GENERAL CONSTRUCTION NOTES

NOTES APPLY BASED ON PROJECT WORK SCOPE

- 1 CONTRACTOR SHALL READ AND UNDERSTAND ALL NOTES INCLUDED HEREWITH AND ADHERE CAREFULLY TO THEM THROUGHOUT ALL PHASES OF THE PROJECT.
- 2 ALL NEW CONSTRUCTION SHALL BE IN STRICT COMPLIANCE WITH LOCAL BUILDING CODES, COMAR 5.02.02 CODE OF MARYLAND REGULATIONS AND MARYLAND ACCESSIBILITY CODE.
- 3 ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT. (OSHA)
- 4 FURNISH AND INSTALL ALL CONSTRUCTION, MECHANICAL, ELECTRICAL, PLUMBING, AND FOUNDATION SYSTEMS AS REQUIRED TO ACCOMMODATE THE DESIGN REQUEST OF THE THE OWNER.
- 5 DIMENSIONS GIVEN IN FIGURES ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. DIMENSIONS ARE NOT ADJUSTABLE UNLESS NOTED (+/-).
- 6 ALL DIMENSIONS ARE GIVEN FROM FINISHED WALL TO FINISHED WALL UNLESS OTHERWISE NOTED.
- 7 "EQUAL" WHEN USED SHALL MEAN AN EQUIVALENT PRODUCT OR MATERIAL AS APPROVED BY THE OWNER.
- 8 ALL HEIGHTS ARE DIMENSIONED FROM FINISHED FLOOR UNLESS OTHERWISE NOTED.
- 9 THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL TELEPHONE, DATA, ELECTRICAL, LIGHTING, PLUMBING AND RELATED EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK AND CONDUIT) AND THAT ALL REQUIRED CLEARANCE FOR INSTALLATION OR MAINTENANCE OF ABOVE EQUIPMENT IS PROVIDED.
- 10 ALL GYPSUM WALL BOARD PARTITIONS SHALL BE TAPED. BEDDED AND SANDED SMOOTH WITH NO VISIBLE JOINTS, AND ALL CORNERS SHALL RECEIVE METAL CORNER BEAD.
- 11 ALL RATED WALLS SHALL HAVE THEIR RATING MAINTAINED AND ALL NEW PENETRATIONS SEALED TO MEET CURRENT CODE REQUIREMENTS.
- 12 ALL MATERIALS FURNISHED AND INSTALLED SHALL BE FREE FROM DEFECTS. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. DURING THIS PERIOD ANY PROBLEMS DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP SHALL BE CORRECTED AT NO COST TO THE OWNER. ANY PROBLEMS THAT OCCUR DURING CONSTRUCTION SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE OWNER.
- 13 GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AS REQUIRED TO SECURE WORK TO STRUCTURE AND SHALL BE TOTALLY RESPONSIBLE FOR HIS WORK.
- 14 DURING AND AT THE COMPLETION OF THE CONTRACTORS DAILY WORK, CONTRACTORS ARE RESPONSIBLE FOR THE CLEANING UP AND REMOVAL OF ALL RUBBISH AND DEBRIS BEFORE LEAVING THE JOB SITE
- 15 THE FOLLOWING ARE STRICTLY PROHIBITED WORK AND PRACTICES
 - A. ANY COMBUSTIBLE MATERIALS ABOVE FINISHED CEILING.
 - IMPOSING ANY STRUCTURAL LOAD, TEMPORARY OR PERMANENT, ON ANY PART OF BUILDING STRUCTURE WITHOUT PRIOR WRITTEN APPROVAL
 - C. CUTTING ANY HOLES IN FLOOR SLABS, WALLS OR ROOF WITHOUT PROPER APPROVAL. BEFORE STARTING ANY UNDER SLAB WORK, CHECK TO DETERMINE IF ANY COMMON UTILITY OR OTHER UTILITY LINES EXIST WITHIN THE SPACE.
- 16 CONTRACTORS SHALL CARRY ADEQUATE LIABILITY INSURANCE AS SET FORTH BY THE OWNER AND THE LANDLORD.
- 17 A CERTIFICATE OF COMPLETION MUST BE OBTAINED UPON COMPLETION OF ALL WORK AND FINAL INSPECTIONS. THE ORIGINAL DOCUMENT TO BE SUBMITTED TO THE OWNER.
- 18 THE CONTRACTOR SHALL OBTAIN AND PAY ALL NECESSARY PERMIT COSTS AND FEES REQUIRED BY PUBLIC AUTHORITIES, UTILITY COMPANIES, AND OTHER INCURRED COST.
- 19 PROVIDE ALL INSURANCE, LICENSES, BONDING, AND RELEASE OF LIENS REQUIRED BY THE OWNER, PROVIDE COPIES OF DOCUMENTATION UPON REQUEST.
- 20 PROVIDE COMPLETE OPERATING MAINTENANCE, AND SPECIFICATION MANUALS TO THE OWNER FOR ALL EQUIPMENT WITHIN 15 DAYS OF FINAL COMPLETION OF JOB.
- 21 PROVIDE A WRITTEN LIST OF SERVICE SUB-CONTRACTORS TO THE OWNER WITHIN 15 DAYS OF JOB COMPLETION

INCLUDING NAMES, ADDRESSES, PHONE NUMBERS, AND CONTACT PERSONS FOR FUTURE SERVICE NEEDS.

- 22 THE THE OWNER'S REPRESENTATIVE AND/OR THE OWNER'S CONTRACTOR SHALL NOT BE ALLOWED TO USE OR STORE OR DISPOSE OF ANY HAZARDOUS, ASBESTOS, FLAMMABLE, EXPLOSIVE, RADIOACTIVE, TOXIC, CONTAMINATING POLLUTING MATTER OR SUBSTANCES RELATED INJURIOUS MATERIALS OR CHEMICAL
- 23 ALL INTERIOR WALLS SHALL HAVE ONE COAT OF WHITE PRIMER.
- 24 THE FOLLOWING SECURITY PROCEDURES SHALL BE IN FOLLOWED WHEN THE TENANT'S FINISH WORK BEGINS.
 - A . THE G.C. AND SUB-CONTRACTORS PERSONNEL SHALL SIGN IN WHEN THEY ARRIVE IN THE MORNING
 - B. AT ALL TIMES THEY WILL ENTER AND EXIT THROUGH THE OUTSIDE PARKING LOT DOORS.
 - C . ANY TOOL BOXES, CARTONS, ETC. THAT THE WORKERS WOULD USE TO TRANSPORT MATERIALS, ETC. ARE SUBJECT TO INSPECTION UPON DEPARTURE.
- 25 ALL WALLS SHALL BE SQUARE AND PLUMB.

REGULATED MATERIALS ON THE JOB SITE.

- 26 GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTIONS AND SECURITY OF WORK, MATERIALS, FIXTURES AND ETC. ON JOB SITE FROM LOSS OR DAMAGE FROM FIRE, THEFT OR VANDALISM.
- 28 GENERAL CONTRACTOR SHALL USE ENTRANCE PROVIDED BY THE OWNER FOR TRANSPORTING MATERIALS TO AND FROM JOB SITE. ALL EMPLOYEES OF G.C SHALL USE THESE SAME ENTRANCES. G.C. SHALL CONFINE ALL VEHICLES TO DESIGNATED AREA AS REQUIRED BY THE OWNER.
- 29 GENERAL CONTRACTOR'S BID QUOTATION SHALL INCLUDE THE USE OF EQUIPMENT & MATERIALS EXACTLY AS SPECIFIED. SUBSTITUTION REQUESTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW APPROVAL.
- 30 ALL SIGNAGE FURNISHED AND INSTALLED BY FUTURE TENANT UNLESS OTHERWISE NOTED.

CONTRACTOR NOTE: ALL TRADE WORK MUST BE PERFORMED BY RESPECTIVE MARYLAND LICENSED CONTRACTORS.

SPECIAL INSPECTIONS DEFERRED SUBMITTALS

THE FOLLOWING PROFESSIONAL SERVICES FIRM WILL PROVIDE SPECIAL INSPECTIONS FOR THIS PROJECT IN ACCORDANCE WITH JURISDICTIONAL SPECIAL INSPECTION REQUIREMENTS.

HILL-CARNES ENGINEERING ASSOCIATES, INC. 10228 GOVERNOR LANE BLVD WILLIAMSPORT, MARYLAND 21795 PHONE: 301-582-4662 FAX: 301-582-4614 ONLINE: www.hcea.com

THE FOLLOWING DRAWINGS WILL BE PROVIDED TO THE PERMIT PLAN REVIEWER UNDER A SEPARATE SUBMITTAL BY THE RESPECTIVE SUB-CONTRACTORS:

1 - PRE-ENGINEERED METAL BUILDING PLANS

2 - SIGN SHOP DRAWINGS BY TENANT SIGN VENDOR

DOLLAR GENERAL

STORE #24134 | DGHP PROTOTYPE 'C+' FLINTSTONE DRIVE | ALLEGANY COUNTY FLINTSTONE, MARYLAND 21530

		REQUIRED NATION	IAL ACCOUNT VENDOR	S		
		COMPANY	CONTACTS	PHONE #	REQUIRED ITEMS	
SITE		RAINBIRD IRRIGATION	LOCAL RAIN BIRD DISTRIBUTER	WWW.RAINBIRD.COM	IRRIGATION SYSTEMS	
RETE HING	2	EUCLID CHEMICAL COMPANY	PHIL BRANDT	877-438-3826 PBrandt@euclidchemical.com	CONCRETE POLISHING SYSTEMS	
CONCRETE CONCRETE POLISHING		RETRO-PLATE SYSTEMS	SCOTT MAXFIELD	801-641-6796 scott.maxfield@retroplatesystem.com	CONCRETE POLISHING SYSTEMS	
				704-292-5373 dollargeneral@recorddoors.com	IN,KY,MD,OH, PA,VA, WV MODEL #5100 SERIES	
STOREFRONT	100	STANLEY ACCESS TECHNOLOGIES	BRENDAN FEENEY	860-679-6435 DGDOORS@sbdinc.com	AR,AZ,CA,CO,CT,DE,IL,IA,KS,LA,MA,ME,MI,MN,MO, MODEL #DG2000 ND,NE,NH,NJ,NM,NV,NY,OK,OR,RI,SD,TX,VT,WA,WI,WY	
STOR!		ASSA ABLOY ENTRANCE SYSTEMS	ROSS MERKLING	609-528-2580 dollargeneral.besam.us@assaabloy.com	AL, FL, GA, MS, NC, SC, TN MODEL #SL500	
S IOR S	,	COOK & BOARDMAN GROUP	JUNE THOMPSON	615-964-6000 ext. 4527 dgteam@cookandboardman.com	INTERIOR DOORS AND FRAMES AL,AR,AZ,CA,CO,FL,GA,IA,KS,LA,MS,MN,MO, AND RESTROOM ACCESSORIES NE,NM,NV,OK,OR,SC,SD,TN,TX,WA,WI,WY	\vdash
DOORS INTERIOR DOORS		COOK & BOARDMAN GROUP	JOE HARRELL	336-837-0673 dgteam@cookandboardman.com	INTERIOR DOORS AND FRAMES CT,DE,IL,IN,KY,MA,MD,ME,MI,NC,NH,NJ, AND RESTROOM ACCESSORIES NY,OH,PA,RI,VA,VT,WV	
		SHERWIN WILLIAMS	LOCAL SHERWIN WILLIAMS STORE		PAINT, PRIMER, CONCRETE SEALER AND BLOCK FILLER	l
FINISHES		MC CUE CORPORATION	KEVIN O'NEILL	678-492-4026 koneill@mccue.com	TRIM KIT INCLUDES BUMPER GUARDS AND CART STOP	
		YORK	CHRIS ZINK	501-398-7008 york-dollargeneral-be@jci.com	HVAC UNITS AR,CO,IL,IN,KS,KY,MO,OH,OK,OR,TN,WA,WV	
		CARRIER	HASAN KHALIL BOB ECKWELLER	973-222-6742 hasan.khalil@carrier.com bob.eckweiler@carrier.com	HVAC UNITS AL, AZ, CA, DE, FL, GA, LA, MD, MS, NC, NM, SC, TX,VA	
HVAC		LENNOX	COLTON WHITESIDE	972-497-6652 lennoxnationalaccounts@lennoxind.com	HVAC UNITS CT,IA,MA,ME,MI,MN,ND,NE,NH,NJ,NY,PA,RI,SD,VT,WI,WY	
		ROOF CURB SYSTEMS	CLIFTON REASOR	800-683-5848 DollarGeneral@roofcurb.com	RTU CURB	
, m	, [CURBS PLUS INC.	ALLAN THRAILKILL	888-639-2872 alan.thrailkill@curbs-plus.com	RTU CURB	
HVAC RTU CURBS	9700	KCC INTERNATIONAL INC.	GREG CONRAD	800-382-2872 gconrad@kcccurbs.com	RTU CURB	
RICAL		CED - CONSOLIDATED ELECTRICAL DISTRIBUTORS WESCO	ROBERT DECKER	270-781-2229 robertd@cedbgky.com	ELECTRICAL SWITCH GEAR AR,AZ,CA,CO,IA,IN,IL,LA,KS,KY,MI,MN,MO, MS,ND,NE,NM,NV,OK,OR,SD,TX,WA,WI,WY	
ELECT	GEAR	WESCO	ANN-MARIE SHIAVITTI-SMITH LEE DUPLIN	800-244-6980 dollargeneral@wescodist.com	ELECTRICAL SWITCH GEAR AL,CT,DE,FL,GA,MA,MD,ME,NC,NH,NJ, NY,OH,PA,RI,SC,TN,VA,VT,WV	
		USLED	ROD LEEK	DGUSLED.COM	LIGHTING AL,DE,FL,GA,IA,IL,IN,KS,KY,MD,MI,MN,MO,MS, NC,ND,NE,OH,SC,SD,TN,VA,WI,WV	
<u>8</u>		LEDS	MICHAEL STRINGER	920-915-4010 DGORDERS@leds-llc.com	LIGHTING AR,AZ,CA,CO,ID,LA,NM,NV,OK,OR,TX,WA,WY	
LIGHTING		CUMBERLAND DISTRIBUTORS	RICHARD MATTHEW	ORDERFROM@ CUMBERLANDDIST.COM	LIGHTING CT,MA,ME,NH,NJ,NY,PA,RI,VT	
	\prod	D&P CUSTOM LIGHTING	NATIONAL ACCOUNT SALES	800-251-2200	CUSTOM POWER POLES	i
\GE	ΣM	CROSSCOM NATIONAL	KEN MILLER	847-850-6298 dollargeneral@crosscomnational.com	LOW VOLTAGE & VOICE/DATA CO,DE,FL,IA,IL,IN,KS,MD,ME,MI,MN,MO,ND, NE,NH,NJ,NY,OH,SD,VT,WI,WV,WY	_
LOW	SYSTE	ASD	KENNY ONDESKO	828-624-1046 dollargeneral@asd-usa.com	LOW VOLTAGE & VOICE/DATA AL,AR,AZ,CA,CT,GA,KY,LA,MA,MS,NC,NM,NV,OK,OR,PA,RI,SC,TN,TX,VA,WA	L
		GRAYBAR	JEROME BANNISTER	615-743-3202 office, 615-924-2135 cell DollarGeneral@graybar.com	CABLE TRAY	ĺ
AL		EMERSON CLIMATE TECHNOLOGIES	TONY VERTUCA NATIONAL ACCOUNT EXECUTIVE WEBSITE: http://dollargeneralbid.emerson.com	404-824-9389 USER NAME: dollargeneralbid PASSWORD: \$General1	EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & QTY. OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING.	
ELEC I KICAL		STANLEY CONVERGENT SECURITY SOLUTIONS	D'ETTA NEAVES	858-752-7821 Detta.Neaves@sbdinc.com (pre-sale bid) Al.Maier@sbdinc.com (post-award)	INTERIOR FIRE ALARM PANELS	
ш		NATI	ONAL ACCOUNT & CON	NTACT INFORMATION S	SUBJECT TO CHANGE	

ABBREVIATIONS

= ALUMINUM

= CONTROL JOINT

DEGREE

FACTORY

HANDICAP

HEAVY DUTY

HARDWARE HOLLOW METAL

ON CENTER

REQUIRED

RESTROOM

SIMILAR

= TYPICAL

POINT OF SALE

DETAIL

CONTINUOUS

ALUM.

CLG.

DEG.

FAC.

G.C.

SIM.

TYP.

=

A.D.A. = AMERICANS WITH DISABILITIES ACT

= MINIMUM CLEAR DIMENSION

DRINKING FOUNTAIN

FIRE EXTINGUISHER

EXPANSION JOINT

CONCRETE MASONRY UNIT

ELECTRICAL CONTRACTOR

ELECTRIC WATER COOLER

FIRE RETARDANT TREATED

HOLLOW CORE WOOD DOOR

GENERAL CONTRACTOR

GYPSUM WALLBOARD

MANUFACTURING(ER)

PRESSURE TREATED

= UNLESS NOTED OTHERWISE

SOLID CORE WOOD DOOR

NOT IN CONTRACT

ABOVE FINISHED FLOOR

SYMBOLS LEGEND

DETAIL MARKER, INDICATES DETAIL NUMBER

AND SHEET NUMBER WHERE IT IS LOCATED.

ELEVATION MARKER, POINTS TO AREA AND

SECTION MARKER INDICATES SECTION NUMBER

AND SHEET NUMBER WHERE IT IS LOCATED.

INDICATES ELEVATION NUMBER.

COLUMN REFERENCE MARKER

REFERENCE NOTE MARKER TO NOTE

ROOM NAME AND NUMBER MARKER.

VERTICAL ELEVATION MARKER

REVISION CLOUD AND MARKER

DOOR MARKER

FIRE EXTINGUISHER

SCHEDULE LEGEND DESCRIPTION

 $\begin{pmatrix} X \\ XXX \end{pmatrix}$

 $\begin{pmatrix} X \\ XXX \end{pmatrix}$

XXXX

ROOM NAME

100

100

FLINTSTONE, MARYLAND 21530 NEW 10,640 SQ. FT. DOLLAR GENERAL BUILDING LOCATION FLINTSTONE DRIVE

SITE PLAN

FLINTSTONE DRIVE **ALLEGANY COUNTY**

PROJECT CONTACTS

EMAIL: jim.outdoorcontractors@gmail.com

DEVELOPER

ROWLAND HOLDINGS, LLC

HANCOCK, MD 21750

PHONE: 301-582-4999

CELL: 301-491-1257

H. EUGENE HUNTER, PE

CONSULTING ENGINEER

MATTHEWS, NC 28106

PHONE: 704-574-8083

FAX: 704-442-7290

PO BOX 3210

14703 INDIAN SPRINGS ROAD

CONTACT: JIMMY ROWLAND

STRUCTURAL ENGINEER

EMAIL: ghunter@carolinarr.com

TENANT **DOLLAR GENERAL** 100 MISSION RIDGE GOODLETTSVILLE, TN 37073 TYLER NICHOL - Northeast Region PHONE: 615-855-4655 FAX: 615-855-4705 rnichol@dollargeneral.com

ARCHITECTURE STORE PLANNING INC. 3080 SENNA DRIVE MATTHEWS, NC 28105 CONTACT: RAY EDWARDS - Principal PHONE: 704-841-7288

ray@storeplanninginc.com

MECH/PLUMBING ENGINEER GEORGE W. 'BILLY' AUSTIN JR, PE CONSULTING ENGINEER 908 APPLEGATE PARKWAY WAXHAW, NC 28174 PHONE: 704-618-1959 FAX: 704-347-0093

EMAIL: baustin@shultzeg.com

ELECTRICAL

F11 POWER PLAN

E1.3 ROOF POWER PLAN

E3 ELECTRICAL PANELS

E4 ELECTRICAL SITE PLAN

E2 LIGHTING PLAN

E1.2 REFRIGERATION POWER PLAN

ELECTRICAL ENGINEER TIMOTHY A. PAYNE, PE CONSULTING ENGINEER 1005 THORNDALE ROAD INDIAN TRAIL, NC 28079 PHONE: 704-651-3425

FAX: 704-347-0093 EMAIL: tpayne@shultzeg.com

CIVIL ENGINEER TECTONICS DESIGN GROUP 10451 DOUBLE R BLVD. RENO, NV 89521 CONTACT: MATT RASMUSSEN, PE SEAN TUBMAN - PROJECT ENGINEER PHONE: 775-824-9988 EM: matt@tdg-inc.com or sean@tdg-inc.com

GEOTECHNICAL ENGINEER HILL-CARNES ENGINEERING ASSOCIATES, INC. 10228 GOVERNOR LANE BLVD WILLIAMSPORT, MARYLAND 21795 PHONE: 301-582-4662 FAX: 301-582-4614 ONLINE: www.hcea.com

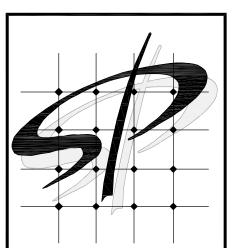
JURISDICTION ALLEGANY COUNTY MARYLAND LAND DEVELOPMENT SERVICES 701 KELLY ROAD | SUITE 109 CUMBERLAND, MD 21502 CONTACT: PATTIE L TALLEY ONLINE: www.alleganygov.org

INDEX TO DRAWINGS

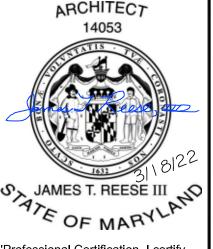
GEN	IERAL	ORIGINAL DATE	LATEST REVISION DATE		
T1	TITLE SHEET	MARCH 18, 2022	MARCH 28, 2022		
T2	LIFE SAFETY PLAN	MARCH 18, 2022			
CIVI	L	ORIGINAL DATE	LATEST REVISION DATE		
SEE	SEPARATE CIVIL ENGINEERING PLAN SET	SEE CIVIL PLAN SET	SEE CIVIL PLAN SET		
ARC	CHITECTURAL	ORIGINAL DATE	LATEST REVISION DATE		
A1	FLOOR PLAN AND DETAILS	MARCH 18, 2022			
A2	EXTERIOR ELEVATIONS & DETAILS	MARCH 18, 2022			
A3	SECTIONS & DETAILS	MARCH 18, 2022			
A4	ROOM FINISH SCHEDULE & ELEVATIONS	MARCH 18, 2022			
A5	DOOR & VESTIBULE DETAILS	MARCH 18, 2022			
A6	RESTROOM - OFFICE PLAN & DETAILS	MARCH 18, 2022			
A7	REFLECTED CEILING PLAN & DETAILS	MARCH 18, 2022			
F1	FIXTURE PLAN AND DETAILS	MARCH 18, 2022			
GS1	ROOF PLAN AND METAL BUILDING NOTES	MARCH 18, 2022			
GS2	CONCRETE SUMMARY	MARCH 18, 2022			
GS3	CONCRETE & COLUMN BASE DETAIL	MARCH 18, 2022			
STR	UCTURAL	ORIGINAL DATE	LATEST REVISION DATE		
S0.1	STATEMENT OF SPECIAL INSPECTIONS	MARCH 18, 2022			
S1	GENERAL NOTES AND SECTIONS	MARCH 18, 2022	MARCH 28, 2022		
S2	FOUNDATION PLAN AND DETAILS	MARCH 18, 2022	MARCH 28, 2022		
S3	SECTIONS AND DETAILS	MARCH 18, 2022			
S4	SECTIONS AND DETAILS	MARCH 18, 2022	MARCH 28, 2022		
PLU	MBING	ORIGINAL DATE	LATEST REVISION DATE		
P01	PLUMBING NOTES AND SCHEDULES	MARCH 18, 2022			
P02	PLUMBING PLAN AND NOTES	MARCH 18, 2022			
MEC	CHANICAL	ORIGINAL DATE	LATEST REVISION DATE		
M01	MECHANICAL NOTES AND SCHEDULES	MARCH 18, 2022			
M02	MECHANICAL PLAN AND NOTES	MARCH 18, 2022			
IVIUZ	MECHANICAL DETAILS	MARCH 18, 2022			
M03	MECHANICAL DETAILS	WAROTT 10, 2022			
M03	1 EMS LOW VOLTAGE PLAN	MARCH 18, 2022			
M03					

ORIGINAL DATE

MARCH 18, 2022



STORE PLANNING Inc 3080 SENNA DRIVE Matthews. North Carolina 2810 Phone: 704-841-7288 Fax: 704-849-6997



that these documents were prepare or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland License Number 14053 Expiration Date 12/27/2022

DATE REVISION 1 | 3-28-22 | STRUCTURAL R1

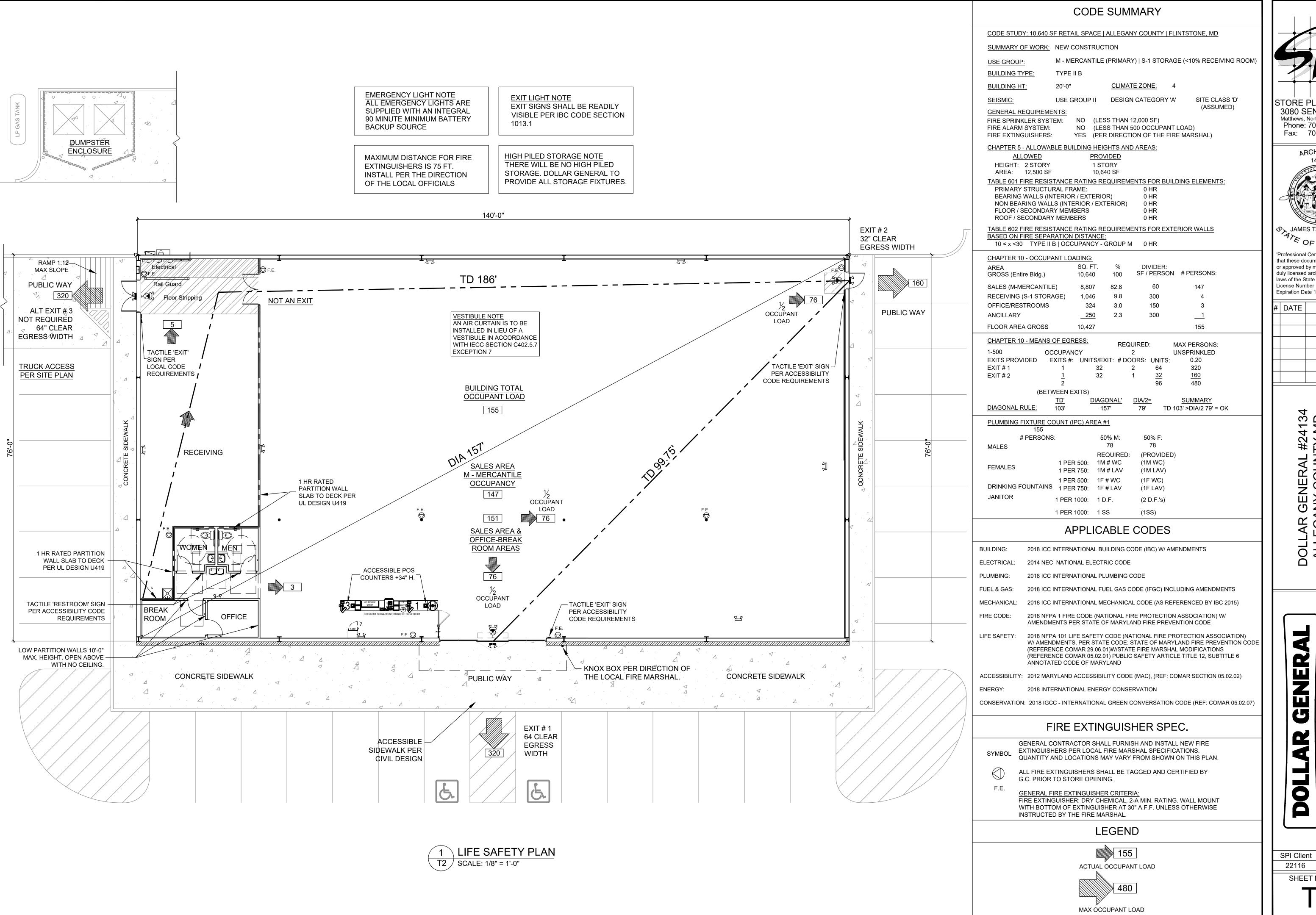
PHONE: 301-777-5951 | FAX: 301-777-5950

LATEST REVISION DATE

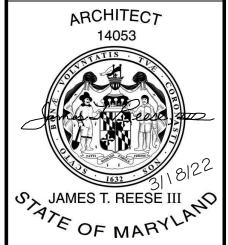
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SPI Client DATE 3-18-22 SHEET NUMBER







rofessional Certification, I certify that these documents were prepare or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland License Number 14053 Expiration Date 12/27/2022

DATE REVISION

GENEL ANY CO TONE, N

DOLLAR O ALLEGAI FLINTSTO

SHEET NUMBER

DATE

3-18-22



1/8" = 1'-0'

DOOR INSTALLATION. SEE DOOR SCHEDULE ON SHEET A4 FOR MORE INFORMATION.

duly licensed architect under the laws of the State of Maryland License Number 14053 Expiration Date 12/27/2022 # DATE REVISION

ARCHITECT

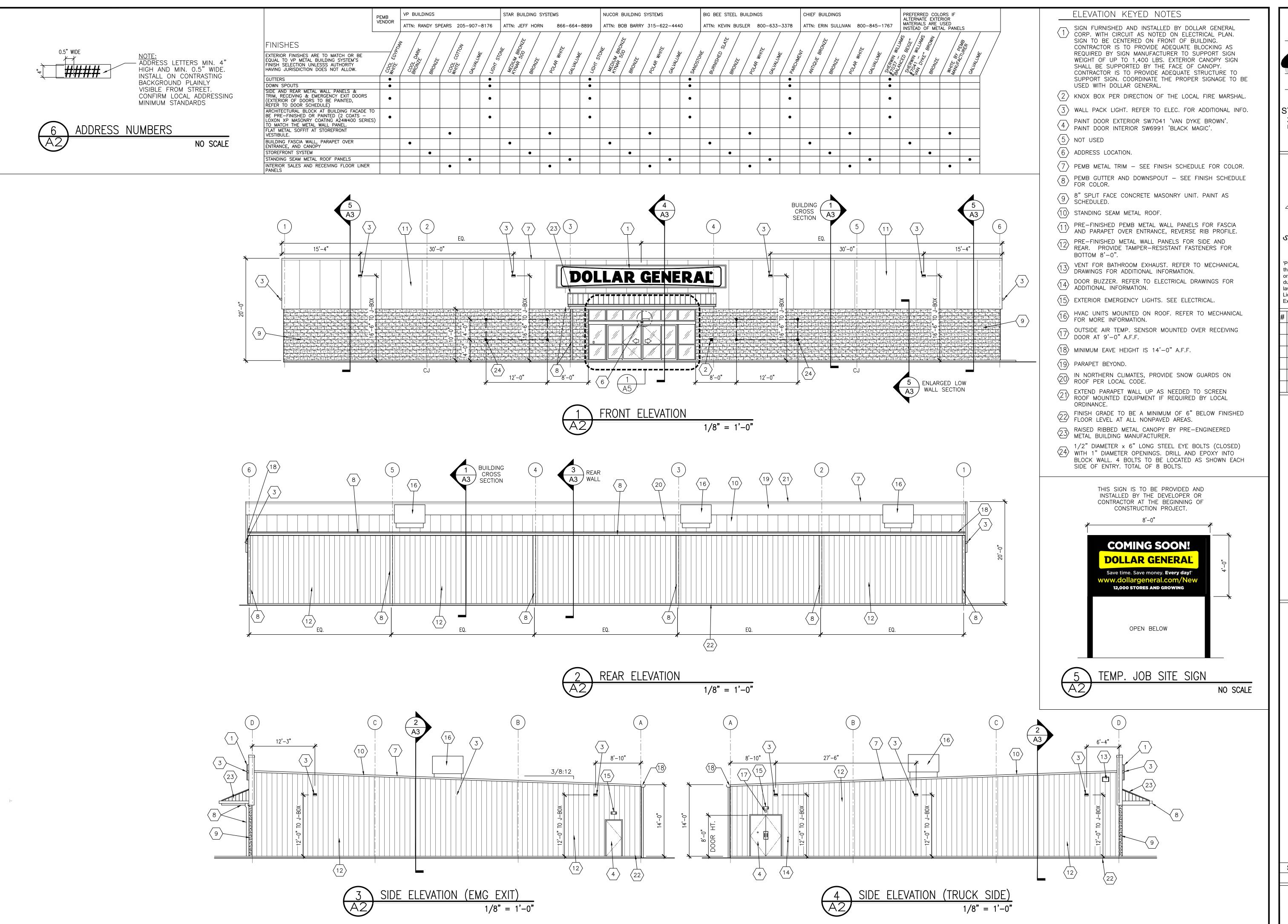
14053

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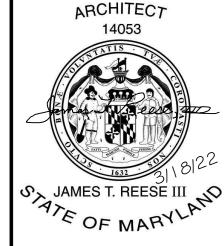
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GEI \NY ONI

DATE 3-18-22







Professional Certification, I certify that these documents were prepare or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland License Number 14053 Expiration Date 12/27/2022

DATE REVISION

DOLLAR GENEF ALLEGANY CO FLINTSTONE, M

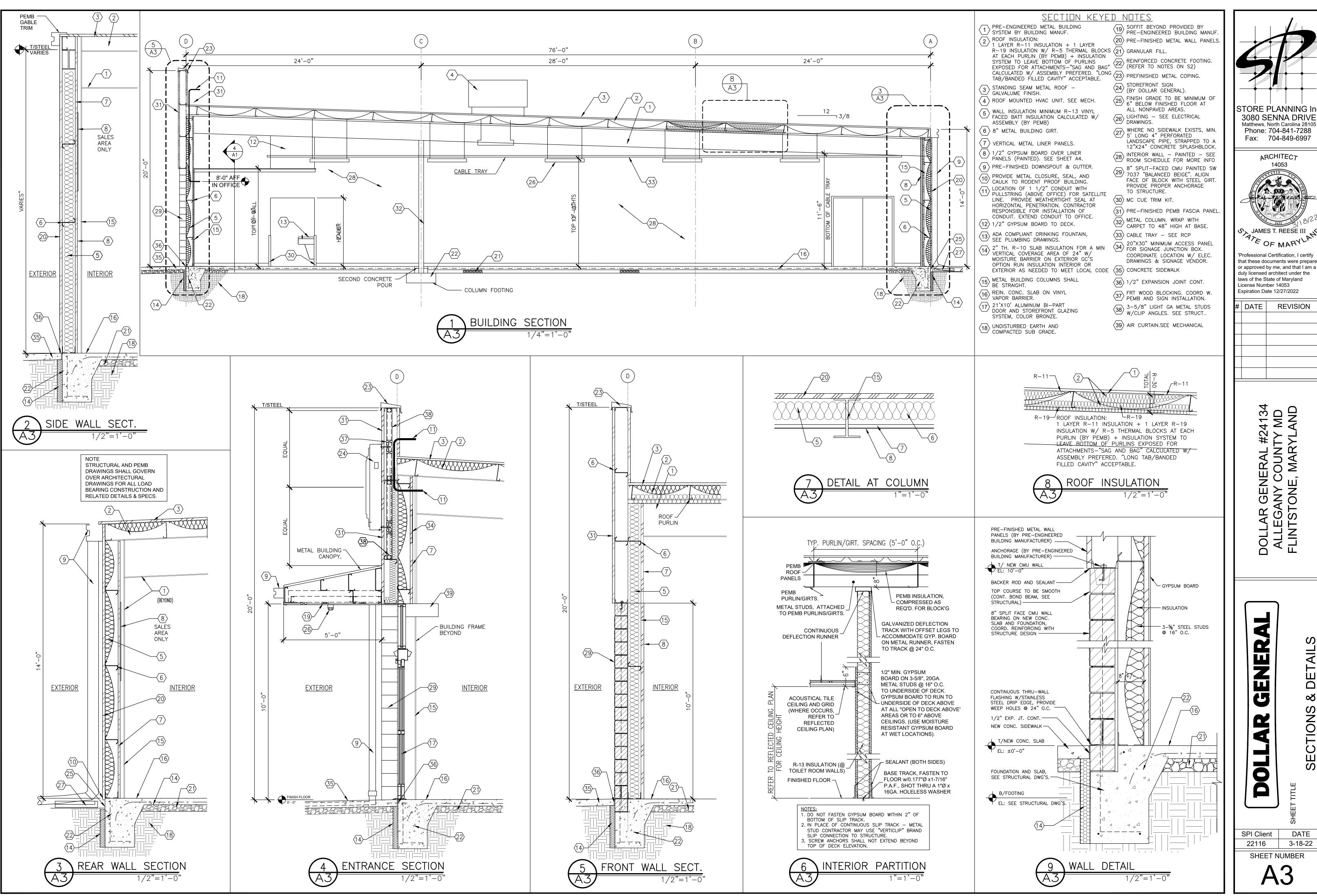


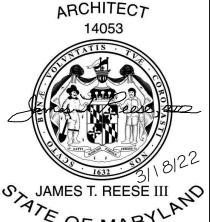
EXTERIOR

DETAIL

ELEVATIONS &

DATE SPI Client 3-18-22





ATE OF MARYLY 'Professional Certification, I certify that these documents were prepared

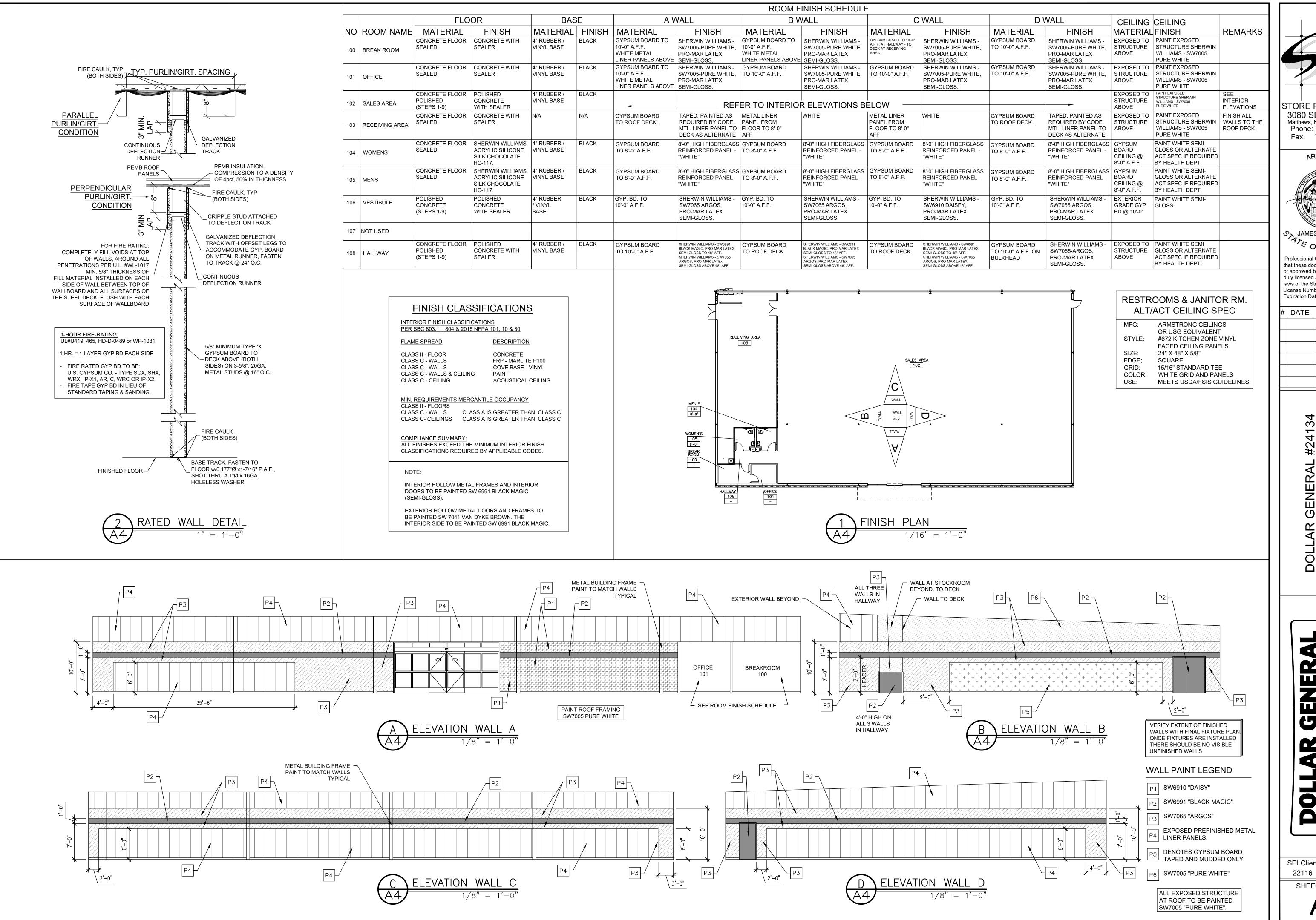
> Expiration Date 12/27/2022 # DATE REVISION

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DATE SPI Client 3-18-22

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CTIONS





Professional Certification, I certify that these documents were prepare or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland License Number 14053 Expiration Date 12/27/2022

DATE	REVISION			

GENER/

ELEVATIONS

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SCHEDULE

FINISH ROOM DATE

SPI Client 3-18-22

NOTE:

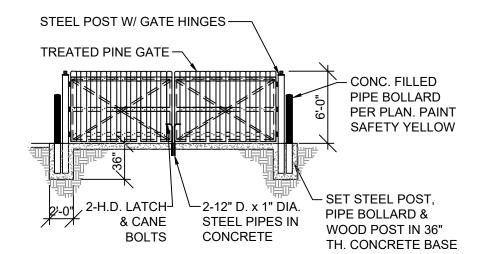
INTERIOR HOLLOW METAL FRAMES AND INTERIOR DOORS TO BE PAINTED SW 6991 BLACK MAGIC (SEMI-GLOSS).

EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE PAINTED SW 7041 VAN DYKE BROWN. THE INTERIOR SIDE TO BE PAINTED SW 6991 BLACK MAGIC.

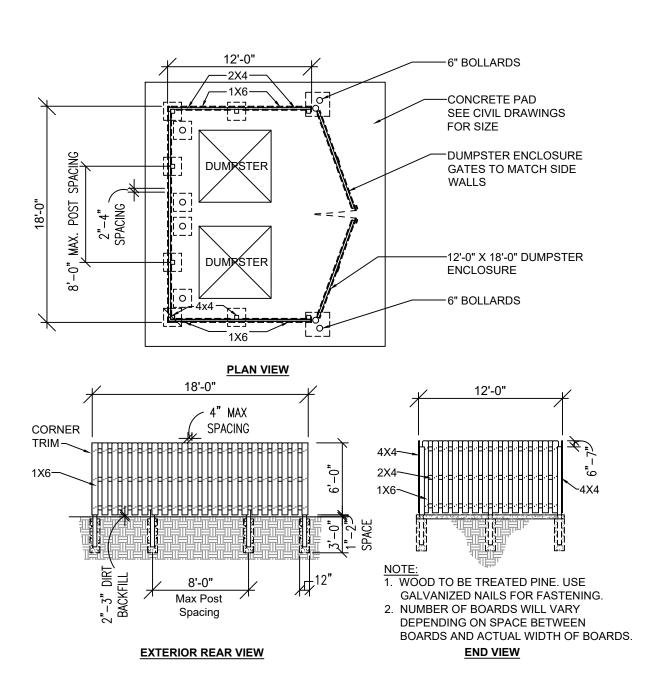
GENERAL CRITERIA
TREATED PINE (USE GALVANIZED NAILS FOR FASTENING) IF
ANY PARCEL OF LAND ADJACENT TO THE DEMISED PREMISES
IS EITHER ZONED FOR RESIDENTIAL USE OR IS ACTUALLY
BEING USED FOR RESIDENTIAL PURPOSES ("RESIDENTIAL
PROPERTY"), LESSOR SHALL CONSTRUCT A PRIVACY FENCE
IN ACCORDANCE WITH TENANT'S PROTOTYPE PLANS AND
ANY APPLICABLE ORNAMENTAL REQUIREMENTS ALONG ANY
PORTION OF THE DEMISED PREMISES BORDERING UPON
SUCH RESIDENTIAL PROPERTY.

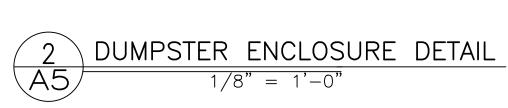
CATE SDEC

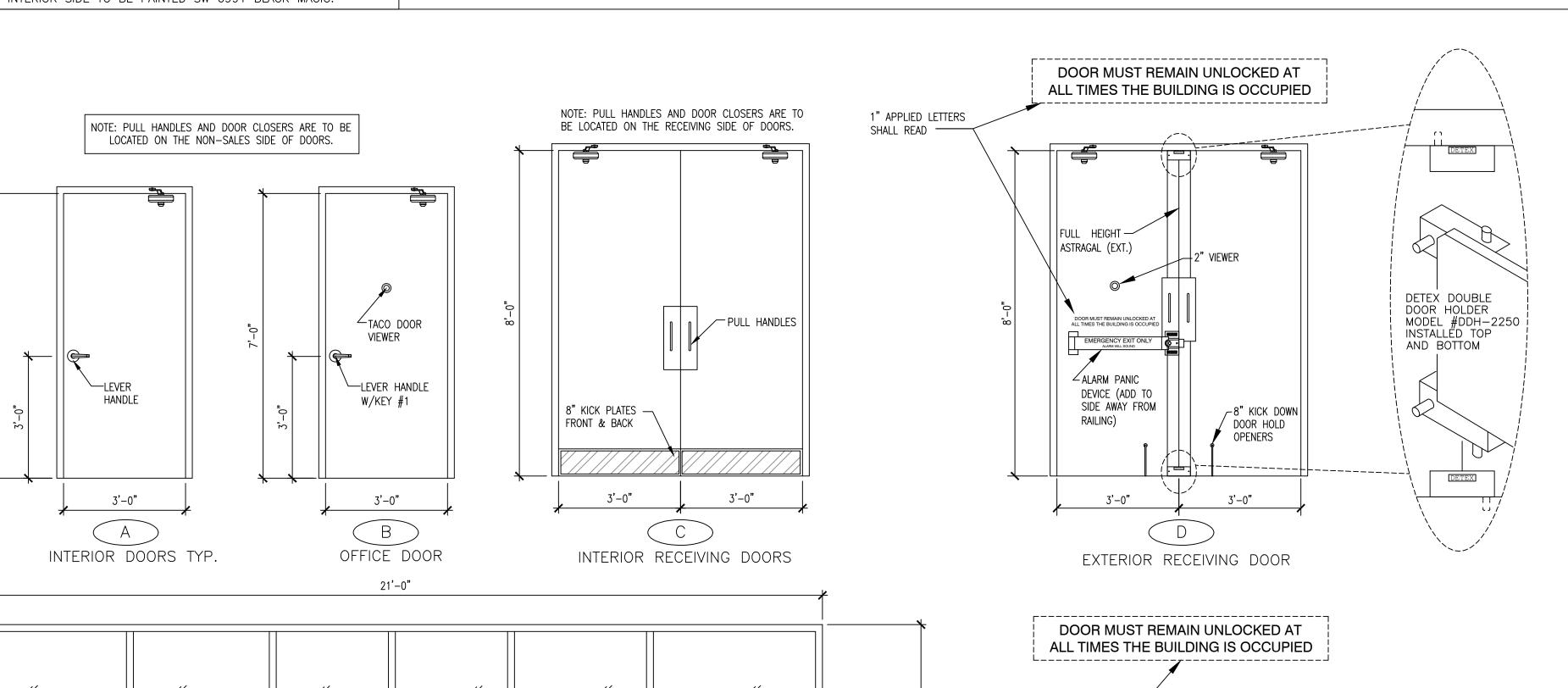
GATES W/ 2" x 2" x 3/16" GALVANIZED ANGLE FRAME & CROSS BRACING W/ 2" X 4" PT.WOOD FURRING BOLTED TO FRAME & PTSYP 1 x 6 PICKET EXTERIOR FACE (EDGES 3" OFF CONCRETE SLAB)



FRONT VIEW







TEMPERED GLASS

PER CODE

DOOR ELEVATIONS

ADDRESS #

STOREFRONT ENTRANCE

1" APPLIED LETTERS

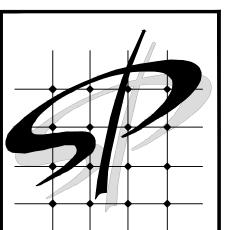
LALARM PANIC DEVICE

3**'**-0**"**

EMERG. EXIT DOOR

SHALL READ —

PULL HANDLE——



STORE PLANNING Inc 3080 SENNA DRIVE Matthews, North Carolina 28105 Phone: 704-841-7288 Fax: 704-849-6997

ARCHITECT

14053



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Expiration Date 12/27/2022

E	Expiration Date 12/27/2022							
#	DATE	REVISION						

DOLLAR GENERAL #24134 ALLEGANY COUNTY MD FLINTSTONE, MARYLAND

NERAL DOLI

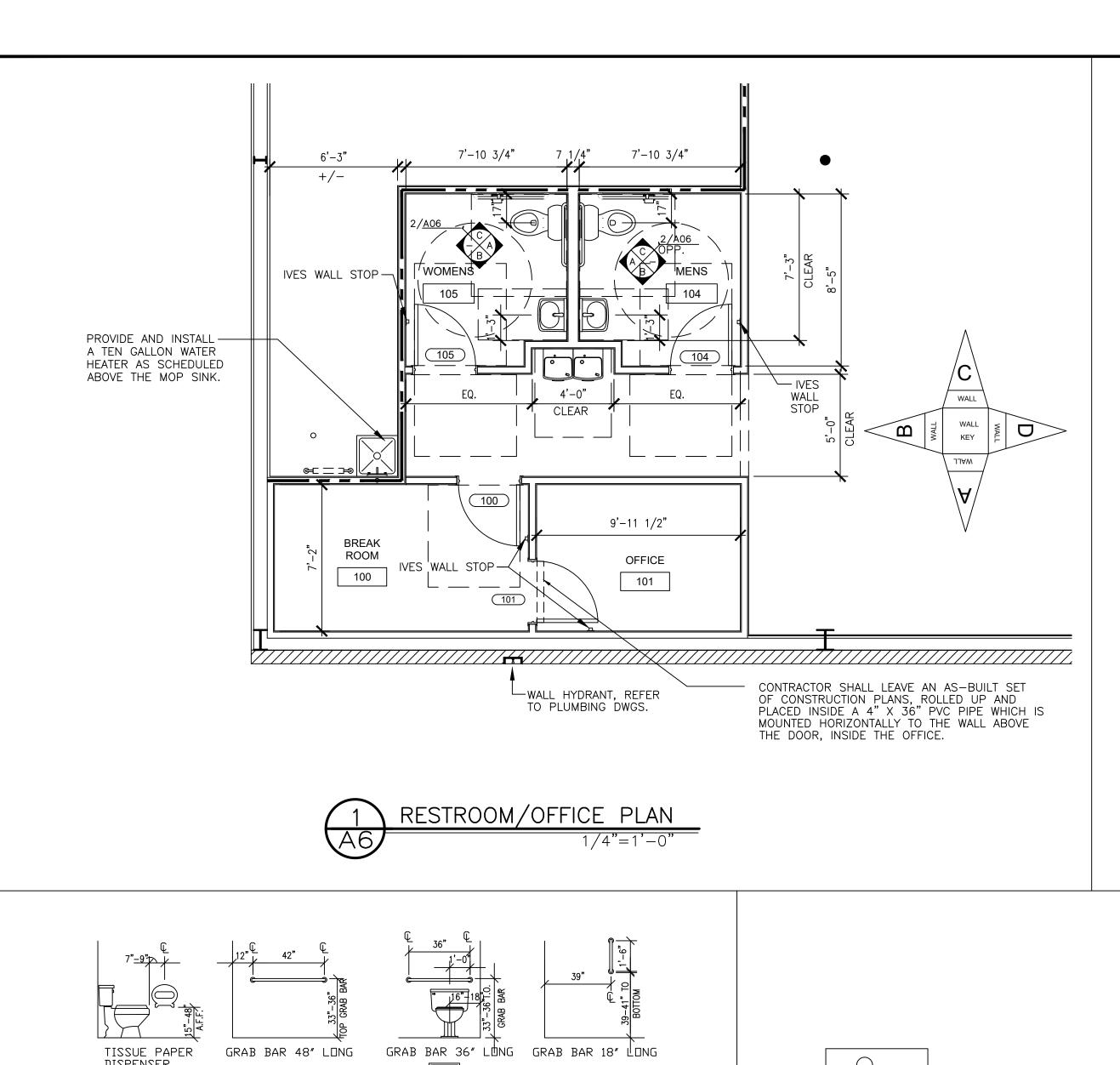
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SHEET TITLE
DOOR

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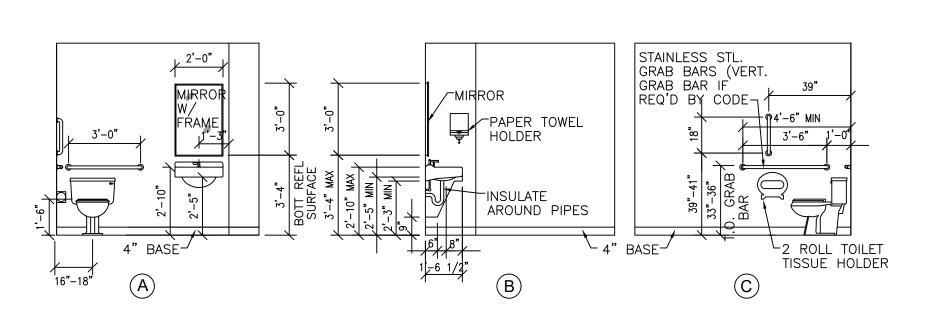
 22116
 3-18-22

A5



REST ROOMS

- 1. ALL STORES MUST INCLUDE TWO RESTROOMS, EVEN WHEN NOT REQUIRED BY CODE. ANY VARIATION MUST BE APPROVED, IN WRITING, BY THE DOLLAR GENERAL CONSTRUCTION AUTOCAD DEPARTMENT.
- 2. 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 AUTOCAD DEPARTMENT FOR ALTERNATE PLANS FOR THESE SITUATIONS.
- 3. PROVIDE AND INSTALL 2' x 3' MIRROR (OR LARGER IF REQUIRED BY CODE) IN RESTROOMS ABOVE LAVATORY. MOUNT THE BOTTOM OF THE MIRROR REFLECTIVE SURFACE AT 3'-4" AFF MAX. HEIGHT. NOT THE BOTTOM OF THE MIRROR FRAME
- 4. CONTRACTOR TO INSTALL SOAP DISPENSERS, TOILET PAPER HOLDERS, DOOR CLOSERS, DOOR HOLDERS, EXHAUST FANS, AND ALL TOILET ACCESSORIES IN BOTH RESTROOMS. PROVIDE ALL NECESSARY WOOD BLOCKING FOR ACCESSORIES.

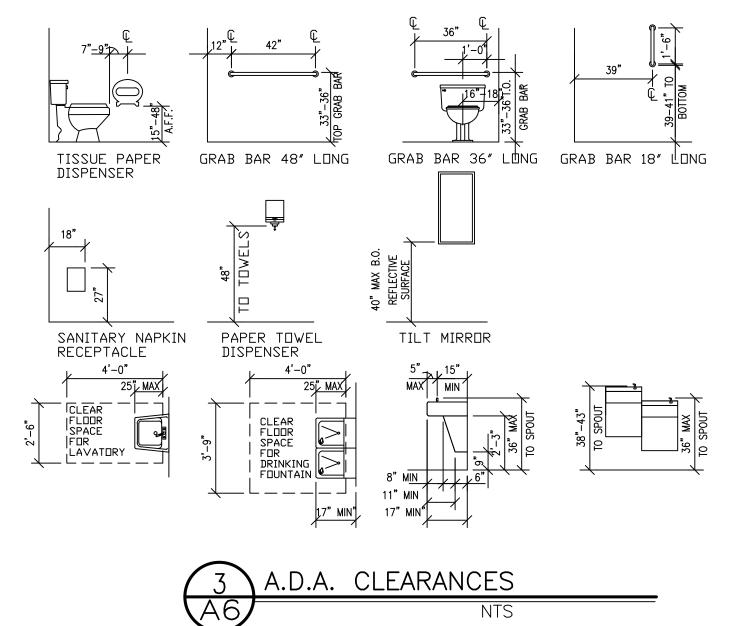


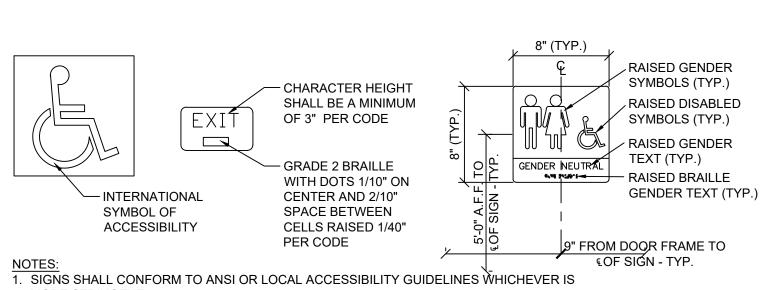


	888-774-3400 EXT. 925					
TOILET ACCESSORIES						
B2740	BOBRICK DOUBLE TOILET TISSUE DISPENSER					
B253	BOBRICK PAPER TOWEL DISPENSER					
54-US32D	BURNS PUSH PLATE					
5410-32D-26D-GRIP	BURNS PULL PLATE					
DDH-2250 **	DETEX DOUBLE DOOR HOLDER					
DS/1000MB	DOOR SCOPE (FOR RECEIVING EXIT DOOR)					
608Z	8" DOOR HOLDER					
770SAV-3FT	3 FT DOOR SWEEP					
770SAV-4FT	4 FT DOOR SWEEP					
W101S-DANE-626	FALCON PASSAGE LEVERSET					
W581PD-DANE-626	FALCON STOREROOM LEVERSET					
A-24x36	GAMCO 24" x 36" ANGLE FRAME MIRROR					
150Sx36	GAMCO 1 1/2" X 36" GRAB BAR					
150Sx42	GAMCO 1 1/2" X 42" GRAB BAR					
150Sx18	GAMCO 1 1/2" X 18" GRAB BAR					
MS-1	GAMCO MOP HOLDER					
5400	HAGER DOOR CLOSER					
7015SC8-26D *	ILCO RIM CYLINDER					
402-1/2B-26D	IVES WALL STOP					
452B26D-4	IVES 4" DOOR HOLDER					
8400-S32D-8X34	IVES KICK PLATE					
425 HD - 6 FT.	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-X DOUBLE DOOR STRIKE					
892SAV-84INCH	WEATHERSTRIPPING					
892SAV-84INCH	WEATHERSTRIPPING					

* MUST HAVE ONE RIM PER EXIT DEVICE. ** MUST HAVE DOUBLE DOOR STRIKE AND TWO DOUBLE DOOR HOLDERS FOR ALL DOUBLE EXIT DOORS.

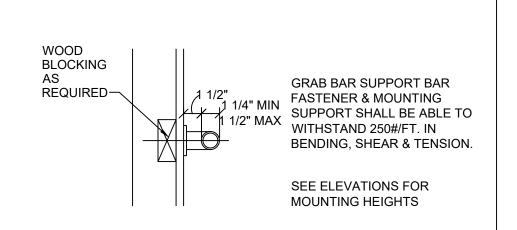
STUD IN WALL -



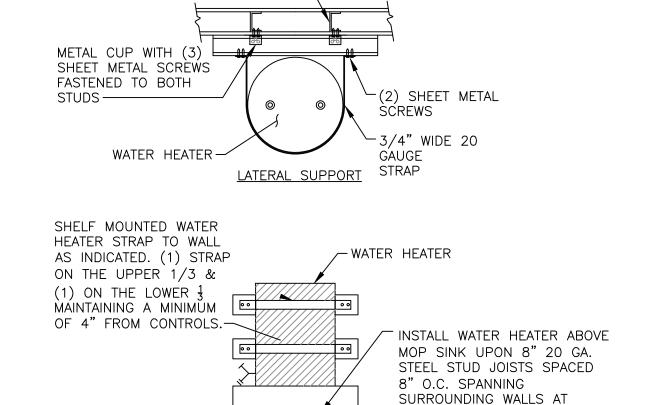


- MORE STRINGENT.
- 2. ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
- 3. G.C. TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS PER CODE. 4. SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST WALL PREFERABLY ON THE RIGHT. SIGNAGE SHALL HAVE NON GLARE FINISH W/ A CONTRASTING BACKGROUND. SEE A1 FOR LOCATION OF SIGNAGE.

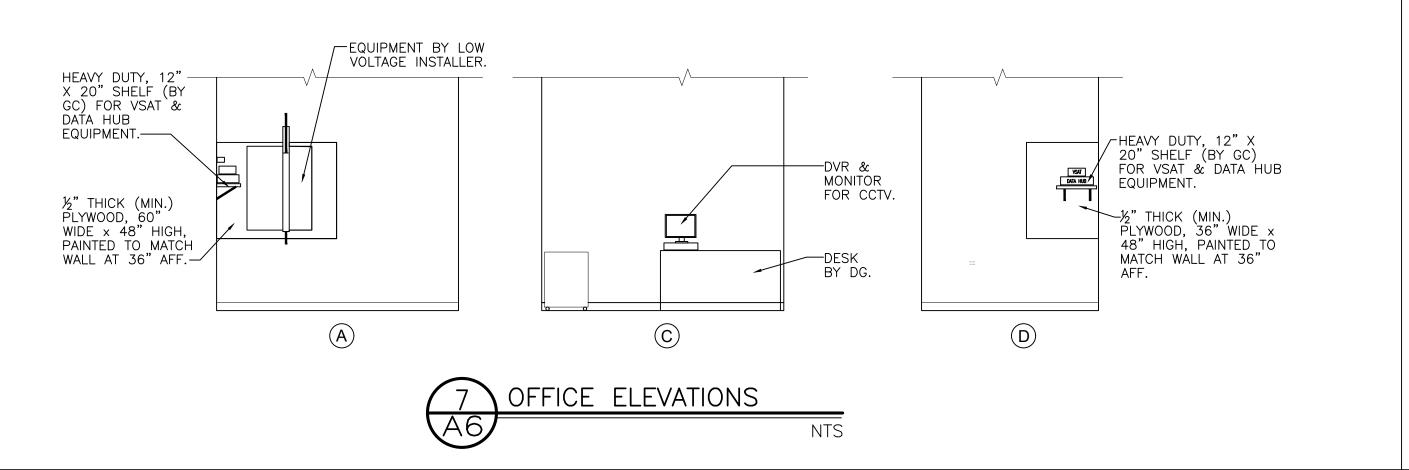
4	ACCESSIBLE SIGNAGE	
A6	1 1/2" = 1'-0"	

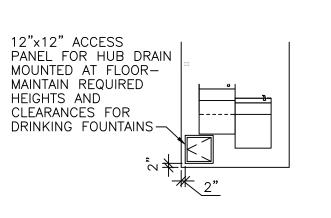




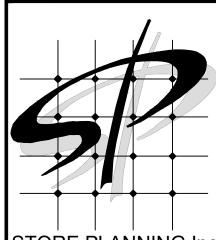


7'-6" A.F.F. COORDINATE STRUCTURAL SUPPORT FRAMING WITH G.C. WATER HEATER SHELF DETAIL

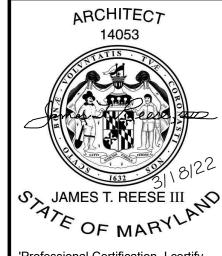








STORE PLANNING Inc 3080 SENNA DRIVE Matthews, North Carolina 28105 Phone: 704-841-7288 Fax: 704-849-6997



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DOLLAR GENEF ALLEGANY CC FLINTSTONE, N

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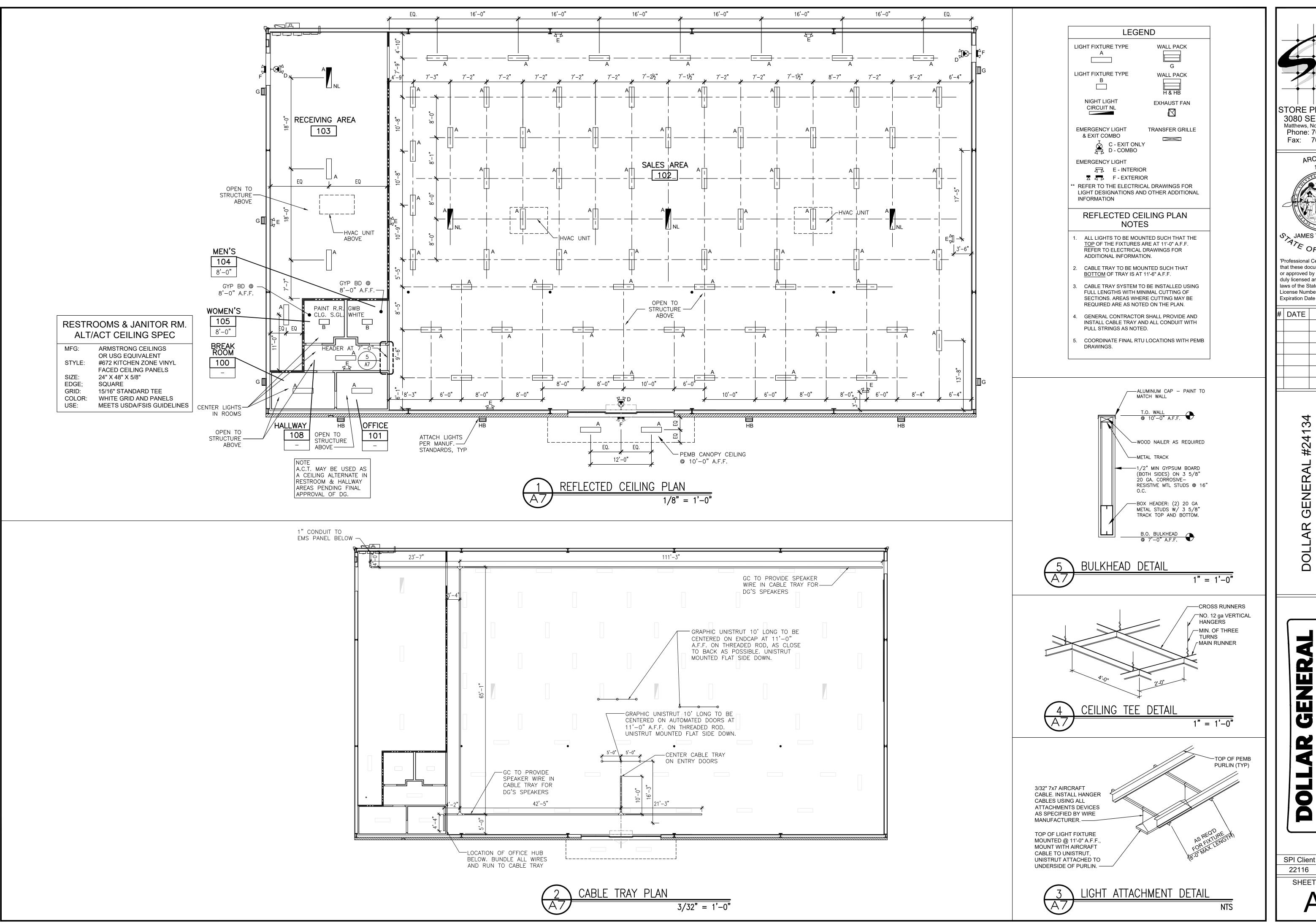
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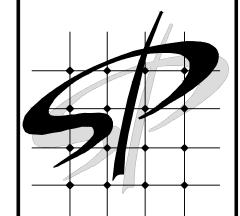
PLAN

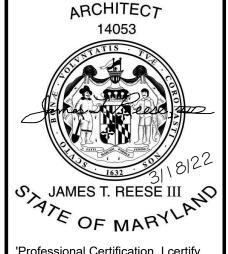
GENER

OFFICE STROOM R

DATE SPI Client 3-18-22 22116







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DATE REVISION

DOLLAR GENEF ALLEGANY CO FLINTSTONE, M

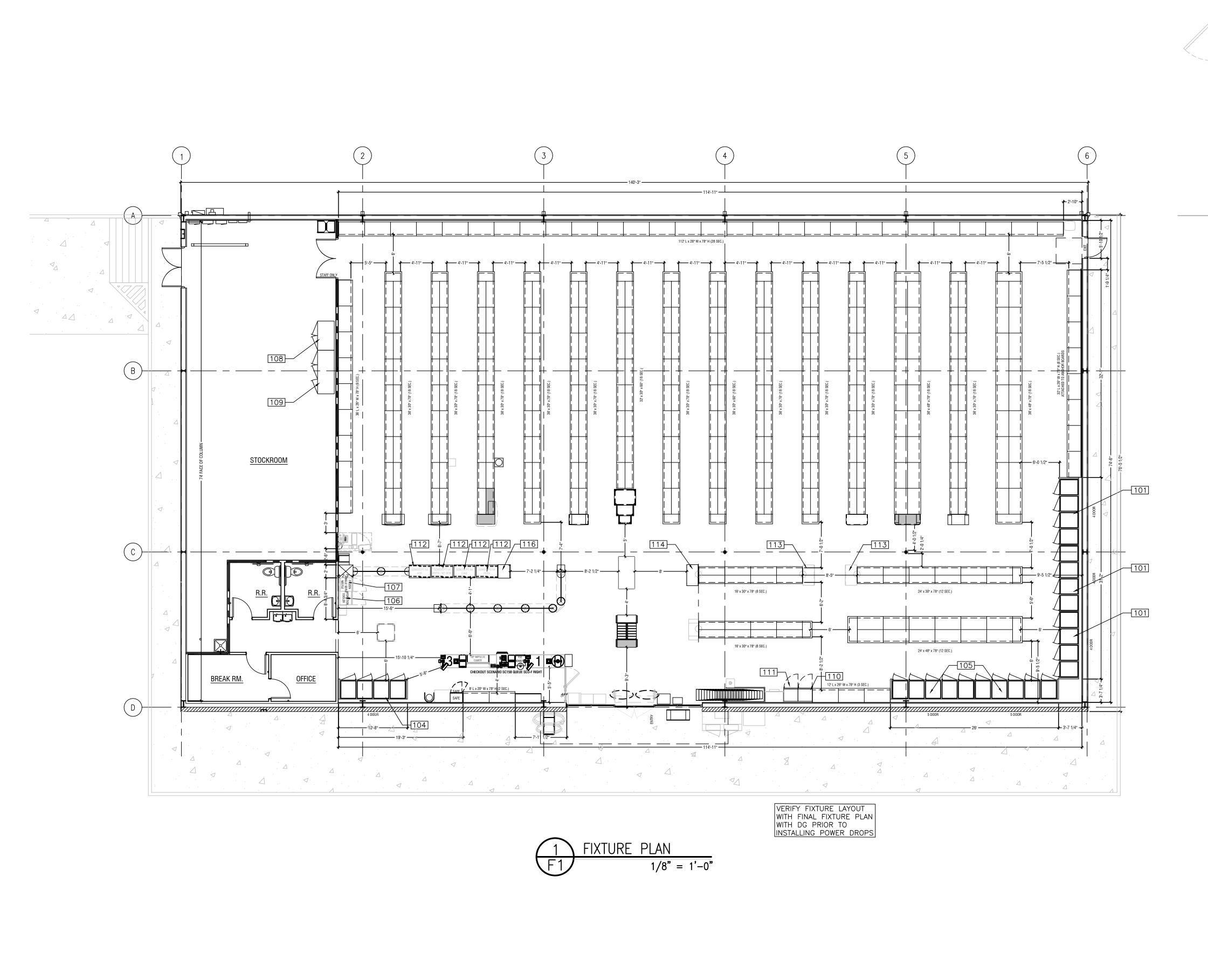
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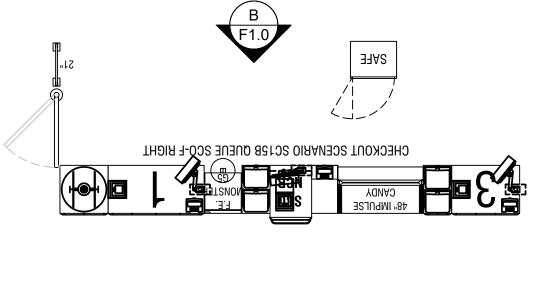
DETAILS

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CEILING

DATE SPI Client 3-18-22





SERVICE COUNTER DETAILS

REFRIGERATION

100 - 3 DOOR LOW TEMP

101 - 4 DOOR LOW TEMP

102 - 5 DOOR LOW TEMP

103 - 3 DOOR MID TEMP

104 - 4 DOOR MID TEMP

105 - 5 DOOR MID TEMP

106 - 1 DOOR MID TEMP

107 - 1 DOOR LOW TEMP

108 - 2 DOOR MID TEMP

109 - 3 DOOR LOW TEMP

110 - CLICK AND COLLECT FREEZER

111 - CLICK AND COLLECT COOLER

112 — SLIDING DOOR PASS—THRU

113 - ENDCAP COOLER

114 - ENDCAP COOLER

115 - PRODUCE COOLER

116 - 1-DOOR MID TEMP

OR

TRANSACTION COUNTER

B - ELEVATION

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 THEN 34" ABOVE THE FINISH FLOOR. COUNTERS SHALL BE ON AN ACCESSIBLE ROUTE.

WRITING SURFACE

TRANSACTION COUNTERS

RFL 3-DOOR

RFL 4-DOOR

RFL 5-DOOR

RFM 3-DOOR RHCC30 4-DOOR

RFM 4-DOOR

RFM 5-DOOR

RHMC30 4-DOOR

RHCC30 5-DOOR

GDM-12-HC-TSL01

GDM-12F-HC-LD

MCRT-49FD

MCFT-72FD

TGF-15SD:-N

TGM-15SD:-N6

GS-4

HOWARD MCCRAY SC-OP35E-8L-LED-DG (ONLY IN SELECTED STORES)

GDM-10-HC-TSL01

GDM-33CPT-54-HC-LD

RHZC30 3-DOOR

RHZC30 4-DOOR

RHZC30 5-DOOR

1/4" = 1'-0"

HUSSMAN

HUSSMAN

HUSSMAN

HUSSMAN

ZERO ZONE

ZERO ZONE

ZERO ZONE

ZERO ZONE

ZERO ZONE

ZERO ZONE

MAXX COLD

TURBO AIR

TURBO AIR

TRUE

HUSSMAN

TRUE

TRUE

ARCHITECT 14053 SAJAMES T. REESE III

STORE PLANNING Inc

3080 SENNA DRIVE

Matthews, North Carolina 28105

Phone: 704-841-7288

Fax: 704-849-6997

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DOLLAR GENEF ALLEGANY CC FLINTSTONE, N

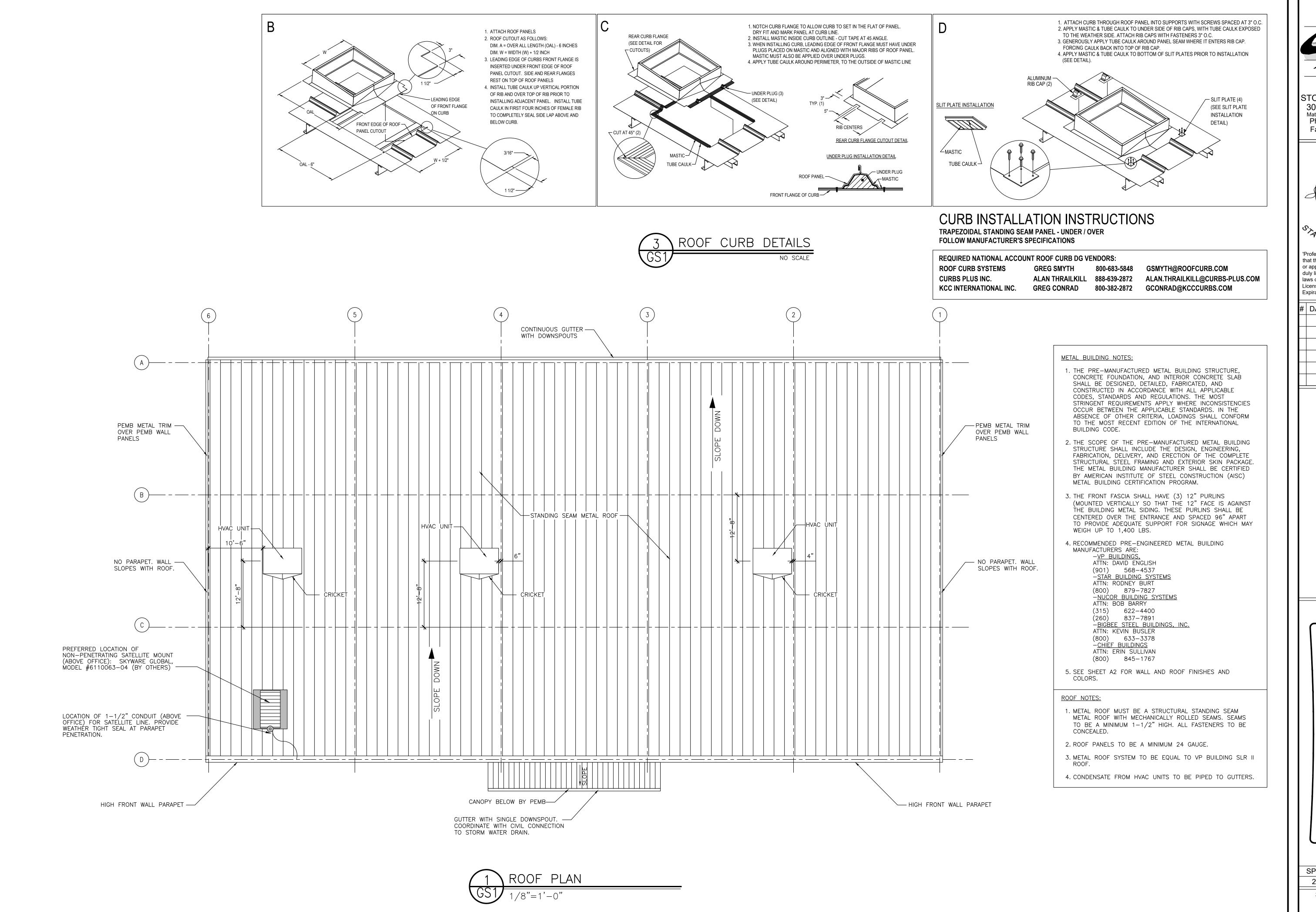
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DETAILS

AND

DATE

SPI Client 3-18-22



JAMES T. REESE III

'Professional Certification, I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland License Number 14053

Expiration Date 12/27/2022

DATE REVISION

#24134 TY MD YLAND

GENEL ANY CO ONE, N

DOLLAR GENE

SHEET TITLE ROOF

BUILDING

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 SPI Client
 DATE

 22116
 3-18-22

GS1

1) GENERAL

A. The building shall be designed such that there is maintained an absolute minimum dimension from face-of-column to face-of-column in the sales area as shown on the architectural floor plan.

A. The concrete foundations shall be designed, detailed and constructed to provide for the safe, serviceable support of the pre-manufactured metal building structure and all prescribed loads applied thereto. The foundations shall conform to the latest editions of all applicable standards of the American Concrete Institute (ACI), the Building Code(s) enforced by the Authority Having Jurisdiction and these requirements.

B. The soils supporting the foundation shall be prepared and compacted in accordance with a geotechnical testing based investigation and site specific recommendations provided by a Professional Engineer registered to practice in the State where the project is located.

C. The slab on grade shall not be utilized to resist horizontal thrust forces at the base of the pre-engineered building frames. Tie beams below and separate from the building slab may be utilized.

D. The bearing materials shall be free of organic, expansive or corrosive material, and shall support the foundation in accordance with the following twenty five year criteria:

1. Maximum differential movement due to either settlement or heave shall not exceed 1/2" over a distance of 50 feet.

2. Maximum total movement due to either settlement or heave shall not exceed 1".

E. The foundations shall be of sufficient depth to bear below local frost depth where exposed, attain minimum design bearing pressure, achieve sufficient protection from settlement or heave, and where adjacent to existing construction, avoid application of lateral earth pressure to adjacent construction.

A. The subgrade for the slab on grade shall be compacted and prepared in accordance with a geotechnical testing based investigation and site specific recommendations provided by a Professional Engineer registered to practice in the State where the project is located. The subgrade shall provide a minimum of 100 pounds per cubic inch (pci) modulus of sub-grade reaction and shall be proof-rolled to ensure that there are no pumping or soft zones greater than ½" (ACI 302, "Guide for Concrete Floor Slab Construction").

B. The slab on grade shall conform to the latest editions of all applicable standards of the American Concrete Institute (ACI), the Building Code(s) enforced by the Authority Having Jurisdiction and these requirements. The slab on grade shall be a minimum of 4" thick and reinforced with a minimum 6" x 6" x W1.4 x W1.4 welded wire fabric located in the center

C. Except at doors at the perimeter of the facility, the slab on grade shall be isolated from the building columns and any perimeter grade beams or walls. The slab on grade shall receive a hard steel trowel finish. Saw-cut contraction joints a minimum of 1/4 the depth of the slab shall be provided in both principal directions across the entire floor slab, spaced no further than 13 feet on center and providing panels with an aspect ratio no greater that 1.5:1. Refer to Control Joint Spacing Plan on Sheet S3. The slab shall be protected from the effects of heat or wind as necessary to avoid any curling of the slab segments.

4) CONCRETE SALES FLOOR PRE-INSTALLATION CONFERENCE:

A. At least 30 days prior to the start of the concrete slab construction, the general contractor shall conduct a meeting to review the proposed concrete mix designs and to discuss the required methods and procedures to achieve the requirements of this specification. The general contractor shall send a pre-concrete conference agenda to all attendees 20 days prior to the

B. The general contractor shall require responsible representatives of every party concerned with the concrete work to attend the conference, including, but not limited to, the following: General contractor's superintendent

1. Laboratory responsible for concrete mixes, field quality control and floor tolerance testing

2. Ready-mix concrete producer

3. Concrete contractor

4. Chemical admixture manufacturer

5. Liquid densifier and sealer manufacturer 6. Liquid densifier and sealer applicator

7. Joint filling manufacturer 8. Joint filling applicator

C. Minutes of the meeting shall be recorded, typed and printed by the general contractor and distributed to all concerned parties, including the owner's representative, the architect and the structural engineer, within five days of the meeting.

D. The minutes shall include a statement by the concrete supplier stating that the proposed concrete mix design will produce the concrete quality required by these specifications.

E. The minutes shall include a statement by the concrete contractor that the proposed concrete mix design will provide appropriate workability and setting times, to ensure that the concrete contractor can achieve the requirements of this

5) CONCRETE CONTRACTOR QUALIFICATION:

A. The concrete contractor shall include in their bid package to the general contractor, sufficient data, including a minimum of three similar and successful projects that clearly indicates the concrete contractor's ability to successfully perform the work and to achieve the interior sales floor slab tolerances required in this specification. The concrete contractor's team shall have participated in the majority of these projects, and that team shall remain the same through the duration of this project.

A. Portland Cement: ASTM C 150, Type 1. Use one brand of cement throughout the project.

B. Coarse and fine aggregates: ASTM C 33. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1½") or 8% - 22% for smaller top size aggregates (1" or ¾") retained on each sieve below the top size and above the no. 100 sieve. Slabs on grade shall have a maximum aggregate size of 1½" footings and piers 1" and beams 3/4".

C. Water: complying with ASTM C 94.

D. Air-entraining admixtures: Shall conform to ASTM C-260. Admixture manufacturer shall provide written certification that the air-entraining admixture is compatible with other required admixtures. All exterior slabs shall be air-entrained (4% - 6%). Acceptable products: Euclid Chemical AEA-92 or Air 40; BASF Micro Air; W.R. Grace Daravair 1000 or Darex-1. Note: Air-entraining admixture shall not be used on interior concrete.

E. Water-reducing admixture: Shall conform to ASTM C494, Type A and contain no more than 0.05% chloride ions. Acceptable products: Euclid Chemical Eucon series; BASF Pozzolith series; W.R. Grace WRDA or Daracem series.

F. Water-reducing, retarding admixture: Shall conform to ASTM C494, Type D, and contain no more than 0.05% chloride ions. Acceptable products: Euclid Chemical Retarder 75; BASF Pozzolith series; W.R. Grace Daratard 17.

G. High range water-reducing admixture (superplasticizer): Shall conform to ASTM C494, Type F or Type G and contain no more than 0.05% chloride ions. Acceptable products: Euclid Chemical Eucon 37; BASF Rheobuild 1000; W.R. Grace

H. Water-reducing, non-corrosive accelerating admixture: Shall conform to ASTM C494, Type C or E, and contain no more chloride ions than are present in municipal drinking water. The admixture manufacturer must have long-term, non-corrosive test data from an independent testing laboratory (of at least a year's duration) using an acceptable accelerated corrosion test method such as that using electrical potential measures. Acceptable products: Euclid Chemical Accelguard 80/90 or Accelguard NCA; BASF NC534 or Pozzutec 20; W.R. Grace Polarset.

I. Prohibited admixtures:

1. Calcium chloride or admixtures containing more than 0.05% chloride ions are not permitted. 2. Flyash is not permitted.

7) EVAPORATION RETARDER

A. Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

1. Acceptable products: a. "Eucobar" by Euclid Chemical - Phil Brandt 877-438-3826

8) CURING MATERIALS:

A. Exterior curing: All exterior concrete slabs shall be cured using a liquid membrane-forming curing compound. The liquid membrane-forming curing compound shall meet the requirements of ASTM C1315 with a maximum V.O.C. Content of 700 g/l.

a. "Super Rez Seal" or "Super Aqua Cure" by Euclid Chemical - Phil Brandt 877-438- 3826

1. Acceptable products:

B. Interior curing (building not enclosed/sales floor slab is placed first): The interior sales floor slab shall be cured using a reduced odor, dissipating liquid membrane forming curing compound that is formulated from hydrocarbon resins. The dissipating liquid membrane forming curing compound shall meet the requirements of ASTM C309 and V.O.C. contents in accordance to EPA 40 CFR, part 59, table 1, subpart D for concrete curing compounds with a maximum V.O.C. content of 350g/l.

1. Acceptable product: a. "Kurez DR VOX" by Euclid Chemical - Phil Brandt 877-438-3826

C. Interior curing (building enclosed/sales floor slab is placed <u>last</u>): The interior sales floor slab shall be cured using a removable, low odor, fast drying liquid membrane forming curing compound. The removable liquid membrane forming curing compound shall meet the requirements of ASTM C309, AASHTO M 148, USDA compliancy and V.O.C. contents in accordance to EPA 40 CFR, part 59, Table 1, subpart D for concrete curing compounds with a maximum V.O.C. Content of 350g/l.

1. Acceptable product: a. "Kurez RC" by Euclid Chemical - Phil Brandt 877-438-3826

9) LIQUID DENSIFIER / SEALER FOR INTERIOR SALES FLOOR:

A. Liquid densifier / sealer shall be a sodium silicate / siliconate blend. Manufacturer of liquid densifier and sealer must be contacted prior to bidding for pricing and application requirements.

1. Acceptable liquid densifier and sealer manufacturer:

a. "Euco Diamond Hard" by Euclid Chemical - Phil Brandt 877-438-3826 b. "RetroPlate 99" by RetroPlate Systems - Curtis Turnbull 888-942-3144

B. Approval: All general contractors bidding or negotiating a Dollar General project shall contact Euclid Chemical or RetroPlate to obtain a list of approved applicators located within the geographic region of the project. General contractors shall solicit and accept pricing only from those applicators as provided by Euclid Chemical or RetroPlate. The approved applicator selected for the initial application of liquid densifier / sealer shall be the same as for the joint filling and additional application of liquid densifier / sealer and polishing process. Within ten days after completion of work, the approved applicator shall furnish Euclid Chemical or RetroPlate a copy of the invoice, as well as square footage and coverage rate data confirming that the specified application rates were achieved.

C. Project service: at least <u>10</u> days prior to application of liquid densifier and sealer, the general contractor shall notify the Euclid Chemical or RetroPlate representative for jobsite service. The representative will be on the project site during the first application of liquid densifier / sealer and will follow the project through to completion.

A. UV Resistant, semi-rigid polyurea joint filler shall be a two (2) component, 100% solids compound, with minimum Shore "A" hardness of 80. Joint filler color shall match the adjacent concrete surface. 1. Acceptable semi-rigid polyurea joint filler manufacturer:

a. "Euco QWIKJoint UVR" by Euclid Chemical - Phil Brandt 877-438-3826

B. Non-UV Resistant, semi-rigid polyurea joint filler shall be a two (2) component, 100% solids compound, with a minimum Shore "A" hardness of 75. Joint filler color shall match the adjacent concrete surface. 1. Acceptable semi-rigid polyurea joint filler:

a. "CreteFill Pro 75" by CureCrete - Curtis Turnbull 888-942-3144

C. Approval: All general contractors bidding or negotiating a Dollar General project shall contact the Euclid Chemical company or Retroplate to obtain a list of approved applicators located within the geographic region of the project. General contractors shall solicit and accept pricing only from those applicators as provided by Euclid Chemical or RetroPlate. The approved applicator selected for the initial application of liquid densifier / sealer shall be the same as for the joint filling and additional application of liquid densifier / sealer and polishing process.

11) CONCRETE MIXES:

Prototype mix:

A. Comply with ACI 301 requirements for concrete mixtures.

B. Concrete mix design(s) shall be proportioned according to ACI 301, for normal-weight concrete determined by either laboratory trial mix or field test data as follows:

1. Compressive strength (28 days): 4000psi (27.6mpa), with a maximum water/cement ratio of .53, unless otherwise indicated on the drawings. Concrete materials included in the mix design shall be the same materials provided to the project, and shall be prepared by an independent testing laboratory approved by the owner. If sufficient backup data is not available, the laboratory mix design shall exceed the desired job strength of concrete by 1,200psi. Four copies of the mix design shall be submitted to the owner before concrete work

2. Slump: Concrete containing mid or high range water reducer shall have a maximum slump of 5½" for the interior sales floor slab and 8" (200 mm) for other areas. All other concrete shall not exceed 4 inches (100 mm) unless otherwise indicated on the drawings.

3. Adjustment to concrete mixes: Mix design adjustments may be requested by General Contractor when characteristics of materials, job conditions, weather, test results or other circumstances warrant; at no additional cost to owner and as accepted by owner. Laboratory test data for revised mix design and strength results must be submitted to and accepted by owner before using in work. Both the concrete testing and inspection agency and the concrete contractor shall satisfy themselves that the concrete mix design will produce a concrete which will meet the specifications for this project. In addition, the General Contractor and Concrete Contractor shall verify that the workability, finishability and setting times are appropriate for slab installations. Placement shall be made directly from concrete trucks by chute. If pumping of the concrete is contemplated for any special locations, the proportions established above shall not be altered to suit the capabilities of the pumping equipment. For concrete containing macro-synthetic fibers, adjustments required to provide required placement conditions may warrant use of additional water reducer. No additional water is permitted into concrete mixture after addition of macro-synthetic fibers.

4 Interior concrete sales floor: Concrete shall be designed to meet 4000 psi compressive strength @ 28 days and exhibit <0.04% shrinkage @ 28 days. The mix shall contain approximately 12 cubic feet of #467 aggregate (1-1/2" top size), the specified water reducing admixture and achieve a w/cm ratio of 0.53 (max.). Concrete shall be non air-entrained and in no case shall the concrete be designed for less than 4000 psi (27.6mpa) @ 28 days. Proposed mix design shall be similar to the following

Materials Prototype mix 517-564lbs. Cement Prohibited Fly ash/slag 12 cubic feet +/- .50 (#467 stone) Coarse aggregate 7 cubic feet +/- (adjust as necessary) Fine aggregate 250 - 300lbs. Water content

Air content (Entrapped Air Only) 3.0% (max.) Water Reducer (type a/f) 3oz.-10oz./100wt +/- (mid range preferred) 0.53 (max.)

Initial slump (water) Final Slump (with water reducer)

5.5" (max) <0.04% @ 28 days 12) FLOOR SLAB FINISH AND TOLERANCES:

A. General: Unless otherwise noted by owner, concrete sales floor slab shall be cast in one continuous placement. Concrete shall be placed, screeded, re-straightened, and finished as necessary to meet the FF and FL tolerance requirements. Do not wet concrete surfaces during finishing operations.

B. Trowel finish (sales floor): Apply a hard trowel finish to surfaces as follows:

1. Laser screeds, vibratory screeds, highway straightedges and wood bull floats shall be used to initiate screeding and floating process to form a uniform and open-textured surface plane before excess moisture or bleed water appears on the surface. A back-up laser screed is required during concrete placement of the interior sales floor slab. Remove excess water before starting floating operations. Do not further disturb surfaces before starting

2. Highway straightedge operations shall continue before, during and after troweling operation, until specified floor tolerances are achieved.

3. Trowel finish with gas operated troweling machine with adjustable blades on all finishing equipment. Use steel-reinforced blades on ride-on power trowels. Trowel the surface sufficiently to produce a smooth, tight, abrasion resistant surface. Care shall be taken not to overwork or burn the surface. Use 6" wide finish style steel-reinforced blades on final passes. Finishing blades shall be in new condition and completely clean of any deleterious materials. Interior machine trowel finish shall be achieved within a 3" tolerance of all walls, columns and partitions.

4. Protection: Care shall be taken to protect the interior sales floor. Entrances shall include clean floor mats to prevent mud stains and all equipment on the floor shall be diapered to prevent spills. Cutting oils, etc, are not allowed on the sales floor slab at any time during the construction process.

C. Comply with ACI 117, "Specifications For Tolerances For Concrete Construction and Materials." Interior sales floor slab shall meet the requirements of a type 5, single course, hard steel-troweled finish as described in ACI 302.

1. All perimeter areas and edges of the concrete floor shall exhibit the same finish as the sales floor, including but not limited to, hallways, offices, restrooms, etc.

2. The general contractor is responsible for contracting with the testing laboratory for all costs associated with floor tolerance testing. A copy of the final floor tolerance report shall be provided by the general contractor to the owner within 24 hours of receiving the report from the testing laboratory. The sales floor slab shall conform to the following flatness and levelness criteria:

Flatness Overall Floor Flatness rating of at least 35 Levelness Overall Floor Levelness rating of at least 30

Tolerance Band for Entire Floor +/- 0.375 inch D. Failure to achieve the above criteria shall be cause for replacement of the offending segments or grinding/polishing at no cost to the Owner or Tenant.

E. Trowel finish (other than sales floor): Apply a hard trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin film-finish coating system.

F. Heavy broom finish: As noted on drawings.

13) CONCRETE PROTECTION AND CURING:

A. General: Normalize concrete set time and protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 305 for hot-weather protection and ACI 306 for cold-weather protection during curing. During concrete placement operations, ventilate and exhaust all fumes from construction equipment and heaters to avoid potential early concrete carbonation. Apply the specified curing compound as quickly as possible for maximum protection. For concrete placement during hot, dry and windy conditions, concrete contractor shall use evaporation retarder as per manufacturer's instructions to maintain a moist condition and to minimize plastic drying shrinkage cracking at the surface of the freshly placed concrete.

1. Curing - Exterior Slabs:

All exterior concrete slabs shall be cured using the specified liquid membrane-forming curing compound. Per manufacturer's instructions, application shall be applied evenly and uniformly as soon as possible after final finishing. Surface shall be clean and damp, but not wet and can no longer be marred by walking workmen. All applications shall be made by an approved applicator of the manufacturer, and when surface and air temperature is above 50° f. Apply "Super Rez Seal" or "Super Aqua Cure" at an application rate of 400sf/gallon. Begin curing immediately after finishing concrete, but not before free water has disappeared from concrete surface.

The interior sales floor slab shall be cured using the specified dissipating or removable liquid membrane-forming curing compound. Per manufacturer's instructions, application shall be applied evenly and uniformly as soon as possible after final finishing. Surface shall be damp, but not wet and can no longer be marred by walking workmen. All applications shall be made by an approved applicator of the manufacturer, and when surface and air temperature is above 50° f. Apply "Kurez DR VOX" (slab first) or "Kurez RC" (slab last) at an application rate of 350sf/gallon. Begin curing immediately after finishing concrete, but not before free water has disappeared from concrete surface.

14) CONTRACTION JOINTS IN SLABS-ON-GRADE:

A. Form weakened-plane contraction joints, sectioning concrete into areas as indicated on drawings. Contraction joints shall be sawn to a depth equal to at least one-fourth of the concrete thickness, as follows:

B. Sawed joints: All saw cutting shall be accomplished with a "Soff-Cut" saw and vacuum system equipped with a new blade and plate, as soon as the slab will support the weight of the saw and operator. Note: Concrete dust shall be removed completely and immediately. If chalk lines are used for sawcuts, all chalk remaining on the slab shall be removed completely and immediately after sawing.

15) INTERIOR SALES FLOOR SLAB PROTECTION:

A. Take the following measures to protect the interior sales floor slab:

1. Wrap or "diaper" all motorized and hydraulic equipment to prevent fluid leaks 2. Provide non-marking tires on rubber tired vehicles or equip rubber tires with tire boots made of nylon fabric 3. Provide mats at all entrances to prevent mud stains

16) TIMING OF JOINT FILLER, LIQUID DENSIFER AND POLISHING PROCESS: A. Do not commence installation of semi-rigid polyurea joint filler, liquid densifier and sealer or polishing processes until the building is completely enclosed, permanent power and lighting is operating and the building is thermostatically controlled. Installation of these materials shall commence approximately two weeks prior to "fixture

17) INSTALLATION OF SEMI-RIGID POLYUREA JOINT FILLER:

A. All General Contractors bidding or negotiating a Dollar General project shall contact Euclid Chemical or RetroPlate to obtain a list of approved applicators located within the geographic region of the project. General contractors shall solicit and accept pricing only from those applicators as provided by Euclid Chemical or RetroPlate. The approved applicator selected for the initial application of liquid densifier / sealer shall be the same as for the joint filling and additional application of liquid densifier / sealer.

B. Joint filler installation: Comply with recommendations in ACI 302 for use of joint filler as applicable to materials, applications, and conditions indicated.

C. Surface cleaning of joints: Clean out joints immediately before installing joint filler. Remove foreign material from joint substrates that could interfere with adhesion of joint filler by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint filler. Remove loose particles remaining from above cleaning operations by vacuuming or blowing out joints with oil-free compressed air. Also remove all laitance and form-release agents from concrete surface. Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues could interfere with adhesion of joint sealants. All surfaces to be filled shall be clean and dry.

D. For proper load transfer, joints must be filled full depth, but in no case should the joint filler be any less than 1" deep in the joint.

E. Mixing: Joint filler is a two part product requiring machine mixing and placing. Premix part b separately before using. Follow pump manufacturer's equipment instructions.

F. Placement: Joint filler shall be filled full depth. No backer rod is allowed. Joints should be overfilled and shaved even with the surrounding joint edge giving the floor joints a flat, smooth appearance. Shaving of excess joint filler can be approximately 30 minutes after placement, and up to 24 hours later, depending on jobsite conditions such as concrete and ambient temperatures.

G. Joint filler separation: The approved joint filling applicator shall include in their bid a cost per linear foot to make one return trip to refill joints if joint filler sidewall separation or splitting exceeds 1/16," or if surface profile is concave, chattered or if voids occur. This shall take place one week prior to grand opening.

18) INITIAL CLEANING FOR LIQUID DENSIFIER AND SEALER APPLICATION:

A. Interior sales floor slab: Thoroughly clean the interior sales floor slab prior to initial application of liquid densifier and sealer by completely removing the specified dissipating or removable curing compound from the floor surface. The following floor stripper or removal solution shall be applied to the floor to thoroughly strip, clean and remove all curing compound residue:

1. If Kurez DR VOX (slab first) was used to cure the slab, use "Euco Clean & Strip" by Euclid Chemical, applied at the proper water to floor stripper ratio and coverage rate that will completely remove the Kurez DR VOX. Contact: Phil Brandt (877) 438-3826

2. If Kurez RC (slab last) was used to cure the slab, use "Kurez OFF" by Euclid Chemical, applied at the proper water to floor cleaner ratio and coverage rate that will completely remove the Kurez RC. Contact: Phil Brandt (877) 438-3826

19) POLISHING PROCESS AND APPLICATION OF LIQUID DENSIFIER / SEALER: A. All Applicators must be certified by Euclid Chemical or Retro-Plate.

B. The revised process can be used in both "Wet" and "Dry" applications.

C. This process assumes a quality concrete finish (meets and/or exceeds the specified floor tolerances) by the floor finisher. Failure to achieve the above criteria shall be cause for replacement of the offending segments or grinding/polishing at no cost to the Owner or Tenant.

D. Only the Sales Floor will receive the full 9 step process outlined below under item K.

E. All other areas will only receive steps 1 through 4, no additional work is necessary. The yellow safety

F. The Black painted border will not be required in areas behind fixtures, etc...it will only be installed at the main entry door, office doors, egress doors and doorways into the receiving area and transitions that can be

G. Steps 2 & 4 are combo steps using different grits of resin bond diamonds on each pass.

H. This is a "Resin" only grind that does not tear away as much of the surface area. The Resin grind will remove a minimal top layer of the concrete surface and should greatly reduce the amount of Waste Product created when compared to the old Metal grind process.

I. If a Cure-n-Seal product is required at the time of slab placement only Water Based Dissipating Sealers are allowed. NO Acrylic Cure-N-Seals are allowed.

J. Prior to application, inspect interior sales floor slab to ensure that slab is clean and free of dust, grease, oils, or other contaminants that might prohibit the proper application and penetration of the liquid densifier and sealer.

Process Steps

beneath the test unit.

seen by the customers.

1. Cut, clean out, prep and fill the concrete floor joints with the Euclid QWIKjoint UVR polyurea joint

2. Grind concrete floor with a combo set of 40/50 grit resin bond diamonds.

3. Grind concrete floor with a combo set of 60/100 grit resin bond diamonds.

4. Thoroughly clean the concrete floor and apply Diamond Hard densifier at 225 square feet per gallon.

5. Polish concrete floor with a combo set 100/200 grit resin bond diamonds.

6. Polish concrete floor with 400 grit resin bond diamonds.

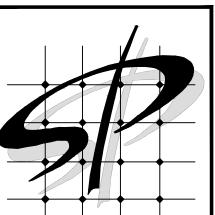
7. Thoroughly clean concrete floor and then apply Diamond Hard densifier at 700 square feet per gallon.

8. Burnish / Polish concrete floor with 800 grit diamond impregnated pads.

9. Burnish / Polish concrete floor with 1500 grit diamond impregnated pads.

HTC EZ Grind polishing 5" diamond tools. M. Polish results: Perform polishing process to attain an overall gloss reading of ≥35 specified overall gloss value (SOGV) as measured using a Horiba IG-320, and a specified minimum gloss reading of ≥30 minimum local gloss value (MGLV). A minimum of 75 readings shall be taken throughout the interior sales floor. The approved applicator shall take four gloss measurement readings at 90° from each other, and then averaged for one reading at each location. The overall measurement shall be reported to Dollar General within 24 hours of the polishing process. Gloss shall be considered as a quantitative value that expresses the degree of reflection when light hits the concrete floor surface. Gloss measurements will be taken independent of ambient lighting and will be taken within a sealed measurement window located

L. All edges must be polished to match concrete floor with coinciding SASE 5" resin Polishing pads or



STORE PLANNING Inc 3080 SENNA DRIVE Matthews, North Carolina 2810 Phone: 704-841-7288 Fax: 704-849-6997

ARCHITECT 14053 ATE OF MARYLY

rofessional Certification, I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland License Number 14053 Expiration Date 12/27/2022

#	DATE	REVISION

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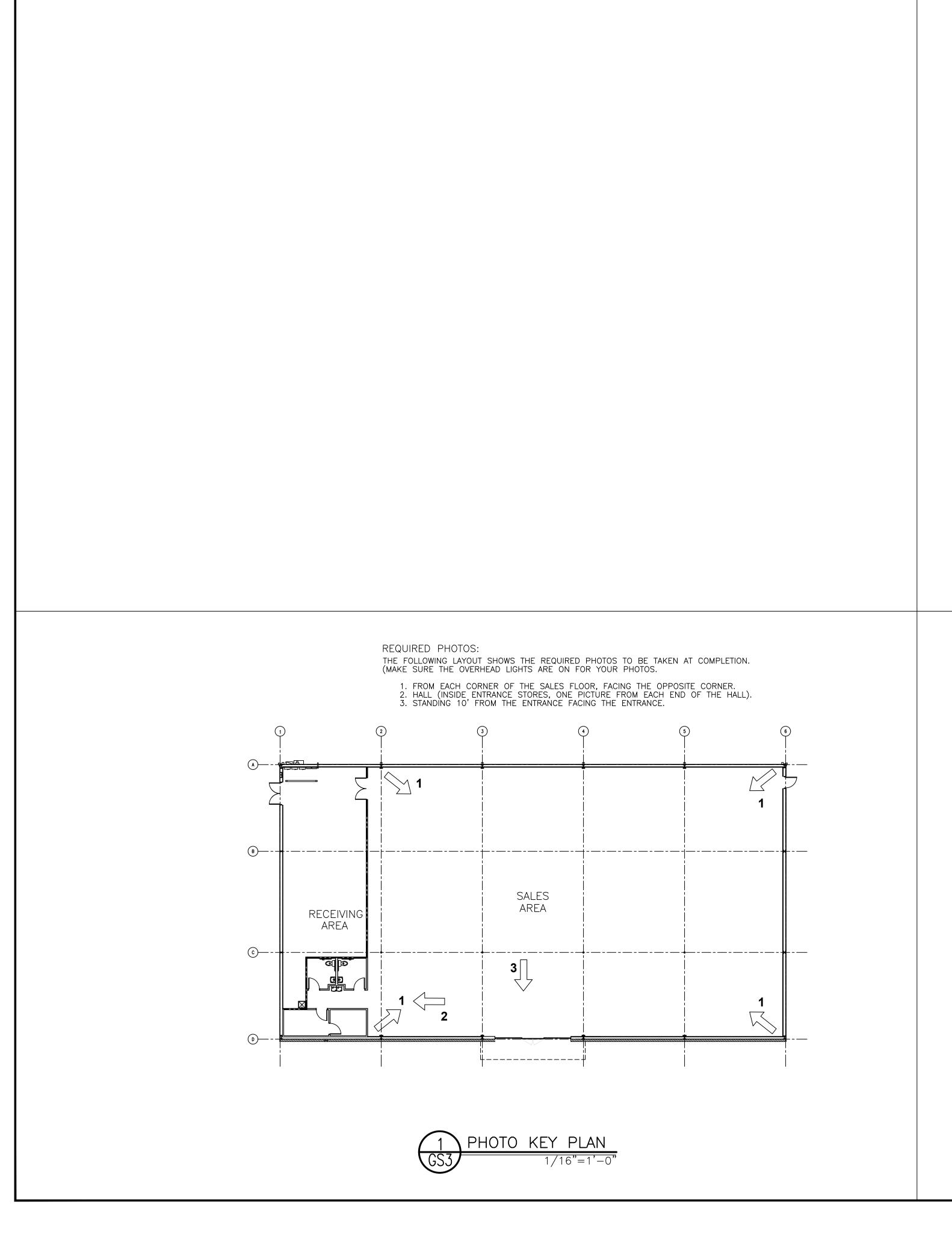
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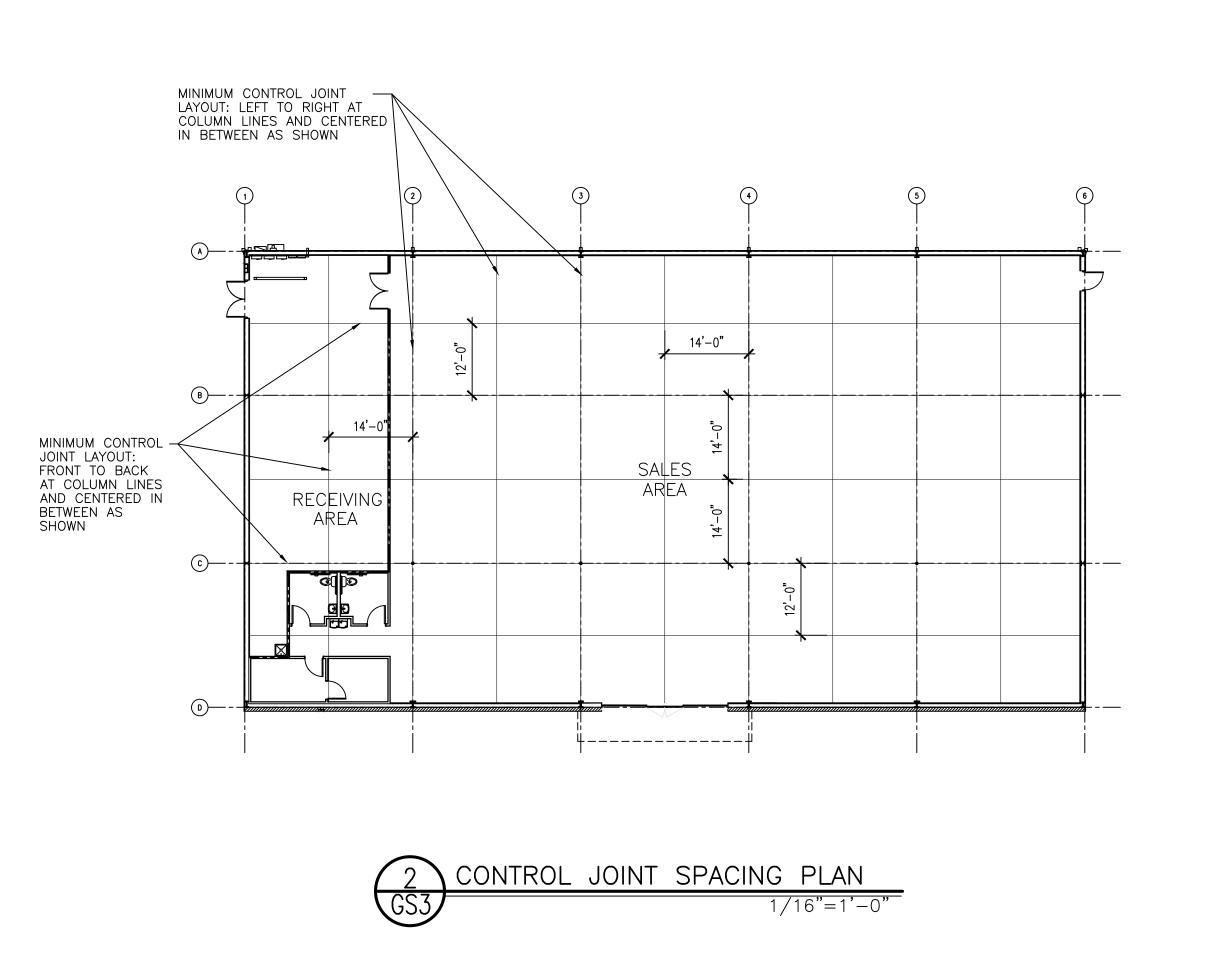
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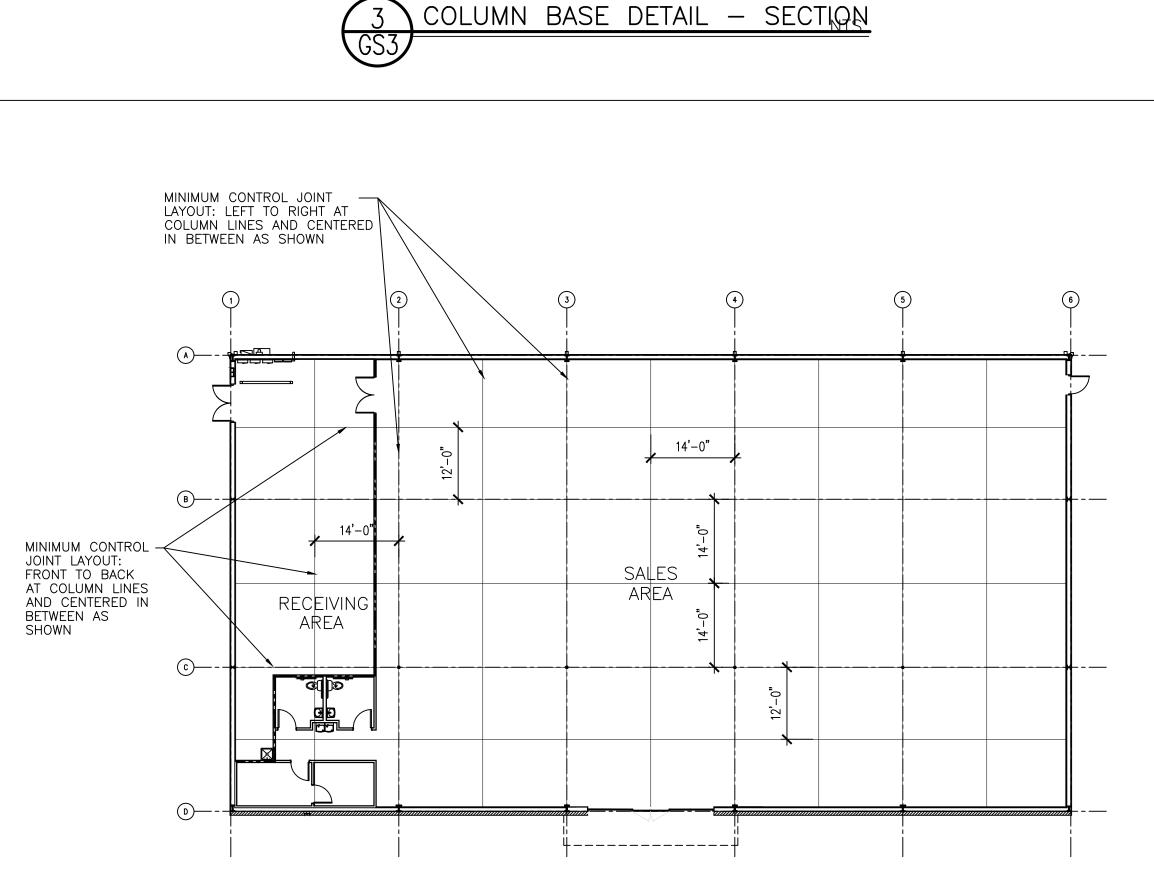
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DATE

3-18-22 SHEET NUMBER







(4) SIDES TO RECEIVE 1/4" PREFORMED JOINT FILLER AND SEALANT,

NO EXCEPTIONS —

CONTRACTION OR

CONSTRUCTION

JOINT

-COLUMN WITH

JOINT

AND DETAILS.

- ANCHOR BOLTS PER STRUCTURAL

- REINFORCING PER STRÜCTURAL

RECESSED BASE PLATE

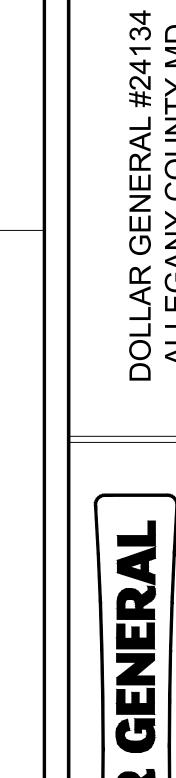
TWO SETS OF (2) #4 REBAR, WHERE CONTRACTION OR

CONSTRUCTION JOINT DOES NOT
OCCUR. SEE FOUNDATION DRAWINGS
FOR PLACEMENT

STRUCTURAL SHALL GOVERN OVER ARCHITECTURAL FOR ALL FOUNDATION AND LOAD BEARING DESIGN SPECS

CONTRACTION OR

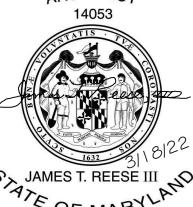
CONSTRUCTION



STORE PLANNING Inc

3080 SENNA DRIVE Matthews, North Carolina 28105 Phone: 704-841-7288 Fax: 704-849-6997

ARCHITECT



STATE OF MARYLAND

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'Professional Certification, I cert that these documents were prep or approved by me, and that I are duly licensed architect under the laws of the State of Maryland License Number 14053 Expiration Date 12/27/2022 # DATE REVISION							

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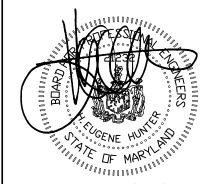
3-18-22 22116 SHEET NUMBER

	Statement of Sp	pecial Inspections			
Statement of Special Inspections	IT-1 Verification of Soils	IT-7 Precast Concrete Erection	IT-13 High-Strength Bolting and Steel Frame Inspection		
Statement Date: O3/18/2022 Project Name: Dollar General - Store #24134	Check if Inspection Task Continuous Inspections Inspections Firm	Check if Inspection Task Continuous Inspections Inspections Inspections Firm	Check if Inspection Task Continuous Inspections Inspections Inspections Firm		
Building Permit Number: Project Address: Owner: Dysord Chase Development Company	Verification of Soils IBC 1704.7 ξ Chapter 18 Site prepared per soils report Verify soil bearing pressure.	Precast Concrete Erection, IBC Table 1704.4, Item 9	Installation of high strength bolts shall be inspected in accordance with AISC		
Architect of Record: James T Reese, AIA Structural Engineer of Record: H. Eugene Hunter, PE. (Design Professional in Responsible Charge (DPIRC))		Precast concrete fabricated in a plant, which is certified. IBC 1704.2	accordance with AISC specifications (ASTM A 325 or ASTM A 490) Bolts must be in accordance with AISC ASD or AISC LRFD		
			Material verification of high-		
The following information is being submitted in accordance with the Special Inspection provisions of the Maryland Building Code (IBC 2018). Attached is the Schedule of Special Inspections (SSI) required for this project. This completed form is required to be placed on the drawings for plan review. After permit assuance, a listing of the Special Inspection Firms (SIF) and the Designated Special Inspectors (DSI) for each inspection type will be attached to this form and turned in to the Building Inspector prior to scheduling the Pre-Construction Meeting with The County Code Enforcement. No work is permitted to be performed prior to the Special Inspections Pre-Construction Meeting	IT-2 Excavation and Filling		washers. (A) Identification markings to conform to ASTM standards specified in the approved construction		
		IT-8 Prestressed Concrete	documents. (B) Manufacturer's certificate of compliance req. ASTM, AISC ASD, Sec. A3.3		
This and all supsequent reports, logs, testing results, and other related SI documents shall be turned in o the building inspections office within 10 business days of the even documented. Only documents that are prepared by Authorized Special Inspectors (ASI), and signed/sealed by Designated Special Inspectors DSI) are valid and are permitted to be turned in to the building inspections office. The DSI will notify the	Check if Required (Standard & Code Reference) Continuous Inspections Periodic Inspections Inspections Firm Continuous Inspections Inspections Firm	Check if Inspection Task Continuous Periodic Special Notes & Scope	Inspection of high-strength botting: Bearing type connections. AISC LRFD Sec. M2.5, 1704.3.3		
Department upon the discovery of information that would controvert the result of any information reported and update said information within 10 days. The DSI is responsible for verifying all information on each document prior to signing/segling and	Excavation & Filling IBC 1704.7 and 3304	Required (Standard & Code Reference) Inspections Inspections Inspections Firm	Inspection of high-strength		
The DSI is responsible for verifying all information on each document prior to signing/sealing and surning it in. The DSI is responsible for verifying each document that is reported to the inspection office the correct document.		All prestressed concrete design and construction to be in accordance with ACI 318.99 (IBC)	botting: Slip-critical connections. AISC LRFD Sec. M2.5, 1704.3.3 Material verification of structural steel: (A)		
The DSI is responsible for correcting any documents that have incorrect attributes or contain errors, and resubmitting the correct information or document to the inspection office. The DSI is responsible for verifying all ASI's maintain current certifications during the source of the project, as follows to maintain current certifications may result in a voided document. At			structural steel: (A) Identification markings to conform to ASTM standards specified in the approved		
necorrect attributes or contain errors, and resubmitting the correct information or document to the inspection office. The DSI is responsible for verifying all ASI's maintain current certifications during the course of the project, as failure to maintain current certifications may result in a voided document. At the conclusion of each individual Special Inspection Item, the DSI will complete a Final Report and urn it in to the DPIRC and the Building Inspector. The DPIRC is responsible for completing the DPIRC letter at the conclusion of all Special Inspections.			construction documents. (B) Manufacturer's certified mill test reports. ASTM A 6		
The Special Inspection program outlined herein, does not relieve the Contractor or any other entity of any contractural duties, including quality control, quality assurance, or safety. The contractor is colely responsible for construction means, methods, and job site safety. Failure to adhere to the SI program as outlined herein, may result in a stop work notice being issued by the	IT-3 Piling and Drilled Piers	IT-9 Inspection of Pre-Cast Concrete Fabricators	or ASTM A 568, 1708.4 Material verification of weld fillers: (A) Identification		
	Check if Inspection Task Continuous Inspections Inspections Inspections Inspections Inspections Inspections	Check if Inspection Task Continuous Periodic Special Notes & Scope Inspections Inspections Inspections	construction documents. (B) Manufacturer's certificate of compliance required. AISC, ASD, Sec. A3.6 AISC LRFD, Sec.		
Perpectfully submittee		Inspection of fabricators Inspection of fabricators	ASD, Sec. A3.6 AISC LRFD, Sec. A3.5 Inspection of welding: (A) Structural Steel. (I) Complete		
Respectfully submittes, The Design Professional in Responsible Charge, A. Stractural Engineer H. Eugene Hunter, Maryland License #21232		the requirements set forth in the IBC Sec. 1704.2	E partial penetration groove		
Respectfully submittes, The Design Professional in Responsible Charge, A. Brycytical Papineer H. Eugene Hunter, Maryland License #21232 03/18/2022 Date	IT-4 Modular Retaining Walls		welds. (3) Single pass filet welds. %" (7.9 mm). (4) Floor £ deck welds. (B) Reinforcing steel. (1) Verification of		
Date	11-4 Modular Retaining Walls		weldability of reinforcing steel other that ASTM A 706. (2) Reinforcing steel-resisting flexural & axial forces in		
Owner Authorization	Check if Inspection Task Continuous Inspections Inspections Inspections Firm	IT-10 Inspection of Structural Steel Fabricators	intermediate & special moment frames, and boundary elements of special reinforced concrete		
	Modular Retaining Walls IBC 1610 and 1704.13	Check if Inspection Task Continuous Periodic Special Notes & Scope Inspections Inspections Inspections	shear walls and shear		
Schedule of Special Inspection Services		Required (Standard & Code Reference) Inspections Inspections Inspections Firm Welding inspections shall be in compliance with AWSD TBD MBMA CERTIFIED	reinforcement (3) Shear reinforcement. (4) Other reinforcing steel. AWS DI.I, AWS DI.3, AWS DI.4, ACI 318: 3.5.2. I704.3.I. 1903.5.2		
		Li (IBC)	Inspection of steel frame joint details for compliance with approved construction documents: (A) Details such		
Project Name: Dollar General - Store #24l34	IT-5 Reinforced Concrete		as bracing and stiffening. (B) Member locations. (C) Application of joint details at each connection, 1704.3.2		
Date: O3/18/2022 Building Permit Number: Allegany County Revised Date: Project Address: Allegany County Flintstone, Maryland Flintstone, Maryland					
	Check if Required (Standard & Code Reference) Continuous Inspections Special Inspections Inspections Firm Continuous Inspections Special Inspections Inspections Firm	IT-11 Structural Masonry	IT-14 Sprayed Fire Resistant Materials		
	Inspection of reinforcing steel, including pretesting tendons, and placements. ACI 318:3.5, 7.1-7.7 1903.5, 1907.1, 1907.7, 1914.4	Check if Required (Standard & Code Reference) Continuous Inspections Inspections Firm Periodic Inspections Firm	Check if Inspection Task (Standard & Code Reference) Continuous Inspections Inspections Inspections Firm Continuous Inspections Inspections Firm		
The construction divisions which require inspections for this project are as follows:	Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B. AWS DI.4, ACU 318:3.5.2,	As masonry construction begins, the following shall be verified to ensure compliance: (A) Proportions of site prepared mortar. (B)	Spray-applied fire resistant materials, IBC 1704.11		
Insure the scope meets IBC Section 1704 (IBC 2018) and other applicable standards for each Inspection Type.	Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable	Construction of mortan joints. (C) Location of reinforcement & connectors. Art. 2.6A, Art. 3.3B, Art 3.4	IT-15 Exterior Insulation and Finish System (EIFS)		
TBD - Indicates that Special Inspections Firm has vet to be determined.	loads have been increased. 1912.5 Verify use of required	The inspection program shall verify: (A) Size & location of structural elements. (B)	Check if Inspection Task Continuous Periodic Special Notes & Scope Required (Standard & Code Reference) Inspections Inspections		
Indicates that Special Inspections i till has yet to be determined.	design mix. ACI 318: Ch. 4, 5.2-5.4, 1904, 1905.2, 1905.4, 1914.2, 1914.3	Type, size, & location of anchors, including other details of of anchorage of	Firm Firm		
	Sampling fresh concrete and performing slump, air TBD TBD	masonry to structural members, frames or other construction (C) Specified size, grade & type of			
	temperature of fresh concrete at the time of making specimens for strength tests. ASTM C 172,	reinforcement. (D)Welding of reinforcing bars. (E) Protection of masonry	IT-16 Seismic Resistance		
	ASTM C 3I, ACI 3I8: 5.6,5.8, 1905.6, 1914.IO	during cold weather (temperature below 40-F) or hot weather (temperature above 90-F).Section	Check if Inspection Task Continuous Periodic Special Inspections Inspections Inspections Inspections		
	shotcrete placement for	2lO8.9.2.II, Item 2, Sec. 2lO4.3, 2lO4.4, ACI Sec. I.I5.4, 2.I.2. Sec I.I2.	A quality assurance plan Firm with seismic requirements		
	5.IO, 1905.9, 1905.IO, 1914.6, 1914.7, 1914.8 Inspection for maintenance of specified curing	Sec. 2.1.8.6, 2.1.8.6.2, ACI 3.3G, Art. 2.4, 3.4, Art.1.8 Prior to grouting, the	shall be provided in accordance with Section 1705 Architecural components Section 1621,2.1		
	of specified curing	following shal be verified to ensure compliance: (A) Grout space is clean. (B) Placement of reinforcement	Machine Coloration		
	Inspection of prestressed concrete: (A) Application of prestressing forces. (B)	and connectors. (C) Proportions of site-prepared grout. (D) Construction of	Mechanical & electrical components, Section 1707.7		
	Grouting of bonded prestressing tendons in the seismic-force-resisting	mortar joints. Sec I.12, Art. 3.2D, Art. 3.4, Art 2.6B, Art 3.3B			
		Grout placement shall be verified to ensure compliance with code and construction provisions.	IT-17 Smoke Control		
	Ch. 16 Verification of in-situ concrete strength, prior to	Art. 3.5 Preparation of any required group specimens matter	Check if Required (Standard & Code Reference) Continuous Periodic Special Inspections Inspections Inspections Inspections		
	stressing of tendons in positioned concrete, add prior to removal of shores	group specimens, mortar specimens and/or prisms shall be observed. Sec. 2IO5.3, 2IO5.5, Art 1.4	Inspection of smoke control, IBC 1704.14.2		
	and forms from beams and structural slabs. ACI 318: 6.2, 1906.2	Compliance with required inspection provisions of the construction documents			
		and the approved submittals shall be verified. Art. 1.5	IT-18 Detention Basin		
			Check if Inspection Task Continuous Periodic Special Notes & Scope Inspections Inspections Inspections		
	IT-6 Post Tension Slab-on-Ground & Post Tension Concrete	IT 12 \Maldina	Detention basin, IBC		
	Check if Inspection Task Continuous Periodic Special Notes & Scope Inspections Inspections	IT-12 Welding			
	All post tensioned concrete design in construction to be in accordance with ACI 318.99, IBC 1704.4	Check if Required (Standard & Code Reference) Continuous Inspections Inspections Inspections Firm Welding inspections shall	IT-19 Special Cases		
		Welding inspections shall be in compliance with AWSD	Check if Inspection Task Continuous Periodic Special Notes & Scope Inspections Inspections Inspections		
		AWSDI.L. (SCIBC)	Epoxy Anchor Bolt installation		

H. EUGENE HUNTER, P.E. Consulting Structural Engineer (Phone) (704) 574-8083 (Fax) (704) 442-7290 P.O. Box 3210 E-Mail: Matthews, NC 28106 ghunter@carolina.rr.com



STORE PLANNING Inc. 3080 SENNA DRIVE
Matthews, North Carolina 28105
Phone: 704-841-7288
Fax: 704-849-6997



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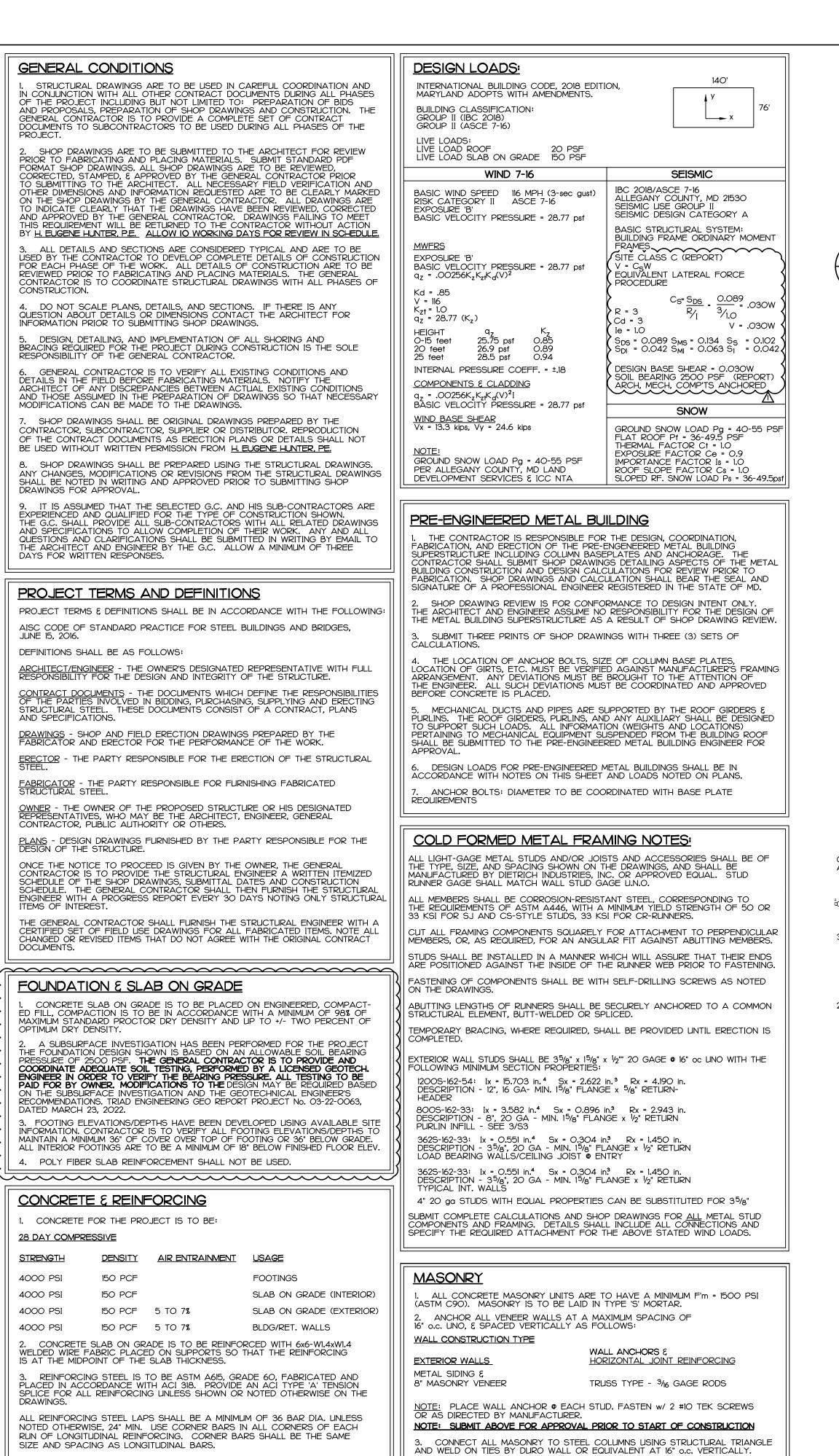
DOLLAR GENERAL #24 ALLEGANY COUNTY N FLINTSTONE, MARYLA

HEH JOB:

DOLLAR GENERAL

STATEMENT OF SPECIAL INSPECTIONS

SPI Client 22116 3-18-22



CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE IN ACCORDANCE

I. GROUT UNDER COLUMN BASE PLATES AND BEAM BEARING PLATES IS TO BE PLACED UNIFORMLY UNDER BEARING PLATES TO THE REQUIRED BEARING

3/4 INCHES

2. ALL FILLED-CELL MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED WITH GROUT.

3. UNITS SHALL BE LAID WITH FULL FACE SHELL MORTAR BEDS. ALL HEAD (END) JOINTS SHALL BE CONTINUOUSLY FILLED WITH MORTAR FOR A

THICKNESS OF THE LONGITUDINAL FACE SHELLS. CROSS WEBS ADJACENT TO VERTICAL CORES TO BE FILLED SHALL BE FULLY BEDDED WITH MORTAR TO

DISTANCE FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THE

PREVENT LEAKAGE OF GROUT.

MASONRY NOTES CONTINUED ON SHEET S4

2 INCHES

2 INCHES

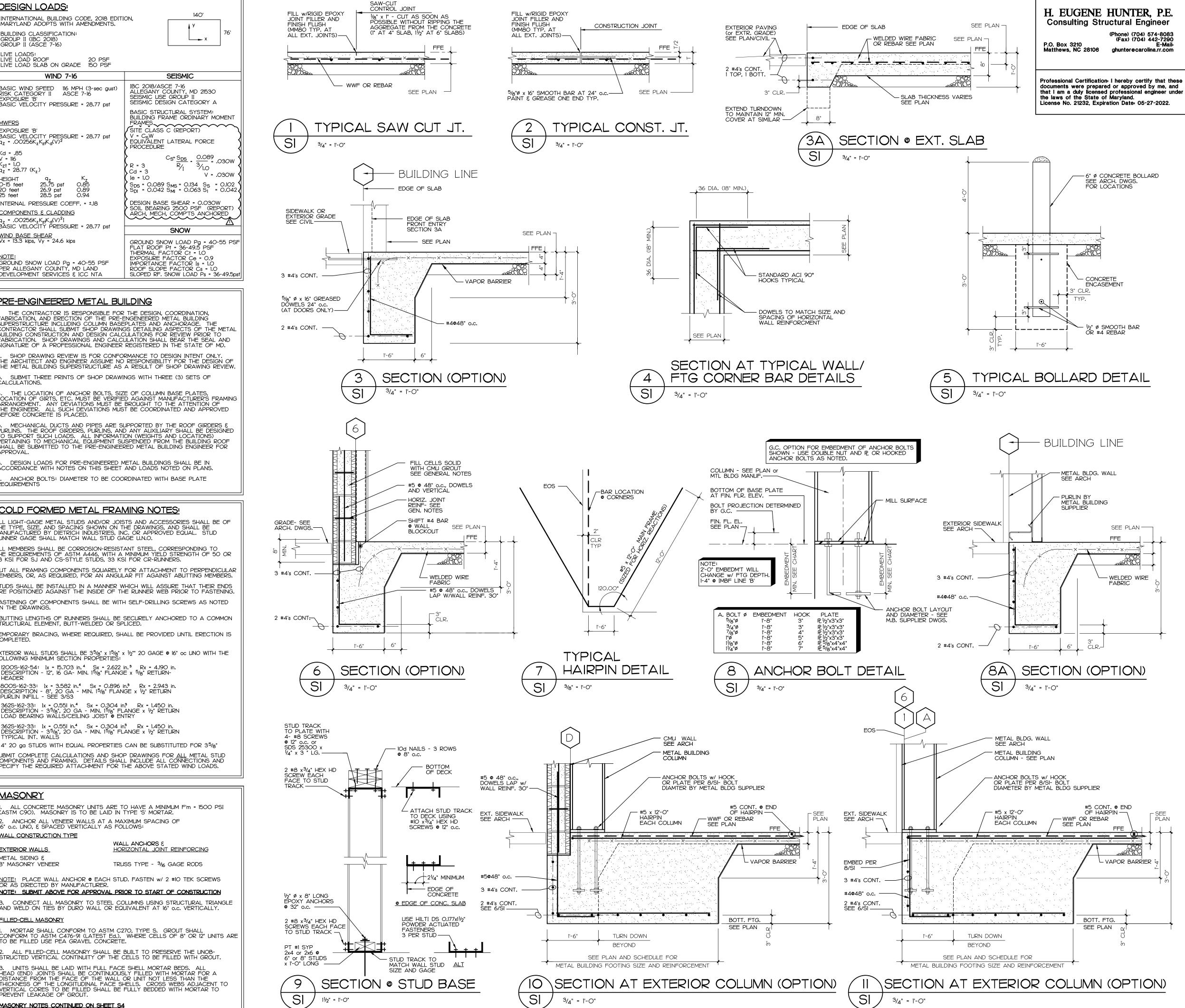
WITH THE FOLLOWING SCHEDULE UNLESS NOTED OTHERWISE.

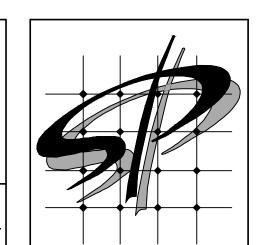
BEAMS AND COLUMNS

BLDG/RETAINING WALLS

NOTE: FLYASH NOT PERMITTED IN CONCRETE

SLABS SLABS ON GRADE





STORE PLANNING Inc 3080 SENNA DRIVE Matthews, North Carolina 28105 Phone: 704-841-7288 Fax: 704-849-6997



REVISION GEOTECH UPDATE

| DATE | **/**i\ 03/28/22

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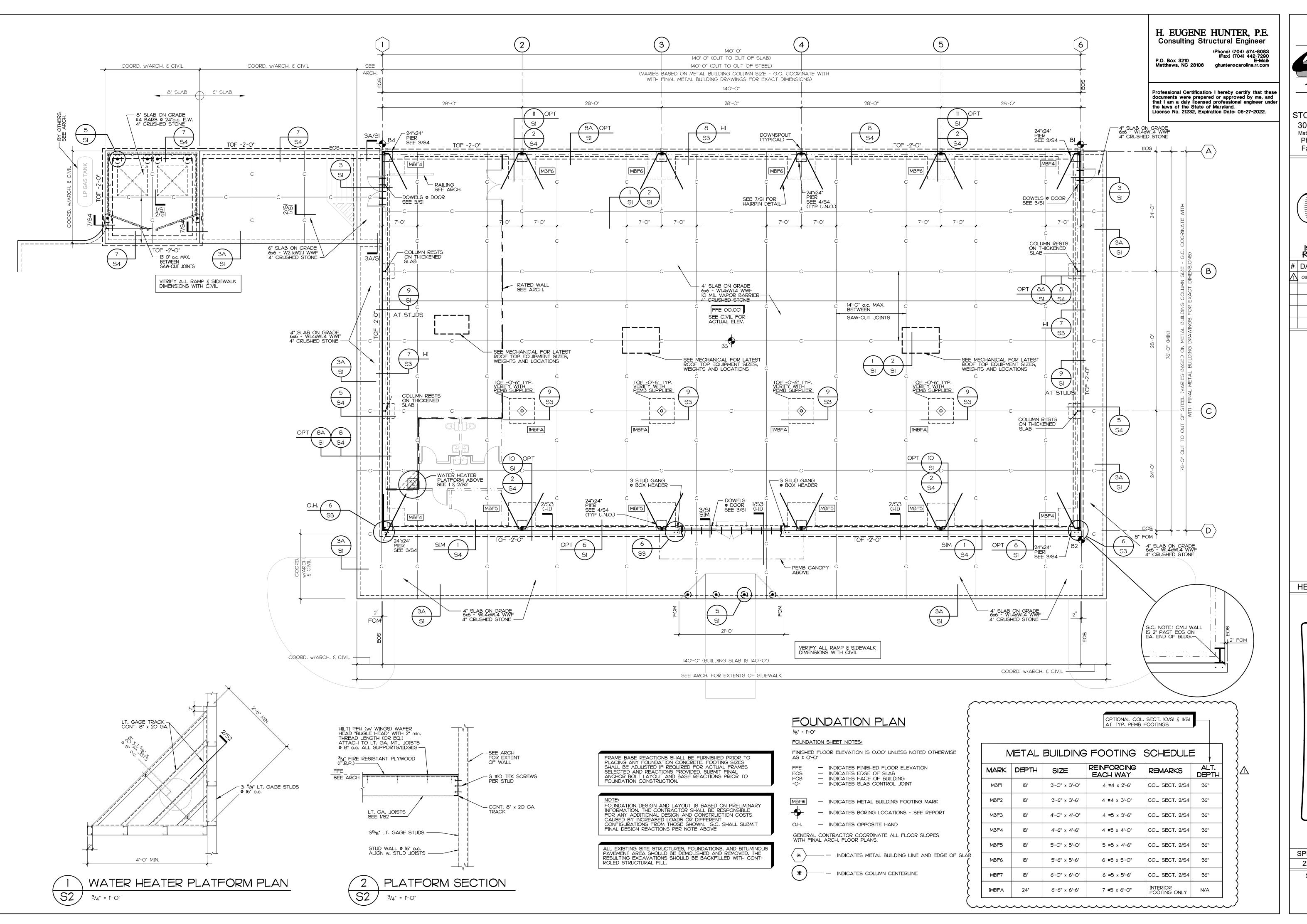
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3-18-22 22116 SHEET NUMBER

SPI Client





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DATE 03/28/22 GEOTECH UPDATE

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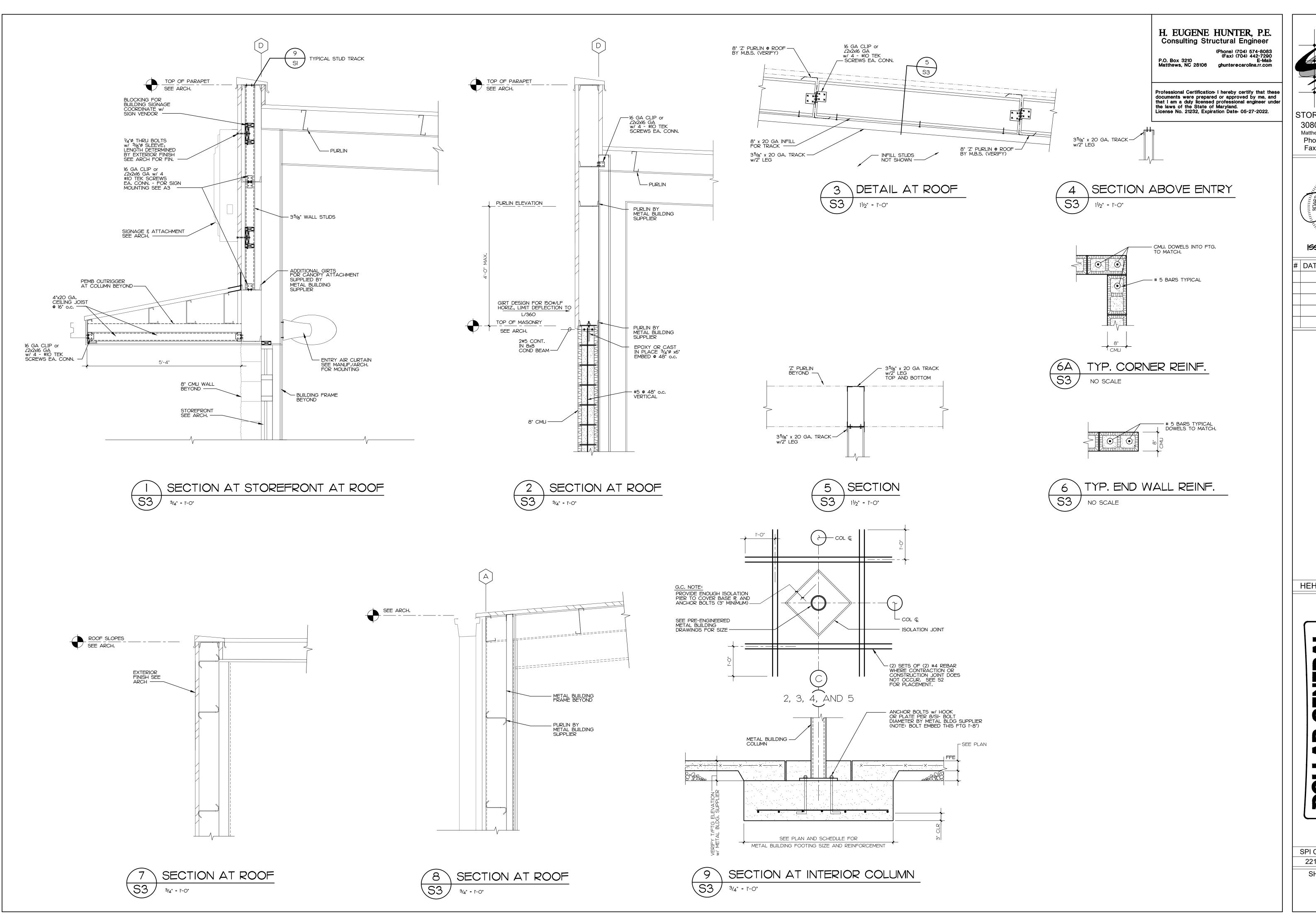
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FOUNDATION PL

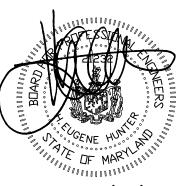
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DOLLAR GENERAL #24 ALLEGANY COUNTY | FLINTSTONE, MARYLA

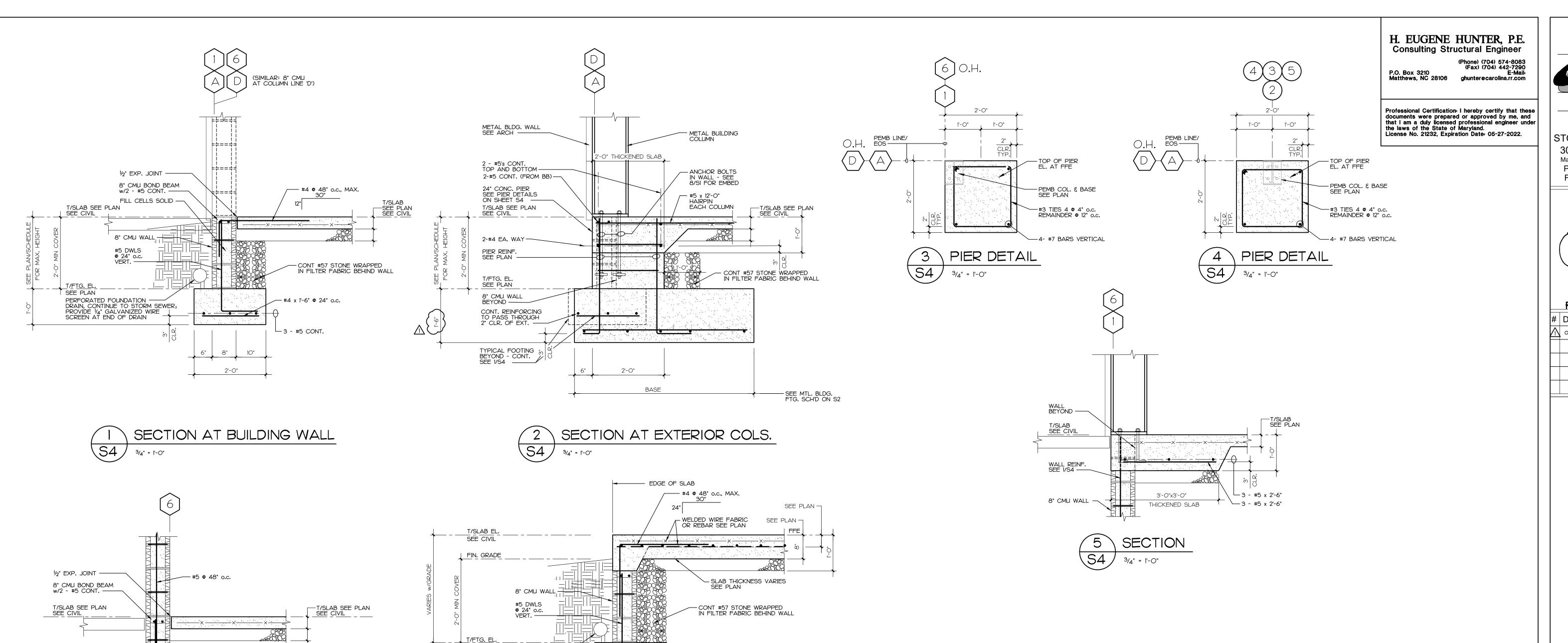
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DOLLAR GENERAL
THE
SECTIONS AND DETAILS

SHEET TITLE

 SPI Client
 DATE

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 3-18-22



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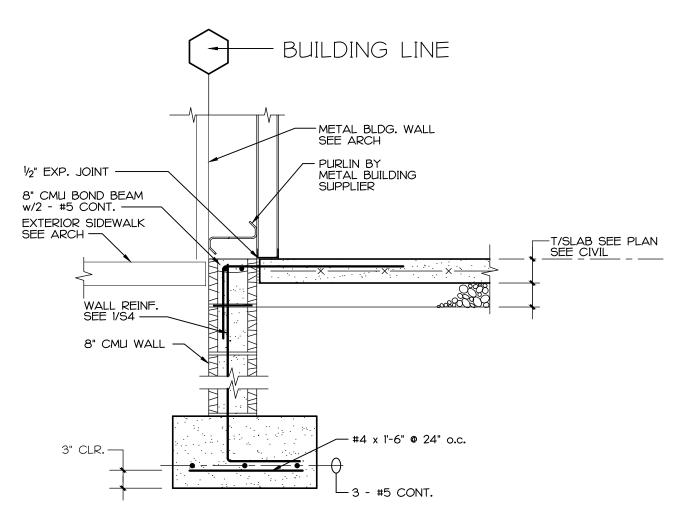
SECTION AT BUILDING WALL SECTION AT DUMPSTER PAD \S4

SEE PLAN

PERFORATED FOUNDATION -

SCREEN AT END OF DRAIN

DRAIN, CONTINUE TO STORM SEWER; PROVIDE 1/4" GALVANIZED WIRE

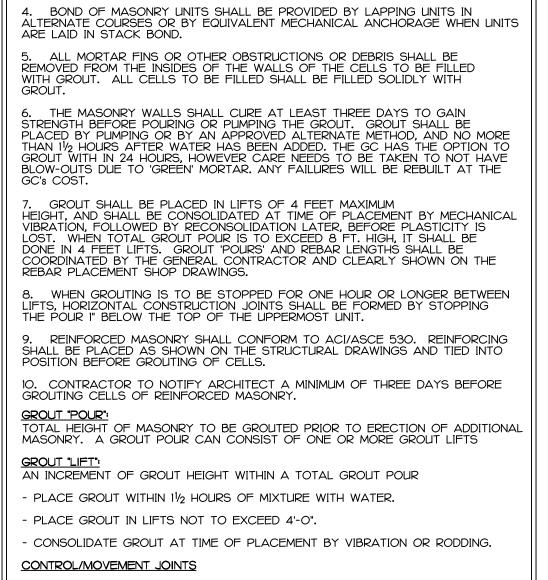


- LAP 30" w/VERT. BARS

WALL REINF. SEE I/S4 —

8" CMU WALL

SECTION AT BUILDING WALL

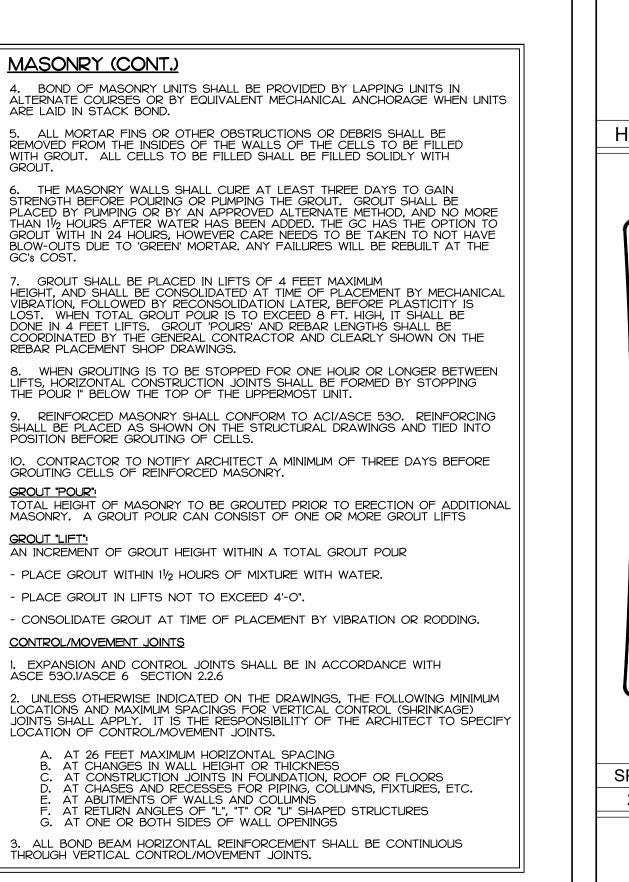


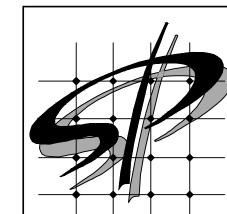
MASONRY (CONT.)

ASCE 530.1/ASCE 6 SECTION 2.2.6

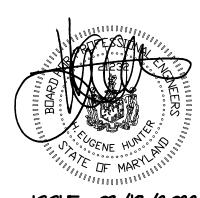
A. AT 26 FEET MAXIMUM HORIZONTAL SPACING B. AT CHANGES IN WALL HEIGHT OR THICKNESS

THROUGH VERTICAL CONTROL/MOVEMENT JOINTS.





STORE PLANNING Inc. 3080 SENNA DRIVE Matthews, North Carolina 28105 Phone: 704-841-7288 Fax: 704-849-6997



DATE REVISION O3/28/22 GEOTECH UPDATE

> 4134 MD AND GENERAL NAY COUNTONE, MARY

HEH JOB: 4434

GE

0

DATE 3-18-22

SPI Client 22116

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

- PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THE PLUMBING SPECIFICATIONS INSOFAR AS THE GENERAL AND SPECIAL CONDITIONS ARE APPLICABLE TO THE PLUMBING WORK, UNLESS OTHERWISE SPECIFIED.
- SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.
- PERMITS: APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, FACILITIES CHARGES AND
- BOND PROPERTY ASSESSMENTS ARE NOT TO BE CONSTRUED TO BE A PART OF THIS CONTRACT. WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF

WORK BY THE OWNER, FOR ALL PLUMBING MATERIALS AND EQUIPMENT.

- COORDINATE ALL PLUMBING PIPING LOCATIONS, ROUGH-IN LOCATIONS AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL PIPING AND EQUIPMENT LOCATIONS SHALL BE A CODE COMPLIANT INSTALLATION FOR ALL TRADES.
- FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.
- CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SURFACES.
- PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF PLUMBING FIXTURES, WALLS, DOORS, WINDOWS, ETC.
- 10. PLUMBING PIPING SHALL BE LOCATED CONCEALED IN WALLS, PARTITIONS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE. PLUMBING PIPING IN EXPOSED AREAS SHALL BE RUN TIGHT TO UNDERSIDE OF STRUCTURE.
- PLUMBING PIPING, VENTS, ETC. EXTENDING THROUGH EXTERIOR WALLS AND/OR THE ROOF SHALL BE FLASHED AND COUNTER FLASHED IN A WATERPROOF MANNER. COORDINATE FLASHING WITH THE GENERAL CONTRACTOR.
- 12. DO NOT INSTALL PLUMBING PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL PLUMBING PIPING SHOWN IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
- 13. PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
- 14. ATTACH HANGERS TO STRUCTURE, HANGERS SHALL NOT ATTACH TO THE DECK. 15. PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC.
- CONCEALED IN MASONRY WALLS, GYPBOARD WALLS AND/OR CEILINGS THAT WILL REQUIRE MAINTENANCE ACCESS.
- 16. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: PLUMBING FIXTURES AND EQUIPMENT, FIRE STOPPING, SEISMIC BRACING, PIPE IDENTIFICATION, DOMESTIC WATER SYSTEM, SANITARY WASTE AND VENT SYSTEM, STORM DRAIN SYSTEM, NATURAL GAS SYSTEM

PLUMBING FIXTURES AND EQUIPMENT:

- PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.
- PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUBSTITUTIONS TO SPECIFIED PLUMBING FIXTURES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO; PROVIDING MAINTENANCE ACCESS CLEARANCE, PIPING, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC. AND ANY MODIFICATIONS TO ASSOCIATED MECHANICAL, ELECTRICAL OR PLUMBING SYSTEMS REQUIRED BY THE EQUIPMENTS INSTALLATION INSTRUCTIONS. ALL COSTS ASSOCIATED WITH SUBSTITUTIONS SHALL BE INCLUDED IN THE ORIGINAL BASE BID.
- ALL HOT, COLD, AND/OR HOT WATER RETURN PIPING ABOVE GROUND AND HORIZONTAL ROOF LEADERS AND ROOF DRAIN BODIES TO BE INSULATED WITH 1" FIBERGLASS INSULATION WITH ASJ JACKET AND PVC FITTING COVERS. ALL JACKETS AND COVERS MUST MEET 25/50 FLAME/SMOKE

FIRE STOPPING:

FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.

SEISMIC BRACING

PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

PIPE IDENTIFICATION:

P01

- PIPE IDENTIFICATION SHALL MATCH THE FACILITY'S EXISTING STANDARD. IF NO STANDARD EXISTS, THEN THE PIPE IDENTIFICATION SHALL BE IN ACCORDANCE WITH ANSI A13.1.
- PROVIDE PIPING LABELS FOR ALL PLUMBING PIPING. PIPING LABELS SHALL BE ACRYLIC FACED, WRAP-AROUND TYPE. EACH LABEL SHALL INDICATE THE PIPING CONTENTS, DIRECTION OF FLOW AND SHALL BEAR THE MANUFACTURER'S STANDARD COLOR FOR THE SERVICE INDICATED.

PLUMBING LEGEND

1 EGIVIBII 40 EEGEI 4B						
EXISTING PIPING	NEW PIPING	ABBR.	DESCRIPTION			
—— (E) ——		CW	COLD WATER PIPING			
—— (E) ——		HW	HOT WATER PIPING			
—— (E) ——		HWR	HOT WATER RETURN PIPING			
—— (E) ——		W	SANITARY WASTE PIPING			
— — (E) — —		V	SANITARY VENT PIPING			
——FW(E)——	FW	FW	FILTERED WATER PIPING			
—— SD(E) ——	——SD——	SD	STORM DRAIN PIPING			
—— ESD(E) ——	——ESD——	ESD	EMERGENCY STORM DRAIN PIPING			
—— G(E) ——	——GAS——	G	NATURAL GAS PIPING			
GW(E)	——GW——	GW	GREASE LADEN WASTE PIPING			
——— D(E) ———	——CD——	CD	CONDENSATE DRAIN			
×-× (E) ×-×-×		-	EXISTING PIPING TO BE REMOVED			
		-	ELBOW DOWN			
	o	-	ELBOW UP			
		-	PIPE CONTINUES			
		-	PIPE CAP			
	── ₩──	-	BALL VALVE			
	─ ─ ↑	CV	CHECK VALVE			
		BV	BALANCING VALVE / CIRCUIT SETTER			
	──── ₩──	-	GAS COCK			
	—— ½ ——	PRV	PRESSURE REDUCING/REGULATING VALVE			
	<u>\S</u>	-	SOLENOID VALVE			

IN-LINE PUMP

PIPE REDUCER

FLOOR CLEAN OUT

WALL CLEAN OUT

YARD CLEAN OUT

FLOOR DRAIN

FLOOR SINK

ROOF DRAIN

THERMOMETER

TRAP PRIMER

PRESSURE GAUGE

CONNECT TO EXISTING

POINT OF DEMOLITION

YCO

FS

RD

END OF LINE CLEAN OUT

HOSE BIBB/WALL HYDRANT

SHOCK ARRESTOR - SUFFIX INDICATES PDI SIZE

HW/HWR DIRECTION OF FLOW

REDUCED PRESSURE ZONE BACKFLOW PREVENTER

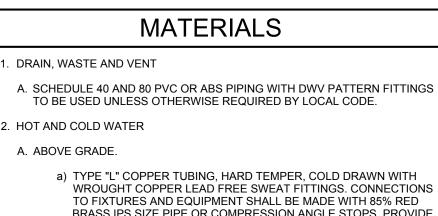
ADDITIONAL ABBREVIATIONS

ABV AFF BAS BEL BF BFF BTUH CFH	ABOVE ABOVE FINISHED FLOOR BUILDING AUTOMATION SYSTEM BELOW BARRIER FREE BELOW FINISHED FLOOR BRITISH THERMAL UNIT / HOUR CUBIC FEET PER HOUR	KW LAV MBH MH PH PSI SF T&P	KILOWATT LAVATORY 1,000 BTUH MOUNTING HEIGHT PHASE POUNDS PER SQUARE INCH SQUARE FEET TEMPERATURE AND PRESSURE
DN FFE	DOWN	VB VLV	VACUUM BREAKER VALVE
	FINISHED FLOOR ELEVATION	VLV VTR	VENT THRU ROOF
FIN	FINISH	WC	WATER COLUMN
FL FR	FLOOR FROM	I WC	WATER COLUMN
FU	FIXTURE UNITS	EC	ELECTRICAL CONTRACTOR
GPM	GALLONS PER MINUTE	FSEC	FOOD SERVICE EQUIP. CONTRACTOR
HP	HORSE POWER	GC	GENERAL CONTRACTOR
INV	INVERT ELEVATION	MC	MECHANICAL CONTRACTOR
IW	INDIRECT WASTE	PC	PLUMBING CONTRACTOR

PLUMBING FIXURE SCHEDULE

1 1							
	MARK	DESCRIPTION	HW CONNECTION	CW CONNECTION	WASTE CONNECTION	VENT CONNECTION	REMARKS
	L-1	ADA LAVATORY	1/2"	1/2"	2"	1-1/2"	20"X18" WALL HUNG ADA LAVATORY W/ FRONT OVERFLOW, CONCEALED HANGERS & 4" CENTERS. AMERICAN STANDARD LUCERNE #0355.012 OR EQUAL. FAUCET SHALL BE POLISHED CHROME-PLATED CAST BRASS BODY WITH 4" SPOUT, 4" BRASS WRIST BLADE, 0.5 GPM SPRAY & GRID STRAINER DRAIN. AMERICAN STANDARD MONTERREY #5501.175 WITH WATTS MODEL USG-B-M1 TEMPERING VALVE OR EQUAL. INSULATE EXPOSED DRAIN & WATER PIPES WITH TRUEBRO LAV GUARD KIT #102 E-Z. PROVIDE SUPPLY LINES, STOP VALVES & P-TRAP.
	WC1	ADA WATER CLOSET	-	1/2"	4"	2"	FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.28 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET & FLUSH TANK WITH 12" ROUGH-IN, AMERICAN STANDARD CHAMPION PRO "RIGHT HEIGHT" #211AA.104 OR EQUAL. PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE & OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL).
	WC2	ADA WATER CLOSET RIGHT- HAND TRIP LEVER	-	1/2"	4"	2"	FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.28 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET & FLUSH TANK WITH 12" ROUGH-IN, AMERICAN STANDARD CHAMPION PRO "RIGHT HEIGHT" #211AA.104 OR EQUAL WITH ALTERNATE TANK ASSEMBLY #4225A.105 (RIGHT HAND TRIP LEVER). PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE & OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL).
	EWH-1	ELECTRIC WATER HEATER	3/4"	3/4"	-	-	PROVIDE 10 GALLON ELECTRIC WATER HEATER, 1.65KW @ 120V WITH MANUFACTURER SUPPLIED TEMPERATE AND PRESSURE RELIEF VALVE. (A.O. SMITH #EJC-10, OR EQUAL). SET WATER HEATER TEMPERATURE AT 110°F MAXIMUM. PROVIDE THERMAL EXPANSION TANK. (AMTROL THERM-X-TROL ST-12, OR EQUAL). EXPANSION TANK SUPPORT: IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SUPPORT FOR THE EXPANSION TANK. SUPPORT TO ADJACENT WALL OR FROM EXISTING STRUCTURE ABOVE WITH UNISTRUT. DO NOT SUPPORT FROM PIPE ALONE. PROVIDE DRAIN PAN UNDER WATER HEATER. PROVIDE SEISMIC STRAPPING ON WATER HEATER. TERMINATE (EWH-1) DRAIN LINE IN MOP SINK (MS-1). PROVIDE FULL SIZE T&P RELIEF LINE. REFER TO WATER HEATER DETAIL ON SHEET P2 FOR ADDITIONAL INFORMATION.
	FD	FLOOR DRAIN	-	-	3"	2"	ZURN Z415-6B-P 6" ZURN FLOOR DRAIN WITH "TYPE B" ROUND STRAINER AND 1/2" TRAP PRIMER CONNECTION.
	TP	TRAP PRIMER	-	1/2"	-	-	PROVIDE PRESSURE DROP ACTIVATED BRASS TRAP SEAL PRIMER, WITH REMOVABLE FILTER SCREEN. MIFAB #M2-500. NO SUBSTITUTIONS. PROVIDE AIR GAP FITTING. MIFAB #MIGAP. NO SUBSTITUTIONS. PROVIDE DISTRIBUTION UNIT, WHERE TRAP PRIMER SERVES MULTIPLE FLOOR DRAINS, MIFAB #MI-DU-500. NO SUBSTITUTIONS.
	MSB	MOP SINK	3/4"	3/4"	3"	2"	24" X 24" MOLDED STONE MOP SERVICE BASIN, WITH 3' DRAIN. FIAT #MSB-2424 OR EQUAL. PROVIDE SERVICE FAUCET WITH PAIL HOOK & INTEGRAL VACUUM BREAKER, MOP BRACKET, FLAT STAINLESS STEEL STRAINER AND HOSE & BRACKET. FIAT #830 AA, 889 CC, 1453 BB & 832 AA OR EQUAL. PROVIDE SUPPLY LINES AND P-TRAP.
	DF	BARRIER FREE ELECTRIC DRINKING FOUNTAIN	-	1/2"	2"	1-1/2"	TWO-STATION, WALL MOUNTED, ELECTRIC DRINKING FOUNTAIN, BARRIER-FREE ACCESS (ADA), FRONT ONLY EASY TOUCH CONTROL, HIGH UNIT ON RIGHT. ELKAY #EZSTDDLC OR EQUAL. PROVIDE SUPPLY LINE, STOP VALVE & P-TRAP. PROVIDE CANE APRON AS REQUIRED.
	FPHB	WALL HYDRANT	-	3/4"	-	-	FREEZE-PROOF WALL HYDRANT WITH BRONZE BODY & ANTI-SIPHON VACUUM BREAKER, BOX AND LOCKING COVER. PROVIDE WITH HOSE CONNECTION AND MOUNT AT 24" ABOVE GRADE. ZRUN #1320 OR EQUAL.
	WCO	WALL CLEAN-OUT	-	-	AS SHOWN ON PLANS	-	SIZE & INSTALL AS SHOWN ON PLANS. ZURN Z1441 OR EQUAL.
	ECO-1	EXTERIOR CLEAN-OUT	-	-	4"	-	PROVIDE TRAFFIC RATED, 2-WAY, EXTERIOR CLEANOUT. TYLER PIPE #003519, OR EQUAL.
	ECO 1	FLOOR			AS SHOWN ON		PROVIDE ADJUSTABLE FLOOR CLEANOUT WITH WATERTIGHT TAPERED THREADED PLUG AND ROUND SCORIATED

STUD IN WALL



CLEAN-OUT

TO FIXTURES AND FOUIPMENT SHALL BE MADE WITH 85% RED BRASS IPS SIZE PIPE OR COMPRESSION ANGLE STOPS. PROVIDE DIELECTRIC UNIONS WHERE CONNECTING PIPING OF DISSIMILAR B. BELOW GRADE. b) TYPE "K" COPPER TUBING, HARD OR SOFT TEMPER, WITH

WROUGHT COPPER LEAD FREE SWEAT FITTINGS, NOTE: NO FITTINGS SHALL BE PERMITTED BELOW GRADE INSIDE BUILDING . AIR CONDITIONING CONDENSATE

A. SEE MATERIALS, SECTION 1, UNLESS OTHERWISE REQUIRED BY CODE.

RTU-2 (NEW)

RTU-3 (NEW)

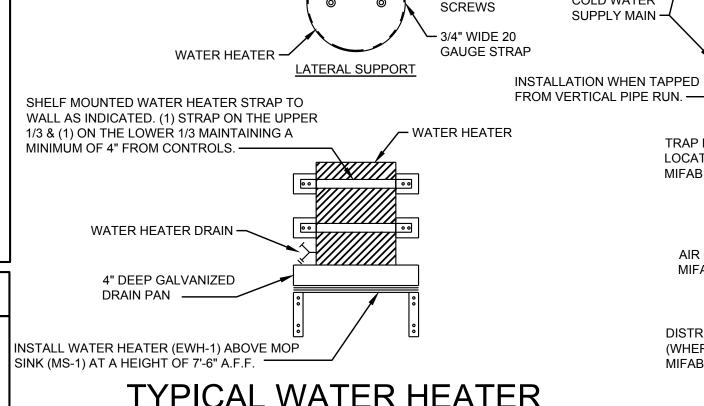
TOTAL NEW GAS LOAD

GAS LOAD TABLE

PRESSURE I SPECIFIC GF STEEL (SCH LENGTH: 200 FITTINGS FA EQUIVALENT	LESS THAN 2PSI DROP: 0.5 IN.W.C. RAVITY: 0.60 D. 40) D FT CTOR: 1.5 I LENGTH: 300 FT.	NOTES: GAS PIPING IS SIZEI NATURAL GAS (LES: PRESSURE) AND WI UNDILUTED PROPAI INLET PRESSURE.) I BASED ON SCHEDU PIPING. CONTRACTO LONGEST RUN LENO APPLIANCE TO PRO PROVIDE PRESSUR EACH UNIT PER MAI RECOMMENDATION	S THAN 2 PSI INLET LL WORK FOR NE (11.0 INCH WC PIPING SIZES ARE LE 40 METALLIC OR SHALL VERIFY GTH OF PIPE FROM DPANE TANK. E REGULATOR AT NUFACTURER'S
1-1/4"	221		
1-1/2"	331	DESCRIPTION	GAS LOAD (CFH)
2"	638	RTU-1 (NEW)	200

2-1/2" 1,020

1,800



PLANS

METAL CUP WITH (3) SHEET

METAL SCREWS FASTENED

TO BOTH STUDS -

TYPICAL WATER HEATER STRAPPING DETAIL P01 NTS 1/2" COPPER TUBING TRAP SUPPLIES

> 3/4" C.W. INLET. INSTALL HEAT TRAPS (NOT SHOWN) IN C.W. INLET PIPING AS CLOSE TO WATER HEATER AS POSSIBLE -

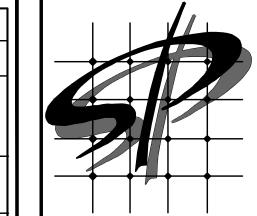
3/4" H.W. OUTLET. INSTALL HEAT TRAPS

(NOT SHOWN) IN H.W. OUTLET PIPING AS

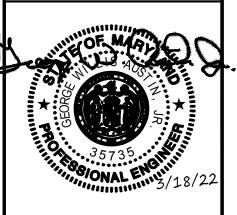
CLOSE TO WATER HEATER AS POSSIBLE -

FLOOR-

P01



STORE PLANNING In 3080 SENNA DRIVE Matthews, North Carolina 28105 Phone: 704-841-7288 Fax: 704-849-6997



Professional Certification, I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland License Number 35735 Expiration Date 7/16/2022

#	DATE	REVISION
·		

GENEI ANY CO ONE, N

0

PLUMBING

DATE SPI Client 3-18-22 22116 SHEET NUMBER

SHEET BETWEEN FLOOR TO FLOOR DRAIN TRAPS. NO FITTINGS STUDS. BELOW SLAB. SEE PLAN, SHEET P1). -TRAP PRIMER DETAIL

VACUUM BREAKER

HEIGHT OF 7'-6" A.F.F.

HEATER SHELF.

SERVICE FAUCET

--- MOP SINK (MS-1)

WATER HEATER DETAIL

- HOSE & HOSE BRACKET

- DIELECTRIC OUTLET HEAT TRAP

— (EWH-1) INSTALL WATER HEATER ABOVE MOP SINK

NOTE: ELECTRIC WATER HEATER (EWH-1) SHALL

(MS-1). PLATFORM SHALL BE INSTALLED AT A

SIMILARLY BE INSTALLED ABOVE ELECTRIC DRINKING FOUNTAIN (EDF-1) JUST ABOVE CEILING.

REFERENCE ARCH. DETAIL FOR WATER

- 4" DEEP GALVANIZED DRAIN PAN.

— MOP BRACKET. INSTALL SO MOP

ALWAYS DRIP INTO MOP SINK (MS-1)

FULL SIZE DRAIN LINE, ROUTE AND

TERMINATE 2" ABOVE MOP SINK (MS-1).

NOTE: ELECTRIC WATER HEATER (EWH-1)

SHALL BE ROUTED TO HUB DRAIN (HD-1).

GEORGE W AUSTIN JR, PE

908 Applegate Parkway

BALL VALVE — 🛨

1/2" CW —

TRAP PRIMER VALVE,

AIR GAP FITTING

DISTRIBUTION UNIT

(COORDINATE WITH ACTUAL NUMBER OF

FLOOR DRAIN/HUB DRAIN). ROUTE BELOW

P01 NTS

(WHERE REQUIRED).

MIFAB #MI-DU, OR EQUAL —

LOCATED WITHIN WALL.

MIFAB #M2-500, OR EQUAL. —

MIFAB #MIGAP, OR EQUAL. —

- COLD WATER

SUPPLY MAIN

FLOOR DRAINS

MAXIMUM).

TRAP PRIMER

VALVE SHALL

BE MOUNTED 1'-0" A.F.F. FOR

EVERY 20'-0" OF

PRIMER LINE

MINIMUM 1'-0"

SECURE

A.F.F.

lacksquare when required,

DISTRIBUTION

UNIT TO BACKING

DISTRIBUTION UNIT SHALL BE

USED WHERE TRAP PRIMER

VALVE SERVES MULTIPLE

(UP TO 3 FLOOR DRAINS

SECURELY ATTACHED TO

- 24" X 24" ACCESS

PANEL AND FRAME

ALL PIPING SHALL BE

 ${\sf I}$ SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL.

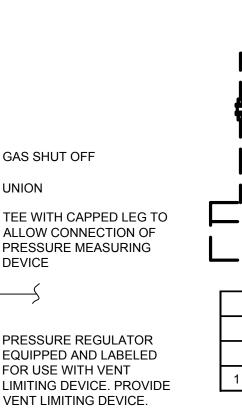
COLD WATER

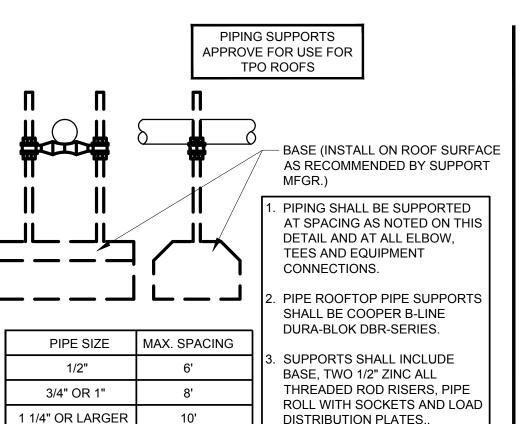
SUPPLY MAIN -

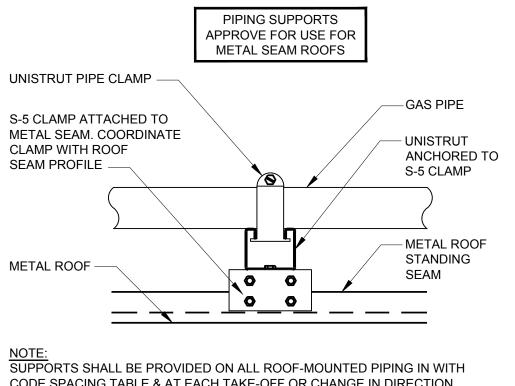
- (2) SHEET METAL

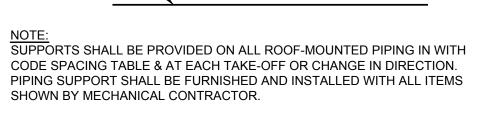
ISTALLATION WHEN TAPPED

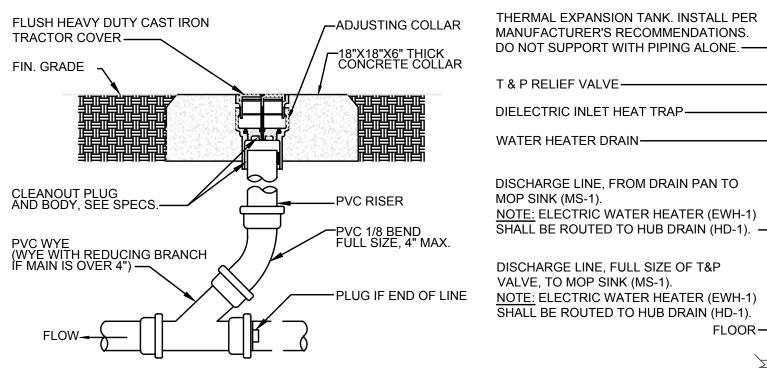
FROM HORIZONTAL PIPE RUN. -

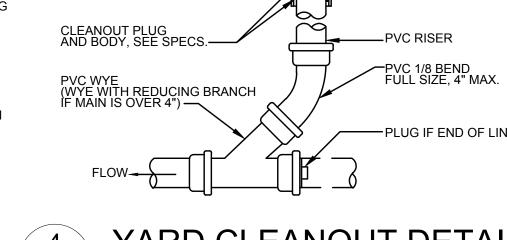








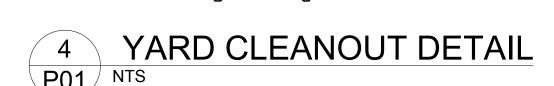


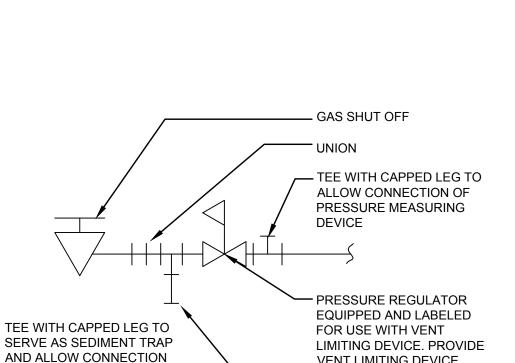


200

67

467 CFH

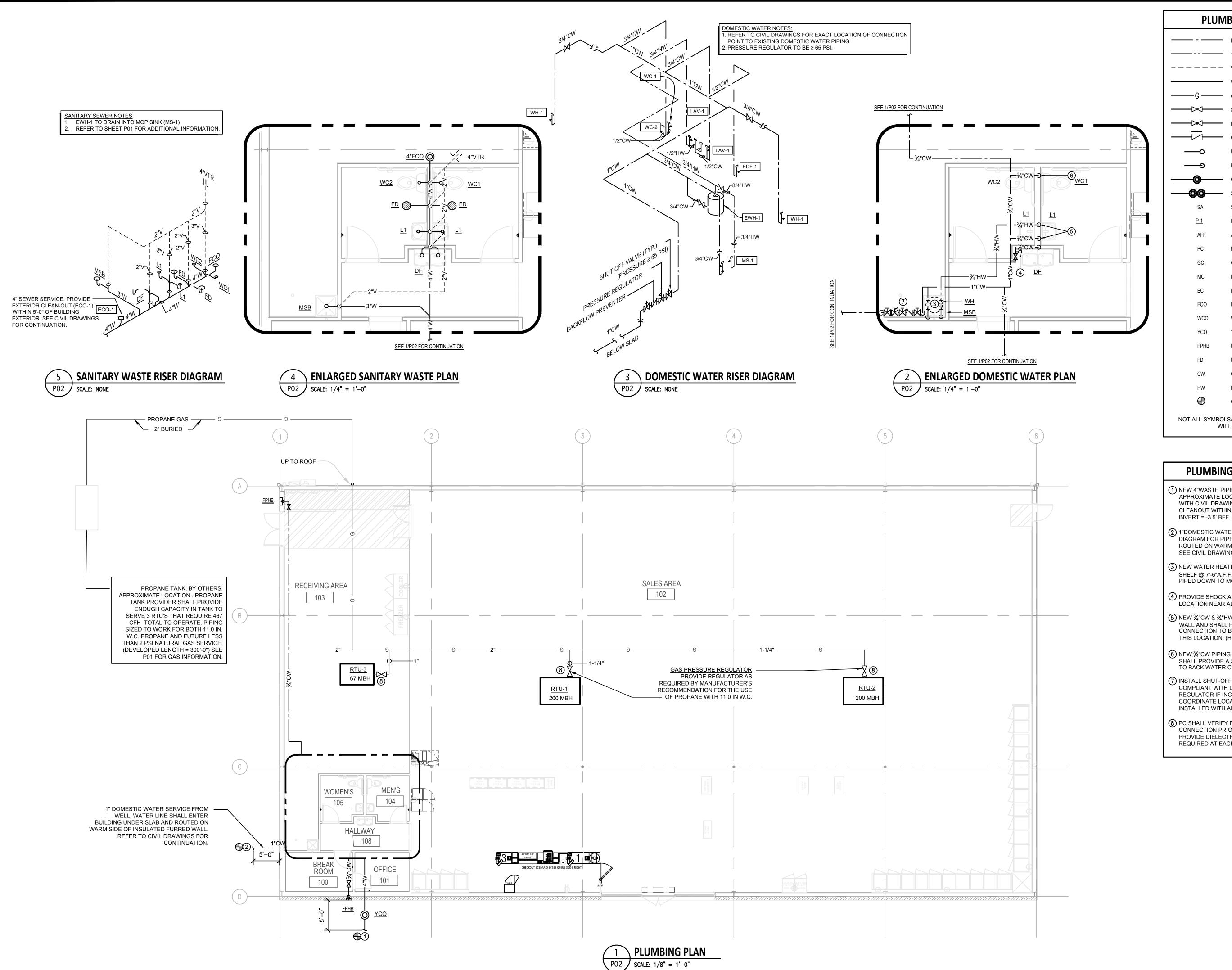


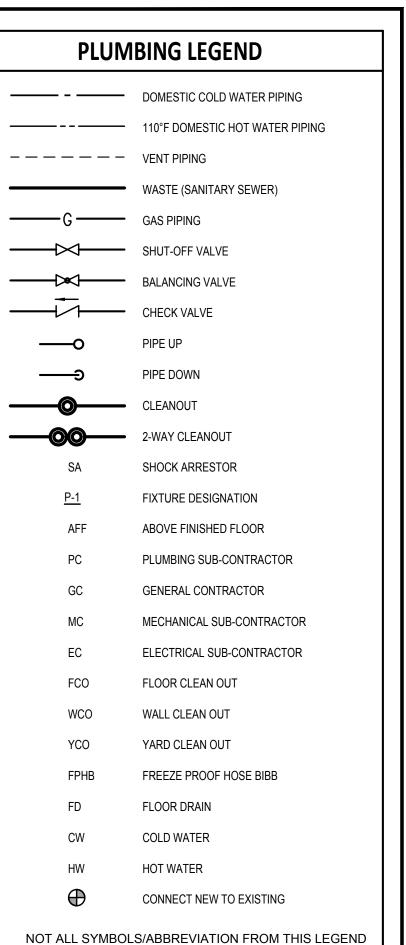












PLUMBING NEW WORK NOTES

NEW 4"WASTE PIPING EXITS BUILDING AT THIS
 APPROXIMATE LOCATION. COORDINATE 4"WASTE TIE-IN
 WITH CIVIL DRAWINGS. PROVIDE 2-2WAY EXTERIOR
 CLEANOUT WITHIN 5' FROM BUILDING'S EXTERIOR.

INVEST. - 2.5' PEE

WILL APPEAR IN DRAWING.

- (2) 1"DOMESTIC WATER SERVICE AND METER. SEE WATER DIAGRAM FOR PIPE ROUTING. WATER LINE SHALL BE ROUTED ON WARM SIDE OD INSULATED FURRED WALL. SEE CIVIL DRAWINGS FOR CONTINUATION.
- (3) NEW WATER HEATER <u>EWH-1</u> TO BE MOUNTED ON SHELF @ 7'-6"A.F.F. $\frac{3}{4}$ "CW IN, $\frac{3}{4}$ "HW OUT, 1" DRAIN PIPED DOWN TO MOPSINK BELOW. SEE DETAILS.
- PROVIDE SHOCK ARRESTOR AT THIS LOCATION OR IN A LOCATION NEAR ADJACENT LAY-IN CEILING.
- (5) NEW ¾"CW & ¾"HW PIPING SHALL BE PIPED DOWN IN WALL AND SHALL PROVIDE A ½"CW & ½"HW CONNECTION TO BOTH BACK TO BACK LAVATORIES AT THIS LOCATION. (HW ON LEFT, CW ON RIGHT).
- 6 NEW ¾"CW PIPING SHALL BE PIPED DOWN IN WALL AND SHALL PROVIDE A ½"CW CONNECTION TO BOTH BACK TO BACK WATER CLOSETS AT THIS LOCATION.
- INSTALL SHUT-OFF VALVE, BACK FLOW PREVENTER COMPLIANT WITH LOCAL JURISDICTION AND PRESSURE REGULATOR IF INCOMING PRESSURE EXCEEDS 65PSI. COORDINATE LOCATION FOR DEVICES TO BE INSTALLED WITH ARCHITECT.
- 8 PC SHALL VERIFY EXACT LOCATION OF GAS CONNECTION PRIOR TO INSTALLING ANY GAS PIPING. PROVIDE DIELECTRIC UNION, VALVE, AND DRIP LEG AS REQUIRED AT EACH UNIT.



SPI Client
22116
SHEET NU

P02

DATE 3-18-22

STORE PLANNING Inc.
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Matthews, North Carolina 28105
Phone: 704-841-7288
Fax: 704-849-6997



'Professional Certification, I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland License Number 35735 Expiration Date 7/16/2022

DATE	REVISION

DOLLAR GENERAL #24' ALLEGANY COUNTY N FLINTSTONE, MARYLAI

AR GENERAL

5

AND NOTE

DIFFU	DIFFUSER SCHEDULE										
SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL No.	NOTES
A	AS NOTED	AS NOTED	AS NOTED	SEE PLANS	LOUVER	YES	ALUMINUM	SUPPLY	NOTE 2	TITUS TDC	1
B	AS NOTED	AS NOTED	AS NOTED	SURFACE	DBL DEFL	YES	ALUMINUM	SUPPLY	NOTE 2	TITUS 300	1
C	AS NOTED	AS NOTED	AS NOTED	SURFACE	LOUVER	NO	ALUMINUM	RETURN	NOTE 2	TITUS 350ZFL	1
D	AS NOTED	BY MANUFACTURER	BY MANUFACTURER	BY MANUFACTURER	CONCENTRIC	BY MANUFACTURER	BY MANUFACTURER	SUPPLY/ RETURN	NOTE 2	SEE NOTE 3	1 3

1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:

DIFFUSER OR 9x9 DIFFUSER TYPE NECK SIZE. AS NOTED ABOVE 3. PROVIDE CONCENTRIC DIFFUSER KIT AS SPECIFIED BY DOLLAR GENERAL NATIONAL ACCOUNTS HVAC MANUFACTURER CARRIER. (NO EXCEPTIONS PERMITTED) CONCENTRIC DIFFUSER KIT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONCENTRIC DIFFUSER SHALL BE HARD DUCTED FROM HVAC UNIT. THE USE OF FLEXIBLE DUCT DROPS ARE NOT ALLOWED, NO EXCEPTIONS.

2. COORDINATE FINISH TO MATCH OR BE ABLE TO MATCH ITS SURROUNDINGS.

COORDINATE COLOR WITH ARCHITECT/OWNER.

PACKA	PACKAGED DX COOLING GAS HEATING ROOFTOP UNIT SCHEDULE																		
LIANT	NOMINAL	ADEA		SUPPLY — FAN DATA				HEATING COOLING CAPACITY CAPACITY			ELECTRICAL DATA			WEIGHT	AAANI IFACTI IDED				
UNIT NO.	TONS COOLING	AREA SERVED	TOTAL CFM	O/A CFM	EXT. S.P. (IN.WG)	FAN RPM	MOTOR H.P.	INPUT MBH	OUTPUT MBH	TOTAL MBH	SENSIBLE MBH	EAT DB/WB	MINIMUM SEER/EER	VOLT/PH	MCA	MOCP	WEIGHT (LBS.)	MANUFACTURER & MODEL	NOTES
RTU-1, 2	10	SEE PLANS	4000	SEE SCHEDULE	0.6	BY MFG	3.0	200	160	124	96	80/67	11.2 EER	208/3/60	53	60	1100	CARRIER 48TCFD12A2A5	1-6
RTU-3	3	SEE PLANS	1200	SEE M2	0.5	BY MEG	0.5	67	54	37.07	25.40	80/67	14.0 SEER	208/3/60	22	30	522	CARRIER 48FCDA04A3A5	1-6

- PROVIDE WITH FACTORY MOUNTED NON-POWERED GCFI OUTLET.
- PROVIDE WITH THROUGH THE BASE GAS AND ELECTRIC. INSULATED ROOF CURB MUST BE PURCHASED THROUGH THE ROOF MANUFACTURER, COORDINATE WITH DOLLAR GENERAL REPRESENTATIVE.
- 4. FACTORY INSTALLED: THRU-THE-BASE CONNECTIONS, BELT DRIVE BLOWER
- 5. FACTORY FURNISHED FOR FIELD INSTALLATION: ECONOMIZER WITH BAROMETRIC RELIEF FOR RTU-1 AND 2, MANUAL OUTSIDE AIR DAMPER WITH LOCKING QUADRANT FOR RTU-3, DUAL ENTHALPY SENSOR,' CONCENTRIC DIFFUSER KIT, SUPPLY AND RETURN AIR SMOKE DETECTORS.
- 6. PROVIDE WITH PROPANE GAS CONVERSION KIT.

FOR DOLLAR GENERAL NATIONAL ACCOUNT: 973-222-6742 HASAN.KHALIL@CARRIER.COM BOB.ECKWEILER@CARRIER.COM

FAN SC	CHEDULE												
UNIT	SERVICE	AREA	MANUFACTURER	FAN TYPE &	CFM	S.P.	RPM	MOTOR	DRIVE	ELECTRIC	AL DATA	CONTROL SCHEME	ACCESSORIES
DESIG.	SERVICE	SERVED	& MODEL #	ARRANGEMENT	CFM	J.F.	KEM	FLA	TYPE	HP/WATTS	VOLT/PH	NOTE NOTE	NOTES
EF-1,2	EXHAUST	TOILETS	GREENHECK SP-80-VG	CEILING MNTD FAN	75	0.375"	BY MFG	SEE MANF.	DIRECT	6.1W	115/1ø	A	SEE BELOW

NOTES: SCREEN

3. UL RATED

2. BACKDRAFT DAMPER

4. INTEGRAL DISCONNECT SWITCH

5. PROVIDE WITH SPEED CONTROLLER

A. INTERLOCK WITH LIGHTS (MOTION SENSOR BY EMS)

L-1 - EXHAUST LOUVER RUSKIN MODEL ELF375DX - 12" WIDE x 12" TALL

ELF375DX IS A STATIONARY LOUVER, EXTRUDED ALUMINUM CONSTRUCTION. PROVIDE LOUVER TO MATCH WALL CONSTRUCTION TYPE.

150 CFM (MAX), 0.29 SF, 517 FPM INTAKE VELOCITY, 0.1" PRESSURE DROP, 873 FPM WATER PENETRATION VELOCITY.

PROVIDE LOUVER L-1 WITH: 1 2 3

ACCESSORIES: 1) INSECT SCREEN 2 KYNAR FINISH 3 COLOR AS DIRECTED BY ARCHITECT

AIR DOOR SCHEDULE

MARK	СҒМ	VELOCITY MAX	FLA (SINGLE PHASE)	HP	AREA SERVED	MODEL	MANUFACTURER	VOLTAGE/PHASE	REMARKS
AD-1	2758	5960	10.2	1/2	SEE PLANS	NQP1072-2UA-AL	MARS AIR SYSTEMS	115V/1PH/60HZ	1,2

NOTES:

- FACTORY PROVIDED, WIRED AND UNIT MOUNTED SPEED CONTROLLER LOCATED ON BOTTOM.
- 2. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.

MECHANICAL GENERAL NOTES

- 1. FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH RECOMMENDED PRACTICE AND ALL APPLICABLE CODES.
- 2. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS & REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- 3. ALL MECHANICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR, EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER. REFRIGERANT COMPRESSORS SHALL BE GUARANTEED FOR FIVE YEARS.
- DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SHOW ALL REQUIRED FITTINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE TYPE, SIZE AND LOCATION OF ALL AIR DEVICES, DUCTWORK, PIPING AND EQUIPMENT WITH THE CEILING PLAN, LIGHTS, STRUCTURAL ELEMENTS AND OTHER TRADES. CONTRACTOR TO FURNISH AND INSTALL ALL BENDS, OFFSETS, ELBOWS, ETC. AS REQUIRED. VERIFY ALL CLEARANCES PRIOR TO FABRICATING DUCTWORK OR ORDERING EQUIPMENT.
- 6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING MATERIALS AND INSTALLING THE WORK IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.

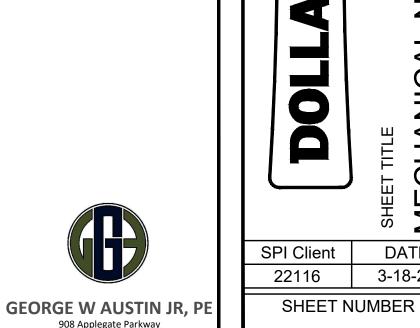
DUCTWORK

- A. ALL SUPPLY AND EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED OF ROUND GALVANIZED SHEET METAL AND FABRICATED ACCORDING TO THE LATEST EDITION OF SMACNA STANDARDS WITH A MINIMUM PRESSURE CLASSIFICATION OF 2", SEAL CLASS C, WITH A MAXIMUM LEAKAGE RATE OF 5%.
- C. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR CLEAR DIMENSIONS.
- D. PROVIDE A MANUAL BALANCING DAMPER AT ALL SUPPLY AND RETURN BRANCH TAKEOFFS.
- E. FLEXIBLE DUCT, IF SHOWN ON DRAWINGS, SHALL BE INSULATED ROUND DUCT WITH AN OUTER GLASS REINFORCED SILVER MYLAR JACKET ENCLOSING MIN. 1-1/2" THICK GLASS FIBER INSULATION AROUND A CONTINUOUS INNER LINER, AND SHALL CONFORM TO THE REQUIREMENTS OF U.L. 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5 FEET. "R" VALUE TO MEET/EXCEED ENERGY CODE (R=6)
- F. ALL SHEET METAL DUCTWORK WITHIN 10' OF THE AIR HANDLING UNIT SHALL BE LINED WITH DUCT LINER. ALL REMAINING SUPPLY, OUTSIDE AIR AND EXTERIOR DUCTS SHALL BE EITHER INTERNALLY LINED OR EXTERNALLY INSULATED WITH DUCT WRAP. PROVIDE AN ADDITIONAL 1-1/2" OF DUCT WRAP AND AN ALUMINUM JACKET FOR ALL EXTERIOR DUCT.
- G. ALL DUCT INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS AND PARTITIONS.

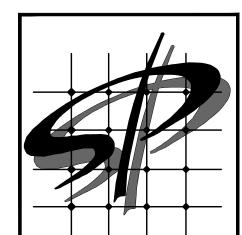
- A. CONDENSATE DRAINS SHALL BE SCHEDULE 40 PVC OR TYPE L COPPER WITH SOLDERED JOINTS.
- 9. INSULATION
 - A. DUCT LINER FIBROUS GLASS DUCT LINER, MINIMUM 1-1/2" THICK WITH R-VALUE TO MEET LOCAL ENERGY CODE, WITH COATED SURFACE EXPOSED TO AIR STREAM. APPLY WITH MECHANICAL FASTENERS AND 100% COVERAGE OF ADHESIVE.
 - B. DUCT WRAP MINERAL FIBER BLANKET, MINIMUM 2" THICK WITH R-VALUE TO MEET LOCAL ENERGY CODE, WITH REINFORCED FOIL AND PAPER VAPOR RETARDANT JACKET. APPLY WITH MECHANICAL FASTENERS AND ADHESIVE.
- C. INTERIOR CONDENSATE DRAINS INSULATE WITH 1/2" THICK FLEXIBLE ELASTOMERIC PIPE INSULATION.
- D. AIR DISTRIBUTION INSULATE TOP-SIDE AS REQUIRED PER CODE
- 10. ALL PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASHED IN A WATERPROOF MANNER.
- 11. EXTEND ALL CONDENSATE DRAINS TO GUTTERS AS SHOWN ON DRAWING. DRAINS FROM AHU'S SHALL BE TRAPPED. SLOPE TO MATCH ROOF SLOPE.
- 12. LOCATE ALL THERMOSTATS AND SWITCHES 8'-0" ABOVE FINISHED FLOOR. FURNISH A THERMOSTAT FOR EVERY DEVICE REQUIRING ONE WHETHER
- 13. ALL EQUIPMENT SHALL BE INSTALLED PER CODE & MANUFACTURER'S REQUIREMENTS FOR SERVICE AND ACCESS CLEARANCES.
- 14. ALL EQUIPMENT SHALL BE U.L LISTED.
- 15. MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE A COMPLETE BALANCING REPORT IN ACCORDANCE WITH
- 16. ALL CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR.
- 17. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY AND RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS OR DECONTAMINATION EQUIPMENT UPON ACTIVATION THE SMOKE DETECTOR SHALL SHUT DOWN THE AIR HANDLING UNIT. * IF THERE IS A FIRE ALARM SYSTEM: DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR. ACTIVATION OF A DUCT SMOKE DETECTORS SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
- * IF THERE IS NOT A FIRE ALARM SYSTEM: DETECTORS SHALL BE FURNISHED AND WIRED AND INSTALLED BY THE MECHANICAL CONTRACTOR ACTIVATION OF A DUCT SMOKE DETECTORS SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
- 18. PROVIDE A CLEAN SET OF FILTERS FOR ALL AIR HANDLING EQUIPMENT AT SUBSTANTIAL COMPLETION.
- 19. MAINTAIN A MINIMUM 10'-0" BETWEEN OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGE AND PLUMBING VENTS, ETC. FIELD COORDINATE.
- 20. ROOF CURBS SHALL HAVE A BASE THAT FITS SLOPE OF ROOF AS REQUIRED. TOP OF CURB SHALL BE LEVEL. SEE STRUCTURAL PLANS FOR SLOPE INFORMATION. THE RESPONSIBILITY OF PROVIDING AND INSTALLING ROOF CURB SHALL BE COORDINATED BETWEEN THE M.C. AND PRE-FABRICATED METAL BUILDING MANUFACTURER.
- 21. RUN DUCT UP WITHIN STRUCTURE OR THROUGH JOIST WEBS WHERE POSSIBLE & WHERE REQUIRED TO MAINTAIN CEILING HEIGHTS. PROVIDE OFFSETS IN DUCT WHERE REQ'D WITH MAX. 45° ELBOWS. MAKE BRANCH TAPS OFF TOP, SIDES OR BOTTOM AS REQ'D. NO BACK TO BACK 90° ELBOWS ALLOWED.
- 22. ALL EQUIPMENT SHALL BE LABELED ACCORDING TO NUMBERING / IDENTIFICATION SYSTEM PER PLANS.

MECHANICAL DRAWING INDEX

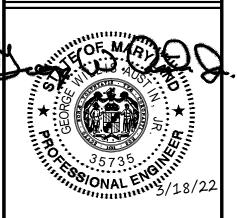
- MO1 MECHANICAL NOTES AND SCHEDULES
- MO2 MECHANICAL PLAN AND NOTES
- MO3 MECHANICAL DETAILS
- EMS1 EMS LOW VOLTAGE PLAN



Waxhaw, NC 28173 (P) 704.618.1959



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#	DATE	REVISION

GENEI ANY CO ONE, N

CHANIC

DATE 3-18-22

TABLE 403.3 O	TABLE 403.3 OA REQUIREMENTS									
ROOM	AREA (SF)	AREA RATE	AREA CFM	PEOPLE CALCULATION BASIS	NO. OF PEOPLE	PEOPLE RATE	PEOPLE CFM	REQUIRED CFM		
SALES	8478	0.12 CFM/SF	1017	15 P / 1000 SF	127	7.5 CFM / P	952	1969		
STORAGE	1315	0.12 CFM/SF	158	_	1	1	-	158		
CORRIDOR / UTILITY	84	0.06 CFM/SF	5	_	1	1	-	5		
OFFICE	73	0.06 CFM/SF	4	5 P / 1000 SF	1	5 CFM / P	5	9		
BREAK ROOM	90	0.06 CFM/SF	5	50 P / 1000 SF	5	5 CFM / P	25	30		

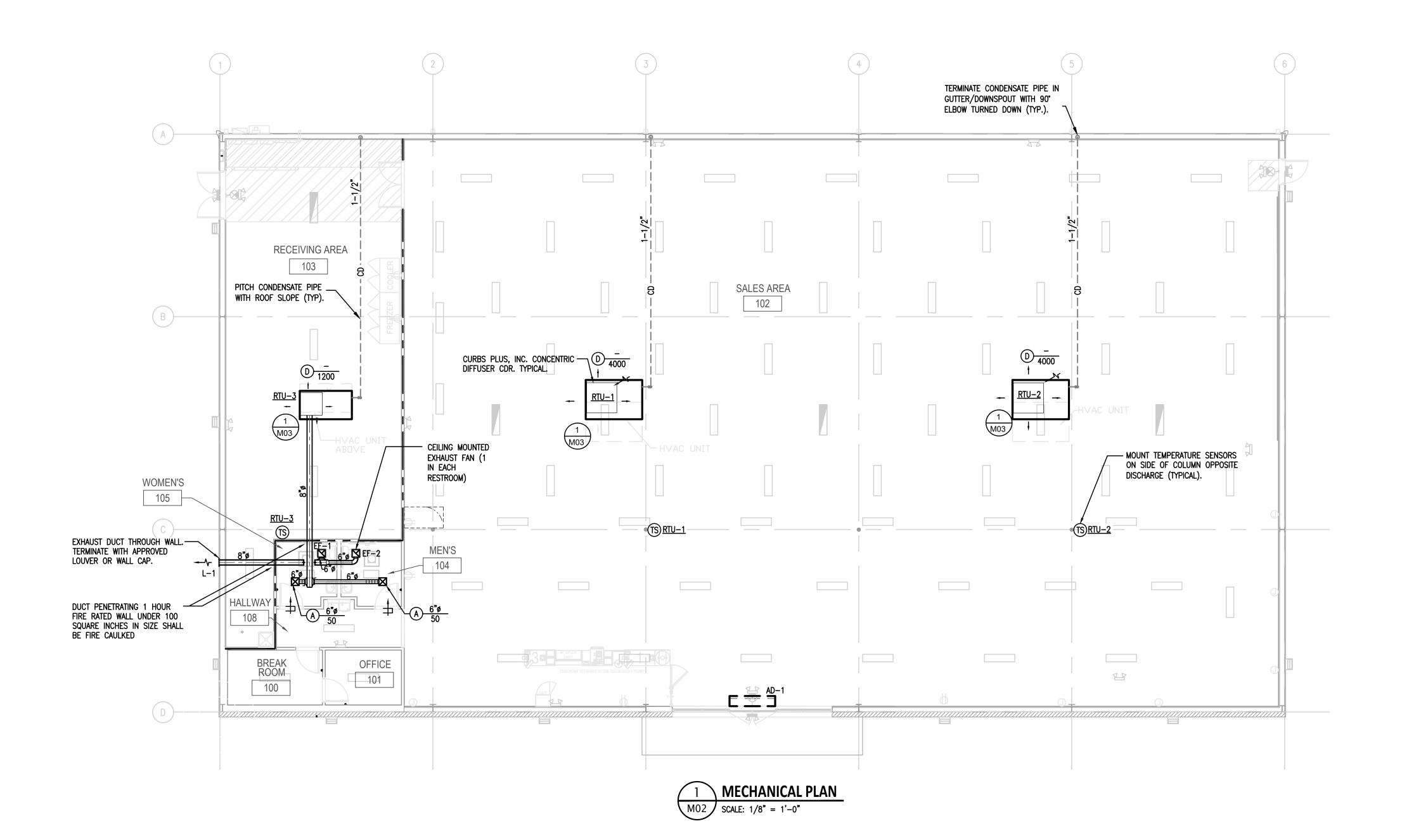
TOTAL OUTSIDE AIR REQUIRED = 2171 CFM

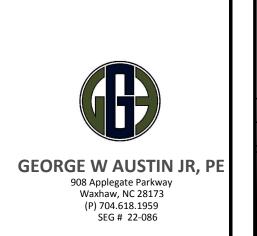
MECHANICAL CONTRACTOR TO ADJUST OUTSIDE AIR QUANTITIES PER THE FOLLOWING SCHEDULE:

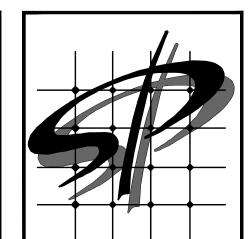
RTU-1 = 985 CFM RTU-2 = 985 CFMRTU-3 = 205 CFM

TOTAL OUTSIDE AIR PROVIDED = 2175 CFM

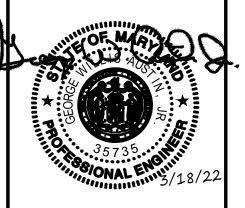
	MECHANICAL LEGEND							
	CEILING SUPPLY AIR DIFFUSER	RTU	ROOF TOP UNIT					
	CEILING RETURN AIR DIFFUSER	CFM	CUBIC FEET PER MINUTE					
	CEILING EXHAUST FAN	AFF	ABOVE FINISHED FLOOR					
(TS)	TEMPERATURE SENSOR MTD.	EER	ENERGY EFFICIENCY RATIO					
l	❷ 8'-0" A.F.F. REFER TO EMS1	SP	STATIC PRESSURE					
	NEW ROUND METAL DUCT	U ►	DOOR UNDER CUT 3/4"					
	NEW ROUND FLEX DUCT	BDD	BACK DRAFT DAMPER					
V.D.	VOLUME DAMPER	(SD)	DUCT SMOKE DETECTOR					
	MANUAL DUCT DAMPER	cd	- CONDENSATE PIPE					







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DOLLAR GENERAL #24134 ALLEGANY COUNTY MD FLINTSTONE, MARYLAND

DOLLAR GENERAL

SHEET TITLE

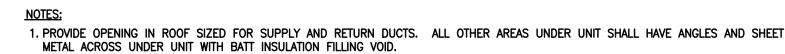
MECHANICAL

PLAN AND NOTES

 SPI Client
 DATE

 22116
 3-18-22

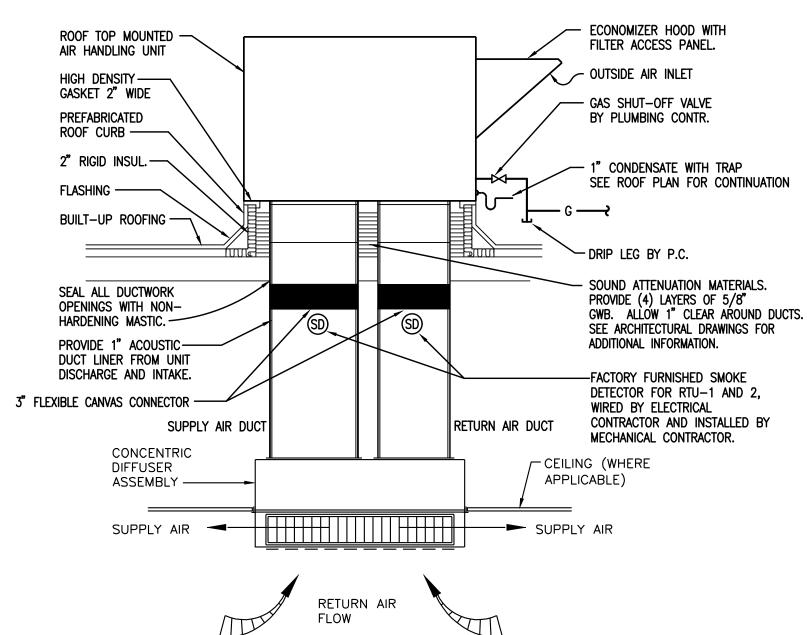
MO2



2. ROOF CURBS SHALL MATCH SLOPE OF ROOF. NO SHIMMING WILL BE ALLOWED.

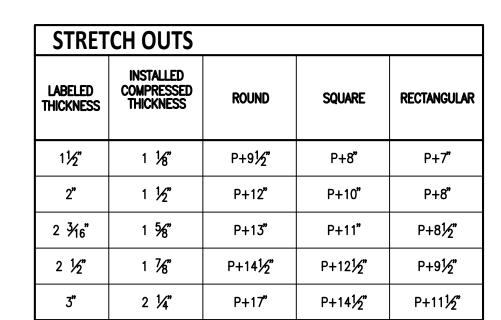
3. MOUNT SMOKE DETECTOR A MAXIMUM 4'-0" ABOVE FINISH CEILING.

4. PROVIDE 8" MINIMUM CLEARANCE FROM BOTTOM OF FLASHING TO HIGHEST POINT OF ADJACENT ROOFING.



NOTE: FULL SIZE DUCT PER CURB OPENING. INSTALL CONCENTRIC DIFFUSER IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ROOFTOP MOUNTED UNIT AND CONCENTRIC DIFFUSER DETAIL



'STRAP (TYPICAL)

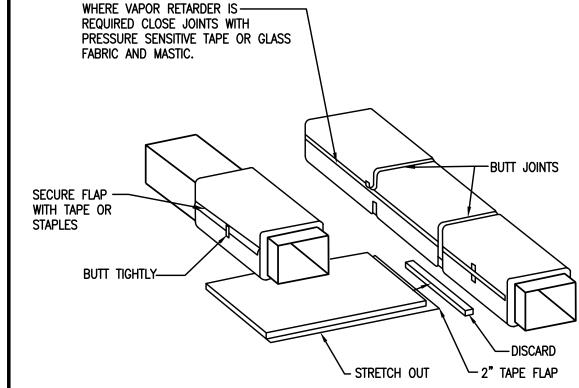
<u>DUCT</u>

DUCTS UP TO

<u>48" WIDTH</u>

∽SCREW (TYPICAL)

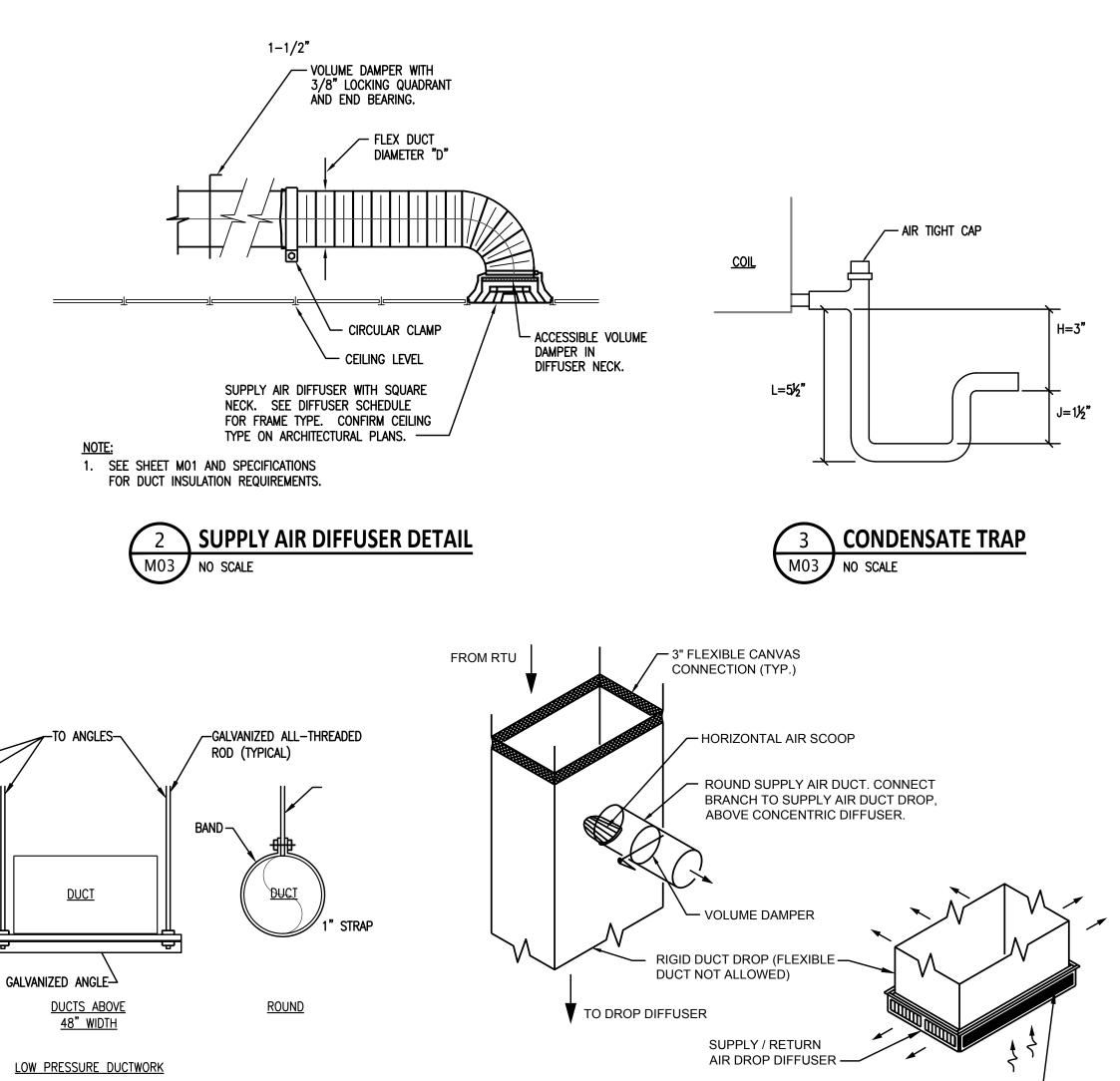
5 DUCT SUPPORT STRAP HANGERS

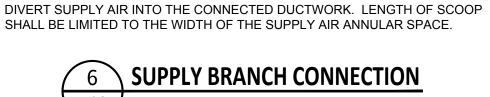


1. INSULATION SHALL BE FIRMLY BUTTED AT ALL JOINTS WITH A MAXIMUM ALLOWABLE COMPRESSION OF 25%.

- 2. ALL SEAMS SHALL OVERLAP A MINIMUM OF 2" AND BE STAPLED APPROXIMATELY 6" ON CENTER WITH OUTWARD CLINCHING STAPLES. THESE SEAMS SHOULD BE FINISHED WITH COMPAC #120 PRESSURE SENSITIVE FOIL TAPE OR GLASS FABRIC AND VAPOR RETARDANT MASTIC.
- 3. PRESSURE SENSITIVE TAPES AND GLASS CLOTH SHALL BE A MINIMUM 3" WIDE.
- 4. DO NOT USE A BONDING ADHESIVE TO ATTACH THE DUCT WRAP TO THE DUCT.
- 5. FOR RECTANGULAR DUCTS OVER 24" WIDE, DUCT WRAP SHALL BE ADDITIONALLY SECURED TO THE BOTTOM OF THE DUCTWORK WITH MECHANICAL FASTENERS ON 18" CENTERS TO REDUCE SAGGING. WASHERS SHALL BE APPLIED WITHOUT COMPRESSING THE INSULATION.
- 6. ON DUCTS CONVEYING COOL AIR, ALL SEAMS, JOINTS, PENETRATIONS, AND DAMAGE TO THE FACING SHALL BE SEALED WITH VAPOR RETARDANT MASTIC OR PRESSURE SENSITIVE TAPES THAT HAVE MATERIAL SIMILAR TO THE FACING
- 7. DO NOT PIN THE SIDES OR TOP OF THE DUCTWORK REGARDLESS OF THE SIZE OF THE DUCT. DO NOT USE WIRE TO SECURE THE WRAP TO THE DUCTWORK.

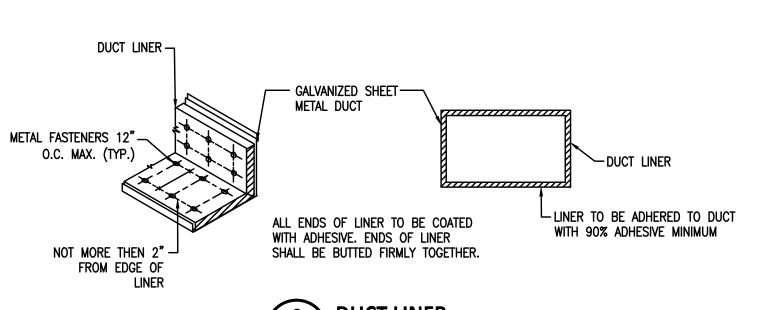


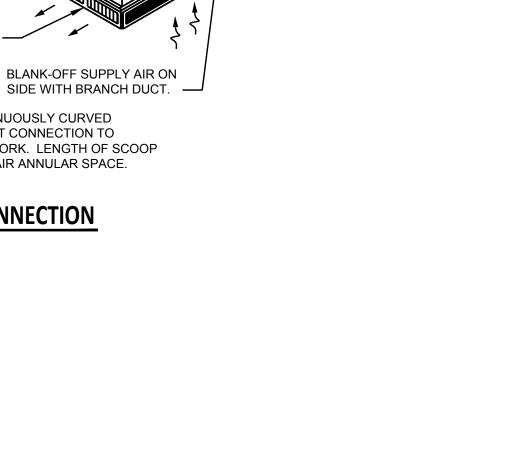


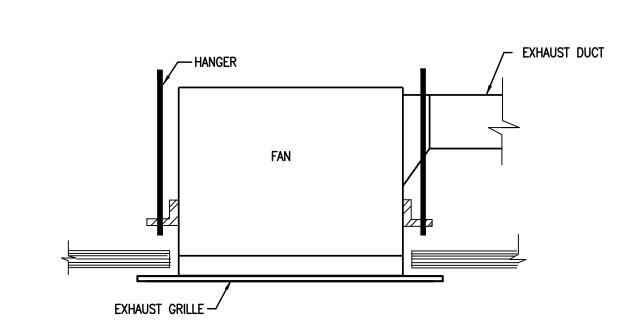


NOTE:
INSTALL HORIZONTAL AIR SCOOP HAVING A CONTINUOUSLY CURVED
AND DAMPER AT DUCT CONNECTION TO CROSS SECTION AND BALANCING DAMPER AT DUCT CONNECTION TO

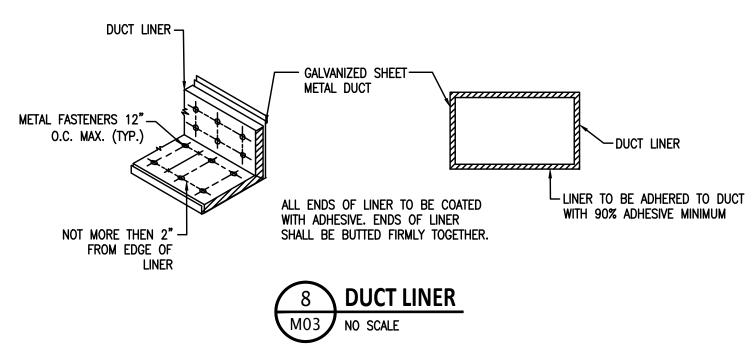
BLANK-OFF SUPPLY AIR ON

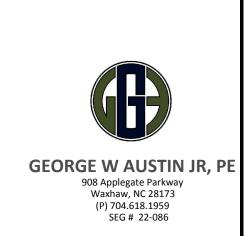
















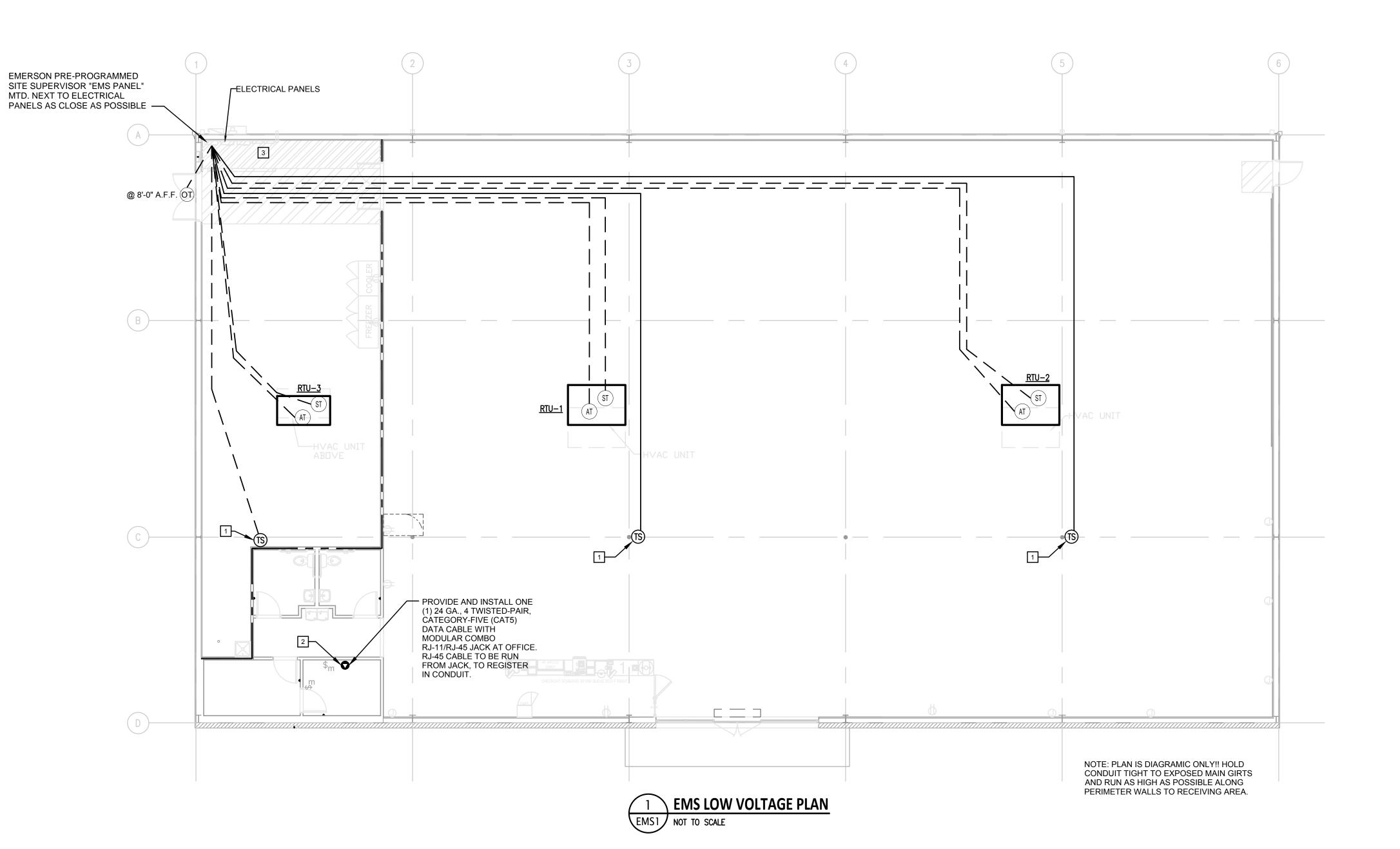
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_	Expiration Date 7/16/2022							
#	DATE	REVISION						

5

SPI Client DATE 3-18-22 SHEET NUMBER

MECHANIC



GENERAL NOTES

- A. REFER TO E01 FOR GENERAL CONTRACTOR RESPONSIBILITIES. E.C. MAY USE CABLE TRAY FOR LOW VOLTAGE CABLES, SEE 2/E02.
- 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

- ALWAYS INSTALL THERMOSTATS 8'-0" A.F.F. THE EXACT MOUNTING LOCATION OF THE THERMOSTAT "TS" MAY VARY DEPENDING ON THE STORE LAYOUT AND DUCT CONFIGURATION. REFER TO SITE SPECIFIC MECHANICAL DRAWINGS FOR HVAC ZONED THERMOSTAT MOUNTING LOCATIONS. IF THERMOSTATS ARE MOUNTED ON EXTERIOR WALLS DUE TO DUCT CONFIGURATION, THEY ARE THEN TO BE INSULATED TO PREVENT AIR INFILTRATION. IF ADDITIONAL HVAC UNITS ARE USED, ADD ADDITIONAL THERMOSTATS "TS".
- 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 SUPERVISOR. 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.

SUPPLIED | INSTALLED

SUPPLIER CONTRACTOR

SUPPLIER CONTRACTOR

GENERAL GENERAL

CONTRACTOR CONTRACTOR

BY:

GENERAL

CONTRACTOR

GENERAL

BY:

SUPPLIER

SUPPLIER

NOTES

QTY. ONE (1) PER HVAC UNIT.

QTY. ONE (1) PER RECEIVING ENTRY.

QTY. ONE (1) PER HVAC UNIT ZONE.

QTY. ONE (1) AT OFFICE COMPUTER CART.

CONTRACTOR QTY. ONE (1) PER HVAC UNIT.

GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR QTY. ONE (1) PER RESTROOM. QTY. ONE (1) PER BREAK ROOM. QTY. ONE (1) PER OFFICE.

DESCRIPTION

AHU TERMINAL STRIP

OUTDOOR AIR TEMP

MTD. @ 8'-0" A.F.F.

SUPPLY TEMP (501-1121)

MTD. IN SUPPLY DUCT

TEMPERATURE SPACE

SENSOR

(809-6590) MTD. @ 8'-0" A.F.F.

RJ-11/RJ-45 DATA JACK,

PHONE COMBO.

m | MOTION SENSOR SWITCH. | LEVITON EZ-FIND ODS-10-IDW

CABLE TYPE

8C T-STAT CABLE
BELDEN 8761 OR EQUIVALENT

(22AWG, 2C, STRANDED,

SHIELDED)
BELDEN 8761 OR EQUIVALENT
(22AWG, 2C, STRANDED,

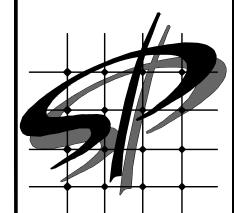
SHIELDED)

BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED,

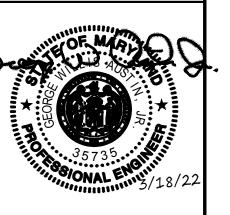
SHIELDED)

24 GA., 4 TWISTED-PAIR,

CATEGORY-FIVE (CAT 5) DATA CABLE .



STORE PLANNING Inc 3080 SENNA DRIVE Matthews, North Carolina 28105 Phone: 704-841-7288 Fax: 704-849-6997



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#	DATE	REVISION
	ı	

OLLAR GENERAL #24134 ALLEGANY COUNTY MD FLINTSTONE, MARYLAND

LLAR GENERAL

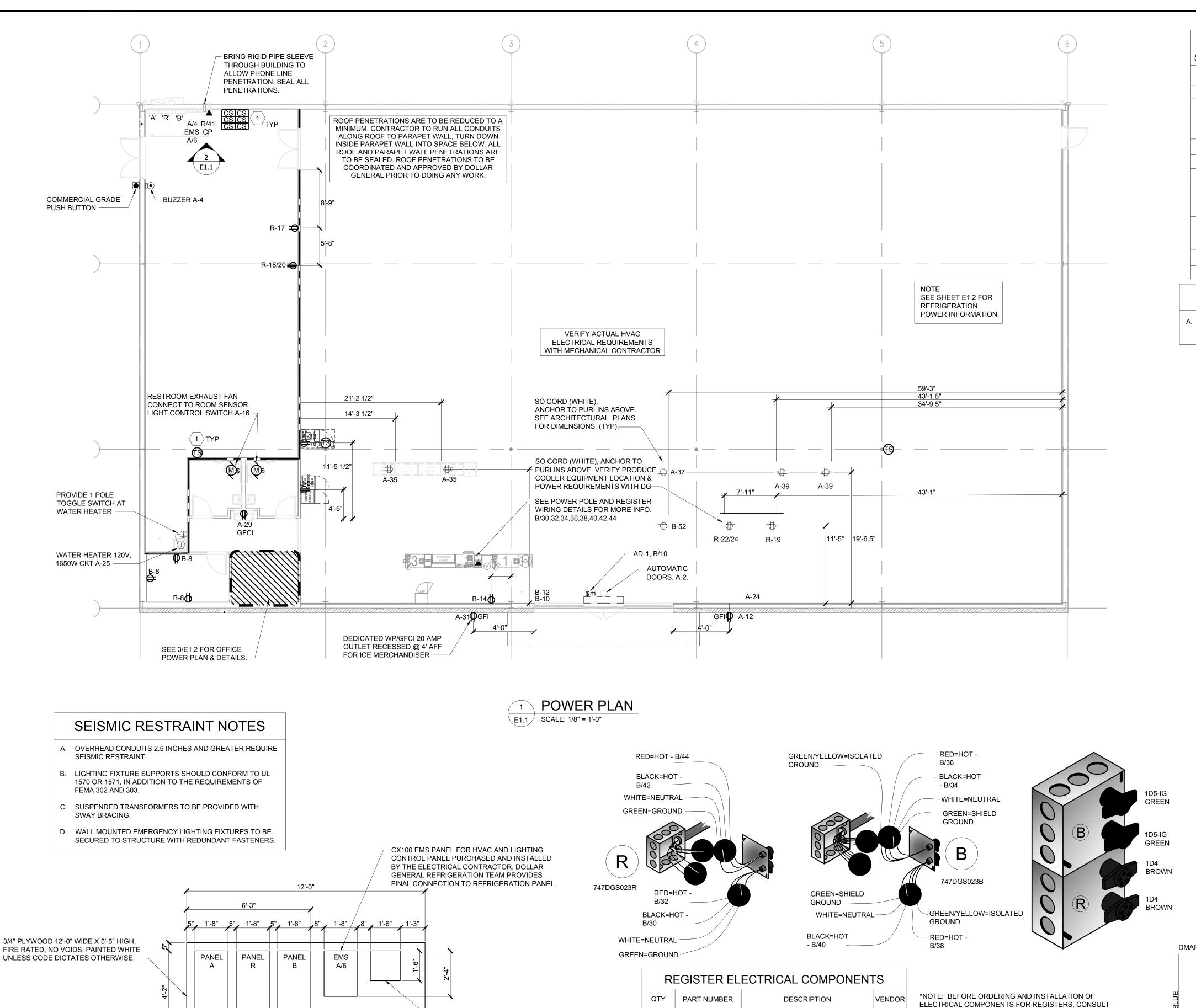
DOLLAR

SPI Client DATE 22116 3-18-22

SHEET NUMBER

GEORGE W AUSTIN JR, PE

908 Applegate Parkway
Waxhaw, NC 28173
(P) 704.618.1959
SEG # 22-086



REFRIGERATION CONTRACTOR PANEL. PROVIDE POWER

ELECTRICAL CONTRACTOR TO RUN AN EMPTY 1"C. (WITH

PROVIDED BY DOLLAR GENERAL REFRIGERATION TEAM.

PULL STRING) FROM THIS PANEL TO THE EMS PANEL.

REFRIGERATION CONTRACTOR TO PULL DATA LINE.

& DATA CONNECTIONS. POWER FROM CKT: R/41.

- TELEPHONE CONDUIT STUB THROUGH

DMARC

² ELECTRICAL PANEL ELEVATION

FLOOR LINE

DUPLEX RECEPTACLE DEDICATED CIRCUIT A/4

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

☐n 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

NL NIGHT LIGHT CIRCUIT

A. MOUNT ALL REFRIGERATOR OUTLETS AT 12" AFF.

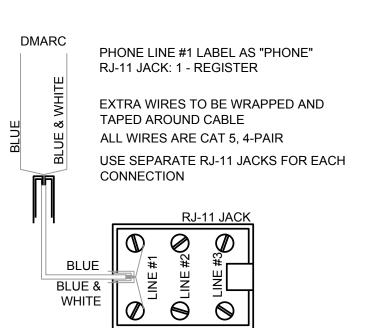
GENERAL NOTES

ELECTRICAL SPECIFICATIONS

- A. ALL WIRING SHALL SHALL BE CONTAINED IN CONDUIT OF PROPER SIZE.
- B. ALL WIRING SHALL CONFORM TO LOCAL, STATE AND FEDERAL CODES.
- C. 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 4/E1.1 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.
- G. 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 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.
- K. SEE EMS SHEETS EMS1 AND EMS2 FOR ENERGY MANAGEMENT SYMBOLS AND INFORMATION.
- ELECTRICIAN TO PROVIDE 1 1/2" CONDUIT WITH PULL STRINGS FOR SATELLITE LOCATION.
- M. ALL POWER AND DATA TO BE ROUTED OVERHEAD. UNDER SLAB NOT ALLOWED.

ELECTRICAL KEYED NOTE

MECHANICAL THERMOSTAT MOUNTED ON COLUMN AT 8'-0" AFF. SURFACE MOUNT BOX AND CONDUIT. STUB CONDUIT AT STRUCTURE.



FINAL FIXTURE PLAN FOR NUMBER AND LOCATION.

MAXIMUM CIRCUITS FOR REGISTERS:

CIRCUITS AT MAIN REGISTER - (9) 110V

• CIRCUITS AT ISLAND REGISTER - (3) 110V

DUAL CIRCUIT POWER KIT WITH

12' 2CH REGULAR POLE W/2-C & 1-D

ISOLATED GROUND

DUAL CIRCUIT POWER KIT

REGISTER ELECTRICAL DIAGRAM

CONNECTOR DRW #2004-12

10' CABLE KIT (SET OF 4 WHIPS)

747DGS023B

747DGS023R

747DGS032A

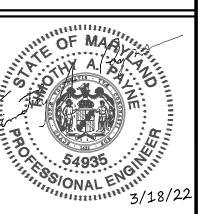
747DGS044-12BK

PHONE WIRING SCHEMATIC

1005 Thorndale Rd Indian Trail, NC 28079 (P) 704.651.3425



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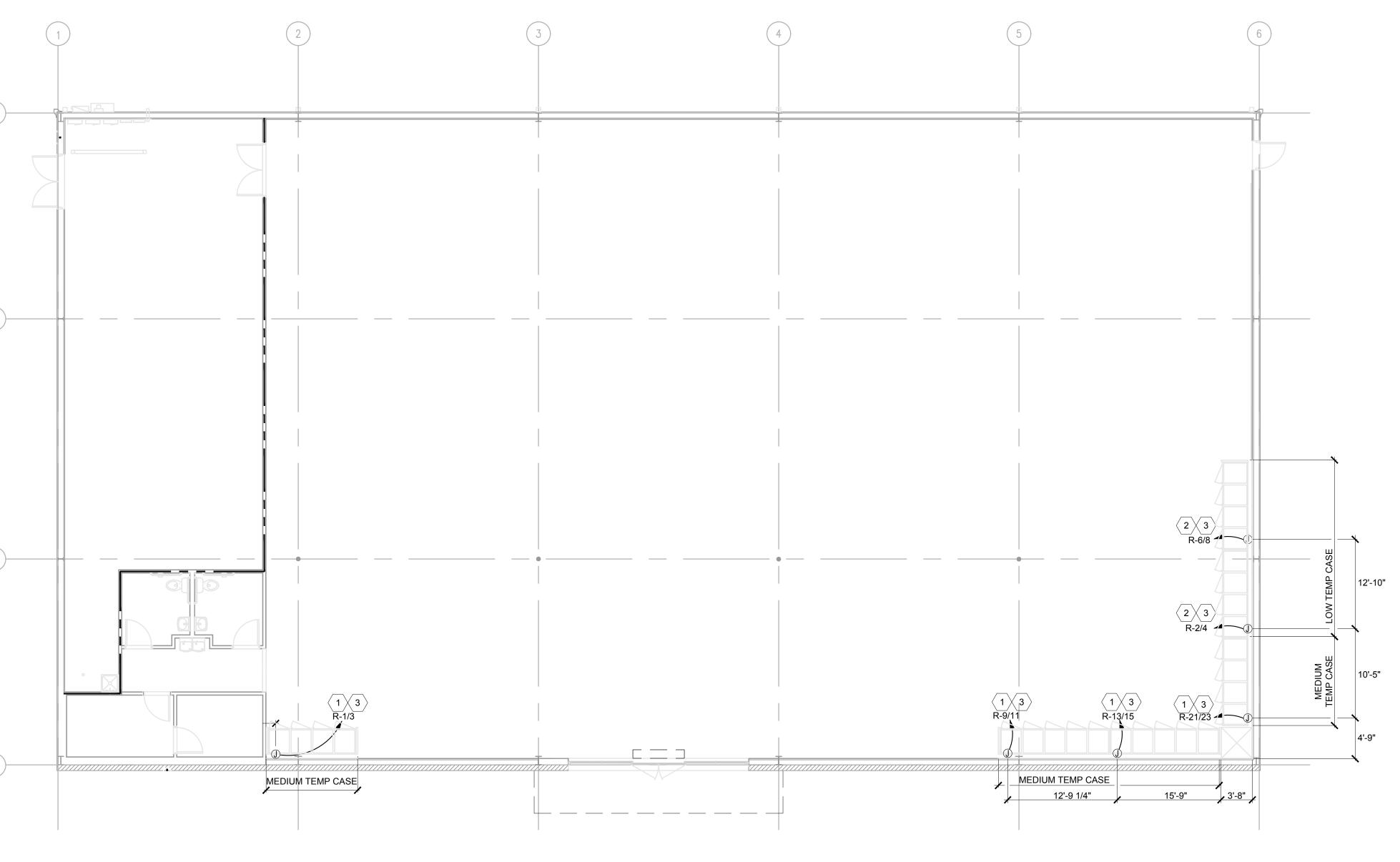
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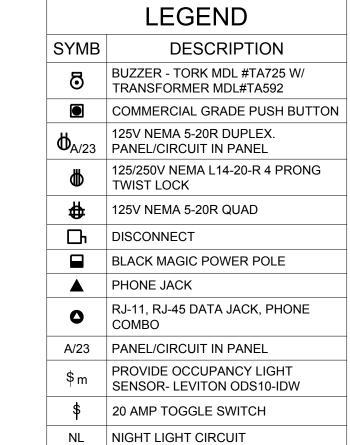
Ŀ	DATE	REVISION

5

DATE SPI Client 3-18-22 22116 SHEET NUMBER

TIMOTHY A. PAYNE, PE





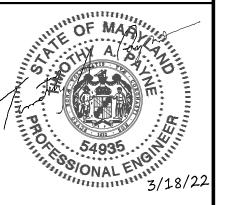
GENERAL NOTES

A. MOUNT ALL REFRIGERATOR OUTLETS AT 12" AFF.

ELECTRICAL KEYED NOTES

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

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#	DATE	REVISION

DOLLAR GENERAL #
ALLEGANY COUNTY
FLINTSTONE, MARY

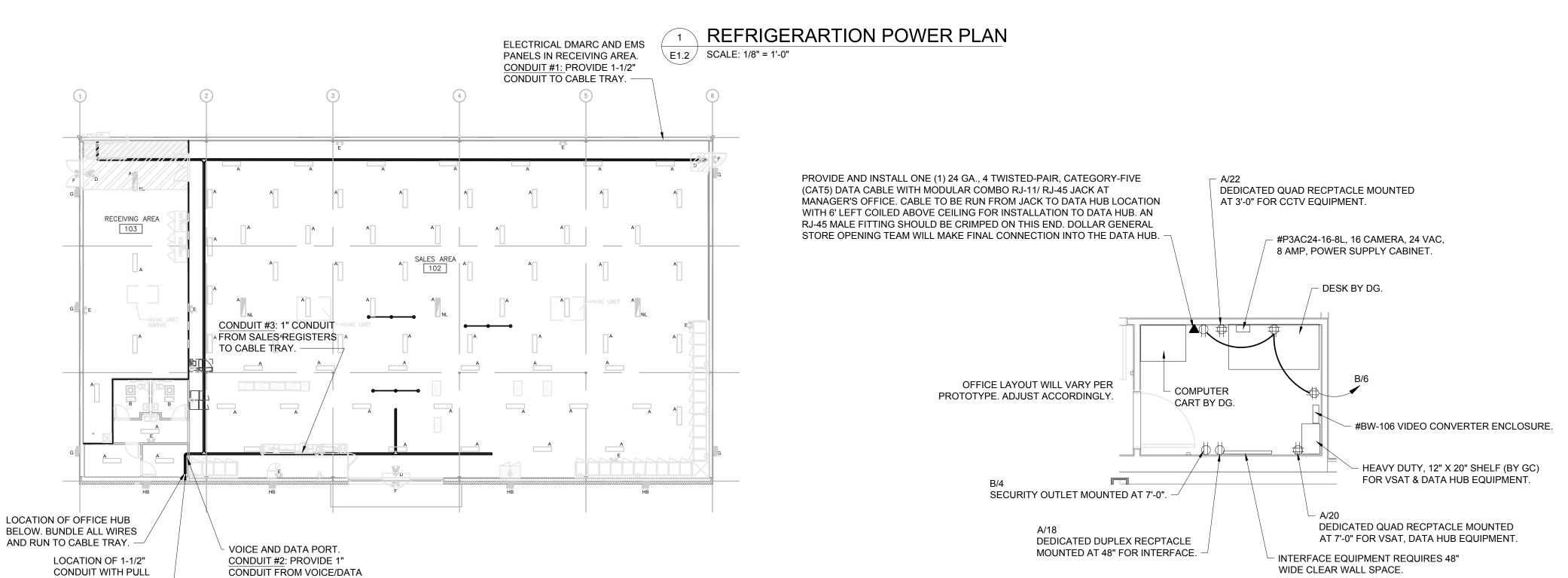
GENER/

REFRIGERATION F

SPI Client DATE 3-18-22 22116

SHEET NUMBER

TIMOTHY A. PAYNE, PE 1005 Thorndale Rd Indian Trail, NC 28079 (P) 704.651.3425 SEG # 22-086



3 LARGE SCALE OFFICE PLAN

E1.2 NTS

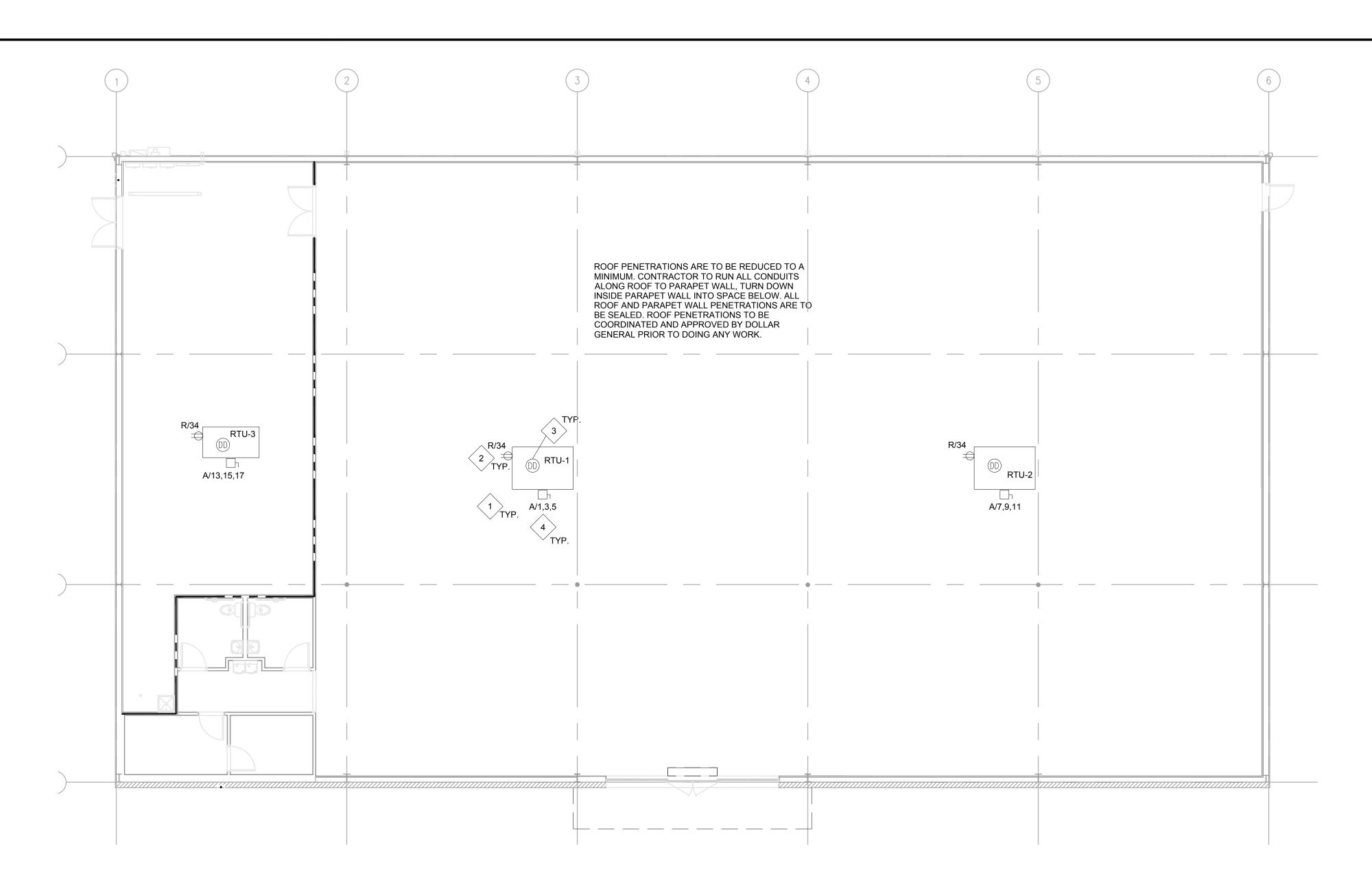
STRING FOR SATELLITE

(ABOVE OFFICE). ——

PORT TO CABLE TRAY.

E1.2 SCALE: 1/16" = 1'-0"

CABLE TRAY PLAN AND CONDUIT DIAGRAM



1 ROOF POWER PLAN

E1.3 SCALE: 1/8" = 1'-0"

				HVA	C UNIT	WIRIN	G TAE	BLE				
UNIT	WIRE	COND	DISC	FUSE	ENCL	PH	VOLT	GND	BRKR	LOAD	CFM	TONS
RTU-1	#4	1 1/4"	100A/3P	60A	NEMA 3R	3ф	208	#8	80A/3P	24,138	5,000	
RTU-2	#4	1 1/4"	100A/3P	60A	NEMA 3R	3ф	208	#8	80A/3P	24,138	5,000	
RTU-3	#10	3/4"	30A/3P	30A	NEMA 3R	3ф	208	#10	30A/3P	1,200	1,200	
EF-1	#12	3/4"	MOTOR RAT	ED SWITCH	NEMA 1	1φ	120	#12	20A/1P	6	75	
EF-2	#12	3/4"	MOTOR RAT	ED SWITCH	NEMA 1	1φ	120	#12	20A/1P	6	75	
AD-1	#12	3/4"	DOOR S	SWITCH	NEMA 1	1ф	120	#12	20A/1P	1224	2758	

TABLE NOTES:

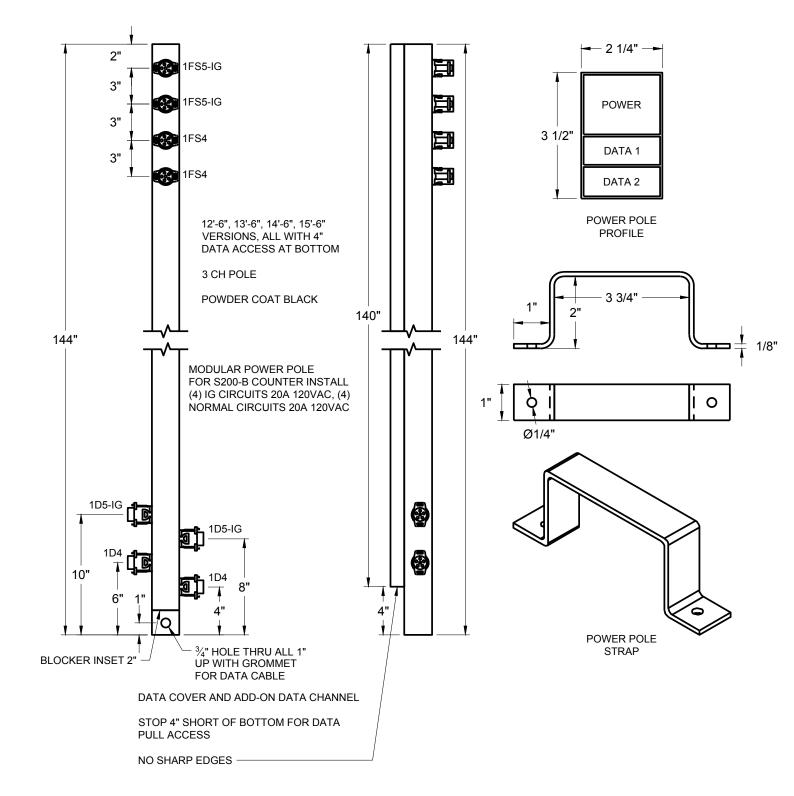
1. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.

- 2. PROVIDE NEUTRALS ON AS REQUIRED BASIS, FIELD VERIFY.
- 3. ALL DISCONNECTS TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE, SUBMIT SHOP DRAWINGS. BUSSMAN FRN-R-(AMP) IS SPECIFIED.

	LEGEND
SYMB	DESCRIPTION
8	BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592
	COMMERCIAL GRADE PUSH BUTTON
d _{A/23}	125V NEMA 5-20R DUPLEX. PANEL/CIRCUIT IN PANEL
Ф	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
#	125V NEMA 5-20R QUAD
□	DISCONNECT
	BLACK MAGIC POWER POLE
A	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

ELECTRICAL KEYED NOTES

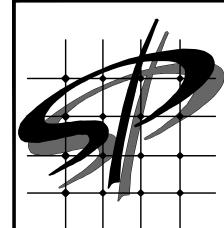
- 1. LOCATIONS SHOWN FOR MECHANICAL UNITS ARE ONLY APPROXIMATE, CONTRACTOR MUST CONSULT MECHANICAL OR STRUCTURAL DRAWINGS TO DETERMINE ACTUAL UNIT LOCATIONS. PROVIDE 1/2"C. PENETRATION THRU ROOF WITHIN FOOTPRINT OF UNIT FOR USE WITH CONTROL WIRING TO UNIT BY OTHERS. PROVIDE PROPER WATERSEAL. (TYPICAL)
- 2. 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.
- 3. 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 VOLATGE. PLACE ANY REQUIRED LABELING ON CEILING TILE DIRECTLY BELOW UNIT. RUN CONDUIT & WIRE UNDERGROUND FROM UNIT TO INSIDE OF SPACE.
- 4. MOUNT DISCONNECT SWITCH AT UNIT AS REQUIRED.
- FLY FAN: 120V-1PH-10.2A. PROVIDE SWITCH TO START UNIT WHEN DOOR OPENS AND SHUT OFF UNIT WHEN DOOR CLOSES. VERIFY EXACT LOCATION AND EQUIPMENT REQUIREMENTS PRIOR TO INSTALLATION.



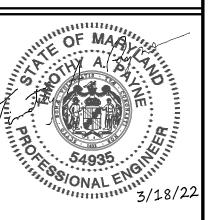
REGISTER POWER POLE

NTS





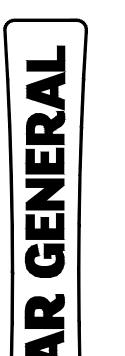
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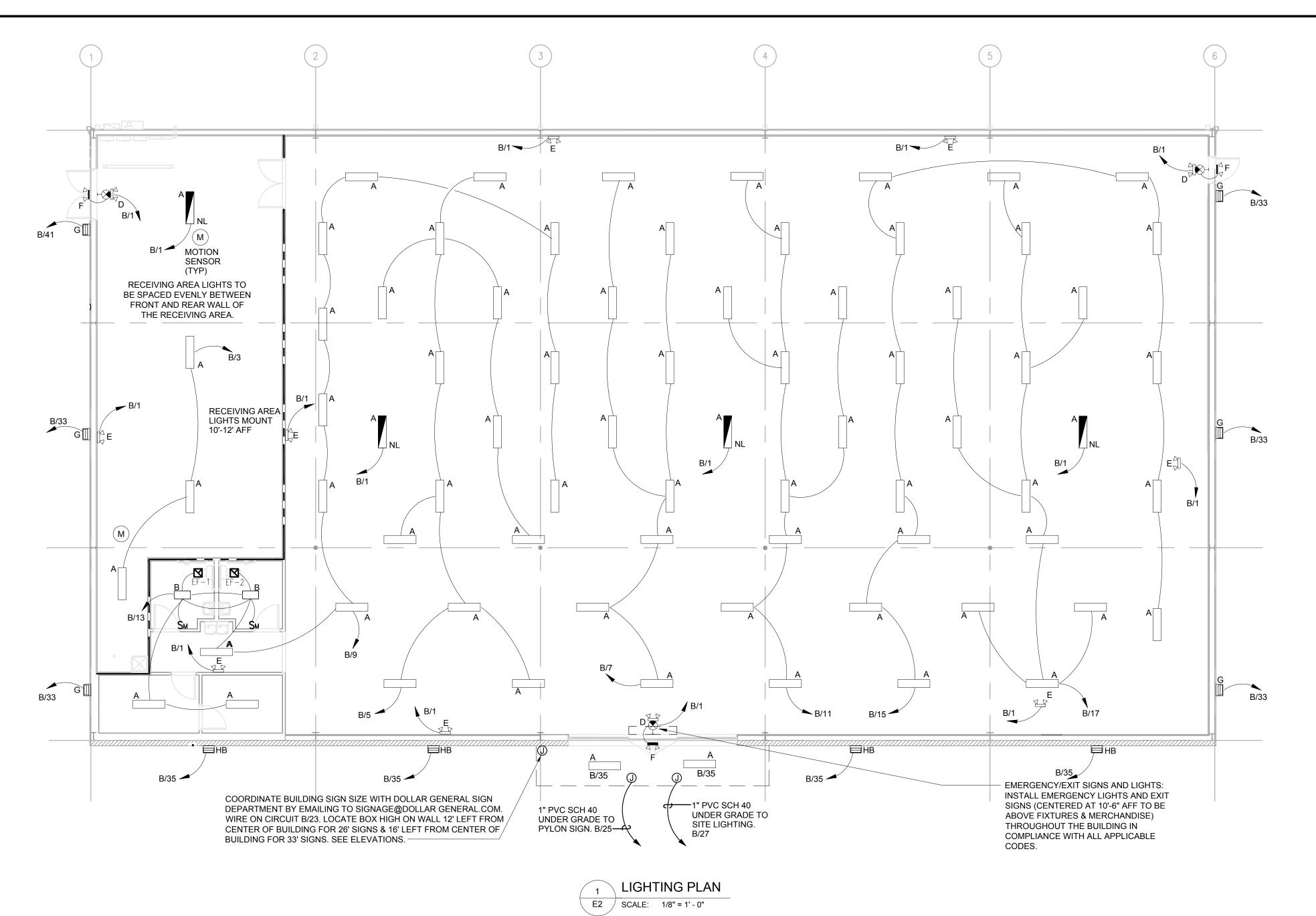


HEET TITLE
ROOF POWERPLAN

J SHATE

SPI Client DATE
22116 3-18-22
SHEET NUMBER

E1.3



	LE	EDS LIGHT	FIXTURE SCH	EDULE	
SYMBOL	TYPE	MANF.	PART#	DESCRIPTION	W
	A	LEDS	ST5000	4' LED STRIP FIXTURE AERIAL MOUNT INCLUDES (2) 8 FT CABLES	33
	A/NL	ETI	54583361	4' LED STRIP FIXTURE WITH BATTERY BACK-UP	33
	В	LEDS	ST2000	2' LED STRIP FIXTURE SURFACE MOUNT	20
	D	LEDS	EM2505	LED EXIT SIGN / EMERGENCY LIGHT COMBO WITH 2 HEADS	3
	E	LEDS	EL2500	LED INTERIOR EMERGENCY LIGHT WITH 2 HEADS	2
	F2	LEDS	EL2502	LED EXTERIOR EMERGENCY LIGHT WITH 2 HEADS	2
	G	LEDS	LEDBG42W001B	LED WALL PACK 1	42
	НВ	LEDS	LEDS-AL120	LED WALL PACK 2	150
-	HP-S	LEDS	LEDS-1210-S	PARKING POLE LIGHT	150
	NOTE:	REFER TO SHEET "	T01' FOR NATIONAL ACCOUN	T VENDORS LIST	

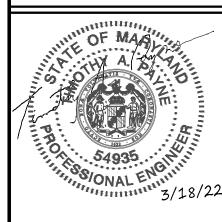
LIGHT SPACING NOTE RECEIVING AREA LIGHTS TO BE SPACED EVENLY BETWEEN FRONT AND REAR WALL OF THE RECEIVING AREA.

* CIRCUITS B/31 AND B/33 TO BE USED FOR SIDE WALLPACKS. USUALLY ONLY ONE SIDE IS REQUIRED TO BE ILLUMINATED. USE SPARE CIRCUITS WHEN NEEDED. ROUTE THRU CONTACTOR C7 ON EMS PANEL









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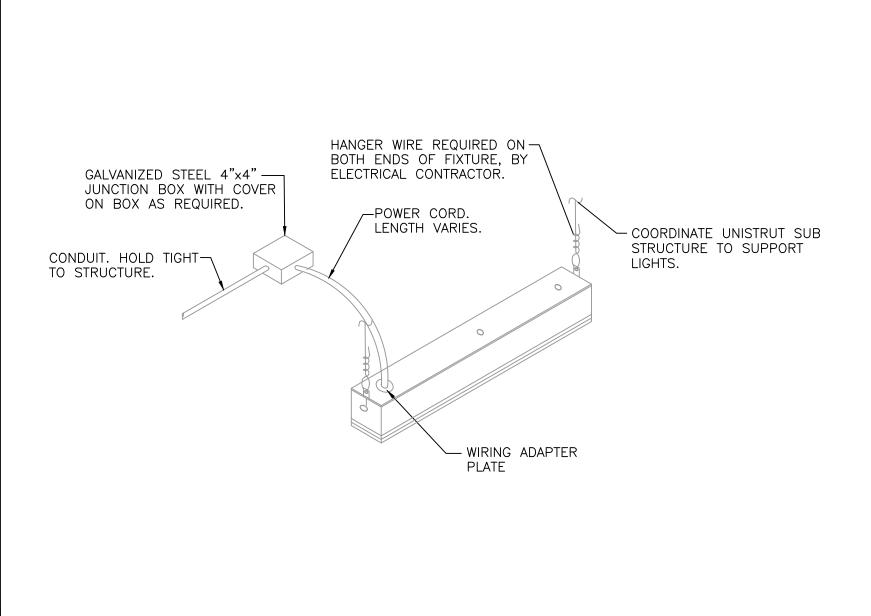
#	DATE	REVISION



LIGHTING

DATE SPI Client 3-18-22

SHEET NUMBER



LIGHT MOUNTING DIAGRAM E2 SCALE: DIAGRAMMATIC

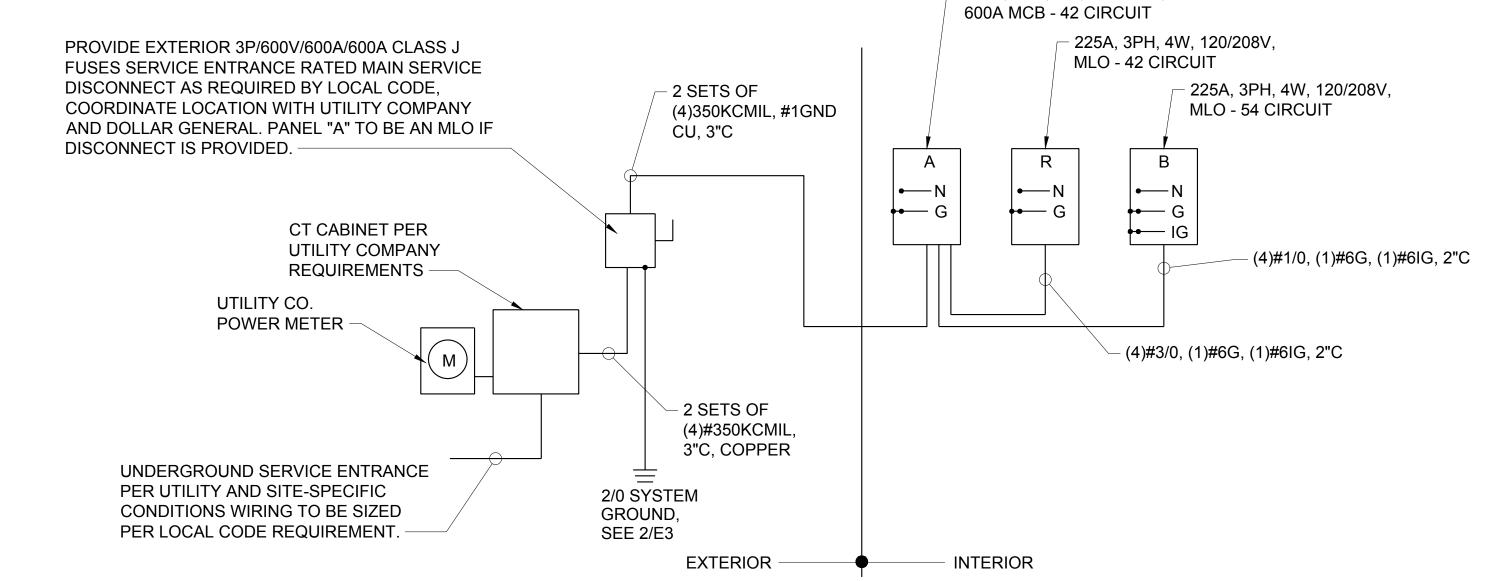
					TOTAL	PER PH WATTS	ASE IN	NOTE	: SEE PO\	WER RISER FOR ADDITIONAL REQUIREMENTS		
CKT#	LOAD	DESCRIPTION	AMP	POLE	Α	В	С	AMP	POLE	DESCRIPTION	LOAD	CKT#
1	6360				6460			20	1	AUTOMATIC DOOR	100	2
3	6360	RTU-1	60	3		6720		20	1	TELEPHONE BOARD/BUZZER	360	4
5	6360						6540	20	1	ENERGY MANAGEMENT	180	6
7	6360				6360			20	1	SPARE		8
9	6360	RTU-2	60	3		6360		20	1	SPARE		10
11	6360						6540	20	1	OUTDOOR CONVRECEPT.	180	12
13	2640				2740			20	1	EXHAUST FAN	100	14
15	2640	RTU-3	30	3		2740		20	1	EXHAUST FAN	100	16
17	2640						3140	20	1	INTERFACE EQUIP.	500	18
19		SPARE	20	1	500			20	1	VSAT, DATA HUB EQUIP.	500	20
21		SPARE	20	1		960		20	1	CCTV EQUIP.	960	22
23		SPARE	20	1			924	20	1	CLICK & COLLECT FREEZER/COOLER	924	24
25	1650	WATER HEATER	20	1	1650			20	1	SPARE		26
27		SPARE	20	1		0		20	1	SPARE		28
29	500	DRINKING FOUNTAINS	20	1			500	20	1	SPARE		30
31	1200	OUTDOOR ICE MERCHANDISER	20	1	12970						11770	32
33	1200	HIGI KIOSK	20	1		12504		200	3	PANEL "R"	11304	34
35	960	SODA COOLERS	20	1			10674	1			9714	36
37	1600	DRINK COOLERS	20	1	7902						6302	38
39	1600	SODA COOLERS	20	1		7095		150	3	PANEL "B"	5495	40
41		SPARE	20	1			9573	1			9573	42
	•	NEW	TO	TAL	38582	36379	37891		•	TOTAL CONNECTED :	= 112852.0	WATTS

					TOTAL	PER PHA WATTS	ASE IN					
CKT#	LOAD	DESCRIPTION	AMP	POLE	Α	В	С	AMP	POLE	DESCRIPTION	LOAD	CKT#
1	1300	A-1-A REACH-IN DAIRY CASE	15	2	5200			40		A-2-A REACH-IN FROZEN CASE	3900	2
3	1300	A-1-A REACH-IN DAIRY CASE	15	2		5200		40	0 2	A-2-A REACH-IN FROZEN CASE	3900	4
5		SPARE	20	1			3200	40	2	A-2-B REACH-IN FROZEN CASE	3200	6
7		SPARE	20	1	3200			40		A-2-B REACH-IN FROZEN CASE	3200	8
9	1300	A-1-C REACH-IN DAIRY CASE	15	2		1300		20	1	SPARE		10
11	1300	A-1-C REACH-IN DAIRY CASE	15	2			1300	20	1	SPARE		12
13	1300	A-1-D REACH-IN DAIRY CASE	A-1-D REACH-IN DAIRY CASE 15	2	1300			20	1	SPARE		14
15	1300	A-1-D REACH-IN DAIRT CASE	15	2		1300		20	1	SPARE		16
17	1150	STOCKROOM COOLER	20	1			2070	20	2	STOCKROOM FREEZER	920	18
19	1150	PRODUCE COOLER	15	1	2070			20		STOCKROOW FREEZER	920	20
21	1300	A-1-E REACH-IN DAIRY CASE	15	2		2964		20	2	PRODUCE COOLER	1664	22
23	1300	A-1-E REACH-IN DAIRT CASE	13				2964	20		FRODUCE GOOLER	1664	24
25		SPARE	20	1	0			20	1	SPARE		26
27		SPARE	20	1		0		20	1	SPARE		28
29		SPARE	20	1			0	20	1	SPARE		30
31		SPARE	20	1	0			20	1	SPARE		32
33		SPARE	20	1		540		20	1	SERVICE RECEPS ON ROOF	540	34
35		SPARE	20	1			0	20	1	SPARE		36
37		SPARE	20	1	0			20	1	SPARE		38
39		SPARE	20	1		0		20	1	SPARE		40
41	180	PANEL RECEPTACLE	20	1			180	20	1	SPARE		42
		NEW(X), EXISTING()	TO	TAL	11770	11304	9714			TOTAL CONNECTED =	32788	WATTS
		* HANDLE LOCK-ON DEVICE	LOCA	TED AT:			-	-			91.1	AMPS

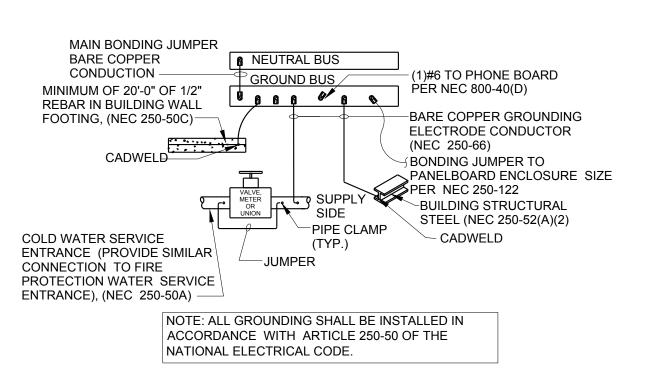
- 600A, 3PH, 4W, 120/208V,

					TOTAL	PER PH WATTS	ASE IN					
CKT#	LOAD	DESCRIPTION	AMP	POLE	Α	В	С	AMP	POLE	DESCRIPTION	LOAD	CKT#
1	230	EMERGENCY/EXIT LIGHTS & NIGHT LIGHTS	*20	1	230			20	1	SPARE		2
3	105	RECEIVING LIGHTS	20	1		605		20	1	SECURITY RECEP.	500	4
5	396	70% SALES LIGHTS - ROWS 2 & 3	20	1			936	20	1	OFFICE RECEPS.	540	6
7	297	70% SALES LIGHTS - ROWS 5 & 6	20	1	837			20	1	BREAK RM. RECEPS.	540	8
9	330	30% SALES LIGHTS - ROWS 1 & 4	20	1		1554		20	1	FLYFAN	1224	10
11	330	70% SALES LIGHTS - ROWS 8 & 9	20	1			1110	20	1	RECEPT KEY ME	780	12
13	135	R.R. LIGHTS	20	1	735			20	1	RECEPT ATM	600	14
15	396	30% SALES LIGHTS - ROWS 7 & 10	20	1		396		20	1	SPARE		16
17	363	70% SALES LIGHTS - ROWS 12 & 15	20	1			363	20	1	SPARE		18
19		SPARE	20	1	0			25	1	SPARE		20
21		SPARE	20	1		0		25	1	SPARE		22
23	900	BUILDING SIGN	20	1			900	25	1	SPARE		24
25	900	PYLON SIGN	20	1	900			20	1	SPARE		26
27	150	SITE LIGHTING	20	1		150		20	1	SPARE		28
29		SPARE	20	1			1200	20	1	POWER TERMINAL BROWN	1200	30
31		SPARE	20	1	1200			20	1	POWER TERMINAL BROWN	1200	32
33	210	EXT. WALL LTS	20	1		1410		20	1	POWER TERMINAL GREEN	1200	34
35	670	FRONT EXT. WALL/CANOPY LTS	20	1			1870	20	1	POWER TERMINAL GREEN	1200	36
37		SPARE	20	1	1200			20	1	POWER TERMINAL GREEN	1200	38
39		SPARE	20	1		1200		20	1	POWER TERMINAL GREEN	1200	40
41	50	EXTERIOR DUSK/DAWN	20	1			1250	20	1	POWER TERMINAL BROWN	1200	42
43		SPARE	20	1	1200			20	1	POWER TERMINAL BROWN	1200	44
45		SPARE	20	1		0		20	1	SPARE		46
47	İ	SPARE	20	1			0	20	1	SPARE		48
49	İ	SPARE	20	1	0			20	1	SPARE		50
51		SPARE	20	1		180		20	1	DISPLAYLIGHT	180	52
53		SPARE	20	1			864	20	1	GATORADE	864	54
		NEW(), EXISTING()	ТО	TAL	6302	5495	8493			TOTAL CONNECTED =	20290	WATTS
		* HANDLE LOCK-ON DEVICE	LOCA	TED AT:			•	ı			56.4	AMPS

DEMAND LOAI	D \$	SUMMATION
INTERIOR LIGHTING	=	2582.0 WATTS
SITE AND SIGN LIGHTING	=	2880.0 WATTS
RECEPTACLE LOAD	=	7620.0 WATTS
HVAC LOAD	=	46080.0 WATTS
EQUIPMENT LOAD	=	53690.0 WATTS
TOTAL LOAD	=	112852.0 WATTS
		313.0 AMPS

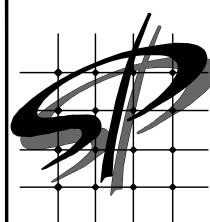




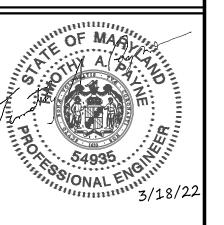








STORE PLANNING Inc 3080 SENNA DRIVE Matthews, North Carolina 28105 Phone: 704-841-7288 Fax: 704-849-6997



'Professional Certification, I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland License Number 54935 Expiration Date 9/16/2023

#	DATE	REVISION

DOLLAR GENERAL #24134 ALLEGANY COUNTY MD FLINTSTONE, MARYLAND

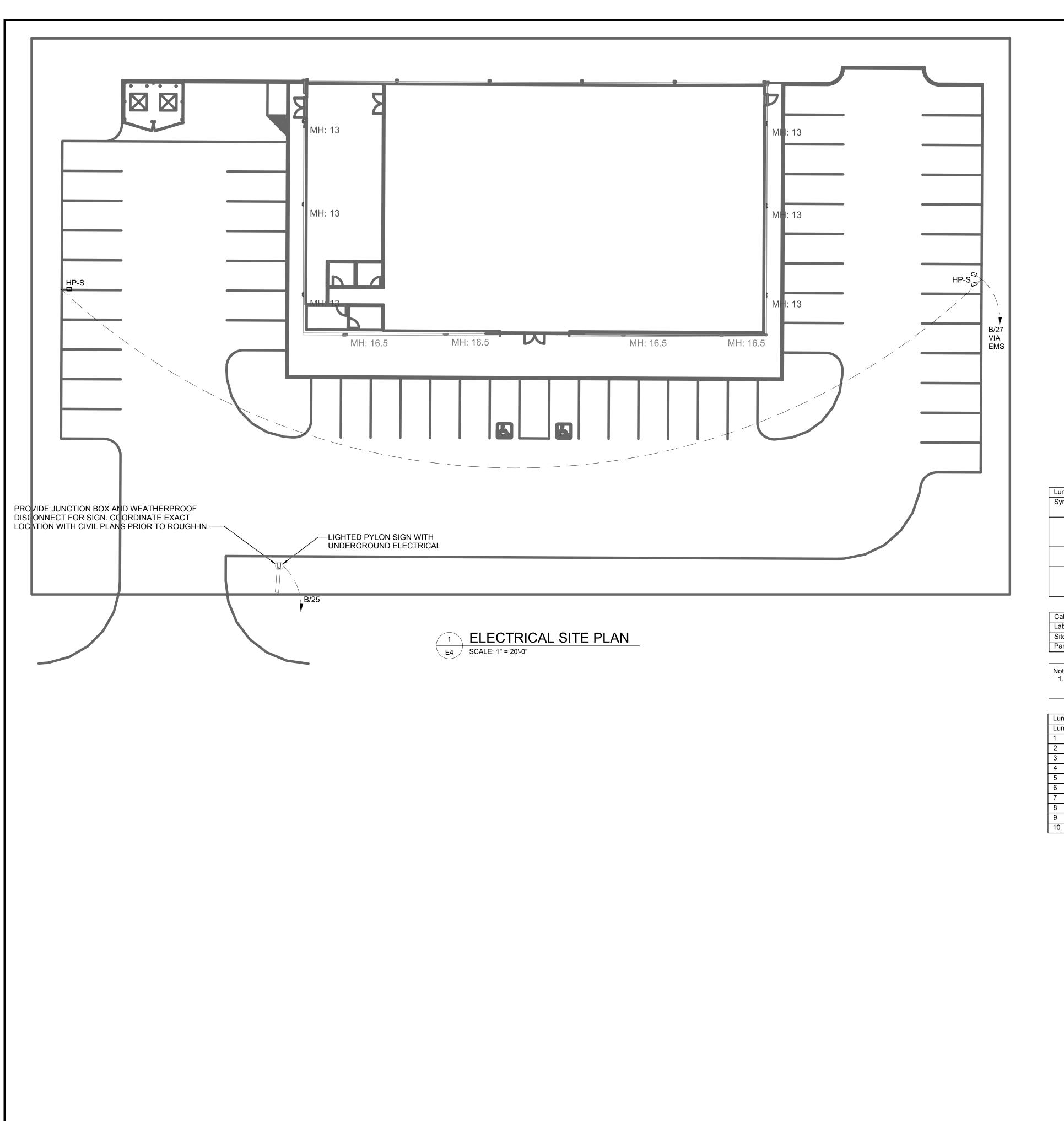
LLAR GENERAL

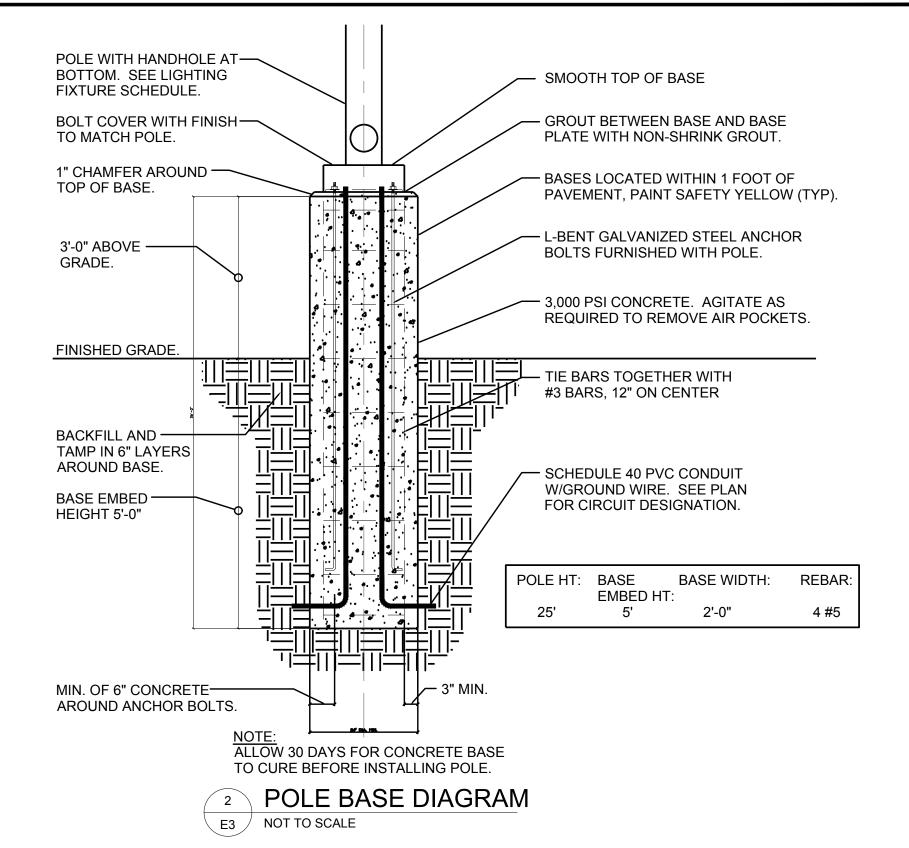
PANEL

ELECTRICAL

DOLLAR

SPI Client DATE
22116 3-18-22
SHEET NUMBER





Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire	Luminaire	Total
						Lumens	Watts	Watts
B	4	G	SINGLE	LEDBG42W001B-5000K -	0.950	4739	42.63	170.52
_				Wall Pack, 42W, Full				
				Cutoff, 5K				
$\overline{}$	4	HB	SINGLE	LEDS-AL120 - Wall Mt,	0.950	19102	150.223	600.892
				150w, Type 4, 5K				
-	2	HP-S	Single	LEDS-1210-S - Single	0.950	13622	150.236	300.472
_				Pole Mt 150w, Type 4,				
				5K, Shielded				

Calculation Summary	Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site	Illuminance	Fc	0.56	18.4	0.0	N.A.	N.A.
Parking Lot	Illuminance	Fc	2.78	11.0	0.1	27.80	110.00

Note:
1. PHOTOMETRIC CALCULATIONS AND RESULTS PERFORMED BY VENDOR AND ARE NOT COVERED BY THE P.E. SEAL ON THIS SHEET.

Luminaire Location Summary				
LumNo	Label	Z		
1	НВ	16.5		
2	НВ	16.5		
3	НВ	16.5		
4	НВ	16.5		
5	G	12		
6	G	12		
7	G	12		
8	G	12		
9	HP-S	27		
10	HP-S	27		

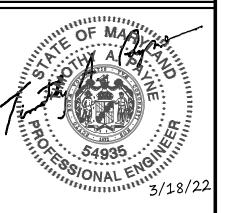
SITE LIGHTING GENERAL NOTES

- A. FINAL SIGN CONNECTION AND UNDERGROUND CONDUIT IS LANDLORD RESPONSIBILITY. PROVIDE CONDUIT FROM THE ELECTRICAL PANEL TO LOCATION OF THE PYLON SIGN BASE. BURY CONDUIT UNDER PARKING AREA. THE CONDUIT IS TO BE 1" AND HAVE ONE SET TO 10/2 WIRE WITH GROUND AND A 20-AMP TWO POLE BREAKER AT THE PANEL. A TEMPORARY 3' TALL STAKE SHALL BE PROVIDED TO DESIGNATE THE PYLON SIGN LOCATION UNTIL THE SIGN IS PERMANENTLY INSTALLED. REMOVE POST AFTER SIGN IS INSTALLED.
- B. SITE / PARKING LOT LIGHTING: PROVIDE ADEQUATE POLE AND/OR WALL LIGHTING FOR NIGHT VISION AROUND ENTRY, PARKING AND DUMPSTER PAD AREAS.
- C. MINIMUM OF 1.5 FOOT-CANDLES REQUIRED FOR ALL PAVED AREAS EXCLUDING 15' PERIMETER FROM EDGE OF PAVEMENT.
- D. REQUIRED LIGHTING: A COMBINATION OF POLE LIGHTS, FLOOD LIGHTS WITH ARM AND WALL PACKS WILL BE USED. REFER TO ELECTRICAL SITE PLAN AND SHEET E2 FOR ADDITIONAL INFORMATION.
- E. PLEASE NOTE THAT LIGHTING DESIGN AND LAYOUT SHOULD BE SITE SPECIFIC & MAY REQUIRE ADDITIONAL LIGHTING TO COMPLY WITH SITE DESIGN CONDITIONS. THEREFORE, MAKE PROVISIONS FOR MORE POLE LIGHTING WHEN A SPECIFIC SITE REQUIRES IT.
- F. UNDERGROUND ELECTRICAL SHALL BE PROVIDED TO THE SITE LIGHT POLES.
- G. WHERE LOCAL JURISDICTIONS DO NOT ALLOW DOLLAR GENERAL'S REQUIRED LIGHTING PLAN, AN ALTERNATE SITE LIGHTING PLAN & PHOTOMETRIC PLAN MUST BE SUBMITTED FOR APPROVAL TO THE DOLLAR GENERAL ARCHITECTURAL AND ENGINEERING DEPARTMENT.
- H. PHOTOMETRIC SITE ANALYSIS AVAILABLE THROUGH DOLLAR GENERAL VENDOR, LEDS LLC.
- DOLLAR GENERAL VENDOR PRICING FOR WALL PACKS OR POLE LIGHTING AVAILABLE FROM LEDS LLC.
- J. SEE SHEET E2 FOR MORE INFORMATION.
- K. VERIFY LOCAL DARK SKY REQUIREMENTS AND CONTACT VENDORS FOR APPROVED ALTERNATES IF REQUIRED.





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#	DATE	REVISION

DOLLAR GENERAL #2413
ALLEGANY COUNTY MD

LLAR GENERAL

TRIC,

ient | 16 | 3

 SPI Client
 DATE

 22116
 3-18-22

SHEET NUMBER

E4