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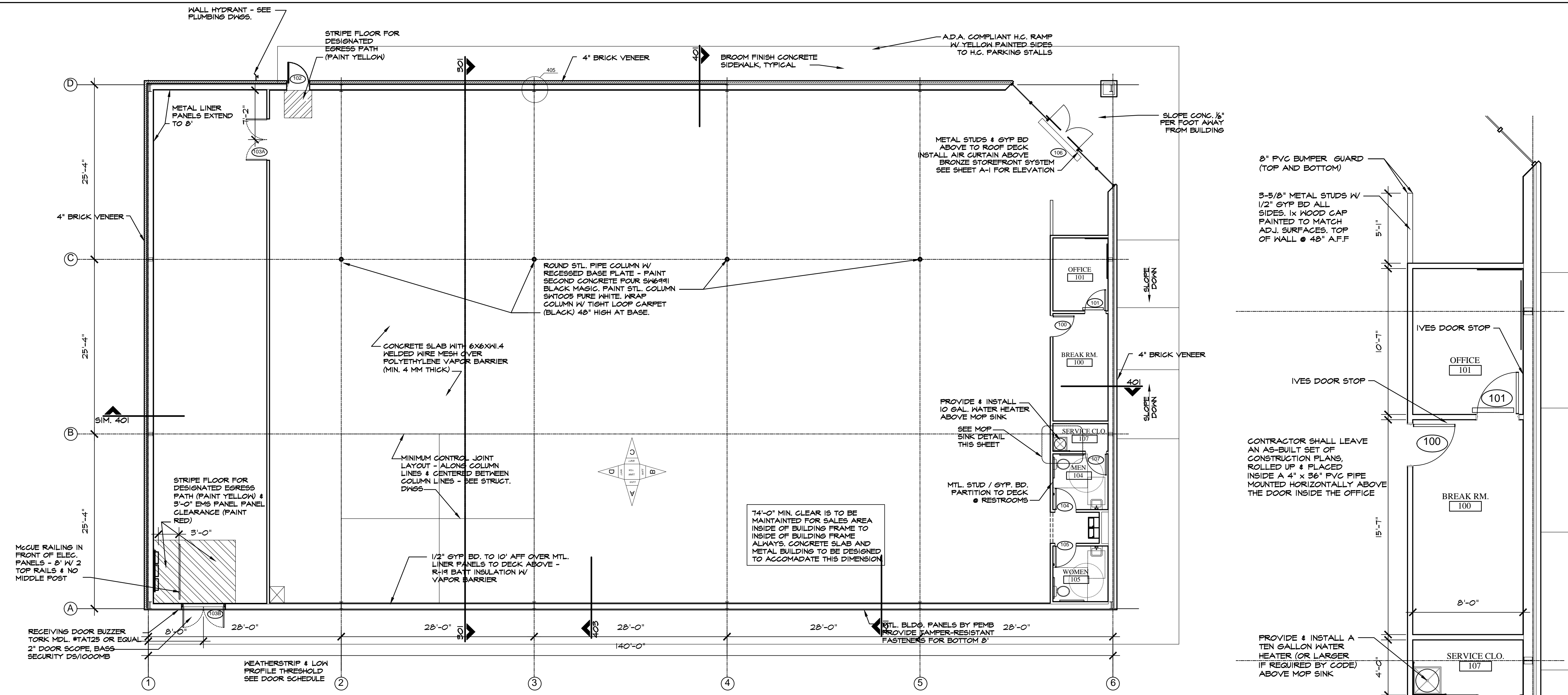
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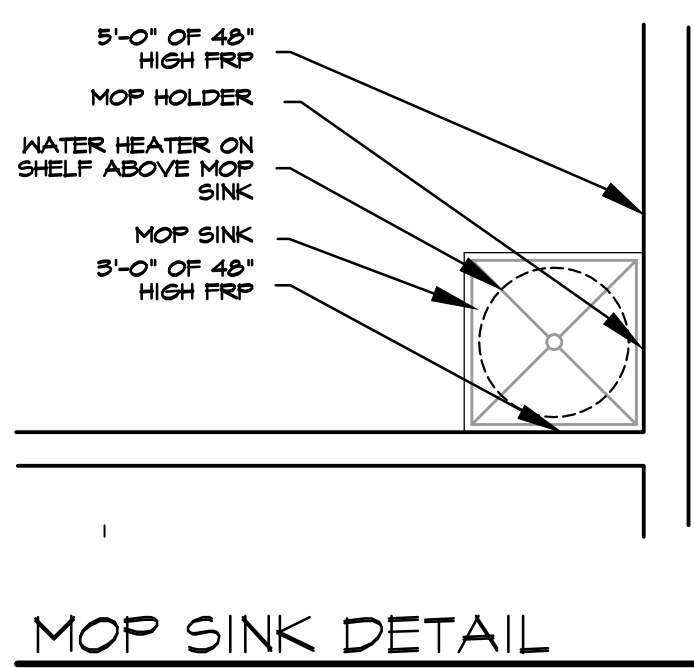
**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NORTH CAROLINA

JOB NUMBER  
 DRAWN BY  
 MAH  
 DATE  
 04/04/22  
 REVISIONS

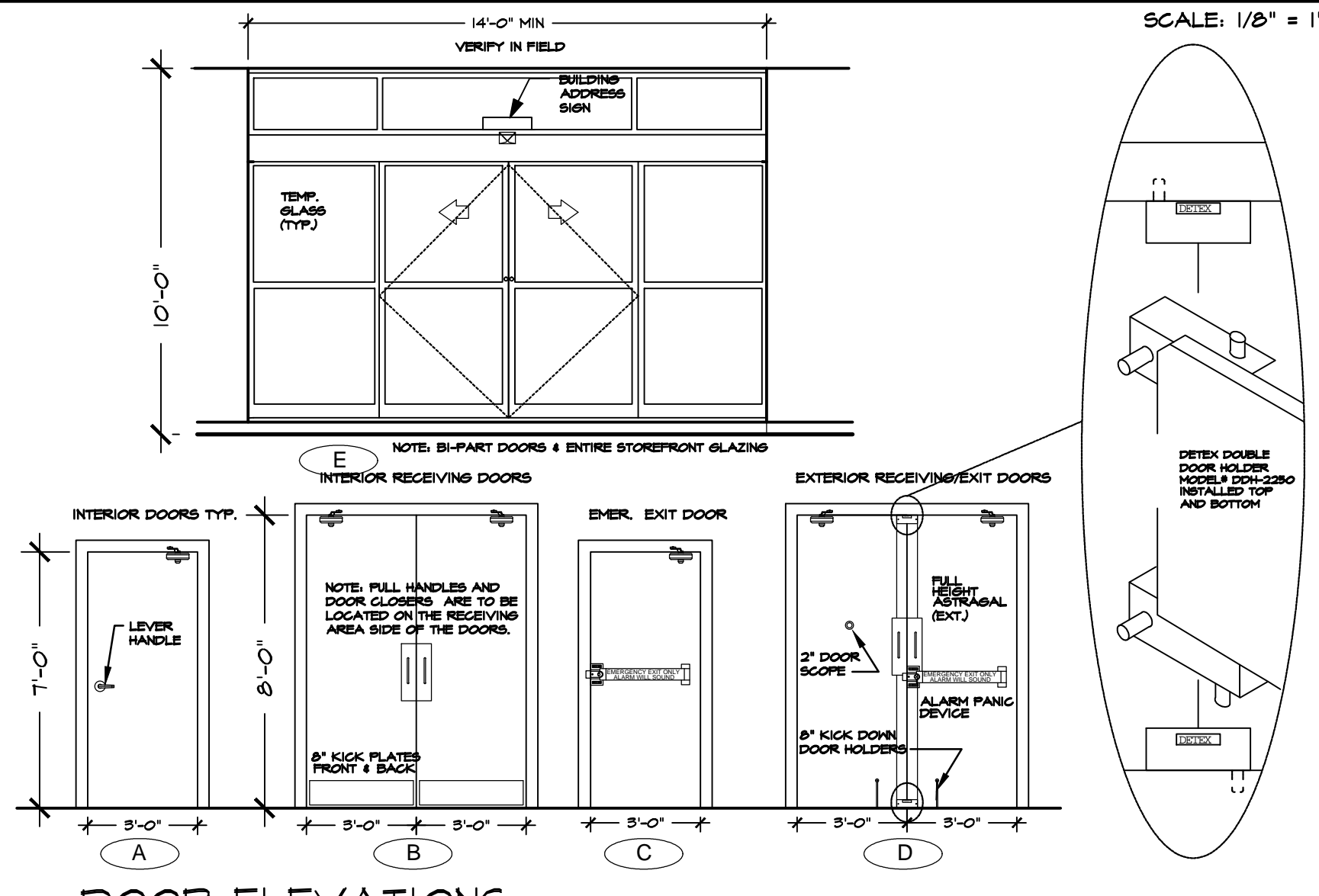
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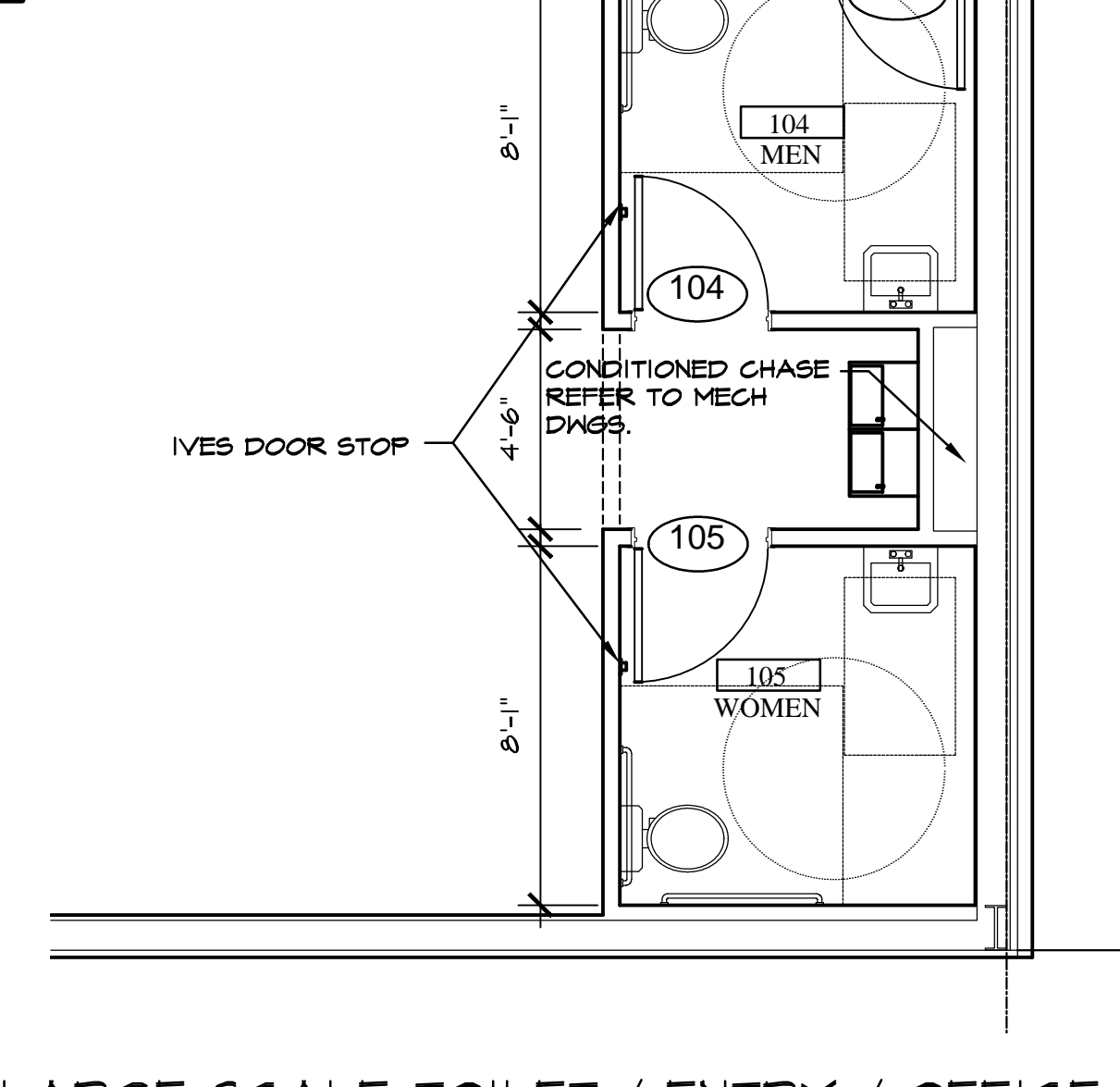
**FLOOR PLAN** NOTE: ALL CONTRACTORS SHALL REVIEW & MAINTAIN 11 X 17 DOLLAR GENERAL CURRENT PROTOTYPE PLAN "F" DGP BUILD-TO-SUIT PACKAGE ON JOB SITE



**MOP SINK DETAIL** SCALE: 1/2" = 1'-0"



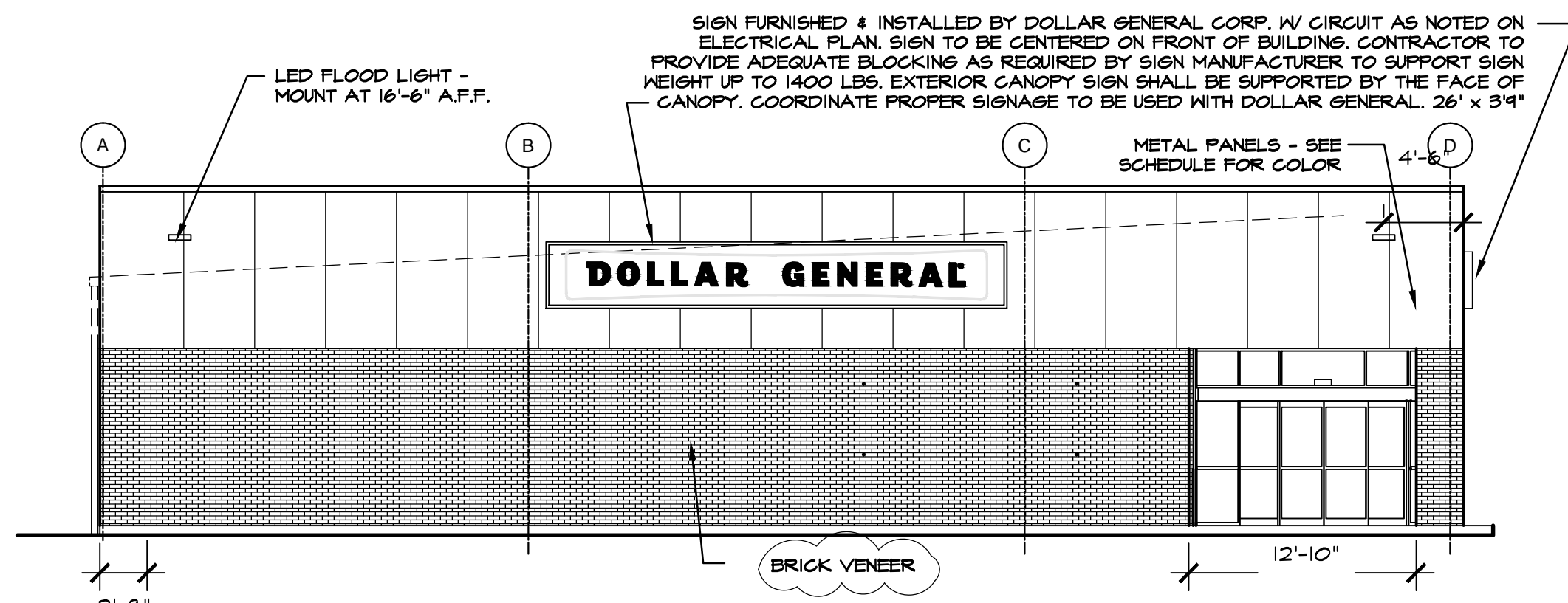
**DOOR ELEVATIONS** SCALE: 1/4" = 1'-0"



**LARGE SCALE TOILET / ENTRY / OFFICE** SCALE: 1/4" = 1'-0"

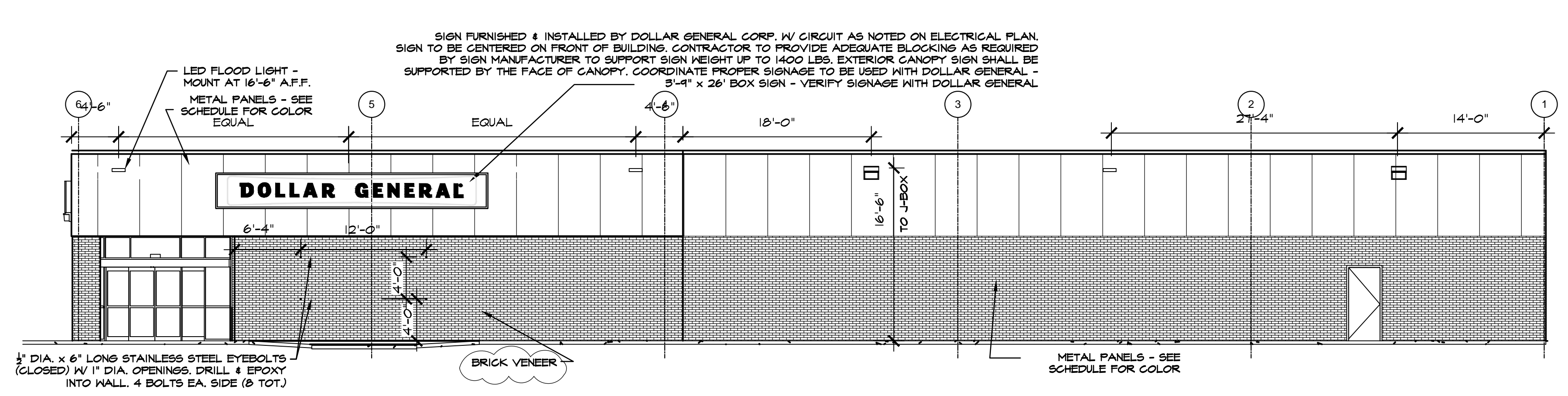
ROOM FINISH SCHEDULE											
NO	ROOM NAME	FLOOR	BASE	A WALL	B WALL	C WALL	D WALL	CEILING MATERIAL	CEILING FINISH	REMARKS	
100	BREAK RM.	CONCRETE FLOOR SEALED	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	EXPOSED TO STRUCTURE ABOVE	N/A		
101	OFFICE	CONCRETE FLOOR SEALED	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	EXPOSED TO STRUCTURE ABOVE	N/A		
102	SALES AREA	CONC. FLOOR POLISHED (STEPS 1-4)	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BD. ON WHITE METAL LINER PANELS. SEE ELEV. - SHF A-3	GYPSUM BD. ON WHITE METAL LINER PANELS. SEE ELEV. - SHF A-3	GYPSUM BD. ON WHITE METAL LINER PANELS. SEE ELEV. - SHF A-3	EXPOSED TO STRUCTURE ABOVE	N/A		
103	RECEIVING AREA	CONCRETE FLOOR SEALED	CONCRETE SEALER	N/A	N/A	METAL LINER PANEL FROM FLOOR TO 8' AFF.	WHITE	EXPOSED TO STRUCTURE ABOVE	N/A		
104	MEN	CONCRETE FLOOR SEALED	SHERVIN HILLIAMS ACRYLIC SILICONE BLK. GLOSS/LATE HC-IT	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 8'-0" AFF.	8" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	GYPSUM BOARD TO 8'-0" AFF.	8" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	8'-0" AFF.		
105	WOMEN	CONCRETE FLOOR SEALED	SHERVIN HILLIAMS ACRYLIC SILICONE BLK. GLOSS/LATE HC-IT	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 8'-0" AFF.	8" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	GYPSUM BOARD TO 8'-0" AFF.	8" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	8'-0" AFF.		
107	SERVICE CLOSET	CONCRETE FLOOR SEALED	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 8'-0" AFF.	4" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	GYPSUM BOARD TO 8'-0" AFF.	4" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	8'-0" AFF.		
108	HALL	CONC. FLOOR POLISHED (STEPS 1-4)	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 8'-0" AFF.	4" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	GYPSUM BOARD TO 8'-0" AFF.	4" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	8'-0" AFF.		

DOOR SCHEDULE				HARDWARE		REMARKS	
NO.	TYPE	WIDTH	HEIGHT	THICK.			
100	A	3'-0"	7'-0"	1-3/4"	(1) STANLEY PASSAGE LOCKSET GCL250-E-626-54 - NO KEY REQ'D. (1) STANLEY DOOR CLOSER GDC311-6M4	SOLID CORE HOOD DOOR OR HOLLOW CORE METAL DOOR & FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS	
101	A	3'-0"	7'-0"	1-3/4"	(1) IVES HALLSTOP #402-260-260, (1/2) PAIR HINGES	SOLID CORE HOOD DOOR OR HOLLOW CORE METAL DOOR & FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS	
102	C	3'-0"	7'-0"	1-3/4"	(1) STANLEY STOREROOM LOCKSET GCL710-E-626-54-SC-KD - KEY #2, (1) STANLEY DOOR CLOSER GDC311-6M4, (1) IVES HALL STOP #402-260-260, (1) TACO DOOR VENER FRASIONS, (1/2) PAIR HINGES	SOLID CORE HOOD DOOR OR HOLLOW CORE METAL DOOR & FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS	
103A	B	6'-0"	8'-0"	1-3/4"	(1) VON DUPRIN GUARD-X EXIT ALARM LOCK #2070-26, (1) STANLEY DOOR CLOSER GDC311-6M4, (1) DOOR PULL AN US20, (2) BURNS PULL PLATES #540-250-260-SRFP, (2) BURNS PULL PLATES #540-250-260-SRFP, (2) IVES 4" DOOR HOLDERS #4250-48 - NOT FIRE RATED WALL, (2) PAIR HINGES	HOLLOW CORE METAL DOOR & FRAME PAINT EXTERIOR SH-TCH, VAN DYKE BROWN SEMI-GLOSS, INTERIOR SH-BLACK MAGIC, 6MM SEMI-GLOSS	
103B	D	6'-0"	8'-0"	1-3/4"	(1) VON DUPRIN GUARD-X EXIT ALARM LOCK #2070-26, (1) VON DUPRIN GUARD-X DOUBLE DOOR SPRING #300, (1) DETEX DOUBLE DOOR HOLDER #004-250-260-TOP & BOTTOM, (2) STANLEY DOOR CLOSER GDC311-6M4, (1) TACO DOOR VENER FRASIONS, (1/2) PAIR HINGES	FIRE RATED DOORS, SOLID CORE HOOD DOORS OR HOLLOW CORE METAL DOORS & FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS	
104	A	3'-0"	7'-0"	1-3/4"	(1) STANLEY STOREROOM LOCKSET GCL710-E-626-54-SC-KD - KEY #2, (1) STANLEY DOOR CLOSER GDC311-6M4, (1) IVES HALL STOP #402-260-260, (1) TACO DOOR VENER FRASIONS, (1/2) PAIR HINGES	HOLLOW CORE METAL DOORS & FRAME INTERIOR PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS EXTERIOR PAINTED SH-TCH, VAN DYKE BROWN SEMI-GLOSS	
105	A	3'-0"	7'-0"	1-3/4"	(1) STANLEY STOREROOM LOCKSET GCL710-E-626-54-SC-KD - KEY #2, (1) STANLEY DOOR CLOSER GDC311-6M4, (1) IVES HALL STOP #402-260-260, (1) TACO DOOR VENER FRASIONS, (1/2) PAIR HINGES	SOLID CORE HOOD DOORS OR HOLLOW CORE METAL DOORS & FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS	
107	E	6'-0"	7'-0"	NS	BY DOOR MANUFACTURER TO BE RE-KEYED BY DOLLAR GENERAL AREA MANAGER WITH (1) LGO RIM CYLINDER #10562-260.	14'-0" SLIP-FIT WITH TRANSOM AND HINDOCS, BRONZE FINISH	



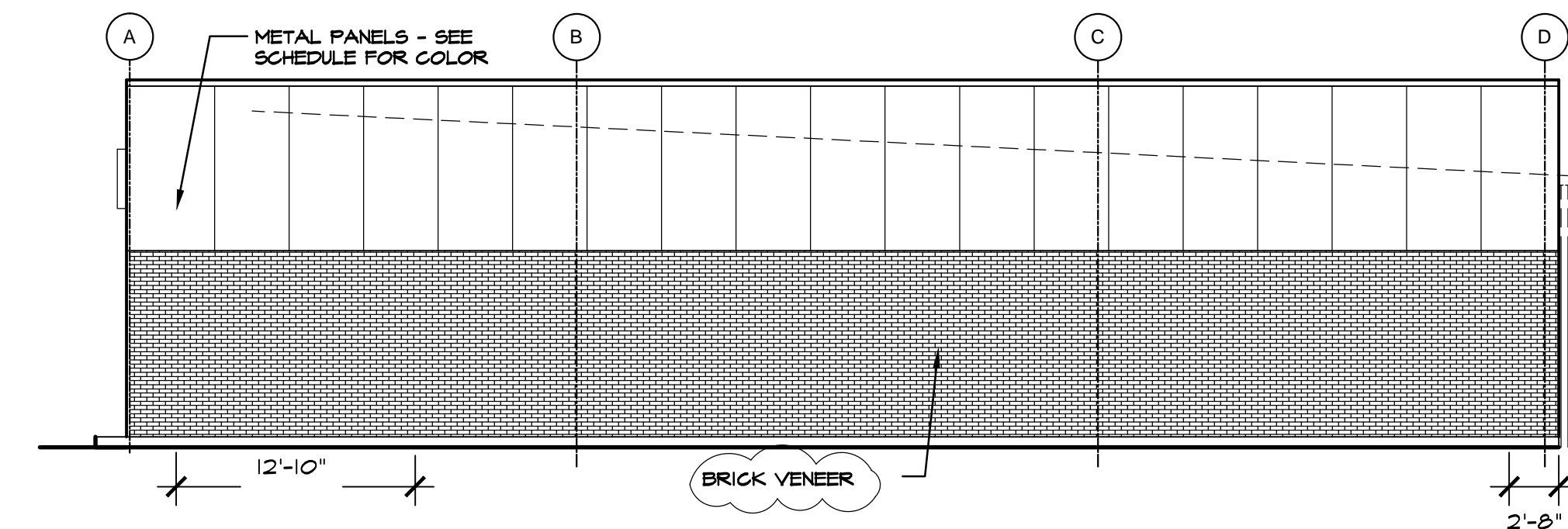
FRONT ELEVATION (MAMERS ROAD)

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



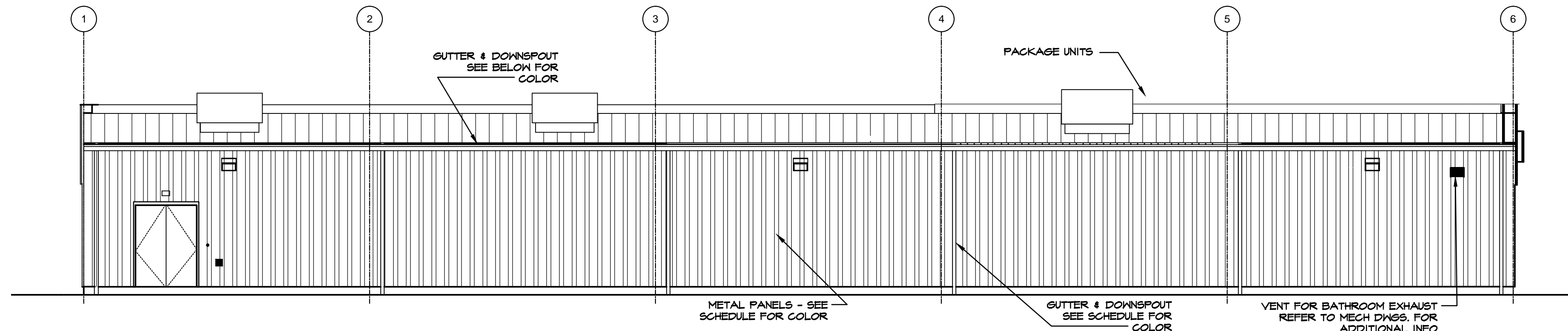
RIGHT SIDE ELEVATION (US HWY 421 N)

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



REAR ELEVATION

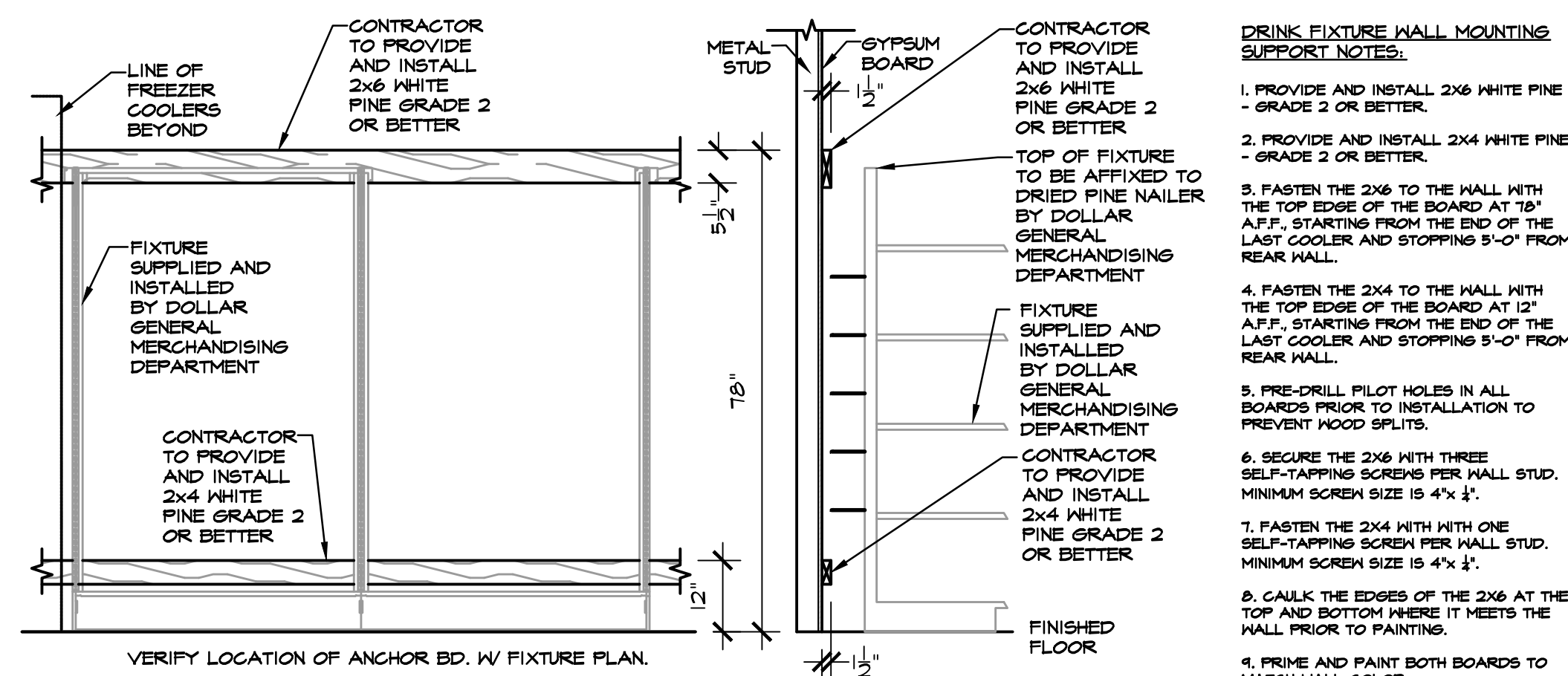
SCALE: 1/8" = 1'-0"



LEFT SIDE ELEVATION

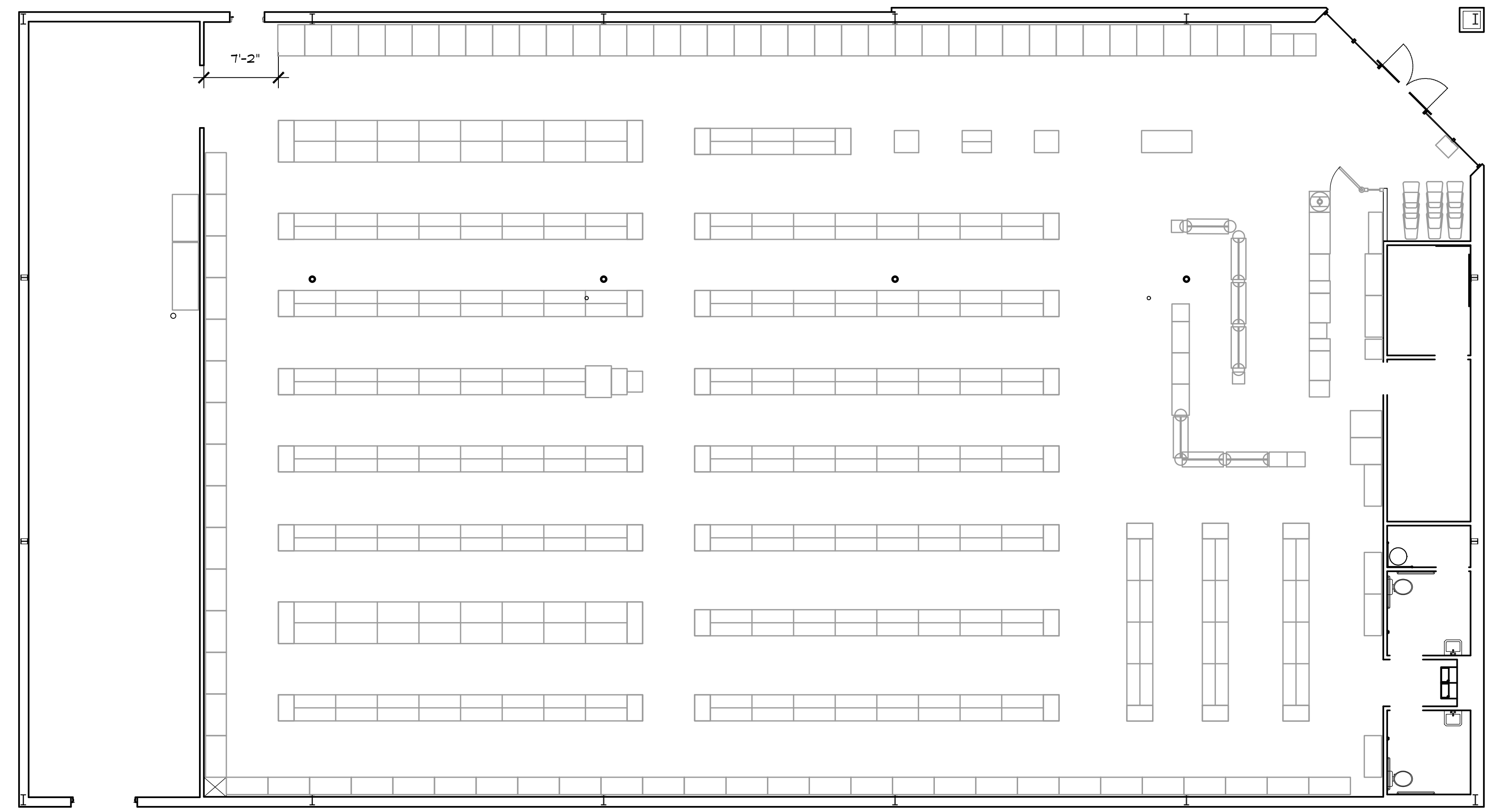
SCALE: 1/8" = 1'-0"

	PRE-ENGINEERED METAL BUILDING VENDOR	VP BUILDINGS ATTN: DAVID ENGLISH (901) 748-6103	STAR BUILDING SYSTEMS ATTN: JEFF HORN (866) 664-8899	NUCOR BUILDING SYSTEMS ATTN: BOB BARRY (313) 622-4440 (260) 837-7891	BIG BEE STEEL BUILDINGS, INC. ATTN: KEVIN BUSLER (800) 633-3378	CHIEF BUILDINGS ATTN: ERIN SULLIVAN (308) 385-8228 (308) 390-8199
<b>EXTERIOR FINISHES</b>		COOL EGYPTIAN WHITE PATRIOTIAN BRONZE KYMAR 500	COOL COTTON WHITE GALVALUME	MEDIUM BRONZE KYMAR 500 BRONZE POLAR WHITE GALVALUME	SANDSTONE BURNISHED SLATE BRONZE POLAR WHITE GALVALUME	ANTIQUE BRONZE BRONZE POLAR WHITE GALVALUME
EXTERIOR FINISHES ARE TO MATCH OR BE EQUAL TO VP METAL BUILDING SYSTEMS FINISH SELECTION.						
GUTTERS						
DOWN SPOUTS						
SIDE AND REAR METAL WALL PANELS & TRIM, RECEIVING & EMERGENCY EXIT DOORS						
BRICK VENEER						
LEE BRICK 206 SEVILLE						
FLAT METAL SOFFIT AT STOREFRONT VESTIBULE AREA						
BUILDING PARAPET WALL AND CANOPY						
STOREFRONT SYSTEM						
STANDING SEAM METAL ROOF PANELS						
LINER PANELS (INTERIOR SALES FLOOR)						



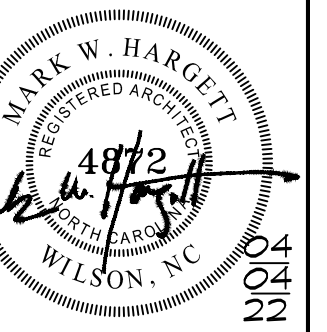
DRINK FIXTURE SUPPORT DETAIL

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



FIXTURE LAYOUT (CONFIRM W/ DOLLAR GENERAL PLANS) DGP

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



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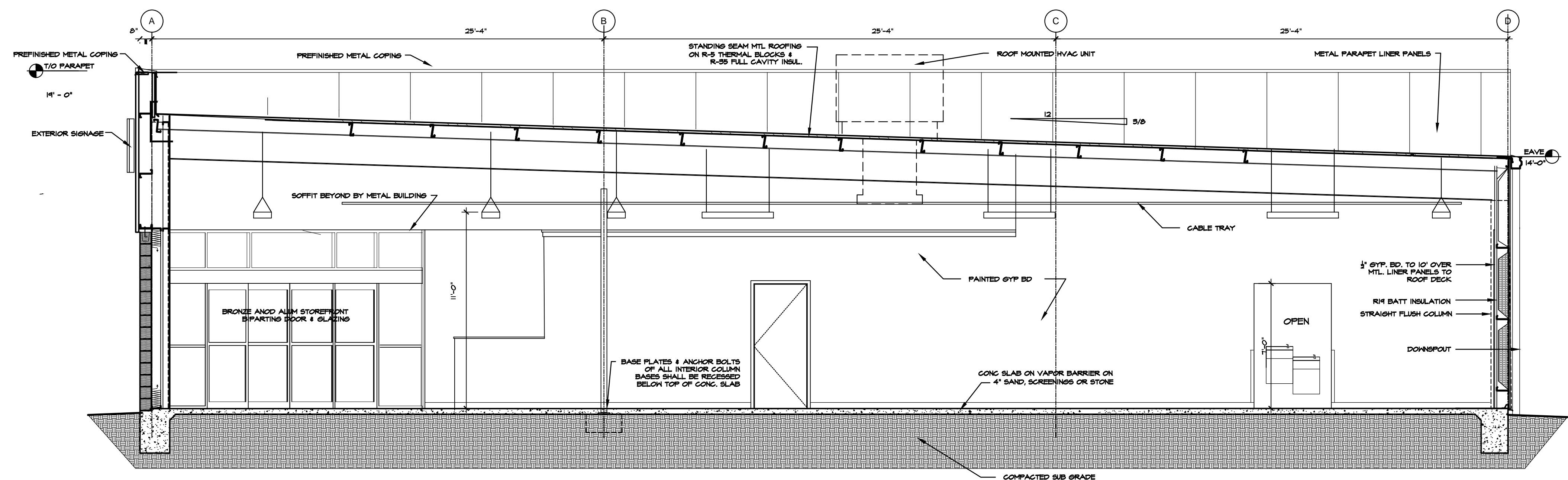
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 042822-BRICK VENEER

SHEET NUMBER

**A-2**

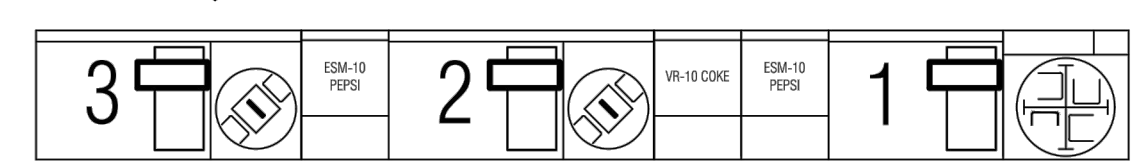
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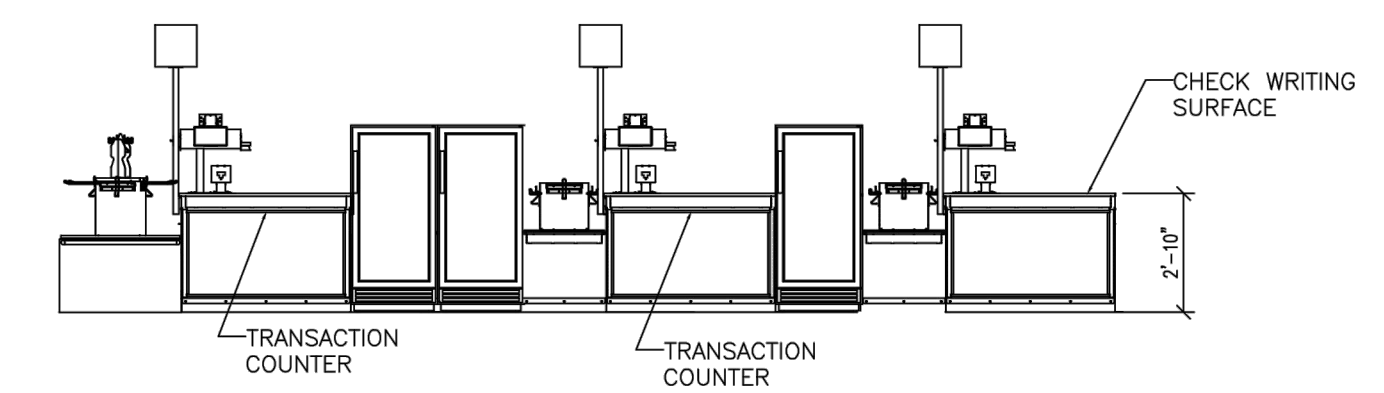
301 BUILDING SECTION

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

NOTE: FRONT CHECKOUT COUNTER TO BE PROVIDED BY DOLLAR GENERAL AND INSTALLED AT DOLLAR GENERAL'S DIRECTION. COUNTERS SHALL INCLUDE A PORTION OF AT LEAST 36" IN LENGTH WHICH IS NO MORE THAN 34" ABOVE THE FINISH FLOOR. COUNTERS SHALL BE ON AN ACCESSIBLE ROUTE.



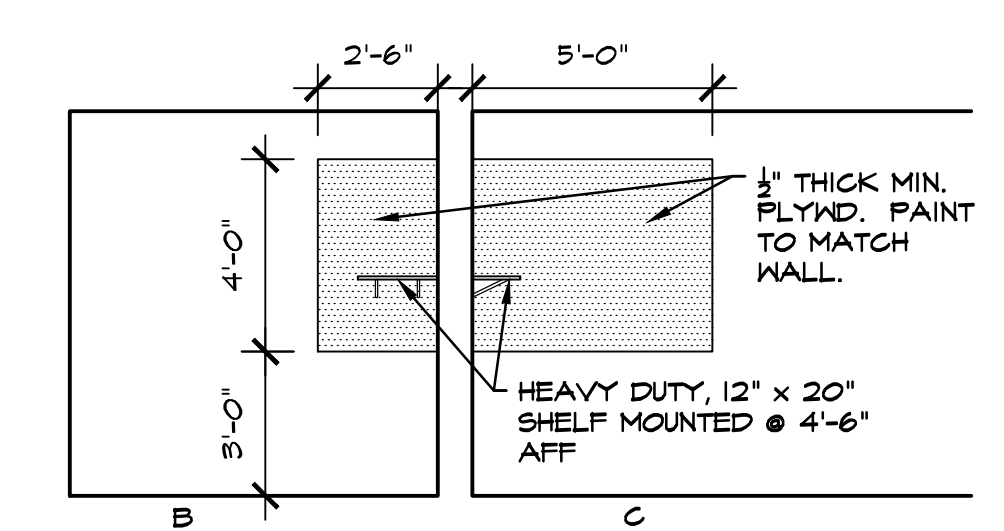
A - SERVICE COUNTER PLAN



B - ELEVATION

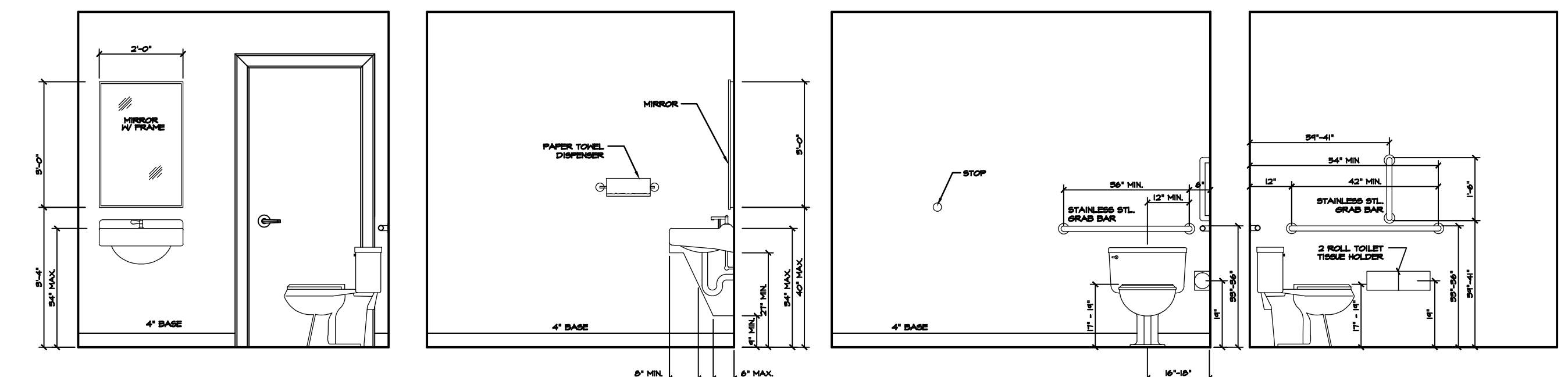
SERVICE COUNTER DETAILS

NOT TO SCALE



OFFICE WALL EQUIPMENT PANELS

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



RESTROOM ELEVATIONS

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

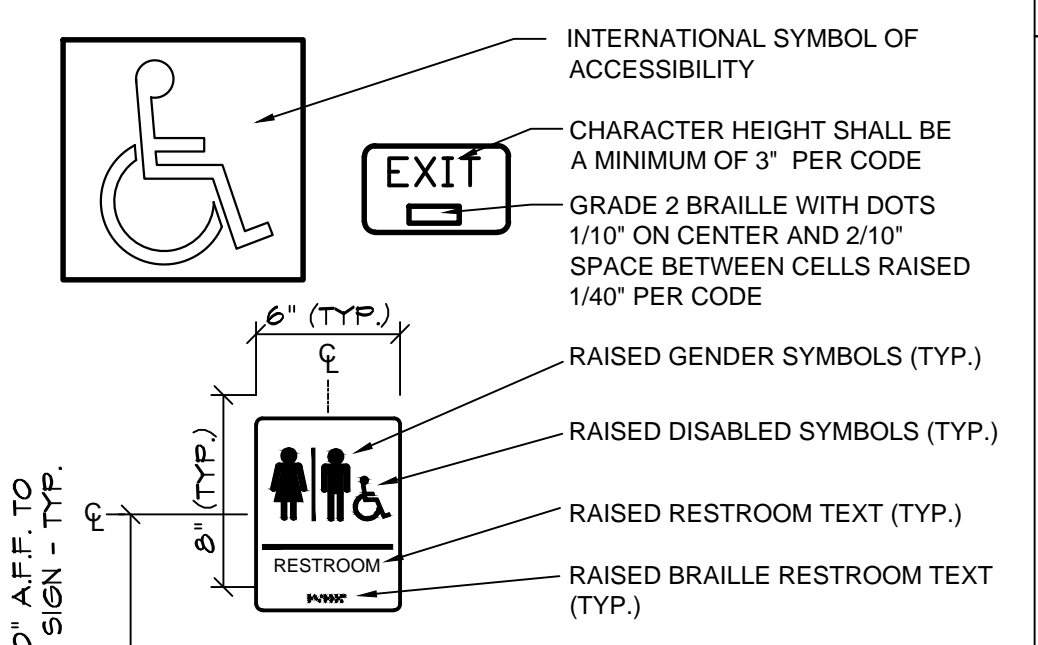


WOOD BLOCKING AS REQUIRED

GRAB BAR SUPPORT BAR FASTENER & MOUNTING SUPPORT SHALL BE ABLE TO WITHSTAND 250#/FT. IN BENDING, SHEAR & TENSION. SEE ELEVATIONS FOR MOUNTING HEIGHTS

GRAB BAR DETAIL

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



NOTES:  
 1. SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE STRINGENT.  
 2. ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.  
 3. G.C. TO PROVIDE TACTILE 'EXIT' SIGNS AT ALL GRADE LEVEL EXIT DOORS

ACCESSIBLE SIGNAGE

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

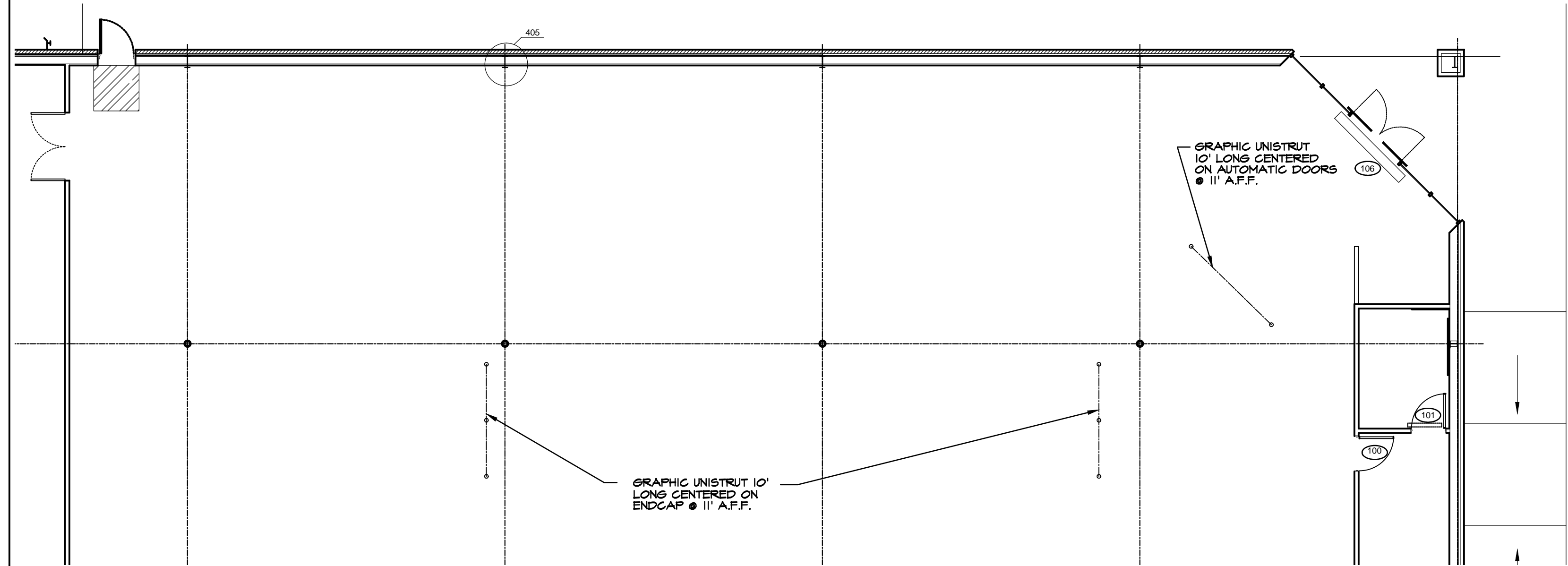
TOILET ROOM ACCESSORIES		DOOR HARDWARE	
B2740	BOBRICK DOUBLE TOILET TISSUE DISPENSER	54-US32D	BURNS PUSH PLATE
B253	BOBRICK PAPER TOWEL DISPENSER	5410-32D-26D-GRIP	BURNS PULL PLATE
A-24x36	GAMCO 24" x 36" ANGLE FRAME MIRROR	B2DDH-2250 **	DETEX DOUBLE DOOR
150Sx36	GAMCO 1 1/2" X 36" GRAB BAR	DS1000/MB	DOOR SCOPE (FORE RECEIVING EXIT DOOR)
150Sx42	GAMCO 1 1/2" X 42" GRAB BAR	608Z	8" DOOR HOLDER
150Sx18	GAMCO 1 1/2" X 18" GRAB BAR	770SAV-3FT	3 FT DOOR SWEEP
MS-1	GAMCO MOP HOLDER	770SAV-4FT	4 FT DOOR SWEEP
		W101S-DANE-626	FALCON PASSAGE LOCK SET
		W581PD-DANE-626	FALCON STOREROOM LOCKSET
		5400	HAGER DOOR CLOSER
		701SSC8-26D*	ILCO RIM CYLINDER
		402-1/2B-26D	3IVES WALL STOP
		425B26D-4	IVES 4" DOOR HOLDER
		8400-S32D-8X34	FALCON PASSAGE LOCK SET
		425 HD - 6FT	NATIONAL GUARD HD THRESHOLD (FOR RECEIVING EXIT DOOR)
		TA3310PC	TACO DOOR VIEWER
		2670-28	VON DUPRIN GUARD-X EXIT ALARM LOCK
		2609 **	VON DUPRIN GUARD-XDOUBLE DOOR STRIKE
		892SAV-84INCH	WEATHERSTRIPPING

TOILET ROOM NOTES:

- ALL TOILET ROOM ACCESSORIES PROVIDED BY BASS SECURITY. REFER TO T01 FOR VENDOR CONTACT.
- ALL STORES MUST INCLUDE 2 REST ROOMS, EVEN WHEN NOT REQUIRED BY CODE. ANY VARIATION MUST BE APPROVED, IN WRITING, BY THE DOLLAR GENERAL CONSTRUCTION DEPARTMENT.
- RESTROOMS MUST COMPLY WITH ALL BUILDING (FEDERAL, STATE, AND LOCAL) FIRE, AND HEALTH DEPARTMENT CODES. ADA REQUIREMENTS MUST ALSO BE MET IN BOTH RESTROOMS. SOME CODES MAY REQUIRE ADDITIONAL TOILETS OR LAVATORIES. PLEASE CONTACT DOLLAR GENERAL CONSTRUCTION DEPARTMENT FOR ALTERNATE PLANS FOR THESE SITUATIONS.
- PROVIDE AND INSTALL 2'x3' MIRROR (OR LARGER IF REQUIRED BY CODE).
- CONTRACTOR TO INSTALL SOAP DISPENSERS, TOILET PAPER HOLDERS, DOOR CLOSER, EXHAUST FANS, AND ALL BASS SECURITY PARTS IN BOTH RESTROOMS. PROVIDE SOLID BLOCKING IN WALL FOR SUPPORT.

DOOR HARDWARE NOTES:

- ALL DOOR HARDWARE PROVIDED BY BASS SECURITY. REFER TO T01 FOR VENDOR CONTACT.



UNI-STRUT LAYOUT FOR SIGNAGE

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



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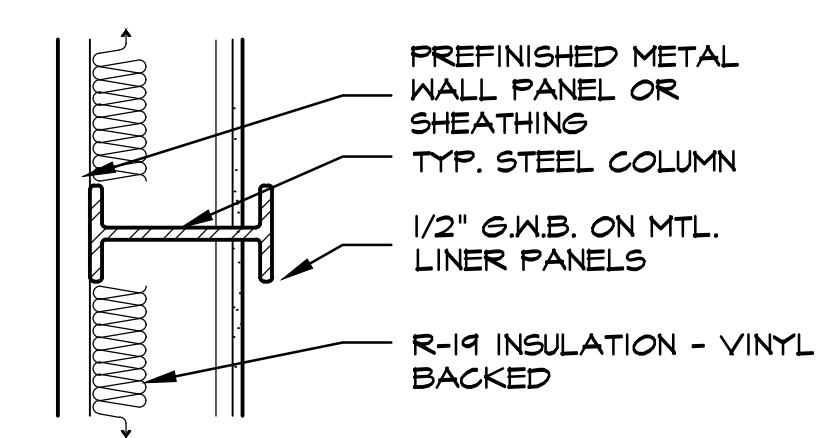
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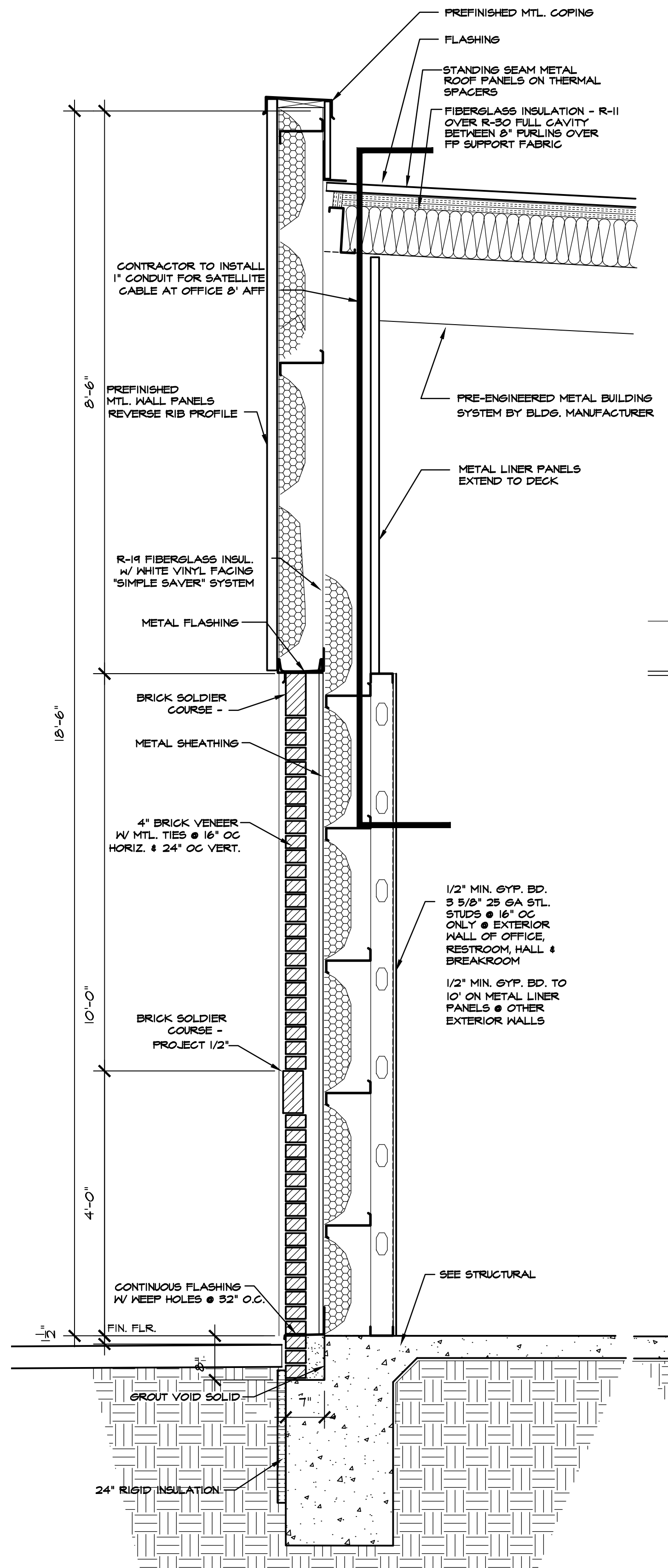
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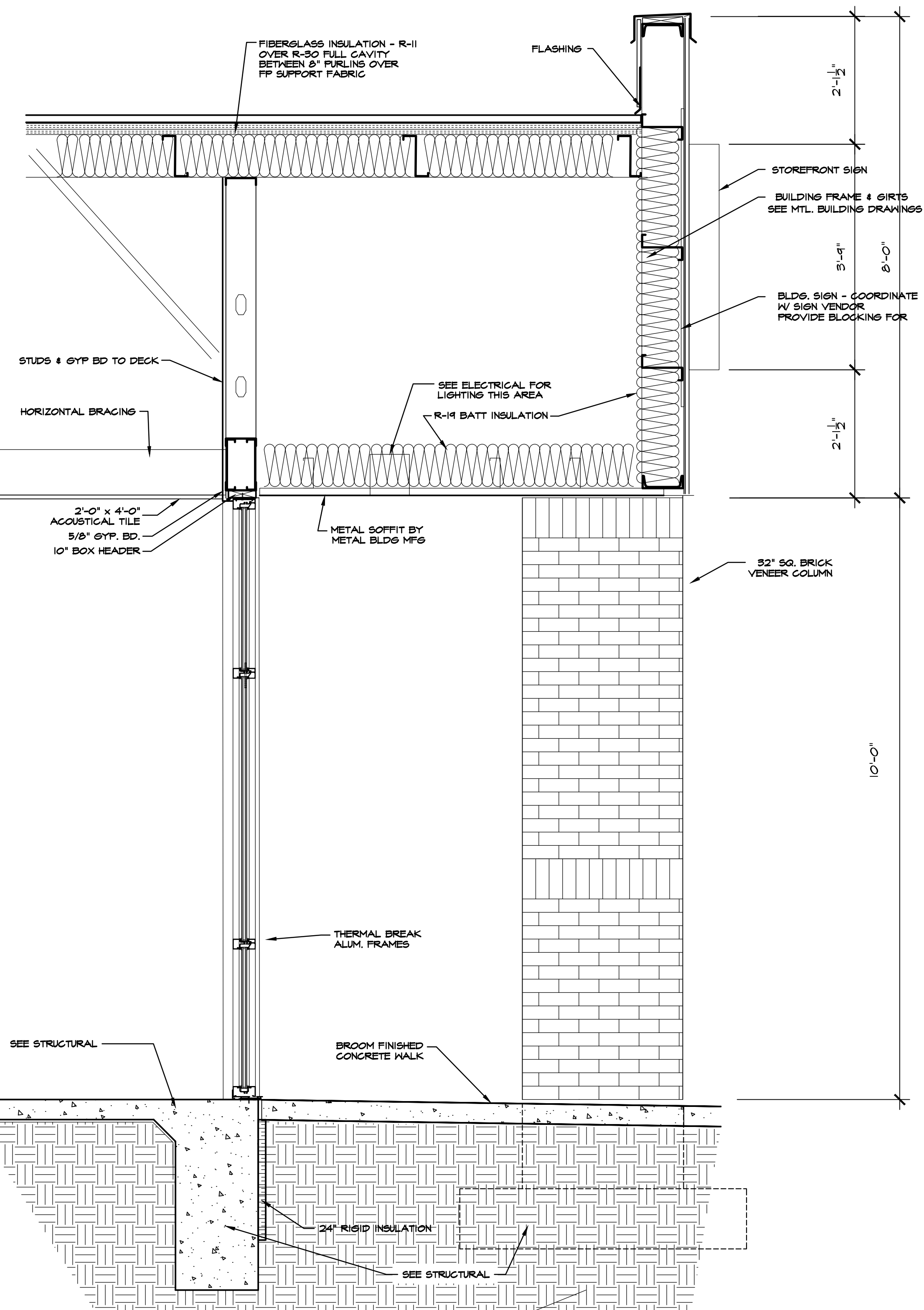
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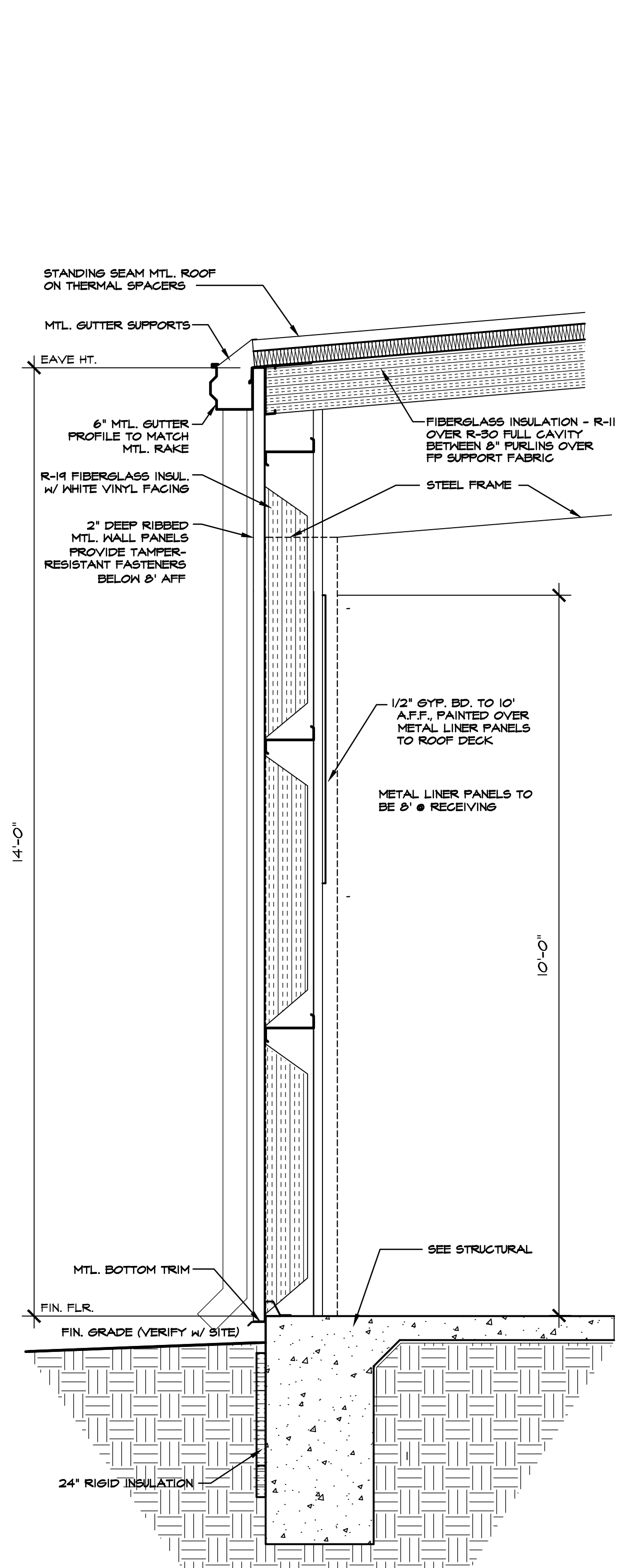
**405 DETAIL @ COLUMN**  
 SCALE: 1" = 1'-0"



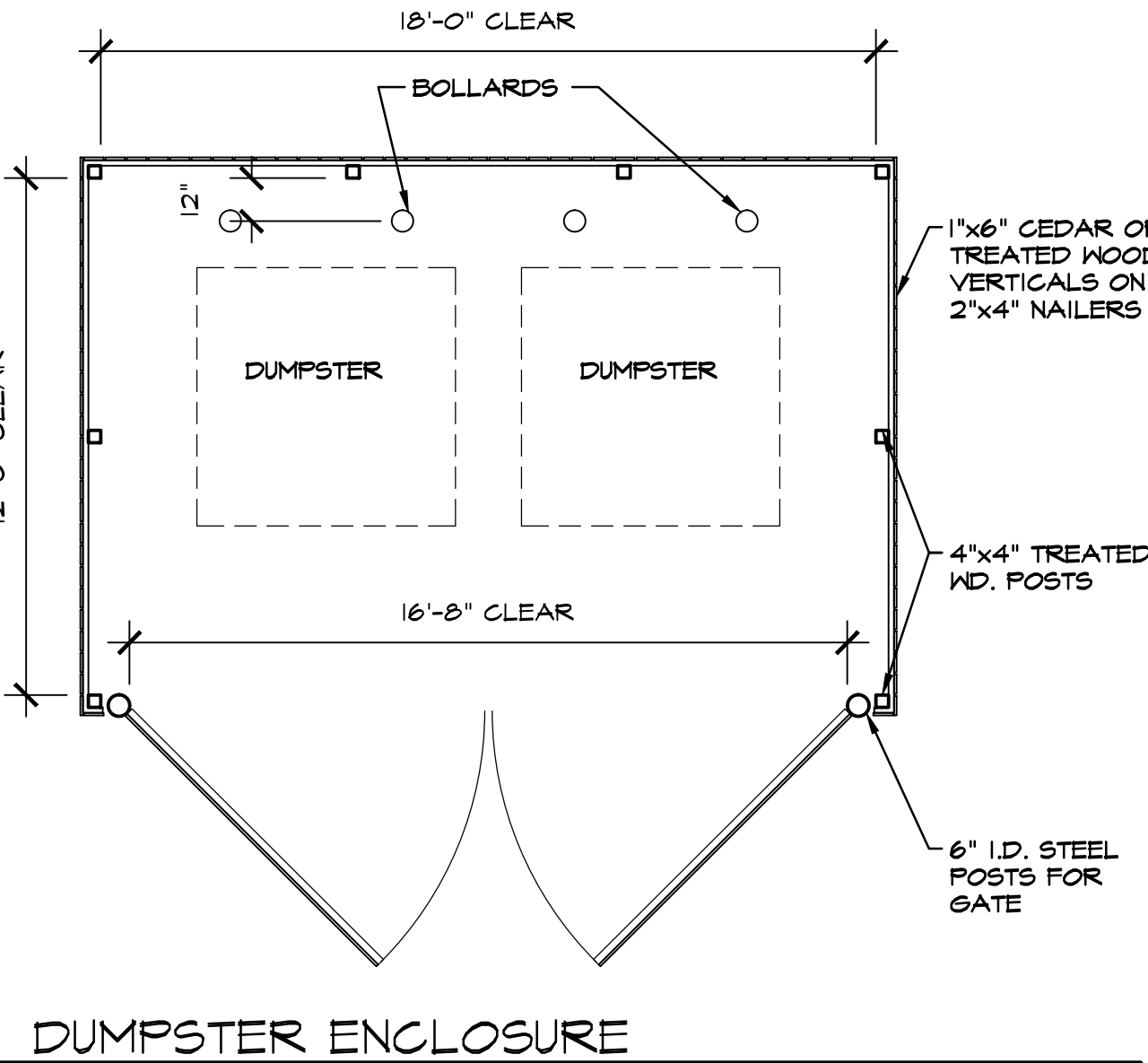
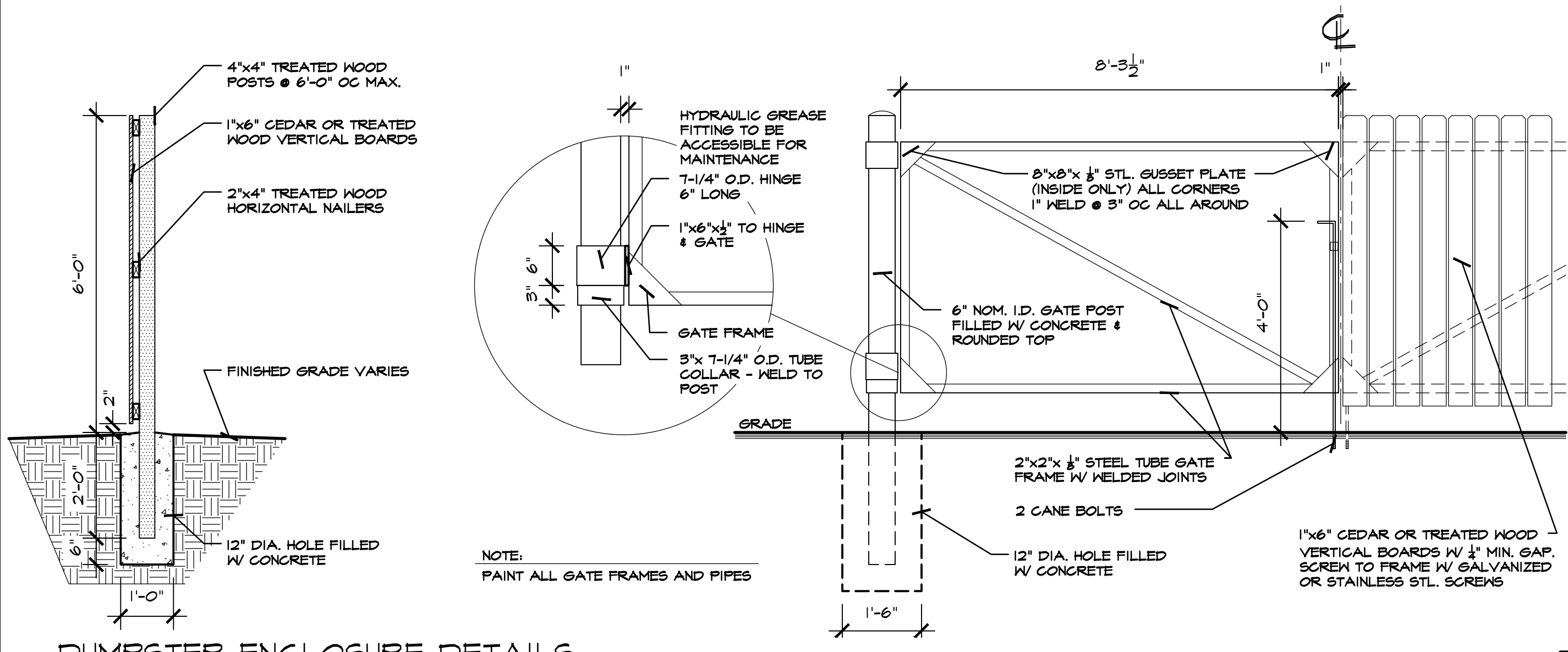
**401 WALL SECTION @ FRONT WALL**  
 SCALE: 3/4" = 1'-0"



**402 WALL SECTION @ ENTRY**  
 SCALE: 3/4" = 1'-0"



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



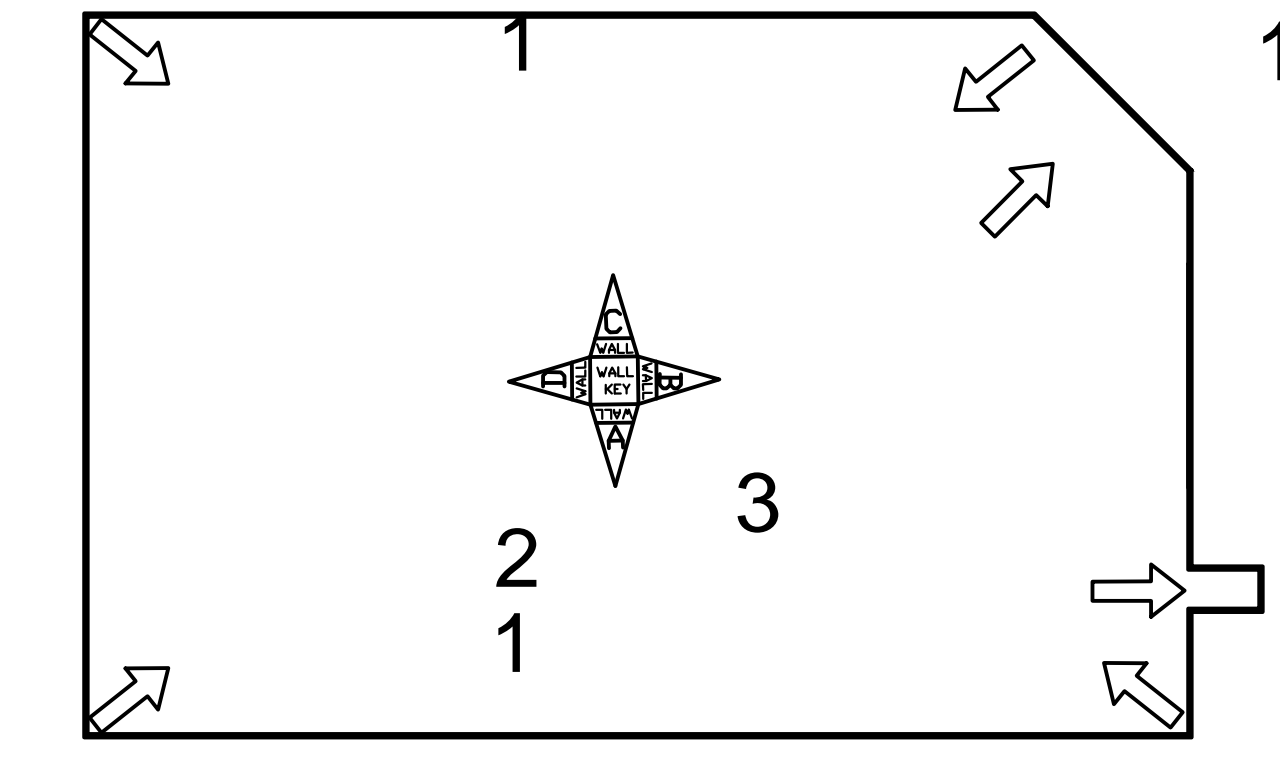
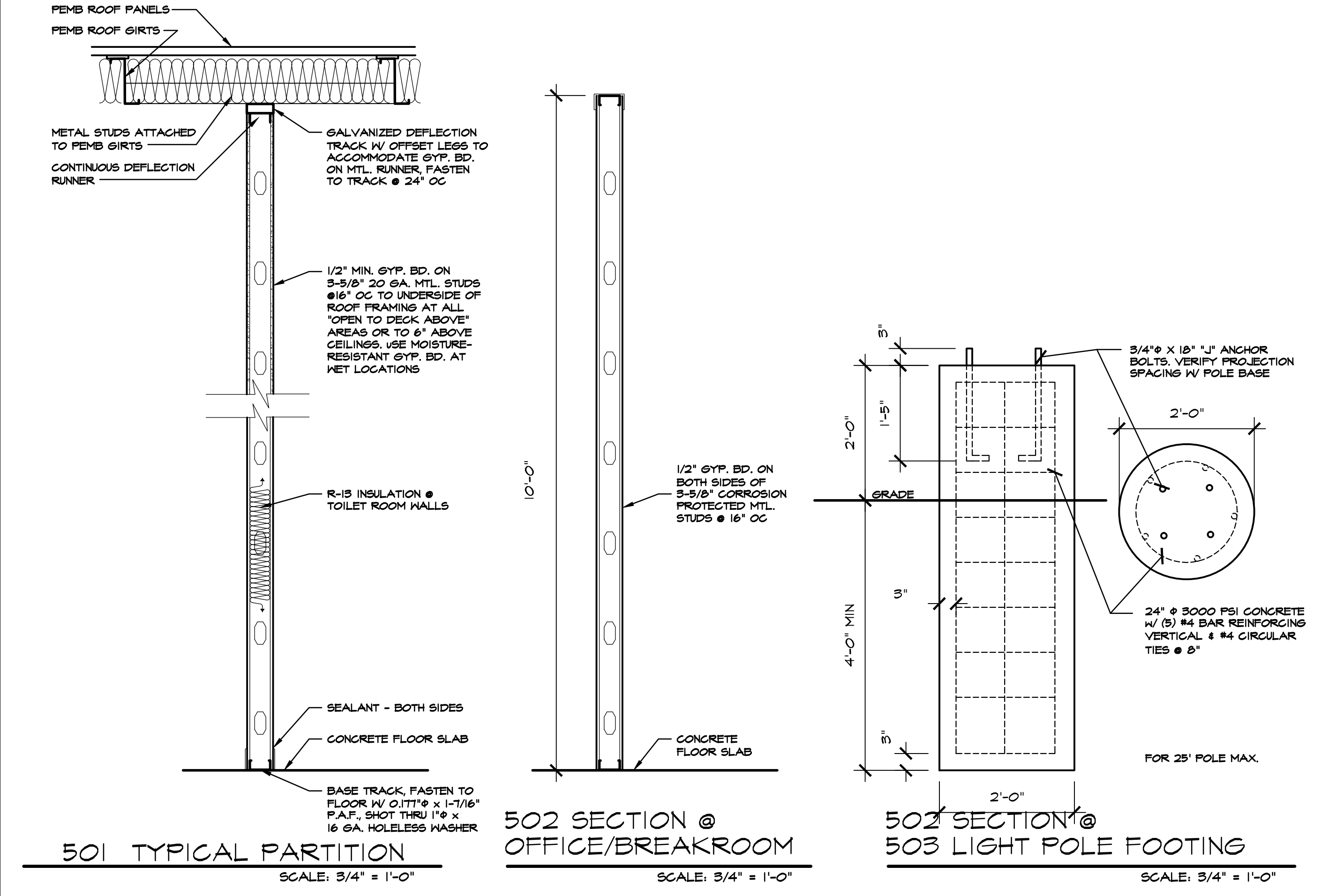
**REQUIRED NATIONAL ACCOUNT VENDORS:**

COMPANY	CONTACTS	PHONE #	REQUIRED ITEMS
RAINBIRD IRRIGATION	LOCAL RAINBIRD DISTRIBUTOR	www.rainbird.com	IRRIGATION SYSTEMS
EUCRID CHEMICAL COMPANY	PHIL BRANDT	877-456-3626 800-641-6746 pbrandt@eucridchemical.com	CONCRETE POLISHING SYSTEMS
RETROPLATE SYSTEMS	SCOTT MAXFIELD	800-828-2880 smaxfield@retroplate.com	CONCRETE POLISHING SYSTEMS
ASSA ABLBY ENTRANCE SYSTEMS	ROSS MERKEL	604-528-2880 dollargeneralbesam@assaabloy.com	AUTOMATIC DOORS AND STORE FRONT GLAZING SYSTEM
COOK & BOARDMAN GROUP	JOE HARRELL	336-857-0675 national@cookandboardman.com	INTERIOR DOORS & FRAMES & RESTROOM ACCESSORIES
SHERIN WILLIAMS	LOCAL SHERIN WILLIAMS STORE		PAINT, PRIMER, CONCRETE SEALER AND BLOCK FILLER
MC GUE CORPORATION	KEVIN ONEAL	618-442-4026 koneal@mcgucorp.com	TRIM KIT, BUMPER GUARDS, CART STOP
LENEX	SCOTT MACDONALD	972-447-6181 dollargeneral@lenex.com	HVAC UNITS
ROOF CURB SYSTEMS	GLIFTON REASOR	800-663-3848 dollargeneral@roofcurb.com	RTU CURB
CURBS PLUS INC.	ALLAN THRAIKILL	888-694-2872 allan.thraikill@curbs-plus.com	RTU CURB
KCC INTERNATIONAL INC.	GREG CONRAD	800-382-2872 gconrad@kccurbs.com	RTU CURB
NESCO	CHRIS TRACY	800-244-6480 dollargeneral@needelectric.com	ELECTRICAL SWITCH GEAR
LEDS	MICHAEL STRINGER KYLE KNAPP	420-415-4010 dollargeneral@leds-llc.com	ELECTRICAL LIGHTING SUPPLIES
D&P CUSTOM LIGHTING	NATIONAL ACCOUNT SALES	800-251-2200	CUSTOM POWER POLES
ASD	CHRIS RUDNITSKI	828-624-1046 rudnitki@asd-usa.com	LOW VOLTAGE & VOICE/DATA
GRAYBAR	JEROME BANNISTER	615-745-3202 ext. 615-424-2155 cell dollargeneral@graybar.com	CABLE TRAY
EMERSON CLIMATE TECHNOLOGIES	http://dollargeneralbid.solutions.net	USER NAME: dollargeneralbid PASSWORD: dollargeneralbid	HVAC SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL HPS PANEL. REQUIRES STORE #, CITY, STATE, ZIP CODE & CITY OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING.
STANLEY CONVERGENT SECURITY SOLUTIONS	DAN GOLDSMITH	740-862-2051	INTERIOR FIRE ALARM PANELS

**REQUIRED NATIONAL ACCOUNTS FOR ENGINEERING & CONSTRUCTION MATERIAL TESTING**

COMPANY	CONTACTS	PHONE #	REQUIRED ITEMS
ATC ASSOCIATES, INC.	LESLIE GREENWOOD	208-759-8775 dollargeneral@atcassociates.com	www.atcassociates.com
BUILDING AND EARTH SCIENCES, INC.	MATT ADAMS	208-636-6500 dollargeneral@buildingandearth.com	www.buildingandearth.com
EAS PROFESSIONALS, INC.	JERRY MARRONE	891-234-7565 dollargeneral@eas-pro.com	www.eas-pro.com
PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)	TERESA HEINER	710-424-6200 #8050 teresa.heiner@psia.com	www.psi.com
TERRACON	JOHN MEADOW	710-625-0755 #555 dollargeneral@terracon.com	www.terracon.com

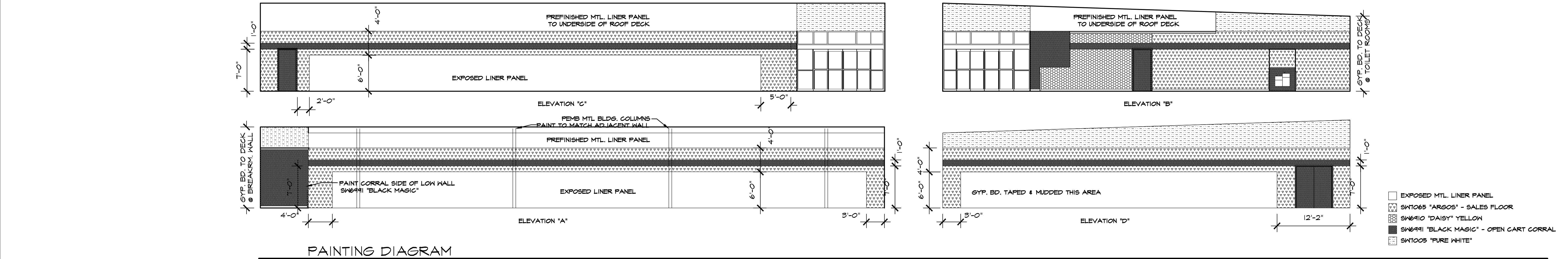
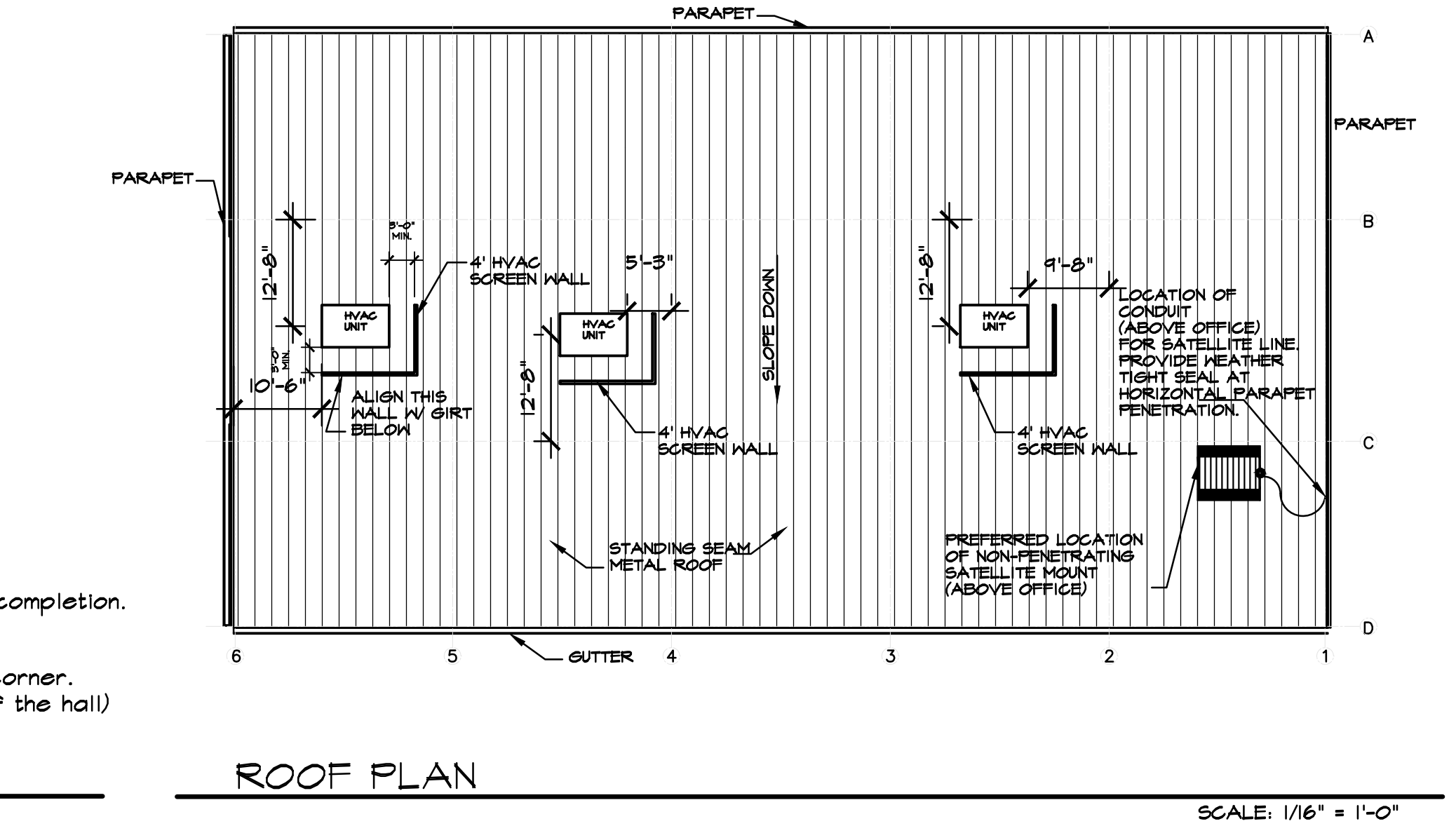
NATIONAL ACCOUNT & CONTACT INFORMATION SUBJECT TO CHANGE



**REQUIRED PHOTOS**

The following layout shows the required photos to be taken at completion. (make sure the overhead lights are on for your photos)

- From each corner of the stockroom, facing the opposite corner.
- Hall (in side entrance stores, one picture from each end of the hall)
- Standing 10' from the entrance facing the entrance.



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**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NORTH CAROLINA

JOB NUMBER  
 DRAWN BY: MAH  
 DATE: 04/04/22  
 REVISIONS

SHEET NUMBER  
**A-5**  
 OF



# FOUNDATION NOTES

- FOUNDATION DESIGN BASED ON ASSUMED SOIL BEARING PRESSURE OF 2000 PSF.
- MINIMUM COMPRESSIVE STRENGTH  $f'_c$  OF CONCRETE TO BE 4000 PSI.
- STEEL REINFORCEMENT BARS TO BE A615, GRADE 60. REINFORCEMENT BARS TO BE SUPPORTED BY CHAIRS OR SPACERS. CONCRETE BLOCK OR BRICKS SHALL NOT BE USED AS SPACERS. WELDED WIRE FABRIC (MESH) SHALL CONFORM TO ASTM A185 AND BE PROVIDED IN FLAT SHEETS (ROLLS NOT PERMITTED). SUPPORT WIRE FABRIC WITH CHAIRS OR LIFTS DURING CONCRETE PLACEMENT TO INSURE PROPER POSITION IN SLAB. CONCRETE BLOCK OR BRICKS SHALL NOT BE USED AS SPACERS. MINIMUM SHALL BE AS FOLLOWS:
  - A. SLABS.....3/4"
  - B. ALL CONCRETE CAST AGAINST EARTH.....3"
- ANCHOR RODS SHALL HAVE WITH HEAVY HEX NUTS AND WASHERS (SEE DETAIL). ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS OTHERWISE NOTED. SEE MANUFACTURER'S DRAWING FOR ANCHOR BOLT SIZE AND LOCATION.
- PERIMETER INSULATION, WHEN REQUIRED SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODES.
- A 6 MIL POLYETHYLENE VAPOR RETARDER SHALL BE INSTALLED BELOW SLAB.
- BOTTOM OF FOOTING SHALL BE 12" BELOW FINISHED GRADE MINIMUM.
- ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE NORTH CAROLINA BUILDING CODE, 2018 EDITION.
- CONTRACTOR SHALL PROVIDE ANCHOR ROD REACTIONS FOR REVIEW PRIOR TO CONSTRUCTION OF BUILDING FOUNDATION.

# STRUCTURAL DESIGN

## DESIGN LOADS

<b>Importance Factors:</b>	Wind	(1 <sub>w</sub> )	---
	Snow	(1 <sub>s</sub> )	---
	Seismic	(1 <sub>s</sub> )	---
<b>Live Loads:</b>	Roof	20	psf
	Mezzanine	100	psf
	Floor	100	psf
<b>Snow Loads:</b>		10	psf
<b>Wind Loads:</b>	Basic Wind Speed	115	mph ASCE-7)
	Exposure Category	C	

SEISMIC DESIGN CATEGORY:  A  B  C  D

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5)  I  II  III  IV

Seismic Use Group

Spectral Response Acceleration  $S_s$  20.0%g  $S_1$  7.3%g

Site Classification (ASCE 7)  A  B  C  D  E  F

Data Source:  Field Test  Presumptive  Historical Data

Basic structural system (check one)

- Bearing Wall  Dual w/Special Moment Steel
- Building Frame  Dual w/Intermediate R/C or Special Steel
- Moment Frame  Inverted Pendulum

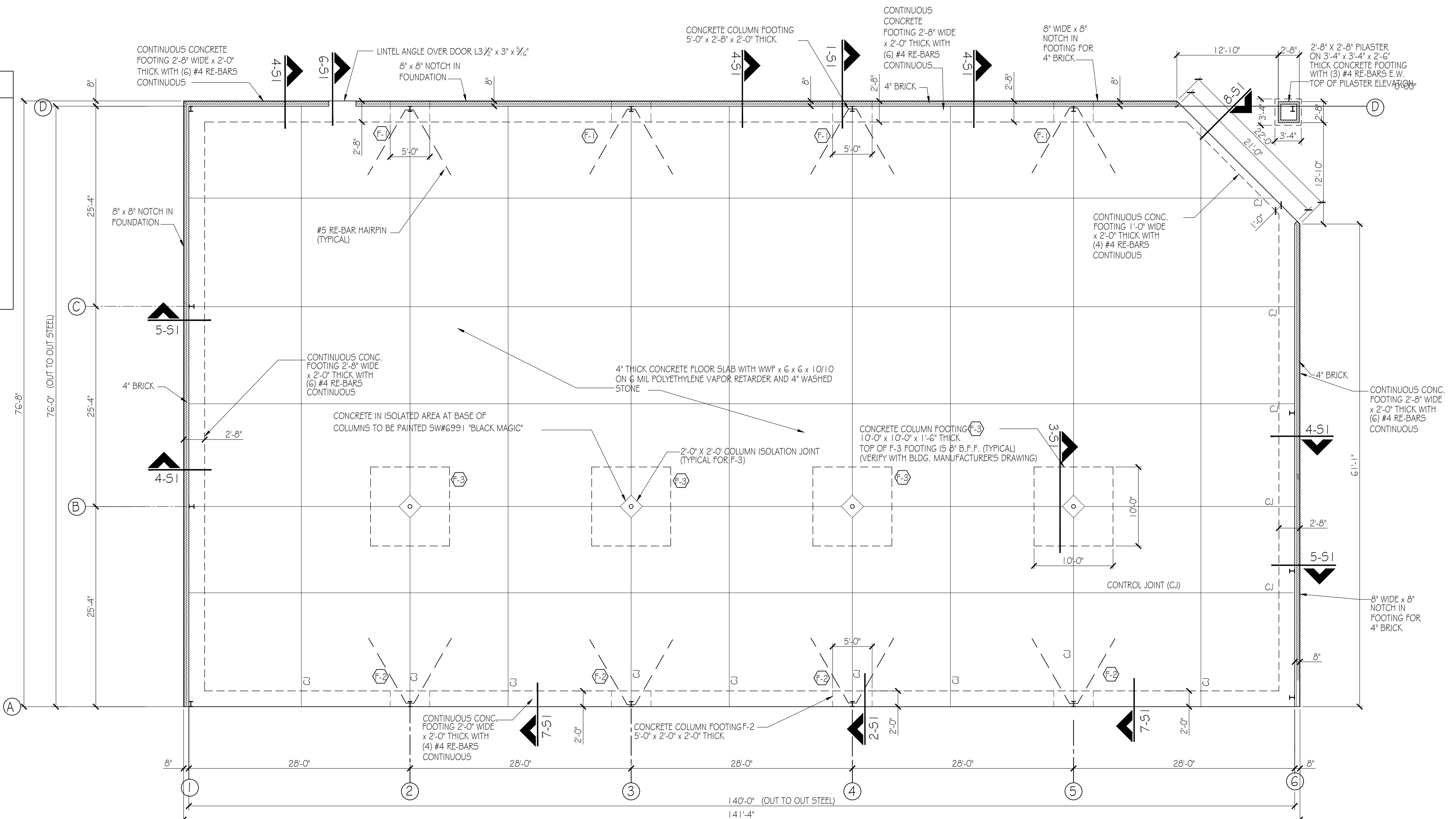
Analysis Procedure  Simplified  Equivalent Lateral Force  Dynamic

Architectural, Mechanical, Components anchored?  Yes  No

LATERAL DESIGN CONTROL:  Earthquake  Wind

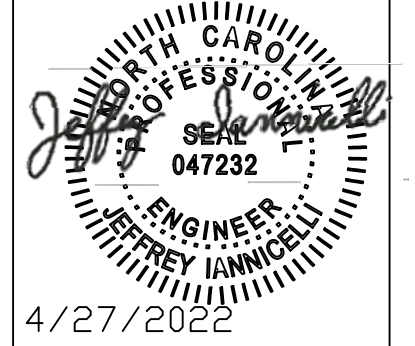
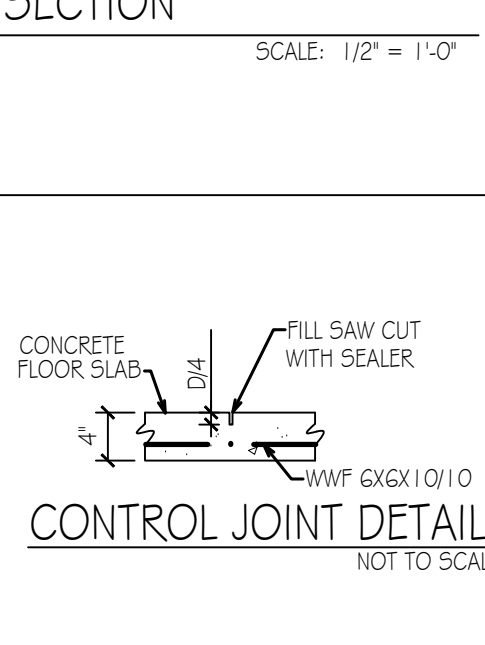
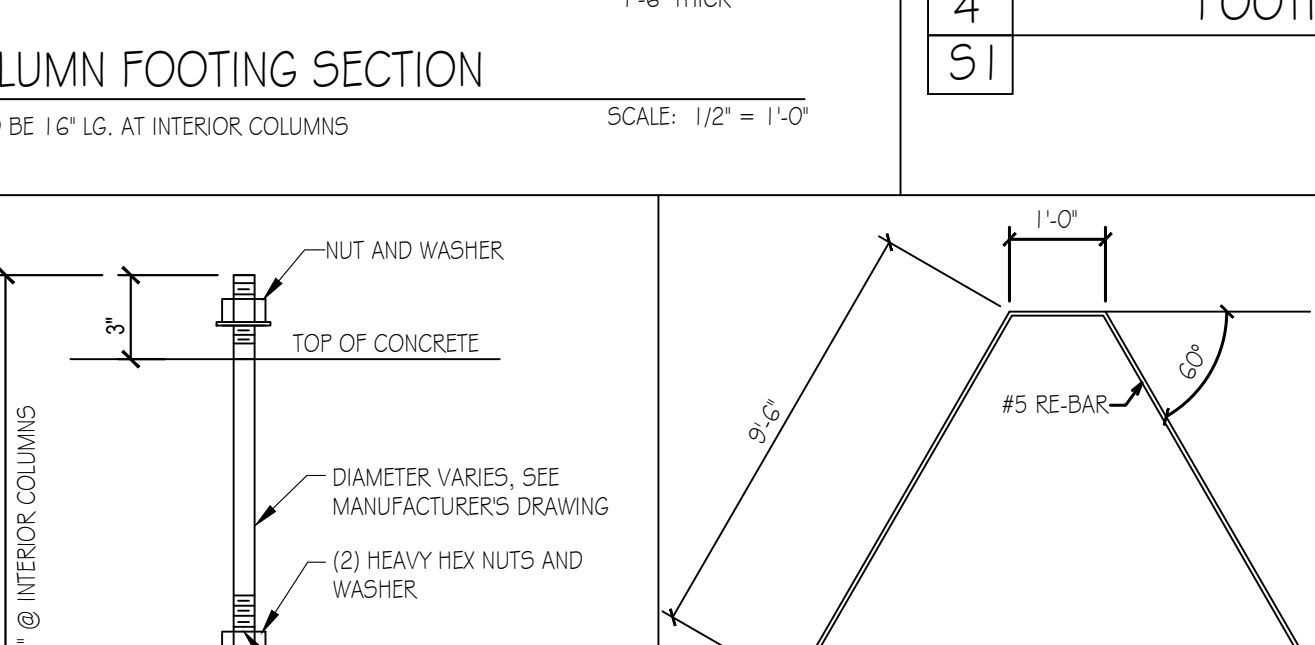
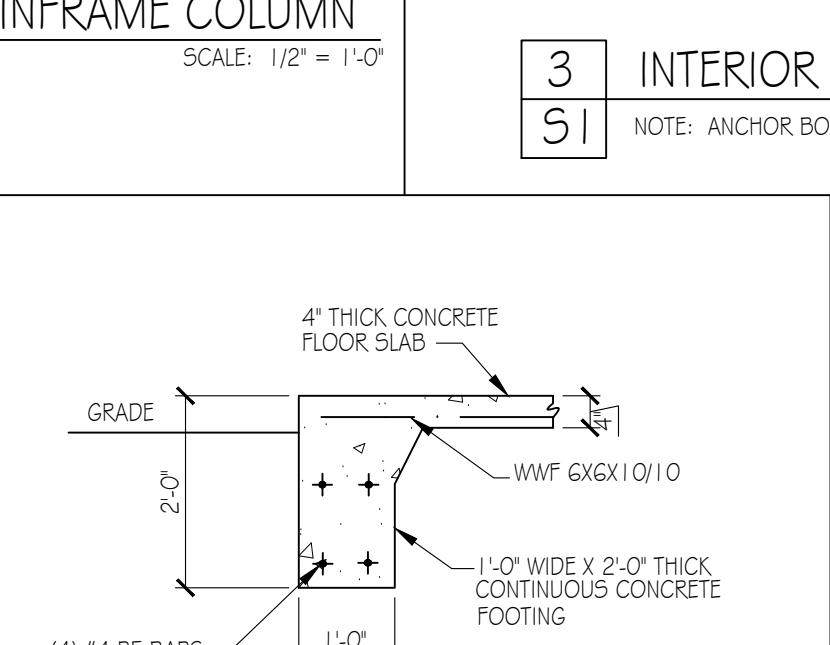
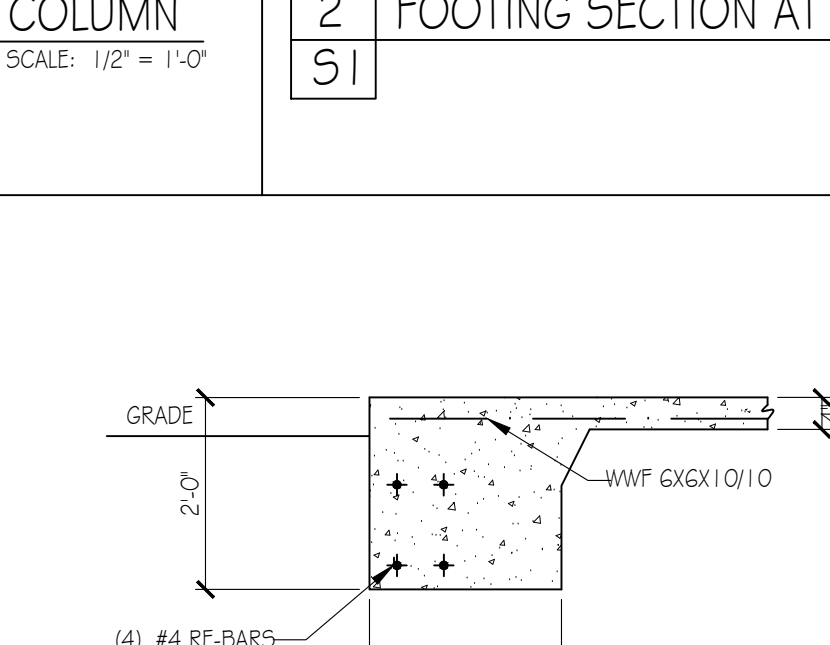
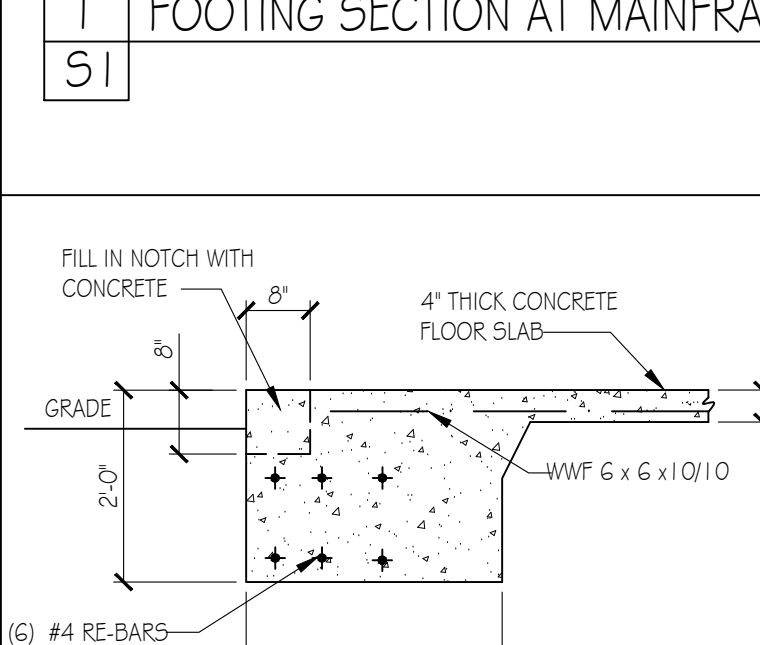
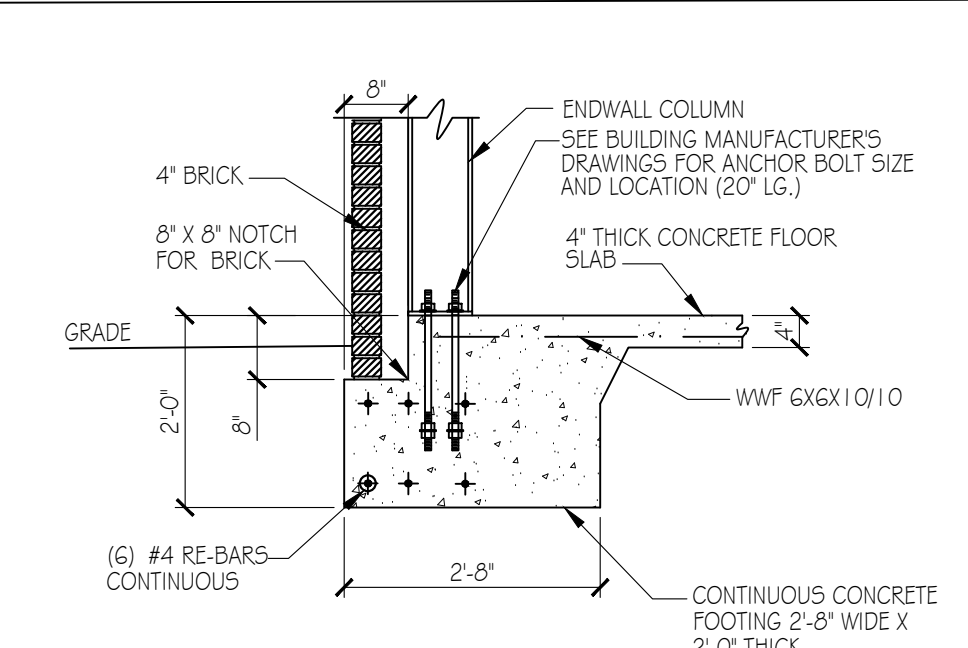
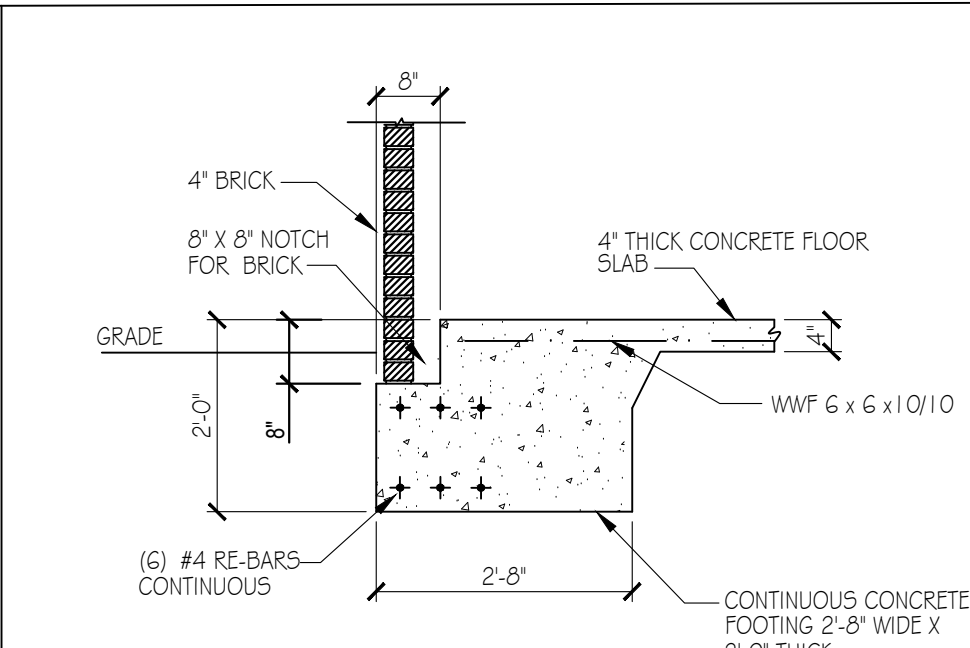
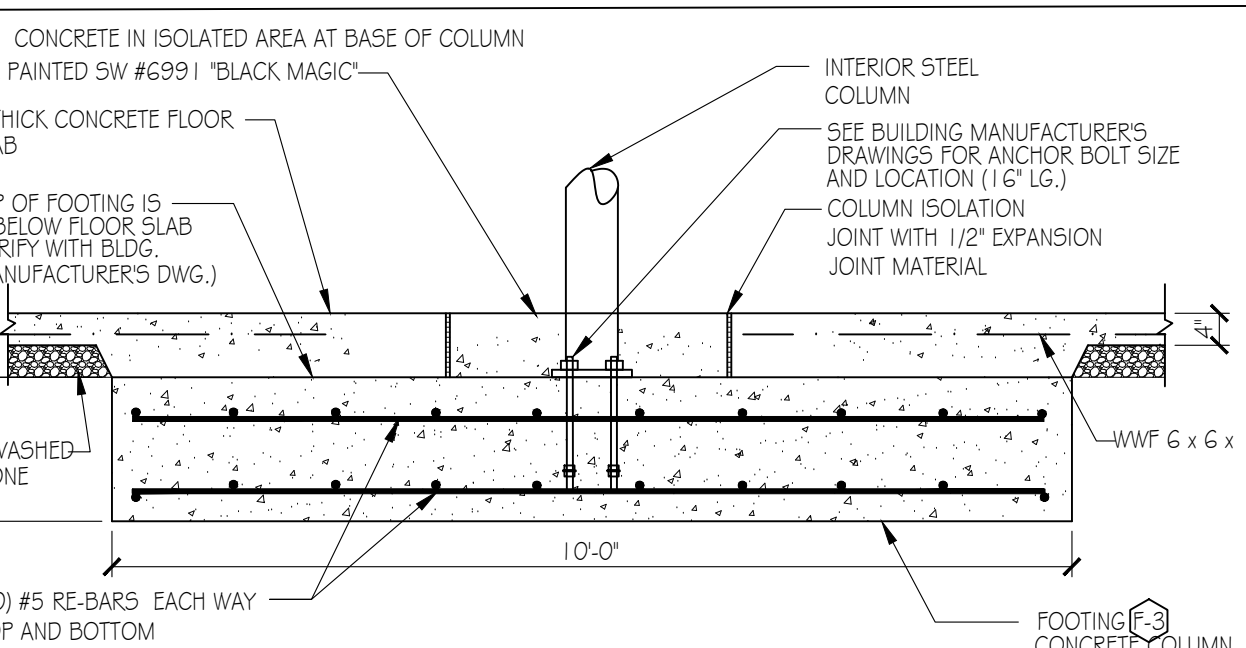
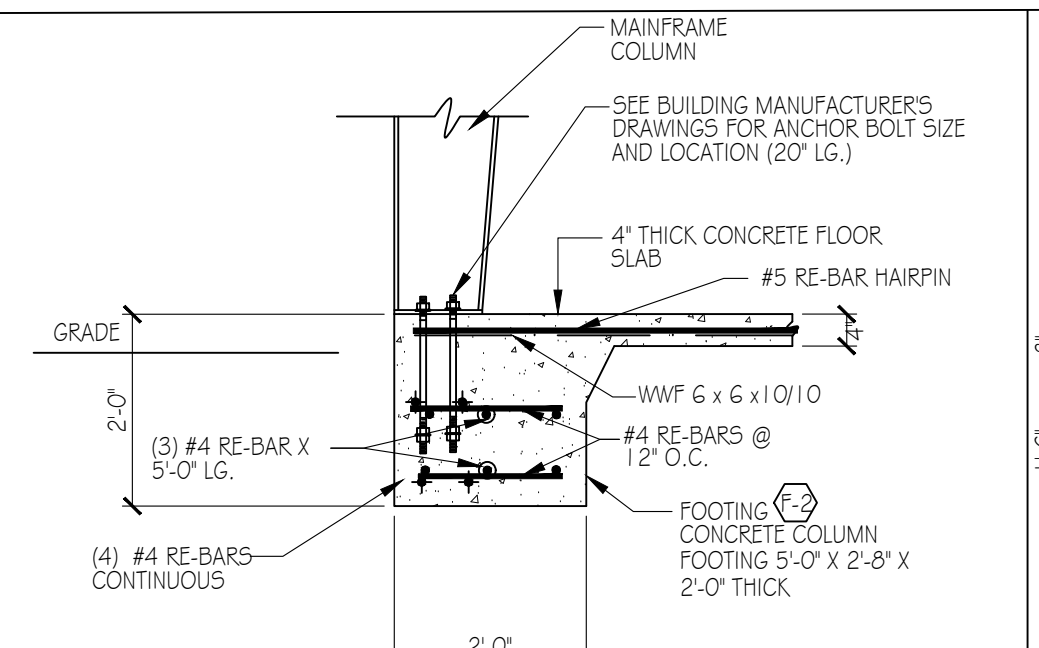
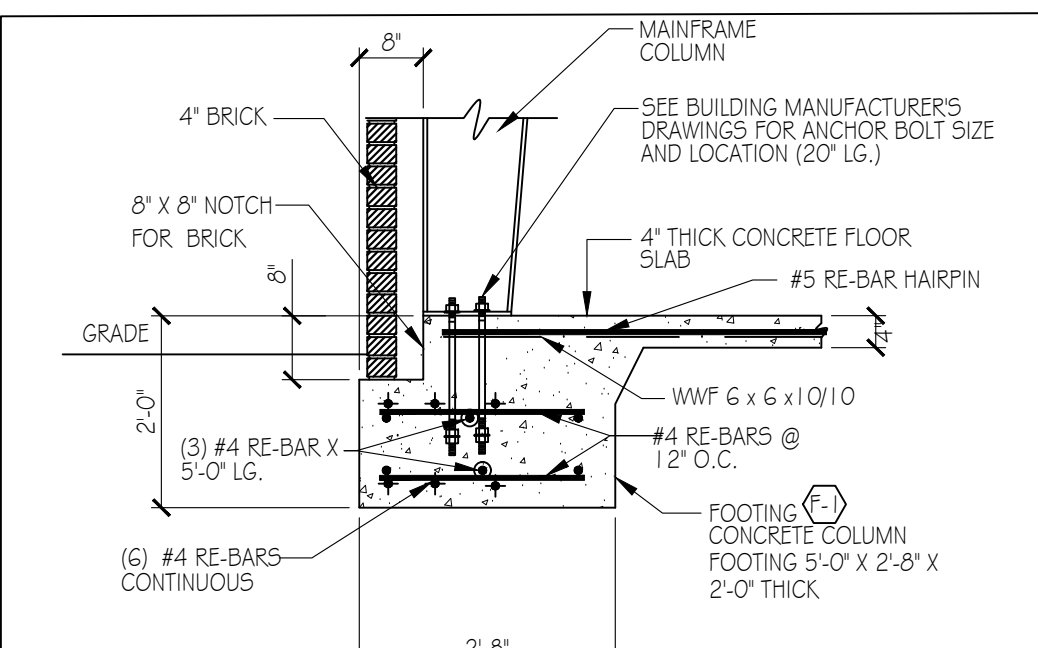
SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) \_\_\_\_\_ psf  
 Presumptive Bearing capacity 3000 psf  
 File size, type, and capacity \_\_\_\_\_



# FOUNDATION PLAN

NOTE: CONCRETE COLUMN LOCATIONS WITH BUILDING MANUFACTURER'S DRAWING. SCALE: 1/8" = 1'-0"



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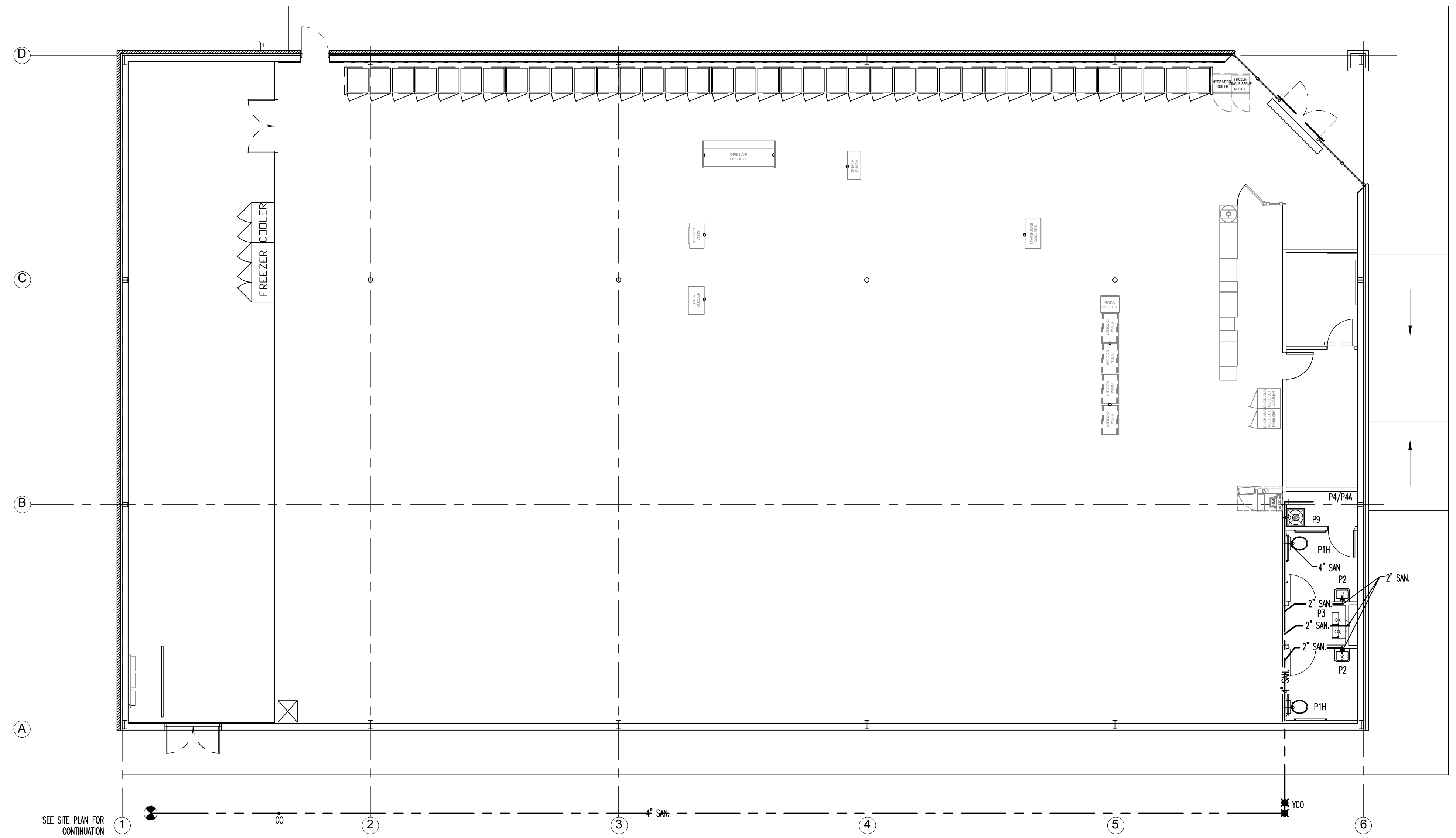
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 DATE APR. 14, 2022  
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**S-1**  
 OF ONE

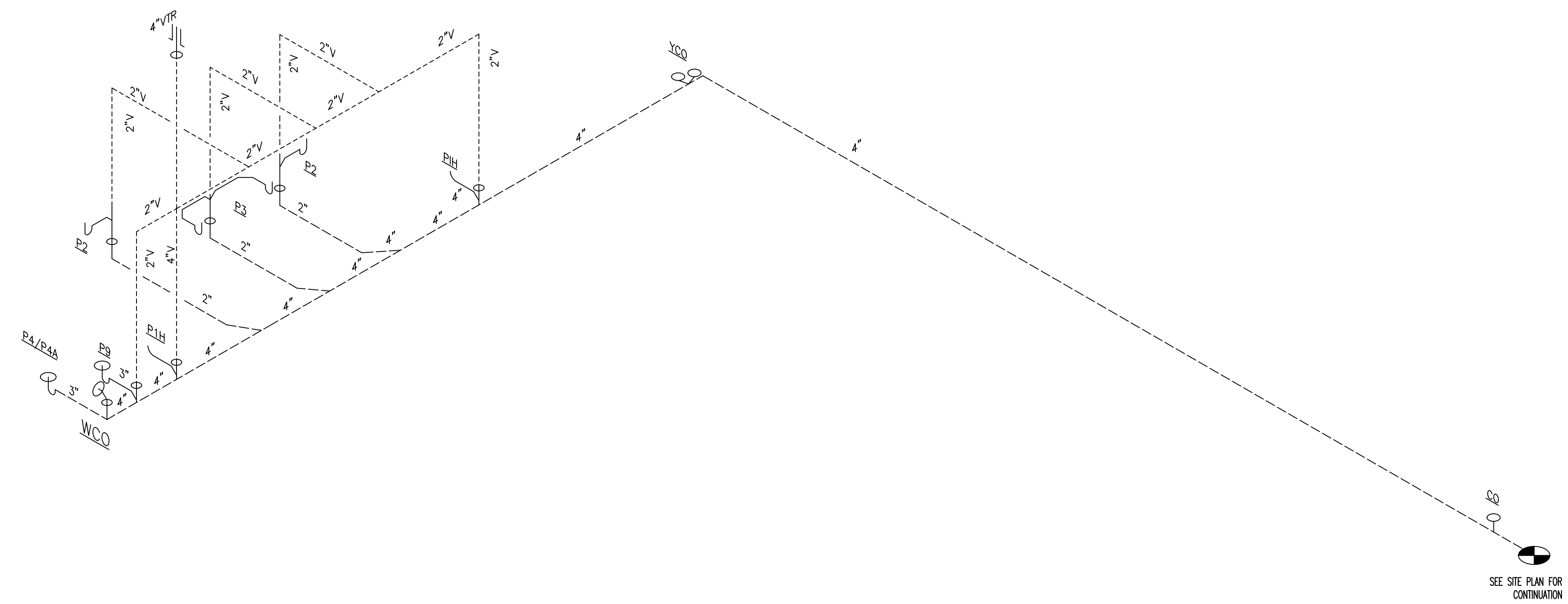






PLUMBING PLAN - SCALE: 1/8"=1' 1

- PLUMBING KEYED NOTES**
- ① WATER HEATER MOUNTED ABOVE MOP SINK. ROUTE DRAIN PAN DRAIN AND T&P RELIEF VALVE DRAIN FROM WATER HEATER DOWN WALL TO MOP SINK BASIN AND SPILL INTO.
  - ② ROUTE RTU CONDENSATE LINE TO SPILL INDIRECTLY TO MOP SINK. PITCH PIPE WITH ROOF SLOPE (TYP.).

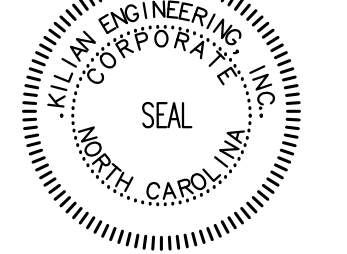
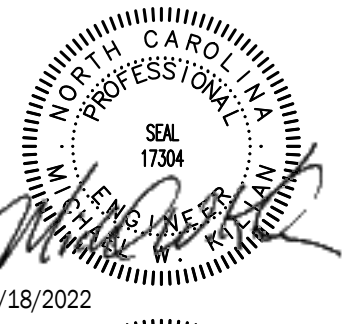


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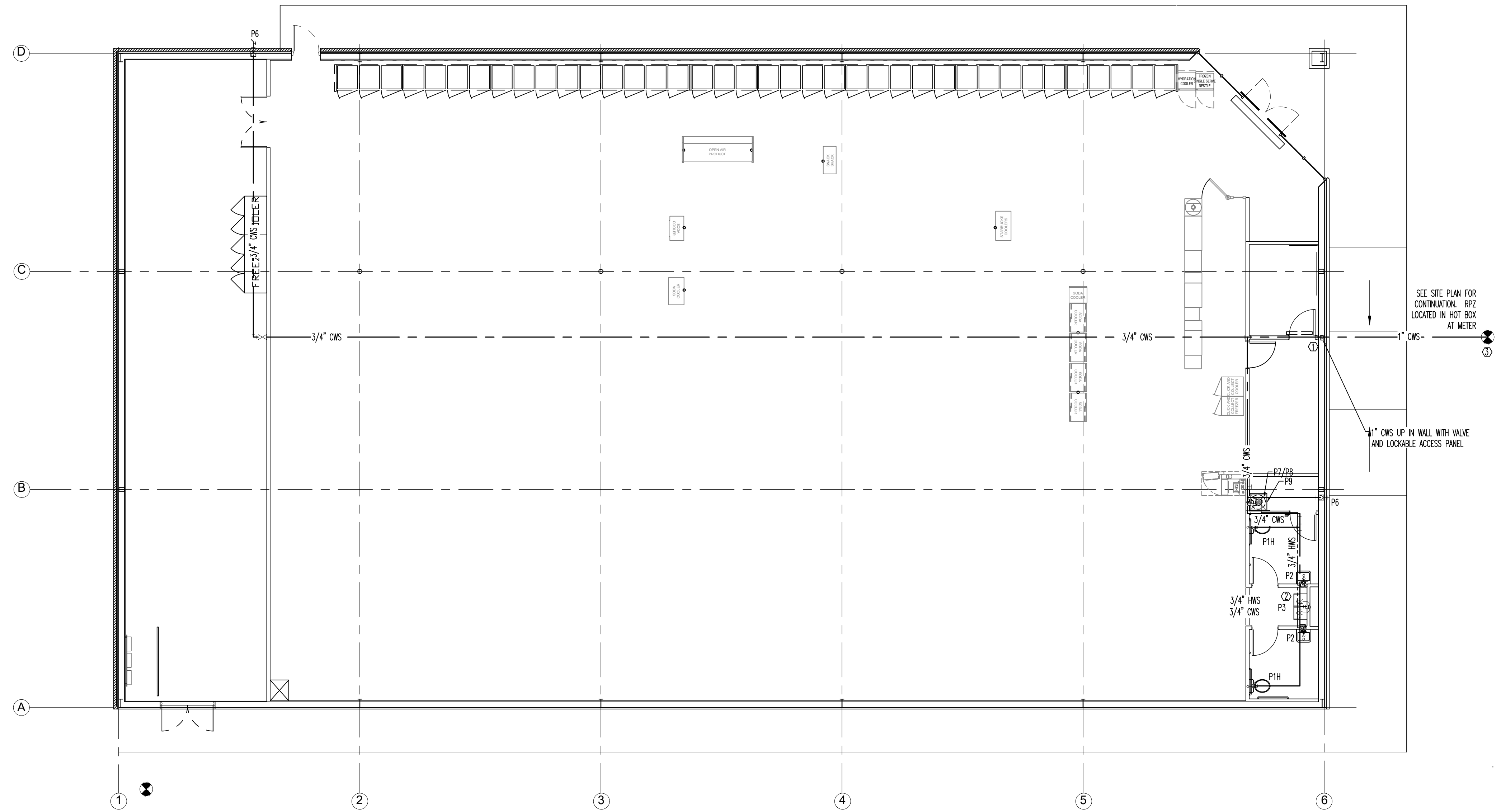
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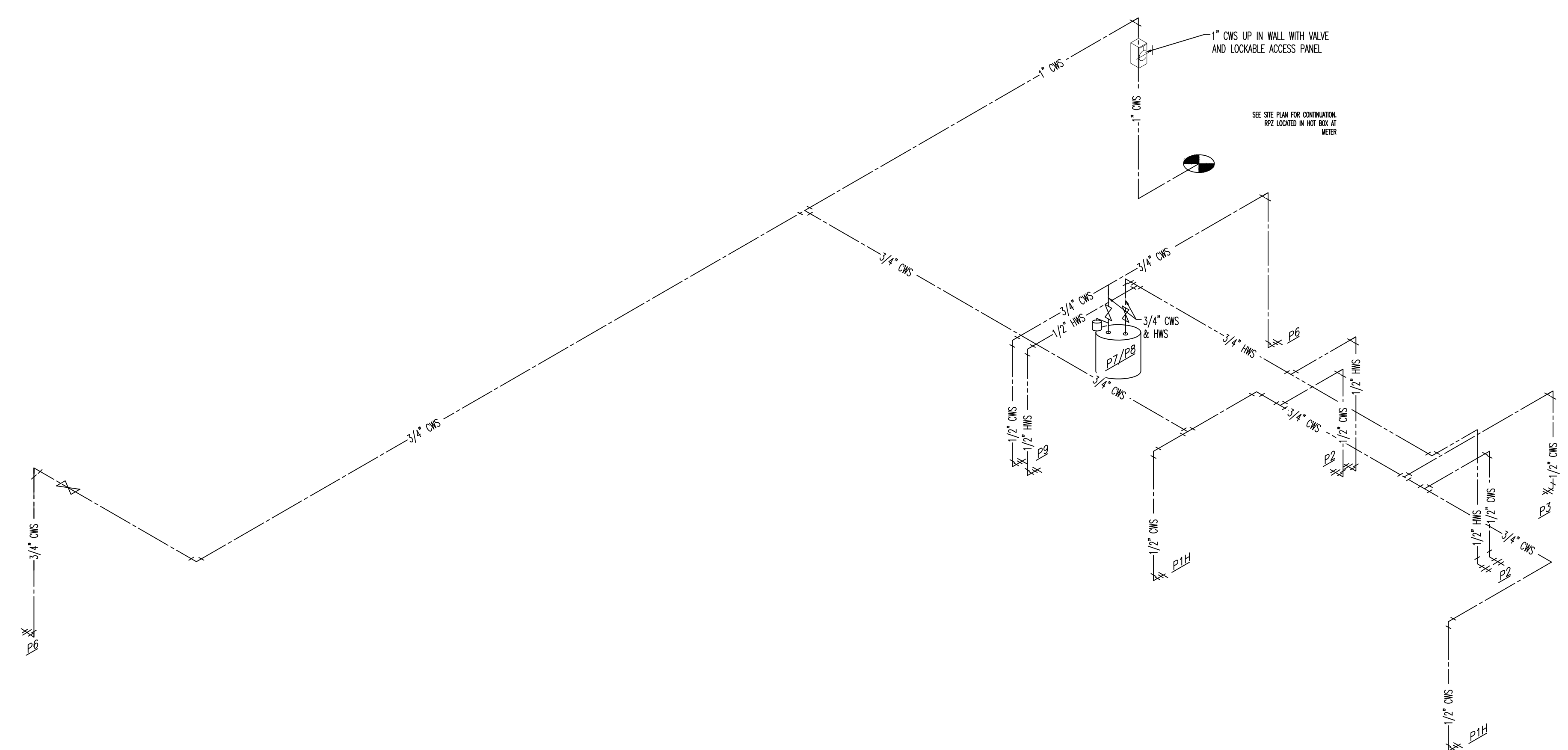
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 REW  
 DATE  
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**P1**



DOMESTIC WATER DELIVERY PLAN - SCALE: 1/8"=1' 1

- PLUMBING KEYED NOTES**
- ① 1" CW UP IN WALL WITH VALVE AND LOCKABLE ACCESS PANEL.
  - ② PLUMBING CONTRACTOR TO RUN WATER LINE IN SALES AREA AS HIGH AS POSSIBLE OVERHEAD.
  - ③ CONTRACTOR TO COORDINATE WATER METER SIZES WITH LOCAL WATER COMPANY AND CIVIL.

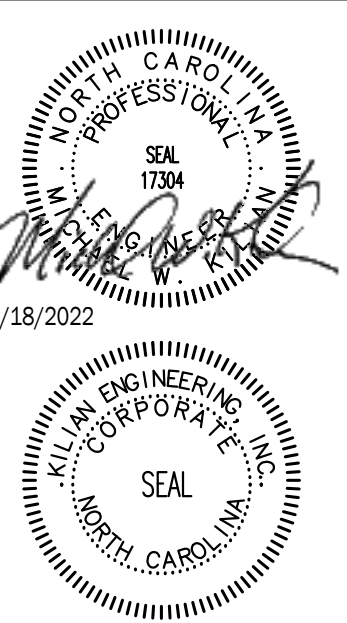


DOMESTIC WATER DELIVERY RISER - NO SCALE 2

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GENERAL MECHANICAL NOTES:

- ADMINISTRATIVE:
1. THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:
PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR,
MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
FASC - FIRE ALARM SYSTEM CONTRACTOR.
2. PROVIDE MEANS TO FURNISH AND INSTALL. MC SHALL ALSO INSTALL MATERIALS FURNISHED BY OTHERS AND GENERAL CONTRACTOR AS SHOWN ON THE PLANS OR NECESSARY FOR A COMPLETE INSTALLATION.
3. THE MC SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATING SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS.
4. ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE CONTRACTOR AT AN APPROVED LOCATION. THE MC SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE MC UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
5. THE MC SHALL INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE 2018 NORTH CAROLINA MECHANICAL AND BUILDING CODES AND ANY APPLICABLE LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN THE ABOVE REQUIREMENTS, THE MC SHALL OBTAIN CLARIFICATION FROM THE ENGINEER OR IN THE EVENT ANY PART OF THESE PLANS CONFLICTS WITH THE ABOVE REQUIREMENTS.
6. THE MC SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT. DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS.
7. THE MC SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE MC SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE MC SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
8. ALL MECHANICAL MATERIALS SHALL BE NEW AND FREE OF DEFECT AND LISTED AND LABELED BY UL OR AN APPROVED THIRD PARTY AGENCY. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE MC WITHOUT ADDITIONAL COST TO THE OWNER. WHERE A MANUFACTURER AND MODEL NUMBER IS GIVEN, THE CITED EXAMPLE IS INTENDED TO ESTABLISH A STANDARD OF QUALITY AND NOT TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. SUCH EXAMPLES ARE USED TO CONVEY A GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF THE PRODUCT DESIRED; PRODUCTS DETERMINED TO BE EQUAL BY THE ENGINEER WILL BE ACCEPTED.
9. THESE PLANS ARE DIAGRAMMATIC. THE MC SHALL ADJUST THE LOCATIONS OF EQUIPMENT, DUCTS, REGISTERS, GRILLES, ETC., TO ACCOMMODATE PLANNED AND UNANTICIPATED INTERFERENCES. THE DRAWINGS DO NOT SHOW ALL BENDS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THE MC SHALL MAKE ALLOWANCES FOR SUCH DEVIATIONS AND CONTINGENCES IN BID TO IMPLEMENT THEM WITHOUT ADDITIONAL COST TO THE OWNER.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING.
11. IT IS THE MC'S RESPONSIBILITY TO VERIFY THAT ITEMS FURNISHED FOR THIS CONTRACT WILL FIT IN THE SPACE AVAILABLE. THE MC SHALL MAKE FIELD MEASUREMENTS AS NECESSARY TO DETERMINE SPACE REQUIREMENTS. IF THE MC MUST ALTER EQUIPMENT DUE TO SPACE CONSIDERATIONS, THE MC SHALL PROVIDE SIZES AND SHAPES THAT FIT THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS.
12. THE MC SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR REGARDING THE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT BEING PROVIDED.
13. MAINTAIN CLEARANCES FOR ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR SERVICEABILITY. ALL ROOFTOP EQUIPMENT MUST BE A MINIMUM OF 10 FEET FROM ROOF EDGE.
14. MC SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF THE PROJECT. MC SHALL PROVIDE ALL DOCUMENTATION TO THE OWNER AS NECESSARY TO SUBMIT FOR FACTORY WARRANTIES.
15. CONTRACTOR SHALL PROTECT ALL HVAC EQUIPMENT FROM CONSTRUCTION AND SHEET ROCK DUST DURING CONSTRUCTION. ALL FILTERS SHALL BE REPLACED WITH NEW AT THE COMPLETION OF THE PROJECT.
16. ALL EQUIPMENT INSTALLED ON THE ROOF MUST BE WITHIN THE ROOF SCREEN. IF A ROOF PENETRATION IS REQUIRED AND THE ROOF IS UNDER WARRANTY, USE THE AUTHORIZED ROOFER. PROVIDE DOCUMENTATION.
17. ALL PIPING, WIRING, CONDUIT, INSULATION, EQUIPMENT, SUPPORTS, ETC. SHALL BE SUITABLE FOR INSTALLATION IN A RETURN PLENUM AS NECESSARY. COORDINATE WITH OTHER TRADES ON LOCATIONS OF ALL PLenums.
18. MC SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ALL APPLICABLE CONSTRUCTION WASTE IS RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

- MATERIALS:
1. THE MC SHALL PROVIDE ALL BY UNIT HEATING AND COOLING EQUIPMENT AS SCHEDULED ON THE DRAWINGS. AIR-COOLED ROOFTOP AIR CONDITIONER UNITS, SHALL BE BY CARRIER, NO SUBSTITUTIONS. THE MC SHALL PROVIDE FACTORY AND FIELD INSTALLED ACCESSORIES AS SCHEDULED OR AS NECESSARY FOR A COMPLETE AND OPERATIONAL HVAC SYSTEM.
2. THE MC SHALL PROVIDE ALL EXHAUST AND SUPPLY FANS AS SCHEDULED. FANS SHALL BE BY GREENHECK, LOREN COOK, TRIN CITY, OR PENNBARBY.
3. DUCTWORK IS SHOWN WITH FREE AREA DIMENSIONS. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT STANDARD, 2 INCH S.P.
4. EXTERNAL DUCT INSULATION AND FACTORY-INSULATED FLEXIBLE DUCT SHALL BE LEGIBLY PRINTED OR IDENTIFIED AT INTERVALS NOT GREATER THAN 36 INCHES WITH THE NAME OF THE MANUFACTURER, THE THERMAL RESISTANCE R-VALUE AT THE SPECIFIED INSTALLED THICKNESS AND THE FLAME SPREAD AND SMOKE-DEVELOPED INDEXES OF THE COMPOSITE MATERIALS. ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY, EXCLUDING AIR FILMS, VAPOR RETARDERS OR OTHER DUCT COMPONENTS, AND SHALL BE BASED ON TESTED C-VALUES AT 75° MEAN TEMPERATURE AT THE INSTALLED THICKNESS, IN ACCORDANCE WITH RECOGNIZED INDUSTRY PROCEDURES. THE INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUES SHALL BE DETERMINED AS FOLLOWS:
4.1. FOR DUCT BOARD, DUCT LINER AND FACTORY-MADE RIGID DUCTS NOT NORMALLY SUBJECTED TO COMPRESSION, THE NOMINAL INSULATION THICKNESS SHALL BE USED.
4.2. FOR DUCT WRAP, THE INSTALLED THICKNESS SHALL BE ASSUMED TO BE 75 PERCENT (SEVEN-FIFTY PERCENT) COMPRESSION OF NOMINAL THICKNESS.
4.3. FOR FACTORY-MADE FLEXIBLE AIR DUCTS, THE INSTALLED THICKNESS SHALL BE DETERMINED BY DIVIDING THE DIFFERENCE BETWEEN THE ACTUAL OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO.
5. DUCT LINER MAY BE SUBSTITUTED FOR EXTERIOR DUCT WRAP. DUCT LINER

- INSULATION MATERIALS SHALL MEET THE REQUIREMENTS OF ASTM C 1071, AND ASTM C 211 EXTERIOR DUCT R-VALUE SHALL BE 6-8 AND INTERIOR R-VALUE SHALL BE R-6 IN ACCORDANCE WITH THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE. NOMINAL DUCT SIZES SHALL BE ADJUSTED AS NECESSARY SO THAT FREE AREA DIMENSIONS ARE PRESERVED AS SHOWN ON THE PLANS. FABRICATION AND INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND TO THE REQUIREMENTS OF THE LATEST EDITION OF THE NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION FIBROUS GLASS DUCT LINER STANDARDS AND/OR SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCT LINER SHALL HAVE A BLACK PIGMENTED MAT ON THE AIRSTREAM SIDE TO RESIST DAMAGE DURING INSTALLATION AND SERVICE. EDGES SHALL BE FACTORY COATED WITH BLACK PIGMENTED COATING TO COMPLY WITH SMACNA DCS REQUIREMENTS. ALL PORTIONS OF DUCT DESIGNATED TO RECEIVE DUCT LINER SHALL BE COMPLETELY COVERED WITH DUCT LINER. TRANSVERSE JOINTS SHALL BE TIGHT AND THERE SHALL BE NO GAPS, NO INTERRUPTIONS OR GAPS. THE BLACK PIGMENTED OR MAT FACED SURFACES SHALL FACE THE AIRSTREAM. DUCT LINER SHALL BE ADHERED TO THE SHEET METAL WITH 90 PERCENT COVERAGE OF ADHESIVE COMPLYING WITH REQUIREMENTS OF ASTM C 916. ALL EXPOSED LEADING EDGES AND TRANSVERSE JOINTS SHALL BE FACTORY COATED OR COATED WITH ADHESIVE DURING FABRICATION. DUCT LINER SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS, EITHER WELD-SECURED OR IMPACT DRIVEN, WHICH SHALL COMPRESS THE DUCT LINER SUFFICIENTLY TO HOLD IT FIRMLY IN PLACE. ADHESIVE BONDED PINS ARE NOT PERMITTED DUE TO LONG-TERM ADHESIVE AGING CHARACTERISTICS. LININGS SHALL BE INTERRUPTED AT THE AREA OF OPERATION OF A FIRE DAMPER AND AT A MINIMUM OF 6 INCHES UPSTREAM AND 6 INCHES DOWNSTREAM OF ELECTRIC RESISTANCE AND FLEXIBLE DUCTS SHALL BE INSTALLED WITH GROMMETS OR SLEEVES SHALL BE INSTALLED OVER EXPOSED DUCT LINER THAT FACE OPPOSITE THE DIRECTION OF AIRFLOW. UPON COMPLETION OF INSTALLATION OF DUCT LINER AND BEFORE OPERATION IS TO COMMENCE, VISUALLY INSPECT SYSTEM AND VERIFY THAT THE DUCT LINER IS PROPERLY INSTALLED, OPEN ALL SYSTEM DAMPERS AND TURN ON FANS TO BLOW ALL SCRAPS AND OTHER LOOSE PIECES OF MATERIAL OUT OF THE DUCT SYSTEM. ALLOW FOR A MEANS OF REMOVAL OF SUCH MATERIAL.
6. ALL INSULATION CONTAINING FIBROUS MATERIALS EXPOSED TO AIRFLOW SHALL BE RATED FOR THAT EXPOSURE OR SHALL BE ENCAPSULATED. INSULATING PROPERTIES FOR ALL MATERIALS SHALL MEET OR EXCEED INDUSTRY STANDARDS. POLYSTYRENE PRODUCTS SHALL MEET ASTM 6578. ALL INSULATION SHALL HAVE FORMALDEHYDE EMISSIONS NOT GREATER THAN 0.05 PPML. MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDEX FOR INSULATION SHALL MEET THE REQUIREMENTS OF THE LOCAL CODES AND ORDINANCES ADOPTED BY THE JURISDICTION IN WHICH THE BUILDING IS LOCATED.
7. MASTIC USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A-95 OR UL 181B-98. MAINTAIN AMBIENT TEMPERATURES AND CONDITIONS REQUIRED BY MANUFACTURER OF ADHESIVES, MASTICS, AND INSULATION COMPONENTS. DO NOT INSTALL DUCT SEALANT WHEN TEMPERATURES ARE LESS THAN THOSE RECOMMENDED BY THE SEALANT MANUFACTURER.
8. ALL ADHESIVES AND SEALANTS SHALL HAVE VOC CONTENT BELOW 20 GRAMS PER LITER AND WHICH MEET THE REQUIREMENTS OF THE MANUFACTURER OF THE PRODUCTS BEING ADHERED OR INVOLVED. ADHESIVES AND SEALANTS SHALL CONTAIN NO HEAVY METALS OR FORMALDEHYDES.
9. FACTORY-MADE AIR DUCTS AND CONNECTORS SHALL COMPLY WITH UL 181-96. FLEXIBLE DUCT SHALL BE UL LISTED CLASS D OR CLASS 1, INSULATED, AND COMPLY WITH UL 181. FLEXIBLE DUCT SHALL BE FACTORY FORMED, COMPOSED OF SPIRAL WOUND CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER. DUCT SHALL BE FACTORY INSULATED WITH A FOIL VAPOR BARRIER JACKET. CONNECT TO RIGID DUCT WITH SPIN-IN FITTING AND DAMPER. FLEXIBLE DUCTS AND AIR CONNECTORS SHALL NOT PASS THROUGH ANY FIRE RESISTANCE RATED ASSEMBLY.
11. THE MC SHALL PROVIDE ALL DIFFUSERS, GRILLES, LOUVERS, AND OTHER AIR DISTRIBUTION OUTLETS AND INLETS, LOUVERS, GRILLES, AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR LAY-IN CEILING, INSTALL SUPPORT FROM THE STRUCTURE FOR EACH DIFFUSER OR DAMPER. AIR DISTRIBUTION OUTLETS AND INLETS SHALL BE BY HART & COOLEY, PRICE, METAL-ARE, MALOR, OR CARNES.
12. AIR FILTERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 605 OF THE 2018 NC MECHANICAL CODE.
13. THE MC SHALL PROVIDE ALL REFRIGERATION PIPING, ALL PIPE AND FITTINGS SHALL BE TYPED AND AIR TIGHT. SOLDER REFRIGERATION LINES USING 15 PERCENT SILVER SOLDER AND EVACUATE LINES TO 300 MICRONS. PROVIDE MOISTURE INDICATING SIGHT GLASS AND FILTER DRYER IN LIQUID LINE. PROVIDE OIL TRAPS AND DOUBLE RISERS IN REFRIGERANT SUCTION AND HOT GAS LINES WHERE REQUIRED TO PREVENT OIL SLUGGING AT THE COMPRESSOR AND INSURE PROPER LUBRICATION. MC SHALL BE RESPONSIBLE FOR SEALING LINE SET PENETRATIONS OF ANY RATED ASSEMBLY IN ACCORDANCE WITH A SYSTEM LISTED IN THE UL DIRECTORY FOR THE SPECIFIC ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR A LIST OF ALL UL FIRE RATED ASSEMBLIES.

- METHODS:
1. INSULATE DUCTWORK WITH FIBERGLASS DUCT WRAP, INSTALLED R-VALUE SHALL BE A MINIMUM R-6. COVERINGS AND LININGS, INCLUDING ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL NEW DUCTWORK SHALL RECEIVE INSULATION ON THE OUTSIDE. INSTALL DUCT WRAP INSULATION WITH FACING OUTSIDE SO THAT TAPE FLAP OVERLAPS INSULATION AND FACING OF ADJACENT PIECE OF DUCT WRAP. INSULATION SHALL BE TIGHTLY BUTTED. FOR RECTANGULAR DUCTS, INSTALL 50 INSULATION IS NOT EXCESSIVELY COMPRESSED AT DUCT CORNERS. STRAP SEAMS APPROXIMATELY 6 INCHES ON CENTER WITH OUTWARD CLINCHING STAPLES. SEAL SEAMS WITH PRESSURE SENSITIVE TAPE MATCHING THE FACING. FOR RECTANGULAR DUCTS 24 INCHES IN WIDTH OR GREATER, SECURE DUCT WRAP TO THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS SPACED 18 INCHES ON CENTER TO PREVENT SAGGING OF INSULATION. ADJACENT SECTIONS OF DUCT WRAP SHALL BE TIGHTLY BUTTED WITH THE 2 INCH TAPE FLAP OVERLAPPING. ALL TEARS, PUNCTURES, ETC. OF THE DUCT WRAP INSULATION SHALL BE SEALED WITH TAPE OR MASTIC TO PROVIDE A VAPOR TIGHT SYSTEM. INSULATION SHALL BE BY KNAUF INSULATION, OWENS CORNING CORP, OR CERTAINTED CORPORATION.
2. VERIFY THAT DUCTS HAVE BEEN TESTED BEFORE APPLYING INSULATION MATERIALS.

METHOD OF COMPLIANCE THERMAL ZONE PREScriptive ZONE 4A
EXTERIOR DESIGN CONDITIONS HEATING DESIGN DRY BULB 25.2°F COOLING DESIGN DRY BULB 94.3, 7°F COOLING DESIGN WET BULB 74.7°F
INTERIOR DESIGN CONDITIONS HEATING DESIGN DRY BULB 70°F COOLING DESIGN DRY BULB 75°F COOLING DESIGN RELATIVE HUMIDITY 50%
HEATING LOAD 165,330 BTU/H
SENSIBLE COOLING LOAD 138,235 BTU/H LATENT COOLING LOAD 68,000 BTU/H
MECHANICAL SPACING CONDITIONING SYSTEM UNITARY DESCRIPTION OF UNITS(S)
BOILER N/A TOTAL BOILER OUTPUT N/A CHILLER N/A TOTAL CHILLER CAPACITY N/A
EQUIPMENT EFFICIENCIES: SEE SCHEDULES
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS): SEE SCHEDULES
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE, THE MECHANICAL DESIGN FOR THIS BUILDING COMPLIES WITH MECHANICAL AND EQUIPMENT REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE AND 2018 NORTH CAROLINA ENERGY CONSERVATION CODE.

MECHANICAL DESIGNER'S STATEMENT | 2

Ventilation Calculation (For Unit RTU-1,2)
Table with columns: Room Name(s), Zone Type, Area (sq.ft.), Rp, Ra, Default Occupancy, Pz, Ez, Airflow to Zone (cfm)
Rows for Retail Sales, K-12 School, Uncorrected Intake, Outdoor Air Intake, Percent of Unit Air.

Ventilation Calculation (For Unit RTU-3)
Table with columns: Room Name(s), Zone Type, Area (sq.ft.), Rp, Ra, Default Occupancy, Pz, Ez, Airflow to Zone (cfm)
Rows for Shipping/Receiving, K-12 School, Uncorrected Intake, Outdoor Air Intake, Percent of Unit Air.

ROOFTOP PACKAGE AC WITH ELECTRIC STRIP SCHEDULE
Table with columns: MARK, MFG / MODEL #, NOMINAL CAPACITY, AIR FLOW, COMPRESSORS, AUX ELEC HEAT, EAT W8/8, COOLING CAPACITY, FILTER, ELECTRICAL, WEIGHT, REMARKS

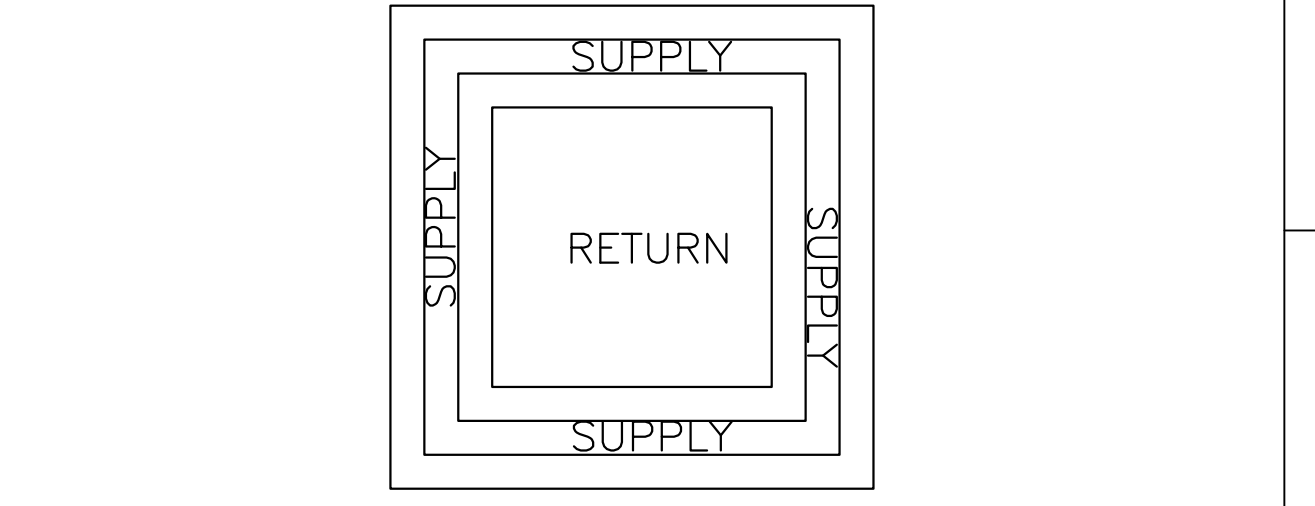
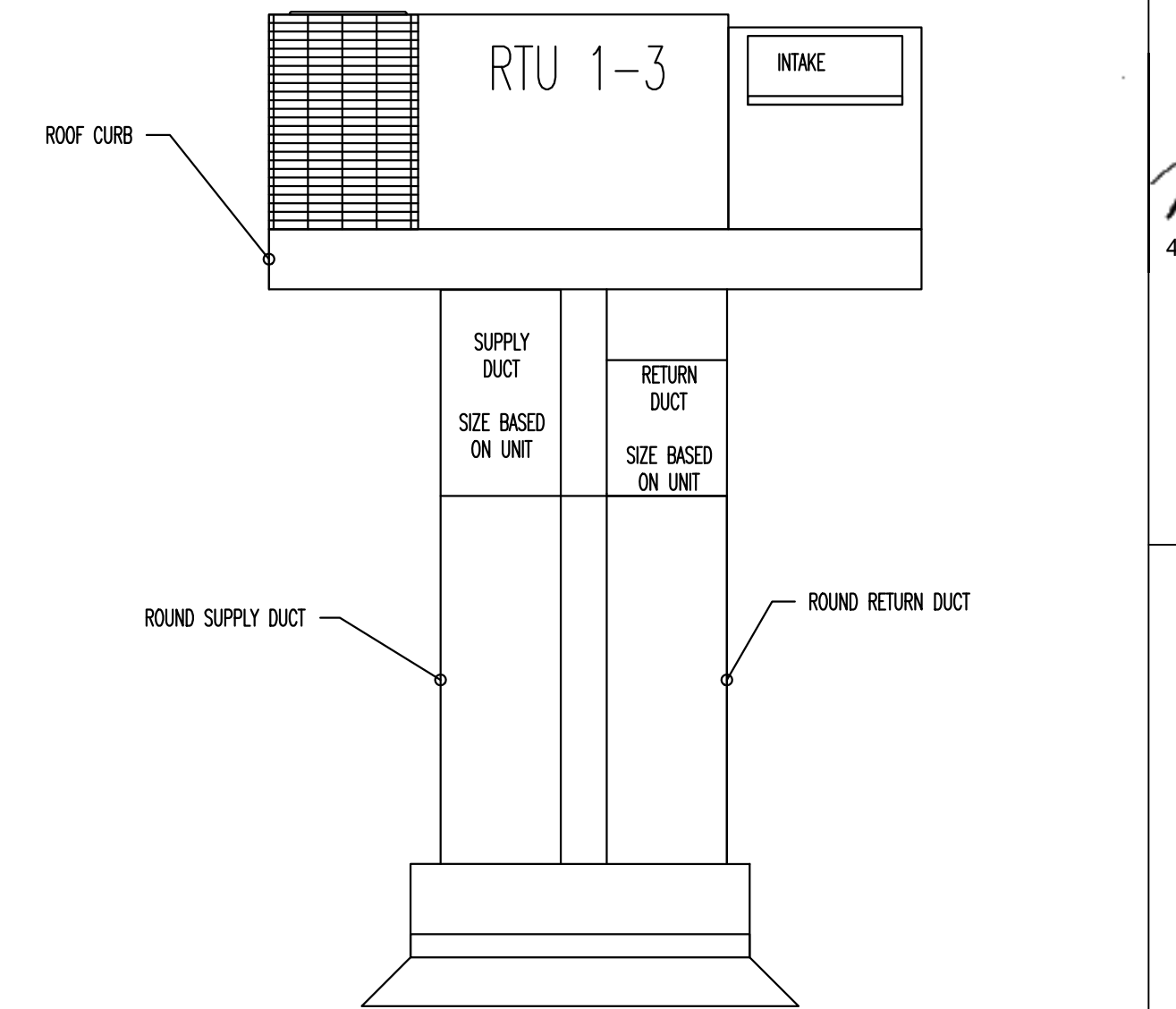
- 1. PROVIDE WITH ROOF CURB.
2. THRU THE BASE CONNECTIONS
3. VARIABLE FREQUENCY DRIVE.
4. PROVIDE WITH SINGLE INPUT ELECTRONIC ENTHALPY ECONOMIZERS WITH BAROMETRIC RELIEF DAMPERS
5. ENTHALPY ACCESSORY CONTROL KIT TO CONVERT SINGLE ENTHALPY ECONOMIZER TO DUAL ENTHALPY FOR ECONOMIZERS.
6. TWO (2) ADDITIONAL SETS OF FILTERS (POST CONSTRUCTION/PRE TEST AND BALANCE, AND ONE SET TO OWNER FOR FUTURE USE.
7. ANY EQUIPMENT SUBSTITUTIONS MUST EQUAL OR EXCEED EFFICIENCIES LISTED (RATINGS PER SET)
8. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES
9. PROVIDE DUCT DETECTOR IN RETURN DUCT. PROVIDE RELAY FOR KILLING POWER TO UNIT'S FAN FC TO PROVIDE, MC TO INSTALL.
10. PROVIDE HAIL GUARDS
11. 4 WAY DIFFUSER

EXHAUST FAN SCHEDULE
Table with columns: MARK, MFG / MODEL #, TYPE, ESP (in WD), CFM, VOLT/PLA, SDNES, NOTES

- 1. PROVIDE WITH PITCHED ROOF CAP OR HOODED WALL CAP AS APPLICABLE.
2. PROVIDE WITH SQUARE TO ROUND DUCT ADAPTER AS NECESSARY
3. OR EQUAL BY LOREN COOK OR PENNBARBY

MECHANICAL SCHEDULES | 3

Ventilation Calculation (For Unit RTU-1,2)
Table with columns: Room Name(s), Zone Type, Area (sq.ft.), Rp, Ra, Default Occupancy, Pz, Ez, Airflow to Zone (cfm)
Rows for Retail Sales, K-12 School, Uncorrected Intake, Outdoor Air Intake, Percent of Unit Air.



MECHANICAL UNIT DETAIL - NO SCALE | 5

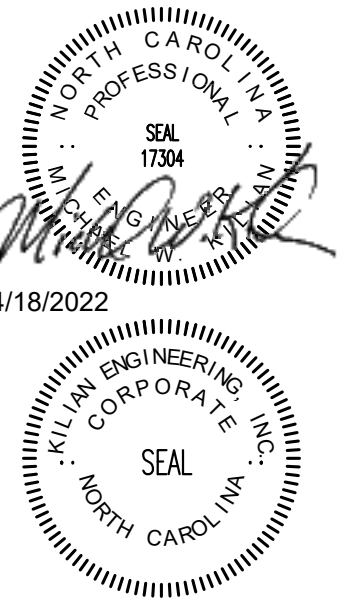
MECHANICAL NOTES AND SCHEDULES | 1

VENTILATION CALCULATION- NO SCALE | 4

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Wilmington, NC 28401
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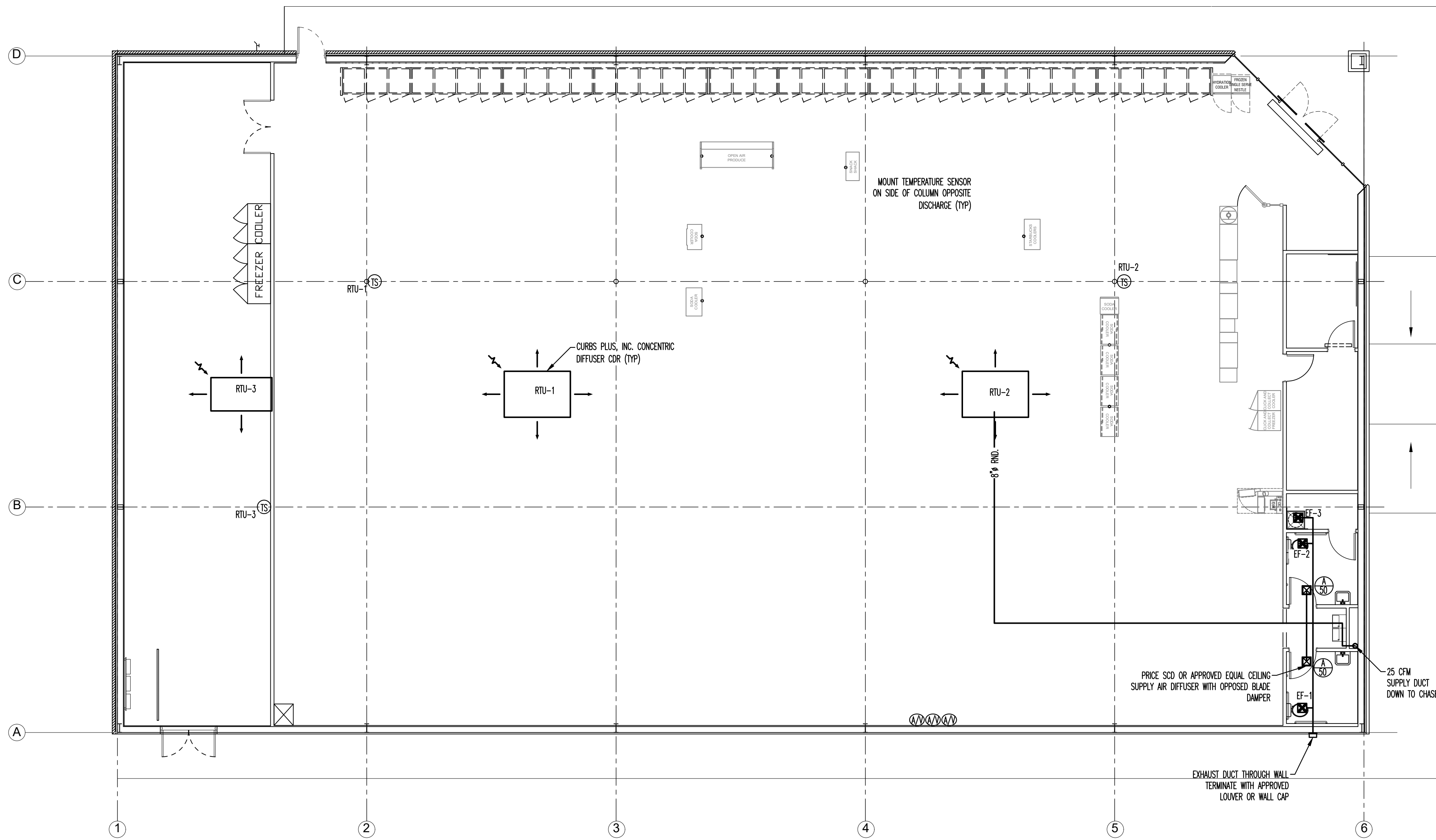
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DOLLAR GENERAL STORE # 23680
MAMMERS ROAD LILLINGTON, NC

JOB NUMBER 22223
DRAWN BY REW
DATE 04/18/2022
REVISIONS

SHEET NUMBER MO



MECHANICAL PLAN - SCALE: 1/8"=1' 1

HVAC PROJECT NOTES

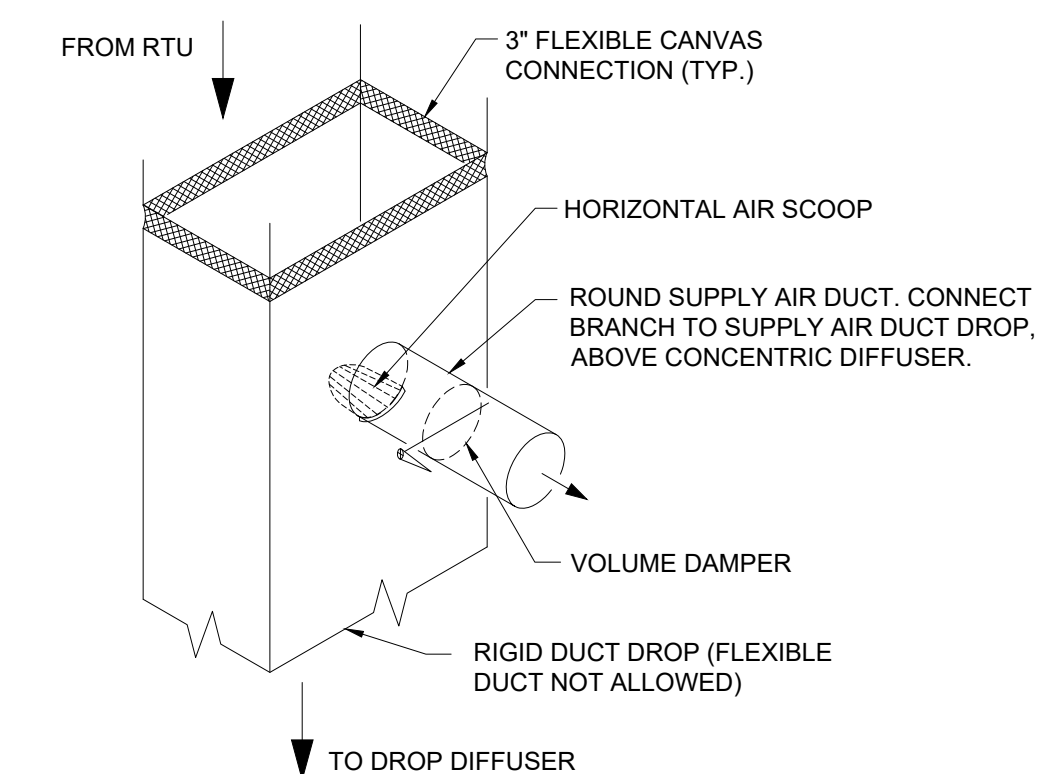
- ALL MECHANICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS AND ORDINANCES AND IN A MANNER SATISFACTORY TO THE AUTHORITY HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL APPLICABLE FEES.
- DUCTWORK AND HVAC SYSTEMS ARE NOT DIMENSIONED. DO NOT SCALE FROM DRAWING(S). MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ENSURE THERE IS AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATION.
- UNLESS OTHERWISE NOTED ON DRAWINGS, ANY REQUIRED DUCTWORK SHALL BE INSTALLED TIGHT TO STRUCTURE.
- DESIGN ENGINEER TO INDICATE FIRE DAMPERS IN ALL RATED CONSTRUCTION ASSEMBLIES. COORDINATE PLACEMENT OF ALL FIRE DAMPERS WITH RATED ASSEMBLIES ON ARCHITECTURAL DRAWINGS.
- COORDINATE ALL DIFFUSER, GRILLE & REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- NECK SIZE OF LAY-IN DIFFUSERS SHALL BE EQUAL IN DIAMETER TO DUCT RUNOUT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND INCIDENTALS TO THE WORK INVOLVED FOR A COMPLETE AND OPERATING FACILITY.
- ALL EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ELECTRICAL STARTER, PROTECTIVE DEVICES AND INTERLOCKS, ETC. REQUIRED FOR COMPLETE OPERABLE SYSTEM.
- ALL HVAC EQUIPMENT LOCATIONS SHALL BE COORDINATED TO ENSURE CLEAR ACCESS TO ALL AREAS. EQUIPMENT SHALL BE ORIENTED IN SUCH A MANNER AS TO ALLOW FOR FULL SERVICE/MAINTENANCE.
- COLOR AND FINISH FOR ALL EXTERIOR LOUVER WALL CAP SHALL BE COORDINATED WITH THE ARCHITECT/OWNER.
- THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR TEST, ADJUST AND BALANCE OF THE AIR DISTRIBUTION SYSTEM.
- ALL SUPPLY AND RETURN DUCT SHALL BE CONNECTED TO THE HVAC UNIT WITH FLEXIBLE UL LISTED CANVAS.
- DUCTWORK DIMENSIONS SHOWN ON MECHANICAL PLANS ARE NET CLEAR INSIDE DIMENSIONS.
- OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE, SECTION 401.4.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLING ANY EQUIPMENT SHIPPED IN SECTIONS, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- UNITS GREATER THAN 2,000 CFM REQUIRE A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT. UNITS BELOW 2,000 CFM ARE TO BE EQUIPPED WITH A FIRESTAT. LOCAL ORDINANCES MAY HAVE MORE STRINGENT REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- SEE ARCHITECTURAL PLANS FOR TYPE OF CONSTRUCTION, OCCUPANCY, AND THE INTENDED USE OF EACH SPACE.
- SEE ARCHITECTURAL PLANS FOR R' VALUES OF CONSTRUCTION COMPONENTS (SUCH AS WALLS, FLOORS, CEILING & PERIMETER INSULATION).
- INSULATING MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT EXCEEDING 450 IN ACCORDANCE WITH ASTM E 84.
- ALL HVAC EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY AS TO REDUCE VIBRATION TRANSMISSION TO STRUCTURAL MEMBERS.

MECHANICAL PROJECT NOTES 2

SYMBOL LEGEND	
	EXHAUST FAN
	SUPPLY AIR DIFFUSER
	TEMPERATURE SENSOR
	RETURN/EXHAUST AIRFLOW
	SUPPLY AIRFLOW
	VOLUME DAMPER
	CONDENSATE PIPE

HVAC SPECIFICATIONS:

- SEE SHEET M0 FOR GENERAL MECHANICAL PROJECT NOTES
- ROOF MOUNTED SYSTEM WITH ANY REQUIRED DUCTWORK, CONFORMING TO ASHRAE SPECIFICATIONS IN SALES FLOOR, OFFICES, REST ROOM, AND RECEIVING AREAS.
- ANY DUCTWORK MUST BE INSTALLED ABOVE 11'-6" A.F.F. NO HVAC DUCT TRUNKLINE TO BE INSTALLED WITHIN 48" RADIUS OF REGISTER/ICE CREAM POWER POLES. REFER TO SHEET E1.1 FOR EXACT LOCATION OF POWER POLES.
- FOR HVAC SENSOR LOCATIONS SEE EMS1 SHEET.
- LENNOX, CARRIER OR YORK PACKAGED HVAC SYSTEMS ARE REQUIRED. SEE HEATING SOURCE REQUIREMENT BY REGION ON M0.
- PROVIDE CEILING EXHAUST FANS FOR RESTROOMS. INTERLOCK WITH RESTROOM LIGHTS. VENT EXHAUST FANS THRU SIDE WALL, NOT THRU THE ROOF. INSTALL BACKDRAFT DAMPERS AT EACH FAN.
- REFER TO S3 FOR ROOF CURB INFORMATION AND DESIGN INTENT.
- CONCENTRIC DIFFUSERS, AVAILABLE THROUGH YORK, CAN BE USED ON ALL VENDOR'S EQUIPMENT. CONTACT YORK NATIONAL PRICING FOR INFORMATION. LOCATE THE BOTTOM OF DIFFUSER AT 12'-0" A.F.F.



NOTE:  
INSTALL HORIZONTAL AIR SCOOP HAVING A CONTINUOUSLY CURVED CROSS SECTION AND BALANCING DAMPER AT DUCT CONNECTION TO DIVERT SUPPLY AIR INTO THE CONNECTED DUCTWORK. LENGTH OF SCOOP SHALL BE LIMITED TO THE WIDTH OF THE SUPPLY AIR ANNULAR SPACE.

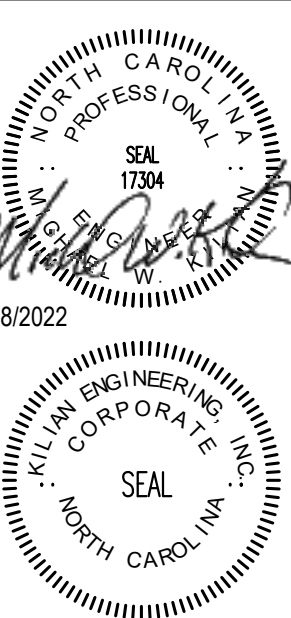
MECHANICAL SPECIFICATIONS AND SCHEDULE 3

HVAC DUCT DETAIL - NO SCALE 4

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 211 East Nash Street  
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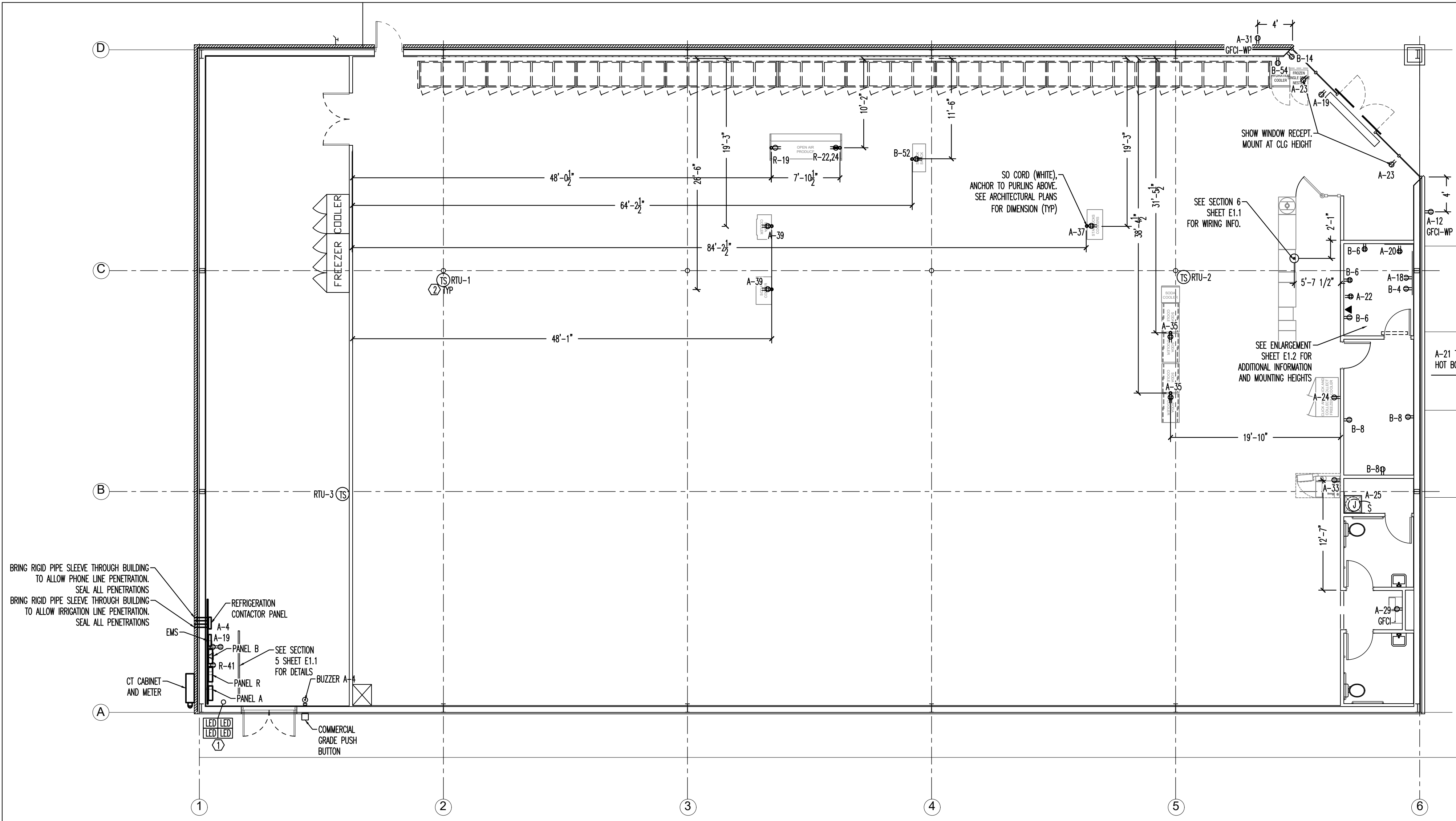


**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NC

JOB NUMBER  
 22223  
 DRAWN BY  
 REW  
 DATE  
 04/18/2022  
 REVISIONS

SHEET NUMBER

**M1**

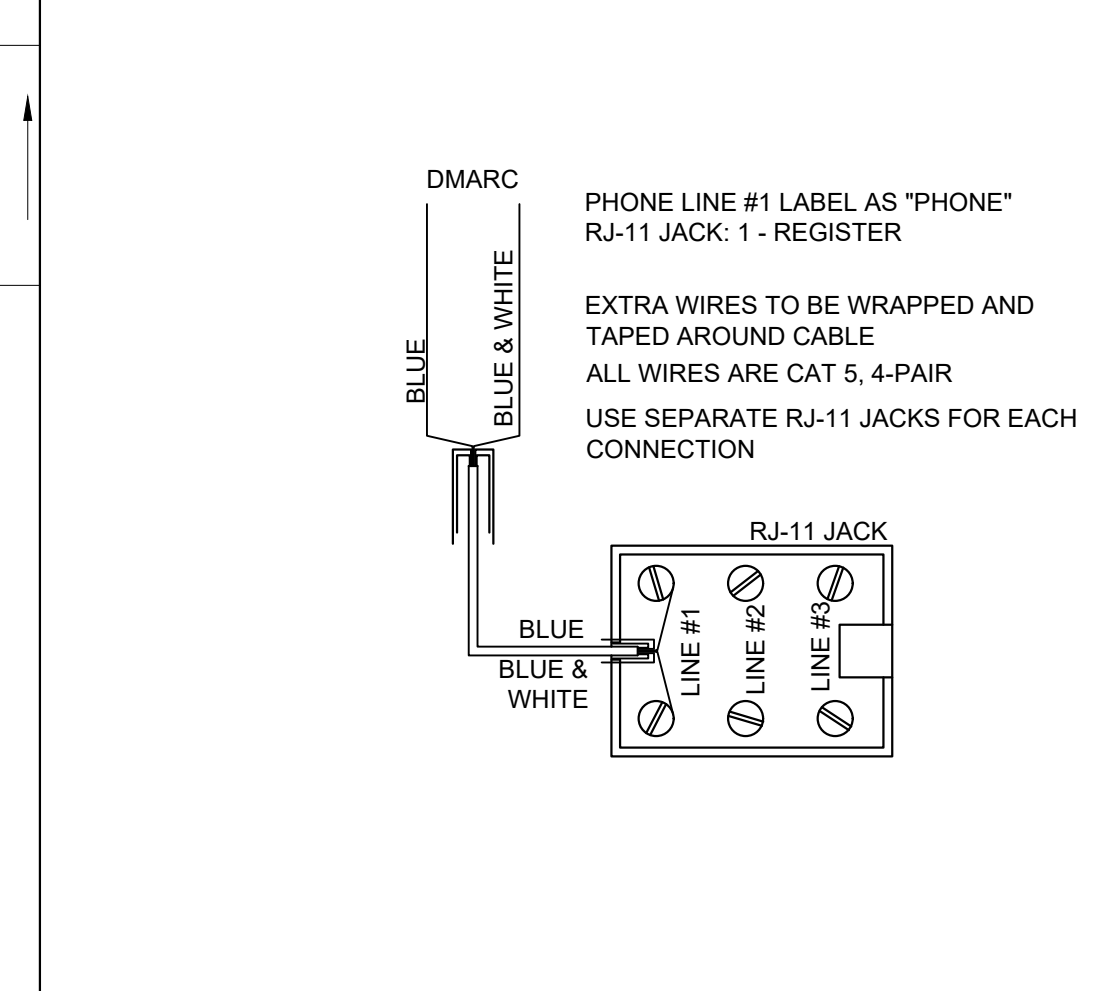


POWER PLAN - SCALE: 1/8"=1' 1

### LEGEND

SYMB	DESCRIPTION
	BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592
	COMMERCIAL GRADE PUSH BUTTON
	125V NEMA 5-20R DUPLEX. PANEL/CIRCUIT IN PANEL
	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
	125V NEMA 5-20R QUAD
	DISCONNECT
	BLACK MAGIC POWER POLE
	PHONE JACK
	RJ-11, RJ-45 DATA JACK, PHONE COMBO
	PANEL/CIRCUIT IN PANEL
	PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW
	20 AMP TOGGLE SWITCH
	NIGHT LIGHT CIRCUIT

ELECTRICAL LEGEND-NO SCALE 2

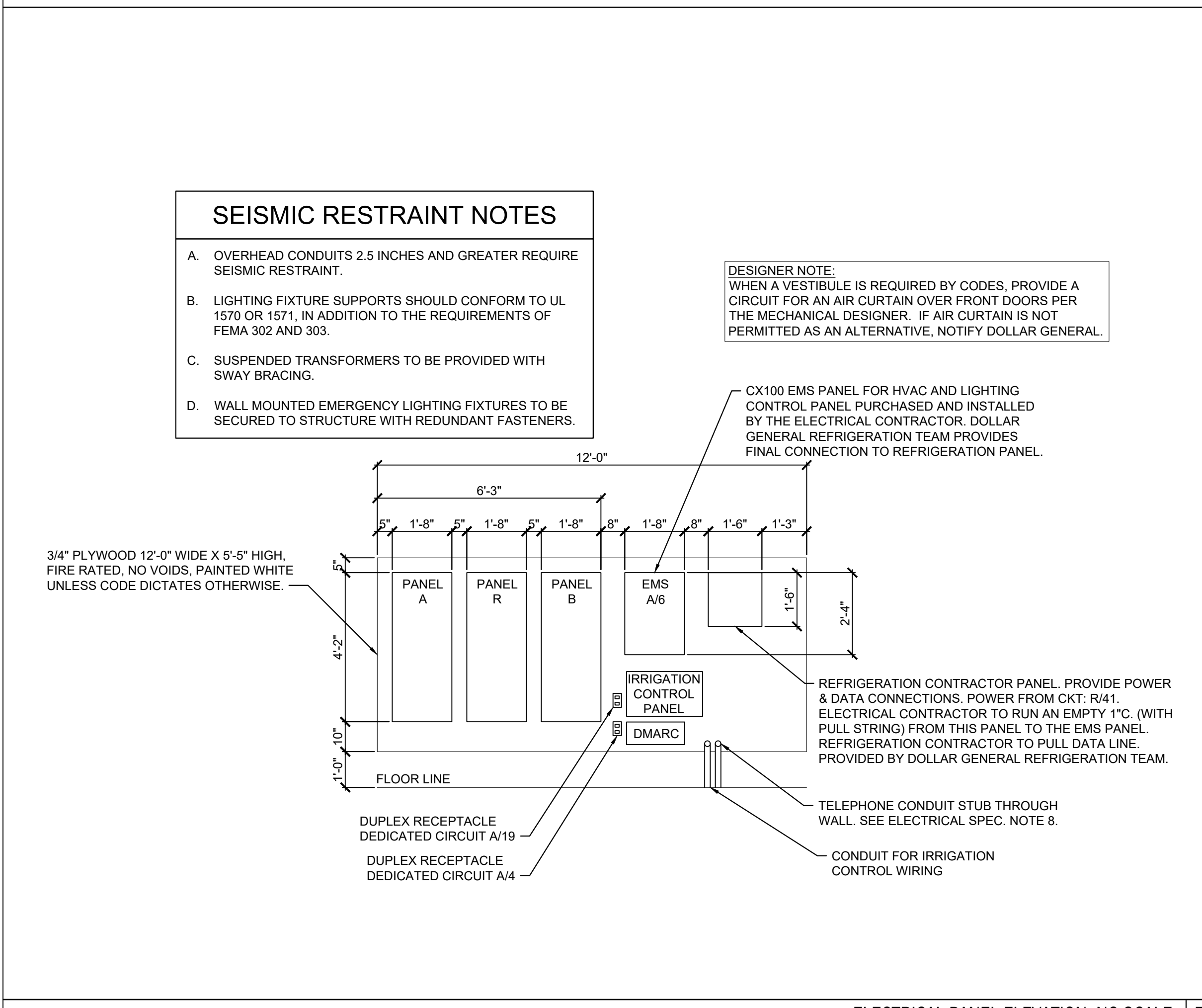


PHONE WIRING SCHEMATIC-NO SCALE 3

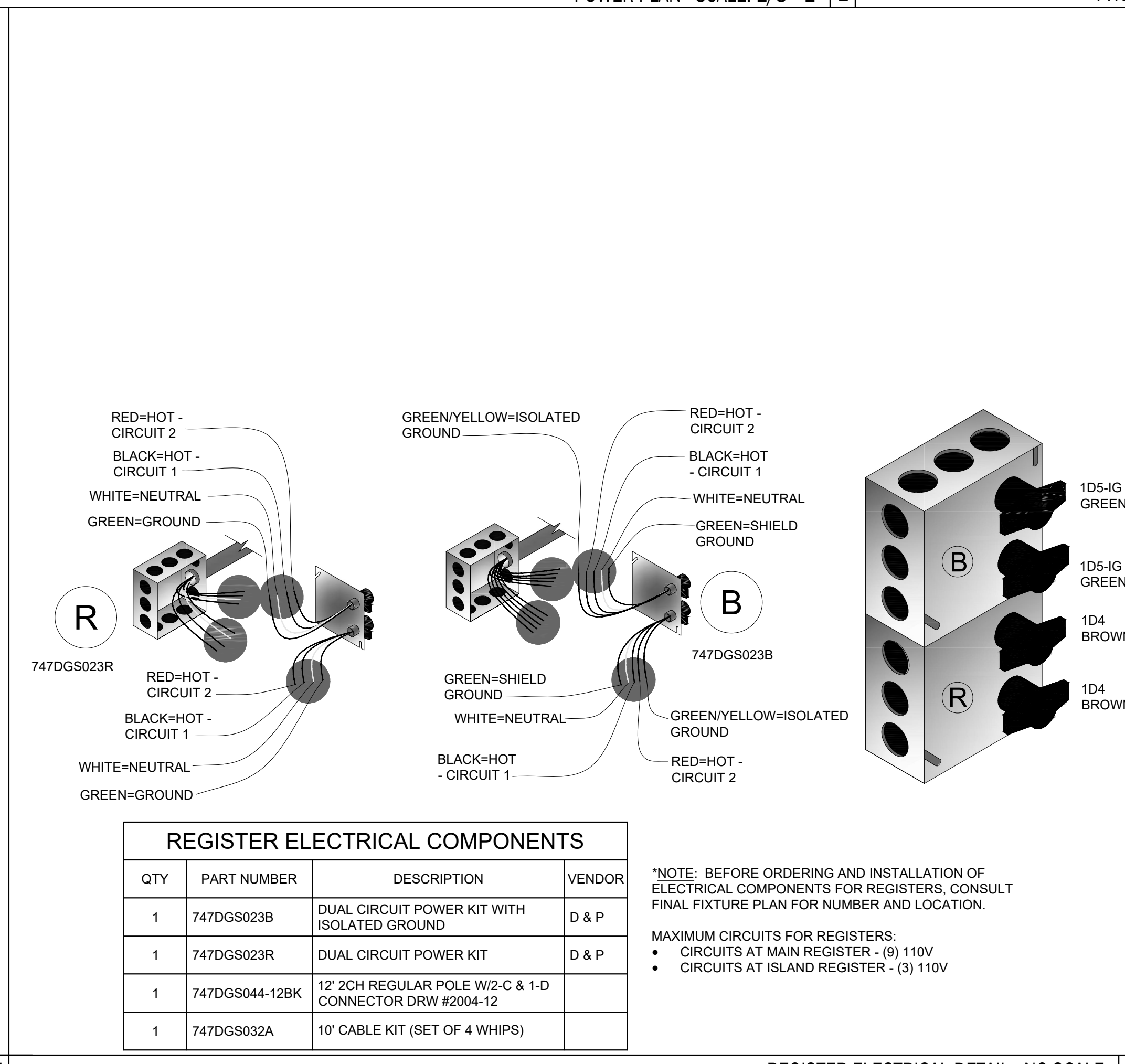
- ### ELECTRICAL SPECIFICATIONS
- ALL WIRING SHALL BE CONTAINED IN CONDUIT OF PROPER SIZE.
  - ALL WIRING SHALL CONFORM TO LOCAL, STATE AND FEDERAL CODES.
  - SERVICE IS TO BE A MINIMUM 400 AMP, 3 PHASE (PREFERRED), 600 AMP, 1 PHASE OR LARGER IF REQUIRED BY CODE OR ELECTRICAL LOAD.
  - REQUIRED CUSTOM BUILT POWER POLE ASSEMBLIES AVAILABLE FROM D&P CUSTOM LIGHTS & PRODUCTS INC., PHONE: (800) 251-2200 OR (615) 350-7800, 7111 COCKRILL BEND INDUSTRIAL ROAD, NASHVILLE, TN 37209. SEE E3.1.
  - EXTERIOR EXPOSED PHONE LINES TO BE INSTALLED IN RIGID CONDUIT. PROVIDE EMERSON 3/4" X 5'-FT. METALLIC CABLE U-GUARD #755, OR EQUAL.
  - ELECTRICAL PANEL TO BE LABELED CORRECTLY WITH LEGIBLE PRINT.
  - LOW VOLTAGE VENDOR TO PROVIDE AND INSTALL ONE (1) 24 GA., 4 TWISTED-PAIR, CATEGORY-FIVE (CAT5) DATA CABLE WITH MODULAR COMBO RJ-11/RJ-45 JACK AT MANAGER'S OFFICE. CABLE TO BE RUN FROM JACK TO DATA HUB LOCATION WITH 6'-0" LEFT COILED FOR INSTALLATION TO DATA HUB. A RJ-45 MALE FITTING SHOULD BE CRIMPED ON THIS END. DOLLAR GENERAL STORE OPENING TEAM WILL MAKE FINAL CONNECTION INTO THE DATA HUB.
  - PROVIDE 1 1/2" EMT CONDUIT TO ACT AS ACCESS SLEEVE TO ALLOW PHONE COMPANY TO TERMINATE AT DMARC. CONTRACTOR TO PROVIDE AND INSTALL PHONE WIRING & RJ-11 PHONE JACK FOR COMPLETED WORKING SYSTEM PRIOR TO PHONE COMPANY FINAL HOOK UP.
  - ALL 120 VOLT OUTDOOR GFCI RECEPTACLES TO HAVE "WET LOCATION - IN USE" COVERS.
  - ALL CONDUCTORS TO BE COPPER, #12 AWG MINIMUM SIZE, OR AS REQUIRED BY LOAD AND OVER CURRENT PROTECTION.
  - SEE EMS SHEETS EMS1 FOR ENERGY MANAGEMENT SYMBOLS AND INFORMATION.
  - ELECTRICIAN TO PROVIDE 1 1/2" CONDUIT WITH PULL STRINGS FOR SATELLITE LOCATION.
  - ALL POWER AND DATA TO BE ROUTED OVERHEAD, UNDER SLAB NOT ALLOWED.

- ### ELECTRICAL KEYED NOTES
- TEST/RESET STATION FOR STAND ALONE DUCT DETECTOR, ONE FOR EACH DEVICE, SEE KEY NOTE 3 ON SHEET E1.3. SIMPLEX #4098-9842 IS SPECIFIED. WITH PIEZO AND LED INDICATOR LIGHT.
  - MECHANICAL THERMOSTAT MOUNTED ON COLUMN AT 8'-0" AFF. SURFACE MOUNT BOX AND CONDUIT. STUB CONDUIT AT STRUCTURE.

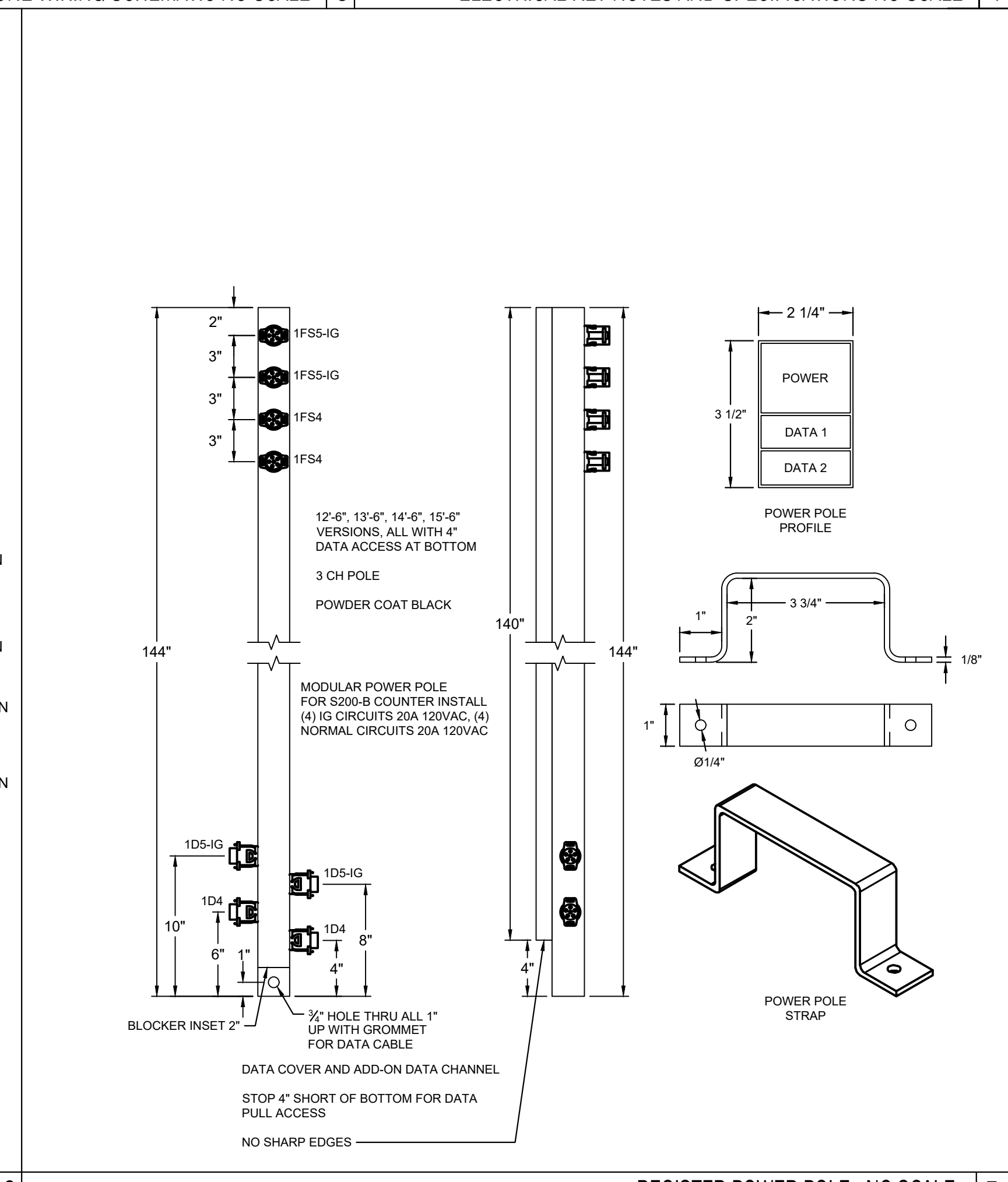
ELECTRICAL KEY NOTES AND SPECIFICATIONS-NO SCALE 4



ELECTRICAL PANEL ELEVATION- NO SCALE 5



REGISTER ELECTRICAL DETAIL - NO SCALE 6



REGISTER POWER POLE - NO SCALE 7

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Wilmington, NC 27893  
Phone: 252.292.7100  
Facsimile: 252.292.7100

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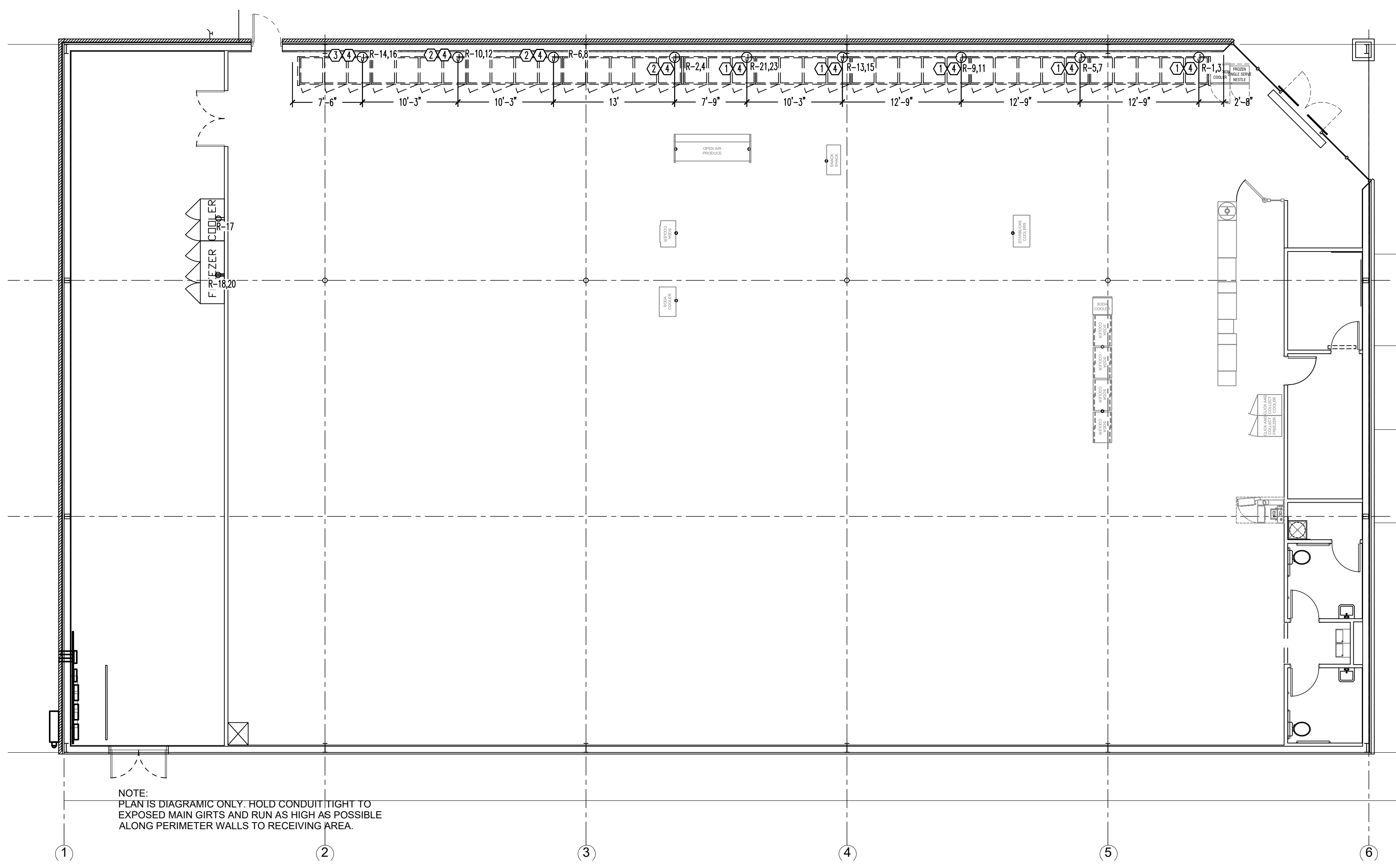
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DOLLAR GENERAL  
STORE # 23680  
MAMERS ROAD  
LILLINGTON, NC

JOB NUMBER  
22223  
DRAWN BY  
REW  
DATE  
04/18/2022  
REVISIONS

SHEET NUMBER  
**E1.1**



NOTE:  
PLAN IS DIAGRAMIC ONLY. HOLD CONDUIT TIGHT TO EXPOSED MAIN GIRTS AND RUN AS HIGH AS POSSIBLE ALONG PERIMETER WALLS TO RECEIVING AREA.

REFRIGERATION POWER PLAN - SCALE: 1/8"=1' 1

LEGEND	
SYMB	DESCRIPTION
5	BUZZER - TORK MDL #T725 W/ TRANSFORMER MDL#TA592
■	COMMERCIAL GRADE PUSH BUTTON
⊕A-23	125V NEMA 5-20R DUPLEX PANEL/CIRCUIT IN PANEL
⊕	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
⊕	125V NEMA 5-20R QUAD
□	DISCONNECT
■	BLACK MAGIC POWER POLE
▲	PHONE JACK
○	RJ-11, RJ-45 DATA JACK, PHONE COMBO
A-23	PANEL/CIRCUIT IN PANEL
§ m	PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW
†	20 AMP TOGGLE SWITCH
NL	NIGHT LIGHT CIRCUIT

**GENERAL NOTES**

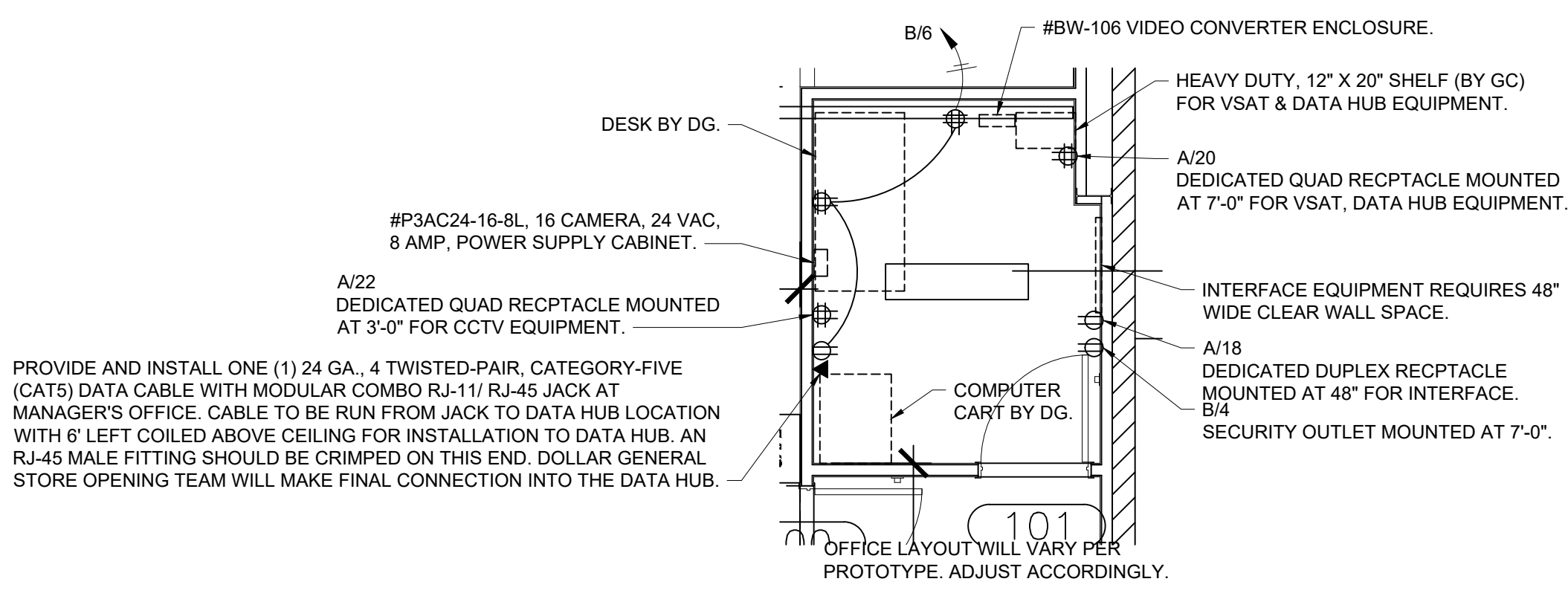
A. MOUNT ALL REFRIGERATOR OUTLETS AT 12" AFF.

**ELECTRICAL KEYED NOTES**

1. PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#12 CU. & #12 GROUND IN 3/4" R.C. TO PROVIDE AND INSTALL 30A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
2. PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#8 CU. & #10 GROUND IN 1" R.C. TO PROVIDE AND INSTALL 60A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
3. PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#10 CU. & #10 GROUND IN 3/4" R.C. TO PROVIDE AND INSTALL 30A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
4. MOUNT J-BOX 11" FROM THE RIGHT SIDE OF EACH UNIT. CONFIRM EXACT LOCATION WITH REFRIGERATION VENDOR PRIOR TO WORK (TYP).

ELECTRICAL LEGEND-NO SCALE 2

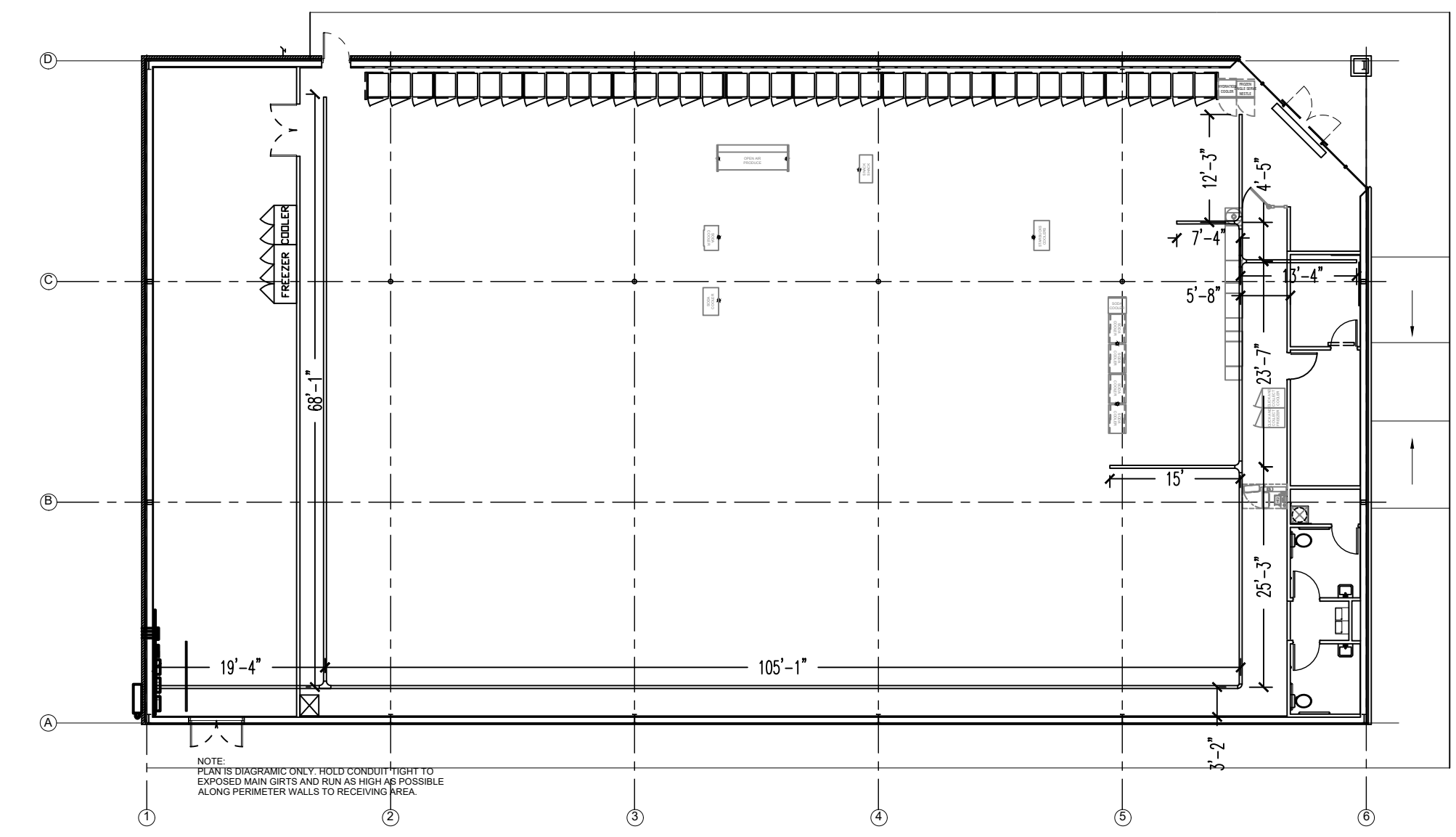
ELECTRICAL KEY NOTES AND SPECIFICATIONS-NO SCALE 3



PROVIDE AND INSTALL ONE (1) 24 GA., 4 TWISTED-PAIR, CATEGORY-FIVE (CAT5) DATA CABLE WITH MODULAR COMBO RJ-11/ RJ-45 JACK AT MANAGER'S OFFICE. CABLE TO BE RUN FROM JACK TO DATA HUB LOCATION WITH 6' LEFT COILED ABOVE CEILING FOR INSTALLATION TO DATA HUB. AN RJ-45 MALE FITTING SHOULD BE CRIMPED ON THIS END. DOLLAR GENERAL STORE OPENING TEAM WILL MAKE FINAL CONNECTION INTO THE DATA HUB.

OFFICE LAYOUT WILL VARY PER PROTOTYPE. ADJUST ACCORDINGLY.

OFFICE ENLARGEMENT PLAN - SCALE: 1/4"=1' 4



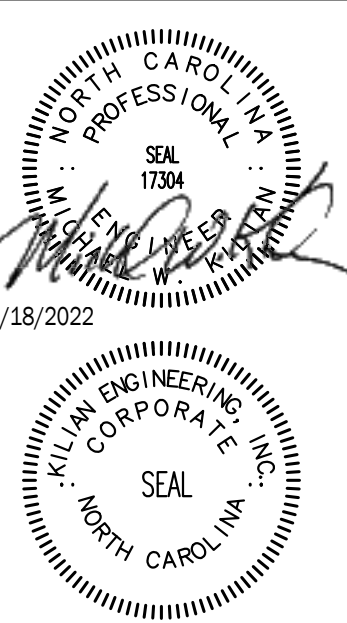
NOTE:  
PLAN IS DIAGRAMIC ONLY - HOLD CONDUIT TIGHT TO EXPOSED MAIN GIRTS AND RUN AS HIGH AS POSSIBLE ALONG PERIMETER WALLS TO RECEIVING AREA.

CABLE TRAY PLAN AND CONDUIT DIAGRAM- SCALE: 1/16"=1' 5

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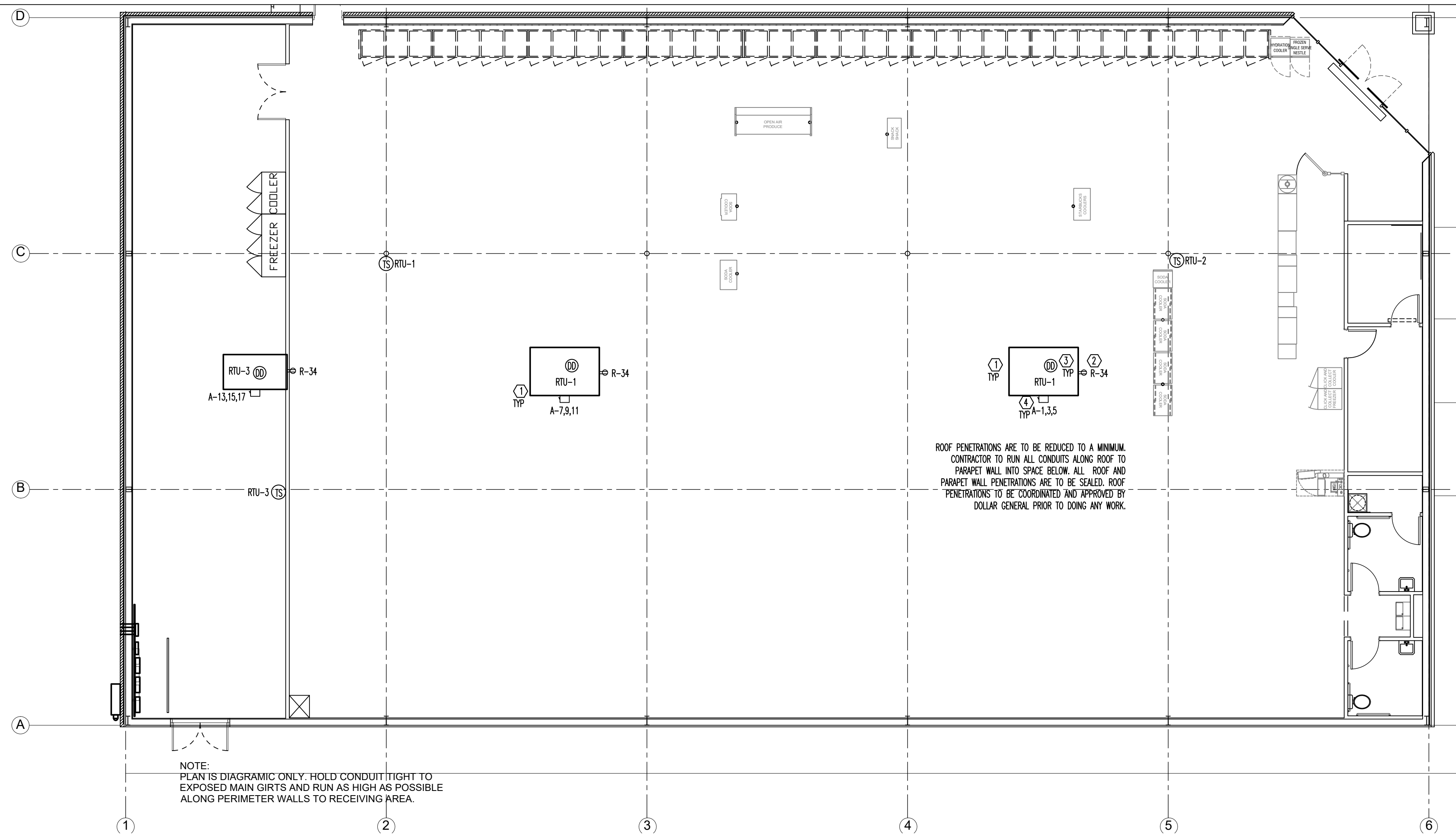
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**DOLLAR GENERAL**  
STORE # 23680  
MAMERS ROAD  
LILLINGTON, NC

JOB NUMBER  
22223  
DRAWN BY  
REW  
DATE  
04/18/2022  
REVISIONS

SHEET NUMBER  
**E1.2**



ROOF POWER PLAN - SCALE: 1/8"=1' 1

LEGEND	
SYMB	DESCRIPTION
	BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592
	COMMERCIAL GRADE PUSH BUTTON
	125V NEMA 5-20R DUPLEX. PANEL/CIRCUIT IN PANEL
	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
	125V NEMA 5-20R QUAD
	DISCONNECT
	BLACK MAGIC POWER POLE
	PHONE JACK
	RJ-11, RJ-45 DATA JACK, PHONE COMBO
	A-23 PANEL/CIRCUIT IN PANEL
	PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW
	20 AMP TOGGLE SWITCH
	NIGHT LIGHT CIRCUIT

ELECTRICAL LEGEND-NO SCALE 2

- ### ELECTRICAL KEYED NOTES
- LOCATIONS SHOWN FOR MECHANICAL UNITS ARE ONLY APPROXIMATE. CONTRACTOR MUST CONSULT MECHANICAL OR STRUCTURAL DRAWINGS TO DETERMINE ACTUAL UNIT LOCATIONS. PROVIDE 1/2" C. PENETRATION THRU ROOF WITHIN FOOTPRINT OF UNIT FOR USE WITH CONTROL WIRING TO UNIT BY OTHERS. PROVIDE PROPER WATERSEAL. (TYPICAL)
  - FACTORY MOUNTED POWERED CONVENIENCE OUTLET. FIELD VERIFY THAT OUTLET IS POWERED. WIRE ALL WITH THIS NOTE TO CIRCUIT R-34 IF THEY ARE NOT POWERED.
  - PHOTOELECTRIC DUCT DETECTOR WITH HOUSING. TIE TO LED READOUT. STAND ALONE DEVICE, 120V. SIMPLEX #4098-9687 IS SPECIFIED WITH 4098-9842 CONTROL STATION. PROVIDE ONE DEVICE PER UNIT. MOUNT DEVICE IN SUPPLY AIR DUCTWORK. DEVICE SHALL BE PROVIDED AND WIRED TO THE CONTROL STATION BY THE ELECTRICAL CONTRACTOR. HIRE THE MECHANICAL CONTRACTOR FOR INSTALLATION IN DUCTWORK & CONNECTION TO SHUTDOWN CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS AND 120V POWER. DO NOT POWER DUCT DETECTORS FROM HVAC UNIT LOW VOLTAGE. PLACE ANY REQUIRED LABELING ON CEILING TILE DIRECTLY BELOW UNIT. RUN CONDUIT & WIRE UNDERGROUND FROM UNIT TO INSIDE OF SPACE.
  - MOUNT DISCONNECT SWITCH AT UNIT AS DESCRIBED IN GENERAL NOTE 1 ON THIS SHEET.

ELECTRICAL KEY NOTES -NO SCALE 3

HVAC UNIT WIRING TABLE												
UNIT	WIRE	COND	DISC	FUSE	ENCL	PH	VOLT	GND	BRKR	LOAD	CFM	TONS
RTU-1	#1	2"	200A-3P	125A	NEMA 3R	3Φ	208	#6	125A-3P	44,610	4,000	10.0
RTU-2	#1	2"	200A-3P	125A	NEMA 3R	3Φ	208	#6	125A-3P	44,610	4,000	10.0
RTU-3	#8	1 1/4"	60A-3P	60A	NEMA 3R	3Φ	208	#10	60A-3P	19050	2,000	5.0
EF-1	#12	3/4"	MOTOR RATED SWITCH		NEMA 1	1Φ	120	#12	W/ LIGHTS	50	75	--
EF-2	#12	3/4"	MOTOR RATED SWITCH		NEMA 1	1Φ	120	#12	20A-1P	50	75	--

TABLE NOTES:

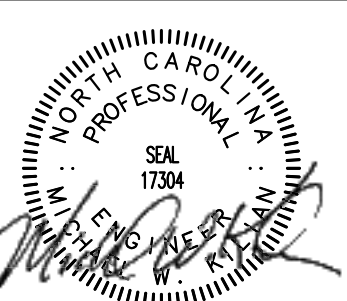
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.
- PROVIDE NEUTRALS ON AS REQUIRED BASIS, FIELD VERIFY.
- ALL DISCONNECTS TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE, SUBMIT SHOP DRAWINGS. BUSSMAN FRN-R-(AMP) IS SPECIFIED.

HVAC UNIT WIRING TABLE - NO SCALE 4

ISSUED FROM:  
 WILMINGTON OFFICE  
 910.531.8899  
 211 East Ninth Street  
 Wilmington, NC 28401  
 WILSON OFFICE  
 252.292.2700  
 211 East Ninth Street  
 Wilmington, NC 28401  
 Fax: 252.292.2700

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**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NC

JOB NUMBER  
 22223  
 DRAWN BY  
 REW  
 DATE  
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 REVISIONS

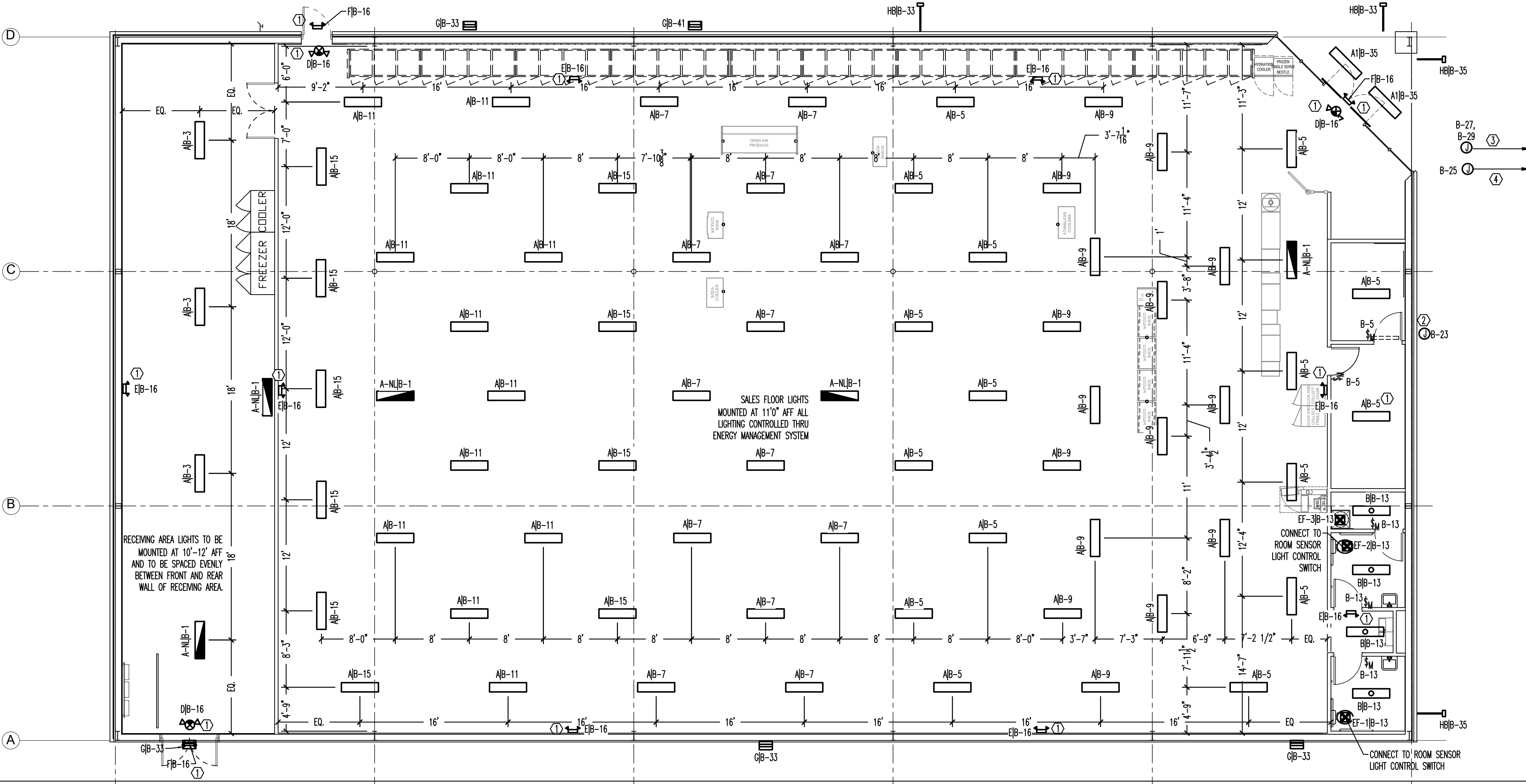
SHEET NUMBER  
**E1.3**



LIGHTING PLAN HEX NOTES

- 1. EMERGENCY/EXIT SIGNS AND LIGHTS: INSTALL EMERGENCY LIGHTS AND EXIT SIGNS (CENTERED AT 10'6" AFF TO BE ABOVE FIXTURES AND MERCHANDISE)
2. COORDINATE BUILDING SIGN SIZE WITH DOLLAR GENERAL SIGN DEPARTMENT BY EMAILING TO SIGN@DOLLARGENERAL.COM WIRE ON CIRCUIT B-23. LOCATE BOX HIGH ON WALL 12" LEFT FROM CENTER OF BUILDING FOR 26" SIGNS AND 16" LEFT FROM CENTER OF BUILDING FOR 33" SIGNS. SEE ELEVATIONS.
3. 1" PVC SCH. 40 UNDERGROUND CIRCUITS TO SITE LIGHTING B-27-B-29.
4. Pylon sign, 1" PVC SCH 40 UNDERGROUND TO SIGN. B-25.

ALL EXTERIOR LIGHTING IS RUN THROUGH EMS PANEL SEE ELEVATIONS FOR MOUNTING HEIGHTS



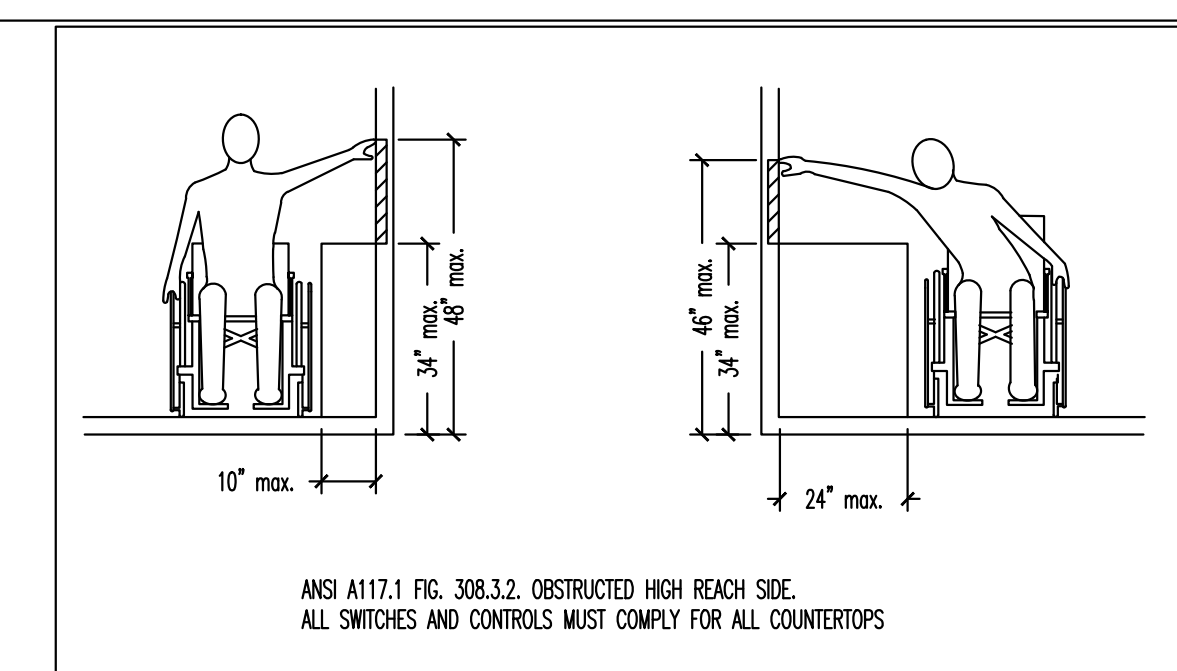
LIGHTING PLAN - SCALE: 1/8"=1' 1

ELECTRICAL DESIGNER'S STATEMENT table with columns: LIGHTING SCHEDULE, LAMP TYPE, NUMBER OF LAMPS PER FIXTURE, BALLAST TYPE, NUMBER OF BALLASTS IN FIXTURE, TOTAL WATTAGE PER FIXTURE, TOTAL INTERIOR WATTAGE, OCCUPANCY, AREA (FT^2), ALLOWANCE (w/ft^2), MAX WATTAGE ALLOWED.

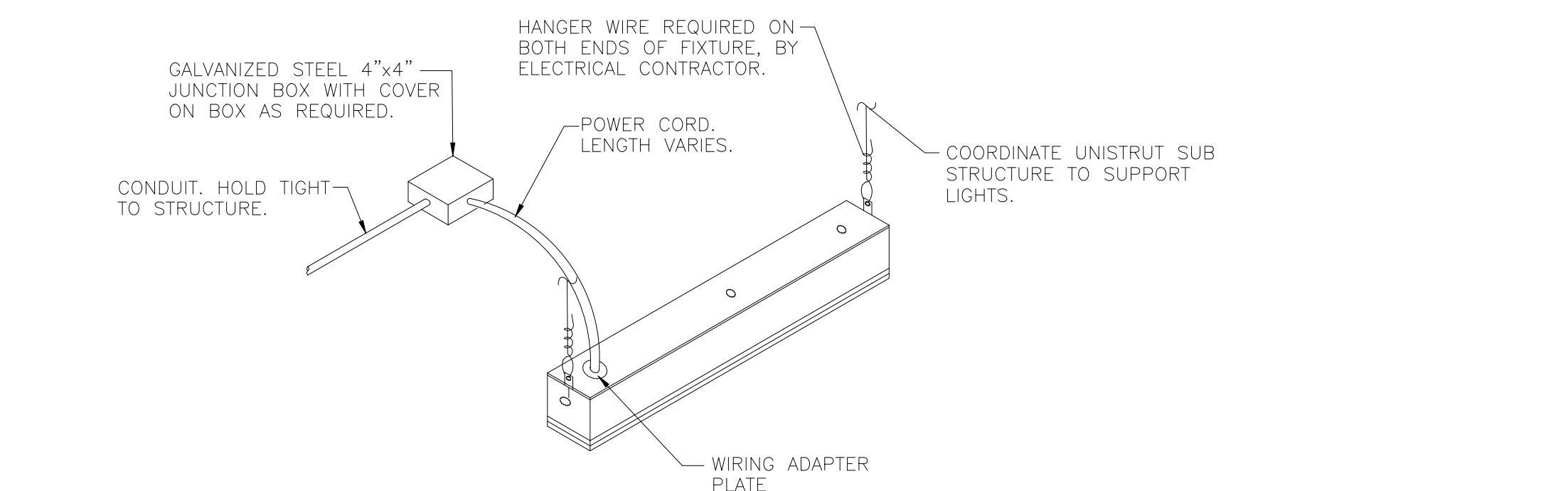
EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS) and BESTOWER STATEMENT.

FOR THE ADDITIONAL PRESCRIPTIVE REQUIREMENT REQUIRED BY C406 OF 2018 NORTH CAROLINA ENERGY CONSERVATION CODE, WE ARE CHOOSING C406.3 - REDUCED LIGHTING POWER DENSITY.

GENERAL ELECTRICAL NOTES 5
1. THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS.
2. PROVIDE MEANS TO FURNISH AND INSTALL THE ELECTRICAL CONTRACTOR SHALL ALSO INSTALL MATERIALS AND EQUIPMENT FURNISHED BY OTHERS...
3. WORKMANSHIP SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD PRACTICE FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING."
4. ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE ELECTRICAL CONTRACTOR AT AN APPROVED LOCATION...
5. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
6. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS...
7. GROUNDING AND BONDING SHALL BE PER NEC ARTICLE 250. THE RACEWAY SYSTEM SHALL NOT BE RELIED UPON FOR GROUNDING CONTINUITY...
8. CONDUCTORS, FUSES, CIRCUIT BREAKERS, AND DISCONNECT SWITCHES SHOWN ON THESE PLANS HAVE THE SIZE FOR THE SPECIFIED EQUIPMENT...
9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, RECEPTILES, TERMINALS, ETC. UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND CONNECTIONS...
10. ALL EXTERIOR LUMINAIRES > 100W MUST HAVE A MINIMUM EFFICACY OF 60 LUMENS/WATT



ANSI A17.1 HIGH SIDE REACH DETAIL-NO SCALE 6



TYPICAL LED FIXTURE MOUNTING DETAIL - NO SCALE 2

LIGHT FIXTURE SCHEDULE table with columns: SYMBOL, MARK, DESCRIPTION, TYPE, WATTAGE, QTY, CCT, VOLTAGE, INPUT WATTAGE, MOUNTING, QTY., REMARKS, MFG, MODEL.

1. FIXTURES LABELED FOR EMERGENCY USE SHALL HAVE BATTERY FOR 90 MINUTE ILLUMINATION OF TWO (2) LAMPS
2. WET LOCATION LISTED
3. PHOTOCELL CONTROLLED
4. FULL CUT OFF

LIGHTING SCHEDULE - NO SCALE 3

ELECTRICAL DESIGNER'S STATEMENT 4

ISSUED FROM: WILMINGTON OFFICE
WILMINGTON, NC 28401
PHONE: 910.531.8999
FAX: 910.531.8999

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P.L.L.C.

Kilian Engineering, Inc.
Engineering
1511 W. HUNTER DRIVE
WILMINGTON, NC 28403
PHONE: 910.438.8778

Professional Engineer Seal for Robert C. Kilian, No. 1734, State of North Carolina.

DOLLAR GENERAL
STORE # 23680
MAMERS ROAD
LILLINGTON, NC
JOB NUMBER 22223
DRAWN BY REW
DATE 04/18/2022
REVISIONS
SHEET NUMBER E2

PANEL A								
CKT	LOAD	BKR	LOAD KVA	PH	LOAD KVA	BKR	LOAD	CKT
1			14.87	A	0.10	20/1	AUTOMATIC DOOR	2
3	RTU-1	125/3	14.87	B	0.36	20/1	TELEPHONE BOARD/BUZZER	4
5			14.87	C	0.18	20/1	EMERGENCY MANAGEMENT	6
7	RTU-2	125/3	14.87	A	0.18	20/1	OUTDOOR HVAC RECEPT.	8
9			6.35	B	0.00	20/1	SPARE	10
11			14.87	C	0.00	20/1	SPARE	12
13			6.35	A	0.10	20/1	EXHAUST FAN	14
15	RTU-3	60/3	6.35	B	0.10	20/1	EXHAUST FAN	16
17			6.35	C	0.50	20/1	INTERFACE EQUIP.	18
19	IRRIGATION CONTROL PANEL RECEPT.	20/1	0.18	A	0.50	20/1	VSAT DATA HUB EQUIPMENT	20
21	HOT BOX CIRCUIT*	20/1	0.50	B	0.96	20/1	CCTV EQUIP.	22
23	SHOW WINDOW	20/1	0.36	C	0.92	20/1	CLICK AND COLLECT FREEZER/COOLER	24
25	WATER HEATER	20/1	1.65	A	0.00	20/1	SPARE	26
27	SPARE	20/1	0.00	B	0.00	20/1	SPARE	28
29	DRINKING FOUNTAIN	20/1	0.50	C	0.00	20/1	SPARE	30
31	OUTDOOR ICE MERCHANDISER	20/1	1.20	A	0.00	20/1	SPARE	32
33	HIGH KIOSK	20/1	1.20	B	0.00	20/1	SPARE	34
35	SODA COOLERS	20/1	0.96	C	0.00	20/1	SPARE	36
37	DRINK COOLERS	20/1	1.60	A	0.00	20/1	SPARE	38
39	SODA COOLERS	20/1	1.60	B	0.00	20/1	SPARE	40
41	SPARE	20/1	0.00	C	0.00	20/1	SPARE	42
			KVA	PH	AMPS			
			41.6	A	347			
			40.8	B	340			
			39.5	C	329			
VOLTAGE/PHASE			208Y/120V, 3P, 4W					
BUS RATING			400A					
MAIN CIRCUIT BREAKER RATING			400A					
AIC RATING			22K					
SERVICE ENTRANCE RATED			YES					
ENCLOSURE			NEMA 1					
MOUNTING			SURFACE					

\* VERIFY BREAKER SIZE PRIOR TO INSTALLATION  
NOTE: CIRCLED CIRCUITS REPRESENT BREAKER LOCKS

PANEL R								
CKT	LOAD	BKR	LOAD KVA	PH	LOAD KVA	BKR	LOAD	CKT
1	A-1-A REACH IN DAIRY CASE	15/2	1.30	A	3.90	40/2	A-2-A REACH IN FROZEN CASE	2
3			1.30	B	3.90			4
5	A-1-B REACH IN DAIRY CASE	15/2	1.30	C	3.20	40/2	A-2-B REACH IN FROZEN CASE	6
7			1.30	A	3.20			8
9	A-1-C REACH IN DAIRY CASE	15/2	1.30	B	3.20	40/2	A-2-C REACH IN FROZEN CASE	10
11			1.30	C	3.20			12
13	A-1-D REACH IN DAIRY CASE	15/2	1.30	A	2.60	25/2	A-3 REACH IN FROZEN CASE	14
15			1.30	B	2.60			16
17	72" COOLER	20/1	1.15	C	0.92		72" FREEZER	18
19	PRODUCE COOLER	20/1	1.15	A	0.92			20
21			1.30	B	1.66			22
23	COOLER	15/2	1.30	C	1.66	20/2	PRODUCE COOLER	24
25	SPARE	20/1	0.00	A	0.00	20/1	SPARE	26
27	SPARE	20/1	0.00	B	0.00	20/1	SPARE	28
29	SPARE	20/1	0.00	C	0.00	20/1	SPARE	30
31	SPARE	20/1	0.00	A	0.00	20/1	SPARE	32
33	SPARE	20/1	0.00	B	0.36	20/1	SERVICE RECEPT. ON ROOF	34
35	SPARE	20/1	0.00	C	0.00	20/1	SPARE	36
37	SPARE	20/1	0.00	A	0.00	20/1	SPARE	38
39	SPARE	20/1	0.00	B	0.00	20/1	SPARE	40
41	SPARE	20/1	0.00	C	0.00	20/1	SPARE	42
			KVA	PH	AMPS			
			15.7	A	131			
			16.9	B	141			
			14.0	C	117			
VOLTAGE/PHASE			208Y/120V, 3P, 4W					
BUS RATING			200A					
MAIN CIRCUIT BREAKER RATING			200A					
AIC RATING			22K					
SERVICE ENTRANCE RATED			YES					
ENCLOSURE			NEMA 1					
MOUNTING			SURFACE					

NOTE: CIRCLED CIRCUITS REPRESENT BREAKER LOCKS

PANEL B								
CKT	LOAD	BKR	LOAD KVA	PH	LOAD KVA	BKR	LOAD	CKT
1	NIGHT LIGHTS	20/1	0.18	A	0.00	20/1	A-2-A REACH IN FROZEN CASE	2
3	RECEIVING LIGHTS	20/1	0.14	B	0.50	20/1	SECURITY RECEPT.	4
5	70% SALES LIGHTS ROWS 5&6	20/1	0.63	C	0.54	20/1	OFFICE RECEPT.	6
7	70% SALES LIGHTS ROWS 5&6	20/1	0.27	A	0.54	20/1	BREAK ROOM RECEPT.	8
9	70% SALES LIGHTS ROWS 1&4	20/1	0.54	B	0.00	20/1	SPARE	10
11	70% SALES LIGHTS ROWS 8&9	20/1	0.45	C	0.00	20/1	SPARE	12
13	BREAK ROOM/OFFICE/RR LIGHTS	20/1	0.15	A	1.09	20/1	BULKHEAD RECEPT.	14
15	30% SALES LIGHTS ROWS 7&10	20/1	0.45	B	0.05	20/1	EMERGENCY EXIT LIGHTS	16
17	70% SALES LIGHTS ROWS 12&15	20/1	0.59	C	0.00	20/1	SPARE	18
19	SPARE	20/1	0.00	A	0.00	20/1	SPARE	20
21	SPARE	20/1	0.00	B	0.00	20/1	SPARE	22
23	BUILDING SIGN	20/1	0.90	C	0.00	20/1	SPARE	24
25	PYLON SIGN	20/1	0.90	A	0.00	20/1	SPARE	26
27	SITE LIGHTING	20/1	0.30	B	0.00	20/1	SPARE	28
29	SITE LIGHTING	20/1	1.40	C	1.20	20/1	POWER TERMINAL BROWN	30
31	SPARE	20/1	0.00	A	1.20	20/1	POWER TERMINAL BROWN	32
33	LEFT SIDE EXT. WALL LIGHTS	20/1	0.14	B	1.20	20/1	POWER TERMINAL GREEN	34
35	FRONT EXT. WALL/CANDY LIGHTS	20/1	0.58	C	1.20	20/1	POWER TERMINAL GREEN	36
37	SPARE	20/1	0.00	A	1.20	20/1	POWER TERMINAL GREEN	38
39	SPARE	20/1	0.00	B	1.20	20/1	POWER TERMINAL GREEN	40
41	EXTERIOR BUS/DOWN	20/1	0.05	C	1.20	20/1	POWER TERMINAL BROWN	42
43	SPARE	20/1	0.00	A	0.00	20/1	SPARE	44
45	SPARE	20/1	0.00	B	0.00	20/1	SPARE	46
47	SPARE	20/1	0.00	C	0.00	20/1	SPARE	48
49	SPARE	20/1	0.00	A	0.00	20/1	SPARE	50
51	SPARE	20/1	0.00	B	0.18	20/1	DISPLAY LIGHT	52
53	SPARE	20/1	0.00	C	0.85	20/1	GATORADE	54
			KVA	PH	AMPS			
			5.5	A	46			
			4.7	B	39			
			9.6	C	80			
VOLTAGE/PHASE			208Y/120V, 3P, 4W					
BUS RATING			200A					
MAIN CIRCUIT BREAKER RATING			200A					
AIC RATING			22K					
SERVICE ENTRANCE RATED			YES					
ENCLOSURE			NEMA 1					
MOUNTING			SURFACE					

NOTE: CIRCLED CIRCUITS REPRESENT BREAKER LOCKS

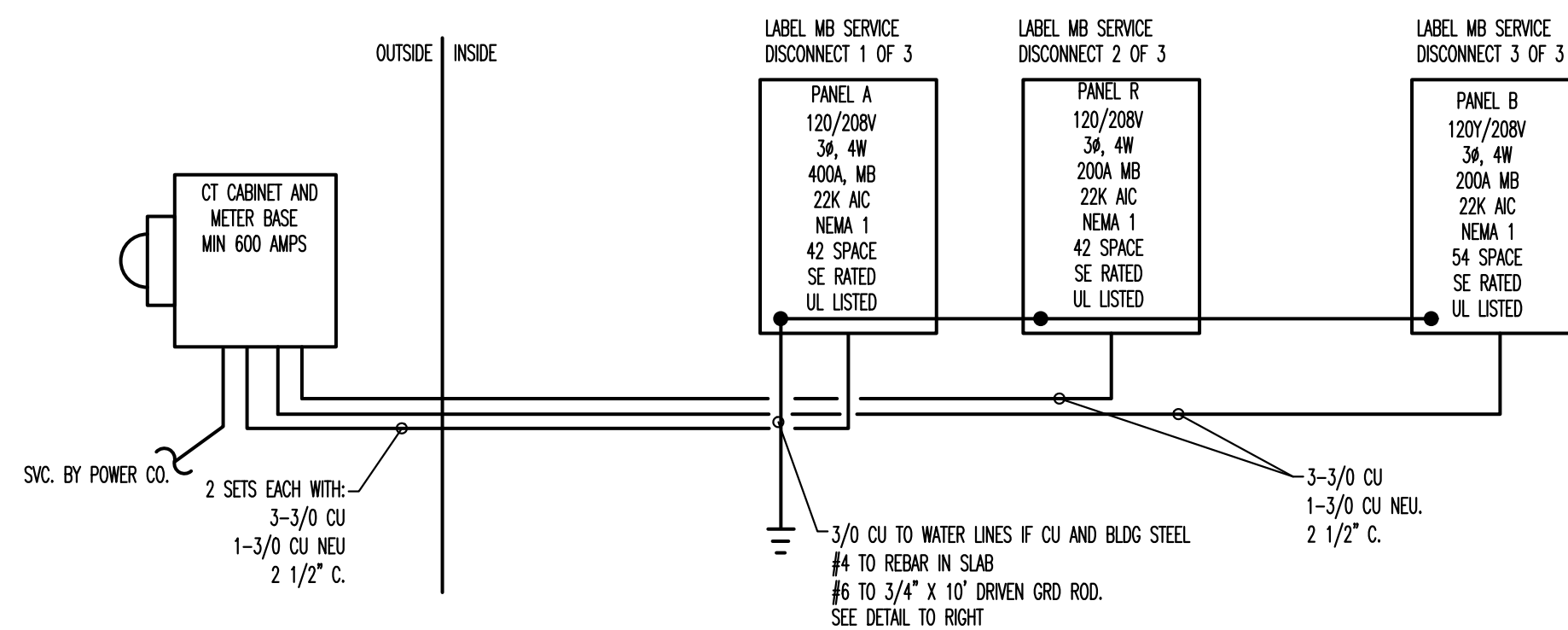
EQUIPMENT CONNECTION SCHEDULE (SEE SHEET E1.2 FOR COOLERS/FREEZERS)											
SYMBOL	DESCRIPTION	FURN. BY	KVA	VOLT/PH	NCA	MDCP	DISC	AWG	EGG	COND	NOTES
RTU 1-2	10 TON ROOF TOP UNITS	M. C.	44.98	208/3	124.0	125	200	#1	#6	2"	1, 2, 3
RTU-3	3 TON ROOF TOP UNITS	M. C.	17.63	208/3	49.0	50	60	#8	#10	1"	1, 2, 3
P-11	WATER HEATERS	P. C.	1.65	115/1	13	20	30	#12	#12	3/4"	1, 2, 3

- TABLE NOTES:
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.
  - PROVIDE NEUTRALS ON AS REQUIRED BASIS, FIELD VERIFY.
  - ALL DISCONNECTS TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE. SUBMIT SHOP DRAWINGS. BUSSMAN FRN-R (-AMP) IS SPECIFIED.

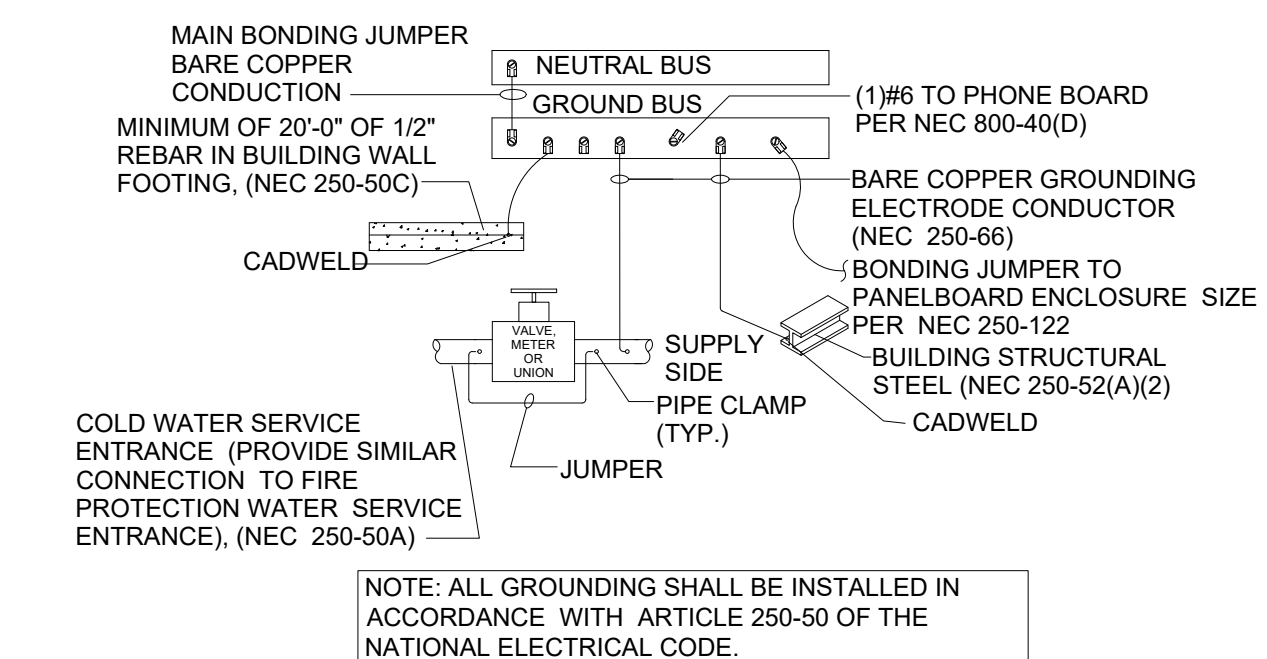
NEC ELECTRIC DEMAND SUMMARY 208Y/120V, 3P, 4W							
EQUIPMENT	DEMAND FACTOR	KVA			LOAD KVA	NEC REFERENCE	NOTES/CALCULATIONS
		A	B	C			
LIGHTING	125%	11.01	11.01	11.01	33.03	220.12	8812SF X 3VA/SF X 1.25
LIGHTING	125%	0.14	0.14	0.14	0.42	220.12	1300SF X 25VA/SF X 1.25
RECEPTACLES < 10 KVA	100%	0.78	0.78	0.78	2.34	220.44	
RECEPTACLES > 10 KVA	50%	0.00	0.00	0.00	0.00	220.44	
HVAC	100%	36.09	36.09	36.09	108.27	--	BASED ON NCA
WATER HEATER	125%	1.65	0.00	0.00	1.65	422.13	STORAGE TANK <120 GAL @ 125%
SHOW WINDOW	100%	1.40	1.40	1.40	4.20	220.43(A)	21 FT X 200 W/SF
SIGN	100%	0.00	0.90	0.90	1.80	220.14(F)	
REFRIGERATION	100%	17.30	18.50	15.60	51.40	--	
DEMAND KVA PER PHASE		68.37	68.82	65.92			
DEMAND AMPS PER PHASE		570	573	549			

THE CALCULATED LIGHTING LOAD EXCEEDS THE CONNECTED LIGHTING LOAD.

PANEL SCHEDULES AND NEC LOAD SUMMARY 1



POWER RISER DIAGRAM - NO SCALE 2



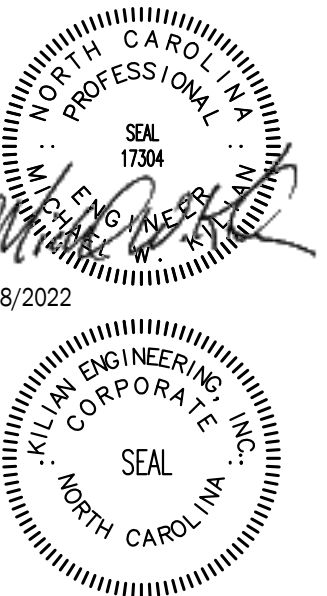
NOTE: ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250-50 OF THE NATIONAL ELECTRICAL CODE.

GROUNDING DETAIL - NO SCALE 3

ISSUED FROM:  
WILMINGTON OFFICE  
910-531-8899  
910-531-8899  
211 East Ninth Street  
Wilmington, NC 27893  
Fax: 910-531-8899

**HOOD • HERRING**  
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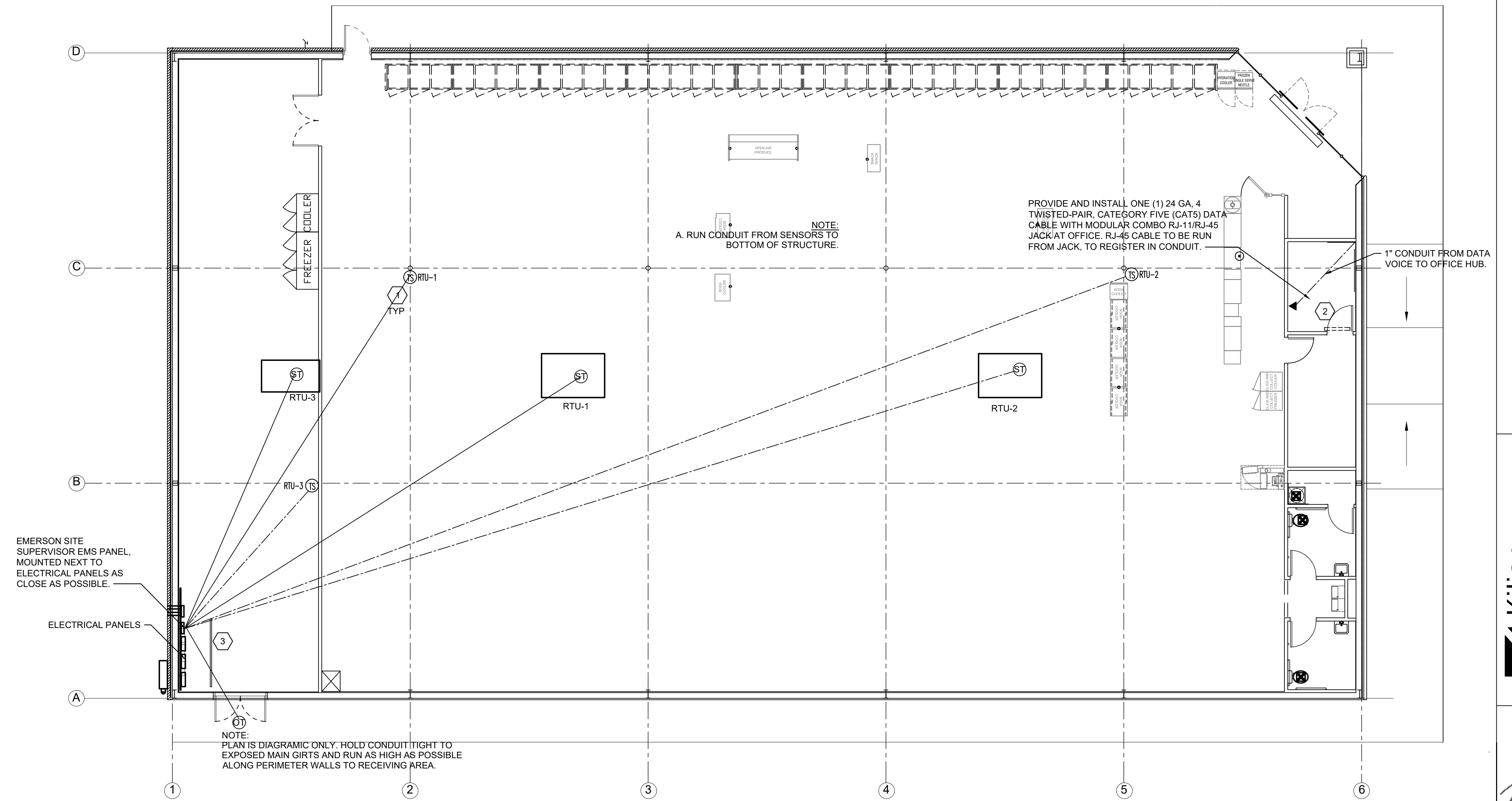
**E3**

### GENERAL NOTES

- A. REFER TO E1 FOR GENERAL CONTRACTOR RESPONSIBILITIES, E.C. MAY USE CABLE TRAY FOR LOW VOLTAGE CABLES, SEE 2/E2.
- B. RUN CONDUIT FROM SENSORS TO BOTTOM OF STRUCTURE.
- C. REFRIGERATION UNITS TO BE CONNECTED TO EMS PANEL BY DOLLAR GENERAL REFRIGERATION CONTRACTOR.

### SENSOR PLAN KEYED NOTES

1. ALWAYS INSTALL THESE SENSORS AT 8'-0" AFF IF ADDITIONAL HVAC UNITS ARE USED, ADD ADDITIONAL TEMPERATURE SENSORS "TS".
2. PHONE LINE #1 - TWO RJ-11 PORTS. ONE (1) LOCATED IN OFFICE W/RJ-45 DATA JACK COMBO AND ONE (1) AT REGISTER. 24 GA. CAT 5, 4-PAIR TWISTED WIRE ONLY. USE BLUE AND BLUE & WHITE WIRES. HOOK TO LINE #1 TERMINAL IN RJ-11 JACK EACH PHONE JACK TO HAVE DEDICATED. SEPARATE HOME RUN TO DMARC. LABEL AS "PHONE" AT THE DESTINATION AND AT DMARC. PHONE COMPANY PROVIDES FINAL HOOK UP TO DMARC. ONLY PHONE LINE #2 - RJ-11 PHONE JACK SUPPLIED AND WIRED BY CONTRACTOR.
3. EMS REFRIGERATION PANEL CX E2 400. PANEL BY OTHERS. CONNECTION FROM THIS PANEL TO HVAC AND LIGHTING PANEL BY OTHERS. ELECTRICAL CONTRACTOR TO RUN AN EMPTY 1-1/2" C. WITH PULL ROPE BETWEEN THE TWO PANELS.



EMS LOW VOLTAGE PLAN - SCALE 1/8"=1' 1

### EMERSON CONTACT

- A. PLEASE CONTACT EMERSON FOR FULL DETAILS.
- B. CONTACT TONY VERTUCA - NATIONAL ACCOUNT EXECUTIVE (404)824-9389. Tony.Vertuca@Emerson.com

### EMS GENERAL NOTES

1. EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & QTY. OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING. EMS SYSTEMS INSTALLATION GUIDE WITH PHOTOS IS AVAILABLE ON NATIONAL ACCOUNT WEBSITE. ALL QUESTIONS PERTAINING TO THE EMS PANEL, SYSTEM INSTALLATION & SETUP SHOULD BE DIRECTED TO EMERSON'S DOLLAR GENERAL SUPPORT TEAM AT 770-425-2724.
2. ALL SIGN & LIGHTING CIRCUITS MUST BE FED THROUGH THE DESIGNATED CONTACTORS AS NOTED ON THIS PAGE.
3. ALL LOW VOLTAGE HVAC & DOOR SENSORS MUST BE CONNECTED TO THE PROPER TERMINAL. 24 GA. SHIELDED (SHIELD MUST BE GROUNDED) CABLE. BELDEN #8641. 2 CONDUCTOR WIRE OR ITS EQUIVALENT IS REQUIRED.
4. COOLER & FREEZER HOME RUNS WILL BE TERMINATED AT ALL POINTS BY DOLLAR GENERAL REFRIGERATION DEPARTMENT.

### TESTING NOTES

TESTING OF HVAC UNITS THRU EMS PANEL IS ACCOMPLISHED BY SIMPLY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR (USING A BLOW DRYER OR ELECTRONIC EQUIPMENT DUSTER, AEROSOL) AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES...ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH OPERATION OF THE AHU. WHEN COMPLETE, PRESS THE HOME BUTTON TO RETURN TO THE MAIN SCREEN.

### CONTROL PANEL NOTES

1. EMS SYSTEM SHOULD BE TESTED FOR HVAC OPERATION, INTERIOR LIGHTING, EXTERIOR LIGHTING AND SIGN LIGHTING PRIOR TO CONTRACTOR'S ELECTRICAL POSSESSION DATE. USE OUTSIDE LIGHT AND SIGN LIGHT OVERRIDE FOR EXTERIOR TESTING.

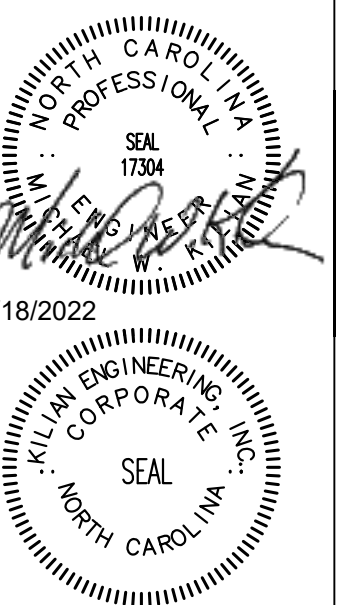
### DEVICE SCHEDULE

SYMB	DESCRIPTION	CABLE TYPE	SUPPLIER	INSTALLER	NOTES
OT	OUTDOOR AIR TEMP MOUNTED 8'-0" A.F.F.	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER RECEIVING ENTRY
ST	SUPPLY TEMP (501-1121) IN SUPPLY DUCT	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER HVAC UNIT
TS	TEMP SPACE SENSOR (809-6590) 8'-0" A.F.F.	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER HVAC UNIT ZONE
⊙	RJ-11/RJ-45 DATA JACK PHONE COMBO	CAT-5 DATA CABLE (24AWG, 4 TWISTED PAIR)	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) AT OFFICE COMPUTER CART
\$m	MOTION SENSOR SWITCH	LEVITON EZ-FIND ODS-10-IDW	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) PER RESTROOM (1) PER BREAK ROOM (1) PER OFFICE

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**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NC

JOB NUMBER: 22223  
 DRAWN BY: REW  
 DATE: 04/18/2022  
 REVISIONS:

SHEET NUMBER

**EMS1**