### TOWN OF ANGIER BOARD OF ADJUSTMENT AGENDA April 23, 2024 6:30 P.M. Municipal Building 28 North Raleigh Street Angier, North Carolina 27501

- 1. Opening
- 2. Pledge Of Allegiance
- 3. Invocation
- 4. Approval of Previous Meeting Minutes
- 5. Swearing in of Witnesses for Evidentiary Hearings
- 6. New Business

**A. Special Use Permit Application** <u>Applicant</u>: Bleu Diamond Specialties LLC c/o Travis Bailey <u>Location of Property</u>: 810 N Broad St E., Angier, NC <u>Special Use Request</u>: Light Manufacturing – Cabinet Shop

- 7. Old Business
- 8. Adjournment



# Town of Angier BOARD OF ADJUSTMENT April 23, 2024



Staff Contact: Jeff Jones (919) 639-2071 jajones@angier.org

Applicant: Property Owner: Location: PIN #: Bleu Diamond Specialties LLC c/o Travis Bailey Built to Last Family Investments LLC 350 S. Raleigh St., Angier, NC 0674-73-3894

# Special Use Permit Request:Light Manufacturing in General Commercial (GC) Zoning

## **PROJECT OVERVIEW**

The Town has received a request from Bleu Diamond Specialties LLC c/o Travis Bailey to operate a cabinet shop which is considered Light Manufacturing, located 810 N Broad St E.

A new commercial building is under construction. The property owner would like to lease this new space to cabinet manufacturing shop. The cabinet shop will comprise of a manufacturing are and a sales are for the public to buy cabinets from the shop.

*Special uses*. Board of adjustment review and approval of special use permit subject to district provisions, other applicable requirements, and conditions of approval. Some special uses may also be subject to special requirements outlined in chapter 4. There are no special requirements outlined in chapter 4 regarding light manufacturing in General Commercial zoning

*Special use permits*. The development and execution of this section is based on the division of the Town of Angier into districts within which the use of land and buildings and the bulk and location of buildings and structures in relation to the land are substantially uniform. Special uses may be established, under certain conditions and with the proper controls, in such as manner as to minimize any adverse effects. In granting approval of a special use permit, the board of adjustment shall impose such reasonable terms and conditions as it may deem necessary for the protection of the public health, general welfare, and public interest.

### Town of Angier Comprehensive Plan

Angier Comprehensive Plan designates these properties as 'commercial.'

### Commercial

Commercial land uses in the Angier planning area are concentrated in the Central Business District and in scattered commercial service areas along the existing NC 55 and NC 210 corridors. Future emphasis should be placed on:

- Preservation and development of the Central Business District.
- Control of strip development. Strip development is a mix of development, usually commercial, extending along both sides of a major street. Such areas normally include poor access management and a broad range of unrelated commercial uses.
- In-fill development in existing commercial locations.
- Prohibition of commercial encroachment on existing residential neighborhoods.
- Enhancement of transportation corridor appearance.

## **Development Standards**

No additional Development standards are listed in the Zoning Ordinance for Light Manufacturing in General Commercial Zoning District.



# **Properties in Question – 3.1 Acres at 810 N Broad St. E.**

# **Zoning Map:**



# **Board Decision:**

## If Board approves Special Use Permit:

Applicant will be allowed to proceed with upfitting commercial space with a cabinet shop. All Ordinance requirements and applicable State permitting will be required prior to construction.

# If Board Denies Special Use Permit:

Applicant will not be allowed to proceed with the cabinet shop



# Special Use Permit Application

Planning Department 55 N. Broad Street W. P.O. Box 278, Angier, NC 27501 Phone: (919) 639-2071 Fax: (919) 639-6130

Total Fee:	\$500.00	
<b>Receipt:</b>		
Permit:		
Date:		
Case #:		

# **Applicant Information**

Applicant Information	C/O TRAVIS B. BAILEY
Owner of Record:	Applicant:
	Name: BLEN DATAMONO SPECIALTIES LLC
Address: 97 PEGAL CREAT DIZIVE	Address: SS RECAL CREST DR.
City/State/Zip: FVQUAT VAPUNANC 27526	City/State/Zip: FUQUAY VARINANC 2752
E-mail: thailey @localfirstbase.com	E-mail: thailey @ local first bank.com
Phone: 919-628-5500	Phone: 919-627-5500

# Property Description

LIGheith menelik				
PIN(s): 0674 -73 389	4 Ac	creage: 3.10	acres	
Address/SR No.: 936	N BRUDD ST. ANGIN	SR NC 2750		
Directions from Town Hall	: LEFT ON BROND STI			RIGHT
	JUST BEFURE CONNI	COTON TO HW	755	
Deed Book: 4155	Page: 2255-2258	Plat Book:	Page:	
Zoning District:		Township:		
Flood Plain & Panel:			Watershed Dist:	NA
Water: 🕅 Public	Sewer: 🔀 P	ublic		
Private (Well)		rivate (Septic Tan	()	

# **Requested Use:**

Special Use for:	RESIDENTAL + COMMERCE	INL CARINET	RETAIL & ASSEMBLY
	- LIGHT SHOP WORK		

Required Information: (Applications will not be accepted without this information)

1. Is an Erosion and Sedimentation Control Plan required? 
No XYes

If yes, is one on file?  $\Box$  No 💢 Yes (Please attach a copy to your application)

- SITE PLAN APPROVED & ON FILE
- 2. It is recommended that all non-residential developments have preliminary discussions with NC DOT concerning driveways and other traffic issues for each project. Has this been done?  $\Box$  No  $\Box$  Yes Date of Meeting: NCDOT Contact:

3. Is a Driveway Permit required?  $\Box$  No  $\Box$  Yes

If yes, is one on file?  $\Box$  No  $\Box$  Yes (Please attach a copy to your application)

SITE PLAN APPROVED & ON FILE

4. Have you contacted applicable local, state, and federal agencies regarding building, fire, and other possible code compliance issues?  $\Box$  No XYes

NEW CONSTRUCTION - SUBMITTING FULL BURGING PLANS

**Sketch Plan Required:** Provide a sketch plan along with application. It is <u>strongly encouraged</u> that sketch plans be prepared by a NC Professional Land Surveyor and that it meet the following (as applicable):

Name of Project & Date (Including all Revision Dates)	R,
Applicant/Owner(s) Contact Information (Name, Address, & Phone)	E,
Surveyor/Engineer Contact Information (Name, Address, & Phone)	<b>1</b> ,
Parcel ID Number/Tax ID of Tract(s)	
Deed Reference of Tract(s)	Δ,
Zoning Classification of Tract(s)	2
Location (Including Township, County, & State)	₫,
Flood Plain Depicted & Noted (Zone, Map Number, & Effective Date)	1
Watershed District Noted & Extent of Coverage Depicted	4
Map Size 22" x 34" & Scale 1"=100' or Larger	P
	I I
North Point, Graphic Scale, & Vicinity Map	E.
Name(s) & Location(s) of Adjacent Property Owner(s) & Use(s)           Existing Boundaries of Tract(s) Showing Bearings & Distances	
	-
Gross Acreage of Development	
Name(s) & Right(s)-of-way of Streets & State Road Number(s), Including Notation of Public or Private	1
Name, Location, Width, & Acreage of Additional Easement(s) &	
Right(s)-of-way Within or Adjacent to Site Building Envelope & Required Setbacks	٢.
Existing & Proposed Utilities	
Signage Location, Easement, Type, & Size	
Existing Structure(s) Located on Site	Ľ
Fire Hydrant(s) & Street Light(s) Noted	1
Erosion Control Plan Submitted	1
Hours & Days of Operation	4
Impervious Surface (% Coverage of Lot)	ď
Hazardous Materials to be Stored on Site	1
Existing & Proposed Mechanical Areas	
Existing & Proposed Trash Containment Areas	
Existing & Proposed Utility Areas	
Parking Space Typical	1
Parking Lot Material	1
All parking areas on site (Based on Type of Business and/or Sq. Ft.)	
Existing & Proposed Fencing, Screening, Gate(s) and/or Dock(s)	E.
Spillage & Pollution Prevention & Response Methods	1
Buffering Regulations (Per Town of Angier Unified Development Ordinance)	

### Signatures

I, as the landowner, hereby CERTIFY that the information contained herein is true to the best of my knowledge; and by accepting this Special Use Permit (if approved) shall in every respect conform to the terms of this application and to the provisions of the Statutes and Ordinances regulating development in the Town of Angier and its ETJ. Any VIOLATION of the terms above stated immediately REVOKES this Permit. I further understand this structure is not to be occupied until a CERTIFICATE OF OCCUPANCY is issued. This Permit expires 12 months (1 year) after the date the Permit is granted by the Town of Angier Board of Adjustment unless proper permits are obtained within this 12 month period.

### Written Statement

\*\* Applicant is required to answer the following questions under oath at the Board of Adjustment Meeting – Please print answers \*\*

### Public Convenience & Welfare

1. Why are you requesting this use? The purpose of this use is to allow property located at 836 N Broad Street, Angier, also known as Paul Bailey Business Park, Building Pad #2 to operate as a Residential and Commercial Cabinet and Assembly Business.

2. How will this use benefit the citizens of the Town of Angier? In addition to comments referenced in section #13 on this application it is important to note that a cabinet showroom with ability to custom create selections is a business of high regard in affluent areas throughout Raleigh, Cary, Durham, etc. Other markets such as Wake County have many options related to this industry and as Angier has continued to grow, businesses such as Bleu Diamond Specialties has decided to relocate from its current location in Fuquay Varina. The benefit will allow builders working on local projects to have a resource outside of going to Wake County or Durham County. In addition citizens of Angier have the option to work with a local designer on their home or commercial building remodels.

### **On-site & Surrounding Land Uses**

3.How will the use you are requesting affect the surrounding properties, residents and businesses in the area? Describe in detail why and how it will or will not affect the surrounding areas? The use described in this application should only enhance the surrounding area. The building under construction in the Business Park will be formally designed for the cabinet retailer and assembly shop. There will be limited numbers of employee vehicles compared to many uses at this location so traffic will not be an issue. There will not be any overnight hours so disturbance will not be a problem for the area, and there will not be any need for large trailers or vehicles sitting around site overnight which would be an eye sore. This business will only improve on the visual view of the area and landscape along with lighting in the general area.

### Utilities, Access Roads, Drainage, etc...

4. Describe the driveway (width and surface) that you will be using to enter and exit the property. The ingress and egress was approved as a part of the site plan approval process with the planning department at the Town of Angier. (Overall Width is 24 ft. & 27.9 at the two entrance points)

5. Describe the drainage of this property. Site plan approval actually moved water from the front of the property to the rear in the process of improving flow from its current standing.

6. How is your trash and garbage going to get to the landfill? The building will have approved dumpster pad and full commercial trash service.

### Traffic

7. Describe the traffic conditions and sight distances at the road that serves the property. Building will be located on Broad Street at the connection of Highway 55. Site plan allows for new entrance on front side of building to control ingress and egress into site. There will be limited number of employee cars and retail traffic should mainly be based on appointment. Parking was approved as a part of site plan discussions based on flex space requirements.

8. What is the approximate distance between your driveway and the next nearest driveway or intersection? Approximately 300 ft. to Broad Street and Junny Road Intersection. Approximately same distance to secondary entrance to business park.

### General

9. How many employees will this development employ? The cabinet company will have 8-10 full time employees at this location.

10. What is the estimated investment of the development? The overall investment in the overall site is approximately \$1,156,209 in addition to updates to existing building in park such as painting and flooring to match new building being constructed. Total investment in excess of \$1.2 Million in property development in addition to \$200k - \$300k in equipment and showroom updates to be completed by the tenant.

11. What experience do you have in the proposed field? The owner of Bleu Diamond Specialties Mr. Jeremy Brock has 26 years in the residential and commercial cabinet field. Mr. Brock has operated his own business for over 16 years and formed Bleu Diamond Specialties in 2014.

### Conditions

12. State any conditions that you would be willing to consider as part of the approved Special Use Permit. Property Developer Built to Last Family Investments has agreed to work with the town in many concessions and requirements such as sidewalks from Junny Road all the way down front of property line to connection at 55 Highway. Town of Angier has agreement with site engineer, grading contractor and surveyor of the developer for reimbursement on sidewalk for land not owned by developer. Developer has worked with planning department on requirements related to brick and veneer of building as well as many site plan enhancements to improve the current condition of the site and visual aspects for the residents of Angier.

**13.** Additional comments the Board should consider in reviewing your application: There are a few additional comments the developer (Travis Bailey / P. Barry Bailey) & Tenant (Jeremy Brock) would like to mention. This site was formally Paul Bailey Chevrolet, then John Hiester Chevrolet and finally CCS Equipment Services. Over the years the need for the additional land related to this location as diminished given most equipment ordered at CCS is sold upon arrival. In addition the current building site just was not inviting to folks as they drove into town on 55 entering Broad Street towards the downtown district. The existing building needed updates such as paint, flooring and new HVAC units and it was time to make some decisions about the overall landscape of the site. The improvements that

were needed to be made to match the streetscape of the town were not financially feasible without adding an additional building to the site and developing what is now known as the Paul Bailey Business Park. In addition, without an additional structure the site would continue to look empty and unappealing to residents and visitors.

The current developers worked with Jeff Jones and the team in Angier to develop a site plan to met and / or exceeds what the town was looking for to improve the overall area. This site plan will dramatically improve the ingress and egress into the town. In addition, both buildings will match in color and proximity to the street with sidewalk area making the entire area of Broad street walkable.

Lastly it was important for the developer to attract a single tenant to this location that would have a need for flex space but would add a benefit to the town that competition was not already present in addition to didn't have a need for a large laydown or storage area. Given the proximity to Broad Street it was the developers preference to not have a fenced in back yard area as ingress and egress around the building was more appealing to the visual eye coming down Broad Street. The tenant Jeremy Brock with Bleu Diamond Specialties meets or exceeds all those categories and will be a perfect neighbor to the already existing business of CCS Equipment Services. The proposed tenant will have an average cabinet job of just over \$200,000 which will bring high end client base to the Town of Angier in addition to having a cabinet line to showcase needs with a lessor budget.

It is also important to note that owner Jeremy Brock intends to get involved with the local Chamber of Commerce and the Town of Angier to help and volunteer time and efforts to continue to make this place as special as we all know that it is.

# Action by the Board of Adjustment

The Board of Adjustment shall approve, modify, or deny the Application for Special Use Permit following the Public Hearing. In granting a Special Use Permit, the Board of Adjustment shall make written findings that the applicable regulations of the district in which it is located are fulfilled. With due regard to the nature and state of all adjacent structures and uses, the district within which it is located and official plans for future development, the Board of Adjustment shall also make written findings that the following provisions are fulfilled:

- A. The requested use **will / will not** impair the integrity or character of the surrounding or adjoining districts;
- B. The requested use will / will not be detrimental to the health, morals or welfare;
- C. Adequate utilities, access streets, drainage, sanitation and/or other necessary facilities **have / have not** been made or are being provided;
- D. That adequate measures **have / have not** been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets; and
- E. That the Special Use **shall / shall not**, in all other respects, conform to the applicable regulations of the district in which it is located, except as such regulations may, in each instance, be modified by the Board of Adjustment .

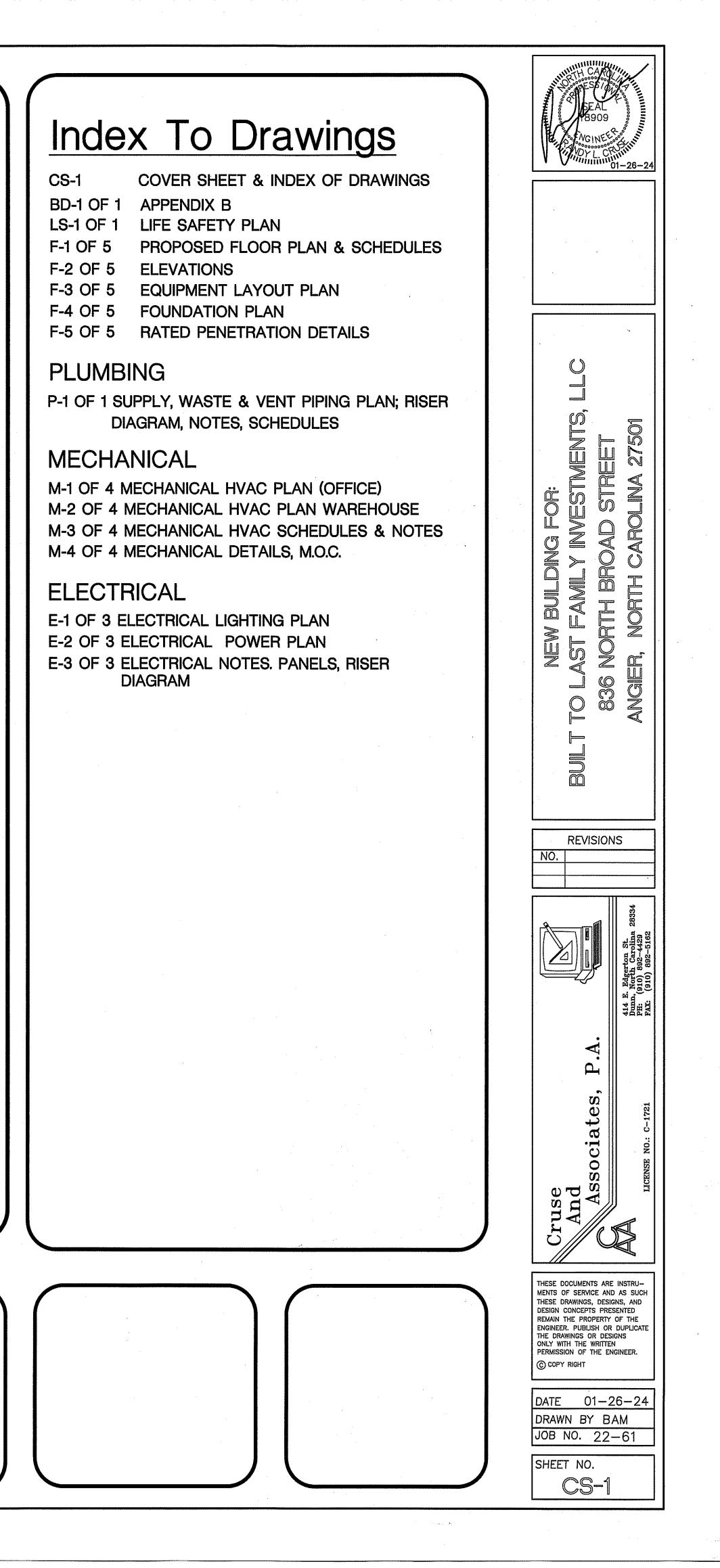
Note: There must be six (6) Board of Adjustment members present at the meeting to hear a request for a Special Use Permit. Six (6) out of the seven (7) board members must vote in favor of grating the Permit. If only six (6) board members are present at the meeting then all six (6) must vote in favor of granting the Permit. If five (5) or fewer members vote in favor of granting the Special Use Permit, the request is denied.

\*\* I have received and read the above statement: Signature Date

# BUILT TO LAST FAMILY INVESTMENTS, LLC. 836 NORTH BROAD STREET ANGIER, NORTH CAROLINA 27501

CONSULTANTS:

CRUSE AND ASSOCIATES, P.A. 414 EAST EDGERTON ST. DUNN, N.C. 28334 TEL (910) 892-4429 FAX (910) 892-5162



FOR ALL COMMERCIAL PROJECTS		ALL	OWABLE	HEIGHT			
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)			ALLOWA	BLE	SHOWN ON PL	ANS COD	
ME OF PROJECT: BUILT TO LAST FAMILY INVESTMENTS, LLC	BUILDING HEIGHT IN FEET (TABLE		FEET	55	21'0"		
DRESS: 836 NORTH BROAD STREET, ANGIER, NORTH CAROLINA ZIP CODE: 27501	BUILDING HEIGHT IN STORIES (TAI		STORIES	I	TORIES 1	<u> </u>	
NER/AUTHORIZED AGENT: ROBERT BAREFOOT PHONE #: (919) 237-4507 EMAIL: WRBAREFOOT@YAHOO.COM	1. PROVIDE CODE REFERENCE IF THI 2. THE MAXIMUM HEIGHT OF AIR TR	AFFIC CONTR	DL TOWERS	MUST COMPL	Y WITH TABLE	E 412.3.1.	)R 504.4.
DE ENFORCEMENT JURISDICTION: 🛛 CITYANGIER COUNTY STATE	3. THE MAXIMUM HEIGHT OF OPEN	PARKING GAR	AGES MUST	COMPLY WITH	TABLE 406.	5.4.	
AD DESIGN PROFESSIONAL: CRUSE & ASSOCIATES, P.A. DESIGNER FIRM NAME LICENSE # TELEPHONE NO. E-MAIL							
	BUILDING ELEMENT	FIRE	:	N REQUIREN	DETAILIDE	SIGN # DESIGN	I # FOR DE
		SEPARA DISTAN	CE	PROVIDED	AND SHEET R	FOR RA	I # FOR DE TED # RATION RA JOI
CTRICAL CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 (910) 892-4429 RCRUSE@CRUSEASSOCIATES.COM	STRUCTURAL FRAME,	(FEET	)	REDUCTION	<u>) # ASS</u>	SEMBLY	JOI
MBINGCRUSE & ASSOCIATES, P.A.RANDY CRUSE, PE18909(910) 892-4429RCRUSE@CRUSEASSOCIATES.COMHANICALCRUSE & ASSOCIATES, P.A.RANDY CRUSE, PE18909(910) 892-4429RCRUSE@CRUSEASSOCIATES.COM	INCLUDING COLUMNS, GIRDERS, TRUSSES	-	0				
NKLER-STANDPIPE CTURAL (FOUNDATION) CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 (910) 892-4429 RCRUSE@CRUSEASSOCIATES.COM	BEARING WALLS EXTERIOR		-				
INING WALLS >5' HIGH	NORTH		0		-		•••••••
IER" SHOULD INCLUDE FIRMS AND INDIVIDUALS SUCH AS TRUSS, PRECAST, PRE-ENGINEERED, INTERIOR DESIGNERS, ETC.)	WEST SOUTH		0			_	
	INTERIOR NONBEARING WALLS &		Ö				
1ST TIME INTERIOR COMPLETIONS	PARTITIONS EXTERIOR	-	- 0		-		
SHELL/CORE-CONTACT THE LEAD INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES & REQUIREMENTS	NORTH				-		
PHASED CONSTRUCTION-SHELL/CORE-CONTACT THE LEAD INSPECTION JURISDICTION FOR FOR POSSIBLE ADDITIONAL PROCEDURES & REQUIREMENTS	EAST WEST	-	0				
FOR POSSIBLE ADDITIONAL PROCEDURES & REQUIREMENTS	SOUTH INTERIOR		0				
NC EXISTING BUILDING CODE: PRESCRIPTIVE REPAIR CHAPTER 14	FLOOR CONSTRUCTION		0	_	-	-	-
	BEAMS AND JOISTS FLOOR CEILING ASSEMBLY						
UCTED: (DATE) CURRENT OCCUPANCY(S): (CH. 3) TED: (DATE) PROPOSED OCCUPANCY(S) (CH. 3):	COLUMNS SUPPORTING FLOOR	<u> </u>	_			•••••	
NCY CATEGORY (TABLE 1604.5): CURRENT: III III III III IV	ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0	-	-		
	ROOF CEILING ASSEMBLY					-	-
TRUCTION TYPE:  I I–A III–A III–A IV IV–A II–B XIII–B III–B IV–B	COLUMNS SUPPORTING ROOF SHAFT ENCLOSURES-EXIT						
KLERS: 🖾 NO 🗆 PARTIAL 🗆 YES 🔅 NFPA 13 🗀 NFPA 13R 🗀 NFPA 13D	SHAFT ENCLOSURES-OTHER CORRIDOR SEPARATION		- 0			•••	
DPIPES: 🖾 NO 🗆 YES CLASS 🗀 I 🗀 II 🗀 III 🗀 WET 🗀 DRY ARY FIRE DISTRICT: 🖾 NO 🗀 YES FLOOD HAZARD AREA: 🗀 NO 🗀 YES	OCCUPANCY SEPARATION PARTY/FIRE WALL SEPARATION		3			<u> </u>	419
CIAL INSPECTIONS REQUIRED: X NO YES (CONTACT THE LOCAL INSPECTION JURISDICTION FOR ADDITIONAL	SMOKE BARRIER SEPARATION				-		
PROCEDURES & REQUIREMENTS)	SLEEPING UNIT SEPARATION INCIDENTAL USE SEPARATION				-		-
SS BUILDING AREA: R EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL	*INDICATE SECTION NUMBER PE	RMITTING F	EDUCTION		II		
FLOOR							
ZANINE	FIRE SEPARATION DISTANCE			ENING CALC		JAL SHOWN ON	
EMENTTOTAL GROSS AREA: 10,125	(FEET) FROM PROPERTY LINES	PROTEC	TION	(%)		(%)	
ALLOWABLE AREA	30'	UP,	NS	NO LIMI	т	25.8%	
ARY OCCUPANCY CLASSIFICATION(S):							
EMBLY $\Box$ A-1 $\Box$ A-2 $\Box$ A-3 $\Box$ A-4 $\Box$ A-5 SINESS $\Box$							
	LIFE SAFETY SYSTEM REQUIRE EMERGENCY LIGHTING			NO 🖾 YE	S		
CTORY 🖾 F-1 MODERATE 🗆 F-2 LOW ZARDOUS 🔹 🗆 H-1 DETONATE 🗆 H-2 DEFLAGRATE 🗀 H-3 COMBUST 🖾 H-4 HEALTH 🗔 H-5 HPM	EXIT SIGNS: FIRE ALARM:						
	SMOKE DETECTION SY CARBON MONOXIDE D					₹TIAL	
□ I-2 CONDITION □ 1 □ 2 □ I-3 CONDITION □ 1 □ 2 □ 3 □ 4 □ 5							
	LIFE SAFETY PLAN REQUIREM						
CANTILE $\square$ IDENTIAL $\square$ R-1 $\square$ R-2 $\square$ R-3 $\square$ R-4	LIFE SAFETY PLAN SHEET #, IF F	ROVIDED <u>LS</u>	<u>-1 OF 1</u>				
RAGE 🖾 S-1 MODERATE 🖾 S-2 LOW 🖾 HIGH-PILED	AC	CESSIBLE (	WELLING	UNITS N/A	N		
		(SF	CTION 11	-		TOT11	-
PARKING GARAGE     OPEN     DENCLOSED     REPAIR GARAGE     UTILITY AND MISCELLANEOUS		,			TYPE B UNITS A	TOTAL CCESSIBLE UNITS	5
UTILITY AND MISCELLANEOUS	UNITS UNITS UNITS	LE TYPE A UNITS	TYPE A UNITS PROVIDED	UNITS		PPRC 1 V D 2P 1 1	
ORY OCCUPANCY CLASSIFICATION(S):	TOTAL ACCESSIBLE ACCESSIE UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS	UNITS	UNITS REQUIRED		PROVIDED	
UTILITY AND MISCELLANEOUS ORY OCCUPANCY CLASSIFICATION(S): TAL USES(TABLE 509):	UNITS UNITS UNITS	LE TYPE A UNITS	UNITS	UNITS	PROVIDED		
UTILITY AND MISCELLANEOUS SORY OCCUPANCY CLASSIFICATION(S): ITAL USES(TABLE 509): L USES(CHAPTER 4-LIST CODE SECTIONS):	UNITS UNITS UNITS	LE TYPE A UNITS	UNITS	UNITS	PROVIDED		
UTILITY AND MISCELLANEOUS  SSORY OCCUPANCY CLASSIFICATION(S): INTAL USES(TABLE 509): AL USES(CHAPTER 4-LIST CODE SECTIONS): AL PROVISIONS(CHAPTER 5-LIST CODE SECTIONS):	UNITS UNITS UNITS	LE TYPE A UNITS D REQUIRED	UNITS PROVIDED	ARKING-SEE			
UTILITY AND MISCELLANEOUS  SSORY OCCUPANCY CLASSIFICATION(S): NTAL USES(TABLE 509): AL USES(CHAPTER 4-LIST CODE SECTIONS): AL PROVISIONS(CHAPTER 5-LIST CODE SECTIONS): OCCUPANCY: IN NO IN YES SEPARATION:HR. EXCEPTION:	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS D REQUIRED	UNITS PROVIDED	UNITS REQUIRED	SITE PLAN	N	Тот
□ UTILITY AND MISCELLANEOUS SORY OCCUPANCY CLASSIFICATION(S):		LE TYPE A UNITS REQUIRED	SIBLE PA (SEC) PACES	ARKING-SEE TION 1106) # OF ACCESS	SITE PLAN	N PROVIDED ACES WITH	ACCES
□ UTILITY AND MISCELLANEOUS SORY OCCUPANCY CLASSIFICATION(S):	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES	SIBLE PA (SEC) PACES	ARKING-SEE	SITE PLAN	N PROVIDED	ACCES
<ul> <li>□ UTILITY AND MISCELLANEOUS</li> <li>DRY OCCUPANCY CLASSIFICATION(S):</li></ul>	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES	SIBLE PA (SEC) PACES	ARKING-SEE TION 1106) # OF ACCESS	SITE PLAN	N PROVIDED ACES WITH CESS   8' ACCES	ACCES
□ UTILITY AND MISCELLANEOUS         SSORY OCCUPANCY CLASSIFICATION(S):         NTAL USES(TABLE 509):         AL USES(CHAPTER 4-LIST CODE SECTIONS):         AL USES(CHAPTER 5-LIST CODE SECTIONS):         OCCUPANCY:       ⊠ NO         YES       SEPARATION:         HR.       EXCEPTION:         OCCUPANCY:       ⊠ NO         YES       SEPARATION:         HR.       EXCEPTION:         COUPANCY:       ⊠ NO         YES       SEPARATION:         HR.       EXCEPTION:         COUPANCY:       ⊠ NO         YES       SEPARATION:         HR.       EXCEPTION:         COUPANCY:       ⊠ NO         YES       SEPARATED USE(508.3)         THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING. SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.         SEPARATED USE (508.4)       SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEPT 1.         ACTUAL AREA OF OCCUPANCY A       ACTUAL AREA OF OCCUPANCY B <td>UNITS UNITS UNITS REQUIRED PROVIDE</td> <td>LE TYPE A UNITS REQUIRED ACCES</td> <td>SIBLE PA (SEC) PACES</td> <td>ARKING-SEE TION 1106) # OF ACCESS</td> <td>SITE PLAN</td> <td>N PROVIDED ACES WITH CESS   8' ACCES</td> <td>ACCES</td>	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES	SIBLE PA (SEC) PACES	ARKING-SEE TION 1106) # OF ACCESS	SITE PLAN	N PROVIDED ACES WITH CESS   8' ACCES	ACCES
□ UTILITY AND MISCELLANEOUS         SORY OCCUPANCY CLASSIFICATION(S):	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES	SIBLE PA (SEC) PACES	ARKING-SEE TION 1106) # OF ACCESS	SITE PLAN	N PROVIDED ACES WITH CESS   8' ACCES	ACCES
UTILITY AND MISCELLANEOUS SORY OCCUPANCY CLASSIFICATION(S):	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES	SIBLE PA (SEC) PACES	ARKING-SEE TION 1106) # OF ACCESS	SITE PLAN	N PROVIDED ACES WITH CESS   8' ACCES	ACCES
□ UTILITY AND MISCELLANEOUS         ORY OCCUPANCY CLASSIFICATION(S):	UNITS UNITS UNITS PROVIDE	LE TYPE A UNITS D REQUIRED ACCES F PARKING S PROVID	SIBLE PA (SEC) PACES ED RE	ARKING-SEE TION 1106) # OF ACCESS EGULAR WITH A ACCESS AISLE	SITE PLAN SIBLE SPACES 5' VAN SP/ 132" ACC AISLE	N PROVIDED ACES WITH CESS   8' ACCES	ACCES
□ UTILITY AND MISCELLANEOUS         SORY OCCUPANCY CLASSIFICATION(S):	UNITS UNITS UNITS PROVIDE	LE TYPE A UNITS PREQUIRED ACCES PARKING S PROVID	SIBLE PA (SEC) PACES ED RE	ARKING-SEE TION 1106) # OF ACCESS EGULAR WITH ACCESS AISLE BULAR WITH ACCESS AISLE	PROVIDED SITE PLAN SIBLE SPACES 5' VAN SP/ 132" ACC AISLE	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1	ACCES PROV
□ UTILITY AND MISCELLANEOUS         ORY OCCUPANCY CLASSIFICATION(S):	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES PARKING S PROVID 19 19 19 5ETS URI	SIBLE PA (SEC PACES ED RE	ARKING-SEE TION 1106) # OF ACCESS EGULAR WITH A ACCESS AISLE	PROVIDED	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1	
□ UTILITY AND MISCELLANEOUS         RY OCCUPANCY CLASSIFICATION(S):	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES PARKING S PROVID 19 19 19 5ETS URI	SIBLE PA (SEC PACES ED RE	ARKING-SEE TION 1106) # OF ACCESS EGULAR MITH ACCESS AISLE BULAR MITH ACCESS AISLE ACCESS AISLE BULAR MITH ACCESS AISLE	PROVIDED	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1 1 SINK DRIN	ACCES PROV
□ UTILITY AND MISCELLANEOUS         RY OCCUPANCY CLASSFICATION(S):	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES PARKING S PROVID 19 19 19 5ETS URI	SIBLE PA (SEC PACES ED RE	ARKING-SEE TION 1106) # OF ACCESS EGULAR MITH ACCESS AISLE BULAR MITH ACCESS AISLE ACCESS AISLE BULAR MITH ACCESS AISLE	PROVIDED	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1 1 SINK DRIN	
$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES F PARKING S PROVID 19 19 19 19 19 19 19 19 19 19 19 19 19	SIBLE PA (SEC PACES ED RE	ARKING-SEE TION 1106) # OF ACCESS EGULAR MITH ACCESS AISLE BULAR MITH ACCESS AISLE ACCESS AISLE BULAR MITH ACCESS AISLE	PROVIDED	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1 1 SINK DRIN	ACCES PROV
□ UTILITY AND MISCELLANEOUS         SORY OCCUPANCY CLASSIFICATION(\$):         TAL USES(TABLE 509):         L USES(CHAPTER 4-LIST CODE SECTIONS):         L DROVISIONS(CHAPTER 5-LIST CODE SECTIONS):         DOCUPANCY:       EX NO         YES       SEPARATION:         HR.       EXCEPTION;         OCCUPANCY:       EX NO         YES       SEPARATION:         HR.       EXCEPTION;         OCCUPANCY:       EX NO         YES       SEPARATED USE(508.3)         OCCUPANCY:       EX NO         YES       SEPARATED USE(508.3)         OCCUPANCY:       EX NO         YES       SEPARATED USE(508.4)         SEE BELOW FOR AREA CALCULATIONS FOR THE BUILDING.         YEAL DESUCH THAT THE SUM OF THE RATICS OF THE ACTULAL REA OF THE OCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATICS OF THE ACTULAL NOT EXCEPTION:         YEARATED USE (508.4)       SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATICS OF THE ACTULAL NOT EXCEPTION:         YEARATED USE (508.4)       SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY A AREA FOR ACTUAL AREA OF OCCUPANCY A AREA FOR ACTUAL AREA OF OCCUPANCY A AREA FOR ACTUAL AREA OF OCCUPANC	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES F PARKING S PROVID 19 19 19 19 19 19 19 19 19 19 19 19 19	SIBLE PA (SEC PACES ED RE	ARKING-SEE TION 1106) # OF ACCESS EGULAR MITH ACCESS AISLE BULAR MITH ACCESS AISLE ACCESS AISLE BULAR MITH ACCESS AISLE	PROVIDED	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1 1 SINK DRIN	ACCES PROV
□ UTILITY AND MISCELLANEOUS         SORY OCCUPANCY CLASSFICATION(S):	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES F PARKING S PROVID 19 19 19 19 19 19 19 19 19 19 19 19 19	SIBLE PA (SEC) PACES ED RE FIXTURE (TABLE NALS MALE 1 1	ARKING-SEE TION 1106) # OF ACCESS EGULAR WITH A ACCESS AISLE BULAR WIT	SITE PLAN SIBLE SPACES 5' VAN SP/ 132" ACC AISLE NTS NTS NES SERVICE SEX 1 1	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1 1 SINK DRIN REGUL 1 1 1	ACCES PROV
$   UTILITY AND MISCELLANEOUS \\ SORY OCCUPANCY CLASSIFICATION(S):$	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES F PARKING S PROVID 19 19 19 19 19 19 19 19 19 19 19 19 19	SIBLE PA (SEC) PACES ED RE FIXTURE (TABLE NALS MALE 1 1	ARKING-SEE TION 1106) # OF ACCESS EGULAR WITH A ACCESS AISLE BULAR WIT	SITE PLAN SIBLE SPACES 5' VAN SP/ 132" ACC AISLE NTS NTS NES SERVICE SEX 1 1	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1 1 SINK DRIN REGUL 1 1 1	ACCES PROV
UTILITY AND MISCELLANEOUS  SSORY OCCUPANCY CLASSIFICATION(S):	UNITS UNITS UNITS REQUIRED PROVIDE	LE TYPE A UNITS REQUIRED ACCES F PARKING S PROVID 19 19 19 19 19 19 19 19 19 19 19 19 19	SIBLE PA (SEC) PACES ED RE FIXTURE (TABLE NALS MALE 1 1	ARKING-SEE TION 1106) # OF ACCESS EGULAR WITH A ACCESS AISLE BULAR WIT	SITE PLAN SIBLE SPACES 5' VAN SP/ 132" ACC AISLE NTS NTS NES SERVICE SEX 1 1	N PROVIDED ACES WITH CESS 8' ACCES AISLE 1 1 SINK DRIN REGUL 1 1 1	ACCES PROV

THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4.

<sup>5</sup> FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.

.

E SEPARATION DISTANCE ) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)					
30'	UP, NS	NO LIMIT	25.8%					

FETY SYSTEM REQUIREM	ENTS:			
EMERGENCY LIGHTING:		NO 🖾	YES	
EXIT SIGNS:		NO 🖾	YES	
FIRE ALARM:		NO 🗆	YES	
SMOKE DETECTION SYST	TEMS: 🛛	NO 🗆	YES 🗖	PARTIAL
CARBON MONOXIDE DET	ECTION:	NO 🖾	YES	

AL TS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED	

OT OR PARKING AREA	TOTAL # OF	PARKING SPACES	# OF ACCESSIBL	TOTAL #					
	REQUIRED	PROVIDED	REGULAR WITH 5'	VAN SPACES	WTH	ACCESSIBLE			
			ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	PROVIDED			
PARKING	19	19			1	1			
	-								

					\		2302.	·/			
USE		٧	ATERCLO	SETS					SERVICE SINK	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX	UNINALS	MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
CE	REQUIRED	1	1			1	1	Ι	1	1	1
	PROVIDED	1	1			1	1		1	1	1

DESIGN LOADS:

LIVE LOADS:

GROUND SNOW LOAD:

WIND LOAD:

# SEISMIC DESIGN CA

PROVIDE THE FOLLOWING SPECT

BASIC

ANALY ARCHI

LATERAL DESIGN CO SOIL BEARING CAPA FIELD PRESU PILE S

ENERGY REQUIREMENTS: THE FOLLOWING DATA SHALL B ALSO BE PROVIDED, EACH DES IF PERFORMANCE METHOD, STA

PROPOSED DESIGN. EXISTING BUILDING ENVELOP EXEMPT BUILDING 🛛 NO CLIMATE ZONE:

METHOD OF COMPLIANCE: EN

OTHER: PERFORMANCE (SP

THERMAL ENVELOPE (PRESCRIP

RUDF/CEILING ASSEMBLY (EA DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM R-VALUE OF INSULATION: SKYLIGHTS IN EACH ASSEM U-VALUE OF SKYLIGHT: TOTAL SQUARE FOOTAGE O

EXTERIOR WALLS (EACH ASSE DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM R-VALUE OF INSULATION: OPENINGS (WINDOWS OR DO U-VALUE OF ASSEMBLY PROJECTION FACTOR

WALLS BELOW GRADE (EACH DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM

FLOORS OVER UNCONDITIONE DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM

FLOOR SLAB ON GRADE DESCRIPTION OF ASSEMBLY R-VALUE OF INSULATION: U-VALUE OF TOTAL ASSEM HORIZONTAL / VERTICAL R SLAB HEATED ?



ENERGY CODE: BUILDING CODE: MECHANICAL CODE: PLUMBING CODE: ELECTRICAL CODE: ACCESSIBILITY CODE:

CONSTRUCTION: OCCUPANCY:

ELECTRICAL SUMMAI MECHANICAL SUMMA

$STRUCTURAL DESIGN-EXISTING$ $SNOW (I_S) 1.0$ $SEISMIC (I_E) 1.0$ $ROOF 20 PSF$ $MEZZANINE N/A PSF$ $FLOOR 100 PSF$ $OAD: 15 PSF$ $BASIC WIND SPEED 118 ULT MPH (ASCE-7)$	EAL - 00000000000000000000000000000000000
EXSPOSURE CATEGORY       B         N CATEGORY       A       B       C       D         LOWING SEISMIC DESIGN PARAMETERS:       0CCUPANCY CATEGORY (TABLE 1604.5)       I       II       III       IV         SPECTRAL RESPONSE ACCELERATION       Ss       0.17 $\%_g$ S1       0.08 $\%_g$ SITE CLASSIFICATION (ASCE 7):       I       A       B       IC       II       IN       IN	
DATA SOURCE:	LDING FOR: ALY INVESTMENTS, LLC BROAD STREET TH CAROLINA 27501
ITS:         ALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL         CH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET.         C), STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS THE ANNUAL ENERGY COST FOR THE         VELOPE COMPLIES WITH CODE:       NO         YES PROVIDE CODE OR STATUTORY REFERENCE:	NEW BULL NEW BULT TO LAST FAMIL 836 NORTH BULL ANGIER, NORTH BULL
AGE OF SKYLIGHTS IN EACH ASSEMBLY       N/A         ASSEMBLY:       METAL BUILDING WALL R-19         MBLY       METAL BUILDING WALL R-19         INSSEMBLY:       0.052         ION:       R-19         ION:       N/A         DOUBLE PANE, METAL FRAME         MBLY       0.80         SOLAR HEAT GAIN COEFFICIENT:       N/A         INP       N/A         DOOR R-VALUES       1.6         EACH ASSEMBLY       N/A         MBLY       N/A         INDED SPACE (EACH ASSEMBLY)         MBLY       N/A         INDED SPACE (EACH ASSEMBLY)         MBLY       N/A         INSSEMBLY       N/A         INSSEMBLY       N/A         INSSEMBLY       N/A	P.A.
AL REQUIREMENT	Cruse And Associates, LICENSE NO.: C-1721
AS VEHICLE STORAGE, PARKING GARAGE OR REPAIR GARAGE.	MENTS OF SERVICE AND AS SUCH THESE DRAWINGS, DESIGNS, AND DESIGN CONCEPTS PRESENTED REMAIN THE PROPERTY OF THE ENGINEER. PUBLISH OR DUPLICATE THE DRAWINGS OR DESIGNS ONLY WITH THE WRITTEN PERMISSION OF THE ENGINEER. © COPY RIGHT DATE 01-26-24 DRAWN BY BAM JOB NO. 22-61 SHEET NO. BD-1 OF 1

,

# EXIT REQUIREMENTS:

		NUMBI	ER AND ARRAN	IGEMENTS OF I	EXITS	
FLOOR, ROOM OR SPACE DESIGNATION	MINI NO. OF	MUM <sup>2</sup> EXITS	TRAVEL DIS	ARRANGEMENT MEANS OF EGRESS <sup>1,3</sup> (SECTION 1016-1021)		
	REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
F-1	2	2	200'	105'-5"	69'-10"	83'-5"
BUSINESS	1	1	100'	58'-3"	N/A	N/A

 CORRIDOR DEAD ENDS (SECTION 1020.4)
 BUILDINGS W/SINGLE EXITS (TABLE 1006.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1)
 COMMON PATH OF TRAVEL (SECTION 1029.8) FXIT WIDTH

			<u> </u>						
USE GROUP OR SPACE DESCRIPTION	(a)	(b)		(c)	)	EXIT WIDTH (In)			
			CALCULATED OCCUPANT LOAD	EGRESS WDTH PER OCCUPANT (TABLE 1005.1)		REQUIRED MDTH (SECTION 1005.1) (a/b) x c		ACTUAL WIDTH SHOWN ON PLANS	
		1004.1.2)	(a/b)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
F-1	8,725	100 GROSS	88	N/A	.2	N/A	3.6"	N/A	70"
BUSINESS	1,400	100 GROSS	14	N/A	.2	N/A	2.8"	N/A	35"
TOTAL	10,125		102						

1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)

2. MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)

3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)

4. SEE SECTION 1005.6 FOR CONVERGING EXITS.

5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)

6. ASSEMBLY OCCUPANCIES (SECTION 1029)

	MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)
$\Lambda$	35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 33 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM
∕₂∖	CAPACITY OF EXIT. 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS

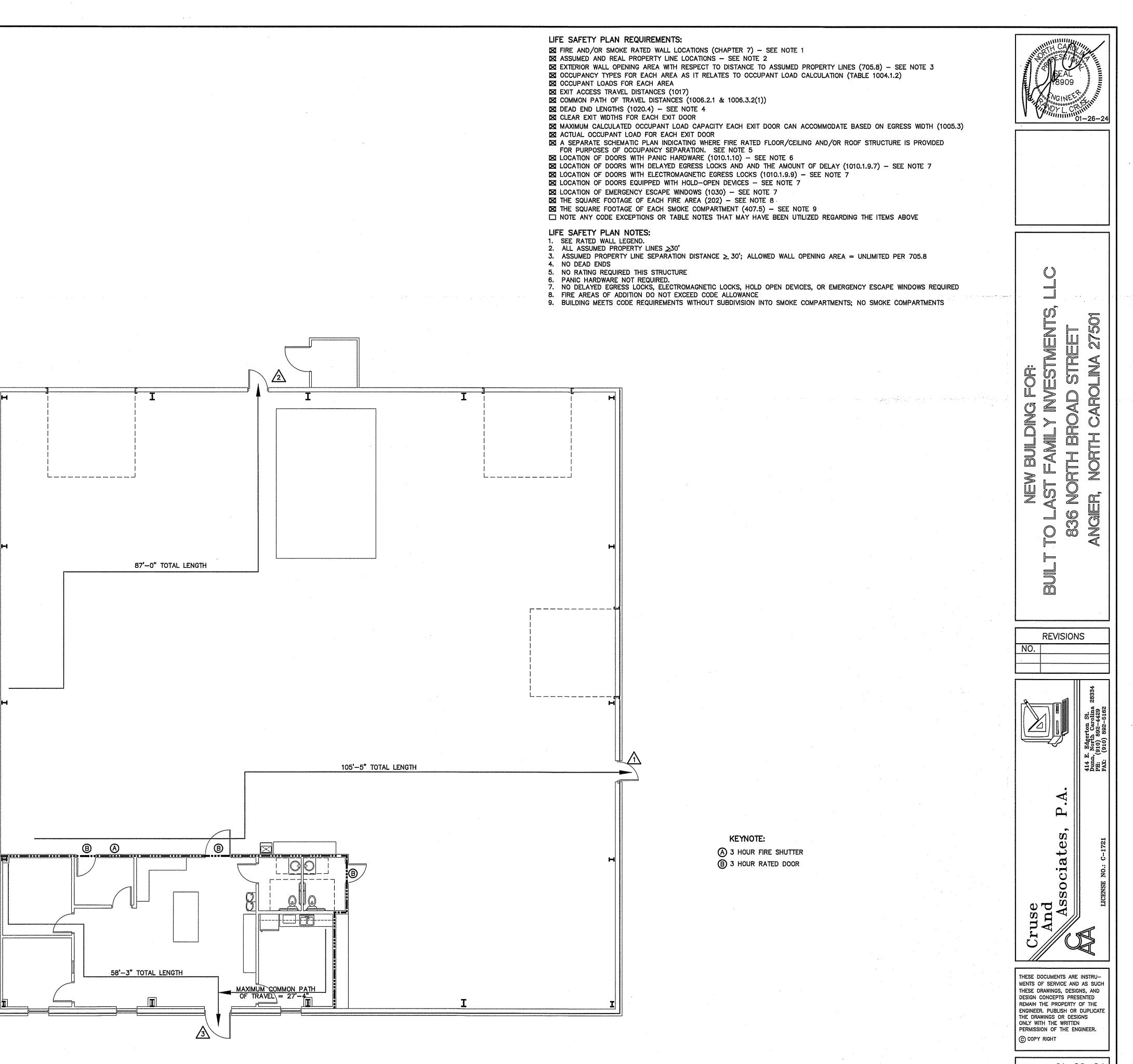
CALCULATED OCCUPANCY PER EXIT = 34 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT. /3 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS

CALCULATED OCCUPANCY PER EXIT = 33 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

NOTE: AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

LEGEND

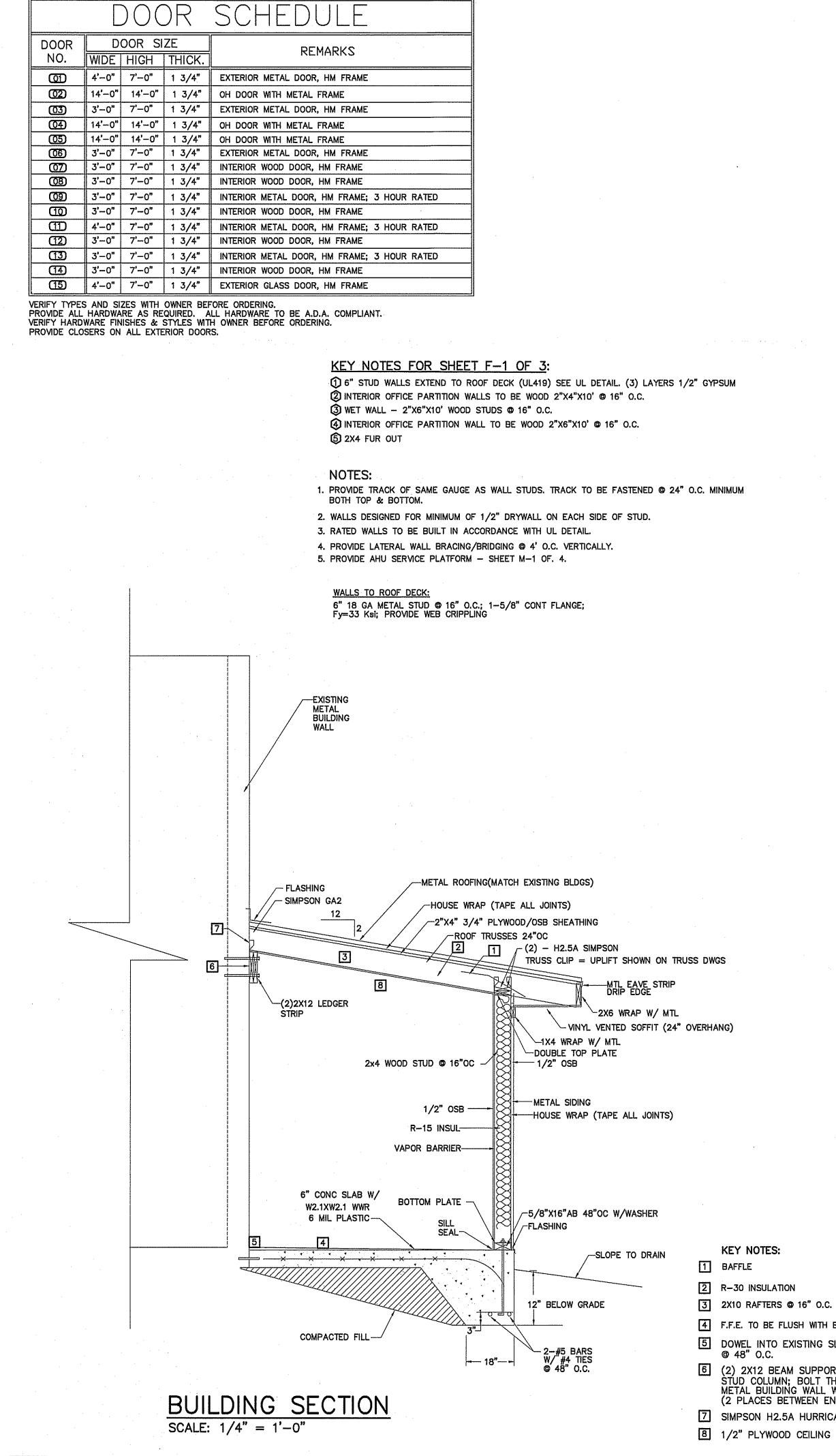
----- 3 HOUR FIRE BARRIER U419



LIFE SAFETY PLAN SCALE: 1/8" = 1'-0"

DATE 01-26-24

DRAWN BY BAM JOB NO. 22-61 SHEET NO. LS-1 OF



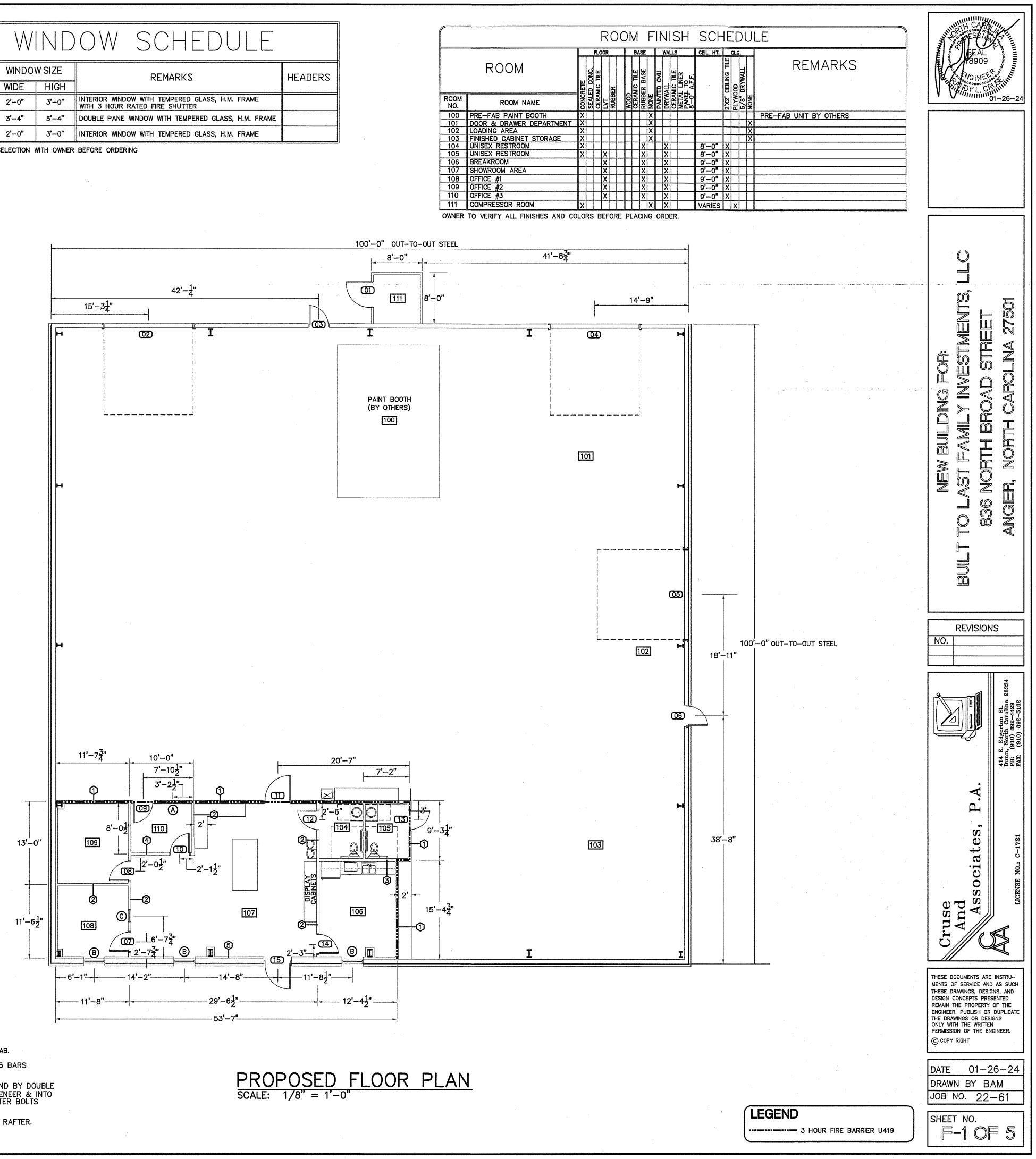
# WINDOW SCHEDULE WINDOW SIZE MARK REMARKS WIDE | HIGH INTERIOR WINDOW WITH TEMPERED GLASS, H.M. FRAME WITH 3 HOUR RATED FIRE SHUTTER (A)3'-0" 2'-0" ₿

TEMPERED GLASS, H.M. FRAME	

	ROOM
ROOM NO.	ROOM N
100	PRE-FAB PAINT
101	DOOR & DRAWER
102	LOADING AREA
103	FINISHED CABINE
104	UNISEX RESTROO
105	UNISEX RESTROO
106	BREAKROOM
107	SHOWROOM AREA
108	OFFICE #1
109	OFFICE #2
110	OFFICE #3
111	COMPRESSOR RO
OWNER	TO VERIFY ALL FI

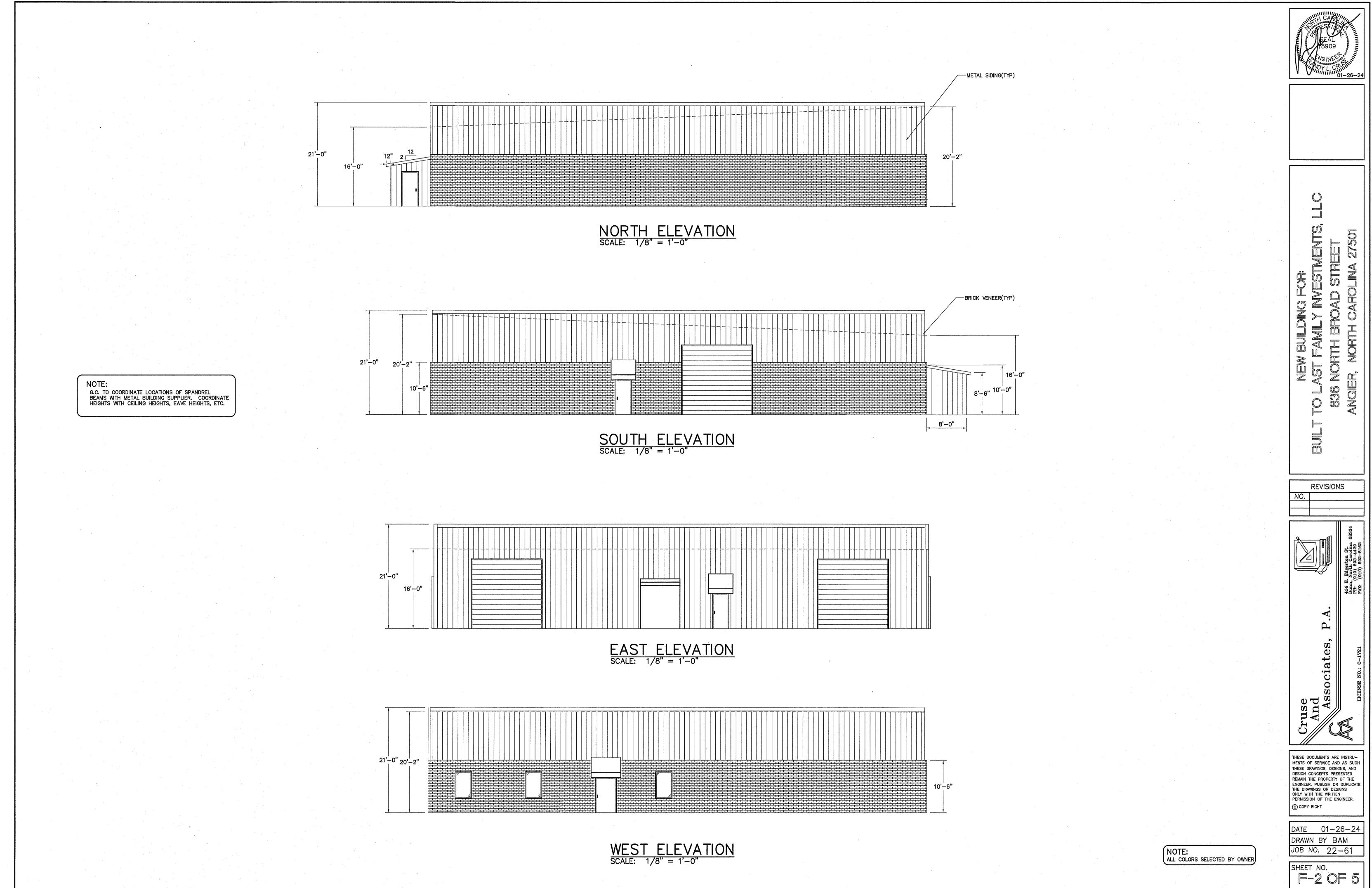
VERIFY ALL SELECTION WITH OWNER BEFORE ORDERING

©



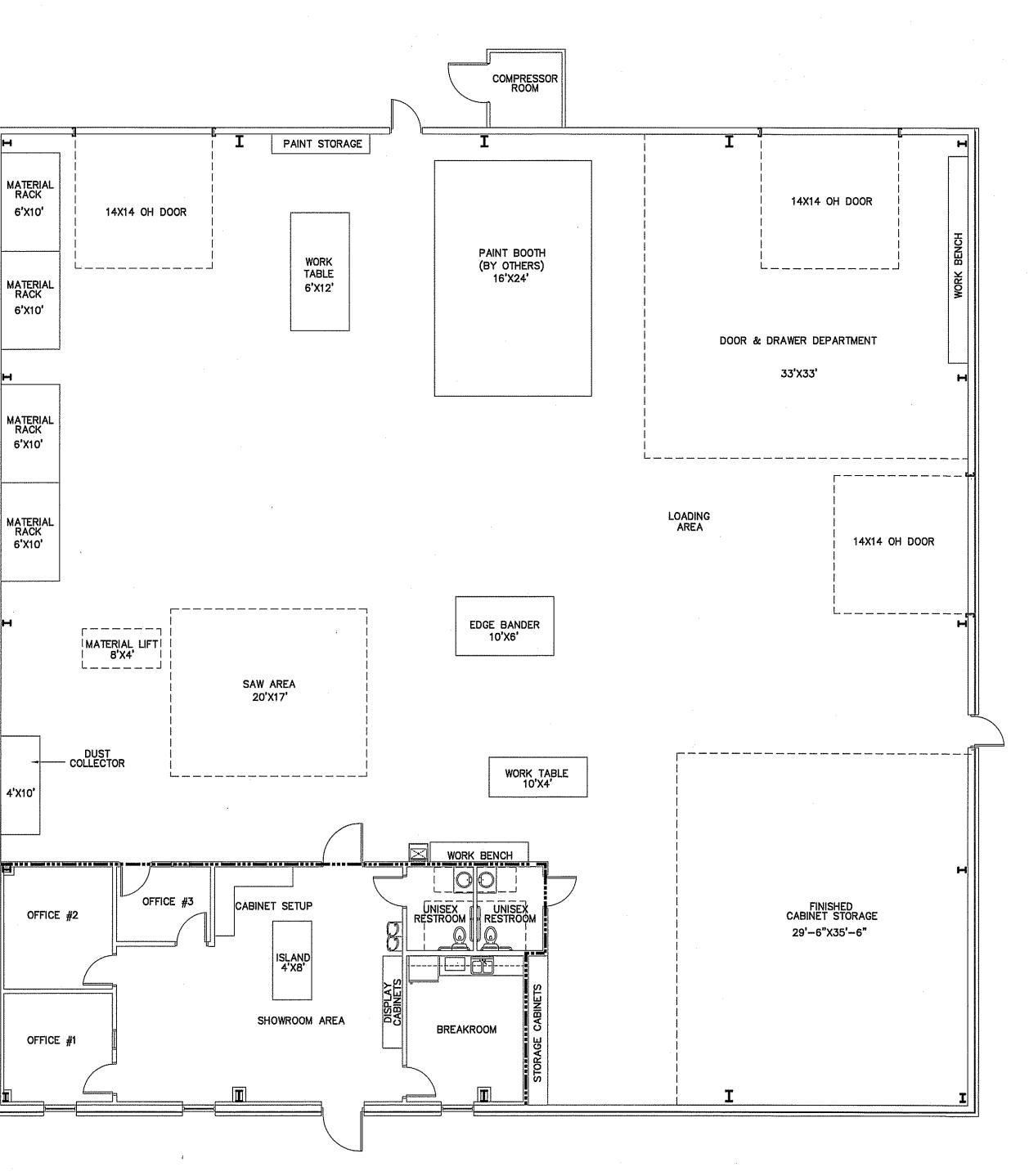
4 F.F.E. TO BE FLUSH WITH EXISTING FLOOR SLAB. 5 DOWEL INTO EXISTING SLAB WITH 10", #5 BARS @ 48" O.C.

6 (2) 2X12 BEAM SUPPORTED ON EACH END BY DOUBLE STUD COLUMN; BOLT THROUGH BRICK VENEER & INTO METAL BUILDING WALL WITH 1/2" DIAMETER BOLTS (2 PLACES BETWEEN END SUPPORTS) 7 SIMPSON H2.5A HURRICANE CLIPS EACH RAFTER.

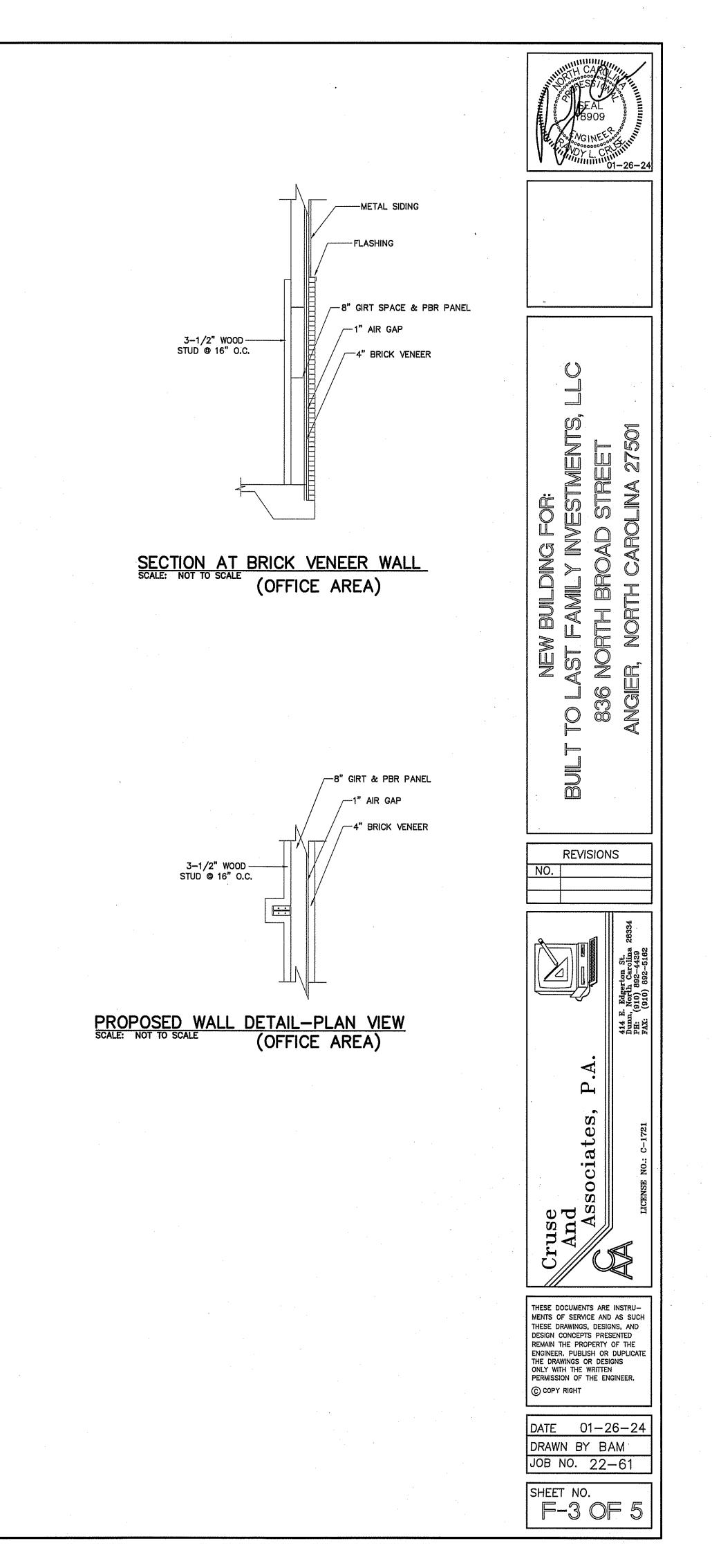


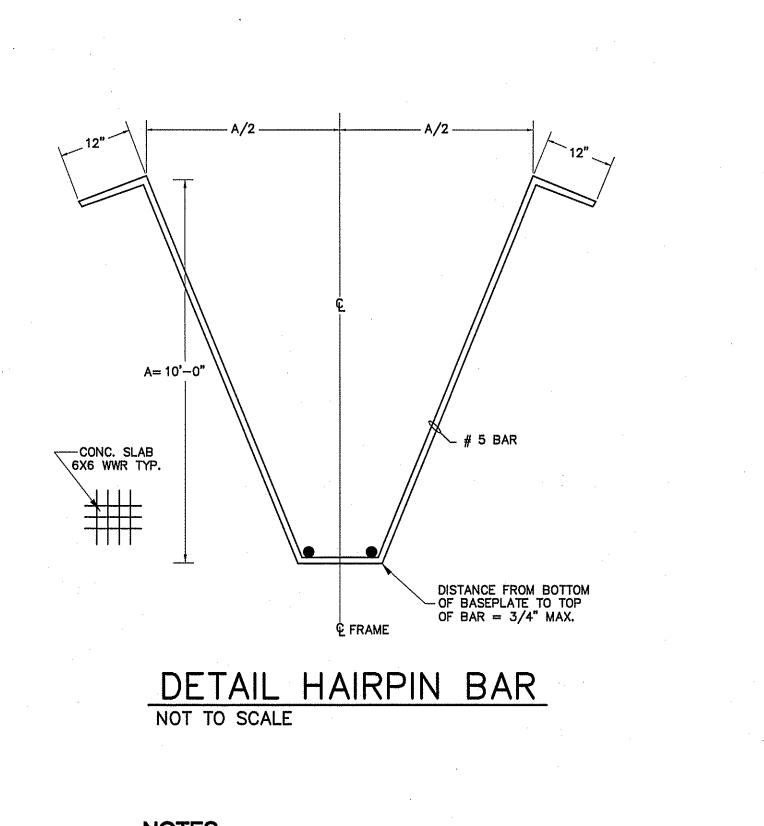
LIN	TEL SCHE	EDU	LE				
OPENING	LINTEL	·	BEARING				
0'-0" TO 1'-4"	1 PL-3-1/2 X 3/8	*	8"				
1'-4" TO 4'-0"	1 <u>L-3-1/2 X 3-1/2 X 5/16</u>	*	8"				
4'-0" TO 6'-8"	1 <u>/</u> -4 X 3-1/2 X 5/16	*	8"				
6'-8" TO 8'-0"	1 <u>L</u> -5 X 3-1/2 X 5/16	*	8"				
* PER 4" OF WALL THICKNESS NOTE: ALL UNSCHEDULED OPENINGS INCLUDING OPENINGS FOR MECHANICAL WORK SHALL BE PROVIDED WITH LINTELS IN ACCORDANCE WITH THIS SCHEDULE.							





# EQUIPMENT LAYOUT PLAN SCALE: 1/8'' = 1'-0''





# NOTES:

- 1. ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF TO VERIFIED BY CONTRACTOR. 2. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI
- AT 28 DAYS. 3. CONTROL JOINTS TO BE PLACED AS SHOWN ON PLAN.
- 4. SEE METAL BUILDING DRAWINGS FOR ACTUAL COLUMN LOCATIONS.

# NOTES:

1. G.C. TO COORDINATE METAL BUILDING DRAWINGS W/ ENGINEER'S DRAWINGS BEFORE BEGINNING CONSTRUCTION.

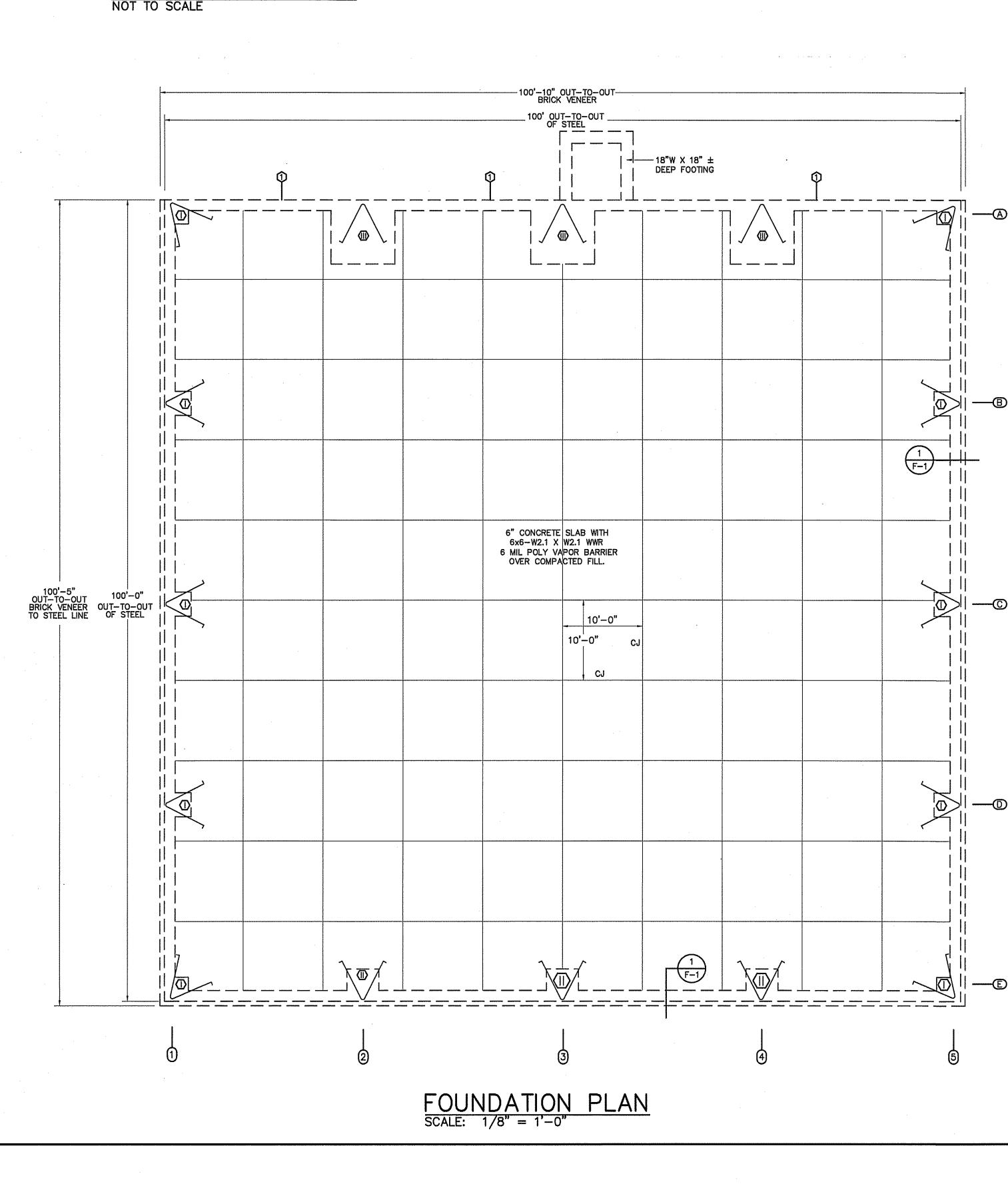
2. G.C. TO VERIFY ALL EQUIPMENT SIZES, ELECTRICAL, PLUMBING AND GAS REQUIREMENTS BEFORE BEGINNING CONSTRUCTION.

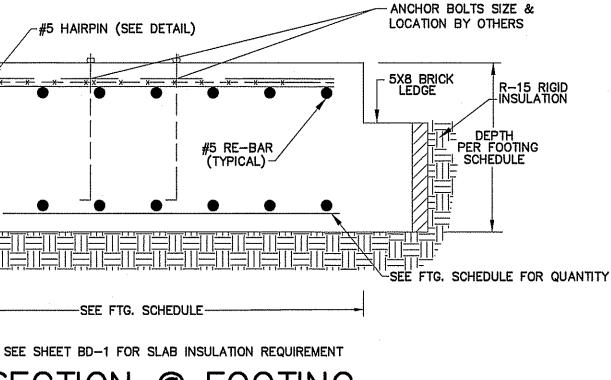
# FOUNDATION NOTES:

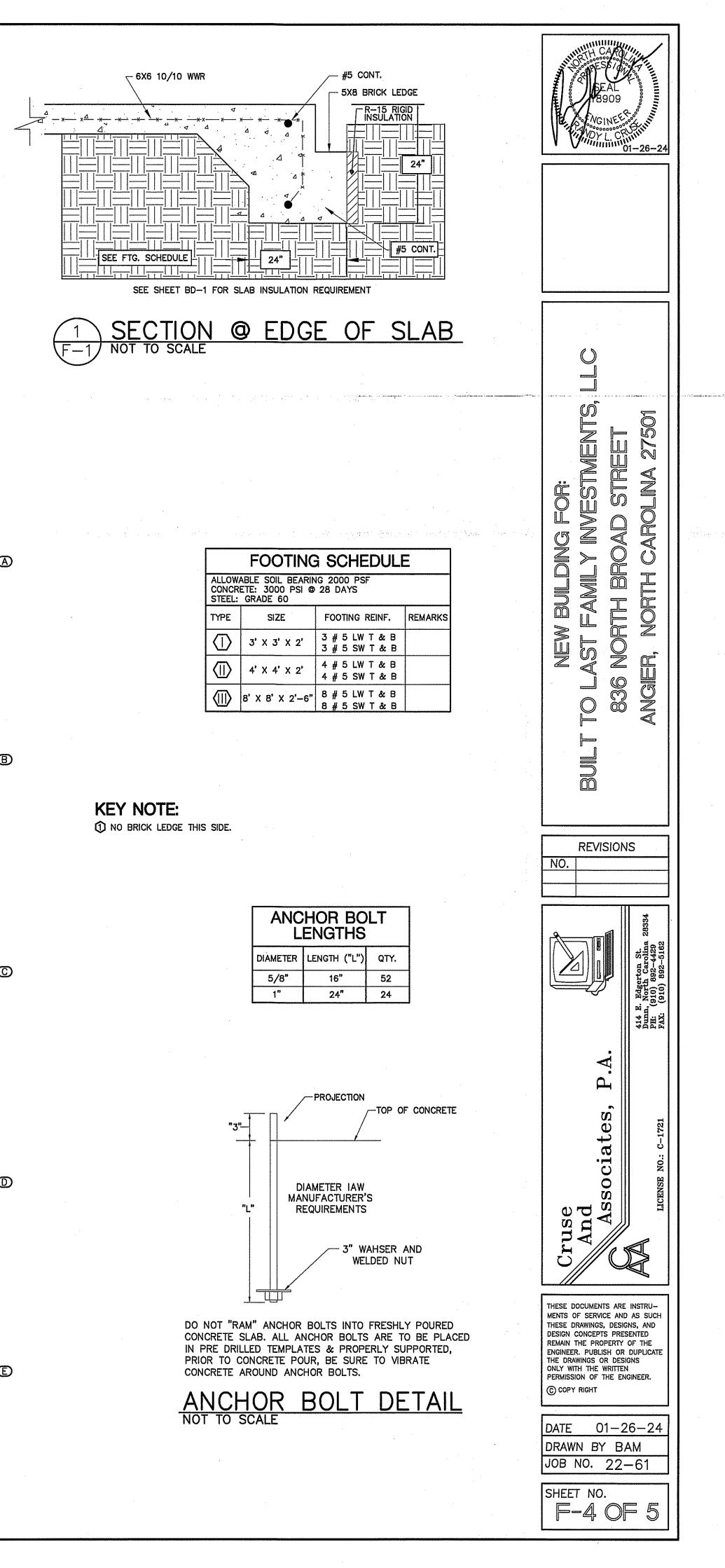
- FIELD VERIFY THE SIZE, LOCATIONS, ELEVATIONS, AND DETAILS OF ALL EXISTING CONSTRUCTION AND CONDITIONS THAT AFFECT THE WORK AND INFORM THE ENGINEER OF ANY DISCREPANCIES IN DIMENSION SIZES,
- LOCATIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK.
- . PROVIDE ALL SHORING, SHEETING, UNDERPINNING, AND OTHER MEANS REQUIRED TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY, AND STABILITY OF ALL EXISTING AND NEW CONSTRUCTION THAT MAY BE
- AFFECTED BY THE WORK. 3. CONCRETE SHALL DEVELOP COMPRESSIVE STRENGTHS (F'C) AT 28 DAYS AS FOLLOWS: FOUNDATIONS, WALLS, FOOTING, ETC. <u>3000 PSI</u> SLABS ON GRADE <u>3000 PSI</u>
- ALL BUILDING FOOTINGS AND FOUNDATIONS ARE DESIGNED BASED UPON A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. IF SUITABLE SOIL CAPABLE OF SUSTAINING THIS CAPACITY IS NOT FOUND AT THE ELEVATIONS INDICATED, THE ENGINEER SHALL BE NOTIFIED AND THE FOUNDATIONS SHALL BE CHANGED IN ELEVATION AND/OR SIZE AS DETERMINED BY THE ENGINEER.
- . CONCRETE BAR REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARD SPECIFICATION FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT ASTM A-615, GRADE 60.
- ALL STRUCTURAL FILL INSIDE THE BUILDING SHALL BE SELECTED FILL COMPACTED TO 96% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D-698)
- ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES " (ACI-315-80).
- . PROVIDE CORNER BARS AT ALL FOOTING CORNERS AND STEPS UNLESS OTHERWISE NOTED. BARS SHALL BE A MINIMUM OF 4'-0" LONG AND HAVE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND A-82.
- 10. CONTINUOUS REINFORCING BARS SHALL BE LAPPED 48 BAR DIAMETERS AT ALL SPLICES UNLESS OTHERWISE NOTED.
- 12. STANDARD CONSTRUCTION JOINTS AND EXPANSION JOINTS SHALL BE LOCATED AS SHOWN ON THE PLANS.
- 13. ALL CONCRETE SHALL BE PROTECTED AGAINST FREEZING FOR SEVEN DAYS
- AFTER POURING. 4. FLOOR SLAB TO BE POURED ON 6 MIL POLYETHELENE FILM OVER 4" THICK
- DRAINAGE FILL, COMPACTED FILL, OR OVER EXISTING CONCRETE SLAB. 15. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS AND CONSULT ALL AFFECTED SUBCONTRACTORS FOR LOCATIONS AND SIZES OF REQUIRED OPENINGS AND CAST-IN-ITEMS IN CONCRETE WORK. ALL OPENINGS ON THE STRUCTURAL DRAWINGS SHALL BE SHOWN ON SHOP DRAWINGS FOR APPROVAL.

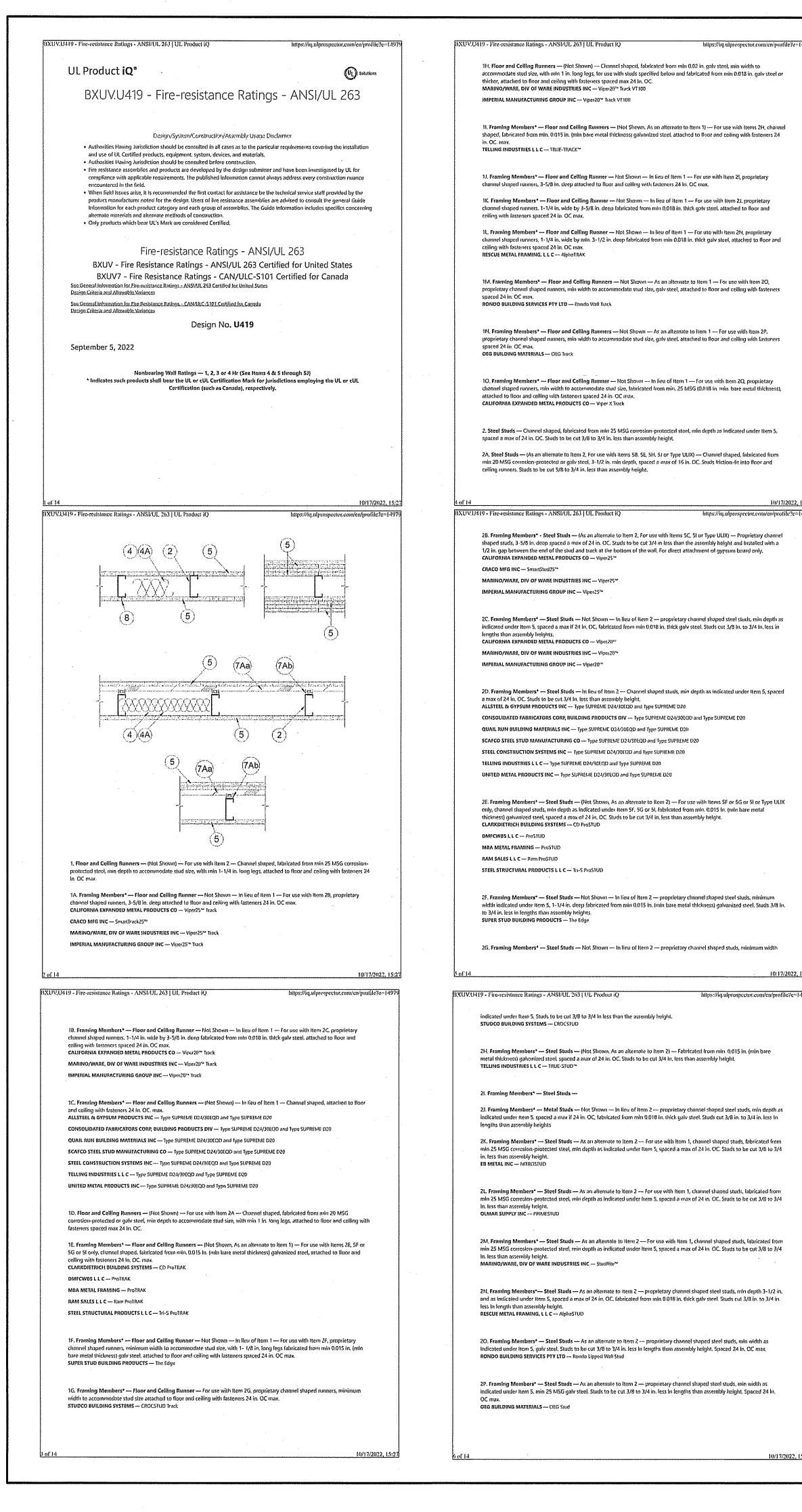
SECTION @ FOOTING

-6X6 10/10 WWR

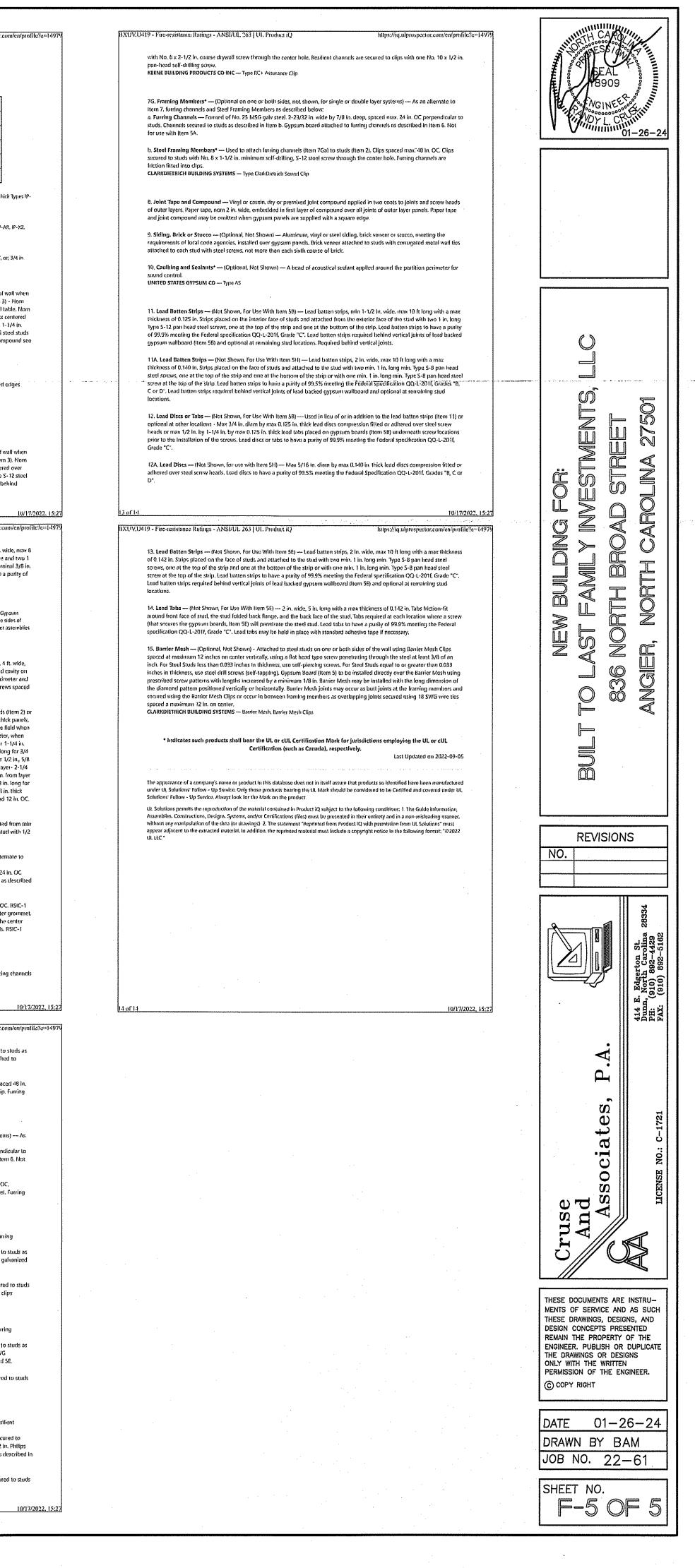








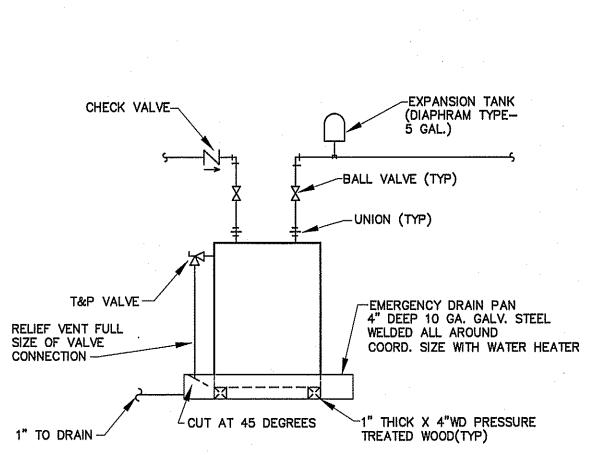
(4979	DXUV.U419 - Fite-resistance Ralings - ANSI/UL 263   UL Product it) https://iq.ulprospector.com/en/profile?c=14979	BXUV,U419 - Fire-tesistance Ratings - ANSI/UL 263 [UL Product iQ https://iq.ulprospector.c
	20. Fraining Members* — Steal Studs — Not Shown — In liqu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 In, OC, fabricated from min 25 MSG (0.018 in, min, bare metal thickness). Studs cut 3/8 in, to 3/4 in, less in lengths than assembly heights. CALFORNIA EXPANDED METAL PRODUCTS CO — Viper X	hr ratings are as follows: Gypsum Board Protection on Each Side of Wall Min Stud No, of Layers Min Thins of Daths are as follows:
		Roting,     Depth, In.     & Thickness     Insulation       Hr     Item 2E     of Panel     (Item 4)       2     1-5/8     2 layers, 1/2 in. thick     Optional
	By Wooll Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in: thick oriented     strand board (OSB) or 15/32 in: thick structural 1 sheathing (plywood) complying with OOC PS1 or PS2, or APA Standard PIRP-10B,     manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical Joints centered on studs, and     staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min, head	2         1-5/8         2 layers, 5/8 in. thick         Optional           3         1-5/9         3 layers, 1/2 in. thick         Optional
	diam. of 0.292 in. at maximum 6 in. OC, in the perimeter and 12 in. OC, in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.	3         1-5/8         3 layers, 5/8 in. thick         Optional           4         1-5/8         4 tayers, 5/8 in. thick         Optional
	<ol> <li>Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, triction filled between studs and runners. Min nom thickness as indicated under Item 5.</li> <li>See Batts and Blankets (UKINV or BZIZ) Categories for names of Classified companies.</li> </ol>	4 1-5/8 4 layers, 1/2 in. thick: Optional
	4A. Batts and Blankets' — (Optional) — Placed In stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or 82/2) Categories for names of Classified companies.	CGC INC 1/2 in. thick Type C, IP-X2 or IPC-AR:, S/8 in. thick Type AB, C, IP-AR, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 In. thi X3 or ULTRACODE THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO 1/2 In. thick Types C and 5/8 in. thick SCX
	48. Fiber, Sprayed* — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCA2). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus	UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or, 5/0 in. thick Type SCX, SGX, SHX, IP-X1, AR, C., FRX-G, IP-V IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, c thick Types IP-X3 or ULTRACODE
	<ul> <li>4C. Formed Plastic* — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5K) — Spray applied, formed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When formed plastic is used, minimum stud depth shall be 3-1/2 in.</li> <li>CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (GC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Formsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.</li> </ul>	5H. <b>Gypsum Board*</b> (Not Shown) (As an alternate to Hem 5 when used as the base layer on one or both sides of 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3 5/8 or 3/4 in, may be used as alternate to alt 5/8 or 3/4 in, shown in Item 5, Wallhoard Protection on Each Side of Waß t 5/8 or 3/4 in, thick lead backed gypsum panels with beveled, square or topered edges, applied vertically. Vertical joints
	<ul> <li>4D. Foamed Plastic* — (Where Batts and Blankers*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour roted assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in, with minimum 20 MSG steel thickness.</li> <li>BASE CORP - Energine % NM. Energine % 5F, FE178%, Spraytite # 176, Spraytite # B1206, Walkite # 200, Walkite # US, Walkite # US-N, Walkite HP+, FE137%, FE158#, Spraytite * 158, Spraytite * 97 and Spraytite # 01205</li> </ul>	over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs, Wallboard secured to studs with 1 long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsom board secured to 20 MSG s Item 28 with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field, For Joint Com Item 5. To be used with Lead Batten Stips (see Item 11A) or Lead Discs (see Item 12A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum
	5. Gypsum Board* — Gypsum panels with beveled, square or tapered erfges, applied verifically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical Joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge Joints and horizontal butt joints in adjacent layers (multilayer systems) Type UUX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:	51. Gypsum Board <sup>•—</sup> (AS <sup>-</sup> än ältérnate to item 5) — Noni, 5/8 iñ, thick gypsum panels with béveled, squaré or tapured Installed as describud in item 5. Steel stud minimum dupth shall be as indicated in item 5. CGC INC — Type ULX, ULX UNITED STATES GYPSUM CO — Type ULX, ULX USG MEXICO 5 A DE C V — Type ULX
	Gypsum Board Protection on Each Side of Wall Min No. of Min Stud Layers Tikas of	51. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of v 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with hem
	Depth, in.     & Thkns     Insulation       Rating, Hr     Items 2, 2C, 2D, 2F, 2G, 2O     of Panel     (Hem 4)       1     3-1/2     I layer, 5/8 in. thick     Optional	5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered study and staggored min 1 stud cavity on opposito sides of study. Wallboard secured to study with 1-1/4 in. Iong Type 5 screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required by
<u>15:27</u> 14979	7 of 14	10 of 14 DXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 [UL Product iQ https://iq.alprospector.c
	1         2-1/2         1 layer, 1/2 ln. thick         1-1/2 in.           1         1-5/6         1 layer, 3/4 in. thick         Optional	vertical joints of load backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 ln. v It long with a max thickness of 0.14 in, placed on the face of studs and attached to the stud with construction adhesive in, long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, norm
-	1     1     1     1     1       2     1-5/8     2 layers, 1/2 in. thick     Optional       2     1-5/8     2 layers, 5/B in. thick     Optional	diam by max 0.095 in: thick: Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a 99.9% meeting the Federal spacification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RHP - Lead Lined Drywall
	2         3-1/2         1 layer, 3/4 in, thick         3 in.           3         1-5/6         3 layers, 1/2 in. thick         Optional	5K. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic Insulation (item 4C) is used) — Any 5/8 in. thick, 4 ft. wide, Gy Board listed in item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite stude. Gypsum panels secured to studs with 1 in. long Type S steel sciews spaced 8 in OC at perimeter and in the field. For 2 layer
	31-5/82 layers, 3/4 in. thickOptional31-5/83 layers, 5/8 in. thickOptional	outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.
	4     1-5/0     4 layurs, 5/8 in. thick     Optional       4     1-5/8     4 layers, 1/2 in. thick     Optional       4     2-1/2     2 layers, 3/4 in. thick     2 in.	5L. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic Insulation (Item 4D) is used) — Any 5/8 in, thick, 4 Gypsum Board Itsted in Item 5 above. Applied vertically with vertical joints centered over studs and staggared one stud opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in, long Type 5 steel screws spaced 8 in. OC at perir in the field. For 2 layer assemblios outer layer will be attached to studs over inner layer with the 1-7/8 in, long steel screw 8 in. OC.
	CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AP; WRC, S/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, UUX, WRX or WRC; 3/4 in. thick Types IP-X3 or UUTRACODE	6. Fasteners — (Not Shown) — For use with items 2 and 2F - Type S or S-12 steel screws used to attach panels to study furting channels (item 7). Single layer systems: 1 in, long for 1/2 and 5/0 in, thick panels or 1-1/4 in, long for 3/4 in, this can be called by the study of th
	THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO 1/2 in. thick Type C and 5/8 in. thick Type SCX UNITED STATES GYPSUM CO 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FIX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULITACODE	spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced 12 in. OC in the field and perimete panels are applied horizontally or vertically.Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in. 5/8 in. thick panels or 2-1/4 in. long
	USG BORAL DRYWALL SFZ LLC 1/2 in. Type C; 5/8 in. Type:: C, SCX. SGX, ULTRACODE USG MEXICO S A DE C V 1/2 in. thick. Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick. Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or: 3/4 in. thick Types IP-X3 or ULTRACODE	In thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. <b>Three-layer systems:</b> First layer- 1 in long for 1 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third lay in. long for 1/2 in., 5/8 in. Utick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. bulow. <b>Four-layer systems:</b> First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Screws offset min 6 in.
	When Item 76, Steel Framing Members*, is used, Nonbearing Wall Rating is finited to 1 Hr. Min. stud depth is 3-1/2 (n, min. thickness of Insulation (item 4) is 3 in, and two layers of gypsum board panels (7/2 in, or 5/8 in, thick) shall be attached to furing channels as described in	1/2 ln., 5/8 ln. thick panels, spaced 24 in, OC. Third layor- 2-1/4 in, long for 1/2 ln. thick panels or 2-5/8 in, long for 5/8 i panels, spaced 24 in. OC. Fourth layer- 2-5/8 in, long for 1/2 ln, thick panels or 3 in, long for 5/8 in, thick panels, spaced Screws offset min 6 ln. from layer below.
	Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. tkick) anached to opposite side of stud without furning channels as described in Item 6. 5A. <b>Gypsum Board* —</b> (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one	<ol> <li>Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricate:</li> <li>ASG corrosion-protected steel, spaced vertically a max of 24 in, OC. Flange portion attached to each intersecting stuin, long Type S-12 steel screws. Not for use with Hem SA.</li> </ol>
	side of the assembly. Secured as described in Hem G. CGC INC — Type SHX. UNITED STATES GYPSUM CO — Type FRX-G, SHX. USG MEXICO S A DE C V — Type SHX.	7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alter item 7, furring channels and Steel Framing Members as described below; a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in, wide by 7/8 in, deep, spaced max. 24 perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as in item 6. Not for use with item 5A.
	50. <b>Gypsum Board*</b> — (Not Shown) — As an alternate to item 5 when used as the base layer on one or both sides of wall when 5/6 in or 3/4 in, thick products are specified. For direct attachment only to steel studs item 2A, (not to be used with item 3) — Nom 5/6 in, or 3/4 in, shown in tem 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in, or 3/4 in, thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum baard secured to 20 MSG steel studs item 2A, with 1-1/4 in, long Type 5-12 steel screws spaced 8 in, OC at performer and 12 in, OC in the field. To be used with	b. Steel Framing Members* Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. Of and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling. S-12 steel screw through the center RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL & L C Types RSIC-1, RSIC-1 (2.75), RSIC-V (2.75).
	Lead Batten Strips (see item 11) or Lead Discs or Tabs (see item 12). RAY-BAR ENGINEERING CORP Type RB-LEG	7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furth and Steel Framing Members on only one side of studs as described below:
15:27	8 of 14 10/17/2022, 15:27	
-1979	BXUV:U419 - Fire-resistance Rutings - ANSI/UL 263   UL Product iQ https://iq.alprospector.com/en/profile?e=14979	BXUV.0419 - Fire-resistance Ratings - ANSI/01, 263   UL Product iQ https://iq.ulprospector.ce
	5C. Gypsum Board* — (For Use With Item 28) — Rating Limited to 1 Hour. 5/8 in, thick, 48 in, wide, Gypsum panels with bevelod, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum loard is to be installed on each side of the studs with 1 in, long Type 5 coated steel scrows spaced 8 in, OC starting 4 in, from the edge of the board at the vertical	a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 In. OC perpendicular to studs. Channels secured to discribed in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attacht furring channels as described in Item 5. Not for use with Item 5A.
	edges and 12 in. OC starting 6 in, from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in, from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggred one stud cavity on opposite slites of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. Iong Type S coated steel screws spaced 8 in. OC starting 4 in, from the edge of the board at the vertical joints are to be secured to the vertical edges and 12 in. OC starting 6 in, from the edge of the board at the verteer of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in, from the edge of the board at the verteer of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 6 in, from the board edge. Fasteners shall not penetrate through both the stud and the track at the same	b. Steel Framing Members <sup>4</sup> — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips space OC, and secured to studs with two No. 6 x 2-1/2 in, coarse drywall screws, one through the hole at each end of the clip channels are friction fitted into clips. KINETICS NOISE CONTROL INC — Type Isomax
	time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory. CGC INC Type SCX, UUX, THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO Type SCX UNITED STATES GYPSUM CO Type SCX, SGX, UUX.	7C. Framing Members* (Not Shown) (Optional on one or both sides, not shown, for single or double layer system an alternate to item 7, furring channels and Steel Framing Members as described below: a. Furring Channels Formed of No. 25 MSG galv steel. 2-3/8 in, wide by 7/8 in, deep, spaced max. 24 in. CC perpend studs, Channels secured to studs as described in item b. Gypsum board attached to furring channels as described in iter for use with Item 5A.
	USG BORAL DRYWALL SFZ LLC — Type SCX USG MEXICO S A DE C V — Type SCX 5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. Thick, 48 in. wide, applied vertically or horizontally. Secured as	b. Steel Framing Members <sup>4</sup> Used to attach furning channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. O GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP
	described in item 6. For use with items 1 and 2 only. CGC INC — Type USGX UNITED STATES GYPSUM CO — Type USGX USG BORAL DRYWALL SFZ LLC — Type USGX USG MEXICO S A DE C V — Type USGX	7D. <b>Steel Framing Members*</b> — (Optional on one or both sides, not shown, for single or double layer systems) — Fun channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in, OC perpendicular to studs. Channels secured to described in item b. Ends of adjoining channels overlapped 6 in, and tied together with double strand of No. 18 AWG g
	5E. <b>Gypsum Board*</b> — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sirles of wall when 1/2 in. or 5/B in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3), Nominal 5/B in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered	steel wire Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. b. Steel Framing Members <sup>4</sup> — Used to attach furring channels (item 7Da) to studs. Clips spaced 4B in. OC and secure with 2 in. coarse drywall screw with 1 In. diarn washer through the center hole. Furring channels are friction fitted into ci STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237B
	over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in, long Type S-12 (or No. 6 by 1-1/4 in, long bugle head fine driller) steel sciews spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO Nelco	7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furri channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to described in item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG
	5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in, long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical Joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in. THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX UNITED STATES GYPSUM CO — 5/8 in. Ihick Type SCX, SGX, UEIX	galvanized steel wite. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and b. Steel Franking Members <sup>*</sup> — Used to attach furring channels (Item 7Eø) to studs. Clips spaced 49 In. OC., and secured with No. B x 2-1/2 in. coarso drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SenusClip
	UNITED STATES GYPSUM CO 5/8 in. Inick Type SCX, SGX USG BORAL DRYWALL SFZ LLC 5/8 in. Inick Type SCX, SGX	7F, Steel Framing Members* (Optional on one or both sides, not shown, for single or double layer systems) Resil channels and Steel Framing Members as described below:
	5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge Joints and Indicate on opposite sides of studs.	a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to study. Channels secu study as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as o Item 5, Not for use with Item 5A and 5E.
	joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4	b. Steel Fraining Members* — Usuif to attach resilient channels (item 7Fa) to studs, Clips spaced 48 in. OC., and secure
للغنين	<u>8 of 14</u> 10/17/2022, 15:27	12 of 14



PLUMBING FIXTURE SCHEDULE							
MARK	MAKE	MODEL	DESCRIPTION	NOTES			
P-1	AMERICAN STANDARD	CADET 2377.100	EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET HC ACCESSIBLE, TANK TYPE	WHITE 5311.012 SEAT			
P-2	AMERICAN STANDARD	AQUALYN 0476.028	SELF RIMMING DROP IN SINK	1340.227 FAUCET. PROVIDE W/BASKET DRAIN			
P-3	MUSTEE	63M	24"X24"X10" MOP SERVICE BASIN	PROVIDE W/ SERVICE FAUCET; HOSE & HOSE HOLDER; MOP HANGER; AND DURAGUARD WALL GUARDS			
P-4	OASIS	PG8ACSL	SPLIT LEVEL ELECTRIC WATER COOLER	BARRIER – FREE			
P-5	ELKAY	LR3322	33" TOP MOUNT DOUBLE BOWL STAINLESS STEEL SINK	DELTA MODEL 400 FAUCET WITH SPRAYER			
P-6	STATE	EN6-30-DMHLS (240V)	4500 WATT ELECTRIC WATER HEATER	240V 1ø			

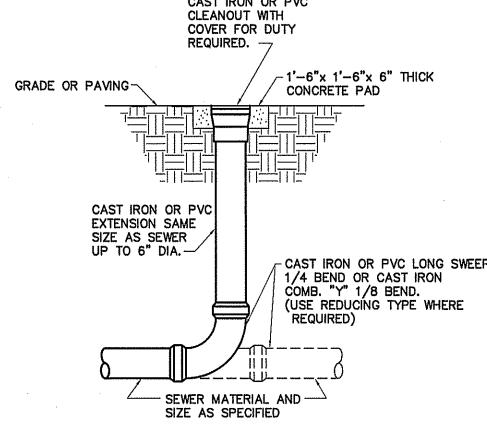
VERIFY ALL FIXTURES WITH OWNER BEFORE PURCHASE OR INSTALLATION

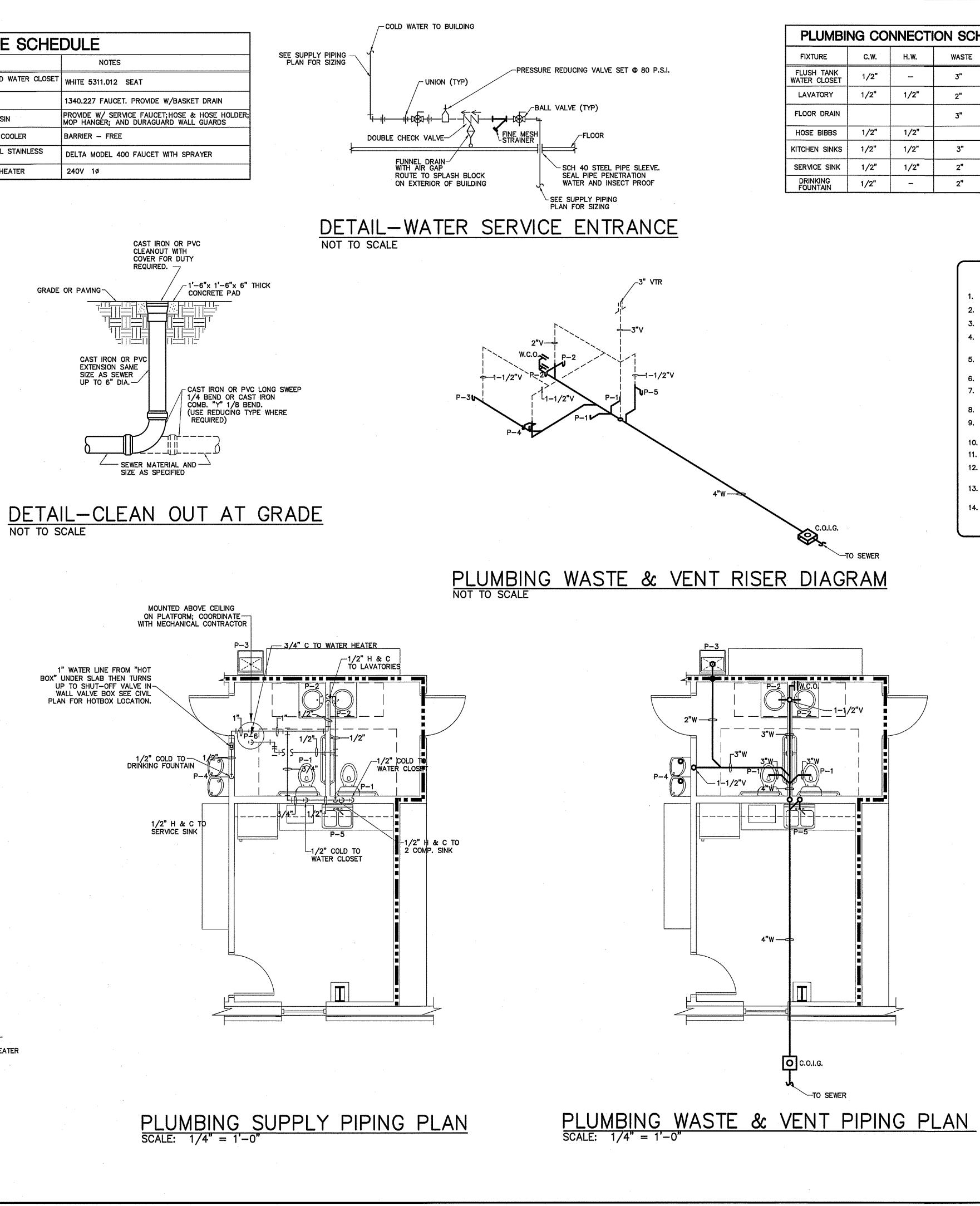
PLUMBING LEGEND							
DESCRIPTION	SY	MBOL					
COLD WATER	• • •	<u> </u>	, <u> </u>	— CW			
HOT WATER	•	**	· · · <u> </u>	— нw			
COLD WATER (FILTERED)	• •		L				
				— Hwr			
VENT PIPING		<u> </u>	· · · · · · · · · · · · · · · · · · ·	- v			
WASTE PIPING	NEW		EXISTING	• <b>-</b> W			
CLEAN OUT IN GRADE	0	C.O.I.G.					
FLOOR CLEAN OUT	0	F.C.O.					
NON FREEZE HOSE BIBB	<del></del>	NFHB					
FLOOR DRAIN	0	F.D.					
CHECK VALVE	-						
BALL VALVE	X						
GATE VALVE	$\boxtimes$						
SHUT-OFF VALVE							
DOUBLE CHECK VALVE							
FIXTURE DESIGNATION	P						
MOUNTING HEIGHT	мн						
POINT OF CONNECTION NEW TO EXISTING	Ð		<u> </u>				
FLOOR SINK							
SHOCK ABSORBER W/BALL VALVE SHUT-OFF 5-		SIZE PER RECOMMEN	MANUF. DATIONS				
CHANGE IN PIPE SIZE		- · · · · · · · · · · · · · · · · · · ·					

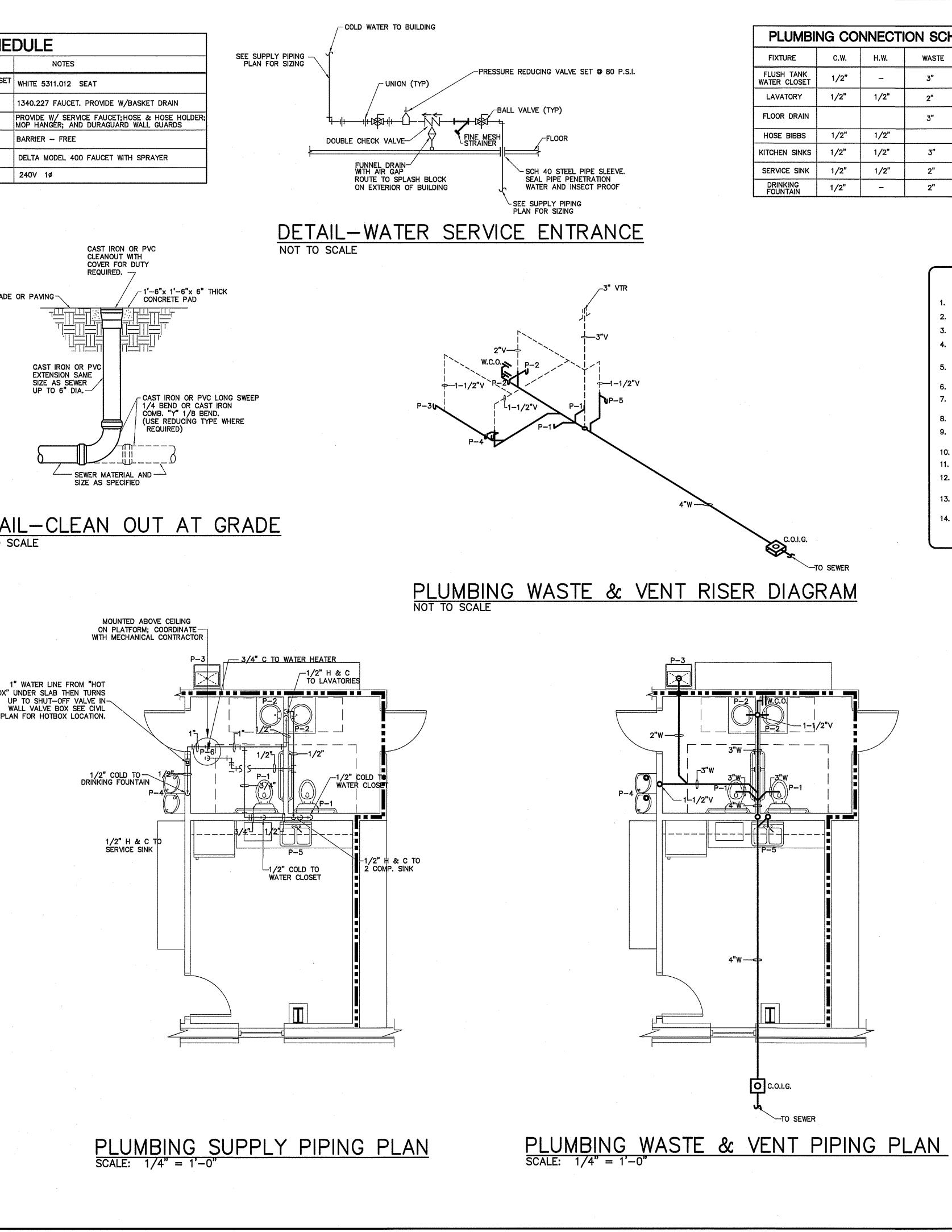


DETAIL-WATER HEATER

NOT TO SCALE





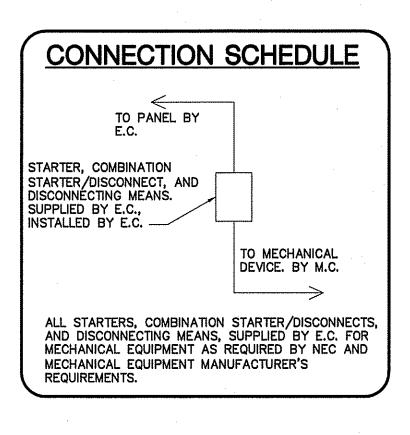


											LINE CARO	
STE	<b>IEDULE</b>	P	LUMBI	NG C	ALC	ULAI	ION	S				
	2 <sup>n</sup>	ITEM			(EACH) TOTAL	FIXTURE	UNITS HOT	(TOTAL) TOTAL	FIXTURE UNITS (WASTE)		NGINEE Contraction	
	1 1/2"	FLUSH TANK WATER CLOSET	2 5.0		5.0	10.0	-	10.0	4/8		07 L. CRUIII 01-26-24	
	2"	LAVATORY	2 1.5	1.5	2	3,0	3.0	4.0	1/3			
		2 COMP. SINK SERVICE SINK	1 3.0 1 2.2		4.0	3.0 2.25	3.0 2.25	4.0 3.0	1/1 2/2			
1	2"	DRINKING FOUNTAIN		-	.25	.50	-	.50	0.5/0.5			
• 	1 1/2"	N.F.H.B.	1 1.5		1.5	1.5	-	1.5	-			
	1 1/2"	TOTA 20.5	1			20.25	8.25	23.0	14.5			
	GENERAL	PLUMBING NOTES										•
		BE IN COMPLIANCE WITH APPLI ALL COORDINATE PIPING WITH A			E, AND	NATIONA	L CODE	S.			v z	
		L REFER TO ARCHITECTURAL			IGS FOR	DIMENS	IONS.					
	CONTRACTOR SHAL	LL FURNISH AND INSTALL DIELE 3.	CTRIC UNIC	NS AT A	LL CON	NECTION	S BETW	EEN				
5.		L FURNISH AND INSTALL ESCU ND FLOOR OPENINGS.	TCHEONS A	ND COVE	R PLAT	ES AT A	LL FINI	SHED				
7.	ALL PIPING SHALL	DISINFECTED IN ACCORDANCE N BE TESTED FOR LEAKS. IF A	NY LEAKS			•			ATIONS.)			•
	-	OLDERED OR REPLACED AND F L BE OF THE LEAD FREE TYPE									CARC N	
	WATER HEATER SH UNIONS AND ISOLA	IALL BE SUPPLIED WITH FACTO	RY INSTALL	ED T&P	VALVES	AND SH	ALL HA	VE				
10. 11.		SUPPLY PIPING SHALL BE COP PIPING SHALL BE SCH. 40 PV										
12.		TATICALLY CONTROLLED MIXING ALL HAND WASHING LOCATION				ISURE H	ΟΤ ΨΑΤ	ER				
13.	ALL FLOOR DRAIN	IS & HUB DRAINS SHALL BE P IOSE BIBS ARE PROVIDED.				EXCEPT	FLOOR	DRAIN	5 IN		NE NE NOR NOR	
14.	HOT WATER PIPIN	G SHALL BE INSULATED WITH . NG SHALL BE INSULATED WITH					1.				Z X Z H	
••••••	VAPOR BARRIER S	SHALL BE APPLIED TO EACH.	-								ANGER N	
		<b>6</b> <sup>11</sup> MAN										
	GRAB E	BAR - 6" MAX	······································							·		
		EINISH	FLUSH C - LOCATEL SIDE OF 44" MAX	ONTROL ON WID W.C.	to be e						REVISIONS	
			¥	7" MIN 9" MAX							NO.	
		<u> </u>	<b>k</b>					·			162 162 162 162	
		18" MIN. 42" MIN.	9" MIN " MAX 12"	WAX.				MIRROR	$\setminus$		414 E. Edgerton St. Dunn, North Carolina 2 PH: (910) 892-4429 FAX: (910) 892-5162	
				EINISH		X				· · ·	P.A.	
	<b>1</b>	39" MIN 41" MAX 33" MIN 36" MAX	rr	MALL		40" MAX 34" MAX	15"	MIN			ates,	
			/	] 		<b>_</b>			i		Ssociates	
		/ 6" MAX BO				·					use And Ass	
					1						C	
		B"MIN. INSULATION OR BAFFILE		34" MAX.	FINISH		. *				THESE DOCUMENTS ARE INSTRU- MENTS OF SERVICE AND AS SUCH THESE DRAWINGS, DESIGNS, AND DESIGN CONCEPTS PRESENTED	• 2
					MALL	17"	MAX.	·			REMAIN THE PROPERTY OF THE ENGINEER. PUBLISH OR DUPLICATE THE DRAWINGS OR DESIGNS ONLY WITH THE WRITTEN PERMISSION OF THE ENGINEER.	·
		6"MAX.	TOE SPACE		L	<b>/</b>			· · ·		© COPY RIGHT	
١	· · · ·						/	\ <b> </b> -+			DATE 01-26-24 DRAWN BY BAM	
		STROOM A E: 1/2" = 1'-0"	CCE	22	RIL	_    \	<u>r</u> L	ヒー	AILS	<b>)</b>	JOB NO. 22-61	
											SHEET NO	

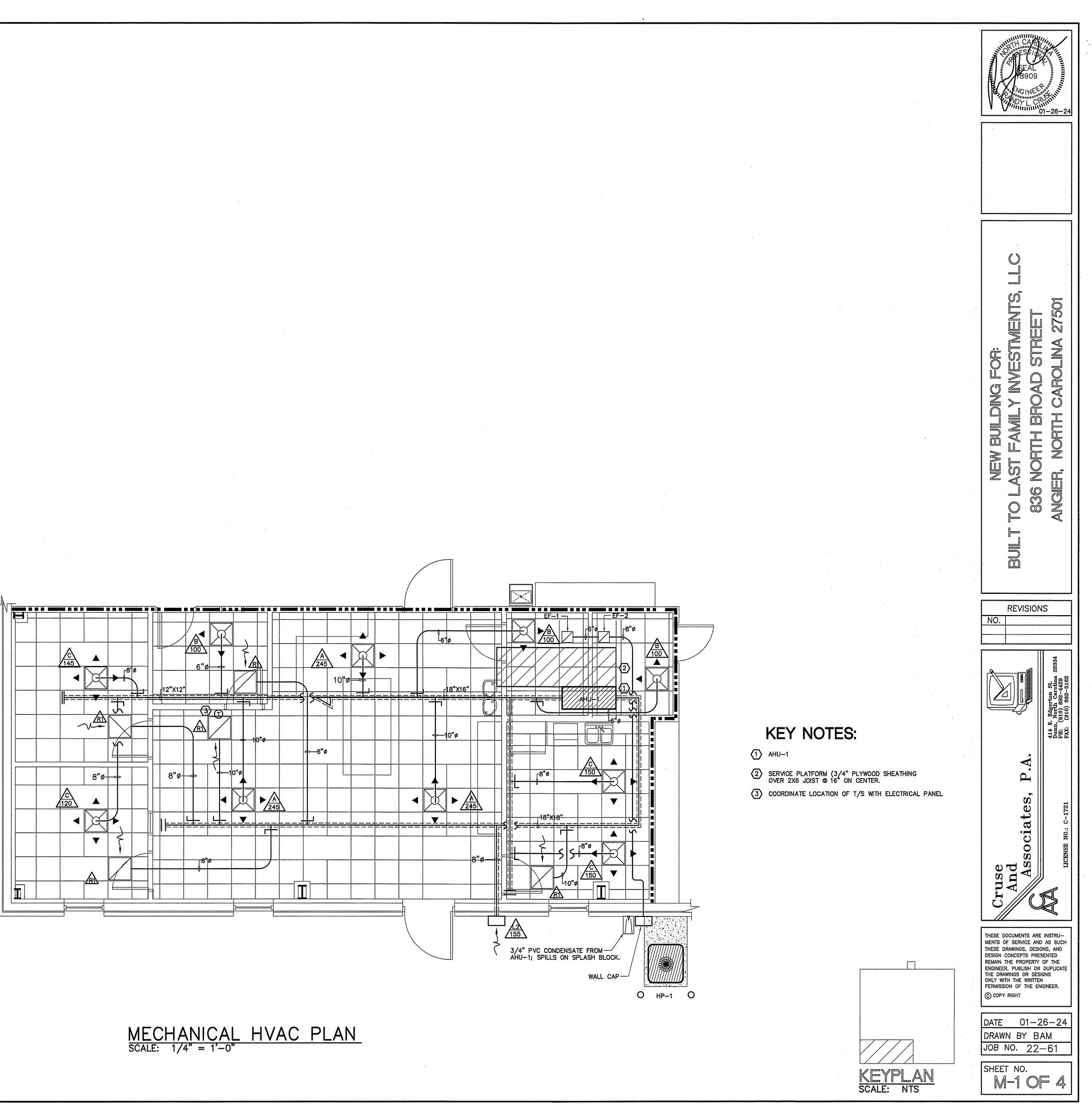
SHEET NO.

P-1 OF 1

MECHANIC	AL SYMBOL LEGEND
SINGLE LINE DOUBLE LINE	DESCRIPTION
	TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK
	BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK
<u> </u>	END CAP
	DUCT SMOKE DETECTOR
A.D	ACCESS DOOR DOOR SIZE DUCT HEIGHT <u>8X8</u> 10" <u>10X10</u> 12" 12X12 14" & LARGER
	IROL DAMPER (TYP) CEILING DIFFUSER LE DUCTWORK (14' MAX.)
	ONE SIDED REDUCING TRANSITION
F.D.(1-1/2)	F.D.=FIRE DAMPER (1-1/2)=RATED FOR 1-1/2 HRS.
	RETURN AIR OR EXHAUST GRILLE
(1-WAY) (2-WAY) (3-WAY) (4-WAY)	- SUPPLY AIR CEILING DIFFUSER, ARROW INDICATES DIRECTION OF BLOW & ACTIVE DIFFUSER SIDES
(1)CUSH CUSHION HEAD	IION HEAD © BRANCH (2)CUSHION HEAD IS EQUAL TO 1-1/2 IFFUSER RUNOUT WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT
⊨===∄ <b>-</b> <mark>}]</mark>	R.A. OR EXHAUST DUCT TURNS DOWN © 90 DEGS.
	MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE
· ·	TWO SIDED TRANSITION
<u> </u>	ELECT. DUCT INSERT HEATER WITH CONTROL PANEL
	AHU W/FLEXIBLE CONNECTION AT SUPPLY AND RETURN DUCT
-	KEY NOTE
MARK CFM-DIFFUSER, REGISTER OR GRI	LLE (SEE SCHEDULE)
	EXHAUST FAN
<u> </u>	CARBON DIOXIDE SENSOR

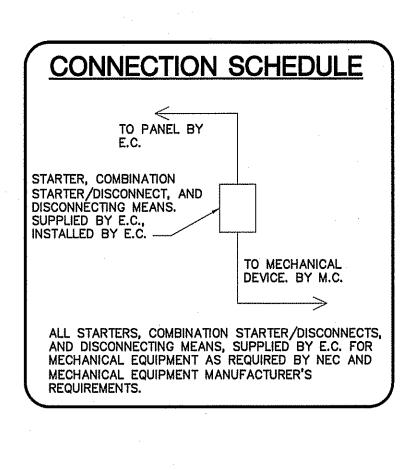


LEGEND					
	3	HOUR	FIRE	BARRIER	U419



\*\*

MECHANICA	AL SYMBOL LEGEND
<u>SINGLE LINE</u> <u>DOUBLE LINE</u>	DESCRIPTION
	TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK
	BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK
<u> </u>	END CAP
	DUCT SMOKE DETECTOR
A.D	ACCESS DOOR $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	ROL DAMPER (TYP) -CEILING DIFFUSER
	E DUCTWORK (14' MAX.)
	ONE SIDED REDUCING TRANSITION
F.D.(1-1/2)	F.D.=FIRE DAMPER $(1-1/2)$ HRS.
	RETURN AIR OR EXHAUST GRILLE
(1-WAY) (2-WAY) (3-WAY) (4-WAY)	- SUPPLY AIR CEILING DIFFUSER, ARROW INDICATES DIRECTION OF BLOW & ACTIVE DIFFUSER SIDES
-CUSHION (1)CUSHI OR DIF	ON HEAD @ BRANCH (2)CUSHION HEAD IS EQUAL TO 1-1/2 FUSER RUNOUT WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT
- 20	R.A. OR EXHAUST DUCT TURNS DOWN @ 90 DEGS.
	MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE
<b>∄ -</b> Å	TWO SIDED TRANSITION
<b>-</b>	ELECT. DUCT INSERT HEATER WITH CONTROL PANEL
	AHU W/FLEXIBLE CONNECTION AT SUPPLY AND RETURN DUCT
○ -	KEY NOTE
MARK XXX CFM-DIFFUSER, REGISTER OR GRIL	LE (SEE SCHEDULE)
<u>۲</u>	EXHAUST FAN
- ©	CARBON DIOXIDE SENSOR



LEGEND

PROVIDE WITH MOTORIZED DAMPER INTERLOCKED WITH EXHAUST EF-3 & EF-4. WHEN CO/NO2 SENSOR GOES INTO ALARM, START E.F.-3 AND E.F.-4, LOUVERS (L1) TO OPEN SIMULTANEOUSLY TO PROVIDE FRESH AIR INTAKE. SET CO ALARM AT 25 PPM AND NO2 ALARM AT 5 PPM IN ACCORDANCE WITH 2018 NC MECHANICAL CODE.  $\odot$  $\langle 1 \rangle$ **CO**H \_\_\_\_\_ \_\_\_\_\_\_ 0110 CARBON MONOXIDE SENSOR (TYPICAL) MOUNTING HEIGHT AS RECOMMENDED BY MANUFACTURER

HCO

 $\Lambda$ 

MECHANICAL HVAC PIPING PLAN SCALE: 1/8" = 1'-0"

THIS FACILITY IS DESIGNED AS A WAREHOUSE FACILITY FOR VENTILATION PURPOSES. IT IS NOT INTENDED TO BE USED AS VEHICLE PARKING, STORAGE OR REPAIR.

NOTE: MAINTAIN 10' HORIZONTAL MINIMUM SEPARATION BETWEEN INTAKE AND EXHAUST LOUVERS.

المتحجم والمستعمر والمستعد والمستعد المتحد المتحد المستعد والمستعد و

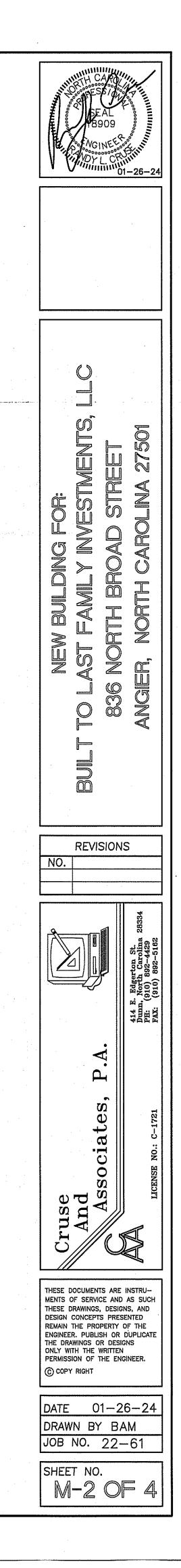
-TIED TO CO SENSORS

1 PAINT BOOTH VENTILATION BY OTHERS - TIED TO CO SENSORS

NOTE: DUST COLLECTION SYSTEM BY OTHERS.

**KEYNOTE:** 

EXHAUST FAN SEQUENCE OF OPERATION: EF-3 & 4 TO BE TIED TO CO SENSORS. UPON RISE IN CO, EF-3 & 4 TO OPERATE. CO SENSOR CONTROL SHALL OVERRIDE THE MANUAL SWITCH CONTROL OF EF-3 & 4.



								AIR	HANI	DLER	UNIT										SPLIT SYS	тем н
AHU NO.	MANUFACTURER	MODEL	VOLTAGE	Eco	OUTSIDE	CFM	UNIT FLA	REF I	LINES	SEER	HTR	COOI CAPACIT	LING Y (MBH)	HEAT CAPACIT	ING Y (MBH)	HSPF	MIN. CIRC. AMPACITY	M.O.C.P.	MARK	MANUF.	MODEL	VOLTA
		MODEL	VULIAGE	E.S.P.	AIR (CFM)	CrM		GAS	LIQ.	SEEK	KW (240)	TOTAL	SENS.	HIGH	LOW	nser	AMEAGIT					
AHU—1	TRANE	TEM4A0C48S41	240/1/60	.46	154	1600	32.0	7/8	3/8	15.2	7.68	46.6	34.6	44.4	29.1	8.5	48	50	HP-1	TRANE	4TTR5048N1000A	240/1/
	- :							· · · · · · · · · · · · · · · · · · ·			·				• · · ·	<u> </u>	·		ACCESSORIES 1 TIME-DELAY RELAY 2 CYCLE PROTECTOR		8 LOW-AM	OLENOID VA BIENT CONT

# **REGISTER, GRILLE, & DIFFUSER SCHEDULE\***

MARK	DESCRIPTION	MAX. NC	NECK	BORDER TYPE	MATERIAL	FINISH	MANUFACTURER	MODEL NUMBER	ACCESSORIES / NOTES
A	DIFFUSER-4-WAY	30	9"X9"	LAY-IN	STEEL	WHITE	TITUS	TDC 9X9 3 26 4	SQ-TO-RND
В	DIFFUSER-2-WAY	30	6"X6"	LAY-IN	STEEL	WHITE	TITUS	TDC 6X6 3 26 2	SQ-TO-RND
с	DIFFUSER-4-WAY	30	6"X6"	LAY-IN	STEEL	WHITE	TITUS	TDC 6X6 3 26 4	SQ-TO-RND
R1	RETURN GRILLE	30	14"X14"	LAY-IN	STEEL	WHITE	TITUS	23RFL 24X24 3 26	SQ-TO-RND

\* VERIFY CEILING TYPE BEFORE ORDERING, NARROW TEE REQUIREMENTS, PLASTER FRAMES ETC. TO BE INCLUDED WITH DIFFUSERS AT NO ADDITIONAL COST TO OWNER

				EXHAUST	FAN	SCHE	DULE			
	MARK		MODEL	TYDE	0514	EXTERNAL	WATTO	ELECTR	ICAL	
	MARK	MAKE	MODEL	TYPE	CFM	5.F. IN (W.G.)	WATTS	VOLT	PH	
-	EF—1,2	GREENHECK	SP-B90	CEILING FAN	75	.25	49.7	115	1ø	

	,		EXHAUST	FAN	SCHE	DULE				
MADIC	11110	MODEL	TVDE	0514	EXTERNAL	WATTO	ELECTR			NOTES
MARK	MAKE	MODEL	TYPE	CFM	S.P. IN (W.G.)	WATTS	VOLT	PH	HZ	MODEL WD-320 MOTORIZED EXHAUST DAMPER, BIRD SCREEN
EF-3 & 4	GREENHECK	SE1-8-440-D	DIRECT DRIVE	260	.15	75	115	1ø	60	WEATHERHOOD, & WALL COLLAR GALVANIZED FINISH

	LOUVER SCHEDULE											
MARK	DESCRIPTION	CFM	APPROXIMATE OUTSIDE DIMENSIONS ( W X H)	FREE AREA(SF)	MAXIMUM VELOCITY OR S.P. DROP	MATERIAL	FINISH	MANUFACTURER	MODEL NO.	NOTES		
L1	WALL LOUVER	300	18"W X 18"H	1.4	500 FPM	ALUMINUM	COLOR ANODIZED MATCH METAL PANELS*	HART & COOLEY	1530ZF	PROVIDE WITH MOTORIZED DAMPER SEQUENCE DAMPER TO OPEN WHEN FAN IS RUNNING		
L2	WALL LOUVER	154	12"W X 12"H	0.6	400 FPM	ALUMINUM	COLOR ANODIZED MATCH METAL PANELS*	HART & COOLEY	1530ZF			

\* VERIFY COLOR WITH OWNER

	· ·
	- · ·
IUMBER	ACCESSORIES / NOTES

NOTES ΗZ 60 WC-8 WALL CAP

# MECHANICAL-HVAC SCHEDULES/DETAILS

NO SCALE

EVAPORATOR FREEZE PROTECTOR

4 ISOLATION RELAY

6 HIGH PRESSURE SWITCH

5 TXV

T-STAT: THE NUMBER OF STAGES OF HEATING/COOLING SHALL MATCH THE NUMBER OF STAGES OF HEAT AVAILABLE IN THE HPIU OR THE NUMBER OF STAGES OF COOLING AVAILABLE IN THE HPOU. PROVIDE WITH T-STAT; 7 DAY PROGRAMMABLE, DIGITAL.

**MECHANICAL NOTES (GENERAL)** 

- 4. ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.
- OR EQUIPMENT.
- INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
- TURNING VANES.
- SYSTEMS. COORDINATE WITH ALL OTHER SYSTEMS AS NECESSARY.
- SUPPLY A COMPLETE SYSTEM IN EACH AREA. 12. DUCT SIZES SHOWN ARE NET DIMENSIONS.

IT SYS	rem heat	PUMP	UNITS			
AODEL	VOLTAGE	# COMP.	MIN. CIRC. AMPACITY	М.О.С.Р.	UNIT FLA.	ACCESSORIES
048N1000A	240/1/60	1	24	40	19.4	EXCLUDE 8,18
8 LOW-AMB	DLENOID VALVE			14 \$		INE MUFFLER

9 FILTER DRIER (LIQUID LINE) 10 OUTDOOR T'STAT TO LOCK OUT AUX. HT. (SET @ 40° F ADJ) 11 LOW PRESSURE CONTROL 12 CRANKCASE HEATER

SHUT OFF VALVES 15 THERMOSTAT (SEE NOTE) 16 SUPPORT FEET 17 COIL GUARDS 18 HUMIDISTAT

COOLING CAPACITY © 80 DEG. F DB/67 DEG WB AIR ENTERING INDOOR UNIT & 95 DEG. F DB AIR ENTERING OUTDOOR UNIT HEATING CAPACITY: HIGH TEMP = 70 DEG F DB INDOOR EAT & 47 DEG F DB/43 DEG F WB AIR ENTERING OUTDOOR UNIT LOW TEMP = 70 DEG F DB INDOOR EAT & 17 DEG F DB/?? DEG F WB ENTERING OUTDOOR UNIT

1. DUCTWORK LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT ARE NOT SHOWN SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

2. DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUNOUTS SHALL NOT EXCEED 15' AND SHALL NOT BE USED TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS.

3. SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH A MINIMUM THERMAL RESISTANCE OF R-5.0 (IN UNCONDITIONED AREAS) AND AN "FSK" VAPOR BARRIER. DIFFUSERS SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER. ALL JOINTS SHALL BE TAPED WITH A FOIL BACKED TAPE TO PROVIDE A CONTINUOUS VAPOR BARRIER.

5. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PIPING, DUCTWORK,

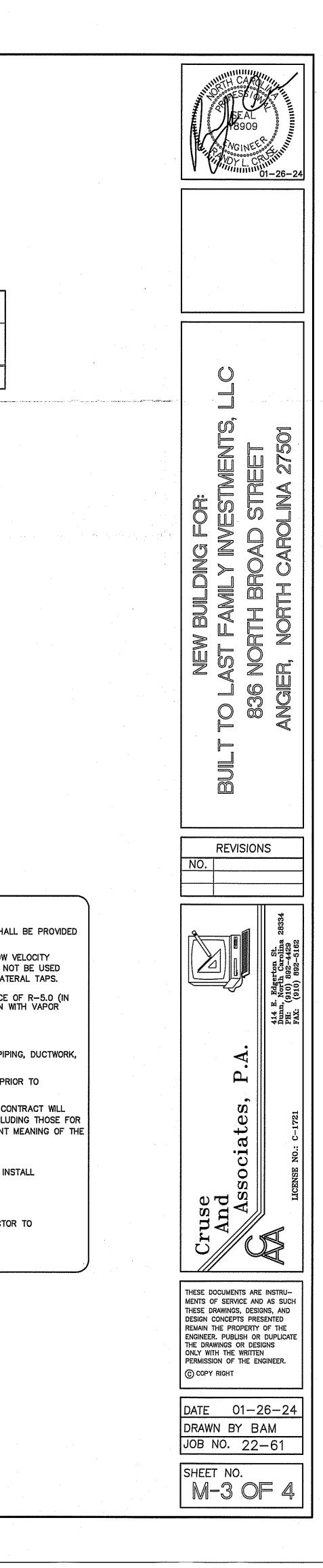
6. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO

7. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE AND INTENT MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE THE ENGINEER SCALED DRAWINGS OF ALL MECHANICAL DRAWINGS. 8. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.

9. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL

10. MECHANICAL CONTRACTOR TO FIELD COORDINATE LOCATION OF MECHANICAL SYSTEMS WITH ELECTRICAL AND PLUMBING

1. MECHANICAL WORK INCLUDES DEMOLITION, RELOCATION, IN EXISTING & NEW WORK AS APPLICABLE. MECHANICAL CONTRACTOR TO



METHOD OF COMPLIANCE: PRESCRIPTIVE I ENERGY COST BUDGET THERMAL ZONE 4A - HARNETT COUNTY, NC

# EXTERIOR DESIGN CONDITIONS

WINTER DRY BULB 16 DEG. F. SUMMER DRY BULB 93 DEG. F.

# INTERIOR DESIGN CONDITIONS

WINTER DRY BULB 65 DEG. F. SUMMER DRY BULB 80 DEG. F.

# RELATIVE HUMIDITY 55%

BUILDING HEATING LOAD 24,852 MBH

# **BUILDING COOLING LOAD** 4 TONS(OFFICE ONLY)

MECHANICAL SPACE CONDITIONING SYSTEM

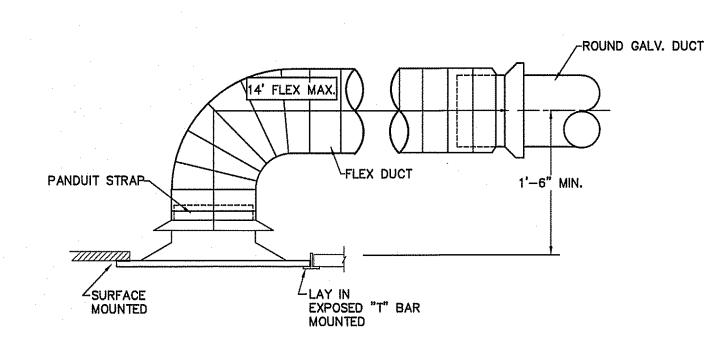
UNITARY ---- COOLING --- 15.20 SEER HEATING - 8.5 HSPF

BOILER ---- NOT APPLICABLE IN THIS PROJECT CHILLER-NOT APPLICABLE IN THIS PROJECT

## LIST EQUIPMENT EFFICIENCIES

# EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

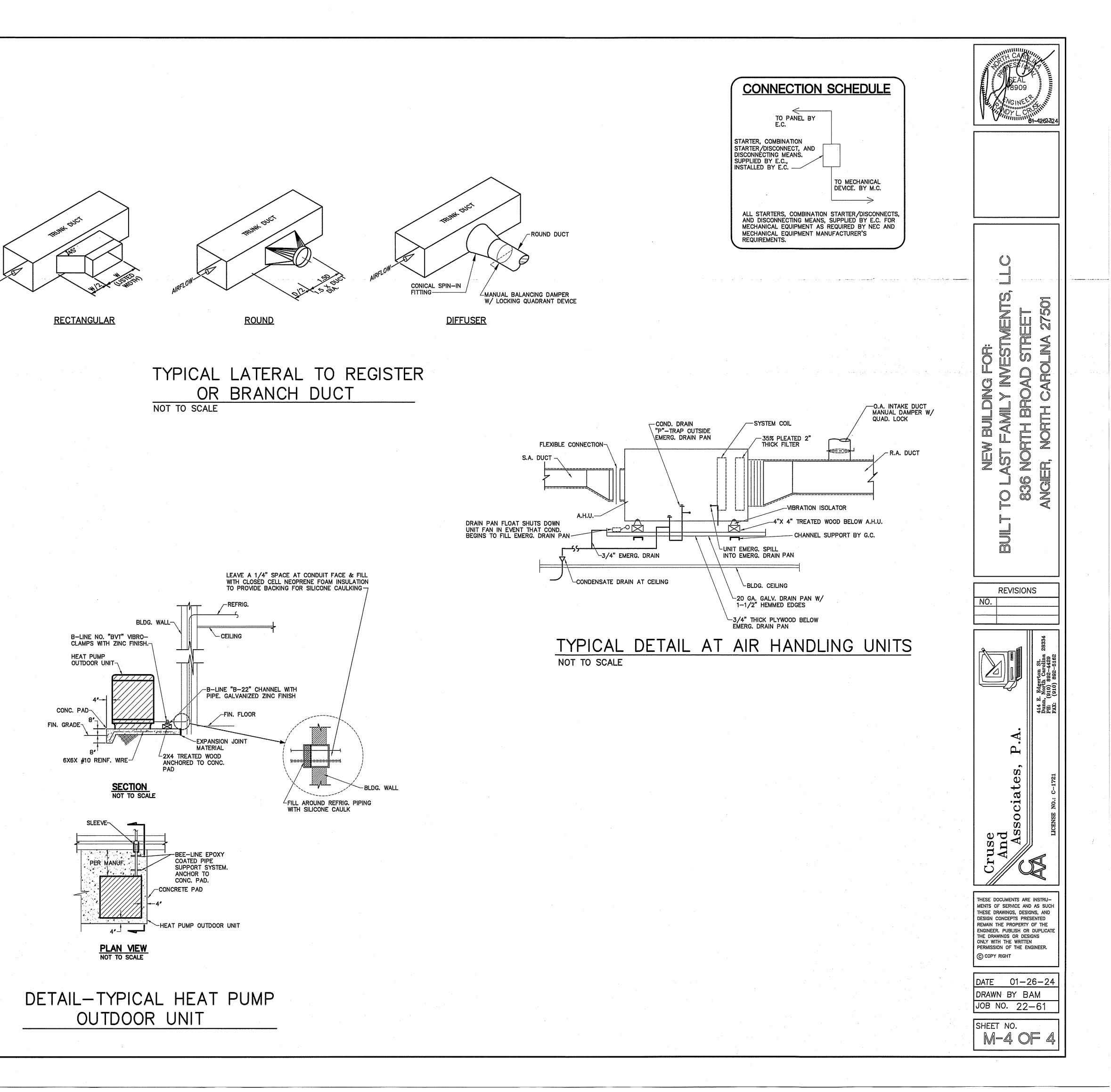
MOTORS USED ON THIS PROJECT ARE INCLUDED IN THE EFFICIENCY RATING OF THE UNIT. SEE PLANS FOR EFFICIENCIES.





- and BRANCH DUCT P.A.F.OM S. S. C. C. M. MANUAL BALANCING QUADRANT LOCKING DEVICE MANUAL VOLUME\_\_\_\_\_ DAMPER AS REQUIRED.

# BRANCH DUCT TAKE-OFF DETAIL NOT TO SCALE

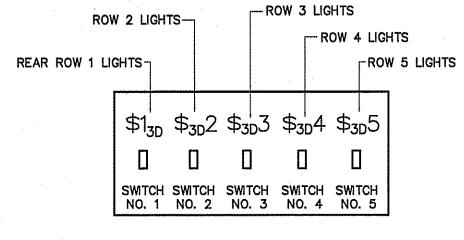


			LIGHT FIXTURE SCHEDULE			-	
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
A	SURFACE MOUNTED 2X4 LED FLAT PANEL	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM	LED		42.0	INCLUDE WSX D DIMMING OCCUPANCY WALL SWITCH
В	SURFACE MOUNTED 2X4 LED FLAT PANEL	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM	LED		32.0	INCLUDE WSX D DIMMING OCCUPANCY WALL SWITCH
С	8' LED STRIPLIGHT	LITHONIA	TZL1D L96 14000LM FST MVOLT 50K 90CRI WH	LED		121.0	INCLUDE HC36 HANGER CHAIN ON TIMECLOCK
D	KEYLESS FIXTURE WITH WIREGUARD AND LED BULB	_		LED A19		13	WITH WIRE GUARD
WP	OUTDOOR LED WALL LIGHT	LSI	TWR1 LED 3 50K MVOLT	LED	LED	58.4	MOUNTED @ 11' WITH CUTOFF GUARE
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	SURE-LITES	CC8MRT2142SM				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	SURE-LITES					
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	SURE-LITES	12T-12-WWH OR 12T-12-DWWH OR EQUAL				n de de de la companya de la company

A5

**H**ĒM

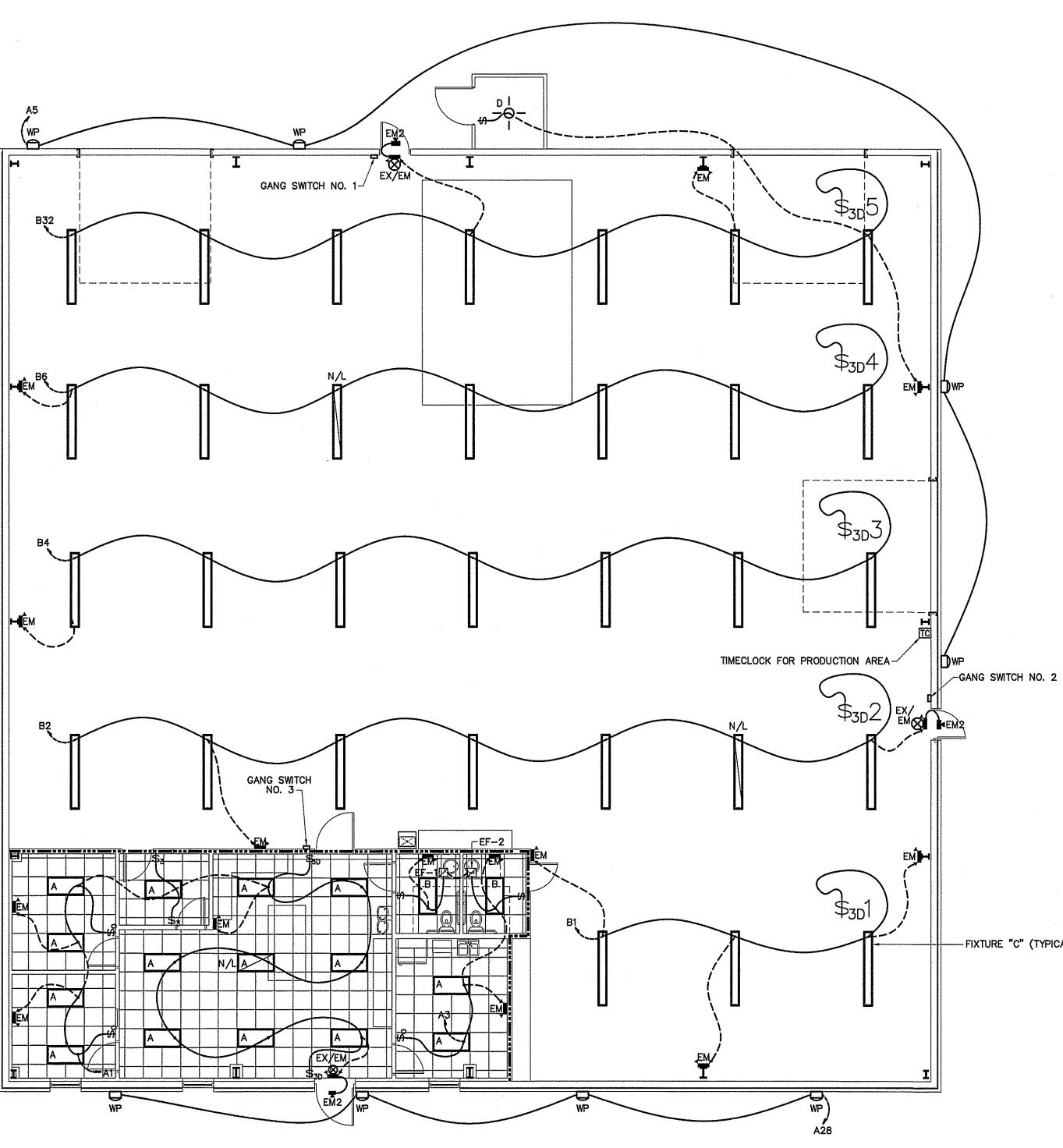
FIXTURES SELECTED BY OWNER AND PURCHASED BY CONTRACTOR \* BEFORE PURCHASING, VERIFY EXTERIOR FIXTURES MEET ZONING ORDINANCE



DETAIL-GANG SWITCH NO. 1, 2 & 3 NOT TO SCALE

						·	) FF		F							
	·		vo	LTS	120	ASCHEDULE: MA 0/240AMPS: <u>200</u>	NU	F٨	\C` י	TURER: <u>SQ. D</u> NO. OF SP/ "NQOD" MOUNTING:	FL	USH				
						IE: <u>NEMA 1</u> Ø: <u>3</u> o-□ Top Feed>⊠ Bottom Feed>⊡	(	COF		SHORT CIRCUIT RATING: R BUS 🖄 GROUND BAR KITI 🖄 NEU	221 ITRAL	K BAR K				
L1	L2	L3	CIRCUIT	POLES	TRIP	ASSIGNMENT		[ <sup></sup>	SE M	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2	L3
4.6	*	*	1	1	20	OFFICE/SHOWROOM LIGHTING	0			SPARE	20	1	2	Х	*	*
*	1.9	*	3	1	20	BREAKROOM/RESTROOM LTS.		0		SPARE	20	1	•4	*	X	*
*	*	2.4	5	1	20	WALLPACKS			0	SPARE	20	1	6	*	*	Х
6.0	*	*	7	1	20	OFFICE #2 RECEPTACLES	0			SHOWROOM RECEPTACLES	20	1	8	3.0	*	*
¥	6.0	¥	9	1	20	OFFICE #1 RECEPTACLES		0		SHOWROOM RECEPTACLES	20	1	10	*	4.5	*
*	*	6.0	11	1	20	OFFICE #3 RECEPTACLES			0	DISPLAY CASE RECEPTACLES	20	1	12	*	*	3.0
1.5	*	*	13	1	20	BREAKROOM COUNTER REC.	0			DRINKING FOUNTAIN	20	1	14	5.6	*	*
*	4.5	*	15	1	20	BREAKROOM RECEPTACLES		0		REFRIGERATOR	20	1	16	*	8.0	*
*	*	X	17	1	20	SPARE			0	MICROWAVE	20	1	18	*	*	10.0
3.0	*	*	19	2	20	HVAC CONV. RECEPTACLE	0			HEAT PUMP UNIT # 1	40	2	20	19.4	*	*
*	18.8	*	21	2	30	WATER HEATER		0					22	*	19.4	*
*	*	18.8	23						0	AIR HANDLING UNIT # 1	50	2	24	*	×	32.0
X	×	*	25	1	20	SPARE	0						26	32.0	*	*
¥	X	×	27	1	20	SPARE		0		WALLPACKS	20	1	28	*	2.0	*
*	*	<b>X</b> -	29	1	20	SPARE			0	SPARE	20	1	30	*	*	X
X	*	*	31	1	20	SPARE	0			SPARE	20	1	32	X	*	*
*	X	*	33	1	20	SPARE		0		SPARE	20	1	34	*	X	*
*	*	Х	35	1	20	SPARE			0	SPARE	20	1	36	*	*	X
X	*	*	37	1	20	SPARE	0			SPARE	20	1	38	Х	*	*
*	X	¥	39	1	20	SPARE		0		SPARE	20	1	40	*	X	*
*	*	X	41	1	20	SPARE			0	SPARE	20	1	42	*	*	X
			_	_		L2	0 11 11	65	5.1	Α						

	LIGHTING	g data for	N.C. ENER	gy code	
AREA USE	AREA FT 2	WATTS PER FT <sup>2</sup> ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
WORKSHOP	8,720	1.3	11,336	2,904	8,432
OFFICE	1,405	1.3	1,827	694	1,133
TOTAL	10,125		13,163	3,598	9,565



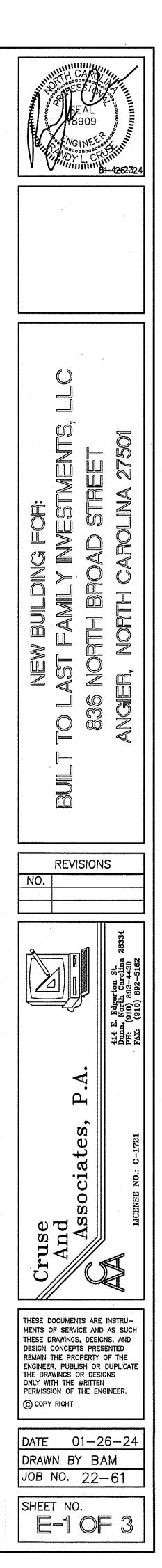
# ELECTRICAL LIGHTING PLAN

•

ELEC	CTRICAL LEGEND
MARK	DESCRIPTION
∯ wp	'GFI' DUPLEX WITH WEATHERPROOF COVER
∯ GFI	GROUND FAULT INTERUPTING RECEPTACLE
d IG	208V OR 240 V RECEPTACLE
Ū	JUNCTION BOX
	FUSED DISCONNECT SWITCH
~	SWITCHED BRANCH CIRCUIT
×2	UNSWITCHED BRANCH CIRCUIT
Y D	120/208 VOLT CIRCUIT
ф	CEILING MOUNTED DUPLEX RECEPTACLE
\$-0/0	LIGHT FIXTURE (WALL/CEIL.)
	FLUORESCENT FIXTURE
	UNSWITCHED FLUOR. FIXT. WITH BATTERY STANDBY (SECURITY/ EMERGENCY LT.)
8	'EXIT' LIGHT FIXTURE, TYPE 'EX'
Ļ	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$	SINGLE-POLE SWITCH
\$ <sub>0</sub>	SINGLE-POLE SWITCH W/ OCCUPANCY SENSOR
\$_3(4)	3-WAY SWITCH (4-WAY SWITCH)
ф	DUPLEX RECEPTACLE
ф	CEILING MOUNTED RECEPTACLE
<b></b>	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)
#	QUAD RECEPTACLE
◀	PHONE
٩.	INTERNET/DATA

**NOTE:** FIXTURE "C" ASSUMED MOUNTING HEIGHT = 15'-0" COORDINATE MOUNTING HEIGHT WITH OVERHEAD DOOR HEIGHT.

**NOTE:** ADDITIONAL LIGHT FIXTURES COULD BE REQUIRED AT SPECIFIC LOCATIONS FOR TASK LIGHTING. COORDINATE THIS REQUIREMENT WITH OWNER BEFORE BEGINNING CONSTRUCTION.



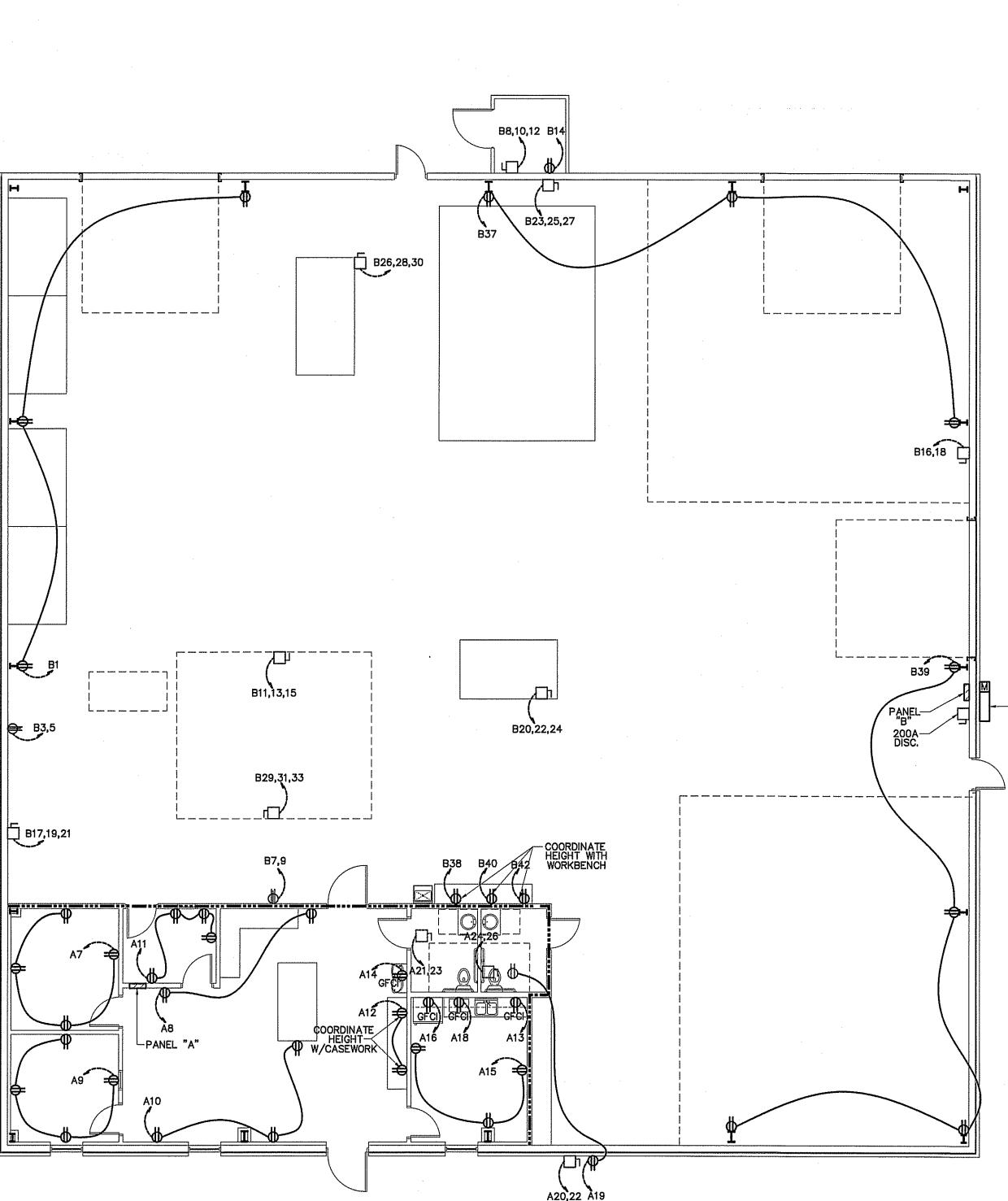
		1					SHC	<u>P</u>								
			VO	LTS: CLC	<u>120</u> SUR	SCHEDULE:         M           /240         AMPS: 400           E:         NEMA 1         Ø: 3           □□         TOP FEED:⊠ BOTTOM FEED:	ΤY	PE	• •	HORT CIRCUIT RATING:	SUR 22	FAC <	E			
L1	L2	L3	CIRCUIT	POLES	TRIP	ASSIGNMENT		Γ	SE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2	LJ
3.0	*	*	1	1	20	ROW #1 SHOP LIGHTING	0	Γ		ROW #2 SHOP LIGHTING	20	1	2	7.1	*	*
*	6.0	*	3	2	20	BLUM		0		ROW #3 SHOP LIGHTING	20	1	4	*	7.1	*
*	*	6.0	5						0	ROW #4 SHOP LIGHTING	20	1	6	*	*	7.
9.0	¥	*	7	2	20	AIR COMPRESSOR	0			ELGI AIR COMPRESSOR	70	3	8	42.0	*	*
¥	9.0	*	9					0					10	*	42.0	*
*	*	29.0	11	3	40	SI400 NOVA TABLE SAW			0				12	*	*	42.
29.0	*	*	13				0			AIR COMPRESSOR DRYER	20	1	14	10.0	*	*
×	29.0	*	15					0		DOOR HINGER	20	2	16	*	9.0	*
*	*	26.3	17	3	30	DUST COLLECTOR			0				18	*	*	9.0
26.3	*	*	19				0			MAX 340 (EDGE BANDER)	30	3	20	14.0	*	*
*	26.3	*	21					0					22	. *	14.0	*
*	*	52.0	23	3	70	PAINT BOOTH			0	<u>_</u>			24	*	*	14.
52.0	*	*	25				0	<u> </u>		WOOD BORING MACHINE	20	3	26	8.0	*	*
*	52.0	*	27				_	0			_		28	*	8.0	*
*	*	15.2	29	3	30	POWERMATIC 20 INCH SAW	_	<u> </u>	0		_		30	*	¥	8.0
15.2	*	*	31			146.91	0	<u> </u>		ROW #5 SHOP LIGHTING	20	1	32	7.2	*	*
*	15.2	*	33					<u> </u> 0	I	SPARE	20 20	1	34	*	Х	*
*	*	X	35	1	20	SPARE		<u> </u>	0	SPARE		1	36	*	¥	<u> </u>
4.5	*	*	37	1	20	SHOP RECEPTACLES		_	$\square$	WORKBENCH RECEPTACLE		1	38	1.5	*	*
*	6.0	*	39	1	20	SHOP RECEPTACLES		0	11	WORKBENCH RECEPTACLE		1	40	*	1.5	*
*	*	Х	41	1	20	SPARE			0	WORKBENCH RECEPTACLE	20	1	42	· *	¥	1.

L2 = 225.1 A L3 = 210.1 A

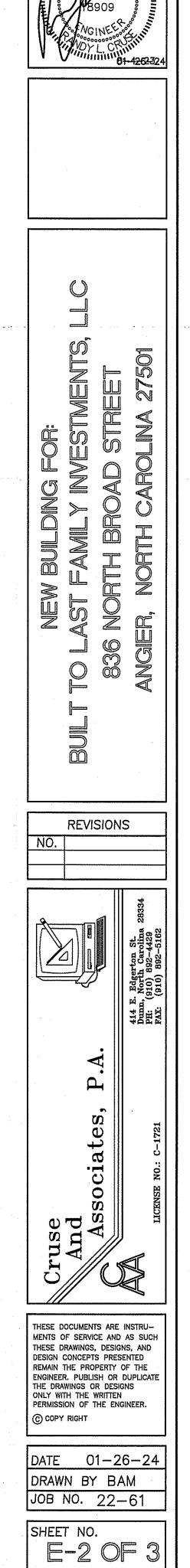
# NOTES:

- 1. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT LOADS & REQUIREMENTS WITH OWNER BEFORE ORDERING MATERIAL & BEFORE BEGINNING CONSTRUCTION.
- 2. ELECTRICAL CONTRACTOR TO VERIFY LOCATION OF ALL EQUIPMENT WITH OWNER BEFORE BEGINNING CONSTRUCTION.
- 3. THE ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NEC 500.
- 4. UPON REVIEW BY OWNER AND ELECTRICAL CONTRACTOR, SHOULD LOCATION OF EQUIPMENT CHANGE FROM LOCATIONS SHOWN ON DRAWING, CONTACT ENGINEER BEFORE BEGINNING CONSTRUCTION.

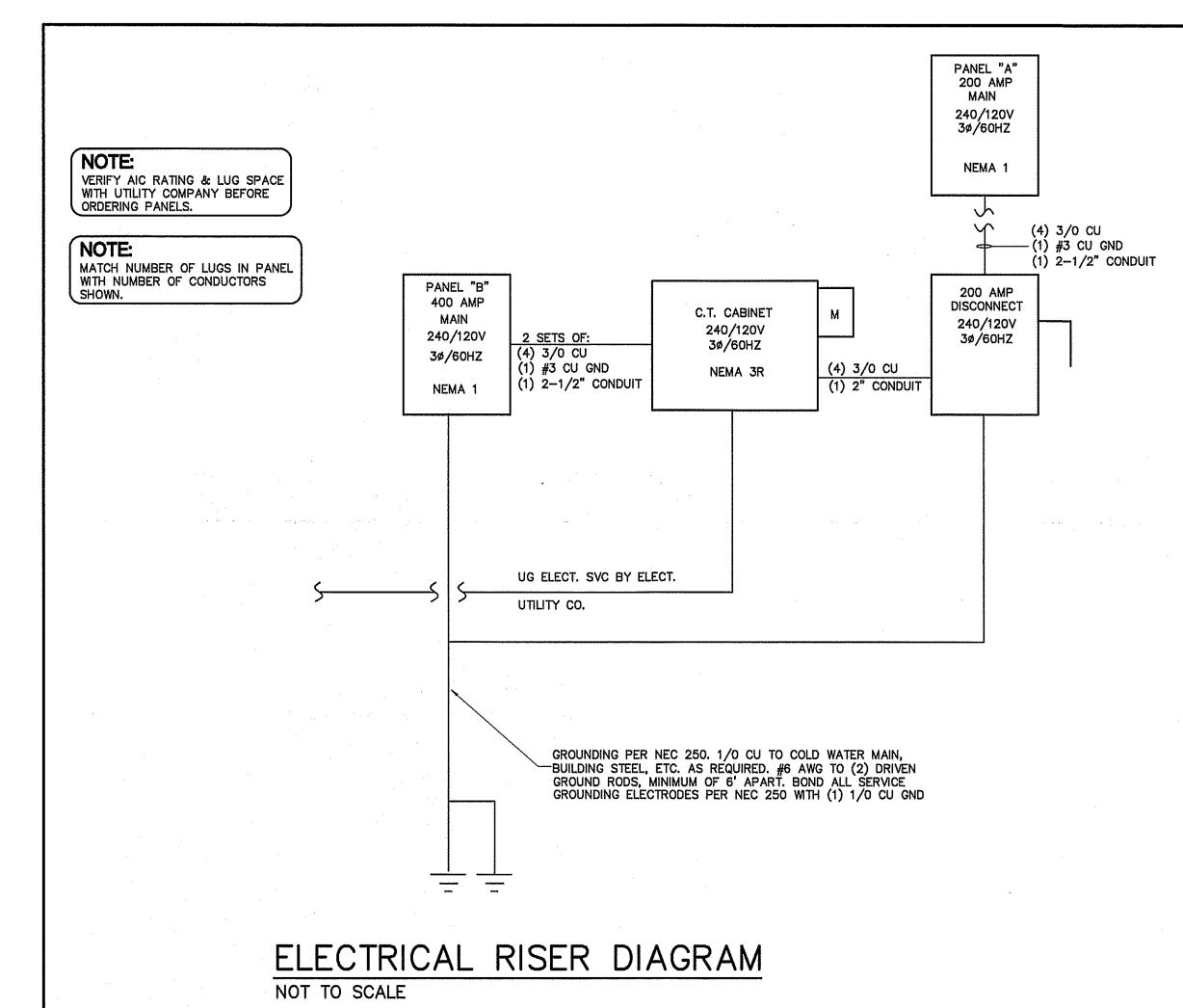
# ELECTRICAL POWER PLAN SCALE: 1/8" = 1'-0"



ELEC	TRICAL LEGEND					
MARK	DESCRIPTION 'GFI' DUPLEX WITH WEATHERPROOF COVER					
∯ w⊳						
GFI	GROUND FAULT INTERUPTING RECEPTACLE					
G IG	208V OR 240 V RECEPTACLE					
L	JUNCTION BOX					
	FUSED DISCONNECT SWITCH					
	SWITCHED BRANCH CIRCUIT					
~~~~	UNSWITCHED BRANCH CIRCUIT					
Y D	120/208 VOLT CIRCUIT					
ф	CEILING MOUNTED DUPLEX RECEPTACLE					
\$-0/0	LIGHT FIXTURE (WALL/CEIL.)					
	FLUORESCENT FIXTURE					
	UNSWITCHED FLUOR. FIXT. WITH BATTERY STANDBY (SECURITY/ EMERGENCY LT.)					
$\otimes$	'EXIT' LIGHT FIXTURE, TYPE 'EX'					
Ļ	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)					
\$	SINGLE-POLE SWITCH					
\$ <sub>0</sub>	SINGLE-POLE SWITCH W/ OCCUPANCY SENSOR					
\$_3(4)	3-WAY SWITCH (4-WAY SWITCH)					
ф	DUPLEX RECEPTACLE					
ġ	CEILING MOUNTED RECEPTACLE					
	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)					
#	QUAD RECEPTACLE					
-	PHONE					
4	INTERNET/DATA					



-C.T. CABINET



ELECTRICAL LOAD CALCULATIONS										
10,125 SQUARE FEET		<u>VA</u>								
NONCONTINUOUS LOADS:										
38 RECEPTACLES © 180 VA EA. 1ST 10000 REMAINDER © 50%	6840	6840 0								
TOTAL		6840								
CONTINUOUS LOADS: GENERAL LIGHTING LOAD VA/SQ. FT.										
1405 SQ. FT. (OFFICE) 1.3 1827 X 1.25	1827	2284								
8720 SQ. FT. 2.2 19184 X 1.25	19184	23980								
AIR HANDLING UNIT		7680								
HEAT PUMP UNITS		4656								
EQUIPMENT:		91727								
25% OF LARGEST MOTOR		5398								
GRAND TOTAL		142565								
343 AMPS @ 120/240V, 3ø,	60HZ									

FEEDER SCHEDULE							
UNIT	FEEDERS	FUSED DISCONNECT	CONDUIT				
AHU—1	(2)#8CU,(1)#10CU GND	60	3/4"				
HP-1	(2)#10CU,(1)#12CU GND	60	3/4"				
WATER HEATER	(2)#10CU,1#10CU GND	30	3/4"				
BLUM	(2)#12CU,1#12CU GND	30	1"				
AIR COMPRESSOR	(2)#10CU,1#10CU GND	30	1-1/4"				
SI400	(3)#8CU,1#8CU GND	60	1-1/4"				
DUST COLLECTOR	(3)#8CU,1#8CU GND	30	1-1/4"				
PAINT BOOTH	(3)#6CU,1#6CU GND	100	1-1/2"				
POWERMATIC	(3)#10CU,1#10CU GND	30	1,"				
ELGI AIR COMP.	(3)#6CU,1#6CU GND	100	1-1/2"				
DOOR HINGER	(2)#12CU,1#12CU GND	30	1"				
MAX 340	(3)#10CU,1#10CU GND	30	1"				
WOOD BORING	(3)#12CU,1#12CU GND	30	1"				

.

ELECTRICAL NOTES (GE

and the second second

1. THE ELECTRICAL INSTALLATION, EQU OF THE NATIONAL ELECTRICAL CODE LOCAL CODES, LAWS, AND ORDINANCE ASSOCIATED WITH THE ELECTRICAL WO

2. THE DRAWINGS GENERALLY INDICAT MAY BE REQUIRED FOR A COMPLETE ACCEPTED PRACTICES SHALL BE INCL 3. ALL EQUIPMENT AND MATERIALS SI

4. ALL PENETRATIONS OF FIRE WALLS

5. THE CONTRACTOR SHALL VERIFY A AND INSTALLING BRANCH CIRCUITS.

6. THE ELECTRICAL CONTRACTOR SHA INTERFERENCES OR CONFLICTS SHALL QUESTION.

7. THE ELECTRICAL CONTRACTOR SHA CONTRACTORS. THE ELECTRICAL CON DISCONNECTS, OR OVERCURRENT PRO
8. RACEWAYS ARE SHOWN SCHEMATIC PARALLEL WITH BUILDING LINES. THE

9. ALL RACEWAYS, EQUIPMENT, ETC., BLOCK ANY TILE OR FIXTURE ACCESS

10. THE MINIMUM ALLOWABLE SIZE FO A SWITCHLEG SHALL BE DEFINED AS 11. FULL WEIGHT GALVANIZED RIGID S

A. ON THE EXTERIOR OF THE BUILD

B. VERTICAL DROPS WHERE THE CON STRUCTURES,

C. WHERE SUBJECT TO MECHANICAL

12. ALL WIRE AND CABLE SHALL BE

13. THE MINIMUM WRE SIZE SHALL B CONDUCTORS UNLESS OTHERWISE NO

14. ALL METAL RACEWAY SYSTEMS SH METHOD. AN INSULATED COPPER GRO GREEN GROUND CONDUCTOR SHALL B 15. THE ELECTRICAL CONTRACTOR SHA TO PURCHASE AND INSTALLATION OF RESIZED ACCORDINGLY.

16. LIGHT FIXTURES FOR INSTALLATION MANNER TO PREVENT FIXTURES FROM FIXTURES.

17. CONNECTIONS TO FIXTURES INSTAIL BE LIFTED OUT OF THE GRID AND MO 18. BREAKERS SUPPLYING HVAC OR R 19. 3/4" CONDUIT IS MINIMUM ALLOW NATIONAL ELECTRIC CODE.

20. ALL CONDUCTORS TO BE INSTALLI THROAT. 21. NOT USED

22. DATA, SECURITY, THEATRICAL, AN CONTRACTOR AS SHOWN ON DRAWING 23. NOT USED

24. NO. 10 AWG CONDUCTORS SHALL 20 AMP BRANCH CIRCUIT WIRING SHA 25. CONDUCTORS SHALL BE CONTINUC BOXES, TROUGHS, OR GUTTERS.

26. MAKE CONDUCTOR LENGTHS FOR 27. INSTALL TELEPHONE OUTLETS WT 28. ALL CONDUIT WITHOUT CONDUCTO

29. THE CONTRACTOR SHALL MAKE A ANY CONFLICTS THAT ARE NOTED WIT 30. THE CONTRACTOR SHALL BE RES

ELECTRIC UTILITY CONNECTION FEES A 31. ELECTRICAL CONNECTIONS TO EQU SYSTEM WITH SHORT LENGTHS OF FLE 32. ALL WIRE TERMINATIONS AND EQU 33. ELECTRICAL CONTRACTOR TO MAI N.E.C. 300.21.

34. WRING TO DISCONNECT SWITCH A DISCONNECT TO THE EQUIPMENT SHAR

		PRESCRIPTIVE	PERFORMANCE		THE SEL	HIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	· · · · · · · · · · · · · · · · · · ·
	REFER TO DRAWINGS FOR RIS			[	A CONTRACTOR	4262324	
	LAMP TYPE REQUIRED IN FIX NUMBER OF LAMPS IN FIXTU BALLASTS TYPE USED IN FIX	RE:					
	NUMBER OF BALLASTS IN FI) TOTAL WATTAGE PER FIXTUR TOTAL INTERIOR WATTAGE SF	Е:					
	TOTAL EXTERIOR WATTAGE S ADDITIONAL PRESCRIPT 506.2.1 MORE EFFICIENT MEC	TIVE COMPLIANCE					·
···	506.2.2 REDUCED LIGHTING F 506.2.3 ENERGY RECOVERY 5 506.2.4 HIGHER EFFICENCY S 506.2.5 ON-SITE SUPPLY OF 506.2.6 AUTOMATIC DAYLIGH	VENTILATION SYSTEMS SERVICE WATER HEATING RENEWABLE ENERGY			T T	201	
					OR: STREE	INA 27	
NERAL)		- and a tributer of the second s					
DUIPMENT, MATERIALS, AND WORKM (NEC), OCCUPATIONAL SAFETY AN ES, AND RULINGS OF THE INSPECT VORK SHALL BE THE RESPONSIBILIT NTE THE WORK TO BE INSTALLED, B INSTALLATION. ALL SUCH ITEMS I	D HEALTH ACT (OSHA), ALL A ION AUTHORITIES HAVING JURI Y OF THE ELECTRICAL CONTRA IUT DO NOT SHOW ALL BENDS,	PPLICABLE FEDERAL, STA SDICTION. ALL FEES, PER CTOR. , BOXES, FITTINGS, AND S	TE, COUNTY, AND MITS, ETC., PECIALTIES WHICH		BULDING F AMILY INV H BROAD		
LUDED IN THE BID. SHALL BE NEW AND LISTED AND LA S SHALL BE SEALED WITH APPROV WIRE AND FUSE/CIRCUIT BREAKER	ABELED BY UNDERWRITERS LAB ED SEALING MATERIALS TO MA	IORATORIES, INC. INTAIN THE FIRE RATING	OF THE WALLS.	F	AST FAM NORTH E	R, NOR	
ALL COORDINATE ALL WORK WITH C L BE REPORTED TO THE PRIME CON					830 L 0 L		
ALL CONNECT BRANCH CIRCUITS TO NTRACTOR SHALL BE RESPONSIBLE OTECTION AHEAD OF SUCH EQUIPME	FOR PROVIDING AND INSTALLI	F EQUIPMENT FURNISHED NG ANY NECESSARY SWIT	BY OTHER CHES,		Ĕ E	A	
CALLY AND MAY BE REROUTED IN EY SHALL BE RUN CONCEALED WIT ABOVE A SUSPENDED CEILING SHA	THE FIELD. THEY SHALL BE II HIN WALLS OR BUILDING STRUC	CTURES WHEREVER POSSIE	BLE.				•
S. OR ANY CONDUIT, IMC, OR EMT SH. THE RUN OF CONDUIT FROM THE S STEEL CONDUIT SHALL BE USED IN DING OR ROOF,	SWITCH OUTLET BOX TO THE F				REVISIONS	S	
NDUIT CANNOT BE ANCHORED TO	WALLS OR OTHER SUPPORT						
COPPER AND HAVE 600 VOLT THH						st. lina 2833 162	
TED. SHALL BE MADE ELECTRICALLY CON ROUNDING CONDUCTOR SHALL BE IN BE CONNECTED TO THE GROUND TE	TINUOUS. THE RACEWAY SYST	TEM SHALL NOT BE THE S	OLE GROUNDING			Edgerton S North Caro 910) 892-44 (910) 892-5	
HALL COORDINATE FUSE AND DISCO BRANCH CIRCUIT EQUIPMENT. IF	NNECT SWITCH SIZES WITH THI	E MECHANICAL EQUIPMENT ROM DESIGN SIZES, CIRCU	SUPPLIER PRIOR IITS SHALL BE			414 E. Dunn, PH: () FAX:	
ON IN A SUSPENDED CEILING SHALL M FALLING. IN ADDITION, 16 GAGE	BE SECURELY FASTENED TO WIRE HANGERS SHALL BE FAS	THE CEILING SUSPENSION STENED TO THE FOUR COP	SYSTEM IN A RNERS OF THE		•.A.		
ALLED IN SUSPENDED CEILINGS SHA OVED TO AN ADJACENT GRID LOCA REFRIGERATION EQUIPMENT SHALL	TION.	ETAL CONDUIT TO ALLOW	THE FIXTURE TO		s, P		
WABLE SIZE EXCEPT AS INDICATED	IN #10. CONDUIT FILL NOT TO				iate	NO.: C-1721	
LED IN CONDUIT (EXCEPT WHERE R	UMEX IS INSTALLED). EMI FITI	INGS TO BE COMPRESSION	TYPE, INSULATED		ssoc	LICENSE N	
ND VIDEO SYSTEMS TO BE PROVIDE GS.					use And As	E	
BE USED FOR 20 AMP BRANCH C ALL BE NO. 10 AWG THROUGHOUT I IOUS FROM OUTLET TO OUTLET. S	IF THE CIRCUIT IS LONGER THA	AN 100 FEET TOTAL LENG	тн.		J U		
R PARALLEL CIRCUITS EQUAL. TH 3/4" EMPTY CONDUIT AND PULI ORS SHALL HAVE NYLON PULLCORD A COMPLETE REVIEW OF THE PLANS TH THE ENGINEER.	DS INSTALLED. 5, SCHEDULES, AND DETAILS P	RIOR TO INSTALLATION, A	ND REVIEW		THESE DOCUMENTS ARE MENTS OF SERVICE AND THESE DRAWINGS, DESIGN DESIGN CONCEPTS PRESE REMAIN THE PROPERTY C ENGINEER. PUBLISH OR I THE DRAWINGS OR DESIG ONLY WITH THE WRITTEN BERMISSION OF THE ENC	AS SUCH IS, AND ENTED DF THE DUPLICATE INS	
SPONSIBLE FOR ALL FEES FOR PERI AND LINE EXTENSION FEES. UIPMENT SUBJECT TO VIBRATION W EXIBLE "LIQUID-TITE" CONDUIT. UIPMENT TO BE RATED FOR 75° C INTAIN 2' OF SEPARATION ON RECE	HICH DEVELOPS OBJECTIONABL MINIMUM.	E NOISES SHALL BE MAD	E FROM THE CONDUIT		DATE 01-20	6-24	
AND DISCONNECT SWITCH SHALL BE		AL CONTRACTOR. WRING	FROM THE		JOB NO. 22-		
					sheet no. E-3 Of	= 3	. *