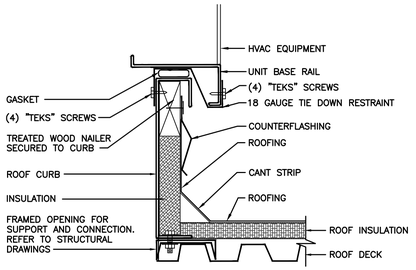
D. GREASE HOOD TO EXTEND A MINIMUM OF 6" BEYOND THE COOKING SURFACE ON ALL OPEN SIDES.

E. PROVIDE GREASE DUCT CLEAN-OUT ACCESS DOORS AT EVERY CHANGE OF DIRECTION IN THE DUCT AND/OR EVERY 10 FEET WITH MINIMUM OF 3 FEET OF CLEARANCE IN FRONT OF CLEAN-OUT. INSULATE ACCESS DOORS AS REQUIRED TO MAINTAIN RATING OF GREASE DUCT ENCLOSURE.

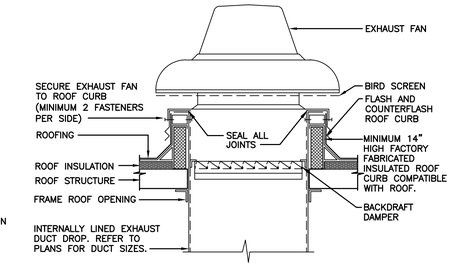
NOTES:

1. PROVIDE UL LISTED TYPE 1 EXHAUST HOOD.
2. GREASE HOOD SHALL MEET THE REQUIREMENTS OF MECHANICAL CODE, NSF AND NFPA FOR A TYPE I HOOD.
3. FIRE DEPARTMENT APPROVAL SHALL BE REQUIRED ON FIRE PROTECTION SYSTEM FOR GREASE HOODS AND DUCTS AS REQUIRED BY MECHANICAL AND FIRE CODES.
4. PROVIDE CHEMICAL FIRE SUPPRESSION SYSTEM AS REQUIRED BY NFPA 17A.
5. PERFORM SMOKE TEST ON GREASE EXHAUST DUCTWORK AFTER DUCTWORK INSTALLATION IS COMPLETE BUT PRIOR TO DUCTWORK CONCEALMENT PER REQUIREMENTS OF LOCAL CODE AUTHORITIES.

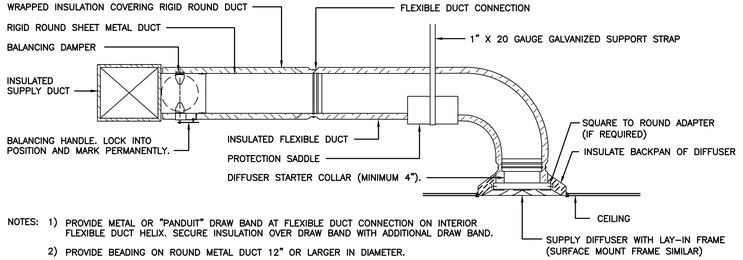
05 KITCHEN HOOD SCHEMATICS
NOT TO SCALE



03 ROOFTOP UNIT CURB DETAIL
NOT TO SCALE



02 EXHAUST FAN DETAIL
NOT TO SCALE



NOTES:
1) PROVIDE METAL OR "PANDUIT" DRAW BAND AT FLEXIBLE DUCT CONNECTION ON INTERIOR FLEXIBLE DUCT HELIX. SECURE INSULATION OVER DRAW BAND WITH ADDITIONAL DRAW BAND.
2) PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
3) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
4) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

04 DIFFUSER CONNECTION DETAIL
NOT TO SCALE

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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PM: DD M: JTM E: RR P: GR

Project

LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

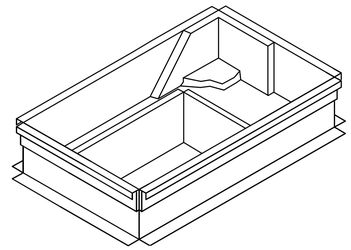
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
MECHANICAL DETAILS

Drawn	Checked
JTM	JS
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	M4.1

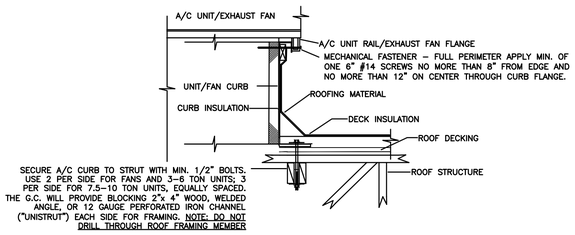
NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN JR.
8-11-23

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.

05 NCA PLENUMIZED AC CURB DETAIL
NOT TO SCALE

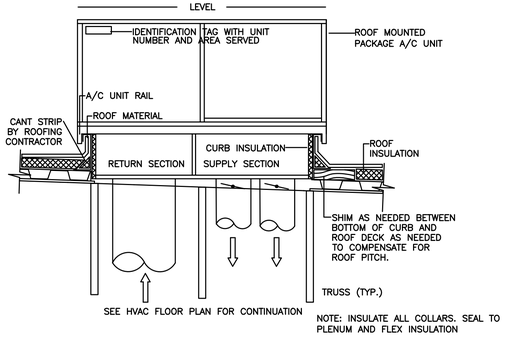


ACCEPTABLE FOR 140 MPH ZONE

VERIFY ON SITE WITH GENERAL CONTRACTOR

04 ROOF EQUIP. CURB MOUNTING DETAIL
NOT TO SCALE ACCEPTABLE FOR 140 MPH ZONE

NOTES:
1. BANDING MATERIAL, 3/4" WIDE, MINIMUM 0.015" THICK, CARBON STEEL FOR CONSTRUCTION REQUIREMENTS OF ZERO CLEARANCE TO COMBUSTIBLES OR 1 HR. RATINGS. STAINLESS STEEL BANDING IS USED FOR 2 HR. REQUIREMENTS.
2. 3M FIRE BARRIER DUCT WRAP 615+, 1–1/2" THICK, 24" OR 48" WIDE, 300' STANDARD LENGTH (2 LAYERS) 6 LBS PER CUBIC FT TO BE UTILIZED.
3. HOLD INTERIOR WRAP OF INSULATION USING 1" WIDE FILAMENT TAPE (NO. 898) MANUFACTURED BY 3M COMPANY.
4. SEAL CUT EDGES OF BLANKET WITH ALUMINUM FOIL TAPE.

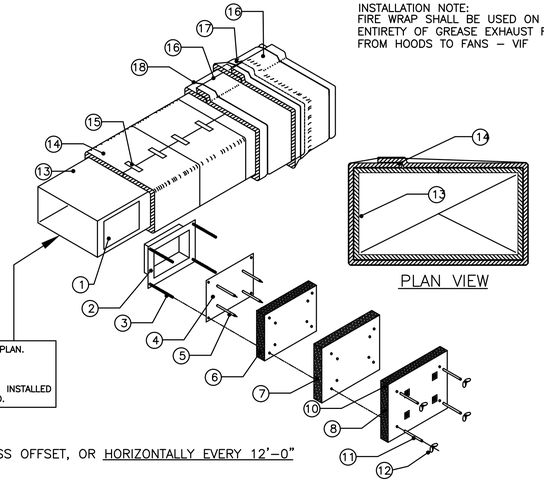


NOTE: INSULATE ALL COLLARS. SEAL TO PLENUM AND FLEX INSULATION

01 DUCT RISER/LEVELING DETAIL
NOT TO SCALE

LEGEND	
1	DOOR HOLE
2	ACCESS FRAME WELDED TO DUCT
3	1/4" DIA. ALL THREAD RODS
4	ACCESS COVER; 16 GA.
5	INSULATION PINS; WELDED
6	1 3M FIRE BARRIER 615 PLUS
7	1 3M FIRE BARRIER 615 PLUS 1" OVERLAP
8	1 3M FIRE BARRIER 615 PLUS 1" OVERLAP
9	SPEED CLIPS
10	ALUMINUM TAPE EDGES
11	SPOOL PIECES FOR THREADED RODS
12	1/4" DIA. WING NUTS
13	16 GA. SHEET METAL DUCT (FULLY WELDED WATER TIGHT)
14	1ST LAYER 3M FIRE BARRIER DUCT WRAP 615 PLUS LONGITUDINAL JOINT BUTT OR MIN. 3" OVERLAP ON INNER LAYER, MIN. 3" OVERLAP ON OUTER LAYER
15	3/4" (19mm) WIDE FILAMENT TAPE
16	2ND LAYER 3M FIRE BARRIER DUCT WRAP 615 PLUS OR APPROVED EQUIVALENT
17	3" MINIMUM PERIMETER OVERLAP – TYP.
18	STEEL BANDING 1/2" WIDE MIN. TYP. FOR PERMANENT FASTENING

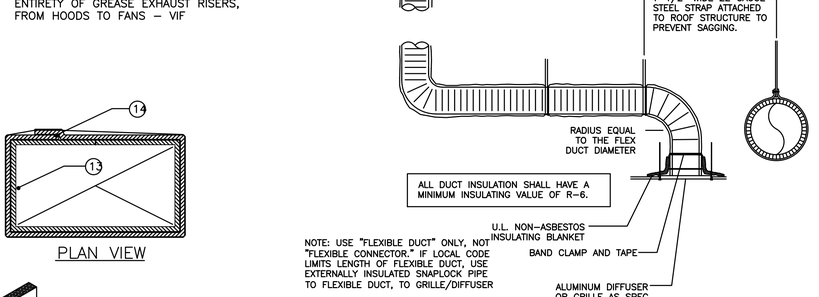
INSTALLATION NOTE:
FIRE WRAP SHALL BE USED ON ENTIRETY OF GREASE EXHAUST RISERS, FROM HOODS TO FANS – VIF



FULLY WELDED GREASE RATED EXHAUST DUCT. SEE SIZE ON PLAN.
RISER SHALL BE LIGHT INSPECTED LAYING ON FLOOR.
FULLY PREPARE FOR SCHEDULED INSPECTION.
HVAC CONTRACTOR SHALL VERIFY TEST PRIOR TO SCHEDULE.
THE USE OF U.L. LISTED PREFABBED DUCT BY CAPTIVE AIRE INSTALLED CORRECTLY MAY BE EXEMPT FROM LIGHT INSPECTION IF USED.

NOTE: ACCESS DOOR NOT REQUIRED UNLESS OFFSET, OR HORIZONTALLY EVERY 12'–0"

02 1 HR. FIRE WRAP ('0" CLEARANCE) TO COMBUSTIBLES - INSTALLATION DETAIL
NOT TO SCALE



NOTE: USE "FLEXIBLE DUCT" ONLY, NOT "FLEXIBLE CONNECTOR." IF LOCAL CODE LIMITS LENGTH OF FLEXIBLE DUCT, USE EXTERNALLY INSULATED SNAPLOCK PIPE TO FLEXIBLE DUCT, TO GRILLE/DIFFUSER

DUCT SCHEDULE	
SIZE	GAUGE
6"ø – 8"ø	28
10"ø – 12"ø	26
14"ø – 16"ø	24
18"ø – 20"ø	22

DUCT SUPPORT
SUPPORT DUCTWORK WITH 1–1/2" WIDE 22 GAUGE STEEL STRAPS FIRMLY ATTACHED TO THE BUILDING STRUCTURE. SPACING SHALL BE MAXIMUM 10–0" FOR RIGID DUCTWORK, AND MINIMUM 4'–0" FOR FLEXIBLE DUCTWORK. 12 GAUGE WIRE MAY BE SUBSTITUTED FOR STRAPS IF 1–1/2" WIDE 22 GAUGE STEEL SADDLES ARE USED TO FULLY ENCIRCLE DUCT. REFER TO THE HVAC DUCT CONSTRUCTION STANDARDS PUBLISHED BY SMACNA FOR ADDITIONAL DETAILS. FULLY COMPLY WITH MECHANICAL CODES.

03 RIGID/FLEXDUCT CONNECTION/INSTALL DETAIL
NOT TO SCALE

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

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Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
MECHANICAL DETAILS

Drawn	Checked
DD	DD
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	M4.2

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN JR.
8-11-23

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

HVAC SEQUENCE OF OPERATIONS

PROVIDE ALL NECESSARY SENSORS, DAMPER ACTUATORS, CONTROL TRANSFORMERS WITH SECONDARY OVERLOAD PROTECTION, WIRING AND CONDUIT TO ACCOMPLISH FOLLOWING SEQUENCE OF OPERATION:

ROOFTOP UNIT:

THERMOSTATS SHALL BE SET TO DETERMINE OCCUPIED AND UNOCCUPIED HOURS OF OPERATION. HOURS SHALL BE COORDINATED WITH OWNER. ROOFTOP UNITS SHALL BE INTERLOCKED WITH KITCHEN EXHAUST FANS TO PROVIDE MAKE-UP AIR FOR HOODS.

OCCUPIED MODE:

SUPPLY FAN SHALL RUN CONTINUOUSLY AND OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM POSITION TO DELIVER SCHEDULED QUANTITY OF VENTILATION AIR.

SUPPLY FAN SPEED SHALL VARY AIRFLOW AS A FUNCTION OF LOAD. DURING NON-COOLING, FIRST STAGE COOLING, AND NON-HEATING TIMES, SUPPLY FAN SHALL RUN AT MINIMUM SPEED. DURING SECOND STAGE COOLING AND HEATING TIMES, SUPPLY FAN SHALL RUN AT FULL SPEED. OUTSIDE AIR DAMPER SHALL MODULATE POSITION TO MAINTAIN REQUIRED QUANTITY OF OUTSIDE AIR AS SUPPLY FAN VARIES SPEED.

COOLING:
WHEN SPACE TEMPERATURE RISES ABOVE OCCUPIED COOLING SET POINT, PACKAGED DIRECT EXPANSION COOLING SHALL BE ENERGIZED AND STAGE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.

ECONOMIZER:
WHEN OUTDOOR AIR TEMPERATURE IS BELOW 65°F (ADJUSTABLE), ECONOMIZER SHALL MODULATE BETWEEN ITS MINIMUM SET POINT AND FULL OPEN TO MAINTAIN SPACE COOLING SET POINT, SUBJECT TO A MIXED AIR TEMPERATURE LOW LIMIT CONTROLLER SET POINT OF 55°F. IF OUTDOOR TEMPERATURE IS ABOVE COMPRESSOR LOCKOUT THERMOSTAT SETTING, MECHANICAL COOLING SHALL BE ENABLED AS SECOND STAGE OF COOLING.

DEHUMIDIFICATION (WHERE APPLICABLE):
WHEN SPACE HUMIDITY READING EXCEEDS 55%RH (ADJUSTABLE), REFRIGERATION SYSTEM SHALL OPERATE AND INITIATE HOT GAS REHEAT AS REQUIRED TO MAINTAIN SPACE HUMIDITY.

HEATING:
WHEN SPACE TEMPERATURE FALLS BELOW OCCUPIED HEATING SET POINT, GAS HEATER SHALL BE ENERGIZED IN STAGES (WHERE APPLICABLE) TO MAINTAIN SPACE TEMPERATURE.

UNOCCUPIED MODE:

COOLING:
UPON SIGNAL FROM THERMOSTAT, SUPPLY FAN SHALL BE DEENERGIZED AND OUTSIDE AIR DAMPER SHALL CLOSE. IF SPACE TEMPERATURE RISES 2 DEGREES OR MORE ABOVE UNOCCUPIED SET POINT, OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, SUPPLY FAN SHALL BE ACTIVATED AND DX COOLING SHALL BE STAGED AS REQUIRED TO MAINTAIN UNOCCUPIED SPACE TEMPERATURE. WHEN TEMPERATURE FALLS 2 DEGREES BELOW SET POINT, COMPRESSOR SHALL BE DE-ENERGIZED AND SUPPLY FAN SHALL SHUT OFF.

HEATING:
UPON A SIGNAL FROM THERMOSTAT, SUPPLY FAN SHALL BE DE-ENERGIZED AND OUTSIDE AIR DAMPER SHALL CLOSE. IF SPACE TEMPERATURE FALLS 2 DEGREES OR MORE BELOW SET POINT, OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, SUPPLY FAN SHALL BE ACTIVATED AND GAS HEAT SHALL BE ENERGIZED UNTIL UNOCCUPIED SPACE TEMPERATURE IS SATISFIED. WHEN TEMPERATURE RISES 2 DEGREES ABOVE SET POINT, GAS HEAT SHALL BE DISABLED AND SUPPLY FAN SHALL BE DE-ENERGIZED.

MORNING WARM-UP/COOL DOWN:
CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING DAILY START TIME OF UNIT IN ORDER TO BRING EACH SPACE TO DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.

OCCUPIED COOLING SET POINT	75 DEGREES
OCCUPIED HEATING SET POINT:	70 DEGREES
UNOCCUPIED COOLING SET POINT:	85 DEGREES
UNOCCUPIED HEATING SET POINT:	55 DEGREES

A SMOKE DETECTOR SHALL DE-ENERGIZE ROOFTOP UNIT SUPPLY FAN AND CLOSE OUTSIDE AIR DAMPER IN BOTH OCCUPIED AND UNOCCUPIED MODES WHENEVER SMOKE IS SENSED BY SMOKE DETECTORS.

MECHANICAL SPECIFICATIONS

PROVIDE EQUIPMENT INDICATED ON DRAWINGS, AND AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM.

DEFINITIONS: FURNISH MEANS TO SUPPLY AND DELIVER TO PROJECT SITE, READY FOR INSTALLATION. INSTALL MEANS TO PLACE IN POSITION AND MAKE CONNECTIONS FOR SERVICE OR USE. PROVIDE MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF COMPLETED PROJECT. PROVIDE SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT OWNER'S OPTION.

COORDINATION: COORDINATE WITH WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF OWNER, AND WITH CONSTRAINTS OF EXISTING CONDITIONS OF PROJECT SITE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

SHEET METAL DUCTWORK: PROVIDE SHEET METAL DUCTWORK FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS, SEAL CLASS "A". SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, WITH G90 ZINC COATING. SHEET STEEL SHALL COMPLY WITH ASTM A653 STANDARD SPECIFICATION FOR STEEL SHEET METAL, ZINC COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY HOT DIP PROCESS, AND A924 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR SHEET, METALLIC-COATED BY HOT DIP PROCESS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL 90° ELBOWS.

REFRIGERANT PIPING: TYPE ACR HARD DRAWN COPPER TUBING MEETING THE REQUIREMENTS OF ASTM B280, WITH WROUGHT COPPER FITTINGS MEETING REQUIREMENTS OF ANSI B16.22, WITH BRAZED JOINTS MEETING REQUIREMENTS OF AWS A 5.8, USING BAC-1 (SILVER) FILLER MATERIAL. INSULATE SUCTION LINE PIPING WITH 1" THICK ARMAFLEX TYPE AP. PAINT INSULATION LOCATED OUTDOORS WITH ARMAFLEX WB FINISH.

ROUND SHEET METAL DUCT: PROVIDE SPIRAL SEAM (ALL SIZES) OR SNAP LOCK (CONCEALED DUCT SIZES UP TO 10") GALVANIZED STEEL COMPLYING WITH SMACNA STANDARDS. SPIRAL SEAM DUCTWORK SHALL HAVE SMACNA SEAM TYPE RL-1.

FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEXIBLE DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR MINIMUM 2" W.G. PRESSURE AND 0 TO 250°F TEMPERATURE. PROVIDE SCREW-OPERATED METAL ADJUSTABLE CLAMPING DEVICES. USE TWIST-LOCK TAP COLLARS AT CONNECTIONS INTO SHEET METAL DUCTWORK. MAXIMUM EXTENDED LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 6 FEET.

DUCT SEALANT: PROVIDE WATER BASED SYNTHETIC LATEX EMULSION PERMANENTLY FLEXIBLE HIGH VELOCITY DUCT SEALANT, DUCTMATE INDUSTRIES INC., PRO SEAL OR EQUAL. SEALANT TO BE LOW VOC LEED COMPLIANT CAPABLE OF 15" W.G., NFPA 90A AND 90B APPROVED, UL 181B-M LISTED AND UL 723 CLASSIFIED. INSTALL PER MANUFACTURER INSTRUCTIONS. SEALANT SHALL BE APPROVED FOR PLENUM INSTALLATIONS AND MEET FLAME SPREAD AND SMOKE DEVELOPED RATINGS FOR PLENUM APPLICATIONS.

DUCT INSULATION (ALL ROUND SUPPLY DUCT AND ROUND RETURN DUCT ABOVE CEILING): PROVIDE MINIMUM 1-1/2" THICK BLANKET TYPE FIBERGLASS INSULATION COMPLYING WITH ASTM C-553, TYPE II, WITH FACTORY APPLIED KRAFT BONDED TO ALUMINUM FOIL, REINFORCED WITH FIBERGLASS VAPOR BARRIER/JACKET. JACKET SHALL CONFORM TO ASTM C-1136, TYPE II. INSTALLED R VALUE SHALL BE 4.2 OR HIGHER WITH 0.75 PCF DENSITY.

DUCT LINER (ALL RECTANGULAR SUPPLY AND RETURN DUCT): PROVIDE MINIMUM 1" THICK, 2 PCF DENSITY, LONG TEXTILE FIBER TYPE DUCT LINER, WITH COATING ON AIR STREAM SIDE CONFORMING TO NFPA 90A. DUCT LINER SHALL BE SECURED TO DUCT WITH BOTH ADHESIVE AND MECHANICAL FASTENERS. ADHESIVE SHALL BE LEED COMPLIANT LOW VOC AS RECOMMENDED BY DUCT LINER MANUFACTURER, AND SHALL COMPLY WITH ASTM C-916. DUCT LINER FASTENERS SHALL COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", LATEST EDITION. THERMAL CONDUCTIVITY SHALL BE EQUAL TO OR LESS THAN 0.24 AT 75°F.

ROUND VOLUME DAMPERS: PROVIDE MINIMUM 20 GAUGE GALVANIZED STEEL FRAME AND BLADES, MINIMUM 3/8" SQUARE STEEL AXLE, MOLDED SYNTHETIC BEARINGS, WITH LOCKING POSITION REGULATOR. REGULATOR SHALL BE POSITIONED WITH SHEET METAL BRACKET BEYOND DUCT COVERING. WHERE POSITIONING REGULATOR IS NOT ACCESSIBLE, PROVIDE COUPLING AND EXTENSION ROD WITH REGULATOR FOR CEILING OR WALL INSTALLATION, AS REQUIRED.

RECTANGULAR VOLUME DAMPERS: PROVIDE MINIMUM 16 GAUGE GALVANIZED STEEL CHANNEL FRAME, 16 GAUGE GALVANIZED STEEL BLADES, MINIMUM 1/2" HEXAGONAL AXLE, MOLDED SYNTHETIC BEARINGS, WITH 3/8" SQUARE PLATED STEEL CONTROL SHAFT. LINKAGES SHALL BE CONCEALED IN FRAME. OPERATING SHAFT SHALL EXTEND BEYOND FRAME AND DUCT TO A LOCKING QUADRANT WITH ADJUSTABLE LEVER. MAXIMUM BLADE WIDTH SHALL NOT EXCEED 6".

DUCT TURNING VANES: PROVIDE FABRICATED TURNING VANES AND VANE RUNNERS CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". PROVIDE TURNING VANES CONSTRUCTED OF CURVED BLADES, SUPPORTED WITH BARS PERPENDICULAR TO BLADES, AND SET INTO SIDE STRIPS SUITABLE FOR MOUNTING IN DUCTWORK. FOLLOW SMACNA GUIDELINES FOR SPACING SUPPORT, AND CONSTRUCTION. ALL BLADES SHALL BE DOUBLE THICKNESS AIRFOIL TYPE.

FLEXIBLE DUCT CONNECTORS: PROVIDE UL LABELED 30 OUNCE NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS AT DUCT CONNECTIONS TO VIBRATING EQUIPMENT.

DUCT ACCESS DOORS: PROVIDE HINGED ACCESS DOORS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS FOR INSULATED DUCTWORK. CONSTRUCT OF SAME OR THICKER GAUGE SHEET METAL AS DUCT IN WHICH IT IS INSTALLED. PROVIDE FLUSH FRAMES FOR UNINSULATED DUCTS, AND EXTENDED FRAMES FOR EXTERNALLY INSULATED DUCTS. PROVIDE CONTINUOUS HINGE ON ONE SIDE, WITH ONE HANDLE-TYPE LATCH FOR ACCESS DOORS 12" HIGH AND SMALLER, AND TWO HANDLE-TYPE LATCHES FOR LARGER ACCESS DOORS.

DUCT ACCESS DOORS: PROVIDE HINGED ACCESS DOORS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS FOR INSULATED DUCTWORK. CONSTRUCT OF SAME OR THICKER GAUGE SHEET METAL AS DUCT IN WHICH IT IS INSTALLED. PROVIDE FLUSH FRAMES FOR UNINSULATED DUCTS, AND EXTENDED FRAMES FOR EXTERNALLY INSULATED DUCTS. PROVIDE CONTINUOUS HINGE ON ONE SIDE, WITH ONE HANDLE-TYPE LATCH FOR ACCESS DOORS 12" HIGH AND SMALLER, AND TWO HANDLE-TYPE LATCHES FOR LARGER ACCESS DOORS.

MECHANICAL PIPING IDENTIFICATION: PROVIDE PIPE MARKERS, FLOW ARROWS AND ENGRAVED PLASTIC-LAMINATE SIGNS FOR MECHANICAL PIPING AND VALVES TO COMPLY WITH ANSI A13.1. PROVIDE ONLY ONE TYPE OF PIPE MARKERS AND FLOW ARROWS FOR ALL SYSTEMS.

GREASE EXHAUST DUCTWORK: FACTORY FABRICATED DOUBLE WALL DUCTWORK COMPLIANT WITH UL 2221 AND UL 1978. SEE HOOD SYSTEM DRAWINGS FOR MORE INFORMATION.

COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION ASSEMBLY: PROVIDE FLEXIBLE BLANKET-TYPE INSULATION COMPOSED OF FIBER BLANKET ENCAPSULATED IN AN ALUMINUM FOIL SCRIM, PROVIDING A NONCOMBUSTIBLE WRAP TO PROVIDE A VAPOR AND DUST BARRIER. DUCT WRAP SYSTEM SHALL HAVE FLAME SPREAD INDEX OF NOT MORE THAN 5 AND SMOKE DEVELOPED INDEX NOT EXCEEDING 5, WHEN TESTED PER ASTM E-84 METHOD. INSULATION AND JACKET SHALL BE RATED FOR OPERATING TEMPERATURES UP TO 2000°F. DUCT WRAP SYSTEM MUST COMPLY WITH ALL FIVE FIRE TESTS OF STANDARD ASTM E2336, GREASE DUCT ENCLOSURE SYSTEM, AND THE DUCT FIRESTOP SYSTEM SHALL BE ASTM E 814 CLASSIFIED. PROVIDE COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION FROM ONE OF THE FOLLOWING: THERMAL CERAMICS FIREMASTER FASTWRAP XL, UNIFRAX FYREWRAP 2.0 MAX.

MECHANICAL EQUIPMENT IDENTIFICATION: PROVIDE ENGRAVED PLASTIC LAMINATE LABEL FOR EACH MAJOR ITEM OF MECHANICAL EQUIPMENT AND EACH OPERATIONAL DEVICE. LETTERS SHALL BE MINIMUM OF 1/2" HIGH. PROVIDE SIGNS TO INFORM OPERATOR OF OPERATIONAL REQUIREMENTS, TO INDICATE SAFETY AND EMERGENCY PRECAUTIONS, AND TO WARN OF HAZARDS AND IMPROPER OPERATION.

TESTING AND BALANCING: TEST AND ADJUST ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH THE MOST CURRENT NEBB OR AABC, AND ASHRAE STANDARDS. ELIMINATE OBJECTIONABLE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF CONTROLS. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, WITH NEBB OR AABC CERTIFICATION. SUBMIT COMPLETED AND CERTIFIED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCE ALL SYSTEMS TO WITHIN 5% OF AIR FLOWS INDICATED ON THE DRAWINGS, AND REPORT DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER.

OPERATIONS AND MAINTENANCE MANUALS (O&M): AT COMPLETION OF PROJECT PROVIDE A MINIMUM OF TWO O&M MANUALS IN THREE RING BINDERS TO OWNER/TENANT. MANUALS SHALL HAVE TABS LABELED WITH ALL SECTIONS SEPARATED WITH A CLEAR INDEX AT FRONT. PROVIDE WARRANTY LETTER AT FRONT OF MANUAL STATING DATES OF WARRANTY (START DATE AND END DATE) AND CONTACTS WITH PHONE NUMBERS FOR WARRANTY WORK. PROVIDE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE INCLUDING RECOMMENDED SETPOINTS. MANUALS SHALL INCLUDE SUBMITTALS OF ALL EQUIPMENT, SIZE AND OPTIONS SELECTED. PROVIDE ALL BALANCING REPORTS. PROVIDE MANUFACTURER LITERATURE FOR OPERATIONS AND MAINTENANCE FOR ALL EQUIPMENT ON PROJECT. ALL PERIODIC AND ROUTINE MAINTENANCE SHALL BE CLEARLY IDENTIFIED. PROVIDE CONTROLS SECTION LISTING SYSTEM OPERATING AND CONTROL INSTRUCTIONS, MAINTENANCE, CALIBRATION, WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS.

SHOP DRAWINGS/SUBMITTALS: SUBMIT ELECTRONIC SUBMITTALS AND SHOP DRAWINGS VIA EMAIL AS PDF ELECTRONIC FILES. PROVIDE SEPARATE PDF SUBMITTALS ON ALL MECHANICAL EQUIPMENT (INCLUDING CONTROLS PACKAGES), AIR DISTRIBUTION DEVICES, DUCTWORK, DAMPERS, AND INSULATION. SUBMITTALS AND SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:
- PROJECT NAME
- DATE
- NAME AND ADDRESS OF ARCHITECT AND MEP ENGINEER
- NAME OF CONSTRUCTION MANAGER
- NAME OF CONTRACTOR
- NAME OF FIRM OR ENTITY THAT PREPARED SUBMITTAL
- NAMES OF SUBCONTRACTOR, MANUFACTURER, AND SUPPLIER.
- CATEGORY AND TYPE OF SUBMITTAL
- SUBMITTAL PURPOSE AND DESCRIPTION
- MANUFACTURER NAME
- PRODUCT NAME
- DRAWING NUMBER AND DETAIL REFERENCES, AS APPROPRIATE
- INDICATION OF FULL OR PARTIAL SUBMITTAL
- TRANSMITTAL NUMBER
- REMARKS

IDENTIFY DEVIATIONS FROM THE CONTRACT DOCUMENTS ON SHOP DRAWINGS AND SUBMITTALS. FURNISH COPIES OF FINAL SUBMITTALS TO MANUFACTURERS, SUBCONTRACTORS, SUPPLIERS, FABRICATORS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHERS AS NECESSARY FOR PERFORMANCE OF CONSTRUCTION ACTIVITIES. SHOW DISTRIBUTION ON TRANSMITTAL FORMS.

SUBMITTALS SHALL INCLUDE (AS APPLICABLE):
- MANUFACTURER'S CATALOG CUTS
- MANUFACTURER'S PRODUCT SPECIFICATIONS
- STATEMENT OF COMPLIANCE WITH SPECIFIED REFERENCED STANDARDS
- TESTING BY RECOGNIZED TESTING AGENCY
- APPLICATION OF TESTING AGENCY LABELS AND SEALS
- WIRING DIAGRAMS SHOWING FACTORY-INSTALLED WIRING
- PERFORMANCE CURVES
- OPERATIONAL RANGE DIAGRAMS
- CLEARANCES REQUIRED TO OTHER CONSTRUCTION, IF NOT INDICATED ON SHOP DRAWINGS.

FULL SIZE SHOP DRAWINGS SHALL INCLUDE (AS APPLICABLE):
- IDENTIFICATION OF PRODUCTS
- SCHEDULES
- COMPLIANCE WITH SPECIFIED STANDARDS
- NOTATION OF COORDINATION REQUIREMENTS
- NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT
- RELATIONSHIP AND ATTACHMENT TO ADJOINING CONSTRUCTION CLEARLY INDICATED.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING DUCT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND INSTALLATION.

MECHANICAL SYMBOLS LEGEND

ABBREVIATIONS:

AHJ	AUTHORITY HAVING JURISDICTION
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
GC	GENERAL CONTRACTOR
HZ	FREQUENCY
LAT	LEAVING AIR TEMPERATURE
MC	MECHANICAL CONTRACTOR
NC	NOISE CRITERIA
RTU	ROOFTOP UNIT
WB	WET BULB

GRILLES/DIFFUSERS:

- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE

DOUBLE LINE DUCT SYMBOLS:

- NEW SHEET METAL DUCTWORK & SIZE
- SUPPLY OR OUTSIDE AIR DUCT
- RETURN AIR DUCT
- EXHAUST AIR DUCT
- DUCTWORK TRANSITION
- DUCTWORK TRANSITION – RECTANGULAR TO ROUND
- SUPPLY DUCT ELBOW UP OR DOWN
- RETURN DUCT ELBOW UP OR DOWN
- EXHAUST DUCT ELBOW UP OR DOWN
- DUCT ELBOW WITH FIXED TURNING VANES
- DUCT BRANCH TAKE-OFF
- ROUND SPIN-IN WITH DAMPER
- VOLUME DAMPER (10)
- FLEXIBLE DUCTWORK

GENERAL REFERENCES/NOTATIONS:

- SQUARE NOTE DESIGNATION
- REVISION DESIGNATION
- MECHANICAL EQUIPMENT DESIGNATION (TYPE X)
- DIFFUSER DESIGNATION AND CFM (? / CFM)

EQUIPMENT:

- ROOF MOUNTED EXHAUST FAN
- ROOFTOP UNIT
- THERMOSTAT – ELECTRIC (T)
- TEMPERATURE SENSOR (TS)
- TEMPERATURE/HUMIDITY SENSOR (T/H)
- DUCT SMOKE DETECTOR (F/S)

SYMBOLS LEGEND NOTES:
1. REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17231 GEORGE W. AUSTIN JR.
8-11-23

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED BY POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".

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Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
MECHANICAL SPECIFICATIONS

Drawn	Checked
JTM	JS
Scale	**Date**
	8/11/23
Project No.	**Drawing No.**
G23-29	MS1.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS. STORE NO. 14185

GENERAL NOTES

A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISES, DROPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

C. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

E. PROVIDE WATER HAMMER ARRESTORS THROUGHOUT WATER SYSTEMS AS REQUIRED PER "WATER HAMMER ARRESTERS" DETAIL.

F. PROVIDE BACKFLOW PREVENTION DEVICES IN WATER LINES FEEDING PLUMBING FIXTURES AND/OR EQUIPMENT AS SHOWN ON PLANS AND ELSEWHERE AS REQUIRED BY AUTHORITY HAVING JURISDICTION. USE DEVICES OF APPROVED MANUFACTURER AND TYPE IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

G. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE AT BUILDING ENTRY PRIOR TO ALL LOCALLY REQUIRED DEVICES IS LESS THAN 60 PSIG STATIC, CONTACT OWNER'S REPRESENTATIVE. IF PRESSURE EXCEEDS 80 PSIG, PROVIDE PRESSURE REDUCING VALVE.

H. SUSPEND HORIZONTAL SERVICE PIPING FROM UNDERSIDE OF ROOF OR FLOOR STRUCTURE UNLESS OTHERWISE INDICATED. INSTALL PIPING AS HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS AND CHASES TO SERVE FIXTURES AND EQUIPMENT.

I. VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITY COMPANIES AND/OR CIVIL ENGINEER, AS APPLICABLE.

J. WATER ENTRY SERVICE PIPING, NEW AND/OR REVISED. CONTRACTOR SHALL ENSURE AND PROVIDE MINIMUM 10'-0" LINEAR FEET OF METAL PIPING MATERIAL BELOW GRADE IN CONTACT WITH EARTH FOR CONNECTION OF ELECTRICAL SERVICE GROUNDING.

K. PLUMBING CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEDES WITH A MINIMUM OF INTERFERENCE

L. FLOOR DRAINS SHALL HAVE 6" DEEP SEAL TRAPS.

M. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING WATER SUPPLY TO THE COFFEE MAKERS, TEA BREWERS, AND ICE MACHINES.

N. WRAP ALL CONDENSATE PIPE IN FREEZER WITH HEAT TRACING TAPE AND INSULATE ALL CONDENSATE DRAIN PIPING. ROUTE COOLER CONDENSATE DRAIN PIPING TO HUB DRAIN/FLOOR DRAIN AS INDICATED.

O. POT SINKS SHALL BE ANCHORED TO WALL AND SEALED WITH SILICONE CAULKING.

P. INSTALL GAS VALVE (FBC) IN GAS LINE TO COOKING EQUIPMENT. INTERLOCK WITH HOOD FIRE PROTECTION SYSTEM. VERIFY REQUIREMENTS WITH HOOD SUPPLIER. INSTALL UNIONS AT THE SOLENOID VALVE.

Q. PROVIDE SHUTOFF COCKS, QUICK DISCONNECTS AND FLEXIBLE LINES AT GAS EQUIPMENT.

R. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS.

S. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.

T. LAVATORY FAUCETS SHALL LIMIT HOT WATER FLOW TO 0.5 GPM AND HOT WATER TEMPERATURE TO 110° F

U. PROVIDE 1"Ø SCH 40 BLACK STEEL PIPE FOR GREASE DISCHARGE. RUN LINE FLUSH ON WALL BESIDE FRYERS, VERTICALLY UP IN WALL THROUGH CEILING. SLOPE LINE @ 1"/FT TOWARDS REAR OF BUILDING. RUN LINE DOWN THROUGH CEILING ON FACE OF EXTERIOR WALL TO 75" AFF THEN THROUGH REAR WALL FOR DISCHARGE. HEAT TAPE SHALL BE INSTALLED ON ENTIRE LINE @ 5 WATTS/LINEAR FT. G.C. TO PROVIDE STAINLESS STEEL COVERS FOR LINE MOUNTED FLUSH ON WALLS (ENTIRE LENGTH – CEILING DOWN).

PLUMBING SYMBOLS LEGEND

ABBREVIATIONS:

AFF/AFG	ABOVE FINISHED FLOOR/GRADE
FFCO/FGCO/WCO/CO	FLUSH FLOOR/FLUSH GRADE/WALL/CLEANOUT
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
TYP	TYPICAL
VTR	VENT THRU ROOF
(E)	EXISTING

LINETYPES:

- EXISTING PLUMBING LINE – SEE DRAWING
- COLD WATER (CW)
- COLD WATER (CW) – BELOW SLAB/GRADE
- FW — FILTERED WATER SUPPLY (FW)
- HOT WATER (HW) 140°
- HOT WATER RETURN (HWR)
- G — NATURAL GAS LINE
- D — CONDENSATE LINE (D)
- PLUMBING VENT (V)
- PLUMBING VENT (V) – BELOW SLAB/GRADE
- SANITARY WASTE (SAN) – BELOW SLAB/GRADE
- GW — GREASE WASTE (GW) – BELOW SLAB/GRADE
- WATER HEATER VENT
- SODA CHASE
- USED COOKING OIL
- ST — STORM LINE (ST)
- OST — OVERFLOW STORM LINE (OST)

GENERAL REFERENCES/NOTATIONS:

01/P1 DETAIL OR SECTION	# REVISION
CONNECT TO EXISTING	# PLAN NOTE
# HVAC EQUIPMENT	#### FOOD SERVICE EQUIPMENT

PIPE SYMBOLS:

PIPE UP/DOWN	BALL/PLUG VALVE
TEE UP/DOWN	BALANCING/CHECK VALVE
END CAP	

SYMBOLS LEGEND NOTES:
REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUF.	MODEL	DESCRIPTION	ACCESSORIES/OPTIONS
WC	WATER CLOSET (ACCESSIBLE)	AMERICAN STANDARD	3043.001 "MADERA"	FLOOR MOUNT, WHITE VITREOUS CHINA, 1.1–1.6 GPF ELONGATED SIPHON JET BOWL, 1–1/2" TOP SPUD, & RIM HEIGHT 17" A.F.F. PROVIDE WITH SLOAN MANUAL DUAL FLUSH 1.6/1.1 GPF WATER CLOSET FLUSH VALVE. PROVIDE FLUSH LEVER ON ACCESSIBLE SIDE. INSTALL IN ACCORDANCE TO ADA ACCESSIBILITY REQUIREMENTS.	MAINLINE #ML1055SSC00 WHITE OPEN FRONT ELONGATED TOILET SEAT LESS COVER.
LAV	LAVATORY (ACCESSIBLE)	AMERICAN STANDARD	#0356.921.020 LUCERNE	WALL HUNG, 20"X18" WHITE VITREOUS CHINA, BACK OVERFLOW. PROVIDE WITH SLOAN EBF–650 4" CENTER SET, BATTERY POWERED SENSOR FAUCET WITH FACTORY SET 0.175 GPC 0.35 GPM AERATOR. INSTALL IN ACCORDANCE TO ADA ACCESSIBILITY REQUIREMENTS.	PROVIDE WITH QUARTER TURN BRASS ANGLE COMPRESSION STOPS WITH LOOSE KEY HANDLES, STAINLESS BRAIDED SUPPLIES, CHROME ESCUTCHEONS, CHROME GRID STRAINER DRAIN WITH TAILPIECE, & CHROME PLATED CAST BODY P–TRAP WITH CLEANOUT. INSULATE WASTE AND WATER PIPING WITH TRUEBRO "LAV–GUARD2" #101–EZ. FURNISH WITH ZURN #Z–1231–81 LAVATORY CARRIER.
FPWH	FROST PROOF WALL HYDRANT	WOODFORD	MODEL 65	ANTI–SIPHON, AUTOMATIC DRAINING, WALL HYDRANT, NON–FREEZE INTEGRAL VACUUM BREAKER, ALL BRONZE INTERIOR PARTS, KEY OPERATED, 3/4" SOLDER INLET.	MOUNT 18" ABOVE FINISHED GRADE. PROVIDE APPROPRIATE MODEL FOR WALL THICKNESS AND SITE SPECIFIC TEMPERATURE REQUIREMENTS.
TD	TRENCH DRAIN	ZURN	Z886–SOG	6–1/4"X24" HDPE TRENCH DRAIN WITH STAINLESS DECORATIVE GRATE. FIELD CUT TRENCH DRAIN AS REQUIRED. COORDINNATE FINISHED WIDTH AND LOCATION WITH ARCHITECT PRIOR TO ISNTALLATION.	SET TRENCH DRAIN LEVEL WITH FINISH FLOOR.
FD	FLOOR DRAIN	SIOUX CHIEF / ZURN	#832–35D–NR / #ZN415–8–3N H	FLOOR DRAIN WITH 5" ROUND NICKEL BRONZE ADJUSTABLE STRAINER & 3" BOTTOM OUTLET.	PROVIDE WITH TRAP PRIMER CONNECTION AND WITH ASSE 1072 APPROVED TRAP SEAL DEVICE. TRAP SEAL DEVICE SHALL BE TRAP PROSET TRAPGUARD OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE DRAINS IN CUSTOMER AREAS WITH VANDAL RESISTANT SCREWS.
FS	FLOOR SINK	SIOUX CHIEF / ZURN	#861–3PN–D / #Z1900–3NH–K –4	12" SQUARE TOP FLOOR SINK W/8" DEEP & 3" BOTTOM OUTLET	SET FLOOR SINK LEVEL WITH FINISH FLOOR.
RD	ROOF DRAIN	WATTS	RD–250	CAST IRON COMBINATION ROOF DRAIN/OVERFLOW WITH DECK FLANGE, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARD, OVERFLOW STANDPIPE, SELF LOCKING CAST IRON DOME, AND NO HUB OUTLETS. PROVIDE OUTLET SIZE AS SHOWN ON PLANS.	INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNDERDECK CLAMP AND SUMP RECEIVER . FIELD VERIFY ROOF INSTALLATION REQUIREMENTS AND COORDINATE INSULATION THICKNESS.
DSN	DOWNSPOUT NOZZLE	WATTS	Z199	ALL NICKEL BRONZE BODY WITH DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.	COORDINATE MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.
TP	TRAP PRIMER	PPP	P1–500	AUTOMATIC OPERATION, 1/2" INLET AND OUTLET. SERVICE UP TO FOUR FLOOR DRAINS WITH DISTRIBUTION UNIT.	INSTALL IN ACCESSIBLE LOCATION WITH PRIMER LOCATED MINIMUM OF 6" ABOVE FLOOD LEVEL OF FLOOR DRAIN RIM. PROVIDE ACCESS PANEL AS REQUIRED.
MV	MIXING VALVE	SYMMONS	7–225–CK "MAXLINE"	1/2" INLETS AND OUTLET, THERMOSTATIC CONTROLLER WITH INTEGRAL CHECKS, ALL BRASS BODY WITH DUAL STAINLESS STEEL STRAINER, VANDAL RESISTANT TEMPERATURE ADJUSTMENT HANDLE.	SET TO 105°F. MOUNT IN ACCESSIBLE LOCATION.

TANKLESS WATER HEATER SCHEDULE (GAS FIRED)

SYMBOL	MANUFACTURER	MODEL	BTU	GAS OPERATING PRESSURE	GPM @ 75°F RISE	SET POINT (°F)	NOTES (#)
WH–1,2,3	RINNAI	TRW03CUIN	597,000 (199,000 EACH)	7" W.C.	15 (5 EA.)	120	(1), (2), (3), (4), (5)

NOTES:
1. THREE INSTANTANEOUS WATER HEATERS (CU199i) WITH CONCENTRIC FLUE/AIR INTAKE SYSTEM (WALL–TYPE), DIRECT ELECTRONIC IGNITION SYSTEM, REMOTE ELECTRONIC CONTROLS AND INTEGRAL DIAGNOSTICS.
2. FURNISH WITH EXPANSION TANK AS SPECIFIED ON PLANS.
3. FURNISH WITH RINNAI 804000074 ACID NEUTRALIZATION KIT.
4. ELECTRICAL: 84W RUNNING, 1.3W STANDBY, 4A MAX WITH 10A BREAKER (EACH).
5. WATER HEATER REQUIRES A MINIMUM OF 35 PSI TO OPERATE, PER MANUFACTURER'S REQUIREMENTS.

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	CONNECTION LOCATION	CONNECTION SIZE	MOUNTING	NOTES (#)
ET	AMTROL	ST–5	2	.45	TOP	¾"	NEAR WH–1	(1), (2)

NOTES:
1. EXPANSION TANK: STEEL SHELL, HEAVY DUTY BUTYL NSF/ANSI 61, FACTORY PRECHARGED TO 40 PSIG. MAX OPERATING TEMPERATURE 100°, MAX OPERATING PRESSURE 150 PSI, 1 YEAR MANUFACTURER'S WARRANTY. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. FIELD CHARGE EXPANSION TANK TO SYSTEM PRESSURE BEFORE CONNECTION TO DOMESTIC WATER SYSTEM. FIELD VERIFY PRESSURE REQUIREMENTS.

PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	GPM	HEAD (FT)	VOLTAGE	PHASE	WATTS	AMPS	NOTES (#)
RCP	GRUNDFOS	ALPHA2	5	12	115	1	5 – 65	0.65	(1)

NOTES:
1. RECIRCULATING PUMP: BRONZE BODY RECIRCULATING PUMP WITH "AUTOADAPT" VARIABLE SPEED MOTOR. INSTALL NEAR WATER HEATER PER MANUFACTURER'S INSTRUCTIONS. PROVIDE WITH ALPHA 3–PRONG PLUG AND COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR. PROVIDE WITH HONEYWELL L6006C SURFACE MOUNT AQUASTAT SET TO 5°F BELOW WATER HEATER OPERATING TEMPERATURE.

HEAT TRACING

SYMBOL	MANUFACTURER	MODEL	TEMP	LENGTH (MAX)	VOLTAGE	PHASE	WATTS/FOOT	AMP (MAX)	NOTES (#)
HC	RAYCHEM	8XL2–CR/CT	105°F	350	208	1	8	15	(1), (2)

NOTES:
1. SELF–REGULATING HEATING CABLE TO MAINTAIN TEMPERATURE OF USED COOKING OIL LINE. REFER TO PLANS FOR ROUTING. MAXIMUM CIRCUIT LENGTH IS 350'–0" OF CABLE. 208–1V AT 8W/FT (2800 WATT / 15 AMP MAX).
2. PROVIDE WITH EC–W–GF CONTROLLER WITH GROUND FAULT PROTECTION, AND NECESSARY COMPONENTS TO PUT IN WORKING ORDER. INSTALL CABLE PER MANUFACTURER'S RECOMMENDATIONS.

GREASE INTERCEPTOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FLOW RATE (GPM)	GREASE CAPACITY (LBS.)	LIQUID CAPACITY (GAL.)	NOTES (#)
GI	–	–	–	1,500	–	(1), (2), (3)

NOTES:
1. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION. SEE MANUFACTURER INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS.
2. PROVIDE WITH H20 LOAD RATED PICKABLE CAST IRON LIDS WITH "SAFE MANWAY" FALL PROTECTION COVER.
3. PROVIDE WITH ANCHOR KIT.

FOODSERVICE PLUMBING SCHEDULE

ID	DESCRIPTION	REMARKS
A10.30	MULTIPLE FRYER SYSTEM, GAS	
A24.U2	MULTIPLE FRYER SYSTEM, GAS	
A35.00	1 COMPARTMENT SINK	
A35.10	PRE–RINSE FAUCET ASSEMBLY	
C10.32	POPEYES DUAL SIDE SANDWICH PREP	
D29.00	PACKING TABLE, DOUBLE SIDED	
D40.00	3 COMPARTMENT SINK	
D40.01	PRE–RINSE FAUCET ASSEMBLY	
D50.00	DISHWASHER	
D70.00	HOT WATER DISPENSER	
D81.00	RETHERMALIZER	
E10.00	WALK–IN COOLER/FREEZER	
E30.84	CHICKEN CRATE	
H10.00	DUAL LINE PRODUCTION COUNTER	
K10.00	ICE MAKER, CUBE–STYLE	
K11.00	ICE MAKER, CUBE–STYLE	
K15.00	ICE BIN	
K20.00	WATER FILTER SYSTEM	
K40.00	GREASE TANK	
K41.00	CO TANK	
K42.00	BAG N BOX	
K71.00	TEA BREWER	
N10.00	HAND SINK	
N20.00	MOP SINK	

THIS SCHEDULE IS A PARTIAL LISTING OF THE EQUIPMENT SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR (FSEC). REFER TO FSEC DRAWINGS FOR A COMPLETE LISTING OF EQUIPMENT, TYPES, SIZES, AND LOCATIONS. PLUMBING CONTRACTOR (PC) TO PROVIDE NECESSARY ITEMS TO INSTALL FSEC EQUIPMENT (INCLUDING VALVES, UNIONS, FITTINGS, ETC.) TO MAKE COMPLETE SYSTEM. THIS LISTING DOES NOT SUPERSEDE THE FSEC DRAWINGS.

BACKFLOW PREVENTER SCHEDULE

LOCATION	TAG	MODEL	ASSE
MAIN WATER SUPPLY	RPZ	WATTS 009QTS	1013
CARBONATOR	DCV–1	WATTS SD–3	1022
SODA DISPENSERS	DCV–2	WATTS SD–2	1032
OTHER EQUIPMENT	DCV–3	WATTS SERIES 7	1024

NOTE:
VERIFY BACKFLOW VALVE REQUIREMENTS AND APPROVAL FOR ALL EQUIPMENT WITH AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.

GREASE INTERCEPTOR SIZING

FIXTURE	QTY.	FLOW RATE (2 MIN)	TOTAL	FLOW RATE (1 MIN)	TOTAL
FLOOR DRAIN	4	0.00	0.00	0.00	0.00
FLOOR SINK	3	0.50	1.50	1.00	3.00
MOP BASIN	1	9.35	9.35	18.70	18.70
THREE COMP SINK	1	30.00	30.00	60.00	60.00

		CALCULATED FLOW RATE (GPM)
TOTAL FIXTURE FLOW RATE (2 MIN)	40.85	
TOTAL FIXTURE FLOW RATE (1 MIN)	79.70	42.00
PIPE SIZE FLOW RATE (4 IN)	75	42.00

[(CU IN / 231) = GAL X 0.75 / 2 MIN = 2 MIN FLOW RATE]

		GREASE PRODUCTION (LBS OF FOG)
NUMBER OF SEATS	22	
AVG. MEALS PER SEAT PER DAY	4	116.0
FAST FOOD – FULL PREP (HIGH / NO FLATWARE: 0.035 LBS PER SERVING)	0.035	
DAYS BETWEEN PUMP OUTS	90	

[SERVINGS PER DAY X GREASE PRODUCTION VALUE X DAYS BETWEEN PUMP–OUTS = GREASE OUTPUT]

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN, JR.
8-11-23

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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PM: DD M: JTM E: RR P: GR

Project
LOUISIANA 18 72 KITCHEN
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
PLUMBING SCHEDULES NOTES

Drawn	Checked
GR	GWA
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	P1.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC; 2124 PROTOTYPE DOCUMENTS STORE NO. 14185

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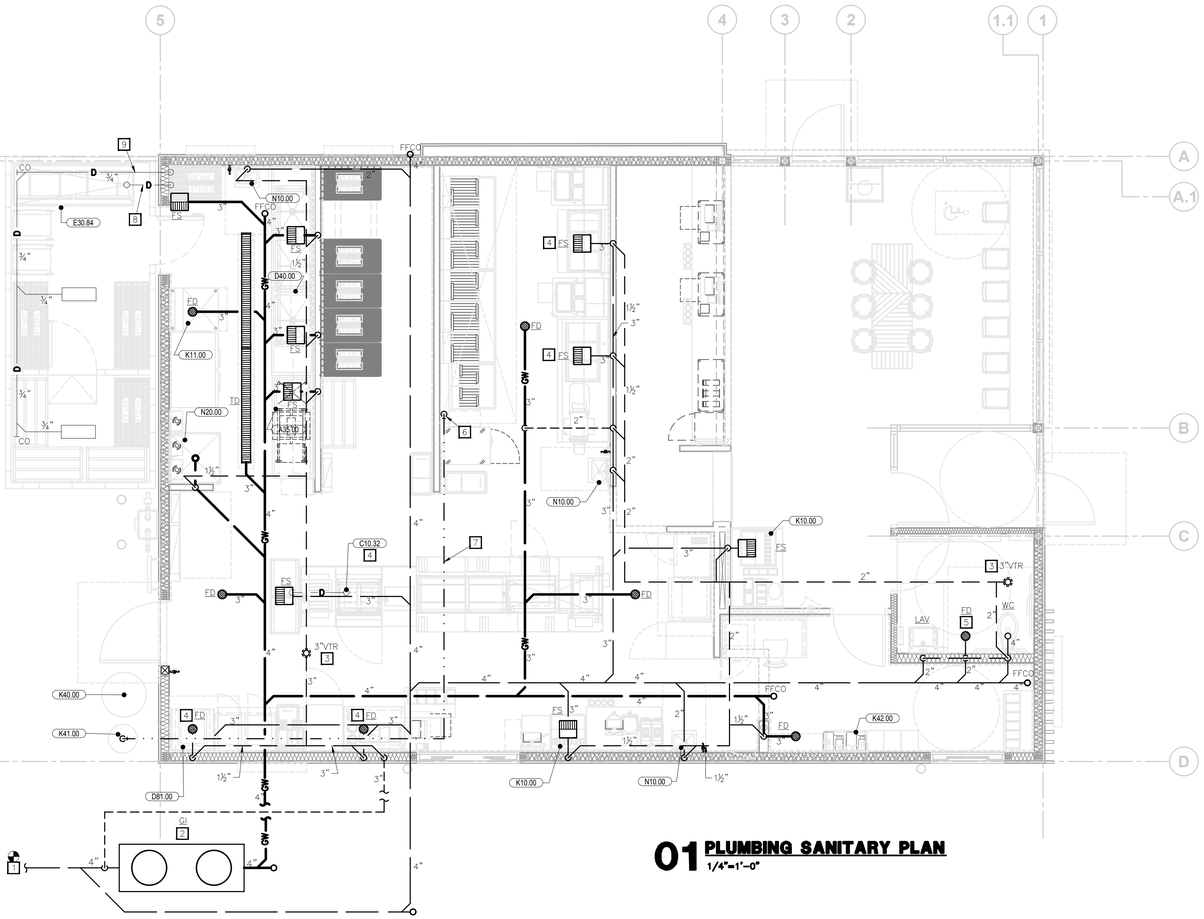

01 PLUMBING SANITARY PLAN
1/4"=1'-0"

PLUMBING KEY NOTES

1. CONNECT TO SANITARY WASTE LINE ON EXTERIRO OF BUILDING PROVIDED BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. PROVIDE GREASE INTERCEPTOR AS SHOWN PER PLANS. REFER TO "GREASE INTERCEPTOR" DETAIL. LOCATE INTERCEPTOR OUTSIDE OF DRIVE LANES. COORDINATE WITH CIVIL DRAWINGS FOR FINAL LOCATION.
3. PROVIDE SANITARY VENT THROUGH ROOF AS SHOWN PER PLAN PER "VENT THRU ROOF (VTR)" DETAIL. LOCATE VENT MINIMUM OF 10'-0" AWAY FROM AIR INTAKES ON ROOF, UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION.
4. PROVIDE DRAIN LINE FROM KITCHEN EQUIPMENT TO FLOOR SINK. REFER TO KITCHEN EQUIPMENT PLANS.
5. EMERGENCY DRAIN IN RESTROOM SHALL BE INSTALLED FLUSH TO GRADE WITH NO SLOPE. COORDINATE INSTALLATION HEIGHT WITH GENERAL CONTRACTOR TO ENSURE PROPER INSTALLATION.
6. USED COOKING OIL LINE MOUNTED FLUSH AGAINST WALL @ 3'-0" AFF. REFER TO "USED COOKING OIL RECOVERY" DETAIL. G.C. SHALL PROVIDE STAINLESS STEEL COVER TO CEILING.
7. PROVIDE HC HEAT TRACE TAPE ON USED COOKING OIL LINE FROM BUILDING TO TANK. INSTALL HEAT TRACE PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION.
8. EXTEND CHICKEN VAT'S 2" COPPER INDIRECT WASTE LINE THROUGH COOLER WALL TO DISCHARGE INTO FLOOR SINK.
9. ROUTE FREEZER/COOLER CONDENSATE DRAIN TO FLOOR SINK PER "WALK-IN COOLER/FREEZER DRAIN" DETAIL.

DFU CALCULATIONS

FIXTURE	QTY.	DFU	TOTAL
WATER CLOSET	1	4	4
LAVATORY	1	1	1
MOP BASIN	1	3	3
HAND SINK	3	1	3
3" FLOOR SINK	9	5	45
3" TRENCH DRAIN (EMERGENCY)	1	–	–
2"/3" FLOOR DRAIN (EMERGENCY)	7	–	–
DFU VALUES PER IPC		DFU TOTAL	56.0

ISSUE TABLE

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PROJECT NORTH

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Project

POPEYES LOUISIANA KITCHEN 1972

Store Type
US 2112 PROTOTYPE
2112-21

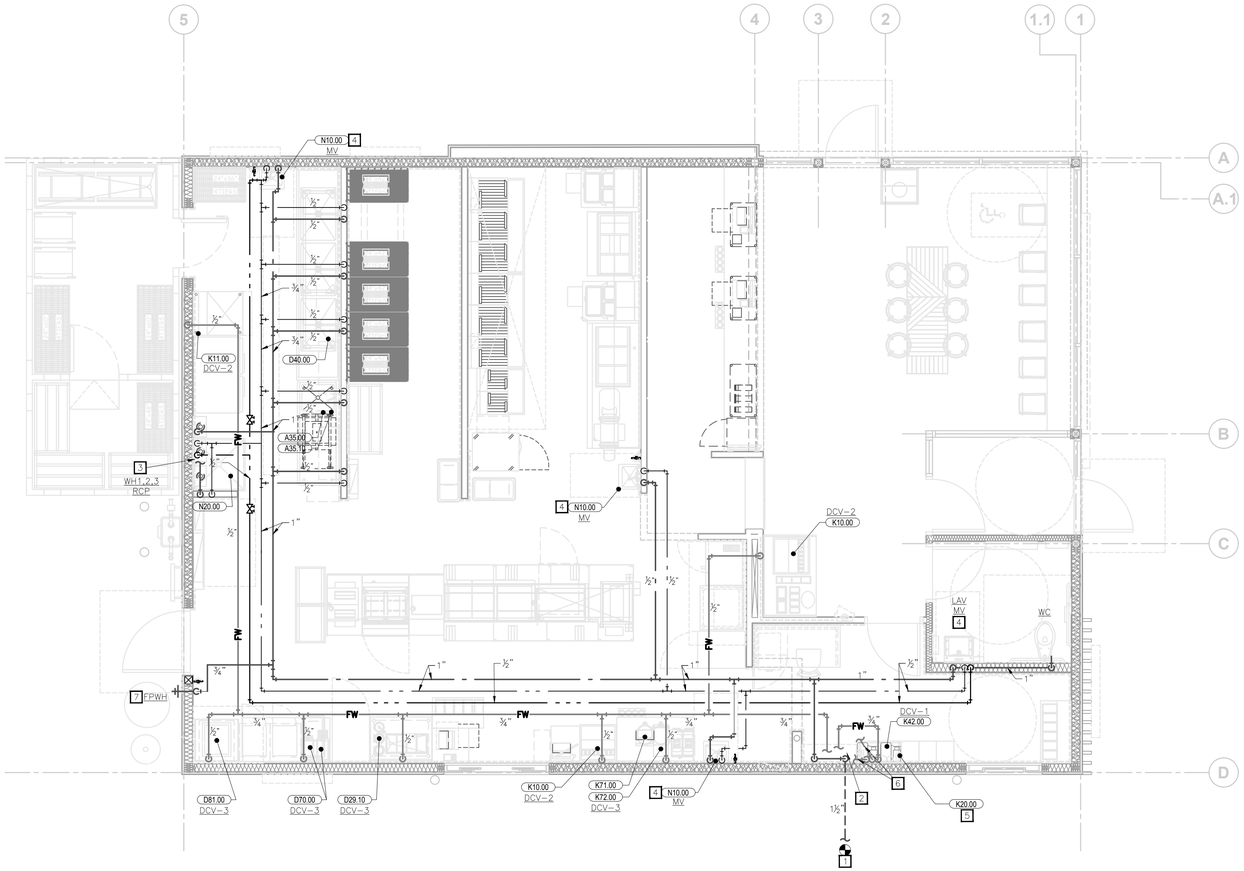
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
PLUMBING PLAN - SANITARY WASTE AND VENT

Drawn	Checked
GR	GWA
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	P2.1

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN, JR.
8-11-23

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



PLUMBING KEY NOTES

1. CONNECT TO DOMESTIC WATER SERVICE 5'-0" OUTSIDE BUILDING PROVIDED BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. PROVIDE WATER SERVICE ENTRANCE AS SHOWN PER PLANS. REFER TO "DOMESTIC WATER SERVICE ENTRY" DETAIL.
3. ROUTE 1" HW, 1" CW AND ¾" HWR LINES TO WATER HEATER, EXPANSION TANK, AND RECIRCULATING PUMP AS SHOW PER PLANS AND PER "TANKLESS WATER HEATERS", "RECIRCULATION PUMP", AND "SMALL EXPANSION TANK" DETAILS. DISCHARGE T&P RELIEF VALVE AND OVERFLOW TO FLOOR DRAIN PER "INDIRECT DRAIN" DETAIL. PROVIDE VALVE AND UNION ON INLET AND OUTLET. PROVIDE BALANCING VALVES AS REQUIRED FOR RECIRCULATING SYSTEM.
4. PROVIDE INDIVIDUAL MIXING VALVE FOR ALL HAND SINKS AND LAVATORIES IN AN ACCESSIBLE LOCATION.
5. WATER FILTER MOUNTED ON WALL. STUB-OUT WATER SUPPLY @ 8'-4" A.F.F. REFER TO "WATER FILTER" DETAIL.
6. BEVERAGE CONDUIT ABOVE CEILING TO DRINK STATION. REFER TO "BEVERAGE CONDUIT – ABOVE SLAB" DETAIL.
7. MOUNT FREEZE-PROOF WALL HYDRANT 18" ABOVE FINISHED GRADE. VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.

WSFU CALCULATIONS

FIXTURE	QTY.	WSFU	TOTAL
WATER CLOSET (FLUSH)	1	10	10
LAVATORY	1	2	2
MOP BASIN	1	3	3
HAND SINK	3	2	6
1-COMP SINK	1	3	3
3-COMP SINK	1	3	3
WAREWASH	0	3	0
BEVERAGE STATION	2	2	4
ICE MAKER	3	1	3
HOT WATER DISPENSER	2	1	2.0
TEA BREWER	1	1	1.0
WSFU VALUES PER IPC		WSFU TOTAL	37.00

WATER CALCULATION

CRITICAL ELEVATIONS AND DISTANCES:	FEET
ELEVATION OF CONTROLLING FIXTURE (WH-1,2,3)	6.0
ELEVATION OF FINISHED FLOOR	0.0
ELEVATION OF WATER MAIN CONNECTION	-4.0
VERTICAL DIST. FROM WATER MAIN CONNECTION TO CONTROLLING FIXTURE	10.0
SYSTEM PRESSURE REQUIREMENTS:	**PSI**
ELEVATION (VERTICAL DISTANCE) X 0.434 PSI/FT	4.3
PRESSURE NEEDED AT CONTROLLING FIXTURE	35
BACKFLOW PREVENTER: 1-1/2" (INTERIOR**)	10.0
WATER METER: 1-1/2" (INTERIOR**)	8.0
TOTAL	39.3
PIPE RUNS:	**FEET**
EXTERIOR, MAIN TO BUILDING ENTRY (VERIFY**)	200
INTERIOR, ENTRY TO CONTROLLING FIXTURE	6
INTERIOR, VERTICAL RISE	10.0
ALLOWANCE FOR FITTINGS, ETC. (LENGTH X 0.25)	4.0
TOTAL	220.0
SYSTEM PRESSURE DATA:	**PSI**
MINIMUM SYSTEM PRESSURE REQUIRED AT MAIN (VERIFY**)	65.0
SYSTEM PRESSURE REQUIRED FOR SYSTEM	39.3
PRESSURE AVAILABLE FOR (PIPING) FRICTION LOSS	25.7
PIPE SIZING:	**PSI/100'**
PRESSURE AVAILABLE X 100 / (TOTAL PIPE RUN)	11.7

* NOTE: ALL PIPING IS SIZED FOR 5 PSI/100' PRESSURE LOSS
** NOTE: FIELD VERIFY SYSTEM PRESSURE, LINE SIZES, BACKFLOW LOCATION, AND METER LOCATION PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF SYSTEM PRESSURE IS LOWER THAN REQUIRED PRESSURE OR ANY CONDITIONS EXIST THAT CONFLICT WITH INFORMATION SHOWN ABOVE.

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN JR.
8-11-23

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

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Project
LOUISIANA KITCHEN 19 72
POPEYES

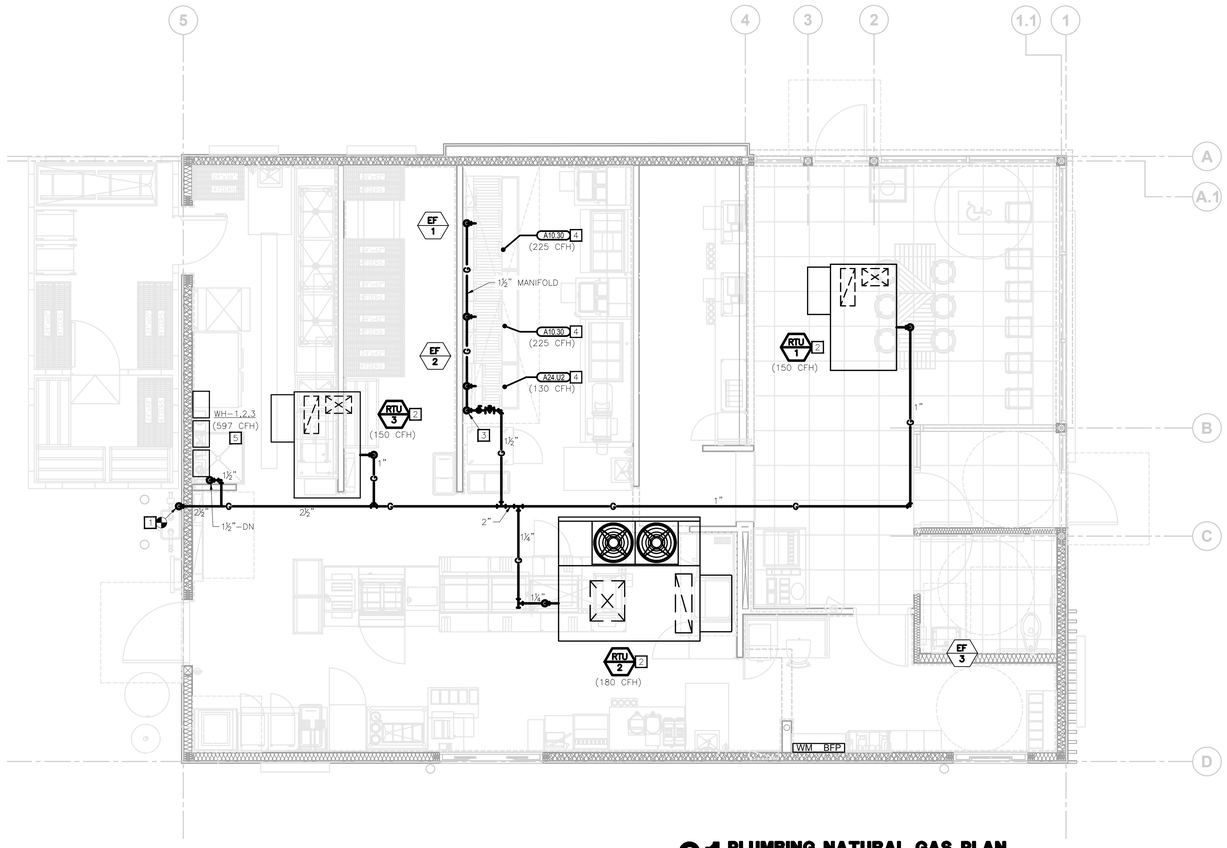
Store Type
US 2112 PROTOTYPE
2112-21

Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
PLUMBING PLAN - DOMESTIC WATER

Drawn	Checked
GR	GWA
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	P2.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



01 PLUMBING NATURAL GAS PLAN
1/4"=1'-0"

PLUMBING KEY NOTES

1. COORDINATE WITH LOCAL GAS COMPANY TO INSTALL GAS METER AND PRESSURE REGULATOR AT DEDICATED METER LOCATION. REFER TO GAS SCHEDULE ON THIS SHEET FOR TOTAL CAPACITY. REFER TO "GAS SERVICE" DETAIL.
2. ROUTE GAS PIPE THROUGH ROOF PER "ROOF PENETRATION" DETAIL. CONNECT TO ROOFTOP EQUIPMENT IN THIS VICINITY PER "ROOFTOP UNIT CONNECTIONS" DETAIL.
3. CONNECT TO AUTOMATIC GAS VALVE EXPOSED 6" BELOW CEILING HEIGHT. PROVIDED BY OWNER INSTALLED BY CONTRACTOR. INTERLOCK WITH HOOD SUPPRESSION PROVIDE UNION ON INLET AND OUTLET. COORDINATE REQUIREMENTS WITH HOOD VENDOR.
4. ROUTE GAS LINE TO KITCHEN EQUIPMENT PER "COOKING APPLIANCE GAS" DETAIL.
5. CONNECT TO WATER HEATERS PER "TANKLESS GAS WATER HEATERS" DETAIL.

GAS SCHEDULE

MARK	MBH (∝CFH)
RTU-1 & RTU-3	300.00 (150 EACH)
RTU-2	180.00
WH-1	199.00
WH-2	199.00
WH-3	199.00
A10.30	225.00
A10.30	225.00
A24.U2	130.00
TOTAL	1657.00

GAS PIPING DESIGN IS BASED ON A TOTAL CONNECTED LOAD AS SHOWN ABOVE WITH A TOTAL PIPE RUN INCLUDING FITTINGS, VALVES, ETCETERA OF 100 FEET, WITH PRESSURE AT THE METER DELIVERED AT 7" W.C. AS REQUIRED. SCHEDULE 40 METALLIC PIPE. FIELD VERIFY AVAILABLE PRESSURE AND ADJUST SIZING AS REQUIRED BY CODE.

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

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www.shultzeg.com | SEG - 23-436
NC FIRM LICENSE NUMBER: C-0898
PM: DD M: JTM E: RR P: GR

Project
LOUISIANA KITCHEN 19 72
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

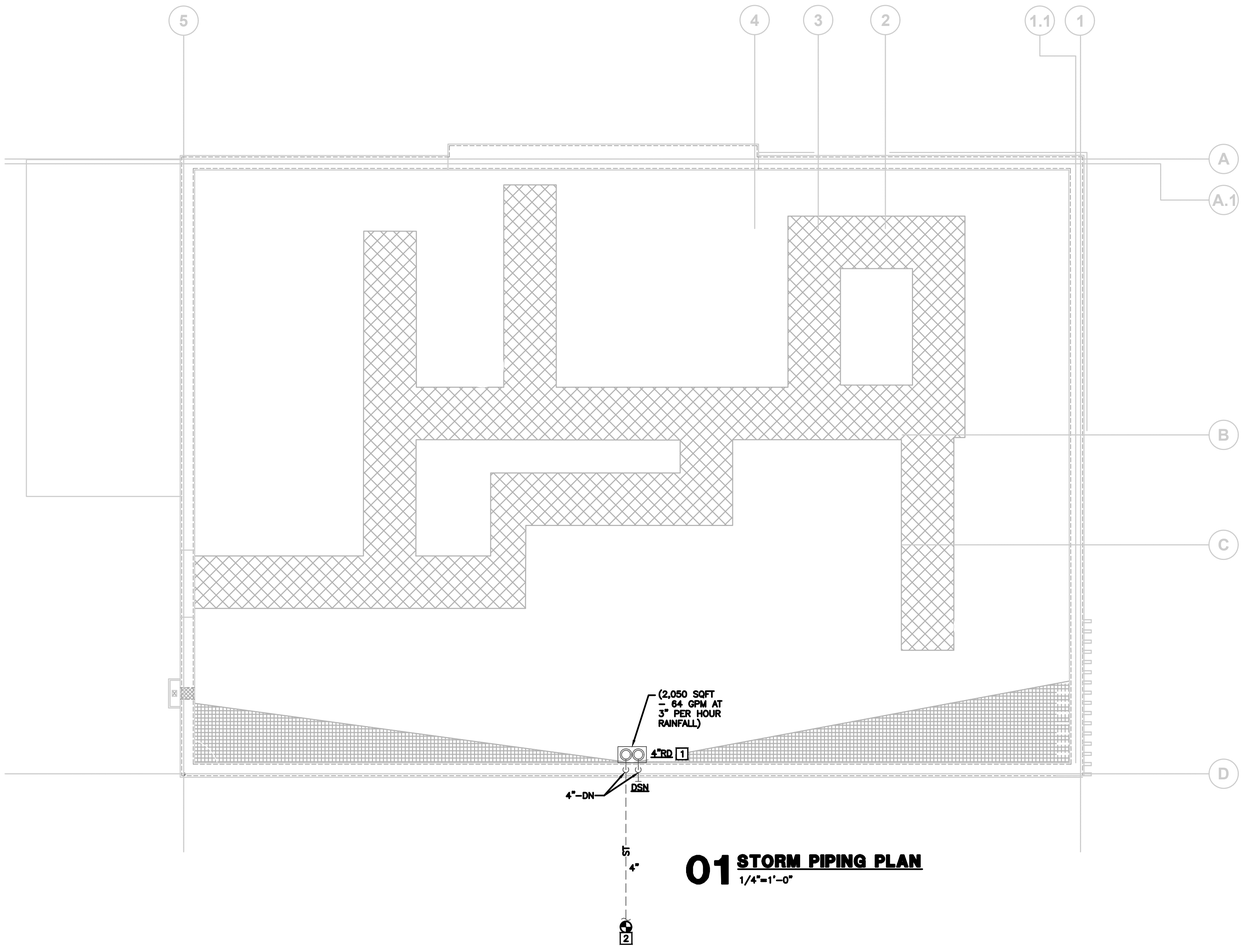
Location
PROTOTYPE
2112 (U.S.)
503 W. 3RD STREET
PEMBROKE, NORTH CAROLINA

Drawing Title
PLUMBING PLAN - NATURAL GAS

Drawn	Checked
GR	GWA
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	P2.3

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN JR.
8-11-23

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC: 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



01 STORM PIPING PLAN
1/4"=1'-0"

PLUMBING KEY NOTES

1 PROVIDE ROOF DRAIN AS SHOWN PER PLANS PER "ROOF DRAIN" DETAIL. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.

2 EXTEND STORM LINE OUT 5' 0" FOR CONNECTION BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONENCTION LOCATION.

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LOUISIANA KITCHEN 19 72
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2112-21

Location
PROTOTYPE
2112 (U.S.)
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PEMBROKE, NORTH CAROLINA

Drawing Title
PLUMBING PLAN - STORM PIPING

Drawn	Checked
GR	GWA
Scale	Date
	8/11/23
Project No.	Drawing No.
G23-29	P2.4

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN JR.
8-11-23

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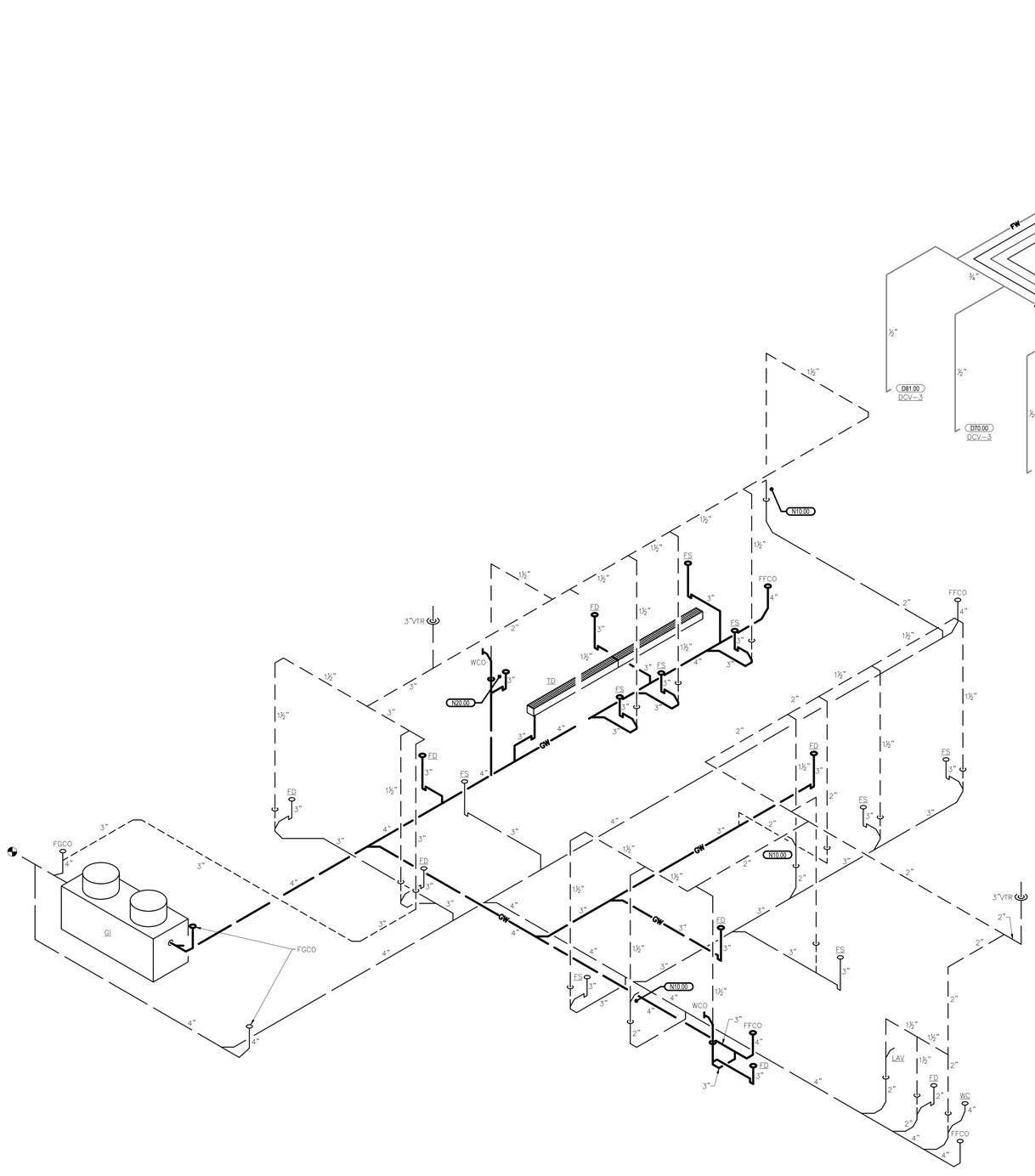
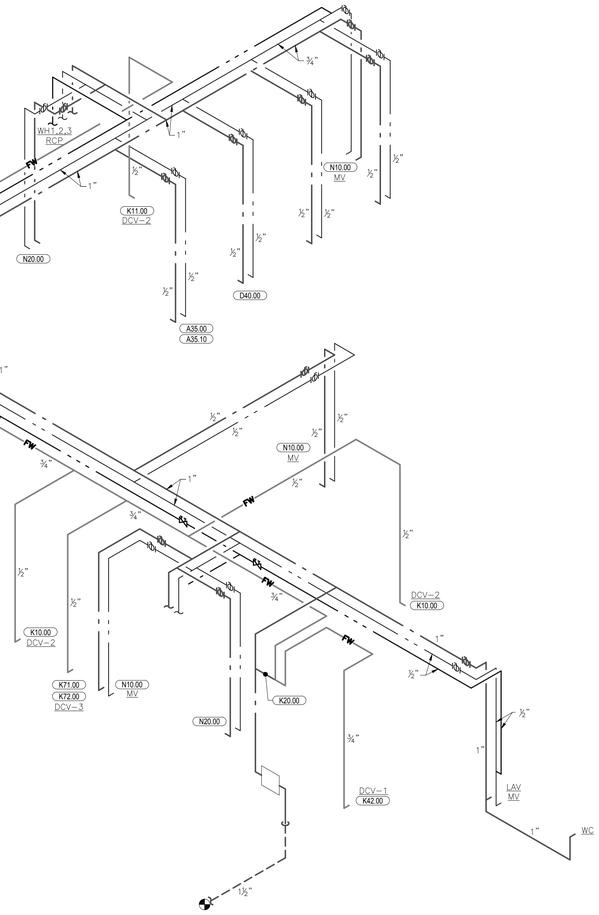


01 SANITARY WASTE AND VENT RISER
1/4"=1'-0"



02 DOMESTIC WATER RISER
1/4"=1'-0"

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Scale	Date
	8/11/23
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G23-29	P3.1

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN JR.
8-11-23

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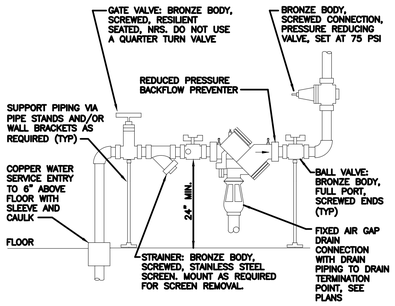
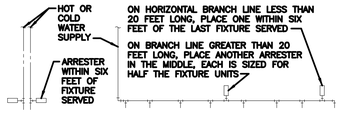


DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. PROVIDE BACKFLOW PREVENTER OF TYPE AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES. PROVIDE PRESSURE REDUCING VALVE ONLY IF PRESSURE EXCEEDS 80 PSI – VERIFY. STRAINER AND REDUCING VALVE MAY BE INSTALLED IN VERTICAL PIPE IF SPACE LIMITATIONS REQUIRE IT. CLEAN STRAINER BEFORE TURNING BUILDING OVER TO OWNER. PROVIDE ANY REQUIRED CERTIFICATION OF TEST OF BACKFLOW PREVENTER TO LOCAL AUTHORITIES.

13 DOMESTIC WATER SERVICE ENTRY
NOT TO SCALE



SINGLE FIXTURE

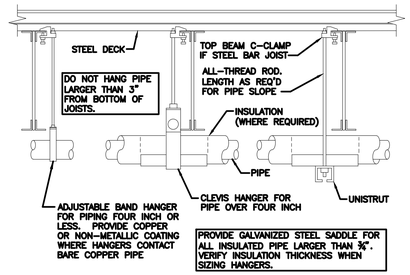
PDI SIZE	FIXTURE UNIT LOAD
AA	1–3
A	4–11
B	12–32
C	33–60
D	61–113
E	114–154
F	155–330

MULTIPLE FIXTURES

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	–
TANK WATER CLOSET	5	–
URINAL	5	–
LAVATORY	1.5	1.5
SINK	2	2
MOP BASIN	3	3
SHOWER/BATHTUB	2	3
DRINKING FOUNTAIN	0.5	–

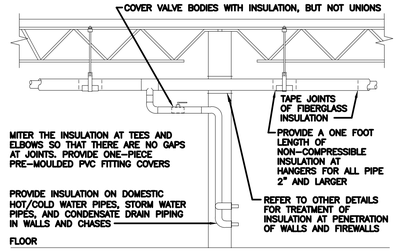
PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O–RING CONSTRUCTION, HAVING PDI #WH–201, ASSE #1010 OR ANSI #A112.26.1M CERTIFICATION. SIZE AND INSTALL PER PDI #WH–201 STANDARD OR MANUFACTURER'S INSTRUCTION. THE TABLES ABOVE ARE BASED ON THE SIOUX CHIEF PRODUCT LINE. IF PRESSURE IS IN EXCESS OF 65 PSIG THEN UPSIZE THE ARRESTER BY ONE (EXAMPLE: AN 'A' ARRESTER WOULD BECOME A 'B' ARRESTER.)

09 WATER HAMMER ARRESTERS
NOT TO SCALE



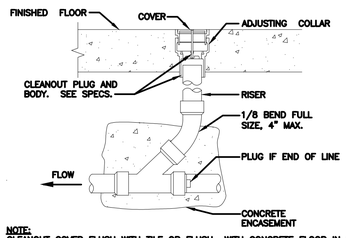
PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12'–0"; 3"=11'–0"; 2½"=10'–0"; 2"=9'–0"; 1½"=8'–0"; 1¼"=7'–0"; 1" & ¾"=6'–0"; ½"=5'–0". CAST IRON: 10'–0" AND ONE NEAR ALL JOINTS. STEEL: 4"=14'–0"; 3"=12'–0"; 2½"=11'–0"; 2"=10'–0"; 1½"=9'–0"; 1"=7'–0"; ¾"=6'–0"; ½"=5'–0". LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

05 PIPE HANGERS
NOT TO SCALE



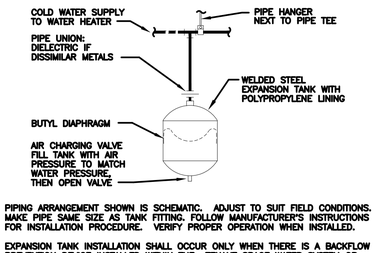
PROVIDE FIBERGLASS INSULATION WITH ALL–SERVICE JACKET WITH VAPOR BARRIER ON ALL COLD/HOT WATER PIPING AND CONDENSATE DRAIN PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME–SPREAD AND SMOKE–DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

01 PIPE INSULATION
NOT TO SCALE



NOTE:
CLEANOUT COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

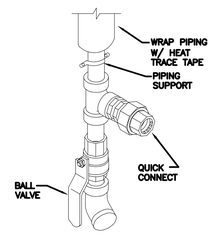
14 FLOOR CLEAN-OUT
NOT TO SCALE



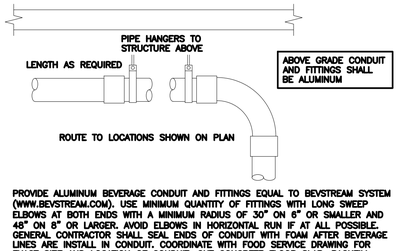
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.

EXPANSION TANK INSTALLATION SHALL OCCUR ONLY WHEN THERE IS A BACKFLOW PREVENTION DEVICE INSTALLED WITHIN THE TENANT SPACE WATER SYSTEM OR BUILDING WATER SYSTEM.

10 SMALL EXPANSION TANK
NOT TO SCALE

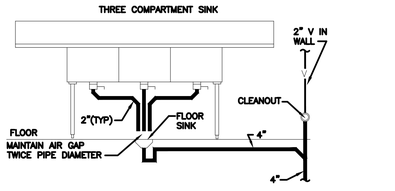


06 USED COOKING OIL RECOVERY
NOT TO SCALE



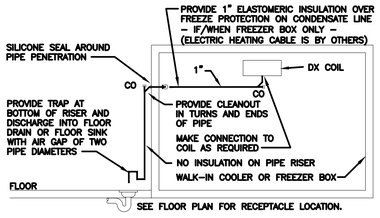
PROVIDE ALUMINUM BEVERAGE CONDUIT AND FITTINGS EQUAL TO BEVSTREAM SYSTEM (WWW.BEVSTREAM.COM). USE MINIMUM QUANTITY OF FITTINGS WITH LONG SWEEP ELBOWS AT BOTH ENDS WITH A MINIMUM RADIUS OF 30" ON 6" OR SMALLER AND 48" ON 8" OR LARGER. AVOID ELBOWS IN HORIZONTAL RUN IF AT ALL POSSIBLE. GENERAL CONTRACTOR SHALL SEAL ENDS OF CONDUIT WITH FOAM AFTER BEVERAGE LINES ARE INSTALL IN CONDUIT. COORDINATE WITH FOOD SERVICE DRAWING FOR EXACT SIZE AND LOCATION OF CONDUIT. CUT CONCRETE FLOOR SLAB, BACKFILL, REPAIR VAPOR BARRIER AND PATCH SLAB PER ARCHITECT'S REQUIREMENTS.

02 BEVERAGE CONDUIT - ABOVE SLAB
NOT TO SCALE



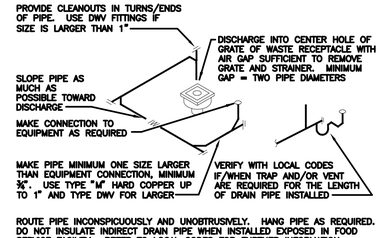
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS. UTILIZE HUBLESS CAST IRON PIPE, FITTINGS AND CONNECTORS FOR SINK CONNECTIONS.

15 3-COMP SINK
NOT TO SCALE



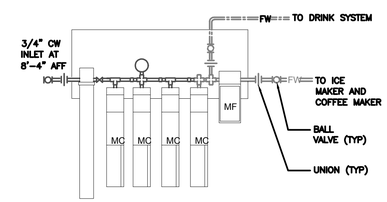
INSTALL PIPE HIGH AS POSSIBLE, ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD–FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.

11 WALK-IN COOLER/FREEZER DRAIN
NOT TO SCALE



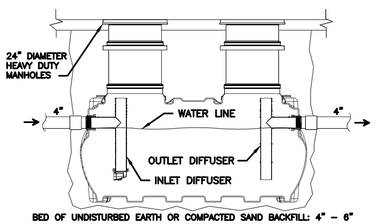
ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

07 INDIRECT DRAIN
NOT TO SCALE



REFER TO KITCHEN EQUIPMENT DRAWINGS FOR FILTER REQUIREMENTS.

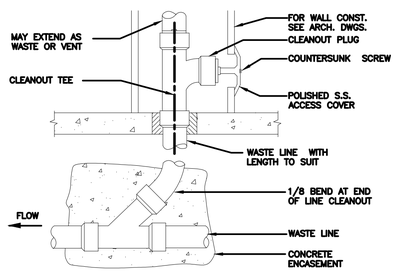
03 WATER FILTER
NOT TO SCALE



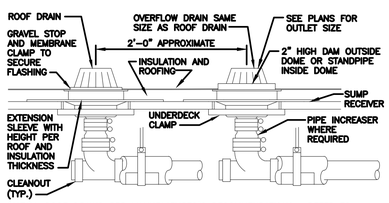
BED OF UNDISTURBED EARTH OR COMPACTED SAND BACKFILL: 4" – 6"

GB–250 – 100 GPM – 277 GALLON CAPACITY:
DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION. SEE MANUFACTURER INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS.

12 GREASE INTERCEPTOR
NOT TO SCALE



08 WALL CLEAN-OUT
NOT TO SCALE



INSTALL ROOF DRAINS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR PIPING MATERIAL. INSULATE ROOF DRAIN BODIES AND PIPE PER SPECIFICATIONS. LOCATE DRAINS WHERE SHOWN ON ARCHITECTURAL PLANS – VERIFY WITH STRUCTURAL PLANS FOR ROOF LOW POINTS. COORDINATE WITH ROOFING CONTRACTOR. REFER TO STRUCTURAL DRAWINGS AND COORDINATE THEREWITH IF REQUIRED FOR SUPPLEMENTARY STEEL AROUND ROOF OPENING. ARRANGEMENT SHOWN IS SCHEMATIC –– ADJUST TO SUIT ACTUAL CONDITIONS.

04 ROOF DRAIN AND OVERFLOW
NOT TO SCALE

NORTH CAROLINA PROFESSIONAL SEAL 17231 ENGINEER GEORGE W. AUSTIN JR.
8-11-23

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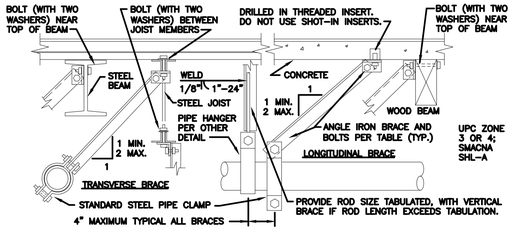
Drawn	Checked
GR	GWA
Scale	Date
-	8/11/23
Project No.	Drawing No.
G23-29	P4.1

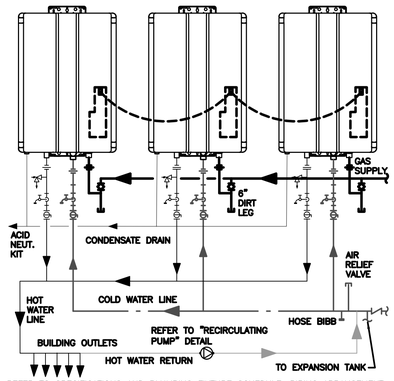
POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185



PIPE SIZE	SPACING TR.	SPACING LO.	TRANSVERSE BRACE	LONGITUDINAL BRACE	BOLT SIZE	ROD SIZE	MAX ROD LENGTH	VERTICAL BRACE
1" TO 2"	20'	20'	2"x2"x18GA	2"x2"x18GA	1/4"	3/8"	20"	2"x2"x18GA
2-1/2" TO 3"	40'	40'	2-1/2x2-1/2x16GA	2-1/2x2-1/2x16GA	3/8"	1/2"	25"	2"x2"x16GA
4" TO 5"	40'	40'	2-1/2x2-1/2x16GA	2-1/2x2-1/2x12GA	1/2"	5/8"	31"	2"x2"x16GA
6"	40'	40'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	1/2"	3/4"	37"	2-1/2x2-1/2x16GA
8"	40'	40'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	5/8"	7/8"	43"	2-1/2x2-1/2x12GA
10"	20'	20'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	3/4"	7/8"	43"	2-1/2x2-1/2x12GA
12"	20'	20'	3"x3"x12GA	3"x3"x12GA	3/4"	7/8"	43"	2-1/2x2-1/2x12GA
14"	20'	20'	3"x3"x12GA	3"x3"x12GA	3/4"	1"	50"	2-1/2x2-1/2x12GA

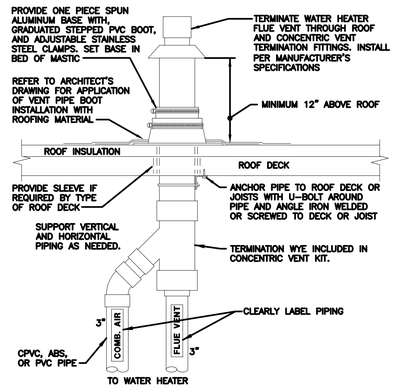
DO NOT BRACE ANY PIPES WHERE TOP OF PIPE TO BOTTOM OF UPPER ATTACHMENT IS LESS THAN 12". BRACE GAS, OIL AND AIR PIPES 1" AND LARGER. BRACE ALL PIPES IN EQUIPMENT ROOMS 1-1/4" AND LARGER. BRACE ALL OTHER PIPE 2-1/2" AND LARGER. BRACE HUBLESS CAST IRON PIPE ON EACH SIDE OF ANY CHANGE IN DIRECTION OF 90 DEGREES OR MORE. MAXIMUM HANGER ROD LENGTH IS 6 FEET. WHERE LENGTH OF RUN EXCEEDS LONGITUDINAL BRACE SPACING, PROVIDE 2 FEET OFFSET IN PIPE AND LOCATE BRACE AT MID RUNS. REFER TO CURRENT EDITION OF SMACNA "SEISMIC RESTRAINT MANUAL" FOR ALTERNATIVE ATTACHMENTS AND ADDITIONAL INFORMATION AND REQUIREMENTS. (THIS DETAIL APPLIES IN THE ABSENCE OF OTHER LOCAL CODE REQUIREMENTS.)

13 SEISMIC BRACING FOR PIPE
NOT TO SCALE



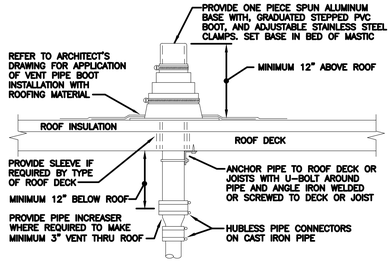
REFER TO SPECIFICATIONS AND PLUMBING FIXTURE SCHEDULE. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLAN FOR PIPE SIZES. SET WATER HEATER THERMOSTAT AT 120° FAHRENHEIT. PROVIDE SEISMIC STRAP OR BRACING AND FLEXIBLE CONNECTORS TO WATER AND GAS CONNECTIONS IF/AS REQUIRED BY LOCAL AUTHORITIES.

09 TANKLESS GAS WATER HEATERS
NOT TO SCALE



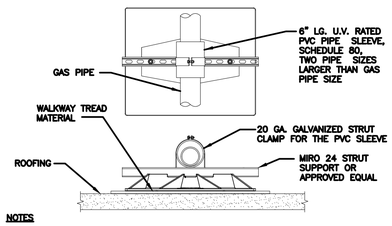
REFER TO PLANS FOR WATER HEATER FLUE VENT PIPE SIZES AND LOCATIONS. LOCATE CONCENTRIC VENT A MINIMUM OF 10 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) AND ONE FOOT FROM ANY VERTICAL SURFACE. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.

05 CONCENTRIC VENT
NOT TO SCALE



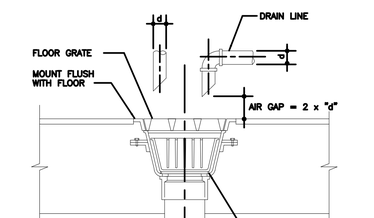
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR A MINIMUM OF 20 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.

01 VENT THRU ROOF (VTR)
NOT TO SCALE

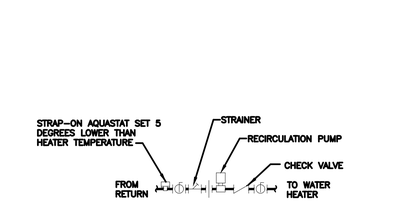


NOTES
1. SUPPORT REQUIRED 10'-0" O.C. AND AT ALL CHANGES IN DIRECTION.
2. INCREASE IN HEIGHT AS REQUIRED FOR ROUTING ABOVE ROOF MOUNTED ACCESSORIES SUCH AS EXPANSION JOINTS AND TO ACCOMMODATE SLOPE.

14 ROOF GAS PIPE SUPPORT
NOT TO SCALE

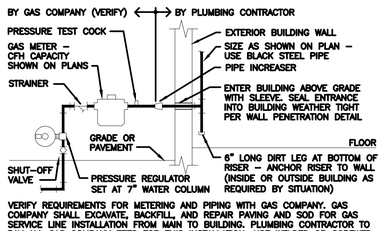


10 FLOOR SINK
NOT TO SCALE



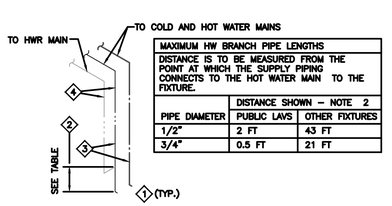
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO WATER HEATER DETAIL FOR MORE INFORMATION.

06 RECIRCULATION PUMP
NOT TO SCALE



VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. GAS COMPANY SHALL EXCAVATE, BACKFILL AND REPAIR PAVING AND SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING. PLUMBING CONTRACTOR TO PAY ALL GAS COMPANY FEES FOR THIS INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER SPECIFICATIONS. PAINT EXPOSED METAL GAS PIPE, FITTINGS AND ITEMS LIGHT GREEN. PROVIDE SEISMIC GAS VALVE AS REQUIRED; COORDINATE REQUIREMENTS WITH GAS COMPANY.

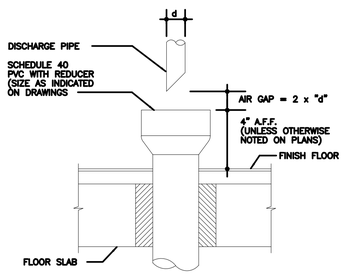
02 GAS SERVICE
NOT TO SCALE



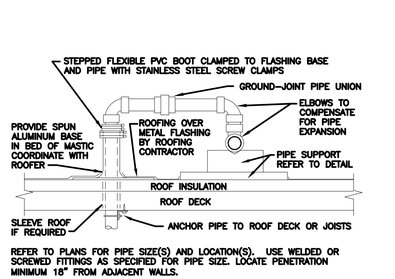
MAXIMUM HW BRANCH PIPE LENGTHS		
DISTANCE IS TO BE MEASURED FROM THE POINT AT WHICH THE SUPPLY PIPING CONNECTS TO THE HOT WATER MAIN TO THE FIXTURE.		
	DISTANCE SHOWN - NOTE 2	
PIPE DIAMETER	PUBLIC LAVS	OTHER FIXTURES
1/2"	2 FT	43 FT
3/4"	0.5 FT	21 FT

KEY NOTES
1. HOT WATER PIPING SHOWN ON FLOOR PLANS AND ISOMETRIC IS SHOWN FOR PLAN CLARITY. HOT WATER PIPING SHALL LOOP DOWN INTO WALL AS SHOWN.
2. SEE TABLE FOR MAXIMUM ALLOWED DISTANCE OF PIPING FROM HOT WATER MAIN TO FIXTURE.
3. PIPE SIZE TO FIXTURE PER PLANS.
4. PIPE SIZE FOR HOT WATER DISTRIBUTION PIPING PER PLANS.

15 PUBLIC HANDWASHING RECIRC.
NOT TO SCALE

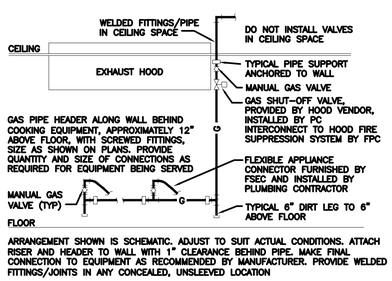


11 HUB DRAIN
NOT TO SCALE



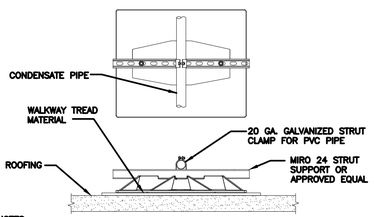
REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S). USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS.

07 ROOF PENETRATION
NOT TO SCALE



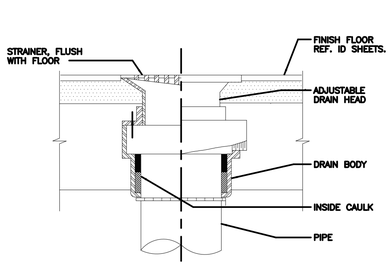
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. ATTACH RISER AND HEADER TO WALL WITH 1" CLEARANCE BEHIND PIPE. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION

03 COOKING APPLIANCE GAS PIPE
NOT TO SCALE

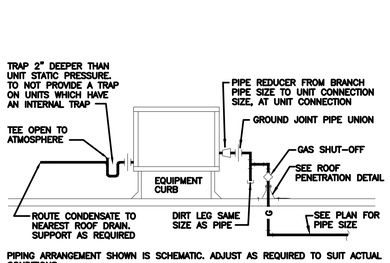


NOTES
1. SUPPORT REQUIRED 10'-0" O.C. AND AT ALL CHANGES IN DIRECTION.
2. INCREASE IN HEIGHT AS REQUIRED FOR ROUTING ABOVE ROOF MOUNTED ACCESSORIES SUCH AS EXPANSION JOINTS AND TO ACCOMMODATE SLOPE.

12 ROOF CONDENSATE PIPE SUPPORT
NOT TO SCALE

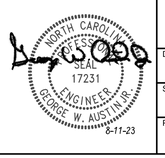


08 FLOOR DRAIN
NOT TO SCALE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL CONDITIONS

04 ROOFTOP UNIT CONNECTIONS
NOT TO SCALE



ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type	US 2112 PROTOTYPE 2112-21
Location	PROTOTYPE 2112 (U.S.) 503 W. 3RD STREET PEMBROKE, NORTH CAROLINA
Drawing Title	PLUMBING DETAILS

Drawn	Checked
GR	GWA
Scale	Date
-	8/11/23
Project No.	Drawing No.
G23-29	P4.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 503 W. 3RD STREET, PEMBROKE, NC. 2124 PROTOTYPE DOCUMENTS STORE NO. 14185