

ARCHITECT
THE DIMENSION GROUP

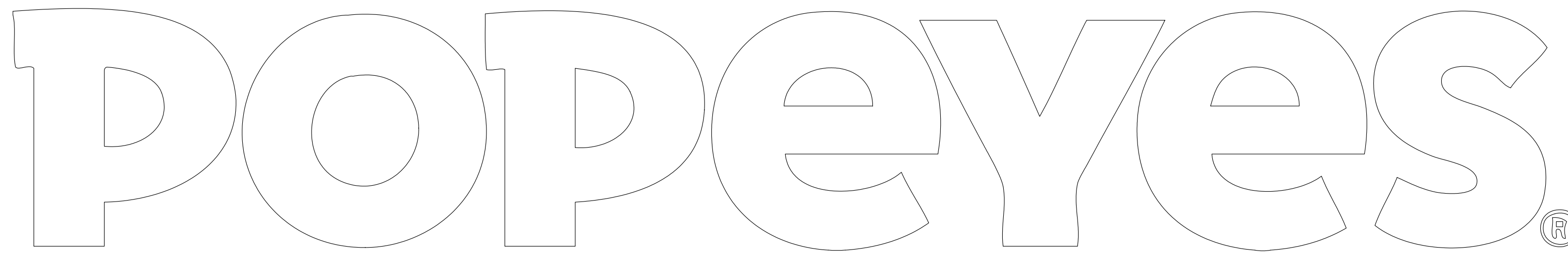
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THE DIMENSION GROUP

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LOUISIANA KITCHEN

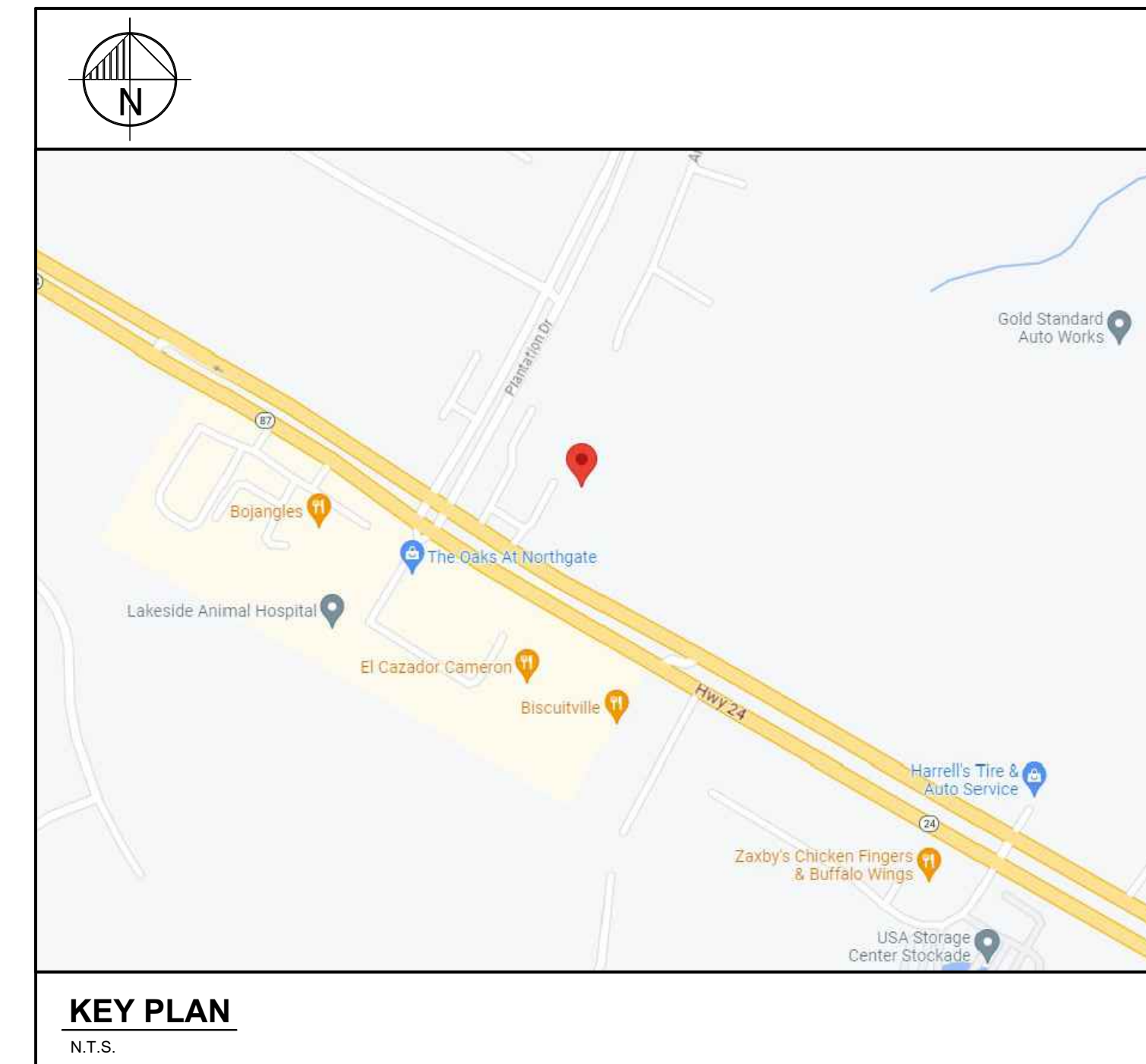
2112 PROTOTYPE
1517 NC 24-87
CAMERON, NC 28326

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

FIRM NAME: THE DIMENSION GROUP																																					
NAME OF PROJECT: POPEYES - 2112 MODEL																																					
LOCATION: ADDRESS 84-87, CAMERON, NC																																					
THE ARCHITECT NOTED ABOVE HAS EXERCISED RESPONSIBLE CONTROL WITH RESPECT TO DESIGN ACTIVITIES.																																					
1 APPLICABLE CODES	BUILDING: 2018 INTERNATIONAL BUILDING CODE PLUMBING: 2018 INTERNATIONAL PLUMBING CODE FIRE: 2018 INTERNATIONAL FIRE CODE MECHANICAL: 2018 INTERNATIONAL MECHANICAL CODE ELECTRICAL: 2020 NATIONAL ELECTRICAL CODE ACCESSIBILITY: ICC / ANSI A117.1 2009 ENERGY: 2018 INTERNATIONAL ENERGY CONSERVATION CODE																																				
2 ZONING CLASSIFICATION	C1 - COMMERCIAL																																				
3 OCCUPANCY CLASSIFICATION	MIXED USE A-2 - (ASSEMBLY) & B - (BUSINESS)																																				
4 CONSTRUCTION TYPE	VB COMBUSTIBLE MATERIALS, UNPROTECTED																																				
5 BUILDING AREA	ALLOWED: 6000 SQ FT PROVIDED: 1965 SQ FT																																				
6 BUILDING HEIGHT	ALLOWED: 40' 0" HIGH PROVIDED: 19' 0" HIGH																																				
7 SCOPE OF WORK STATEMENT	NEW BUILD, CONSTRUCTION																																				
8 OCCUPANCY CALCULATIONS	<table border="1"> <thead> <tr><th>FLOOR</th><th>USE</th><th>SQUARE FOOTAGE</th><th>OCCUPANT LOAD FACTOR</th><th>NUMBER OF OCCUPANTS</th><th>NUMBER OF SEATS</th></tr> </thead> <tbody> <tr><td>1 OF 1</td><td>DINING (UNCONCENTRATED)</td><td>224 SQ. FT.</td><td>1:15</td><td>15</td><td>12</td></tr> <tr><td>1 OF 1</td><td>DINING (STANDING)</td><td>59 SQ. FT.</td><td>1:15</td><td>4</td><td>-</td></tr> <tr><td>1 OF 1</td><td>KITCHEN</td><td>1100 SQ. FT.</td><td>1:200</td><td>6</td><td>-</td></tr> <tr><td>1 OF 1</td><td>UNOCCUPIED AREAS</td><td>342 SQ. FT.</td><td>-</td><td>0</td><td>-</td></tr> <tr><td colspan="6">TOTAL NUMBER OF OCCUPANTS: 25</td></tr> </tbody> </table> <p>* UNOCCUPIED AREAS INCLUDE: WALK-IN FREEZER/COOLER, WALLS, CANOPIES / OVERHANGS, WASHROOM VESTIBULE, VESTIBULE AND RESTROOMS</p>	FLOOR	USE	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	NUMBER OF OCCUPANTS	NUMBER OF SEATS	1 OF 1	DINING (UNCONCENTRATED)	224 SQ. FT.	1:15	15	12	1 OF 1	DINING (STANDING)	59 SQ. FT.	1:15	4	-	1 OF 1	KITCHEN	1100 SQ. FT.	1:200	6	-	1 OF 1	UNOCCUPIED AREAS	342 SQ. FT.	-	0	-	TOTAL NUMBER OF OCCUPANTS: 25					
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9 EGRESS CALCULATION	<table border="1"> <thead> <tr><th>TOTAL OCCUPANTS</th><th>CALCULATED MIN. EGRESS (1005.1)</th><th>MIN. EGRESS WIDTH REQUIRED (32" MIN.)</th><th>TOTAL EGRESS WIDTH PROVIDED</th></tr> </thead> <tbody> <tr><td>25</td><td>20' X .25 = 4.9'</td><td>(32" MIN.)</td><td>114"</td></tr> </tbody> </table>	TOTAL OCCUPANTS	CALCULATED MIN. EGRESS (1005.1)	MIN. EGRESS WIDTH REQUIRED (32" MIN.)	TOTAL EGRESS WIDTH PROVIDED	25	20' X .25 = 4.9'	(32" MIN.)	114"																												
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25	20' X .25 = 4.9'	(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) ROOF CONSTRUCTION: (0 HOUR) CEILING: (0 HOUR)																																				
12 SPRINKLER SYSTEM	ENTIRE BUILDING (EXISTING) IN LIEU OF ROOF RATING BASEMENT ONLY NOT REQUIRED																																				
13 FIRE ALARM	NOT REQUIRED																																				
14 MAX. TRAVEL DISTANCE	200' (250' WITH SPRINKLER SYSTEM)																																				
15 PLUMBING REQUIREMENT	<table border="1"> <tr><td>WATER CLOSETS</td><td>1 REQUIRED</td></tr> <tr><td>LAVATORIES</td><td>1 REQUIRED</td></tr> <tr><td>URINALS</td><td>NOT REQUIRED</td></tr> <tr><td>DRINKING FOUNTAIN</td><td>NOT REQUIRED</td></tr> <tr><td>PUBLIC ACCESS</td><td>PROVIDED</td></tr> <tr><td>UNISEX IS PERMITTED</td><td>YES</td></tr> </table>	WATER CLOSETS	1 REQUIRED	LAVATORIES	1 REQUIRED	URINALS	NOT REQUIRED	DRINKING FOUNTAIN	NOT REQUIRED	PUBLIC ACCESS	PROVIDED	UNISEX IS PERMITTED	YES																								
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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.: C22-129
POPEYES NO.: RN. xxxx

DRAWING LIST

CS	COVER PAGE		
AS1.1	ARCHITECTURAL SITE PLAN	E2.1	ELECTRICAL SCHEDULES
AS2.1	MENU SIGN DETAILS SINGLE DOUBLE DRIVE-THRU	E3.1	ELECTRICAL DETAILS
AS2.2	SITE DETAILS - TRASH ENCLOSURE WOOD	E4.1	ELECTRICAL ENERGY CALCS
AS2.3	SITE DETAILS		
AS2.4	LIFE SAFETY & EXITING PLAN	M1.1	MECHANICAL PLAN
A1	FLOOR PLAN AND SCHEDULES	M1.2	MECHANICAL ROOF PLAN
A2	EQUIPMENT PLAN AND SCHEDULES	M2.1	MECHANICAL SCHEDULE
A3	REFLECTED CEILING PLAN & DETAILS	M3.1	MECHANICAL HOOD DRAWINGS
A4	ROOF PLAN AND DETAILS	M3.2	MECHANICAL HOOD DRAWINGS
A4.1	ROOF DETAILS	M3.3	MECHANICAL HOOD DRAWINGS
A5	EXTERIOR ELEVATIONS	M3.4	MECHANICAL HOOD DRAWINGS
A5.1	EXTERIOR ELEVATIONS	M4.1	MECHANICAL DETAILS
A6	BUILDING SECTIONS		
A6.1	WALL SECTIONS	P1.1	PLUMBING SCHEDULES AND NOTES
A6.2	WALL SECTIONS	P2.1	PLUMBING PLAN - SANITARY WASTE & VENT
A6.3	WALL SECTIONS	P2.2	PLUMBING PLAN - DOMESTIC WATER
A7	SECTION DETAILS	P2.3	PLUMBING PLAN - ROOF DRAINS
A7.1	PLAN DETAILS	P3.1	PLUMBING RISERS
A8	DETAILS	P4.1	PLUMBING DETAILS
A9	INTERIOR ELEVATIONS	P4.2	PLUMBING DETAILS
A9.1	INTERIOR ELEVATIONS		
A9.2	INTERIOR ELEVATIONS	SP1	ARCHITECTURAL SPECIFICATIONS
A9.3	WASHROOM DETAILS	SP2	ARCHITECTURAL SPECIFICATIONS
A10	TILE PLAN AND FINISHING SCHEDULE	SP3	ARCHITECTURAL SPECIFICATIONS
A11	DOOR AND WINDOW SCHEDULES	SP4	ARCHITECTURAL SPECIFICATIONS
A12	FINISH SCHEDULE	SP5	ARCHITECTURAL SPECIFICATIONS
A12.1	FINISH SCHEDULE	SP6	ARCHITECTURAL SPECIFICATIONS
A12.2	FINISH SCHEDULE	SP7	ARCHITECTURAL SPECIFICATIONS
A12.3	FINISH SCHEDULE		
S0.1	STRUCTURAL NOTES	ES.1	ELECTRICAL SPECIFICATIONS
S1.1	FOUNDATION PLAN	ES.2	ELECTRICAL SPECIFICATIONS
S1.2	STRUCTURAL FOUNDATION SECTIONS	MS1.1	MECHANICAL SPECIFICATIONS
S2.1	FRAMING PLAN		
S2.2	STRUCTURAL FRAMING SECTIONS	PS1.1	PLUMBING SPECIFICATIONS

ES1	ELECTRICAL SITE PLAN
E1.0	ELECTRICAL GENERAL NOTES AND LEGEND
E1.1	ELECTRICAL LIGHTING PLAN
E1.2	ELECTRICAL POWER PLAN
E1.3	ELECTRICAL ROOF PLAN
E1.4	ELECTRICAL LOW VOLTAGE PLAN
E1.5	ELECTRICAL SECURITY PLAN

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION



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11.10.2023

Company Logo

ARCHITECTURE - CIVIL ENGINEERING - MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL 214-343-9400 www.dimensiongroup.com

Project

POPEYES

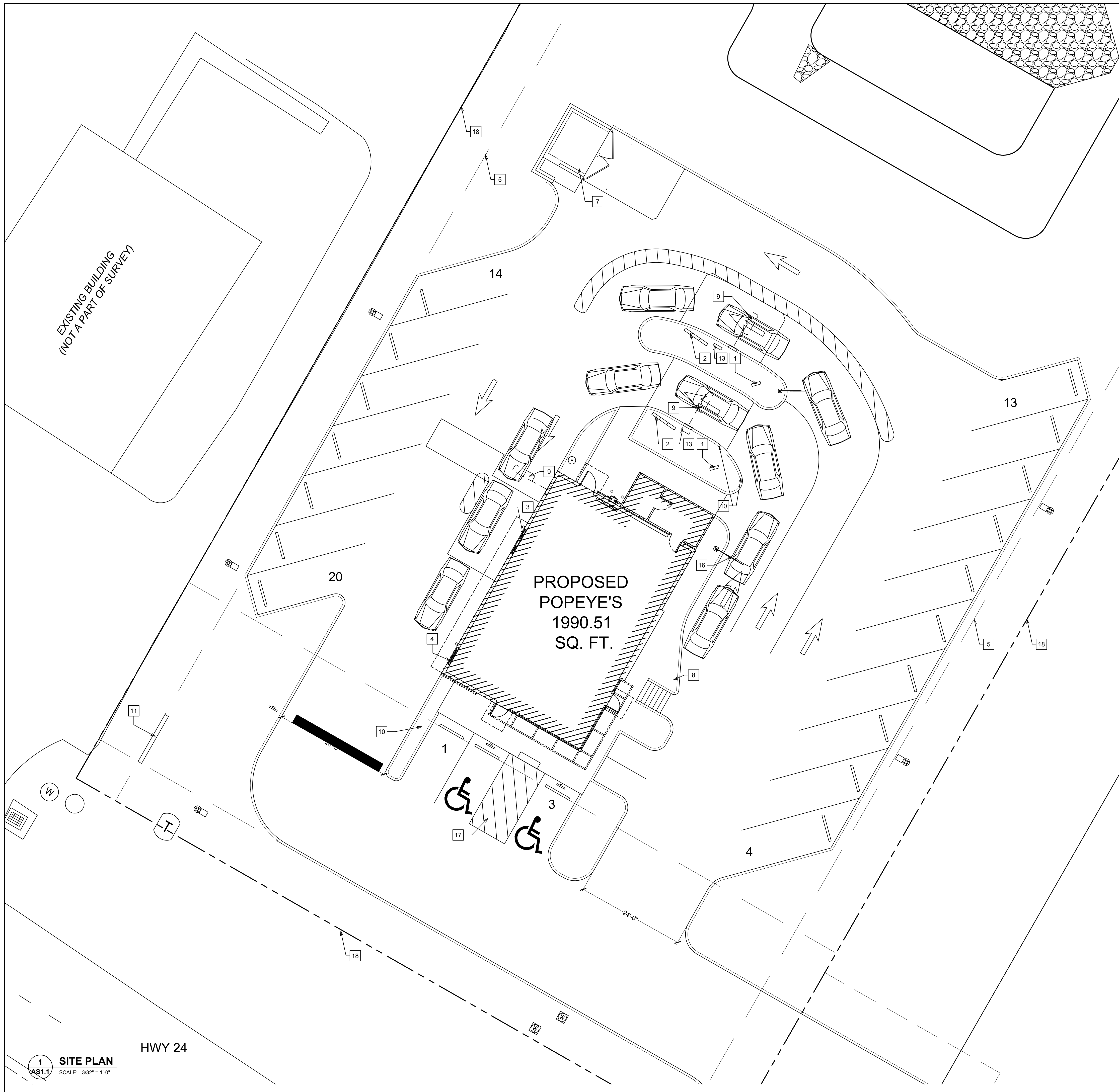
Store Type: US 2112 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: COVER SHEET

Drawn	SH	Checked	AL
Scale	NTS	Date	JUNE 2023
Project No.	C22-129	Drawing No.	CS

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



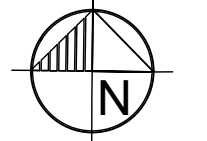
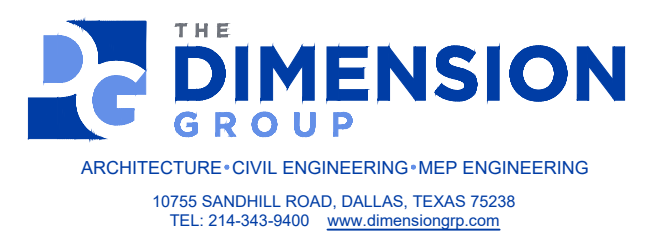

NOTES

- 1 DT DIGITAL PRE-SELL MENU BOARD LOCATION. SEE DETAILS ON SHEET AS2.1.
- 2 DT DIGITAL MENU BOARD LOCATION. SEE DETAILS ON SHEET AS2.1.
- 3 POPEYE'S RESTAURANT DRIVE THRU WINDOW LOCATION. SEE FLOOR PLAN ON SHEET A1 FOR ADDITIONAL INFORMATION.
- 4 6" STEEL PIPE BOLLARD AT PULL-UP WINDOW. SEE DETAIL 13/AS2.3, FLOOR PLAN A1 AND EXTERIOR ELEVATIONS AS SERIES.
- 5 10' PAVEMENT SETBACK
- 6 APPROXIMATE LOCATION OF GREASE INTERCEPTOR BELOW SITE PAVING. COORDINATE WITH PLUMBING & CIVIL DRAWINGS.
- 7 POPEYE'S DUMPSTER ENCLOSURE. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS. REFER TO ARCHITECTURAL SITE DETAILS AS2.2 FOR CONSTRUCTION.
- 8 SIDEWALK / SLAB. REFER TO CIVIL SITE PLAN DRAWINGS FOR LOCATION AND DIMENSIONS.
- 9 VEHICLE LOOP. REFER TO DETAIL 5/AS2.1.
- 10 ALL PATIO AND LANDSCAPE DESIGN BY CIVIL ENGINEER TO BE APPROVED BY POPEYE'S DESIGN.
- 11 PYLON / MONUMENT SIGN / SIGN BASE. REFER TO POPEYES SIGNAGE PACKAGE FOR DETAIL.
- 12 SITE SIGNAGE. REFER TO DETAIL 9/AS2.1 AND SIGNAGE PACKAGE BY POPEYES FOR DETAILS.
- 13 SPEAKER POST. REFER TO DETAILS ON SHEET AS2.1.
- 14 DRIVE THRU CANOPY. REFER TO POPEYES SIGNAGE DRAWINGS.
- 15 SITE PLAN LIGHTING. REFER TO CIVIL SITE PLAN DRAWINGS FOR LOCATION AND DIMENSIONS. REFER TO DETAIL 1/AS2.1.
- 16 HEIGHT RESTRICTION BAR. REFER TO POPEYES SIGNAGE DRAWINGS.
- 17 PEDESTRIAN WALKWAY. DESIGN BY CIVIL ENGINEER TO BE APPROVED BY POPEYE'S DESIGN.
- 18 PROPERTY LINE REFER TO CIVIL SITE PLAN DRAWINGS

GENERAL NOTES

ARCHITECTURAL SITE PLAN IS TO BE USED FOR GUIDELINE REFERENCE ONLY. ALL SITE SPECIFIC INFORMATION AND REQUIREMENTS IS TO BE COORDINATED WITH ARCHITECT, MECHANICAL/ELECTRICAL AND CIVIL ENGINEER OF RECORD. CIVIL ENGINEER/ARCHITECT TO PROVIDE POPEYE'S DESIGN COMPLETE CIVIL PACKAGE WITH LANDSCAPE PLAN FOR APPROVALS.

PYLON SIGN AT MAIN STREET. REFER TO LOCAL AUTHORITIES FOR PERMITS AND APPROVALS. DIGITAL MENU BOARDS AND PREVIEW BOARDS ARE REQUIRED FOR ALL SITES. *LED LOT LIGHTING IS REQUIRED ON ALL SITES*

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description
REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description
 PROJECT NORTH		
<small>THIS DRAWING IS OWNED BY OR LICENSED FOR USE BY POPEYE'S LOUISIANA KITCHEN (OR ITS AFFILIATED OR RELATED COMPANIES) AND MAY NOT BE REPRODUCED, USED, DOWNLOADED, DISSEMINATED, PUBLISHED OR TRANSFERRED IN ANY FORM OR BY ANY MEANS, EXCEPT WITH THE PRIOR WRITTEN CONSENT OF POPEYE'S LOUISIANA KITCHEN. COPYRIGHT INFRINGEMENT IS A VIOLATION OF FEDERAL LAW SUBJECT TO CRIMINAL AND CIVIL PENALTIES.</small>		
<small>THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYE'S LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED BY POPEYE'S LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION."</small>		
		11.10.2023
Company Logo		
 <small>ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING 10755 SANDHILL ROAD, DALLAS, TEXAS 75238 TEL: 214-343-9400 www.dimensiongrp.com</small>		
Project		
		
Store Type		
US 2112 PROTOTYPE 2112-21		
Location		
1517 NC 24-87 CAMERON, NC		
Drawing Title		
ARCHITECTURAL SITE PLAN		
Drawn	Checked	
SH	AL	
Scale	Date	
AS NOTED	JUNE 2023	
Project No.	Drawing No.	
C22-129	AS1.1	

1 SITE PLAN
AS1.1 SCALE: 3/32" = 1'-0"

HWY 24

POPEYE'S LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

CRITICAL NOTES

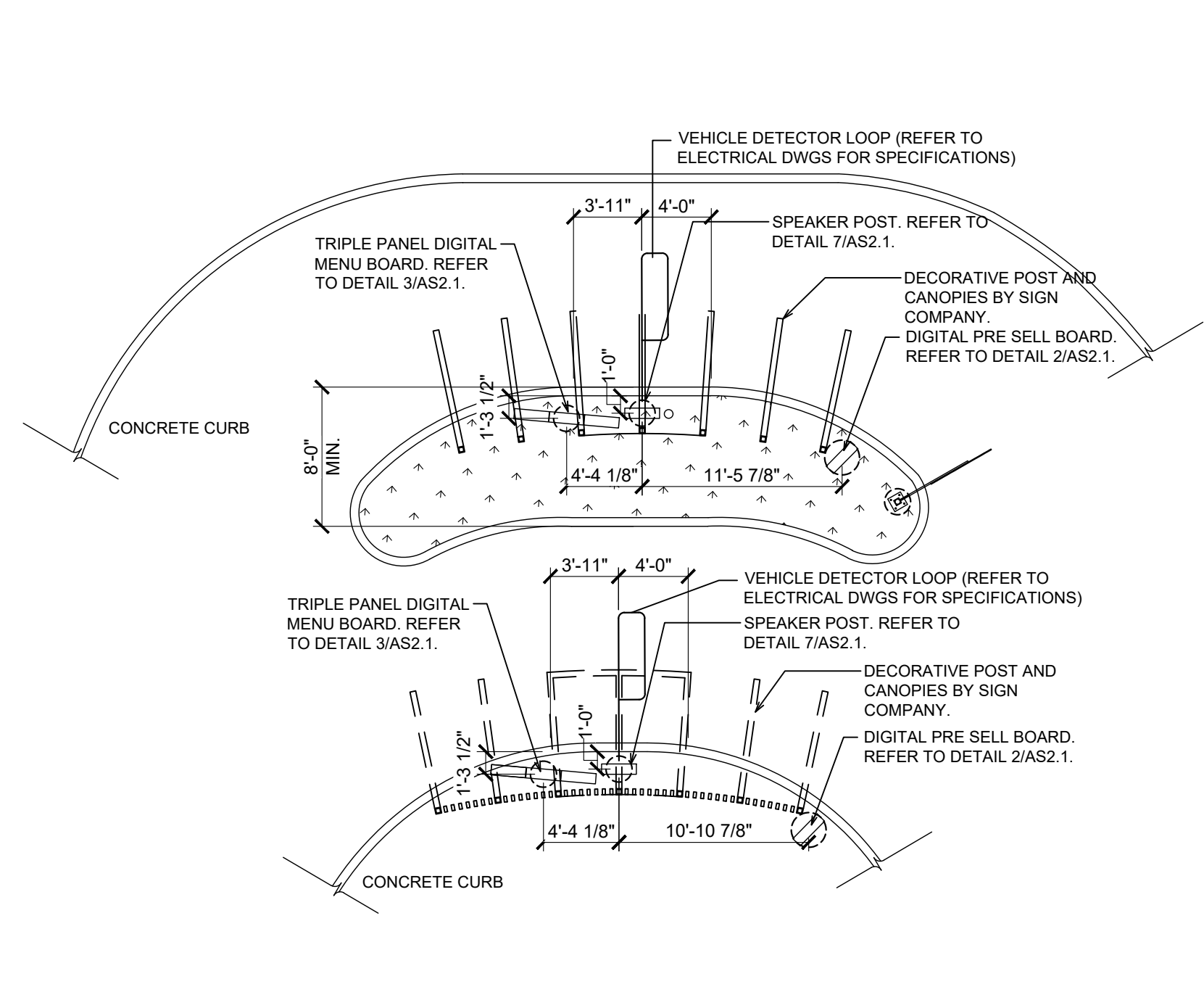
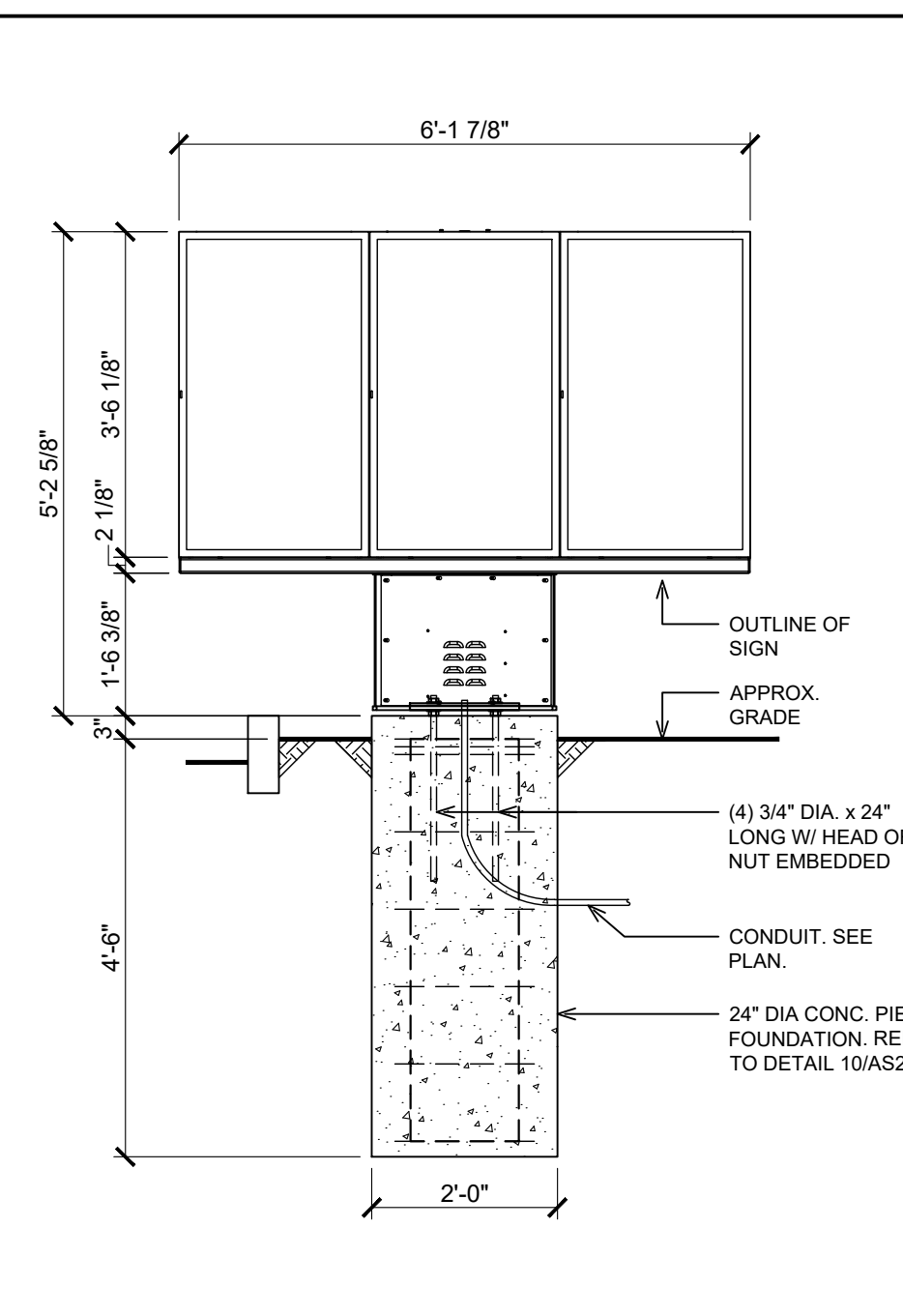
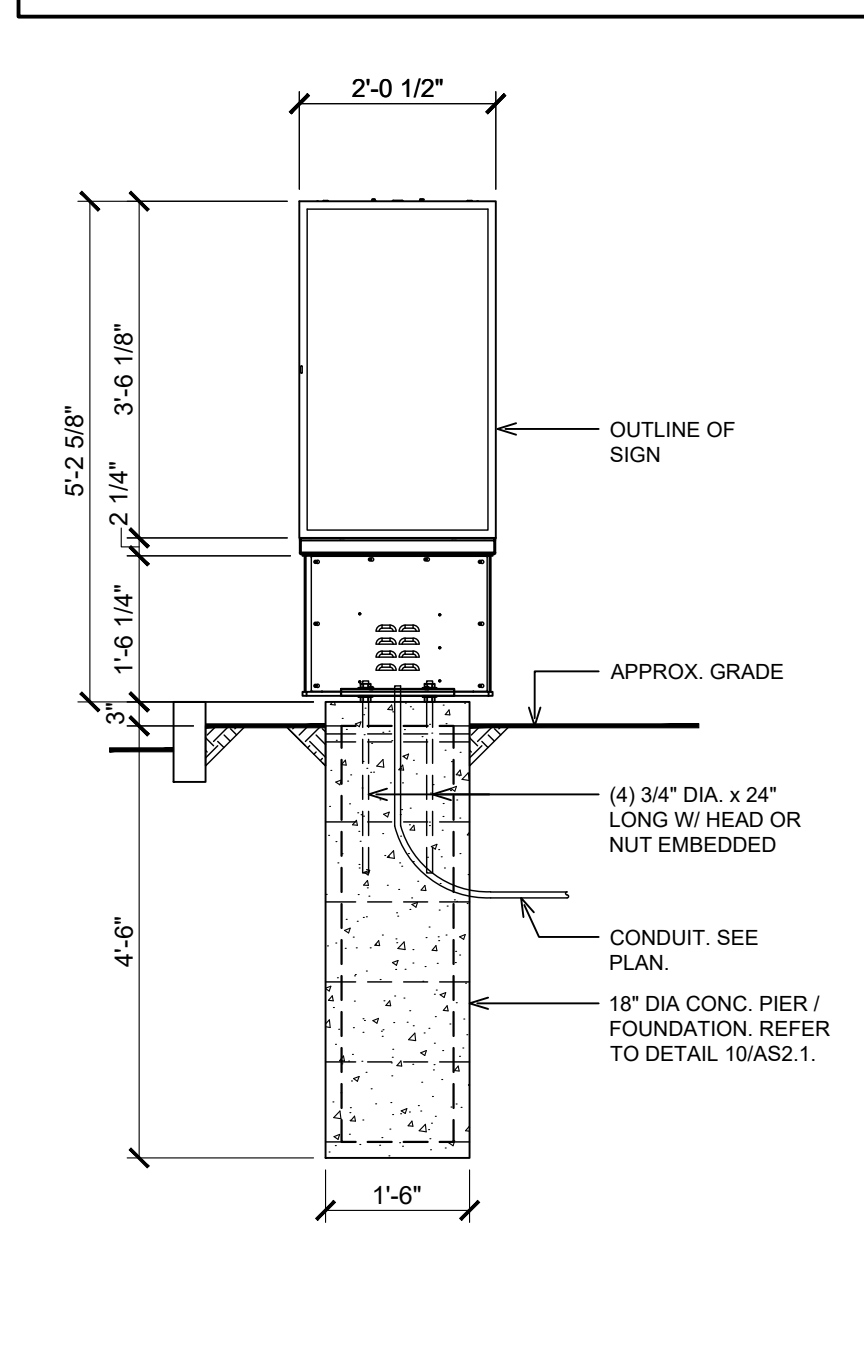
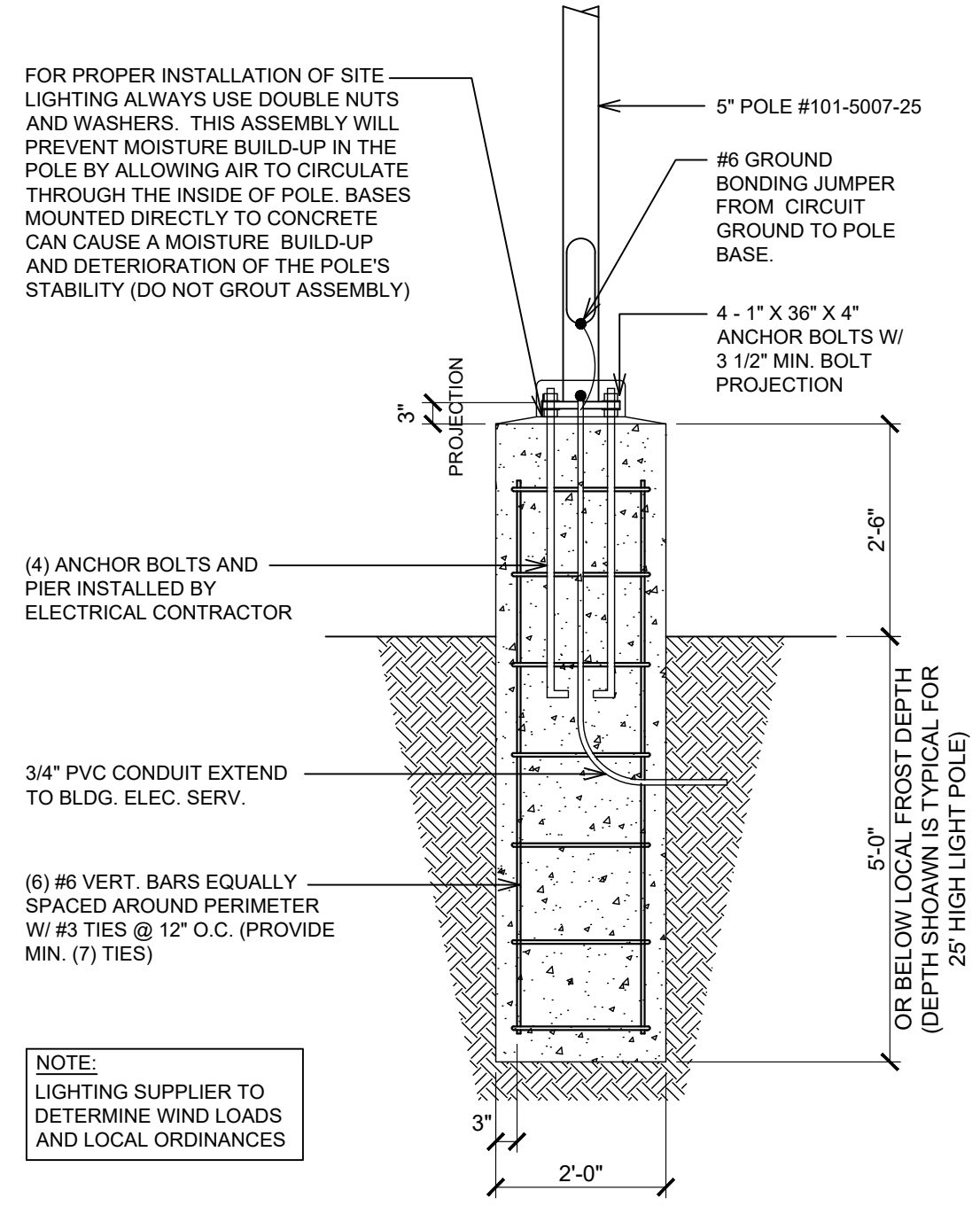
ODMB, SPEAKER POST AND PRESELL MENU BOARD ALL PROVIDED BY OWNER. SHIPPED TO SITE FROM VENDOR TO BE ORDERED 12 WEEKS AHEAD OF INSTALL.

INSTALLED AND SCHEDULED BY OWNER / VENDOR. INSTALL TO BE SCHEDULE A MIN OF 4 WEEKS BEFORE DESIRED DATE

FOUNDATION, DATA AND ELECTRICAL BY CIVIL/GC.

ANCHOR BOLTS TO BE IN AN 8X8 PATTERN. INSTALL BY GC. TO BE COMPLETED PRIOR TO HAVING BW ON SITE

THESE DRAWINGS ARE INTENDED TO BE REVIEWED IN CONJUNCTION WITH THE ODMB INSTALL DETAILS. YOU CANNOT RELY ON THESE DRAWINGS ALONE FOR A SUCCESSFUL INSTALLATION

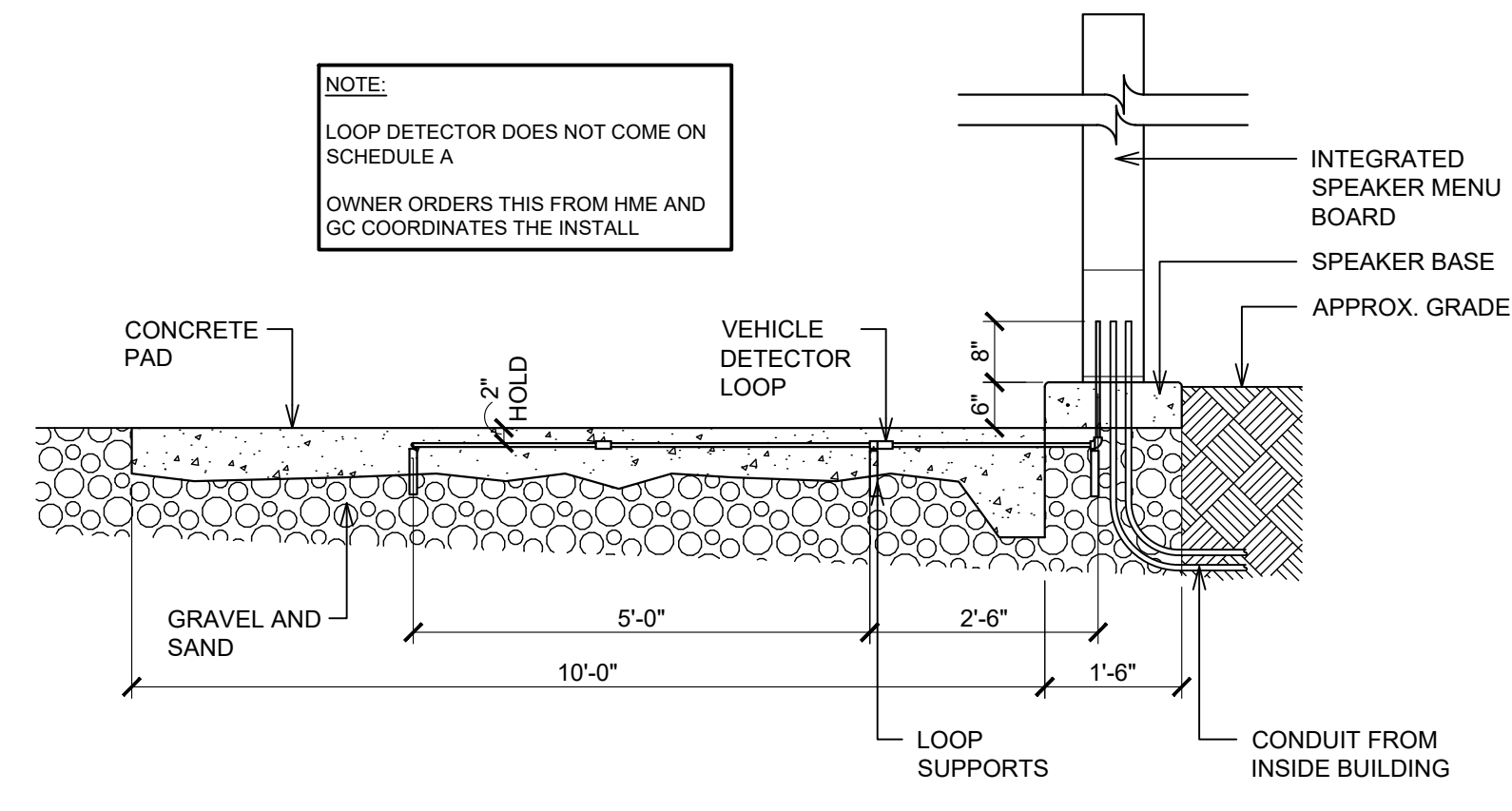


1 EXTERIOR POLE LIGHTS
AS2.1 SCALE: 1/2" = 1'-0"

2 DT DIGITAL PRE-SELL MENU BOARD
AS2.1 SCALE: 1/2" = 1'-0"

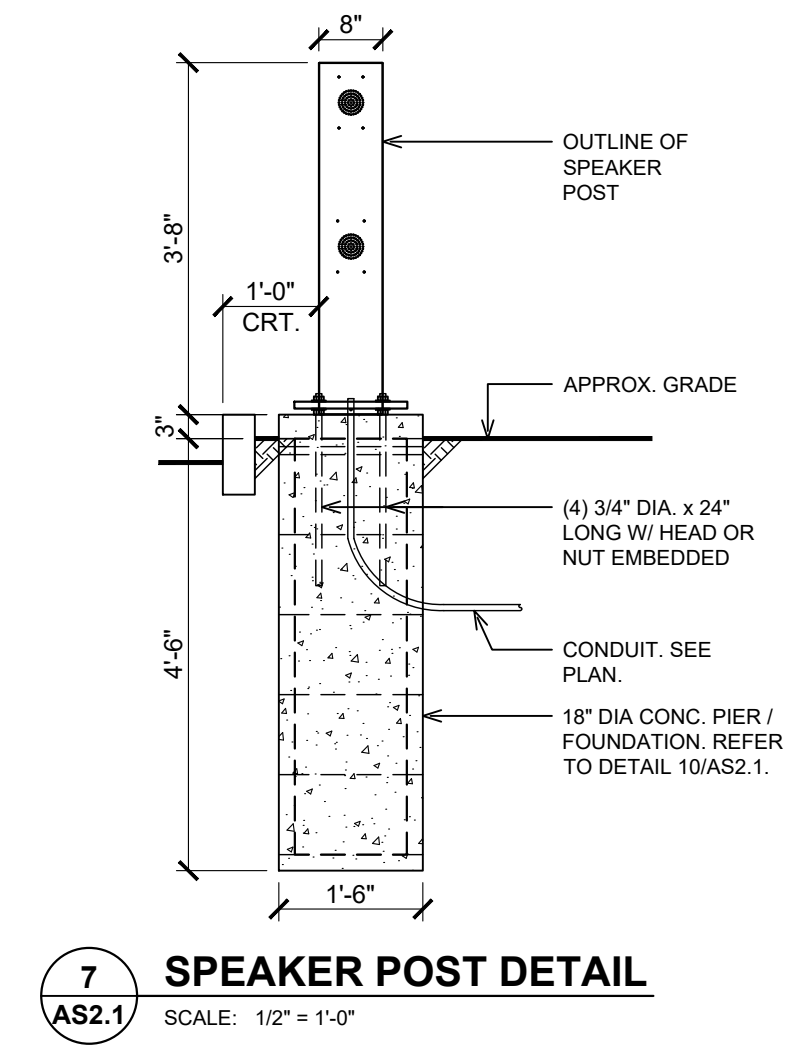
3 DT DIGITAL MENU BOARD
AS2.1 SCALE: 1/2" = 1'-0"

4 TYPICAL DOUBLE DT MENU BOARD LAYOUT
AS2.1 SCALE: 1/8" = 1'-0"

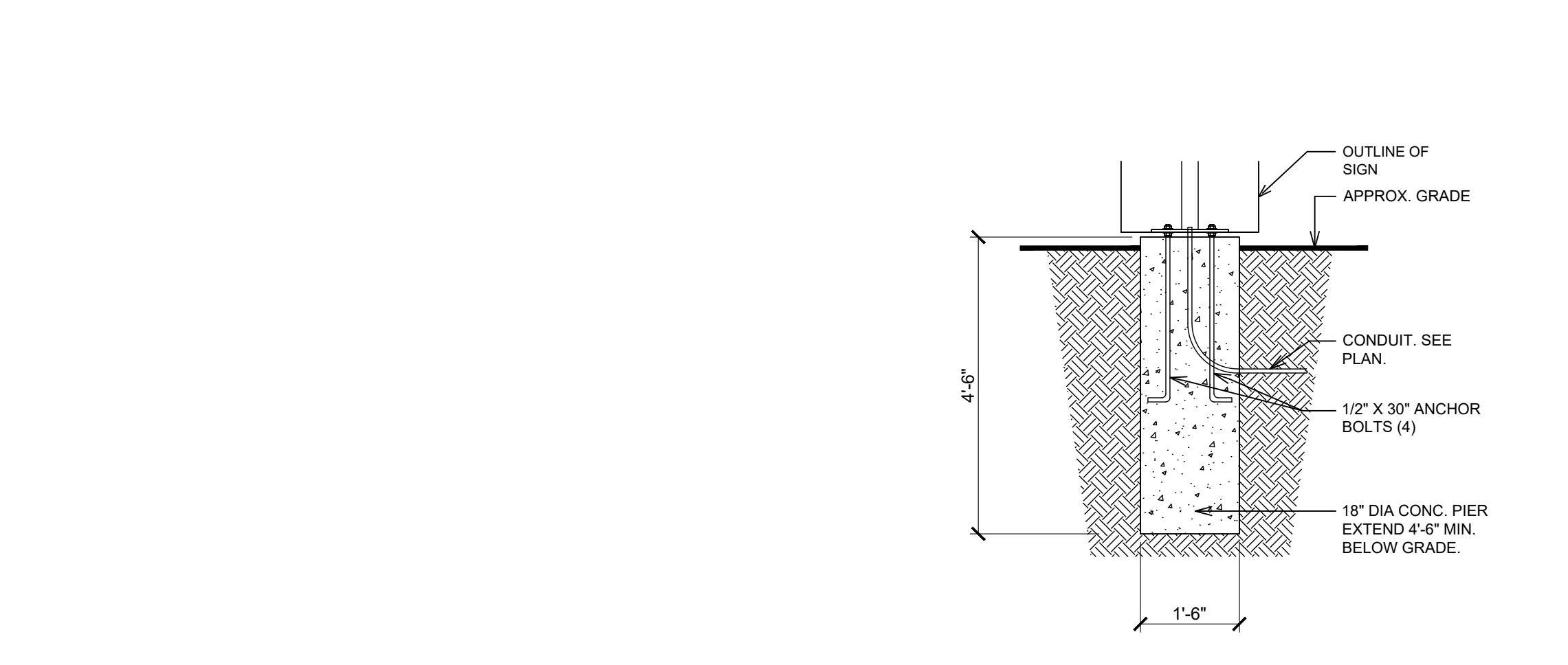


5 VEHICLE DETECTOR LOOP SECTION
AS2.1 SCALE: 1/2" = 1'-0"

6 N/A
AS2.1



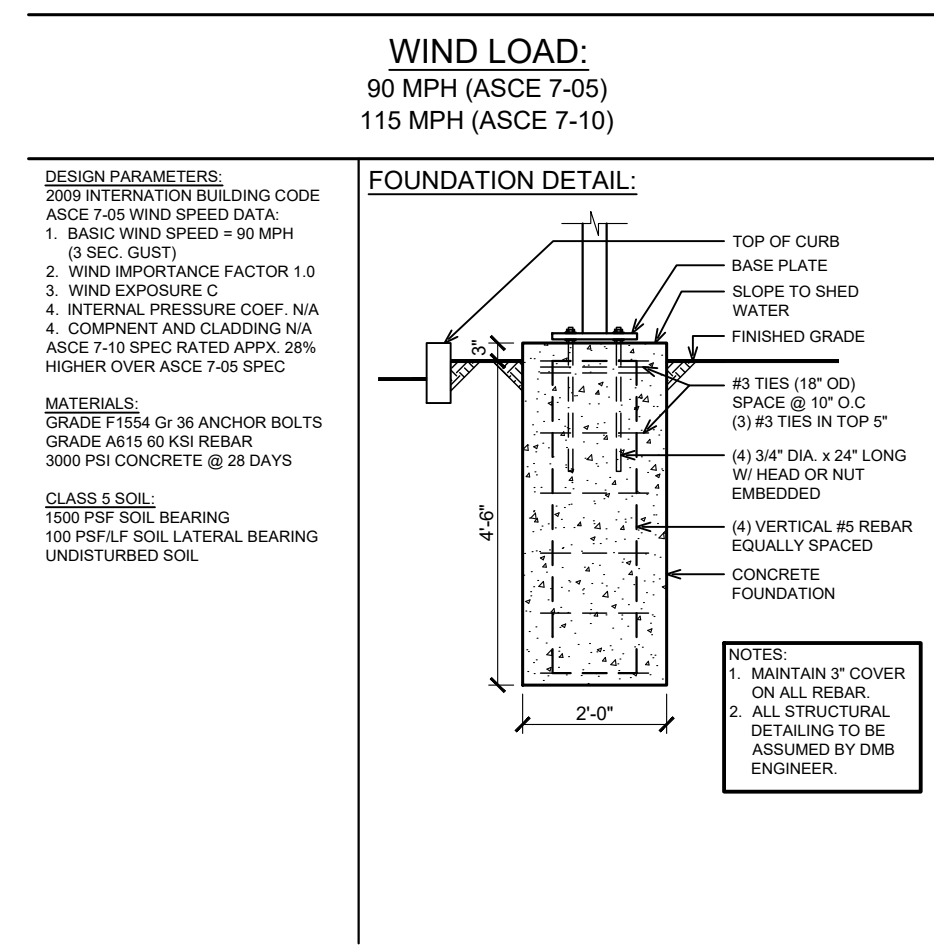
7 SPEAKER POST DETAIL
AS2.1 SCALE: 1/2" = 1'-0"



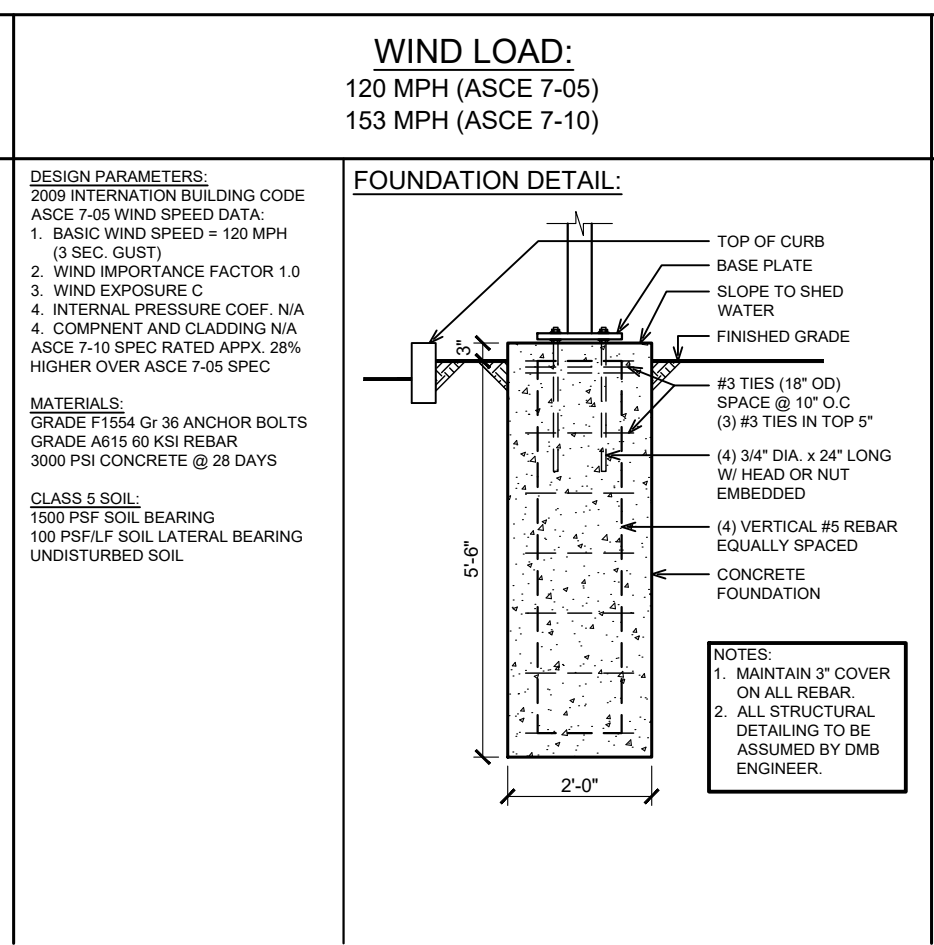
8 N/A
AS2.1

9 SIGNAGE BOARD DETAIL
AS2.1 SCALE: 1/2" = 1'-0"

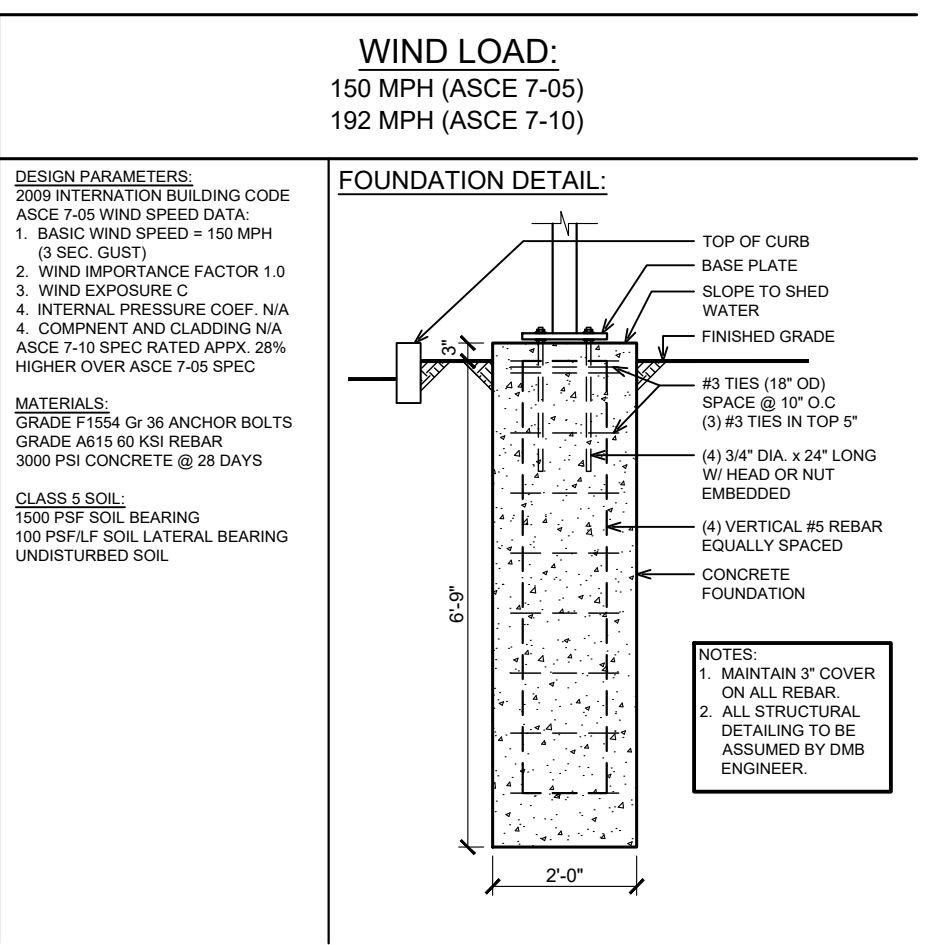
SOIL CLASS 5



10 FOUNDATION DETAIL @ DIGITAL MENU BOARD
AS2.1 SCALE: 1/2" = 1'-0"



WIND LOAD:
120 MPH (ASCE 7-05)
153 MPH (ASCE 7-10)



WIND LOAD:
150 MPH (ASCE 7-05)
192 MPH (ASCE 7-10)

NOTES:

- SIGNAGE VENDOR TO DETERMINE NUMBER OF DIRECTIONAL SIGNS AND LOCATIONS (SITE VERIFY)
- NOTES: DETAILS FOR REFERENCE ONLY. COORDINATE WITH SITE PLAN DRAWING FOR EXACT REQUIREMENTS.

GENERAL NOTES

- ALL SIGNS SHALL BE ERRECTED IN ACCORDANCE WITH ALL LOCAL CODES AND SOIL CONDITIONS.
- DESIGNS ARE PER 15 PSF WIND LOADS (VERIFY LOCAL WIND AND SOIL CONDITIONS).
- ALL PAINTED PAVEMENT MARKERS ARE TO BE SOLID YELLOW AND FURNISHED BY GENERAL CONTRACTOR.
- WHEN UNABLE TO VIEW CARS PLACING ORDERS DIRECTLY FROM PICK-UP WINDOW A 24" CONVEX MIRROR SHALL BE PLACED IN AN APPROPRIATE LOCATION TO VIEW CUSTOMERS ORDER AT STATION

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TEL: 214-343-9400 www.dimensiongrp.com

Project

POPEYES

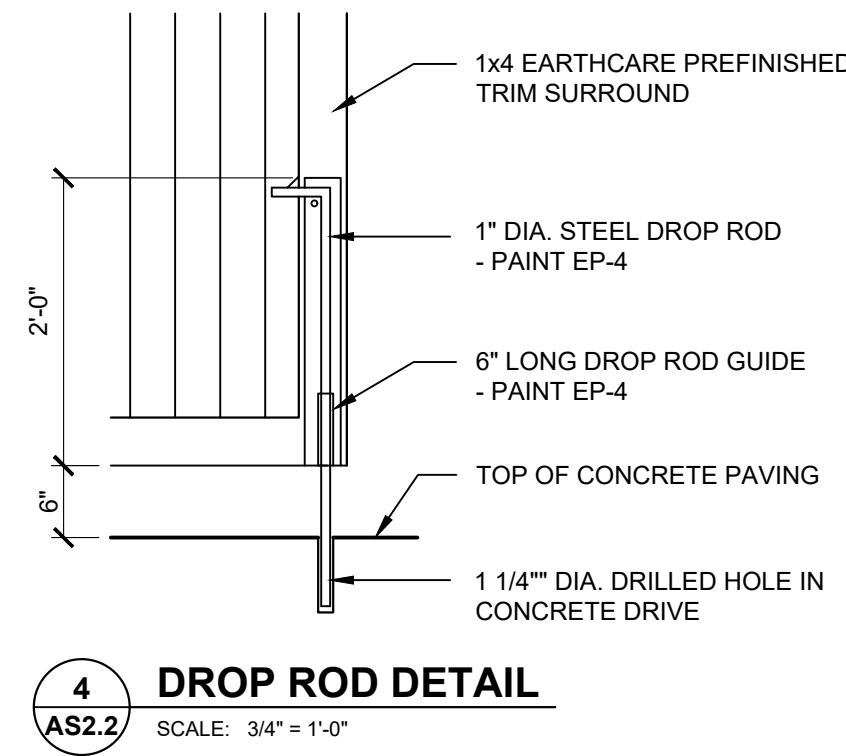
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

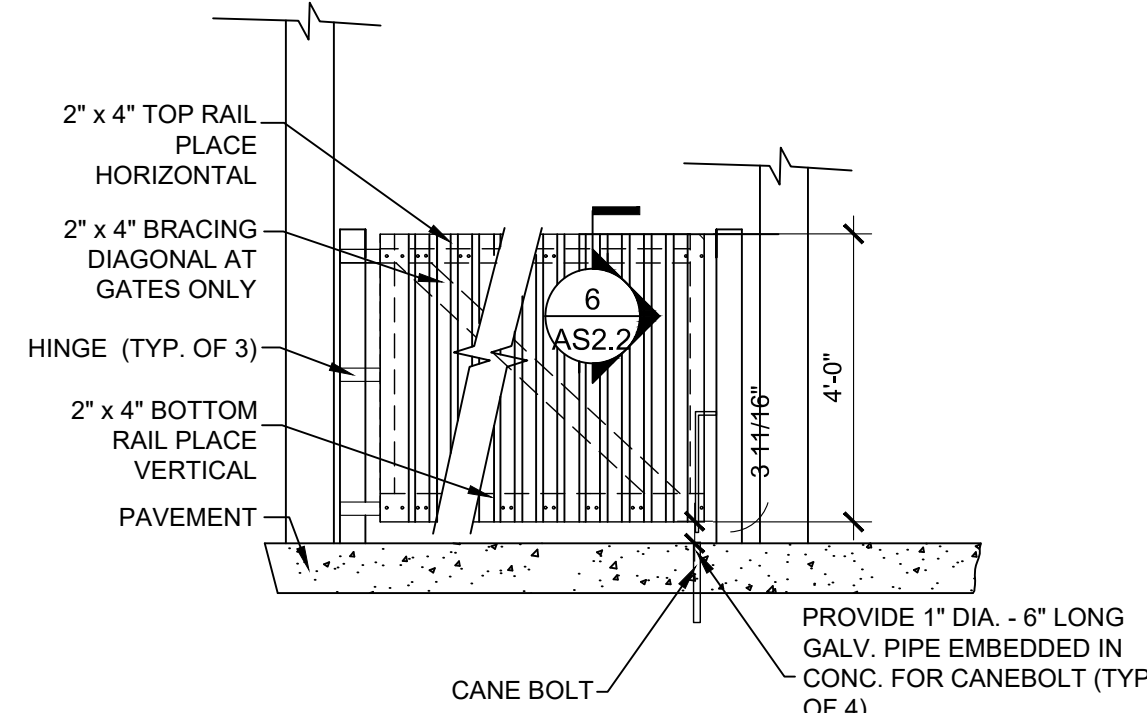
Drawing Title
MENU SIGN DETAILS
SINGLE DOUBLE
DRIVE-THRU

Drawn	SH	Checked	AL
Scale	AS NOTED	Date	JUNE 2023
Project No.	C22-129	Drawing No.	AS2.1

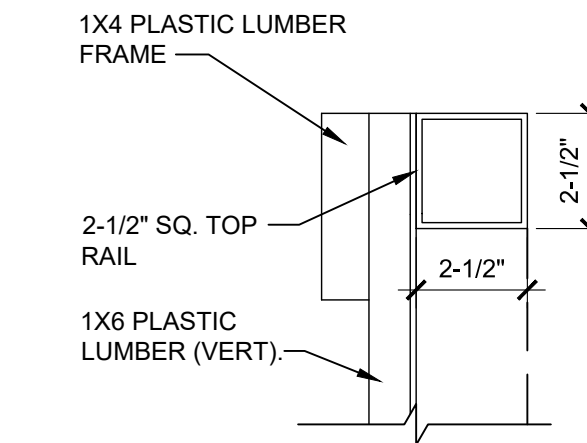
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



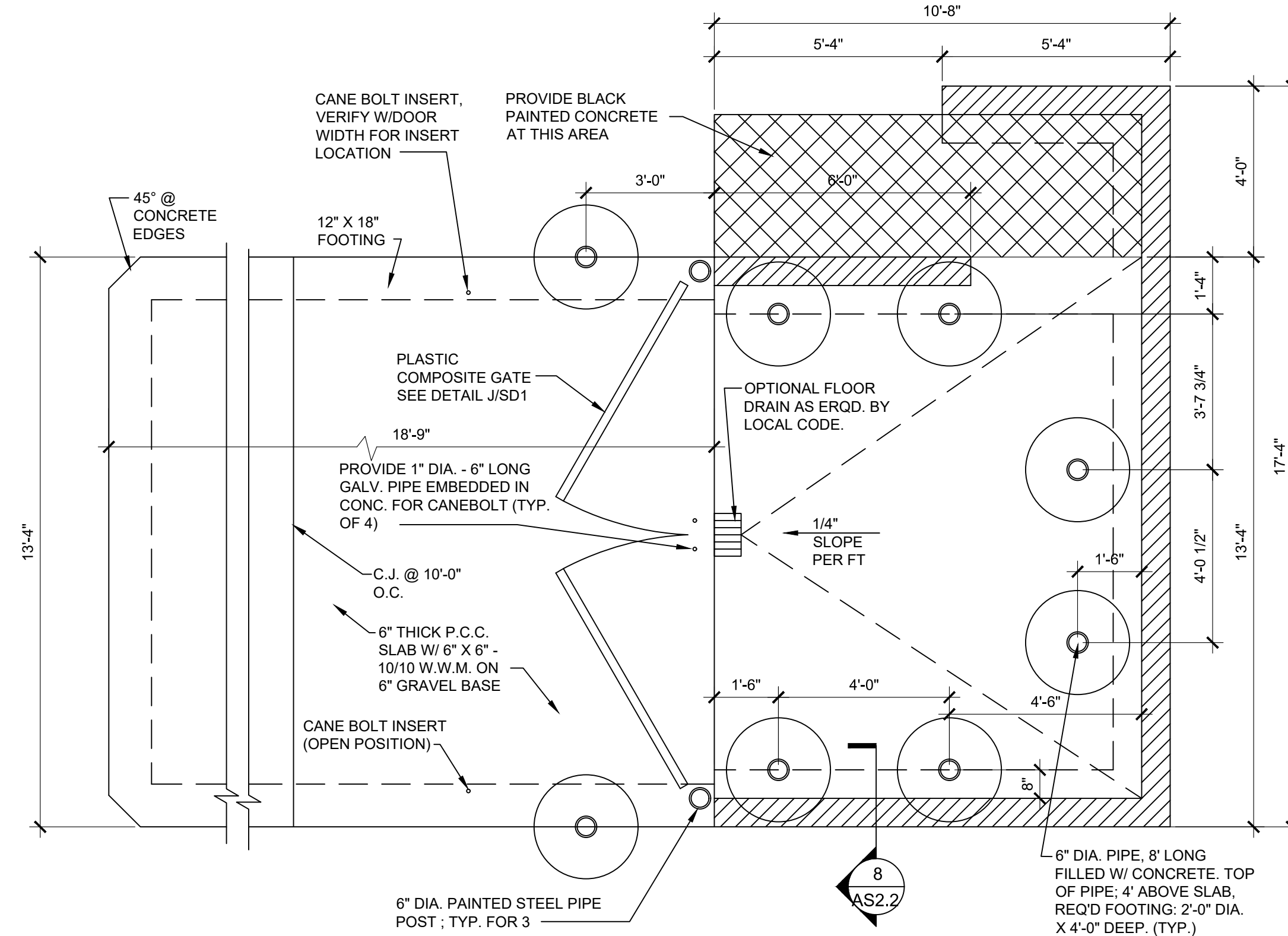
4 DROP ROD DETAIL
SCALE: 3/4" = 1'-0"



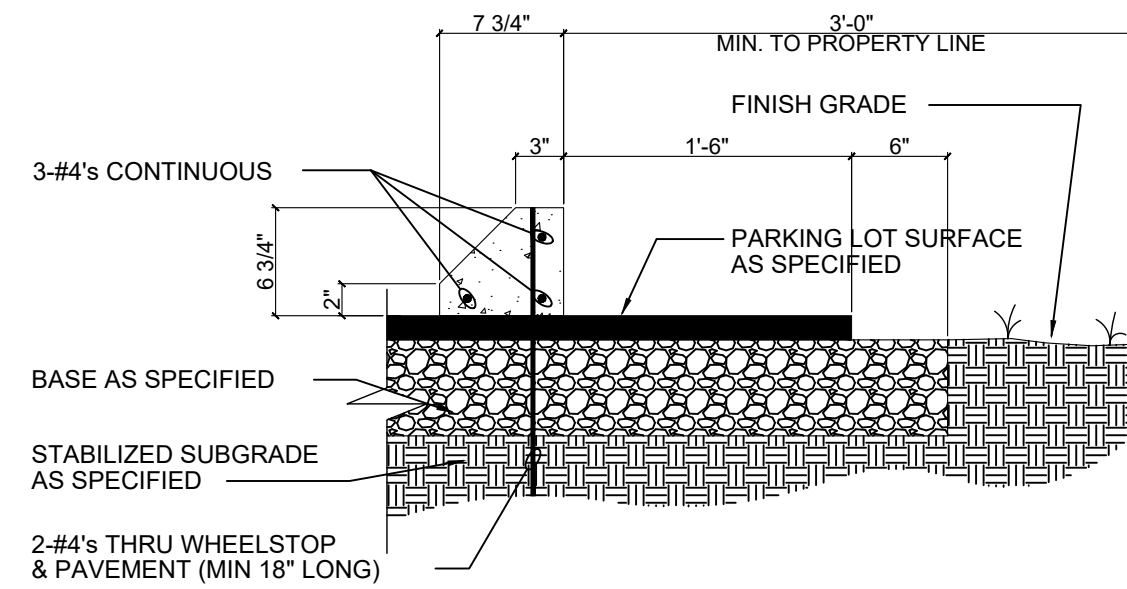
5 GATE DETAIL AT REAR ENCLOSURE
SCALE: 3/8" = 1'-0"



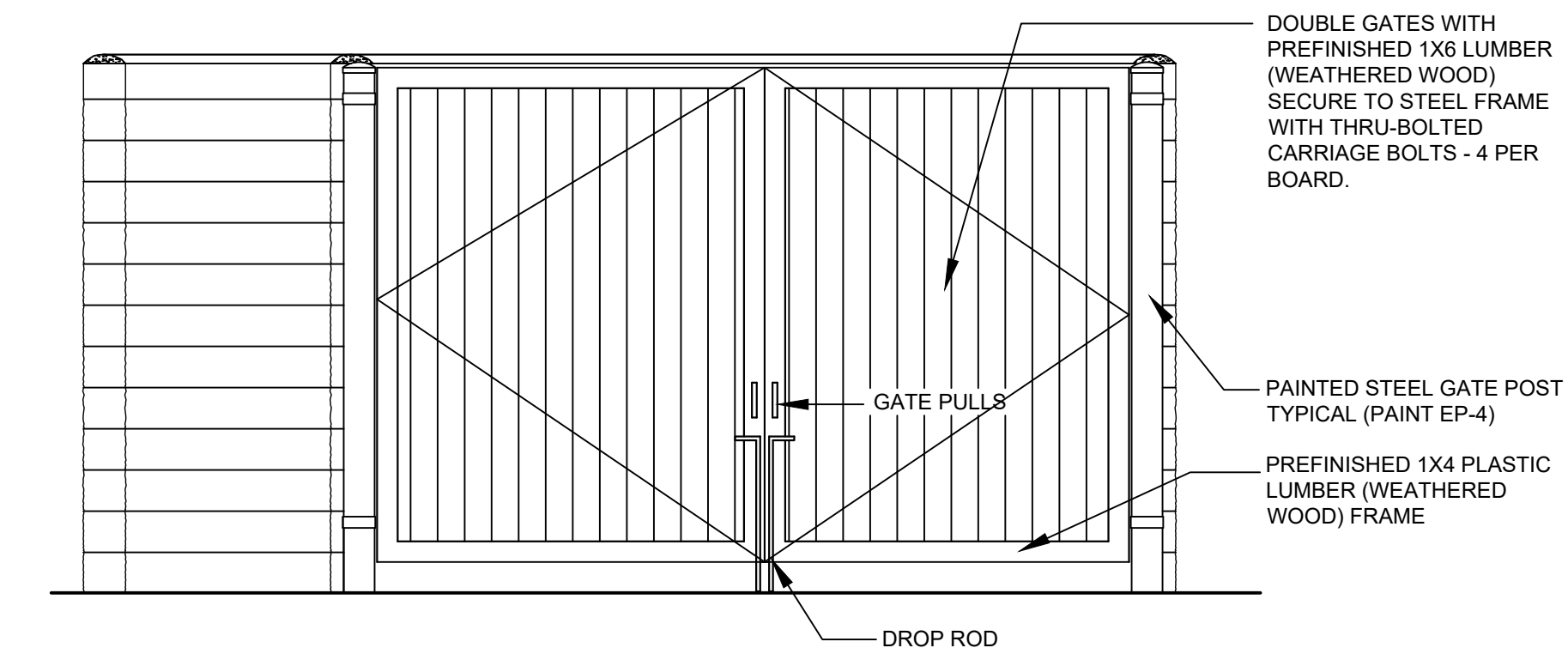
6 FLASHING DETAIL
SCALE: 3/8" = 1'-0"



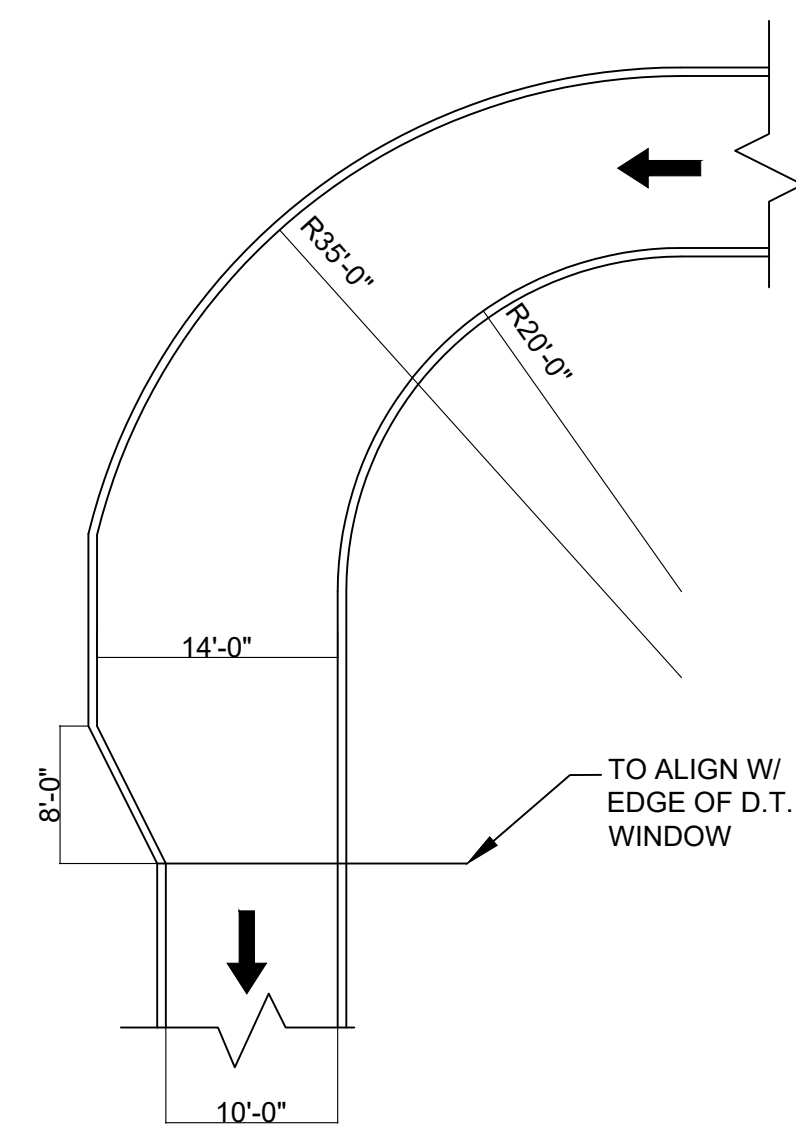
1 STANDARD DUMPSTER ENCLOSURE
SCALE: 3/8" = 1'-0"



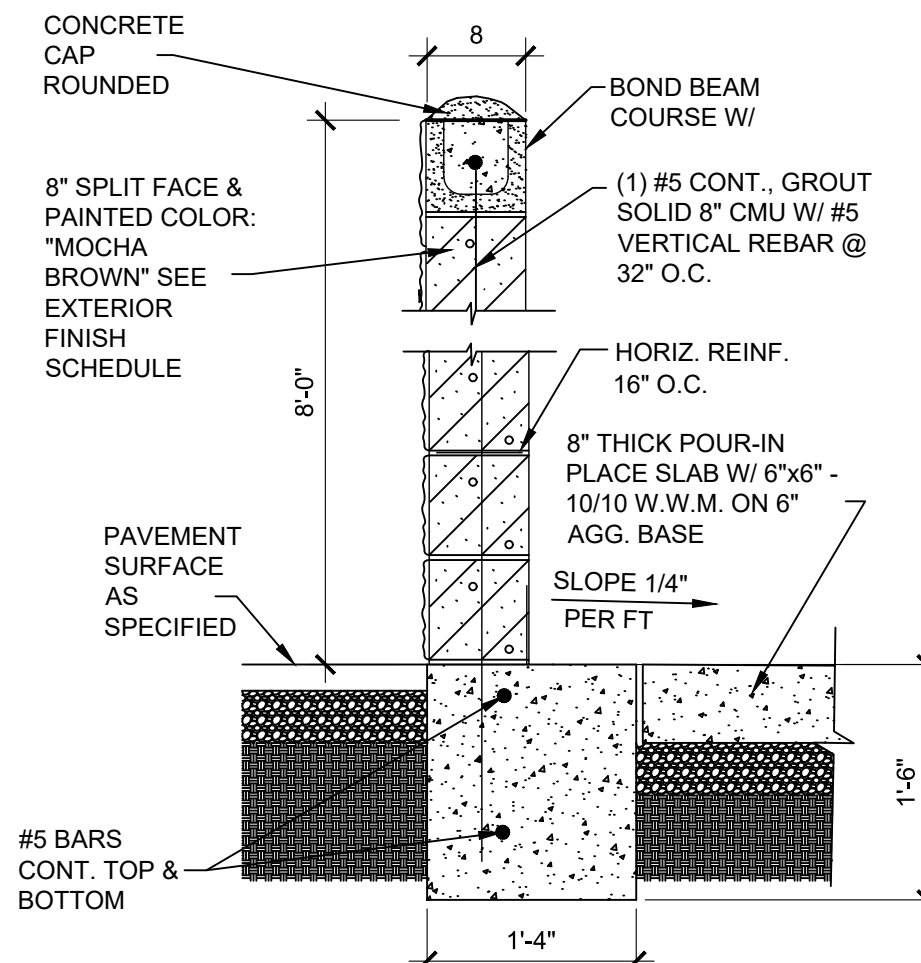
7 WHEELSTOP (PRECAST)
SCALE: 1" = 1'-0"



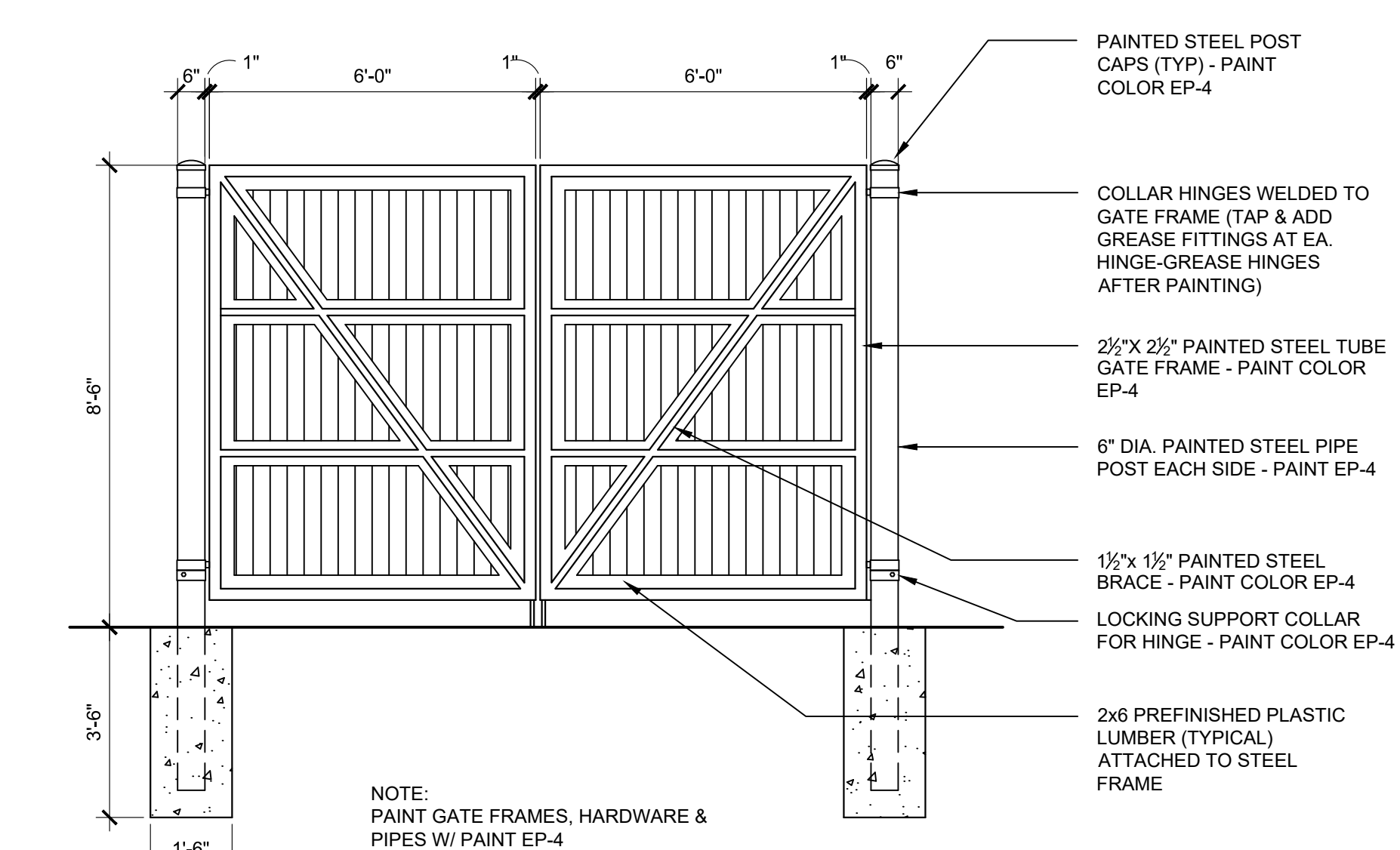
2 DUMPSTER ENCLOSURE & GATE EXT. ELEV.
SCALE: 3/8" = 1'-0"



9 DT W/ OUT BYPASS LANE
SCALE: NTS



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



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

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

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11.10.2023

Company Logo

Project

Store Type

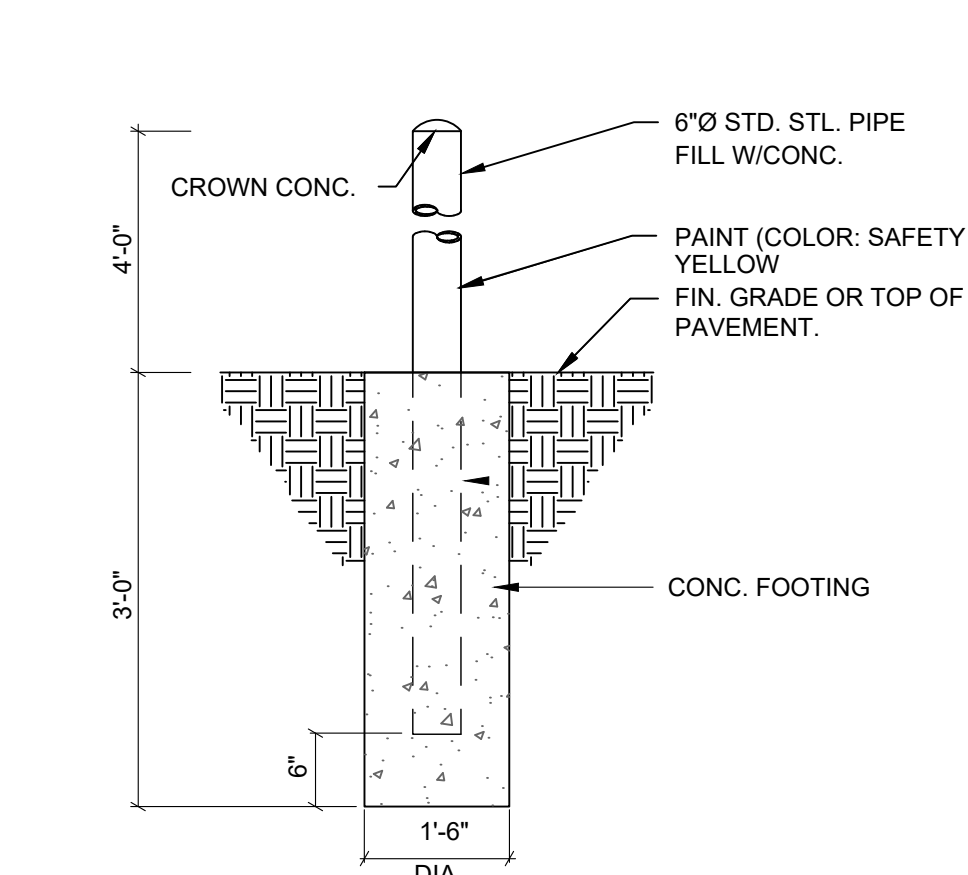
US 2112 PROTOTYPE
2112-21

Location

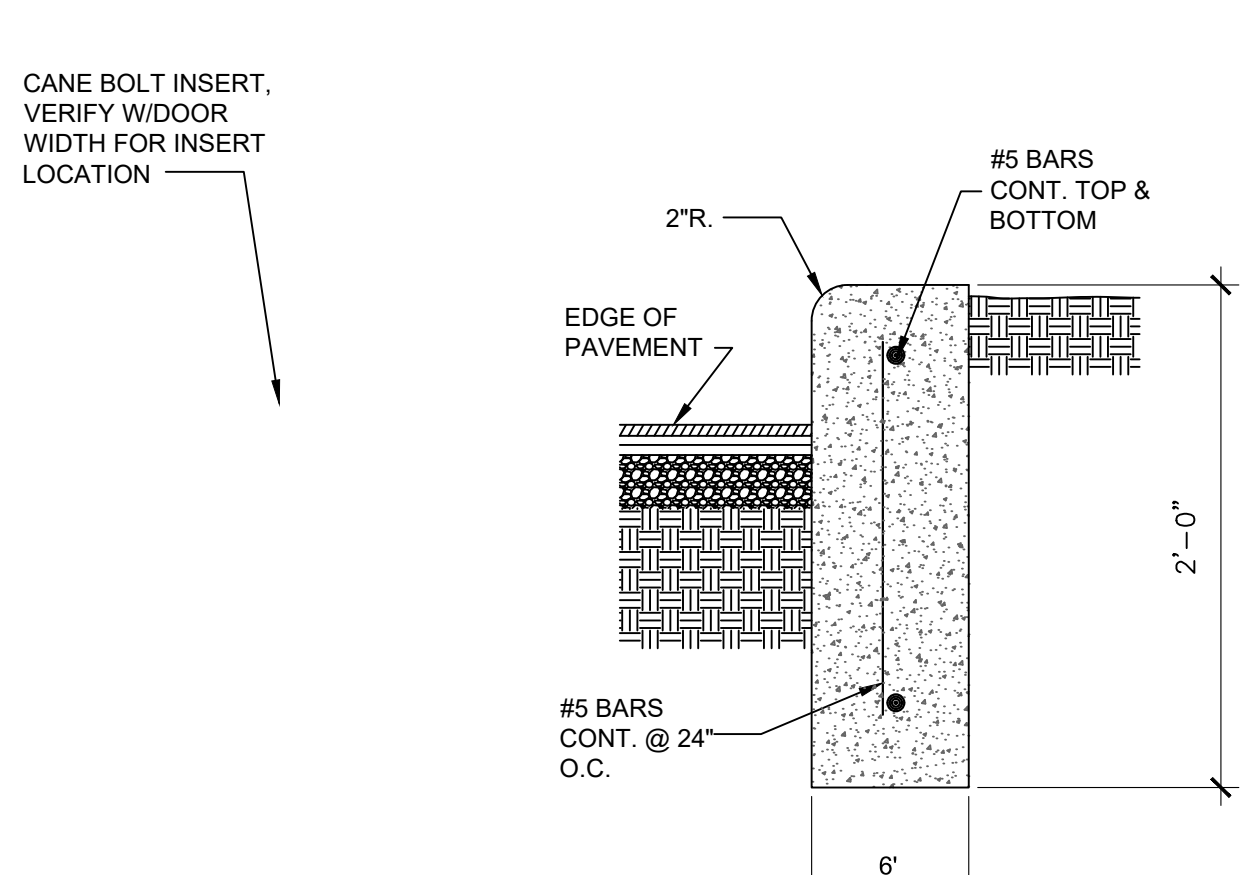
1517 NC 24-87
CAMERON, NC

Drawing Title	
SITE DETAILS - TRASH ENCLOSURE WOOD	
Drawn	Checked
SH	AL
Scale	Date
AS NOTED	JUNE 2023
Project No.	Drawing No.
C22-129	AS2.2

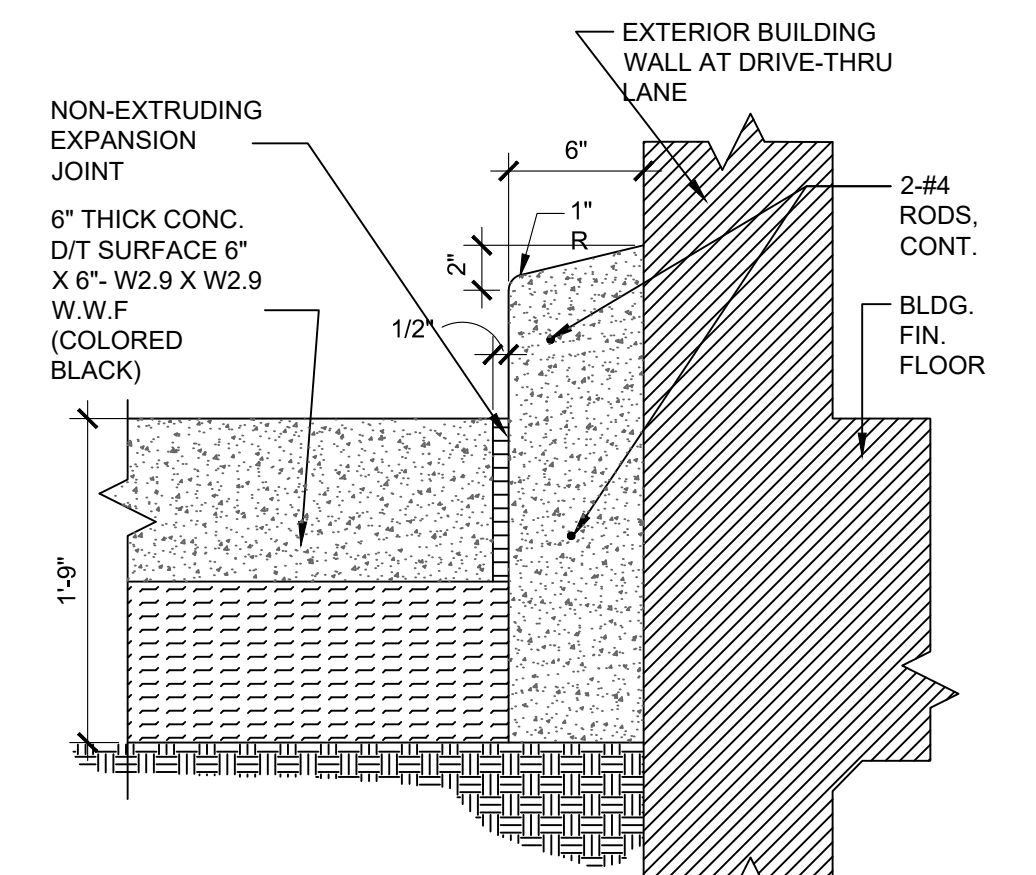
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



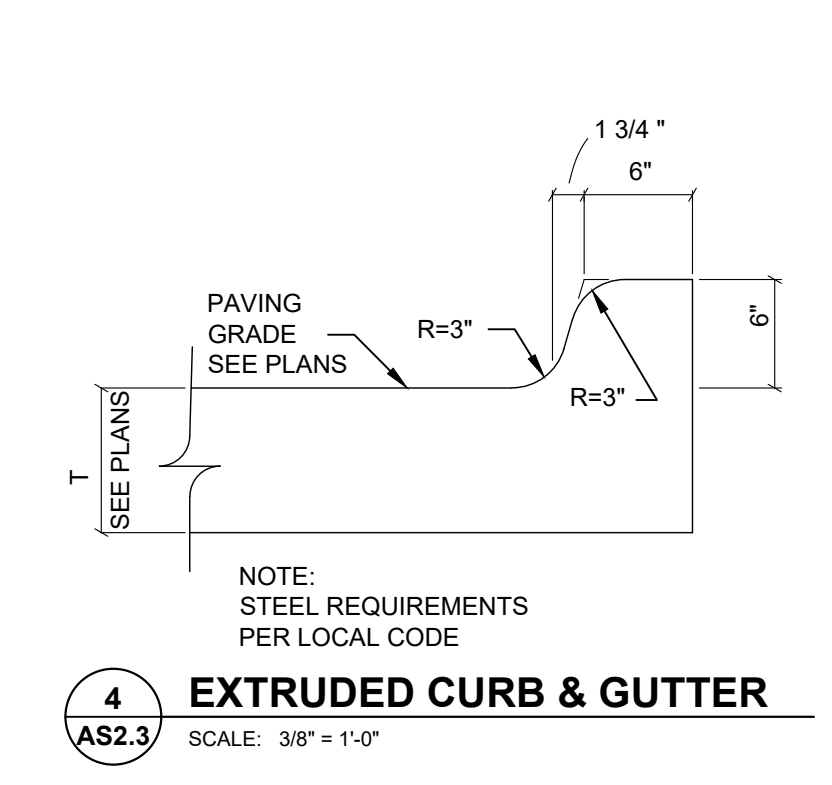
13 BOLLARD DETAIL
AS2.3 SCALE: 3/8" = 1'-0"



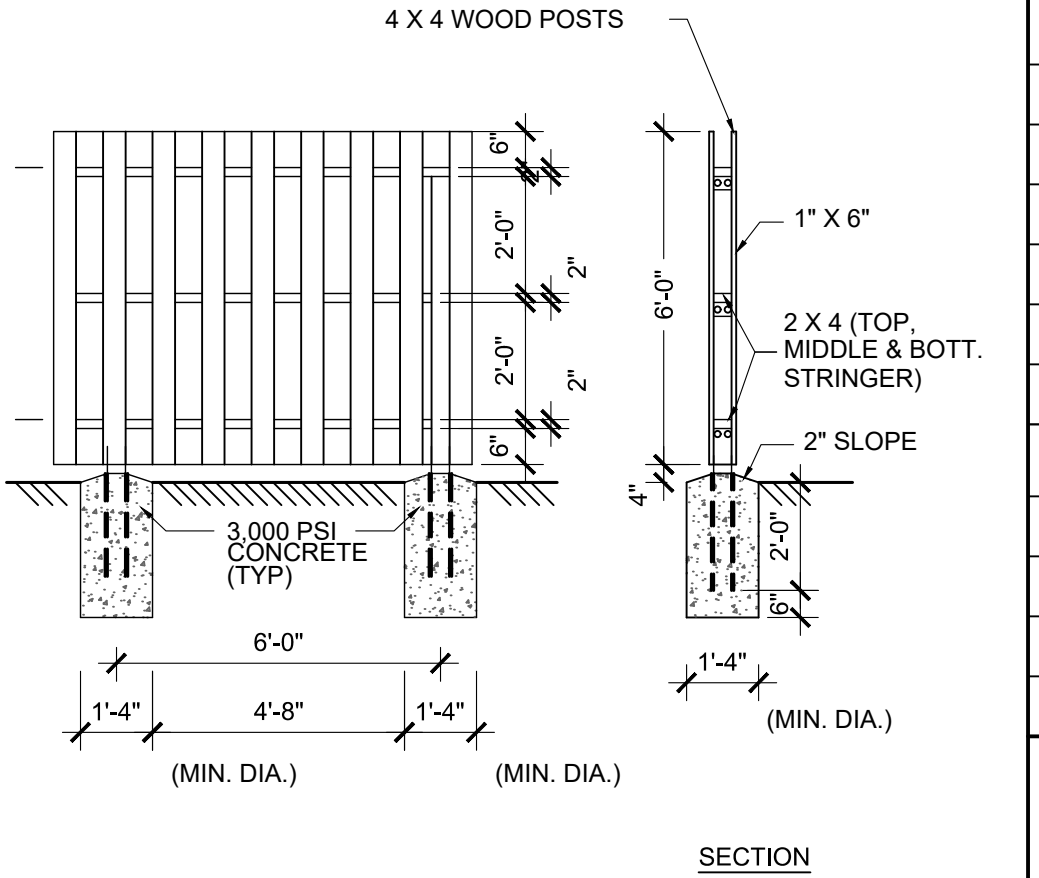
11 CURB DETAIL
AS2.3 SCALE: 3/8" = 1'-0"



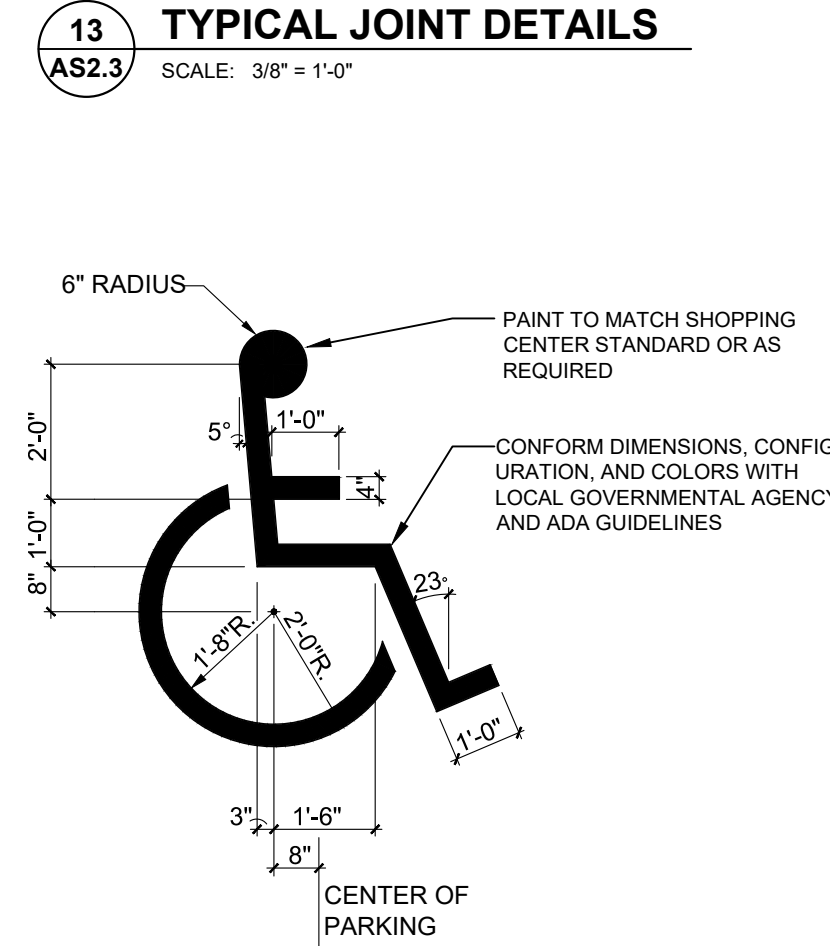
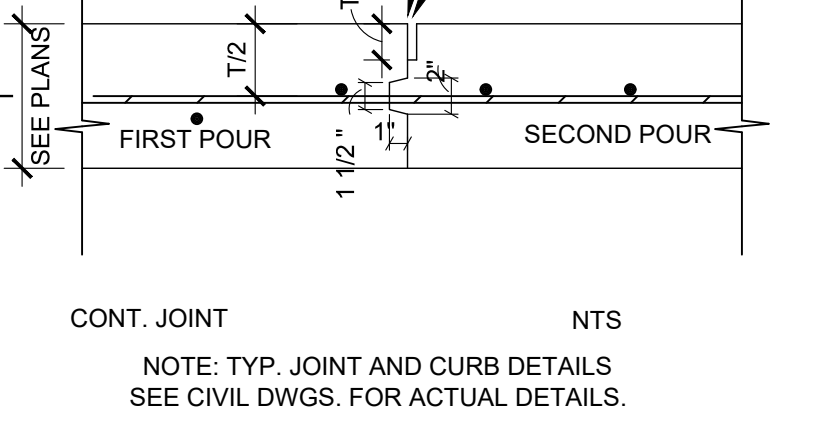
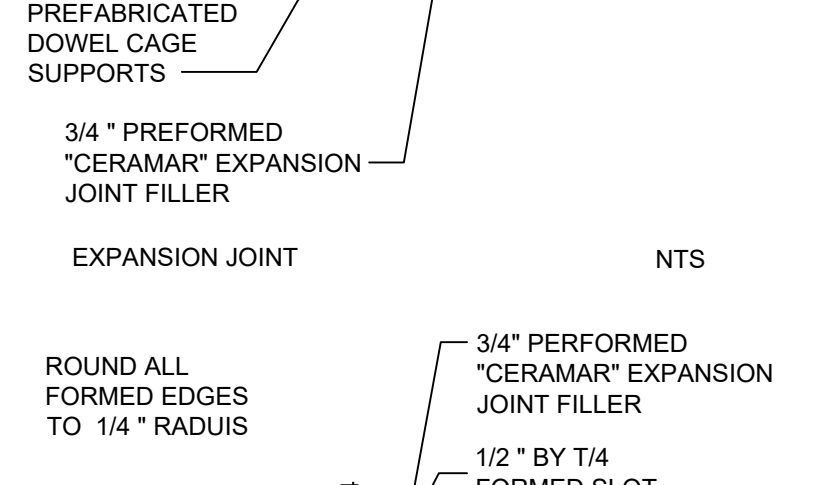
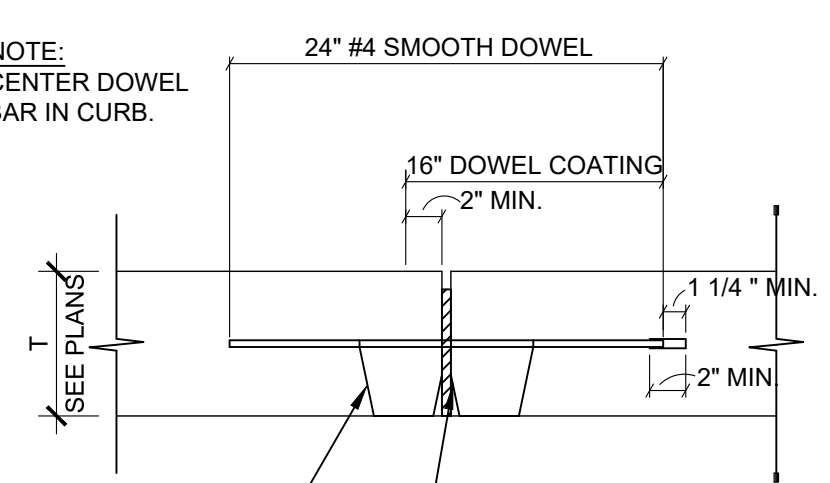
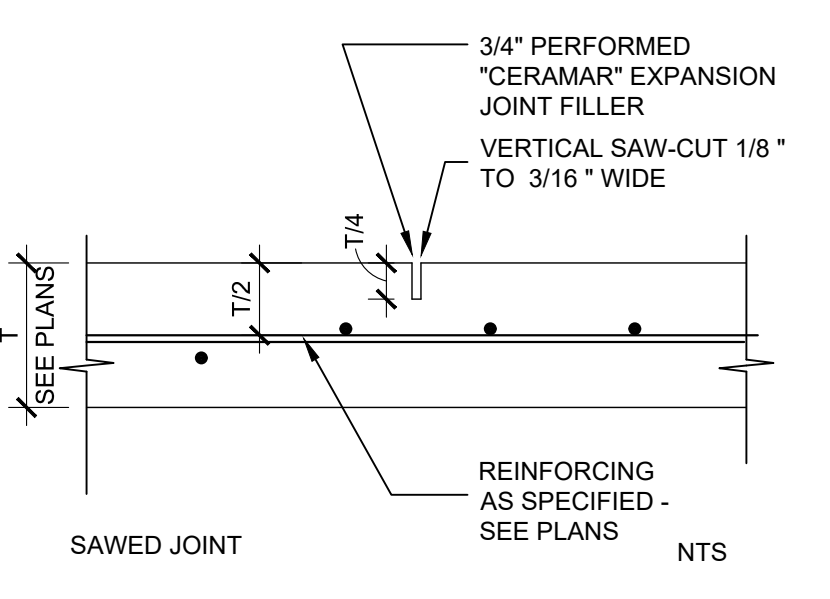
5 6" BARRIER CURB @ DRIVE-THRU WINDOW
AS2.3 SCALE: 3/8" = 1'-0"



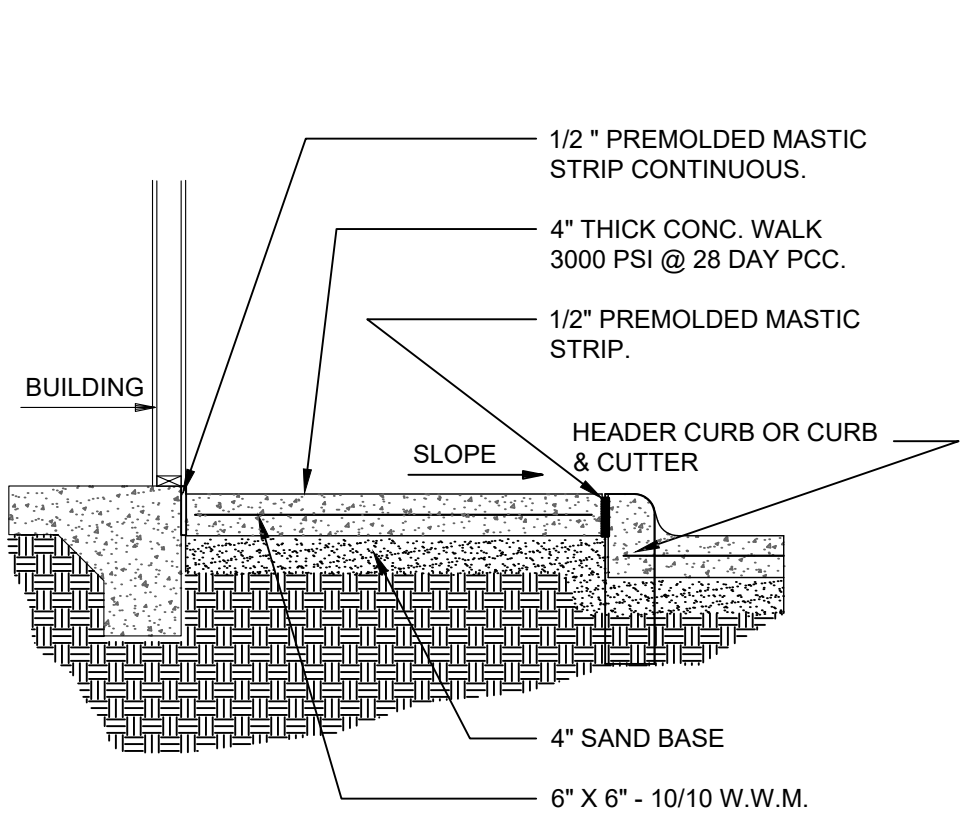
4 EXTRUDED CURB & GUTTER
AS2.3 SCALE: 3/8" = 1'-0"



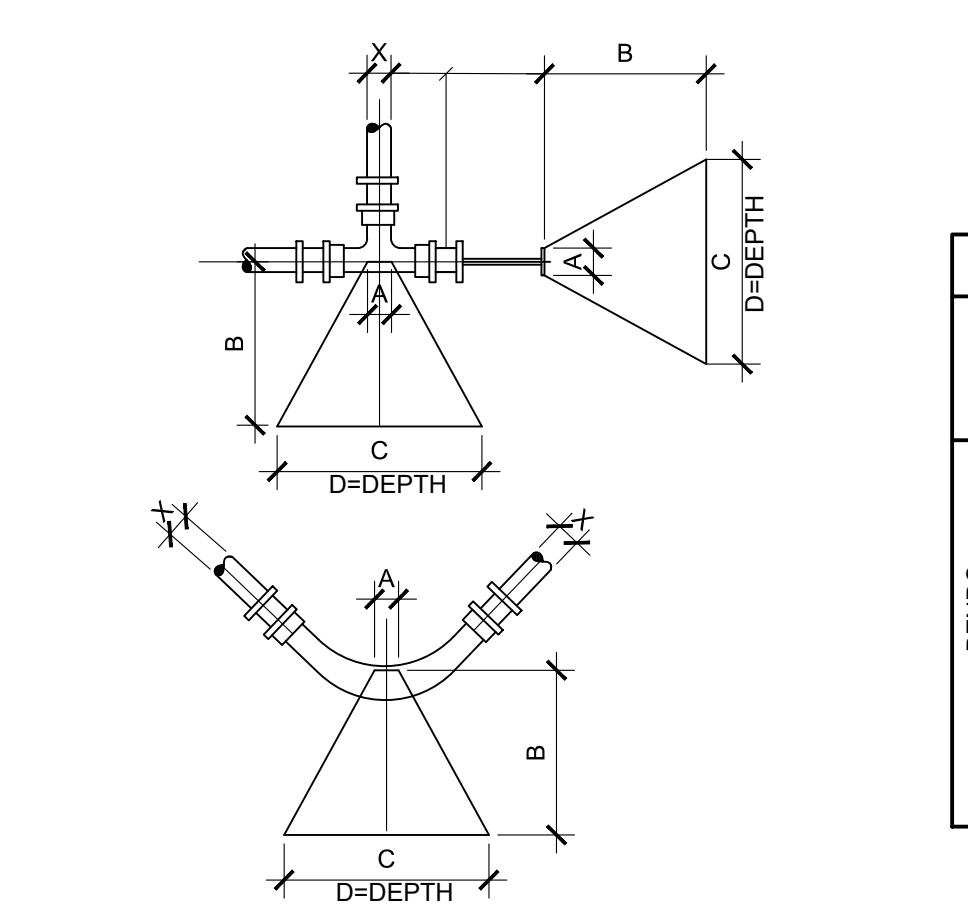
1 SHADOW BOX WOOD FENCE
AS2.3 SCALE: 3/8" = 1'-0"



12 HANDICAP SYMBOL
AS2.3 SCALE: 3/8" = 1'-0"



9 SIDEWALK DETAIL
AS2.3 SCALE: 3/8" = 1'-0"

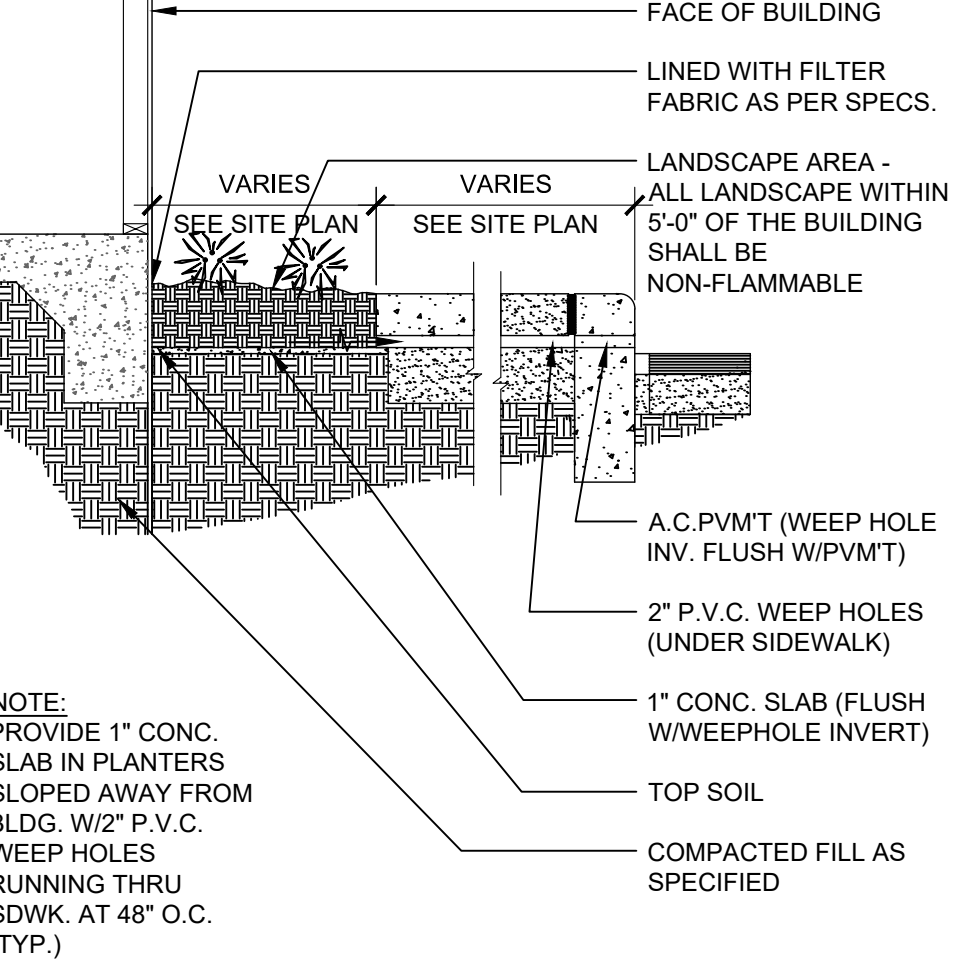


10 THRUST BLOCKS
AS2.3 SCALE: 3/8" = 1'-0"

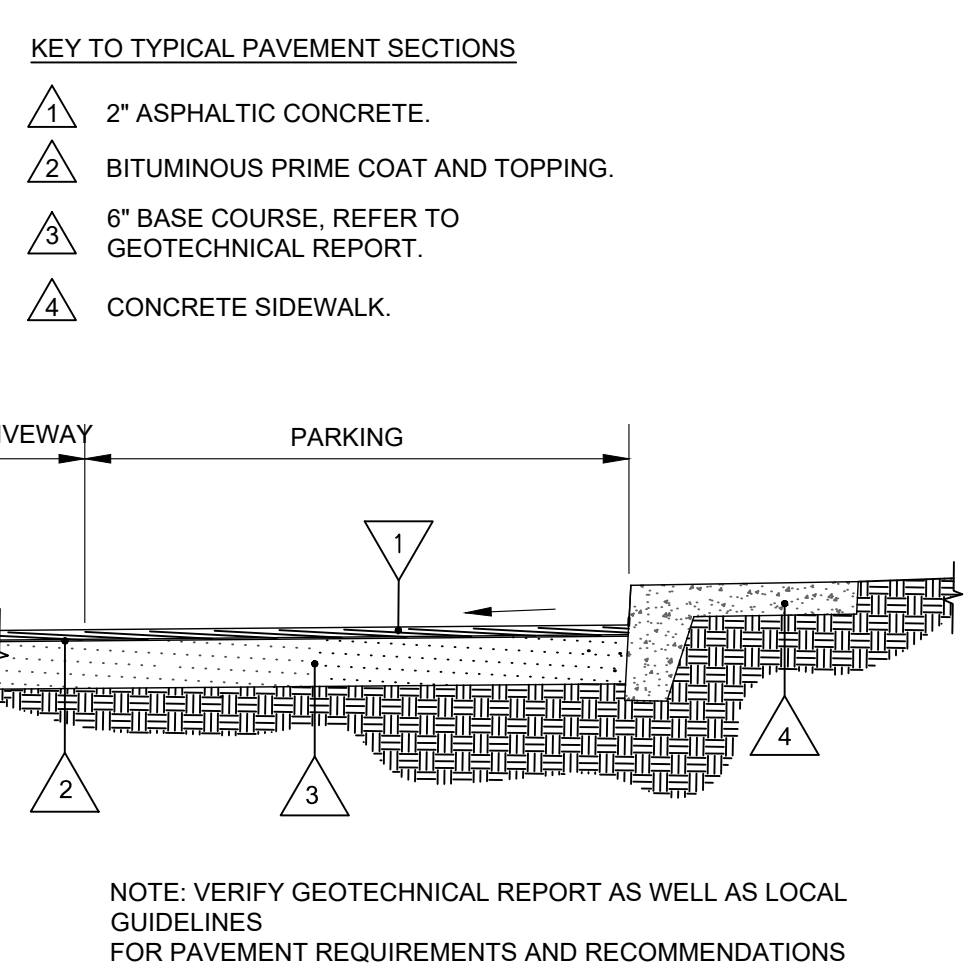
NOTE: CONCRETE TO HAVE A MIN. 28 DAY STRENGTH OF 3000 PSI

BLOCKING DIMENSIONS					
DEAD END AND TEES	X	A	B	C	D
	8"	10"	2'-3"	3'-3"	2'-0"
12"	12"	3'-0"	4'-6"	3'-0"	3'-0"
BENDS	8"	10"	2'-0"	4'-0"	2'-3"
	12"	12"	4'-3"	6'-0"	3'-3"
90°	8"	10"	1'-6"	2'-6"	2'-0"
	12"	12"	1'-9"	3'-0"	1'-9"
45°	8"	10"	1'-0"	2'-0"	1'-3"
	12"	12"	0'-6"	1'-9"	1'-6"
11 1/4°	8"	10"	0'-6"	1'-4"	1'-0"
	12"	12"	0'-6"	1'-9"	1'-6"

X= DIAMETER OF PIPE TO BE BLOCKED NOTE: BLOCKING SHALL BE CONSTRUCTED AS PER AWWA STD. 0600, SECTION 12.3, OR LATEST REVISION



7 PLANTER SIDEWALK
AS2.3 SCALE: 3/8" = 1'-0"

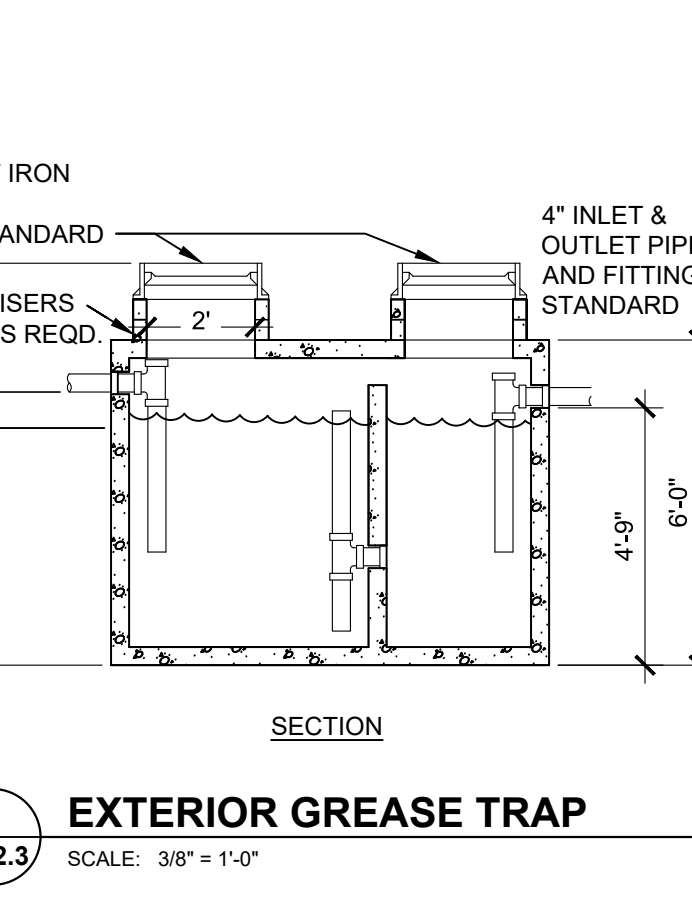
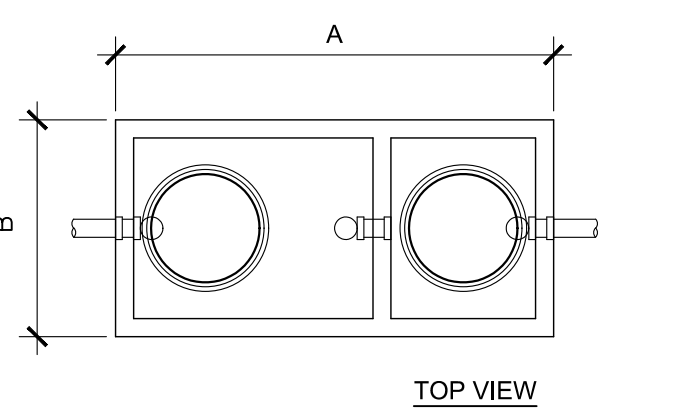


8 TYP. ASPHALT PAVEMENT DETAIL
AS2.3 SCALE: 3/8" = 1'-0"

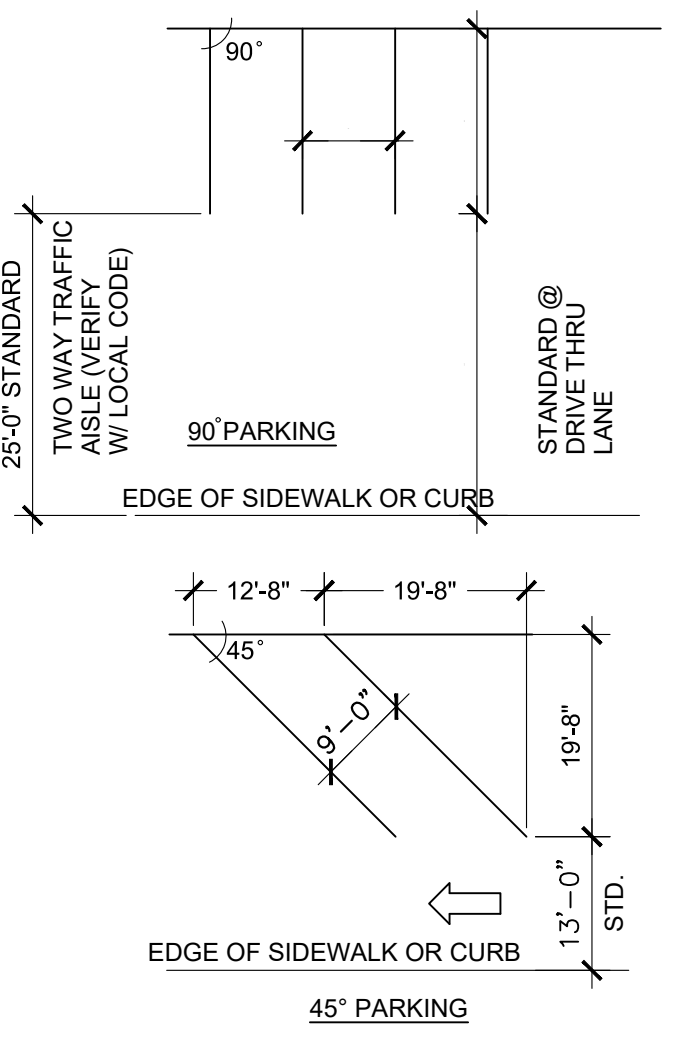
GREASE TRAP SIZE TABLE

G.T. SIZE	DIM "A"	DIM "B"
1000 GALLON	8'-2"	5'-1"
1200 GALLON	8'-6"	5'-9"

VERIFY PER LOCAL CODE



3 EXTERIOR GREASE TRAP
AS2.3 SCALE: 3/8" = 1'-0"



2 PARKING STALL STANDARDS
AS2.3 SCALE: 3/8" = 1'-0"

ISSUE TABLE

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DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

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11.10.2023

Company Logo

THE DIMENSION GROUP
ARCHITECTURE - CIVIL ENGINEERING - MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongroup.com

Project

LOUISIANA KITCHEN
19 72
POPEYES

Store Type

US 2112 PROTOTYPE
2112-21

Location

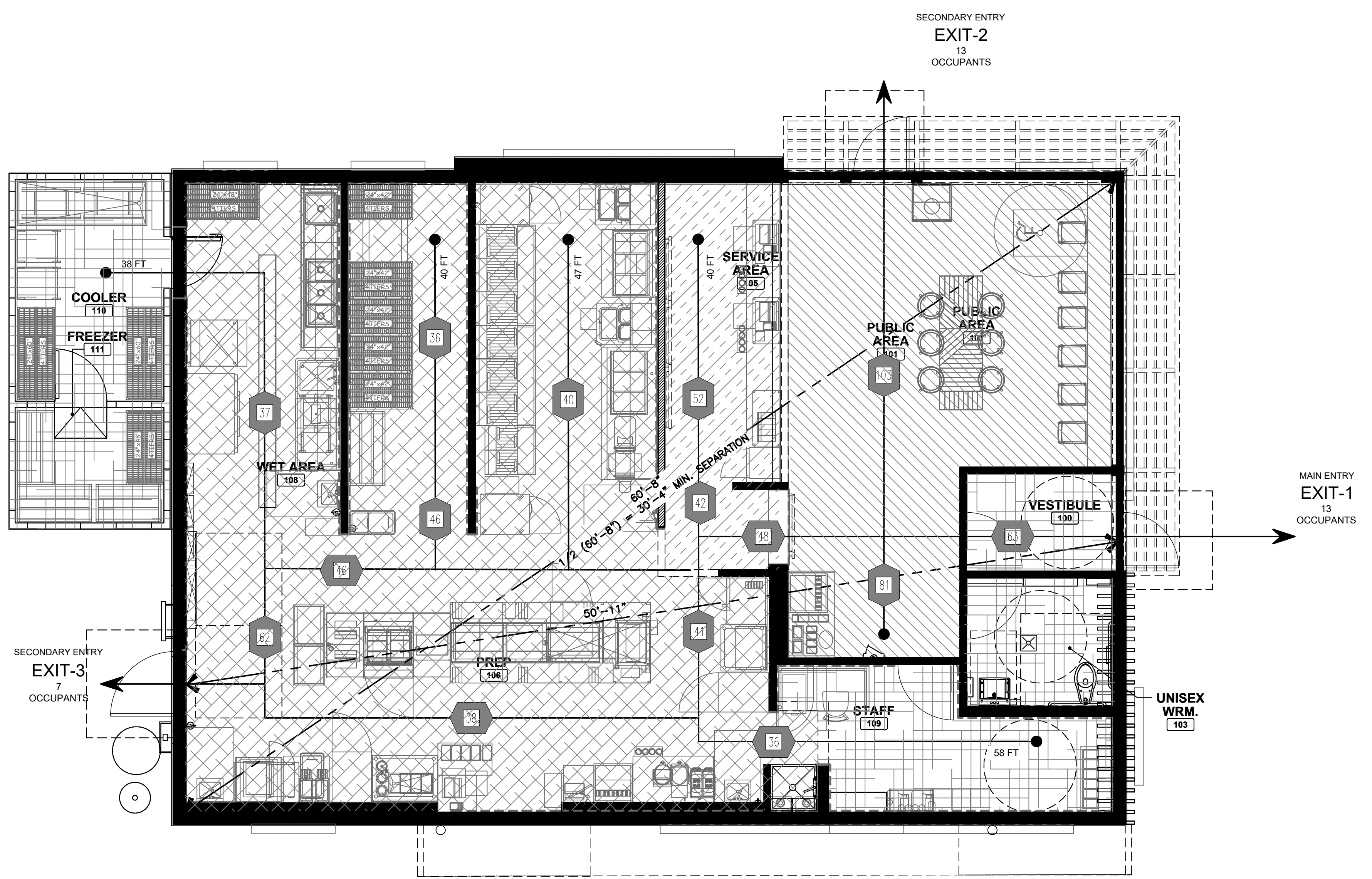
1517 NC 24-87
CAMERON, NC

Drawing Title

SITE DETAILS

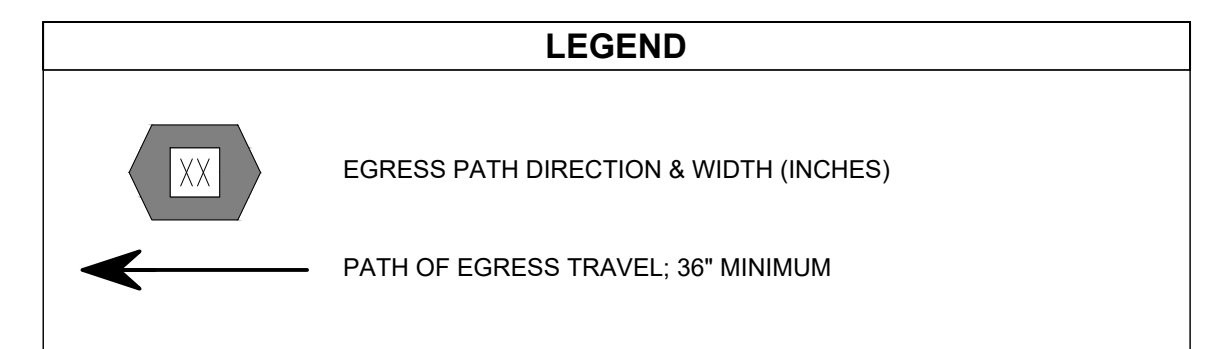
Drawn	SH	Checked	AL
Scale	AS NOTED	Date	JUNE 2023
Project No.	C22-129	Drawing No.	AS2.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



GENERAL NOTES:
 A. FIRE EXTINGUISHER (K CLASS) TO BE PROVIDED BY G.C. VERIFY NUMBER AND LOCATION OF EXTINGUISHERS WITH LOCAL AUTHORITIES. SEE SHEET A2 FOR ADDITIONAL INFORMATION

OCCUPANCY SIGNAGE NOTES:
 SIGNS STATING THE MAXIMUM OCCUPANT CONTENT SHALL BE CONSPICUOUSLY POSTED IN EACH AREA OF ASSEMBLY, ASSEMBLY ROOM, OR ROOM USED FOR SIMILAR PURPOSE.



BUILDING CODE INFORMATION
 BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
 OCCUPANCY CLASSIFICATION: BUSINESS & ASSEMBLY GROUP B & A-2
 CONSTRUCTION TYPE: TYPE V-B
 SPRINKLER: NOT SPRINKLERED
 TOTAL MAXIMUM OCCUPANT LOAD: 25 OCCUPANTS
 MERCANTILE AREA:
 EXITING REQUIREMENTS:
 MAX TRAVEL DISTANCE 200' (250' WITH SPRINKLER SYSTEM)
 EXITS: TOTAL REQ: 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.

OCCUPANCY CALCULATIONS

BUILDING CODE:	SQFT	TOTAL SQFT	TOTAL PERSONS	TOTAL PERSONS
ASSEMBLY (RESTAURANT) 15 SQ.FT PER OCCUPANT				
DINING (CONCENTRATED)	224		15	
DINING (STANDING)	59	283	4	19
ASSEMBLY (STORAGE) 200 SQFT PER OCCUPANT				
KITCHEN	1,100	1,100	6	6
UNOCCUPIED AREAS				
VESTIBULE	42			
RESTROOM	56			
COOLER VAULT	154			
OFFICE	90	342	0	0
TOTAL OCCUPANCY				25

EGRESS CAPACITY

MAIN ENTRY EXIT 1 WIDTH	= 347.02" = 170 PERSONS
SECONDARY EXIT 2 WIDTH	= 347.02" = 170 PERSONS
SECONDARY EXIT 3 WIDTH	= 407.02" = 200 PERSONS
TOTAL	= 540 PERSONS

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DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

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11.10.2023

Company Logo

Project

Store Type
 US 2112 PROTOTYPE
 2112-21

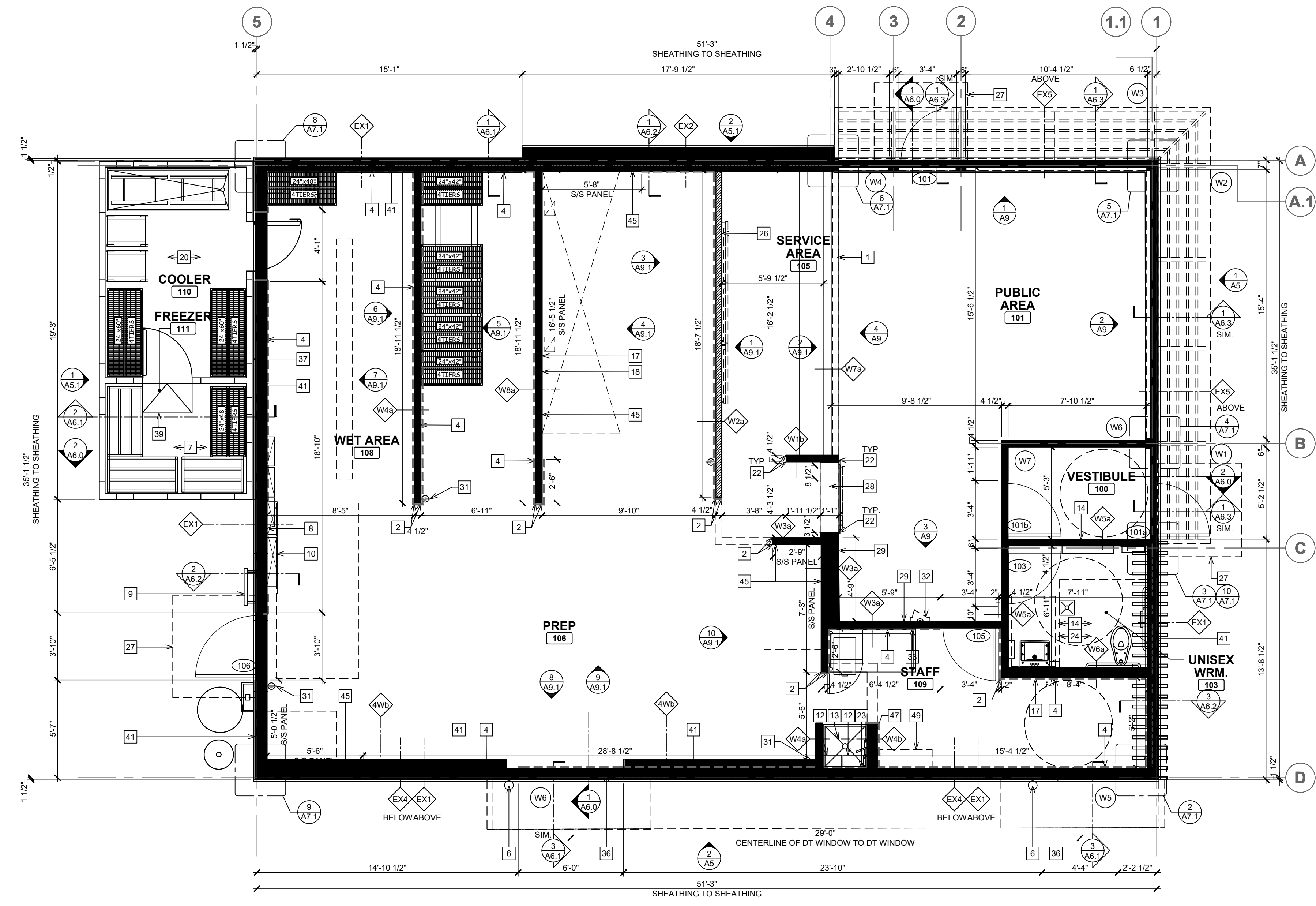
Location
 1517 NC 24-87
 CAMERON, NC

Drawing Title
 LIFE SAFETY & EXITING
 PLAN

Drawn	SH	Checked	AL
Scale	AS NOTED	Date	JUNE 2023
Project No.	C22-129	Drawing No.	AS2.4

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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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

FLOOR PLAN NOTES

- APPROXIMATE LOCATION OF FRONT COUNTER. CONSULT MILLWORK DRAWINGS FOR ACTUAL LOCATION. G.C TO COORDINATE WITH MILLWORK COMPANY FOR ACTUAL LOCATION.
- G.C TO PROVIDE AND INSTALL 2" X 2" (4FT LIGHT DUTY 20 GAUGE "M 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 CEILING AND BULKHEADS ON ALL OUTSIDE CORNERS.
- 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 AS & AS.1.
- PROVIDE PLYWOOD BACKING / BLOCKING IN WALL AS REQUIRED TO SUPPORT WALL MOUNTED ITEM.
- N/A.
- 6" DIA. METAL BOLLARD FILL W/ CONCRETE AND PAINTED. REFER TO DETAIL 13/AS2.3 & EXTERIOR ELEVATIONS AS & AS.1.
- 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.
- PROVIDE 1/2" FIRE RATED PLYWOOD FROM FINISHED FLOOR TO 8'-0" BEHIND ELECTRICAL PANEL. PAINT PLYWOOD W/ 1 COAT OF PRIMER PEEL BONDING PRIMER & 2 FINISH COATS OF WHITE LATEX PAINT W/ CLASS A RATING (BY SHERWIN WILLIAMS).
- INTERIOR ROOF ACCESS LADDER AND ROOF HATCH. REFER TO DETAIL 2/A6.2.
- 8" DEEP X 6" HIGH CONCRETE HOUSE KEEPING PAD @ LOCATION OF ELECTRICAL PANELS. PROVIDE TILE FINISH ON HORIZONTAL & VERTICAL SURFACES.
- N/A.
- HOT WATER TANK C/W EXPANSION TANK (IF REQUIRED) MOUNTED ABOVE MOP SINK. REFER TO MECHANICAL DRAWINGS.
- G.C TO PROVIDE AND INSTALL SURFACE MOUNTED MOP SINK. WALLS AROUND MOP SINK TO RECEIVE 1/2" CEMENTITIOUS BACKER BOARD FROM FLOOR TO 4'-0" A.F.F. REFER TO MECHANICAL DWGS.
- G.C TO SUPPLY AND INSTALL SOUND BATT INSULATION ON ALL PUBLIC WASHROOM WALLS.
- N/A.
- N/A.
- WALL TO BE COMPLETE W/ 1 LAYER 1/2" DUROCK NEXT GEN CEMENT BOARD ON 2"X6" METAL STUDS @ 16" O.C. CARRY STUDS & CEMENT BOARD TO 6" ABOVE CEILING.
- PROVIDE PROPER NON-COMBUSTIBLE SUPPORT IN WALL AS REQUIRED TO SUPPORT EXHAUST HOOD. COORDINATE WITH HOOD VENDOR.
- N/A.
- INSTALL FLOOR TILE AFTER INSTALLATION OF COOLER UNIT. G.C TO COORDINATE WITH COOLER/FREEZER MANUFACTURER.
- N/A.
- PROVIDE & INSTALL SCHLUTER STRIP AT TILED CORNERS. REFER TO SHEET A10 FOR SPECIFICATIONS.
- WATER FILTRATION SYSTEM BY EQUIPMENT SUPPLIER. REFER TO MEP DRAWINGS. WATER FILTRATION SYSTEM TO BE INSTALLED TIGHT AGAINST THE CORNER.
- REFER TO SHEET A9.3 FOR WASHROOM ELEVATIONS.
- N/A.
- PROVIDE BACKING/BLOCKING IN WALL AS REQUIRED TO SUPPORT WALL MOUNTED LED SCREENS.
- DASHED LINE INDICATES LOCATION OF FROST SLAB (FOR COLDER CLIMATE REGIONS). REFER TO STRUCTURAL DRAWINGS FOR SIZE.
- 1/2" CEMENT BOARD EXTEND 24" A.F.F AND 1/2" GYPSUM WALL BOARD ABOVE ON 3/8" METAL STUDS.
- 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.
- N/A.
- WALL MOUNTED FIRE EXTINGUISHER TO BE SUPPLY AND INSTALL BY G.C. G.C TO VERIFY LOCATION WITH FIRE MARSHALL.
- SEMI- RECESSED FIRE EXTINGUISHER AND CABINET. REFER TO INTERIOR ELEVATION 3/A9.
- PROVIDE PLYWOOD BEHIND PORTAL OFFICE CABINET. REFER TO INTERIOR ELEVATION 9/A9.1.
- N/A.
- N/A.
- DRIVE THRU WINDOW SUPPLY AND INSTALL BY G.C.
- PROVIDE MIN. 2" AIR SPACE BETWEEN COOLER / FREEZER AND FACE OF WALL.
- N/A.
- COOLER / FREEZER UNIT PROVIDED & INSTALLED BY MANUFACTURER. INTERIOR RAMP TO BE PROVIDED INSIDE FREEZER UNIT BY MANUFACTURER. G.C TO COORDINATE.
- N/A.
- CROSS HATCH INDICATES LOCATION OF SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS.
- N/A.
- N/A.
- N/A.
- 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.
- N/A.
- RAIN WATER LEADER. REFER TO PLUMBING DRAWINGS.
- WATER METER AND BACK FLOW PREVENTER. REFER TO PLUMBING DRAWINGS. EXACT LOCATION OF WATER METER TO BE COORDINATED WITH CIVIL PLANS.

11.10.2023

Company Logo

10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongroup.com



Project	US 2112 PROTOTYPE 2112-21	
Location	1517 NC 24-87 CAMERON, NC	
Drawing Title	FLOOR PLAN AND SCHEDULES	
Drawn	SH	Checked AL
Scale	1/4"=1'-0"	Date JUNE 2023
Project No.	C22-129	Drawing No. A1

WALL TYPE LEGEND

	<p>EXTERIOR WALL AT STUCCO (EIFS)</p> <ul style="list-style-type: none"> STO THERMO GILDUSAN EXTERIOR INSULATION FINISHING SYSTEM (EIFS): 1" EXPANDED POLYSTYRENE INSULATION BOARD W/ 1/2" BASE COAT, REINFORCING MESH AND 3/8" 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 1/2" 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 1/2" GYPSUM BOARD SHEATHING ON CONTINUOUS 6 MIL. POLYETHYLENE VAPOR BARRIER TO (U/S OF DECK). PROVIDE 1/2" CEMENTITIOUS BACKER BOARD INSTEAD OF PLYWOOD SHEATHING TO 12" ABOVE FLOOR SLAB C/W ACOUSTICAL SEALANT AT BASE. <p>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)</p>
	<p>EXTERIOR WALL AT NICHIIA SIDING (VINTAGEBRICK)</p> <ul style="list-style-type: none"> NICHIIA VINTAGE BRICK, COLOR: ALEXANDRIA BUFF, 17 1/2" HIGH X 7 1/2" LONG X 3/4" THICK. COMES WITH STARTER TRACK AND JOINT CLIP. 1 LAYER 1/2" 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. 1 LAYER 1/2" 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 1/2" GYPSUM BOARD SHEATHING ON CONTINUOUS 6 MIL. POLYETHYLENE VAPOR BARRIER TO (U/S OF DECK). PROVIDE 1/2" CEMENTITIOUS BACKER BOARD INSTEAD OF GYPSUM BOARD TO 2'-0" ABOVE FLOOR SLAB C/W ACOUSTICAL SEALANT AT BASE. <p>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)</p>
	<p>EXTERIOR WALL AT NICHIIA SIDING (VINTAGEBRICK) EXTEND 9'-0" A.F.F.</p> <ul style="list-style-type: none"> NICHIIA VINTAGE BRICK, COLOR: ALEXANDRIA BUFF, 17 1/2" HIGH X 7 1/2" LONG X 3/4" THICK. COMES WITH STARTER TRACK AND JOINT CLIP. EXTEND 9'-0" A.F.F. 1 LAYER 1/2" EXTERIOR GRADE PLYWOOD EXTEND 9'-0" A.F.F. 2"X6" 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 1/2" GYPSUM BOARD SHEATHING ON CONTINUOUS 6 MIL. POLYETHYLENE VAPOR BARRIER TO (U/S OF DECK). PROVIDE 1/2" CEMENTITIOUS BACKER BOARD INSTEAD OF PLYWOOD SHEATHING TO 12" ABOVE FLOOR SLAB C/W ACOUSTICAL SEALANT AT BASE. <p>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)</p>

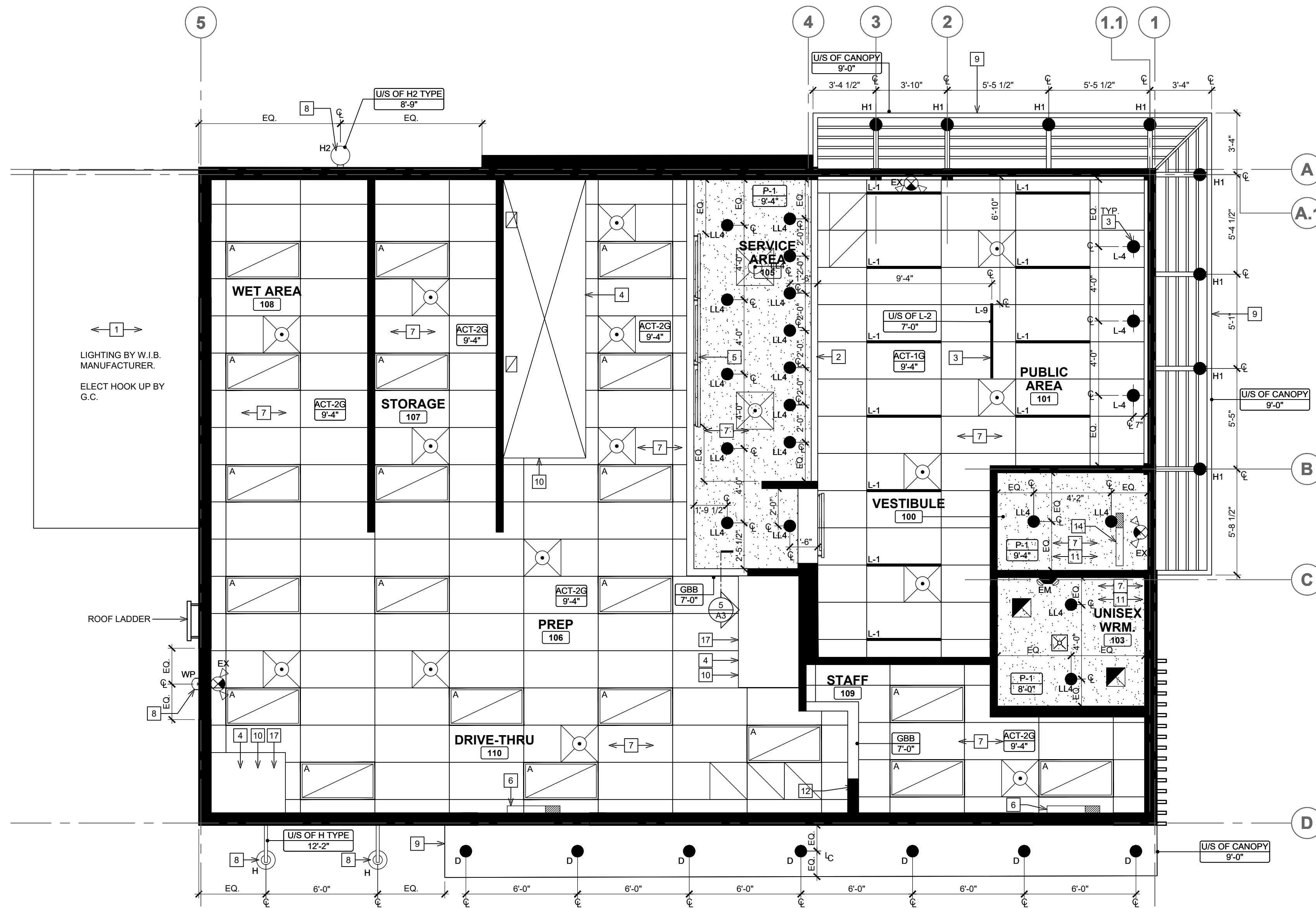
NOTE:

	1/2" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND 1/2" GYPSUM BOARD FROM 2'-0" A.F.F. TO U/S OF CEILING (PUBLIC AREA SIDE)
	1/2" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND 1/2" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. (KITCHEN SIDE)
	1/2" DUROCK NEXT GEN CEMENT BOARD (WASHROOM SIDE)
	1/2" DUROCK NEXT GEN CEMENT BOARD (WASHROOM SIDE)
	1/2" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND 1/2" GYPSUM BOARD FROM 2'-0" A.F.F. TO 29" A.F.F. (PUBLIC AREA SIDE)
	1/2" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND 1/2" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. (KITCHEN SIDE)
	1/2" DUROCK NEXT GEN CEMENT BOARD UP TO 2'-0" A.F.F. AND 1/2" MOLD RESISTANT GYPSUM BOARD FROM 2'-0" A.F.F. (SERVICE AREA SIDE)

GENERAL NOTES:

- 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.
- REFER TO SITE PLAN FOR LOCATION & EXTENTS OF SIDEWALKS ETC.
- ALL EXTERIOR WALLS SHALL BE FRAMED WITH 2 X 6 STUDS @ 16" O.C. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR LAYOUT, DIMENSIONS, DETAILS, MATERIAL INFORMATION & SPECIFIC STRUCTURAL DESIGN REQUIREMENTS.
- G.C TO PROVIDE SOLID WOOD BLOCKING BEHIND ALL WALL MOUNTED FIXTURES AND ACCESSORIES.
- FOR ANIMALS, REFER TO WALL SECTIONS REFERENCE KEYED ON PLANS.
- LOCATION OF CEMENTITIOUS BACKER BOARD INDICATES LOCATION OF WALL TILE FINISH. VERIFY WITH INT. ELEVATIONS ON SHEET A9 & A9.1 FOR WALL TILE LOCATIONS.
- 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.
- REFER TO MANUFACTURE SPECIFICATIONS FOR ALL INSTALLATION PROCEDURE.
- 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.
- G.C TO SEAL/CAULK ALL BUILDING PENETRATIONS PRIOR TO PERFORMING AN AIR BARRIER TEST.
- 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.
- G.C TO PROVIDE & INSTALL 1/2" CEMENTITIOUS BACKER BOARD INSTEAD OF GYPSUM BOARD TO 2'-0" ABOVE FLOOR SLAB (FOR ALL INTERIOR PARTITIONS).
- REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



SYMBOL LEGEND

	SECTION NUMBER DRAWING NUMBER
	NOTE REFERENCE
	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.
	SPEAKERS ATTACHED TO U/S OD TRUSS. REFER TO ELECTRICAL DRAWINGS.
	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

	2'-0" X 4'-0" RECESSED FIXTURE
	PENDANT LIGHTING INSTALLED @ 7'-0" A.F.F. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	RECESSED DOWN LIGHT. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	LINEAR LIGHTING INSTALLED @ 9'-4" A.F.F. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	LINEAR SUSPENDED LIGHTING INSTALLED @ 7'-0" A.F.F. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	CANOPY DOWN LIGHT. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	RECESSED DOWN LIGHT IN CANOPIES. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	EXTERIOR LIGHTING. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	EMERGENCY LIGHTING. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	EMERGENCY LIGHTING. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.
	EXTERIOR WALL PACK LIGHTING. REFER TO ELECTRICAL DRAWINGS AND MASTER SCHEDULE.

REFER TO ELECTRICAL DRAWINGS FOR SPECIFICATIONS

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
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2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION



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11.10.2023

Company Logo

ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensionalgroup.com

Project

Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
REFLECTED
CEILING PLAN &
DETAILS

Drawn	SH	Checked	AL
Scale	1/4"=1'-0"	Date	JUNE 2023
Project No.	C22-129	Drawing No.	A3

NOTE:

- 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.
- 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

- REFER TO WALK-IN FREEZER & COOLER MANUFACTURER FOR EVAPORATOR AND LIGHTING. FINAL CONNECTION BY G.C.
- ORANGE METAL FRAME AROUND OPENING OF FRONT COUNTER. REFER TO POPEYES DECOR PACKAGE.
- 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.
- EXHAUST HOODS SUPPLY BY OWNER AND INSTALL BY G.C. REFER TO MECHANICAL DRAWINGS.
- 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.
- 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 OUTLETS PROVIDED TO BE CAPPED OFF. REFER TO ELECTRICAL DRAWINGS.
- ALL DIFFUSERS & RETURN AIR GRILLES TO MATCH CEILINGS (THROUGHOUT THE ENTIRE RESTAURANT).
- REFER TO EXTERIOR ELEVATIONS FOR MOUNTING LOCATION OF WALL MOUNTED LIGHT FIXTURES (TYP.)
- LINE OF CANOPY ABOVE. SUPPLY AND INSTALL BY SIGNAGE VENDOR. REFER TO DETAILS AND STRUCTURAL DRAWINGS.
- 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.
- CEILING IN PUBLIC RESTROOMS / WASHROOM VESTIBULE TO BE PAINTED GYPSUM BOARD INSTALLED OVER 2' X 4" WOOD CEILING FRAMING @ 2'-0" O.C.
- RAINWATER LEADER. REFER TO MECHANICAL DRAWINGS.
- G.C. TO SUPPLY AND INSTALL EXHAUST FAN IN THE CABINET TO VENT ABOVE CEILING AT OFFICE DESK.
- HOOD USED ONLY WHERE THE CITY REQUESTS HOOD ABOVE EQUIPMENT.
- 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).
- JLC T-BAR LED LINEAR LIGHTING FIXTURE INSTALL T-BAR GRID. REFER TO FINISH SCHEDULE.

SECURITY CAMERA LEGEND (16.3)

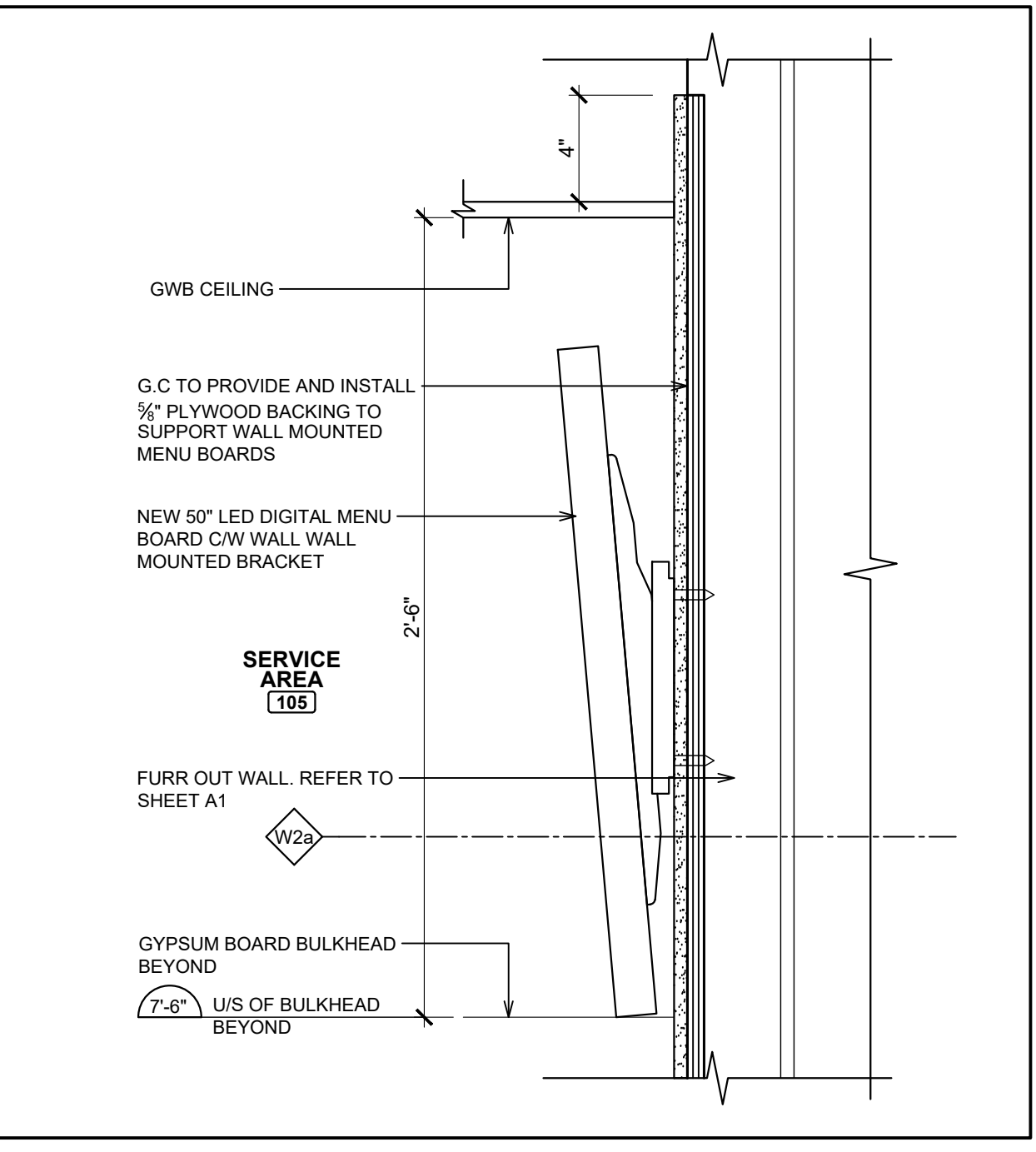
CAP. INDEX	SECURITY PACKAGE #	CAMERA #S
0-100	1	1-4
100-250	2	1-8
>250	3	1-12

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. *

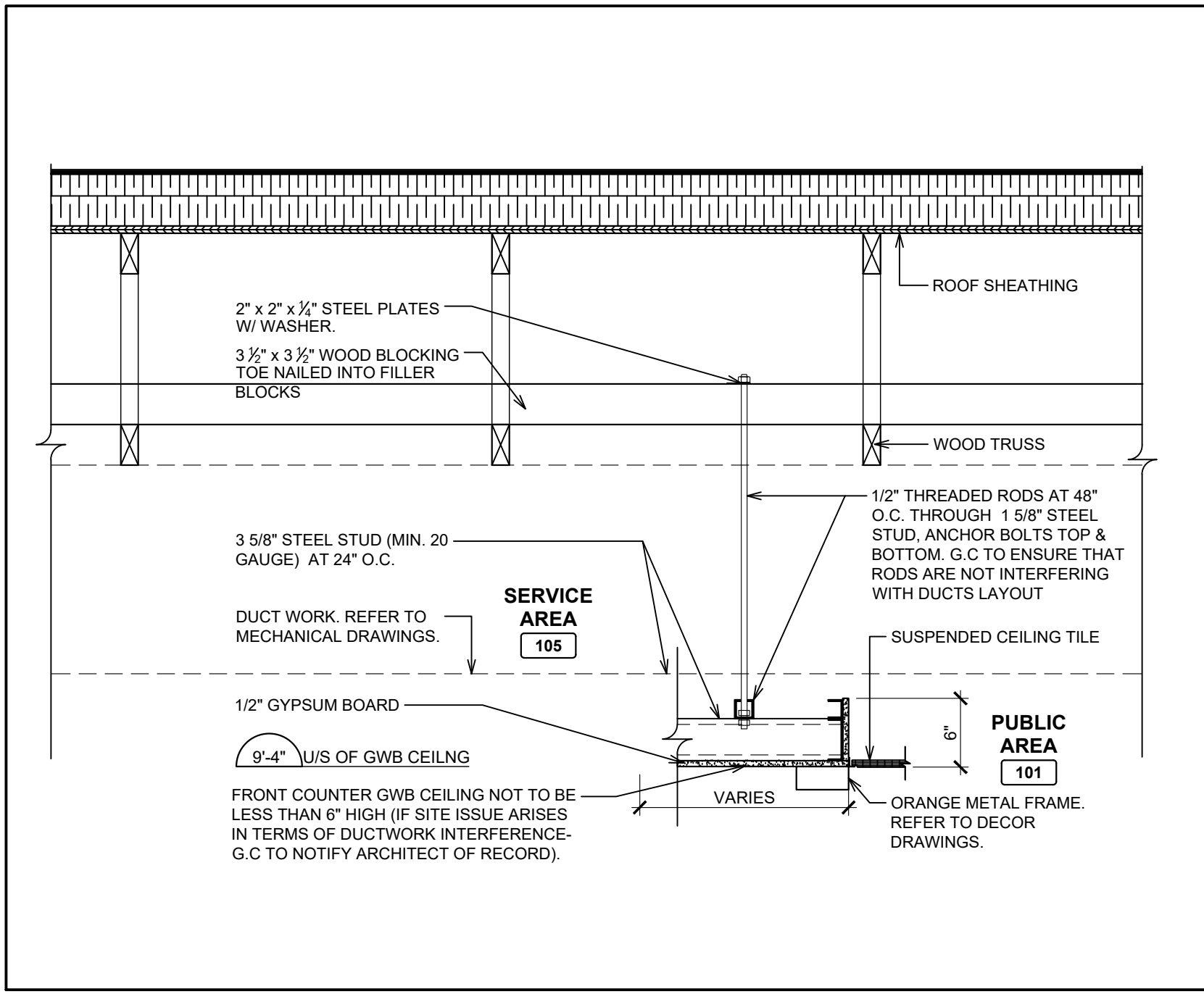
CAMERAS # NUMBER OF CAMERAS

1 REELECTED CEILING PLAN

A3 SCALE: 1/4"=1'-0"

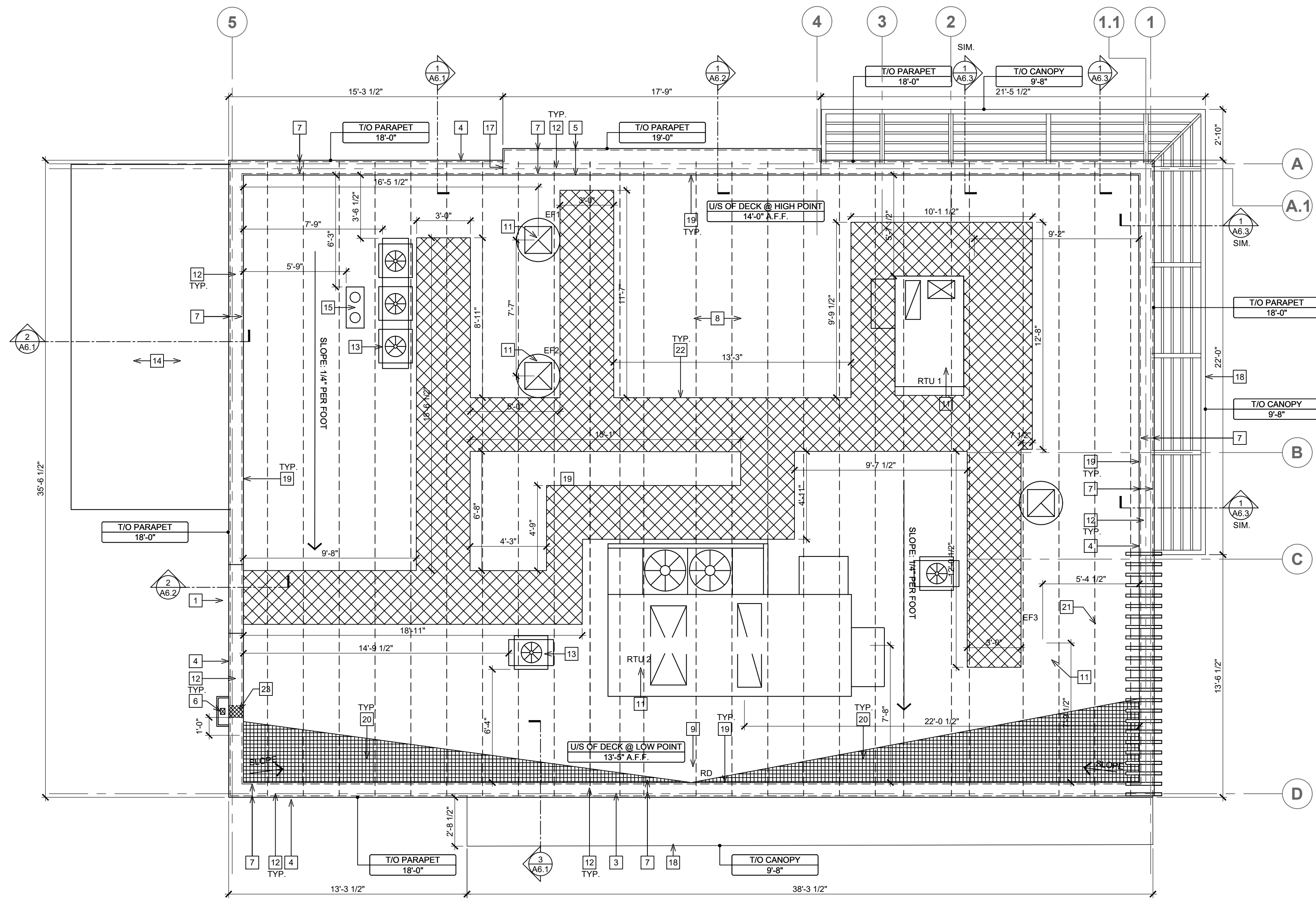


3 MENU SCREEN DETAIL (WALL MOUNTED)
A3 SCALE: 2"=1'-0"



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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



SYMBOL LEGEND

1	DETAIL NUMBER
A1	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:

- 1/8" GOMI WHITE ULTRAPLY TPO MEMBRANE (OR APPROVED EQUAL)
- 2 LAYERS OF RIGID INSULATION (R-33 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, NC PLUMBING CODE) 4"

VERTICAL LEADER SIZE (RECTANGULAR) 3-1/2" X 4"

SPECIFIED LEADER CAPACITY (SINGLE) (PER TABLE 1106.2(2), NC PLUMBING CODE) 5300 S.F

REQUIRED OVERFLOW SCUPPER SIZE (SINGLE) 1" X 10.7"

VERTICAL LEADER (X1) CAPACITY PROVIDED 5,300 S.F.

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DRAWINGS REVISED AS PER DESIGN BULLETIN

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11.10.2023

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Project

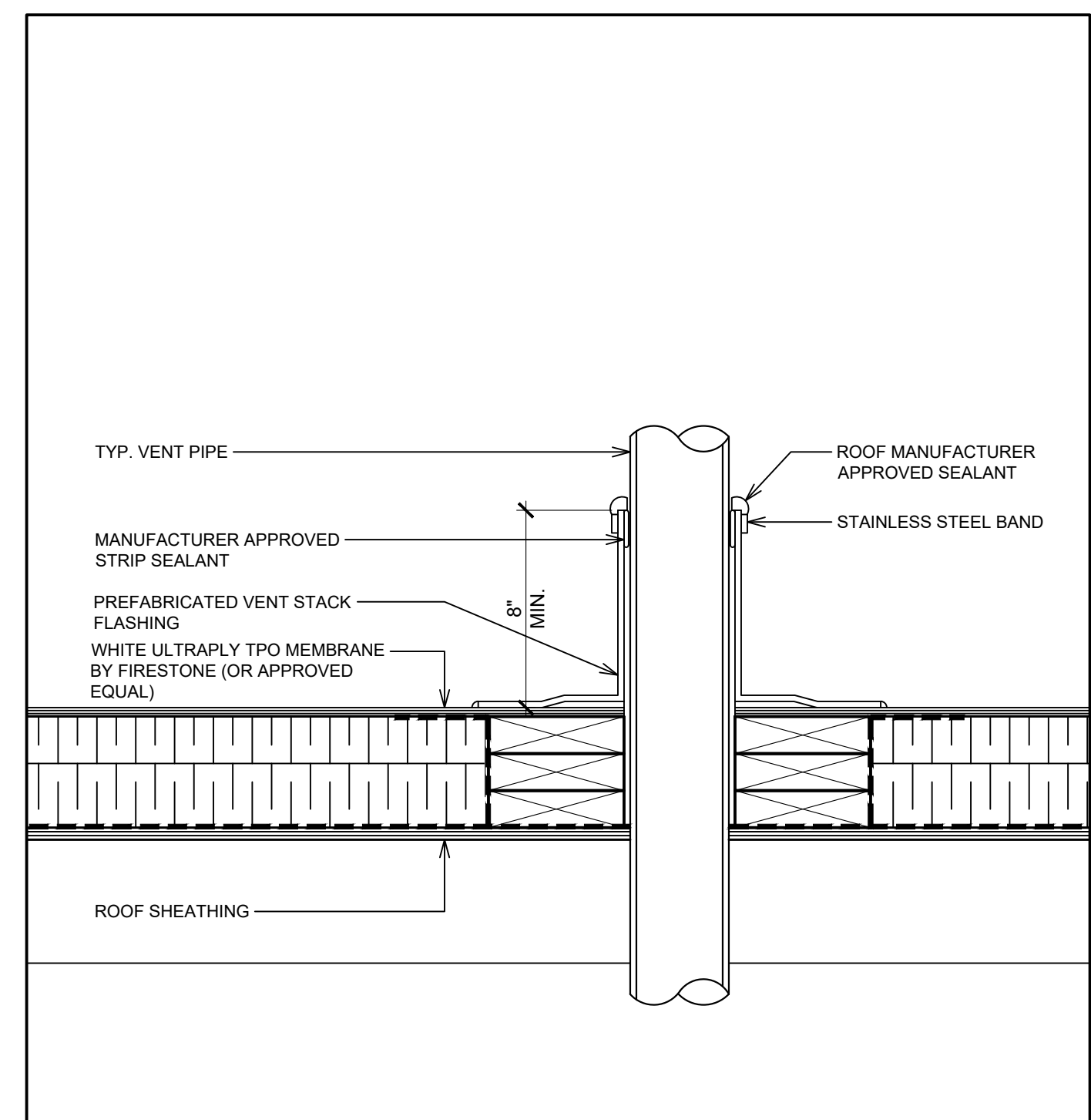
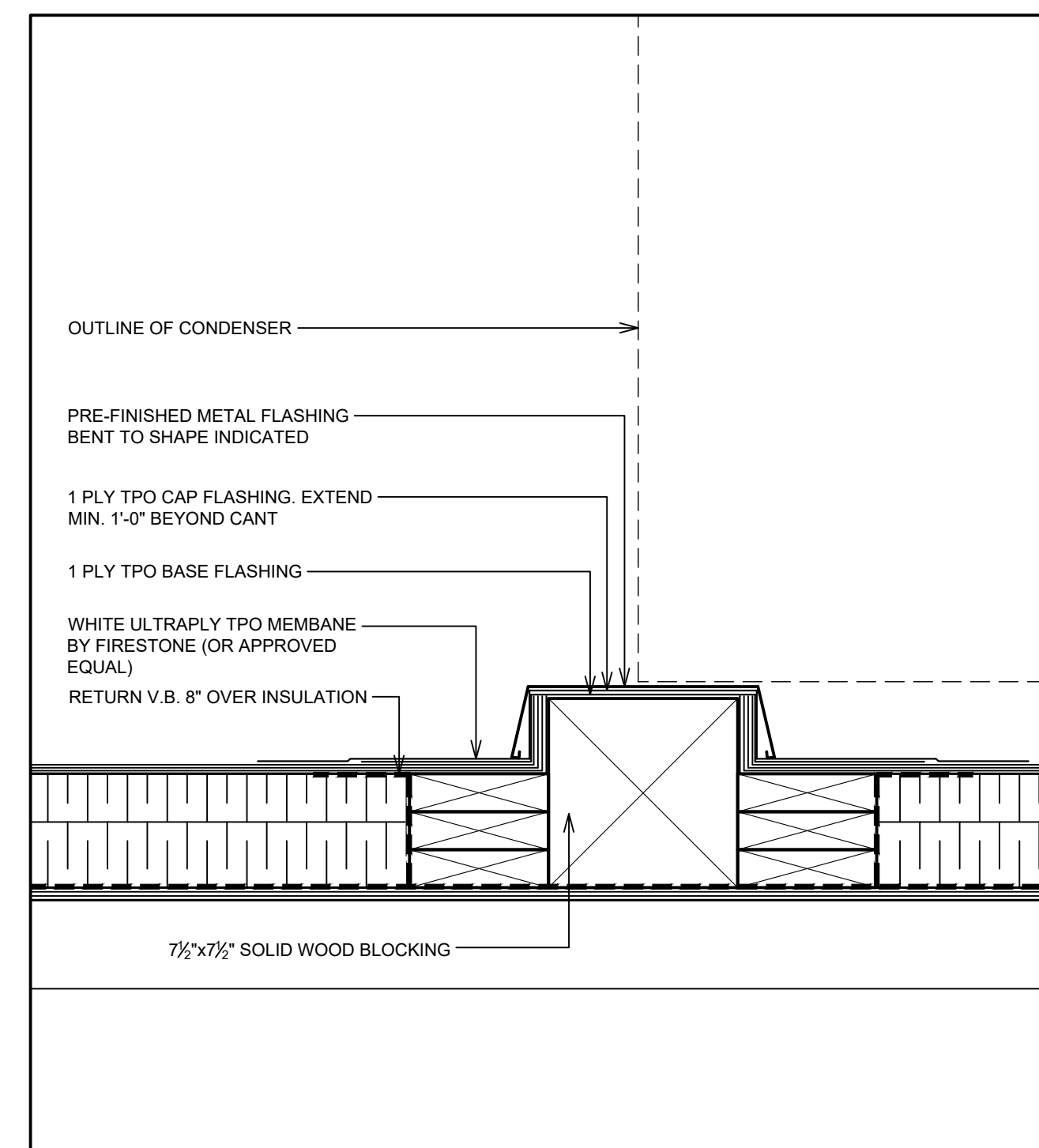
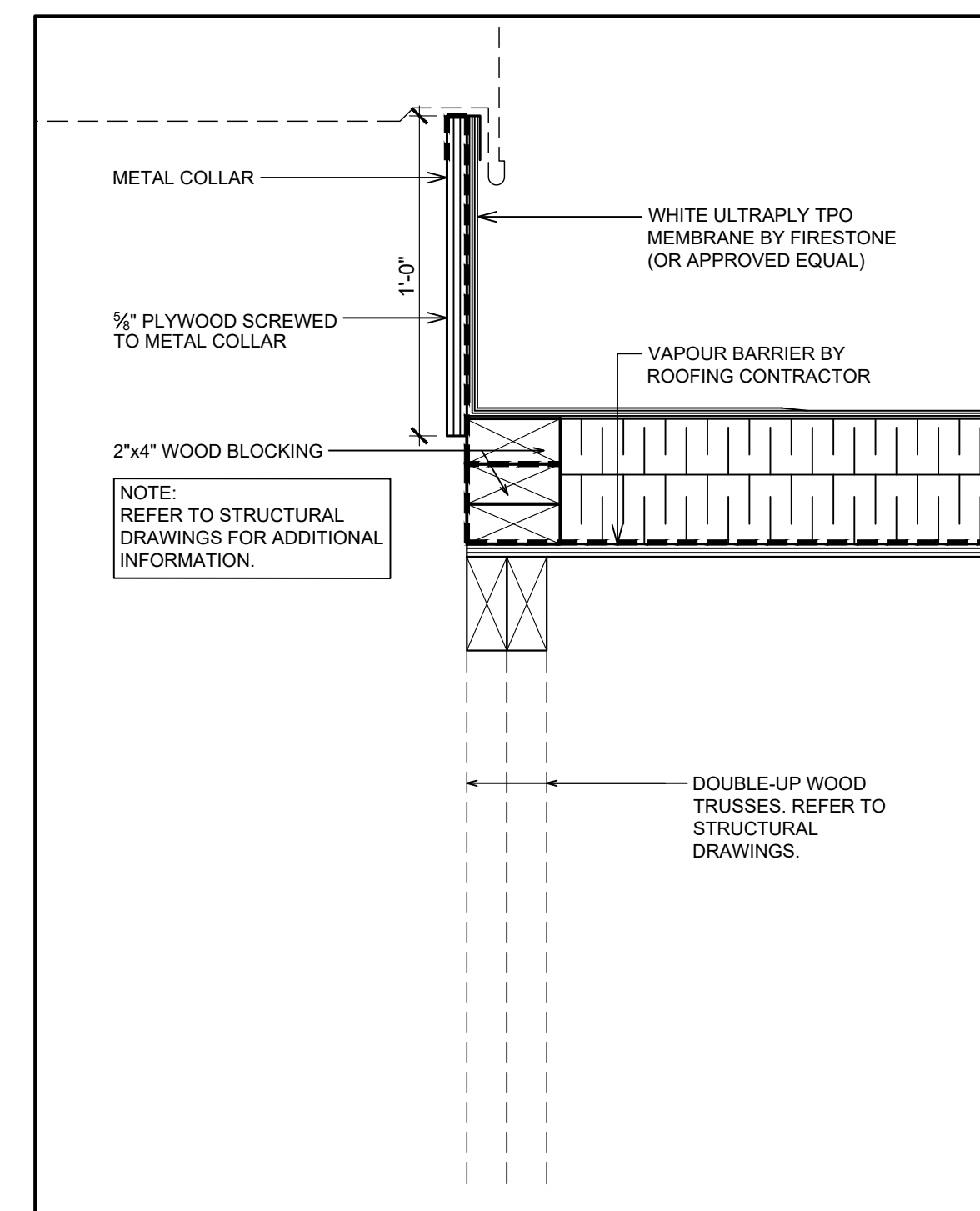
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
ROOF PLAN AND DETAILS

Drawn	SH	Checked	AL
Scale	1/4"=1'-0"	Date	JUNE 2023
Project No.	C22-129	Drawing No.	A4

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



ROOF PLAN NOTES

- ROOF ACCESS HATCH TO MATCH PRE-FINISHED METAL CAP FLASHING. REFER TO DETAIL 1/A6.3.
- N/A.
- N/A.
- LINE OF PARAPET. REFER TO DETAIL ON SHEET 1/A7 & 9/A7.
- LINE OF HIGH PARAPET. REFER TO DETAIL ON SHEET 5/A7.
- PRE-FINISHED COLLECTOR BOX & DOWNSPOUT. REFER TO DETAIL 2/A4.1.
- LINE OF WALL BELOW.
- WHITE ULTRAPLY TPO MEMBRANE BY FIRESTONE (OR APPROVED EQUAL). REFER TO ROOF TYPE SCHEDULE & SPECIFICATIONS.
- ROOF DRAIN. REFER MECHANICAL DRAWINGS.
- WHITE ULTRAPLY TPO MEMBRANE BY FIRESTONE (OR APPROVED EQUAL) OVER DIAGONAL BRACING C/W RIGID INSULATION. REFER TO STRUCTURAL DRAWINGS.
- H.V.A.C UNITS AND EXHAUST FANS AS PER MECHANICAL DRAWINGS. PROVIDE CURB WHERE REQUIRED. REFER TO DETAIL 2/A4.
- PRE-FINISHED METAL CAP FLASHING. REFER TO EXTERIOR FINISH SCHEDULE ON SHEET AS FOR COLOUR AND TYPE.
- PROVIDE SLEEPERS FOR ROOF TOP CONDENSER UNIT. SLEEPERS TO SPAN ACROSS JOISTS BELOW. REFER TO DETAIL 3/A4 & STRUCTURAL DRAWINGS.
- EXTERIOR WALK-IN COOLER/FREEZER ROOF.
- 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'-3" x 1'-0") AND ROOF CURBS TO BE PROVIDED AND FURNISHED BY G.C. REFER TO DETAIL 4/A4 & 1/A4.1.
- PROVIDE & INSTALL 3M NON-SLIP TAPE ON FLASHING AT LADDER LOCATION.
- VINTAGEBRICK FINISH TO WRAP ON SIDE OF HIGH PARAPET WALLS. REFER TO EXTERIOR ELEVATIONS.
- CANOPY BELOW. REFER TO EXTERIOR ELEVATIONS.
- 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.
- 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 1/2" PER FOOT (MIN., AS MEASURED FROM LEVEL PLANE) TO DIRECT STORM WATER TOWARD ROOF DRAINS AS INDICATED ON PLAN.
- VENTS. REFER TO MECHANICAL DRAWINGS & DETAIL 4/A4.
- 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.
- 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.

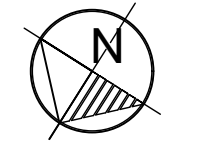
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION



PROJECT NORTH

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Company Logo

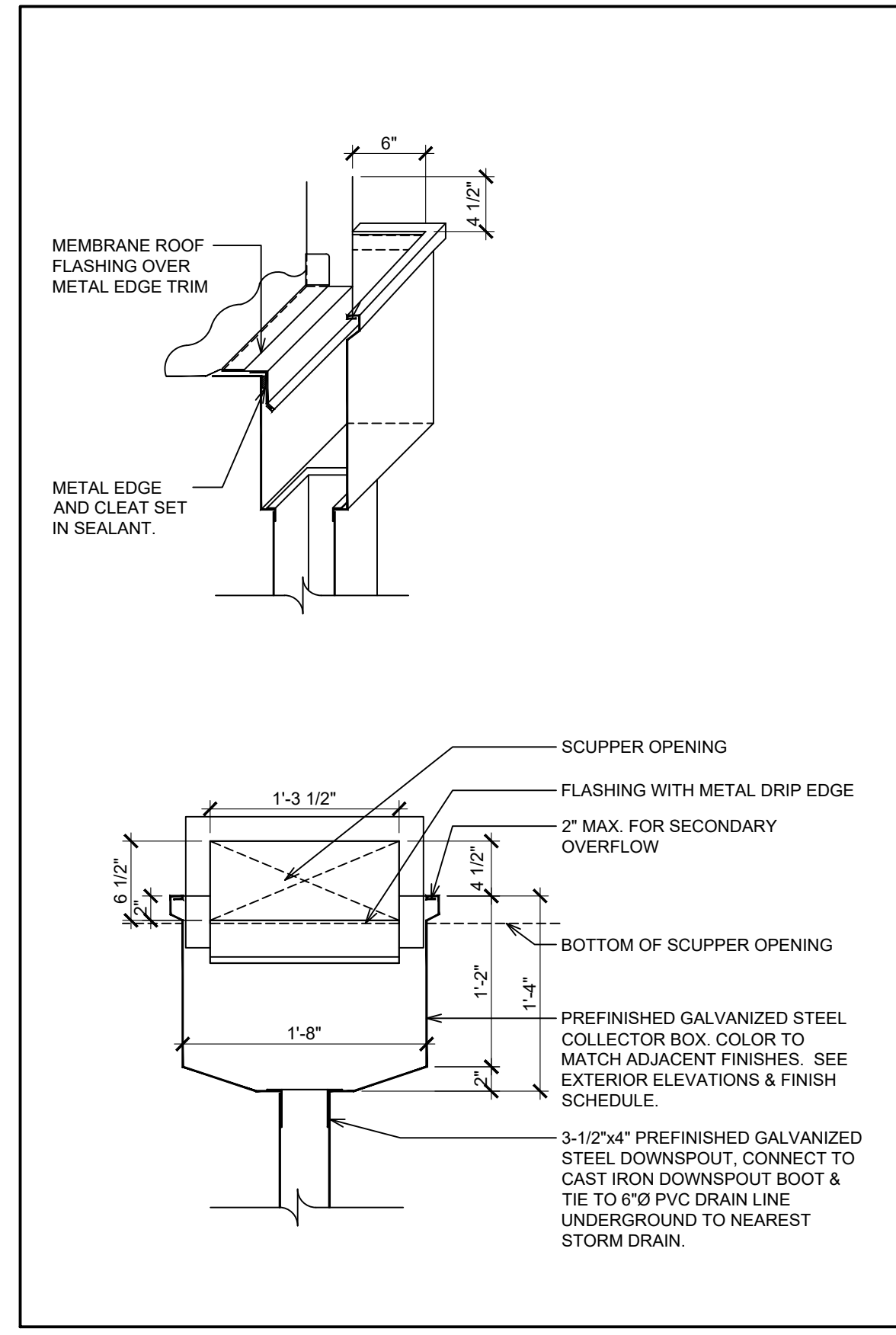
Project

Store Type
US 2112 PROTOTYPE
2112-21

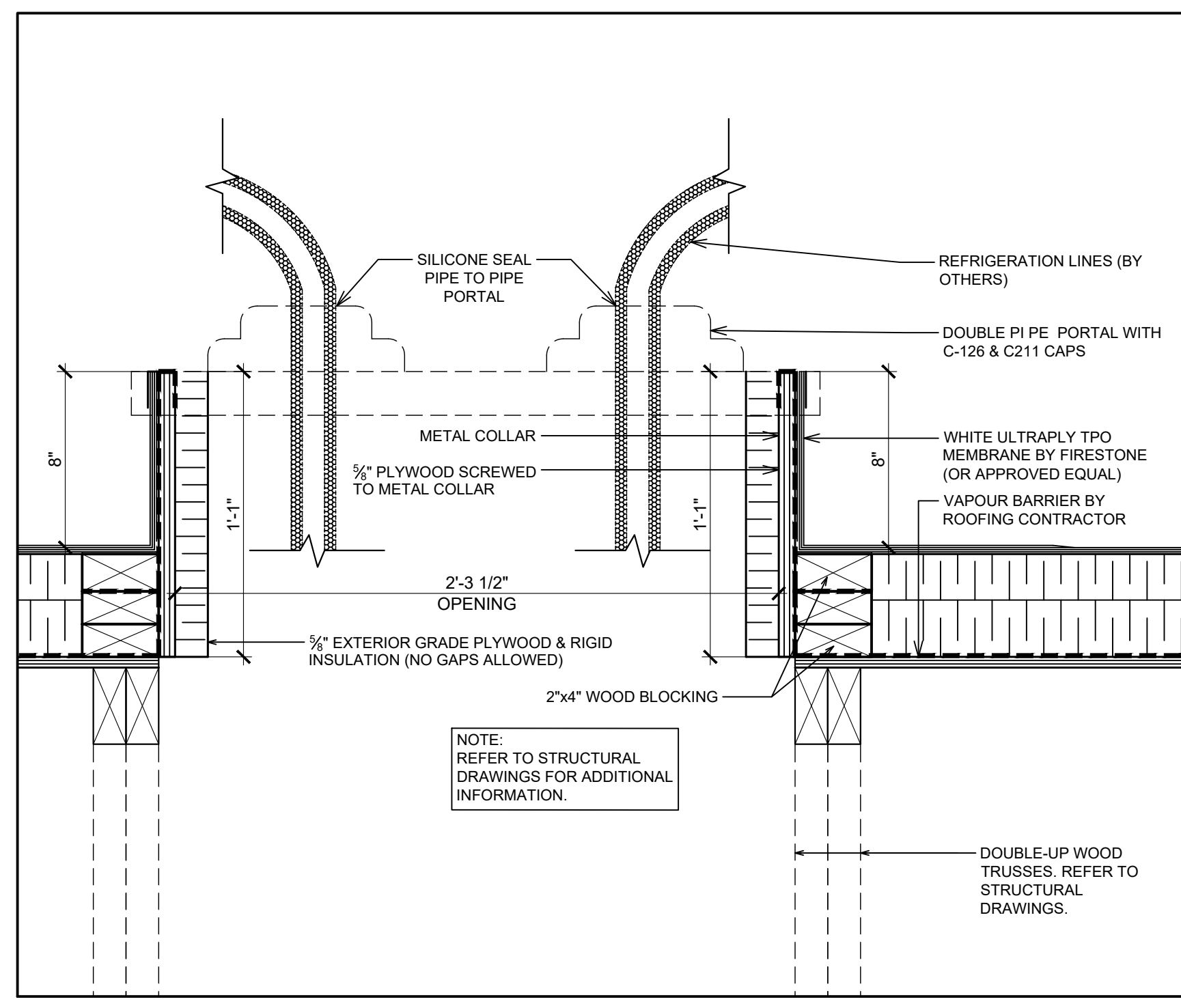
Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
ROOF DETAILS

Drawn	SH	Checked	AL
Scale	1/4"=1'-0"	Date	JUNE 2023
Project No.	C22-129	Drawing No.	A4.1

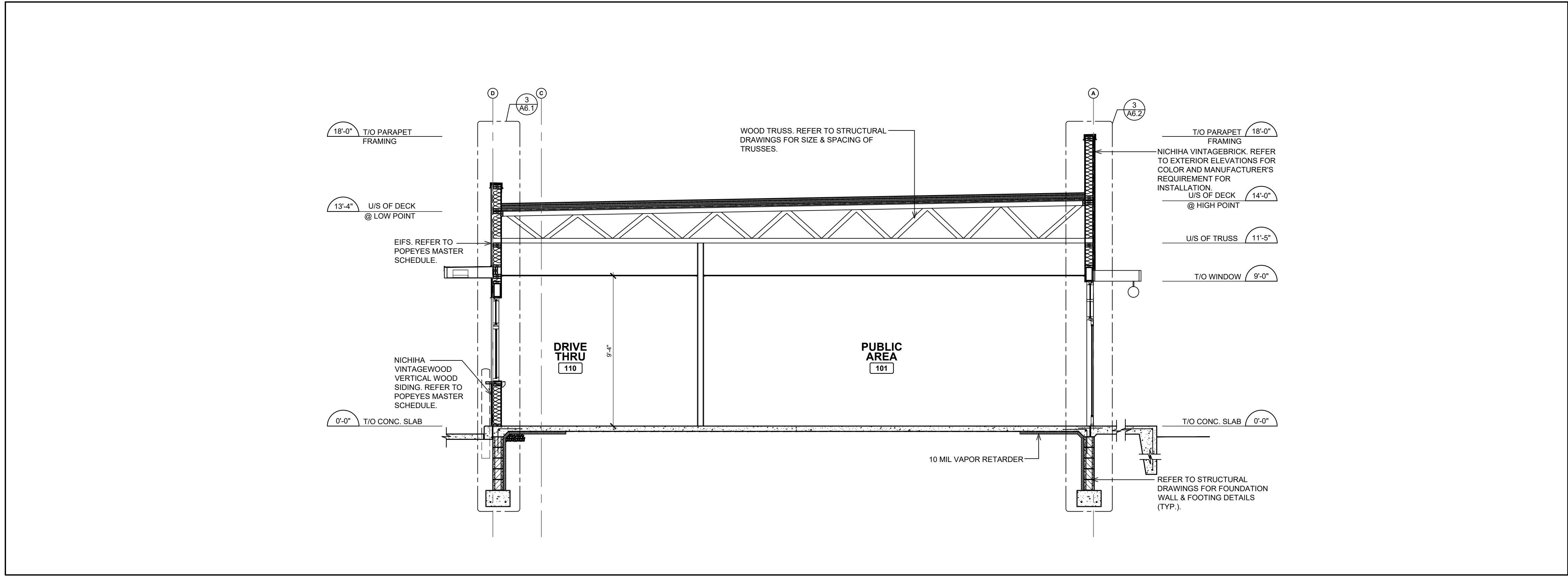


2 SCUPPER COLLECTOR DETAIL
SCALE: 1"=1'-0"



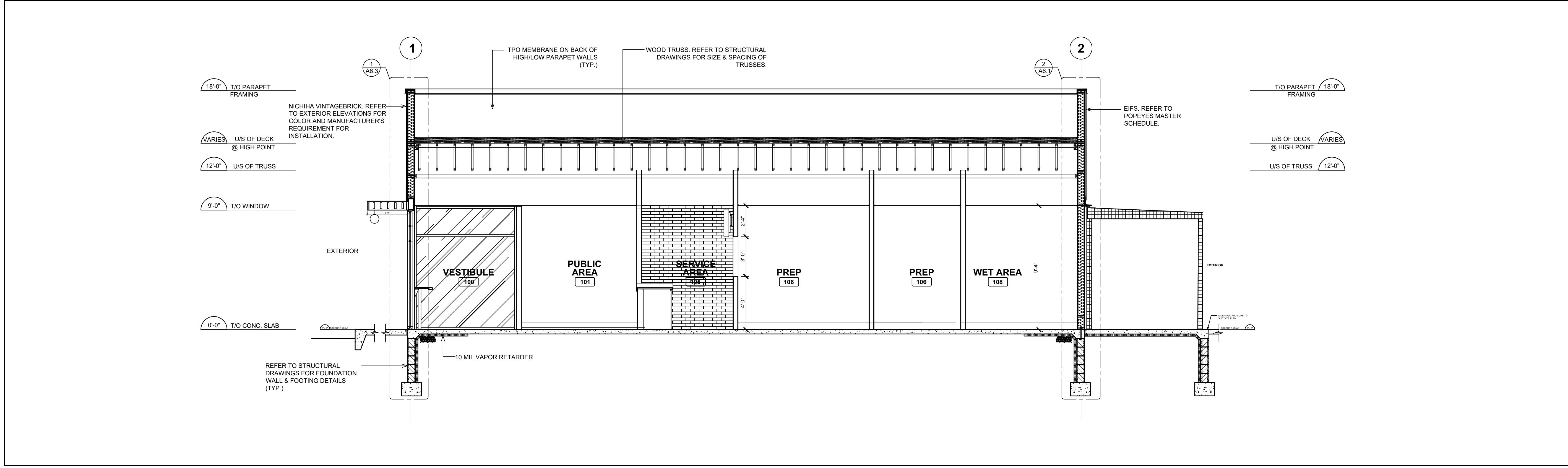
1 TYPICAL ROOF OPENING DETAIL AT PIPE PORTAL
SCALE: 2"=1'-0"

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



1 BUILDING SECTION
 A6 SCALE: 1/4" = 1'-0"

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




2 BUILDING SECTION
 A6 SCALE: 1/4" = 1'-0"

ISSUE TABLE		
No.	Date (mm/dd/yyyy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
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4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

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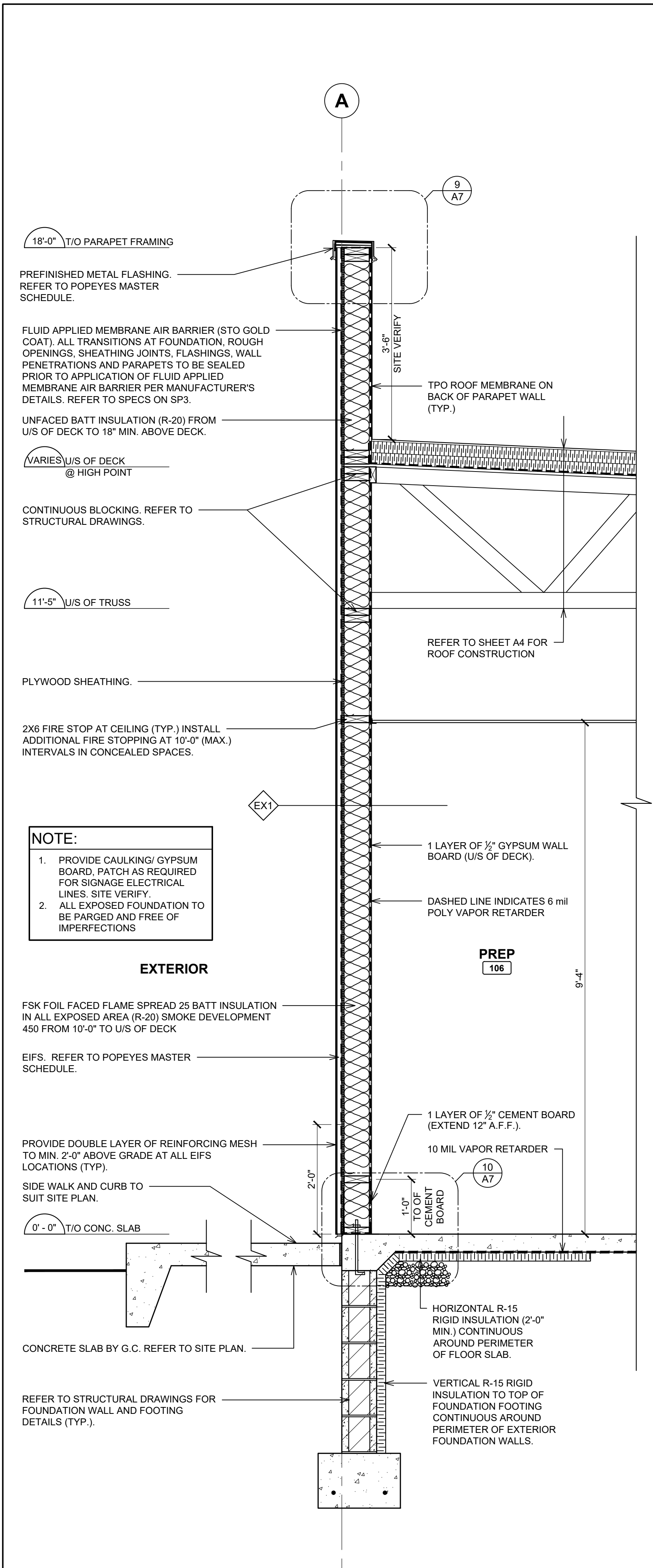
Store Type
 US 2112 PROTOTYPE
 2112-21

Location
 1517 NC 24-87
 CAMERON, NC

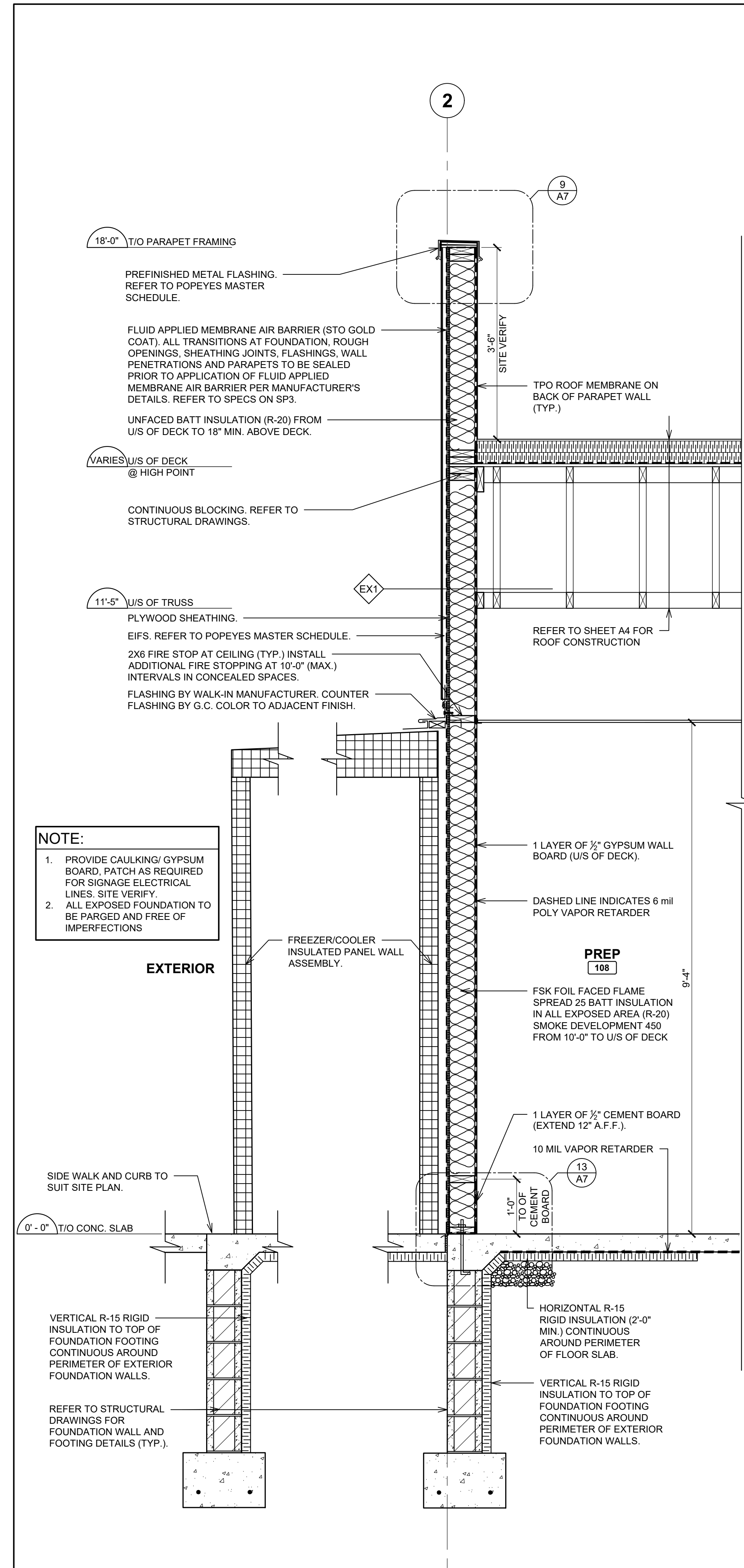
Drawing Title
 BUILDING SECTIONS

Drawn SH	Checked AL
Scale AS NOTED	Date JUNE 2023
Project No. C22-129	Drawing No. A6

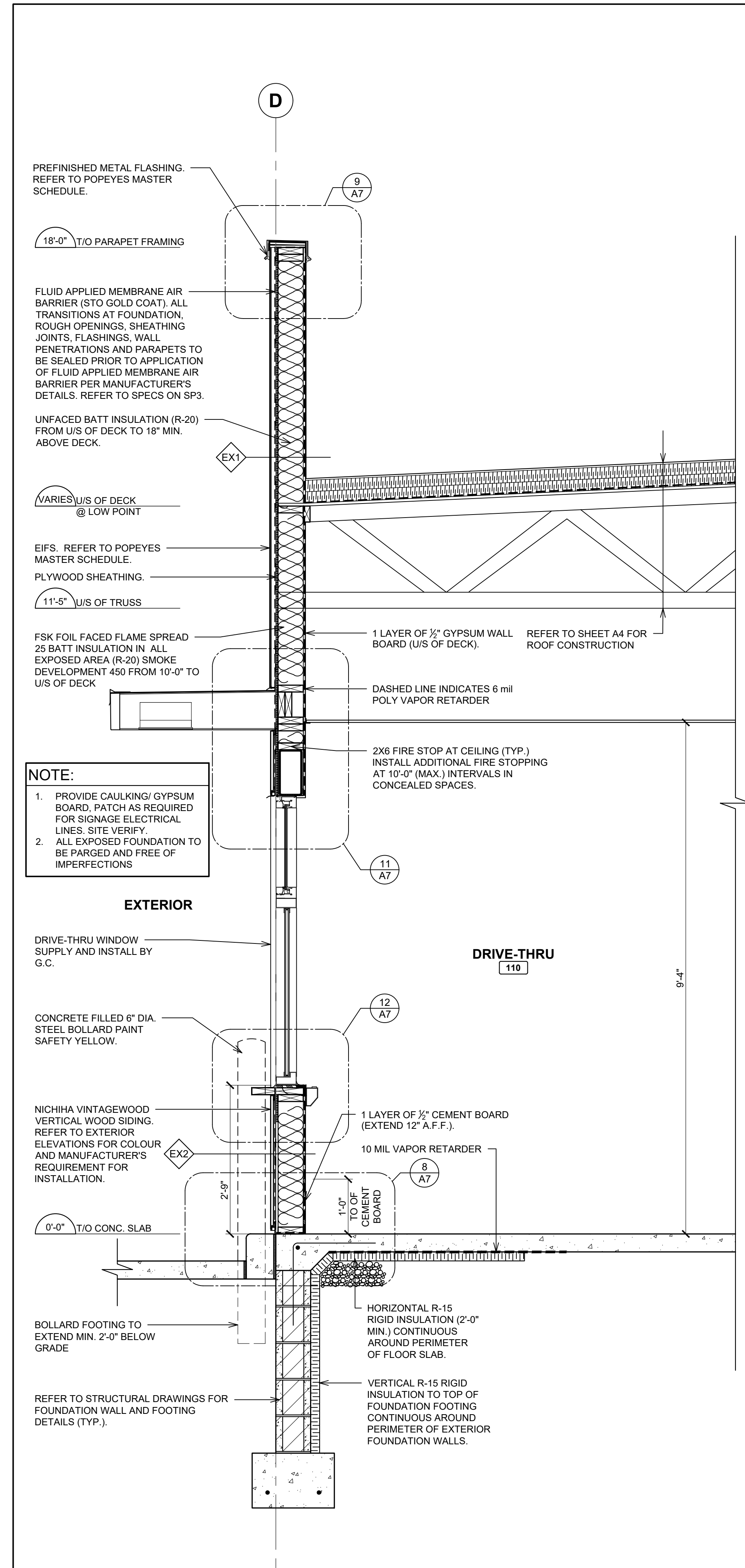
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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



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



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

ISSUE TABLE		
No.	Date (mm/dd/yyyy)	Description

REVISIONS		
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3	9/12/2023	RESPONSE TO CITY
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DRAWINGS REVISED AS PER DESIGN BULLETIN		
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Project



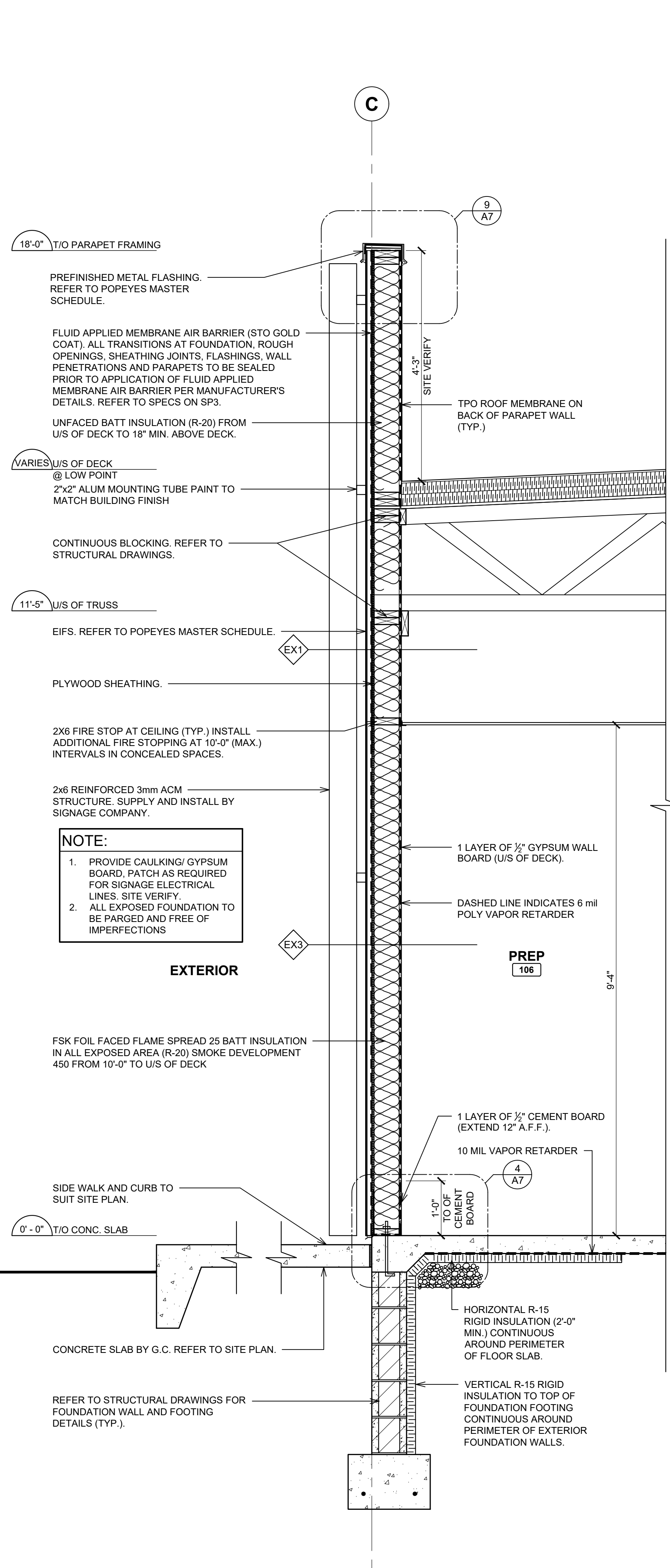
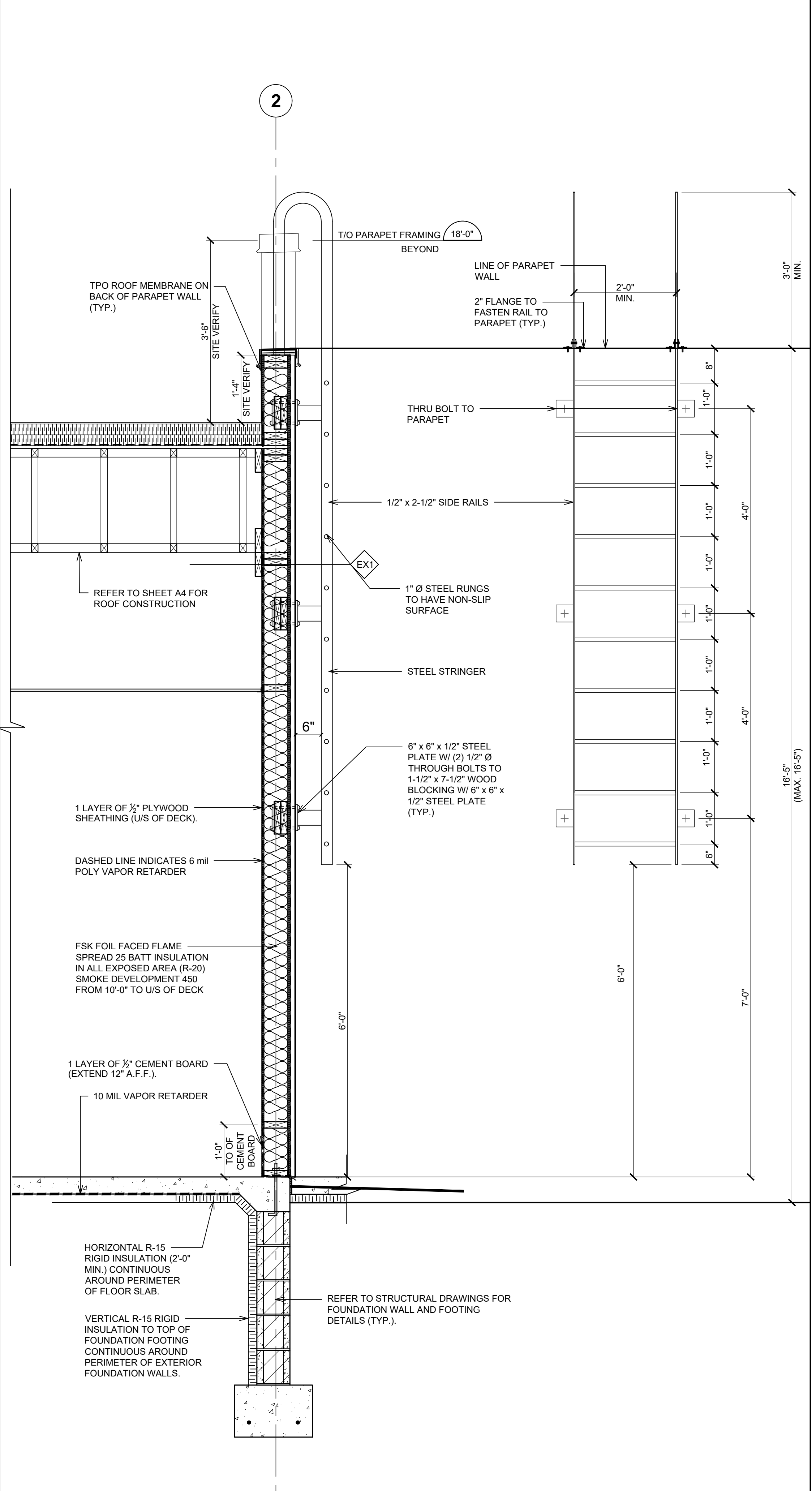
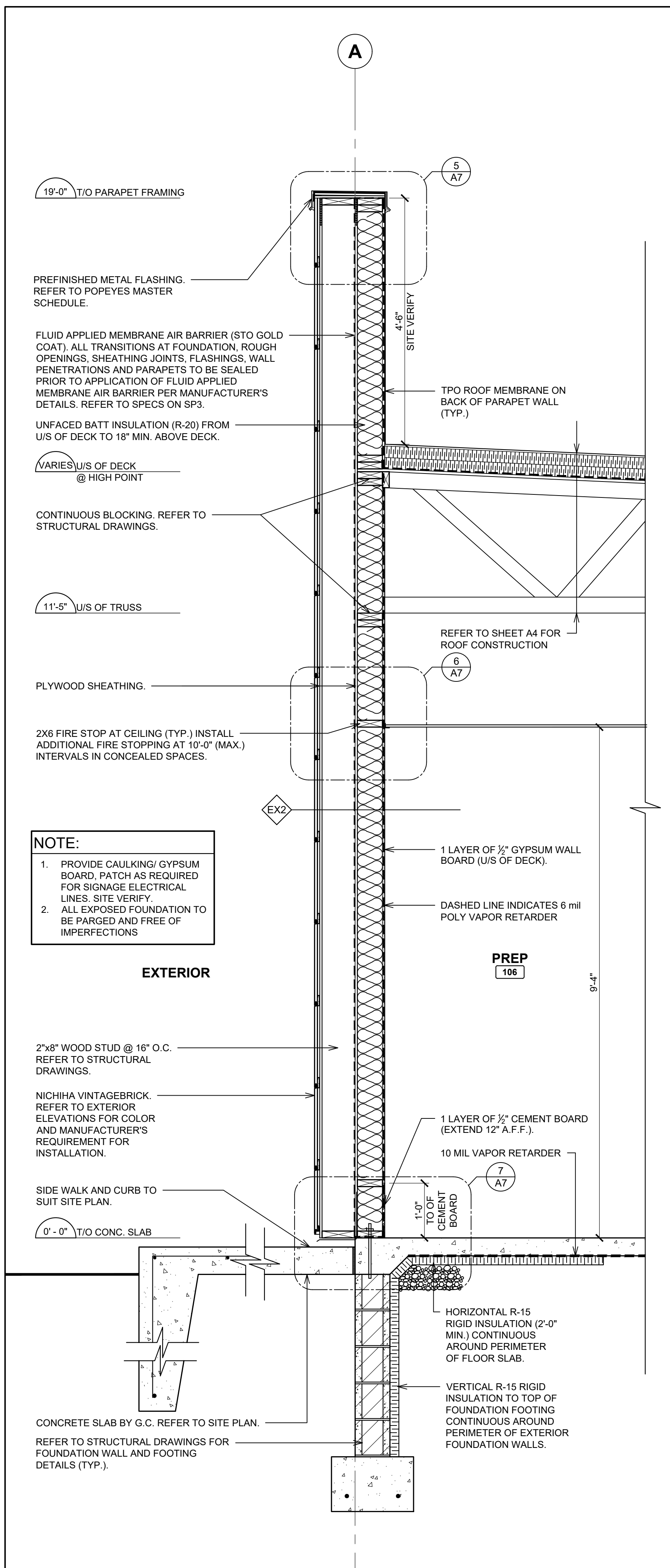
Store Type
US 2112 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
WALL SECTIONS

Drawn SH	Checked AL
Scale AS NOTED	Date JUNE 2023
Project No. C22-129	Drawing No. A6.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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DRAWINGS REVISED AS PER DESIGN BULLETIN		
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LOUISIANA KITCHEN
POPEYES

Store Type

US 2112 PROTOTYPE
2112-21

Location

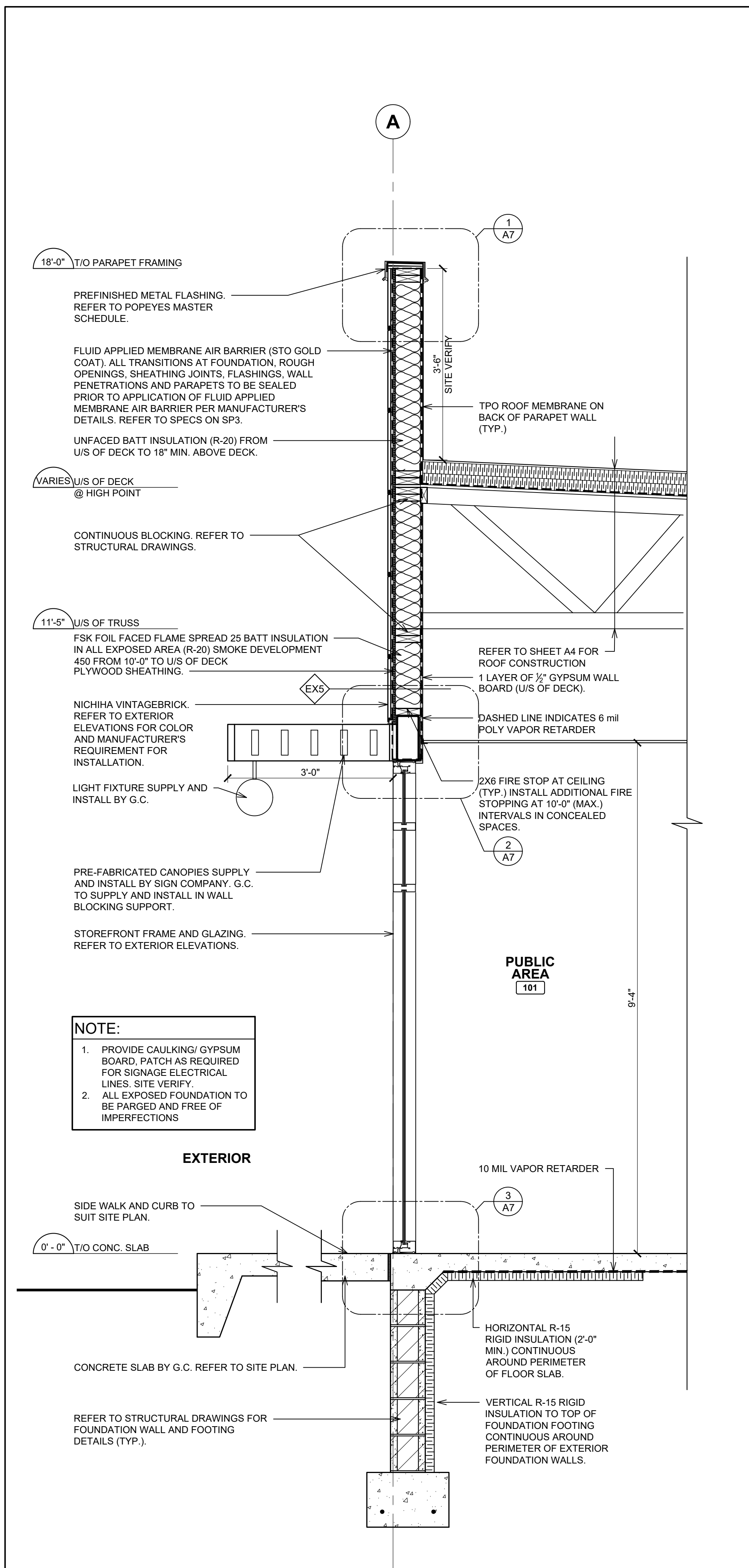
1517 NC 24-87
CAMERON, NC

Drawing Title

WALL SECTIONS

Drawn	SH	Checked	AL
Scale	AS NOTED	Date	JUNE 2023
Project No.	C22-129	Drawing No.	A6.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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

1 WALL SECTION @ FEATURE WALL
 SCALE: 3/4" = 1'-0"

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
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Project

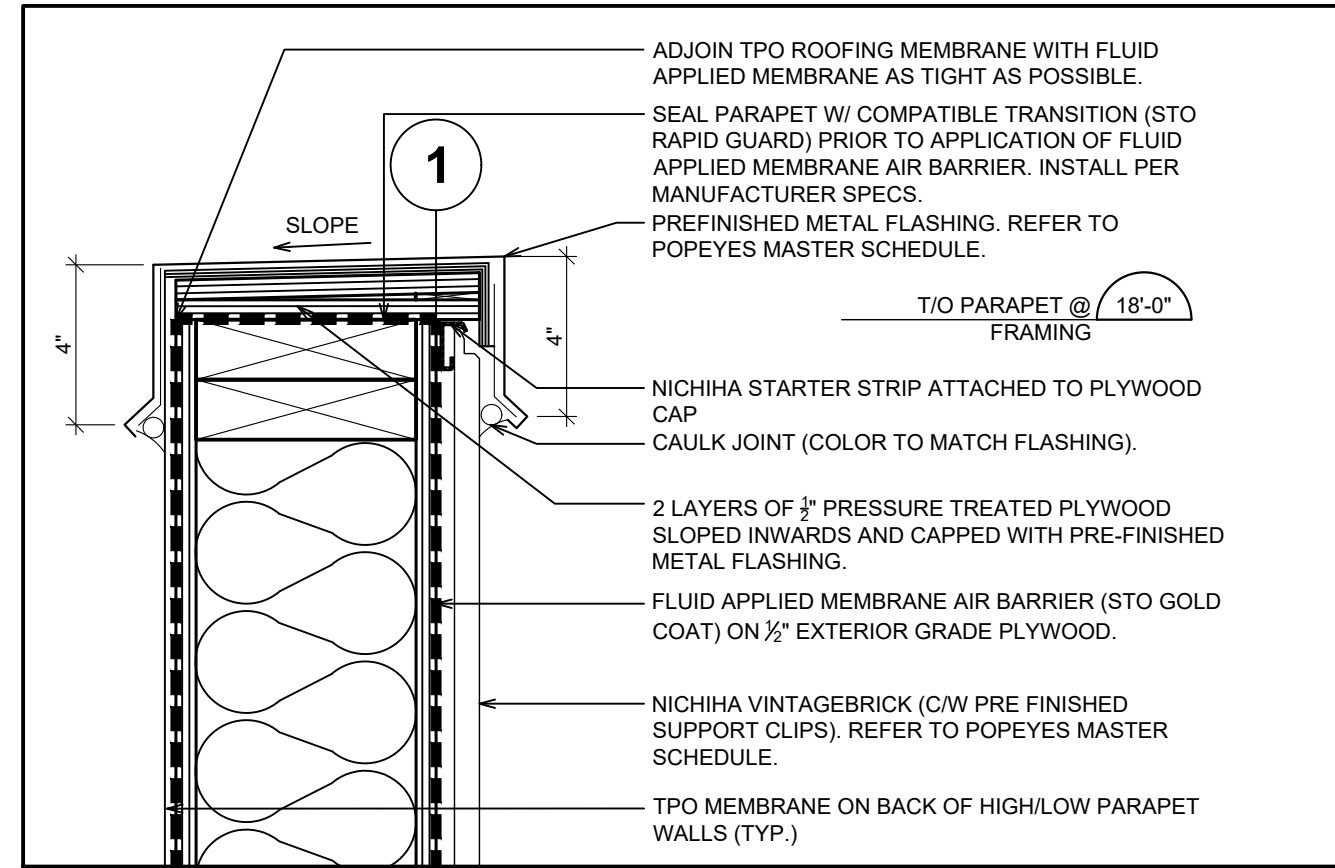
Store Type
 US 2112 PROTOTYPE
 2112-21

Location
 1517 NC 24-87
 CAMERON, NC

Drawing Title
 WALL SECTIONS

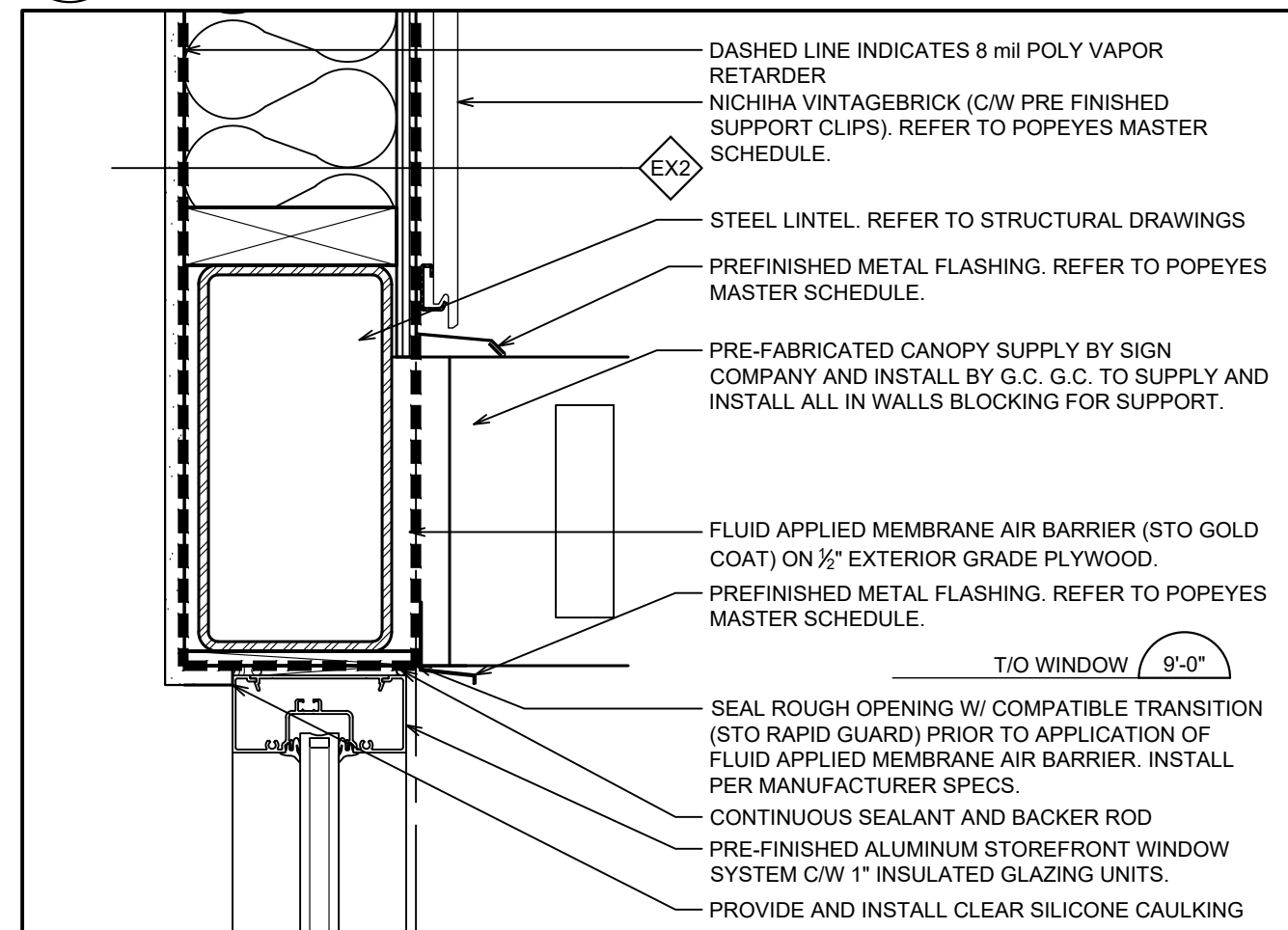
Drawn SH	Checked AL
Scale AS NOTED	Date JUNE 2023
Project No. C22-129	Drawing No. A6.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



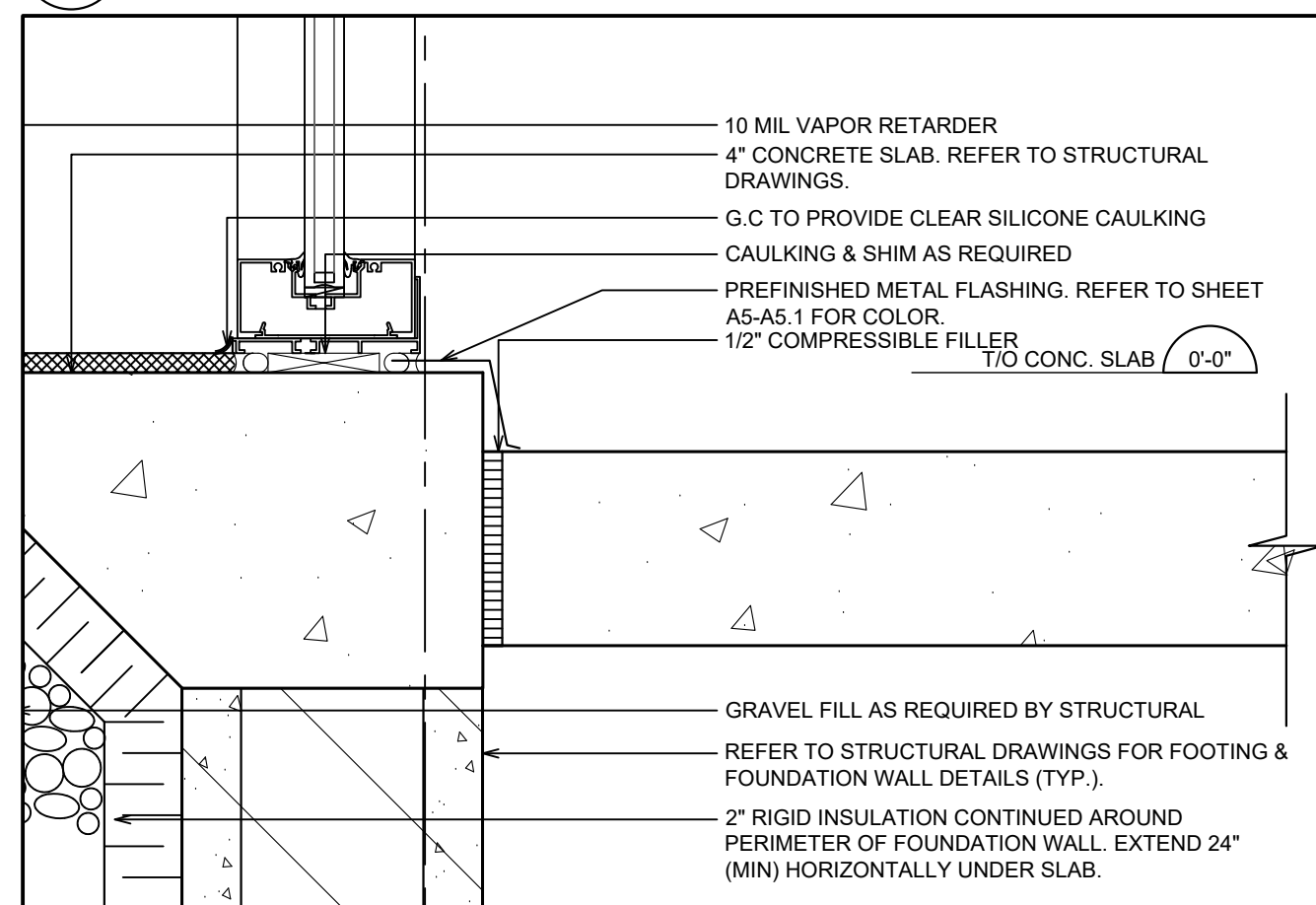
1 SECTION DETAIL @ PARAPET (SIDING)

A7 SCALE: 2-1/2" = 1'-0"



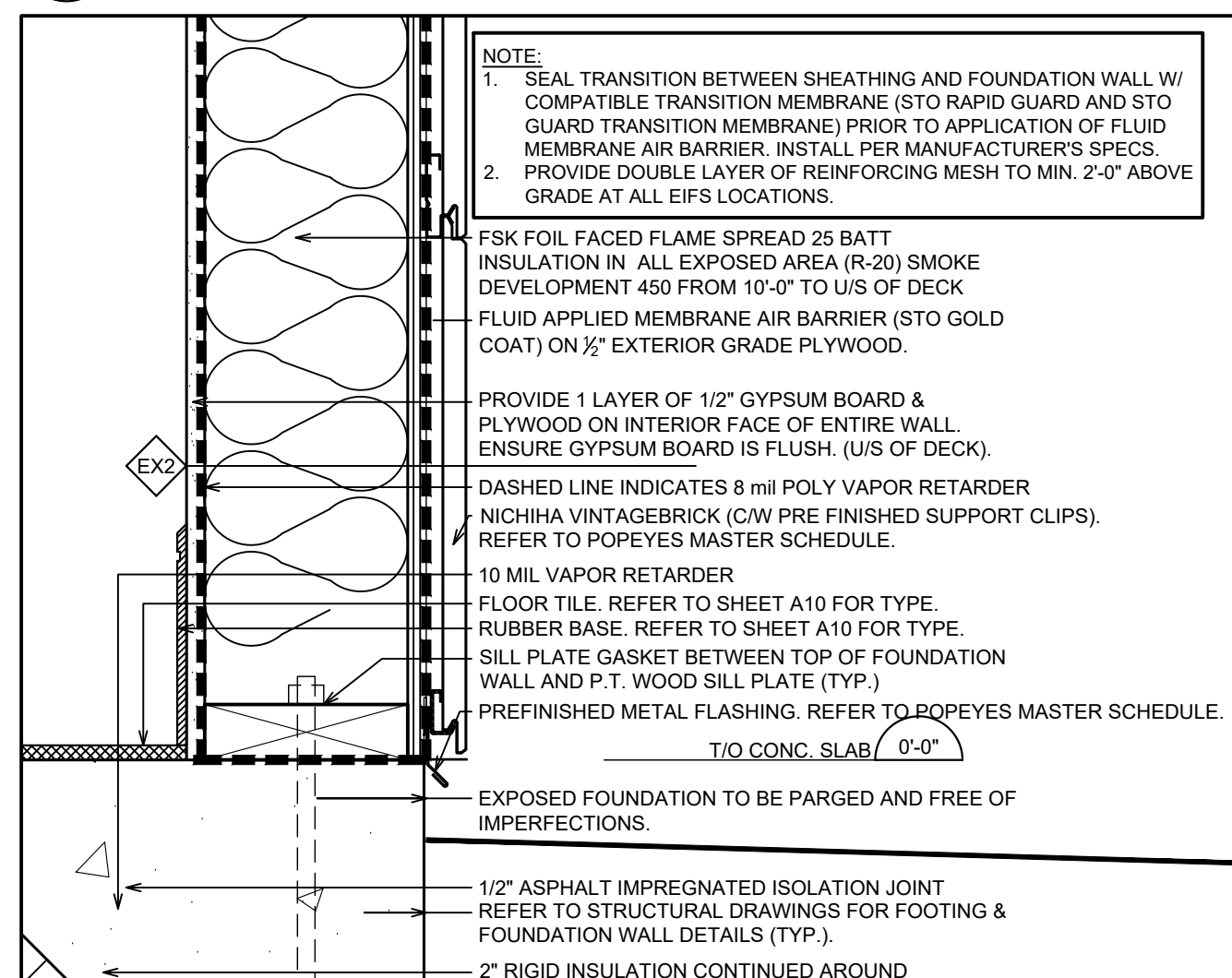
2 SECTION DETAIL @ WINDOW HEAD AT EIFS

A7 SCALE: 2-1/2" = 1'-0"



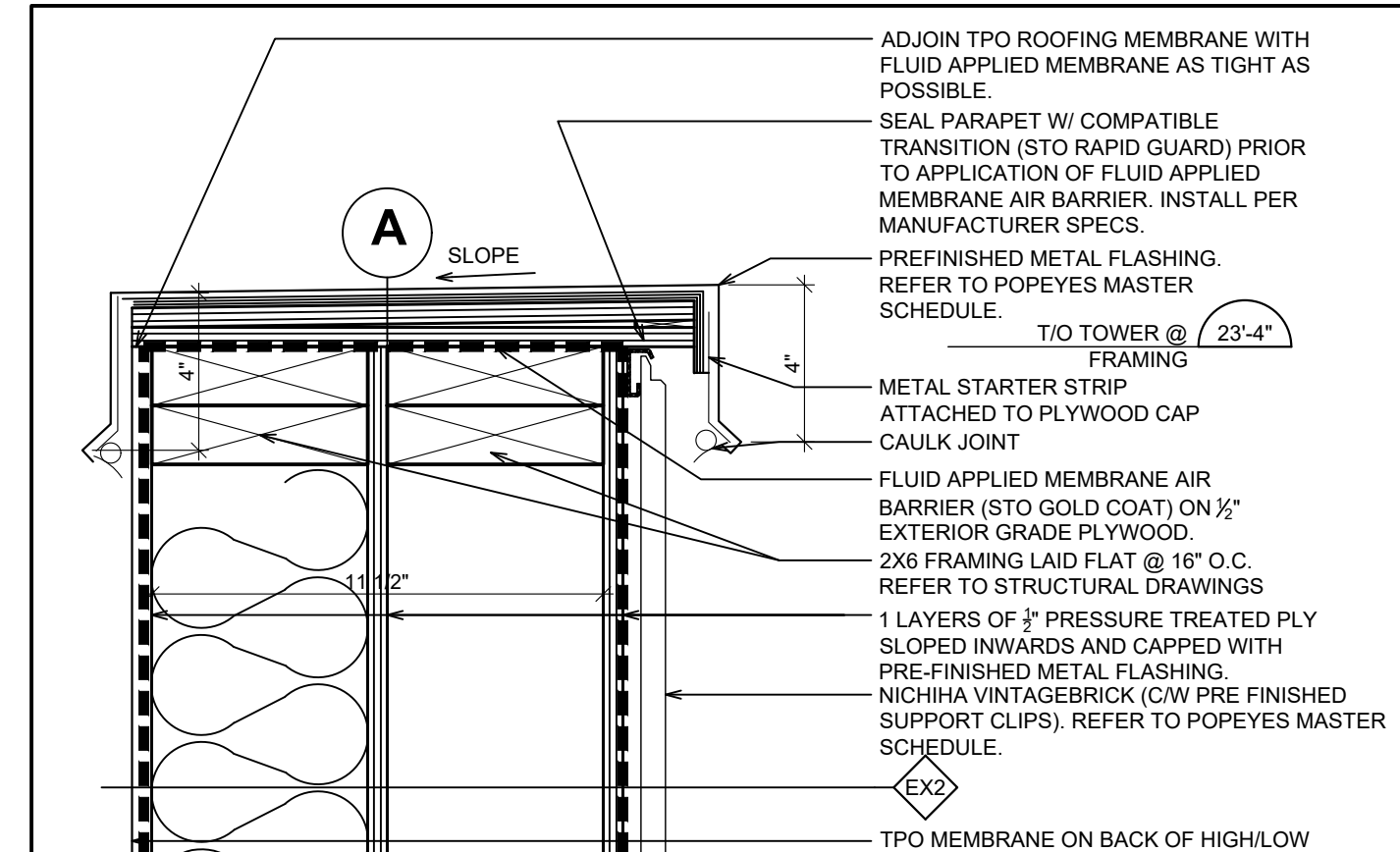
3 SECTION DETAIL @ FOUNDATION (WINDOW)

A7 SCALE: 2-1/2" = 1'-0"



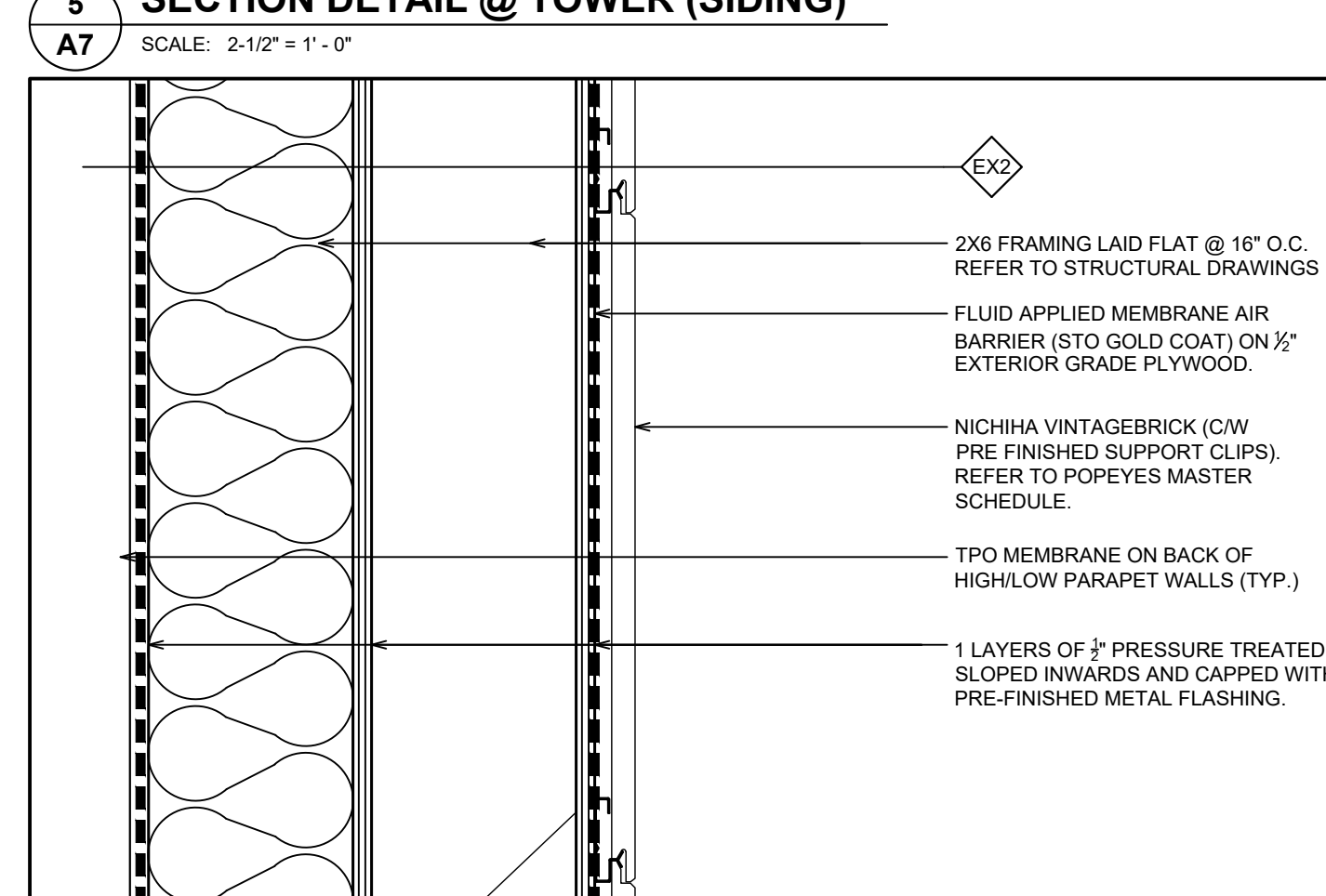
4 SECTION DETAIL @ FOUNDATION (WINDOW)

A7 SCALE: 2-1/2" = 1'-0"



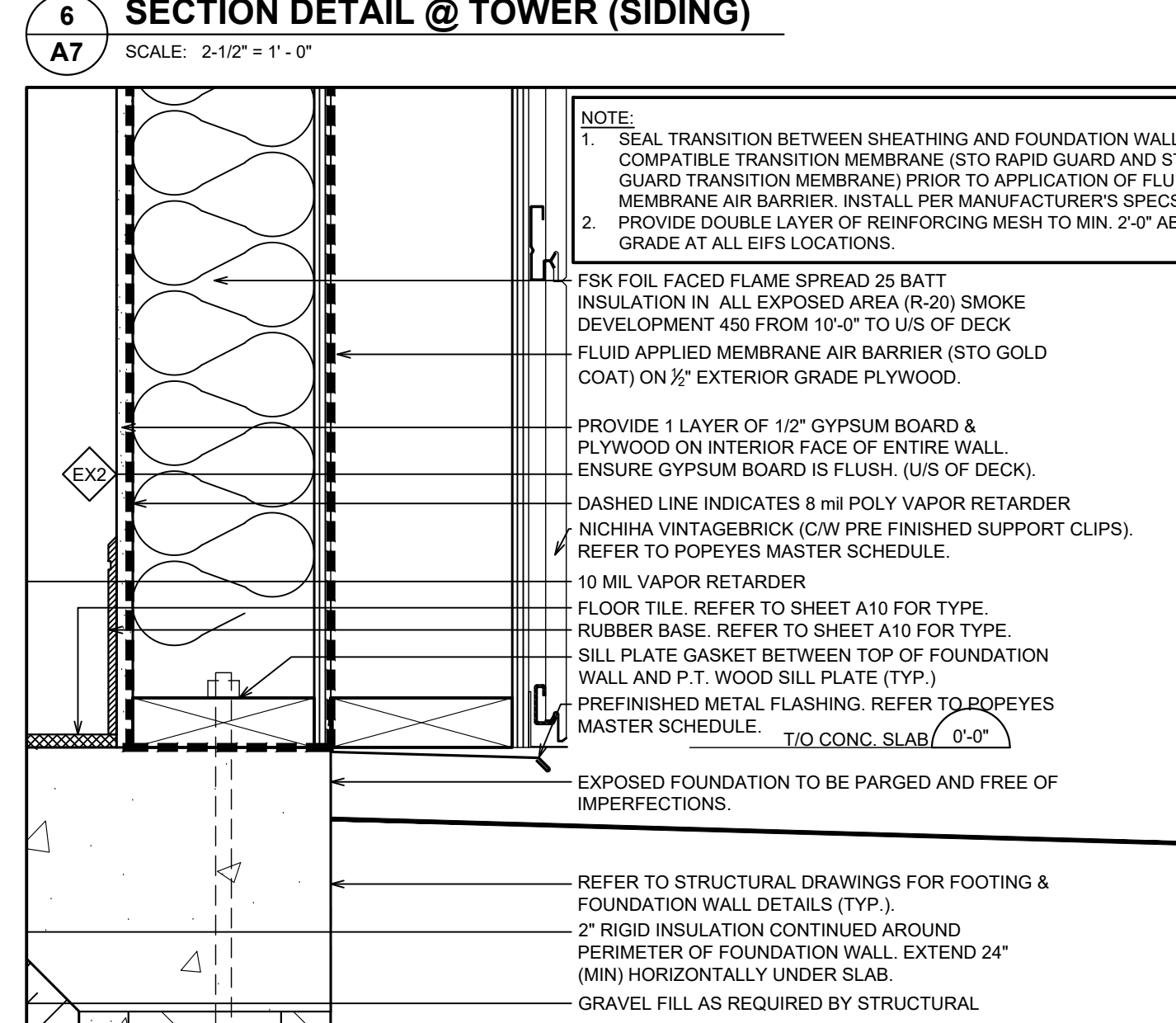
5 SECTION DETAIL @ TOWER (SIDING)

A7 SCALE: 2-1/2" = 1'-0"



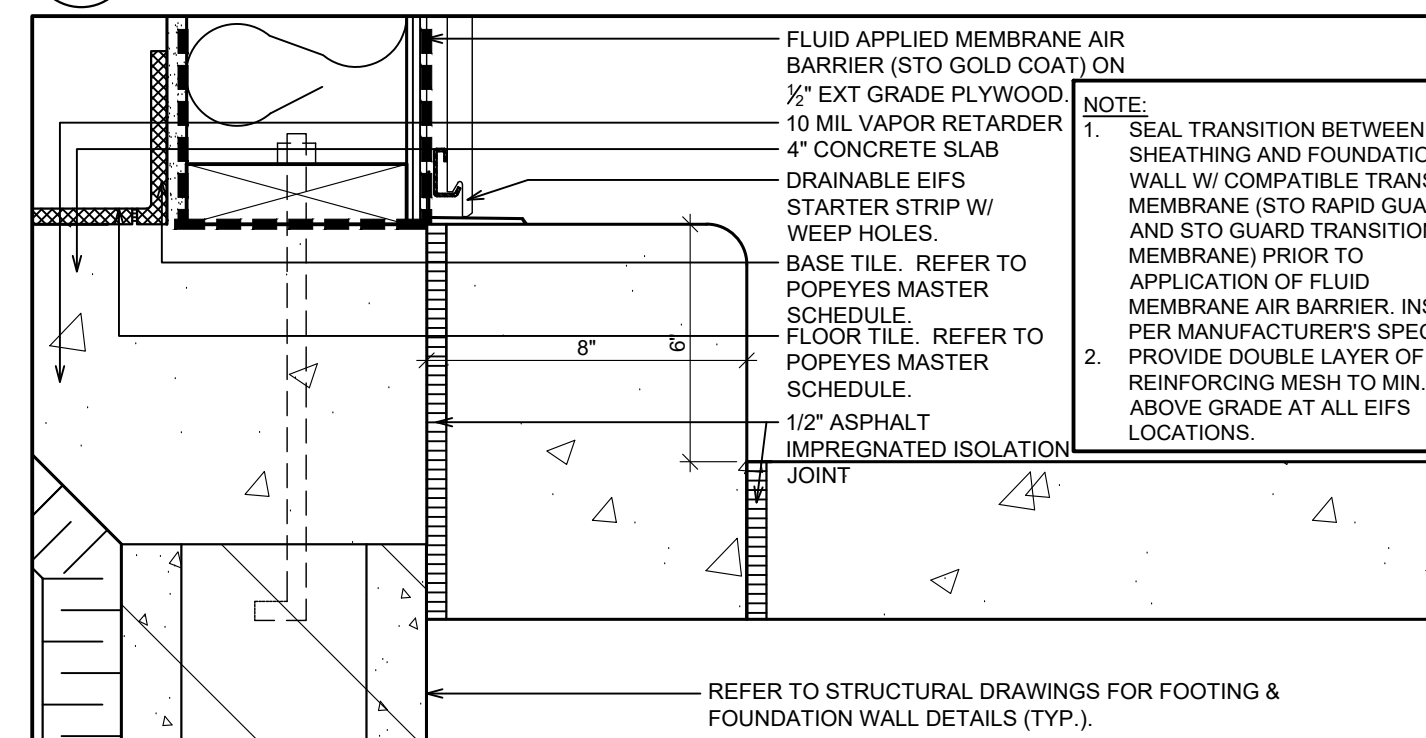
6 SECTION DETAIL @ TOWER (SIDING)

A7 SCALE: 2-1/2" = 1'-0"



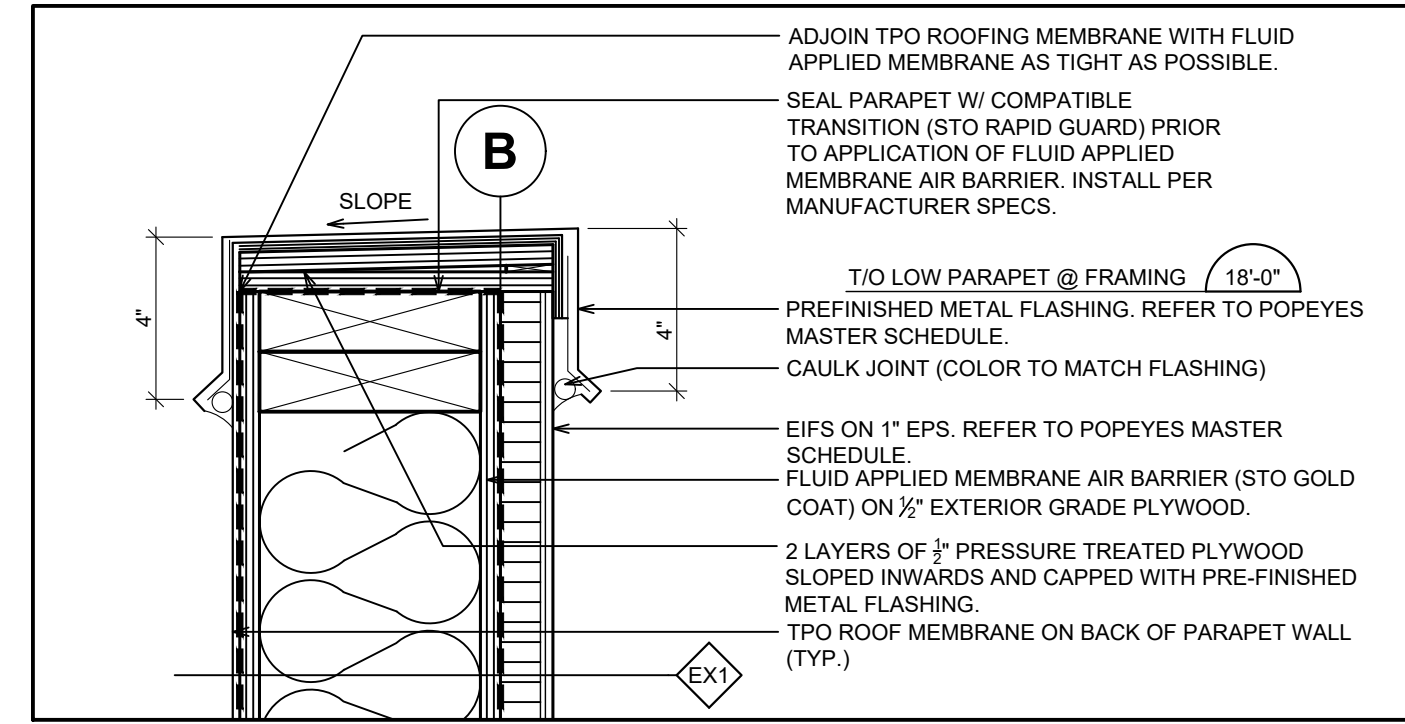
7 SECTION DETAIL @ FOUNDATION (SIDING @ TOWER)

A7 SCALE: 2-1/2" = 1'-0"



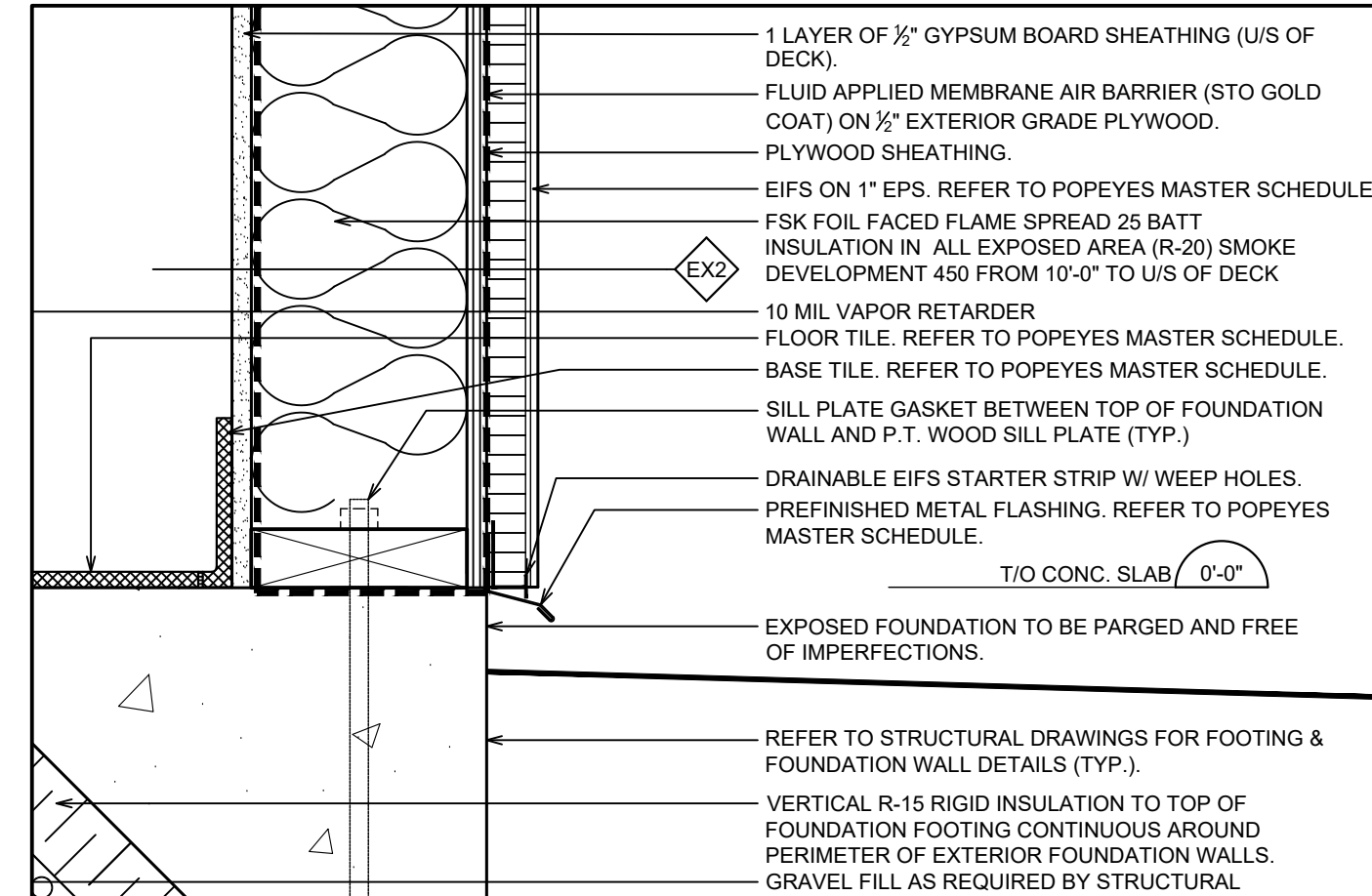
8 SECTION DETAIL @ FOUNDATION (D/T WINDOW)

A7 SCALE: 2-1/2" = 1'-0"



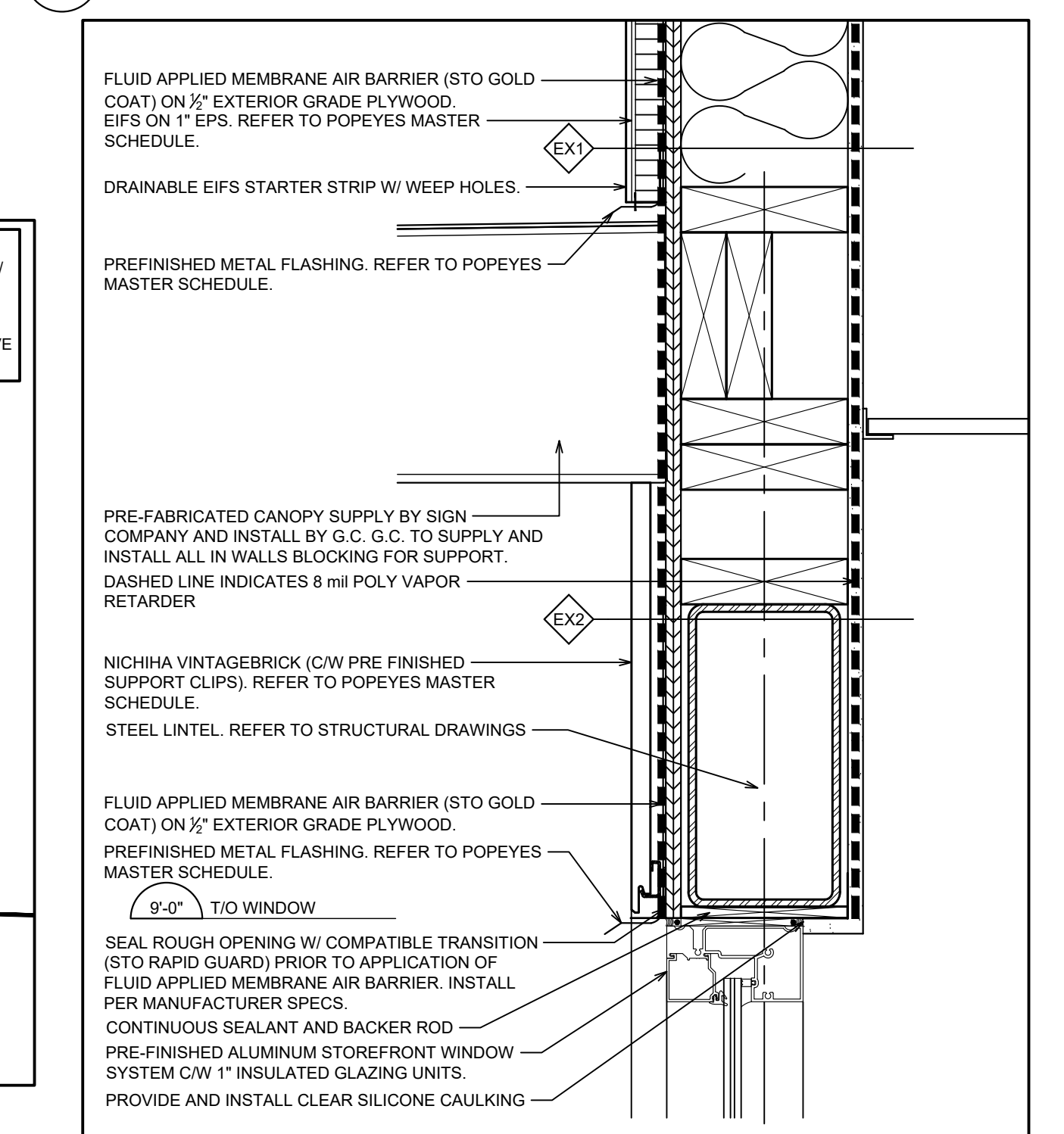
9 SECTION DETAIL @ PARAPET (TYPICAL EIFS)

A7 SCALE: 2-1/2" = 1'-0"



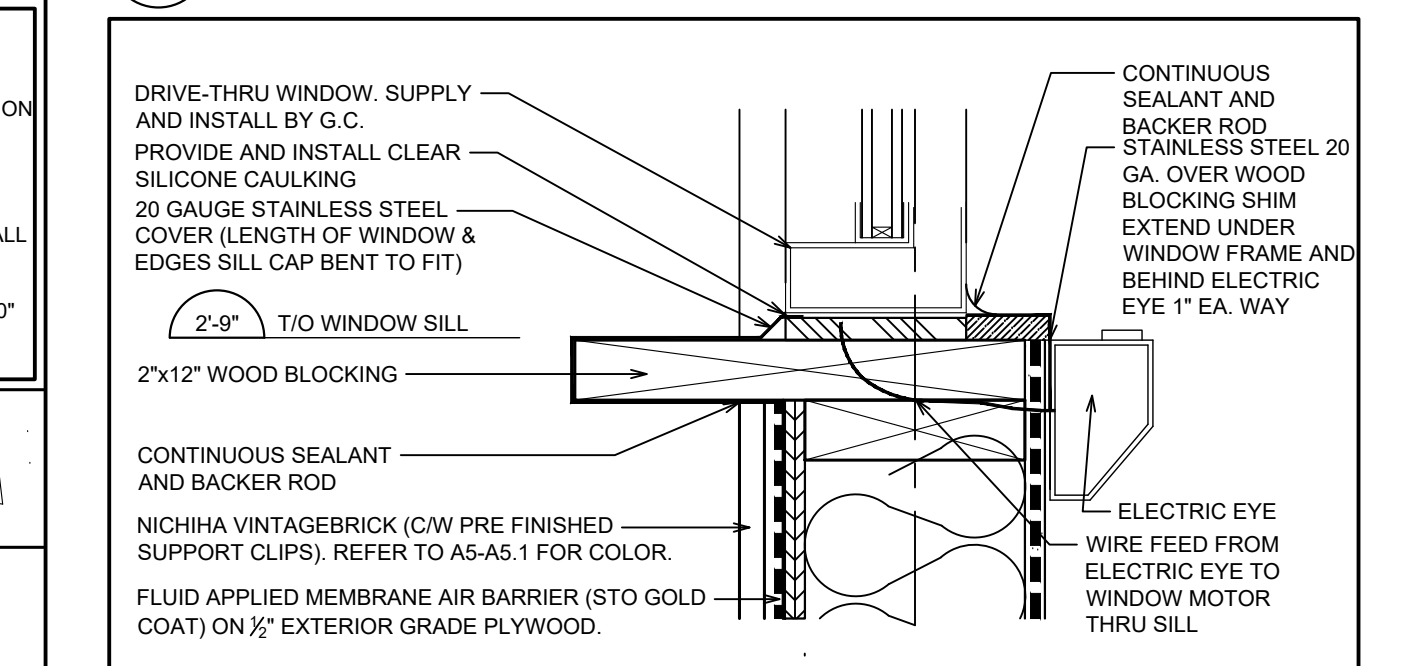
10 SECTION DETAIL @ FOUNDATION (EIFS)

A7 SCALE: 2-1/2" = 1'-0"



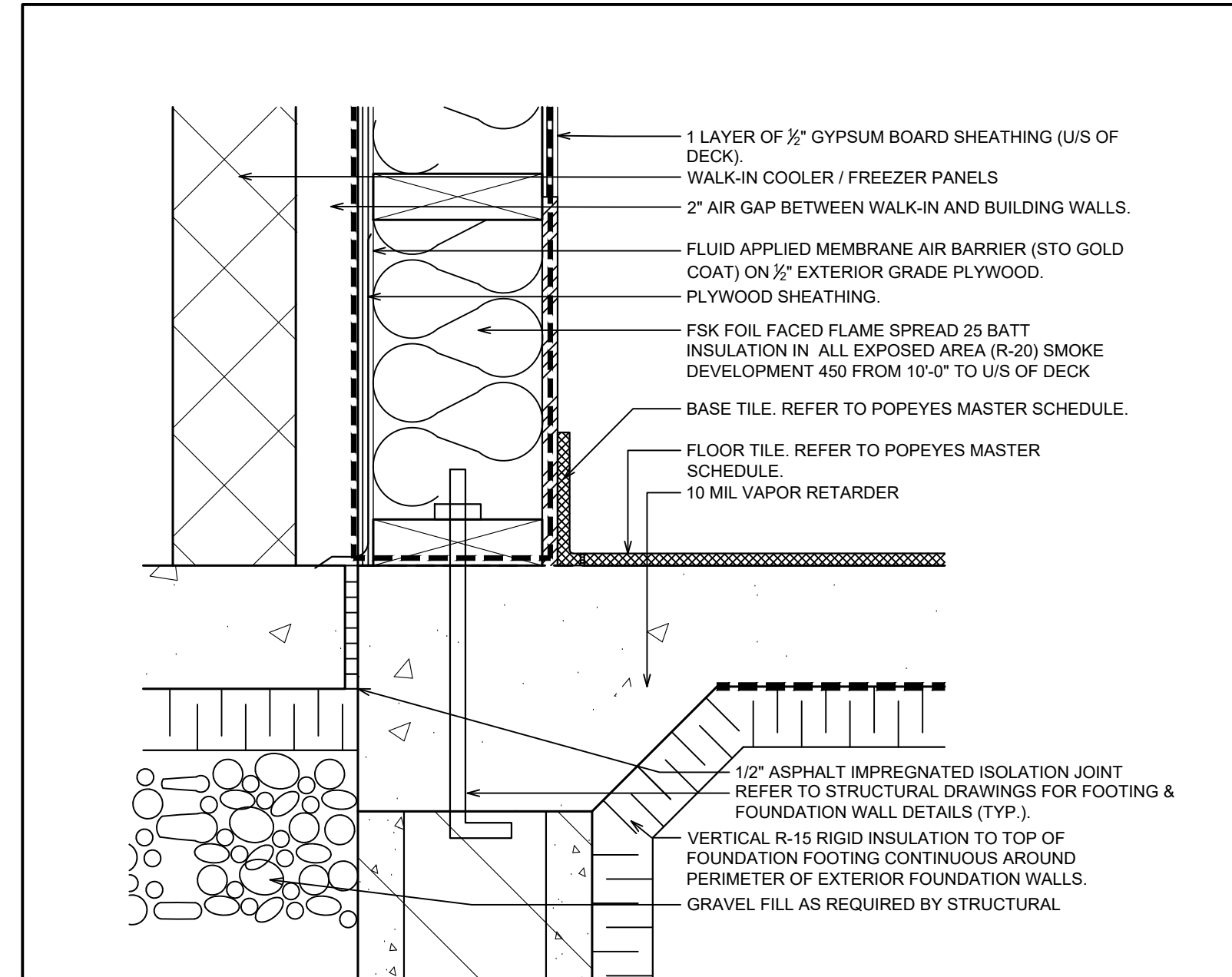
11 SECTION DETAIL @ DRIVE-THRU WINDOW HEADER

A7 SCALE: 2-1/2" = 1'-0"



12 SECTION DETAIL @ DRIVE-THRU WINDOW SILL

A7 SCALE: 2-1/2" = 1'-0"



13 SECTION DETAIL @ WALK-IN BOX

A7 SCALE: 2-1/2" = 1'-0"

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

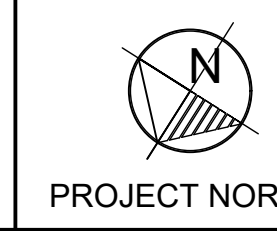
REVISIONS

No.	Date	Description
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5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

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Project

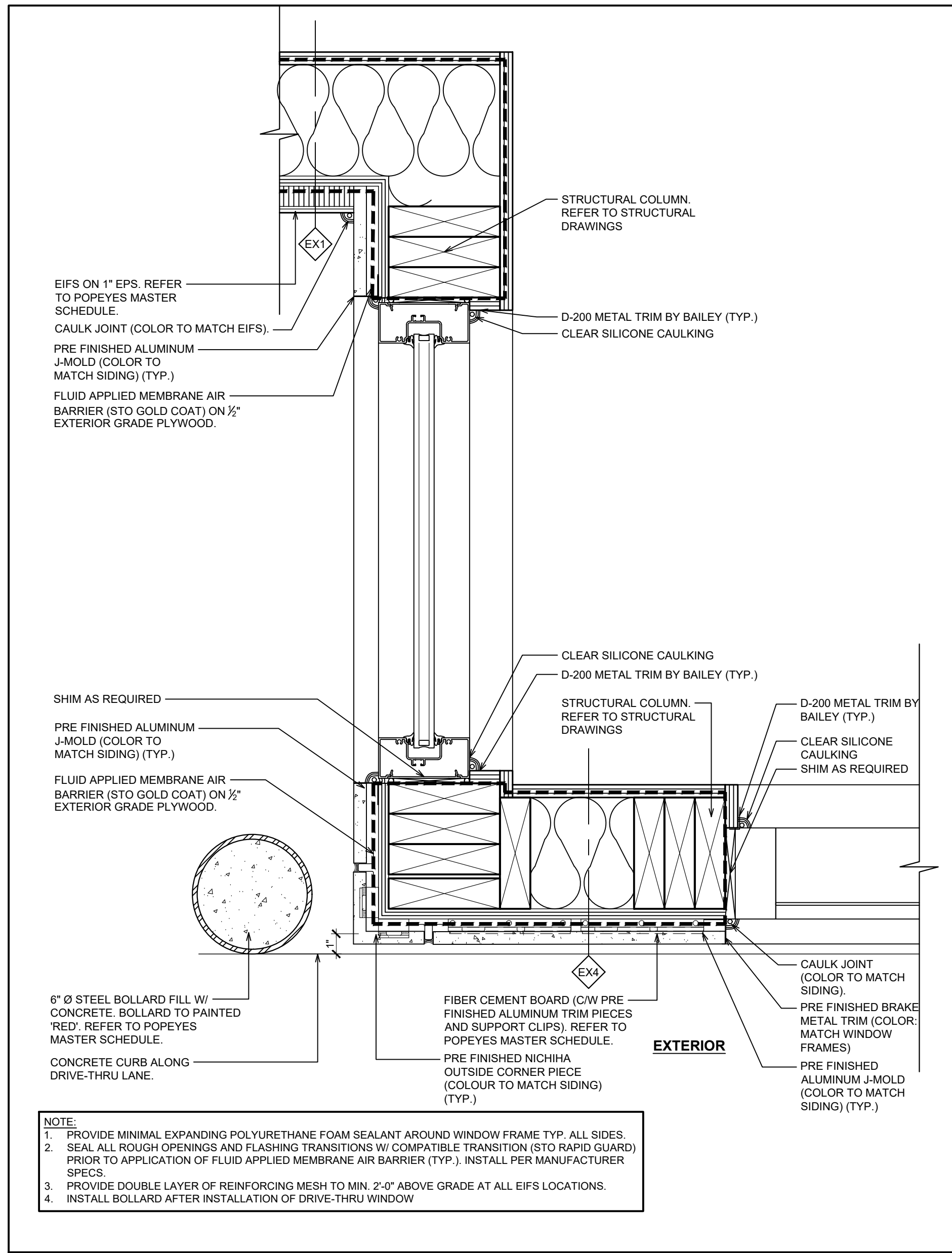
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

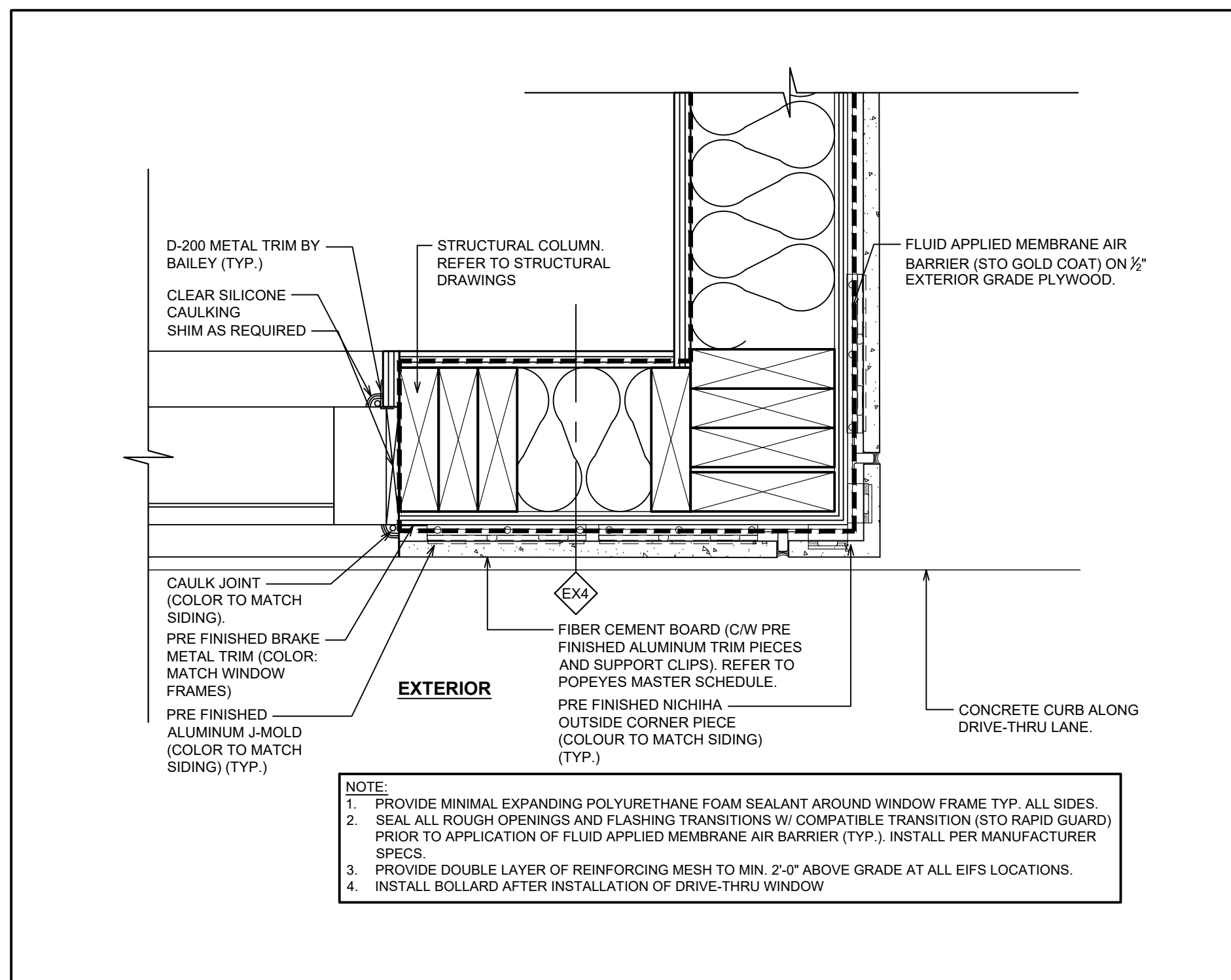
Location
1517 NC 24-87
CAMERON, NC

Drawing Title
SECTION DETAILS

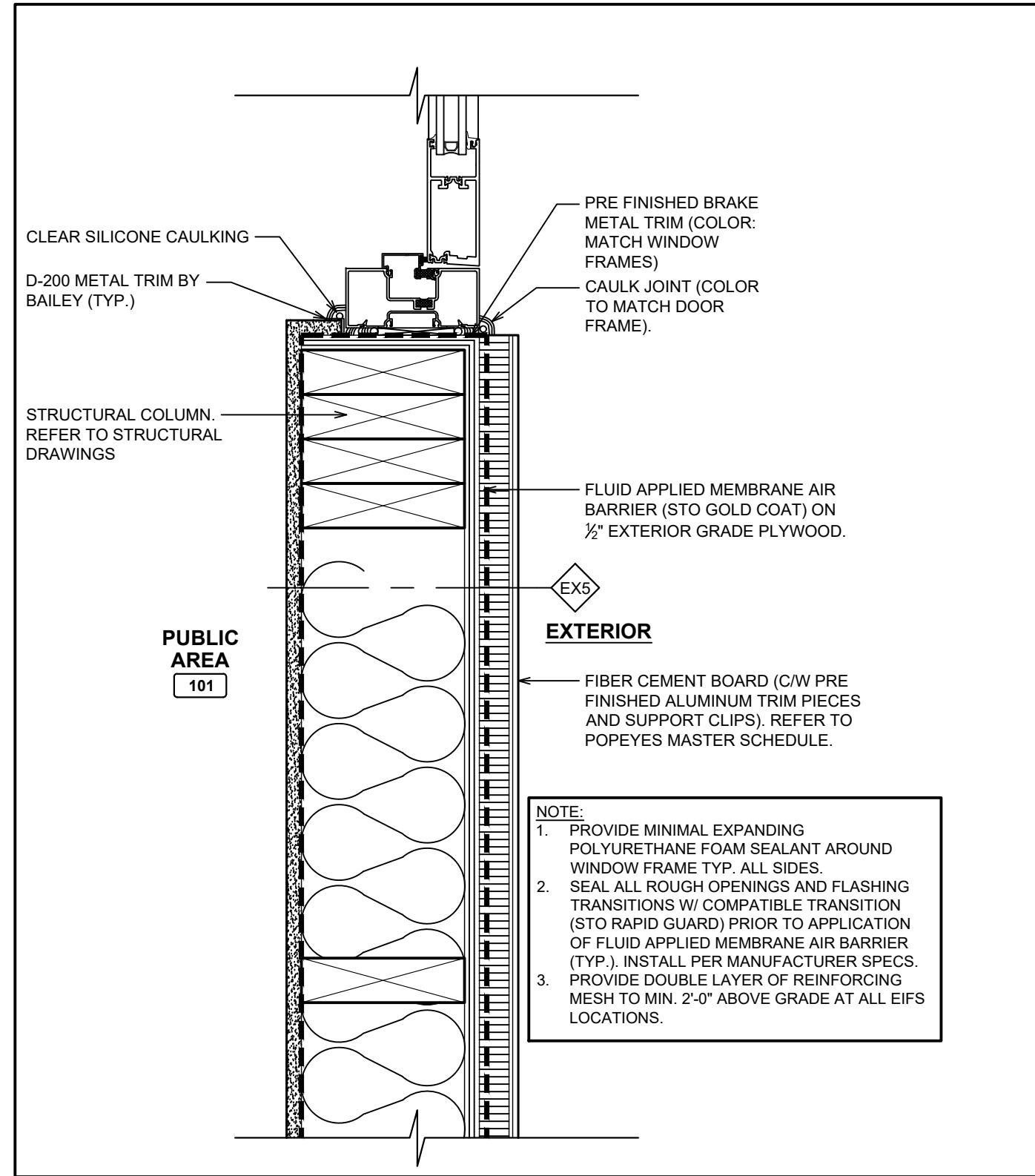
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Scale	AS NOTED	Date	JUNE 2023
Project No.	C22-129	Drawing No.	A7



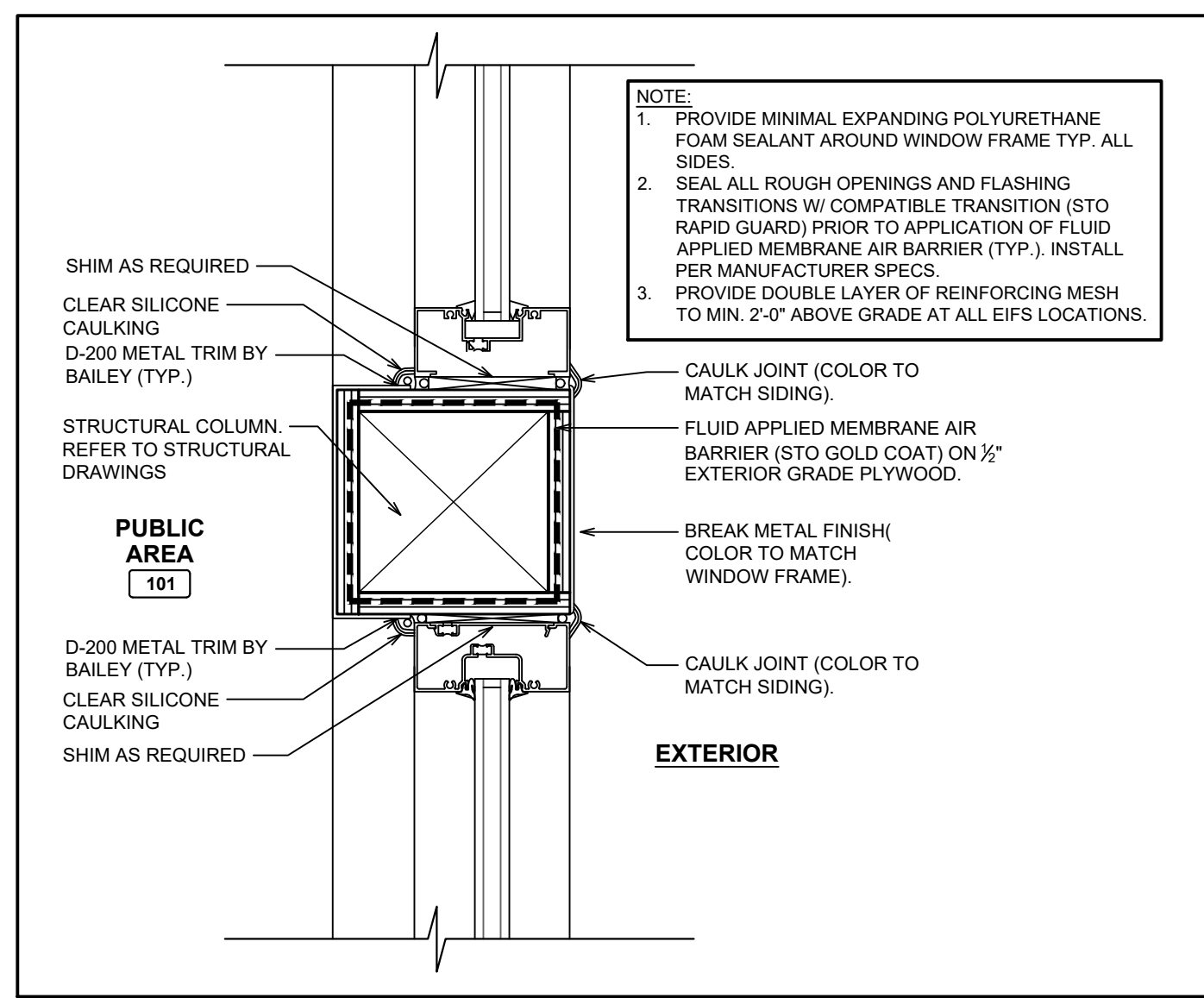
1 PLAN DETAIL @ DRIVE-THRU WINDOW
A7.1 SCALE: 2 1/2"=1'-0"



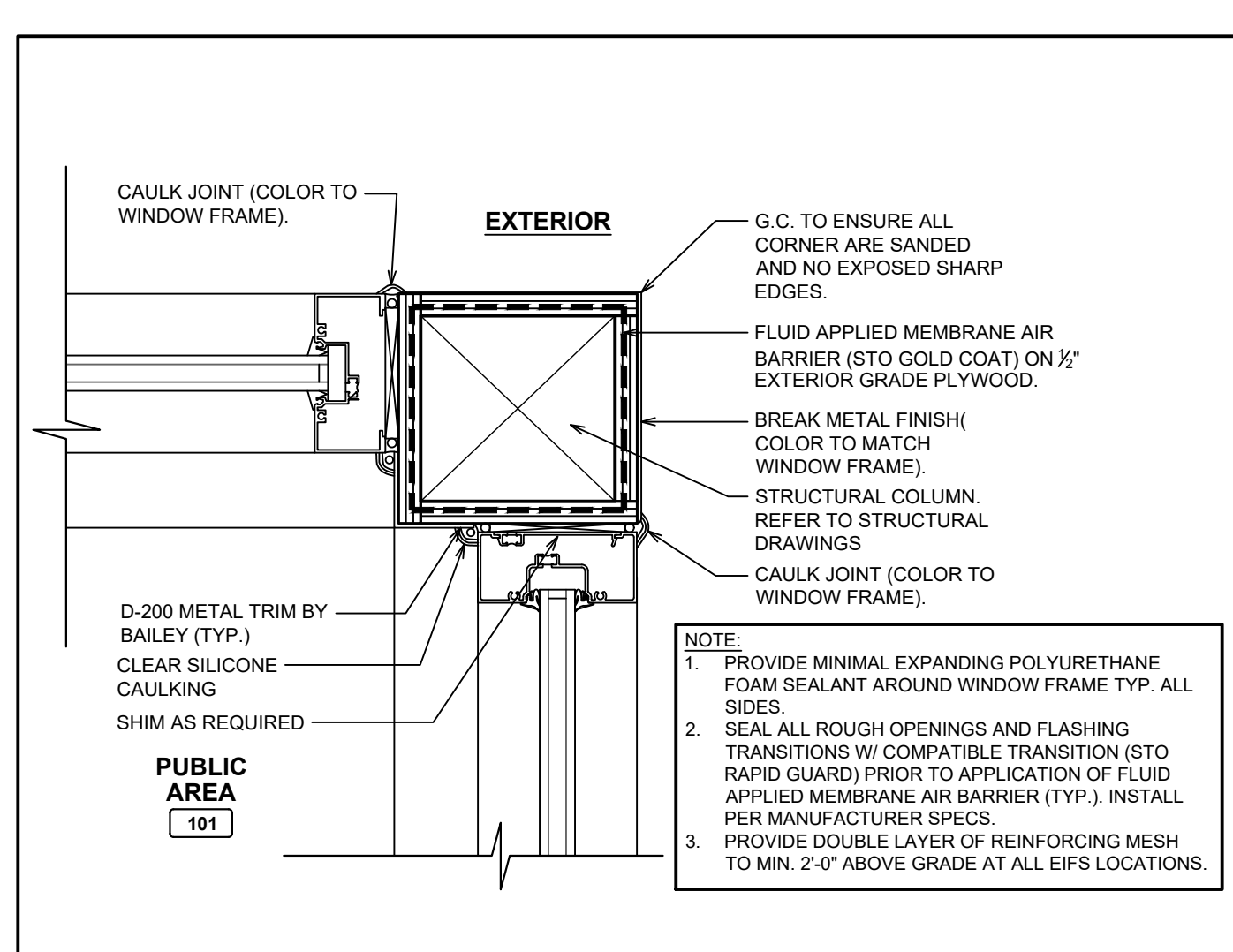
2 PLAN DETAIL @ DRIVE-THRU BUMP OUT
A7.1 SCALE: 2 1/2"=1'-0"



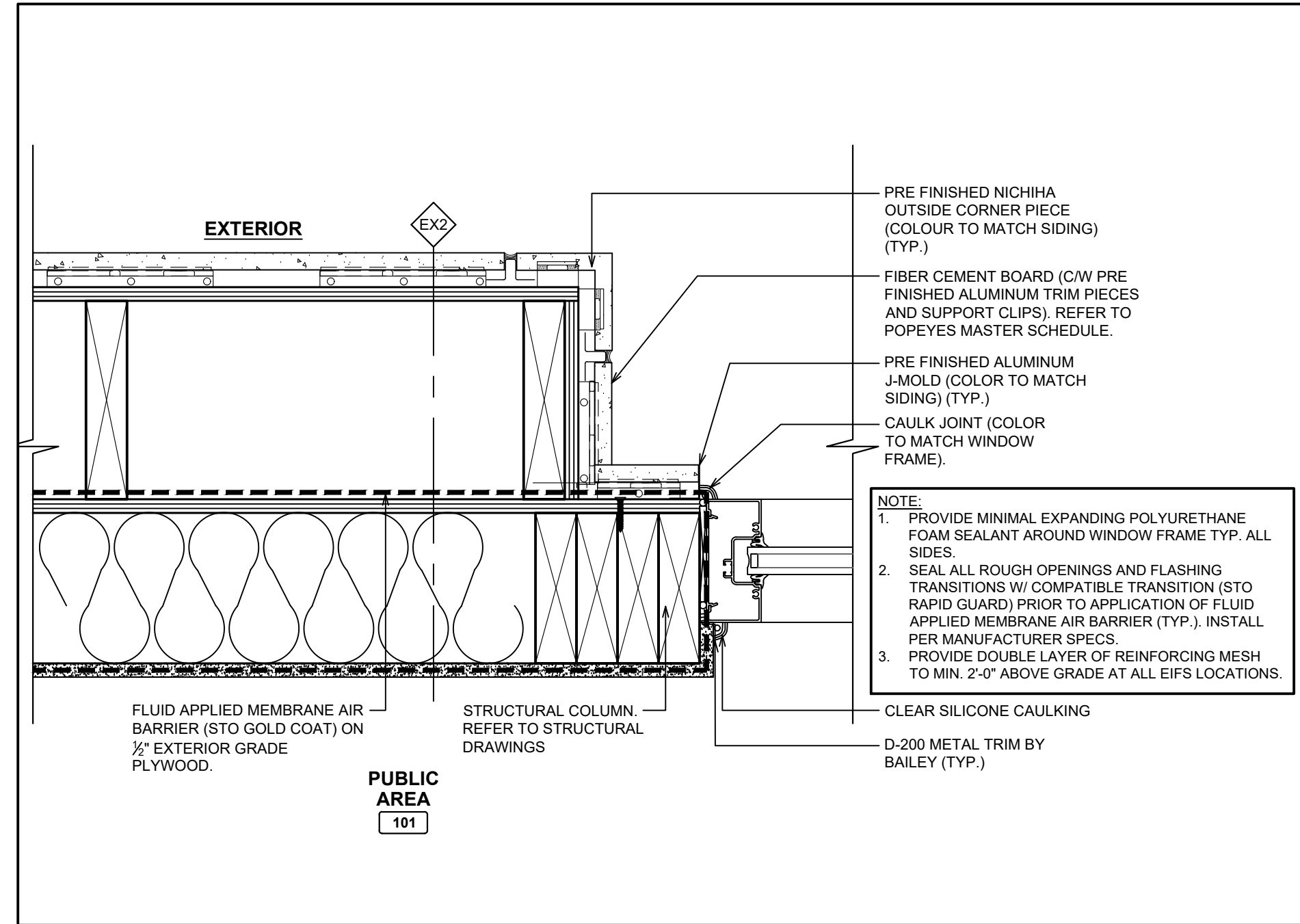
3 PLAN DETAIL @ DOOR
A7.1 SCALE: 2 1/2"=1'-0"



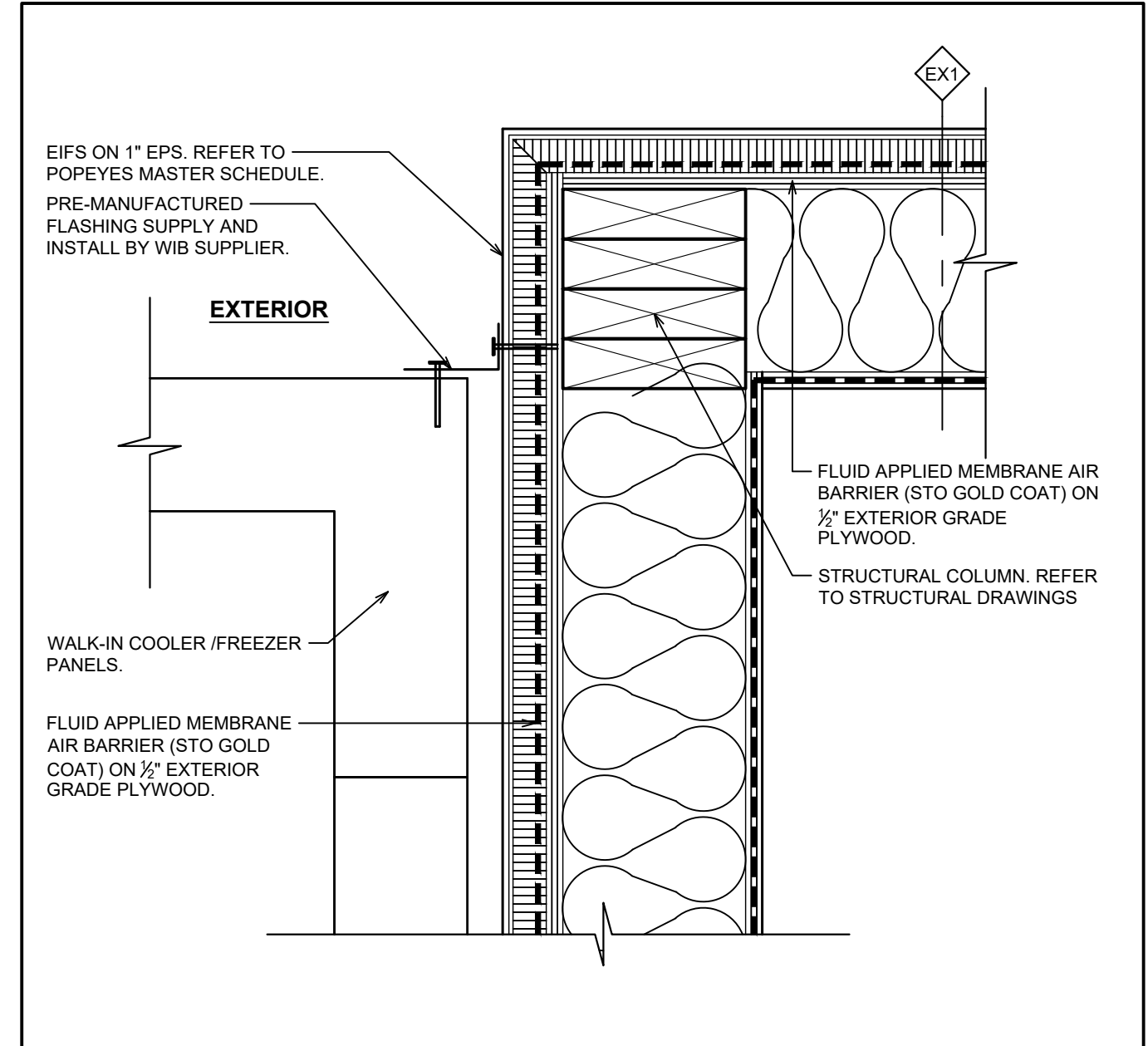
4 PLAN DETAIL @ WINDOW FRAME
A7.1 SCALE: 2 1/2"=1'-0"



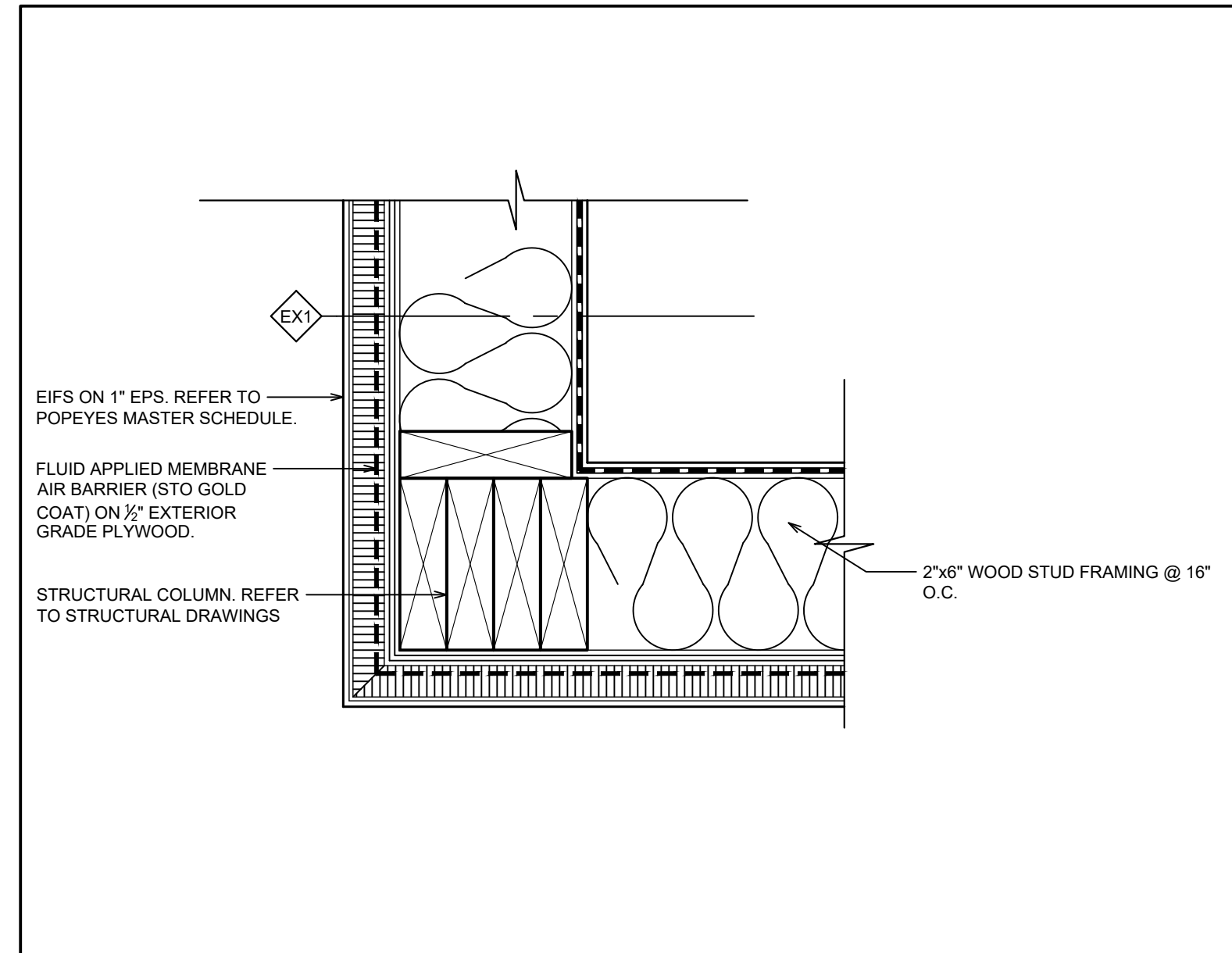
5 PLAN DETAIL @ CORNER
A7.1 SCALE: 2 1/2"=1'-0"



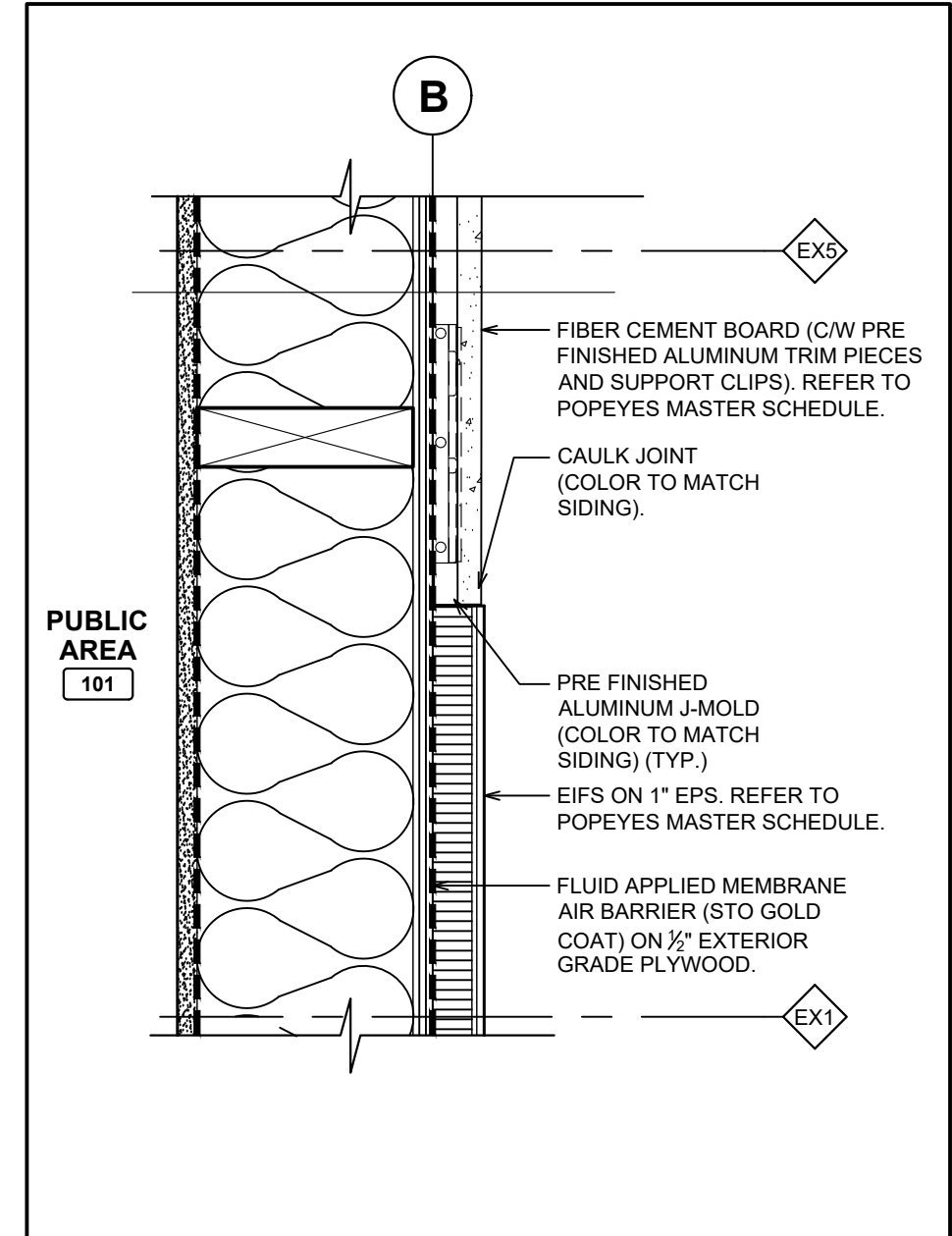
6 PLAN DETAIL @ TOWER
A7.1 SCALE: 2 1/2"=1'-0"



8 PLAN DETAIL @ WALK-IN BOX
A7.1 SCALE: 2 1/2"=1'-0"



9 PLAN DETAIL @ CORNER
A7.1 SCALE: 2 1/2"=1'-0"



10 PLAN DETAIL @ FINISH TRANSITION
A7.1 SCALE: 2 1/2"=1'-0"

ISSUE TABLE		
No.	Date (mm/dd/yyyy)	Description

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DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

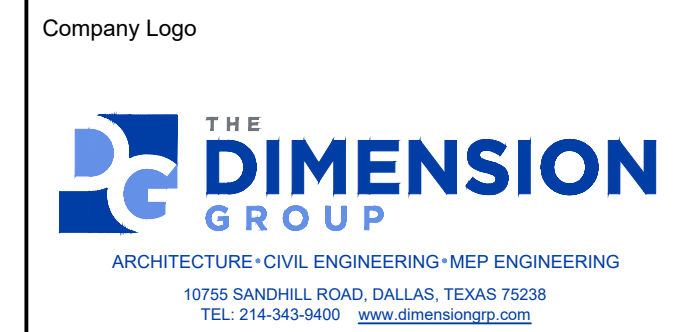
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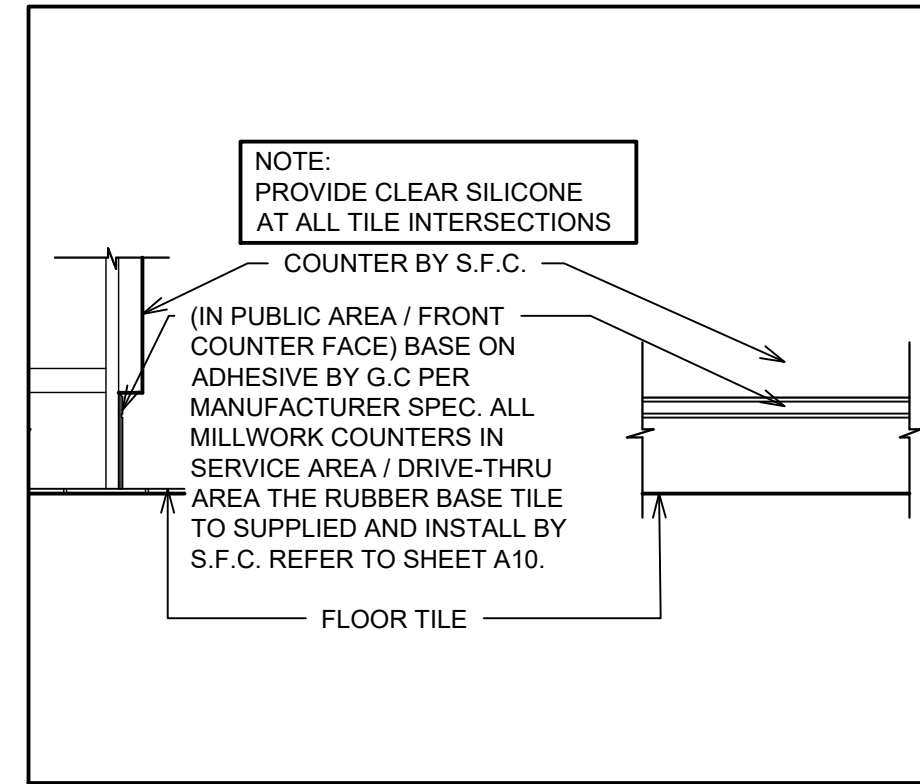
Store Type US 2112 PROTOTYPE 2112-21

Location 1517 NC 24-87 CAMERON, NC

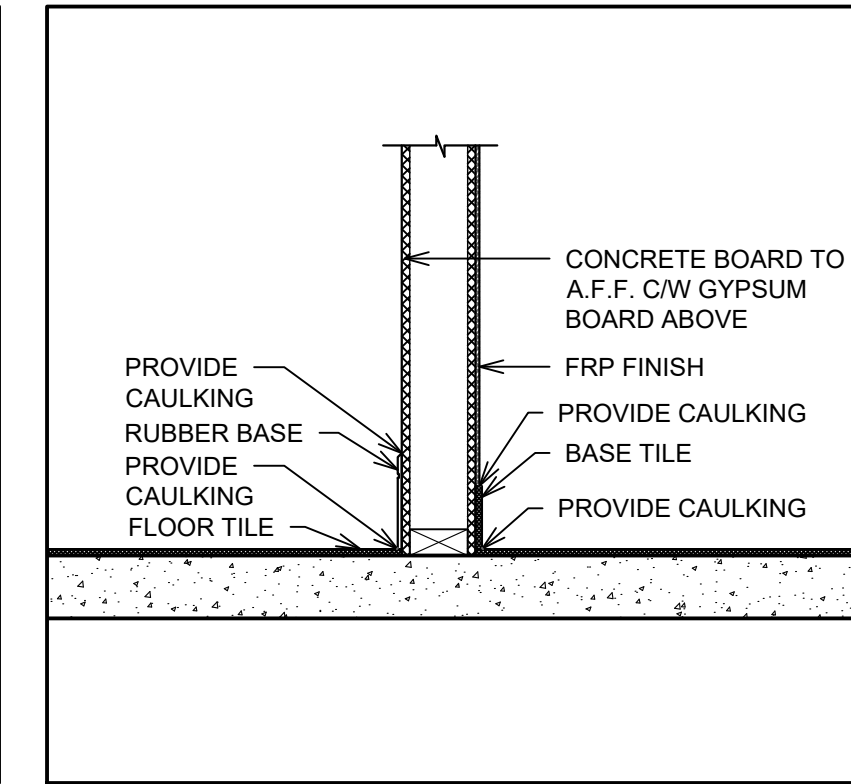
Drawing Title PLAN DETAILS

Drawn SH	Checked AL
Scale AS NOTED	Date JUNE 2023
Project No. C22-129	Drawing No. A7.1

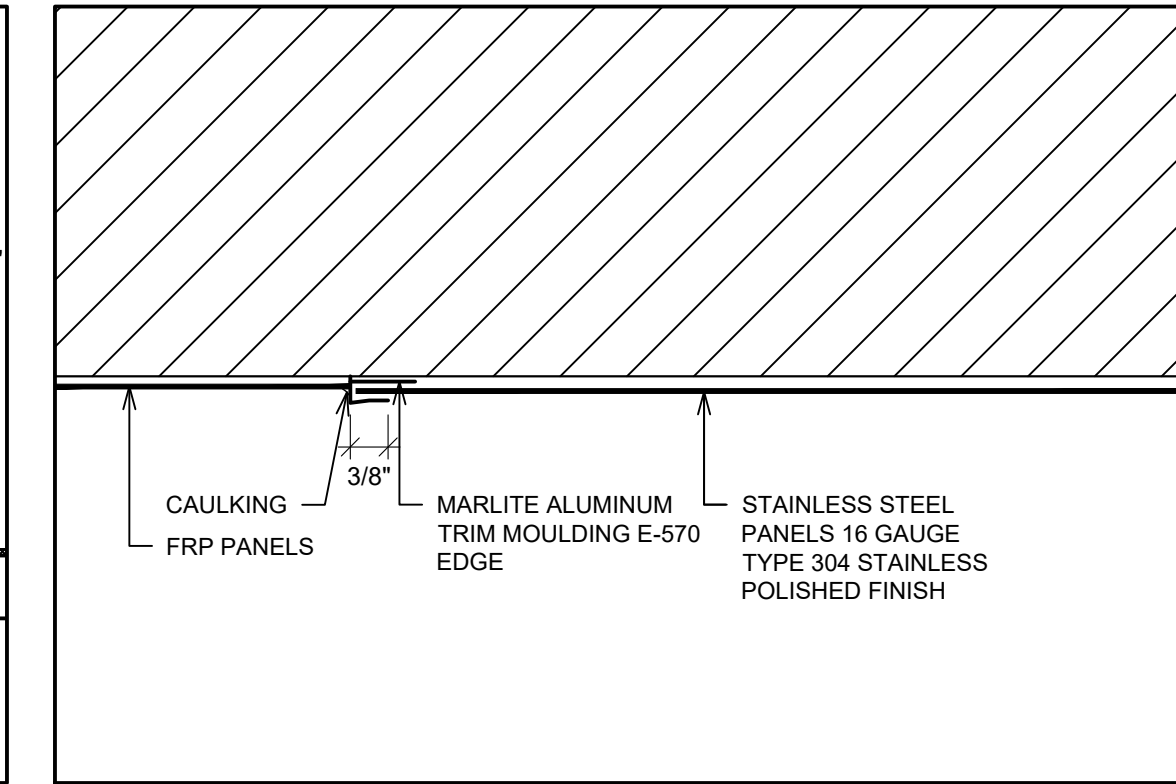
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



5 RUBBER BASE @ COUNTER
SCALE: 1" = 1'-0"



4 BASE @ FRP & GYPSUM BOARD
SCALE: 1" = 1'-0"



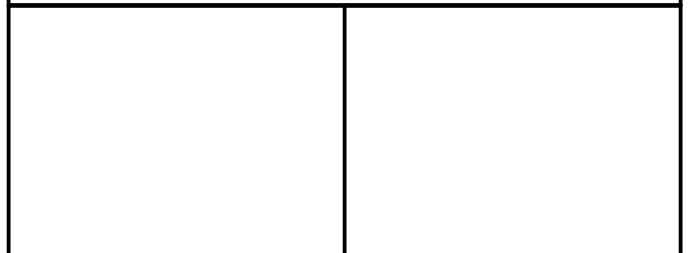
1 FRP-STAINLESS STEEL TRIM DETAIL
SCALE: 6" = 1'-0"

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

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Project

LOUISIANA KITCHEN
POPEYES

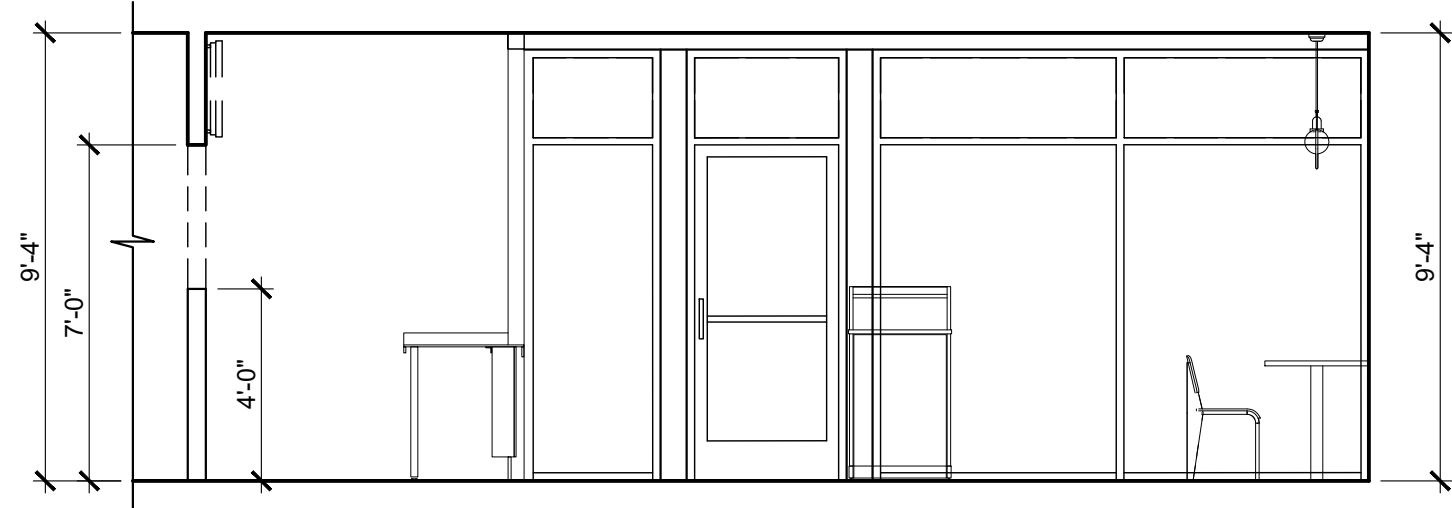
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

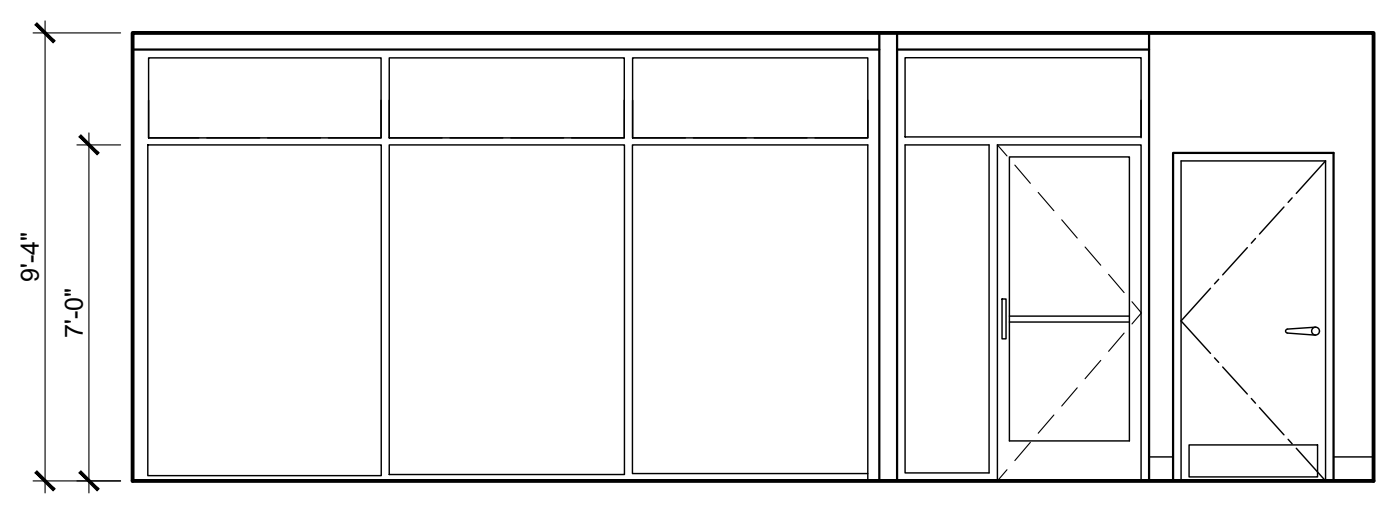
Drawing Title
DETAILS

Drawn	SH	Checked	AL
Scale	AS NOTED	Date	JUNE 2023
Project No.	C22-129	Drawing No.	A8

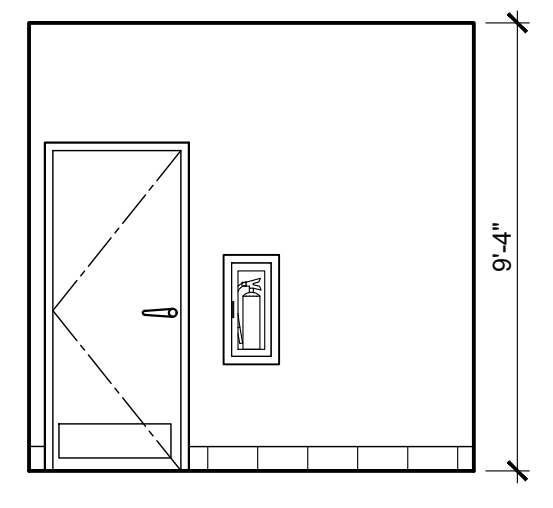
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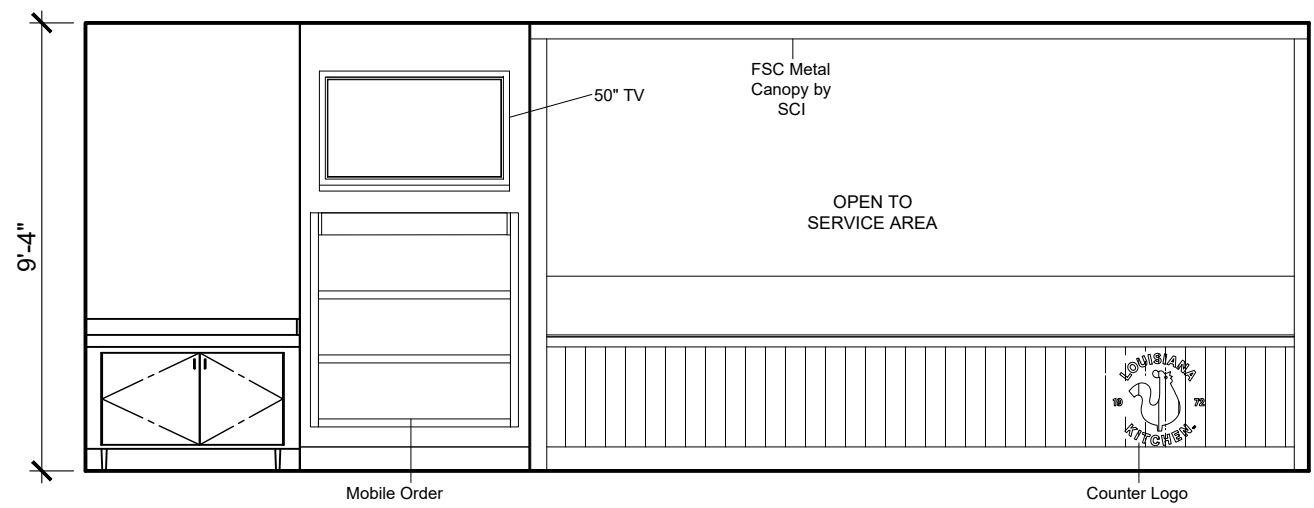
1 SERVICE AREA / PUBLIC AREA
A9 SCALE: 1/4" = 1'-0"



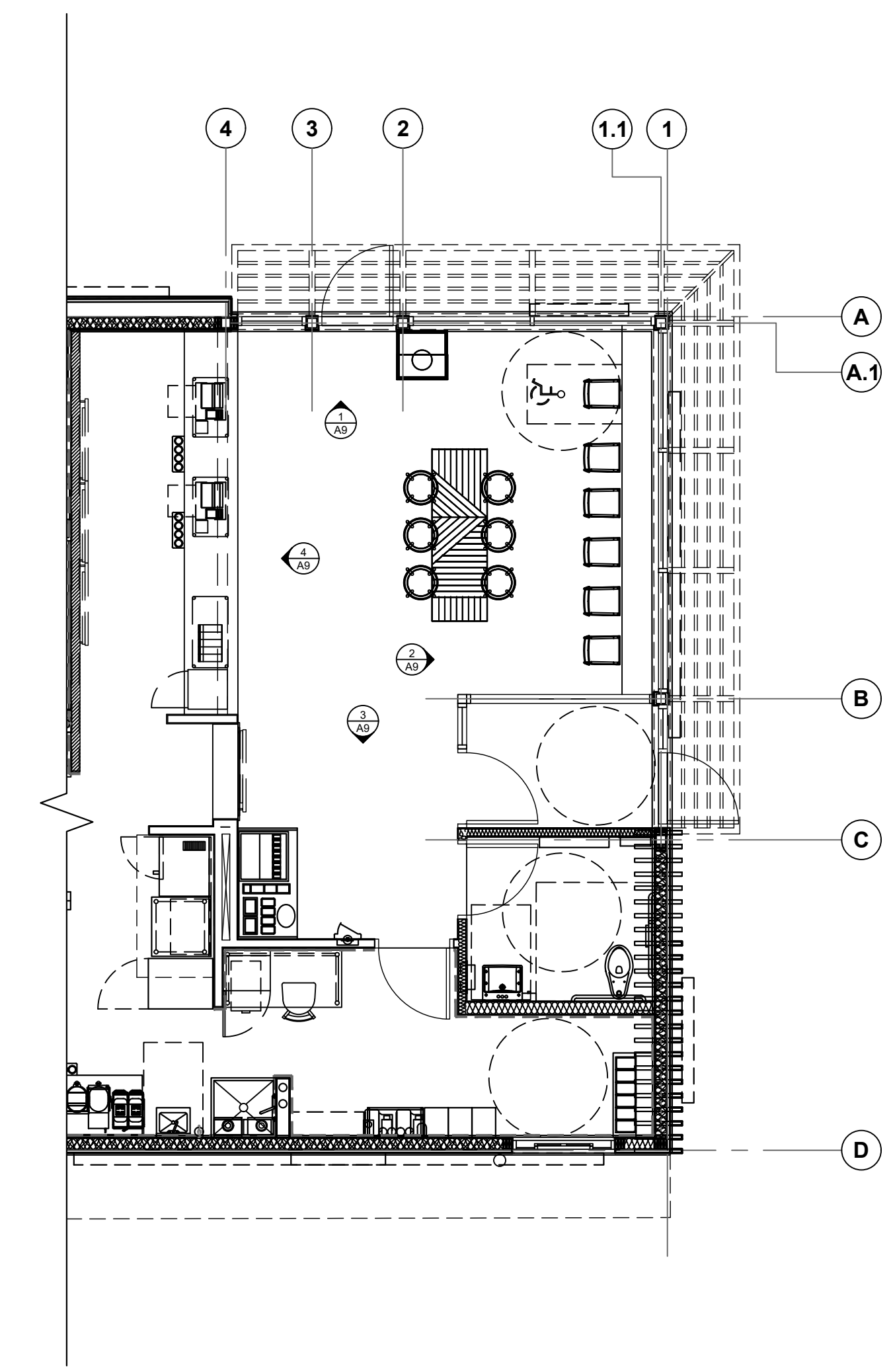
2 PUBLIC AREA
A9 SCALE: 1/4" = 1'-0"



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



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



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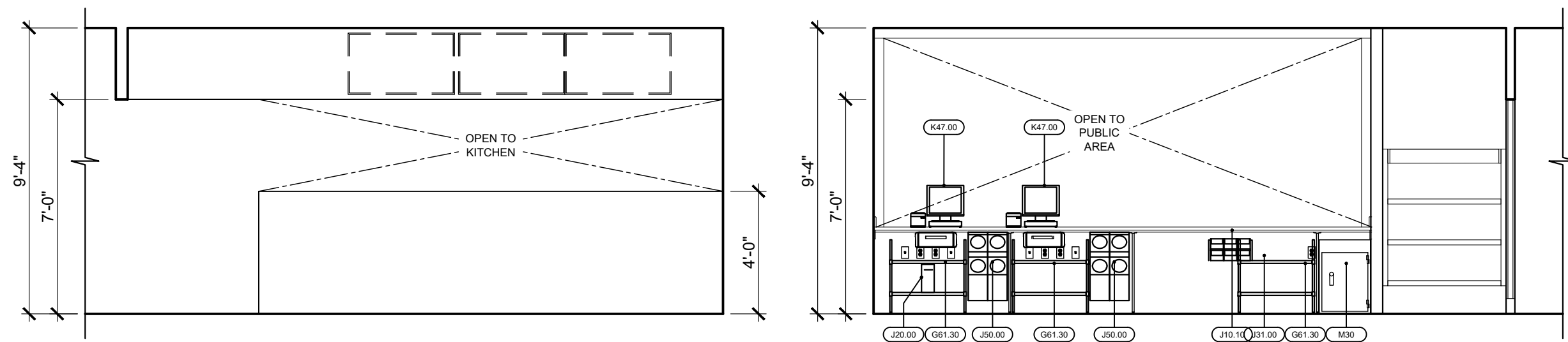
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
INTERIOR ELEVATIONS

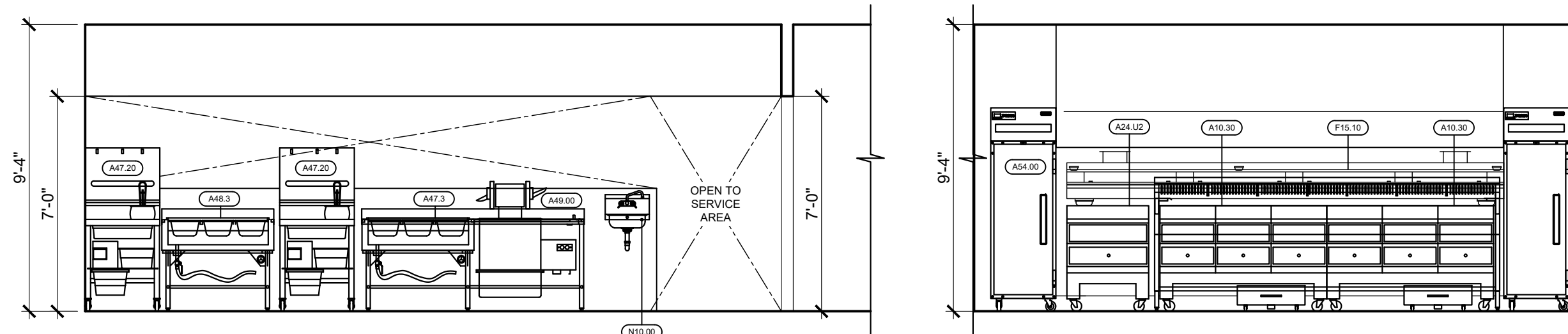
Drawn	Checked
Scale	Date JUNE 2023
Project No. C22-129	Drawing No. A9

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



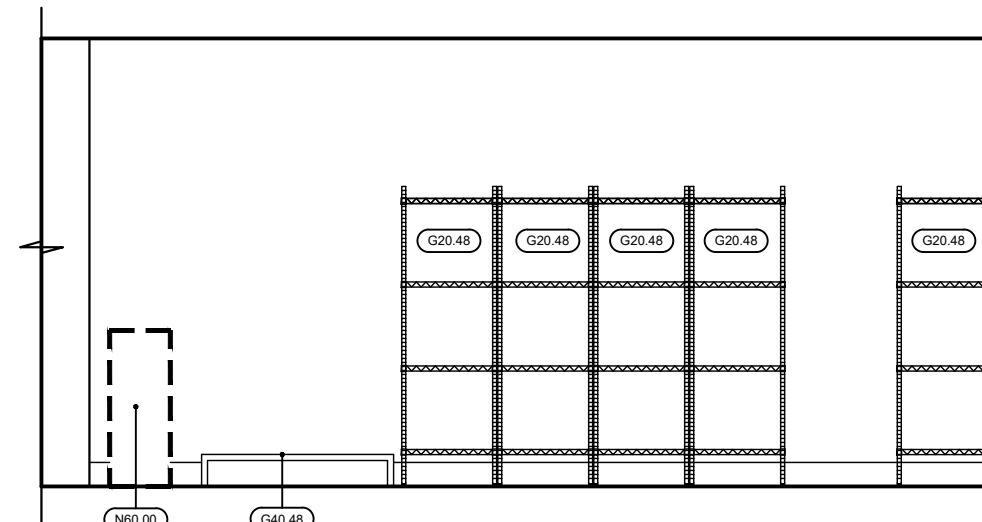
1 MENU BOARD
A9.1 SCALE: 1/4" = 1'-0"

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

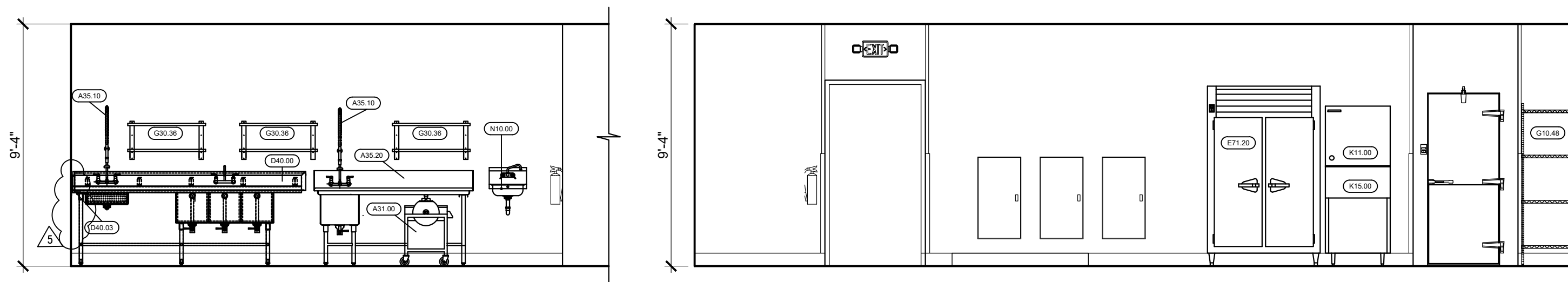


3 BATTER
A9.1 SCALE: 1/4" = 1'-0"

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

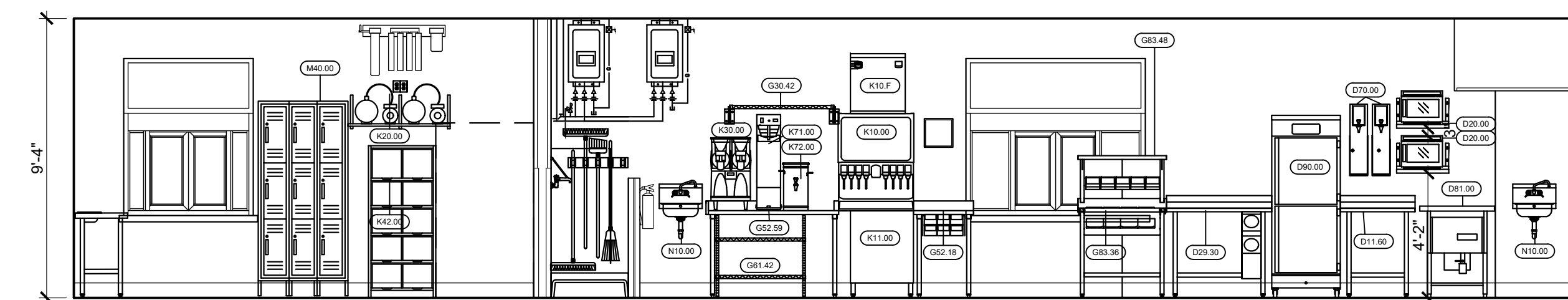


5 STORAGE
A9.1 SCALE: 1/4" = 1'-0"

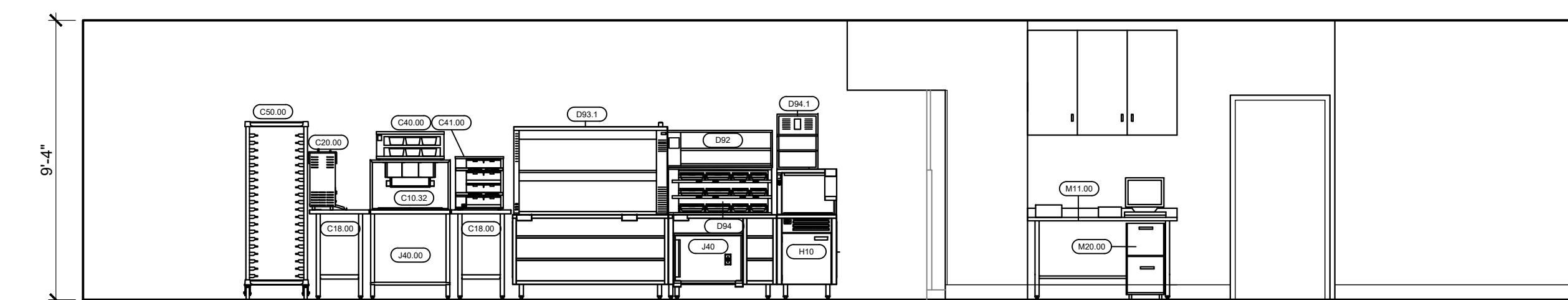


6 WET AREA
A9.1 SCALE: 1/4" = 1'-0"

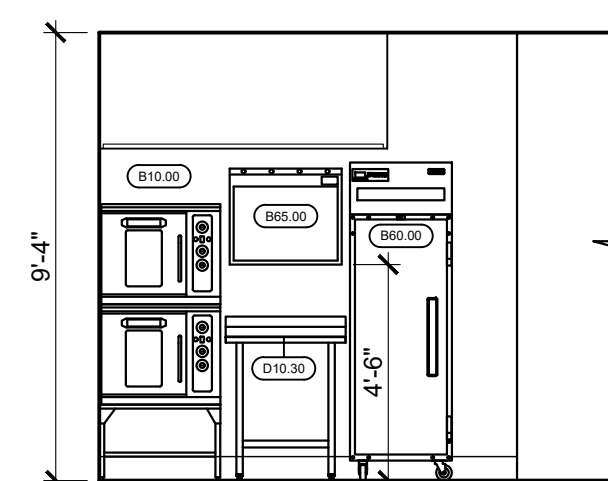
7 REFRIGERATION
A9.1 SCALE: 1/4" = 1'-0"



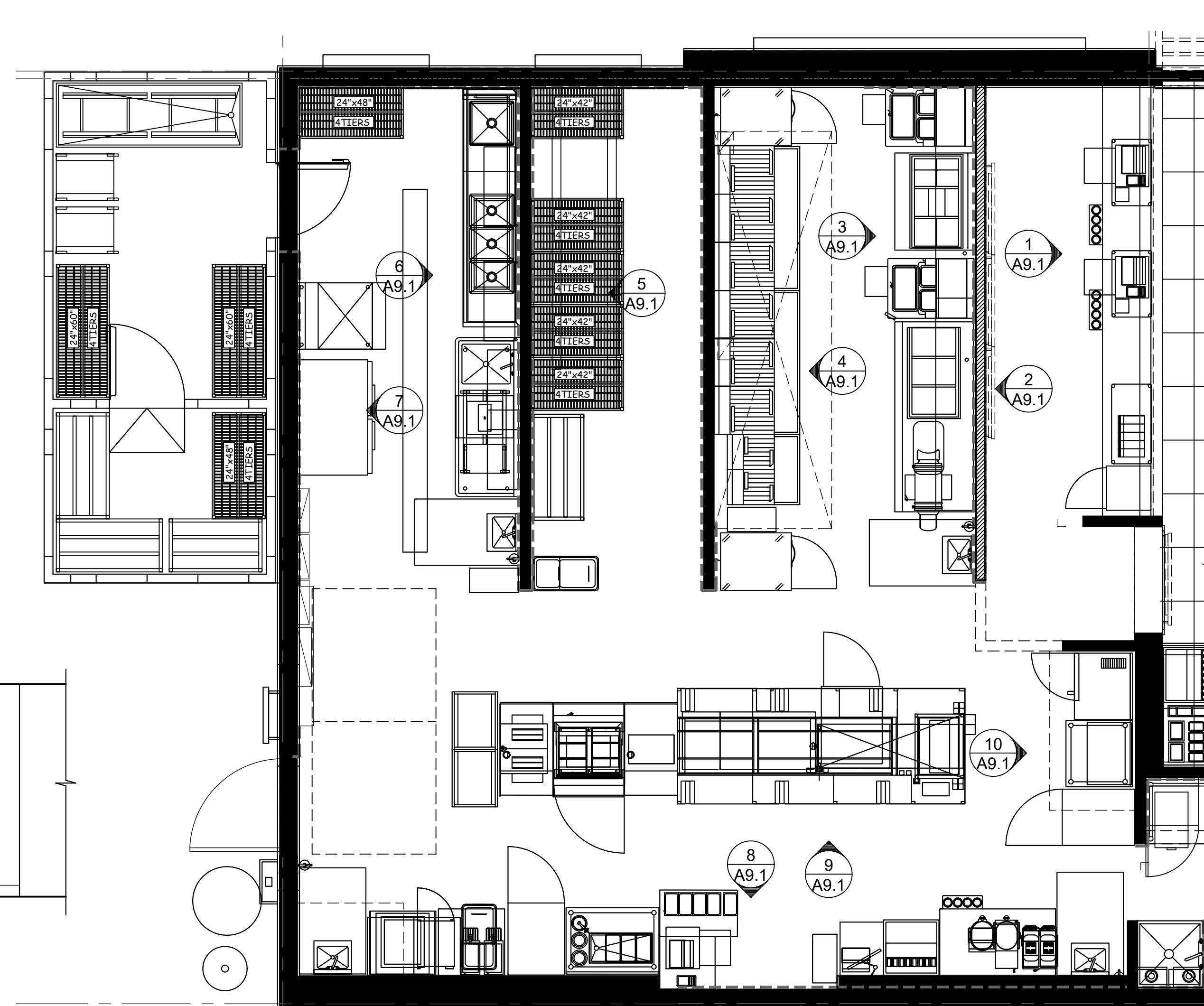
8 PREP
A9.1 SCALE: 1/4" = 1'-0"



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



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



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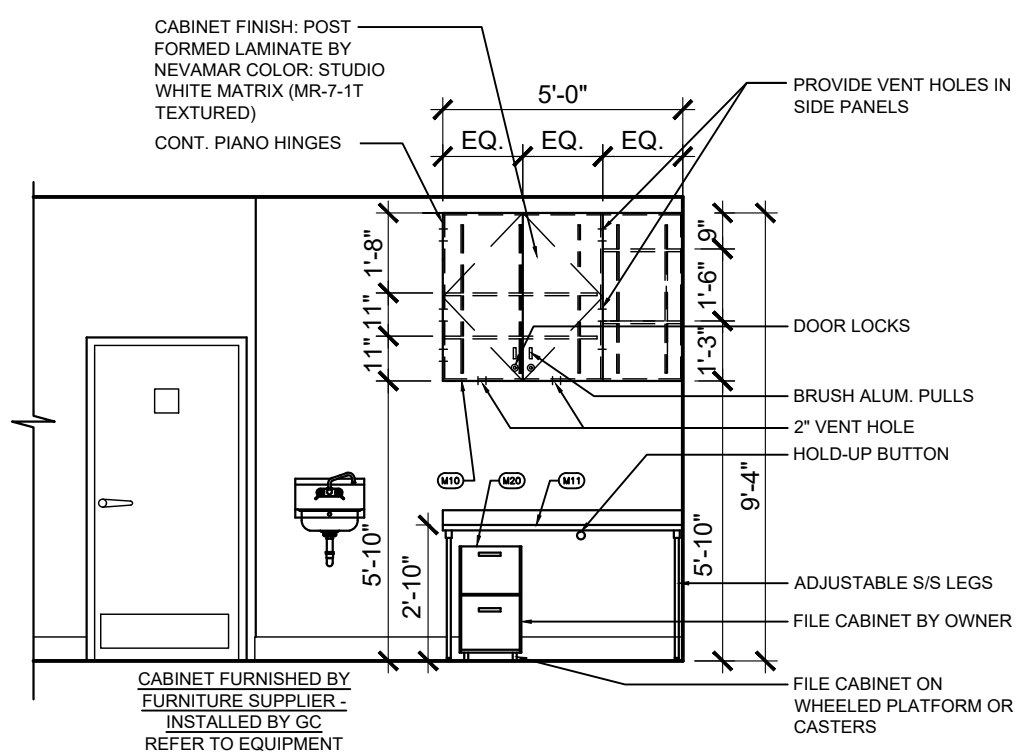
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

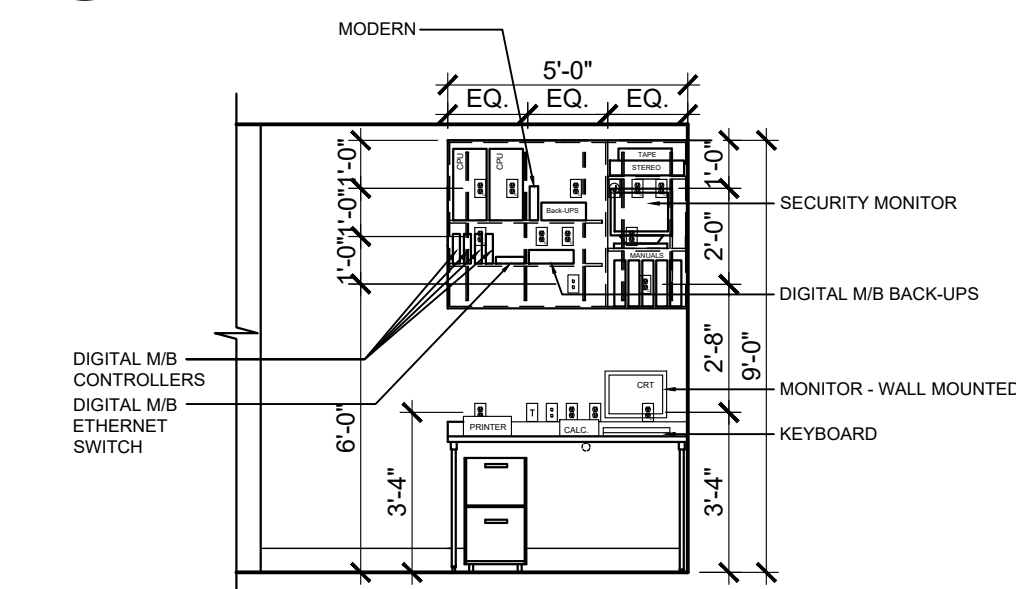
Drawing Title
INTERIOR ELEVATIONS

Drawn	Checked
Scale	Date JUNE 2023
Project No. C22-129	Drawing No. A9.1

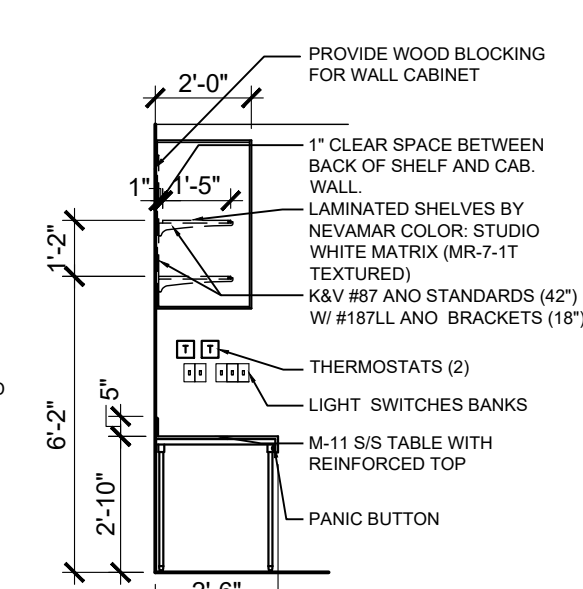
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



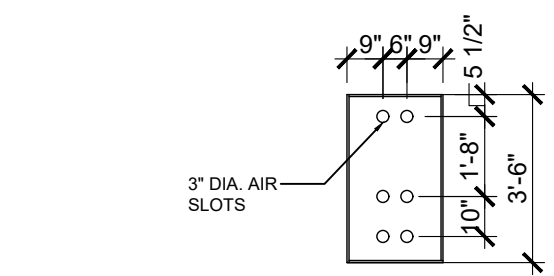
1 ELEVATIONS @ OFFICE, CABINET
A9.2 SCALE: 1/4" = 1'-0"



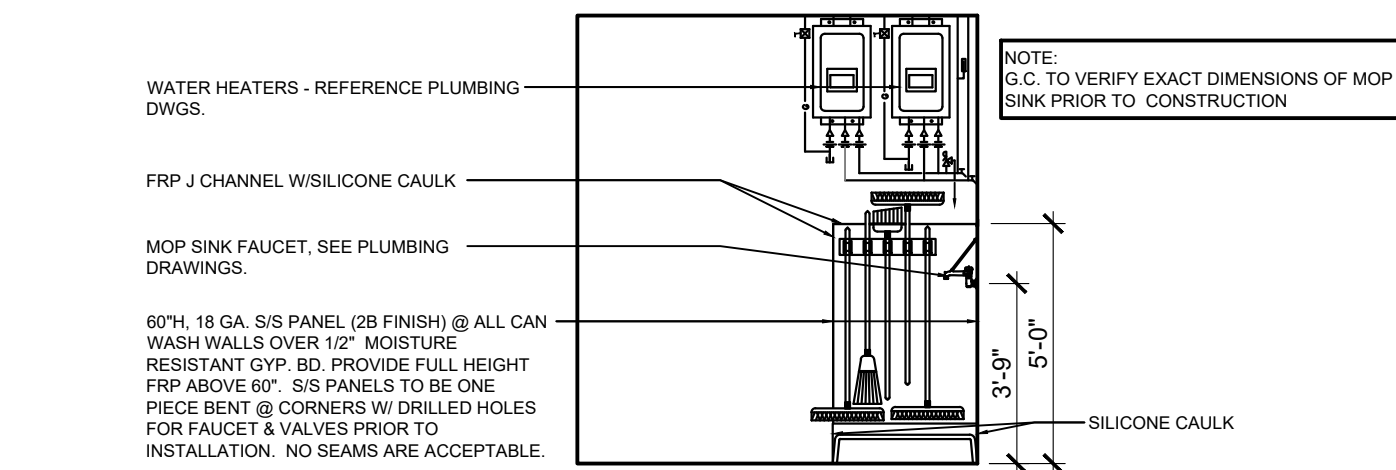
2 ELEVATIONS @ OFFICE
A9.2 SCALE: 1/4" = 1'-0"



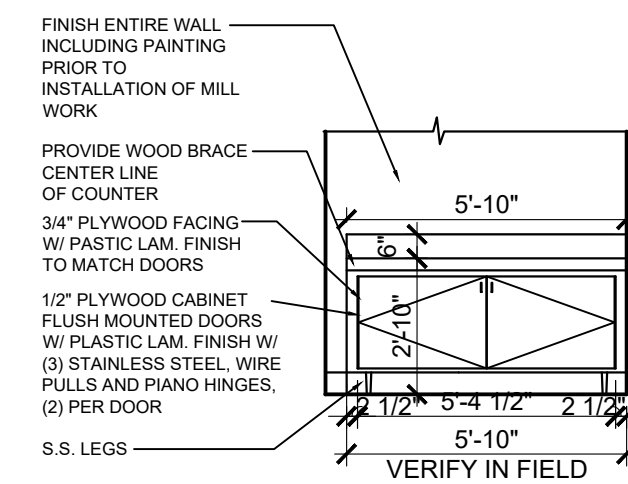
3 ELEVATIONS @ OFFICE
A9.2 SCALE: 1/4" = 1'-0"



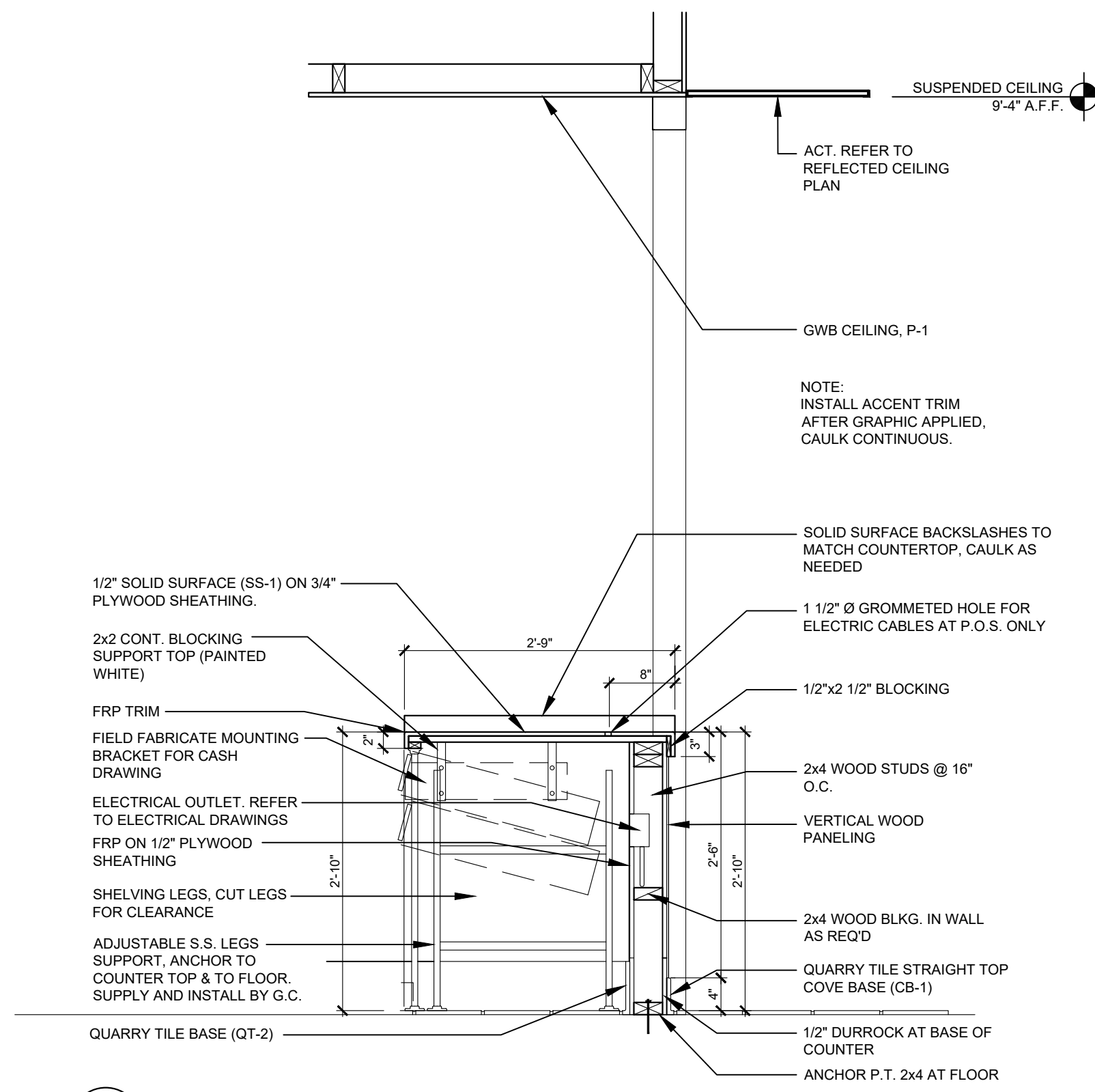
4 PERFORATED SIDE PANELS
A9.2 SCALE: 1/4" = 1'-0"



5 SECTION @ MOP SINK
A9.2 SCALE: 1/4" = 1'-0"



6 SELF-SERVE COUNTER ELEVATIONS
A9.2 SCALE: 1/4" = 1'-0"



7 SECTION @ FRONT COUNTER
A9.2 SCALE: 3/4" = 1'-0"

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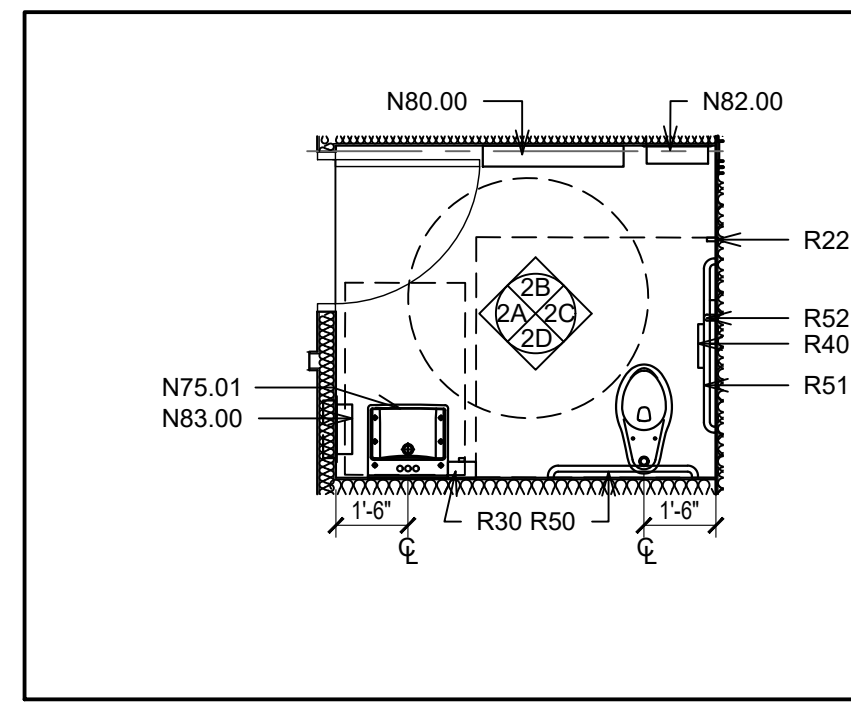
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

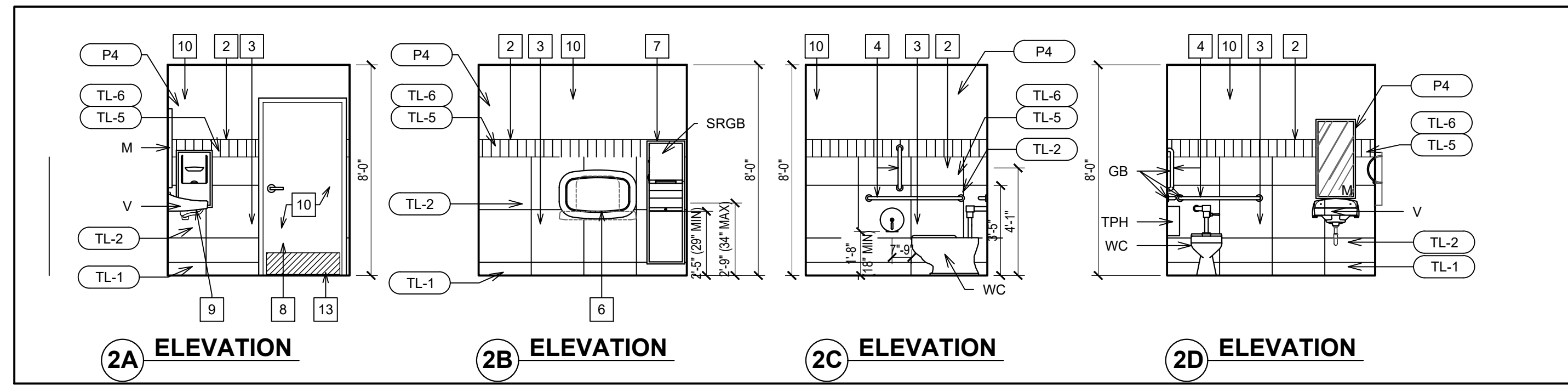
Drawing Title
INTERIOR ELEVATIONS

Drawn	Checked
Scale	Date JUNE 2023
Project No. C22-129	Drawing No. A9.2

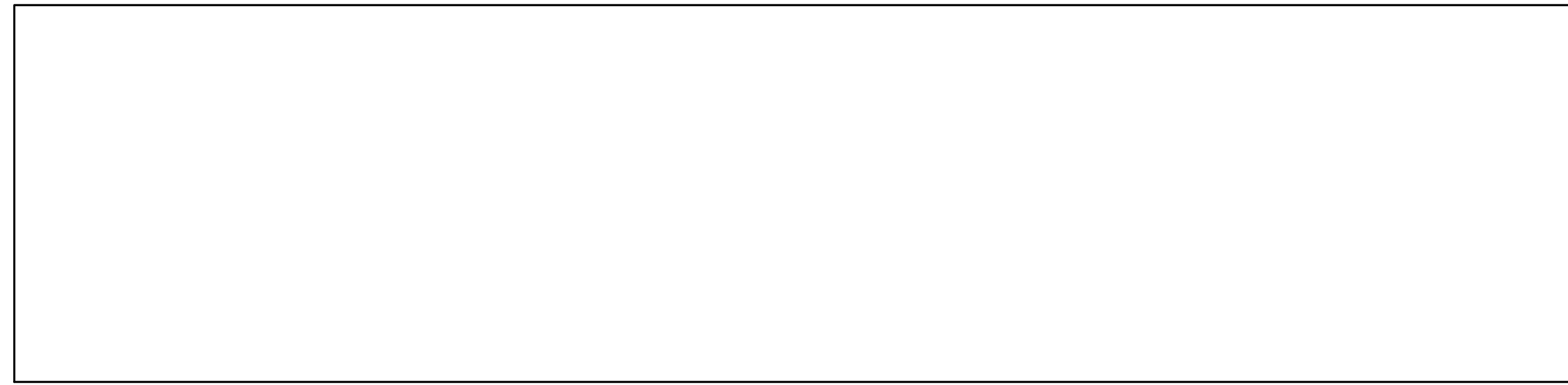
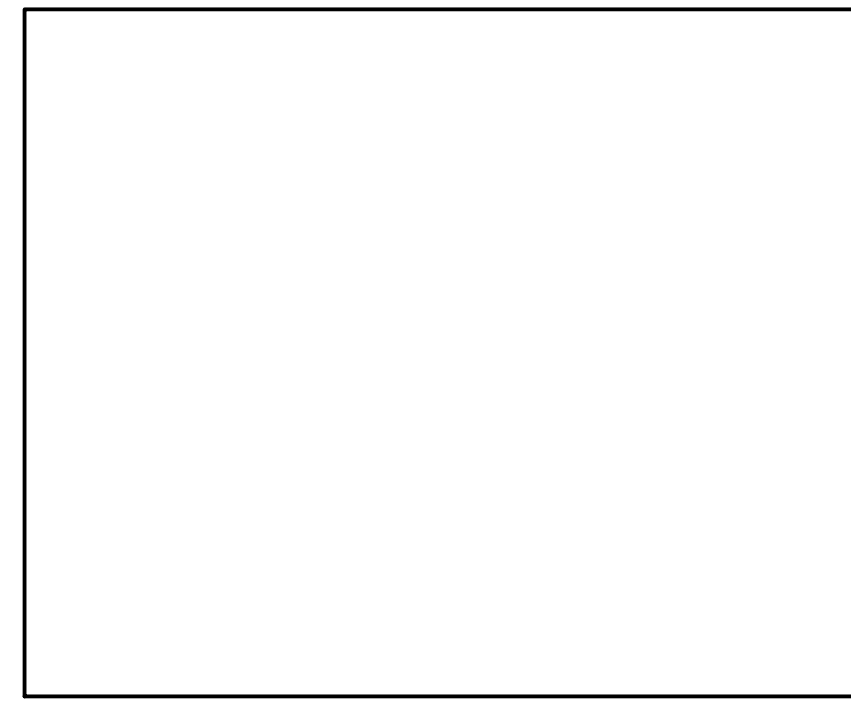
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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

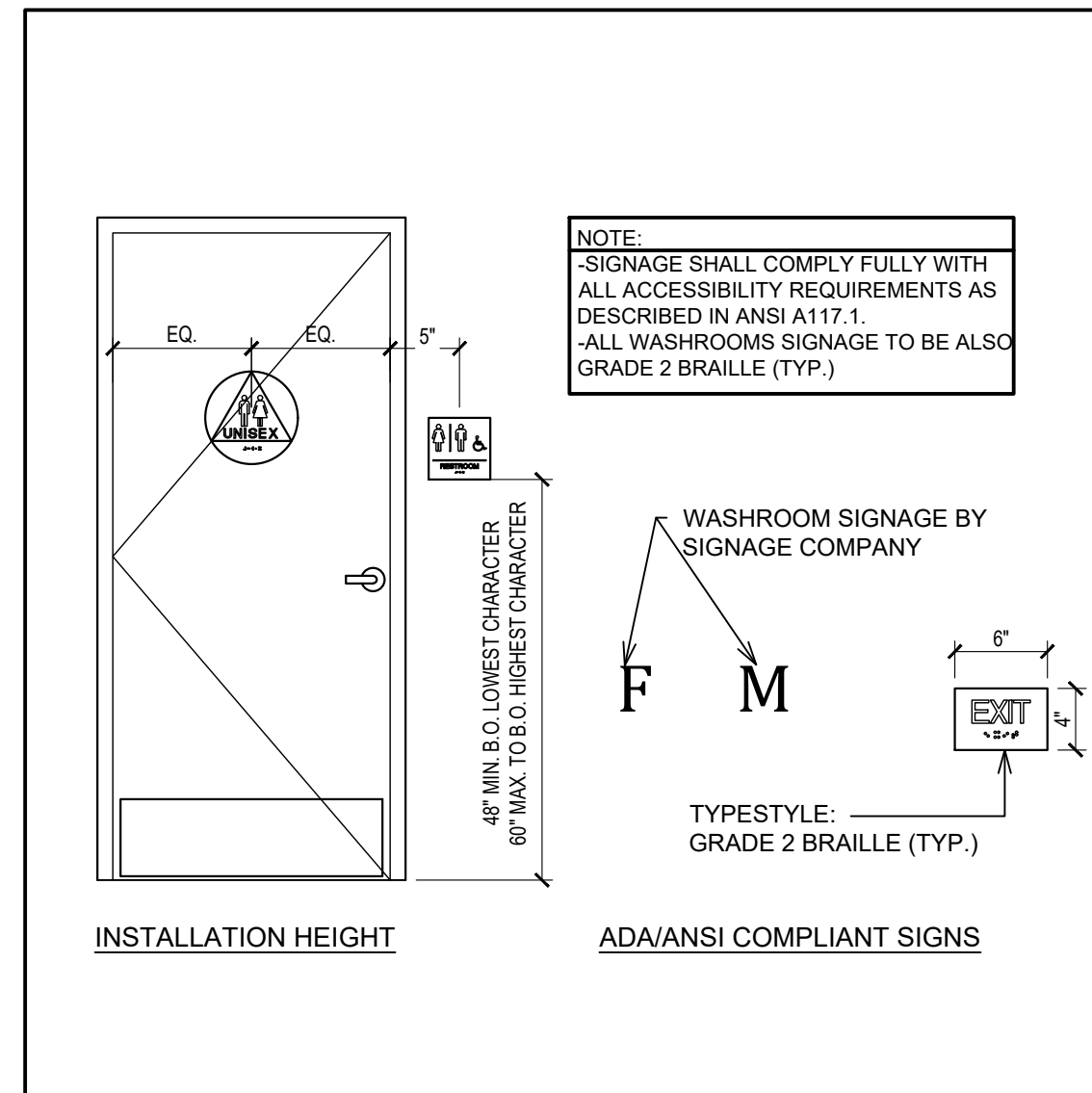
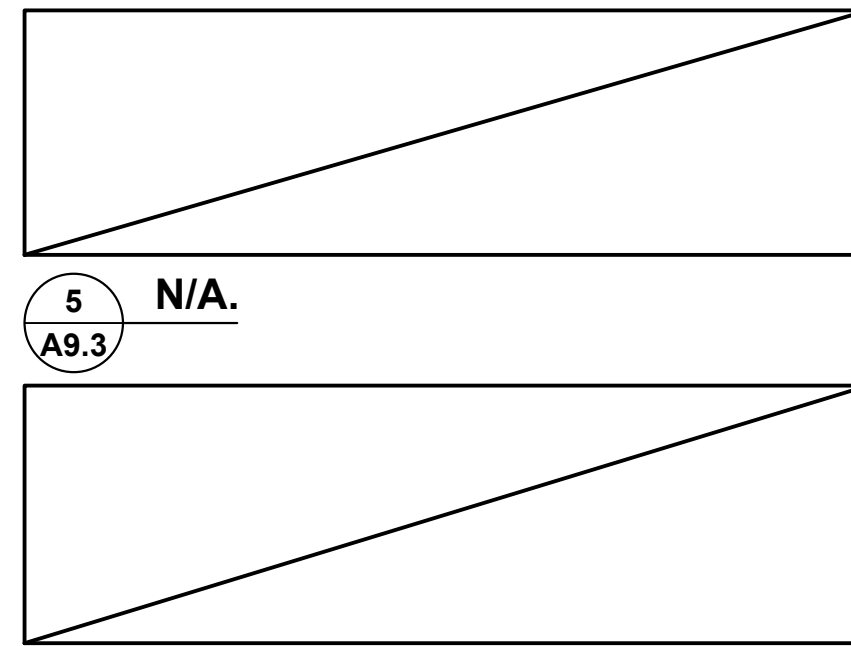


2 ELEVATIONS MEN'S WASHROOM
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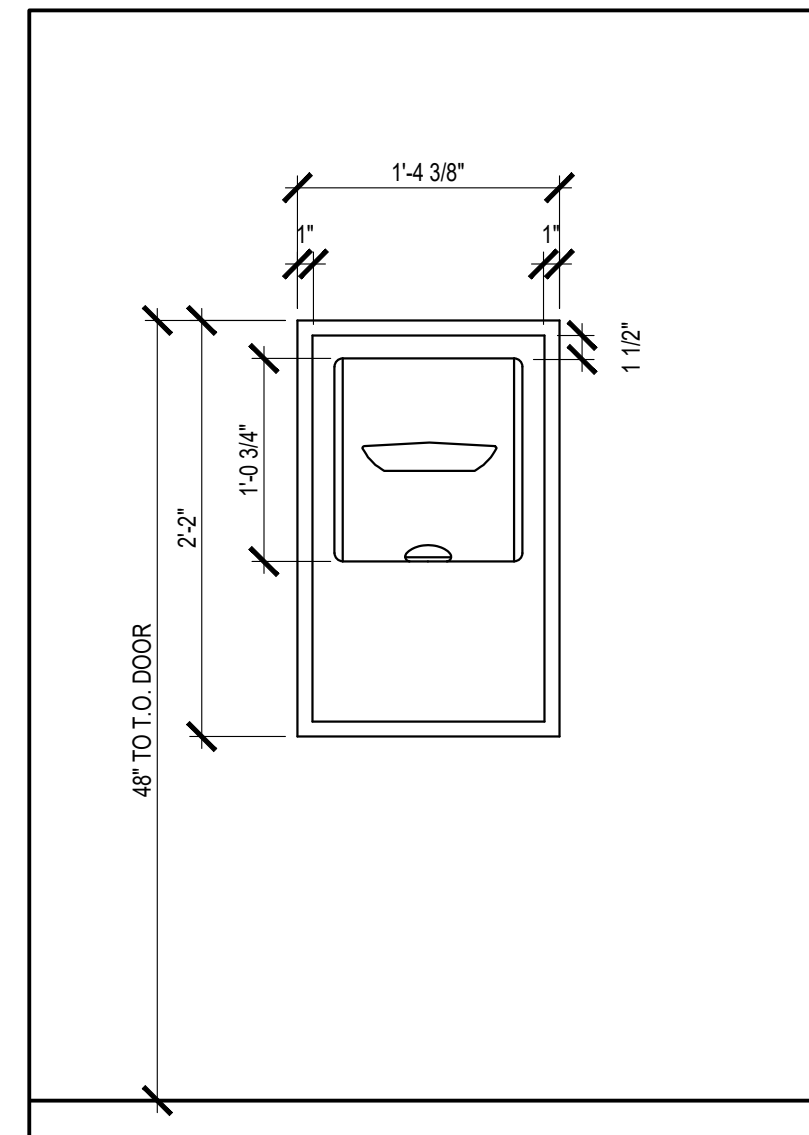
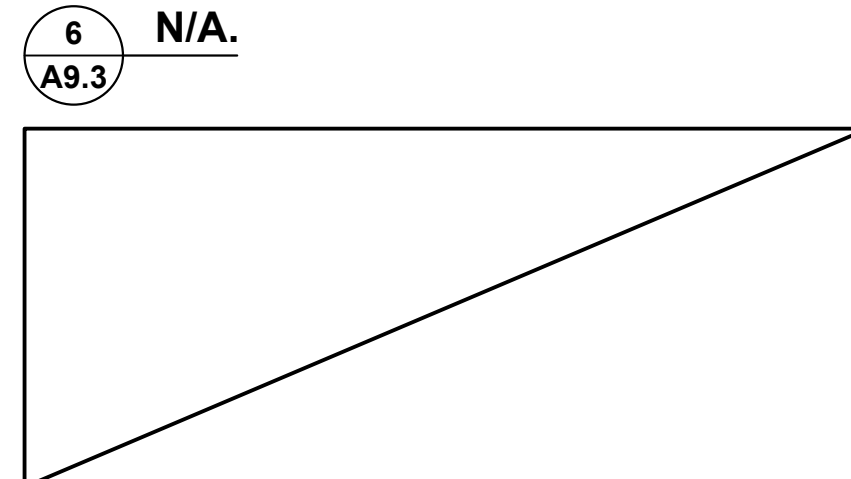


3 PLAN WOMEN'S WASHROOM
A9.3 SCALE: 1/4" = 1'-0"

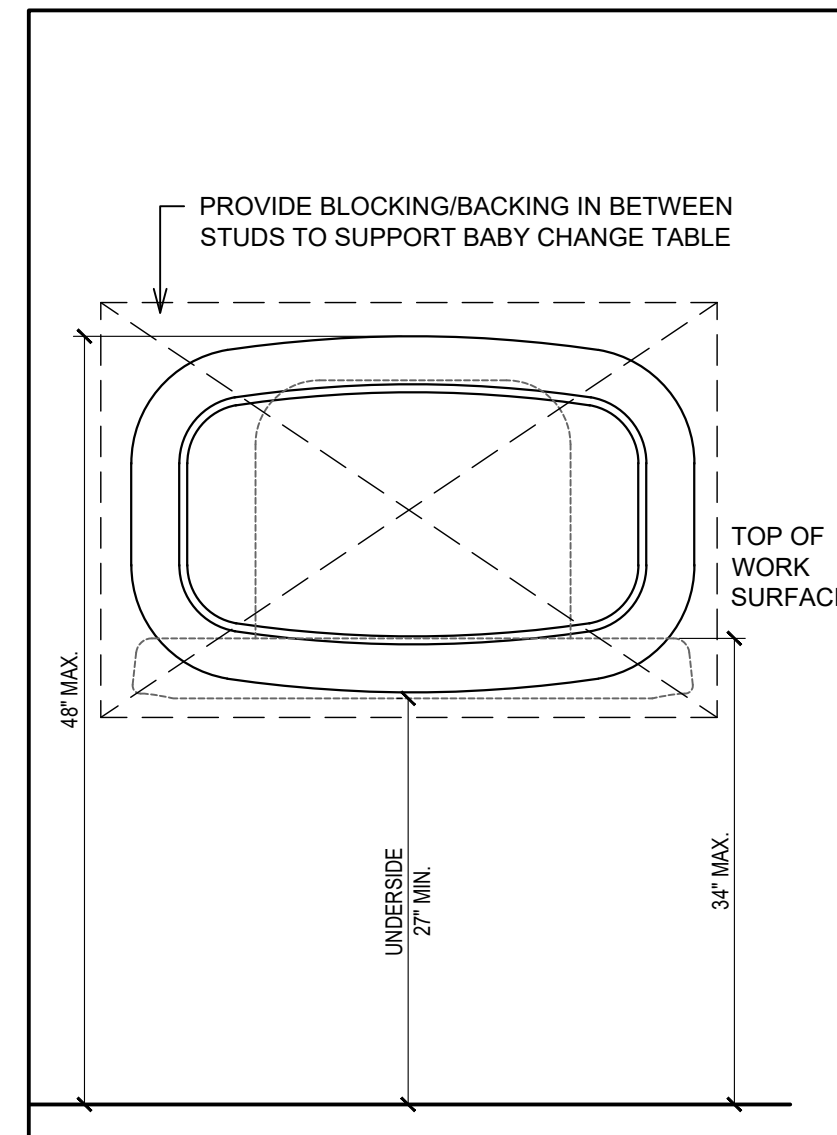
4 ELEVATIONS WOMEN'S WASHROOM
A9.3 SCALE: 1/4" = 1'-0"



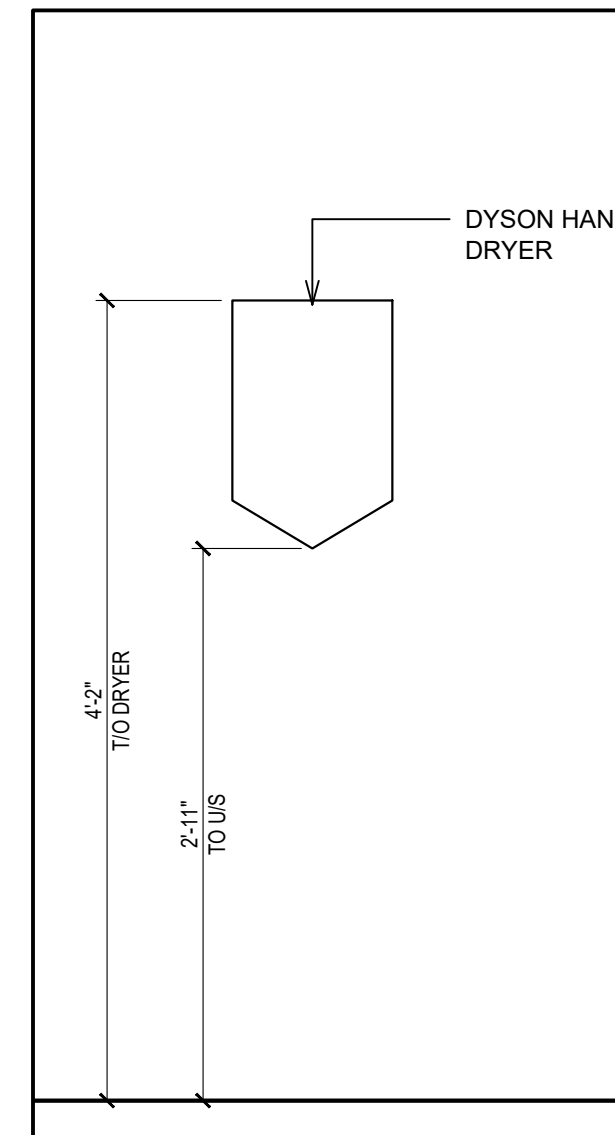
8 ACCESSIBILITY SIGNAGE.
A9.3 SCALE: 1" = 1'-0"



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

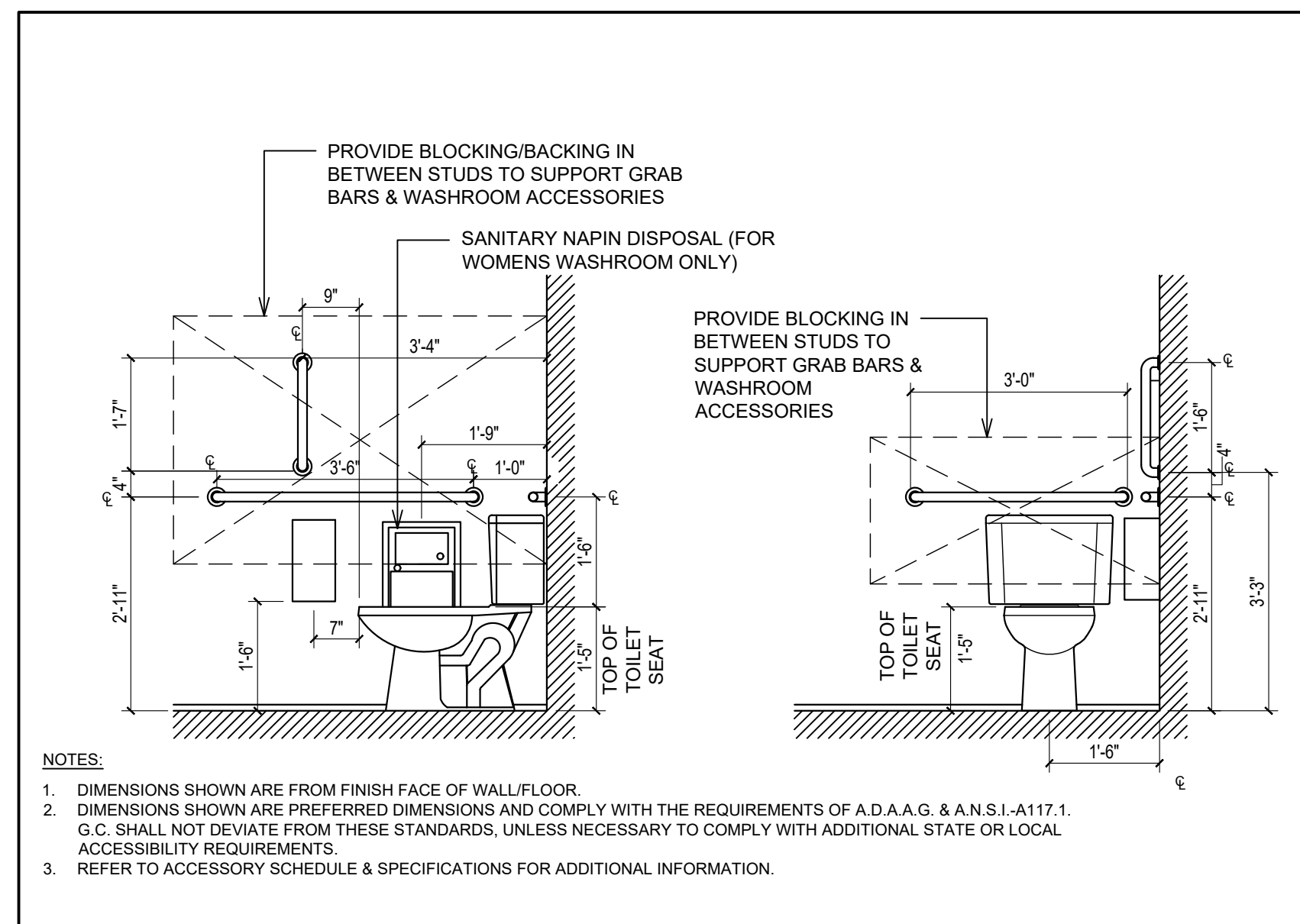


10 DETAIL @ BABY CHANGE TABLE
A9.3 SCALE: 1" = 1'-0"

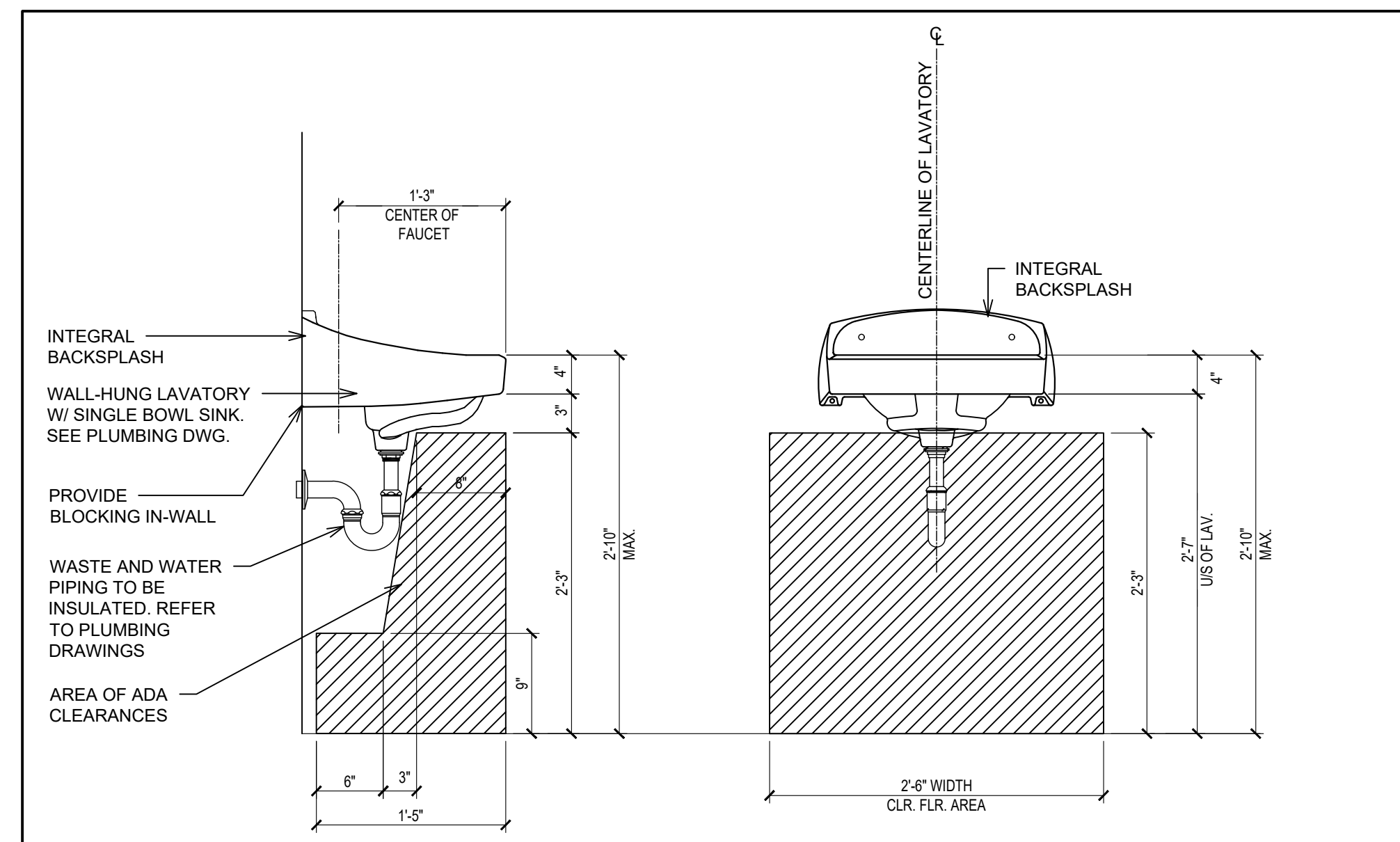


11 DETAIL @ HAND DRYER
A9.3 SCALE: 1" = 1'-0"

7 N/A
A9.3



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



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

INTERIOR ELEVATION NOTES

- 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
- WALL TILE FINISH TL-5 AND TL-6 - REFER TO FINISH SCHEDULE ON SHEET A10 FOR TYPE. GC TO BE SUPPLIED AND INSTALLED.
- WALL TILE TL-2 - REFER TO FINISH SCHEDULE ON SHEET A10 FOR TYPE.
- PROVIDE PLYWOOD BACKING IN BETWEEN STUDS TO ACCOMMODATE GRAB BARS. PROVIDE ADEQUATE SIZE. REFER TO DETAIL 12/A9.3.
- N/A.
- PROVIDE ADEQUATE PLYWOOD BACKING IN BETWEEN STUDS AT BABY CHANGE TABLE. REFER TO DETAIL 10/A9.3.
- PROVIDE OPENING IN WALL TO ACCOMMODATE SEMI-RECESSED GARBAGE. REFER TO DETAIL 9/A9.3.
- DOORS & FRAMES. REFER TO FINISH SCHEDULES ON SHEET A10 FOR FINISHES & A11 FOR TYPE.
- VANITY - REFER TO DETAIL 13/A9.3.
- PAINT FINISH - REFER TO TYPICAL WASHROOM ELEVATION ON SHEET A10 FOR TYPE.
- LAVATORY CARRIER - SEE PLUMBING SCHEDULE.
- PROVIDE & INSTALL SCHLUTER STRIP AT TILED CORNERS (INSIDE/ OUTSIDE). REFER TO SHEET A10 FOR SPECS.
- 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

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

ISSUE TABLE

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PROJECT NORTH

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TEL: 214-343-8400 www.thedimensiongroup.com

Project

Store Type

US 2112 PROTOTYPE
2112-21

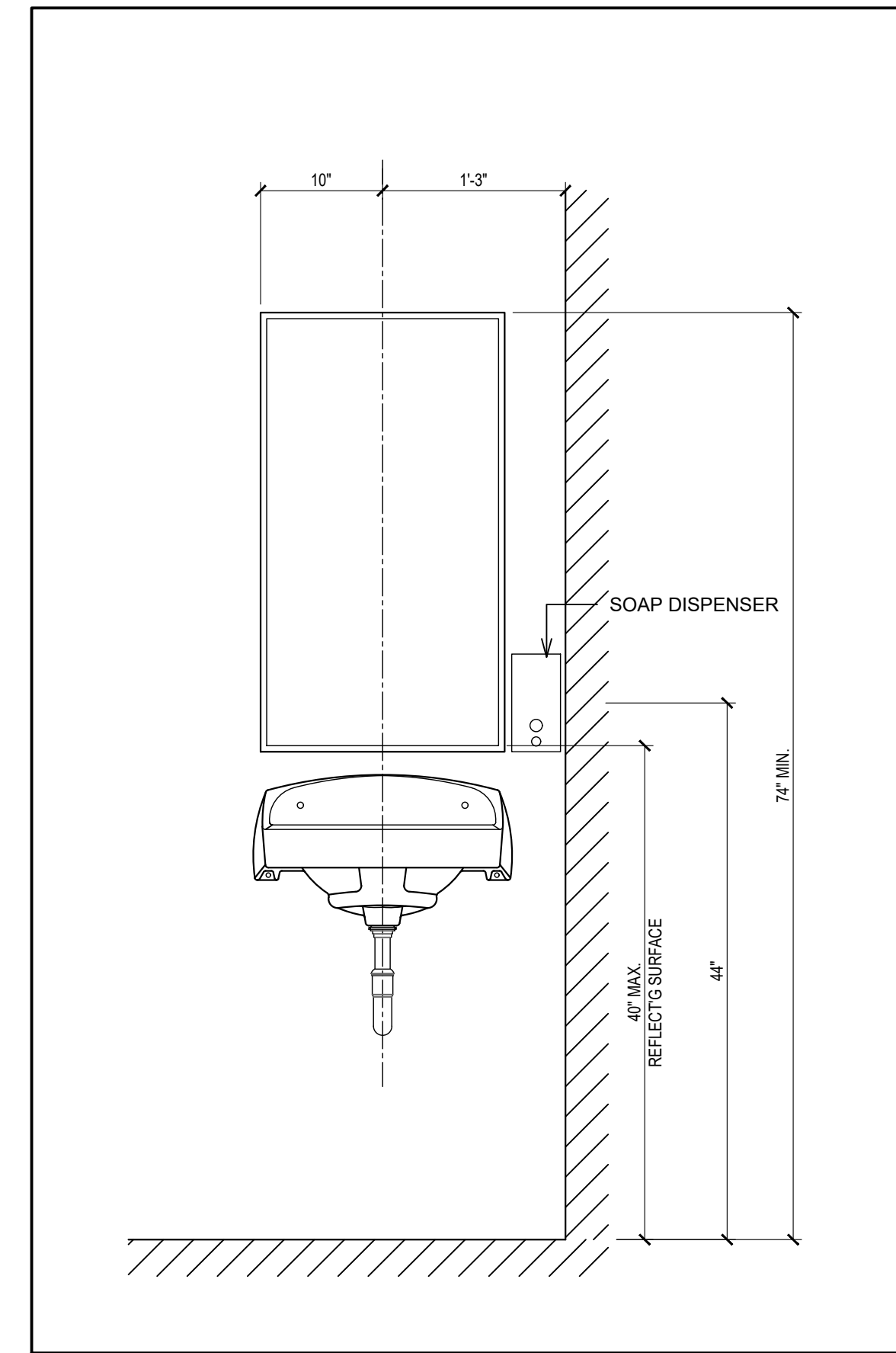
Location

1517 NC 24-87
CAMERON, NC

Drawing Title

WASHROOM DETAILS

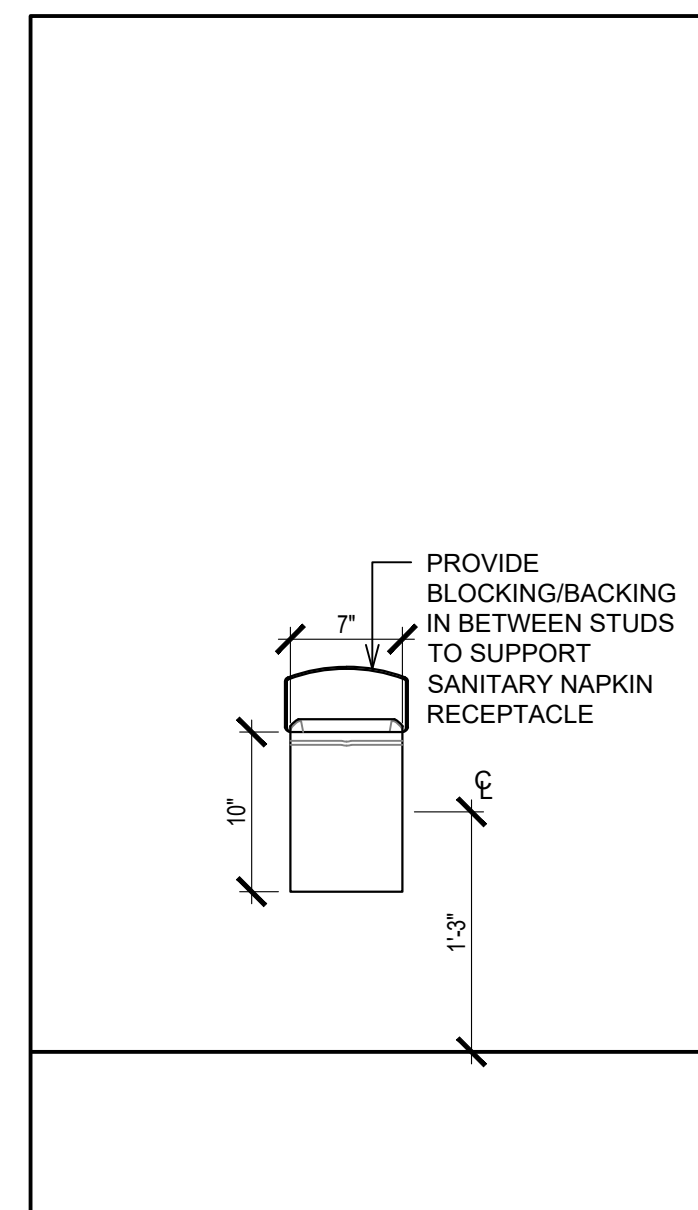
Drawn	SH	Checked	AL
Scale	AS NOTED	Date	JUNE 2023
Project No.	C22-129	Drawing No.	A9.3



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

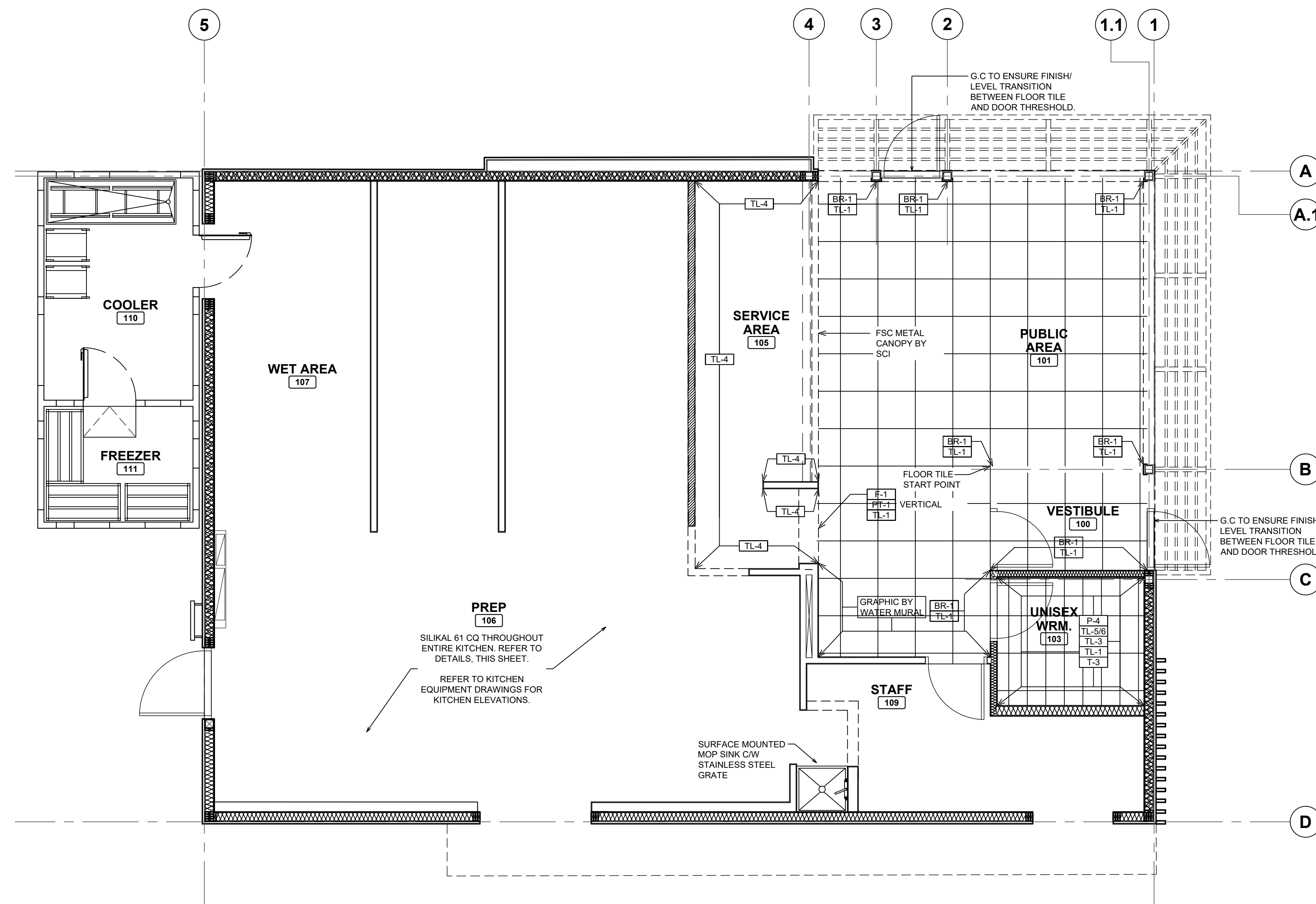
NOTES

- DIMENSIONS SHOWN ARE FROM FINISH FACE OF WALL/FLOOR.
- 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.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION G.C TO PROVIDE CLEAR CAULKING AT ALL WASHROOM FIXTURES AND TILE INTERSECTIONS.



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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



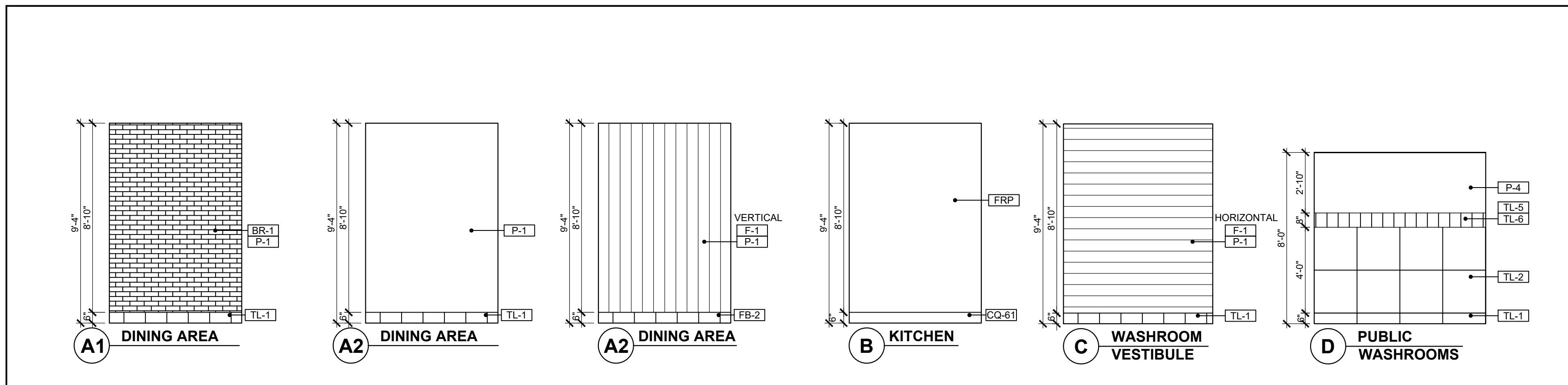
1
A10 TILE PLAN
SCALE: 1/4"=1'-0"

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOORS						WALLS										CEILINGS			HEIGHT				
		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
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			●	●																	●			9'-4"

NOTES

- 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.
- PROVIDE & INSTALL SCHLUTER STRIP (SHL-2) AT OUTSIDE / WALL TILE CORNERS WITHIN SERVICE AREA.
- PROVIDE & INSTALL SCHLUTER STRIP (SHL-3) AT ALL FLOOR TILE TRANSITION THROUGH OUT THE ENTIRE STORE. REFER TO FINISHING SCHEDULE.
- PROVIDE & INSTALL SCHLUTER-DILEX-KSN AT LOCATION OF FLOOR TILE AT DELIVERY DOOR. REFER TO POPEYES MASTER SCHEDULE.
- 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
- COVE BASE TILES FOR MILLWORK CABINETS TO BE INSTALLED BY MILLWORK VENDOR.
- G.C. TO SEAL ALL MILLWORK / MILLWORK AND GWB / MILLWORK JOINTS WITH CLEAR SILICONE CAULKING AFTER COMPLETION OF PAINTING, WAINSCOTING AND FINAL CLEANING.
- ALL BUTT JOINTS IN THE MILLWORK (VERTICAL AND HORIZONTAL) WILL BE CAULKED WITH CLEAR SILICONE CAULKING BY MILLWORK COMPANY.



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

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

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1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION



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11.10.2023

Company Logo

ARCHITECTURE - CIVIL ENGINEERING - MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongroup.com

Project

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

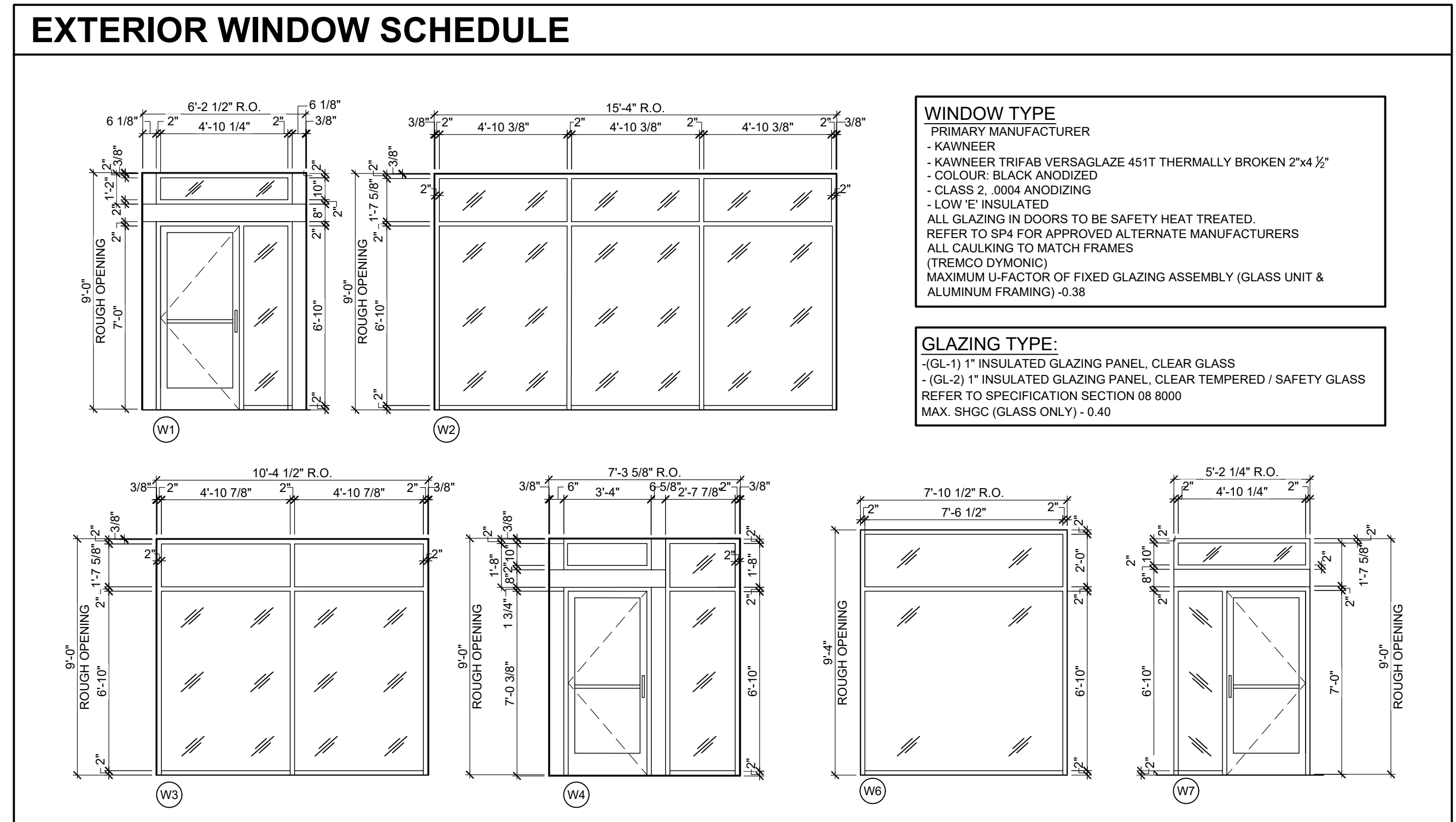
Location
1517 NC 24-87
CAMERON, NC

Drawing Title
TILE PLAN AND
FINISHING
SCHEDULE

Drawn SH	Checked AL
Scale 1/4"=1'-0"	Date JUNE 2023
Project No. C22-129	Drawing No. A10

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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	W/D	WOOD PROVIDED BY DOOR MANUFACTURER	
GL	GLASS	HMIN	HOLLOW METAL INSULATED	PM	PREFINISHED METAL	MILLWK	MILLWORK			



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"Ø 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 SCHEDULE NOTES:

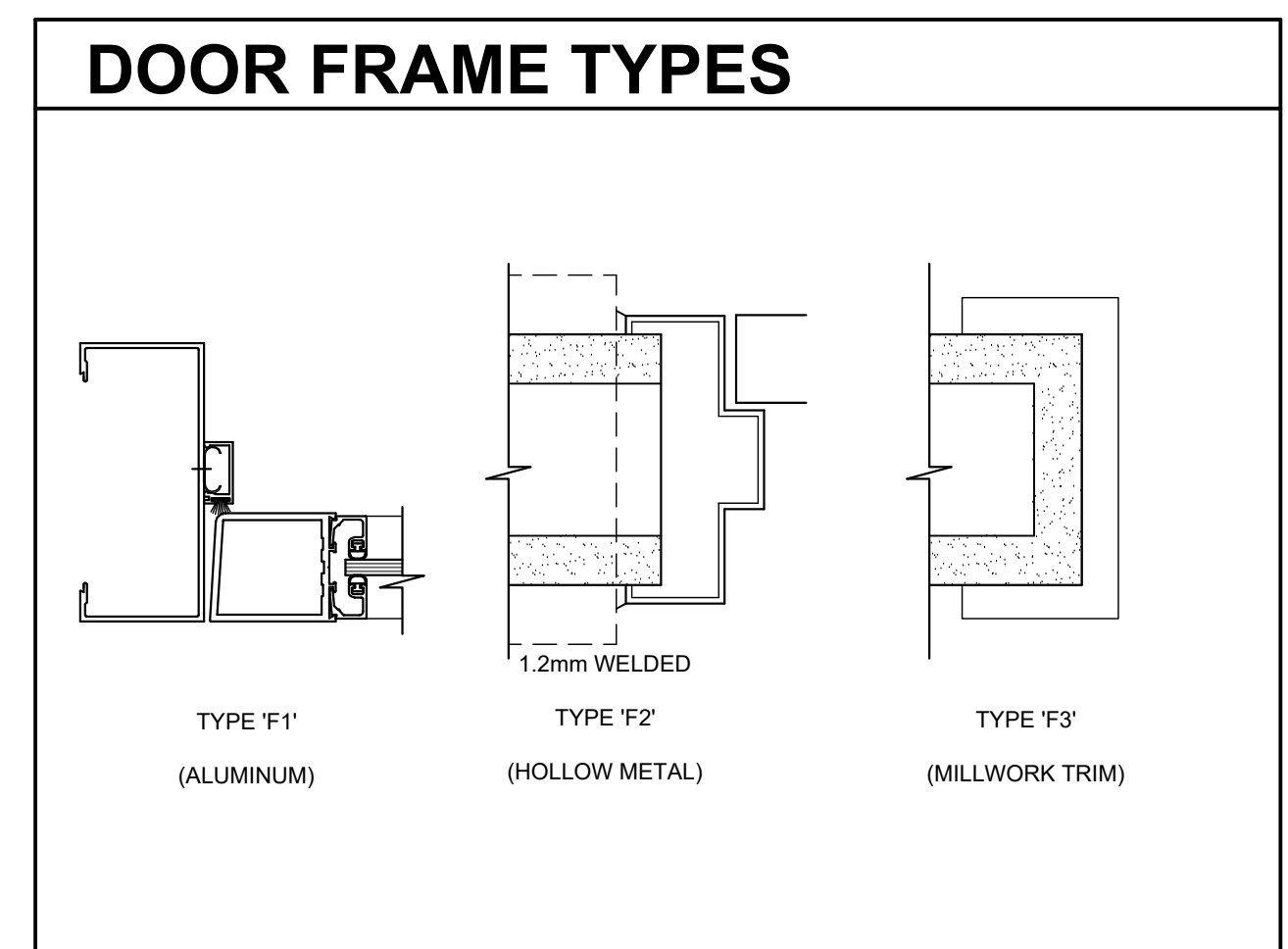
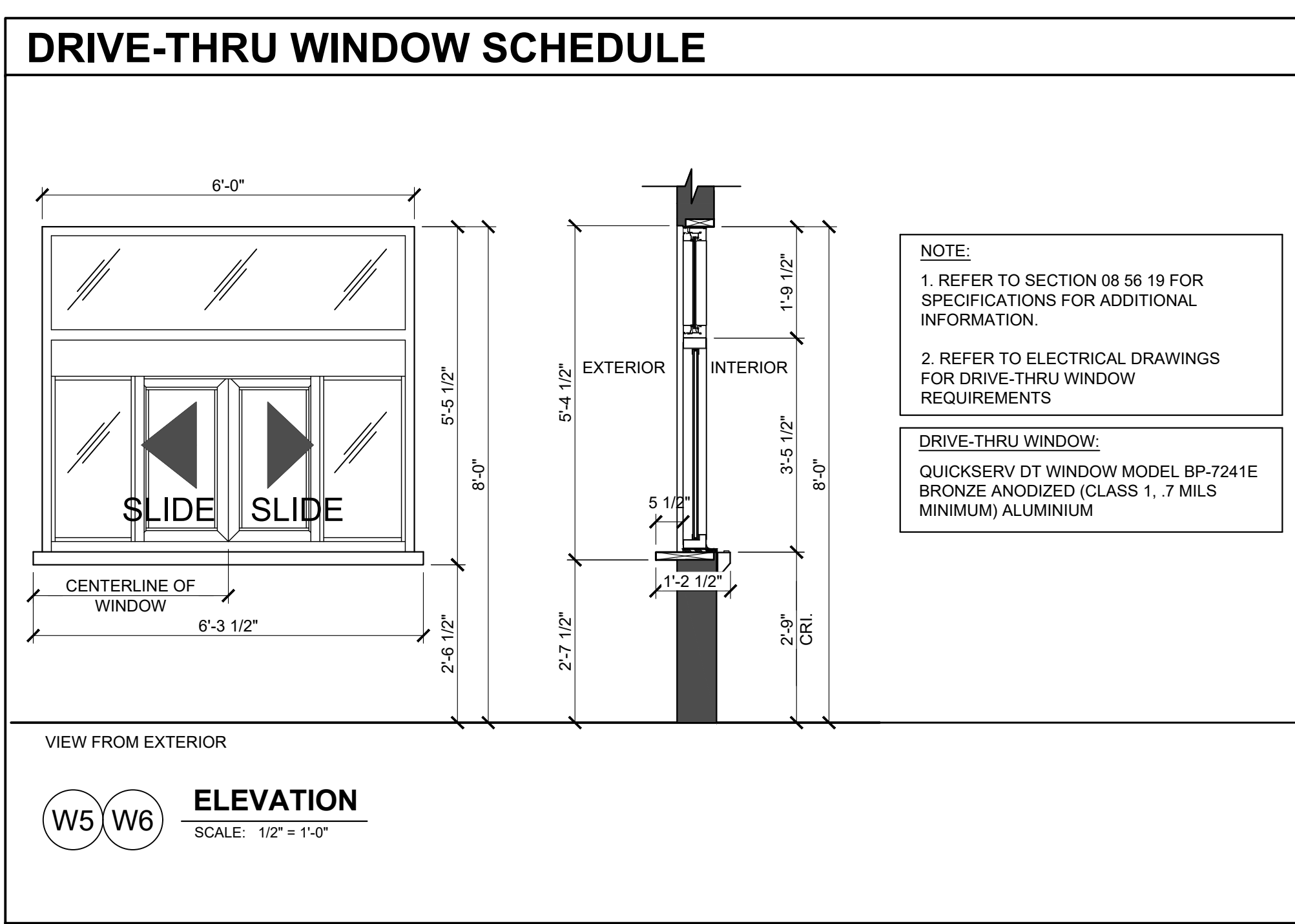
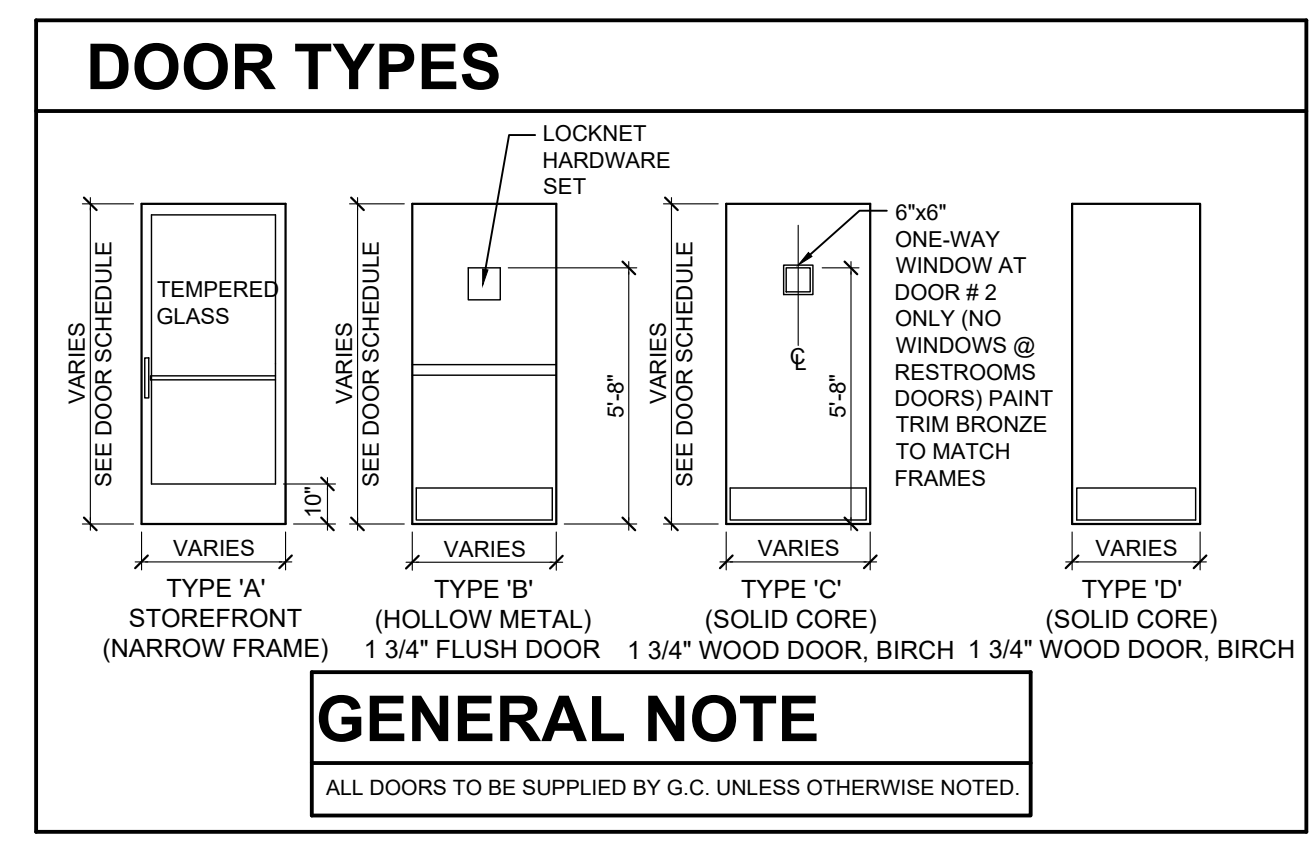
- ALL HARDWARE IS NEW UNLESS OTHERWISE NOTED.
- ALL DOOR LOCKSETS / LATCHES SHALL BE "LEVER TYPE" IN COMPLIANCE WITH A.D.A.A.G. SECTION 4.1.3.9).
- ALL DOOR HANDLES, PULLS, LATCHES, LOCKS, AND/OR OTHER OPERATING DEVICES SHALL BE INSTALLED BETWEEN 34" MINIMUM AND 48" MAXIMUM ABOVE FINISHED FLOOR.
- ALL DOOR THRESHOLDS SHALL BE IN 1/2" HIGH MAXIMUM.
- 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	R.O. SIZE	CONST.	GLASS TYPE	HEAD HEIGHT	REMARKS
W1	6'-9 1/4" x 9'-0"	ALUM	GL-1	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W2	11'-8 1/8" x 9'-0"	ALUM	GL-1 / GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W3	17'-6" x 9'-0"	ALUM	GL-1	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W4	15'-6 1/4" x 9'-0"	ALUM	GL-1	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W5	6'-0" x 5'-5 1/2"	ALUM	GL-1 / GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W6	6'-0" x 5'-5 1/2"	ALUM	GL-1 / GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W7	2'-0 3/4" x 2'-0 3/4"	ALUM	GL-1	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W8	5'-2 1/4" x 9'-0"	ALUM	GL-1 / GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH
W9	7'-5 1/2" x 9'-0"	ALUM	GL-1 / GL-2	9'-2"	BLACK ANODIZED (CLASS I, 0.7 MILS MINIMUM) FINISH

WINDOW SCHEDULE NOTES:

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



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5	10/27/2023	HEALTH COMMENTS
DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description
ISSUED FOR CONSTRUCTION		
		 PROJECT NORTH
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11.10.2023		
Company Logo		
 THE DIMENSION GROUP ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING 10755 SANDHILL ROAD, DALLAS, TEXAS 75238 TEL: 214-343-9400 www.dimensiongroup.com		
Project		
 POPEYES		
Store Type		
US 2112 PROTOTYPE 2112-21		
Location		
1517 NC 24-87 CAMERON, NC		
Drawing Title		
DOOR AND WINDOW SCHEDULES		
Drawn	SH	Checked AL
Scale	AS NOTED	Date JUNE 2023
Project No.	C22-129	Drawing No. A11

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

FINISHES



TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
EXTERIOR									
EF-1	Exterior Wood Siding	Front Facade Exterior Walls	Nichhsa Fiber Cement	Vintage Wood ANP 3030	Cedar	17-78" H x 119-5/16" L		Nota Makers	Matt Stephenson (617)719-8228 popeye@nichhsa.com
BRICK									
EB-1	Brick (Clip System)	Front of Building	Nichhsa Fiber Cement	Vintage Brick	White Wash Profinished	7.38" x 2 1/2" x 3/4"		Nota Makers	Matt Stephenson (617)719-8228 popeye@nichhsa.com
EB-2	Brick (Clip System)	Accent Tower Brick	Nichhsa Fiber Cement	Vintage Brick	Alexandria Buff	7.38" x 2 1/2" x 3/4"		Nota Makers	Matt Stephenson (617)719-8228 popeye@nichhsa.com
EB-2	Thin Brick	Accent Tower Brick	Creative Materials Corporation	Thin Brick	Flagstaff	8-18" x 2-1/16" x 5/8"		Nota Makers	Creative Materials Corporation (617) 800-207-2667 ext. 7197 Popeyesth@creativematerialscorp.com
EB-2	Face Brick	Accent Tower Brick	Glen-Gary	Cherry Creek Williamsburg	Red	8-5/8" x 2-13/16" x 3-1/8"		Nota Makers	
EB-2	Thin Brick	Accent Tower Brick	Design and Direct Source	Sand Urban Series	Flagstaff	2" x 8"		Nota Makers	
PAINT									
EP-1	Exterior Paint	Main Wall Surface, Rear Door	Benjamin Moore	Ultra Spec Ext Low Lustre (N455)	OC-125 Moonlight White			Nota Makers	Rodger Lippman (617) 845-702-0239 rodger.lippman@benjaminmoore.com
EP-1	Exterior Paint	Main Wall Surface, Rear Door	Sherwin Williams	A-100 Exterior Latex Satin	SW-7551 Greek Villa			Nota Makers	Glenn Ramer (617) 954-547-1217 glenn.ramer@sherwin.com
EP-2	Exterior Paint	Brick Tower Parapet	Benjamin Moore	Ultra Spec Ext Low Lustre (N455)	2105-20 Root Beer Candy			Nota Makers	Rodger Lippman (617) 845-702-0239 rodger.lippman@benjaminmoore.com

Exported on March 8, 2023 1:58:38 PM EST

Page 1 of 8

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
EP-2	Exterior Paint	Brick Tower Parapet	Sherwin Williams	A-100 Exterior Latex Satin	SW-6062 Rugged Brown			Nota Makers	Glenn Ramer (617) 954-547-1217 glenn.ramer@sherwin.com
EP-3	Exterior Paint	Dumpster Walls	Benjamin Moore	Ultra Spec Ext Low Lustre (N455)	HC-170 Sterington Grey			Nota Makers	Rodger Lippman (617) 845-702-0239 rodger.lippman@benjaminmoore.com
EP-3	Exterior Paint	Dumpster Walls	Sherwin Williams	A-100 Exterior Latex Satin	SW-7057 Trenchth			Nota Makers	Glenn Ramer (617) 954-547-1217 glenn.ramer@sherwin.com
EP-4	Metal Paint	Bollards	Benjamin Moore	Corotech High Solids Rapid Dry Enamel	Safety Yellow			Nota Makers	Rodger Lippman (617) 845-702-0239 rodger.lippman@benjaminmoore.com
EP-4	Metal Paint	Bollards	Sherwin Williams	Industrial Enamel HS	Safety Yellow			Nota Makers	Glenn Ramer (617) 954-547-1217 glenn.ramer@sherwin.com
EP-5	Metal Paint	Dumpster Gates and Pylon Pole	Benjamin Moore	Corotech High Solids Rapid Dry Enamel	Factory Finish Black			Nota Makers	Rodger Lippman (617) 845-702-0239 rodger.lippman@benjaminmoore.com
EP-5	Metal Paint	Dumpster Gates and Pylon Pole	Sherwin Williams	Industrial Enamel HS	SW-6991 Black Magic			Nota Makers	Glenn Ramer (617) 954-547-1217 glenn.ramer@sherwin.com
EP-6	Anti Graffiti Coat	Exterior Walls	Benjamin Moore	Alphatic Acrylic Urethane - Glass	V500-00 Clear			Nota Makers	Rodger Lippman (617) 845-702-0239 rodger.lippman@benjaminmoore.com

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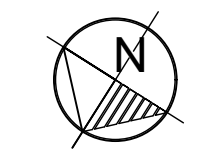
Page 2 of 8

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

ISSUED FOR CONSTRUCTION



PROJECT NORTH

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11.10.2023

Company Logo

ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL. 214-343-9400 www.dimensiongrp.com

Project

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
FINISH SCHEDULE

Drawn _____ Checked _____

Scale AS NOTED Date JUNE 2023

Project No. C22-129 Drawing No. A12.0

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
EP-6	Anti Graffiti Coat	Exterior Walls	Sherwin Williams	2K Water Based Urethane - Gloss	B65-190/865V190			Nola Makers	Glenn Ramsey (t) 489-560-6133 glenn.j.ramsey@shwin.com
INTERIOR									
CEILING									
C-1	Canopy - Metal	Drive Thru Window Canopy	Provided by Manufacturer	Provided by Manufacturer	Orange, Pantone #3564 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
S-1	Shutters - Poppy	Exterior Walls Rear of Building	Provided by Manufacturer	Provided by Manufacturer	Provided by Manufacturer			Nola Makers	Provided by Manufacturer
DP-1	Door	Main Entrance Doors	Provided by Manufacturer	Provided by Manufacturer	Orange, Pantone #3564 C			Nola Makers	Provided by Manufacturer
NOTE: Armstrong products can now be									
ACT-1G	Acoustic Ceiling Tile	Dining Room	Armstrong	Ultima	Color: White Finish: Fine Texture Grid: 9"X9" Beveled Regular	24x48"		Nola Makers	Cheryl S. Smith (t) 252-214-4428 csmith@armstrongceilings.com
ACT-2G	Acoustic Ceiling Tile	Back of House	GCUSG Interiors	Sheetrock Bland Climaplus Vinyl	Color: 3770 White Finish: Smooth	24X48X1/2		Nola Makers	Cheryl S. Smith (t) 252-214-4428 csmith@armstrongceilings.com
FLOORING									
TL-1	Base Tile	Wall Base	Creative Materials Corporation	Business - Slate 2.0	Color: Matte, Grout: Ultracolor Plus Iron #107	6X24, Thickness: 10.5mm		Nola Makers	Creative Materials Corporation (t) 1-800-207-2967 Ext. 7797 Popeye@creativematerialscorp.com
TL-1	Base Tile	Wall Base	Daltile		Color: Ash Grey, Grout: Maipel Iron #107	6X24		Nola Makers	Alexandra Stefan (t) 305-477-8216 (t) 305-975-0959 E-Mail: Alexandra.stefan@daltile.com
TL-1	Base Tile	Wall Base	Emser Tile	Louisiana	Color: Slate Elevate, Grout: Latitecote Dusty Grey	6X24		Nola Makers	Christina Dunbar / Sandra Torres Holland (t) 713-462-2411 popeye@emser.com

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Page 3 of 8

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
TL-1	Base Tile	Wall Base	Bedrosian Tile	Moderna	Color: Grey, Grout: Latitecote Dusty Grey	6X24		Nola Makers	Tamara Ramsey (t) 489-560-6133 popeye@bedrosians.com
TL-2	Tile	Dining Room Floor and Restroom Walls	Creative Materials Corporation	Business - Slate 2.0	Finish: Natural/Clothed Body Porcelain Glazed Color Body Grout Color: Ultracolor Plus Iron #107	24X24, Thickness: 10.5mm		Nola Makers	Creative Materials Corporation (t) 1-800-207-2967 Ext. 7797 Popeye@creativematerialscorp.com
TL-2	Tile	Dining Room Floor and Restroom Walls	Daltile		Color: Ash Grey, Grout: Maipel Iron #107	24X24		Nola Makers	Alexandra Stefan (t) 305-477-8216 (t) 305-975-0959 E-Mail: Alexandra.stefan@daltile.com
TL-2	Tile	Dining Room Floor and Restroom Walls	Emser Tile	Louisiana	Color: Slate Elevate, Grout: Latitecote Dusty Grey	24X24		Nola Makers	Christina Dunbar / Sandra Torres Holland (t) 713-462-2411 popeye@emser.com
TL-2	Tile	Dining Room Floor and Restroom Walls	Bedrosian Tile	Moderna	Color: Grey, Grout: Latitecote Dusty Grey	24X24		Nola Makers	Tamara Ramsey (t) 489-560-6133 popeye@bedrosians.com
TL-3	Tile	Restroom Floor Tile	Creative Materials Corporation	Business - Slate 2.0	Finish: Natural/Clothed Body Porcelain Glazed Color Body Grout Color: Ultracolor Plus Iron #107	12X24, Thickness: 10.5mm		Nola Makers	Creative Materials Corporation (t) 1-800-207-2967 Ext. 7797 Popeye@creativematerialscorp.com
TL-3	Tile	Restroom Floor Tile	Daltile		Color: Ash Grey, Grout: Maipel Iron #107	12X24		Nola Makers	Alexandra Stefan (t) 305-477-8216 (t) 305-975-0959 E-Mail: Alexandra.stefan@daltile.com
TL-3	Tile	Restroom Floor Tile	Emser Tile	Louisiana	Color: Slate Elevate, Grout: Latitecote Dusty Grey	12X24		Nola Makers	Christina Dunbar / Sandra Torres Holland (t) 713-462-2411 popeye@emser.com
TL-3	Tile	Restroom Floor Tile	Bedrosian Tile	Moderna	Color: Grey, Grout: Latitecote Dusty Grey	12X24		Nola Makers	Tamara Ramsey (t) 489-560-6133 popeye@bedrosians.com
TL-4									

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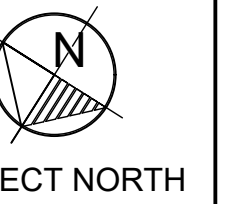
Page 4 of 8

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION



PROJECT NORTH

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11.10.2023

Company Logo

THE DIMENSION GROUP
ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL. 214-343-9400 www.dimensiongrp.com

Project

POPEYES

Store Type
**US 2112 PROTOTYPE
2112-21**

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
FINISH SCHEDULE

Drawn _____ Checked _____

Scale
AS NOTED

Date
JUNE 2023

Project No.
C22-129

Drawing No.
A12.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
TL-4	Wall Tile	Front Service Counter Walls	Creative Materials Corporation	Subway Tile / Painted Brick	Color: Densi - White Ice Finish: Matte Grout Color: Ultracolor Plus Rain #101	3"x12", Thickness: 6 mm.			Nola Makers Creative Materials Corporation (t) 1-800-207-2987 Ext. 7797 Poppeyette@creativematerialscorp.com
TL-4	Wall Tile	Front Service Counter Walls	Daltile	National Account	Color: Color Wheel N24 White Grout: Maple Rain #101	3" x 12"			Alexandra Stefan (t) 305-477-8216 (c) 305-975-0089 E-Mail: Alexandra.stefan@daltile.com
TL-4	Wall Tile	Front Service Counter Walls	Emser Tile	Catch	Color: Ice Grout: Latcrete Smoke Grey	3" x 12"			Christina Dunbar / Sandra Torres Holland (t) 713-462-2411 poppey@emser.com
TL-4	Wall Tile	Front Service Counter Walls	Bedrosian Tile	Traditions	Color: White Grout: Latcrete Smoke Grey	3" x 12"			Tamara Ramsey (t) 409-560-6153 poppey@bedrosians.com
TL-5	Wall Tile	Restroom Accent Band - Blank Spaces	Creative Materials Corporation	Boon and Bearing	Color: White Finish: Matte Grout Color: Poppey's Custom Color	4.25"x8.5"			Creative Materials Corporation (t) 1-800-207-2987 Ext. 7797 Poppeyette@creativematerialscorp.com
TL-5	Wall Tile	Restroom Accent Band - Blank Spaces	Daltile		Color: Arctic White 0790 Finish: Matte Grout Color: Poppey's Custom Color	4x8			Alexandra Stefan (t) 305-477-8216 (c) 305-975-0089 E-Mail: Alexandra.stefan@daltile.com
TL-5	Wall Tile	Restroom Accent Band - Blank Spaces	Emser Tile	Select	Color: White Finish: Matte Grout Color: Poppey's Custom Color	4x8			Christina Dunbar / Sandra Torres Holland (t) 713-462-2411 poppey@emser.com
TL-5	Wall Tile	Restroom Accent Band - Blank Spaces	Bedrosian Tile						Tamara Ramsey (t) 409-560-6153 poppey@bedrosians.com
TL-6	Wall Tile	Restroom Accent Band - Teal Letters	Creative Materials Corporation	Custom Poppey's Letter Logo Tile Sets	Color: White Finish: Matte Lettering Font: Chicken Sans Grout And Letters To Match Color: BM OC-669 "Oceanic Teal"	4.25"x8.5"			Creative Materials Corporation (t) 1-800-207-2987 Ext. 7797 Poppeyette@creativematerialscorp.com
TL-6	Wall Tile	Restroom Accent Band - Teal Letters	Daltile						Alexandra Stefan (t) 305-477-8216 (c) 305-975-0089 E-Mail: Alexandra.stefan@daltile.com
TL-6	Wall Tile	Restroom Accent Band - Teal Letters	Emser Tile	Select	Color: White Finish: Matte Lettering Font: Chicken Sans Grout And Letters To Match Color: BM OC-669 "Oceanic Teal"	4x8			Christina Dunbar / Sandra Torres Holland (t) 713-462-2411 poppey@emser.com
TL-6	Wall Tile	Restroom Accent Band - Teal Letters	Bedrosian Tile						Tamara Ramsey (t) 409-560-6153 poppey@bedrosians.com
QT-1									

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
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			Creative Materials Corporation (t) 1-800-207-2987 Ext. 7797 Poppeyette@creativematerialscorp.com
QT-1	Alternate: Quarry Tile	Back of House Floors	Daltile		Color: OT03 Ashen Gray	6x6			Alexandra Stefan (t) 305-477-8216 (c) 305-975-0089 E-Mail: Alexandra.stefan@daltile.com
QT-1	Alternate: Quarry Tile	Back of House Floors	Emser Tile	E-Quarry	Color: Smoke Finish: Smooth Grout: Latcrete Sandstone	6x6			Christina Dunbar / Sandra Torres Holland (t) 713-462-2411 poppey@emser.com
QT-1	Alternate: Quarry Tile	Back of House Floors	Bedrosian Tile	Mason	Color: Morning Fog Grout: Latcrete Sandstone	6x6			Tamara Ramsey (t) 409-560-6153 poppey@bedrosians.com
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			Creative Materials Corporation (t) 1-800-207-2987 Ext. 7797 Poppeyette@creativematerialscorp.com
QT-2	Alternate: Quarry Tile Base	Back of House Base	Daltile		Color: OT03 Ashen Gray	6x6			Alexandra Stefan (t) 305-477-8216 (c) 305-975-0089 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: Latcrete Sandstone	6x6			Christina Dunbar / Sandra Torres Holland (t) 713-462-2411 poppey@emser.com
QT-2	Alternate: Quarry Tile Base	Back of House Base	Bedrosian Tile	Mason	Color: Morning Fog Grout: Latcrete Sandstone	6x6			Tamara Ramsey (t) 409-560-6153 poppey@bedrosians.com
E-1	Primary: Resin Flooring	Back of House Floors	Sikal	Acrylic Resin	Color: Quartz Blend #4 Integral Core Base				Mark Helms (t) 772-772-2797 (c) 772-320-1426 mhelms@sikilamerica.com
BR-1	Brick (Clip System)	Dining Room Accent Walls	Nichie Fiber Cement	Vintage Brick	White Wash Prefinished	7.38" x 2.12" x 3.4"			Matt Stephenson (t) 707-789-8229 poppey@mniche.com
PT-1	Interior Paint	Interory Walls, Beadboard, Brick Walls And Soffit/Ceiling	Benjamin Moore	Ultra Spec 500 Eggshell	OC-068 Distant Gray				Rodger Lippman (t) 848-703-0229 rodger.lippman@benjaminmoore.com

No.	Date (mm/dd/yy)	Description

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

No.	Date	Description

ISSUED FOR CONSTRUCTION



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11.10.2023

Company Logo

ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL. 214-343-9400 www.dimensiongp.com

Project

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
FINISH SCHEDULE

Drawn	Checked
Scale AS NOTED	Date JUNE 2023
Project No. C22-129	Drawing No. A12.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
PT-1	Interior Paint	Interior Walls, Beadboard, Brick Walls And Ceiling	Sherwin Williams	Promar 200 Zero VOC Eggshell	SW-7551 Greek Villa			Nola Makers	Glenn Ramler (31) 954-547-1217 glenn.j.ramler@sherwin.com
PT-2	Metal Paint	Main Entrance Doors - Interior Frame	Benjamin Moore	Concert High Solids Rapid Dry Enamel	2133-20 Black Jack			Nola Makers	Rodger Lippman (31) 449-702-0229 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 Ramler (31) 954-547-1217 glenn.j.ramler@sherwin.com
PT-3	Interior Paint	Orange Brick Accent Wall	Benjamin Moore	Ultra Spec 500 Eggshell	091 Tangerine Melt			Nola Makers	Rodger Lippman (31) 449-702-0229 rodger.lippman@benjaminmoore.com
PT-3	Interior Paint	Orange Brick Accent Wall	Sherwin Williams	Promar 200 Zero VOC Eggshell	SW-6886 Invigorate			Nola Makers	Glenn Ramler (31) 954-547-1217 glenn.j.ramler@sherwin.com
PT-4	Interior Paint	Restroom Walls	Benjamin Moore	Ultra Spec 500 Eggshell	OC-669 Oceanic Teal			Nola Makers	Rodger Lippman (31) 449-702-0229 rodger.lippman@benjaminmoore.com
PT-4	Interior Paint	Restroom Walls	Sherwin Williams	Promar 200 Zero VOC Eggshell	SW-0075 Holiday Turquoise			Nola Makers	Glenn Ramler (31) 954-547-1217 glenn.j.ramler@sherwin.com

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Page 7 of 8

TAG	MATERIAL	APPLICATION	SOURCE	PRODUCT	COLOR	DIMENSION	REF IMAGE	IMAGE TYPE	VENDOR
PT-5	Interior Paint	Restroom Door Frame	Benjamin Moore	Ultra Spec 500 Eggshell	1127 Sedona Brown			Nola Makers	Rodger Lippman (31) 449-702-0229 rodger.lippman@benjaminmoore.com
PT-5	Interior Paint	Restroom Door Frame	Sherwin Williams	Promar 200 Zero VOC Eggshell	SW-6103 Tea Chest			Nola Makers	Glenn Ramler (31) 954-547-1217 glenn.j.ramler@sherwin.com
F-1	Beadboard	Restroom Vestibule Accent Walls	GC	Beadboard Paneling	Painted PT-1	4" - Channel Bead 1/8" X 1/8"		Nola Makers	GC
WT-1	Wall Tile	Dining Room Accent Walls	Creative Materials Corporation	Motivate	Color: Walnut Finish: Natural	8"X40" 3MM		Nola Makers	Creative Materials Corporation (31) 850-327-2887 Ext. 7797 Popeyes@creativematerials.com
L-1	Restroom Door Faces	Interior Door Laminates	GC	Laminates	Mocha Modern Cherry - WAGSEV			Nola Makers	GC
L-1	Restroom Door Faces	Interior Door Laminates	Sherwin Williams	Stain Minwax	439 Walnut			Nola Makers	Glenn Ramler (31) 954-547-1217 glenn.j.ramler@sherwin.com
SS-1	Solid Surface	Front Service Counter Top	Provided by Decor Vendor	H-MACS	G554 Urban Concrete			Nola Makers	Decor Vendor
SS-2	Solid Surface	Front of House Window Sills	GC	H-MACS	G554 Urban Concrete			Nola Makers	GC
W-1	FRP Sheet	Back of House Walls	Marite	FRP Sheet	Color: P100 - White Finish: Pebble			Nola Makers	

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Page 8 of 8

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
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4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION



PROJECT NORTH

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11.10.2023

Company Logo

Project

Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
FINISH SCHEDULE

Drawn	Checked
Scale AS NOTED	Date JUNE 2023
Project No. C22-129	Drawing No. A12.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

PROJECT SPECIFICATIONS

DIVISION 01 - GENERAL REQUIREMENTS

DIVISION 02 - EXISTING CONDITIONS (NOT INCLUDED)

DIVISION 03 - CONCRETE

DIVISION 04 - MASONRY

DIVISION 05 - METALS

DIVISION 06 - WOOD, PLASTICS AND COMPOSITES

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

DIVISION 08 - OPENINGS

DIVISION 09 - FINISHES

DIVISION 10 - SPECIALTIES

DIVISION 12 - WINDOW TREATMENTS

DIVISION 22 - PLUMBING

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

DIVISION 26 - ELECTRICAL

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.

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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCREPANCIES, OMISSIONS, OR DOUBTS AS TO MEANING OF THE DRAWINGS AND SPECIFICATIONS SHALL BE COMMUNICATED IN WRITING TO THE OWNER FOR INTERPRETATION.

B. IN THE EVENT OF AMBIGUITY OR CONTRADICTION, ARCHITECT OF RECORD WILL BE THE FINAL JUDGE ON PLAN INTERPRETATION. BIDDERS SHOULD NOT ASSUMPTIVELY 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 SHALL BE ACKNOWLEDGED BY THE BIDDER BY HIS SIGNATURE AFFIXED HERETO AT THE TIME OF RECEIPT AND VERIFIED BY HIS ACKNOWLEDGMENT ON THE BID FORM.

C. EACH PROSPECTIVE BIDDER SHALL REVIEW THE BIDDING DOCUMENTS TO COMPLETE THEIR BID.

D. PREPARATION & SUBMISSION OF BIDS:

1. THE BIDDER IS REQUIRED TO BID ON ALL ALTERNATES AND/OR ALLOWANCES OR ON ALL LINE ITEMS CALLED FOR IN THE BID FORM, EXCEPT THOSE ALTERNATES WHICH ARE CALLED FOR BY METHOD OF CONSTRUCTION AS TO WHICH BIDDER DOES NOT DESIRE TO BID. HE MAY ASSESS THE WORK TO BID IN THE SPACE PROVIDED FOR PRICES ON SUCH ALTERNATE TYPE OR METHOD OF CONSTRUCTION.

2. BIDS SHALL BE SUBMITTED AND SEALED IN ENVELOPES AND SHALL BE SIGNED IN INK. ERRORS OR OTHER CHANGES IN A BID MUST BE EXPANDED OR NOTED ON THE ENVELOPE. BIDDERS MUST CONTAIN ANY CONDITIONS, OMISSIONS, UNEXPLAINED ERRORS OR ALTERNATES, OR ITEMS NOT CALLED FOR IN THE PROPOSAL, OR IRREGULARITIES OF ANY KIND, AND MAY BE REJECTED BY THE OWNER AS BEING INCOMPLETE.

3. BIDS SHALL BE ACCOMPANIED BY ONE (1) SIGNED COPY OF POPEYES STANDARD BID ANALYSIS AS REQUIRED BY THE CONTRACT. INDIVIDUAL LINE ITEMS ARE TO BE SHOWN AT THE GENERAL CONTRACTOR'S COST FOR LABOR AND MATERIALS. THE GENERAL CONTRACTOR, HOWEVER, EACH LINE ITEM SHALL INDICATE THE FULL VALUE OF THE CONTRACTOR'S OVERHEAD AND PROFIT. SUPERINTENDENT'S OVERHEAD AND PROFIT. ITEMIZATION SHALL BE SHOWN ON THE APPROPRIATE LINES.

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

5. THE OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.

6. STANDARD FORMS:

- AA DOCUMENT A300 - CONTRACTORS QUALIFICATIONS STATEMENT.
- AA DOCUMENT G701 - CHANGE ORDER.
- AA DOCUMENT G702 - APPLICATION AND CERTIFICATE OF PAYMENT. THIS DOCUMENT SUMMARIZES THE CONTRACTOR'S CURRENT WORK COMPLETED, STORED MATERIALS, RETAINAGE, PREVIOUS CERTIFICATES OF PAYMENT, AND THE CURRENT AMOUNT DUE.
- AA DOCUMENT G703 - CONTINUATION SHEET (ONE (1) OR MORE SHEETS AS REQUIRED). THIS DOCUMENT SUMMARIZES THE WORK COMPLETED AND DOCUMENTS G702. IT PROVIDES A PROJECT SUMMARY, LABOR AND MATERIALS, WHEN LABOR IS PAID BY THE CONTRACTOR DIRECTLY TO THE TRADES. THE FORMS ARE GIVEN UNDER STANDARD FORMS.
- AA DOCUMENT G704 - APPLICATION AND CERTIFICATE OF PAYMENT.
- AA DOCUMENT G705 - CONTINUATION SHEET.
- AA DOCUMENT G706 - CONTRACTORS AFFIDAVIT OF DISCLOSURE OF DEBTS AND CLAIMS. THIS FORM IS PROVIDED BY POPEYES LOUISIANA KITCHEN, INC.
- AA DOCUMENT G707 - CONTRACTORS AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS. THIS DOCUMENT, THE CONTRACTOR SWEARS THAT ALL SUBCONTRACTORS AND MATERIAL MEN ARE DISCLOSED ON G703 AND THAT EACH HAS BEEN PAID.
- AA DOCUMENT G708 - CONTRACTORS AFFIDAVIT OF RELEASE OF LIENS. IN THIS DOCUMENT, THE CONTRACTOR SWEARS THAT ALL SUBCONTRACTORS AND MATERIAL MEN ARE DISCLOSED ON G703 AND THAT WAIVERS OF LIENS, HIS OWN INCLUDED, ARE ATTACHED.
- AA DOCUMENT G709 - LIST OF SUBCONTRACTORS.
- AA DOCUMENT G710 - CHANGE ORDER AUTHORIZATIONS.
- AA DOCUMENT G711 - CONTRACTOR'S FORM OF WAIVER OF LIENS. THIS DOCUMENT, THE CONTRACTOR SWEARS THAT ALL SUBCONTRACTORS AND MATERIAL MEN ARE DISCLOSED ON G703 AND THAT WAIVERS OF LIENS, HIS OWN INCLUDED, ARE ATTACHED.
- AA DOCUMENT G712 - PARTIAL WAIVER OF LIEN FORM. IN THIS FORM, THE CONTRACTOR, SUBCONTRACTORS AND MATERIAL MEN WAIVE THEIR RIGHT TO FILE A LIEN FOR WORK PERFORMED TO DATE. THIS DOCUMENT IS ACCEPTABLE FOR INTERIM CERTIFICATES OF PAYMENT.
- FINAL WAIVER OF LIEN FORM. IN THIS FORM, THE CONTRACTOR, SUBCONTRACTORS AND MATERIAL MEN WAIVE THEIR RIGHT TO FILE A LIEN FOR WORK.
- CONTRACTORS 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 FROM CONTRACTORS, SUBCONTRACTORS, OR MATERIAL MEN 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:

A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", STANDARD FORM-A OF THE AMERICAN INSTITUTE OF ARCHITECTS, FORM-A-201, LATEST EDITION, ARE HEREBY, EXCEPT AS THE SAME MAY BE INCONSISTENT HEREWITH, MADE A PART OF THIS SPECIFICATION. COPIES TO BE OBTAINED AND ARE INCORPORATED BY REFERENCE AND HEREBY MADE A PART OF THE CONTRACT.

B. WHERE ANY ARTICLE OF THE "GENERAL CONDITIONS" IS SUPPLEMENTED HEREBY THE AIA PROVISION OF SUCH ARTICLE SHALL REMAIN IN EFFECT. ALL SUPPLEMENTARY CONDITIONS SHALL BE CONSIDERED AS IF ADDED THERETO. WHERE ANY PORTION OF SUCH ARTICLE IS AMENDED, VOIDED, OR SPECIFICALLY AMENDED, VOIDED, OR SUPPLEMENTED SHALL REMAIN IN EFFECT.

C. THE GENERAL CONDITIONS SUPPLEMENTARY CONDITIONS AND APPLICABLE PORTIONS OF DIVISION 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 SUCH ARTICLE SHALL BE DELETED AND THE REGULATIONS PROMULGATED IN ACCORDANCE THEREIN.

E. CONTRACTOR SHALL, NECESSARY 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.

F. ARTICLE 3 LABOR AND MATERIALS OF SAID "GENERAL CONDITION" PARAGRAPH 4.1 IS HEREBY AMENDED AND SUPPLEMENTED AS FOLLOWS: "ALL CONTRACTORS AND SUBCONTRACTORS EMPLOYED UPON THE WORK SHALL BE REQUIRED TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LABOR LAWS AND VARIOUS ACTS AMENDATORY AND SUPPLEMENTARY THERETO AND TO ALL OTHER LAWS, ORDINANCES, AND LEGAL REQUIREMENTS APPLICABLE THERETO."

G. ARTICLE 3.6 TAXES OF SAID "GENERAL CONDITIONS" PARAGRAPH 3.1 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."

H. 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 BE LIABLE TO THE OWNER FOR THE CORRECTION OF 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."

I. ARTICLE 3.10 CLEANING UP OF SAID "GENERAL CONDITIONS" PARAGRAPH 4.1.1 IS HEREBY AMENDED AND ADDED AS FOLLOWS: "THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL CRATES, PACKING, DEBRIS, ETC. FROM KITCHEN EQUIPMENT. HE SHALL BROOD 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."

J. ARTICLE 11 - INSURANCE:

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. WORKMANS 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: \$2,000,000 PER OCCURRENCE
4. EXCESS (UMBRELLA) LIABILITY: \$2,000,000 PER OCCURRENCE

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 CANCELLED 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 OF THE WORK OR TERMINATION OF THIS CONTRACT.

DIVISION 01 - GENERAL REQUIREMENTS

DIVISION 02 - SITE WORK

DIVISION 03 - CONCRETE

DIVISION 04 - MASONRY

DIVISION 05 - METALS

DIVISION 06 - WOOD, PLASTICS AND COMPOSITES

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

DIVISION 08 - OPENINGS

DIVISION 09 - FINISHES

DIVISION 10 - SPECIALTIES

DIVISION 12 - WINDOW TREATMENTS

DIVISION 22 - PLUMBING

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

DIVISION 26 - ELECTRICAL

APPROVED SUPPLIERS LIST

DIVISION 01 - GENERAL REQUIREMENTS

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DIVISION 26 - ELECTRICAL

APPROVED SUPPLIERS LIST

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

REVISIONS

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ISSUED FOR CONSTRUCTION

No.	Date	Description
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DIVISION 03 - CONCRETE
REINFORCED CONCRETE 03 30 00

PART 1 - GENERAL

- 1. SUMMARY
A. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.
2. REFERENCE STANDARDS BY THE AMERICAN CONCRETE INSTITUTE (ACI)
1. AC 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE," EXCEPT AS SPECIFICALLY MODIFIED IN THE SPECIFICATIONS AND/OR HEREIN.
2. AC 308, "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 DETAILER OTHERWISE IN THE STRUCTURAL DRAWINGS.

2. ACTION SUBMITTALS

- A. PRODUCT DATA, FOR EACH TYPE OF PRODUCT INDICATED.
B. DESIGN MIXTURES FOR EACH CONCRETE MIXTURE.
C. STEEL REINFORCEMENT SHOP DRAWINGS, INCLUDING DETAILS 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.

3. INFORMATIONAL SUBMITTALS

- A. WELDING CERTIFICATES.
B. MATERIAL CERTIFICATES.
C. MATERIAL TEST REPORTS.
D. FLOOR SURFACE FLATNESS AND LEVELNESS MEASUREMENTS.
4. QUALITY ASSURANCE
A. MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING READY-MIXED CONCRETE PRODUCTS AND THAT COMPLIES WITH ASTM C 940 AND REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT.
1. MANUFACTURER CERTIFIED ACCORDING TO MINIMUM CERTIFICATION OF READY-MIXED CONCRETE PRODUCTS.
2. MANUFACTURER CERTIFIED ACCORDING TO MINIMUM CERTIFICATION OF READY-MIXED CONCRETE PRODUCTS.
3. MANUFACTURER CERTIFIED ACCORDING TO MINIMUM CERTIFICATION OF READY-MIXED CONCRETE PRODUCTS.
4. MANUFACTURER CERTIFIED ACCORDING TO MINIMUM CERTIFICATION OF READY-MIXED CONCRETE PRODUCTS.

5. TESTING, AGENCIES, AND INDEPENDENT ACCEPTANCE

- A. TESTING AGENCIES: QUALIFIED LABORATORY ACCREDITED TO ASTM C 107 AND ASTM C 158 FOR CONCRETE TESTING.
B. TESTING AGENCIES: QUALIFIED LABORATORY ACCREDITED TO ASTM C 107 AND ASTM C 158 FOR CONCRETE TESTING.

6. WELDING QUALIFICATIONS

- A. WELDING QUALIFICATIONS: QUALIFIED PERSONNEL ACCORDING TO AWS D 11.4M, "STRUCTURAL WELDING CODE - REINFORCING STEEL."

7. ADDITIONAL REQUIREMENTS

- A. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.
2. ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE."

8. CONCRETE TESTING SERVICE

- A. CONCRETE TESTING SERVICE: ENGAGE A QUALIFIED INDEPENDENT TESTING AGENCY TO CONDUCT MATERIAL LABORATORY 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 SPECIFICATIONS.

C. BAR SUPPORTS

- A. BAR SUPPORTS: BOLTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND WELDED WIRE FABRIC IN CONCRETE. PROVIDE BAR SUPPORTS FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE ACCORDING TO INSTRUCTIONS.

2.2 FIELD MANUAL

- A. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE AIA FIELD REFERENCE MANUAL, 9th EDITION, IN THE FIELD OFFICE AT ALL TIMES.

2.3 FOOTINGS AND FOUNDATION WALLS

- A. PROVIDE AND INSTALL DOWELS IN CONCRETE FOOTINGS TO MATCH VERTICAL WALLS AND CONTINUOUS VERTICAL CONCRETE WALLS.
1. WHERE CORNER IS CONSTRUCTED ON TOP OF FOOTINGS PROVIDE 4 BAR DIAMETER REINFORCING LAP SPICES BETWEEN DOWELS AND VERTICAL WALL REINFORCING.

B. INITIAL CORNER BARS AT FOUNDATION WALLS AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING.

C. INITIAL LEAN CONCRETE CLASS 10

- A. INITIAL LEAN CONCRETE CLASS 10: USE IN FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS, AND TRENCHES.
C. SAMPLES FOR VERIFICATION:
1. FACE BRICK IN THE FORM OF STRAPS OF FIVE OR MORE BRICKS.

D. CONCRETE FOUNDATION WALLS

- A. CONCRETE FOUNDATION WALLS: NOT BE 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 STRENGTH.

24. PROVIDE 4 BAR DIAMETER LAP SPICES AT ENDS OF CONTINUOUS HORIZONTAL AND CONTINUOUS VERTICAL CONCRETE WALLS.

25. CONCRETE COVER

- A. CONCRETE CAST AGAINST AND POSITIVELY REINFORCED TO MATCH OTHERS.
B. CONCRETE EXPOSED TO EARTH OR WEATHER 85 BARS AND SMALLER OTHERS 1-1/2 INCHES.

26. VAPOR RETARDERS

- A. SHEET VAPOR RETARDER: ASTM F 726, INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE.
B. SHEET VAPOR RETARDER: POLYETHYLENE SHEET, ASTM A 497, NOT LESS THAN 10 MILS THICK.

PART 3 - EXECUTION

3.1 FORMWORK

- A. DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO AC 301, TO SUPPORT REINFORCING, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MUST BE APPLIED TO WALLS, STRUCTURE OR SUPPORT SUCH LOADS.
B. CONSTRUCTION FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITH TOLERANCE LIMITS OF AS FOLLOWS.

3.2 EMBOSSED TITMS

- 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, TEST PLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.

3.3 VAPOR RETARDERS

- A. SHEET VAPOR RETARDERS: LAYOUT, PROTECT, AND REPAIR SHEET VAPOR RETARDER ACCORDING TO ASTM F 726 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 CRISIS MANUAL OF STANDARD PRACTICE FOR PLACING REINFORCEMENT.
1. DO NOT CUT OR INFLUENCE VAPOR RETARDER, REPAIR DAMAGE AND RESEAL VAPOR RETARDER BEFORE PLACING REINFORCEMENT.

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. CONNECTION JOINTS IN SLABS ON GRADE

- A. CONNECTION JOINTS IN SLABS ON GRADE: FORM WEAKENED-JOINT CONNECTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED ON CONNECTION PLAN.
1. GROOVED JOINTS: FORM CONNECTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT TO A RADIUS OF 18 INCH. REPEAT GROOVING OF CONNECTION JOINTS AFTER APPLYING SURFACE FINISH TO ELIMINATE GROOVER TOOL MARKS ON CONCRETE SURFACES.
2. SAVED JOINTS: FORM CONNECTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-BEDED BLADES. CUT 3/8-INCH-WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRASE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION CRACKS.

D. ISOLATION JOINTS IN SLABS ON GRADE

- A. ISOLATION JOINTS IN SLABS ON GRADE: AFTER FINISHING FORMWORK, INSTALL JOINT FORMER STRIPS AT SLAB JOINTS WITH VERTICAL SURFACES, SUCH AS COLUMN PEDASTALS, FOUNDATION WALLS, BRACES, AND OTHER LOCATIONS, AS INDICATED. WATERSTOPPERS: INSTALL IN CONNECTION 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 IS NOT HARD ENOUGH TO CAUSE SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS AS INDICATED. DO NOT CONCRETE TO VOID SEGREGATION.

C. CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT

- A. ACCORDING TO AC 301.
C. COLD-WEATHER PLACEMENT: COMPLY WITH ACI 308.1.
D. HOT-WEATHER PLACEMENT: COMPLY WITH ACI 305.

3.7 FINISHING FORMED SURFACES

- A. ROUGH-FORMED FINISH: AS-CAST CONCRETE TEXTURE IMPARTED BY FORMING CAST MATERIAL WITH THE HOLES AND DEFECTS REPAIRED AND PATCHED. REMOVE FINISH AND OTHER PROTECTIONS 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 FORMING CAST MATERIAL, ARRANGED IN AN ORDERLY AND MECHANICAL MANNER WITH A MINIMUM OF SEAMS, REPAIR AND PATCH 1/8 HOLES AND DEFECTS. REMOVE FINISH AND OTHER PROTECTIONS THAT EXCEED SPECIFIED LIMITS ON FORMED-SURFACE IRREGULARITIES.

C. 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-)

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

- 1. SMOOTH-FORMED FINISH: NOT LATER THAN ONE DAY AFTER FORM REMOVAL, MOSTEN CONCRETE SURFACES AND RUB WITH CARBORUNDUM BRICK OR OTHER ABRASIVE UNTIL PRODUCING A UNIFORM COLOR AND TEXTURE. DO NOT APPLY CEMENT GROUT OTHER THAN THAT CREATED BY THE RUBBING PROCESS.

DIVISION 04 - MASONRY
UNIT MASONRY 04 20 00

PART 1 - GENERAL

- 1. RELATED DOCUMENTS
A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

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 530.1/ASCE 5-16/ACI 216, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES."
2. ACI 530.1/ASCE 5-16/ACI 216, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES."

3. CONSTRUCTION TOLERANCES

- A. CONSTRUCTION TOLERANCES: CONFORM TO PARAGRAPH 1.8.D.

4. DELIVERY, STORAGE, AND HANDLING

- A. DELIVER MASONRY MATERIALS TO PROJECT IN UNDAUNAGED CONDITION.

5. STORE AND HANDLE MASONRY UNITS OFF THE GROUND

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

C. STORE CEMENTITIOUS MATERIALS OFF THE GROUND

- A. STORE CEMENTITIOUS MATERIALS OFF THE GROUND, UNDER COVER, AND IN DRY LOCATIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, CONTAMINANTS, CHANGES, CONTAMINANTS, CORROSION, AND OTHER CAUSES. IF UNITS BECOME WET, DO NOT PLACE UNITS, UNITS ARE IN AN AIR-CURED CONDITION.

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

7. STORE MASONRY ACCESSORIES INCLUDING METAL ITEMS TO PREVENT CORROSION AND ACCUMULATION OF DIRT AND OILS.

14. PROJECT CONDITIONS

- A. PROTECTION OF MASONRY: DURING ERECTION, COVER TOPS OF WALLS, PROJECTIONS, AND BELLS WITH 1/2-INCH THICK SHEET PILE END OF EACH SECTION OF WORK PARTIALLY COMPLETED MAINTAINING WHEN CONSTRUCTION IS NOT IN PROGRESS.
1. EXTEND COVER A MINIMUM OF 6 INCHES DOWN BOTH SIDES AND HOLD COVER SECURELY IN PLACE.

B. STAIN PREVENTION

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

C. PROTECT SURFACES

- A. PROTECT SURFACES: PROTECT MASONRY SURFACES FROM SPATTER BY MEANS OF COVERINGS SPREAD ON GROUND AND OVER WALL SURFACES.

D. PROTECT SLITS, LEDGES, AND PROJECTIONS FROM MORTAR DROPPINGS.

E. PROTECT SURFACES OF WINDOWS AND DOORWAYS, AS WELL AS SIMILAR PRODUCTS THAT ARE PART OF THE MASONRY FRAME AND MASONRY SOLIDLY WITH MORTAR, UNLESS OTHERWISE NOTED.

F. COLD-WEATHER CONSTRUCTION: COMPLY WITH REFERENCED UNIT MASONRY STANDARD FOR COLD-WEATHER CONSTRUCTION AND THE FOLLOWING.

- 1. DO NOT LAY MASONRY UNITS THAT ARE FROZEN OR FROZEN.

2. REMOVE MASONRY DAMAGED BY FREEZING CONDITIONS.

3. MAINTAIN CONTRACTIONS: COMPLY WITH REFERENCED UNIT MASONRY STANDARD.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. CONCRETE BLOCK: ASTM C 90, MINIMUM NET AVERAGE COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS IS 2,800 PSI.
1. END BEAM AND CORE FILL: ASTM C 901, COARSE TYPE, MINIMUM COMPRESSIVE STRENGTH: 2,500 PSI.

2. SIZE: PROVIDE CONCRETE MASONRY UNITS COMPLYING WITH REQUIREMENTS SPECIFIED BELOW FOR EACH TYPE OF MASONRY UNIT.

3. CONCRETE SURFACE REFINISH

- A. CONCRETE SURFACE REFINISH: MANUFACTURED TO 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

- A. CONCRETE MASONRY UNITS WITH INTEGRAL WATER REPELLANT: WHEN SHOWN, PROVIDE UNITS MADE WITH LIQUID POLYMER, INTEGRAL WATER REPELLANT ADJUTIVE THAT DOES NOT REQUIRE FLEXURAL BOND STRENGTH FOR EXPOSED SURFACES. PRODUCT: SOLID CONSTRUCTION PRODUCTS, A UNIT, 8 IN. GRADE C CO., CONN., "DRY-BLOCK"

22. BRICK (AS APPLICABLE)

- A. STANDARD FACE BRICK AS MANUFACTURED BY BORG, GENERAL SHALE, OR BELDEN BRICK TO COMPLY WITH ASTM 216, SEVERE WEATHERING GRADE, TYPE FS.

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 SWAPES AS REQUIRED TO COMPLETE THE WORK AS DESCRIBED IN THE DRAWINGS.

4. WEED HOLES AND VENTS

- A. MORTAR AND GROUT MIXES
B. MORTAR: TYPE S, MINIMUM COMPRESSIVE STRENGTH - 1,800 PSI.

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

MISCELLANEOUS

- A. MASONRY WALLS: NOT BE 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 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 AND IN THE STARTING COURSE OF 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 PERCENT SOLID OR SOLIDLY-GROUTED UNITS FOR THE WIDTH OF THE TWO UNITS, CONTINUOUSLY ALLOW THE TRANSITION FOR EXAMPLE, AT BRICK LEDGES.

25. HORIZONTAL JOINT REINFORCEMENT: WALL TIES AND ANCHORS MANUFACTURERS: HORMAN & BARNARD, DUN-OR-WAL, INC.

A. HORIZONTAL JOINT REINFORCEMENT:

- 1. EYE AND PRITTLE TYPE RODS SPACED NOT MORE THAN 16 INCHES ON CENTER CLASS B2, NOT DOPPED GALVANIZED WITH 1/4 GAUGE SIZE ROD. 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 WITH 1/4 GAUGE SIZE ROD. SIZE 2 INCHES LESS THAN NOMINAL WALL THICKNESS.

A. CONCRETE BLOCK LATERAL SUPPORT ANCHORS: 18 INCH THICK X 1/4 INCH WIDE X 16 INCH LONG, MILD GALVANIZED WITH 1/4 GAUGE SIZE ROD.

B. WIRE MESH WALL TIES SHALL BE 16 GAUGE HOT-DIPPED GALVANIZED WIRE MESH WITH 12 INCH SPACING.

MASONRY VENEER ANCHORS:

- 1. GALV. ADJUSTABLE VENEER ANCHOR WITH TWO CADMIUM COATED SCREWS, 1/4 GAUGE ANCHOR AND 1/2 INCH DIAMETER STEEL TIE. PROVIDE ONE ANCHOR FOR EACH 24 SQUARE FEET OF WALL AREA. TIES SHALL BE SIZED TO EXTEND WITHIN EDGES OF FACE MASONRY. ANCHORS MUST BE FASTENED DIRECTLY TO METAL STUDS.

26. MISCELLANEOUS MASONRY ACCESSORIES

- A. NONMETALLIC EXPANSION JOINT STRIPS: PREMOLDED FILLER STRIPS COMPLYING WITH ASTM D 1026, TYPE 1 (GLOBE CELLS) CLASS A CELLULAR RUBBER AND RUBBER-LIKE MATERIALS WITH SPECIFIC RESISTANCE TO PETROLEUM BASE OILS), GRADE 1 (COMPRESSION DEFLECTION RANGE OF 24 PSI), COMPRESSIBLE UP TO 150 PERCENT, 60 WITH AND THICKNESS INDICATED, FORMULATED FROM THE FOLLOWING MATERIALS:

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

- 1. STYRENE-BUTADIENE RUBBER COMPOUND, ASTM D 2000, DESIGNATION 2AA-868.
2. BOND BREAKER STRIPS: ASPHALT SATURATED ORGANIC ROOFING FELT COMPLYING WITH ASTM D 1926, TYPE 1 (IN 15.5 GRAIN) FELT.

- A. WEEDPROOF PRODUCTS: USE RECTANGULAR PLASTIC WEEDPROOF TUBING, CLAMP BUTYRATE, 3/8" BY 1-1/2" BY 3/16" LONG. SPACE AS SHOWN BUT NOT LESS THAN 2'-0" ON CENTER.

27. THRU WALL FLASHING

- A. COPPER/BRASS FLASHING: 1/2 COPPER SHEET LAMINATED BETWEEN 2 SHEETS OF TIMBERING IMPREGATED CLEAR WAFER OR SATURATED FLAME-RATE.

- B. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS SPECIFIED, PROVIDE ONE OF THE FOLLOWING:
1. W/R GRADE 8 02, "FIRMA-BARRIER."
2. HICO PRODUCTS, INC., "COP-8 BOND SURF."
3. PHOENIX BUILDING PRODUCTS, INC., "DURLEX COP-FLASH."
4. YORK MANUFACTURING, INC., "COP-TEX DUFFLE."

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

28. MASONRY CLEANERS

- A. MASONRY CLEANER SOLUTION: SOLUTION OF TRISODIUM PHOSPHATE (10 GUP DRY MEASURE) AND LAUNDRY DETERGENT (10 GUP DRY MEASURE) DISSOLVED IN ONE GALLON OF WATER.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- 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 FIRING CONNECTIONS PRIOR TO INSTALLATION.
C. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

DIVISION 5 - METALS
DECORATIVE METAL RAILINGS SECTION 05 73 00

PART 1 - GENERAL

- 1. RELATED DOCUMENTS
A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

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 530.1/ASCE 5-16/ACI 216, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES."

3. CONSTRUCTION TOLERANCES

- A. CONSTRUCTION TOLERANCES: CONFORM TO PARAGRAPH 1.8.D.

4. DELIVERY, STORAGE, AND HANDLING

- A. DELIVER MASONRY MATERIALS TO PROJECT IN UNDAUNAGED CONDITION.

5. STORE AND HANDLE MASONRY UNITS OFF THE GROUND

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

C. STORE CEMENTITIOUS MATERIALS OFF THE GROUND

- A. STORE CEMENTITIOUS MATERIALS OFF THE GROUND, UNDER COVER, AND IN DRY LOCATIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, CONTAMINANTS, CHANGES, CONTAMINANTS, CORROSION, AND OTHER CAUSES. IF UNITS BECOME WET, DO NOT PLACE UNITS, UNITS ARE IN AN AIR-CURED CONDITION.

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

7. STORE MASONRY ACCESSORIES INCLUDING METAL ITEMS TO PREVENT CORROSION AND ACCUMULATION OF DIRT AND OILS.

14. PROJECT CONDITIONS

- A. PROTECTION OF MASONRY: DURING ERECTION, COVER TOPS OF WALLS, PROJECTIONS, AND BELLS WITH 1/2-INCH THICK SHEET PILE END OF EACH SECTION OF WORK PARTIALLY COMPLETED MAINTAINING WHEN CONSTRUCTION IS NOT IN PROGRESS.
1. EXTEND COVER A MINIMUM OF 6 INCHES DOWN BOTH SIDES AND HOLD COVER SECURELY IN PLACE.

B. STAIN PREVENTION

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

C. PROTECT SURFACES

- A. PROTECT SURFACES: PROTECT MASONRY SURFACES FROM SPATTER BY MEANS OF COVERINGS SPREAD ON GROUND AND OVER WALL SURFACES.

D. PROTECT SLITS, LEDGES, AND PROJECTIONS FROM MORTAR DROPPINGS.

E. PROTECT SURFACES OF WINDOWS AND DOORWAYS, AS WELL AS SIMILAR PRODUCTS THAT ARE PART OF THE MASONRY FRAME AND MASONRY SOLIDLY WITH MORTAR, UNLESS OTHERWISE NOTED.

F. COLD-WEATHER CONSTRUCTION: COMPLY WITH REFERENCED UNIT MASONRY STANDARD FOR COLD-WEATHER CONSTRUCTION AND THE FOLLOWING.

- 1. DO NOT LAY MASONRY UNITS THAT ARE FROZEN OR FROZEN.

2. REMOVE MASONRY DAMAGED BY FREEZING CONDITIONS.

3. MAINTAIN CONTRACTIONS: COMPLY WITH REFERENCED UNIT MASONRY STANDARD.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. CONCRETE BLOCK: ASTM C 90, MINIMUM NET AVERAGE COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS IS 2,800 PSI.
1. END BEAM AND CORE FILL: ASTM C 901, COARSE TYPE, MINIMUM COMPRESSIVE STRENGTH: 2,500 PSI.

<p>1. AVAILABLE PRODUCTS SUBJECT TO COMPLIANCE WITH REQUIREMENTS. PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:</p> <p>2. PRODUCTS SUBJECT TO COMPLIANCE WITH REQUIREMENTS. PROVIDE ONE OF THE FOLLOWING:</p> <p>A. POLYURETHANE VAPOR RETARDER: ASTM D4891, 8 MILS THICK WITH MAXIMUM PERM RATING OF 1 PERM. PROVIDE PRESSURE SENSITIVE TAPE OF TYPE RECOMMENDED BY VAPOR-RETARDER MANUFACTURER FOR SEALING JOINTS AND PENETRATIONS.</p> <p>2.4 PROTECTION</p> <p>A. GENERAL: PROTECT INSTALLATION AND VAPOR RETARDERS FROM DAMAGE DUE TO HARSH WEATHER EXPOSURE, PHYSICAL ABUSE, AND OTHER CAUSES. PROTECT TEMPORARY COVERINGS OR ENCLOSURES WHERE INSULATION WILL BE SUBJECT TO ABUSE AND CANNOT BE CONCEALED AND PROTECTED BY PERMANENT CONSTRUCTION IMMEDIATELY AFTER INSTALLATION.</p>	<p>2.3 VAPOR RETARDERS</p> <p>A. POLYETHYLENE VAPOR RETARDER: ASTM D4891, 8 MILS THICK WITH MAXIMUM PERM RATING OF 1 PERM. PROVIDE PRESSURE SENSITIVE TAPE OF TYPE RECOMMENDED BY VAPOR-RETARDER MANUFACTURER FOR SEALING JOINTS AND PENETRATIONS.</p> <p>2.4 PROTECTION</p> <p>A. GENERAL: PROTECT INSTALLATION AND VAPOR RETARDERS FROM DAMAGE DUE TO HARSH WEATHER EXPOSURE, PHYSICAL ABUSE, AND OTHER CAUSES. PROTECT TEMPORARY COVERINGS OR ENCLOSURES WHERE INSULATION WILL BE SUBJECT TO ABUSE AND CANNOT BE CONCEALED AND PROTECTED BY PERMANENT CONSTRUCTION IMMEDIATELY AFTER INSTALLATION.</p>
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EXTERIOR INSULATION AND SECTION 07 24 00 FINISH SYSTEMS

<p>2.5 EXTERIOR STANDING AND RUNNING TRIM</p> <p>A. PROVIDE TRIM PER THIS SECTION, UNLESS OTHERWISE INDICATED.</p> <p>B. SOFTWOOD LUMBER TRIM</p> <p>1. SPECIES AND GRADE: EASTERN WHITE PINE, AIA PREMIUM GRADE.</p> <p>2. MAXIMUM MOISTURE CONTENT: 15 PERCENT.</p> <p>3. FACE SURFACE: SURFACED (SMOOTH).</p> <p>4. MATERIAL SUITABLE TO RECEIVE TRANSPARENT FINISH.</p> <p>C. HARDWOOD LUMBER TRIM</p> <p>1. SPECIES AND GRADE: SELECT WHITE BIRCH, MIL CLEAR, AIA PREMIUM GRADE.</p> <p>2. MAXIMUM MOISTURE CONTENT: 9 PERCENT.</p> <p>3. FACE SURFACE: SURFACED (SMOOTH).</p> <p>4. MATERIAL SUITABLE TO RECEIVE TRANSPARENT FINISH.</p> <p>D. SCOTCH MOULDINGS W/MPMA HW/M 2, 6 GRADE WOOD MOULDINGS: MAKE PATTERNS INCLUDED IN W/MPMA HW/M 2.</p> <p>1. SPECIES AND GRADE: EASTERN WHITE PINE, AIA PREMIUM GRADE.</p> <p>2. MAXIMUM MOISTURE CONTENT: 15 PERCENT.</p> <p>3. MATERIAL SUITABLE TO RECEIVE TRANSPARENT FINISH.</p> <p>E. HARDWOOD MOULDINGS W/MPMA HW/M 2, 6 GRADE WOOD MOULDINGS: MAKE PATTERNS INCLUDED IN W/MPMA HW/M 2.</p> <p>1. SPECIES AND GRADE: SELECT WHITE BIRCH, MIL CLEAR, AIA PREMIUM GRADE.</p> <p>2. MAXIMUM MOISTURE CONTENT: 9 PERCENT.</p> <p>3. MATERIAL SUITABLE TO RECEIVE TRANSPARENT FINISH.</p>	<p>G. INSULATION THICKNESS</p> <p>1. MINIMUM EPS INSULATION THICKNESS IS 1 INCH (25 MM).</p> <p>2. MAXIMUM EPS INSULATION THICKNESS IS 12 INCHES (305 MM), EXCEPT AS NOTED BELOW FOR FIRE RESISTANCE RATED WALL ASSEMBLIES.</p> <p>H. FIRE PROTECTION</p> <p>1. DO NOT USE EPS FOAM PLASTIC IN EXCESS OF 12 INCHES (305 MM) THICK ON TYPES I, II, OR IV CONSTRUCTION UNLESS APPROVED BY THE CODE OFFICIAL.</p> <p>2. WHERE A FIRE RESISTANCE RATING IS REQUIRED BY THE CODE, THE EPS OVER A RATED CONCRETE OR CONCRETE MASONRY ASSEMBLY, LIMIT USE OVER RATED GRADE AND EXPOSURE (WOOD BASED SHEATHING - APA EPS IS CONSIDERED NOT TO BE DETRACT FROM THE FIRE RESISTANCE OF THE RATED ASSEMBLY.) MAXIMUM ALLOWABLE EPS THICKNESS: 4 INCHES (102 MM).</p> <p>3. REFER TO MANUFACTURERS TESTING OR APPLICABLE CODE COMPLIANCE REPORT FOR OTHER LIMITATIONS THAT MAY APPLY.</p> <p>1.5 PERFORMANCE REQUIREMENTS</p> <p>A. COMPLY WITH ASTM E 263 (PARANITRILE BARRIER) AND ASTM E 2386 (EPS).</p> <p>1.6 QUALITY ASSURANCE</p> <p>A. MANUFACTURER REQUIREMENTS</p> <p>1. MEMBER IN GOOD STANDING OF THE EPS INDUSTRY MEMBERS ASSOCIATION (EMA).</p> <p>2. ARMISTURE BARRIER AND EPS MANUFACTURER FOR A MINIMUM OF THIRTY (30) SITE MANTAIN APPROVAL LABORATORY. MCKOLUP SHALL COMPLY WITH:</p> <p>3. MANUFACTURING FACILITIES ISO 9001:2008 CERTIFIED QUALITY SYSTEM AND ISO 14001:2004 CERTIFIED ENVIRONMENTAL MANAGEMENT SYSTEM.</p> <p>B. CONTRACTOR REQUIREMENTS</p> <p>1. ENGAGED IN APPLICATION OF SIMILAR SYSTEMS FOR A MINIMUM OF THREE (3) YEARS.</p> <p>2. KNOWLEDGEABLE IN THE PROPER USE AND HANDLING OF STO MATERIALS AND THE PROPER EMBEDDING OF THE PROTECTIVE PROTECTIVE MATERIALS IN ARMISTURE BARRIER AND EPS APPLICATION, AND FAMILIAR WITH THE REQUIREMENTS OF THE SPECIFIED WORK.</p> <p>3. SUCCESSFUL COMPLETION OF MINIMUM OF THREE (3) PROJECTS OF SIMILAR SIZE AND COMPLEXITY TO THE SPECIFIED PROJECT.</p> <p>4. PROVIDE THE PROPER EMBEDDING, WORKMANSHIP AND SUPERVISION ON THE JOB SITE TO INSTALL THE SYSTEM IN COMPLIANCE WITH STOS PUBLISHED BEST PRACTICES AND THE RELEVANT PROJECT PLANS AND SPECIFICATIONS.</p> <p>C. INSULATION BOARD MANUFACTURER REQUIREMENTS</p> <p>1. EPS BOARD LISTED BY AN APPROVED AGENCY.</p> <p>2. EPS BOARD MANUFACTURED UNDER STO LICENSING AGREEMENT AND RECOGNIZED BY STO AS BEING CAPABLE OF PRODUCING EPS INSULATION BOARD TO MEET EFS REQUIREMENTS.</p> <p>3. EPS BOARD LABELED WITH THE INFORMATION REQUIRED BY STO, THE APPROVED LISTING AGENCY, AND THE APPLICABLE BUILDING CODE.</p> <p>D. MCKOLUP TESTING</p> <p>1. CONTRACT FULL-SCALE MOCK-UP OF TYPICAL ARMISTURE BARRIER AND EPS/STO WALL ASSEMBLY WITH SPECIFIED TOOLS AND MATERIALS AND TEST AIR AND WATER INTRUSION AND STRUCTURAL PERFORMANCE IN ACCORDANCE WITH ASTM E 263, ASTM E 531 AND ASTM E 330, RESPECTIVELY, THROUGH INDEPENDENT LABORATORY. MCKOLUP SHALL COMPLY WITH REQUIREMENTS OF PROJECT SPECIFICATIONS, WHERE MCKOLUP IS TESTED AT JOB SITE MAINTAIN APPROXIMATELY 1/4" (6.35 MM) SPACING WITH STOS PUBLISHED BEST PRACTICES AND THE RELEVANT PROJECT PLANS AND SPECIFICATIONS.</p> <p>E. INSPECTIONS</p> <p>1. PROVIDE INDEPENDENT THIRD PARTY INSPECTION WHERE REQUIRED BY CODE OR CONTRACT DOCUMENTS.</p> <p>2. CONDUCT INSPECTIONS IN ACCORDANCE WITH CODE REQUIREMENTS AND CONTRACT DOCUMENTS.</p> <p>F. DELIVERY, STORAGE AND HANDLING</p> <p>A. DELIVER ALL MATERIALS IN THEIR ORIGINAL SEALED CONTAINERS BEARING MANUFACTURER'S NAME AND IDENTIFICATION OF PRODUCT.</p> <p>B. PROTECT COATINGS (PAI PRODUCTS) FROM FREEZING AND TEMPERATURES IN EXCESS OF + F (8 C). STORE AND HANDLE IN ACCORDANCE WITH:</p> <p>C. PROTECT PORTLAND CEMENT BASED MATERIALS (PAI PRODUCTS) FROM MOISTURE AND HUMIDITY. STORE UNDER COVER OF THE GROUND IN A DRY LOCATION.</p> <p>1.8 PROJECT SITE CONDITIONS</p> <p>A. MAINTAIN AMBIENT AND SURFACE TEMPERATURES ABOVE 40 F (+ 4 C) DURING APPLICATION AND DRYING PERIOD. MINIMUM 24 HOURS AFTER FILLING OF ARMISTURE BARRIER AND EPS PRODUCTS.</p> <p>B. PROVIDE SUPPLEMENTARY HEAT FOR INSTALLATION IN TEMPERATURES LESS THAN 40 F (+ 4 C).</p> <p>C. PROVIDE PROTECTION OF SURROUNDING AREAS AND ADJACENT SURFACES FROM APPLICATION OF PRODUCTS.</p> <p>1.9 COORDINATION/SEQUENCING</p> <p>A. PROVIDE SITE GRADING SUCH THAT THE EPS TERMINATES ABOVE GRADE A MINIMUM OF 4 INCHES (100 MM) OR AS REQUIRED BY CODE.</p> <p>B. COORDINATE INSTALLATION OF FOUNDATION WATERPROOFING, ROOFING MEMBRANE, WINDOWS, DOORS AND OTHER WALL PENETRATIONS TO PROVIDE A CONTINUOUS CONNECTED AIR AND MOISTURE BARRIER.</p> <p>C. PROVIDE PROTECTION OF EXTERIOR OPENINGS BEFORE INSTALLING WINDOWS, DOORS, AND OTHER PENETRATIONS THROUGH THE WALL.</p> <p>D. INSTALL WINDOW AND DOOR HEAD FLASHING IMMEDIATELY AFTER WINDOWS AND DOORS ARE REELED.</p> <p>E. INSTALL DIVERTER FLASHINGS WHEREVER WATER CAN ENTER THE WALL ASSEMBLY TO DIRECT WATER TO THE EXTERIOR.</p> <p>F. INSTALL SPICES OR RIE RANS FROM ARMISTURE BARRIER OVER BACK LEG OF FLASHINGS, STARTER TRACKS, AND SIMILAR DETAILS TO FORM A SHIELD THAT DIRECTS INCIDENTIAL WATER TO THE EXTERIOR.</p> <p>G. INSTALL COPINGS AND SEALANT IMMEDIATELY AFTER INSTALLATION OF THE EPS WITH STOGUARD MESH TO PROTECT THE EPS AND EPS. THE SEALANT SHALL BE APPLIED AGAINST THE BASE COAT OR PRIMED BASE COAT SURFACE.</p> <p>H. STO GOLD FILL - READY MIXED COATING FOR TROWEL, OR HANKE 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 SEAL OVER BACK FLANGE OF STARTER TRACK, FLASHING, AND SIMILAR SHIP LAP DETAILS.</p> <p>I. SCHEDULE WORK SUCH THAT ARMISTURE BARRIER IS EXPOSED TO WEATHER NO LONGER THAN 90 DAYS OF STO GOLD COAT IS USED. 90 DAYS IF WEATHER IS USED. ATTACH PENETRATIONS THROUGH THE EPS TO STRUCTURAL SUPPORT AND PROVIDE WATER TIGHT SEAL AT PENETRATIONS.</p> <p>1.10 WARRANTY</p> <p>A. PROVIDE MANUFACTURERS STANDARD WARRANTY.</p> <p>2.1 MANUFACTURERS</p> <p>A. PROVIDE ARMISTURE BARRIER AND EPS COATINGS AND ACCESSORIES FROM SINGLE SOURCE MANUFACTURER OR APPROVED SUPPLIER.</p> <p>B. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS:</p> <p>1. STO CORP. - ARMISTURE BARRIER, EPS.</p> <p>2. PLASTIC COMPONENTS, INC. - EPS ACCESSORIES.</p> <p>2.2 ARMISTURE BARRIER</p> <p>REFER TO FLUID APPLIED MEMBRANE AND BARRIERS SECTION 07 27 20</p> <p>2.3 ADHESIVE</p> <p>A. STO TURBOSTUCK™ - ONE COMPONENT POLYURETHANE SPRAY FOAM ADHESIVE SUITABLE FOR USE ON EXTERIOR SURFACES.</p> <p>2.4 INSULATION BOARD</p> <p>A. STOPS EPS INSULATION BOARD LISTED, 1.8 LB/FT³ (16 KG/M³) EXPANDED POLYETHYLENE EPS INSULATION BOARD IN COMPLIANCE WITH ASTM E 263 AND ASTM E 339 (TYPE I) REQUIREMENTS AND LITERAL LABELS, AND FURNISHED IN ACCORDANCE WITH SECTION 1.6C.</p> <p>2.5 BASE COAT</p> <p>A. PORTLAND CEMENT BASE COAT</p> <p>1. STO BITS PLUS - FACTORY BLENDED ONE COMPONENT POLYMER MODIFIED PORTLAND CEMENT BASED HIGH BUILD BASE COAT ALSO USED AS A LEVELER FOR CONCRETE AND MASONRY SURFACES.</p> <p>2.6 REINFORCING MESH</p> <p>A. STANDARD MESH</p> <p>1. STO MESH - NOMINAL 4.5 (20x2) (15 G/M²), SYMMETRICAL, INTERLOCKED OPEN WEAVE GLASS FIBER FABRIC MADE WITH ALKALINE RESISTANT COATING FOR COMPATIBILITY WITH STO MATERIALS.</p> <p>2.7 PRIMER</p> <p>A. STORIME MIX - ACRYLIC BASED FINISHABLE PRIMER WITH SAND FILLER APPLICATION.</p> <p>2.8 FINISH COAT</p> <p>A. STOLITE LOTUSMAR - ACRYLIC BASED TEXTURED MARBLE FINISH WITH GRADED MARBLE AGGREGATE AND SELF-CLEANING PROPERTIES.</p> <p>2.9 JOX MIXED INGREDIENTS</p> <p>A. PORTLAND CEMENT AND POTABLE I.</p> <p>B. PORTLAND CEMENT - TYPE I, TYPE II, OR TYPE III IN COMPLIANCE WITH ASTM C 150.</p> <p>2.10 ACCESSORIES</p> <p>A. STARTER TRACK - RIGID PVC POLY(VINYL CHLORIDE) PLASTIC TRACK PAINT ON STEEL AS FURNISHED BY PLASTIC COMPONENTS, INC. 9051 90TH STREET, MAMM, IL 61878 (800 327-7077).</p> <p>B. CORNER BEAD STANDARD - ONE COMPONENT PVC POLY(VINYL CHLORIDE) ACCESSORY WITH INTEGRAL REINFORCING MESH FOR OUTSIDE CORNER REINFORCEMENT.</p> <p>C. STO DRIP EDGE - ONE COMPONENT PVC POLY(VINYL CHLORIDE) ACCESSORY WITH INTEGRAL REINFORCING MESH THAT CREATES A DRIP EDGE AND PLASTER FINISH.</p> <p>2.11 MIXING</p> <p>A. STO GOLD COAT - MIX WITH A CLEAN, RUST-FREE HIGH SPEED MIXER TO A UNIFORM CONSISTENCY.</p> <p>B. STO BITS PLUS - MIX RATIO WITH WATER: 5.65 QUARTS (5.74 L) OF WATER PER 47 POUNDS (21.3 KG) BAG OF STO BITS PLUS. POUR WATER INTO A CLEAN MIXING PAIL AND ADD TO STOS BITS PLUS TO A UNIFORM CONSISTENCY. MIX AT A LOW TO MODERATE APPROXIMATELY 5 MINUTES. ADJUST MIX NEEDED WITH ADDITIONAL STOS BITS PLUS AS REQUIRED TO OBTAIN A UNIFORM CONSISTENCY. KEEP MIX RATIO CONSTANT. DO NOT EXCEED MAXIMUM WATER AMOUNT IN MIX RATIO.</p> <p>C. STOLT LOTUSMAR - MIX WITH A CLEAN, RUST-FREE HIGH SPEED MIXER TO A UNIFORM CONSISTENCY. A SMALL AMOUNT OF WATER MAY BE ADDED TO ADJUST WORKABILITY OF THE MIXTURE TO A POINT WHERE THE MIXTURE IS EASY TO APPLY. DO NOT ADD EXCESS WATER TO THE MIXTURE. DO NOT ADD EXCESS WATER TO THE MIXTURE. DO NOT ADD EXCESS WATER TO THE MIXTURE. DO NOT ADD EXCESS WATER TO THE MIXTURE.</p>
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<p>2.6 SHEET MATERIALS</p> <p>A. PROVIDE SHEET MATERIAL PER THIS SECTION, UNLESS OTHERWISE INDICATED.</p> <p>B. INTERIOR SOFTWOOD PLYWOOD</p> <p>1. SPECIES AND GRADE: DOUGLAS FIR, AIA PREMIUM GRADE.</p> <p>2. FACE SURFACE: SURFACED (SMOOTH, PLYWOOD GRADED AND SANGED).</p> <p>C. EXTERIOR MEDIUM DENSITY OVERLAY PLYWOOD</p> <p>1. GRADE: PS-145 AIA PREMIUM VENEER GRADE.</p> <p>2. VENEER CORE.</p> <p>3. TYPE OF GLUE AS RECOMMENDED FOR APPLICATION.</p> <p>4. PAPER SATURATED WITH PHENOLIC RESIN SOLID FAIR PAPER SATURATED BASE ONE SIDE ONLY AND EQUAL TO TOBERBERG KOD OR PER SECTION 0909 (FAINTING).</p> <p>5. WOOD FILLER, OR GLUE, TINTED TO MATCH SURFACE FINISH COLOR.</p> <p>D. HARDWARE</p> <p>1. BMA #156 AS FOLLOWS: ALL HARDWARE TO BE AS SHOWN ON DRAWINGS. IF NOT SHOWN PROVIDE HARDWARE AS DIRECTED BY OWNER AND/OR AS REQUIRED FOR A COMPLETE INSTALLATION.</p> <p>E. FABRICATION</p> <p>1. FABRICATE TO AIA PREMIUM STANDARDS.</p> <p>2. SHOP ASSEMBLY WORK FOR DELIVERY TO SITE, PERMITTING PASSAGE THROUGH EXISTING OPENINGS.</p> <p>3. FIT INTERIOR EXPOSED SHEET MATERIAL EDGES WITH PLASTIC EDGING WHERE SHOWN NEVER LEAVE IN FINISHED EDGE EXPOSED TO WEAR.</p> <p>4. WHEN NECESSARY TO CUT AND FIT INTERIOR EXPOSED MATERIALS WITH AMPLE ALLOWANCE FOR CUTTING. PROVIDE TRIM FOR SCRUBING AND SITE CUTTING.</p> <p>F. SHOP FINISHING</p> <p>1. SAND WOOD SMOOTH AND SET EXPRESSED NAILS AND SCREWS.</p> <p>2. APPLY WOOD FINISH IN EXPOSED NAIL AND SCREW ENDITIONS.</p> <p>3. DRIT MITS TO RECEIVE TRANSPARENT FINISHES. USE WOOD FILLER WHICH MATCHES SURROUNDING SURFACES AND OF TYPES RECOMMENDED FOR APPLIED FINISHES.</p> <p>4. FINISH WORK IN ACCORDANCE WITH AIA AS SHOWN ON DRAWINGS AND AS DIRECTED BY OWNER.</p>	<p>1.1 SUMMARY</p> <p>A. PROVIDE AIR AND MOISTURE BARRIER, AND COMPATIBLE EFS FOR VERTICAL ABOVE AND EXTERIOR WALLS.</p> <p>B. RELATED SECTIONS:</p> <p>1. SECTION 05 00: SHEATHING</p> <p>2. SECTION 07 00: SHEET METAL FLASHING AND TRIM</p> <p>3. SECTION 11 00: METAL DOORS AND FRAMES</p> <p>4. SECTION 14 00: ALUMINUM ENTRANCES AND STOREFRONT WINDOWS</p> <p>1.2 SUBMITTALS</p> <p>A. MANUFACTURERS SPECIFICATIONS, DETAILS, INSTALLATION INSTRUCTIONS AND PRODUCT DATA.</p> <p>B. MANUFACTURERS CODE COMPLIANCE REPORT.</p> <p>C. MANUFACTURERS STANDARD WARRANTY.</p> <p>D. APPLICATIONS INDUSTRY TRAINING CREDENTIALS.</p> <p>E. SAMPLES FOR APPROVAL, AS DIRECTED BY ARCHITECT OR OWNER.</p> <p>F. SEALANT MANUFACTURERS CERTIFICATE OF COMPLIANCE WITH ASTM C 1382.</p> <p>G. PRIME AND SUBMIT PROJECT-SPECIFIC DETAILS (WHEN REQUIRED BY CONTRACT DOCUMENTS).</p> <p>1.3 REFERENCES</p> <p>A. ASTM STANDARDS:</p> <p>ASTM C 578 SPECIFICATION FOR PREFORMED, CELLULAR POLYSTYRENE THERMAL INSULATION.</p> <p>ASTM C 1360 TEST METHOD FOR DETERMINING TENSILE ADHESION PERFORMANCE OF SEALANTS WHEN USED IN EXTERIOR INSULATION AND FINISH SYSTEMS (EFS) JOINTS.</p> <p>ASTM E 84 TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.</p> <p>ASTM E 119 TEST METHOD FOR MEASURING THE TENSILE ADHESION PERFORMANCE OF EXTERIOR INSULATION AND FINISH SYSTEMS (EFS) GLAD WALL ASSEMBLIES.</p> <p>ASTM E 263 STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE SEPAR BARRIER ASSEMBLIES.</p> <p>ASTM E 283 STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE SEPAR BARRIER ASSEMBLIES.</p> <p>ASTM E 272 TEST METHOD FOR DETERMINING THE DRAINAGE EFFICIENCY OF EXTERIOR INSULATION AND FINISH SYSTEMS (EFS) GLAD WALL ASSEMBLIES.</p> <p>ASTM E 285 STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE SEPAR BARRIER ASSEMBLIES.</p> <p>NFPA 285 STANDARD METHOD OF TEST FOR THE EVALUATION OF FLAMMABILITY CHARACTERISTICS OF EXTERIOR WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS USING THE INTERMEDIATE CELLULOSIC TEST APPARATUS.</p> <p>D. OTHER REFERENCED DOCUMENTS</p> <p>1. AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS AATCC-127 WATER RESISTANCE HYDROSTATIC PRESSURE TEST.</p> <p>2. ICC-ES ESR-1203, STAGUARD WITH GOLD COAT, STOGUARD WITH EMERALD/COAT, AND STOGUARD VAPOR/SEAL WATER RESISTIVE BARRIERS AND STENOXY GUARD.</p> <p>3. ICC-ES ESR-174L, STORHEME CR.</p>
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DIVISION 7 - THERMAL & MOISTURE PROTECTION THERMAL INSULATION SECTION 07 21 00

<p>PART 1 - GENERAL</p> <p>1.1 RELATED DOCUMENTS</p> <p>A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.</p> <p>1.2 QUALITY ASSURANCE</p> <p>A. SINGLE SOURCE RESPONSIBILITY FOR INSULATION PRODUCTS. OBTAIN EACH TYPE OF BUILDING INSULATION FROM A SINGLE SOURCE WITH PROPERTIES TO PROVIDE CONSISTENT QUALITY IN APPLICABLE AND PHYSICAL REQUIREMENTS WITHOUT DELAYING PROGRESS OF THE WORK.</p> <p>1.3 DELIVERY, STORAGE AND HANDLING</p> <p>A. PROTECT INSULATION MATERIALS FROM PHYSICAL DAMAGE AND FROM DETEIORATION BY MOISTURE, SOILING, AND OTHER SOURCES. STORE INSIDE AND IN A DRY LOCATION. COMPLY WITH MANUFACTURERS RECOMMENDATIONS FOR HANDLING, STORAGE, AND PROTECTION DURING INSTALLATION.</p> <p>B. PROTECT PLASTIC INSULATION AS FOLLOWS: DO NOT EXPOSE TO SUNLIGHT, EXCEPT AGAINST CONTACT AT ALL TIMES. DO NOT REMOVE PLASTIC INSULATING MATERIALS TO EXPOSE SITE BEFORE OR DURING INSTALLATION. COMPLETE INSTALLATION AND CONCEALMENT OF PLASTIC INSULATION AS RAPIDLY AS POSSIBLE IN EACH AREA OF CONSTRUCTION.</p> <p>2.1 PRODUCTS</p> <p>2.1.1 MANUFACTURERS</p> <p>A. EXTRUDDED POLYSTYRENE BOARD INSULATION: OWENS CORNING OR DOW CHEMICAL COMPANY OR OVERSFO FORM PRODUCTS.</p> <p>B. BUTT INSULATION: OWENS CORNING OR JOHNS MANVILLE INTERNATIONAL, INC. OR CERTAINTED PRODUCTS CORPORATION.</p> <p>2.2 INSULATING MATERIALS</p> <p>A. GENERAL: PROVIDE INSULATING MATERIALS AS SCHEDULED IN THE DRAWINGS, THAT COMPLY WITH REQUIREMENTS AND WITH REFERENCED STANDARDS, PREFORMED INTER. SEES TO FIT APPLICATIONS INDICATED. SELECTED FROM MANUFACTURERS STANDARD THICKNESS, WIDTHS AND LENGTHS.</p> <p>B. EXTRUDDED POLYSTYRENE BOARD INSULATION: RIGID, CELLULAR POLYSTYRENE THERMAL INSULATION WITH CLOSED CELLS AND INTERIOR HONEYCOMB STRUCTURE FORMED BY THE EXPANSION OF POLYSTYRENE BEASE RESIN IN AN EXTRUSION PROCESS TO COMPLY WITH ASTM C 578 FOR TYPE INDICATED, WITH STAIR AIDS R-VALUES OF 5.4 AND 6.1 AT 2 AND 75 DEG OF (0.4 AND 23.0 DEG C) RESPECTIVELY, AND TYPE IV, 1.6 PCF DENSITY BLENDED OVERLAP METHOD. SURFACE BURNING CHARACTERISTICS: MAXIMUM FLAME SPREAD AND SMOKE DEVELOPMENT VALUES OF 75 AND 450, RESPECTIVELY. FOR EXTRUSION FLAME SPREAD SHALL NOT EXCEED 25.</p> <p>C. BUTT INSULATION: GLASS FIBER BLANKET TYPE INSULATION: TYPE B FOLDS/ARMY LAMINATE FACED, CLASS A, ASTM C961 AND FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPMENT OF 50 OR LESS. MANUFACTURERS STANDARD LENGTHS AND WIDTHS REQUIRED TO COORDINATE WITH SPACES INSULATED.</p> <p>D. MINERAL FIBER PRESTRESSING INSULATION: UNITED STATES OYSPAM CO. "THERMAPER SAFING INSULATION" OR APPROVED EQUAL, TYPE 1 SAFING INSULATION. MANUFACTURERS STANDARD LENGTHS, WIDTHS AND THICKNESS. PROVIDE MANUFACTURERS STANDARD IMPALPING STYLE GALVANIZED STEEL SAFING INSULATION CUPS AND BRACKETS. MATERIALS SHALL BE RATED NON-COMBUSTIBLE AS DEFINED BY NFPA WHEN TESTED IN ACCORDANCE WITH ASTM E 839.</p>	<p>1.4 DESIGN REQUIREMENTS</p> <p>A. WIND LOAD</p> <p>1. DESIGN FOR MAXIMUM ALLOWABLE SYSTEM DEFLECTION, NORMAL TO THE PLANE OF THE WALL, OF 1/400.</p> <p>2. DESIGN FOR WIND LOAD IN CONFORMANCE WITH CODE REQUIREMENTS.</p> <p>3. MAXIMUM WIND LOAD RESISTANCE - 143 PSF. INSULATION SHALL PROVIDE STRUCTURAL SUPPORTS AND SHEATHING/SHEATHING ATTACHMENT ARE ADEQUATE TO RESIST THESE PRESSURES.</p> <p>B. MOISTURE CONTROL</p> <p>1. PREVENT THE ACCUMULATION OF WATER BEHIND THE EPS OR INTO THE WALL ASSEMBLY, EITHER BY CONDENSATION OR LEAKAGE THROUGH THE WALL CONSTRUCTION, IN THE DESIGN AND INSTALLING OF THE WALL ASSEMBLY.</p> <p>2. 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, BEAM IN WINDOW AND DOOR SILL, A ROOF-WALL INTERSECTIONS, DECKS, ADJUSTMENTS OF LOWER WALLS WITH HIGHER WALLS, ABOVE PROJECTING FEATURES, AT FLOOR LINES, AND AT THE BASE OF THE WALL ASSEMBLY.</p> <p>3. 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.</p> <p>4. VAPOR DIFFUSION AND CONDENSATION: PERFORM A DEW POINT ANALYSIS AND/OR DYNAMIC HYGTRO THERMAL 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.</p> <p>C. IMPACT RESISTANCE</p> <p>1. PROVIDE LAYERS OF STO MESH TO A MINIMUM HEIGHT OF 2'-0" ABOVE GRADE AT EXTERIOR PERIMETER.</p> <p>D. JOINTS</p> <p>1. PROVIDE MINIMUM 3/8 INCH (9.5 MM) WIDE JOINTS IN THE EPS WHERE THEY EXIST IN THE SUBSTRATE OR SUPPORTING CONSTRUCTION, WHERE THE CLADDING JOINTS DISRUPT THE CONSTRUCTION OF THE WALL ASSEMBLY AT CHANGES IN BUILDING HEIGHT, AT EXPANSION, CONTRACTION, AND GOLD JOINTS TO BE PLACED ALONG THESE BOTTOM SURFACES. INCREASE JOINT SIZE FOR WARMER CLIMATES TO PREVENT ACCUMULATION OF CONDENSATION AND WATER ON SURFACE. WHERE TRANSPIRABLE OR PERMEABLE SURFACES ARE INVOLVED, PERIODIC INSPECTIONS AND INCREASED MAINTENANCE MAY BE REQUIRED TO MAINTAIN SURFACE INTEGRITY OF THE EPS FINISH ON WEATHER EXPOSED SURFACES. LIMIT PROJECTING FEATURES TO EASILY ACCESSIBLE AREAS AND LIMIT TOTAL AREA TO FACILITATE AND MINIMIZE MAINTENANCE. REFER TO STO DETAIL.</p> <p>2. DO NOT USE THE EPS ON WEATHER EXPOSED PROJECTING FEATURES, COLLING OR OTHER PROJECTING FEATURES UNLESS SUPPORTED BY BRACKETS OR OTHER STRUCTURAL SUPPORT AND PROTECTED WITH METAL COPING OR FLASHING. REFER TO STO DETAIL 10.61.</p> <p>E. GRADE CONDITION</p> <p>1. PROVIDE MINIMUM 6 INCH (152 MM) CLEARANCE ABOVE GRADE OR AS REQUIRED BY CODE.</p> <p>F. TRIM: PROJECTING ARCHITECTURAL FEATURES AND REVEALS</p> <p>1. ALL TRIM AND PROJECTING ARCHITECTURAL FEATURES MUST HAVE A MINIMUM 1/2" (12.7) SLOPE ALONG THEIR TOP SURFACE. ALL REVEALS MUST HAVE MINIMUM 1/4" (6.35) MIN INSULATION THICKNESS AT THE BOTTOM OF THE REVEAL. ALL HORIZONTAL REVEALS MUST HAVE A MINIMUM (2 1/2") SLOPE ALONG THEIR BOTTOM SURFACES. INCREASE SLOPE FOR WARMER CLIMATES TO PREVENT ACCUMULATION OF CONDENSATION AND WATER ON SURFACE. WHERE TRANSPIRABLE OR PERMEABLE SURFACES ARE INVOLVED, PERIODIC INSPECTIONS AND INCREASED MAINTENANCE MAY BE REQUIRED TO MAINTAIN SURFACE INTEGRITY OF THE EPS FINISH ON WEATHER EXPOSED SURFACES. LIMIT PROJECTING FEATURES TO EASILY ACCESSIBLE AREAS AND LIMIT TOTAL AREA TO FACILITATE AND MINIMIZE MAINTENANCE. REFER TO STO DETAIL.</p> <p>2. DO NOT USE THE EPS ON WEATHER EXPOSED PROJECTING FEATURES, COLLING OR OTHER PROJECTING FEATURES UNLESS SUPPORTED BY BRACKETS OR OTHER STRUCTURAL SUPPORT AND PROTECTED WITH METAL COPING OR FLASHING. REFER TO STO DETAIL 10.61.</p>
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<p>3.1 ACCEPTABLE INSTALLERS</p> <p>A. PREQUALIFY UNDER QUALITY ASSURANCE REQUIREMENTS OF THIS SPECIFICATION (SECTION 1.0 B).</p> <p>3.2 EXAMINATION</p> <p>A. INSPECT SHEATHING APPLICATION FOR COMPLIANCE WITH APPLICABLE REQUIREMENT AND INSTALLATION IN CONFORMANCE WITH SPECIFICATION AND MANUFACTURER REQUIREMENTS.</p> <p>1. GLASS MAT FACED GYPSUM SHEATHING COMPLIANT WITH ASTM C 1177</p> <p>2. EXTERIOR GRADE AND EXPOSURE (WOOD BASED SHEATHING - APA EPS IS CONSIDERED NOT TO BE DETRACT FROM THE FIRE RESISTANCE OF THE RATED ASSEMBLY.) MAXIMUM ALLOWABLE EPS THICKNESS: 4 INCHES (102 MM).</p> <p>3. CEMENTITIOUS SHEATHING - CONSULT MANUFACTURER</p> <p>4. ATTACHMENT INTO STRUCTURAL SUPPORT WITH ADDING SHEETS ADULTERATED GYPSUM SHEATHING AND FASTENERS AT DESIGN SPACING TO RESIST DESIGN WIND PRESSURES AS DETERMINED BY DESIGN PROFESSIONAL.</p> <p>5. FASTENERS SEATED FLUSH WITH SHEATHING SURFACE AND NOT OVER DRIVEN.</p> <p>6. REPORT DEVIATIONS FROM THE REQUIREMENTS OF PROJECT SPECIFICATIONS OR OTHER CONDITIONS THAT MOST ADVERSELY AFFECT THE ARMISTURE BARRIER AND THE INTEGRATION TO THE GENERAL CONTRACTOR. DO NOT START WORK UNTIL DEVIATIONS ARE CORRECTED.</p> <p>3.3 SURFACE PREPARATION</p> <p>A. REMOVE SURFACE CONTAMINANTS GYPSUM SHEATHING REPAIR CRACKS, SPALLS OR DAMAGE IN CONCRETE AND CONCRETE MASONRY SURFACES AND LEVEL CONCRETE AND MASONRY SURFACES TO COMPLY WITH REQUIRED TOLERANCES.</p> <p>C. APPLY CONDITIONER (CONSULT STO) BY SPRAY OR ROLLER TO CHALKING OR EXCESSIVELY ABSORBENT SURFACES OR PRESSURE WASH TO REMOVE SURFACE CHALKING.</p> <p>D. REMOVE OVERSTAINS THAT ARE NOT ANCHORED INTO SUPPORTING CONSTRUCTION AND SEAL HOLES WITH AIR BARRIER MATERIALS.</p> <p>E. SEAL OVERSTAIN FASTENERS WITH AIR BARRIER MATERIAL AND INSTALL ADJUSTABLE FASTENERS AS NEEDED TO COMPLY WITH FASTENER SPACING REQUIREMENTS OF THE SPECIFIED WORK.</p> <p>F. FILL LARGE GAPS BETWEEN SHEATHING OR VOIDS ABOVE PIER, CONDUIT, SCUTTERS AND SIMILAR MATERIALS WITH STOGUARD MESH AND SMALLER WITH SURFACE REPAIR TO STO DETAILS.</p> <p>G. REPLACE HEAVY-DAMAGED SHEATHING AND REPAIR OR REPLACE DAMAGED OR CRACKED SHEATHING.</p> <p>3.4 INSTALLATION</p> <p>A. TRANSITION DETAILING</p> <p>1. DETAIL TRANSITION AREAS WITH STO PARAPHONG OR STOGUARD TRANSITION MEMBRANE TO PROVIDE A CONTINUOUS AIR TIGHT MEMBRANE. FOR ILLUSTRATIONS OF INSTALLATION, REFER TO STO GUIDE DETAILS AND STO PARAPHONG INSTALLATION GUIDE FOR STOGUARD TRANSITION MEMBRANE INSTALLATION GUIDE (WWW.STOGUARD.COM).</p> <p>B. ROUGH OPENING</p> <p>1. STO GOLD FILL WITH STOGUARD MESH: APPLY 8 INCH (203 MM) WIDE STOGUARD MESH AT ROUGH OPENING. APPLY 1/4" (6.35) GOLD FILL BY SPRAY OR TROWEL OVER THE MESH AND SPREAD TO TROWEL TO CREATE A SMOOTH SURFACE THAT COMPLETELY COVERS THE MESH REFER TO STO DETAIL 20.20.</p> <p>C. SHEATHING JOINT TREATMENT</p> <p>1. STO GOLD FILL WITH STOGUARD MESH: PLACE 4 INCH (102 MM) WIDE MESH CENTERED AND TOLDED AT INSIDE AND OUTSIDE CORNERS. IMMEDIATELY APPLY STO GOLD FILL BY SPRAY OR TROWEL AND SPREAD WITH A TROWEL TO CREATE A SMOOTH SURFACE THAT COMPLETELY COVERS THE MESH.</p> <p>2. ARMISTURE BARRIER COATING INSTALLATION</p> <p>1. PAINTWOOD AND OTHER SHEATHING TYPE WATERPROOF COATING BY SPRAY OR ROLLER OVER SHEATHING SURFACE, INCLUDING THE TRIM AND AT CORNERS OF WINDOWS, DOORS, AND ALL OTHER WALL PENETRATIONS THROUGH THE WALL ASSEMBLY, AND IMMEDIATELY TROWEL TO A UNIFORM THICKNESS OF APPROXIMATELY 1/8 INCH (3 MM). IMMEDIATELY APPLY STO GOLD FILL BY SPRAY OR TROWEL AND SPREAD WITH A TROWEL TO CREATE A SMOOTH SURFACE THAT COMPLETELY COVERS THE MESH.</p> <p>2. COORDINATE INSTALLATION OF CONNECTING AIR BARRIER COMPONENTS WITH OTHER TRADES TO PROVIDE A CONTINUOUS AIR TIGHT MEMBRANE.</p> <p>3. COORDINATE INSTALLATION OF FLASHING AND OTHER MOISTURE PROTECTION COMPONENTS WITH OTHER TRADES TO ACHIEVE COMPLETE OUTSIDE PROTECTION SUCH THAT WATER IS DIRECTED AWAY FROM THE EXTERIOR, NOT INTO THE WALL ASSEMBLY, AND DRAINED TO THE EXTERIOR AT SOURCE OF LEAKS. WINDOW AND DOOR HEAD FLASHING PENETRATIONS THROUGH THE WALL ASSEMBLY.</p> <p>3. SPOKE-HEAD FLASHINGS ABOVE WINDOWS, DOORS, FLOOR LINE, AND OTHER WALL PENETRATIONS THROUGH THE WALL ASSEMBLY. USE STOGUARD DETAIL COMPONENT TO ACHIEVE SMOOTH LAP OF THE ARMISTURE BARRIER SUCH THAT WATER IS DIRECTED TO THE EXTERIOR.</p> <p>3.4.2 EPS INSTALLATION</p> <p>A. STARTER TRACK</p> <p>1. STRIKE A LEVEL LINE AT THE BASE OF THE WALL TO MARK WHERE THE TOP OF THE STARTER TRACK TERMINATES.</p> <p>2. ATTACH THE STARTER TRACK EVEN WITH THE LINE INTO STRUCTURAL SUPPORTS WITH THE PROPER FASTENER, TYPE 5-2 CORROSION RESISTANT SCREWS PER STO DETAIL, FRAMING WITH 1/2" (12.7) DIA. CORROSION RESISTANT CONCRETE OR MASONRY SCREWS WITH MINIMUM 1 INCH (25 MM) PENETRATION FOR CONCRETE OR DIAL. ATTACH BETWEEN DRYCLETS INCIDENTIAL WATER TO THE EXTERIOR.</p> <p>3. THE WALL SURFACE AT THE ATTACH AT MAXIMUM 1/8 INCH (3.18 MM) ON CENTER. FOR FRAMING FOR SOLID WOOD SHEATHING OR CONCRETE/MASONRY SURFACES, ATTACH DIRECTLY AT 12 INCHES (305 MM) ON CENTER. MAXIMUM.</p> <p>3.5 BUTT SECTIONS OF STARTER TRACK TOGETHER. MITER CUT OUTSIDE CORNERS AND ABOUT SNIP FRONT FLANGE OF ONE INSIDE CORNER PICE TO ALLOW EPS INSULATION BOARD TO BE APPLIED AND DRYING TIME, NOT OR ABOUT.</p> <p>4. POLYURETHANE SPRAY FOAM ADHESIVE (STO TURBOSTUCK) APPLY ADHESIVE TO THE BACK OF THE INSULATION BOARD WITH THE DISPENSING PISTOL, APPROXIMATELY 1/4 INCH (19 MM) FROM EDGE. APPLY 3 ADDITIONAL REBONS SPACED EQUALLY AT NO CORNER. THE MESH MUST BE EMBEDDED (177 MM) AWAY BETWEEN THE END REBONS. APPLY UNIFORM REBONS OF ADHESIVE TO THE BACK OF THE INSULATION BOARD. THE BOARD SHOULD THEN WHEN BOARDS ARE PLACED ON THE WALL, THE REBONS WILL BE VERTICAL. APPLY UNIFORM REBONS OF ADHESIVE TO THE BACK OF THE INSULATION BOARD WHICH WILL EXPAND TO 1/4 - 1/2 INCH (19 - 25 MM).</p> <p>5. KEEP ADHESIVE 1/4 INCH (6.35 MM) SHORT OF BOARD EDGES. ADHESIVE UNIFORMLY TO REBONS OF ADHESIVE DO NOT COVERAGE. ADD ADHESIVE TO "SOBB" AND BECOME "TACKY" BEFORE PLACING BOARDS ON WALL. ADHESIVE WILL LOOK SMOOTH, NOT AGGREG, WHEN READY TO APPLY TO WALL SURFACE. PLACE BOARDS WHILE ADHESIVE IS "TACKY" AND BEFORE ADHESIVE DRIES.</p> <p>4. INITIAL STARTER TRACK AT OTHER EPS TERMINATIONS AS DESIGNATED ON DETAIL DRAWINGS. ABOVE ROOF ALONG ROOFLINE, ABOVE END OF WALLS, AND BEHIND WINDOW SILLS WITH CONCEALED FLASHING REFER TO STO DETAIL 10.61.</p> <p>5. DETAIL SPICE STRIPS FOR STARTER TRACK, FLASHING AT FLOOR LINES, HEAD OF WINDOWS AND DOORS.</p> <p>6. STARTER TRACK: WINDOW/DOOR HEAD FLASHING, FLOOR LINE FLASHING, AND ROOF/SIDE WALL STEP FLASHING. INSTALL MINIMUM 4 INCH (100 MM) WIDE DETAIL COMPONENT OVER BACK FLANGE OF STARTER TRACK AND OVER FLOOR LINE FLASHING, HEAD FLASHINGS, AND ROOF/SIDE WALL STEP FLASHING. CENTER THE DETAIL COMPONENT 50% SPANNS EVENLY BETWEEN THE BACKS OF FLASHING OR ACCESSORY AND THE COATED SHEATHING. MAKE A SMOOTH TRANSITION TO THE COATED SHEATHING WITH A TROWEL, KNEE, OR OTHER TOOL. THE DETAIL COMPONENT MATERIAL BEING USED: WHEN STO GOLD FILL WITH STOGUARD MESH IN THE DETAIL COMPONENT AREA, APPLY WATERPROOF OF THE WATERPROOF COATING OVER THE DETAIL AREA, DO NOT LEAVE DETAIL COMPONENTS EXPOSED FOR MORE THAN 30 DAYS.</p> <p>C. BACKWRAPPING</p> <p>1. APPLY A STRIP OF DETAIL MESH TO THE ARMISTURE BARRIER AT ALL SYSTEM TERMINATIONS (WINDOWS, DOORS, EXPANSION JOINTS, ETC.) EXCEPT WHERE THE STARTER TRACK IS INSTALLED. THE MESH MUST BE WIDE ENOUGH TO ADHERE APPROXIMATELY 4 INCHES (100 MM) OF MESH INTO THE WALL. BE ABLE TO WRAP AROUND THE INSULATION BOARD EDGE AND COVER A MINIMUM OF 2 1/2 INCHES (64 MM) ON THE OUTSIDE SURFACE OF THE INSULATION BOARD. ATTACH MESH STRIPS TO THE ARMISTURE BARRIER AND ALLOW THEM TO DANGLE UNTIL THE BACKWRAPPING PROCEDURE IS COMPLETED (PARAGRAPH 3.6 (5)).</p> <p>2. APPLY CORNER BEAD STANDARD - ONE COMPONENT PVC POLY(VINYL CHLORIDE) ACCESSORY WITH INTEGRAL REINFORCING MESH FOR OUTSIDE CORNER REINFORCEMENT.</p> <p>3. STO DRIP EDGE - ONE COMPONENT PVC POLY(VINYL CHLORIDE) ACCESSORY WITH INTEGRAL REINFORCING MESH THAT CREATES A DRIP EDGE AND PLASTER FINISH.</p> <p>2.11 MIXING</p> <p>A. STO GOLD COAT - MIX WITH A CLEAN, RUST-FREE HIGH SPEED MIXER TO A UNIFORM CONSISTENCY.</p> <p>B. STO BITS PLUS - MIX RATIO WITH WATER: 5.65 QUARTS (5.74 L) OF WATER PER 47 POUNDS (21.3 KG) BAG OF STO BITS PLUS. POUR WATER INTO A CLEAN MIXING PAIL AND ADD TO STOS BITS PLUS TO A UNIFORM CONSISTENCY. MIX AT A LOW TO MODERATE APPROXIMATELY 5 MINUTES. ADJUST MIX NEEDED WITH ADDITIONAL STOS BITS PLUS AS REQUIRED TO OBTAIN A UNIFORM CONSISTENCY. KEEP MIX RATIO CONSTANT. DO NOT EXCEED MAXIMUM WATER AMOUNT IN MIX RATIO.</p> <p>C. STOLT LOTUSMAR - MIX WITH A CLEAN, RUST-FREE HIGH SPEED MIXER TO A UNIFORM CONSISTENCY. A SMALL AMOUNT OF WATER MAY BE ADDED TO ADJUST WORKABILITY OF THE MIXTURE TO A POINT WHERE THE MIXTURE IS EASY TO APPLY. DO NOT ADD EXCESS WATER TO THE MIXTURE. DO NOT ADD EXCESS WATER TO THE MIXTURE. DO NOT ADD EXCESS WATER TO THE MIXTURE.</p> <p>D. MIX ONLY AS MUCH MATERIAL AS CAN BE READY TO BE USED WITHIN THE PERIOD OF THE INSULATION BOARD'S CURING TIME. DO NOT ADD EXCESS WATER TO THE MIXTURE. DO NOT ADD EXCESS WATER TO THE MIXTURE. DO NOT ADD EXCESS WATER TO THE MIXTURE.</p>	<p>E. SLUVERING AND RASING OF INSULATION BOARD SURFACE</p> <p>1. MAKE SURE INSULATION BOARDS ARE FULLY ADHERED TO THE SUBSTRATE BEFORE PROCEEDING TO STEPS 1.1-4 AND 2.</p> <p>2. FULLY OPEN JOINTS IN THE INSULATION BOARD LAYER WITH SLIVERS OF INSULATION OR THE SPRAY FOAM ADHESIVE.</p> <p>3. RASP THE INSULATION BOARD SURFACE TO ACHIEVE A SMOOTH, EVEN SURFACE AND TO REMOVE ANY ULTRAVIOLET RAY DRAWINGS.</p> <p>F. TRIM REVEALS AND PROJECTING ARCHITECTURAL FEATURES</p> <p>1. ATTACH FEATURES AND TRIM WHERE DESIGNATED ON DRAWINGS WITH ADHESIVE TO A BASE LAYER OF INSULATION BOARD OR TO THE COATED SHEATHING SURFACE. FILL ANY GAPS BETWEEN THE TRIM AND BASE LAYER OF INSULATION WITH SPRAY FOAM ADHESIVE AND RASP FLUSH WITH THE TRIM SURFACE. SLOPE THE TOP SURFACE OF ALL TRIM TO A MINIMUM 1/2" (12.7) AND THE BOTTOM OF ALL HORIZONTAL REVEALS MINIMUM 1/2" (12.7).</p> <p>2. CUT REVEALS/ASTHETIC GROOVES WITH A HOTANNE ROUTER OR PROTECTIVE TOOL. ALLOW LOCATIONS TO REMAIN ON DRAWINGS.</p> <p>3. CUT REVEALS/ASTHETIC GROOVES MINIMUM 3 INCHES (75 MM) FROM INSULATION BOARD JOINTS.</p> <p>4. DO NOT LOCATE REVEALS/ASTHETIC GROOVES AT HIGH STRESS AREAS.</p> <p>5. ENSURE MINIMUM 3/8 INCH (9.5 MM) THICKNESS OF INSULATION BOARD AT THE BOTTOM OF THE REVEALS/ASTHETIC GROOVES.</p> <p>G. COMPLETION OF BACKWRAPPING</p> <p>1. COMPLETE THE BACKWRAPPING PROCEDURE BY APPLYING BASE COAT TO EXPOSED EDGES OF INSULATION BOARD AND APPROXIMATELY 4 INCHES (102 MM) INTO THE FACE OF THE INSULATION BOARD. PULL MESH TIGHT AROUND THE BOARD AND EMBED IT INTO THE BASE COAT. APPLY STOGUARD MESH TROWEL. USE A CORNER TROWEL FOR CLEAN, STRAIGHT LINES. SMOOTH ANY WRINKLES OR GAPS IN THE MESH.</p> <p>H. ACCESSORY INSTALLATION</p> <p>1. CORNER BEAD: CUT THE CORNER BEAD ACCESSORY TO PROPER LENGTH AS NEEDED. USE FULL PRESSURE WHERE POSSIBLE AND AVOID USING SHORT FILLER PIECES. OFFSET ACCESSORY BUTT JOINTS FROM SUBSTRATE JOINTS. APPLY BASE COAT WITH A STAINLESS STEEL TROWEL TO AN APPROXIMATE THICKNESS OF 1/8 INCH (3 MM) TO THE OUTSIDE CORNER AREA THAT WILL RECEIVE THE ACCESSORY. IMMEDIATELY PLACE THE ACCESSORY DIRECTLY ONTO THE DETAIL COMPONENT MATERIAL. DO NOT ADJUST OR REWORK THE ACCESSORY INTO PLACE. A CORNER TROWEL IS BEST FOR THIS PURPOSE. PRESSURE AND COMPLETELY COVER THE MESH AND ADHESIVE FROM THE CORNER TO THE EDGE OF THE MESH SO THAT MESH AND PIVC COLOR IS VISIBLE. AVOID EXCESS BUILD-UP OF BASE COAT AND FEATHER ALONG THE REVEAL EDGES. ADJUST SEPARATE RECESSED BEADING TO PIVC AND OVERLAP THE MESH 7/16" FROM ONE PICE INTO THE NEXT PICE. FULLY EMBED THE MESH AND MESH 7/16" IN BASE COAT MATERIAL WHEN INSTALLING FIELD MESH REINFORCEMENT OVERLAP ACCESSORY MESH AND PIVC REMOVE ANY EXCESS BASE COAT FROM THE CORNER.</p> <p>2. DRIP EDGE: INSTALL THE DRIP EDGE ACCESSORY PRIOR TO APPLICATION OF FIELD MESH (PARAGRAPH 3.4.2 BELOW). INSTALL WITH ARROW ON MESH POINTING UP. CUT THE ACCESSORY TO PROPER LENGTH WITH NEEDLE. USE FULL PRESSURE WHERE POSSIBLE AND AVOID USING SHORT FILLER PIECES. OFFSET ACCESSORY BUTT JOINTS FROM SUBSTRATE JOINTS. APPLY BASE COAT WITH A STAINLESS STEEL TROWEL TO AN APPROXIMATE THICKNESS OF 1/8 INCH (3 MM) TO THE OUTSIDE CORNER AREA THAT WILL RECEIVE THE ACCESSORY. IMMEDIATELY PLACE THE ACCESSORY DIRECTLY ONTO THE DETAIL COMPONENT MATERIAL AND PRESS INTO PLACE. DO NOT SLIDE INTO PLACE, EMBED AND COMPLETELY COVER MESH AND ADHESIVE FROM THE CORNER TO THE EDGE OF THE MESH SO THAT MESH AND PIVC COLOR IS VISIBLE. AVOID EXCESS BUILD-UP OF BASE COAT AND FEATHER ALONG THE REVEAL EDGES. ADJUST SEPARATE RECESSED BEADING TO PIVC AND OVERLAP THE MESH 7/16" FROM ONE PICE INTO THE NEXT PICE. FULLY EMBED THE MESH AND MESH 7/16" IN BASE COAT MATERIAL WHEN INSTALLING FIELD MESH REINFORCEMENT OVERLAP ACCESSORY MESH AND PIVC REMOVE ANY EXCESS BASE COAT FROM THE CORNER.</p> <p>I. BASE COAT AND REINFORCING MESH APPLICATION</p> <p>1. ENSURE THE INSULATION BOARD IS FIRMLY ADHERED AND FREE OF SURFACE CONTAMINATION OR DEGRADATION AND IS THOROUGHLY DRY BEFORE COMMENCING THE BASE COAT APPLICATION.</p> <p>2. APPLY MINIMUM 8/17 INCH (225X300 MM) DIAGONAL STRIPS OF DETAIL MESH AT CORNERS OF WINDOWS, DOORS, AND ALL OTHER WALL PENETRATIONS THROUGH THE WALL ASSEMBLY. THE STRIPS IN WET BASE COAT AND TROWEL FROM THE CENTER TO THE EDGES OF THE MESH TO AVOID WRINKLES.</p> <p>3. APPLY DETAIL MESH AT TRIM REVEALS AND PROJECTING ARCHITECTURAL FEATURES. EMBED THE MESH IN THE WET BASE COAT TROWEL FROM THE BASE OF REVEALS TO THE EDGES OF THE MESH.</p> <p>4. ULTRA HIGH IMPACT MESH APPLICATION (RECOMMENDED TO A MINIMUM HEIGHT OF 8 FT) IS RECOMMENDED FOR ALL AREAS ACCESSIBLE TO PEDESTRIAN TRAFFIC AND OTHER AREA EXPOSED TO ABNORMAL STRESS OR IMPACT, AND WHERE INDICATED ON CONTRACT DOCUMENTS.</p> <p>5. APPLY BASE COAT OVER THE INSULATION BOARD WITH A STAINLESS STEEL TROWEL TO A UNIFORM THICKNESS OF APPROXIMATELY 1/8 INCH (3 MM). IMMEDIATELY TROWEL TO A UNIFORM THICKNESS OF APPROXIMATELY 1/8 INCH (3 MM) AND IMMEDIATELY TROWEL THE MESH INTO THE WET BASE COAT BY EXTENDING FROM THE CENTER TO THE EDGE OF THE MESH. BUTT ULTRA HIGH IMPACT MESH AT SEAMS. ALLOW THE BASE COAT TO DRY.</p> <p>6. STANDARD MESH APPLICATION: APPLY STANDARD MESH TO THE INSULATION BOARD, INCLUDING AREAS WITH ULTRA-HIGH IMPACT MESH WITH A STAINLESS STEEL TROWEL TO A UNIFORM THICKNESS OF APPROXIMATELY 1/8 INCH (3 MM). IMMEDIATELY TROWEL FROM THE CENTER TO THE EDGE OF THE MESH TO AVOID WRINKLES. (10'0MM) AND IMMEDIATELY TROWEL THE M</p>
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SHEET METAL FLASHING AND TRIM SECTION 07 62 00

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 SHEET METAL FLASHING AND TRIM MATERIALS, 2.3 MISCELLANEOUS MATERIALS AND HANDLING.

PART 3 - EXECUTION

Table with 2 columns: Section and Description. Includes items like 3.1 EXAMINATION, 3.2 PREPARATION, 3.3 INSTALLATION, 3.4 CLEANING.

PART 2 - PRODUCTS

Table with 2 columns: Section and Description. Includes items like 1. PRODUCTS, 2. QUALITY ASSURANCE, 3. DELIVERY, STORAGE AND HANDLING.

DIVISION 8 - OPENINGS

METAL DOORS & FRAMES SECTION 08 11 00

PART 1 - GENERAL

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 MATERIALS, 2.3 ALUMINUM FINISHES, 2.4 HARDWARE, 2.5 COMPONENTS, 2.6 FABRICATION.

PART 2 - PRODUCTS

Table with 2 columns: Section and Description. Includes items like 1. PRODUCTS, 2. QUALITY ASSURANCE, 3. DELIVERY, STORAGE AND HANDLING.

PART 3 - EXECUTION

Table with 2 columns: Section and Description. Includes items like 3.1 EXAMINATION, 3.2 PREPARATION, 3.3 INSTALLATION, 3.4 CLEANING.

SECTION 07 84 00

FIRESTOPPING

PART 1 - GENERAL

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 MATERIALS, 2.3 MISCELLANEOUS MATERIALS AND HANDLING.

SECTION 07 82 00

JOINT SEALANTS

PART 1 - GENERAL

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 MATERIALS, 2.3 MISCELLANEOUS MATERIALS AND HANDLING.

SECTION 07 92 00

JOINT SEALANTS

PART 3 - EXECUTION

Table with 2 columns: Section and Description. Includes items like 3.1 EXAMINATION, 3.2 PREPARATION, 3.3 INSTALLATION, 3.4 CLEANING.

SECTION 08 41 13

ALUMINUM ENTRANCES AND STOREFRONT WINDOWS

PART 1 - GENERAL

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 MATERIALS, 2.3 ALUMINUM FINISHES, 2.4 HARDWARE, 2.5 COMPONENTS, 2.6 FABRICATION.

PART 2 - PRODUCTS

Table with 2 columns: Section and Description. Includes items like 1. PRODUCTS, 2. QUALITY ASSURANCE, 3. DELIVERY, STORAGE AND HANDLING.

PART 3 - EXECUTION

Table with 2 columns: Section and Description. Includes items like 3.1 EXAMINATION, 3.2 PREPARATION, 3.3 INSTALLATION, 3.4 CLEANING.

SECTION 08 56 19

PASS-THRU WINDOWS

PART 1 - GENERAL

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 MATERIALS, 2.3 ALUMINUM FINISHES, 2.4 HARDWARE, 2.5 COMPONENTS, 2.6 FABRICATION.

PART 2 - PRODUCTS

Table with 2 columns: Section and Description. Includes items like 1. PRODUCTS, 2. QUALITY ASSURANCE, 3. DELIVERY, STORAGE AND HANDLING.

PART 3 - EXECUTION

Table with 2 columns: Section and Description. Includes items like 3.1 EXAMINATION, 3.2 PREPARATION, 3.3 INSTALLATION, 3.4 CLEANING.

SECTION 07 71

GUTTERS AND DOWNSPOUTS

PART 1 - GENERAL

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 MATERIALS, 2.3 MISCELLANEOUS MATERIALS AND HANDLING.

PART 2 - PRODUCTS

Table with 2 columns: Section and Description. Includes items like 1. PRODUCTS, 2. QUALITY ASSURANCE, 3. DELIVERY, STORAGE AND HANDLING.

PART 3 - EXECUTION

Table with 2 columns: Section and Description. Includes items like 3.1 EXAMINATION, 3.2 PREPARATION, 3.3 INSTALLATION, 3.4 CLEANING.

SECTION 08 70 00

DOOR HARDWARE

PART 1 - GENERAL

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 MATERIALS, 2.3 ALUMINUM FINISHES, 2.4 HARDWARE, 2.5 COMPONENTS, 2.6 FABRICATION.

PART 2 - PRODUCTS

Table with 2 columns: Section and Description. Includes items like 1. PRODUCTS, 2. QUALITY ASSURANCE, 3. DELIVERY, STORAGE AND HANDLING.

PART 3 - EXECUTION

Table with 2 columns: Section and Description. Includes items like 3.1 EXAMINATION, 3.2 PREPARATION, 3.3 INSTALLATION, 3.4 CLEANING.

SECTION 08 70 00

DOOR HARDWARE

PART 1 - GENERAL

Table with 2 columns: Section and Description. Includes items like 1.1 RELATED DOCUMENTS, 2.1 MANUFACTURERS, 2.2 MATERIALS, 2.3 ALUMINUM FINISHES, 2.4 HARDWARE, 2.5 COMPONENTS, 2.6 FABRICATION.

PART 2 - PRODUCTS

Table with 2 columns: Section and Description. Includes items like 1. PRODUCTS, 2. QUALITY ASSURANCE, 3. DELIVERY, STORAGE AND HANDLING.

PART 3 - EXECUTION

Table with 2 columns: Section and Description. Includes items like 3.1 EXAMINATION, 3.2 PREPARATION, 3.3 INSTALLATION, 3.4 CLEANING.

ISSUE TABLE

Table with 3 columns: No., Date (mm/dd/yy), Description. Lists revision dates and descriptions.

REVISIONS

Table with 3 columns: No., Date, Description. Lists revision dates and descriptions.

DRAWINGS REVISED AS PER DESIGN BULLETIN

Table with 3 columns: No., Date, Description. Lists revision dates and descriptions.

ISSUED FOR CONSTRUCTION

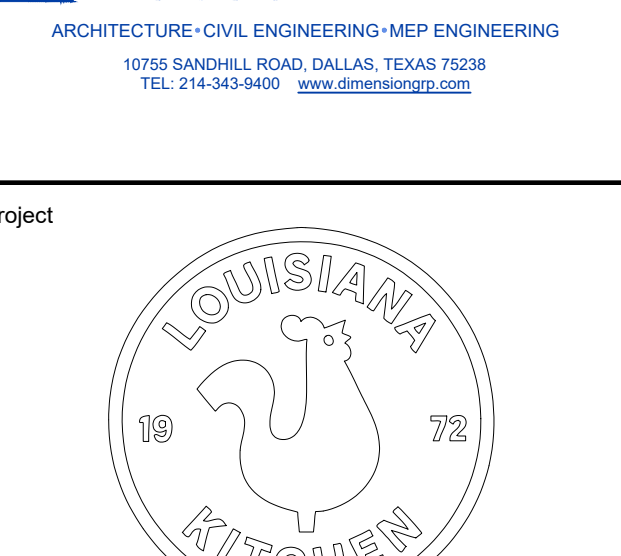
Table with 3 columns: No., Date, Description. Lists revision dates and descriptions.

11.10.2023

Company Logo



Project



Store Type

US 2112 PROTOTYPE 2112-21

Location

1517 NC 24-87 CAMERON, NC

Drawing Title

US 2112 PROTOTYPE 2112-21

Scale

SH AL

Date

JUNE 2023

Project No.

C22-119

Drawing No.

SP5

Architectural Specifications

1517 NC 24-87 CAMERON, NC

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 BRALLE, AND LAYOUT FOR EACH SIGN AT LEAST 1/4" SIZE-NERST 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 SIGN SCHEDULE.

13 INFORMATIONAL SUBMITTALS

A. SAMPLE WARRANTY.

14 CLOSEOUT SUBMITTALS

A. MAINTENANCE DATA.

15 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 FINISHED CORNERS, AND PRECISELY FORMED LINES AND PROFILES, AND AS FOLLOWS:

- 1. ILLUMINATED PANEL SIGN: BACKLIT CONSTRUCTION LIGHTING INCLUDING TRANSFORMERS, INDICATORS, AND/OR OTHER ACCESSORIES FOR OPERABILITY, WITH PROVISION FOR SERVING 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: MANUFACTURERS 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 MANUFACTURERS 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 STANDARDS. 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 METAL 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 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 SURFAGE, KEEP ADHESIVE AWAY FROM EDGES TO PREVENT ADHESIVE EXTRUSION AS SIGN IS MOVED 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 SURFAGE; 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 STRIPFILM 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. 13 INFORMATIONAL SUBMITTALS A. MATERIAL CERTIFICATES B. MATERIAL TEST REPORTS C. WARRANTY: SAMPLE OF SPECIAL WARRANTY.

14 CLOSEOUT SUBMITTALS

A. MAINTENANCE DATA.

15 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 E4, NFPA 265, OR UL 726 BY UL OR ANOTHER QUALIFIED TESTING AGENCY.

16 WARRANTY

A. SPECIAL WARRANTY: MANUFACTURERS 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.

(AS APPLICABLE)

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 256, TEST METHOD A. 2. CHEMICAL AND STAIN RESISTANCE PER ASTM STANDARDS. 3. SELF-EXTINGUISHING WHEN TESTED ACCORDING TO ASTM D 655. 4. FLAME SPREAD INDEX: 25 OR LESS. 5. SMOKE-DEVELOPED INDEX: 450 OR LESS. B. POLYCARBONATE PLASTIC SHEET: ASTM D 8088, S-PD1, CLASS 1 OR 2; ABRASION RESISTANT; WITH A MINIMUM IMPACT RESISTANCE RATING PER ASTM D 256, 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 NOT EXCEEDING VALUE-G, 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.

COLOR AND TEXTURE (TO BE VERIFIED WITH OWNER)

- 1. STAINLESS STEEL. 2. PVC CLIP-TYPE - WHITE. C. RETAINER CLIPS: MANUFACTURERS STANDARD IMPACT-ABSORBING CLIPS.

1. TOP AND BOTTOM CAPS: PREFABRICATED, INJECTION-MOLDED PLASTIC, COLOR MATCHING COVER; FIELD ADJUSTABLE FOR CLOSE ALIGNMENT WITH DRAWING COVER.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. GENERAL: INSTALL IMPACT-RESISTANT WALL PROTECTION UNITS LEVEL, PLUMB, AND TRUE TO LINE WITHOUT DISTORTION; DO NOT USE MATERIALS WITH CHIPS, CRACKS, VOIDS, STAINS, OR OTHER DEFECTS THAT MIGHT BE VISIBLE IN THE FINISHED WORK. 1. INITIAL IMPACT-RESISTANT WALL PROTECTION UNITS IN LOCATIONS AND AT MOUNTING HEIGHTS INDICATED ON DRAWINGS. 2. PROVIDE SPICES, MOUNTING HARDWARE, ANCHORS, AND OTHER ACCESSORIES REQUIRED FOR 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 OTHERS 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 (1.04 MM MINIMUM THICKNESS). B. BRASS: BRASS; UNPLATED; FLAT PRODUCTS: ASTM B16, RODS, SHAPES, FORINGS; AND FLAT PRODUCTS WITH FINISHED EDGES: ASTM B16, CASTINGS: ASTM B30. C. CHROMIUM PLATING: NICKEL AND CHROMIUM ELECTRO-DEPOSITED ON BASE METAL; ASTM B466, TYPE S22. 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 BEVELLED FLANGE, DOOR HAS TUMBLER LOCK, SELF-CLEANING PANEL, COVERED DISPOSAL OPENING, REMOVABLE, LEAK-PROOF, 1.2 GAL. PLASTIC RECEPTACLE.

2.4 BABY-CHANGING TABLE

- A. SURFACE MOUNTED TYPE: HORIZONTAL, POLYPROPYLENE AND UNBOUNDED STEEL CHASSIS; STEEL ON STEEL; HINGE WITH GAS SPRING MECHANISM. 2.5 SEMI-RECESSED GARAGE 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 PICH LOCK WITH INTERNATIONAL GRAPHIC SYMBOL, CONTAINING WASTE DISPOSAL.

2.6 GRAB BARS

- A. STAINLESS STEEL TYPE: PROVIDE GRAB BARS WITH WALL THICKNESS NOT LESS THAN 0.05 INCH (1/8 GAUGE); MOUNTING: CONCEALED; MANUFACTURERS STANDARD FLANGES AND ANCHORAGE; MOUNTING PER MANUFACTURERS STANDARD METHODS. CLEARANCE: 1-1/2" MIN. CLEARANCE BETWEEN FLANGE AND INSIDE FACE OF BAR. GRIPPING SURFACES: MANUFACTURERS STANDARD. HEAVY-DUTY SIZE: OUTSIDE DIAMETER 1-1/2" MIN. 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 1/8 INCH (3/16 GAUGE), WITH SQUARE CORNERS MITERED, WELDED, AND GROUND SMOOTH. PROVIDE NO. 4 SATIN POLISHED FINISH, ONE REQUIRED OVER EACH TOILET ROOM SIGN.

2.9 MISCELLANEOUS ACCESSORIES

- A. MOP AND BROOM HOLDER: WALL MOUNTING; 0.062 INCH (1/16 GAUGE) STAINLESS STEEL; WITH SPRING-LOADED RUBBER MAT, COM-TYPE MOPROOM HOLDERS. PROVIDE UNIT 24 INCHES LONG AND COMPLETE WITH FOUR MOPROOM HOLDERS. B. DOUBLE-FRONG ROBE HOOK: HEAVY-DUTY SATIN FINISHED STAINLESS STEEL; DOUBLE-FRONG ROBE HOOK; RECTANGULAR WALL BRACKET WITH BACKPLATE FOR CONCEALED MOUNTING; ONE REQUIRED FOR EACH TOILET ROOM.

2.10 FABRICATION

- A. GENERAL: A MINIMUM 1/10 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, PROVIDED ADDITIONAL IDENTIFICATION BY MEANS OF EITHER A PRINTED, WATERPROOF LABEL OR A STAMPED NAMEPLATE, INDICATING MANUFACTURERS 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 COM-TYPE 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 OWNERS REPRESENTATIVE.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALL TOILET ACCESSORY UNITS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS; USE FASTENERS APPROPRIATE TO SUBSTRATE AS RECOMMENDED BY MANUFACTURER. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED. B. ACCESSORIES IN COMPLIANCE WITH REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). C. SECURE MIRROR ON WALLS IN CONCEALED, TAMPERPROOF MANNER WITH SPECIAL HANGERS, TOGGLE BOLTS OR SCREWS; SET UNITS PLUMB, LEVEL, AND SQUARE AT LOCATIONS INDICATED, IN ACCORDANCE WITH MANUFACTURERS INSTRUCTION FOR TYPE OF SUBSTRATE INVOLVED. D. INSTALL GRAB BARS TO WITHSTAND A DOWNWARD LOAD OF AT LEAST 250 LBS, 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 MANUFACTURERS 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 EXTINGUISHERS AND CABINETS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS; PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: POTTER ROEMER

2.2 MATERIALS

- A. COL-COLOURED STEEL SHEET: CARBON STEEL, COMPLYING WITH ASTM A36/A36M, COMMERCIAL QUALITY, STRECH LEVELLED, 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 A888, TYPE 302 OR TYPE 304 ALLOY.

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:10-B-C); 18.18 NOMINAL CAPACITY, IN ENAMELED STEEL CONTAINER.

24 FIRE - PROTECTION CABINETS

- A. CABINET CONSTRUCTION: PROVIDE MANUFACTURERS STANDARD BOX (TUB), WITH TRIM, FRAME, DOOR, AND HARDWARE TO SUIT CABINET TYPE, TRIM STYLE, AND DOOR STYLE INDICATED; WELD JOINTS AND GROUND SMOOTH; INTER 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 E114 FOR FIRE RESISTANCE RATING OF WALL WHERE IT IS INSTALLED; CONSTRUCTION FIRE-RATED CABINETS WITH DOUBLE WALLS FABRICATED FROM 3/16" THICK, COL-COLOURED 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 ADAAGS REACH REQUIREMENTS FOR AN UNOBSTRUCTED APPROACH; THE MAXIMUM REACH IS 64 INCHES (1200 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 BACKEND DEPTH. E. CABINET TRIM MATERIAL: MANUFACTURERS STANDARD, SAME METAL AND FINISH AS DOOR.

F. DOOR MATERIAL: MANUFACTURERS STANDARD, SHEET METAL.

G. DOOR STYLE: MANUFACTURERS STANDARD DESIGN, SOLID OPAQUE PANEL WITH FRAME.

H. DOOR CONSTRUCTION: FABRICATE DOORS ACCORDING TO MANUFACTURERS STANDARDS; OF MATERIALS INDICATED, AND COORDINATED WITH CABINET TYPES AND TRIM STYLES INDICATED.

- I. DOOR HARDWARE: PROVIDE MANUFACTURERS STANDARD DOOR-OPERATING HARDWARE OF PROPER TYPE FOR CABINET TYPE, TRIM STYLE, AND DOOR MATERIAL AND STYLE INDICATED; PROVIDE EITHER LEVER HANDLE WITH CAM-LATCH 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: MANUFACTURERS STANDARD STEEL, DESIGNED TO SECURE EXTINGUISHER, OF SIZES REQUIRED FOR TYPES AND CAPACITIES OF EXTINGUISHERS INDICATED; 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 MANUFACTURERS FULL RANGE FOR CHARACTERISTICS.

2.7 FINISHES, GENERAL

- A. COMPLY WITH MANUFACTURERS METAL FINISHES MANUAL FOR RECOMMENDATIONS FOR APPLYING AND DESIGNATION FINISHES. 1. LANGLE FACSCA: FACSCA PANELS SHALL BE MADE FROM EXTRUDED ALUMINUM; FACSCA SHALL BE 7' OR 4' TO ACCOMMODATE SHADE ROLL; FACSCA SHALL CLIP TO BRACKETS AND SNAP EASILY INTO PLACE; IT SHALL BE EASILY REMOVED FOR ANY NECESSARY MAINTENANCE. a. FACSCA COLOR: VANILLA.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALL THE SHADES WHERE SHOWN ON THE CONTRACT DRAWINGS IN ACCORDANCE WITH PRINTED INSTRUCTIONS PROVIDED BY THE MANUFACTURER, SOO SHADE SYSTEMS, OR A MODIFICATION AS APPROVED BY THE MANUFACTURER. B. THE SHADE FABRIC SHALL HANG FLAT WITHOUT BUCKLING OR DISTORTION; THE EDGE WHEN TRIMMED, SHALL HANG STRAIGHT WITHOUT CURVING OR SAGGING; STANDARD ROLLER FABRICS SHALL ROLL WITHOUT SHAKING; SCREWS MORE THAN 1/4" IN EITHER DIRECTION; TOLERANCE FOR BRACKET SHALL NOT EXCEED 3/4" ON EITHER SIDE. C. VERIFY THAT ALL SURFACES AND OPENINGS ARE READY TO RECEIVE THE WORK; DO NOT COMMENCE THE WORK UNTIL THE INSTALLER VERIFIES FIELD MEASUREMENTS. D. BEGINNING THE INSTALLATION INDICATES THE INSTALLER ACCEPTS THE SUBSTRATE.

3.2 ADJUSTING

- A. THE SYSTEM SHALL BE ADJUSTED BY THE INSTALLER FOR SMOOTH OPERATION; ALL COMPLETED SHADES WILL BE OPERATED BY THE INSTALLER TO ENSURE THAT THEY FUNCTION CORRECTLY. B. INSTRUCT THE OWNERS OR HIS REPRESENTATIVE AS TO THE PROPER OPERATING PROCEDURES AND MAINTENANCE OF THE SYSTEM.

END OF SECTION 10 21 23

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 MANUFACTURERS TECHNICAL DATA AND INSTALLATION INSTRUCTIONS.

- B. SAMPLES: SUBMIT THREE SAMPLES OF EACH SHADE CLOTY 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. SOO'S SUN OR SHADE: A DIVISION OF INSIDE OUTFITTERS, INC. 853 GREEN MEADOWS DRIVE N., STE. B, LEWIS CENTER, OH, 43085 P. 603.742.3172, F. 677.880.3896, E.INFO@SSSHADES.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 FABRICS 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 MANUFACTURERS STANDARD COLOR LINE. B. FABRIC STYLE (1% 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 BEAD CHAIN SHALL CONTAIN AUTOMATIC STOPS TO PREVENT THE SHADE FROM OVER WINDING OR UNWINDING; THE BEAD CHAIN WILL BE SECURED BY A HOLD DOWN CLIP. D. EASY LIFT: THIS OPTION IS ADDED TO ALL SHADES THAT ARE OVER 30 POUNDS. E. HEMBAR: SHALL BE A CONTINUOUS ALUMINUM BAR 1" X 3/16" WITH SUFFICIENT WEIGHT TO ALLOW THE SHADE TO CLOSE WITHOUT BUCKLING OR SAGGING; STANDARD HEMBAR IS WRAPPED IN FABRIC AND SEALED AROUND ALL EDGES.

- F. SHADE MOUNTING BRACKETS: SHADE MOUNTING BRACKETS SHALL BE MANUFACTURED FROM 100% GALVANIZED STEEL; RESPONSIBLE FOR RIGHT AND LEFT HAND MOUNTING; THE BRACKETS MAY BE FIELD MOUNTED INSIDE, OUTSIDE OR CEILING MOUNTED; FACSCA BRACKETS SHALL MATCH FACSCA COLOR. G. FACSCA SYSTEM: ALL FACSCA SYSTEMS SHALL BE PRIME PAINTED WITH BAKED ENAMEL UTILIZING THE POWDER PAINT METHOD TO ENSURE AN ENVIRONMENTAL FRIENDLY APPLICATION; NET PAINT METHOD SHALL NOT BE ACCEPTED. 1. LANGLE FACSCA: FACSCA PANELS SHALL BE MADE FROM EXTRUDED ALUMINUM; FACSCA SHALL BE 7' OR 4' TO ACCOMMODATE SHADE ROLL; FACSCA SHALL CLIP TO BRACKETS AND SNAP EASILY INTO PLACE; IT SHALL BE EASILY REMOVED FOR ANY NECESSARY MAINTENANCE. a. FACSCA COLOR: VANILLA.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALL THE SHADES WHERE SHOWN ON THE CONTRACT DRAWINGS IN ACCORDANCE WITH PRINTED INSTRUCTIONS PROVIDED BY THE MANUFACTURER, SOO SHADE SYSTEMS, OR A MODIFICATION AS APPROVED BY THE MANUFACTURER. B. THE SHADE FABRIC SHALL HANG FLAT WITHOUT BUCKLING OR DISTORTION; THE EDGE WHEN TRIMMED, SHALL HANG STRAIGHT WITHOUT CURVING OR SAGGING; STANDARD ROLLER FABRICS SHALL ROLL WITHOUT SHAKING; SCREWS MORE THAN 1/4" IN EITHER DIRECTION; TOLERANCE FOR BRACKET SHALL NOT EXCEED 3/4" ON EITHER SIDE. C. VERIFY THAT ALL SURFACES AND OPENINGS ARE READY TO RECEIVE THE WORK; DO NOT COMMENCE THE WORK UNTIL THE INSTALLER VERIFIES FIELD MEASUREMENTS. D. BEGINNING THE INSTALLATION INDICATES THE INSTALLER ACCEPTS THE SUBSTRATE.

3.2 ADJUSTING

- A. THE SYSTEM SHALL BE ADJUSTED BY THE INSTALLER FOR SMOOTH OPERATION; ALL COMPLETED SHADES WILL BE OPERATED BY THE INSTALLER TO ENSURE THAT THEY FUNCTION CORRECTLY. B. INSTRUCT THE OWNERS OR HIS REPRESENTATIVE AS TO THE PROPER OPERATING PROCEDURES AND MAINTENANCE OF THE SYSTEM.

END OF SECTION 12 21 23

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

STRUCTURAL NOTES

A. GENERAL

- 1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS FULLY COMPLETED. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION, INCLUDING PROVISIONS FOR CHANGEABLE WEATHER UNTIL THE BUILDING IS ENCLOSED AND CONDITIONED. THE CONTRACTOR SHALL DESIGN, INSTALL AND SUBSEQUENTLY REMOVE ANY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS NECESSARY TO MAINTAIN SAFETY AND STRUCTURAL STABILITY DURING CONSTRUCTION. ANCHOR RODS AT STEEL COLUMNS HAVE NOT BEEN DESIGNED FOR, AND WILL NOT PROVIDE, TEMPORARY BRACING OR SUPPORT FOR OTHER COLUMNS OR OTHER CONNECTED FRAMING MEMBERS DURING CONSTRUCTION.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE TO FOLLOW ALL APPLICABLE SAFETY CODES, BUILDING CODES AND GOVERNING REGULATIONS WITH JURISDICTION OVER THE CONSTRUCTION SITE DURING ALL PHASES OF CONSTRUCTION.
3. ANY FRAMING SHOWN ON DRAWINGS THAT SUPPORTS EQUIPMENT (WHETHER SUPPORTED ABOVE OR SUSPENDED BELOW), DESIGN LOADS, OPENINGS AND PENETRATIONS, AND STRUCTURAL MEMBERS IN ANY MANNER RELATED TO HVAC, PLUMBING, ELECTRICAL OR FIRE PROTECTION REQUIREMENTS IS BASED ON EQUIPMENT DESIGNED, SHOWN AND/OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS. ALL REQUIRED FRAMING MAY NOT BE SHOWN. USING THE DETAILS PROVIDED ON THE STRUCTURAL DRAWINGS, THE GENERAL CONTRACTOR AND SUB-CONTRACTORS AND/OR EACH PRIME CONTRACTOR MUST COORDINATE AND INSTALL THE ACTUAL FRAMING REQUIRED FOR THE EQUIPMENT TO BE INSTALLED, AND INCLUDE COSTS FOR ALL REQUIRED FRAMING IN THE BID. IF THE CONTRACTOR REQUESTS AND RECEIVES APPROVAL TO SUBSTITUTE EQUIPMENT, THE CONTRACTOR MUST ALSO INSTALL THE FRAMING REQUIRED FOR THE SUBSTITUTED EQUIPMENT AS WELL, WITHOUT ADDITIONAL COST TO THE PROJECT, INCLUDING ANY AND ALL FEES REQUIRED BY THE ARCHITECT AND/OR ENGINEERS TO RE-DESIGN AND REVISE THE CONSTRUCTION DOCUMENTS.

- 4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

5. DESIGN BASIS: 2018 NORTH CAROLINA BUILDING CODE BASED ON THE IBC 2015, INCLUDING ALL ADOPTED REFERENCE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED THEREIN.

6. DESIGN CRITERIA

Table with 3 columns: AREA, UNIFORM (PSF), CONCENTRATED (POUNDS). Row 1: CONCRETE SLABS-ON-GROUND, 125, 1,000.

b. ROOF LOADING

- 1. DESIGN ROOF LIVE LOAD (MINIMUM) 25 PSF
2. ROOF SNOW LOADS:
a. GROUND SNOW LOAD, Pg 10 PSF
b. FLAT-ROOF SNOW LOAD, Pf 7.0 PSF
c. SNOW SURFACE LOAD, Cs 1.0
d. SNOW LOAD IMPORTANCE FACTOR, Is 1.0
e. THERMAL FACTOR, Ct 1.0
f. DRIFT SURCHARGE, Pd REFER TO ROOF FRAMING PLAN FOR DRIFT LOADS WHERE APPLICABLE
3. THE ROOF STRUCTURE HAS BEEN DESIGNED FOR THE ROOF LOADINGS INDICATED ABOVE SUCH THAT AN ADEQUATE ROOF SLOPE AND DRAINAGE SYSTEM ARE REQUIRED TO PREVENT PONDING LOADS WHICH MAY EXCEED THE DESIGN ROOF LOADS.

c. WIND LOADING

- 1. DESIGN WIND SPEED, Vwd/Vht 92 MPH/118 MPH
2. RISK CATEGORY II
3. WIND EXPOSURE CATEGORY C
4. INTERNAL PRESSURE COEFFICIENT, GCpi +0.18, -0.18
5. COMPONENTS AND CLADDING (PRESSURES INDICATED) ARE THE EDGE ZONE (BUILDING CORNER) SERVICE LEVEL. PRESSURES BASED ON A MINIMAL EFFECTIVE AREA AND MAY BE REDUCED ACCORDINGLY FOR INTERIOR ZONES AND LARGER EFFECTIVE AREAS:
a. ROOF WALLS +17 PSF, -29 PSF
+17 PSF, -23 PSF
6. SEISMIC DESIGN CRITERIA B
1. SEISMIC IMPORTANCE FACTOR, Ie 1.0
2. RISK CATEGORY II
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
a. SHORT PERIODS, Ss 0.148
b. 1 SECOND PERIOD, S1 0.07
D (ASSUMED)
4. SITE CLASS D (ASSUMED)
5. DESIGN SPECTRAL RESPONSE ACCELERATIONS:
a. SHORT PERIODS, Ss 0.157
b. 1 SECOND PERIOD, S1 0.112
B
7. BASIC SEISMIC-FORCE-RESISTING-SYSTEM: LIGHT FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
8. DESIGN BASE SHEAR 2.2 KIPS
9. SEISMIC RESPONSE COEFFICIENT, Cs 0.02
10. RESPONSE MODIFICATION FACTOR, R 6 1/2
11. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
e. ALL FRAMING MEMBERS HAVE BEEN DESIGNED TO MEET THE CODE MINIMUM LIVE LOAD AND TOTAL LOAD DEFLECTION CRITERIA.

- 7. SPECIAL INSPECTIONS: IN ACCORDANCE WITH OBC CHAPTER 17, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION INCLUDING SPECIAL INSPECTIONS DURING FABRICATION OF ALL SHOP-FABRICATED STRUCTURAL COMPONENTS. SPECIAL INSPECTIONS DURING SHOP FABRICATION OF STRUCTURAL COMPONENTS ARE NOT REQUIRED FOR FABRICATORS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTIONS. ALL INSPECTION AGENCIES SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS (REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OR NON-STRUCTURAL SYSTEMS WHERE REQUIRED):
a. SOILS.
b. CONCRETE CONSTRUCTION.
c. MASONRY CONSTRUCTION.
d. STRUCTURAL STEEL FABRICATION AND CONSTRUCTION INCLUDING FIELD WELDING AND INSTALLATION OF HIGH STRENGTH BOLTS.
e. WOOD CONSTRUCTION.

- 8. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. SEE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS. NOT SHOWN. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO AUGMENT, NOT SUPERSEDE, THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS. DO NOT SCALE THE DRAWINGS. DRAWINGS MAY NOT BE TO SCALE.

9. SHOP DRAWINGS

- a. SUBMIT THE FOLLOWING SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION:
1. CONCRETE REINFORCING AND MIX DESIGNS FOR EACH CLASS OF CONCRETE.
2. MASONRY REINFORCING STEEL
3. STRUCTURAL STEEL
4. PRE-ENGINEERED, PRE-FABRICATED TRUSSES
5. PREFABRICATED ITEMS PER PARAGRAPH A.10.b BELOW.
b. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR (TO INCLUDE INITIALS, DATE AND DISPOSITION), PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER. THE ENGINEER WILL RETURN ALL SHOP DRAWINGS, UNREVIEWED, THAT DO NOT BEAR THE APPROVAL STAMP OF THE CONTRACTOR.
c. USE OF PROPRIETARY PROJECT MANAGEMENT SOFTWARE AND SELECTION OF MANDATORY "APPROVED" OR SIMILAR BUTTONS FOR SHOP DRAWING, RFI, OR OTHER CONSTRUCTION ADMINISTRATION DOCUMENTATION MAKES NO CERTIFICATION OR IN ANY WAY CHANGES THE LANGUAGE OR DISPOSITION OF THE SHOP DRAWING STAMP OF THE STRUCTURAL ENGINEER OF RECORD. IN ALL CASES, THE LANGUAGE OF THE SHOP DRAWING STAMP OF THE STRUCTURAL ENGINEER OF RECORD OVERRIDES ANY CONFLICTING LANGUAGE FOUND IN AUTOMATED PROJECT MANAGEMENT SOFTWARE WHOSE USE IS MANDATED BY THE CONTRACTOR OR OTHER PARTY.

- 10. ARCHITECTURAL ITEMS OR PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY.
a. TYPICAL REFERENCED ARCHITECTURAL ITEMS INCLUDE, BUT MAY NOT BE LIMITED TO: DRAINS, DRAIN TILES, FINISHES, DOORS, WINDOWS, AND ITEMS FOR THERMAL AND MOISTURE PROTECTION. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR MATERIAL REQUIREMENTS, PLACEMENT AND EXACT LOCATION OF SUCH ITEMS.
b. TYPICAL REFERENCED PREFABRICATED ITEMS, NOT SPECIFICALLY DESIGNED OR SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL, INCLUDE BUT MAY NOT BE LIMITED TO: STAIRS, GUARDRAILS, CURTAIN WALLS/STOREFRONT SYSTEMS, AWNINGS AND PREFABRICATED FRAMING. SUCH SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE BUILDING CODE, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
1. THE STRUCTURAL DESIGN OF PREFABRICATED ITEMS AND THEIR CONNECTIONS TO THE SUPPORTING STRUCTURE OR SUPPORTING SYSTEMS BY OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE SUPPLIER. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SUPPORT/CONNECTION REQUIREMENTS BETWEEN ALL INVOLVED TRADES/SUPPLIERS.
2. THE STRUCTURAL DESIGN OF STAIRS AND GUARDRAILS AND THEIR CONNECTIONS TO THE SUPPORTING STRUCTURE SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT. SUBMIT SHOP DRAWINGS WHICH EXHIBIT THE SEAL OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.

B. FOUNDATIONS

- 1. NOTIFY THE ARCHITECT AS SOON AS POSSIBLE OF ANY UNUSUAL SOIL OR SUB-SURFACE CONDITIONS IN VARIANCE WITH TEST BORINGS, SUCH AS UNEXPECTED SPRING OR SEEPAGE WATER, MATERIAL DIFFERING FROM TEST BORINGS, OR SOIL/EXCAVATIONS OF QUESTIONABLE BEARING CAPACITY.
2. FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON FIRM, UNDISTURBED SOIL OR ENGINEERED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 2,000 POUNDS PER SQUARE FOOT. DESIGN BASED ON GEOTECHNICAL REPORT BY ATC ASSOCIATES TITLES "GEOTECHNICAL ENGINEERING SERVICES, POPEYES, SPOUTS SPRINGS NORTH CAROLINA, ATC PROJECT NUMBER 199TDG2206.
3. BEAR EXTERIOR FOUNDATIONS A MINIMUM OF 3'-0" BELOW EXTERIOR GRADE. STEP FOUNDATIONS AS REQUIRED TO COMPLY WITH ACTUAL GRADES, REGARDLESS OF FOOTING STEPS AND GRADES SHOWN ON THE DRAWINGS.
4. STEP THE TOPS OF ALL FOOTINGS BELOW UTILITY INVERT ELEVATIONS SO AS NOT TO INTERFERE WITH FOOTING SIZE AND REINFORCING. COORDINATE LOCATIONS AND ELEVATIONS OF FOOTING STEPS WITH ARCHITECTURAL AND PLUMBING DRAWINGS, WHERE UTILITY TRENCHES PASS BENEATH THICKENED SLABS OR OCCUR BELOW ADJACENT BUILDING FOUNDATIONS. FILL UTILITY EXCAVATIONS WITH CLASS IV CONCRETE FOR FULL WIDTH OF EXCAVATION TO THE UNDERSIDE OF THICKENED SLABS OR THE UNDERSIDE OF ADJACENT BUILDING FOUNDATIONS. EXTEND CLASS IV CONCRETE FILL FULL WIDTH AND LENGTH OF FOUNDATION PLUS 1'-6" BEYOND THE EDGE OF FOUNDATION EACH SIDE. PROVIDE A MINIMUM OF 2" SEMI-COMPRESSIBLE MATERIAL AROUND UNDERGROUND UTILITIES ENCASED IN CLASS IV CONCRETE FILL.
5. RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO INSPECT AND APPROVE BUILDING PAD PREPARATION AND FOUNDATION EXCAVATIONS FOR THE FOUNDATION DESIGN PARAMETERS INDICATED ABOVE. COORDINATE THE SCHEDULING OF THE GEOTECHNICAL ENGINEER'S SITE INSPECTION SERVICES WITH THE ANTICIPATED DATE OF CONCRETE PLACEMENT.
6. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES. REPLACE SOFT OR WEAKENED SOIL WITH CLASS IV CONCRETE OR ENGINEERED FILL.
7. THE EXISTENCE OF UNDERGROUND STRUCTURES AND/OR UTILITIES IS NOT KNOWN. USE EXTREME CARE WHEN EXCAVATING SO AS NOT TO DISTURB ANY EXISTING UNDERGROUND STRUCTURES AND/OR UTILITIES. COORDINATE WITH THE SURVEY AND WITH THE OWNER TO OBTAIN ANY INFORMATION AVAILABLE REGARDING EXISTING UTILITIES.
8. BACKFILL AGAINST BOTH SIDES OF BELOW GRADE WALLS EQUALLY UNTIL THE LOWER ELEVATION IS ATTAINED.

C. REINFORCED CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.
2. REFERENCE STANDARDS BY THE AMERICAN CONCRETE INSTITUTE (ACI)
a. ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE," ACCEPT AS SPECIFICALLY MODIFIED IN THE SPECIFICATIONS AND/OR HEREIN.
b. ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
c. ACI 305, "HOT WEATHER CONCRETING" AND ACI 306, "COLD WEATHER CONCRETING."
d. ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
3. MATERIALS
a. STRUCTURAL CONCRETE
CLASS LOCATION f'c (psi)
I FOOTINGS 3,000
II INTERIOR SLABS-ON-GROUND AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED 3,500
III EXTERIOR SLABS-ON-GROUND AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED 4,500 (with air)
IV BACKFILL BELOW FOOTINGS 1,500

- 1. THE MIX DESIGNS SHOWN ABOVE ARE BASED ON CONCRETE IN CONTACT WITH SOIL OR WATER WITH A NEGLIGIBLE SULFATE RESISTANCE CATEGORY (SO) PER ACI 318. THE GEOTECHNICAL ENGINEER SHALL CONFIRM THE SULFATE RESISTANCE CATEGORY AND NOTIFY THE ARCHITECT AS SOON AS POSSIBLE IF THE SULFATE RESISTANCE CATEGORY DIFFERS FROM THAT LISTED.
b. ALL DEFORMED REINFORCING BARS: ASTM A615, GRADE 60.
c. ALL WELDED WIRE FABRIC: ASTM A1064, DELIVERED IN FLAT SHEETS.

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

- 5. CONTINGENCIES
a. INSTALL SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING. INCLUDE SUCH SUPPORTS WITH THE BID.

- 6. OPENINGS
a. IF ANY OPENING NOT SHOWN ON THE DRAWINGS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING.

- 7. FOOTINGS
a. INSTALL CORNER BARS AT FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. LAP CORNER BARS 48 BAR DIAMETERS WITH HORIZONTAL FOOTING REINFORCING.
b. INSTALL LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.

- 8. PROVIDE 48 BAR DIAMETER LAP SPLICES AT ENDS OF CONTINUOUS HORIZONTAL REINFORCING.

- 9. CONTRACTION AND CONSTRUCTION JOINTS
a. PROVIDE CONTRACTION JOINTS IN ALL INTERIOR SLABS-ON-GROUND, WHETHER SHOWN OR NOT, AT MAXIMUM INTERVALS OF TWELVE FEET, EACH WAY, UNLESS SHOWN OR NOTED OTHERWISE.

- 10. 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 1-1/2 INCHES #5 BARS AND SMALLER OTHERS 2 INCHES

D. ENGINEERED MASONRY CONSTRUCTION

- 1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.
2. REFERENCE STANDARDS
a. ACI 530/ASCE 5/TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES."
b. ACI 530/ASCE 6/TMS 602, "SPECIFICATION FOR MASONRY STRUCTURES."
1. CONFORM COLD WEATHER MASONRY CONSTRUCTION TO PARAGRAPH I.B.C.
2. CONFORM HOT WEATHER MASONRY CONSTRUCTION TO PARAGRAPH I.B.D.
3. MATERIALS
a. CONCRETE BLOCK: ASTM C90, MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS: 2,500 PSI.
b. MORTAR: TYPE S, MINIMUM COMPRESSIVE STRENGTH: 1,800 PSI.
c. BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE, MINIMUM COMPRESSIVE STRENGTH: 2,500 PSI.
d. BAR REINFORCING: ASTM A615, GRADE 60.
4. REINFORCED MASONRY: APPLY THE FOLLOWING REQUIREMENTS WHERE VERTICAL REINFORCING BARS ARE DETAILED ON THE DRAWINGS.
a. COORDINATE LOCATIONS OF REINFORCING DOWELS TO BE CAST-IN TO CONCRETE FOOTINGS WITH THE CONCRETE SUB-CONTRACTOR.
b. SOLIDLY FILL ALL CORES CONTAINING VERTICAL REINFORCING WITH GROUT.
c. SUBMIT REINFORCING STEEL SHOP DRAWINGS SHOWING REINFORCING STEEL SIZES, SPACINGS AND LOCATIONS AND DETAILS OF DOWELS.
5. 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 VERTICAL COLLAR JOINTS BELOW GRADE SOLIDLY WITH MORTAR.
c. FILL CORES SOLIDLY AROUND ANCHOR RODS. SOLIDLY FILL ALL CORES A MINIMUM OF 8 INCHES ALL AROUND WHERE EXPANSION ANCHORS AND/OR CHEMICAL ADHESIVE ANCHORS ARE TO BE INSTALLED.
d. LAY HOLLOW MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SURFACES. PROVIDE FULL MORTAR COVERAGE FOR ALL WEBS IN THE STARTING COURSE OF CONSTRUCTION AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH GROUT. LAY SOLID UNITS WITH FULL HEAD AND BED JOINTS.

E. STRUCTURAL STEEL

- 1. ALL STEEL CONSTRUCTION SHALL COMPLY WITH THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.

- 2. REFERENCE STANDARDS
a. ANSI/AISC 360, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC).
b. AISC 303, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC).
c. "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RSCC).
d. AWS D1.1, "STRUCTURAL WELDING CODE" BY THE AMERICAN WELDING SOCIETY (AWS).

- 3. MATERIALS
a. ANGLES, PLATES AND BARS: Fy = 36 KSI, ASTM A36.
b. HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE C.
1. SQUARE/RECTANGULAR: Fy = 50 KSI.
c. HIGH STRENGTH BOLTS: ASTM A325 OR A490.
d. ANCHOR RODS: ASTM F1554, GRADE 36.
e. THREADED RODS: ASTM A36, Fy = 36 KSI.
f. NUTS: ASTM A563.
g. WASHERS: ASTM F436.
h. ELECTRODES: SERIES E70.
i. CHEMICAL ADHESIVE ANCHORS: HILTI HIT-RE 500 V3.

- 4. THE CONTRACTOR, FABRICATOR OR ERECTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE OWNER'S DESIGNATED CONSTRUCTION REPRESENTATIVE IF CHANGES ARE REQUIRED TO THE STRUCTURAL STEEL FRAME TO ALLOW ERECTION TO CONFORM TO OSHA REGULATIONS, INCLUDING SUB-PART R. BIDS SHALL BE BASED ON THE ERECTION METHOD CHOSEN BY THE CONTRACTOR OR ERECTOR. BIDDING TO INCLUDE THE COST FOR MODIFICATION OF THE STRUCTURAL STEEL, STEEL JOISTS, JOIST GIRDERS, STEEL DECK OR LATERAL-LOAD-RESISTING SYSTEM BASED ON THE CHOSEN METHOD OF ERECTION.

- 5. PAINT
a. DO NOT PAINT STEEL OR ANCHOR RODS WHICH WILL BE ENCASED IN CONCRETE OR ANY INTERIOR STEEL WHICH WILL BE LOCATED INSIDE THE FINISHED PRODUCT CONCEALED FROM VIEW, INCLUDING STEEL THAT WILL RECEIVE SPRAYED FIREPROOFING, TYPICAL UNLESS NOTED OTHERWISE.
b. PAINT EXPOSED, EXTERIOR STEEL MEMBERS, INCLUDING STEEL MEMBERS CONCEALED IN EXTERIOR WALLS WITH TWO COATS OF SHOP PRIMER, TYPICAL UNLESS NOTED OTHERWISE.

- 6. MISCELLANEOUS
a. PROTECT STEEL BELOW GRADE BY A MINIMUM OF 3 INCHES OF CAST-IN-PLACE CONCRETE OR 4 INCHES OF SOLID OR SOLIDLY-GROUTED MASONRY.
b. INSTALL HEAVY NUT AND WASHER AT ALL ANCHOR RODS, BOTH ENDS. ANCHOR ROD LENGTHS SHOWN OR LABELED REFER TO THE EMBEDMENT LENGTH FROM TOP OF CONCRETE OR MASONRY TO FACE OF LOWER WASHER. PROVIDE OVERALL TOTAL ROD LENGTHS AS REQUIRED TO INCLUDE PROJECTIONS AT TOP, AND WASHER AND NUT AT THE BOTTOM.
c. FINISH ENDS OF ALL COLLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.

- 7. REFER TO ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STEEL (STAIRS, LADDERS, BOLLARDS, GRATING, HANDRAILS, ETC.).

F. STRUCTURAL LUMBER

- 1. ALL STRUCTURAL LUMBER CONSTRUCTION SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.
2. REFERENCE STANDARD
a. ANSI/AWC NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE AMERICAN WOOD COUNCIL (AWC).
3. MATERIALS
a. ALL LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF DOC PS 20. FURNISH LUMBER, ANCHOR AND BRACING WITH EACH PIECE OF INSPECTION. INSPECTION AGENCY VERIFYING COMPLIANCE WITH GRADING RULE REQUIREMENTS AND IDENTIFYING GRADING AGENCY, GRADE, SPECIES, MOISTURE CONTENT AND MILL.
b. ALL WOOD STRUCTURAL PANELS SHALL COMPLY WITH REQUIREMENTS OF DOC PS 1, DOC PS 2, HPSVA HP I AND APA PDS. FACTORY-MARK ALL WOOD STRUCTURAL PANELS WITH A GRADING STAMP OF THE INSPECTION AGENCY.
c. STUDS: SPRUCE-PINE-FIR, NO.2 GRADE OR BETTER, ACCORDING TO THE NATIONAL LUMBER GRADERS AUTHORITY (NLGA), SEASONED AT 19% M.C.
d. STRUCTURAL LUMBER: SPRUCE-PINE-FIR NO. 2 OR BETTER, ACCORDING TO THE NATIONAL LUMBER GRADERS ASSOCIATION (NLGA), SEASONED AT 19% M.C.
e. WOOD STRUCTURAL PANELS (PLYWOOD OR ORIENTED STRAND BOARD):
1. ROOF: 19/32" (5/8" NOMINAL), APA RATED SHEATHING, 40/20, EXPOSURE 1, U.N.O.
2. WALL: 15/32" (1/2" NOMINAL), APA RATED SHEATHING, 32/16, EXPOSURE 1.
f. FASTENERS:
1. NAILS: COMMON STEEL WIRE NAILS, CONFORMING TO ASTM F1667.
2. WOOD SCREWS: FLAT HEAD, CONFORMING TO ANSI/ASME STANDARD B18.6.1.
3. BOLTS, NUTS AND WASHERS: CONFORM TO ASTM A307, ASTM A563 AND ASTM F436, RESPECTIVELY.
9. WOOD-PRESERVATIVE TREATMENT: COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANPA STANDARD U1. MARK EACH TREATED ITEM WITH THE APPROPRIATE QUALITY MARK.

- 4. CONNECTIONS: AS A MINIMUM, CONFORM CONNECTIONS FOR STRUCTURAL MEMBERS TO THE FASTENING SCHEDULE LISTED IN TABLE 2304.911 OF THE OHIO BUILDING CODE.
a. PROVIDE GALVANIZED CONNECTORS BY THE SIMPSON STRONG-TIE CO. INSTALL ALL CONNECTORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
b. WOOD STRUCTURAL PANELS TO WOOD STUDS: USE 10d COMMON NAILS SPACED AT 6 INCHES O.C. AT PANEL EDGES AND 12 INCHES O.C. AT INTERMEDIATE SUPPORTS. INSTALL PLYWOOD CLIPS AT MID-SPAN OF PLYWOOD BETWEEN SUPPORTS.
c. WOOD STRUCTURAL PANELS TO WOOD STUDS: USE 10d COMMON NAILS SPACED AT 6 INCHES O.C. AT PANEL EDGES AND 12 INCHES O.C. AT INTERMEDIATE SUPPORTS. BLOCK ALL EDGES WITH FULL-DEPTH BLOCKING.
d. PROVIDE GALVANIZED FASTENERS FOR ALL EXTERIOR APPLICATIONS AND FOR ALL WOOD-PRESERVATIVE TREATED MATERIALS.
e. AT POSTS AND JAMBS OF OPENINGS, NAIL MULTIPLE STUDS TOGETHER WITH 10d NAILS AT 8" O.C., FULL LENGTH.

- 5. MISCELLANEOUS
a. AT ALL EXTERIOR STUD WALLS AND INTERIOR BEARING WALLS, INSTALL A CONTINUOUS LINE OF SOLID BLOCKING AT MID-HEIGHT OF THE WALL, BUT AT NO GREATER THAN 5'-0" ON CENTER MAXIMUM.
b. UNLESS NOTED OTHERWISE, INSTALL MINIMUM DOUBLE JACK BEARING STUDS UNDER EACH END OF ALL BEAMS AND GIRDERS TRUSSES, BUT NOT LESS THAN THE NUMBER REQUIRED TO PROVIDE FULL-WIDTH SOLID BEARING UNDER THE SUPPORTED MEMBERS.
c. INSTALL STANDARD THREE-STUD CORNER CONSTRUCTION AT INSIDE AND OUTSIDE CORNERS, PROVIDING NAILING SURFACES FOR SHEATHING. INSTALL BLOCKING AS REQUIRED.
d. AT DOOR AND WINDOW OPENINGS IN INTERIOR PARTITION (NON-LOADBEARING) WALLS, INSTALL A MINIMUM OF ONE JACK BEARING STUD AND ONE FULL-HEIGHT KING STUD AT EACH END OF HEADERS, UNLESS NOTED OR SCHEDULED OTHERWISE.
AT DOOR AND WINDOW OPENINGS IN EXTERIOR WALLS, INSTALL A MINIMUM OF TWO JACK BEARING STUDS AND TWO FULL-HEIGHT KING STUDS AT EACH END OF HEADERS, UNLESS NOTED OR SCHEDULED OTHERWISE.
e. UNLESS NOTED OTHERWISE, AT EXTERIOR WALLS INSTALL TRIPLE 2 X 8 HEADERS OVER OPENINGS IN 2 X 6 STUD WALLS.
UNLESS NOTED OTHERWISE, AT INTERIOR PARTITION (NON-LOADBEARING) WALLS, INSTALL DOUBLE 2 X 6 HEADERS OVER OPENINGS IN 2 X 4 STUD WALLS AND TRIPLE 2 X 6 HEADERS OVER OPENINGS IN 2 X 6 STUD WALLS.

- f. INSTALL ONE LAYER OF 1/2" THICK WOOD STRUCTURAL PANEL BETWEEN EACH MEMBER OF DIMENSIONAL LUMBER HEADERS.
g. TREAT ALL EXTERIOR LUMBER OR LUMBER IN CONTACT WITH CONCRETE OR MASONRY WITH PRESERVATIVE IN ACCORDANCE WITH ANPA.
h. INSTALL WOOD STRUCTURAL PANEL WALL SHEATHING ON ALL EXTERIOR WALLS.
i. EXTEND MULTIPLE BEARING STUDS CONTINUOUSLY FROM SUPPORTED MEMBER DOWN TO STRUCTURAL STEEL BEAMS, OR MASONRY FOUNDATION WALLS.
j. PROVIDE AND INSTALL TEMPORARY AND PERMANENT BRACING FOR PRE-ENGINEERED, PRE-FABRICATED WOOD TRUSSES AS INDICATED ON THE TRUSS MANUFACTURER'S APPROVED SHOP DRAWINGS.
k. HOT-DIP GALVANIZE ALL STEEL CONNECTORS AND PRODUCTS 14 GA. AND THICKER AFTER FABRICATION THAT ARE IN CONTACT WITH PRESERVATIVE-TREATED WOOD. PROVIDE MINIMUM 2.0 OZ. COATING, ALL SIDES, PER ASTM A123. PROVIDE HOT-DIPPED GALVANIZED CONNECTORS PER ASTM A153 OR STAINLESS STEEL CONNECTORS.
HOT-DIP GALVANIZE ALL STEEL CONNECTORS AND PRODUCTS LESS THAN 14 GA. THICK AFTER FABRICATION THAT ARE IN CONTACT WITH PRESERVATIVE-TREATED WOOD. PROVIDE MINIMUM 1.85 OZ. COATING, ALL SIDES, PER ASTM A653. PROVIDE HOT-DIPPED GALVANIZED CONNECTORS PER ASTM A153 OR STAINLESS STEEL CONNECTORS.

G. PRE-ENGINEERED, PRE-FABRICATED WOOD TRUSSES

- 1. THE DESIGN, FABRICATION AND INSTALLATION OF ALL PRE-ENGINEERED, PREFABRICATED WOOD TRUSSES SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.
2. REFERENCE STANDARDS
a. ANSI/AWC NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE AMERICAN WOOD COUNCIL (AWC).
b. ANSI/TPI-1, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" BY THE TRUSS PLATE INSTITUTE (TPI).

- 3. MATERIALS
a. THE TERM "TRUSS" USED IN THIS SECTION APPLIES TO TRUSSES THAT ARE DESIGNED AND FABRICATED AS SEPARATE ENGINEERED PRODUCTS, AND DELIVERED TO THE PROJECT SITE FOR INSTALLATION.
b. LUMBER: SPECIES PER DESIGN BY THE TRUSS MANUFACTURER, NO. 2 GRADE OR BETTER, 15% MAXIMUM M.C., EXCEPT THE TRUSS MANUFACTURER MAY USE STUD-GRADE FOR WEB MEMBERS.
4. DESIGN
a. THE TRUSS MANUFACTURER SHALL DESIGN, DETAIL, PROVIDE AND INSTALL ALL INTERNAL TRUSS COMPONENT CONNECTIONS.
b. THE TRUSS MANUFACTURER SHALL DESIGN AND DESIGNATE ALL TRUSS-TO-TRUSS HANGERS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRUSS-TO-TRUSS HANGERS IN ACCORDANCE WITH THE HANGER MANUFACTURER'S SPECIFICATIONS.
c. METAL CONNECTOR PLATES: USE GALVANIZED SHEET STEEL CONFORMING WITH ASTM A653, COATING CLASS G60. MANUFACTURE WITH HOLES, PLUGS, TEETH, OR PRONGS UNIFORMLY SPACED AND FORMED.
d. IN ADDITION TO THE UNIFORM LOADS INDICATED BELOW, DESIGN TRUSSES FOR ALL SUPERIMPOSED DEAD LOADS INCLUDING BUT NOT LIMITED TO OVERLAY FRAMING, CHIMNEYS, MECHANICAL EQUIPMENT, ETC. DESIGN TRUSSES FOR THE EFFECTS OF DRIFTING SNOW WHERE APPLICABLE. DESIGN TRUSSES AND REQUIRED BRACING TO RESIST THE NET WIND UPLIFT INDICATED ON THE DRAWINGS.
e. DESIGN OF MEMBERS AND CONNECTIONS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT, EXPERIENCED IN SIMILAR DESIGN, RETAINED BY THE MANUFACTURER.
f. DESIGN BOTTOM CHORDS OF GIRDER TRUSSES FOR THE END REACTIONS OF SUPPORTED TRUSSES.
g. DESIGN ALL TRUSSES FOR ADDITIONAL SERVICE LOADS INDICATED ON PLAN.

- 5. DESIGN LOADS
a. ROOF LOADS:
1. TOP CHORD DEAD LOAD: 10 PSF
2. TOP CHORD LIVE LOAD: SEE PARAGRAPH A.6.b, GENERAL NOTES
3. BOTTOM CHORD DEAD LOAD: 5 PSF
4. BOTTOM CHORD LIVE LOAD: 20 PSF WHERE REQUIRED BY OBC BASED ON WEB CONFIGURATION
5. WIND LOADING: SEE PARAGRAPH A.6.c, GENERAL NOTES
a. NET WIND UPLIFT: 12 PSF
b. DEFLECTIONS
1. ROOF
a. MAXIMUM LIVE LOAD DEFLECTION: L/360, OR 0.75" MAXIMUM
b. MAXIMUM TOTAL LOAD DEFLECTION: L/240, OR 1" MAXIMUM
c. DESIGN ALL BRACING AND BRACING CONNECTIONS FOR ALL TRUSS TOP CHORDS, BOTTOM CHORDS AND WEB MEMBERS. PARTICULAR ATTENTION SHALL BE GIVEN TO AREAS IN THE FINISHED STRUCTURE WHICH CONTAIN TRUSSES WITH UN-SHEATHED TOP AND/OR BOTTOM CHORD MEMBERS.

- 6. SUBMITTALS
a. SUBMIT TRUSS SHOP DRAWINGS WHICH EXHIBIT THE SEAL OF THE ENGINEER RESPONSIBLE FOR THE TRUSS DESIGN.
b. SUBMIT LAYOUT DRAWING WHICH INDICATES THE LOCATION OF EACH TRUSS.
c. SUBMIT HANGER CONNECTOR TYPES AND LOCATIONS.
d. INDICATE ALL TEMPORARY AND PERMANENT BRACING REQUIREMENTS OF TRUSS MEMBERS, IN AREAS WHERE TRUSS TOP CHORDS AND/OR BOTTOM CHORDS DO NOT RECEIVE SHEATHING, INDICATE THE REQUIRED CHORD BRACING AND BRACE SPACINGS FOR ALL APPLICABLE LOAD CASES. INDICATE ANCHORAGE OF "CAP" TRUSSES AND/OR "OVERLAY" TRUSSES.

ISSUE TABLE table with columns: No., Date (mm/dd/yyyy), Description.

REVISIONS table with columns: No., Date, Description.

DRAWINGS REVISED AS PER DESIGN BULLETIN table with columns: No., Date, Description.

ISSUED FOR CONSTRUCTION

PROJECT NORTH seal and drawing ownership text: THIS DRAWING IS OWNED BY OR LICENSED FOR USE BY POPEYES LOUISIANA KITCHEN...

Professional Engineer seal for Phillippe J. Lalonde, State of North Carolina, No. 030371.

Company Logo: THE DIMENSION GROUP ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING

Project seal: LOUISIANA KITCHEN Professional Engineer seal for Phillippe J. Lalonde, State of Louisiana, No. 1972.

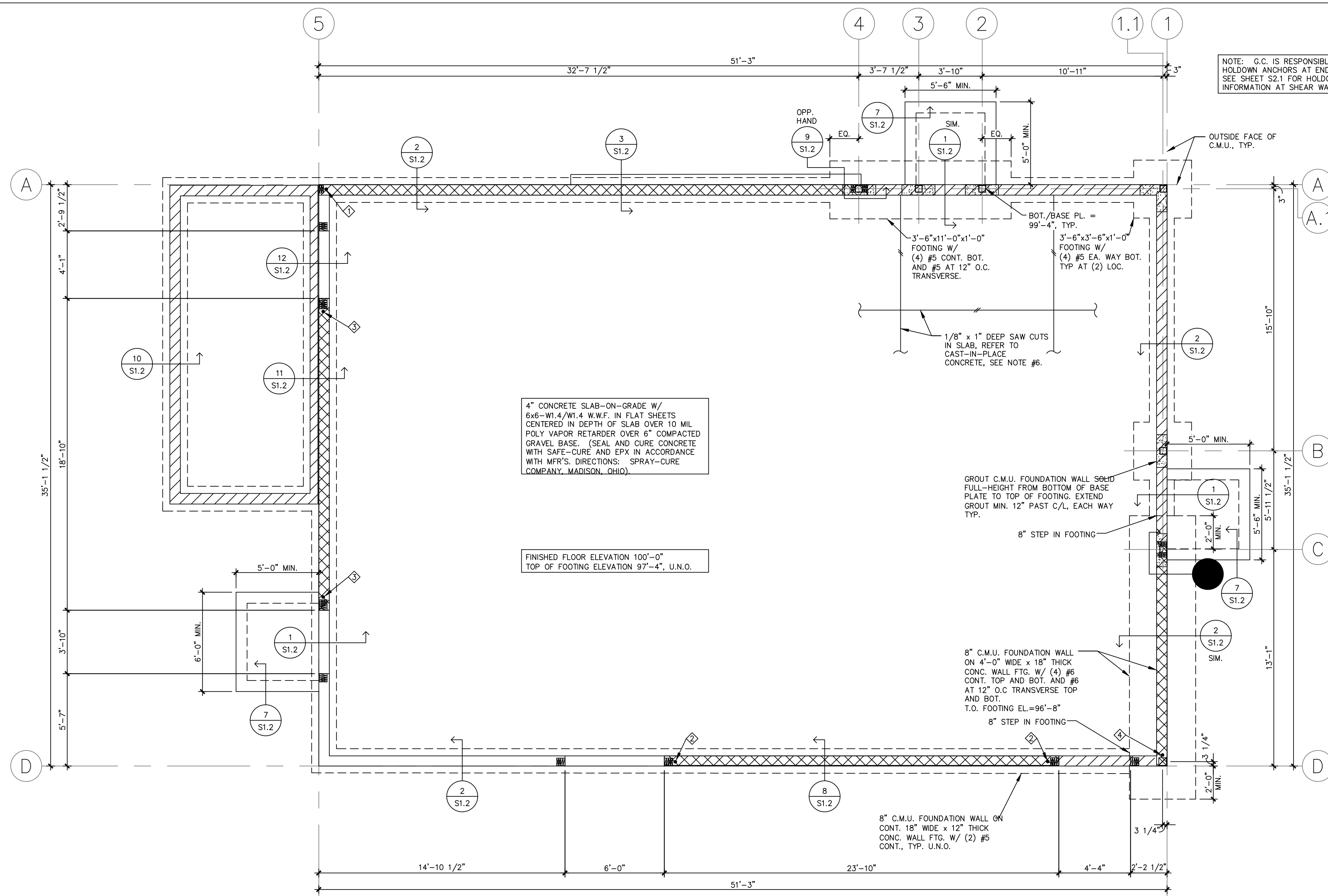
Store Type: US 2112 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: STRUCTURAL NOTES

Table with columns: Drawn, Checked, Scale, Date, Project No., Drawing No.

PHILIPPE LALONDE, P.E. CONSULTING STRUCTURAL ENGINEER contact information and seal.



NOTE: G.C. IS RESPONSIBLE FOR LOCATING HOLD-DOWN ANCHORS AT ENDS OF SHEAR WALLS. SEE SHEET S2.1 FOR HOLD-DOWN AND STUD INFORMATION AT SHEAR WALLS.

CAST-IN PLACE CONCRETE

- CONFORM TO ACI 318 BUILDING CODE (EDITION LISTED IN APPLICABLE BUILDING CODE) REQUIREMENTS FOR REINFORCED CONCRETE.
- COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS U.N.O.

LOCATION	COMPRESSIVE STRENGTH
SLAB-ON-GRADE	3500 PSI
FOOTINGS	3000 PSI
EXTERIOR CONC.	4500 PSI
LEAN BACKFILL	1500 PSI

- MAXIMUM SLUMP IS TO BE 4"
- CONCRETE EXPOSED TO WEATHER SHALL HAVE AN AIR-ENTRAINMENT OF 5% +/- 1.5%
3. ALL REINFORCING STEEL SHALL BE HARD GRADE ASTM A615 YIELD STRENGTH OF $F_y = 60$ KSI.
4. WELDED WIRE REINF. SHALL CONFORM TO ASTM A1064 "WELDED STEEL WIRE REINF. FOR CONCRETE REINFORCEMENT."
5. CONCRETE COVER FOR REINFORCING STEEL BARS AND PLACING TOLERANCES SHALL BE IN ACCORDANCE WITH ACI 318 (EDITION LISTED IN APPLICABLE BUILDING CODE).
6. SAWCUT SLAB-ON-GRADE TO A DEPTH OF 1" AS SHOWN ON PLAN WITHIN 6 HOURS OF POURING.

EXCAVATING AND BACKFILLING

- FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL PRESSURE OF 2000 PSF.
- EXTEND EXTERIOR FOOTINGS TO A MIN. OF 3'-0" BELOW FINISH GRADE. VERIFY WITH LOCAL AUTHORITIES.
- BEAR ALL FOOTINGS ON ORIGINAL UNDISTURBED SOIL. BEFORE POURING FOOTINGS, SOIL QUALITY MUST BE APPROVED BY A GEOTECHNICAL ENGINEER.
- THE FOUNDATION WALL ELEVATIONS SHOWN ARE NOMINAL. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING THE BOTTOM OF THE FOOTING DOWN TO UNDISTURBED SUITABLE SOIL. THE LINE OF SLOPE BETWEEN THE ADJACENT EXCAVATIONS FOR FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. MAXIMUM STEP APPROXIMATELY 24".
- SEE S1.2 FOR TYPICAL FOOTING STEP DETAIL AND 6/S1.2 FOR TYPICAL DETAIL WHERE UTILITY LINES PASS BELOW FOOTINGS.

HOLD-DOWN SCHEDULE

MARK	TYPE	CONN. TO STUDS	ANCHOR ROD	ANCHOR ROD EMBEDMENT
◇	SIMPSON HD3B	(2) 5/8" DIA. STUD BOLTS	5/8" DIA. W/ HEAVY HEX NUT	12"
◇	SIMPSON HD5B	(2) 3/4" DIA. STUD BOLTS	5/8" DIA. W/ HEAVY HEX NUT	12"
◇	SIMPSON HD9B	(3) 7/8" DIA. STUD BOLTS	7/8" DIA. W/ HEAVY HEX NUT	18"
◇	SIMPSON HD12	(4) 1" DIA. STUD BOLTS	1" DIA. W/ HEAVY HEX NUT	30"

4" CONCRETE SLAB-ON-GRADE W/ 6x6-W1.4/W1.4 W.W.F. IN FLAT SHEETS CENTERED IN DEPTH OF SLAB OVER 10 MIL POLY VAPOR RETARDER OVER 6" COMPACTED GRAVEL BASE. (SEAL AND CURE CONCRETE WITH SAFE-CURE AND EPX IN ACCORDANCE WITH MFR'S. DIRECTIONS: SPRAY-CURE COMPANY, MADISON, OHIO).

FINISHED FLOOR ELEVATION 100'-0"
TOP OF FOOTING ELEVATION 97'-4", U.N.O.

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

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4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

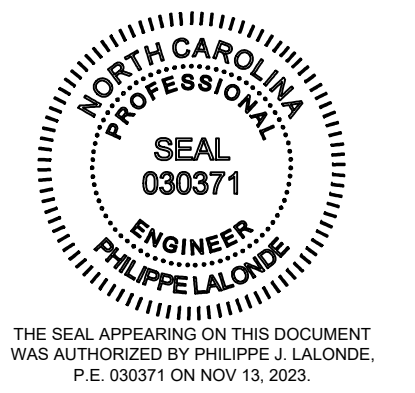
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Project

Store Type
US 2112 PROTOTYPE
2112-21

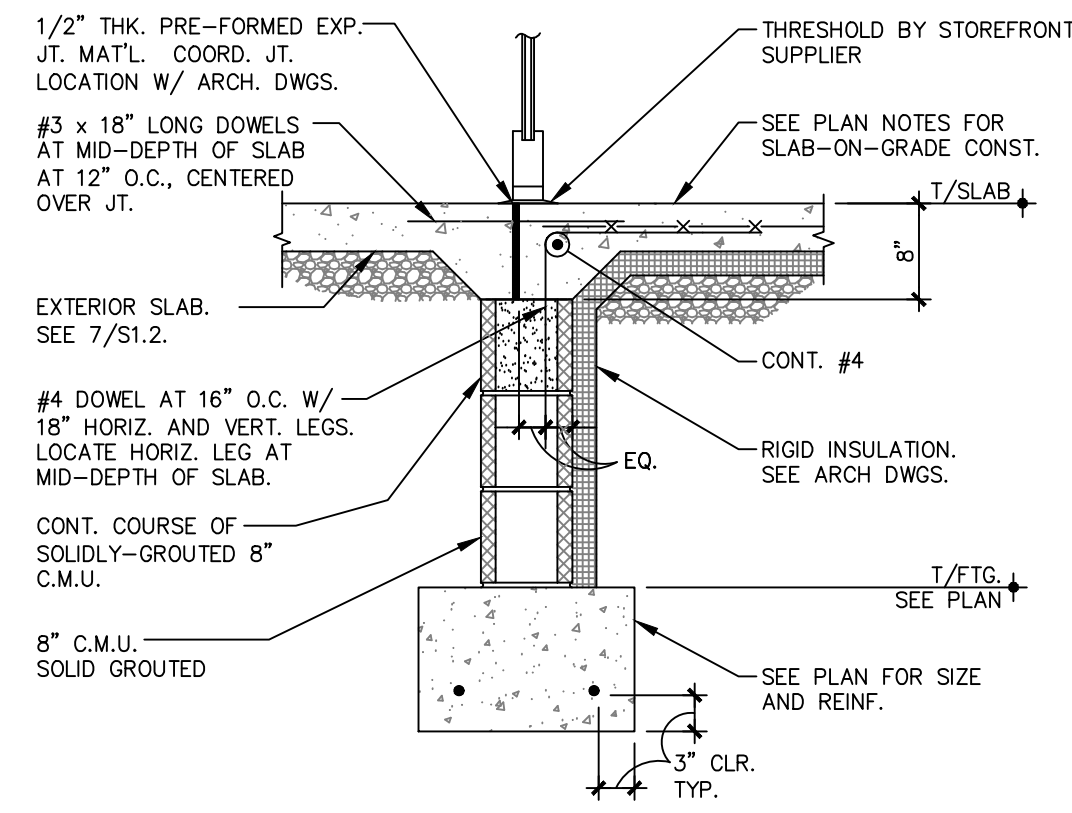
Location
1517 NC 24-87
CAMERON, NC

Drawing Title
FOUNDATION PLAN

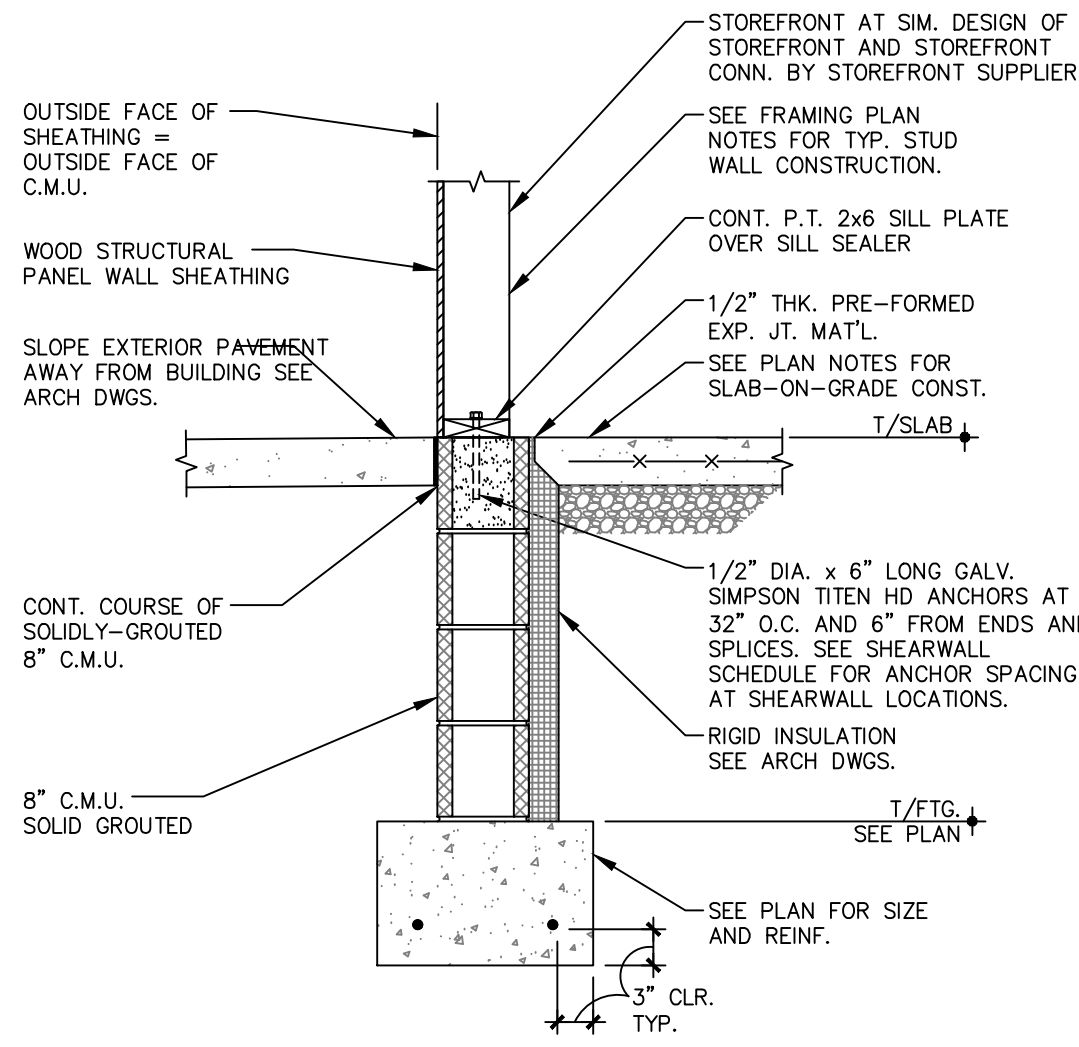
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CONSULTING STRUCTURAL ENGINEER
6617 RED BUD ROAD
FORT WORTH, TX 76135
PHONE: 817-307-6266
FAX: 817-239-1520
PL PROJECT-2308020

Drawn	Checked
Scale	Date JUNE 2023
Project No. C22-129	Drawing No. S1.1

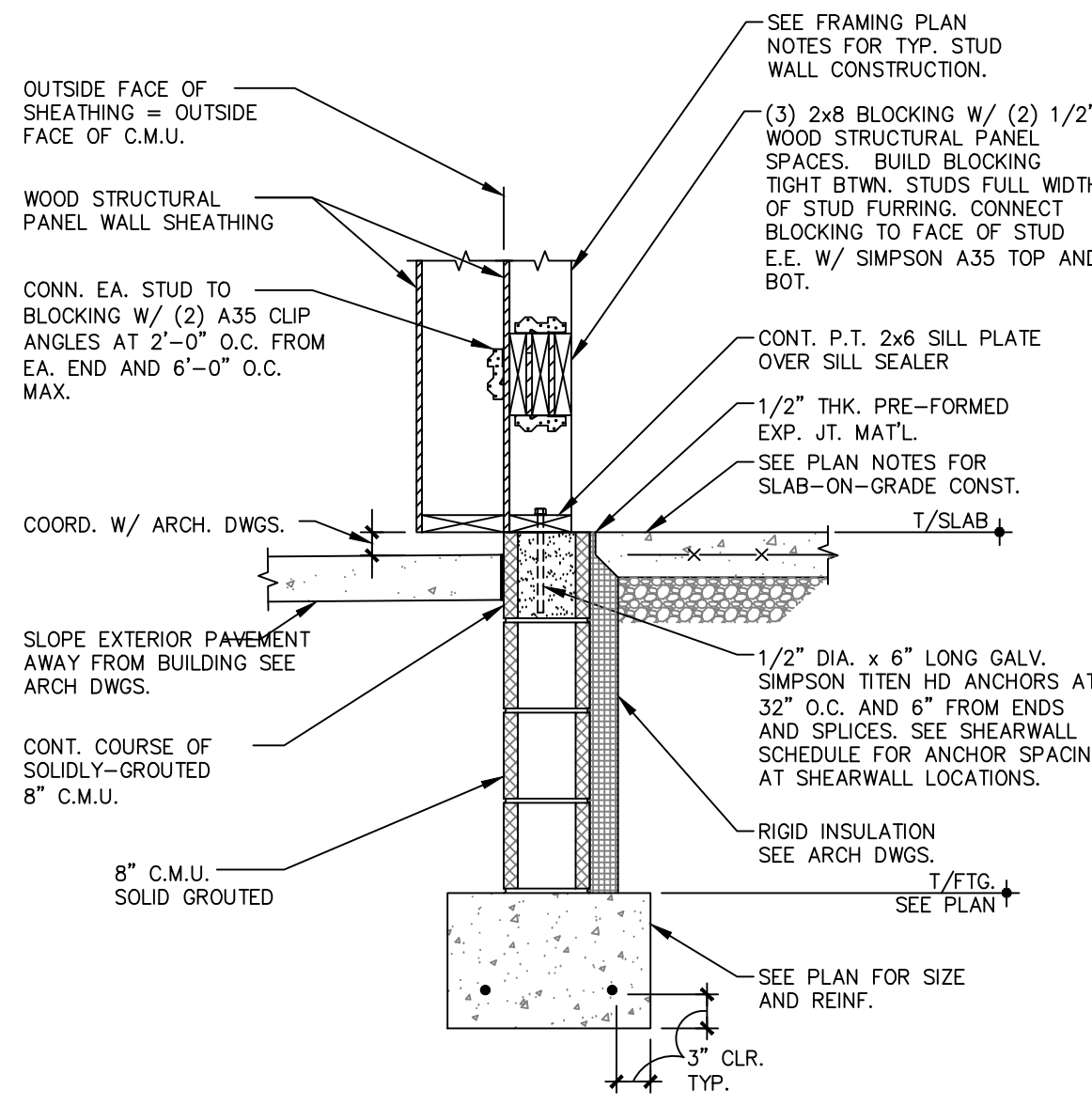
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC CAMERON, NC (AUG 16, 2023) STORE NO. C22-129



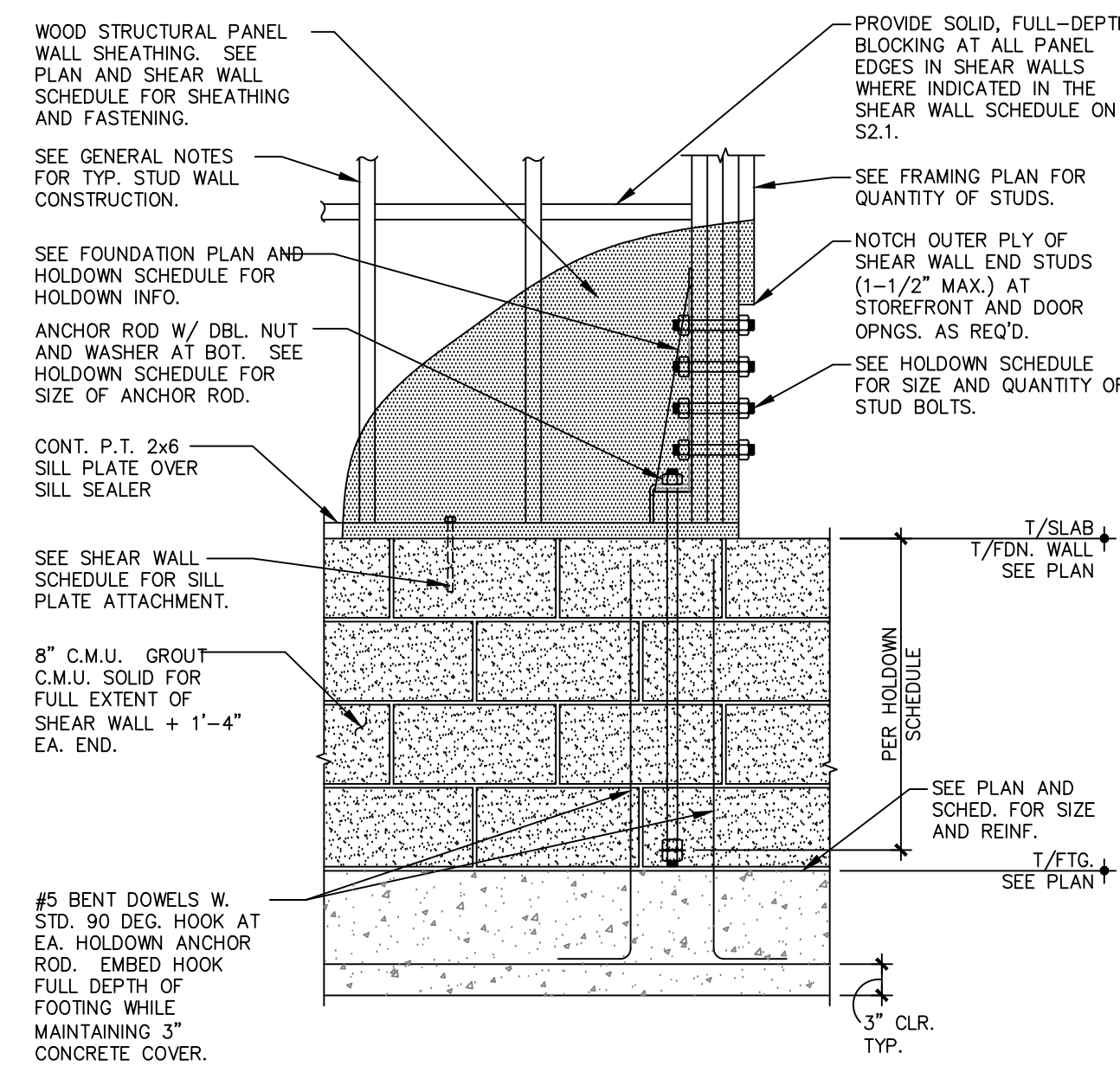
1 DETAIL AT DOOR
3/4" = 1'-0"



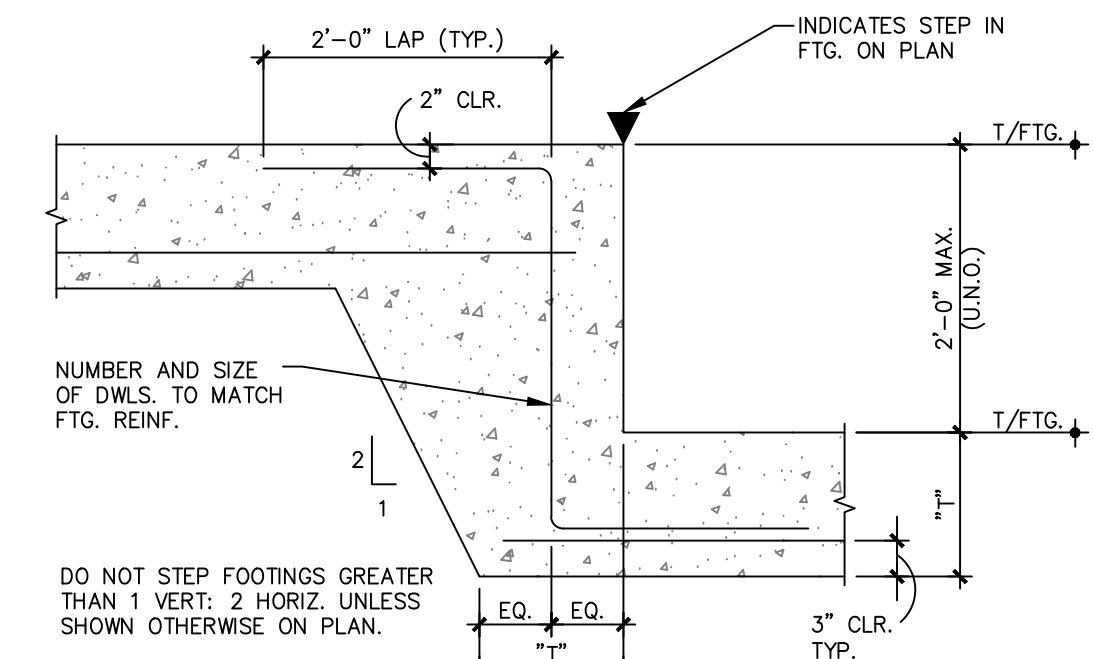
2 TYPICAL DETAIL
3/4" = 1'-0"



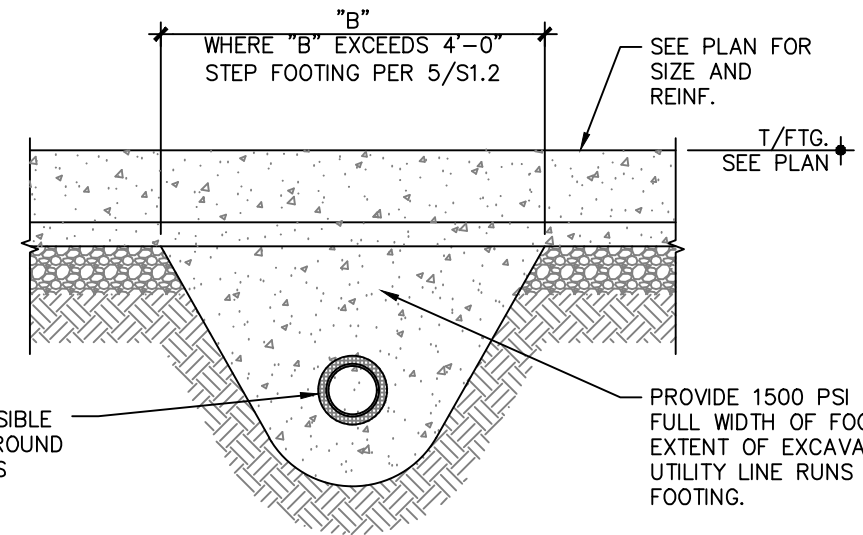
3 TYPICAL DETAIL AT FEATURE WALL
3/4" = 1'-0"



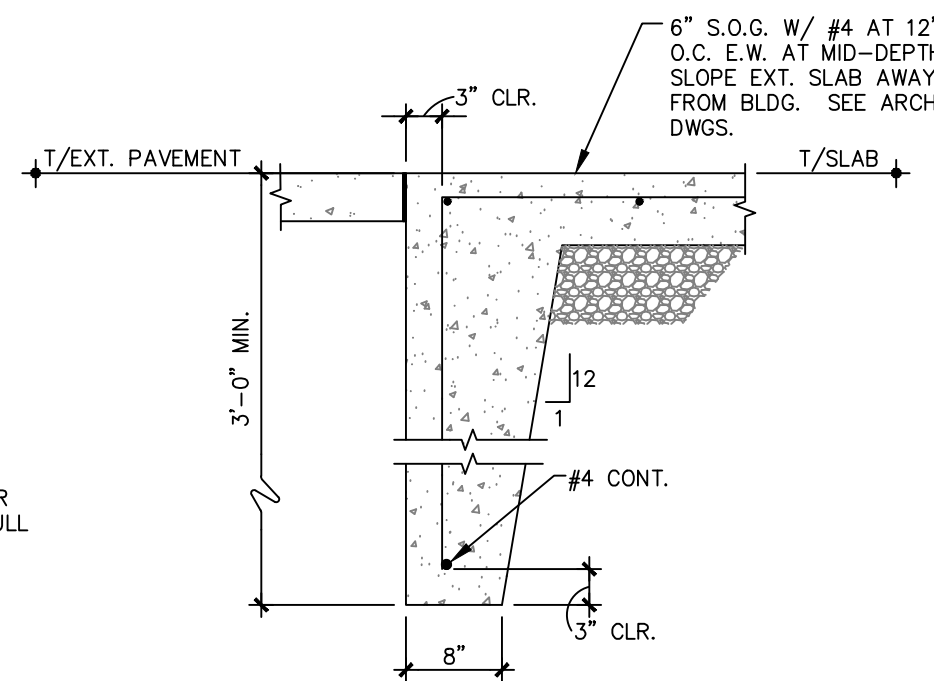
4 TYPICAL SHEAR WALL DETAIL
3/4" = 1'-0"



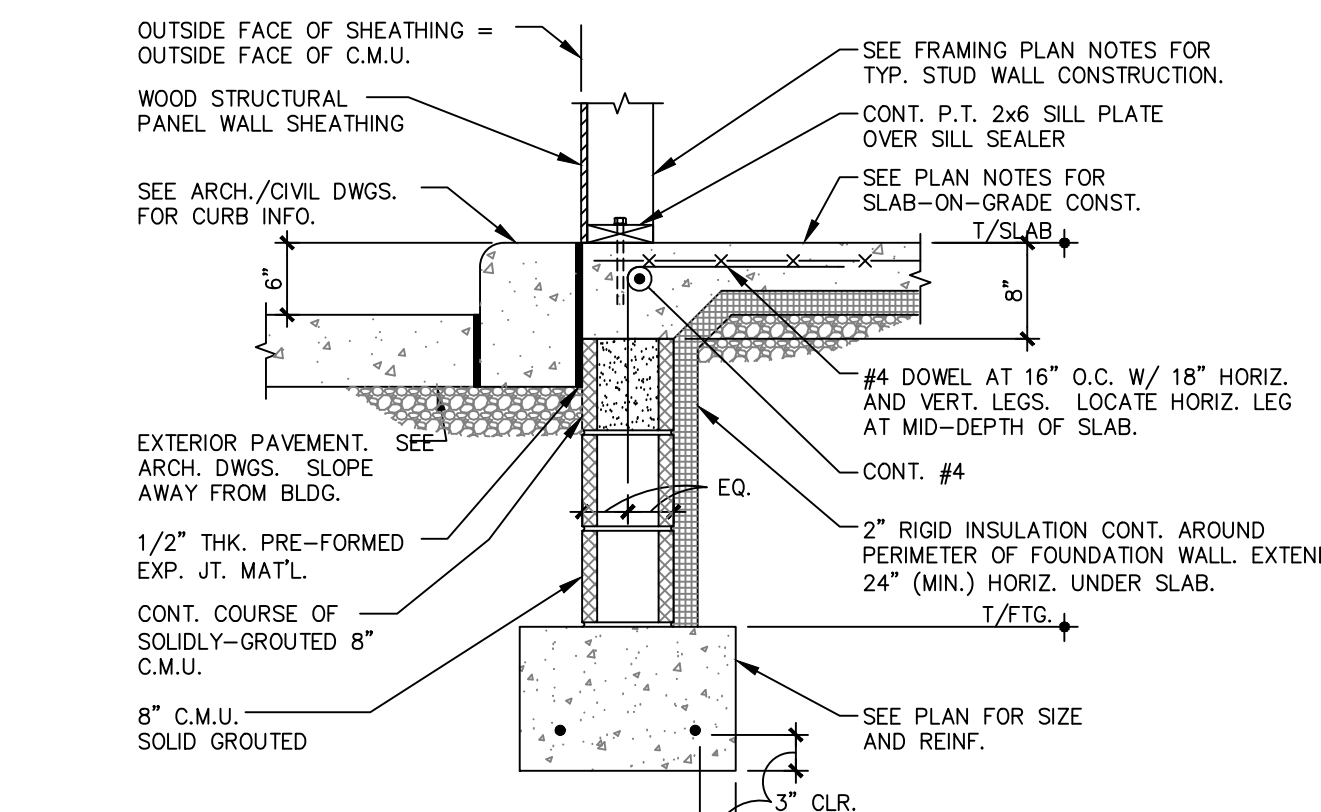
5 TYP. FOOTING STEP
N.T.S.



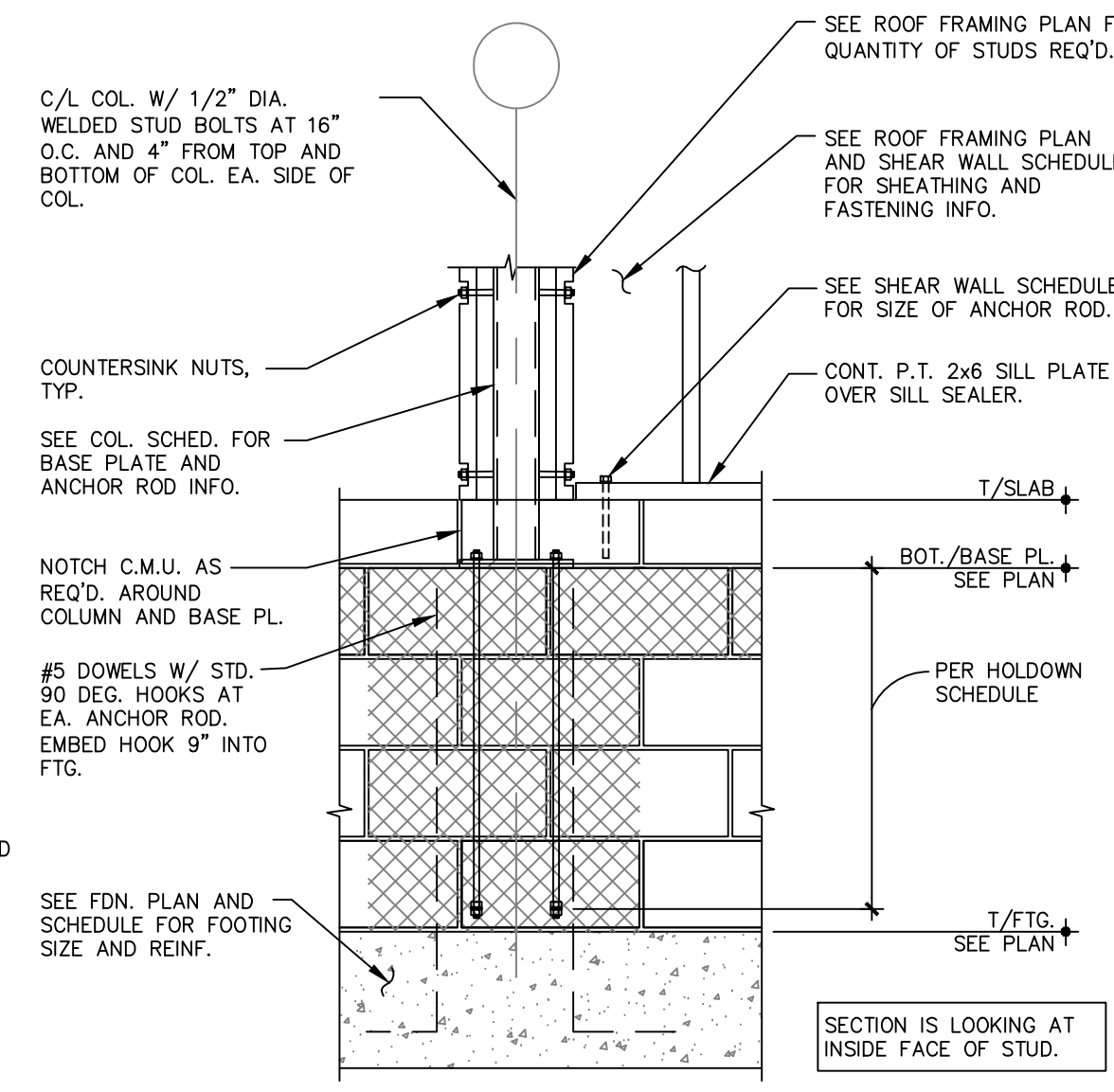
6 TYPICAL BACKFILL DETAIL BELOW WALL FOOTINGS AT UTILITY LINES
1/2" = 1'-0"



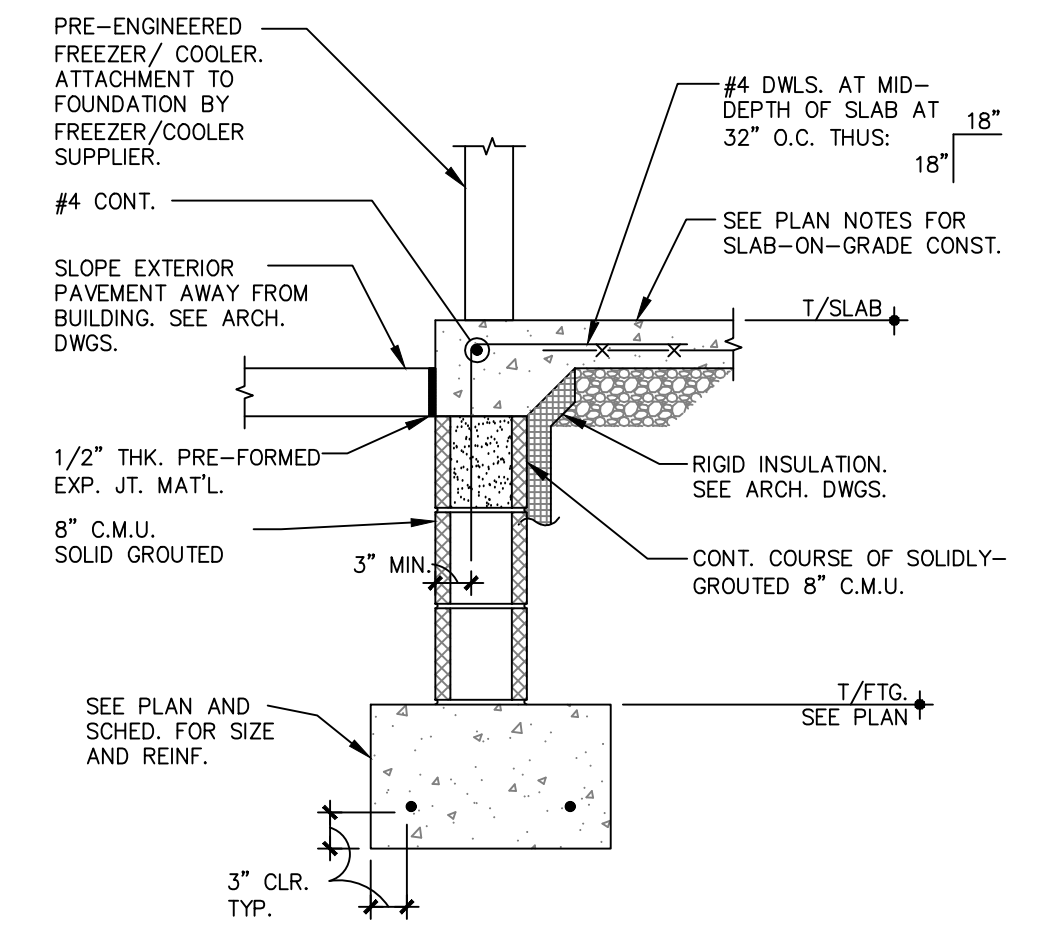
7 DETAIL AT FROST SLAB
3/4" = 1'-0"



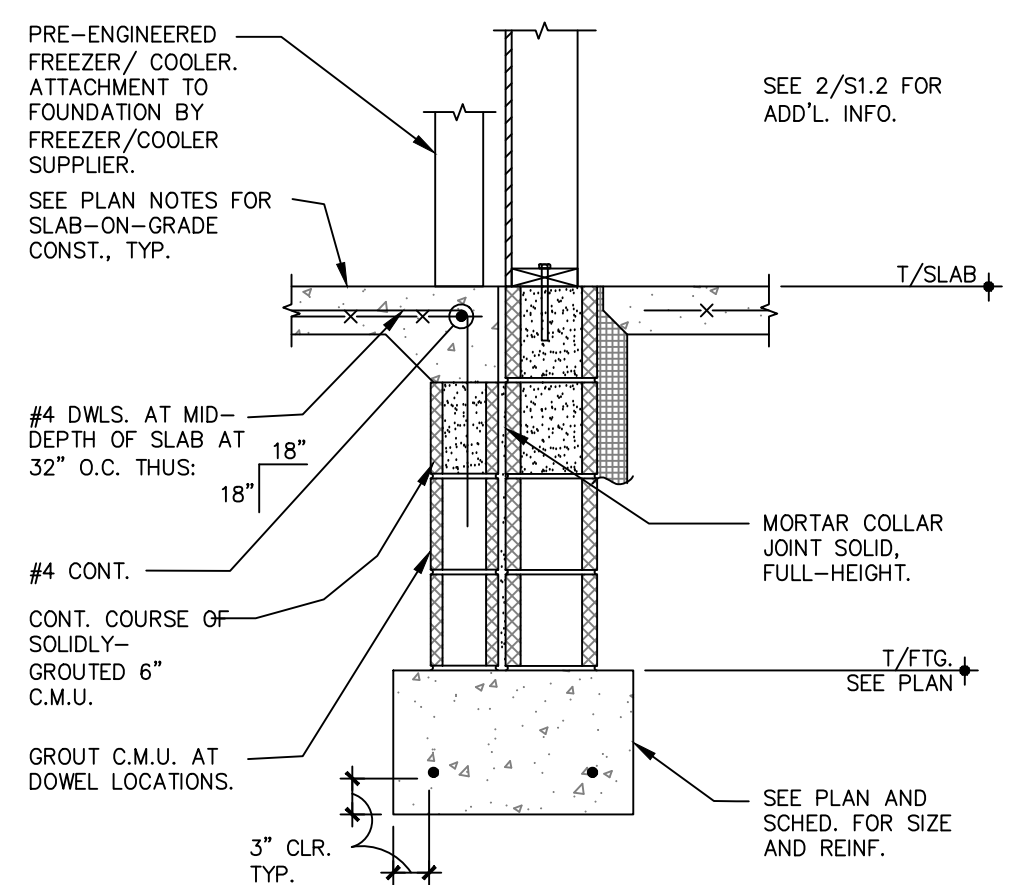
8 DETAIL AT DRIVE-THRU
3/4" = 1'-0"



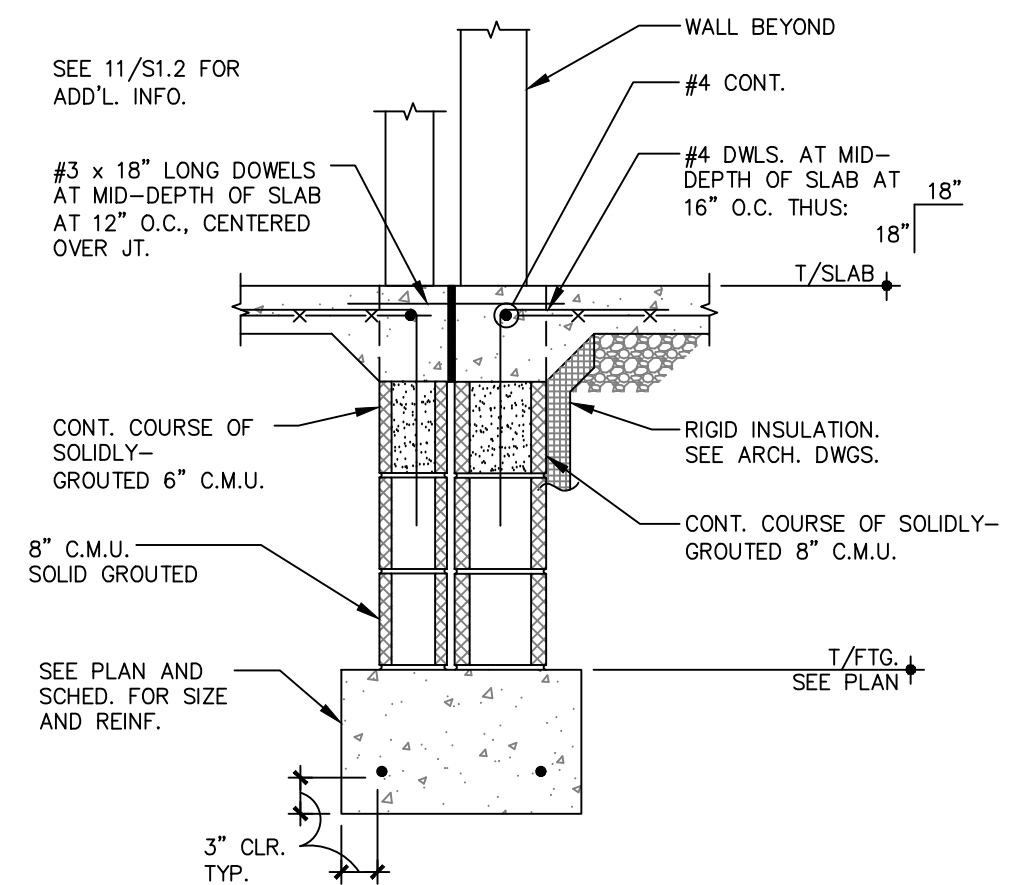
9 SECTION
3/4" = 1'-0"



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



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



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

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PROJECT NORTH

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Project

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

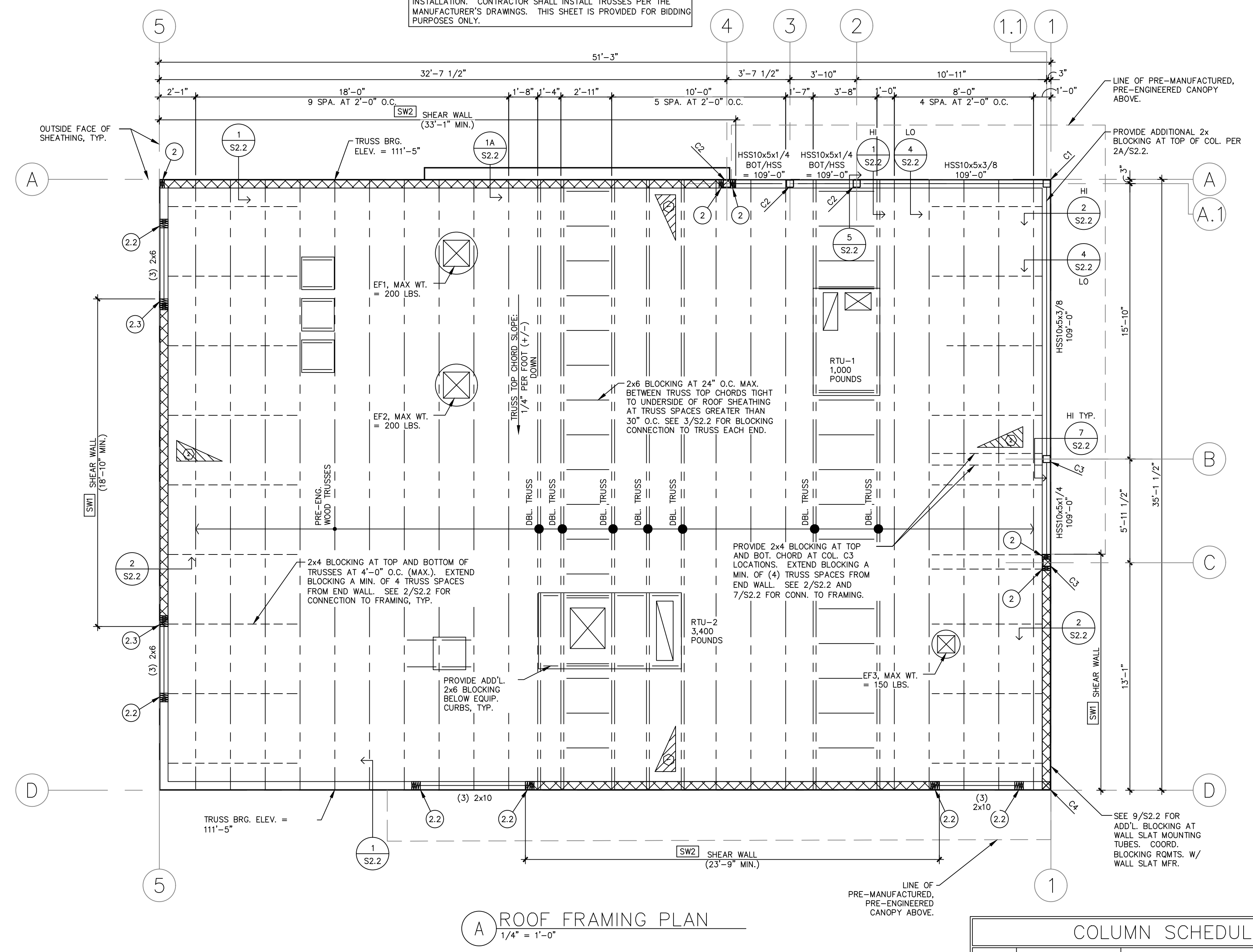
Drawing Title
STRUCTURAL
FOUNDATION SECTIONS

Drawn	Checked
Scale	Date
Project No.	Drawing No.
C22-129	S1.2

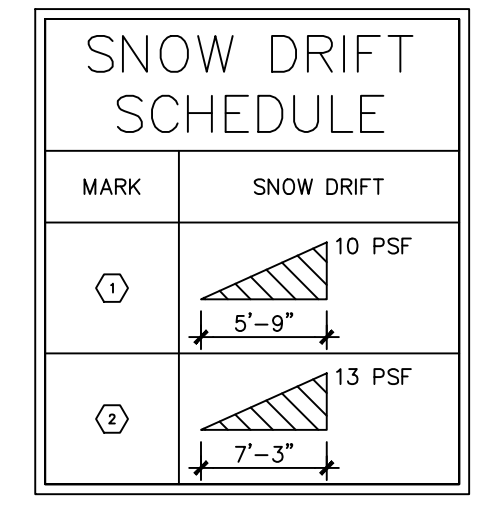
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PHONE: 817-307-8266
FAX: 817-238-1520
PLPROJECT-2308020

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC CAMERON, NC (AUG 16, 2022) STORE NO. C22-129

NOTE: TRUSS MANUFACTURER VERIFY TRUSS LAYOUT AND PROVIDE ENGINEERED SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED ENGINEER REGISTERED IN THE STATE OF THE PROJECT PRIOR TO INSTALLATION. CONTRACTOR SHALL INSTALL TRUSSES PER THE MANUFACTURER'S DRAWINGS. THIS SHEET IS PROVIDED FOR BIDDING PURPOSES ONLY.



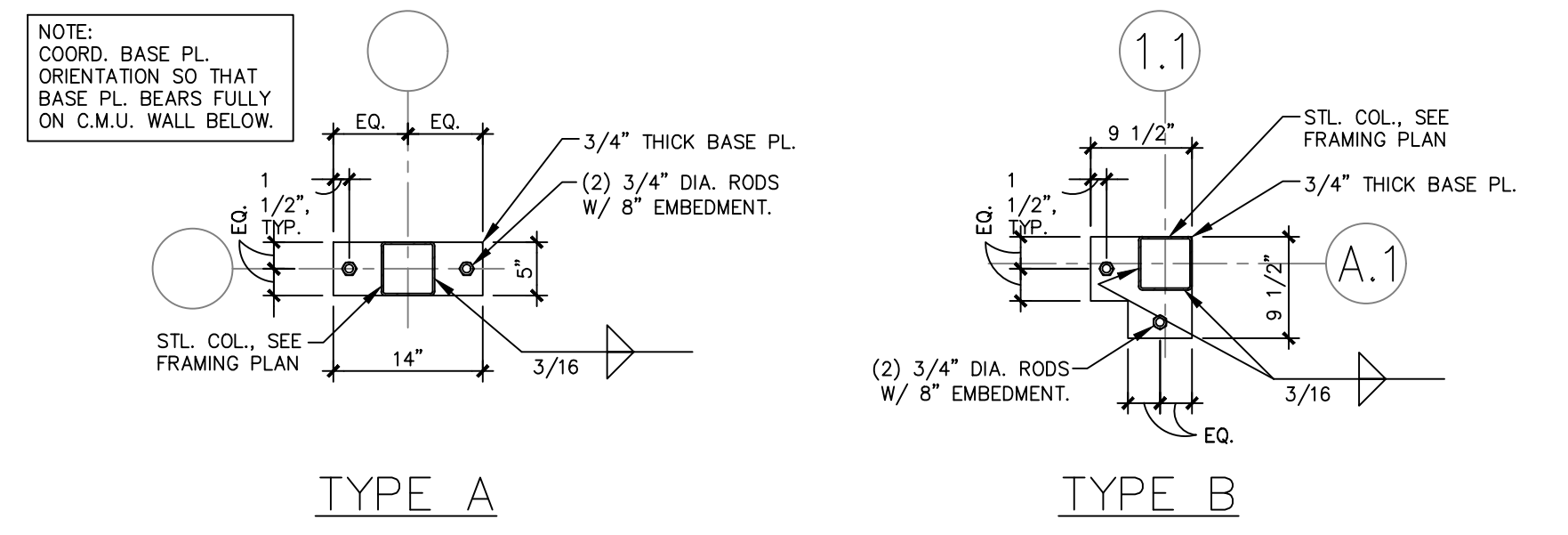
A ROOF FRAMING PLAN
1/4" = 1'-0"



COLUMN SCHEDULE		
MARK	SIZE	COMMENTS
C1	HSS5x5x1/4	TOP OF COL. CAP. PL. = 11'-2". SEE 6/S2.2 FOR SIM. TOP OF COL. CONN. EXTEND 2x TOP PLATES FLUSH TO OUTER FACE OF HSS (PLAN EAST DIRECTION.) SEE DETAIL 3 (TYPE B) THIS SHEET FOR BASE PL.
C2	HSS5x5x1/4	TOP OF COL. CAP. PL. = 11'-2". SEE 6/S2.2 FOR TOP OF COL. CONNECTION. SEE DETAIL 3 (TYPE A) THIS SHEET FOR BASE PL.
C3	HSS5x5x1/4	TERMINATE TOP OF COL. 6" +/- ABOVE T/TRUSS. G.C. COORD. W/ ARCH. DWGS. AND TRUSS SHOP DWGS. TIE INTO STUD FRAMING PER 2/S2.2 SIM. AND 7/S2.2. SEE DETAIL 3 (TYPE A) THIS SHEET FOR BASE PL.
C4	6x6	TOP OF COL. = TOP OF TRUSS, SEE 2/S2.2 AND ARCH. DWGS.

SHEAR WALL SCHEDULE							
MARK	SHEATHING APPLICATION	SHEATHING TYPE AND THICKNESS	PANEL EDGES	FASTENER	NAIL SPACING EDGES FIELD	DESIGN CAPACITY (WIND - ALLOWABLE)	BOTTOM PLATE FASTENING
SW1	ONE SIDE	15/32" APA RATED SHEATHING	BLOCKED	10d	4" 12"	593 PLF	1/2" DIA. x 6" LONG GALV. SIMPSON TITEN HD ANCHORS AT 12" O.C. AND 6" FROM ENDS AND SPLICES.
SW2	ONE SIDE	15/32" APA RATED SHEATHING	UNBLOCKED	10d	6" 12"	240 PLF	1/2" DIA. x 6" LONG GALV. SIMPSON TITEN HD ANCHORS AT 24" O.C. AND 6" FROM ENDS AND SPLICES.

1. WHERE SHEATHING IS ONE SIDE ONLY, APPLY SHEATHING TO FACE OF WALL BY SYMBOL.
2. LOCATE ALL PANEL EDGES ON STUDS, FULL-DEPTH BLOCKING OR TOP/BOTTOM PLATES.
3. PROVIDE HOLDDOWNS AND MULTIPLE STUDS AT ENDS OF SHEAR WALLS PER CODED NOTES AND SECTION 4/51.2.



3 BASE PLATE DETAILS
N.T.S.

- ### GENERAL NOTES
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - (X) "X" INDICATES NUMBER OF BEARINGS STUDS REQUIRED FOR BEAM END SUPPORT AND SHEAR WALLS, TYPICAL UNLESS NOTED OTHERWISE.
(XY) "X" INDICATES NUMBER OF JACK BEARING STUDS REQUIRED FOR HEADER SUPPORT.
(Y) "Y" INDICATES NUMBER OF FULL-HEIGHT KING STUDS REQUIRED FOR HEADER SUPPORT.
 - WOOD STRUCTURAL PANEL ROOF SHEATHING TO BE 5/8" (NOMINAL) APA RATED SHEATHING, 40/20, EXPOSURE 1. FASTEN SHEATHING TO FRAMING WITH 10d COMMON NAILS SPACED AT 6" O.C. AT ALL PANEL EDGES AND SPACED AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS. INSTALL LONG DIMENSION OF ROOF SHEATHING PANELS PERPENDICULAR TO SPAN OF ROOF TRUSSES. STAGGER PANEL END JOINTS A MINIMUM OF (1) TRUSS SPACE.
 - FRAME ALL EXTERIOR STUD WALLS WITH 2x6 AT 16" O.C.
 - ALL WOOD FRAMING TO BE SPF No. 1/No. 2 GRADE.
 - MAXIMUM DEFLECTION OF ROOF FRAMING UNDER TOTAL LOAD SHALL NOT EXCEED L/180 OF THE SPAN; DEFLECTION SHALL NOT EXCEED 1/240 OF THE SPAN UNDER LIVE LOAD.
 - SAWN LUMBER SHALL CONFORM TO AMERICAN SOFTWOOD STANDARD PS20 (EDITION LISTED IN APPLICABLE BUILDING CODE).
 - ROOF TRUSS SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR DESIGN AND LICENSED TO PRACTICE IN STATE OF THIS PROJECT.
 - HOIST TRUSSES INTO POSITION IN ACCORDANCE WITH DESIGN DRAWINGS.
 - PROVIDE TEMPORARY HORIZONTAL AND CROSS BRACINGS TO HOLD TRUSSES PLUMB AND IN SAFE CONDITION UNTIL PERMANENT BRACING IS INSTALLED.
 - INSTALL PERMANENT BRACING AND RELATED COMPONENTS PRIOR TO APPLICATION OF LOADS TO TRUSSES.
 - DO NOT CUT OR REMOVE ANY TRUSS MEMBER.
 - EACH TRUSS TO BE ANCHORED TO WOOD PLATES AND SHEATHING WITH TENSION ANCHORS BY SIMPSON OR EQUAL.
 - FASTEN BUILT-UP WOOD POSTS AND BEAMS TOGETHER WITH 10d NAILS, PER TWO PILES, SPACED NOT MORE THAN 12" O.C. OR 3/8" DIAMETER BOLTS FITTED WITH WASHERS AND SPACED NOT MORE THAN 18" O.C.
 - WOOD STRUCTURAL PANEL WALL SHEATHING TO BE 15/32" (1/2" NOMINAL) APA RATED SHEATHING, 32/16, EXPOSURE 1. FASTEN SHEATHING TO FRAMING WITH 10d NAILS SPACED AT 6" O.C. AT ALL PANEL EDGES AND SPACED AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
 - REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND DRAINAGE.
 - MAINTAIN MINIMUM CLEARANCE AROUND EXHAUST FAN OPENINGS. ADJUST TRUSS SPACING TO SUIT.
 - SEE 8/S2.2 FOR TYPICAL SUSPENDED LOAD DETAIL.

- ### DESIGN CRITERIA
- A. FLOOR LIVE LOADS (SLAB-ON-GRADE): 125 PSF
 - B. ROOF LIVE LOAD (MINIMUM): 25 PSF
 - C. ROOF SNOW LOAD:
 - GROUND SNOW LOAD (Pg): 10 PSF
 - FLAT-ROOF SNOW LOAD (Pf): 7.0 PSF PLUS DRIFTING PER ASCE 7
 - SNOW EXPOSURE FACTOR (Ce): 1.0
 - SNOW LOAD IMPORTANCE FACTOR (Ci): 1.0
 - THERMAL FACTOR: 1.0
 - D. WIND LOADING:
 - BASIC WIND SPEED, V₅₀ @ V_{ult}: 92 MPH/118 MPH
 - WIND IMPORTANCE FACTOR: 1.0
 - RISK CATEGORY: II
 - WIND EXPOSURE CATEGORY: C
 - INTERNAL PRESSURE COEFFICIENT: +0.18, -0.18
 - COMPONENTS AND CLADDING (PRESSURES INDICATED ARE EDGE ZONE (BUILDING CORNER) SERVICE LEVEL PRESSURES BASED ON A MINIMAL EFFECTIVE AREA AND MAY BE REDUCED ACCORDINGLY FOR INTERIOR ZONES AND LARGER EFFECTIVE AREAS):
 - a. ROOF: 17.0 PSF, -29.0 PSF
 - b. WALLS: 17.0 PSF, -23.0 PSF
 - E. SEISMIC DESIGN CRITERIA
 - SEISMIC IMPORTANCE FACTOR: 1.0
 - RISK CATEGORY: II
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 - a. SHORT PERIODS: 0.07
 - b. 1 SECOND PERIOD: 0.148
 - SITE CLASS: D (ASSUMED)
 - SPECTRAL RESPONSE COEFFICIENTS:
 - a. DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS: 0.157
 - b. DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD: 0.122
 - SEISMIC DESIGN CATEGORY: B
 - BASIC SEISMIC-FORCE-RESISTING-SYSTEM: LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANEL RATED FOR SHEAR RESISTANCE
 - DESIGN BASE SHEAR: 2.2 KIPS
 - SEISMIC RESPONSE COEFFICIENT, C_s: 0.02
 - RESPONSE MODIFICATION FACTOR, R: 6 1/2
 - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
 - F. SPECIAL LOADS
 - INTERIOR PARTITIONS: 5 PSF
 - GUARDRAILS: 50 PLF / 200 POUNDS
 - G. FROST DEPTH (BELOW GRADE): 36 INCHES
 - H. SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, f_m = 2,000 PSI

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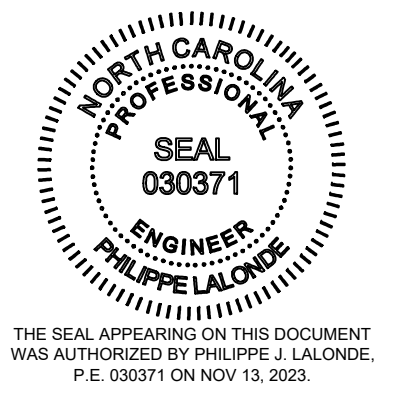
DRAWINGS REVISED AS PER DESIGN BULLETIN		
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Project

POPEYES

Store Type: US 2112 PROTOTYPE 2112-21

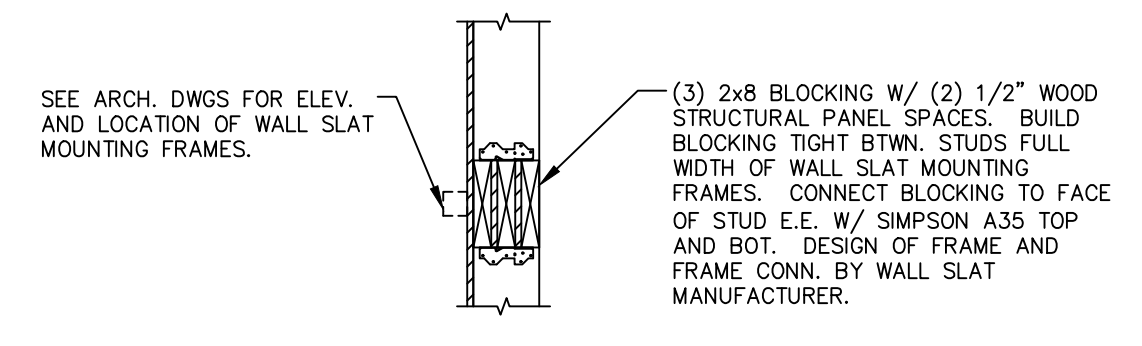
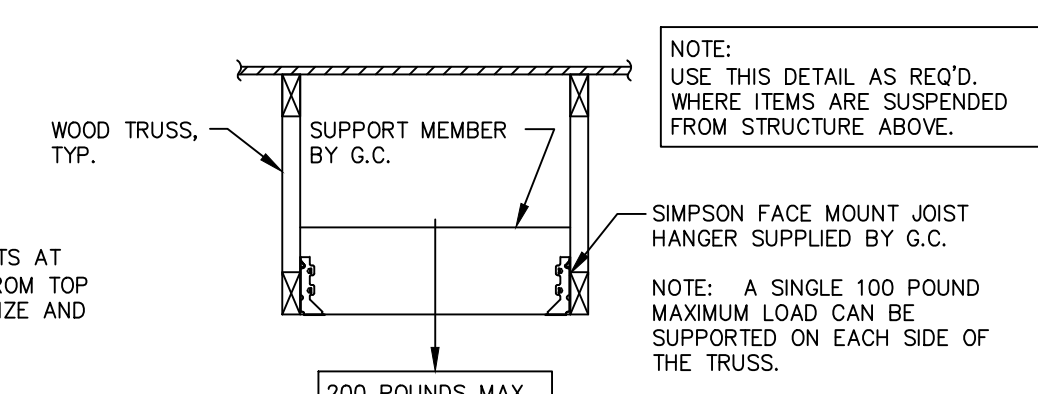
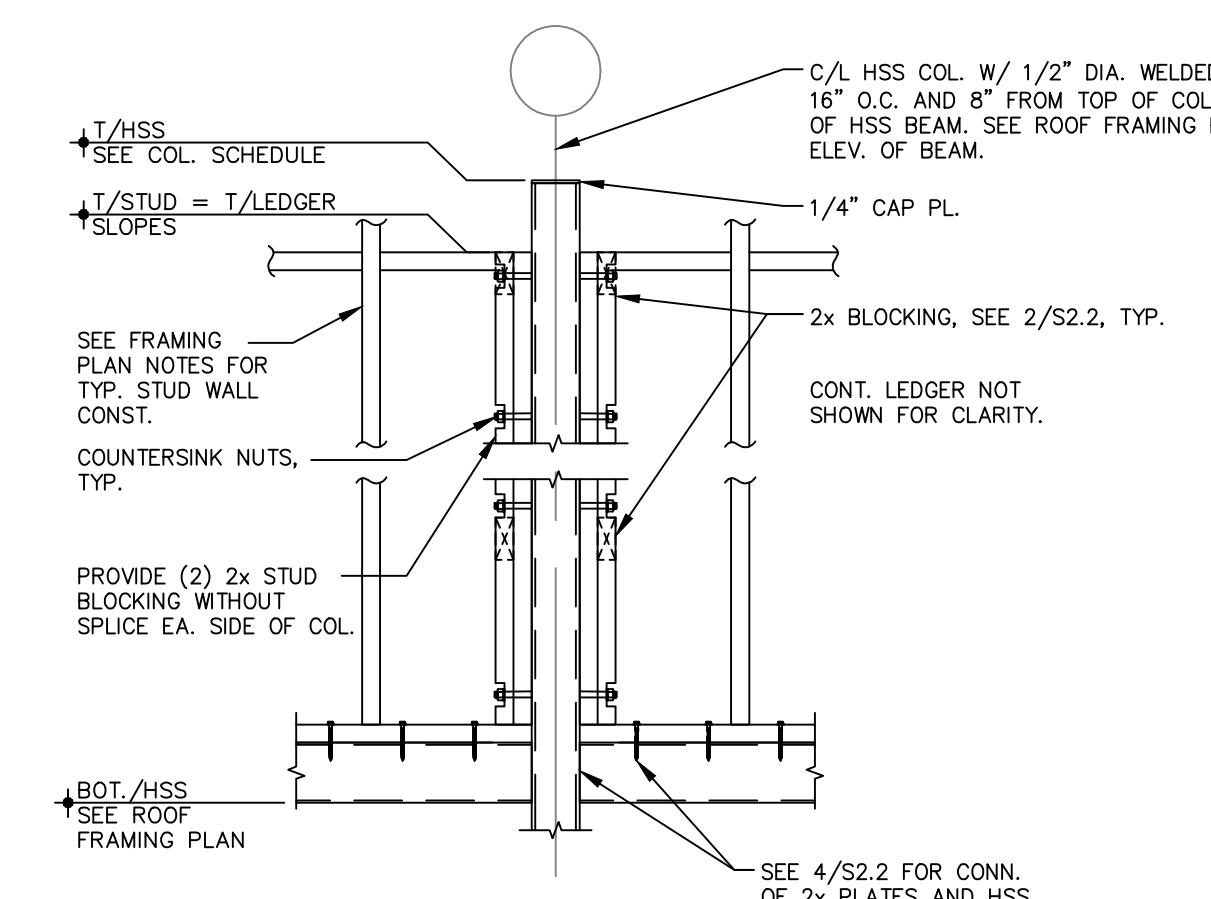
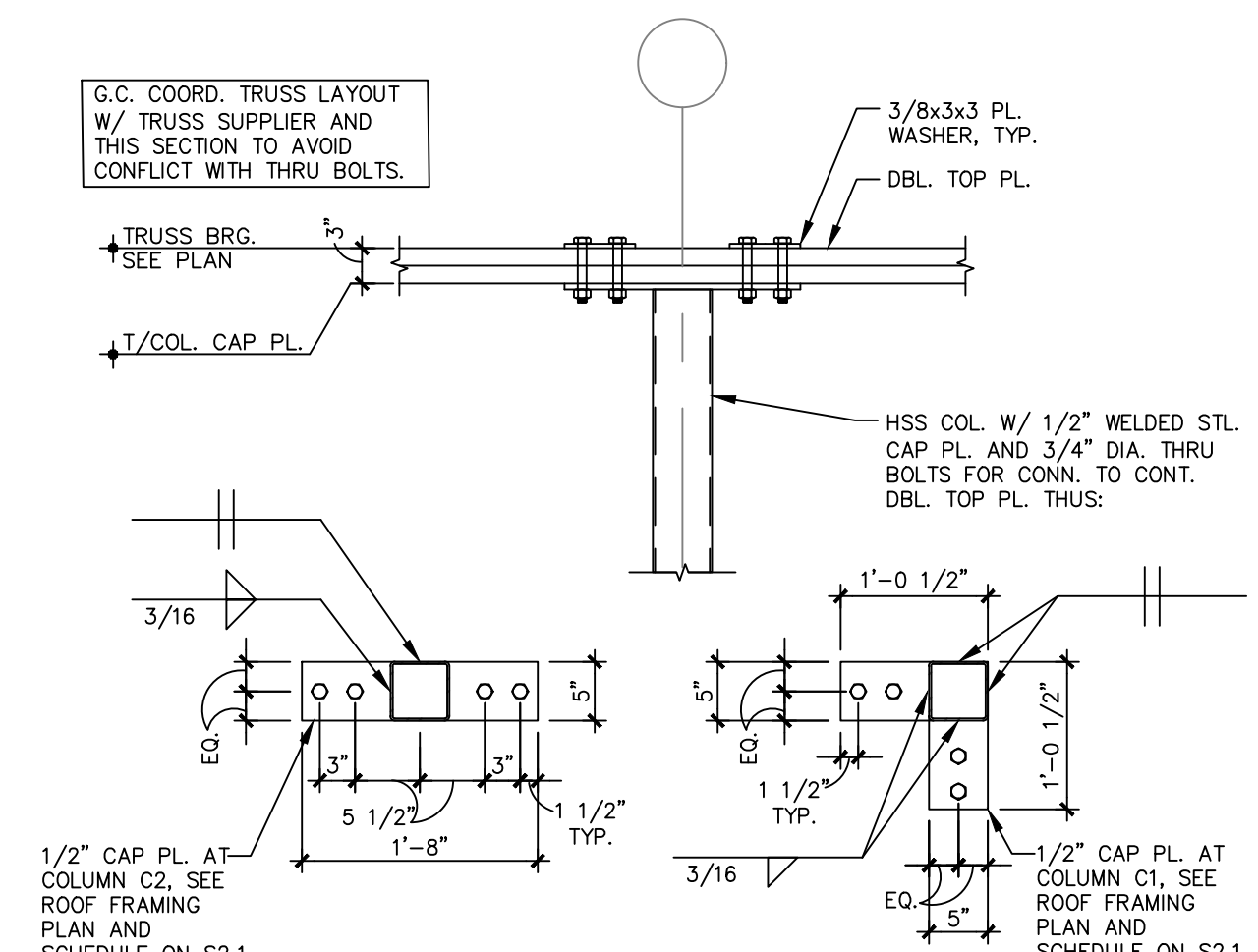
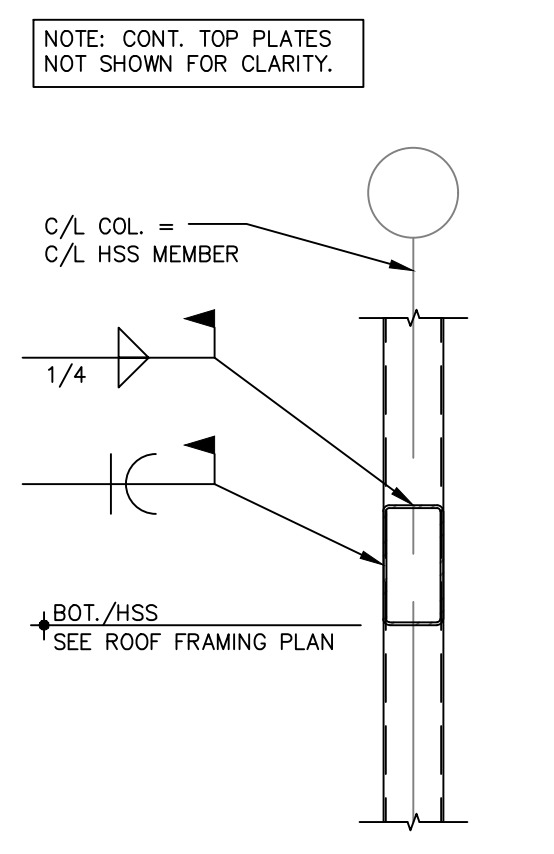
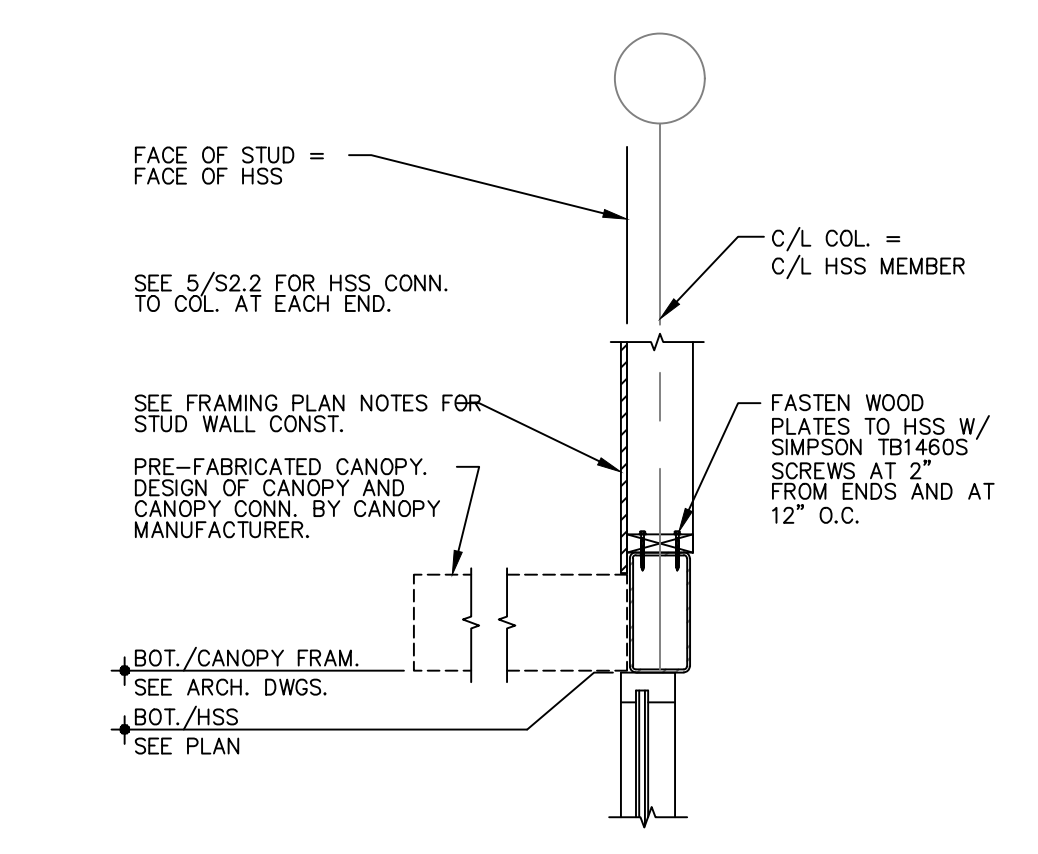
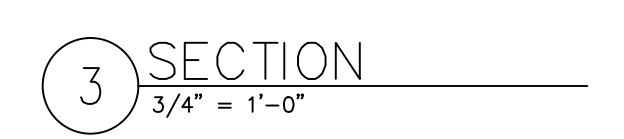
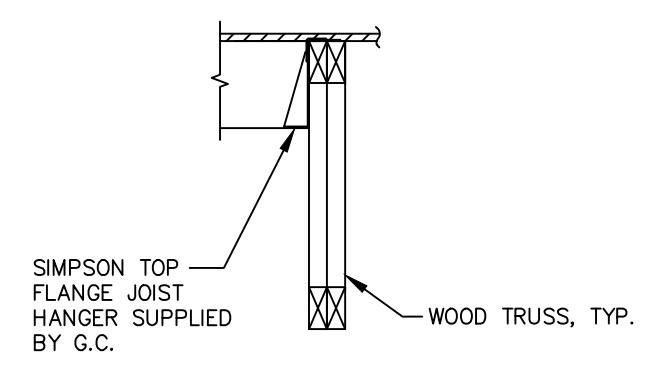
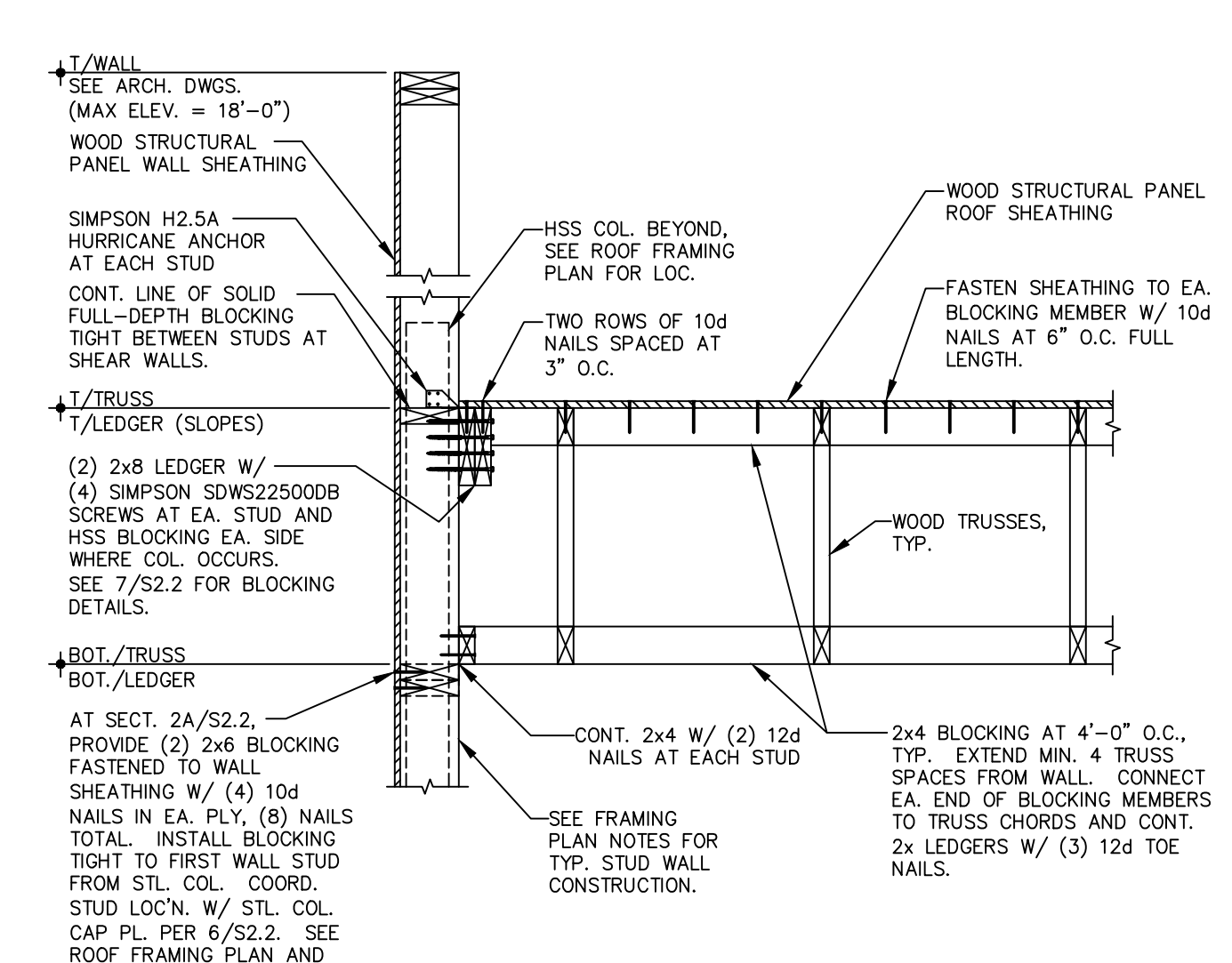
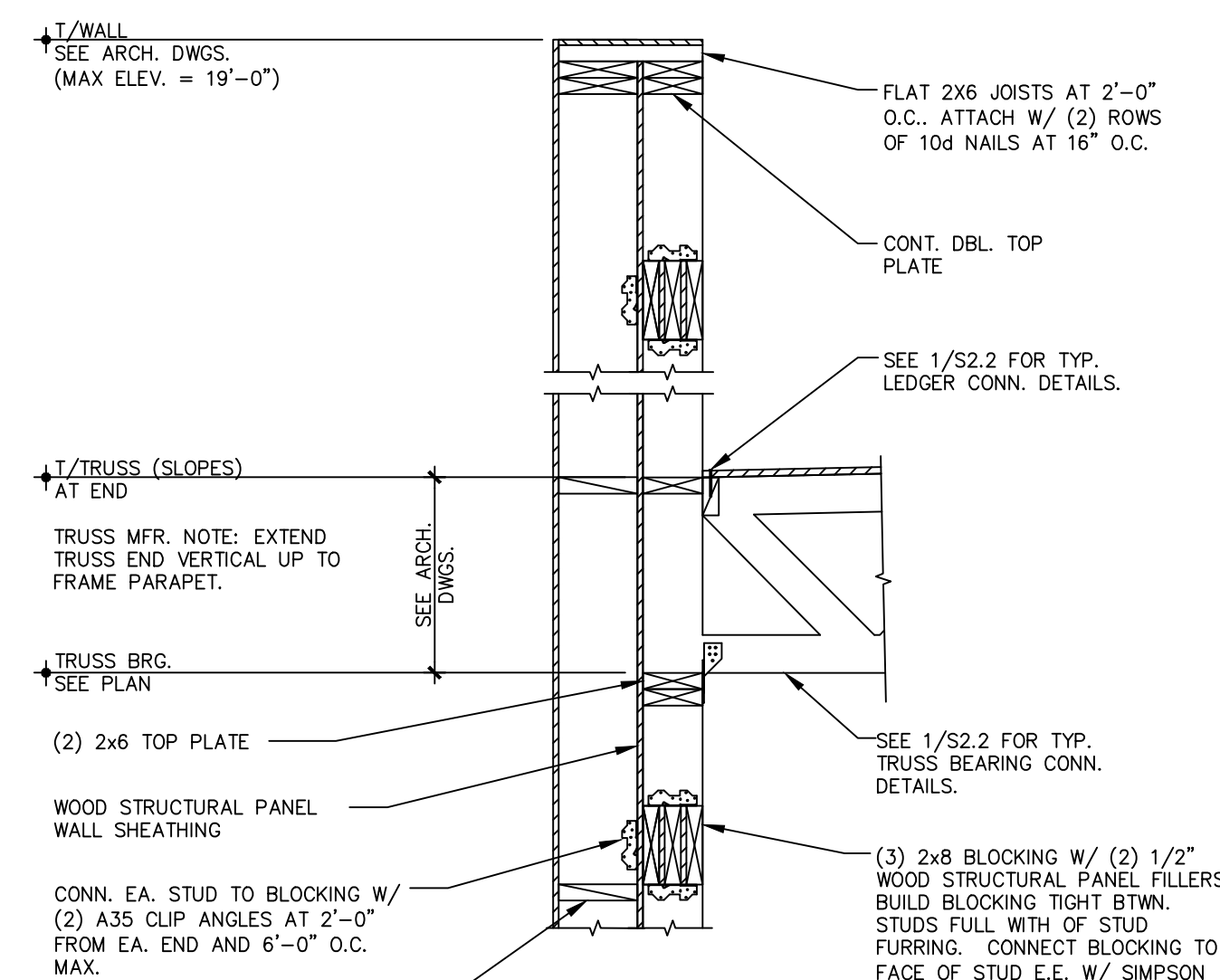
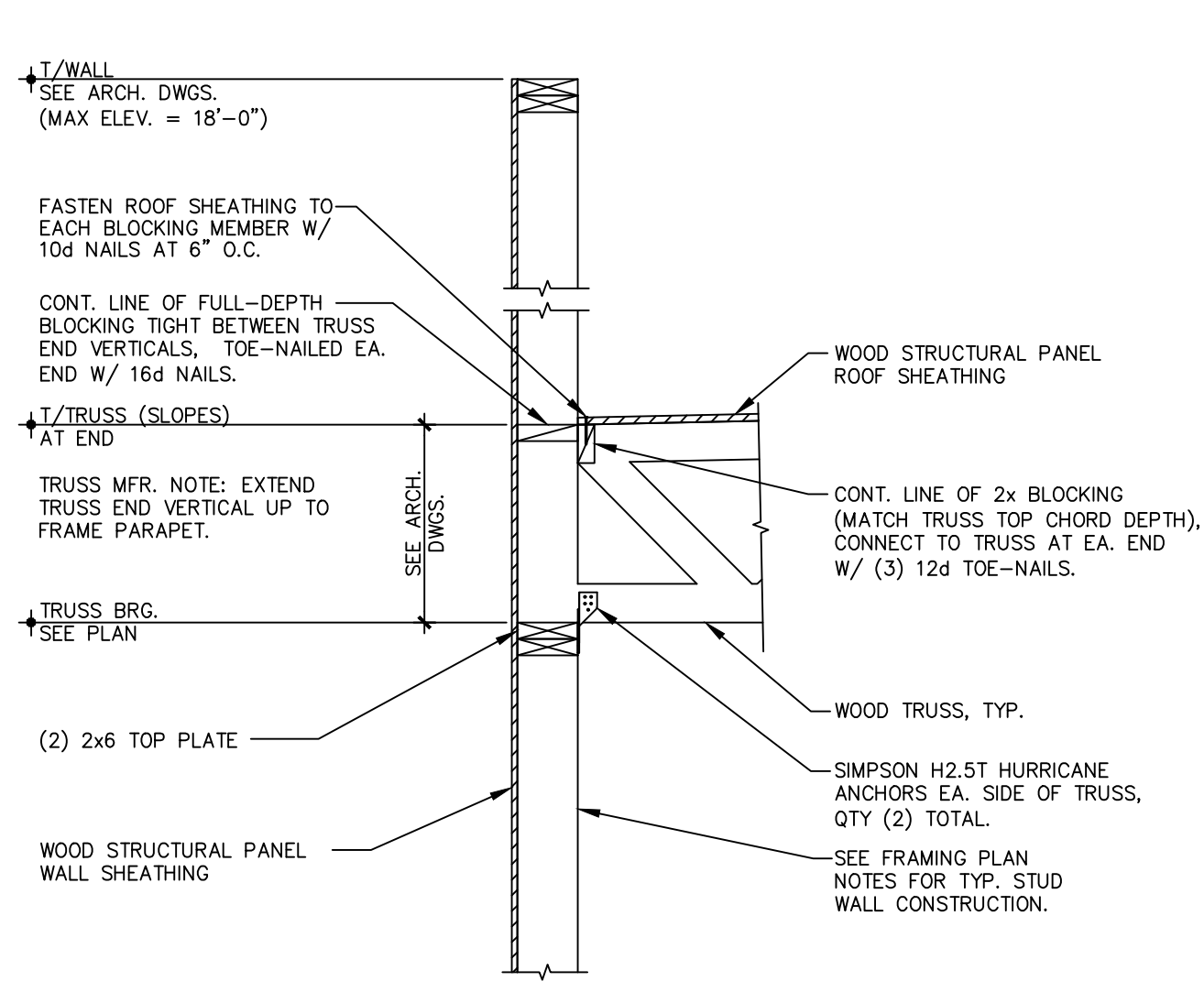
Location: 1517 NC 24-87 CAMERON, NC

Drawing Title	
FRAMING PLAN	
Drawn	Checked
Scale	Date
	JUNE 2023
Project No.	Drawing No.
C22-129	S2.1

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POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC CAMERON, NC (AUG 16, 2023) STORE NO. C22-129



ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

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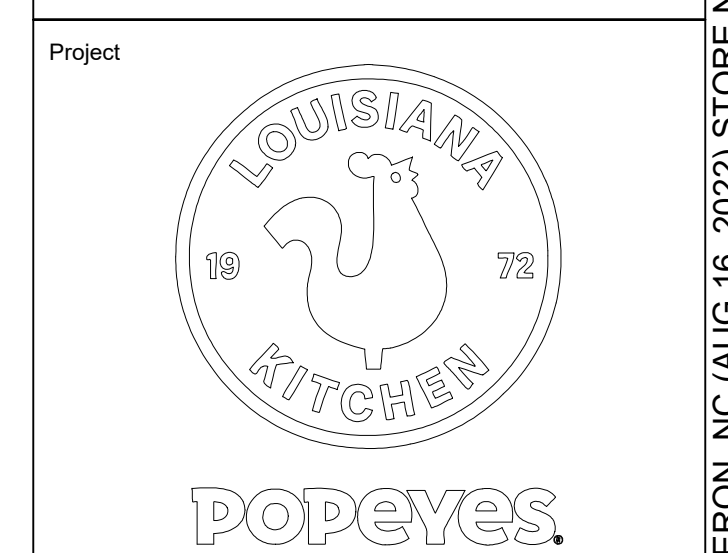


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Store Type
 US 2112 PROTOTYPE
 2112-21

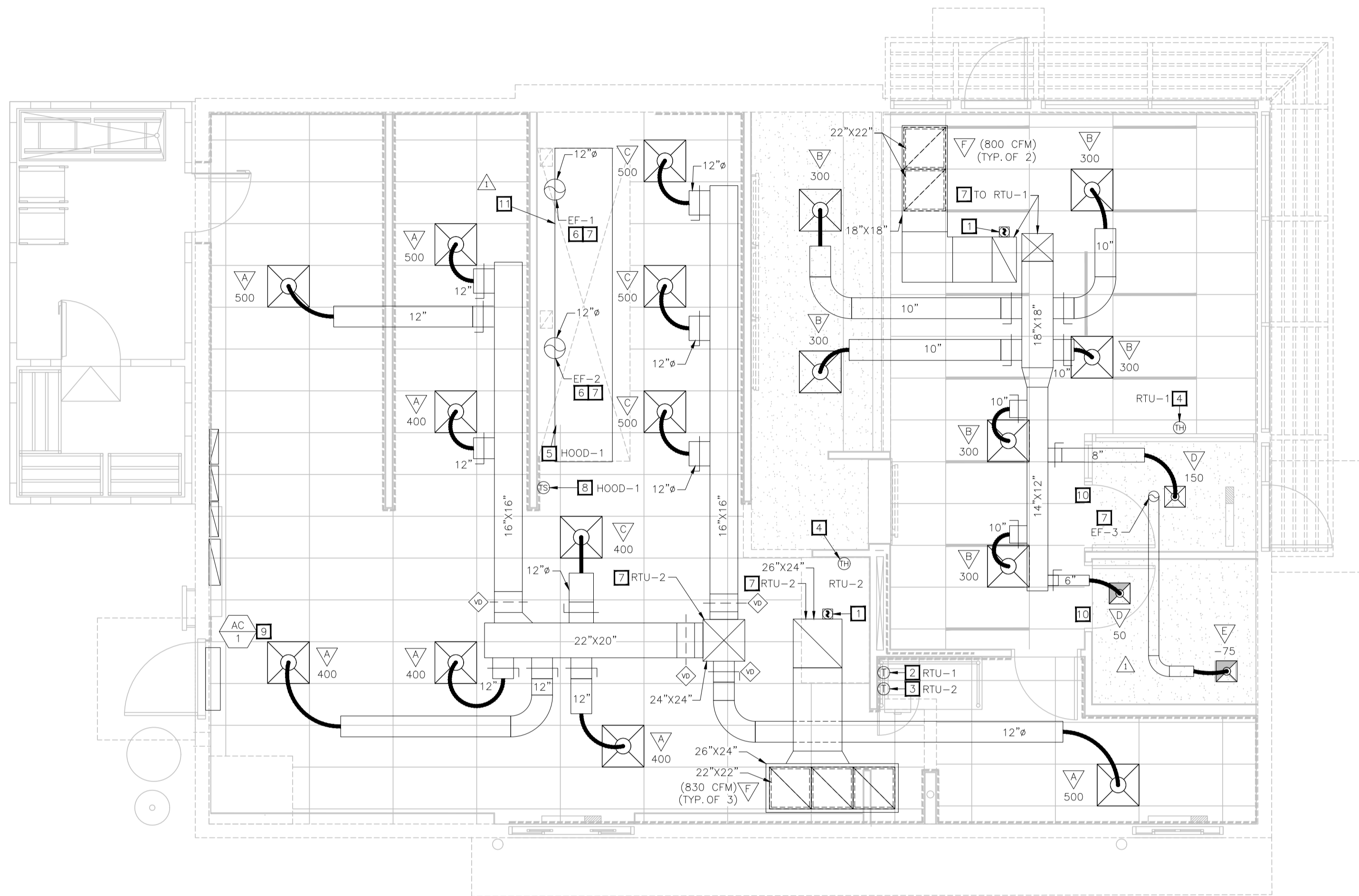
Location
 1517 NC 24-87
 CAMERON, NC

Drawing Title
STRUCTURAL FRAMING SECTIONS

Drawn	Checked
Scale	Date JUNE 2023
Project No. C22-129	Drawing No. S2.2

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POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC CAMERON, NC (AUG 16, 2023) STORE NO. C22-129



01 MECHANICAL PLAN
1/4"=1'-0"

MECHANICAL KEY NOTES

- 1 PROVIDE DUCT MOUNTED SMOKE DETECTOR, TIE IN AUDIO-VISUAL ANNUNCIATOR. UPON DETECTION OF SMOKE, ROOFTOP UNIT SHALL SHUT DOWN AND ACTIVATE ALARM. COORDINATE INSTALLATION LOCATION WITH ACCESS REQUIREMENTS.
- 2 PROVIDE HONEYWELL VISION PRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER AND AUTOMATIC START CAPABILITY. MOUNT THERMOSTAT 48" ABOVE FINISHED FLOOR. COORDINATE FINAL INSTALLATION LOCATION OF THERMOSTAT WITH OWNER'S REPRESENTATIVE.
- 3 PROVIDE MICROPROCESSOR REMOTE INTERFACE. MOUNT MICROPROCESSOR REMOTE INTERFACE 48" ABOVE FINISHED FLOOR. COORDINATE FINAL INSTALLATION LOCATION OF MICROPROCESSOR REMOTE INTERFACE WITH OWNER'S REPRESENTATIVE.
- 4 PROVIDE COMBINATION TEMPERATURE/HUMIDITY SENSOR. MOUNT SENSOR 48" ABOVE FINISHED FLOOR. HUMIDITY SENSOR SHALL OPERATE REFRIGERATION SYSTEM AND INITIATE HOT GAS REHEAT AS REQUIRED TO MAINTAIN SPACE HUMIDITY AT 55% RH.
- 5 INSTALL OWNER FURNISHED TYPE I GREASE EXHAUST HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE TRAPEZE HANGERS FOR ALL THREADED SUPPORT UNDER DUCTWORK AS REQUIRED. REFER TO HOOD DRAWING SET ON SHEET M3.1-M3.4 FOR HOOD SPECIFICATION AND ADDITIONAL INFORMATION.
- 6 INSTALL OWNER FURNISHED UL-2221 LISTED DOUBLE-WALL GREASE DUCT, EQUAL TO FRANKIE SYSTEMS MODEL FRD-2R ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL FROM HOOD COLLAR EXHAUST FAN ON ROOF. INSTALL EXHAUST DUCT PER MANUFACTURER'S INSTRUCTIONS. PROVIDE CLEANOUTS 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.
- 7 DUCT UP TO EQUIPMENT ON ROOF. REFER TO SHEET M1.2 FOR EQUIPMENT LOCATION.
- 8 INSTALL ROOM TEMPERATURE SENSOR FOR HOOD THERMOSTATIC CONTROL. SEE HOOD DRAWING SET ON M3.1-M3.4 FOR HOOD SPECIFICATIONS AND ADDITIONAL INFORMATION.
- 9 PROVIDE AIR CURTAIN. MOUNT UNIT ON WALL DIRECTLY ABOVE DOOR PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 10 UNDERCUT DOOR BY 3/4" FOR AIR TRANSFER
- 11 PULL STATION & TENSION CABLE FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM ACTIVATION TO BE PROVIDED BY FIRE SUPPRESSION SUBCONTRACTOR. GENERAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR JUNCTION BOX AND CONDUIT TO PULL STATION. LINE-SIZED MECHANICAL (OR ELECTRICAL) GAS SHUT OFF VALVE PROVIDED BY HOOD VENDOR. FIRE SUPPRESSION SUBCONTRACTOR SHALL VERIFY APPROVED LOCATION WITH LOCAL AUTHORITY AND COORDINATE THE COMPLETE INSTALLATION WITH ALL OTHER TRADES

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.
- E. SUPPORT NEW MECHANICAL SYSTEMS WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH SEISMIC HAZARD LEVEL 'A' OF THE SEISMIC RESTRAINT MANUAL AS PUBLISHED BY SMACNA, AND IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, LATEST EDITION.

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"	0-70
105-200	8"	75-155
205-395	10"	160-285
400-605	12"	290-465
610-920	14"	470-710
925-1200	16"	715-1015

* DIFFUSER NECK SIZES SHALL MATCH SUPPLY AIR DUCT SIZING.

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PROJECT NORTH

PROJECT NORTH

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10.30.2023

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TEL: 214-343-9800 www.thedimensiongroup.com

Project

Store Type
US 2112 PROTOTYPE
2112-21

Location

1517 NC 24-87
CAMERON, NC

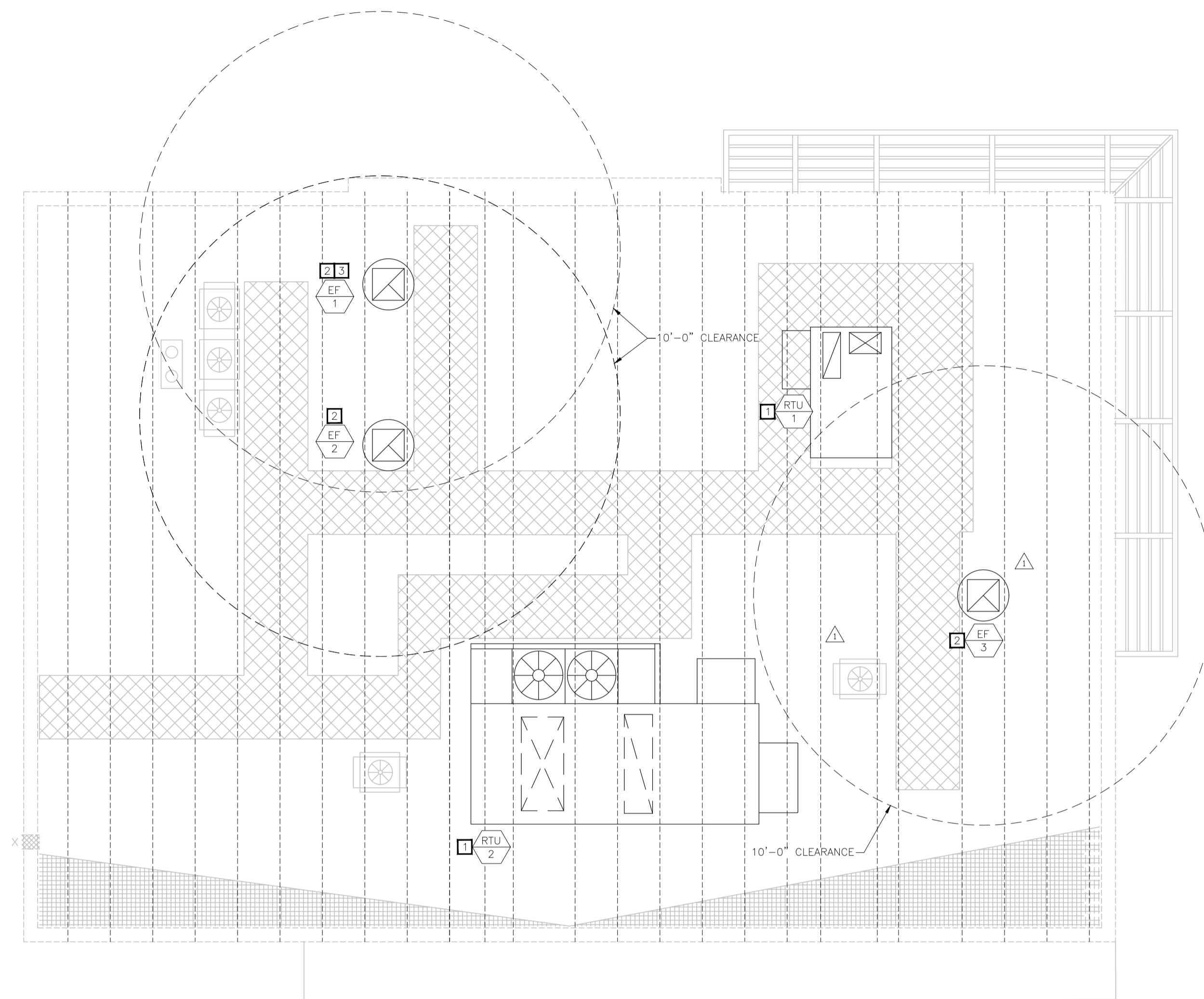
Drawing Title

MECHANICAL PLAN

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	M1.1

Digitally signed by Alhasan PE Lic No. 41082 NC
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E=alhasan@dimensiongrp.com
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POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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 FURNISHED 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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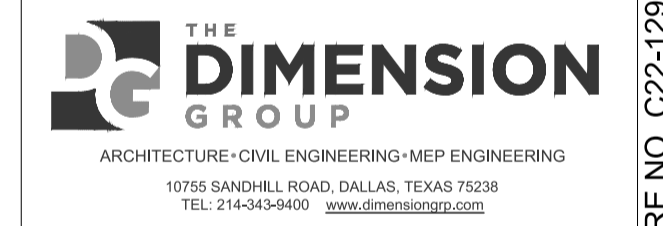
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10.30.2023

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Project



Store Type

US 2112 PROTOTYPE
2112-21

Location

1517 NC 24-87
CAMERON, NC

Drawing Title

MECHANICAL ROOF PLAN

Drawn

NI

Checked

AH

Scale

1/4" = 1'-0"

Date

JUNE 2023

Project No.

C22-129

Drawing No.

M1.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

2018 INTERNATIONAL MECHANICAL CODE - TABLE 403.3.1.1 VENTILATION SUMMARY

OCCUPANCY CATEGORY	PEOPLE OUTDOOR AIR RATE - (Rp) (CFM/PERSON)	AREA OUTDOOR AIR RATE - (Ra) (CFM/SQ.FT.)	OCCUPANCY DENSITY P/1,000 SQ.FT.	OCCUPANCY CLASSIFICATION P/1,000 SQ.FT.	CALCULATED OCCUPANCY DENSITY	ZONE OCCUPANCY OVERRIDE	PEOPLE EXPECTED TO OCCUPY THE ZONE - (Pz)	Rp/Pz	Ra/Az	AREA - (Az) SQ.FT.	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	BREATHING ZONE OUTDOOR AIRFLOW - (Vbz) CFM	ZONE OUTDOOR AIRFLOW (Voz) Voz=Vbz/Ez	ZONE PRIMARY AIRFLOW (Vpz)	PRIMARY OUTDOOR AIR FRACTION (Zp) Zp=Voz/Vpz	OCCUPANT DIVERSITY RATIO (D)	UNCORRECTED OUTDOOR AIR INTAKE (Vou) CFM	SYSTEM VENTILATION EFFICIENCY Ev	CORRECTED OUTDOOR AIRFLOW (Vot) CFM	PROVIDED OUTDOOR AIRFLOW CFM
RTU-1																				
DINING	7.5	0.18	70	DINING	26	---	26	194	67	370	0.8	261	326	1400	0.23		261		284	
SALES	7.5	0.12	20	KITCHEN	3	---	3	20	16	130	0.8	35	44	400	0.11		35		35	
VESTIBULE	---	0.06	---	CORRIDOR	---	---	---	---	2	40	0.8	2	3	150	0.02		2		3	
RESTROOM	---	---	---	RESTROOM	---	---	---	---	---	55	0.8	---	---	50	---		---		---	
SYSTEM POPULATION INCLUDING DIVERSITY (Ps) =							26	---	---	---	---	---	---	MAX Zp =	0.23	1.00	298	0.92	324	400
DOAS-1																				
KITCHEN	7.5	0.12	20	KITCHEN	4	---	4	32	25	210	0.8	57	71	1600	0.04		57		57	
BOH	7.5	0.12	20	KITCHEN	14	---	14	107	85	710	0.8	192	240	2800	0.09		192		192	
DRIVE THRU	7.5	0.12	20	KITCHEN	2	---	2	17	13	110	0.8	30	37	400	0.09		30		30	
SYSTEM POPULATION INCLUDING DIVERSITY (Ps) =							21	---	---	---	---	---	---	MAX Zp =	0.09	1.00	278	1.00	278	2,500

ROOFTOP UNIT SCHEDULE

MARK (RTU-#)	1	2
MANUFACTURER	CARRIER	GREENHECK
MODEL	50CCBK08	RV-45-15
AIR FLOW (CFM)	2,000	5,000
OA FLOW (CFM)	400	2,500
AMBIENT OAT (°F)	95.5	95.5
EXTERNAL STATIC (IN. W.C.)	0.60	1.00
DX COOLING COIL		
EAT (°FDB/WB)	80/67	80/67
TOTAL (BTU/HR)	59,000	202,000
SENSIBLE (BTU/HR)	46,800	141,100
ELECTRIC HEAT		
FUEL	ELECTRIC (332A)	ELECTRIC
ELECTRIC HEAT (KW)	18.4	57.4
WINTER SA TEMP (°F)	87	81
FLA (Amps)	51.1	159.3
ELECTRICAL		
VOLTS/Ø/HZ	208-230/3/60	208/3/60
UNIT MCA	83	181.3
MCCP AMPS	90	200
APPROX. WEIGHT (LBS)	844	3,012 (±5%)
EER (SEER)	12.8 (17.4)	11
NOTES	1-14	1-11,13-15

NOTES:

- PROVIDE FACTORY FABRICATED 14" HIGH ROOF CURB. CURB SHALL MATCH SLOPE OF ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE FACTORY MOUNTED WEATHERHOOD AND BIRDSCREEN AT OUTSIDE AIR INTAKE.
- PROVIDE FACTORY INSTALLED LOW-LEAK DRY BULB ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTICS.
- PROVIDE UNIT WITH LOUVERED HAIL GUARDS.
- PROVIDE 5 MINUTE COMPRESSOR RESTART TIME DELAY.
- PROVIDE FILTER RACK AND 2 SETS OF MERV 8 FILTERS.
- CONTRACTOR SHALL INSTALL ALL COMPONENTS SHIPPED LOOSE TO THE FIELD.
- PROVIDE WITH FACTORY CONDENSATE OVERFLOW SWITCH, FOIL FACED INSULATION, AND HINGED ACCESS PANELS.
- SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. FIELD SET 2 MINIMUM POSITIONS TO MAINTAIN SCHEDULED OUTSIDE AIR FLOW RATE AT SUPPLY FAN MINIMUM AND MAXIMUM SPEEDS. OUTSIDE AIR DAMPER SHALL FULLY CLOSE UPON UNIT SHUTDOWN.
- PROVIDE POWERED GFCI CONVENIENCE OUTLET. OUTLET TO BE POWERED BY LINE SIDE OF DISCONNECT.
- PROVIDE FAN WITH 2-SPEED FAN CONTROL.
- PROVIDE FACTORY MOUNTED POWER EXHAUST.
- PROVIDE HOT GAS REHEAT COIL FOR DEHUMIDIFICATION WITH HUMIDISTAT SET TO 55% R.H.
- PROVIDE FACTORY MOUNTED SINGLE ZONE VAV AND DIGITAL SCROLL COMPRESSOR.

AIR BALANCE SCHEDULE

	RTU-1	RTU-2	EF-1	EF-2	EF-3	TOTALS
OUTSIDE AIR FLOW (CFM)	400	2,500	0	0	0	2,900
RETURN AIR FLOW (CFM)	1,600	2,500	0	0	0	4,100
SUPPLY AIR FLOW (CFM)	2,000	5,000	0	0	0	7,000
EXHAUST AIR FLOW (CFM)	0	0	1,230	1,230	75	2,535
BUILDING PRESSURE (CFM)	400	2,500	-1,230	-1,230	-75	365
RESULTING BUILDING PRESSURIZATION (CFM)						365

EXHAUST AND VENTILATION FAN SCHEDULE - OWNER FURNISHED

MARK (EF-#)	1	2	3
MANUFACTURER	FRANKE	FRANKE	FRANKE
MODEL	FR-DU50HFA	FR-DU50HFA	FR-DR10HFA
TYPE	UPBLAST	UPBLAST	DOWNBLAST
DRIVE TYPE	DIRECT	DIRECT	DIRECT
PERFORMANCE			
AIR FLOW (CFM)	1,230	1,230	75
EXT. STATIC (IN. W.C.)	0.8	0.8	0.125
FAN SPEED (RPM)	1,500	1,500	1,015
ELECTRICAL			
VOLTS/Ø/HZ	120/1/60	120/1/60	120/1/60
FAN MOTOR HP	1/2	1/2	1/8
ACCESSORIES	GDC,RC,WB	GDC,RC	BD,BS,DS,RC,SC
APPROX. WEIGHT (LBS)	120	120	75
SERVES	HOOD	HOOD	RESTROOM
NOTES	1,2,3	1,2,3	3,4

ACCESSORIES:

BD-BACKDRAFT DAMPER, BS-BIRD SCREEN, DS-DISCONNECT SWITCH, GDC-GREASE DRAIN AND CUP, RC-ROOF CURB PER HOOD PACKAGE SPECIFICATION, SC-FACTORY MOUNTED AND WIRED SPEED CONTROL, WB-WIND BAND EXTENSION, WP-NEMA 3R DISCONNECT SWITCH

NOTES:

- FAN SHALL BE CONTROLLED BY SWITCH AT KITCHEN HOOD. INTERLOCK RTU-1 AND RTU-2 TO OPERATE IN OCCUPIED MODE WHILE HOOD EXHAUST FAN IS ENERGIZED. SEE HOOD PACKAGE ON M3.x SHEETS FOR MORE INFORMATION.
- PROVIDE WITH VARIABLE SPEED CONTROLLER.
- COORDINATE WITH MANUFACTURER FOR FINAL SELECTION.
- ELECTRICAL CONTRACTOR SHALL INTERLOCK FAN WITH TIMELOCK.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	A	B	C
MANUFACTURER	TITUS	TITUS	TITUS
MODEL	TMS-AA	TMS-AA	PAR-AA
TYPE	SQUARE CONE DIFFUSER	SQUARE CONE DIFFUSER	PREFORATED FACE DIFFUSER
NECK SIZE (L"XW")	PER PLAN	PER PLAN	PER PLAN
FACE SIZE (L"XW")	24"X24"	24"X24"	24"X24"
FRAME TYPE	LAY-IN	LAY-IN	LAY-IN
FINISH	WHITE	WHITE	WHITE
NOISE CRITERIA LEVEL	<30	<30	<30
ACCESSORIES		TRM	

MARK	D	E	F
MANUFACTURER	TITUS	TITUS	TITUS
MODEL	TMS-AA	355FL	50F
TYPE	SQUARE CONE DIFFUSER	LOUVERED EXHAUST GRILLE	EGGCRATE GRILLE
NECK SIZE (L"XW")	PER PLAN	10"X10"	22"X22"
FACE SIZE (L"XW")	12"X12"	12"X12"	24"X24"
FRAME TYPE	LAY-IN	SURFACE	LAY-IN
FINISH	WHITE	WHITE	WHITE
NOISE CRITERIA LEVEL	<30	<30	<30
ACCESSORIES	TRM	STR	

ACCESSORIES:
STR-SQUARE TO ROUND TRANSITION (AS REQUIRED), TRM-RAPID MOUNT SHEETROCK FRAME

AIR CURTAIN SCHEDULE

MARK (AC-#)	1
MANUFACTURER	MARS
MODEL	LPV236-1UA-OB
AIR FLOW (CFM)	900
ELECTRICAL	
VOLTS/Ø/HZ	115
MOTOR QUANTITY	1
MOTOR HP	1/6
MCA (AMPS)	3
MCCP (AMPS)	15
FINISH	OBSIDIAN BLACK
APPROX. WEIGHT (LBS)	32
NOTES	1-3

NOTES:

- PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
- PROVIDE WITH DOOR MICRO-SWITCH.
- PROVIDE WITH FILTER.
- PROVIDE MOUNTING HARDWARE REQUIRED BY MANUFACTURER FOR COMPLETE INSTALLATION.

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

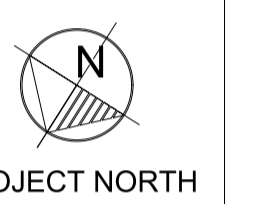
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10.30.2023

Company Logo



Project



Store Type

US 2112 PROTOTYPE
2112-21

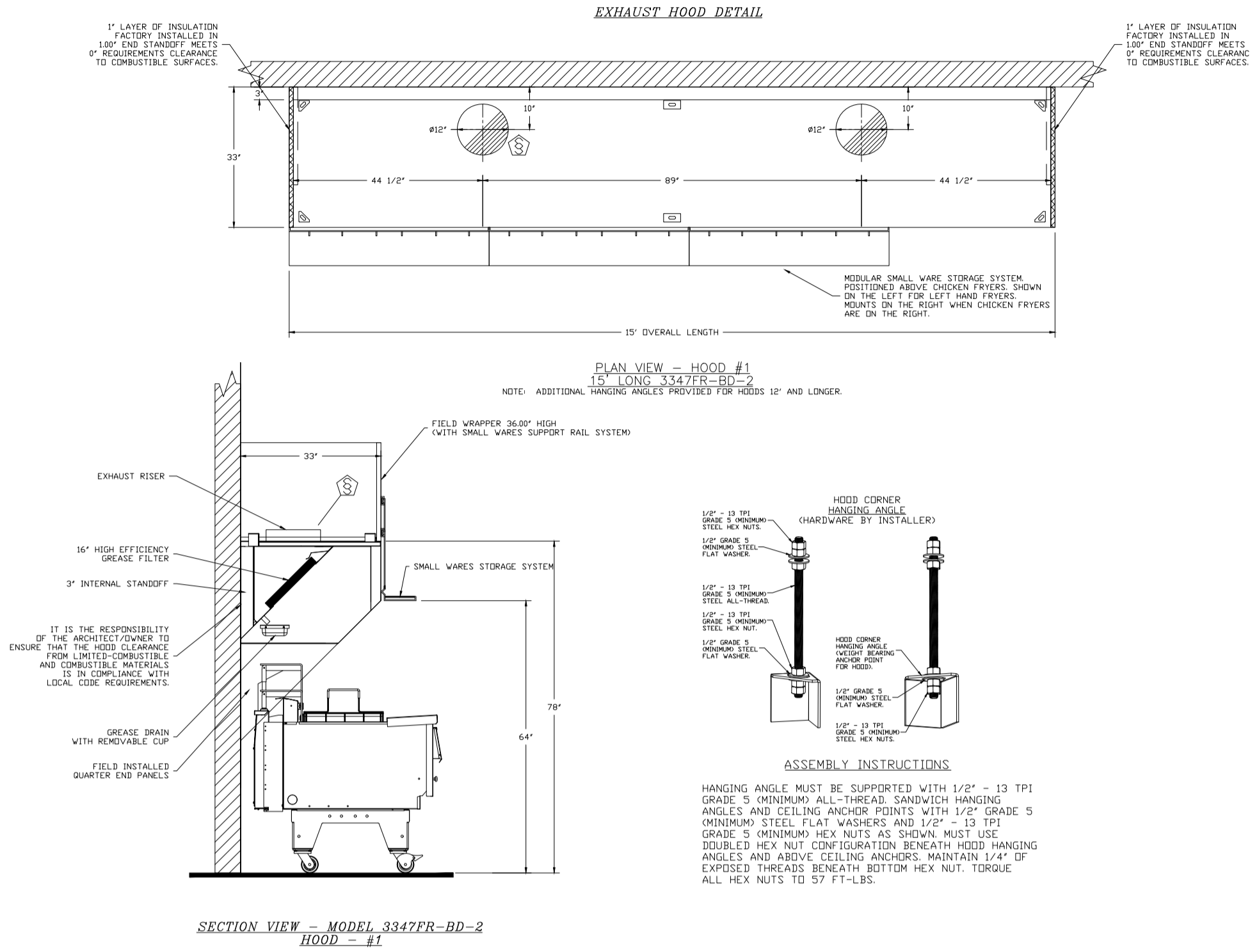
Location

1517 NC 24-87
CAMERON, NC

Drawing Title
MECHANICAL SCHEDULES

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	M2.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



1 EXHAUST HOOD DETAIL
1 SCALE: NO SCALE

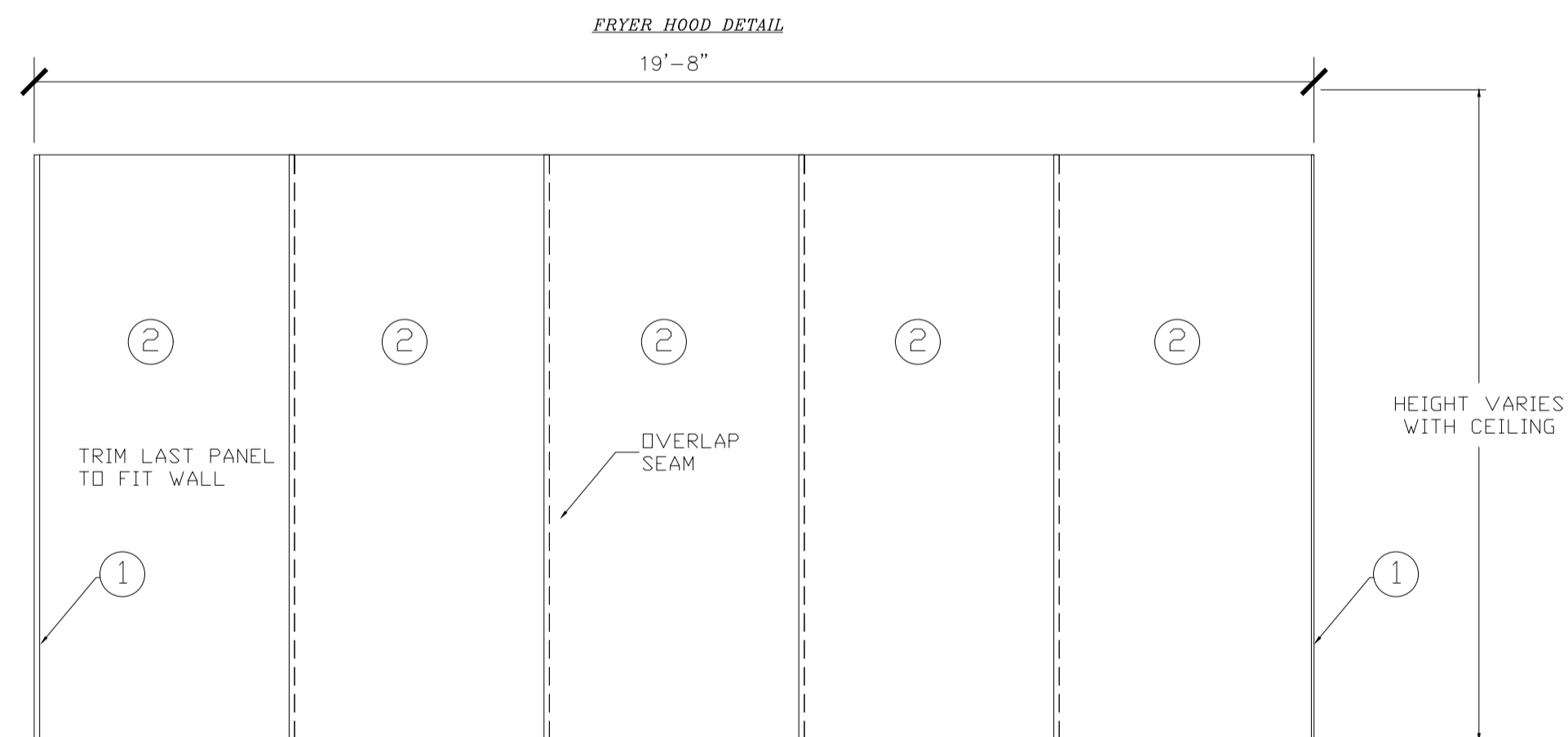


PLK 2112
15' HOOD PACKAGE

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



COVERS ENTIRE WALL BEHIND HOOD

ITEM	QTY	DESCRIPTION
1	2	S/S CAP STRIP
2	5	WALL FLASHING 48" WIDE

2 BACKSPLASH DETAIL
1 SCALE: NO SCALE

Revision #	Date	Description
A	10/01/20	INITIAL ISSUE

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

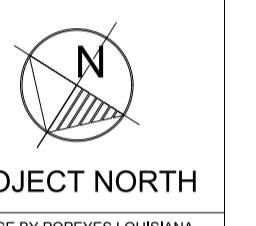
REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION



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10.30.2023



Account: POPEYES Restaurant
Title: PLK 2112 WALL MOUNTED INSTALLATION DETAIL
Site ID: -
Operator: -
Site Address: -
City: -
State: - Zip Code: - Country: -
Region: -
Building Type: -
Electrical Service: -
Gas Service: -
Market Manager: -
Frankie Project Number: -

Created by: HP033
Date Issued: 10/01/20
Modified By: AM029
Drawing Scale: AS NOTED
Units: INCHES
Drawing Number: -
Revision: A

Sheet Name: 1 OF 4

Project: POPEYES
Store Type: US 2112 PROTOTYPE 2112-21
Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: MECHANICAL HOOD DRAWINGS

Drawn	Checked	Scale	Date
NI	AH	1/4" = 1'-0"	JUNE 2023
Project No. C22-129	Drawing No. M3.1		

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-LEFT	1	FR-BUS04FA	FRANKE FOODSERVICE	1231	0.800	1500	TEAD-ECM	0.500	0.3500	1	115	6.3	468 FPM	78	15.9
2	EF-RIGHT	1	FR-BUS04FA	FRANKE FOODSERVICE	1231	0.800	1500	TEAD-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	EF-LEFT	1	EXHAUST FAN HEAT BAFFLE
1	EF-LEFT	1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECM/D PREVIRE (TELCD MOTOR), CCV ROTATION
2	EF-RIGHT	1	GREASE BOX
2	EF-RIGHT	1	EXHAUST FAN HEAT BAFFLE
2	EF-RIGHT	1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECM/D PREVIRE (TELCD MOTOR), CCV ROTATION

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST	SUPPLY
1	EF-LEFT	GREASE CUP GRAVITY DAMPER WALL MOUNT SIDE DISCHARGE	GRAVITY DAMPER MOTORIZED DAMPER WALL MOUNT
2	EF-RIGHT	YES	YES

CURB ASSEMBLIES

NO.	IN. 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

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL705 AND UL-C-5643
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300° (400°)
- GREASE CLASSIFICATION TESTING
- NEMA 3R SAFETY DISCONNECT SWITCH

NORMAL OPERATING TEST

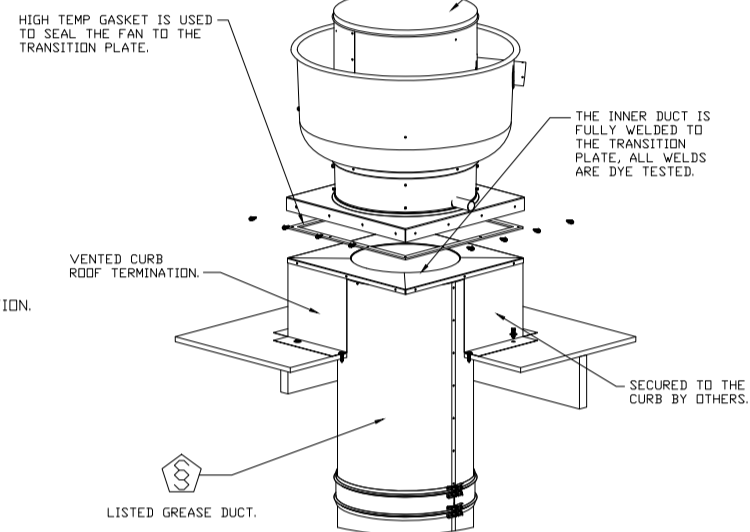
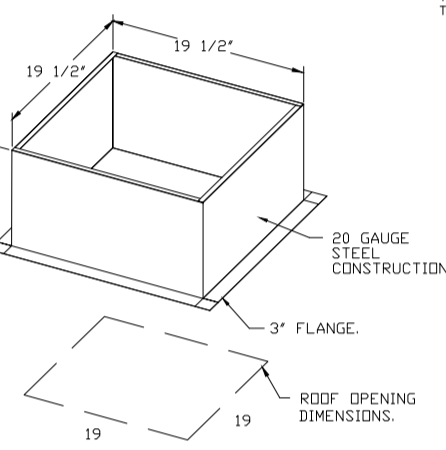
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 300° (350°) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BEING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

ABNORMAL FLAME-UP TEST

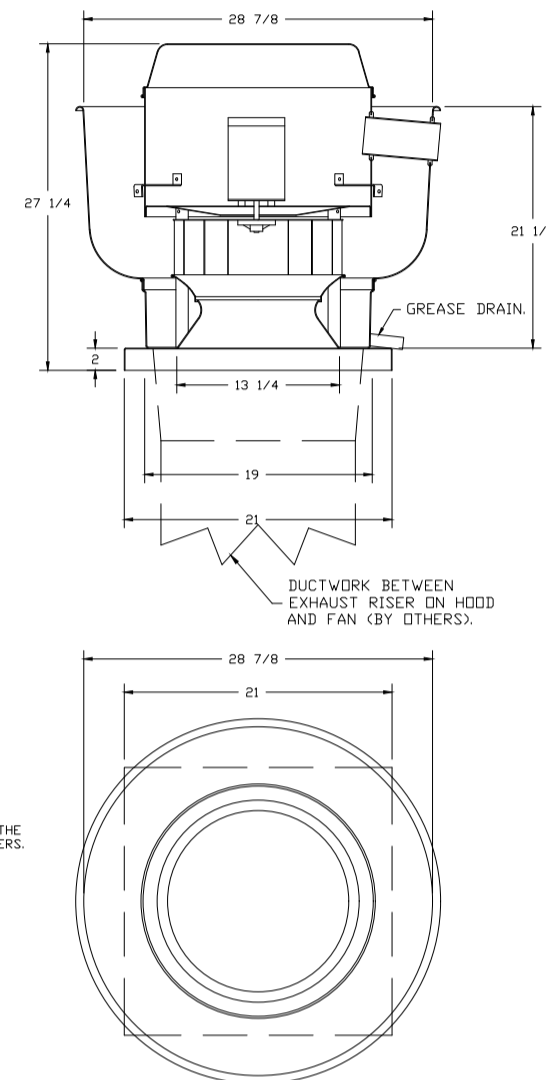
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 300° (350°) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BEING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

DESIGNS

GREASE BOX EXHAUST FAN HEAT BAFFLE FAN BASE GRAVITY SEAL - SHIP LOOSE FOR GREASE DUCT. DISCHARGE REFERENCE SPEED CONTROL (TELCD MOTOR), CCV ROTATION



(FAN #1 (EF-LEFT), #2 (EF-RIGHT)) - FR-BUS04FA EXHAUST FAN



EXHAUST HOOD DATA

HOOD INFORMATION - PLK 2136 PROTO

HOOD NO.	TAG	MODEL	MANUFACTURER	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM	TOTAL EXH. CFM	EXHAUST PLENUM			HOOD CONSTRUCTION				
									WIDTH	LENGTH	HEIGHT	END TO END	ROOF	ROOF		
1		2347	FRANKE FOODSERVICE	14' 10"	400 DEG	1	166	2462	4'	12'	12'	1231	1267	-0.734"	430 SS	ALDNE

HOOD INFORMATION

HOOD NO.	TAG	TYPE	F. (FEET)			EFFICIENCY # 7 MICRONS	QTY	L. (FOOT)			WIRE GUARD	INSUL. (KANSAS)			ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE HOOD SYSTEM	HOOD WEIGHT
			HT	LG	WD			HT	LG	WD		TYPE	SIZE	TYPE				
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 MANUFACTURER'S INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURER'S 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. PERFORMED 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 _____ DATE _____
 YOUR TITLE _____

4 EXHAUST FAN DATA
 2 SCALE: NO SCALE

3 EXHAUST HOOD DATA
 2 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	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
3	RESTROOM	1	FR-DR04FA	75	0.25	1815	TEAD-ECM	0.06	0.02	1	115	1.9		50	1.9

FAN OPTIONS

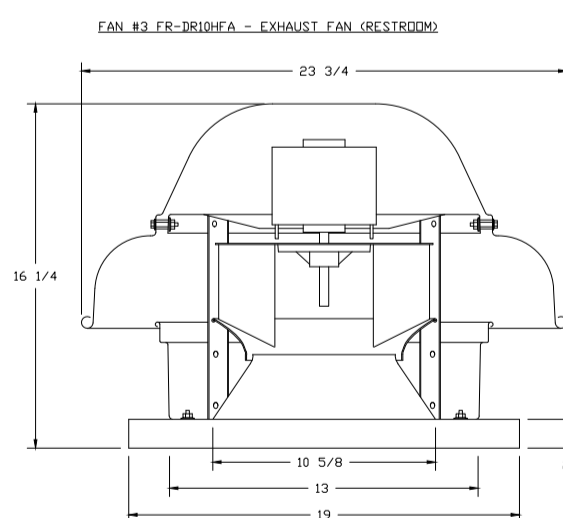
FAN UNIT NO.	TAG	QTY	DESCRIPTION
3	RESTROOM	1	1 12-BBD DAMPER
3	RESTROOM	1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCD MOTOR), CCV ROTATION

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST	SUPPLY
3	RESTROOM	GREASE CUP GRAVITY DAMPER WALL MOUNT SIDE DISCHARGE	GRAVITY DAMPER MOTORIZED DAMPER WALL MOUNT

CURB ASSEMBLIES

NO.	IN. FAN	TAG	WEIGHT	ITEM	SIZE
3	# 3	RESTROOM	25 LBS	CURB	17.500"W X 17.500"L X 20.000"H

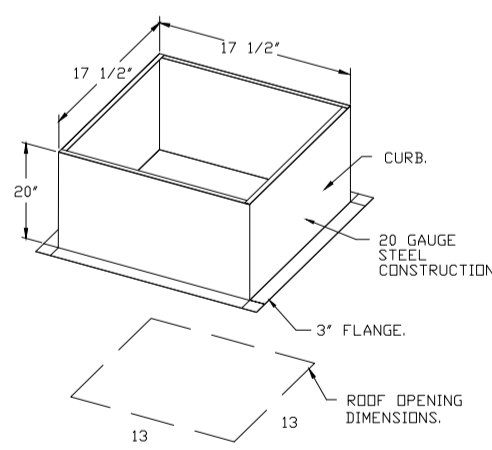


FEATURES:

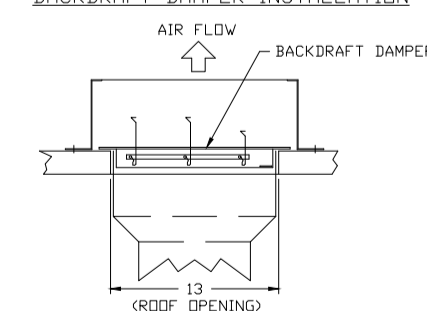
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- UL705
- SAFETY DISCONNECT
- STANDARD BIRD SCREEN
- SPEED CONTROL

DESIGNS

1 12-BBD DAMPER
 ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCD MOTOR), CCV ROTATION



BACKDRAFT DAMPER INSTALLATION



CUSTOMER APPROVAL TO MANUFACTURE:
 APPROVED AS NOTED
 APPROVED WITH NO EXCEPTION TAKEN
 REVISE AND RESUBMIT
 SIGNATURE _____ DATE _____
 YOUR TITLE _____

5 RESTROOM EXHAUST FAN DATA
 2 SCALE: NO SCALE



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Account: POPEYES

Restroom: 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: -

Frankie Project Number: -

Created by: HP033

Date Issued: 10/01/20

Modified By: AM029

Drawing Scale: AS NOTED

Units: INCHES

Drawing Number: -

Revision: A

Sheet Name: -

2 OF 4

No.	Date (mm/dd/yyyy)	Description

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION

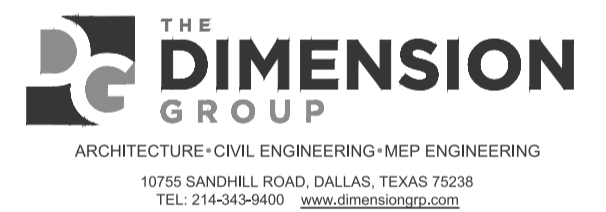


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10.30.2023

Company Logo



Project



Store Type: US 2112 PROTOTYPE 2112-21

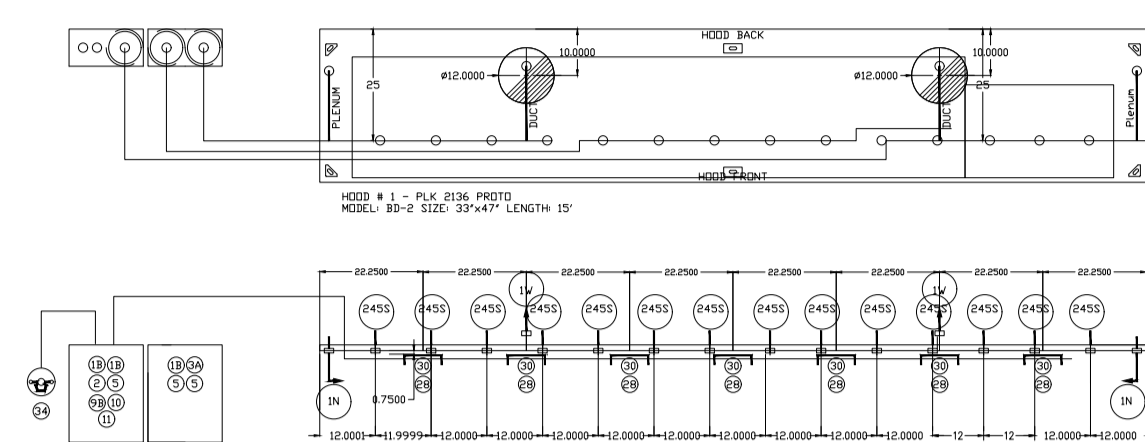
Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: MECHANICAL HOOD DRAWINGS

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	M3.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

DUAL ANSUL SYSTEM - CHICKEN AND FRY HOODS



- NOTES
- FIELD PIPE DRIPS AS SHOWN
 - RELEASE NOZZLES, FIELD AND NOZZLES SUPPLIED BY GAS SALAMANDERS, ETC.
 - RELIEVE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
 - MINIMUM 9" ELBOWS IN SUPPLY LINE
 - MINIMUM 7/8" INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE
 - IF APPLICABLE, PRE-FITTED CHARBRIERLEK BRIGGS ARE SHIPPED WITH HOODS
 - FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD
 - APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE
 - THIS FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS

- JOB # PLK 2136 PROTO
- JOB NAME POPEYES - KITCHEN OF THE FUTURE! STRAIGHT DUCT
- SYSTEM SIZE: ANSUL - 30/30/30 TOTAL FP REQUIRED 30.
- HOOD # 1 1" 30" LONG x 30" WIDE x 47" HIGH
- HOOD # 2 4" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 3 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 4 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 5 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 6 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 7 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 8 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 9 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 10 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 11 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 12 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 13 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 14 1" 30" LONG x 30" WIDE x 44" HIGH
- HOOD # 15 1" 30" LONG x 30" WIDE x 44" HIGH



- LEGEND - WALL MOUNTED ANSUL SYSTEM
- 1A 15 GALLON TANK
 - 1B 30 GALLON TANK
 - 2 AUTOMAN RELEASE
 - 3 GALLON TANK ENCLOSURE
 - 4 GALLON TANK ENCLOSURE
 - 5 REGULATED ACTUATOR
 - 6 ANSULEX LIQUID AGENT (3 GAL.)
 - 7 ANSULEX LIQUID AGENT (15 GAL.)
 - 8 CARTRIDGE (100-30)
 - 9 CARTRIDGE (100-30)
 - 10 CARTRIDGE (100-30)
 - 11 DOUBLE MICROSWITCH
 - 12 TEST LINK
 - 13 NOZZLE ASSEMBLY (419336)
 - 14 NOZZLE ASSEMBLY (419337)
 - 15 NOZZLE ASSEMBLY (419338)
 - 16 NOZZLE ASSEMBLY (419339)
 - 17 NOZZLE ASSEMBLY (419340)
 - 18 NOZZLE ASSEMBLY (419341)
 - 19 NOZZLE ASSEMBLY (419342)
 - 20 NOZZLE ASSEMBLY (419343)
 - 21 NOZZLE ASSEMBLY (419344)
 - 22 DETECTOR BRACKET
 - 23 LOW TEMP FUSIBLE LINK
 - 24 HIGH TEMP FUSIBLE LINK
 - 25 MECHANICAL GAS VALVE
 - 26 ELECTRIC SWITCH
 - 27 RED COMPOSITE (WITHOUT WIRE HOPE)
 - 28 SWIVEL ADAPTER



TYPICAL ANSUL RISE SYSTEM LAYOUT WITH REMOTE REGULATED AUTOMAN

SYSTEM CONTROL ACTUATOR WITH AGENT TANK ENCLOSED

AGENT LINE

DETECTORS

DUCT PROTECTION NOZZLE

FLOW PROTECTION NOZZLE

APPLIANCE PROTECTION NOZZLE

FIELD PIPE DRIPS AS SHOWN

RELIEVE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.

MINIMUM 9" ELBOWS IN SUPPLY LINE

MINIMUM 7/8" INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE

IF APPLICABLE, PRE-FITTED CHARBRIERLEK BRIGGS ARE SHIPPED WITH HOODS

FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD

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

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FRESH RESEAL AND RECHARGE MECHANISM. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTIVATION. LOCAL DETECTION SHALL BE AVAILABLE FOR MONITORING OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE SUPPLY PIPING SHALL BE PRE-ENGINEERED CHARBRIERLEK BRIGGS. DETECTION PIPING SHALL BE PRE-ENGINEERED CHARBRIERLEK BRIGGS WITH INSTRUCTIONS FOR LOWER AGENT HANDING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK. FUSIBLE LINKS SHALL BE AVAILABLE TO REPLACE COMPONENTS WITH INSTRUCTIONS FOR LOWER AGENT HANDING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK. FUSIBLE LINKS SHALL BE AVAILABLE TO REPLACE COMPONENTS WITH INSTRUCTIONS FOR LOWER AGENT HANDING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK. FUSIBLE LINKS SHALL BE AVAILABLE TO REPLACE COMPONENTS WITH INSTRUCTIONS FOR LOWER AGENT HANDING AND USAGE.

JOB # PLK 2136 PROTO

JOB NAME POPEYES - 2020 PROTO

SYSTEM SIZE: ANSUL - 30/30/30 TOTAL FP REQUIRED 30.

HOOD # 1 1" 30" LONG x 30" WIDE x 47" HIGH

HOOD # 2 4" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 3 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 4 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 5 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 6 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 7 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 8 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 9 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 10 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 11 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 12 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 13 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 14 1" 30" LONG x 30" WIDE x 44" HIGH

HOOD # 15 1" 30" LONG x 30" WIDE x 44" HIGH

UL LISTED NON-WELDED DUCT WORK

DUCTWORK PARTS - JOB#2136 PROTO - DOUBLE WALL SINGLE WALL DUCT

TAG	PART #	QTY	WEIGHT	HEIGHT	VELOCITY	QTY DESCRIPTION
P1	DW1250WLT-2R-5	1245	-0.0151	40.86	1585.18	1 DOUBLE WALL DUCT - 12" INNER DUCT, 35' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL
P2	DW12470WLD-2R-5	1245	-0.0119	83.19	1585.18	1 DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL, MN LENGTH = 48.5' / ADJUSTMENT = 10.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT, INCLUDES SINGLE AND DOUBLE WALL "Y" CLAMPS
P3	DW124550DWLTP-2R-5	1245	-0.02	53.52	1585.18	1 DOUBLE WALL DUCT - 12" INNER DUCT, 45.5' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE
P4	DW1912PDBEX	1245	7.50	1585.18	1	1 DUCT TO CURB TRANSITION 3/4" DOWN TURN, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL, FOR USE WITH EXHAUST FANS.
P5	DW1250WLT-2R-5	1245	-0.0151	40.86	1585.18	1 DOUBLE WALL DUCT - 12" INNER DUCT, 35' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL
P6	DW12470WLD-2R-5	1245	-0.0119	83.19	1585.18	1 DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL, MN LENGTH = 48.5' / ADJUSTMENT = 10.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT, INCLUDES SINGLE AND DOUBLE WALL "Y" CLAMPS
P7	DW124550DWLTP-2R-5	1245	-0.02	53.52	1585.18	1 DOUBLE WALL DUCT - 12" INNER DUCT, 45.5' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE
P8	DW1912PDBEX	1245	7.50	1585.18	1	1 DUCT TO CURB TRANSITION 3/4" DOWN TURN, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL, FOR USE WITH EXHAUST FANS.
SM-2000PLUS		0.80				1 DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT			370.94			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/4" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL WALL SUPPORT (FT)	VERTICAL CURB SUPPORT (FT)
12"	10'	10'	24'

CONFORMS TO UL STD 2221 AND UL STD 1978

CERTIFIED TO CAN/UL-S115, CAN/ULC-S662 AND ASTM E814

MODEL # FDW-2R

Double Wall Duct - 10" Inner Duct, 2 Layers Reduced Clearance - 14" Stainless Steel Outer Shell



Intertek 2001474

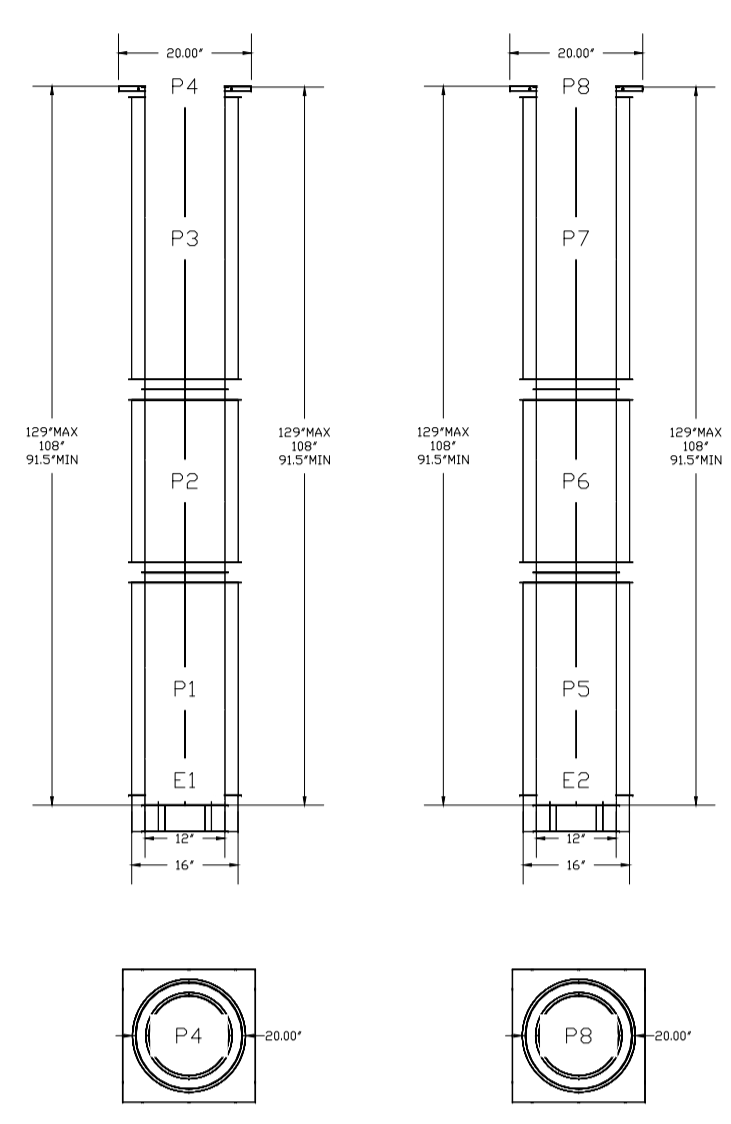
Notes:

- This duct has been evaluated for use as a 2 hour fire rated grease duct system. It is classified as an alternative to 2 hour fire resistive rated shaft enclosure systems.
- For grease duct systems installed without a continuous fire-rated enclosure, an evaluated through-roof fire stop assembly shall be used.
- Complies all applicable requirements of the referenced standards as required by the National Building Code of Canada (NBCC), International Mechanical Code (IMC) or NFPA96, and when installed in accordance with the manufacturer's recommended installation instructions.

Clearances:

- This duct may be installed with 1/2" clearance from the outer surface of the duct to combustible materials. The outer v-band may be installed in contact with combustible materials.

DUCTWORK #1 FRONT VIEW DOUBLE WALL DUCT



DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES.

8 ANSUL PIPING

4 SCALE: NO SCALE

7 UL LISTED NON-WELDED DUCT WORK

4 SCALE: NO SCALE

ANSUL FIRE SYSTEM EQUIPMENT SCHEDULE

FIRE SYSTEM INFORMATION - JOB PLK 2136 PROTO

FIRE SYSTEM TAG	TYPE	SIZE	FLOW POINTS	SYSTEM	LOCATION ON HOOD
1	ANSUL ROSE	30/30/30	30	WALL MOUNT LEFT	N/A

GAS VALVES(S)

FIRE SYSTEM TAG	TYPE	SIZE	SUPPLIED BY
1	MECHANICAL	1500	FRANKE FOODSERVICE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

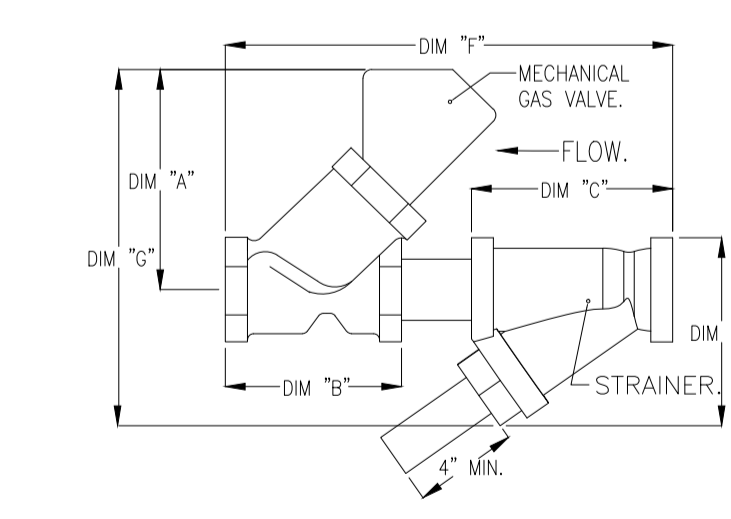
FIRE SYSTEM TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY BIDD
0	0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0004291	18	0
1	1 - 1 - AT - 30 TANK#118) - 30 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, OR SS ENCLOSURE (UL/ULC)) MACCLA # 01-429882	3	0
2	2 - 2 - AP - AR AUTOMAN RELEASE - ANSUL AUTOMAN MECHANICAL RELEASE (UL). TANK SOLD SEPARATELY. ANSUL PART # 429853, MACCLA # 01-429893	1	0
3	3 - 3 - AP - AE ENCLOSURE (DOUBLE) - DOUBLE STAINLESS STEEL ENCLOSURE (UL), ANSUL PART # 429872, MACCLA # 03-429872	1	0
4	4 - 4 - AE ENCLOSURE - STAINLESS STEEL ENCLOSURE ASSEMBLY (UL), ANSUL PART # 429870, MACCLA # 01-429870	0	0
5	5 - 5 - L10-30 AGENT - ANSULEX LDW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372	3	0
9	9 - 9 - BT-CART DOUBLE TANK NITROGEN CARTRIDGE	0	1
10	10 - 10 - T-Link LINK - TEST LINK (3) TEST LINK ANSUL PART # 24966, MACCLA # 20-24966	1	0
11	11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE, SINGLE BUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACCLA # 08-437155	1	0
14	14 - 14 - 419336 NOZZLE - 1W NOZZLE, DUCT/APPLIANCE (REPLACES ANSUL PART# 419347, GAS PART# 419336) A0002064	2	0
16	16 - 16 - 419335 NOZZLE - IN NOZZLE, PLENUM/APPLIANCE (REPLACES ANSUL PART# 419346, GAS PART# 419335) A0002064	2	0
20	20 - 20 - 419340 NOZZLE - 24S NOZZLE, APPLIANCE (REPLACES ANSUL PART# 419351, PART# 419340) A0002070	14	0
25	25 - 25 - 418569 NOZZLE ADAPTOR - SWIVEL NOZZLE ADAPTOR (REPLACES CAS PART # 418569) A0002074	14	0
26	26 - 26 - 05A-3/8 GUNK SEAL - 3/8" (UL)	18	0
27	27 - 27 - 05A-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACCLA # 32-79768	1	0
28	28 - 28 - S-BET DETECTOR - SERIES (SCISSOR LINKAGE) ANSUL PART # 439547/439548 OLD # 412863/434480) MACCLA # 05-412863	7	0
30	30 - 30 - ANS-500FL FUSIBLE LINK - 500EG F, R-102 AND PIRANHA, ANSUL PART # 439232	7	0
34	34 - 34 - RPE-H REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE HOPE) 434618 OLD MACCLA # 806-4830	1	0
35	35 - 35 - PE-LT PULLEY ELBOW - LDW TEMP PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 435070, MACCLA # 11-435071	0	10
36	36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACCLA # 10-45771	1	0

GAS VALVES AND STRAINERS

TYPE	SIZE	GAS VALVE SIZING		GAS VALVE DIMENSIONS							INSTALLATION	PART NUMBERS				
		MIN. INLET PRESSURE	MAX. INLET PRESSURE	DN "A"	DN "B"	DN "C"	DN "D"	DN "E"	DN "F"	DN "G"		WORKING ORIFICE	GAS VALVE NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT	
GAS VALVE FOR F81	1-1/2"	N/A	0 PSI (0 IN.W.C.)	277 IN.W.C.	1706.969	1706.969	6-3/8"	4-3/8"	5-3/4"	6-3/16"	12-5/8"	11-3/8"	HORIZONTAL	27-55607	4417667	M0A1-1/2

ALL GAS VALVES/STRAINERS PROVIDED CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER OUTSIDE MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.54, SPECIFIC GRAVITY OF L.P.G. = 1.52

CALCULATIONS TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP TO CALCULATE GAS FLOW FOR OTHER THAN 0.68 SPECIFIC GRAVITY NEW BTU/HR = (BTU/HR AT 0.68) X (0.68 / NEW SPECIFIC GRAVITY)



Franks Foodservice Systems Americas, Inc. 800 Aviation Parkway Smyrna, TN USA 37167 Tel. +800 472-2954 fs_customerservice.us@franke.com www.frankeusa.com

Exclusion of Liability FRANKE shall not be responsible for the accuracy of the Bill of Materials and construction drawings. All dimensions and connections specified by FRANKE shall be checked by the Bidder prior to installation. Specifications for proper consumption and connections are limited to equipment specified by FRANKE. Bidder shall be responsible for any equipment not specified by FRANKE. Bidder shall be responsible for any equipment not specified by FRANKE. Bidder shall be responsible for any equipment not specified by FRANKE.

Account: POPEYES
 Project: 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
 Drawing Number: -
 Sheet Name: -

4 OF 4

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION



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10.30.2023

Company Logo

ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
 10750 SANDHILL ROAD, DALLAS, TEXAS 75238
 TEL: 214-634-9000 www.thedimensiongroup.com



Store Type: US 2112 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

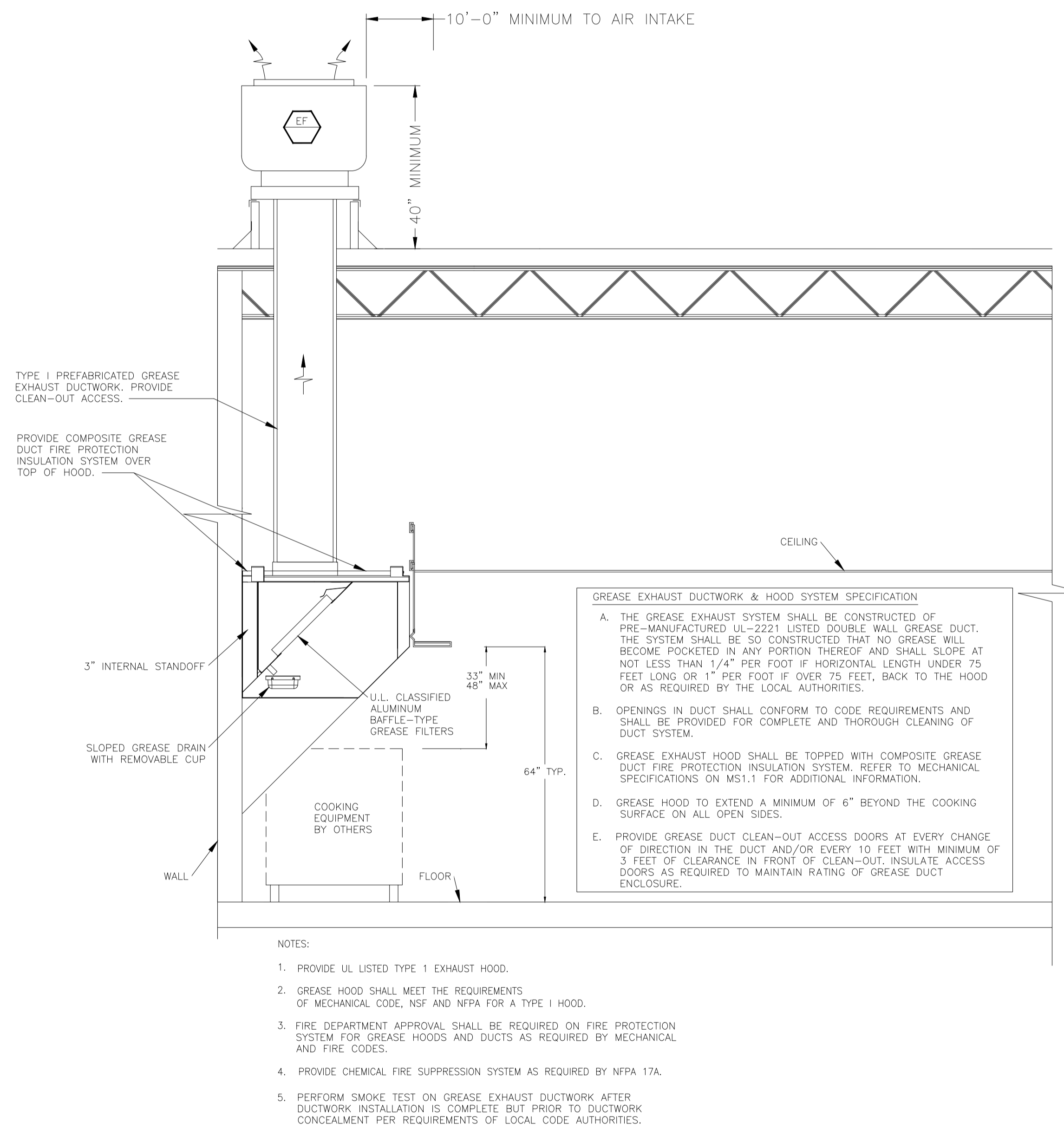
Drawing Title: MECHANICAL HOOD DRAWINGS

Drawn	Checked
NI	AH

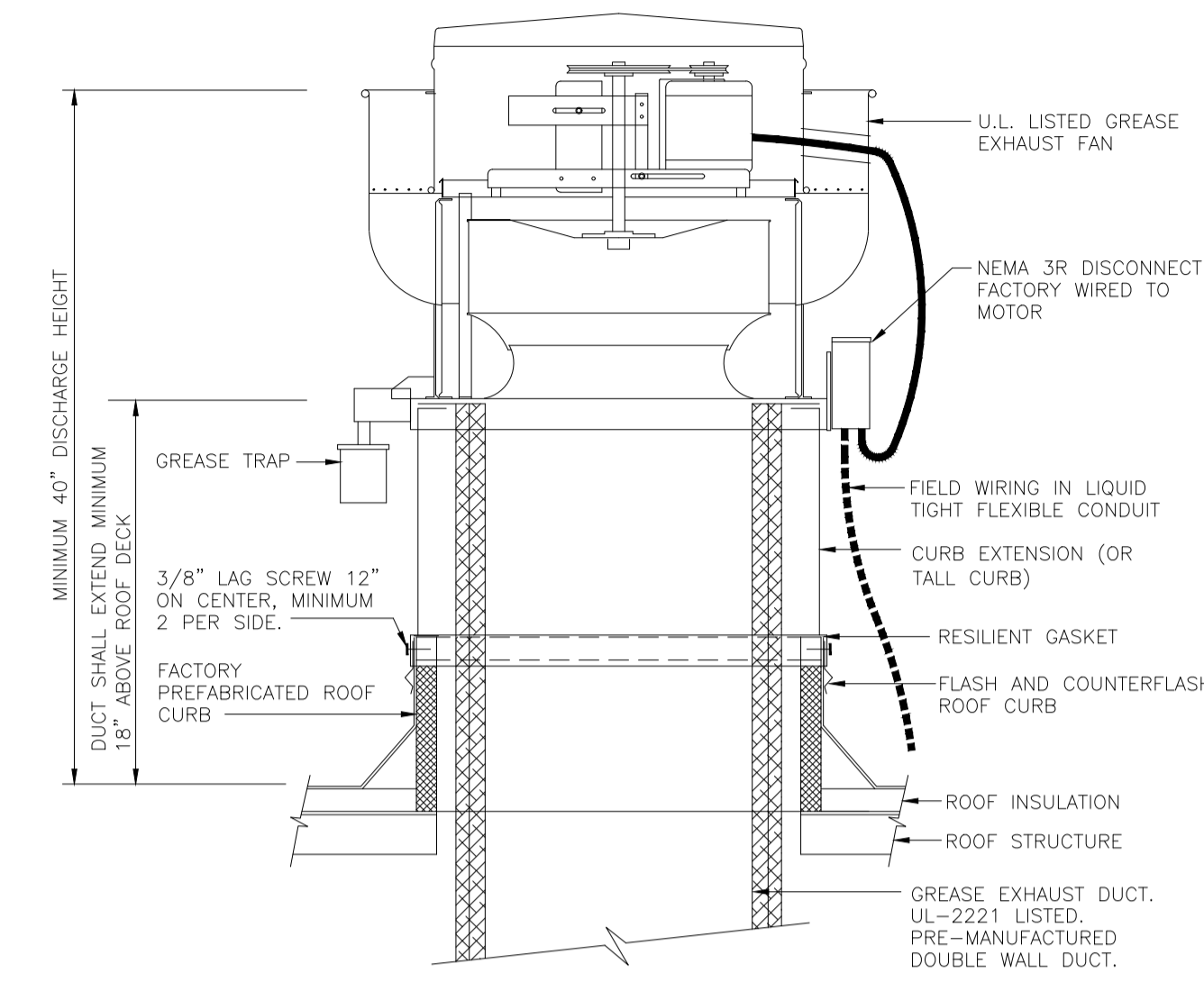
Scale	Date
1/4" = 1'-0"	JUNE 2023

Project No.	Drawing No.
C22-129	M3.4

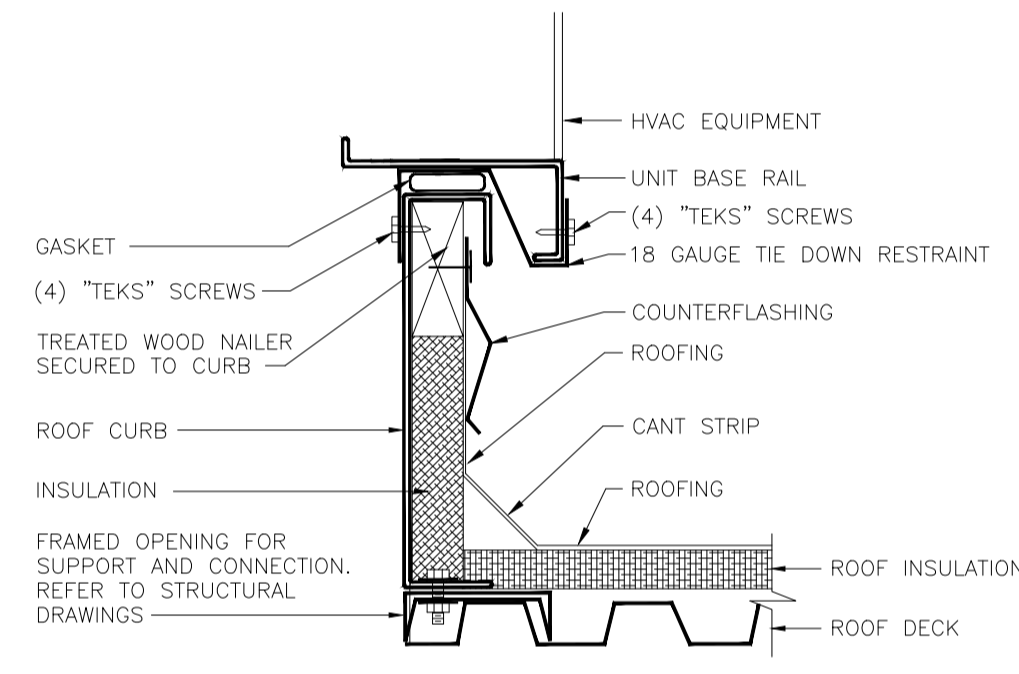
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



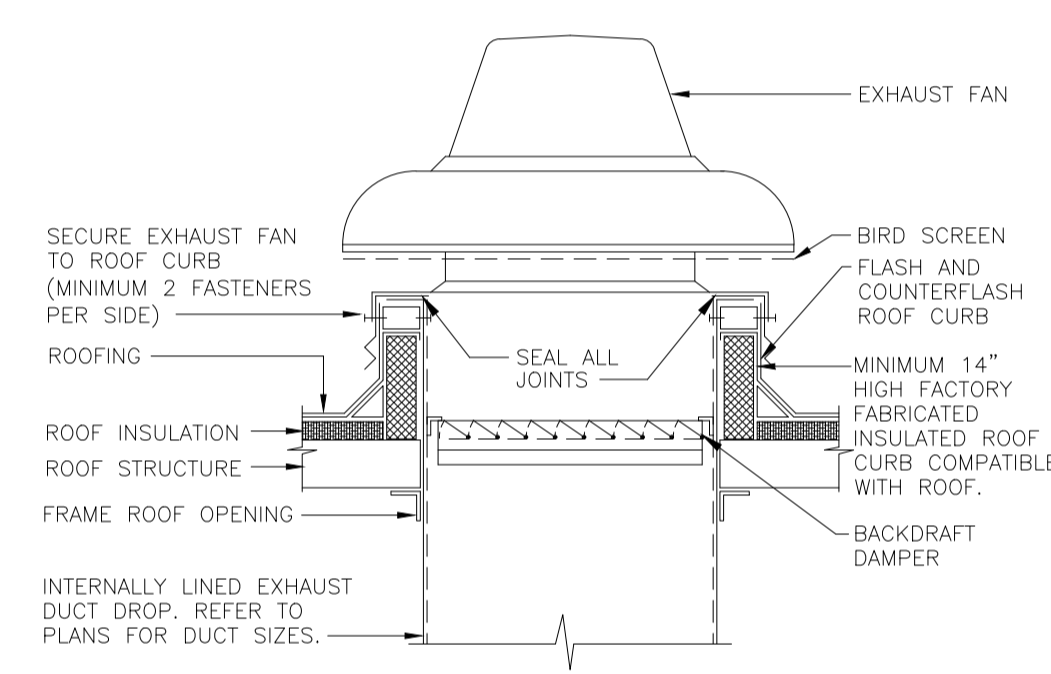
05 KITCHEN HOOD SCHEMATICS
NOT TO SCALE



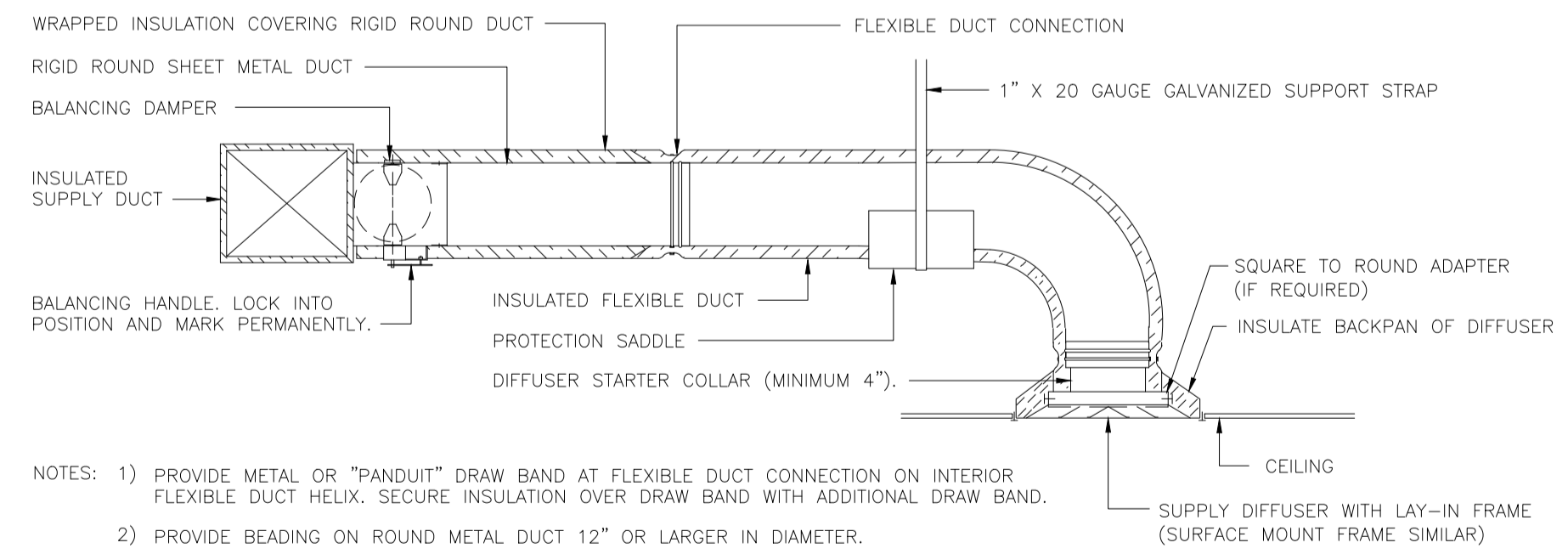
01 ROOF MOUNTED GREASE EXHAUST FAN DETAIL
NOT TO SCALE



03 ROOFTOP UNIT CURB DETAIL
NOT TO SCALE



02 EXHAUST FAN DETAIL
NOT TO SCALE



04 DIFFUSER CONNECTION DETAIL
NOT TO SCALE

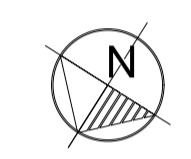
- NOTES:**
- PROVIDE METAL OR "PANDUIT" DRAW BAND AT FLEXIBLE DUCT CONNECTION ON INTERIOR FLEXIBLE DUCT HELIX. SECURE INSULATION OVER DRAW BAND WITH ADDITIONAL DRAW BAND.
 - PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
 - PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
 - BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

ISSUE TABLE		
No.	Date (mm/dd/yyyy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS


DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION


PROJECT NORTH


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 NORTH CAROLINA PROFESSIONAL ENGINEER
 ASSOCIATION

10.30.2023

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10750 SANDHILL ROAD, DALLAS, TEXAS 75238
 TEL: 214-434-9600 www.thedimensiongroup.com

Project


POPEYES

Store Type **US 2112 PROTOTYPE 2112-21**

Location **1517 NC 24-87 CAMERON, NC**

Drawing Title **MECHANICAL DETAILS**

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	M4.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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 BE ENERGIZED 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 (GALVANNEALD) 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 BAG-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°. 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 FYREWAP 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/TEENANT. 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
	FLEXIBLE DUCTWORK

GENERAL REFERENCES/NOTATIONS:

#	SQUARE NOTE DESIGNATION
	REVISION DESIGNATION
TYPE X	MECHANICAL EQUIPMENT DESIGNATION
	DIFFUSER DESIGNATION AND CFM

EQUIPMENT:

	ROOF MOUNTED EXHAUST FAN
	ROOFTOP UNIT
	THERMOSTAT - ELECTRIC
	TEMPERATURE SENSOR
	TEMPERATURE/HUMIDITY SENSOR
	DUCT SMOKE DETECTOR

SYMBOLS LEGEND NOTES:
1. REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION

PROJECT NORTH

THIS DRAWING IS OWNED BY OR LICENSED FOR USE BY POPEYES LOUISIANA KITCHEN (OR ITS AFFILIATES OR RELATED COMPANIES) AND MAY NOT BE REPRODUCED, USED, DOWNLOADED, DISSEMINATED, PUBLISHED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, EXCEPT WITH THE PRIOR WRITTEN CONSENT OF POPEYES LOUISIANA KITCHEN. COPYRIGHT INFRINGEMENT IS A VIOLATION OF FEDERAL LAW SUBJECT TO CRIMINAL AND CIVIL PENALTIES.

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.



10.30.2023

Company Logo



Project



Store Type

US 2112 PROTOTYPE
2112-21

Location

1517 NC 24-87
CAMERON, NC

Drawing Title

MECHANICAL
SPECIFICATIONS

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	MS.1.1

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 PROCEEDS 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 1/2" 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:

AF/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

LINE TYPES:

-----	EXISTING PLUMBING LINE - SEE DRAWING
----	COLD WATER (CW)
----	COLD WATER (CW) - BELOW SLAB/GRADE
----	FILTERED WATER SUPPLY (FW)
----	HOT WATER (HW) 140'
----	HOT WATER RETURN (HWR)
----	NATURAL GAS LINE
----	CONDENSATE LINE (D)
----	PLUMBING VENT (V)
----	PLUMBING VENT (V) - BELOW SLAB/GRADE
----	SANITARY WASTE (SAN) - BELOW SLAB/GRADE
----	GREASE WASTE (GW) - BELOW SLAB/GRADE
----	WATER HEATER VENT
----	SODA CHASE
----	USED COOKING OIL
----	STORM LINE (ST)
----	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 #ML1055SSCOO 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.
ID	TRENCH DRAIN	ZURN	Z886-SOG	6-1/4"x24" HDPE TRENCH DRAIN WITH STAINLESS DECORATIVE GRATE. FIELD CUT TRENCH DRAIN AS REQUIRED. COORDINATE FINISHED WIDTH AND LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.	SET TRENCH DRAIN LEVEL WITH FINISH FLOOR.
ED	FLOOR DRAIN	SIOUX CHIEF / ZURN	832-35D-NR #ZN415-B-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 GRABS IN CUSTOMER AREAS WITH VANDAL RESISTANT SCREWS.
ES	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.
IP	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 FLOOR 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.

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	REHEAT/MAKING	
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	BEZ	WATTS 090QTS	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.

TANK ELECTRIC WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	KW (BTU)	V/PH	GPH @ 70°F RISE	SET POINT (°F)	NOTES (#)
WH-1	RHEEM	ES120-18-G	18 (61,420)	208/3	106	120	(1), (2), (3)

NOTES:
1. WATER HEATER TANK SHALL HAVE A WORKING PRESSURE OF 150PSI, PER MANUFACTURER'S REQUIREMENTS.
2. FURNISH WITH EXPANSION TANK AS SPECIFIED ON PLANS.
3. PROVIDE WITH 1-1/2" COLD WATER AND HOT WATER LINES

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	CONNECTION LOCATION	CONNECTION SIZE	MOUNTING	NOTES (#)
EI	AMTROL	ST-5	2	.45	TOP	3/4"	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.

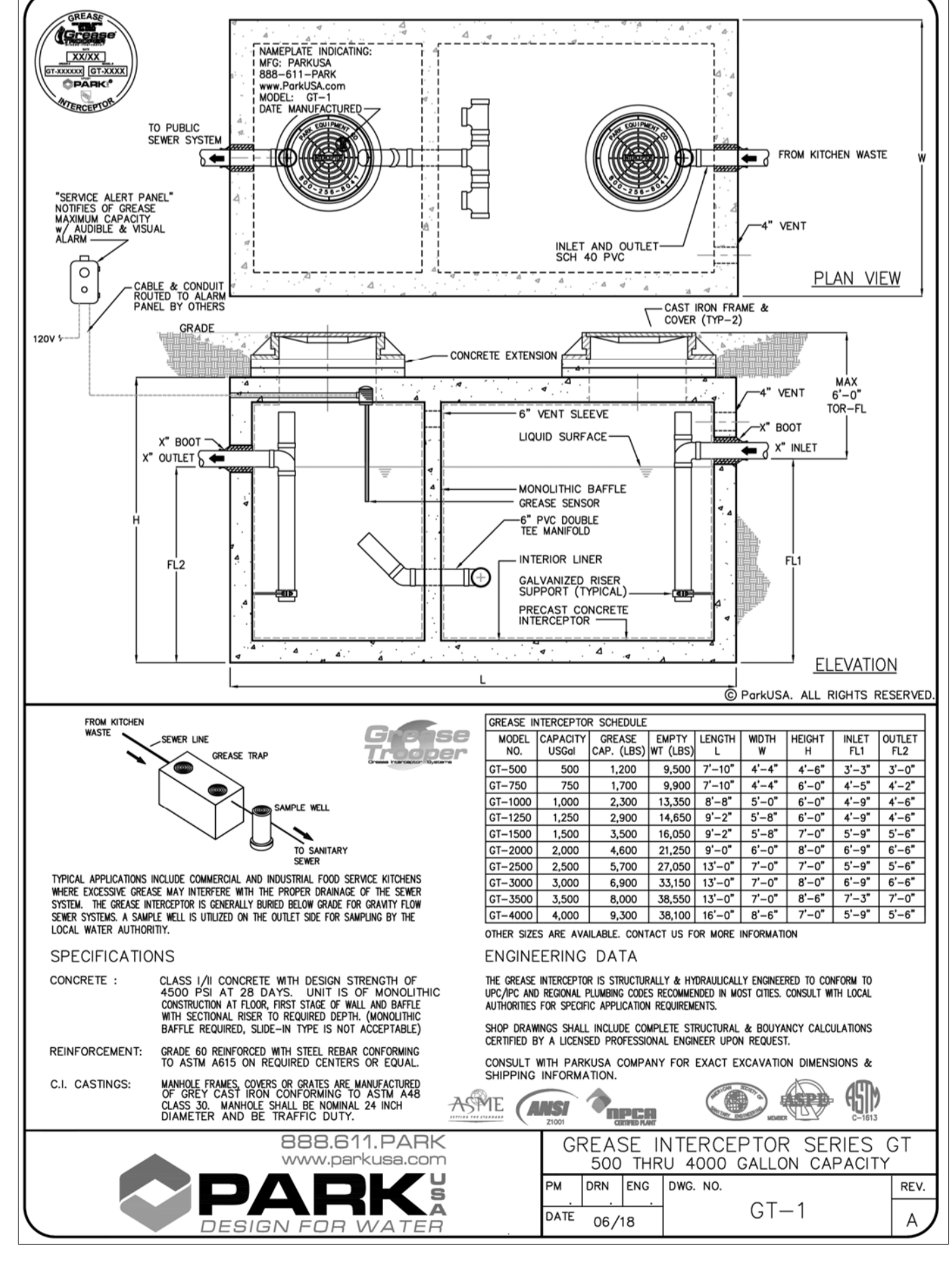
HEAT TRACING

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.

HOT WATER DEMAND CALCULATIONS

FIXTURE	QTY	LENGTH (IN)	WIDTH (IN)	DEPTH (IN)	VOLUME (M ³)	GPH (@37.5%)
3-COMPARTMENT SINK	1	20	15	14	12600	20.45
PRE-RINSE SPRAYER	2	1.15	32	2.5	14.72	29.44
LAVATORY	1	0.5	5	2.2	1.14	1.14
HAND SINK	4	2.2	5	2.2	5.0	20.0
PREP SINK	1	2.2	5	2.2	5.0	5.0
MOP SINK	1	---	---	---	15.0	15.0
DISHWASHER	0	---	---	---	29.6	0.0
TOTAL GPH						91.03
*HOT WATER USE REDUCTION CALCULATIONS: GPH = (MNF. RATE x WATER USAGE VALUE) / STD. RATE						
TOTAL GPH	TEMP RISE (°F)	BTU/(LB · °F)	LB/GAL	ELEC EFFICIENCY	BTU/KW·H	MINIMUM KW
91.03	70	1.002	8.33	98%	3412	15.9



ISSUE TABLE

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1	8/01/2023	RESPONSE TO CITY
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4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

REVISIONS

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5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION

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 10750 SANDHILL ROAD, DALLAS, TEXAS 75238
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Project

LOUISIANA KITCHEN

POPEYES

Store Type

US 2112 PROTOTYPE 2112-21

Location

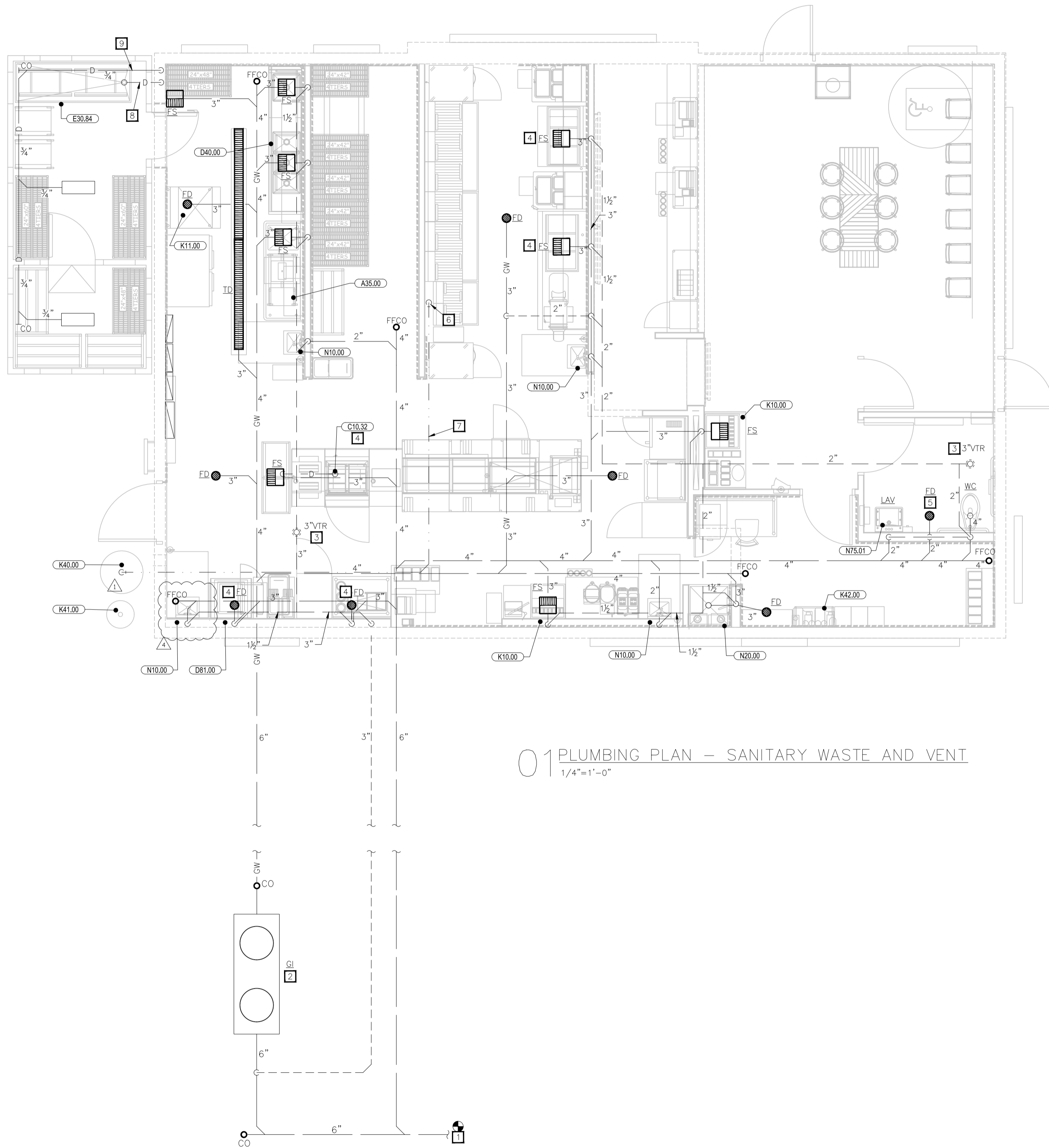
1517 NC 24-87 CAMERON, NC

Drawing Title

PLUMBING SCHEDULES & NOTES

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	P1.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 PLUMBING PLAN - SANITARY WASTE AND VENT
1/4" = 1'-0"

PLUMBING KEY NOTES

1. CONNECT TO SANITARY WASTE LINE ON EXTERIOR OF BUILDING PROVIDED BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. PROVIDE 1500 GALLON 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/FLOOR DRAIN. 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	4	1	4
3" FLOOR SINK	9	5	45
3" TRENCH DRAIN (EMERGENCY)	1	-	-
2"/3" FLOOR DRAIN (EMERGENCY)	7	-	-
DFU VALUES PER IPC		DFU TOTAL	57.0

ISSUE TABLE

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5	10/27/2023	HEALTH COMMENTS

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Company Logo

Project

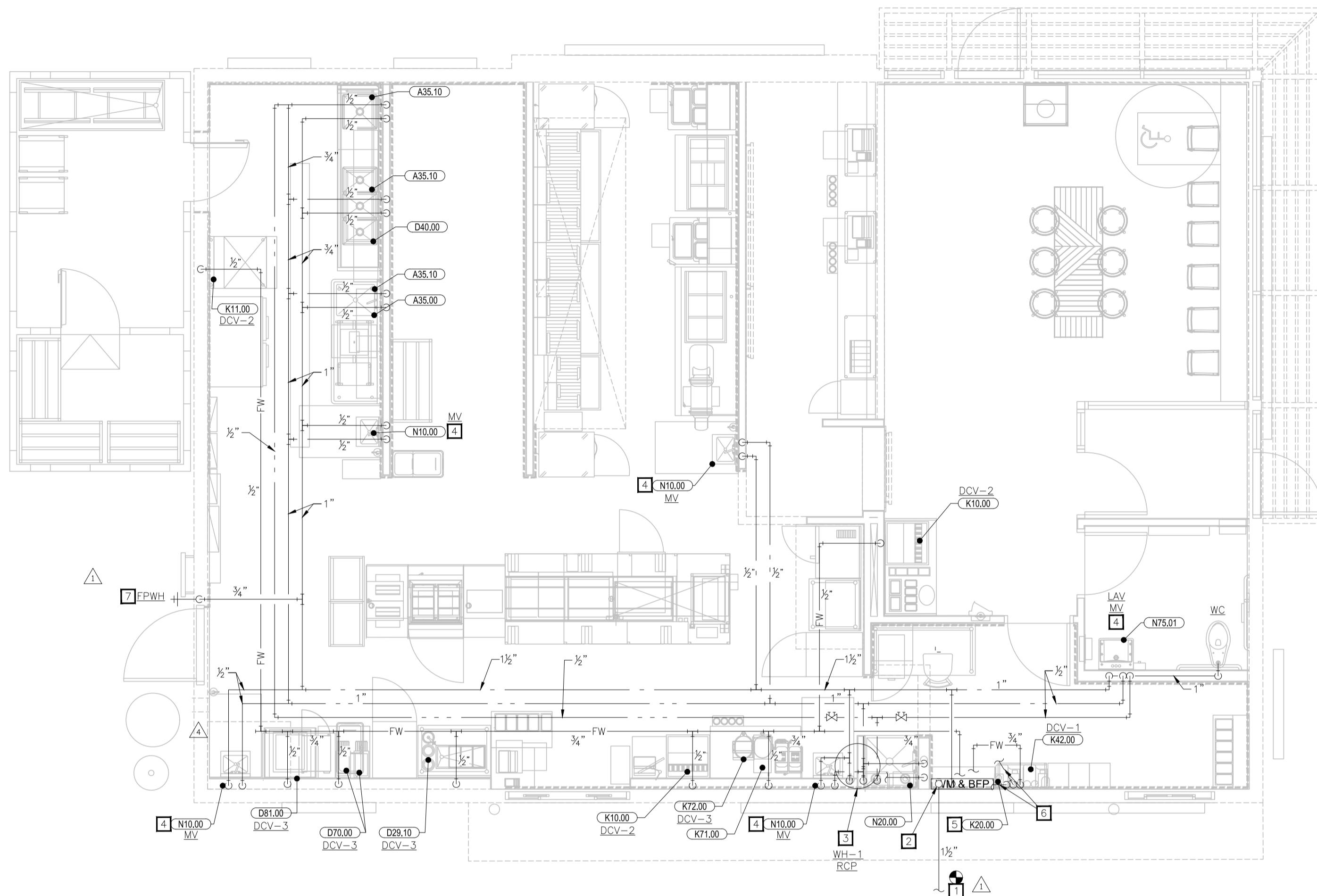
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
PLUMBING PLAN -
SANITARY WASTE AND
VENT

Drawn NI	Checked AH
Scale 1/4" = 1'-0"	Date JUNE 2023
Project No. C22-129	Drawing No. P2.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 PLUMBING PLAN - DOMESTIC WATER
1/4" = 1'-0"

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 3/4" HWR LINES TO WATER HEATER, EXPANSION TANK, AND RECIRCULATING PUMP AS SHOWN PER PLANS AND PER "TANK ELECTRIC WATER HEATER", "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	4	2	8
1-COMP SINK	1	3	3
3-COMP SINK	1	3	3
WAREWASH	1	3	3
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	42.00

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	42
INTERIOR, VERTICAL RISE	10.0
ALLOWANCE FOR FITTINGS, ETC. (LENGTH X 0.25)	13.0
TOTAL	265.0
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)	9.7

* 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.

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

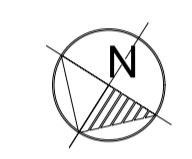
REVISIONS

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POPEYES

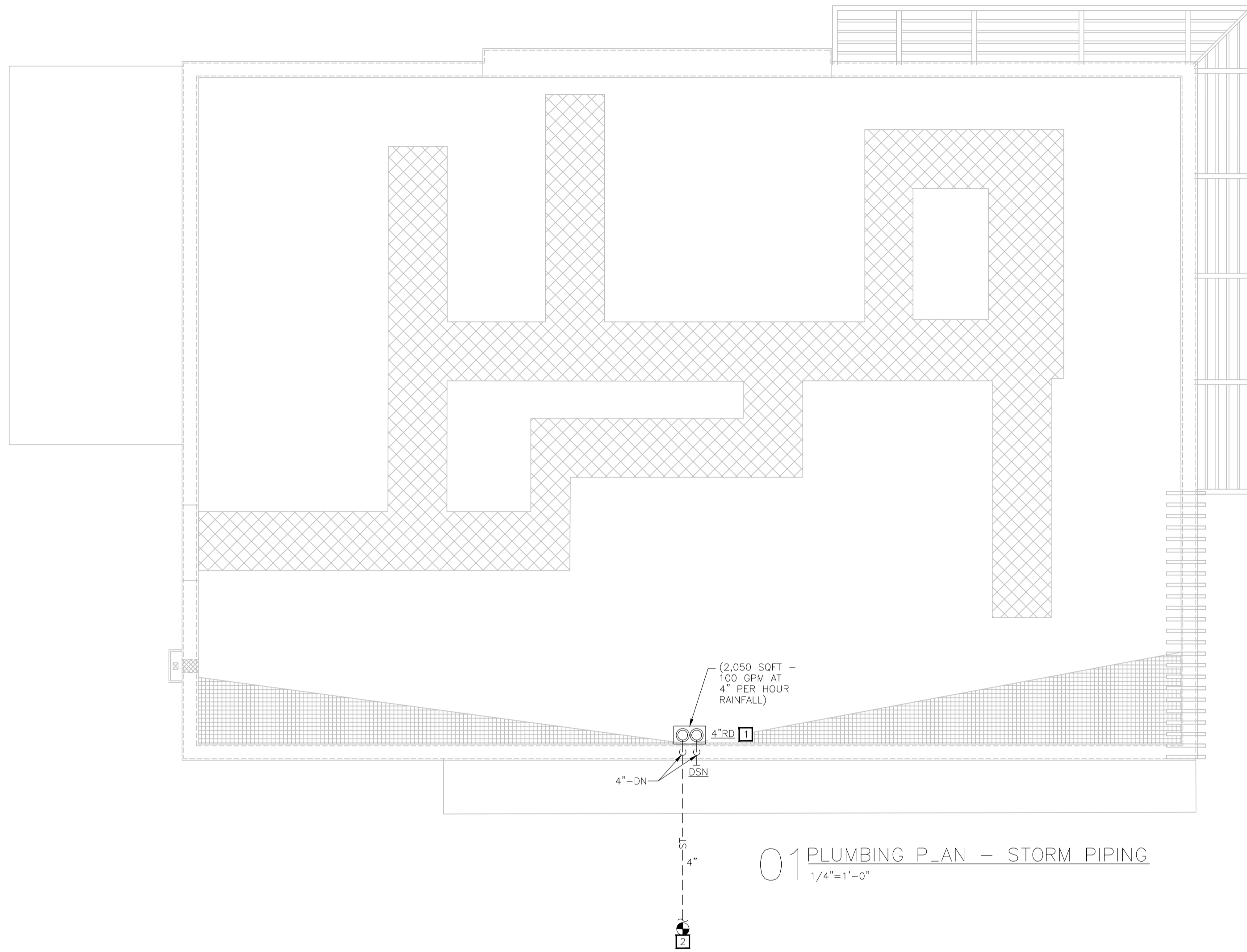
Store Type **US 2112 PROTOTYPE 2112-21**

Location **1517 NC 24-87 CAMERON, NC**

Drawing Title **PLUMBING PLAN - DOMESTIC WATER**

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	P2.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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 CONNECTION LOCATION.

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

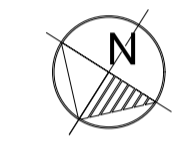
REVISIONS

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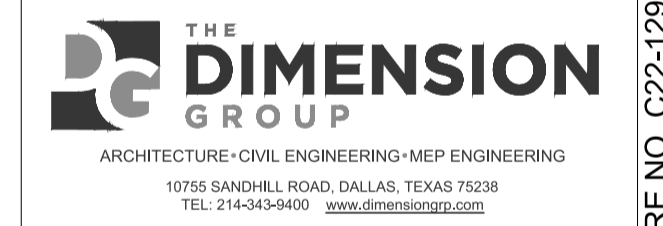
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Store Type

US 2112 PROTOTYPE
2112-21

Location

1517 NC 24-87
CAMERON, NC

Drawing Title

PLUMBING PLAN - STORM PIPING

Drawn

NI

Checked

AH

Scale

1/4" = 1'-0"

Date

JUNE 2023

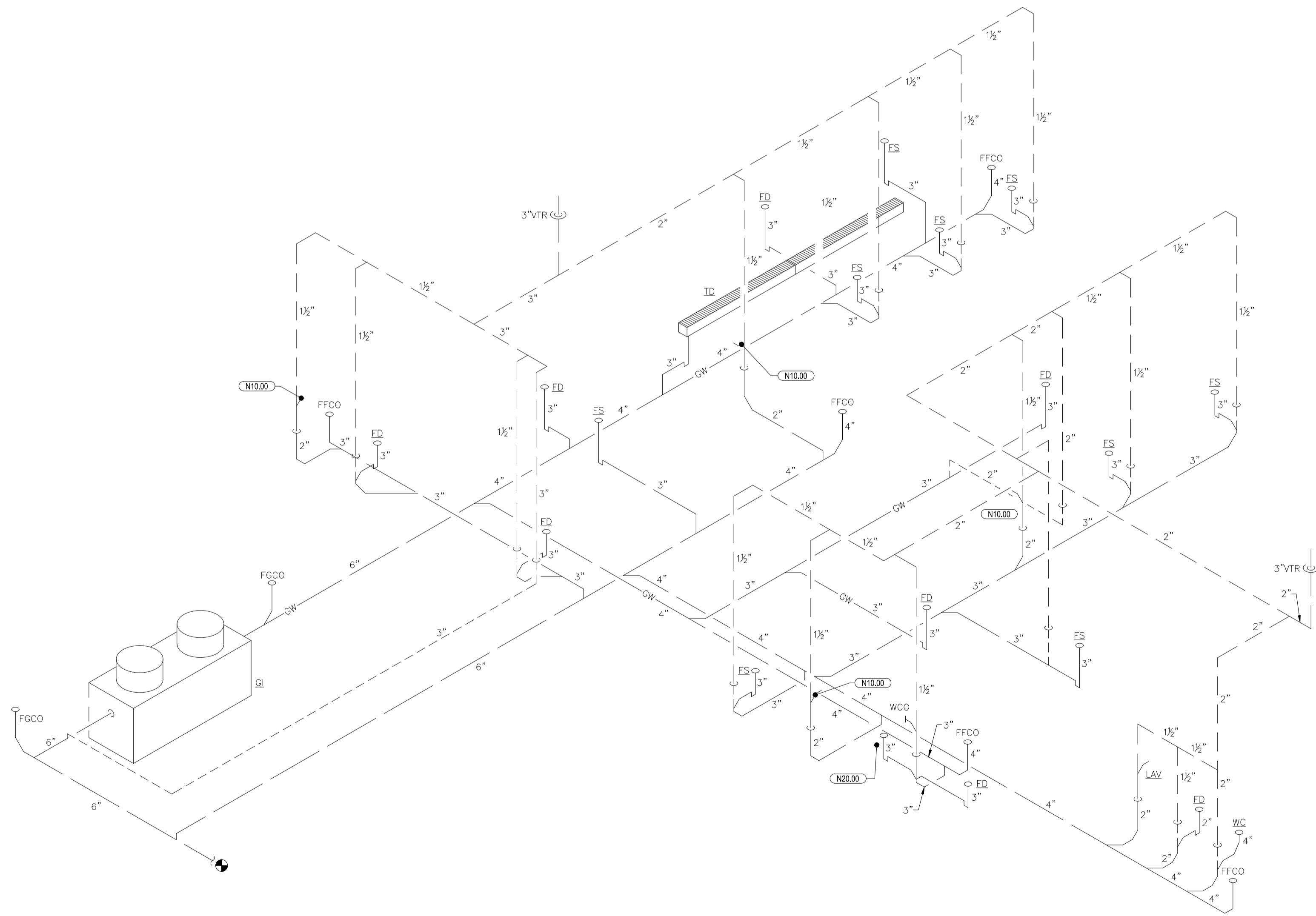
Project No.

C22-129

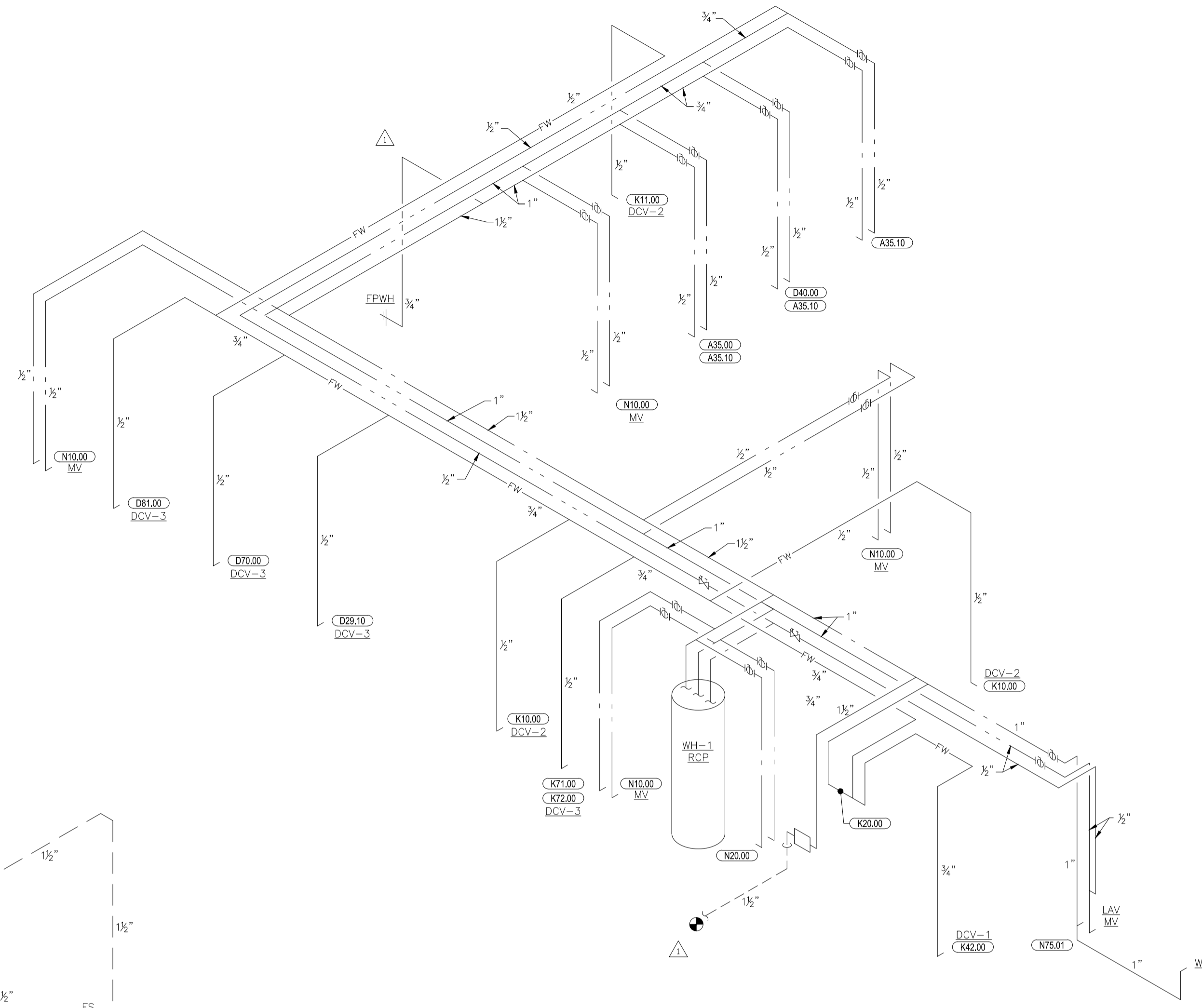
Drawing No.

P2.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 SANITARY WASTE AND VENT RISER
1/4"=1'-0"



02 DOMESTIC WATER RISER
1/4"=1'-0"

ISSUE TABLE		
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TEL: 214-343-9900 www.thedimensiongroup.com

Project

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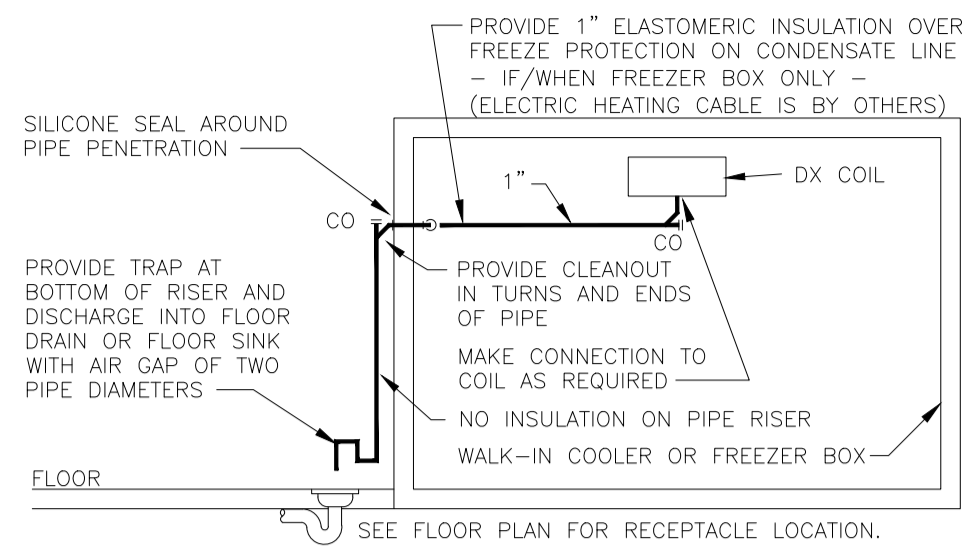
Store Type
US 2112 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
PLUMBING RISERS

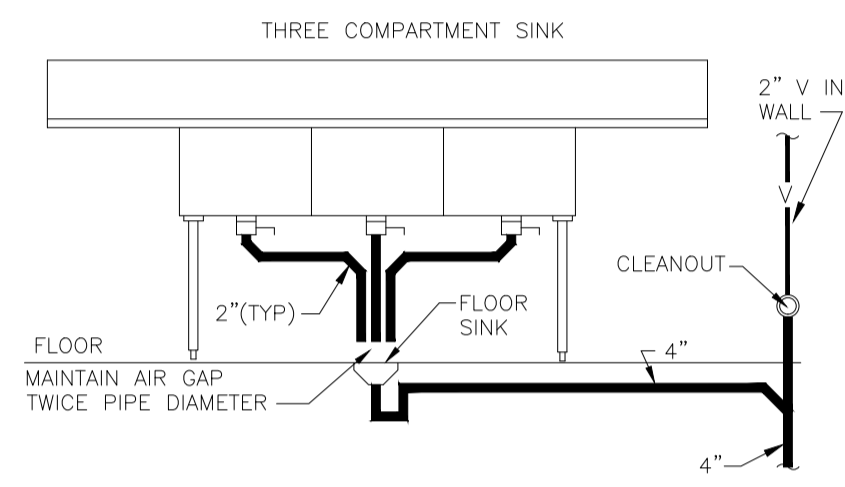
Drawn NI	Checked AH
Scale	Date JUNE 2023
Project No. C22-129	Drawing No. P3.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



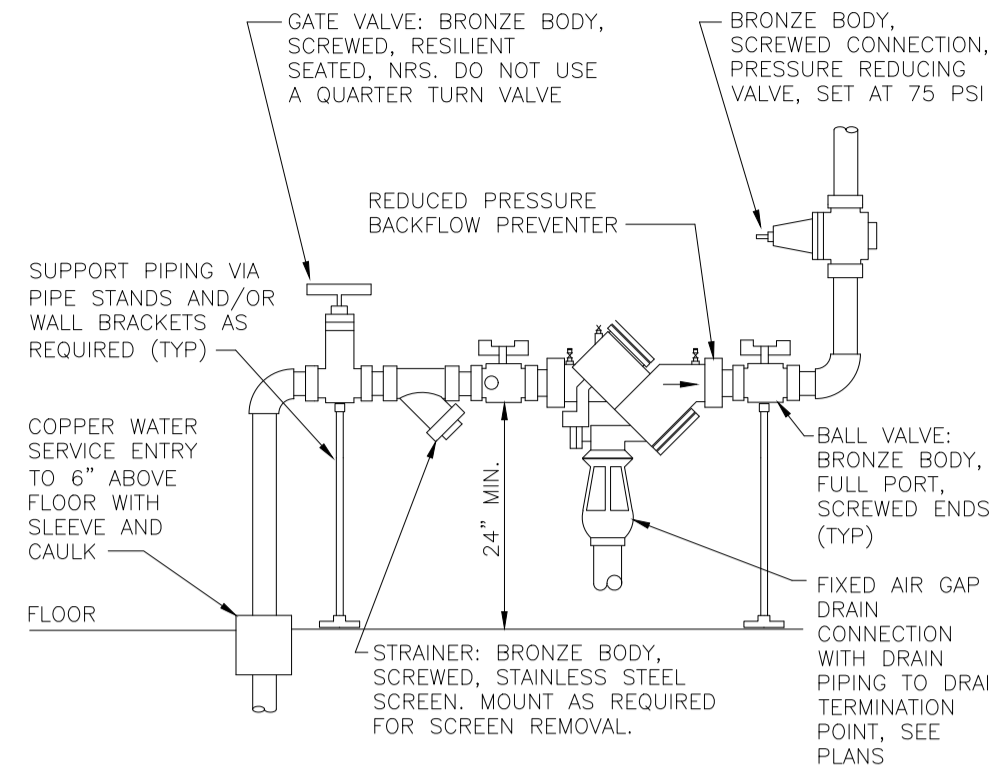
INSTALL PIPE HIGH AS POSSIBLE, ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS. USE TYPE 'M' HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.

11 WALK-IN COOLER/FREEZER DRAIN
NOT TO SCALE



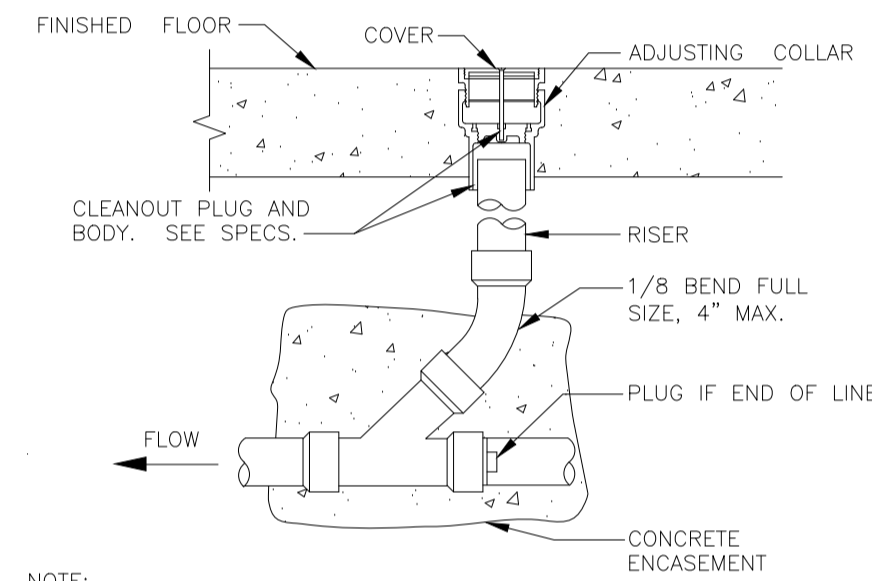
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS. UTILIZE HUBLESS CAST IRON PIPE, FITTINGS AND CONNECTORS FOR SINK CONNECTIONS.

15 3-COMP SINK
NOT TO SCALE



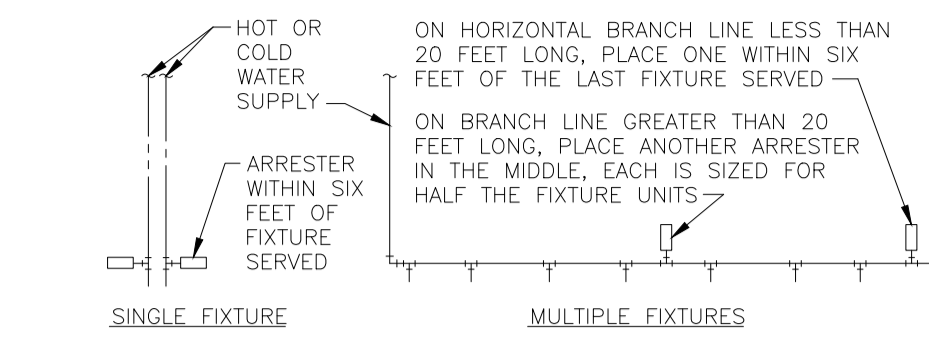
DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. PROVIDE BACKFLOW PREVENTER OF TYPE AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES. PROVIDE PRESSURE REDUCING VALVE ONLY IF PRESSURE EXCEEDS 80 PSI - VERIFY. STRAINER AND REDUCING VALVE MAY BE INSTALLED IN VERTICAL PIPE IF SPACE LIMITATIONS REQUIRE IT. CLEAN 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



NOTE: CLEANOUT COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

14 FLOOR CLEAN-OUT
NOT TO SCALE

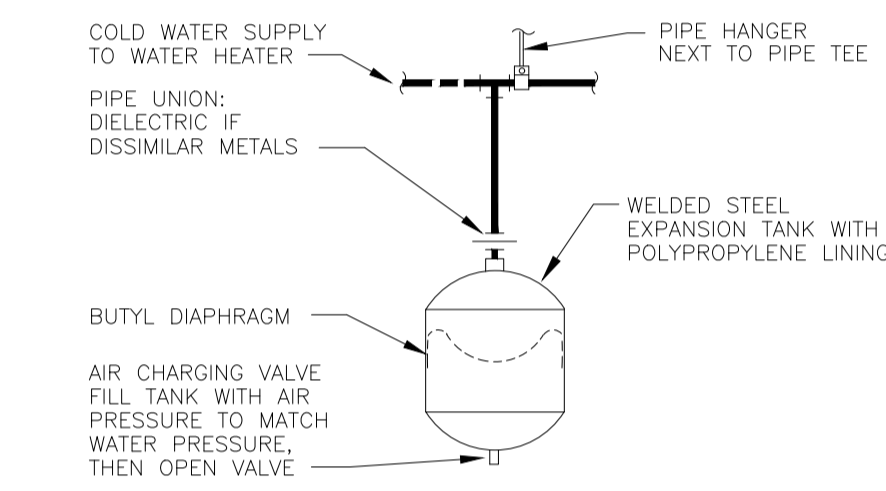


PDI SIZE	FIXTURE UNIT LOAD
AA	1-3
A	4-11
B	12-32
C	33-60
D	61-113
E	114-154
F	155-330

FIXTURE	FIXTURE UNIT TABULATION	
	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/BATH/TUB	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.)

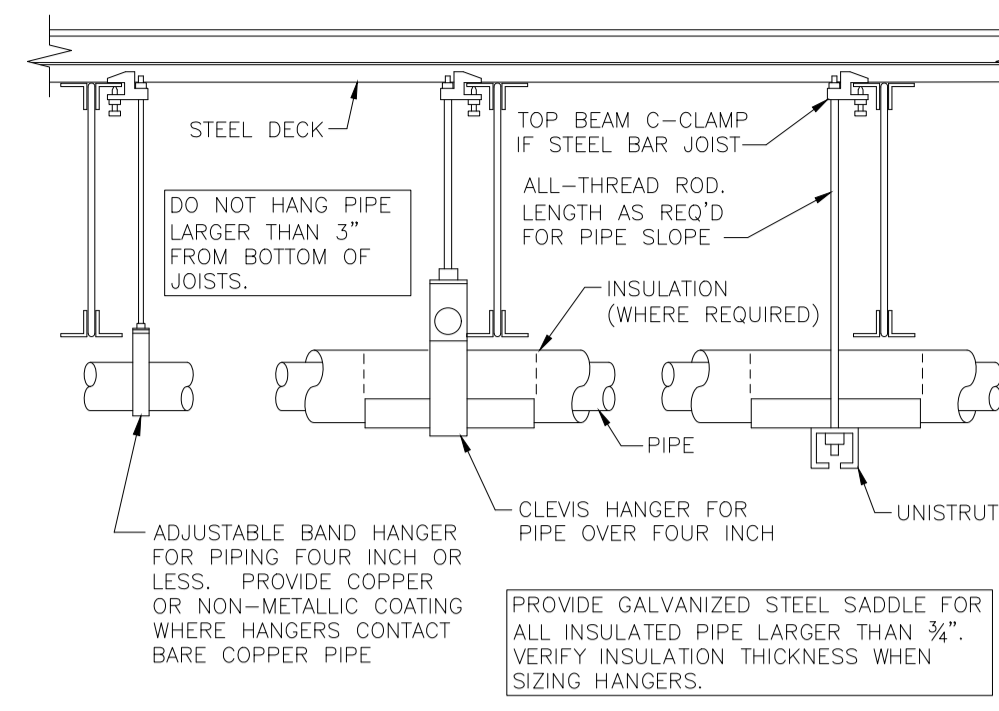
09 WATER HAMMER ARRESTERS
NOT TO SCALE



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.

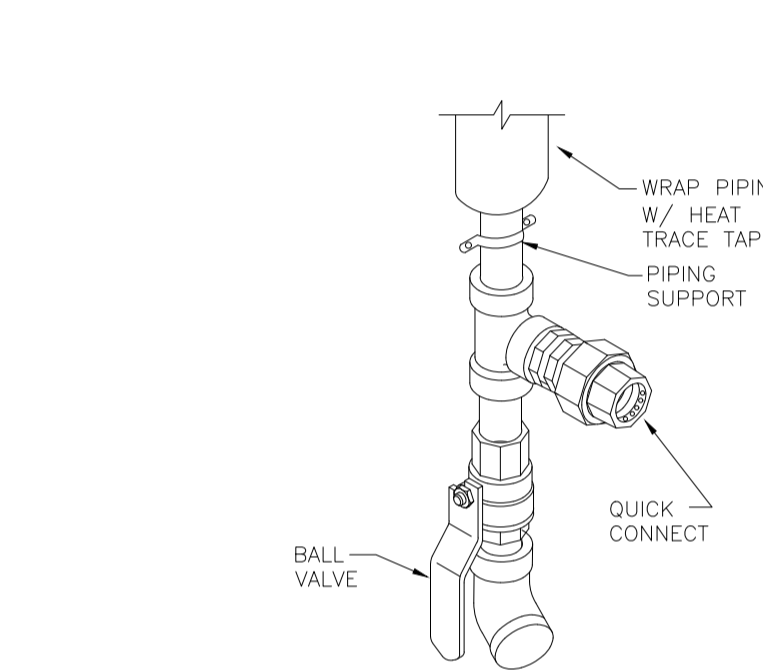
EXPANSION TANK INSTALLATION SHALL OCCUR ONLY WHEN THERE IS A BACKFLOW PREVENTION DEVICE INSTALLED WITHIN THE TENANT SPACE WATER SYSTEM OR BUILDING WATER SYSTEM.

10 SMALL EXPANSION TANK
NOT TO SCALE

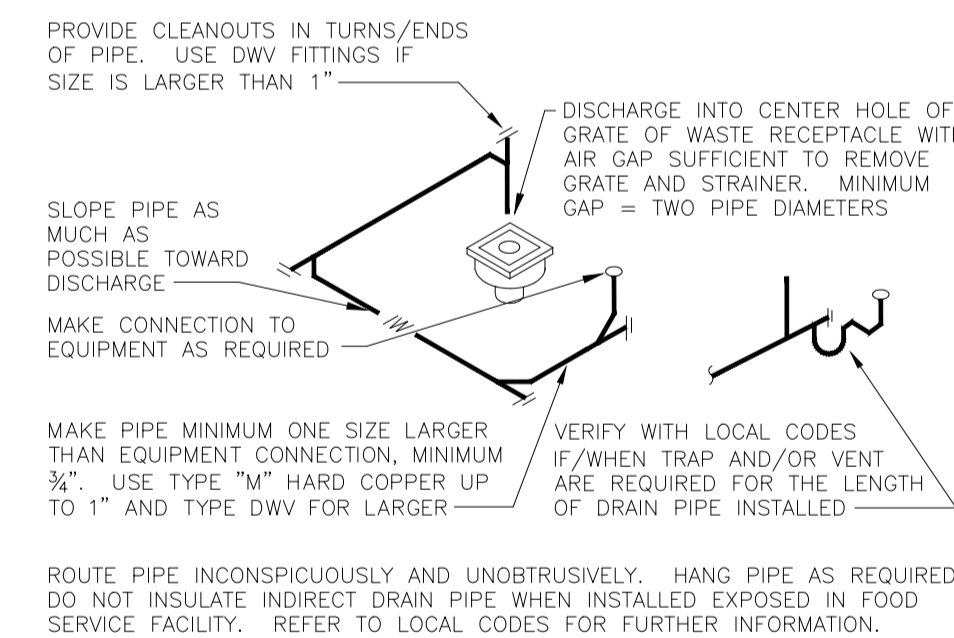


PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4\"/>

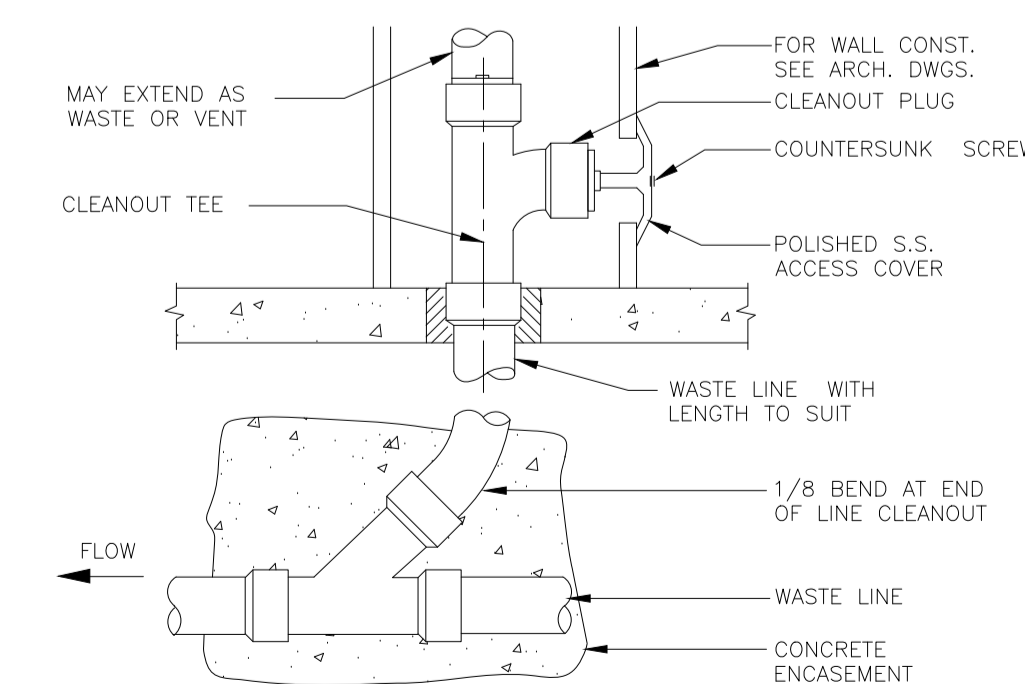
05 PIPE HANGERS
NOT TO SCALE



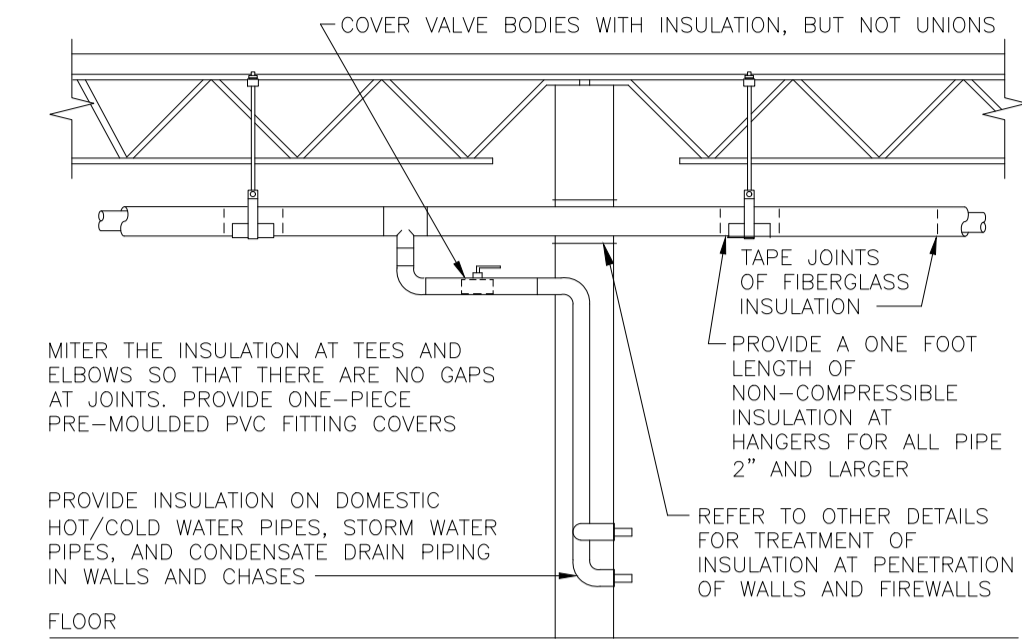
06 USED COOKING OIL RECOVERY
NOT TO SCALE



07 INDIRECT DRAIN
NOT TO SCALE

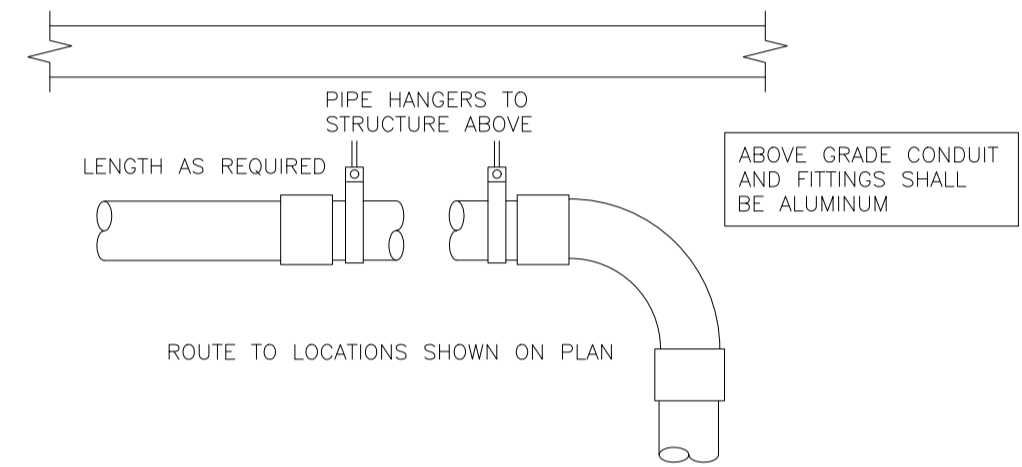


08 WALL CLEAN-OUT
NOT TO SCALE



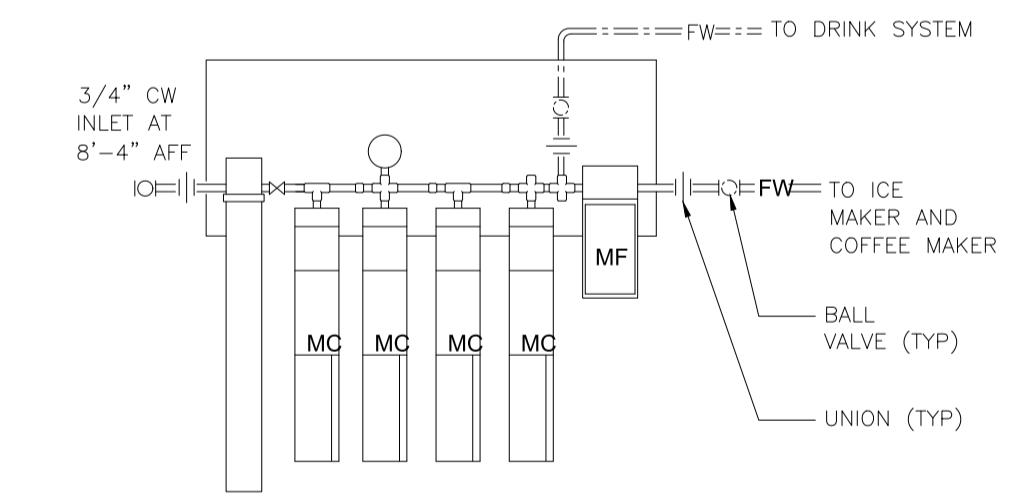
PROVIDE INSULATION ON DOMESTIC HOT/COLD WATER PIPES, STORM WATER PIPES, AND CONDENSATE DRAIN PIPING IN WALLS AND CHASES - REFER TO OTHER DETAILS FOR INSULATION AT PENETRATION OF WALLS AND FIREWALLS

01 PIPE INSULATION
NOT TO SCALE



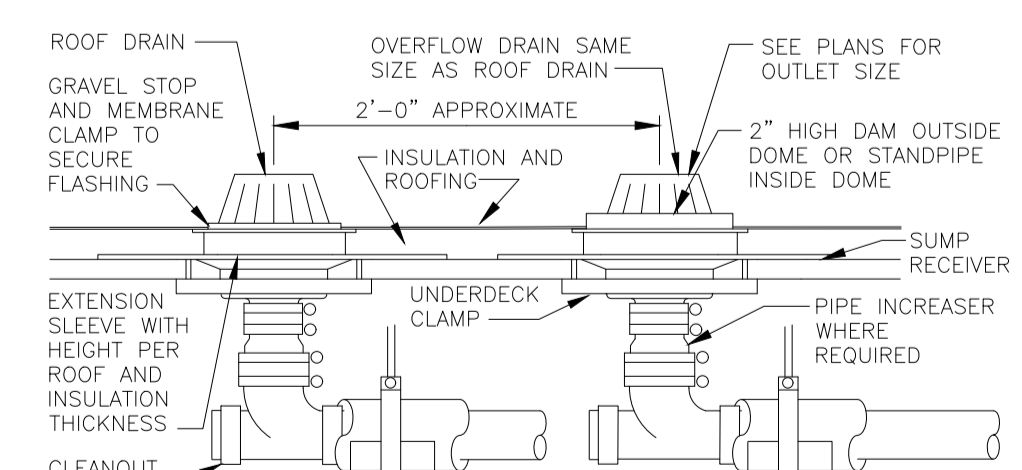
PROVIDE ALUMINUM BEVERAGE CONDUIT AND FITTINGS EQUAL TO BEVSTREAM SYSTEM (WWW.BEVSTREAM.COM). USE MINIMUM QUANTITY OF FITTINGS WITH LONG SWEEP ELBOWS AT BOTH ENDS WITH A MINIMUM RADIUS OF 30\"/>

02 BEVERAGE CONDUIT - ABOVE SLAB
NOT TO SCALE



REFER TO KITCHEN EQUIPMENT DRAWINGS FOR FILTER REQUIREMENTS.

03 WATER FILTER
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.

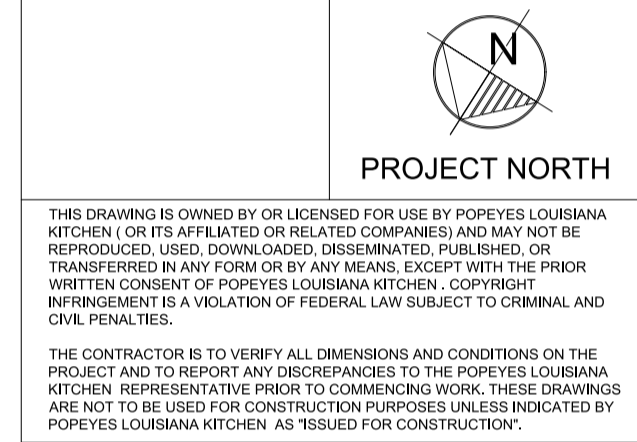
04 ROOF DRAIN AND OVERFLOW
NOT TO SCALE

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

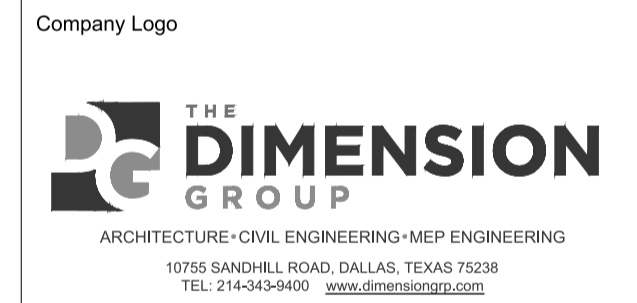
REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION



10.30.2023



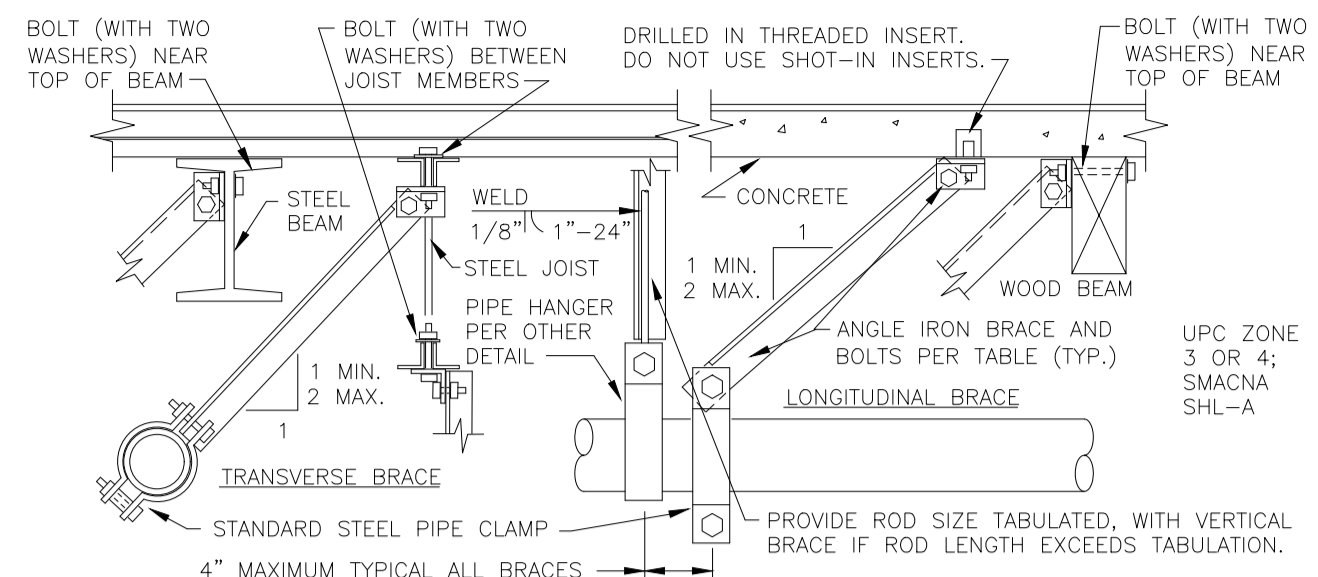
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
PLUMBING DETAILS

Drawn	Checked
NI	AH
Scale	Date
	JUNE 2023
Project No.	Drawing No.
C22-129	P4.1

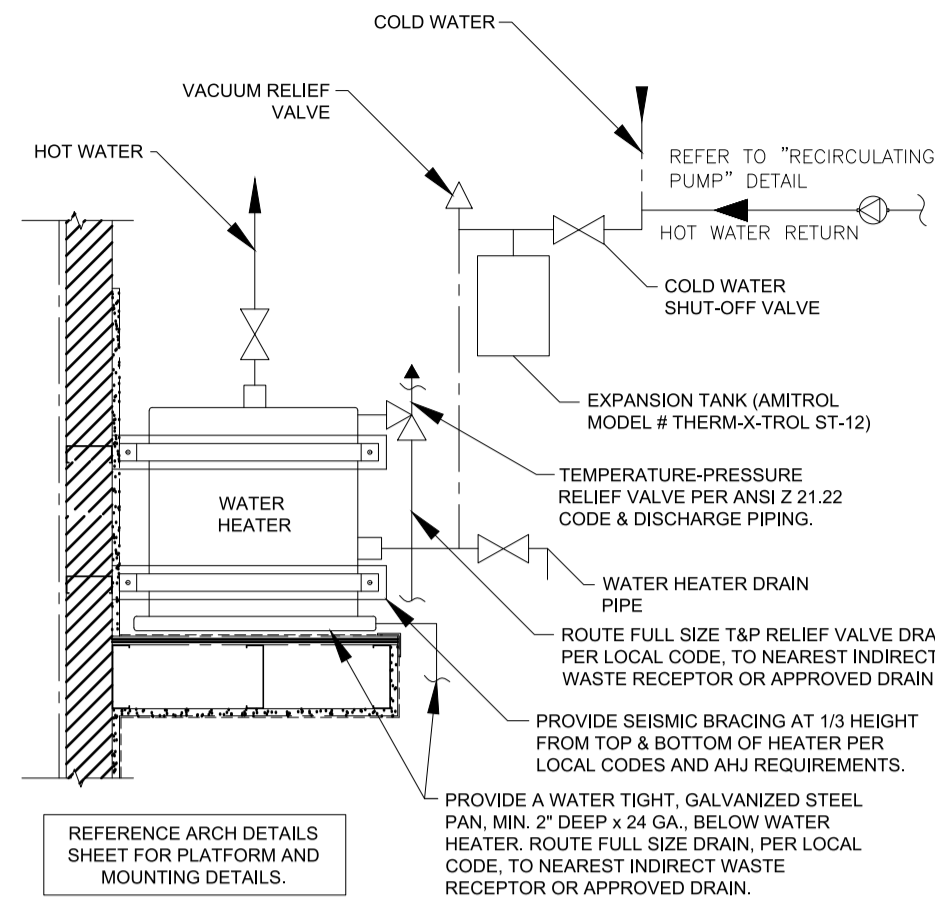
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



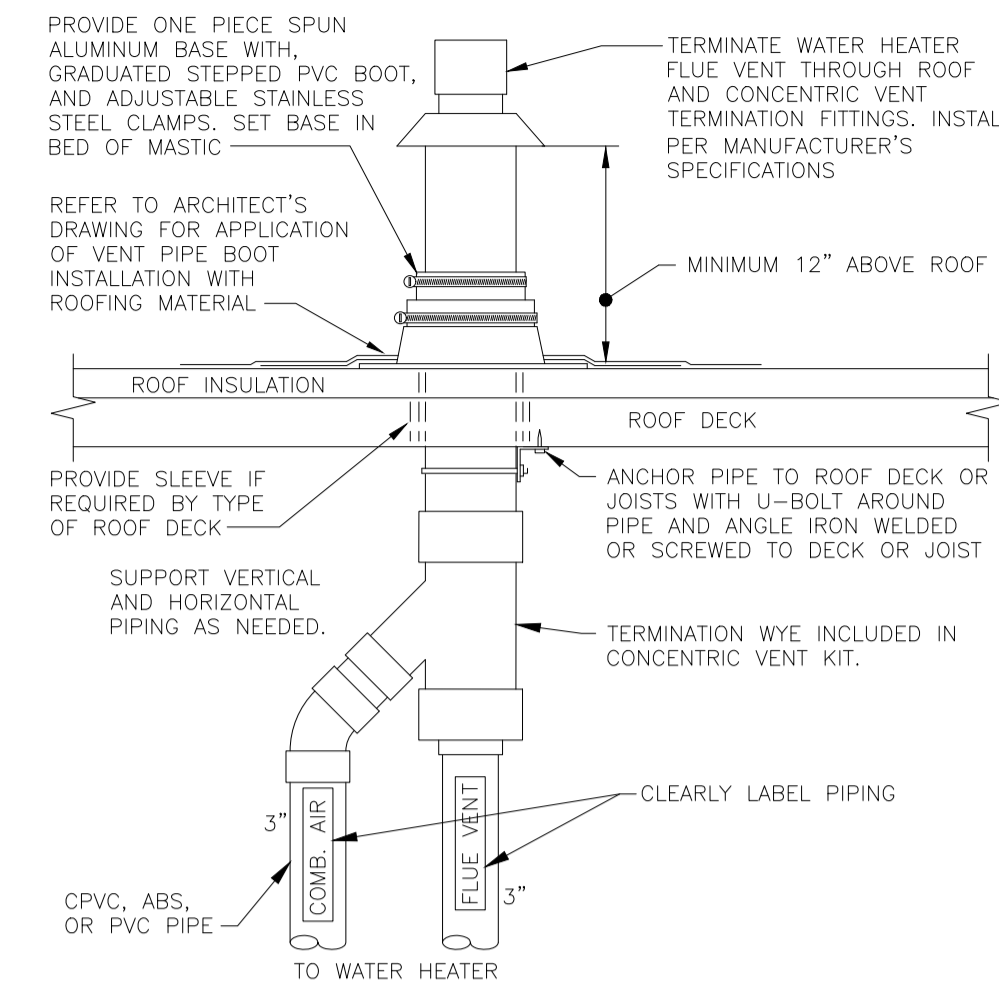
PIPE SIZE	SPACING TR. LO.	TRANSVERSE BRACE	LONGITUDINAL BRACE	BOLT SIZE	ROD SIZE	MAX ROD LENGTH	VERTICAL BRACE
1" TO 2"	20'	2"x2"x18GA	2"x2"x18GA	1/4"	3/8"	20"	2"x2"x18GA
2-1/2" TO 3"	40'	2-1/2x2-1/2x16GA	2-1/2x2-1/2x16GA	3/8"	1/2"	25"	2"x2"x18GA
4" TO 5"	40'	2-1/2x2-1/2x16GA	2-1/2x2-1/2x12GA	1/2"	5/8"	31"	2"x2"x18GA
6"	40'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	1/2"	3/4"	37"	2-1/2x2-1/2x16GA
8"	40'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	5/8"	7/8"	43"	2-1/2x2-1/2x12GA
10"	20'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	3/4"	7/8"	43"	2-1/2x2-1/2x12GA
12"	20'	3"x3"x12GA	3"x3"x12GA	3/4"	7/8"	43"	2-1/2x2-1/2x12GA
14"	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

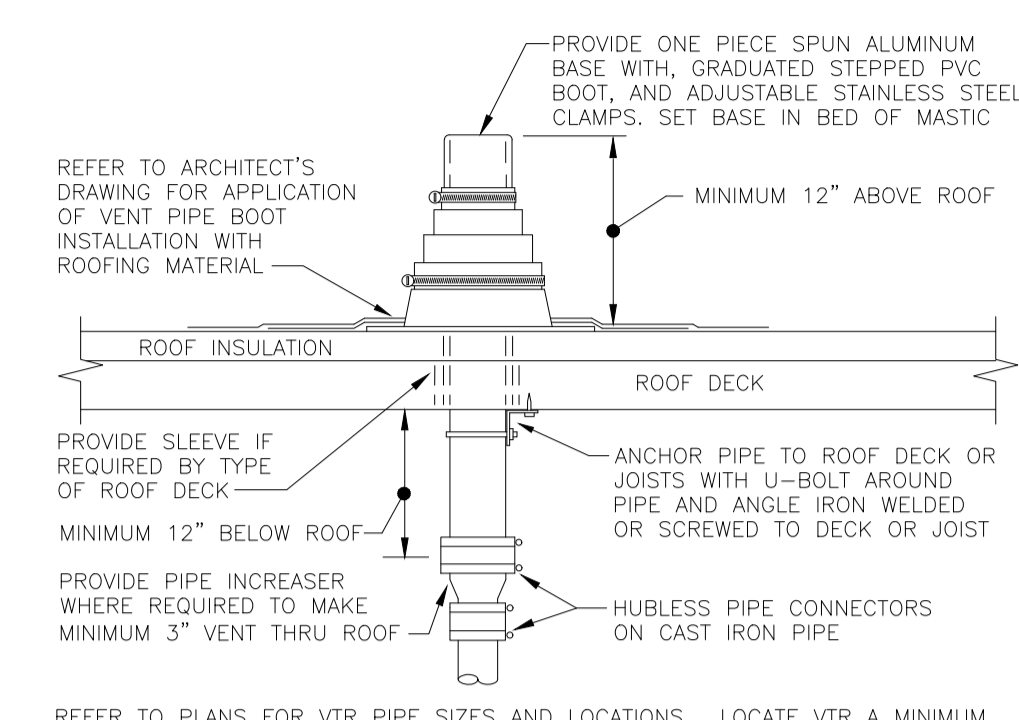


09 TANK ELECTRIC WATER HEATER NOT TO SCALE



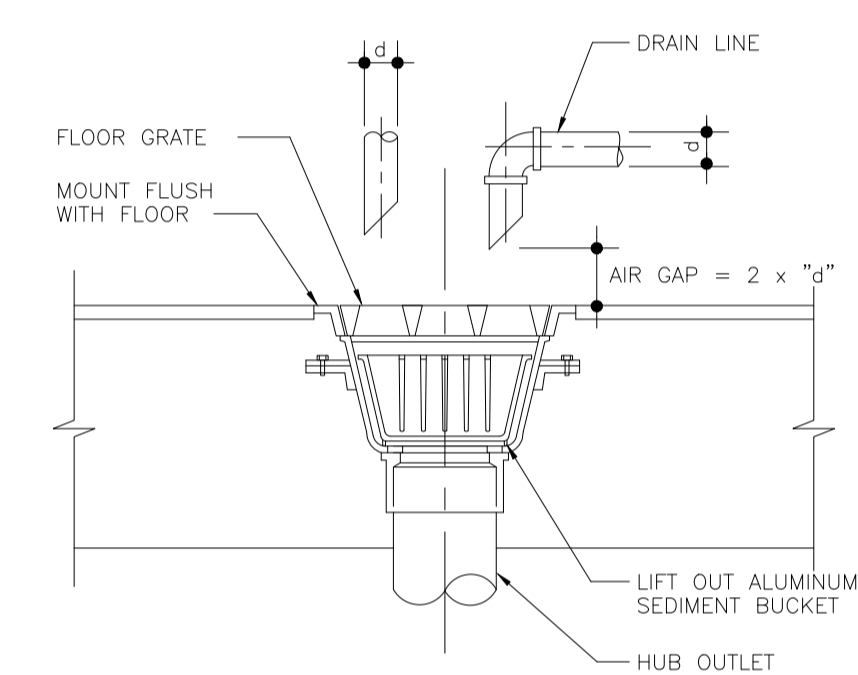
REFER TO PLANS FOR WATER HEATER FLUE VENT PIPE SIZES AND LOCATIONS. LOCATE CONCENTRIC VENT A MINIMUM OF 10 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) AND ONE FOOT FROM ANY VERTICAL SURFACE. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.

05 CONCENTRIC VENT NOT TO SCALE

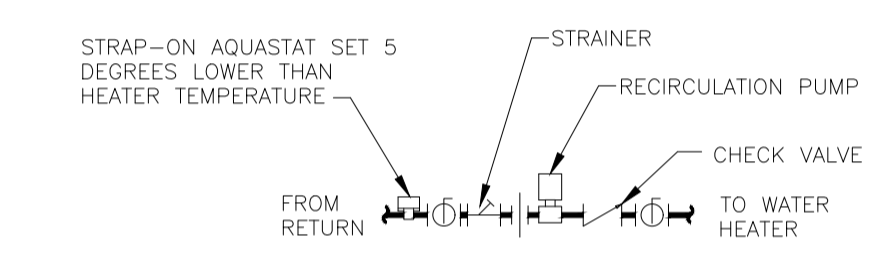


REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR A MINIMUM OF 20 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE 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



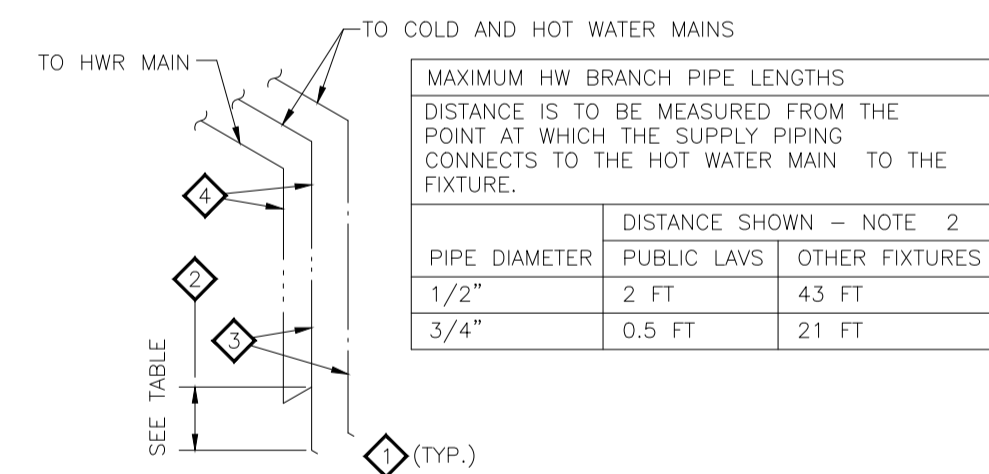
10 FLOOR SINK NOT TO SCALE



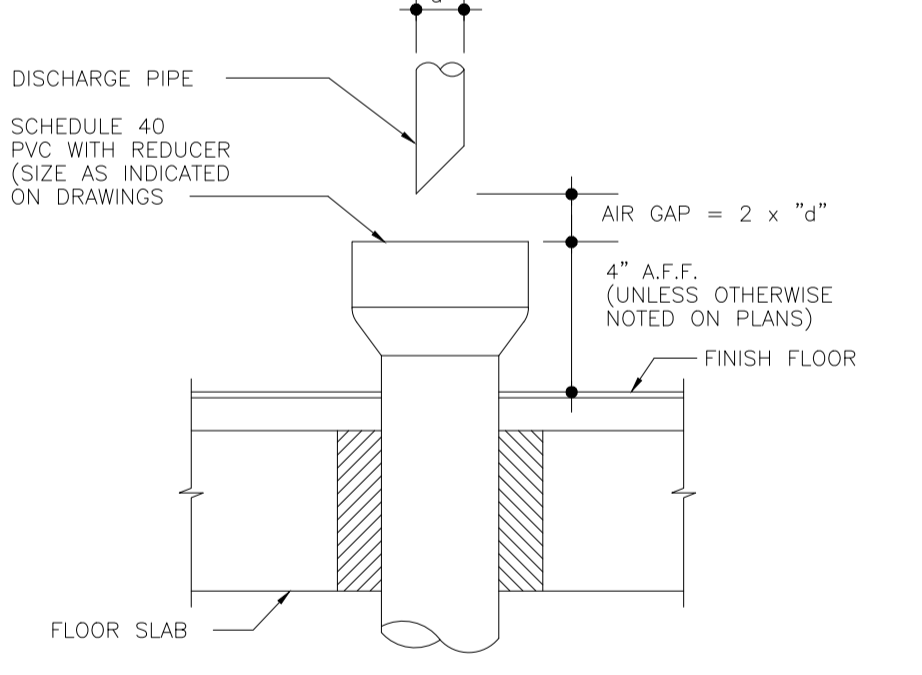
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO WATER HEATER DETAIL FOR MORE INFORMATION.

06 RECIRCULATION PUMP NOT TO SCALE

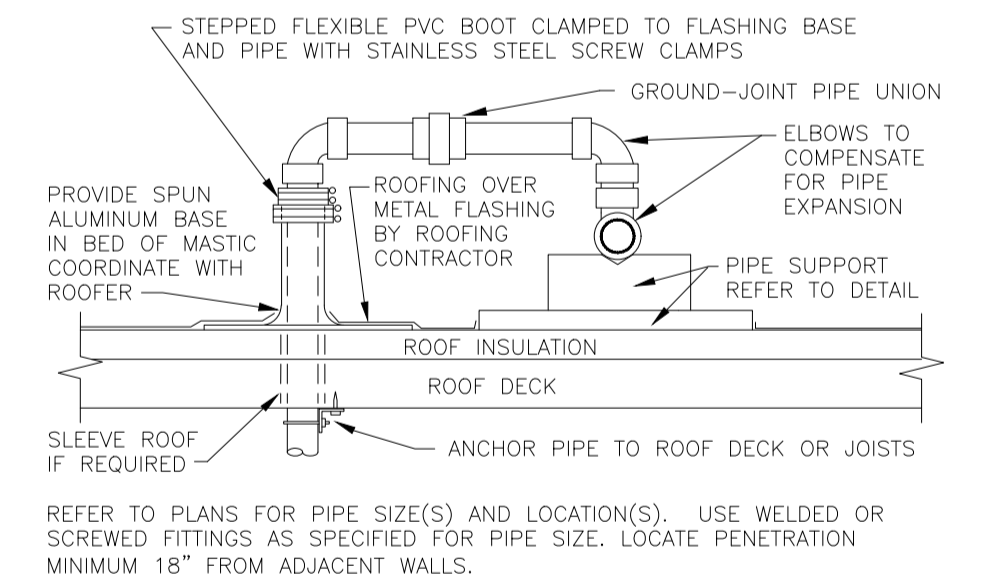
14 NOT USED NOT TO SCALE



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.

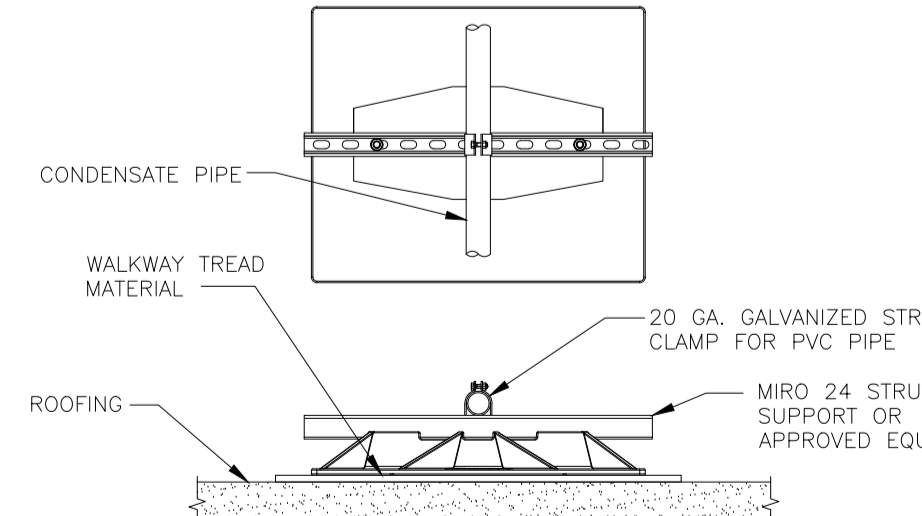


11 HUB DRAIN NOT TO SCALE



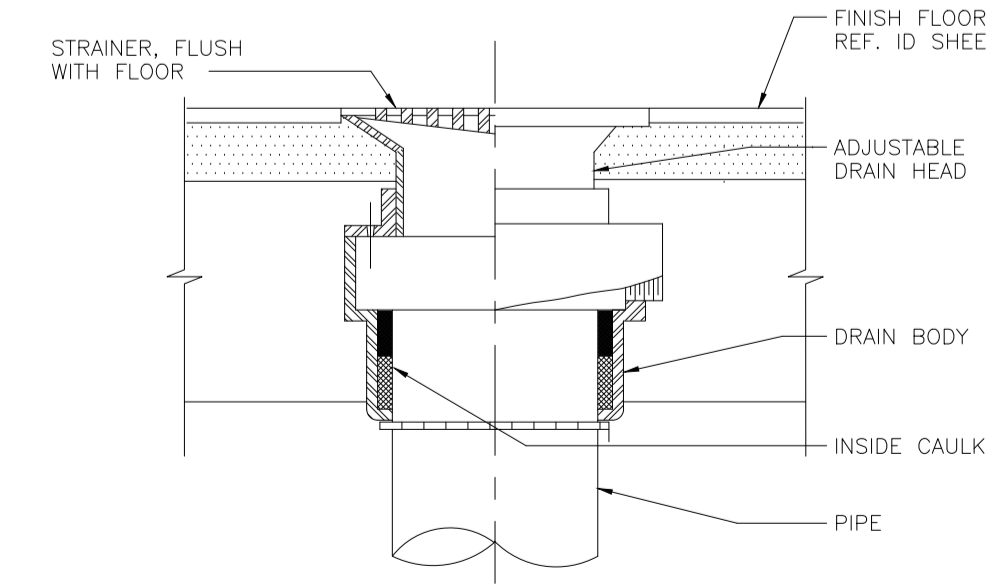
07 ROOF PENETRATION NOT TO SCALE

15 PUBLIC HANDWASHING RECIRC. NOT TO SCALE



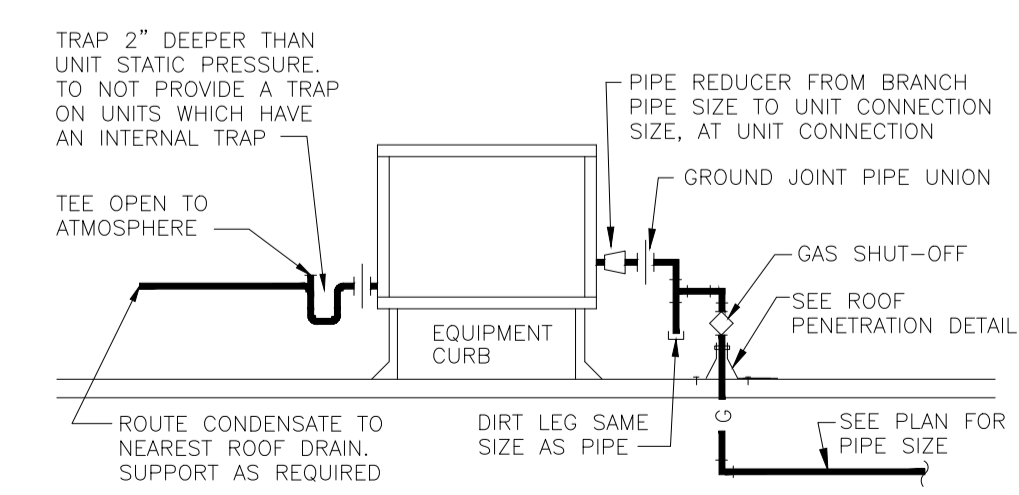
NOTES
1. SUPPORT REQUIRED 10'-0" O.C. AND AT ALL CHANGES IN DIRECTION.
2. INCREASE IN HEIGHT AS REQUIRED FOR ROUTING ABOVE ROOF MOUNTED ACCESSORIES SUCH AS EXPANSION JOINTS AND TO ACCOMMODATE SLOPE.

12 ROOF CONDENSATE PIPE SUPPORT NOT TO SCALE



08 FLOOR DRAIN NOT TO SCALE

03 NOT USED 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/yyyy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION

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".

10.30.2023

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER ASSOCIATION

Company Logo

THE DIMENSION GROUP
ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
10750 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-643-9600 www.thedimensiongroup.com

Project

LOUISIANA KITCHEN

POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
PLUMBING DETAILS

Drawn	Checked
NI	AH
Scale	Date
	JUNE 2023
Project No.	Drawing No.
C22-129	P4.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

PLUMBING SPECIFICATION

GENERAL PROVISIONS

A. WORK INCLUDES MODIFICATION TO EXISTING PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM...

B. HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

C. INTENT OF THE DRAWINGS IS TO INDICATE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED...

D. COORDINATE WITH WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS AND WITH THE CONSTRAINTS OF EXISTING CONDITIONS OF THE PROJECT SITE.

E. ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED, IS TO PROVIDE POWER WIRING FOR EACH ITEM OF ELECTRICAL EQUIPMENT AND MAKE FINAL CONNECTIONS TO MOTORS.

F. ALL FINISH PAINTING IS TO BE PERFORMED BY GENERAL CONTRACTOR, EXCEPT AS NOTED ELSEWHERE. CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ANY PAINTING DEFACTED BY CONTRACTOR AFTER ORIGINAL PAINTING.

G. ALL WORK SHALL CONFORM TO CODES, RULES, AND REGULATIONS: 1. STATE PLUMBING CODE. 2. LOCAL BUILDING CODE.

3. NATIONAL FIRE PROTECTION ASSOCIATION. 4. CERTAIN CODES AND STANDARDS AS SET UP BY VARIOUS TECHNICAL SOCIETIES SUCH AS ASME, ASHRAE, ASTM, SMACNA, ARI, AABC, OR IEEE. 5. FEDERAL OCCUPATIONAL SAFETY AND HEALTH STANDARDS. 6. LOCAL INSPECTOR'S REQUIREMENTS. 7. STATE INDUSTRIAL COMMISSION REQUIREMENTS. 8. BUILDING INSURING AGENCY REQUIREMENTS.

F. ALL PERMITS REQUIRED BY LAWS, ORDINANCES AND BUILDING CODES HAVING JURISDICTION SHALL BE OBTAINED AT THE PROPER TIME BY AND AT THE EXPENSE OF THIS CONTRACTOR.

G. THIS CONTRACTOR SHALL OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES AND PUBLIC AUTHORITY HAVING JURISDICTION AND SHALL OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME TO THE ARCHITECT AND SHALL PAY ALL FEES, CHARGES, ASSESSMENTS AND OTHER EXPENSES IN CONNECTION THEREWITH.

H. PIPING AND EQUIPMENT LAYOUT IS SCHEMATIC. EXACT LOCATIONS ARE DETERMINED BY STRUCTURAL AND OTHER CONDITIONS. DESIGN OF SYSTEM MAY NOT BE CHANGED. ONLY EXACT LOCATION OF PIPING MAY BE REVISED TO SUIT CONSTRUCTION CONDITIONS AND AID IN COORDINATION WITH WORK OF OTHER CONTRACTORS.

I. MATERIALS AND EQUIPMENT INSTALLED IN THE WORK SHALL MEET REQUIREMENTS OF THE CONTRACT DOCUMENTS AND NO MATERIALS OR EQUIPMENT SHALL BE ORDERED UNTIL REVIEWED BY ENGINEER AND/OR ARCHITECT.

J. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER DOCUMENTS PROVIDED BY THE OWNER/ARCHITECT/CONTRACTOR.

1. EXPANSION TANK 2. DRAINS AND CLEANOUTS 3. VALVES 4. ALL PLUMBING FIXTURES, FAUCETS AND FITTINGS 5. WATER HEATER 6. PIPE INSULATION 7. GREASE INTERCEPTOR

K. CATALOG DATA FOR EQUIPMENT REVIEWED BY THE ARCHITECT SHALL NOT SUPERSEDE THE ENGINEER'S CONTRACT DOCUMENTS. REVIEW OF THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS, PROVIDING PROPER CLEARANCE FABRICATION PROCESS AND COORDINATION WITH OTHER TRADES.

L. WHEN SUBMITTED FOR ARCHITECT'S REVIEW, SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S CERTIFICATION THAT:

1. SHOP DRAWINGS HAVE BEEN REVIEWED, CHECKED, AND APPROVED. 2. CONTRACTOR'S WORK IS IN HARMONY WITH THE REQUIREMENTS OF THE PROJECT AND WITH THE PROVISIONS OF THE CONTRACT DOCUMENTS. 3. CONTRACTOR HAS VERIFIED ALL FIELD MEASUREMENTS AND CONSTRUCTION CRITERIA, MATERIALS, CATALOG NUMBERS AND SIMILAR DATA.

M. CONTRACTOR SHALL ALSO CERTIFY THAT THE WORK REPRESENTED BY THE SHOP DRAWINGS IS RECOMMENDED BY THE CONTRACTOR AND THE CONTRACTOR'S GUARANTEE WILL FULLY APPLY.

N. ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE SITE AND ALL CONDITIONS THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT. THE SUBMITTING OF A BID AUTOMATICALLY IMPLIES THAT THIS EXAMINATION OF SITE HAS BEEN DONE.

O. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES AND NOTE CONDITIONS WHICH WOULD AFFECT THE WORK. ALL DISCREPANCIES SHALL THEN BE REPORTED PRIOR TO THE BID AWARD.

P. PROVIDE INSTRUCTION TO OWNER'S OPERATING PERSONNEL AS NECESSARY, SHOWING LOCATIONS AND PROPER OPERATION OF MAJOR ITEMS OF EQUIPMENT AND SYSTEM COMPONENTS AND REFERRING TO THE OPERATING INSTRUCTION MANUAL DESCRIBED BELOW AS A GUIDE.

Q. COMPIL A WRITTEN MANUAL OF OPERATING INSTRUCTIONS INCLUDING COPIES OF SHOP DRAWINGS AND A LISTING OF EQUIPMENT SUPPLIERS. ASSEMBLE IN 8-1/2" X 11" HARD BACKED INDEXED BINDER. MATERIAL SHALL BE AS FOLLOWS:

1. TITLE PAGE: TITLE OF JOB, TENANT, ADDRESS, DATE OF SUBMISSION, CONTRACTOR AND ENGINEER. 2. INDEX. 3. ST OF MAJOR EQUIPMENT USED IN PROJECT ACCOMPANIED BY CONTRACTOR PURCHASE ORDER NUMBERS AND SUPPLIERS NAMES AND ADDRESSES. 4. ONE COPY OF EACH SHOP DRAWING GROUPED BY TYPES OF EQUIPMENT, I.E., PLUMBING FIXTURES, VALVES, ETC. 5. SECTION FOR EACH SYSTEM INCLUDING A BRIEF DESCRIPTION OF SYSTEM OPERATION WITH LOCATION OF MAJOR COMPONENTS AND A LIST OF ITEMS IN SYSTEM REQUIRING PERIODIC SERVICE.

R. SUBMIT A COMPLETED COPY TITLED "PLUMBING OPERATING INSTRUCTION MANUAL" ON BINDING EDGE OF BINDER TO ARCHITECT FOR APPROVAL. AFTER ARCHITECT'S REVIEW AND ANY CORRECTIONS REQUIRED ARE COMPLETED, SUBMIT A COPY OF MANUAL, TO OWNER.

FIRESTOPPING

A. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING AROUND ALL OPENINGS FOR PIPES, DUCTS, CONDUITS ETC., INSTALLED BY CONTRACTOR AT ALL FIRE WALLS. FIRESTOPPING SHALL BE PERFORMED BY AN INSTALLER WHO HAS BEEN TRAINED BY MANUFACTURER, OR MANUFACTURER'S REPRESENTATIVE, IN THE INSTALLATION PROCEDURES BASED ON PUBLISHED UL TESTED FIRE STOP SYSTEMS.

B. FIRESTOPPING SHALL MEET THE REQUIREMENTS OF ASTM E-814 OR UL 1479 FIRE TESTS BY A RECOGNIZED TESTING AGENCY. FIRESTOPPING SHALL ALSO CONFORM TO GOVERNING CODES AS FOLLOWS: INTERNATIONAL BUILDING CODE, NFPA 101 - LIFE SAFETY CODE & NFPA 70 - NATIONAL ELECTRIC CODE.

C. PENETRATION

1. CLEAN PENETRATION HOLES OF DIRT, LOOSE MATERIALS AND FOREIGN MATTER WHICH MAY AFFECT BOND OR INSTALLATION.

2. REMOVE COATINGS SUCH AS PAINT, CURING COMPOUNDS, WATER REPELLENT & SEALERS AS REQUIRED.

3. INSTALL BACKING MATERIALS TO PREVENT LIQUID MATERIAL LEAKAGE.

D. APPLICATION 1. PREPARE AND APPLY PENETRATION SEALING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

2. EMPLOY INSTALLATION TECHNIQUES WHICH WILL ENSURE THAT FIRESTOPPING IS DEPOSITED TO FILL AND SEAL HOLES AND OPENINGS.

3. TOOL EXPOSED SURFACES OF APPLIED SEALANT TO SMOOTH FINISH.

4. PROTECT MATERIALS FROM DAMAGE ON SURFACES SUBJECTED TO TRAFFIC.

E. PROVIDE INTUMESCENT SEALANTS AND COLLARS AT OPENINGS INVOLVING PLASTIC OR INSULATED PIPE SIMILAR TO METACAULK SERIES 880 AND 950.

F. FIRESTOPPING BY DOW CORNING, 3M, HILTI OR METACAULK MAY FURNISHED AT CONTRACTOR'S OPTION.

PIPE ANCHORS, HANGERS AND SUPPORTS A. ALL PIPING SHALL BE SEPARATELY HUNG AND SUPPORTED FROM APPROVED STRUCTURAL MEMBERS OR CONCRETE OVERHEAD STRUCTURE ONLY. NO PIPE SHALL BE HUNG FROM ROOF DECK, PIPE, DUCTS OR OTHER COMPONENTS OR EQUIPMENT OF OTHER TRADES.

B. PROVIDE LISTED/APPROVED ADJUSTABLE HANGERS, INSERTS, BRACKETS, CLAMPS, SUPPLEMENTARY STEEL AND OTHER DEVICES REQUIRED FOR PROPER SUPPORT OF ALL PIPE LINES.

C. HANGERS SHALL BE DESIGNED TO ALLOW FOR EXPANSION AND CONTRACTION AND TO ALLOW INSULATION (WHERE APPLICABLE) TO RUN CONTINUOUSLY THROUGH HANGERS.

D. WIRE OR STRAP HANGERS ARE NOT PERMITTED. ADJUST HANGERS SO AS TO DISTRIBUTE WEIGHT LOAD EQUALLY ON ATTACHMENTS.

PLUMBING SYSTEM TESTING A. SYSTEM TESTING SHALL BE PROVIDED AS FOLLOWS:

1. ALL SYSTEMS SHALL BE TESTED PRIOR TO BEING CONCEALED BY ADDITIONAL WORK, FLOOR SLABS, WALLS, OR MECHANICAL SYSTEMS.

2. FURNISH ALL PUMPS FOR AIR AND WATER PRESSURE TESTS ALONG WITH GAUGES AND ANY OTHER REQUIRED TEST EQUIPMENT.

3. TEST SANITARY DRAINAGE AND VENT SYSTEM BY FILLING WITH WATER WITH ALL POINTS IN THE SYSTEM BEING SUBJECT TO PRESSURE OF AT LEAST 10" OF WATER. WATER LEVEL SHALL REMAIN STATIONARY FOR A PERIOD OF ONE HOUR, WITHOUT ANY PIPE OR JOINT LEAKAGE. IF TESTING INDICATES DEFICIENCIES, REPLACE OR REPAIR AS REQUIRED AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

4. TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKSMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

B. REPAIR ANY LEAKING JOINTS AND DEMONSTRATE ACCEPTABLE LEAKAGE TO SATISFACTION OF OWNER'S REPRESENTATIVE AND APPROVING AUTHORITY. FLUSH ALL PIPING BEFORE PLACING INTO OPERATION.

STERILIZATION A. STERILIZE NEW DOMESTIC WATER LINES AFTER INSTALLATION.

B. FURNISH A CERTIFICATE OF STERILIZATION AND APPROVAL FOR HUMAN CONSUMPTION TO BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THIS STATE, REGULARLY EMPLOYED BY TESTING LABORATORY. CERTIFICATE MUST BE GIVEN TO THE ARCHITECT AND OWNER BEFORE FINAL PAYMENT WILL BE MADE.

C. STERILIZATION SHALL BE BY MEANS OF CHLORINE INJECTED INTO WATER SYSTEM NEAR THE SOURCE AND OUTLETS THROUGHOUT THE SYSTEM SHALL BE TESTED TO PROVE PRESENCE OF MINIMUM REQUIREMENTS. LEAVE CHLORINE IN FOR 24 HOURS AND FLUSH OUT SYSTEM UPON COMPLETION OF WORK. STERILIZATION PROCEDURE SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE.

D. STERILIZATION SHALL BE PERFORMED UNDER THE IMMEDIATE SUPERVISION OF A WATER TESTING LABORATORY REGULARLY ENGAGED IN THE SERVICE AND SHALL BE DONE ACCORDING TO THEIR INSTRUCTIONS.

IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT A. STENCILS, LABELS, TAGS, AND COLOR CODES SHALL CONFORM TO ANSI A13.

B. PRODUCTS SHALL BE SETON. EQUAL PRODUCTS BY BRADY MAY BE FURNISHED AT CONTRACTOR'S OPTION.

C. STENCILS FOR EQUIPMENT SHALL BE REUSABLE AND HAVE 1" HIGH CHARACTERS. CHARACTERS SHALL BE PAINTED WHITE OVER A BLACK BACKGROUND. STENCIL ONLY AFTER FINAL PAINTING IS COMPLETE. CHARACTERS SHALL BE LEGIBLE FROM FLOOR. APPLY CLEAR ACRYLIC, LACQUER, OR VARNISH OVER FINISHED STENCIL.

D. FOR PIPING PROVIDE ANSI STANDARD COLOR FLEXIBLE VINYL LABELS WITH PERMANENT PRESSURE SENSITIVE ADHESIVE BACK. LABEL SHALL BE OF SUFFICIENT LENGTH TO ENCLOSE PIPE (AND INSULATION WHEN APPLICABLE) AND OVERLAP ON ITSELF. EACH LABEL SHALL HAVE AT LEAST ONE FLOW DIRECTION ARROW AND SHALL BE PERMANENTLY LABELED WITH PIPE CONTENT.

E. SYSTEM PIPING TO LABELED SHALL INCLUDE THE FOLLOWING: 1. SANITARY WASTE AND VENT (ABOVE GRADE ONLY) 2. STORM AND OVERFLOW PIPING (ABOVE GRADE ONLY) 3. DOMESTIC WATER (INCLUDING COLD, HOT, RECIRCULATING, FILTERED, AND REVERSE OSMOSIS) 4. NATURAL GAS 5. USED COOKING OIL

F. DOMESTIC WATER PIPING SHALL BE LABELED ON EXTERIOR OF INSULATION IN ACCORDANCE WITH ANSI A13.

G. PIPING, VALVES, DRAINS, CONTROL PANELS AND SIMILAR EQUIPMENT SHALL BE IDENTIFIED AS TO FUNCTION AND SYSTEM NUMBER AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS LISTED BELOW:

IDENTIFICATION ITEM : TYPE PIPING : STENCIL OR PIPE LABEL VALVES : TAG PIPING SPECIALTY : TAG WATER HEATER AND OTHER EQUIPMENT : STENCIL

H. IDENTIFY PIPE LINES WITH STENCIL OR PIPE LABEL WITH COLOR CODED BANDS AT THE FOLLOWING LOCATIONS:

1. AT EQUIPMENT CONNECTION AT EACH VALVE. 2. AT BOTH SIDES OF WALLS THROUGH WHICH PIPE PASSES. 3. AT EVERY 20 FT. INTERVAL ON CONTINUOUS PIPE LINES. 4. AT EACH BRANCH CONNECTION.

5. SHOW FLOW DIRECTION ARROWS AT EACH IDENTIFICATION POINT.

INSULATION A. PIPE INSULATION AND APPURTENANCES AND COVERINGS ON PIPES USED IN CHASES, SHAFTS OR OTHER CONCEALED SPACES IN TYPES 1 AND 2 CONSTRUCTION SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING TWENTY-FIVE (25) AND IN TYPE 3 AND 4 CONSTRUCTION NOT EXCEEDING SEVENTY-FIVE (75) AND A SMOKE DEVELOPED RATING NOT EXCEEDING FIFTY (50).

B. INSULATION SHALL BE RIDGE ONE-PIECE FIBERGLASS PIPE INSULATION WITH REQUIREMENTS COMPLYING WITH ASTM C 547. SELF-SEALING ADHESIVE LAP LONGITUDINAL JOINTS AND BUTT STRIPS FOR TRANSVERSE JOINTS. JACKETING SHALL CONFORM TO ASTM C 1136, TYPE I, MAXIMUM VAPOR TRANSMISSION RATING OF 0.02 PERM WHEN TESTED ACCORDING TO ASTM E 96, PROCEDURE A. (K VALVE) 0.25 BTU/IN./HR. * FT2 * F AT 75F MEAN TEMPERATURE WITH A MINIMUM R-VALUE OF R4.

C. PROVIDE INSULATION THICKNESS AS INDICATED: DOMESTIC COLD WATER PIPING 1" AND SMALLER: 1/2" THICK DOMESTIC COLD WATER PIPING 1-1/4" - 1-1/2": 3/4" THICK DOMESTIC HOT WATER PIPING 3/4" AND SMALLER: 1" THICK DOMESTIC HOT WATER PIPING 1" - 1-1/2": 1-1/2" THICK PLUMBING VENT PIPING WITHIN 6 FEET OF ROOF OUTLET: 1" THICK CONDENSATE PIPING: 1/2" THICK USED COOKING OIL 1" THICK STORM DRAIN PIPING: 1" THICK OVERFLOW STORM DRAIN PIPING: 1" THICK

D. GLUE IN PLACE WITH SCHULLER U-GLUE.

E. THE FITTINGS SHALL BE INSULATED WITH SCHULLER ZESTON INSULATION AND HAVE FACTORY PRE-MOLDED PVC COVERS. BUTT JOINTS TOGETHER AND WRAP WITH 3" WIDE STRIP TAPE, SEAL IN PLACE WITH SCHULLER U-GLUE.

F. INSULATION SHALL NOT BE APPLIED UNTIL THE GENERAL CONSTRUCTION HAS PROGRESSED SUFFICIENTLY TO INSURE AGAINST PHYSICAL OR MOISTURE DAMAGE TO THE INSULATION. ALL INSULATION DAMAGED THROUGH FAILURE TO OBSERVE THIS DIRECTIVE SHALL BE REPLACED AT PLUMBING CONTRACTOR'S EXPENSE.

G. INSTALL ALL INSULATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

H. INSULATION SHALL NOT BE APPLIED OVER FLANGES, JOINTS AND SEAMS IN PIPING.

I. INSULATION SHALL BE SCHULLER, EQUAL PRODUCT BY ARMSTRONG, CERTAINTED, OWENS-CORNING OR KNAUF MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.

J. PROVIDE INSULATION FOR WATER AND WASTE PIPING BELOW HANDICAP LAVATORIES/SINKS AS FOLLOWS:

PROVIDE TURBO "LANGUARD 2" ADA TRAP AND SUPPLY PROTECTION OR EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING BASIC MATERIALS AND METHODS A. PIPING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

B. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT INDICATED.

C. FIXTURES/EQUIPMENT FURNISHED BY OTHERS: PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS REQUIRED SUCH AS WATER, GAS, SUPPLIES, WASTE OUTLET AND TRAPS AT ALL PLUMBING FIXTURES OR EQUIPMENT FURNISHED BY OWNER, GENERAL CONTRACTOR, AND EQUIPMENT SUPPLIER. INCLUDED ARE STOP VALVES, ESCUTCHEONS, AND CHROME PLATED BRASS TUBING WITH COMPRESSION FITTINGS. THIS CONTRACTOR IS TO BECOME INFORMED OF THE EXACT DIMENSIONS OF FINISHED WORK WHERE PIPES ARE TO BE PLACED AND SHALL ARRANGE THE WORK ACCORDINGLY, ASSUMING ALL RESPONSIBILITY FOR PROPER LOCATION. MAINS SHALL BE ERECTED WITH SPECIAL CARE TO PROVIDE SUPPORT AND PROPER ALLOWANCES FOR EXPANSION.

D. ALL PIPE LINES MUST BE PROVIDED WITH A SUFFICIENT NUMBER OF FITTINGS OR UNIONS TO MAKE POSSIBLE DISASSEMBLY WITHOUT BREAKAGE OF FITTINGS.

E. ALL EXPOSED PIPING SHALL BE NEAT AND CAREFULLY ALIGNED WITH THE STRUCTURAL ELEMENTS OF THE BUILDING.

F. DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE USED FOR LAYOUT WORK.

G. ALL LOW POINTS IN WATER PIPING SHALL HAVE DRAIN VALVES WITH STANDARD HOSE ATTACHMENTS. HOT AND COLD WATER PIPING SHALL PITCH TOWARD NEAREST DRAIN VALVE.

H. ALL PIPES TO BE INSTALLED SHALL BE LOCATED AT SUFFICIENT DISTANCE FROM WALLS, OTHER PIPES, CONDUIT, DUCTWORK AND OTHER OBSTACLES TO AVOID INTERFERENCE AND TO PERMIT THE APPLICATION OF FULL THICKNESS OF INSULATION SPECIFIED.

I. MECHANICAL JOINT TYPE PIPING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THERMOMETERS BY TRECICE, ASHCROFT, MARSHALLTOWN, AND WEISS ARE ACCEPTABLE.

J. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES AND VALVES ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS ACCESS PANELS ARE NOT REQUIRED.

K. SHUTOFF VALVES WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, OR OTHER EQUIPMENT ITEMS TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. PIPE LINE VALVES SHALL BE EQUAL TO CRANE SERIES #802, QUARTER TURN BALL VALVE CONSTRUCTION - TWO PIECE, BRONZE BODY, FULL PORTED, CHROME PLATED BRASS BALL, REPLACEABLE "TEFLON OR TFE" SEATS AND SEALS. RATING 150 PSI WSP, 600 PSI WOG. CONNECTIONS - SOLDER OR THREADED ENDS TO MATCH PIPING. STANDARDS COMPLIANCE - BRONZE OR BRASS VALVES: MSS-SP-110. WHEN SHUTOFF VALVE ARE PLACE IN THE CEILING THE VALVES WILL BE LOCATED AT A MAXIMUM OF 12" ABOVE THE CEILING AND NOTHING SHALL BE PLACE BETWEEN THE CEILING ACCESS AND THE VALVES.

PLUMBING SYSTEMS A. SANITARY WASTE AND VENT PIPING SHALL BE PROVIDED AS FOLLOWS:

1. PROVIDE ALL SANITARY DRAINS AND PIPING WITHIN THE PROJECT SPACE WITH CONNECTION TO EXISTING DRAINAGE SYSTEMS ON-SITE.

2. SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST-IRON PIPE AND FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE ABS/PVC PLASTIC PIPE WITH SOLVENT WELD FITTINGS, OR SERVICE-WEIGHT HUB AND SPOIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM.

3. ALL SANITARY WASTE PIPING SHALL BE UNIFORMLY PITCHED AT 1/4" PER FOOT FOR PIPE SIZES 3" AND SMALLER, 1/8" PER FOOT FOR PIPE SIZES 4"-6", AND 1/16" PER FOOT FOR PIPE SIZES 8" OR LARGER UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON DRAWINGS.

CONDITIONS, OR INDICATED ON DRAWINGS. GREASE LADEN WASTE LINES AND SAND/OIL WASTE LINES SHALL BE INSTALLED AT NO LESS THAN AT 1/4" PER FOOT FALL.

4. SANITARY VENT PIPING: PROVIDE A COMPLETE SYSTEM OF ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR STANDARD WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

5. CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL STORM, WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSURE FROM VIEW. PROVIDE FLOOR MAKER IF BELOW RAISED FLOOR.

B. HOT AND COLD WATER PIPING SHALL BE PROVIDED AS FOLLOWS: 1. LAYOUT WATER PIPING SO THAT ENTIRE SYSTEM CAN BE DRAINED.

2. TYPE "L" HARD COPPER TUBE WITH SOLDER FITTINGS: COPPER TUBING SHALL HAVE SWEAT JOINTS AND BE CLEAN OF SCALE AND FOREIGN MATTER BEFORE INSTALLATION. ALL ENDS OF TUBING TO BE SWEATED SHALL BE REAMED, CLEANED AND BURNISHED TO REMOVE DIRT AND OXIDE. HARD 95-5 LEAD-FREE SOLDER SHALL BE USED AND APPLIED TO THE JOINTS ACCORDING TO STANDARD PRACTICE AND/OR MANUFACTURER'S RECOMMENDATIONS. COMPRESSION STOPS AND BRAIDED SUPPLIES SHALL BE USED AT CONNECTION TO EQUIPMENT.

3. PEX-A TUBING WITH ASTM F1960 FITTINGS: PEX TUBING SHALL BE SUPPORTED WITH ADDITIONAL PEX-A PIPE CHANNEL PER MANUFACTURER'S RECOMMENDATIONS. PEX PIPING SHALL BE TERMINATED AT FIXTURES WITH PRE-MANUFACTURED COPPER STUB-OUTS, COMPRESSION STOPS, AND BRAIDED SUPPLIES SHALL BE USED AT CONNECTION TO EQUIPMENT. PROVIDE RED TUBING FOR HOT WATER, BLUE TUBING FOR COLD WATER, AND WHITE/TRANSPARENT TUBING FOR ALL OTHER DOMESTIC WATER.

4. EACH HOT AND COLD WATER BRANCH SHALL BE PROVIDED WITH A BALL VALVE SHUT-OFF.

C. CONDENSATE PIPING SHALL BE PROVIDED AS FOLLOWS: 1. TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV COPPER TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES.

2. HEAT TRACE ALL CONDENSATE DRAIN LINES INSIDE COOLERS AND FREEZERS AT 5 WATTS/LINEAR FOOT (MINIMUM).

D. STORM AND OVERFLOW PIPING SHALL BE PROVIDED AS FOLLOWS: 1. PROVIDE ALL STORM DRAINS AND PIPING WITHIN THE PROJECT SPACE WITH CONNECTION TO EXISTING STORM DRAINAGE SYSTEMS ON-SITE.

2. STORM DRAINAGE PIPING ABOVE FLOOR SHALL BE ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST-IRON PIPE AND FITTINGS AND CONNECTIONS. STORM DRAINAGE PIPING BELOW GRADE SHALL BE ABS/PVC PLASTIC PIPE WITH SOLVENT WELD FITTINGS, OR SERVICE-WEIGHT HUB AND SPOIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM.

3. ALL STORM PIPING SHALL BE UNIFORMLY PITCHED AT 1/4" PER FOOT FOR PIPE SIZES 3" AND SMALLER, 1/8" PER FOOT FOR PIPE SIZES 4"-6", AND 1/16" PER FOOT FOR PIPE SIZES 8" OR LARGER UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON DRAWINGS.

GAS PIPING A. PROVIDE A COMPLETE GAS PIPING SYSTEM TO SERVE GAS FIRED HVAC EQUIPMENT, DOMESTIC WATER HEATERS AND EQUIPMENT FURNISHED BY OTHERS, AS NOTED ON DRAWINGS.

C. NATURAL GAS PIPING SHALL BE AS FOLLOWS: 1. ASTM A-53 SCHEDULE 40 STEEL PIPE PAINTED WITH YELLOW ANTI-CORROSION PAINT. SCREWED OR WELDED IN ACCORDANCE WITH CODE REQUIREMENT (FITTINGS FOR LINES LARGER THAN 2" SHALL BE WELDED STEEL. FITTINGS FOR LINES 2" AND SMALLER, EXCEPT WHEN LOCATED IN AIR PLENUMS, SHALL BE SCREWED. STANDARD WEIGHT BLACK MALLEABLE).

D. PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND GOVERNING LOCAL CODES AND AT EACH GAS APPLIANCE CONNECTION.

E. PROVIDE ALL TESTS, METERS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

F. PAINT ALL GAS PIPING EXPOSED TO WEATHER WITH ONE COAT OF PRIMER, AND TWO COATS OF RUST-PROOF PAINT. COLOR OF PIPE ON ROOF SHALL BE YELLOW. COORDINATE COLOR OF PIPE ON EXTERIOR OF BUILDING WITH GC TO MATCH BUILDING COLORS.

G. GAS COCKS 1-1/2" AND SMALLER SHALL BE ALL BRONZE, SCREWED, FLAT HEAD, BRASS PLUG AND WREATH 200 LB. NOG. PROVIDE LINE SIZE 6" LONG DIRT LEG DOWN STREAM OF GAS COCK AT ALL EQUIPMENT CONNECTIONS.

H. NO VALVES ARE TO BE LOCATED IN AIR PLENUMS.

I. PROVIDE GAS PIPE SUPPORTS IN ACCORDANCE WITH CODE REQUIREMENTS.

PLUMBING PIPING SPECIALTIES - USED COOKING OIL A. ASTM A-53 SCHEDULE 40 STEEL PIPE THREADED AND SCREWED OR WELDED WITH STANDARD WEIGHT BLACK MALLEABLE FITTINGS.

B. PROVIDE UNION AT ALL EQUIPMENT CONNECTIONS.

C. PROVIDE PIPE SUPPORTS AND STANDOFF HANGERS IN ACCORDANCE WITH CODE REQUIREMENTS.

D. EXTERIOR UCO PIPING WITH INSULATION TO EXTERIOR TANK REQUIRES A STAINLESS STEEL INSULATION JACKET WITH ALL JOINTS AND SEAMS SEALED WATER TIGHT USING WATERPROOF UV RESISTANT CLEAR SEALANT (3M CLEAR HYBRID 730 UV OR EQUAL RATED TO 194 DEGREE F) WITH THE ENDS COVERED TO PREVENT WATER INTRUSION AND SEAL. PROVIDE A PIPE ESCUTCHEON AT WALL.

WATER HEATER A. ELECTRIC WATER HEATERS:

1. PROVIDE WATER HEATER, SIZE, LOCATION AND CAPACITY AND MANUFACTURER AS INDICATED ON DRAWINGS.

2. TANK TYPE ELECTRIC WATER HEATER WITH GLASS-LINED TANK RATED AT 150 PSI WORKING PRESSURE, MAGNESIUM ANODE PROTECTION, BRONZE DRAIN VALVE, HIGH TEMPERATURE CUT-OFF SWITCH AND IMMERSION THERMOSTAT. TANK TO HAVE A MINIMUM R-VALUE OF 10.

3. FURNISH AND INSTALL A WATTS NO. 40L, 3/4" TEMPERATURE AND PRESSURE RELIEF VALVE AND EXTEND DISCHARGE PIPE, FULL SIZE, TO WITHIN 6" ABOVE MOP SINK OR FLOOR DRAIN.

4. PROVIDE POTABLE WATER EXPANSION TANK AS SPECIFIED. EQUAL PRODUCTS BY WATTS, AMTROL, OR BELL & GOSSETT MAY BE PROVIDED AT THE CONTRACTOR'S OPTION.

B. FUEL FIRED INSTANTANEOUS WATER HEATERS 1. PROVIDE HIGH EFFICIENCY GAS FIRED, INSTANTANEOUS WATER HEATERS. SIZE, LOCATION AND CAPACITY SHALL BE AS AS INDICATED ON THE DRAWINGS.

2. FACTORY-INSTALLED TEMPERATURE AND PRESSURE RELIEF VALVE. EXTEND DISCHARGE PIPE, FULL SIZE, TO WITHIN 6" ABOVE THE MOP SINK OR FLOOR DRAIN.

3. PROVIDE POTABLE WATER EXPANSION TANK AS SPECIFIED. EQUAL PRODUCTS BY WATTS, AMTROL, OR BELL & GOSSETT MAY BE PROVIDED AT THE CONTRACTOR'S OPTION.

PLUMBING FIXTURES AND EQUIPMENT A. WATER CLOSETS AND LAVATORIES SHALL BE VITREOUS CHINA AND SHALL ALL BE BY SAME MANUFACTURER.

B. INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS

C. ALL WALL HUNG LAVATORIES, FLUSH VALVES, ETC., SHALL BE PER DRAWINGS AND MOUNTED AT THE MANUFACTURER'S RECOMMENDED ROUGHING IN MEASUREMENTS, UNLESS NOTED OTHERWISE.

D. GREASE INTERCEPTOR - SHALL BE AS SPECIFIED ON DRAWINGS.

E. VALVES TO BE AS FOLLOWS: 125 LB. S.W.P. GATE, GLOBE AND CHECK VALVES:

2. GATE (2-1/2" AND SMALLER) - ALL BRONZE, SCREWED, TAPERED, SOLID WEDGE DISC, SCREWED BONNET, RISING STEM.

3. BALL (2-1/2" AND SMALLER) - ALL BRONZE, TEFLON STEM SEALS AND SEAT, 1/4 TURN SHUT-OFF, VINYL COVERED HANDLES.

4. GLOBE (2-1/2" AND SMALLER) - ALL BRONZE, SCREWED, TAPERED, SOLID WEDGE DISC, SCREWED BONNET, RISING STEM.

5. CHECK (2-1/2" AND SMALLER) - ALL BRONZE, SCREWED, HORIZONTAL SWING CHECK WITH BRONZE DISC.

F. VALVES SHALL BE MILWAUKEE, EQUAL PRODUCTS BY CRANE, HAMMON, POWELL, WALWORTH, NORTHERN INDIANA BRASS COMPANY OR STOCKHAM MAY BE FURNISHED AT CONTRACTOR'S OPTION.

G. UNIONS TO BE AS FOLLOWS: 1. UNIONS FOR COPPER PIPE TO BE 150LB., ALL BRONZE, SOLDER END TYPE BY CHASE. EQUAL PRODUCTS BY CRANE, MUELLER OR NORTHERN INDIANA BRASS COMPANY MAY BE FURNISHED AT CONTRACTOR'S OPTION.

2. DIELECTRIC UNIONS BETWEEN FERROUS AND COPPER SHALL BE INSULATED TO PREVENT METAL-TO-METAL CONTACT AND SHALL BE MANUFACTURED BY CAPITAL MANUFACTURING COMPANY OF COLUMBUS, OHIO. EQUAL PRODUCTS BY PATROL OR PECCO SALES COMPANY.

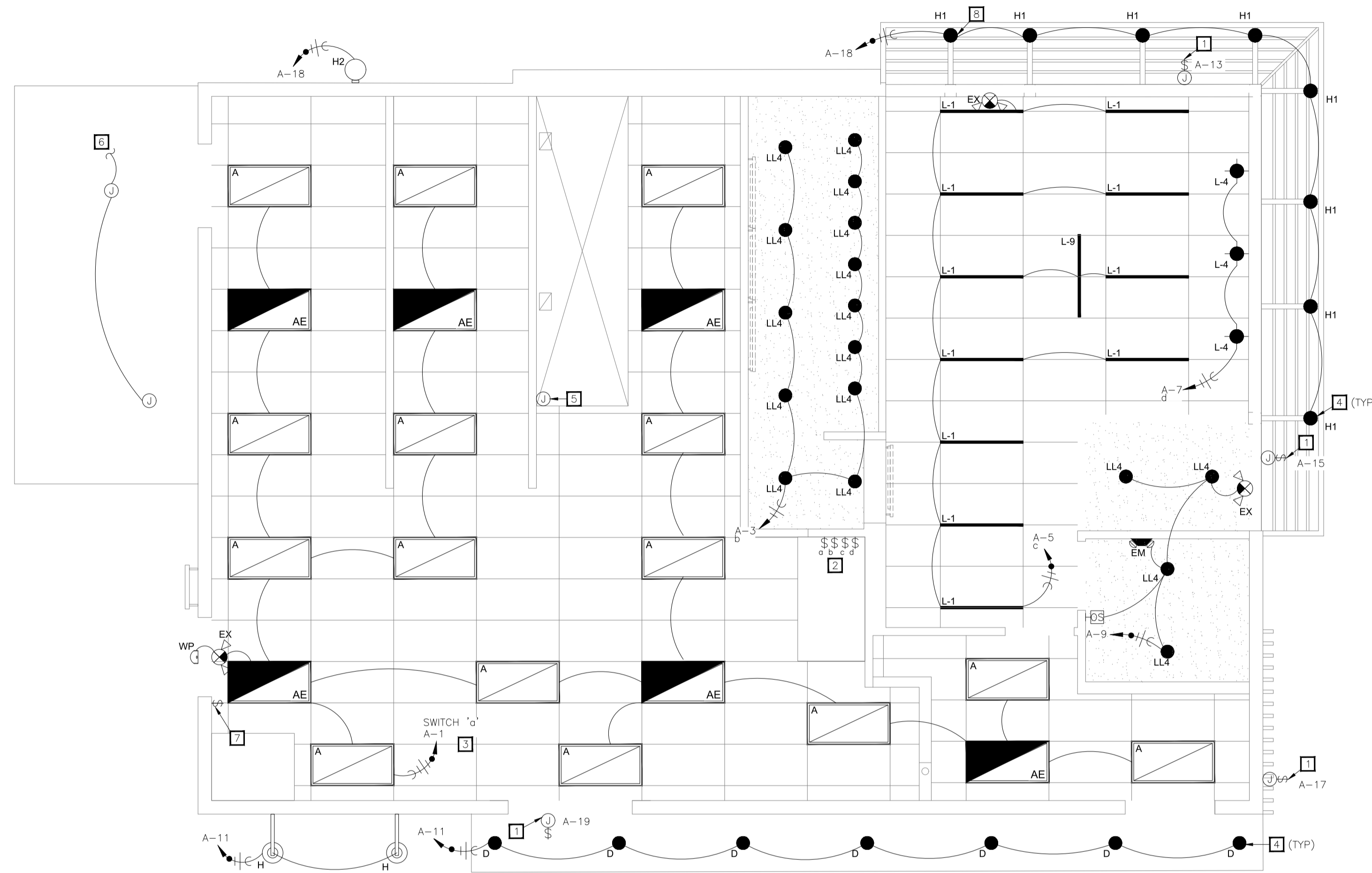
E. CLEANOUTS TO BE AS FOLLOWS: 1. FLOOR TYPE TO BE ADJUSTABLE CAST IRON WITH NICKEL BRONZE TOP. TOP TO BE FLUSH WITH FLOOR. SEE DRAWINGS FOR MODEL AND MANUFACTURER.

2. WALL TYPE TO BE CAST IRON TEE WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND THREADED PLUG. SEE DRAWINGS FOR MODEL AND MANUFACTURER.

F. FLOOR DRAINS TO BE AS FOLLOWS: 1. CAST IRON BODY SHALLOW SUMP DRAIN WITH DOUBLE DRAINAGE NEOPRENE GASKET INSIDE CONNECTOR, 6" DIAMETER ADJUSTABLE GRATE. FRAME AND GRATE TO HAVE POLISHED NICKEL-BRONZE FINISH. SEE DRAWINGS FOR MODEL AND MANUFACTURER. EQUAL PRODUCT MAY BE SUPPLIED AT THE CONTRACTOR'S OPTION.

ISSUE TABLE, REVISIONS, DRAWINGS REVISED AS PER DESIGN BULLETIN, PROJECT NORTH, ISSUED FOR CONSTRUCTION, COMPANY LOGO (THE DIMENSION GROUP), PROJECT (US 2112 PROTOTYPE 2112-21), LOCATION (1517 NC 24-87 CAMERON, NC), DRAWING TITLE (PLUMBING SPECIFICATIONS), DRAWN (NI), CHECKED (AH), SCALE, DATE (JUNE 2023), PROJECT NO. (C22-129), DRAWING NO. (PS.1.1)

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE



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. CONNECTED TO TIMECLOCK.
- 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.

- NOTES TO ARCHITECT:**
- FIXTURES IN THE KITCHEN HAVE REDUCED LUMEN OUTPUT/WATTAGE TO MEET COMCHECK.

No.	Date (mm/dd/yy)	Description


REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN


No.	Date	Description

ISSUED FOR CONSTRUCTION



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".


 10.30.2023

Company Logo


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Project


POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

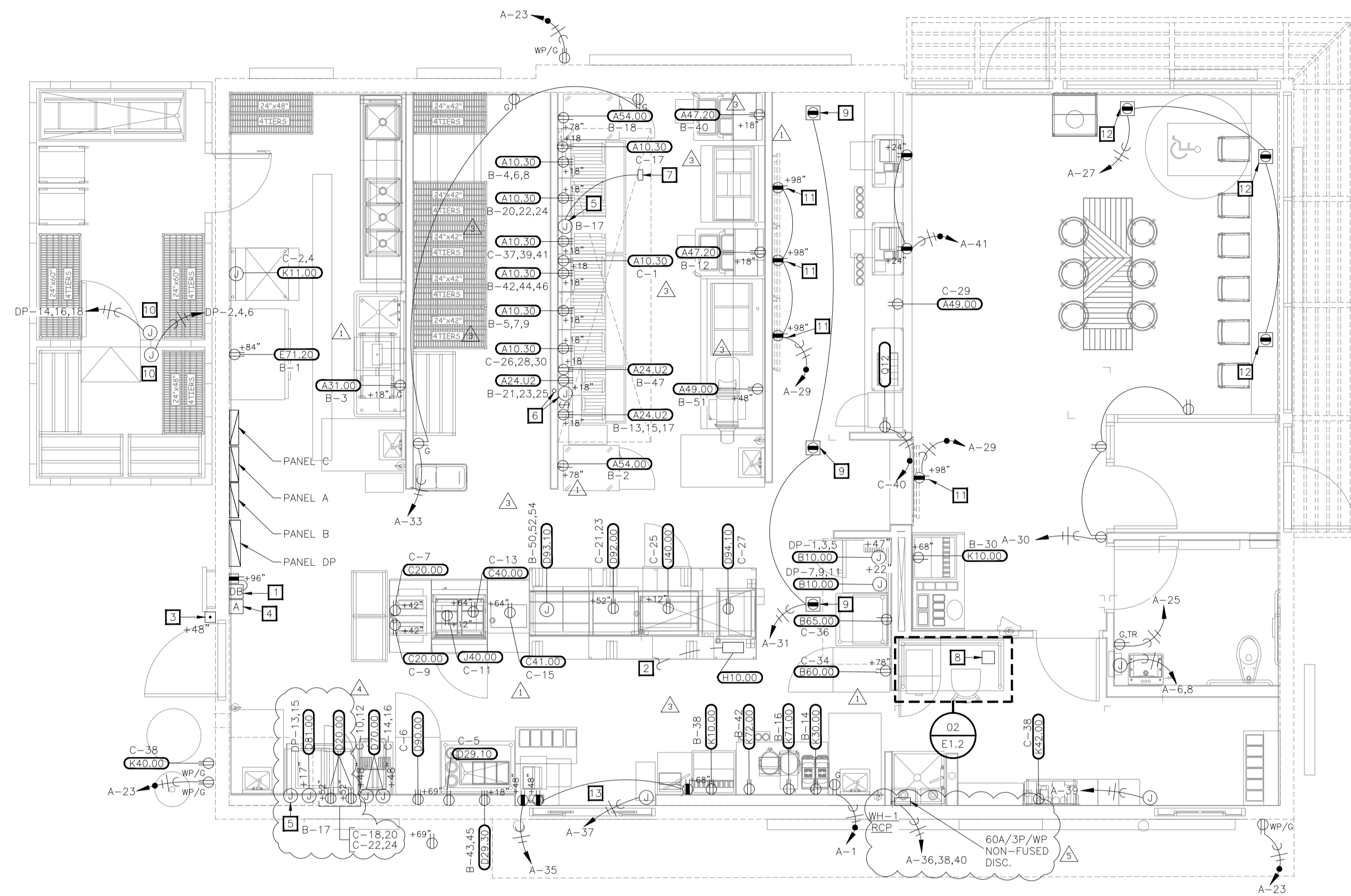
Drawing Title
ELECTRICAL LIGHTING PLAN

Drawn JP	Checked AH
Scale 1/4" = 1'-0"	Date JUNE 2023
Project No. C22-129	Drawing No. E1.1

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS & BALLAST	MOUNTING	VOLTS	WATTS	REMARKS
A	2X4 LED TROFFER	BOH LIGHTING: 24-FPL1-LED-4000L-DIM10-MVOLT-35-85	3500K LED	SURFACE	120	52	
AE	2X4 LED TROFFER W/ BATTERY BACKUP	BOH LIGHTING: 24-FPL1-LED-4000L-DIM10-MVOLT-35-85-0-EMG-LED-20W	3500K LED	SURFACE	120	52	
L-1	LED SUSPENDED LIGHT	COMMERCIAL LIGHTING: BAS-SPWDL48-OAK-SPCC-LED-18W-35-K-010V	3500K LED	SURFACE	120	18	
L-4	LED ACCENT LIGHT	NOLA MAKERS: BAS-PPC-10-RALS018-OB6ST-48LST	3500K LED	PENDANT	120	12	
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
L-9	LED SUSPENDED LIGHT	TBD	TBD	SURFACE	120	TBD	
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	
P1	LED POLE LIGHT	HUBBELL LIGHTING: RAR2-320L-165-5K7-4W-UNV-ASQ-DB-S	5000K LED	POLE MOUNT	UNV	165	

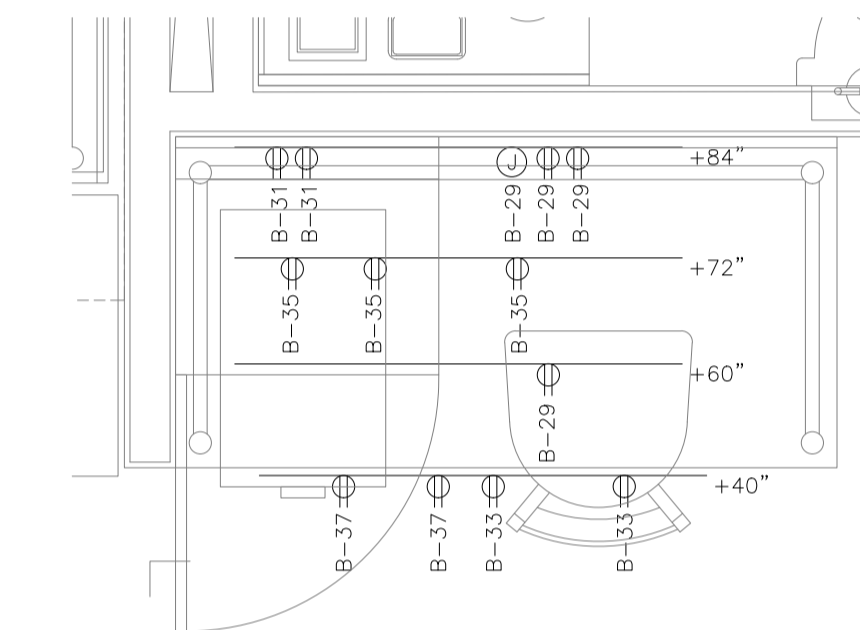
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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"

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
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2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	HEALTH COMMENTS TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION

PROJECT NORTH

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10.30.2023

Company Logo

ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongroup.com

Project

POPEYES

Store Type

US 2112 PROTOTYPE
2112-21

Location

1517 NC 24-87
CAMERON, NC

Drawing Title

ELECTRICAL POWER PLAN

Drawn	Checked
JP	AH
Scale	Date
AS SHOWN	JUNE 2023
Project No.	Drawing No.
C22-129	E1.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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.

ISSUE TABLE		
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DRAWINGS REVISED AS PER DESIGN BULLETIN		
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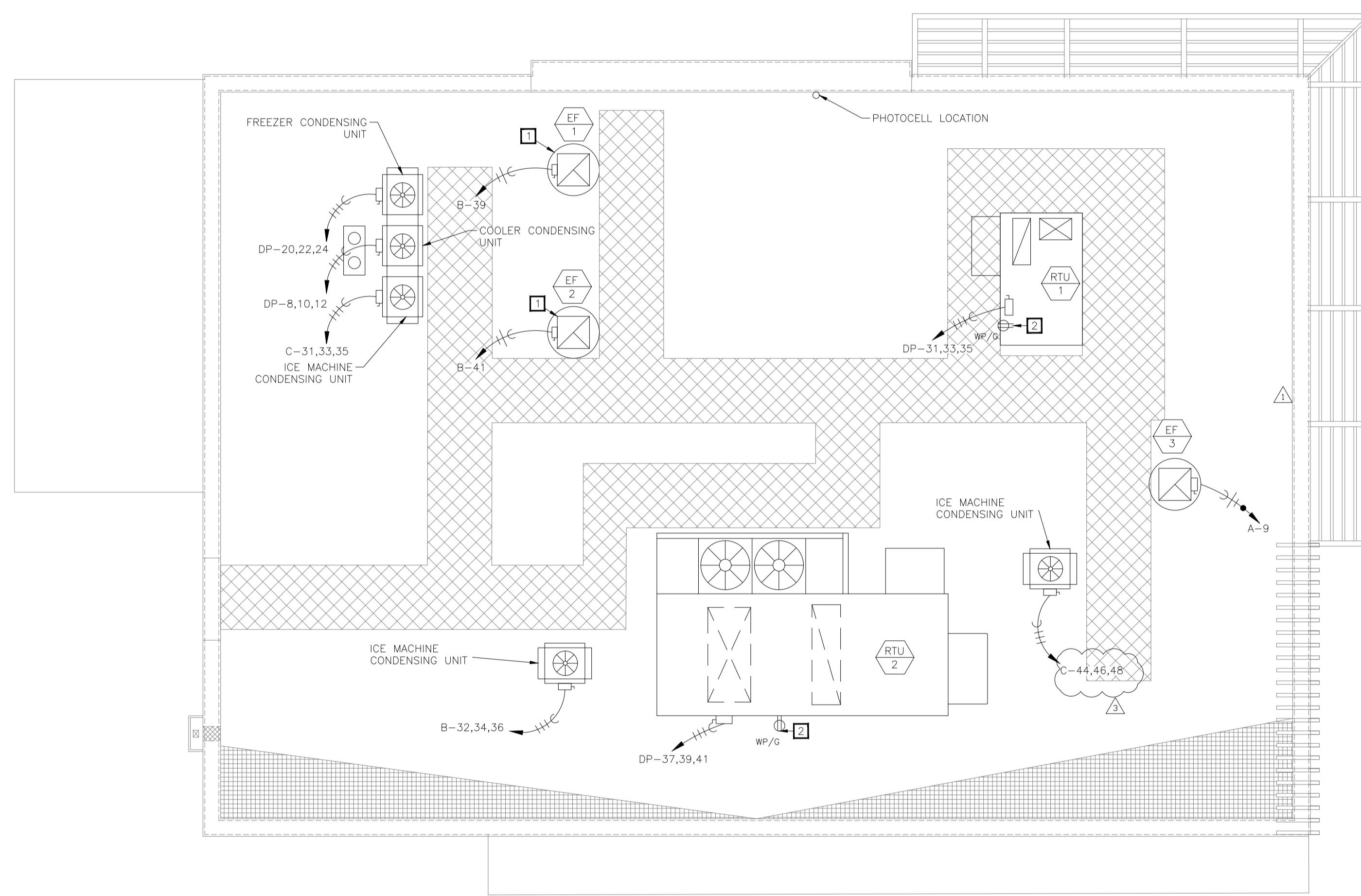
Project

Store Type
US 2112 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

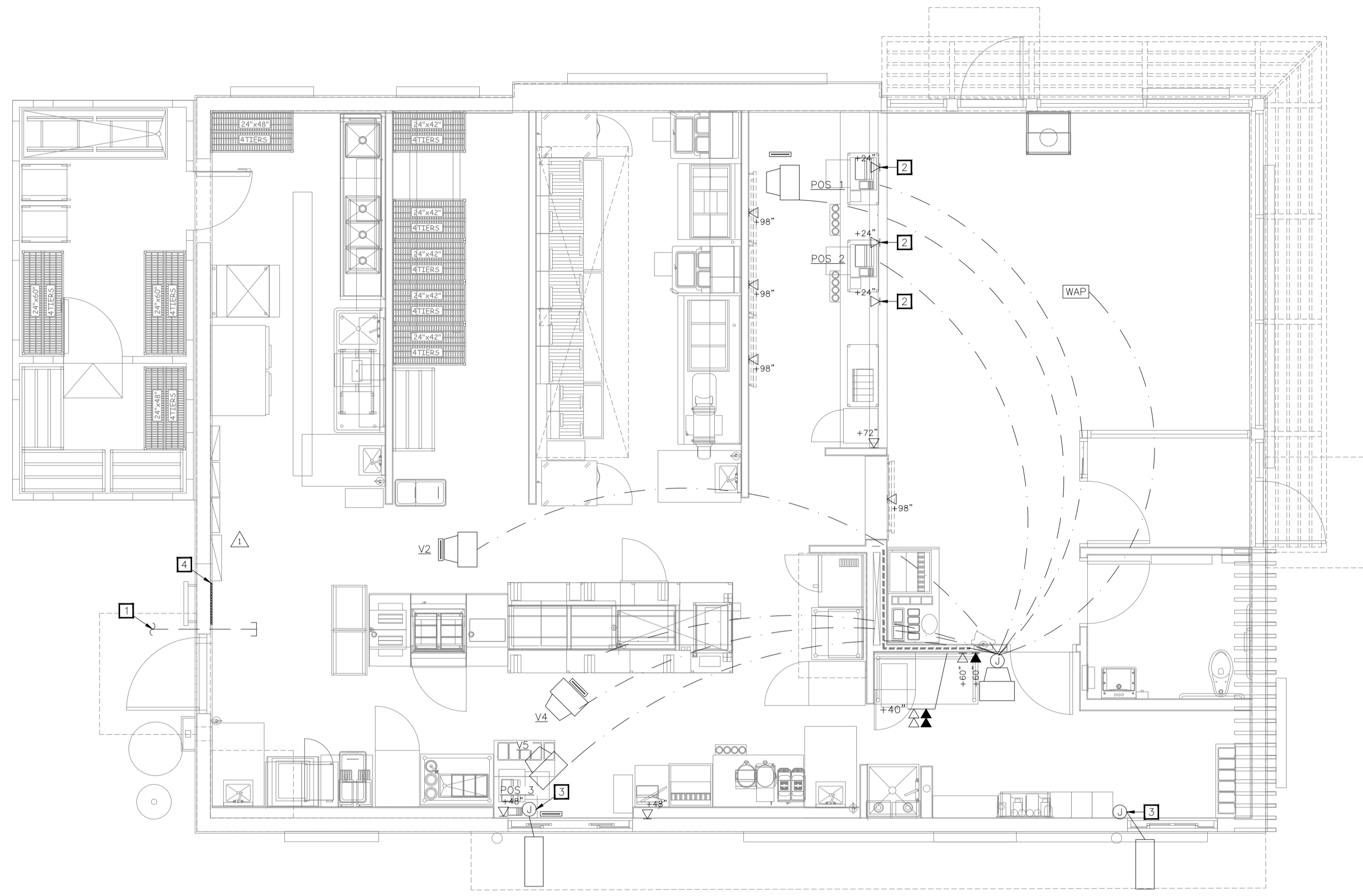
Drawing Title
ELECTRICAL ROOF PLAN

Drawn JP	Checked AH
Scale 1/4" = 1'-0"	Date JUNE 2023
Project No. C22-129	Drawing No. E1.3



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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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.

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DRAWINGS REVISED AS PER DESIGN BULLETIN


No.	Date	Description

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10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongroup.com

Project


POPEYES

Store Type

US 2112 PROTOTYPE
2112-21

Location

**1517 NC 24-87
CAMERON, NC**

Drawing Title

ELECTRICAL POS PLAN

Drawn	Checked
JP	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	E1.4

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.

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-B	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.

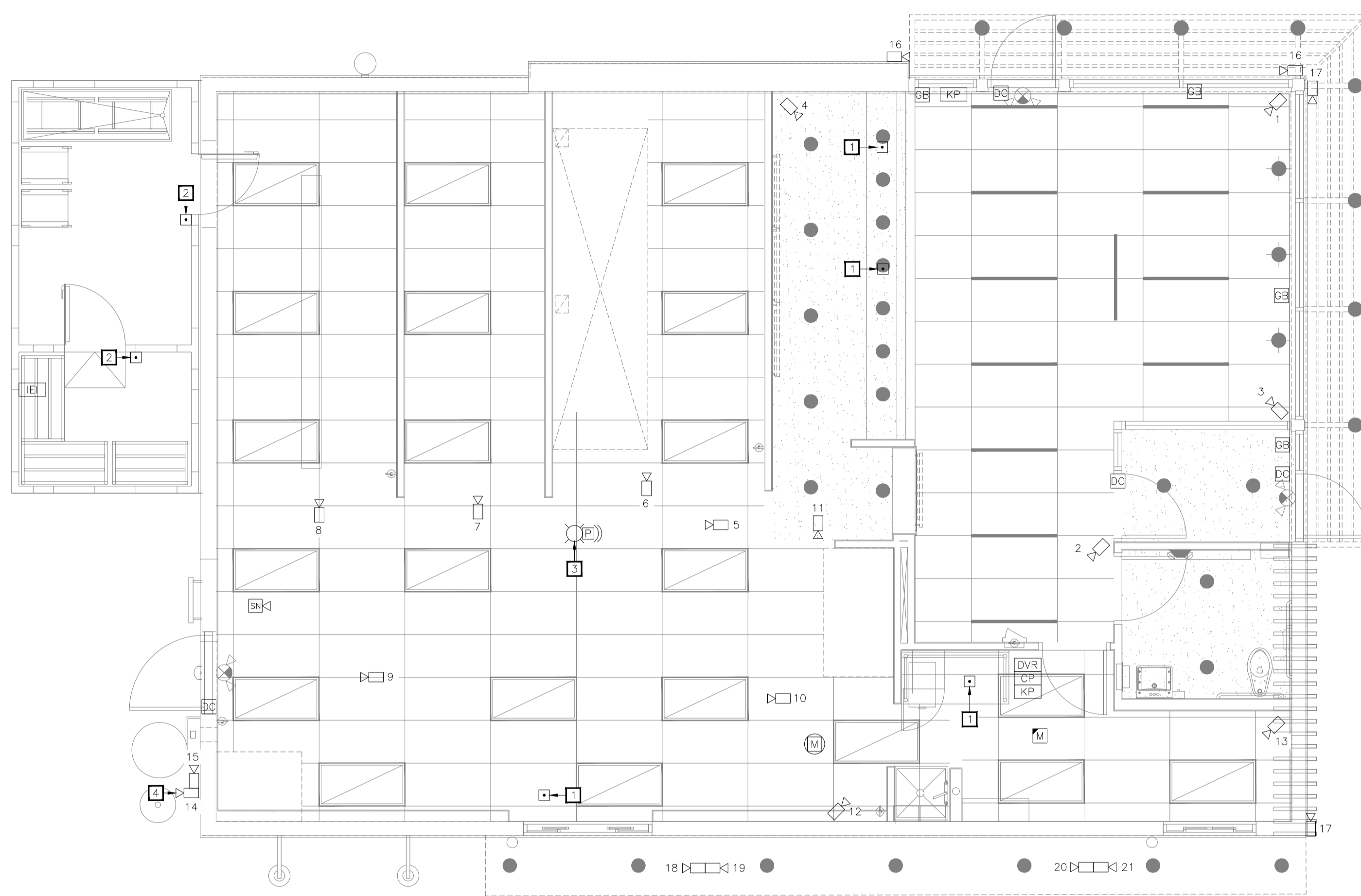
POS LEGEND

	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
	WIRELESS APPLICATION PROTOCOL

SYMBOLS LEGEND NOTES:
 MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.

NOTES TO ARCHITECT:
 * ENGINEER NEEDS LOCATIONS FOR ALL SPEAKERS

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



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 0IT100-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 TAMPERS
 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-TAMPERS SECURITY LOCK.

FOR LOCATIONS WITH 4 CAMERAS OR LESS: ADD DIVQUAD 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	DOOR CAMERA (PROVIDE EXTERIOR RATINGS WHERE REQUIRED)	DC	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)	M	1	STROBE LIGHT	SL	1
GLASS BREAK	GB	4	PIEZO	PJ	1
HOLD-UP PANIC BUTTON	HP	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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 10755 SANDHILL ROAD, DALLAS, TEXAS 75248
 TEL: 214-343-9400 www.thedimensiongroup.com

Project


POPEYES

Store Type
 US 2112 PROTOTYPE
 2112-21

Location
 1517 NC 24-87
 CAMERON, NC

Drawing Title
ELECTRICAL SECURITY PLAN

Drawn JP	Checked AH
Scale 1/4" = 1'-0"	Date JUNE 2023
Project No. C22-129	Drawing No. E1.5

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT MARK	ITEM DESCRIPTION	VOLTAGE-PHASE	MOCP	FEEDER			CONNECTION				HEIGHT	REMARKS	
				CONDUCTOR & GROUND	PIPE	MATERIAL	TYPE	AMPERAGE	POLES	FUSES			NEMA
A10.30	MULTIPLE LE FRYER SYSTEM, ELECTRIC	120V-3P	70A	1 SET(6)#6, #10G	1"	COPPER	RECEPTACLE	56A	3		5-15	18"	Amperage per vat. Needs power for controls
A24.102	MULTIPLE LE FRYER SYSTEM, ELECTRIC	208V-3P	60A	1 SET(4)#10, #8G	3/4"	COPPER	RECEPTACLE	47A	3		5-15	18"	Amperage per vat. Needs power for controls
A31.00	MARINATOR	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A47.10	BATTER CART	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A47.20	BATTER CART	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A47.30	BATTER CART	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A49.00	DRUMROLL	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A54.00	REACH-IN-FREEZER	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
AB54.00	REACH-IN-FREEZER	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
B10.00	CONVECTION OVEN	120/208-3P	40A	1 SET(4)#8, #10G	3/4"	COPPER	HARDWIRE	24A	2		22"-47"		
B20.00	COUNTERTOP MIXER	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
B60.00	REACH-IN-REFRIGERATOR	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
B65.00	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
C20.00	TOASTER	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	42"	
C40.00	PRODUCT HOLDING BIN	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	64"	
C41.00	PRODUCT HOLDING BIN	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	20A	1		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"	
D29.00	DIPPER WELL	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	40"-52"	
D20.10	UTENSIL HOLDER	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	40"-52"	
D29.30	HOT WELLS	208V-1P	20A	1 SET(3)#12, #12G	1/2"	COPPER	RECEPTACLE	5A	2				PROVIDE FOR (2) HOT WELLS
D29.80	HOT WELLS	208V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	HARDWIRE						
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	REHEATING WATER TANK, ELECTRIC	208V-1P	60A	1 SET(6)#6, #10G	3/4"	COPPER	HARDWIRE					17"	
D90.00	COOK & HOLD OVEN	120V-1P	20A	1 SET(2)#10, #10G	1/2"	COPPER	RECEPTACLE	19A	1		6-30	69"	
D92.00	SIDE HOLDING BINS	208V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	2		6-15	LOADCNTR	INCLUDED IN #H10
D92.00DM	HOT HOLDING CABINET	208V-1P	30A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	30A	2		6-30		
D93.10	HOLDING BIN	208V-1P	35A	1 SET(2)#8, #10G	1/2"	COPPER	HARDWIRE						
D94.00DM	HOT HOLDING CABINET	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
D94.00PC	PROTEIN HOLDING BIN	208V-1P	30A	1 SET(2)#10, #10G	1/2"	COPPER	RECEPTACLE	30A	1		6-30		
D94.10PC	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
E10.00	WALK-IN COOLER/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	1		5-15	84"	
E71.20	THAWING CABINET	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		SEE SPECS
F15.10	FAB ELECTRICAL	208V-1P	15A	1 SET(2)#12, #12G	1-1/4"	COPPER	HARDWIRE						SEE SPECS
GR10.00	CONTACT GRILL	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
H100.00	FAB ELECTRICAL	120/208V-3P	15A	1 SET(4)#4, #8G	1/2"	COPPER	HARDWIRE						LOAD CENTER
H90.00	HOLDING CABINET	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
J40.00	UNDERCOUNTER REFRIGERATOR	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	12"	
K10.00	ICE MAKER, CUBE-STYLE	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	68"	
K30.00	DRINK MACHINE	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 MACHINE	120V-1P	15A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
K42.00	BAG N BOX	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	20A	1		5-15		
K40.00	OIL MANAGER SYSTEM	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
K71.00	TEA BREWER	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		

NOTES: 1. VERIFY ALL ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN.

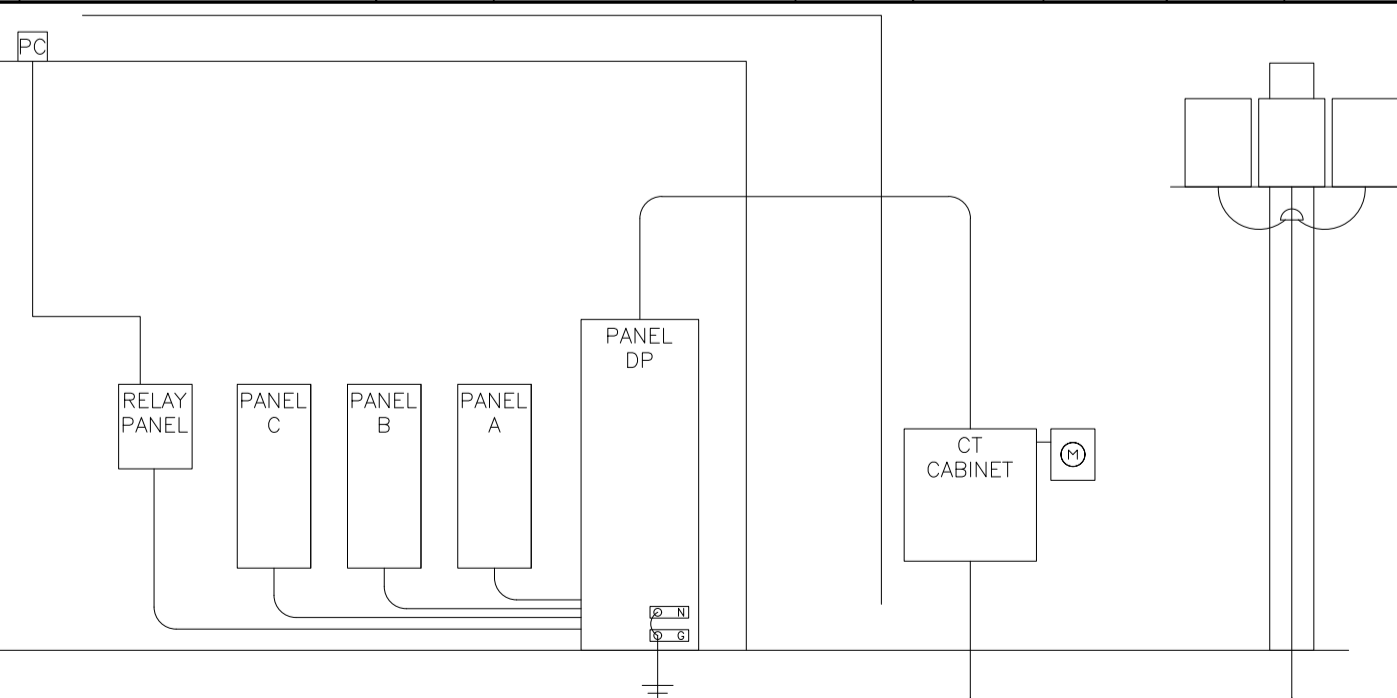
EQUIPMENT FEEDER SCHEDULE

EQUIPMENT MARK	VOLTAGE-PHASE	MOCP	FEEDER			CONNECTION				REMARKS			
			CONDUCTOR & GROUND	PIPE	MATERIAL	TYPE	AMPERAGE	POLES	FUSE		NEMA		
RTU-1	208V-3P	90A	1 SET(3)#3, #8G	1-1/4"	COPPER	INTEGRAL DISCONNECT		NF					
RTU-2	208V-3P	175A	1 SET(4)#2/0, #6G	2"	COPPER	INTEGRAL DISCONNECT		NF					
EF-1	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1	NF	3R			1
EF-2	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1	NF	3R			
EF-3	120V-1P	20A	1 SET(2)#12, #12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1	NF	3R			
ICE CONDENSER	208V-3P	20A	1 SET(3)#12, #12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R			
ICE CONDENSER	208V-3P	20A	1 SET(3)#12, #12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R			
ICE CONDENSER	208V-3P	20A	1 SET(2)#12, #12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R			
COOLER CONDENSER	208V-3P	20A	1 SET(3)#12, #12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R			
FREEZER CONDENSER	208V-3P	30A	1 SET(3)#12, #12G	3/4"	COPPER	PROVIDE DISCONNECT	30A	3		3R			

NOTES: 1. CIRCUIT THROUGH RELAY PANEL FOR CONTROL. SEE SCHEDULE FOR ADDITIONAL INFORMATION.

FEEDER SCHEDULE

EQUIPMENT MARK	VOLTAGE-PHASE	MOCP	FEEDER			FAULT CURRENT	VOLTAGE DROP
			CONDUCTOR & GROUND	PIPE	MATERIAL		
UTILITY	500KVA 120/208V-3P INFINITE					111935	
DP	120/208V-3P	1000A	4 SETS(4)#250	3"	COPPER	36392	
A	120/208V-3P	225A	4 #4/0 & 1#4G	2-1/2"	COPPER	30819 0.10%	
B	120/208V-3P	400A	2 SETS(4)#3/0 & 1#3G	2-1/2"	COPPER	33616 0.10%	
C	120/208V-3P	225A	4 #4/0 & 1#4G	2-1/2"	COPPER	29805 0.10%	

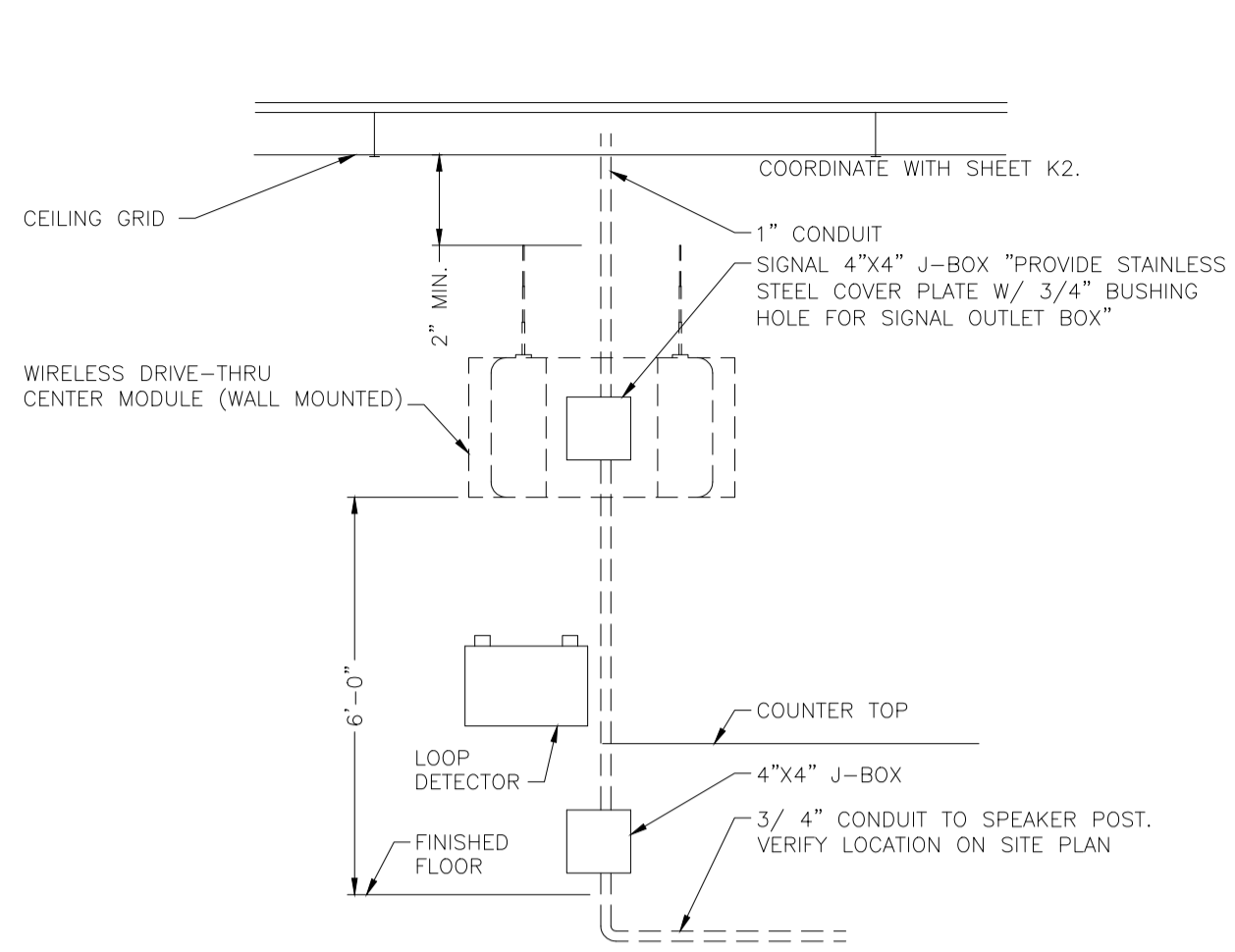


01 ELECTRICAL RISER DIAGRAM
NO SCALE

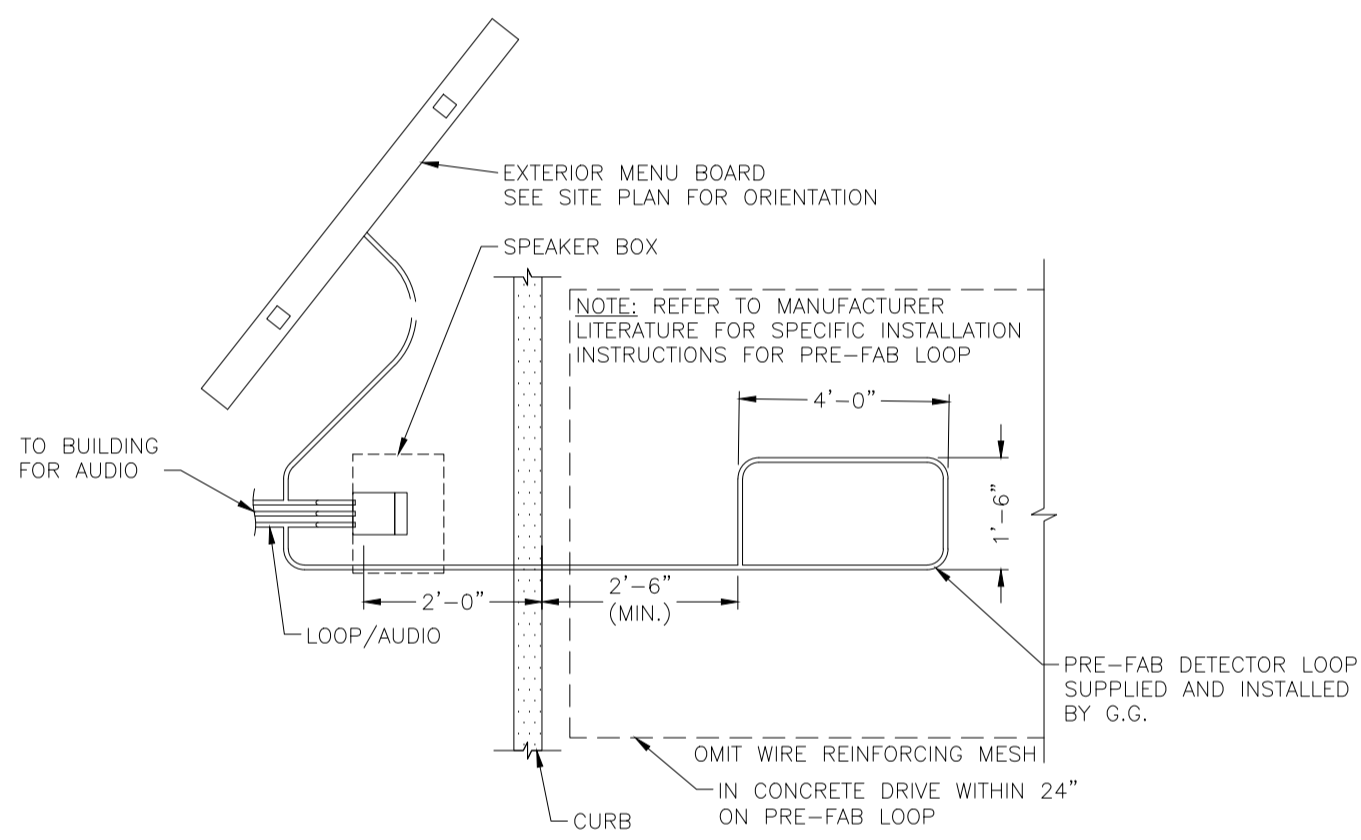
PANELBOARD:

PANEL TYPE: C
N.Q.
B.O.H.

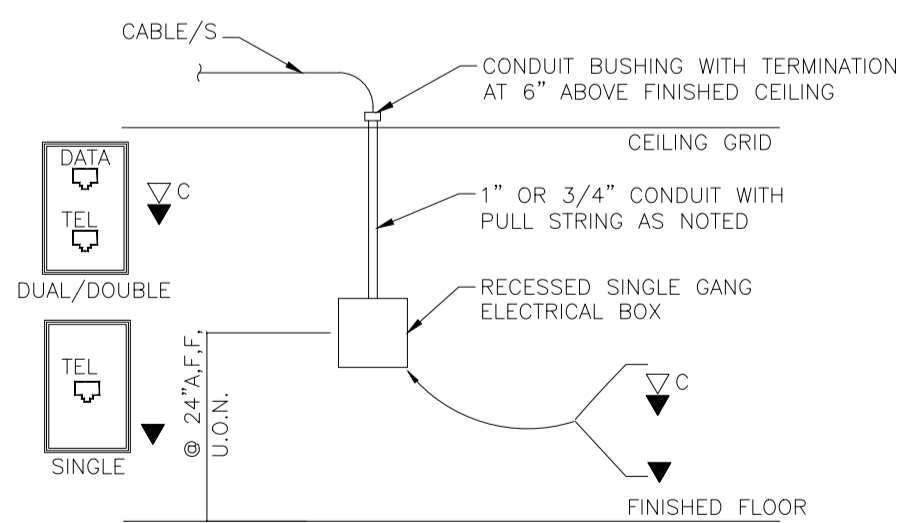
LOAD CTS	DESIGNATION	WIRE SIZE	LOAD VA	PL AMPS	PHASE A	PHASE B	PHASE C	AMPS PL	LOAD VA	WIRE SIZE	DESIGNATION	LOAD CTS	LOAD CTS
1	A10.30 - CONNECTION OVEN	3 #6, #10G, 3/4"	2880	3	40	3500	2060	20	3	2	3	4	0
2	A24.102 - CONNECTION OVEN	3 #6, #10G, 3/4"	1440	3	3040	2420	1600	20	3	2	3	4	0
3	A31.00 - MARINATOR	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
4	A47.10 - BATTER CART	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
5	A47.20 - BATTER CART	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
6	A47.30 - BATTER CART	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
7	A49.00 - DRUMROLL	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
8	A54.00 - REACH-IN-FREEZER	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
9	AB54.00 - REACH-IN-FREEZER	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
10	B10.00 - CONVECTION OVEN	3 #8, #10G, 3/4"	2400	2	2400	2400	2400	20	2	2	20	2	0
11	B20.00 - COUNTERTOP MIXER	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
12	B60.00 - REACH-IN-REFRIGERATOR	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
13	B65.00 - BISCUIT HOLDING UNIT	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
14	C20.00 - TOASTER	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
15	C40.00 - PRODUCT HOLDING BIN	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
16	C41.00 - PRODUCT HOLDING BIN	1 #12, #12G	2000	1	2000	2000	2000	20	1	1	20	1	0
17	D20.00 - MICROWAVE OVEN	1 #12, #12G	1500	1	1500	1500	1500	15	2	2	15	2	0
18	D29.00 - DIPPER WELL	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
19	D20.10 - UTENSIL HOLDER	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
20	D29.30 - HOT WELLS	2 #12, #12G	1500	2	1500	1500	1500	15	2	2	15	2	0
21	D29.80 - HOT WELLS	1 #12, #12G	1500	1	1500	1500	1500	15	1	1	15	1	0
22	D50.00 - ELECTRIC BOOSTER HEATER	3 #10, #10G	3000	3	3000	3000	3000	30	3	3			



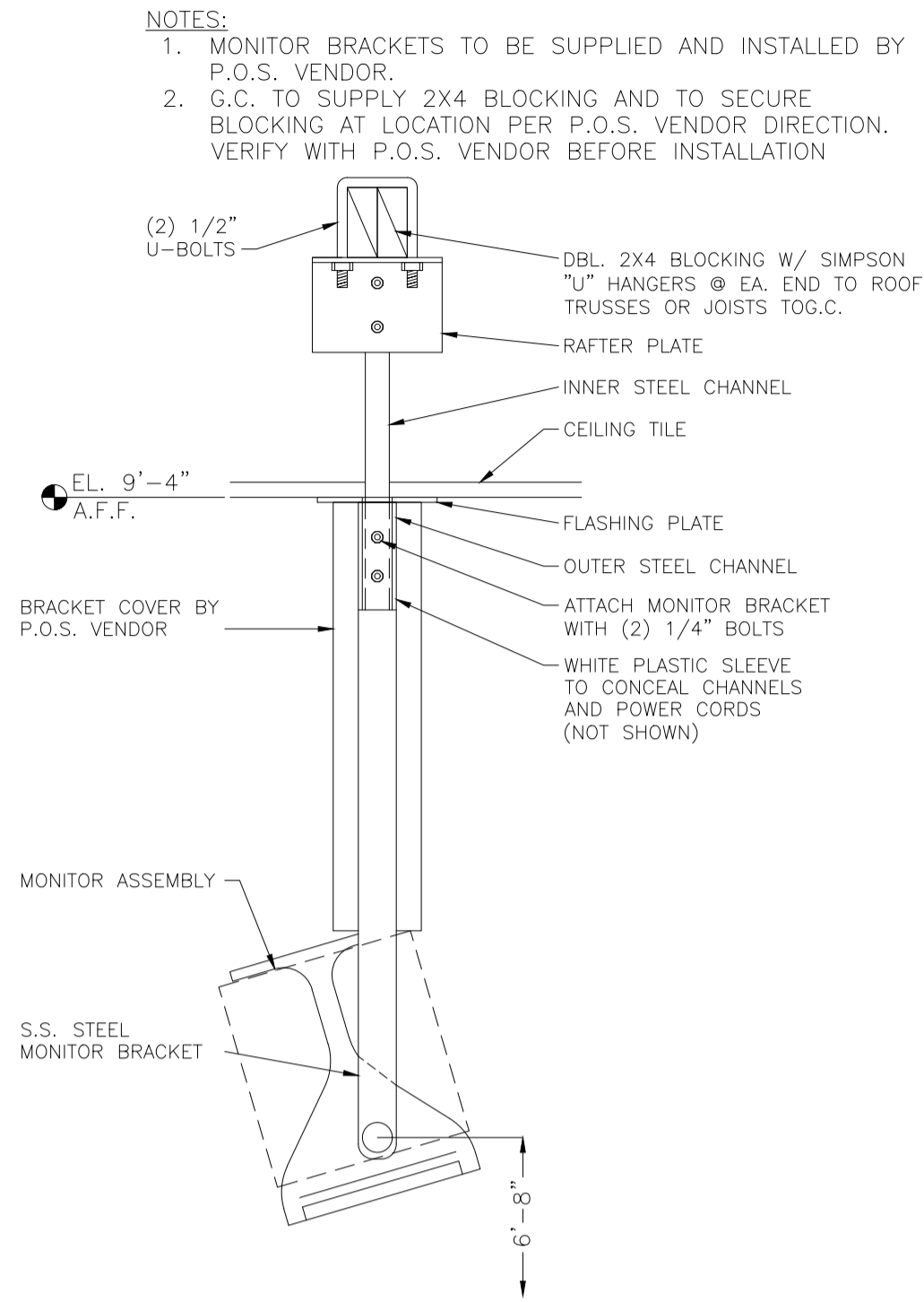
07 DRIVE-THRU AUDIO/TIMERS
NOT TO SCALE



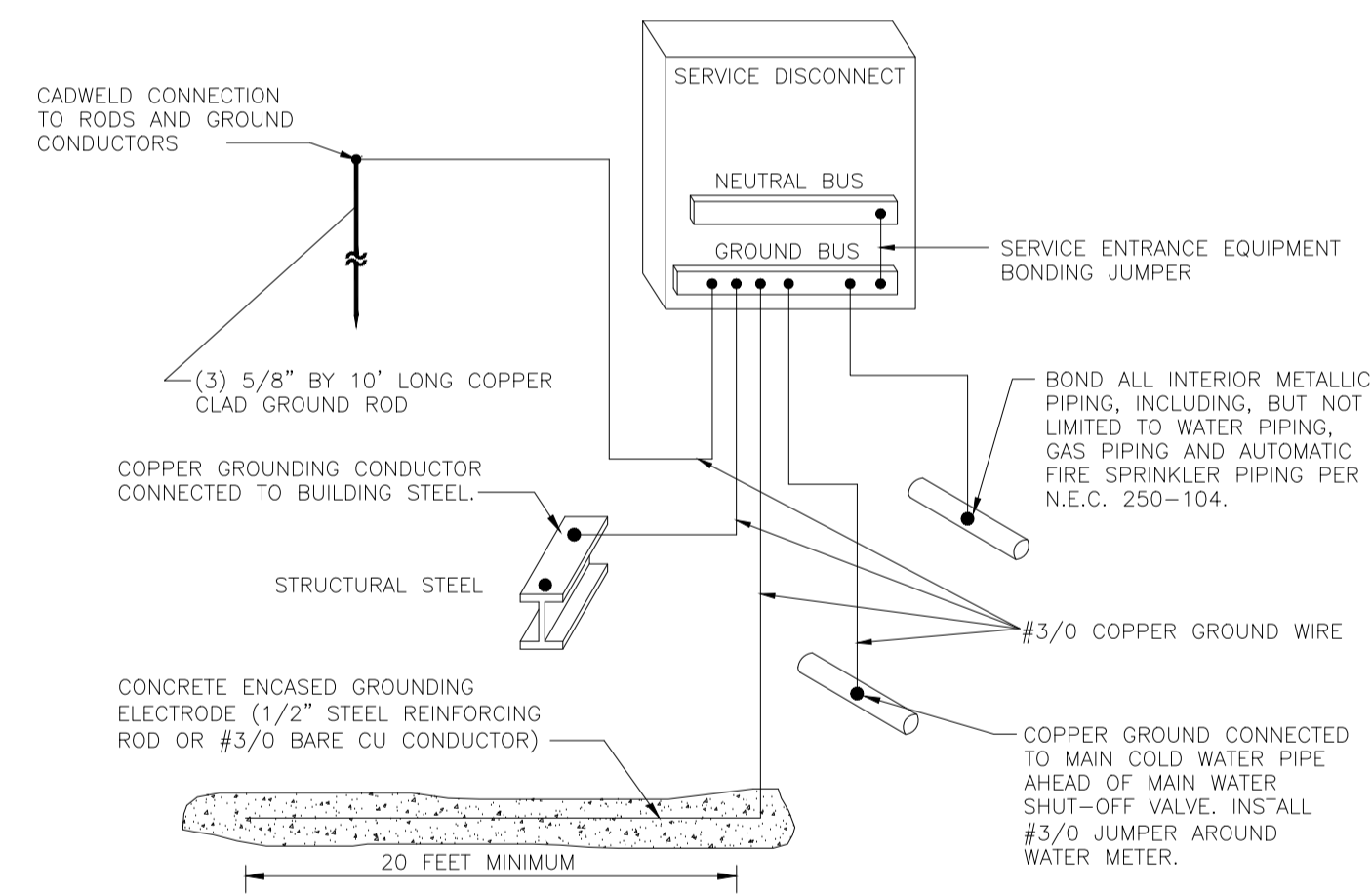
08 DRIVE-THRU LOOP DETECTOR
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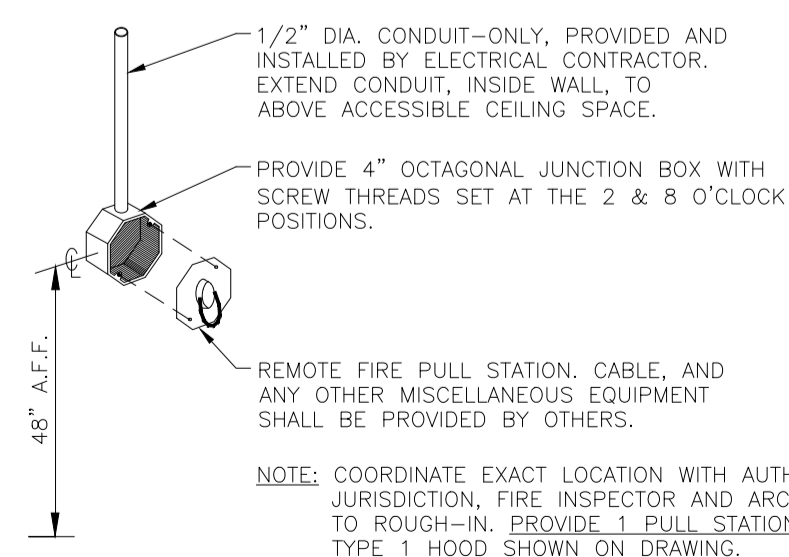
09 TYP COMM. STUB UP
NOT TO SCALE



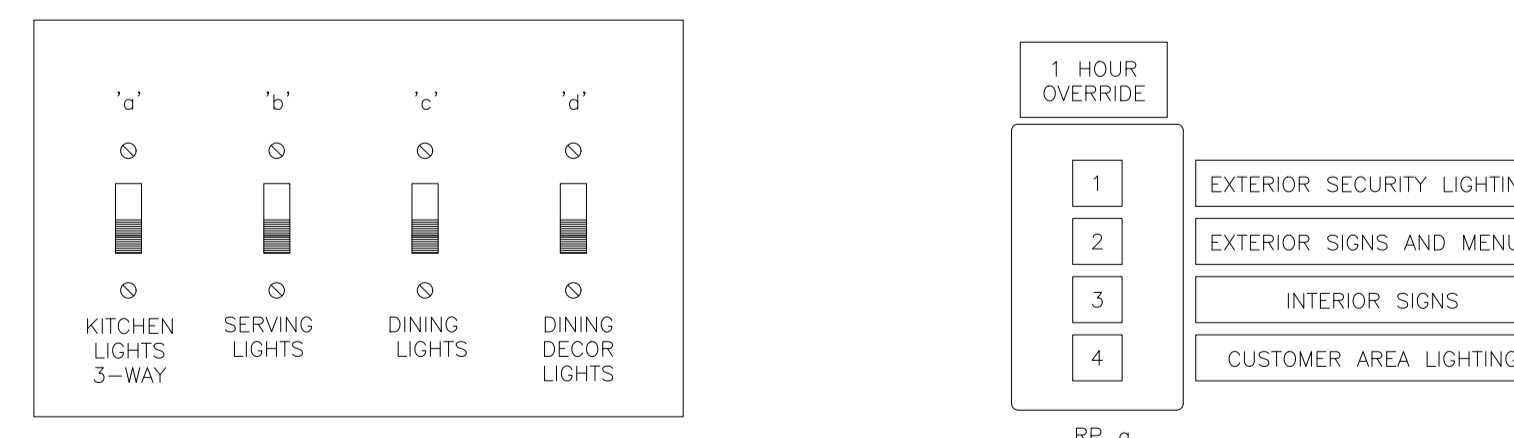
04 MONITOR BRACKET
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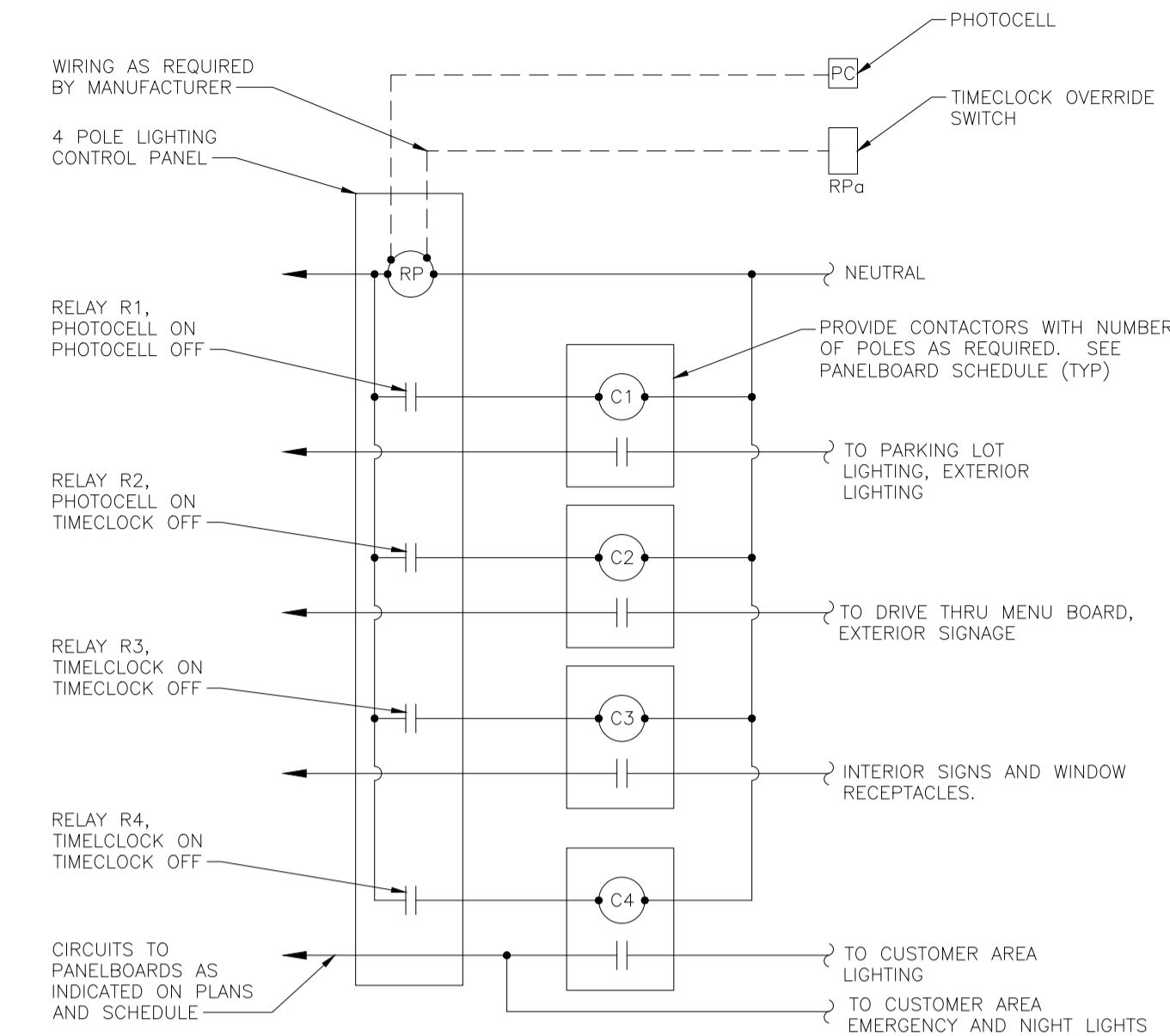
05 SERVICE ENTRANCE GROUNDING
NOT TO SCALE



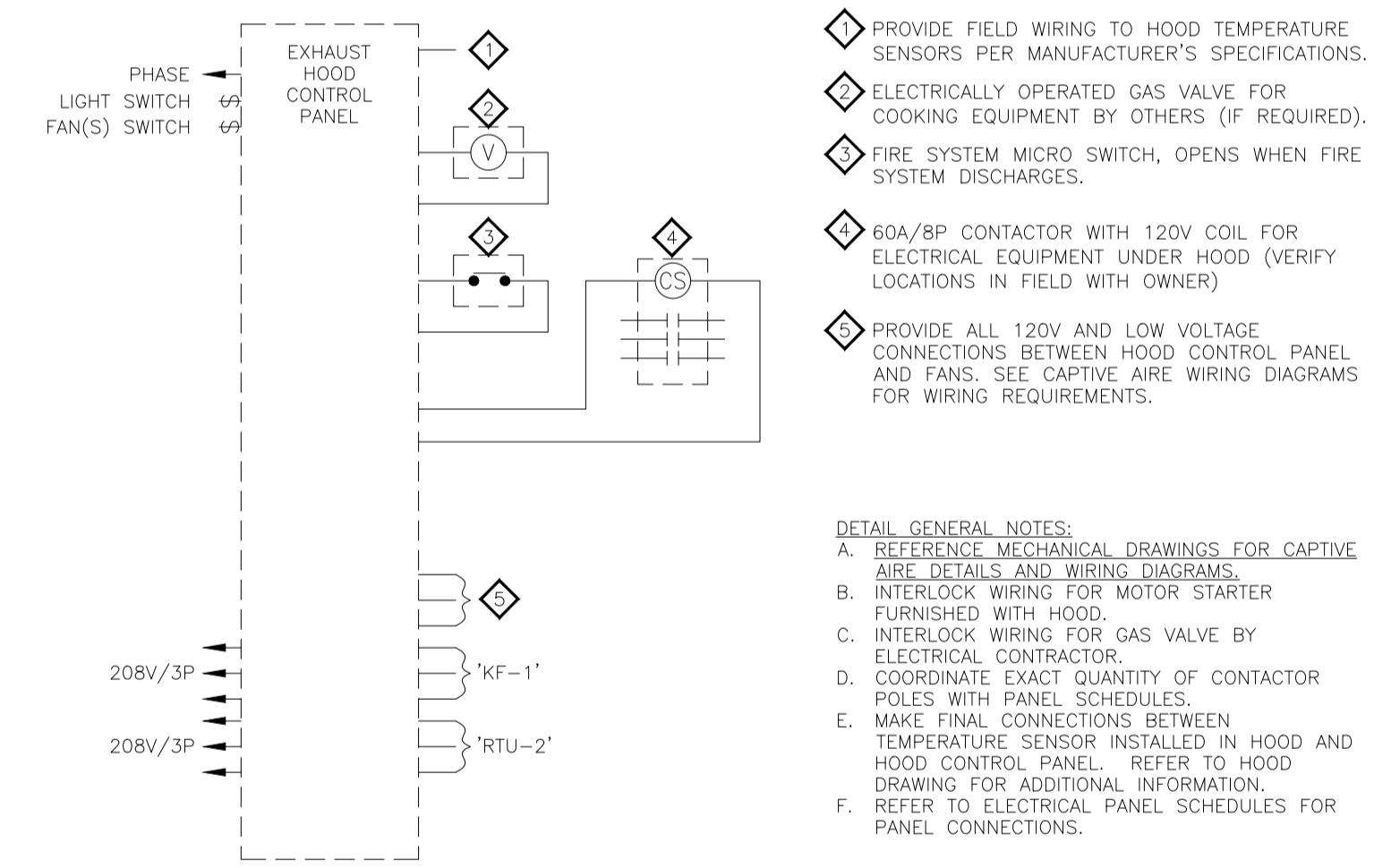
06 REMOTE HOOD FIRE PULL STATION
NOT TO SCALE



03 SWITCH BANK DETAIL
NOT TO SCALE



01 LIGHTING CONTROL DIAGRAM
NOT TO SCALE



02 EXHAUST HOOD SHUT-DOWN WIRING DIAGRAM (HCP)
NOT TO SCALE

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION

PROJECT NORTH

N

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NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER ASHLEY HASKIN

10.30.2023

Company Logo

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ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-543-9400 www.dimensiongroup.com

Project

LOUISIANA KITCHEN

POPEYES

Store Type

US 2112 PROTOTYPE
2112-21

Location

**1517 NC 24-87
CAMERON, NC**

Drawing Title

ELECTRICAL DETAILS

Drawn	Checked
JP	AH
Scale	Date
NOT TO SCALE	JUNE 2023
Project No.	Drawing No.
C22-129	E3.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

"MORNING ARRIVAL"

STEP 1
TURN THE KITCHEN UNOCCUPIED-OCCUPIED SWITCH TO THE UNOCCUPIED 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 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"

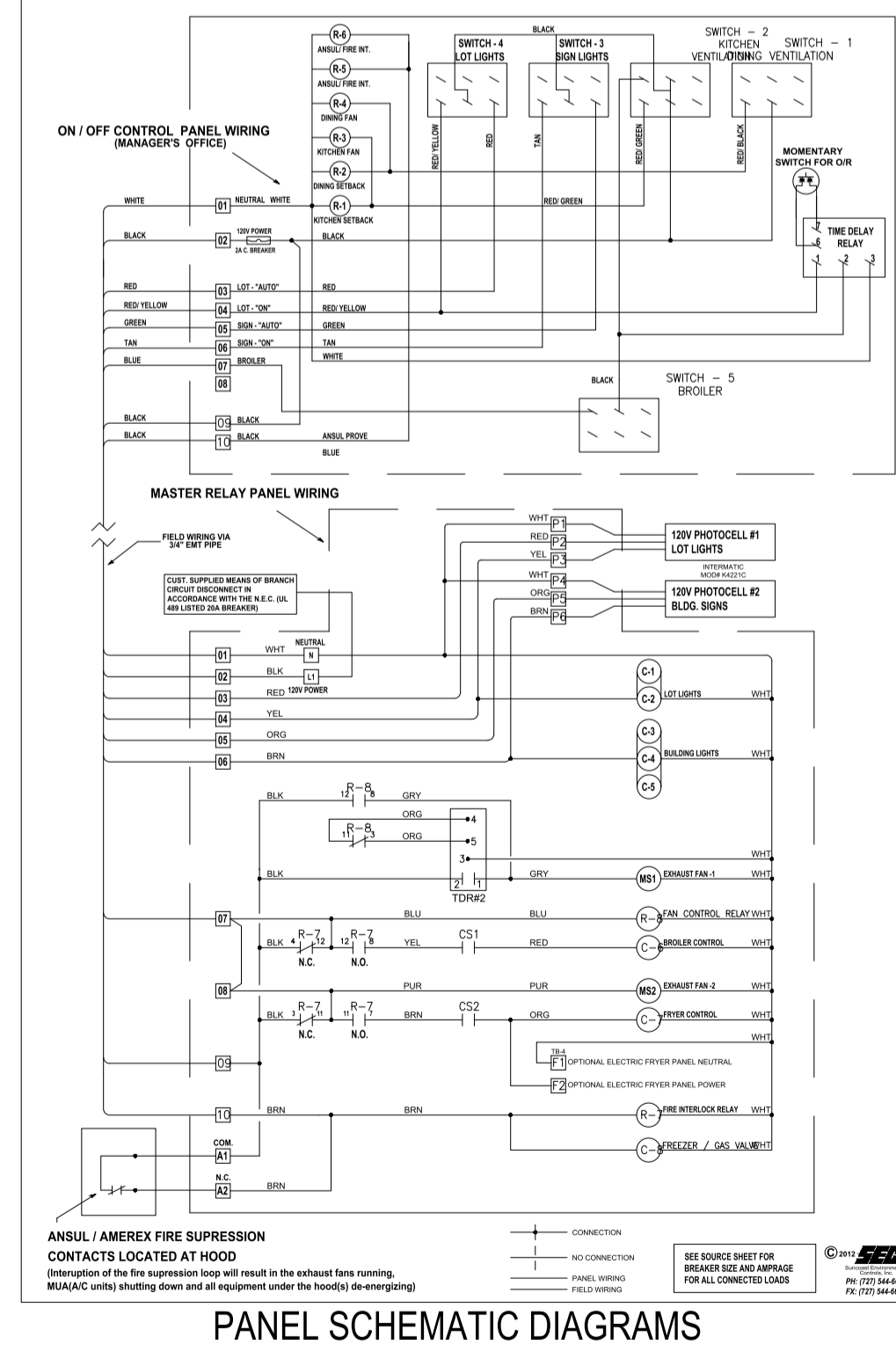
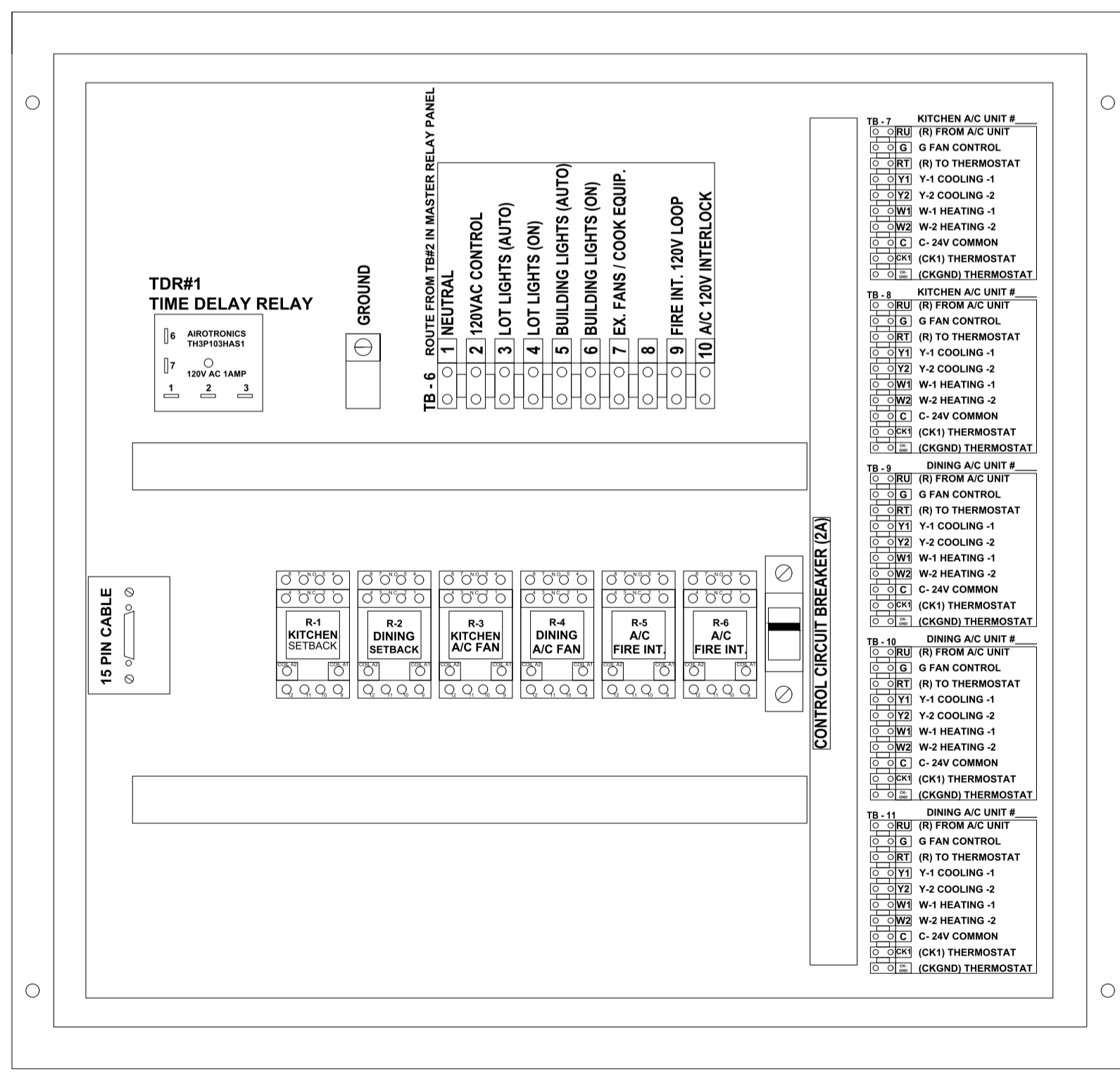
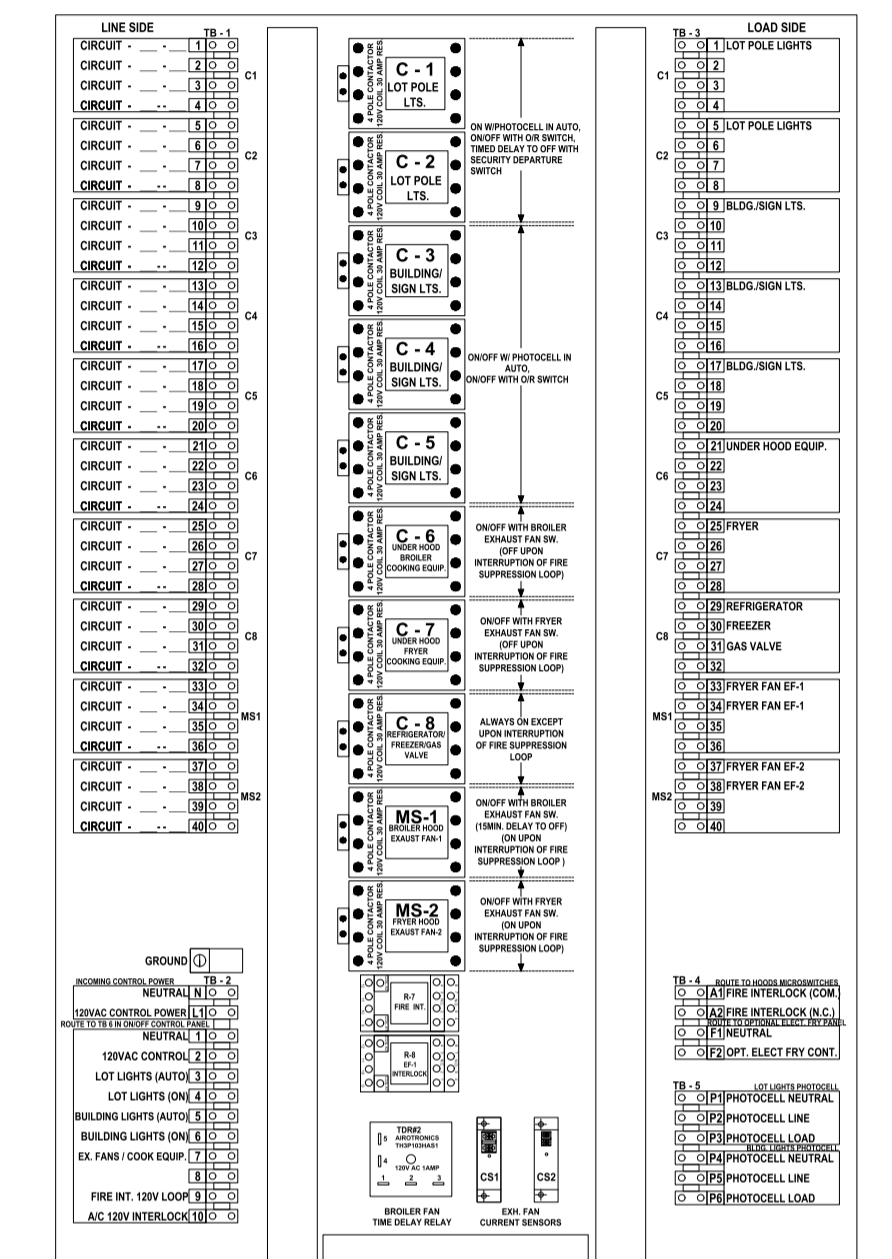
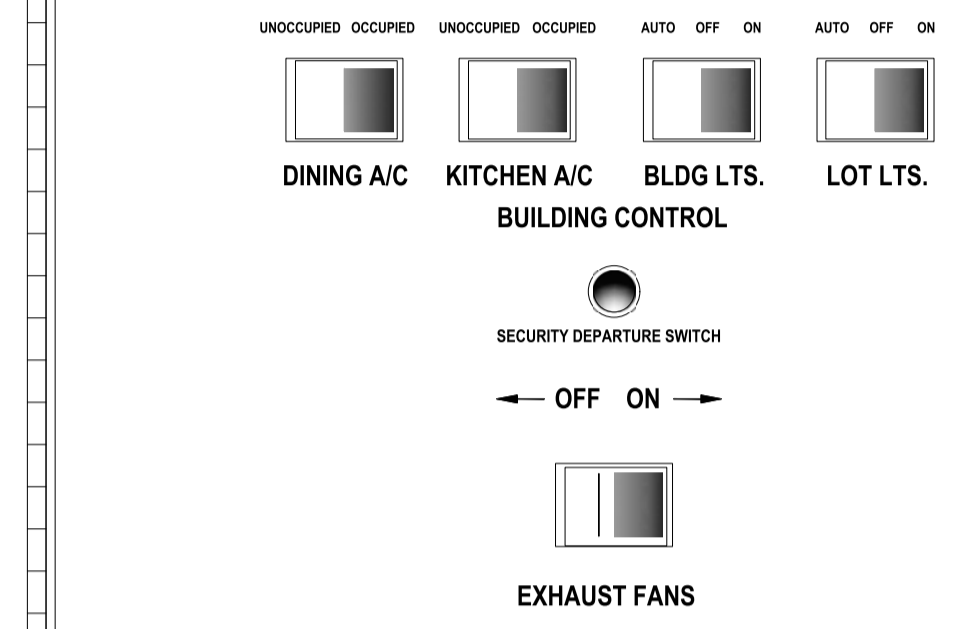
WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE (SUCH AS A BELT BREAKING) IT WILL DISABLE THE LINE VOLTAGE TO THE COOKING EQUIPMENT UNDER THE HOOD. THE EXHAUST FAN SWITCH SHOULD BE PLACED IN THE OFF POSITION AND THE FAN SHOULD BE CHECKED AND/OR REPAIRED BEFORE TURNING THE SWITCH TO 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 off should a hood 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 potentiometer dial clockwise until the status "ON" red LED lights.

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POPEYES SEQUENCE OF OPERATION

MANUAL CONTROL SYSTEM

THE AC UNITS UNOCCUPIED-OCCUPIED SWITCH IS USED TO: TURN THE STORE ON IN THE MORNING AND OFF IN THE EVENING. WHEN AC 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 AC 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 EQUIPMENT SHALL BE STARTED BY MOVING THE EXHAUST FANS ON/OFF SWITCH TO THE ON POSITION. IF 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 AC 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 BUILDING ACCENT LIGHTING.

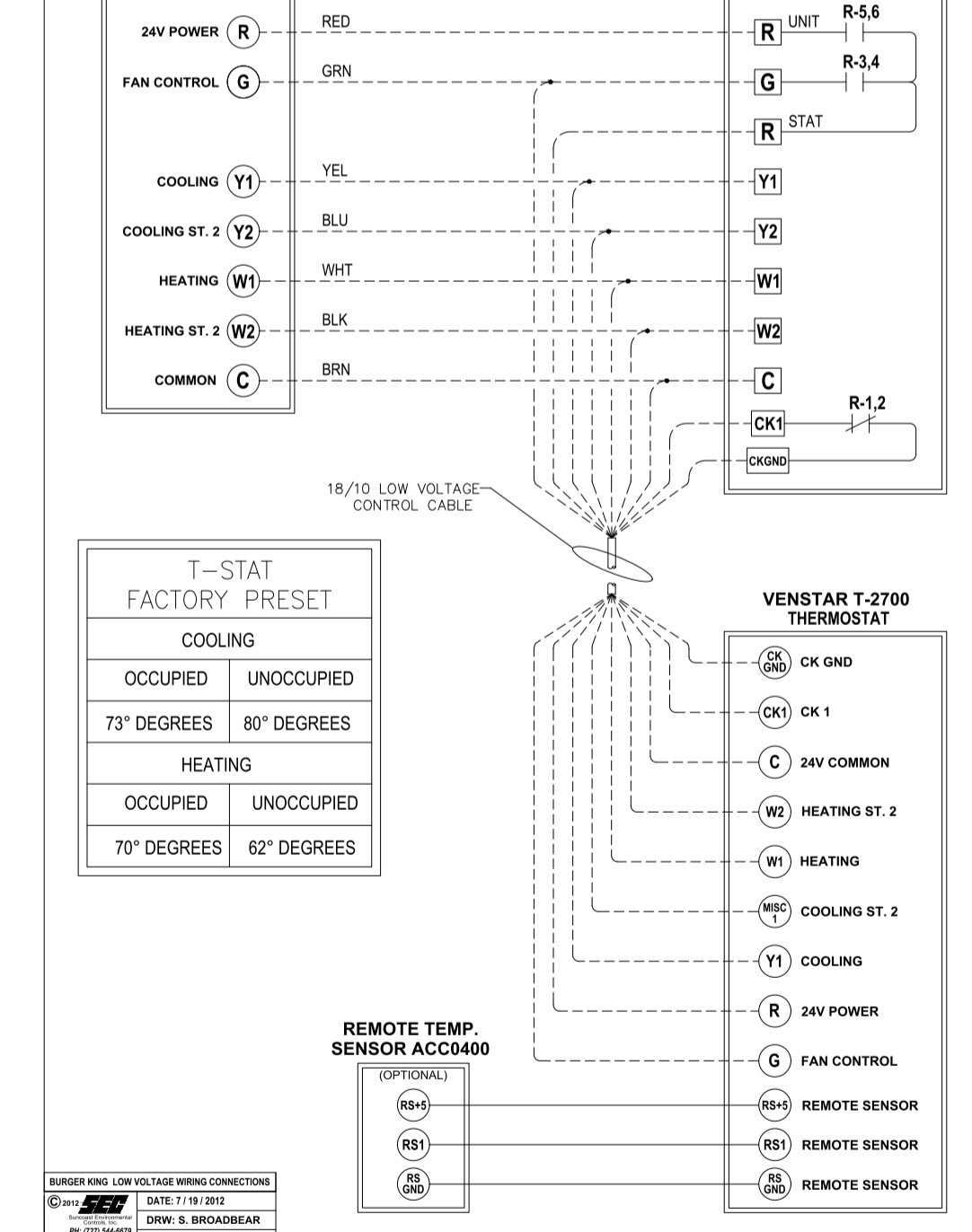
ON POSITION: LIGHTING SHALL BE ON PERMANENTLY.

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.



ELECTRICAL CONTRACTOR NOTES:

- RUN ONE (1) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE "UNOCCUPIED-OCCUPIED" PANEL.
- RUN ONE (1) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE "UNOCCUPIED-OCCUPIED" PANEL TO THE THERMOSTAT LOCATION.
- RUN ONE (1) 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.
- TERMINATION OF ALL 24 VOLT AIR CONDITIONING CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR.
- 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

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description

ISSUED FOR CONSTRUCTION


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".


10.30.2023

Company Logo


 ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
 10755 SANDHILL ROAD, DALLAS, TEXAS 75238
 TEL: 214-343-9400 www.thedimensiongroup.com

Project


POPEYES

Store Type

US 2112 PROTOTYPE
2112-21

Location

**1517 NC 24-87
CAMERON, NC**

Drawing Title	
ELECTRICAL DETAILS	
Drawn	Checked
JP	AH
Scale	Date
NOT TO SCALE	JUNE 2023
Project No.	Drawing No.
C22-129	E3.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.2 (ME115)²	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.6 (ME141)¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms. Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.4 (ME37)²	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.5 (ME116)²	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.11.1 (ME60)²	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.3 (ME50)²	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.3 (ME50)²	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.5 (ME26)¹	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.5 (ME26)¹	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1 (ME63)²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Project Title: Popeye's
Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 11 of 19 COMCHECK.cck
Report date: 05/25/23

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.9.5 (ME31)¹	Condenser heat recovery system that can heat water to 85°F or provide 60% of peak heat rejection is installed for preheating of service hot water.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.9.5 (ME31)¹	Condenser heat recovery system that can heat water to 85°F or provide 60% of peak heat rejection is installed for preheating of service hot water.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2.1 (ME53)¹	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2 (ME54)¹	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2 (ME54)¹	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.1 (ME123)²	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Project Title: Popeye's
Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 12 of 19 COMCHECK.cck
Report date: 05/25/23

Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 (EL22)¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 (EL18)¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sq ft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 (EL19)¹	Occupancy sensors control function in warehouses in warehouses, the lighting in aiseways and open areas is controlled with occupancy sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupancy sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1 (EL20)¹	Occupant sensor control function in open plan office areas. Occupant sensor controls in open office spaces >= 300 sq ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2 (EL21)¹	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls, and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Project Title: Popeye's
Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 13 of 19 COMCHECK.cck
Report date: 05/25/23

Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3 (EL23)²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.2. Daylight-responsive controls for applicable spaces, C405.2.3.1. Daylight responsive control function and section C405.2.3.2.2. Sidelet zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.4 (EL26)¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 (EL27)²	Additional interior lighting power per approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.5 (EL28)²	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.6 (EL30)²	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting >= 30%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 (EL6)¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.6 (EL26)¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.7 (EL27)²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2 (EL28)²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 (EL29)²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Project Title: Popeye's
Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 14 of 19 COMCHECK.cck
Report date: 05/25/23

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION



PROJECT NORTH

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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C303.3 (F117)¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C303.3 (F18)¹	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.2 (F127)¹	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4 (F147)¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4 (F147)¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1 (F138)¹	Thermostatic controls have a 5°F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4 (F120)¹	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4 (F139)¹	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4 (F140)¹	Automatic Controls: Setback to 55°F (heat) and 85°F (cool), 7-day clock, 2-hour occupant override, 10-hour backup.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.3 (F111)¹	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.4 (F125)²	All piping insulated in accordance with section details and Table C403.11.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Project Title: Popeye's
Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 16 of 19 COMCHECK.cck
Report date: 05/25/23

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C404.6.1 (F112)¹	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 (F118)¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 (F119)¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 (F157)¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.1 (F128)¹	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3 (F131)¹	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3 (F110)¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.4 (F129)¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 (F17)¹	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 (F116)¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 (F143)¹	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Project Title: Popeye's
Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 17 of 19 COMCHECK.cck
Report date: 05/25/23

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5 (F130)¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 (F133)¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Project Title: Popeye's
Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 18 of 19 COMCHECK.cck
Report date: 05/25/23

10.30.2023

Company Logo



POPEYES

Store Type: US 2112 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: ELECTRICAL ENERGY CALCS

Drawn	Checked
JP	AH
Scale	Date
NOT TO SCALE	JUNE 2023
Project No.	Drawing No.
C22-129	E4.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO 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 AFFECT 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 "NRC4" 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. THE TEMPORARY SYSTEM SHALL BE REMOVED IMMEDIATELY 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, GROUNDING 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 CLOUDS, 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 NEARLY MINIMUM OPENINGS. REFER TO STRUCTURAL DRAWINGS FOR LITTELS AND SUPPORTS TO BE FURNISHED BY OTHERS FOR THE ELECTRICAL WORK. ALL OTHER LITTELS 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 REQUIREMENTS.
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 GROUND 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, COMMERCIALY 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, COMMERCIALY 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 UNDERWRITERS 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/F74 FLAME TEST
 - 6.5. CONSTRUCTION SHALL BE CLASS B STRANDED, UNCOATED ANNEALED COPPER; EACH CONDUCTOR SHALL BE INSULATED WITH BLACK POLYETHYLENE, A 5 MIL UNCOATED COPPER TAP SHEILD, 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 488A 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
BLACK	A
RED	B
BLUE	C
WHITE	NEUTRAL
GREEN	GROUND
GREEN W/ YELLOW STRIP	ISOLATED GROUND

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.
 - B. RIGID NONMETALLIC CONDUIT (PVC) G. SURFACE RACEWAYS H. WIREWAY I. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE
3. 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.
4. 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.
 - 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. CONCEALED, 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 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 JOINTS SHALL BE MADE IN ACCORDANCE WITH THE ADOPTED CODE. BE INSTALLED 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 NOT SUSPENDED FROM ROOF 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 MONOPLAMMENT 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 FITTINGS FOR ELECTRICAL INSTALLATIONS AND CERTAIN TYPES OF ELECTRICAL FITTINGS NOT COVERED IN OTHER SECTIONS
2. METAL OUTLET, DEVICE, AND SMALL WIRING BOXES:
 - A. GENERAL: CONFORM TO UL 514A "METALLIC OUTLET BOXES, ELECTRICAL," AND UL 514B, "FITTINGS FOR CONDUIT AND OUTLET BOXES." BOXES SHALL BE OF TYPE, SHAPE, SIZE, AND DEPTH TO SUIT EACH LOCATION AND APPLICATION.
 - B. STEEL BOXES: CONFORM TO NEMA OS 1, "SHEET STEEL OUTLET BOXES, DEVICE BOXES, COVERS, AND BOX SUPPORTS." BOXES SHALL BE SHEET STEEL WITH STAMPED KNOCKOUTS, THREADED SCREW HOLES AND ACCESSORIES SUITABLE FOR EACH LOCATION INCLUDING MOUNTING BRACKETS AND STRAPS, CABLE CLAMPS, EXTERIOR RINGS AND FIXTURE STUDS.
 - C. CAST-IRON FLOOR BOXES: FULLY ADJUSTABLE, WATERPROOF, WITH THREADED RACEWAY ENTRANCES, RECTANGULAR BOX OPENING, ADJUSTING RINGS, GASKETS, BRASS FLOOR PLATES, AND POLYCARBONATE CARPET FLANGES WHERE INDICATED. PROVIDE MULTI-SECTION BOXES WITH INDIVIDUAL HINGED SECTION COVERS AND PROVIDE FOR A DUPLEX RECEPTACLE UNDER ONE OR MORE OF THE COVERS.
3. PULL AND JUNCTION BOXES:
 - A. COMPLY WITH UL 50, "ELECTRICAL CABINETS AND BOXES," FOR BOXES OVER 100 CUBIC INCHES VOLUME. BOXES SHALL HAVE SCREWED OR BOLTED ON COVERS OF MATERIAL SAME AS BOXES AND SHALL BE OF SIZE AND SHAPE TO SUIT APPLICATION.
 - B. STEEL BOXES: SHEET STEEL WITH WELDED SEAMS. WHERE NECESSARY TO PROVIDE A RIGID ASSEMBLY, CONSTRUCT WITH INTERNAL STRUCTURAL STEEL BRACING.
 - C. HOT-DIPPED GALVANIZED STEEL BOXES: SHEET STEEL WITH WELDED SEAMS, WHERE NECESSARY TO PROVIDE A RIGID ASSEMBLY, CONSTRUCT WITH INTERNAL STRUCTURAL STEEL BRACING. HOT-DIP GALVANIZED AFTER FABRICATION.
4. CABINETS:
 - A. COMPLY WITH UL 50, "ELECTRICAL CABINETS AND BOXES." SHEET STEEL, NEMA 1 CLASS EXCEPT AS OTHERWISE INDICATED. CABINET SHALL CONSIST OF A BOX AND A FRONT CONSISTING OF A ONE-PIECE FRAME AND A HINGED DOOR. ARRANGE DOOR TO CLOSE AGAINST A RABBIT PLACED ALL AROUND THE INSIDE EDGE OF THE FRAME, WITH A UNIFORM CLOSE FIT BETWEEN DOOR AND FRAME. PROVIDE CONCEALED FASTENERS, NOT OVER 24-INCHES APART, TO HOLD FRONT TO CABINET BOXES AND PROVIDE FOR ADJUSTMENT. PROVIDE FLUSH OR CONCEALED DOOR HINGES NOT OVER 24-INCHES APART AND NOT OVER 6-INCHES FROM TOP AND BOTTOM OF DOOR. FOR FLUSH CABINETS, MAKE THE FRONT APPROXIMATELY 3/4 INCH LARGER THAN THE BOX ALL AROUND. FOR SURFACE MOUNTED CABINETS MAKE FRONT SAME HEIGHT AND WIDTH AS BOX.
 - B. DOORS: DOUBLE DOORS FOR CABINETS WIDER THAN 24-INCHES. TELEPHONE CABINETS WIDER THAN 48-INCHES MAY HAVE SLIDING OR REMOVABLE DOORS.
 - C. LOCKS: COMBINATION SPRING CATCH AND KEY LOCK, WITH ALL LOCKS FOR CABINETS OF THE SAME SYSTEM KEYS ALIGNED. LOCKS MAY BE OMITTED ON SIGNAL, POWER, AND LIGHTING CABINETS LOCATED WITHIN WIRE CLOSETS AND MECHANICAL-ELECTRICAL ROOMS. LOCKS SHALL BE OF A TYPE TO PERMIT DOORS TO LATCH CLOSED WITHOUT LOCKING.
 - C. ENCLOSURE: WHERE DOOR GASKETING IS REQUIRED, PROVIDE NEOPRENE GASKET ATTACHED WITH OIL-RESISTANT ADHESIVE, AND HELD IN PLACE WITH STEEL RETAINING STRIPS. FOR ALL ENCLOSURES OF CLASS HIGHER THAN NEMA 1, USE HUBBED RAFFRAY ENTRANCES.
5. STEEL ENCLOSURES WITH HINGED DOORS:
 - A. COMPLY WITH UL 50, "CABINETS AND ENCLOSURES" AND NEMA ICS 6, "ENCLOSURES FOR INDUSTRIAL CONTROLS AND SYSTEMS." SHEET STEEL, 16 GAGE MINIMUM, WITH CONTINUOUS WELDED SEAMS. NEMA CLASS AS INDICATED ARRANGED FOR SURFACE MOUNTING.
 - B. DOORS: HINGED DIRECTLY TO CABINET AND REMOVABLE, WITH APPROXIMATELY 3/4-INCH FLANGE AROUND ALL EDGES, SHAPED TO COVER EDGE OF BOX. PROVIDE HANDLE OPERATED, KEY LOCKING LATCH. INDIVIDUAL DOOR WIDTH SHALL BE NO GREATER THAN 24-INCHES. PROVIDE MULTIPLE DOORS WHERE REQUIRED.
 - C. ENCLOSURE: WHERE DOOR GASKETING IS REQUIRED, PROVIDE NEOPRENE GASKET ATTACHED WITH OIL-RESISTANT ADHESIVE, AND HELD IN PLACE WITH STEEL RETAINING STRIPS. FOR ALL ENCLOSURES OF CLASS HIGHER THAN NEMA 1, USE HUBBED RAFFRAY ENTRANCES.
6. WEATHERPROOF PULL AND SPICE BOXES:
 - A. BOXES TO BE NEMA 12 AND 13 RATED, ALL STEEL CONSTRUCTION CONFORMING TO I.L.C. STANDARD EGP-1-1997. EXTERNAL MOUNTING FEET FOR SURFACE MOUNTING. OIL-RESISTANT GASKET ATTACHED TO INSIDE OF DOOR COVER. CONTINUOUS HINGE AND EXTERNAL SCREW CLAMP FOR QUICK OPENING AND CLOSING.
7. FIRESTOP FOR RECESSED WALL BOXES:
 - A. INSTALLATIONS OF MULTIPLE BOXES (LESS THAN 24" APART) WITH MAXIMUM 4-11/16" BY 4-11/16" FLUSH DEVICE UL LISTED METAL OUTLET BOXES IN FIRE RATED GYPSUM WALL BOARD WALL ASSEMBLIES FRAMED WITH MINIMUM 3-1/2" WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL US300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. 3M #MPF-4S MOLDABLE PUTTY PADS ARE TO BE INSTALLED ON THE EXTERIOR SURFACES OF THE FLUSH DEVICE BOX IN 1 AND 2 HOUR FIRE RATED WALLS AND PARTITIONS.
8. FLOOR BOXES IN SLABS ON GRADE AND WET LOCATIONS TO BE NEMA TYPE 4, CAST-IRON BOXES WITH THREADED HUBS. FLOOR BOXES LOCATED IN SLABS ABOVE GRADE CAN BE STAMPED STEEL. PLASTIC FLOOR BOXES ARE NOT APPROVED.
9. INSTALL IN CONCRETE FLOOR SLABS SO THEY ARE COMPLETELY ENVELOPED IN CONCRETE EXCEPT FOR THE TOP. WHERE NORMAL SLAB THICKNESS WILL NOT ENVELOP BOX AS SPECIFIED ABOVE, PROVIDE INCREASED THICKNESS OF THE SLAB. PROVIDE EACH COMPARTMENT OF EACH FLOOR BOX WITH GROUNDING TERMINAL CONSISTING OF A WASHER-IN-HEAD MACHINE SCREW, NOT SMALLER THAN NO. 10-32, SCREWED INTO A TAPPED HOLE IN THE BOX. ADJUST COVERS OF FLOOR BOXES FLUSH WITH FINISHED FLOOR.
9. PULL AND SPICE BOXES LOCATED OUTDOORS OR WHERE INDICATED ON DRAWINGS ARE TO BE WEATHERPROOF TYPE J.I.C. BOXES. CONDUIT TERMINATIONS ARE TO BE ACCOMPLISHED BY USING MEYER HUBS.
10. ELECTRICALLY GROUND METALLIC CABINETS, BOXES, AND ENCLOSURES. WHERE WIRING TO ITEM INCLUDES A GROUNDING CONDUCTOR, PROVIDE A GROUNDING TERMINAL IN THE INTERIOR OF THE CABINET, BOX OR ENCLOSURE.


ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

ISSUED FOR CONSTRUCTION



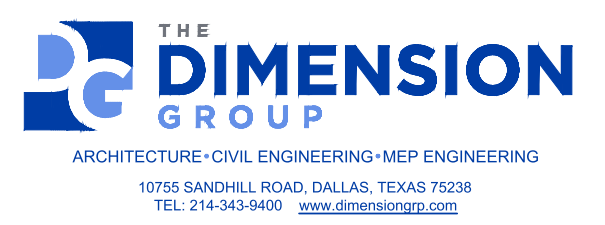
PROJECT NORTH

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10.30.2023

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Project



POPEYES

Store Type

US 2112 PROTOTYPE
2112-21

Location

**1517 NC 24-87
CAMERON, NC**

Drawing Title

**ELECTRICAL
SPECIFICATIONS**

Drawn	Checked
DW	AH
Scale	Date
	JUNE 2023
Project No.	Drawing No.
C22-129	ES.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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 CEILING.
 - C.3. BLACK – WHERE INSTALLED IN DARK CEILING.
 - 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 #15832

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 #KCSUV 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.
 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 5-3825 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 GANING AND CUTOUPS 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. D1 = 1000 WATTS, LEVITON #P110-1LX (120/277V INCANDESCENT)
 - I.1.2. D1 = 1200/1500 VA, LEVITON #IP710-LFZ (120/277V LED)
 - I.1.3. LD2 = 400 VA, LEVITON #PE04-1LX (ELECTRONIC LOW VOLTAGE)
 - I.1.4. LD3 = 1000 VA, LEVITON #PM10-1LX (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. LITELFUSE, 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 NAME TAG 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 FUSIAT, DUAL-ELEMENT, 10,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING, TYPE "S" WITH FUSIAT 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 CEILING 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 (TRAPEZ) 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. SIEMENS, 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.

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description


ISSUED FOR CONSTRUCTION



PROJECT NORTH


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10.30.2023

Company Logo



THE DIMENSION GROUP
 ARCHITECTURE • CIVIL ENGINEERING • MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
 TEL: 214-343-9400 www.thedimensiongroup.com

Project



POPEYES

Store Type
**US 2112 PROTOTYPE
 2112-21**

Location
**1517 NC 24-87
 CAMERON, NC**

Drawing Title
**ELECTRICAL
 SPECIFICATIONS**

Drawn	Checked
DW	AH
Scale	Date
	JUNE 2023
Project No.	Drawing No.
C22-129	ES.2

ELECTRICAL KEYNOTES

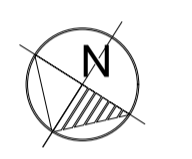
- 1 PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO OUTDOOR MENUBOARD.
- 2 PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO ORDER PEDESTAL AND DETECTOR LOOP.
- 3 PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO PRE ORDER MENUBOARD.
- 4 PROVIDE POWER TO INDEPENDENT STANDING DRIVE THRU LIGHT POSTS. CONFIRM CONNECTION WITH LIGHT POST MANUFACTURER (ENTERA BRANDING).

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description

REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
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10.30.2023

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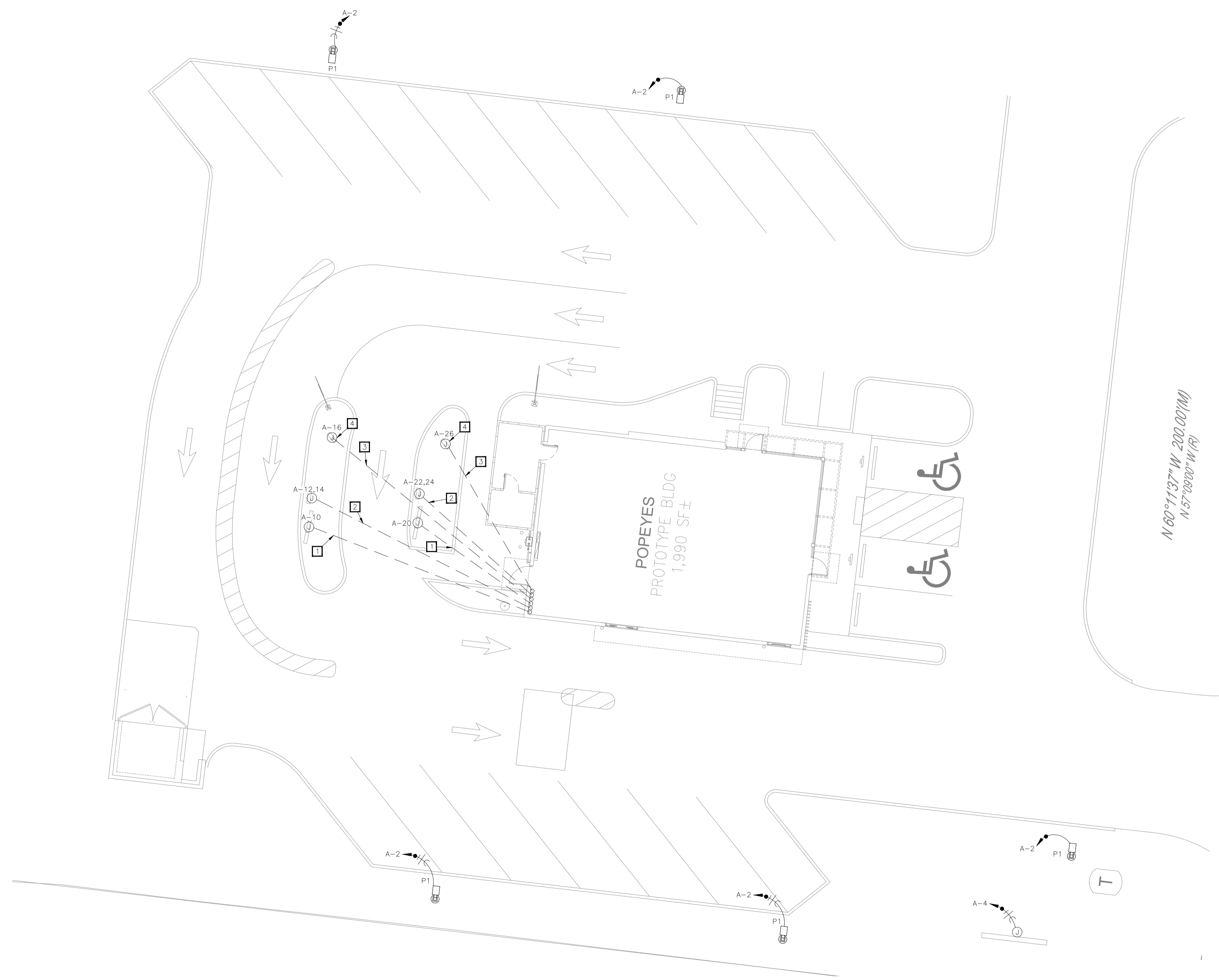
Project

Store Type
US 2112 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
ELECTRICAL SITE PLAN

Drawn JP	Checked AH
Scale 3/32"=1'-0"	Date JUNE 2023
Project No. C22-129	Drawing No. ES1.0



01 ELECTRICAL SITE PLAN
3/32"=1'-0"

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129