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MOST RESTRICTIVE USE ALLOWABLE HEIGHT (TABLE 503) ype of Construction Type 2-B Building Height in Feet H= 55 ft Building Height in Stories s= 2 **BUILDING DATA** THIS SECTION REQUIRED FOR ALL PROJECTS Construction Type: 🗌 I-A □I-B 🗌 IV-HT □V-A Mixed construction: No Sprinklers: ● No □ Yes □ NFPA 13 Partially Sprinklered ● No □ Yes Class: 🗆 I Standpipes: **Fire District:** \bigcirc No \square Yes (Appendix D) Building Height: <u>17'-0"</u> Feet <u>1</u> Story Basement: No Ves Mezzanine: No Yes High Rise: No 🗌 Yes Life Safety Plan Shee **Gross Building Area:** FLOOR EXISTING (SQ FT) Basement 13,929sf Ground Floor Mezzanine 2nd Floor 3rd Floor <u>4th Floor</u> 5th Floor Porch 13,929sf Total

ALLOWABLE HEIGHT

Area of Project Tenant/Alteration/Renovation: 2204 sf Area of Construction: 2204 sf

FIRE PROTECTION REQUIREMENTS THIS SECTION REQUIRED FOR ALL PROJECTS

Life Safety Plan Sheet #, if Provided ______

	FIRE	F	RATING
BUILDING ELEMENT	SEPARATION DISTANCE (FEET)	REQ'D*	PROVIDED (W/HR* REDUCTION
Bearing Walls - Exter	ior		
NORTH		n/a	
EAST			
WEST			
SOUTH			
Interior Bearing Walls		n/a	
Nonbearing Walls - E	xterior		
NORTH	>30'	n/a	
EAST	>30'	n/a	
WEST	>30'	n/a	
SOUTH	>30'	n/a	
Interior Nonbearing Wa	alls	n/a	
Structural frame, includ girders, trusses	ding columns,	0	
Floor construction, incl beams and joists. List	uding supporting construction type.	n/a	
Floor Ceiling Assembly	1	n/a	
Columns Supporting F	loors	n/a	
Roof construction, include beams and joints **	uding supporting	0	
Roof Ceiling Assembly	,	0	
Columns Supporting R	loof	0	
Shafts - Exit Enclosure	S	n/a	
Shafts - Other		n/a	
Shafts - Other		n/a	
Shafts - Other		n/a	
Corridor Separation		0	
Occupancy Separation	1	0	
Party/Fire Wall Separa	tion	n/a	
Incidental Use Separat	lion	n/a	
Dwelling/Sleeping Unit	Separation	n/a	
Smoke Barrier Separat	tion	n/a	
		4 1	4.1

PERCENTAGE OF WALL OPENING CALCULATIONS THIS SECTION FOR ADDITION, NEW AND CHANGE OF USE Allowable openings per Table 705.8

Existing	
LAND Fr	• •
No Chang	2

ALL LEGENDS	original she
S SECTION REQUIRED FOR ALL	PROJECTS
ECK IF THE FOLLOWING	ARE PRESENT AND INDIC

□Shaft Enclosure 708 Smoke Barriers 710

LIFE SAFETY SYSTEM REQUIREMENTS THIS SECTION REQUIRED FOR ALL PROJECTS

Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Panic Hardware:	□ _{No} □ _{No} □ _{No} □ _{No}
--	--

EXIT REQUIREMENTS Number and arrangement of exits

THIS SECTION REQU	IRED FOR ALL PR	OJECTS				
	MINIMUM NUM	IBER OF EXITS	TRAVEL I	DISTANCE	ARRANGEMENT MEANS OF EGRESS 1,3	
			ALLOWABLE	ACTUAL TRAVEL	(SECTION	N 1015.2)
DESIGNATION	REQUIRED	SHOWN ON PLANS	TRAVEL DISTANCE (TABLE 1016.1)	DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
suite 100	1	2	200'	98′	39'-6"	66'-4"

Corridor dead ends (Section 1018.4)

2 Single exits (Section 1015.1; Section 1021.2) 3 Common Path of Egress Travel (Section 1014.3)

INCREASE FOI SPRINKLERS	2	SHOWN ON PLANS	CODE REFERENCE
		Туре 2-В	Table 601
l+20 ft= n∕a	ft	н = 17′	Table 503
S +1 = n/a		s = 1	Table 503
	I		
□II-A □V-B □Yes	●II-B Types:	□III-A	□III-B
☐ NFPA 1 sial Suppress ☐ II Flood Haz	3R sion □III zard Area:	□Wet ●No □Ye	Dry s
eet # (if prov	vided):		
NEW	V (SQ FT)	SUB-TOT	AL
0	sf	13,929sf	:
	-		
0	sf	13,929sf	:

DETAIL # DESIGN # DESIGN # FOR DESIGN # RATED AND FOR RATED FOR RATED SHEET # ASSEMBLY PENETRATION JOINTS U425 T2 |

CATE BY A WALL LEGEND ON ALL PLANS ☐ Fire Barriers 707 ☐ Smoke Partitions 711

■Yes • Yes • Yes \Box_{Yes} \Box_{Yes}

Occupant Load and Exit Width

THIS SECTION REQUIRED FOR ALL PROJECTS										
	(a)	(b)	(a / b)	(0	(c)		EXIT WIDTH (in) 2,3,4,5			
USE GROUP AND/OR SPACE DESIGNATION	AREA1 SQ.FT.	AREA PER OCCUPANT	NUMBER OF	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)		REQUIRED WIDTH (SECTION 1005.1) (a / b) x c		ACTUAL WIDTH SHOWN ON PLANS		
		LUAD	OCCUPANTS	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL	
Suite 100	2204	100	23	.3	.2	n/a	4.6"	n/a	34"	
total # of occupants			23							

1 See Table 1004.1.1 to determine whether net or gross area is applicable. 2 Minimum stairway width (Section 1009.1); min. corridor width (Section 1017.2); min. door width (Section 1008.1.1)

3 Minimum width of exit passageway (Section 1021.2) 4 The loss of 1 means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1)

5 Assembly occupancies (Section 1025)

ASSEMBLY OCCUPANCY INFORMATION

THIS SECTION FOR	R ASSEMBLY USE AREA(S	5)			
bpace	Area - SF	Occupant	Occupant	Exit	Exit
Jescription	Loau	Factor	Load	widui	Qualitity
			able		
	- <u> </u>	Not APP"			
TOTAL	·				

TOT

Spa

Des

PLUMBING FIXTURE REQUIREMENTS HIS SECTION REQUIRED FOR ALL PROJECTS

	WATERCLOSETS			LAVATORIES		SHOWERS/	DRINKING FOUNTAINS	
OCCOPANCY	MALE	FEMALE	URINALS	MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
Suite 100 – B use group	1-unisex		n/a	1–ur	nisex	n/a	n/a	n/a
Total Required	1-unisex			1-unisex			0	0
Total Provided	1-unisex			1-unisex			0	0

BUILDING DRAIN SIZE	NUMBER OF BUILDING DRAINS	TOTAL FIXTURE UNIT LOAD	WATER SERVICE SIZE	NUMBER OF WATER SERVICES	TOTAL FIXTURE UNIT LOAD	NOTES Existing No Change from
4″	1	60	1-1/2"	1	69.2	inal Shell I
						origina

ACCESSIBLE PARKING

	TOTAL # OF PA	RKING SPACES	# OF ACCESSIBLE	τοται #	
LOT OR PARKING AREA	REQUIRED	PROVIDED	REGULAR W/ 5' ACCESS AISLE	VAN SPACES W/ 8' ACCESS AISLE	ACCESSIBLE PROVIDED
	E	XIS. fro	m .		
	NO C	hange	ermit		
	iaina	I Sherr .			
TOTAL	origin				

SPECIAL APPROVALS (DESCRIBE SPECIAL APPROVALS FROM LOCAL JURISDICTIONS, COUNTY OR STATE DEPARTMENT OF HEALTH, NC DEPARTMENT OF INSURANCE,

INTERNATIONAL CODE COUNCIL, ETC.)

ENERGY SUMMARY

THIS SECTION FOR NEW. ADDITIONS. CHANGE OF USE. AND INTERIOR COMPLETION Existing No Change from original Shell Permit related to the fenestration and the envelope. See Electrical and Mechanical drawings for the Energy Code Compliance Statement

SITE LOCATION





STRUCTURAL DESIGN LOADS

Fire-resistance Ratings - ANSI/UL 263 See General Information for Fire-resistance Ratings ANSI/UL 263 Design No. U425 May 07, 2013 (For Exterior Walls, Ratings Applicable For Exposure To Fire On Interior Face Only (See Items 4 and 5) Bearing Wall Rating - 45 Min, 1, 1-1/2 or 2 HR. (See Items 2 and 4)

BXIIV7

bare metal thickness) corrosion protected cold formed steel studs

Interior Walls Rating 45 min

*Ratings applicable Classified fire resis substituted on the Exterior Walls

1 hr 1-1/2 hr 2 hr

Rating of Board In. Each Layers 45 min 1 hr 1-1/2 hr 2 hr

CKNX.R14196

No Change to the existing structural system and no new exterior openings are being added

Load Restricted for Canadian Applications - See Guide





HORIZONTAL SECTION 1. Steel Floor and Ceiling Tracks - (Not Shown) - Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033

in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C. 2. Steel Studs — Min 3-1/2 in. wide. No. 20 MSG (0.0329 in., min

designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections

designed in accordance with the AISI specifications. 3. Lateral Support Members — (Not shown) — Where required for lateral support of studs, support may be provided by means of steel

straps, channels or other similar means as specified in the design of a particular steel stud wall system.
4. Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Gypsum board bearing the UL Classification Marking as to Fire Resistance. Applied vertically with joints between layers staggered. Outer layer of 3 layer construction may be applied horizontally unless specified below. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

alls			
ng	Wallboard Protection Both Sides of Wall - No. of Layers & Thkns of Board In. Each Layers		% of Design
*1 la <u>;</u> *2 la <u>;</u>	*1 layer, 1/2 in. thick yer, 5/8 in. thick *2 layers, 1/2 in. thick yers, 5/8 in. thick or *3 layers, 1/2 in. thick *2 layers 3/4 in. thick	100 80	100 100 100
pplicabl fire resist on the o	e to assemblies serving as ex stive gypsum sheathing type exterior face.	terior walls wallboard is	where
alls			
of Bo	Wallboard Protection on Interior Side of Wall - No. of Layers & Thkns oard In. Each Layers	Desig	% of 3n Load

45 min	1 layer, 5/8 in. thick		10
1 hr	2 layers, 1/2 in. thick	100	
1-1/2 hr	2 layers, 5/8 in. thick		10
2 hr	3 layers, 1/2 in. thick	100	
	2 layers, 3/4 in. thick		10
ACADIA CKNX.R2 AMERICA	DRYWALL SUPPLIES LTD (View 5370 AN GYPSUM CO (View Classificati	Classificati	on) -

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374 CERTAINTEED GYPSUM CANADA INC (View Classification) — CKNX.R15187 CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751 GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

CKNX.R18482 DADMASTER SYSTEMS INC (View Classification) -CKNX.R11809 NATIONAL GYPSUM CO (View Classification) — CKNX.R3501 PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094 PANEL REY S A (View Classification) — CKNX.R21796 SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262 TEMPLE-INLAND (View Classification) — CKNX R6937 HAI GYPSUM PRODUCTS PCL (View Classification) —

LAFARGE NORTH AMERICA INC (View Classification) ---

CKNX.R27517 IITED STATES GYPSUM CO (View Classification) ----CKNX.R1319 USG MEXICO S A DE C V (View Classification) -CKNX.R16089 4A. Gypsum Board — Nom. 3/4 in. gypsum board applied

vertically with joints between layers staggered. The thickness and number of layers and percent of design load for the 2 hr ratings are shown in the table above. ACADIA DRYWALL SUPPLIES LTD — Type X CGC INC — Types AR, IP-AR, IP-X3, or ULTRACODE UNITED STATES GYPSUM CO — Types AR, IP-AR, IP-X3, or ULTRACODE

SG MEXICO S A DE C V — Types AR, IP-AR, IP-X3, or ULTRACODE 4B. Gypsum Board* — As an alternate to Item 4 - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers

on interior walls (multilayer systems) staggered a min of 12 in. TEMPLE-INLAND — GreenGlass Type NATIONAL GYPSUM CO — Type FSW-6. 4C. Gypsum Board* — (As an alternate to Items 4 and 4A) - 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 6. CERTAINTEED GYPSUM INC — Type SilentEX NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum

TEMPLE-INLAND — Type X ComfortGuard Sound Deadening Gypsum Board. 4D. Wall and Partition Facings and Accessories* - (As an

alternate to Items 4 through 4B) - Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. SERIOUS ENERGY INC — Types QuietRock ES, QuietRock 527. Gypsum Sheathing — For exterior walls, 1/2 or 5/8 in. thick

Classified or unclassified exterior gypsum sheathing applied ertically and attached to studs and runner tracks with 1 in. long Type S-12 bugle head screws spaced 12 in. OC. along studs and tracks. One of the following exterior facings are to be applied over the gypsum sheathing.

a. Siding, Brick, or Stucco — Aluminum siding, steel siding, brick veneer, or stucco attached to studs over gypsum sheathing and meeting the requirements of local code agencies. When a min 3-3/4 in. thick brick veneer facing is used, the Exterior Wall Rating is applicable with exposure on either face. Brick veneer wall attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick. When a min 3-3/4 in. thick brick veneer facing is used, Foamed Plastic (Item 10) may be used.

. Cementitious Backer Units* — 1/2 or 5/8 in. thick, square edge boards, attached to steel studs over gypsum sheathing with 1-5/8 in long, Type S-12, corrosion resistant, wafer head steel screws, spaced 8 in. OC. Studs spaced a max of 16 in. OC. Joints covered with glass fiber mesh tape. UNITED STATES GYPSUM CO — Type DCB

c. Fiber-Cement Siding — Fiber-cement exterior sidings including smooth and patterned panel or lap siding. d. Molded Plastic* — Solid vinyl siding mechanically secured to framing members in accordance with manufacturer's recomm installation details. ALSIDE, DIV OF ASSOCIATED MATERIALS INC

e. Wood Structural Panel or Lap Siding - APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, rooved and lap siding. f. Building Units* - (Not Shown) - 3 in. thick 18 x 24 in. cellular glass blocks, applied to the gypsum sheathing (Item 5) with PC 88

adhesive or fastened with F anchors spaced a maximum 24 in. OC. F anchors fastened to framing members with 1-1/4 in. long #6 drywall screws. PITTSBURGH CORNING CORP — Type FoamGlas

6. Fasteners — (Not Shown) — Screws used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick wallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second layer Type S-12 by 1-5/8 in. long for 1/2 and 5/8 in. thick wallboards and 2-1/4 in. long for 3/4 in. thick wallboard. Third layer Type S-12 by 1-7/8 in. long.

7. Batts and Blankets* — Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance, of a thickness to completely fill stud cavity. See Batts and Blankets* (BZJZ) Category for names of Classified

A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item - (100% Borate Formulation) - Spray applied cellulose naterial. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product. U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry

DRAWING INDEX

application only.

- T1 BUILDING CODE SUMMARY, UL ASSEMBLY & DRAWING INDEX
- T2 EGRESS DIAGRAM AND ACCESSIBILITY NOTES
- A1 FLOOR PLAN & REFLECTED CEILING PLAN
- P1 PLUMBING PLAN AND NOTES
- M1 HVAC PLAN AND DETAILS
- E1.1 LIGHTING PLAN AND DETAILS
- E1.2 POWER PLAN AND DETAILS
- FA1.1 FIRE ALARM PLAN AND DETAILS

7B. Fiber, Sprayed* — As an alternate to Item 7 and 7A — Spray applied cellulose material. The fiber is applied with water to mpletely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry lensity of 4.58 lb/ft3. NU-WOOL CO INC - Cellulose Insulation

C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 7) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3. INTERNATIONAL CELLULOSE CORP — Celbar-RL

8. Joint Tape and Compound - (Not Shown) - Vinvl or casein. dry or premixed joint compound applied in two coats to joints and screw heads of outer layer. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints of outer layer. . Furring Channels — (Optional, not shown, for single or double

layer systems) - Resilient furring channels fabricated from min 25 orrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. ong Type S-12 steel screws. 0. Foamed Plastic* - Not Shown -For use with brick veneer as

outlined in Item 5A - Maximum 2 in. thick rigid polystyrene ation attached to studs with fasteners of sufficient length to penetrate the foam and 3/16 in. into the stud. A minimum 1 in. air space is to be maintained between the outer surface of the foamed plastic and the inner surface of the brick veneer. OWENS CORNING SPECIALTY & FOAM PRODUCTS 0A. Mortar Drop Protection - (Optional, Not shown) - foamed plastic with mortar control device attached, continuous, by drainage

holes at bottom of air space behind brick veneer. OWENS CORNING SPECIALTY & FOAM PRODUCTS — WeepGuard 10B. Foamed Plastic* - Polyisocyanurate foamed plastic nsulation boards, any thickness, Classified in accordance with BRYX and / or CCVW. May be used with any exterior facing

shown under items 5a, 5c, 5d and 5e. THE DOW CHEMICAL CO — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, max ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel and Thermax Heavy Duty Plus (HDP) HUNTER PANELS — Type Xci-Class A

Cementitious Backer Units* - (Optional Item Not Shown -For Use On Face Of 1 Hr Or 2 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide .- Applied vertically or horizontally with vertical joints

entered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing. 2-Hr System - Applied vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, ind a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

*Bearing the UL Classification Mark

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BUILDING CODE DATA



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ACCESSIBILITY SUMMARY

THE FOLLOWING ARE PERFORMANCE SPECIFICATIONS FOR ADHERENCE TO CHAPTERS 10, 11, AND 34 OF THE 2012 NORTH CAROLINA STATE BUILDING CODE (NCSBC) AND ADHERENCE TO SECTION A117.1 OF THE 2009 INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE . REFER TO THE BUILDING ACCESSIBILITY SUMMARY AND DRAWINGS FOR APPLICABILITY OF EACH SECTION AS WELL AS SPECIFIC DESIGN REQUIREMENTS.

2012 NCSBC

CHAPTER 10 - MEANS OF EGRESS

THE REOUIREMENTS OF THIS CODE ARE APPLICABLE FOR THIS PROJECT AND OCCUPANCY CLASSIFICATION. SEE SECTION 1002 FOR DEFINITIONS REGARDING THE MEANS OF EGRESS. REFER TO BUILDING CODE SUMMARY FOR OCCUPANT LOADS. SEE DRAWINGS FOR DESIGN AND DIMENSIONING OF MEANS OF EGRESS. WALKING SURFACES OF THE MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE AND BE SECURELY ATTACHED.

SECTION 1007 - ACCESSIBLE MEANS OF EGRESS SEE DRAWINGS FOR DESIGN & DIMENSIONS IN THESE SPECIFICATIONS. OF ACCESSIBLE MEANS OF EGRESS, INCLUDING ONE OR MORE OF THE FOLLOWING: ACCESSIBLE ROUTES, EXIT STAIRWAYS, ACCESSIBLE ELEVATORS, PLATFORM LIFTS, HORIZONTAL EXITS, RAMPS, AND AREAS OF REFUGE. WHERE ELEVATORS ARE REQUIRED AS A MEANS OF EGRESS, THEY SHALL COMPLY TO SECTION 1007.4. PLATFORM LIFTS MUST COMPLY TO SECTION 1007.5.

1007.6.2 SEPARATION. Each area of refuge shall be separated from the remainder of the story by a smoke barrier complying with Section 710 or a horizontal exit complying with Section 1025. Each area of refuge shall SECTION 1105 - ACCESSIBLE ENTRANCES SEE DRAWINGS FOR LOCA be designed to minimize the intrusion of smoke. EXCEPTION: Areas of refuge located within a vertical exit enclosure.

1007.6.3 TWO-WAY COMMUNICATION. Areas of refuge shall be provided with a two-way communication FOR LOCATIONS AND DESIGN OF PARKING SPACES AND PASSENGER L system complying with Sections 1007.8.1 and 1007.8.2.

1007.8.1 SYSTEM REQUIREMENTS. Two-way communication systems shall provide communication between each required location and the fire command center or central control point location approved by the fire department. Where the central control point is not constantly attended, a two-way communication system shall have a timed automatic telephone dial-out capability to a monitoring location or 911. The two-way communication system shall include both audible and visible signals.

1007.8.2 DIRECTIONS. Directions for the use of the two-way communication system, instructions for summoning assistance via the two-way communication system and written identification of the location shall be posted adjacent to the two-way communication system.

1007.9 SIGNAGE. Signage indicating special accessibility provisions shall be provided as shown: 1. Each door providing access to an area of refuge from an adjacent floor area shall be identified by a sign

- stating: AREA OF REFUGE 2. Each door providing access to an exterior area for assisted rescue shall be identified by a sign
- stating: EXTERIOR AREA FOR ASSISTED RESCUE. Signage shall comply with the ICC A117.1 requirements for visual characters and include the
- International Symbol of Accessibility. Where exit sign illumination is required by Section 1011.2, the signs shall be illuminated. Additionally, tactile signage complying with ICC A117.1 shall be located at each door to an area of refuge and exterior area for assisted rescue in accordance with Section 1011.3.

1007.10 DIRECTIONAL SIGNAGE. Direction signage indicating the location of the other means of egress and which are accessible means of egress shall be provided at the following: 1. At exits serving a required accessible space but not providing an approved accessible means of

- 2. At elevator landings.
- 3. Within areas of refuge.

1007.11 INSTRUCTIONS. In areas of refuge and exterior areas for assisted rescue,

- of the area under emergency conditions shall be posted. The instructions shall include 1. Persons able to use the exit stairway do so as soon as possible, unless they 2. Information on planned availability of assistance in the use of stairs or sup
- operation of elevators and how to summon such assistance. 3. Directions for use of the two-way communications system where provided

SEE DRAWINGS FOR DESIGN OF ANY REQUIRED EXTERIOR AREAS FOR THESE AREAS SHALL HAVE IDENTIFICATION AS REQUIRED FOR AREA COMPLI9ES WITH SECTION 1007.9.

CHAPTER 11 - ACCESSIBILITY

SECTION 1101 - SCOPE AND DESIGN THE REQUIREMENTS OF THIS COL FOR THIS PROJECT AND OCCUPANCY CLASSIFICATION.

SECTION 1102 - DEFINITIONS SEE NCSBC SECTION 1102 & ANSI 117.1.1

SECTION 1103 - SCOPING REQUIREMENTS SEE NCSBC SECTION 1103 ACCESSIBILITY REQUIREMENTS.

SECTION 1104 - ACCESSIBLE ROUTE SEE SITE DRAWINGS FOR DESIGN ACCESSIBILITY. SEE DRAWINGS FOR ALLOCATION OF INTERIOR ACCE

OF ACCESSIBLE ENTRANCES

SECTION 1106 - PARKING AND PASSENGER LOADING FACILITIES SE

SECTION 1107 - DWELLING UNITS AND SLEEPING UNITS THIS SECTION TO THIS PROJECT.

SECTION 1108 - SPECIAL OCCUPANCIES THIS SECTION DOES NOT AP PROJECT.

SECTION 1109 - OTHER FEATURES AND FACILITIES SEE DRAWINGS DESIGN OF ACCESSIBLE PLUMBING FIXTURES, ELEVATORS, LIFTS AND

SECTION 1110 - SIGNAGE

- 1110.1 SIGNS. Required accessible elements shall be identified by the International at the following locations:
- 1. Accessible parking spaces required by Section 1106.1. Location and design comply with the requirements of North Carolina General Statute 20-37.6 and Manual on Uniform Traffic Control Devices.
- 2. Accessible passenger loading zones. 3. Accessible rooms where multiple singe-user toilet or bathing rooms are clu location.
- 4. Accessible entrances where not all entrances are accessible. 5. Accessible check-out aisles where not all aisles are accessible. The sign,
- above the check-out aisle in the same location as the check-out aisle number or type of check-out identification.
- 6. Family or assisted toilet and bathing rooms. 7. Accessible dressing, fitting and locker rooms where not all such rooms are accessible.
- 8. Accessible areas of refuge in accordance with Section 1007.9
- 9. Exterior areas for assisted rescue in accordance



, instructions on the use de all of the following:	1110.2 DIRECTIONAL SIGNAGE. Directional signage indication the route to the nearest like accessible element shall be provided at the following locations. These directional signs shall include the International	E107.3 about, 1
are assisting others.	Symbol of Accessibility:	A117.1
Jeiviseu	 Inaccessible public toilets and bathing facilities 	tempor
h	3 Elevators not serving an accessible rout	E107 4
	4. At each separate-sex toilet and bathing room indicating the location of the nearest family or	1
	assisted-use toilet or bathing room where provided in accordance with Section 1109.2.1.	
R ASSISTED RESCUE.	5. At exits and exit stairways serving a required accessible space, but not providing an	through
OF REFUGE THAT	approved accessible means of egress, signage shall be provided in accordance with Section 1007.10.	
	1110.3 OTHER SIGNS. Signage indicating special accessibility provisions shall be provided as shown:	
	1. Each assembly area required to comply with Section 1108.2.7 shall provide a sign	E108 -
	notifying patrons of the availability of assistive listening systems.	E100
	Exception: Where ticket offices or windows are provided, signs are not required at	E109 -
DE ARE APPLICABLE	each assembly area provided that signs are displayed at each ticket office or window informing patrons of the availability of assistive listening systems.	
	2. At each door to an area of refuge, an exterior area for assisted rescue, an egress stairway, exit	E110 -
06 FOR WORDS USED	passageway and exit discharge, signage shall be provided in accordance with Section 1011.3. 3. At areas of refuge, signage shall be provided in accordance with Sections 1007.11	
	4. At areas for assisted rescue, signage shall be provided in accordance with Section 1007.11.	2009
	5. At two-way communication systems, signage shall be provided in accordance with Section	
FOR EXCEPTIONS TO	1007.8.2.	CHAP
	6. Within exit enclosures, signage shall be provided in accordance with Section 1022.8.	ALTE
N OF SITE	CHAPTER 34 - EXISTING STRUCTURES	SPECI
ESSIBLE ROUTE.		CHAP
TIONS AND DESIGN	3411 - ACCESSIBILITY FOR EXISTING BUILDINGS SEE DRAWINGS FOR INCORPORATION OF ANY REQUIRED COMPLIANCE FOR ACCESSIBILITY.	ARE A
		CHAP
EE SITE DRAWINGS	APPENDIX E - SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS	DESIG
OADING FACILITIES.	F103 - ACCESSIBLE BOUTE SEE DRAWINGS FOR DESIGN AND DIMENSIONS OF ANY RAISED	KNEE SUDE/
	PLATFORMS	SURFA
ON DOES NOT APPLY		SPACE
	E104 - SPECIAL OCCUPANCIES THIS SECTION DOES NOT APPLY TO THIS PROJECT.	REAC
		NOT R
PLY TO THIS	E105 - OTHER FEATURES AND FACILITIES ALL PORTABLE TOILETS AND BATHING	REQU
	ROOMS, LAUNDRY EQUIPMENT, VENDING MACHINES, MAILBOXES, ATM's, AND TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH SECTION E105.	CIRCU
FOR LOCATIONS AND		CHAP
D STORAGE.	E106 - TELEPHONES WHERE TELEPHONES ARE PROVIDED, ACCESSIBLE TELEPHONES SHALL BE PROVIDED ACCORDING TO SECTION E106.	DIMEN RAMP
		BE ST
Symbol of Accessibility	E107 - SIGNAGE	RUNS
an of signage shall	E107.1 SIGNS. Required accessible portable toilets and bathing facilities shall be identified by the	MANE
gn of signage snall	International Symbol of Accessibility.	LAND
150-50 and the NCDOT	E10/.2 DESIGNATIONS. Interior and exterior signs identifying permanent rooms and spaces shall be	SECTI
	tactile. where pictograms are provided as designations of interior rooms and spaces, the pictograms shall have togetile	DOOR
ustered at a single	nave tactine text descriptors. Signs required to provide tactile characters and pictograms shall comply with	CATE
astered at a sillgle	ICC A11/.1. Exceptions:	GATES
	Exceptions: 1. Exterior signs that are not located at the door to the space that some are not required to correct.	WIIH
where provided, shall be	 Exterior signs that are not rocated at the door to the space they serve are not required to comply. Building directories, manus, seat and row designations in assembly group occupant names, building 	$\Delta 17 1$
· · · · · · · · · · · · · · · · · · ·	ω_{1} bunding directories, menus, seat and rew designations in assembly areas, becabally names. Dimump	111/.1

addresses and company names and logos are not required to comply.

3. Signs in parking facilities are not required to comply. 4. Temporary (seven days or less) signs are not required to comply.

5. In detention and correctional facilities, signs not located in public areas are not required to comply.

DIRECTIONAL AND INFORMATIONAL SIGNS. Signs that provide direction to, or information permanent interior spaces of the site and facilities shall contain visual characters complying with ICC

ception: Building directories, personnel names, company or occupant names and logos, menus and rary (seven days or less) signs are not required to comply with ICC A117.1. OTHER SIGNS. Signage indicating special accessibility provisions shall be provided as follows: . At bus stops and terminals, signage must be provided in accordance with Section E108.4. 2. At fixed facilities and stations, signage must be provided in accordance with Sections E109.2.2

h E109.2.2.3. 3. At airports, terminal information systems must be provided in accordance with Section E110.3.

BUS STOPS THIS SECTION DOES NOT APPLY TO THIS PROJECT.

PROJECT.

AIRPORTS THIS SECTION DOES NOT APPLY TO THIS PROJECT.

ICC/ANSI A117.1

TER 1 - APPLICATION AND ADMINISTRATION SEE SECTION 103 FOR COMPLIANCE RNATIVES PROVISION. SEE SECTION 106 FOR DEFINITIONS OF WORDS USED IN THESE FICATIONS.

TER 2 - SCOPING THE REQUIREMENTS OF CHAPTERS 1 THROUGH 9 OF THIS CODE APPLICABLE FOR THIS PROJECT AND OCCUPANCY CLASSIFICATION.

TER 3 - BUILDING BLOCKS SEE DIAGRAMS BELOW AND DRAWINGS FOR **GN/INCORPORATION OF ALL REQUIRED TURNING SPACES, CLEAR FLOOR SPACES,** AND TOE CLEARANCES, PROTRUDING OBJECTS, AND REACH RANGES. ALL FLOOR ACES TO COMPLY WITH SECTION 302. ALL CHANGES IN LEVEL TO COMPLY WITH ON 303. ALL REQUIRED ACCESSIBLE OPERABLE PARTS SHALL HAVE A CLEAR FLOOR E COMPLYING WITH SECTION 305, SHALL BE PLACED WITHIN ONE OR MORE OF THE H RANGES SPECIFIED IN SECTION 308, SHALL BE OPERABLE WITH ONE HAND, SHALL REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL NOT IRE MORE THAN 5.0 POUNDS TO ACTIVATE. ALL PROTRUING OBJECTS ON JLATION PATHS TO COMPLY WITH SECTION 307.

TER 4 - ACCESSIBLE ROUTES SEE DRAWINGS AND DOOR SCHEDULE FOR DESIGN, NSIONS OF ACCESSIBLE ROUTES, WALKING SURFACES, DOORS AND DOORWAYS, PS, ELEVATORS AND LIFTS. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT EEPER THAN 1:20. AND THE CROSS SLOPE OF ALL WALKING SURFACES AND RAMP SHALL NOT BE STEEPER THAN 1:48. FLOOR SURFACES WITHIN REOUIRED EUVERING CLEARANCES AT DOORS AND DOORWAYS AND FLOOR SURFACES AT RAMP DINGS SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH ON 302. DOOR AND DOORWAY THRESHOLDS SHALL COMPLY WITH SECTION 404.2.4. SURFACES, HARDWARE, CLOSERS, SPRING HINGES, OPENING FORCE, AND VISION SHALL COMPLY WITH SECTION 404.2. ALL AUTOMATIC DOORS AND AUTOMATIC ES SHALL COMPLY WITH SECTION 404.3. RAMP EDGE PROTECTION SHALL COMPLY SECTION 405.9.1 OR 405.9.2. ALL CURB RAMPS SHALL COMPLY WITH SECTION 406. ATORS SHALL COMPLY WITH SECTION 407 OR 408, AS APPLICABLE, AS WELL AS ASME LISTED IN SECTION 105.2.5. ELEVATORS SHALL BE PASSENGER ELEVATORS AS CLASSIFIED BY ASME A17.1. ELEVATOR OPERATION SHALL BE AUTOMATIC. PLATFORM LIFTS SHALL COMPLY WITH SECTION 410, AS WELL AS ASME/ANSI A18.1 LISTED IN SECTION 105.2.6. PLATFORM LIFTS SHALL NOT BE ATTENDANT OPERATED AND SHALL PROVIDE UNASSISTED ENTRY AND EXIT FROM THE LIFT.

Earess	Checklist

10VADLE, NUN-METALLIL BAFFLE TU		
AGAINST LUNTALT. THERE SHALL BE NU R ABRASIVE SURFACES UNDER LAVATORIES.	Fire and/or smoke rated wall locations (Chapter 7)	
IRED AT ACCESSIBLE LAVATORY	N/A 🗌 Assumed and real property line locations	
	N/A Exterior wall opening area with respect to distance to assumed property lines (705.8)	
2 ^{31,} 3 ⁴	N/A 🗌 Existing structures within 30' of the proposed building	
IK ACCESSIBILITY REQUIREMENTS	Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)	
	N/A 🗌 2012 NC Administrative Code and Policies	
	Occupant loads for each area	1310st=
	Exit access travel distances (1016)	
	N/A 🗌 Common path of travel distances (1014.3 & 1028.8)	
***	N/A Dead end lengths (1018.4)	
MAY HAVE A X" MAX. HIGH CURB OR	Clear exit widths for each exit door	-
ROLL-IN SHOUD FOR WATER RETENTION. ROLL-IN SHOWERS SHALL <u>NOT</u> HAVE A CURB OR THRESHOLD	Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)	<u>B</u> Occ: 166sf=2
SHOWER CURB DETAIL	Actual occupant load for each exit door	
	N/A A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation	
	N/A 🗌 Location of doors with panic hardware (1008.1.10)	$\frac{B \ Occ:}{139 \text{ sf}=2} \qquad B \ Occ:$
BLE PARTS ON TOWEL DISPENSERS AND HAND	N/A Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)	147sf=
THE FOLLOWING TABLE (TAKEN FROM ANSI	N/A 🗌 Location of doors with electromagnetic egress locks (1008.1.9.8)	Exit Door Capacity 34″/.2=170 people
<u>46" 42" 40" 36" 34"</u>	N/A 🗌 Location of doors equipped with hold-open devices	
	N/A 🗌 Location of emergency escape windows (1029)	Business Occupan
	N/A 🗌 The square footage of each fire area (902)	2204 st = 23 occ
	N/A 🗌 The square footage of each smoke compartment (407.4)	

N/A | | Note any code exceptions or table notes that may have been utilized regarding the items above



)ccupancy: 23 occupants

EXIT

remote to the building front exit

ACCESSIBILITY

NOTES. UL DETAIL AND EGRESS DIAGRAM

T2



C. TOILET – 60"x60"(56"MIN) CLEAR SPACE.

2009 ICC/ANSI 117.1

(106)

E. CLEAR FLOOR SPACE - 30"x48"

D. TURNING SPACE – CIRCULAR SPACE FIG A. 304.3,

8'-0"

A1.2 SCALE: 3/8" = 1'-0"

B. SINK – 30"x48" CLEAR SPACE CENTERED ON SINK. SEC. 606 2009 ICC/ANSI 117.1

FIG. 604.3, 2003 ICC/ANSI 117.1 FIG. C 803.1, 2009 ICC/ANSI 117.1

3 Enlarged Plan A1.2 1/4" = 1'-0"

- A. DOOR 60"x54" CLEAR SPACE AT DOOR FOR FRONT APPROACH PULL SIDE. SEE FIG. 404.2.3.1(A), 2009 ICC/ANSI 117.1

4 Interior Elevation – Breakroom Kitchenette



- DIAMETER TO BE 1-1/4" TO 1-1/2" W/ 1-1/2" HAND CLEARANCE
 - FROM FACE OF BAR TO WALL FINISH SURFACE.
 - 4. PROVIDE ALL NECESSARY BLOCKING FOR GRAB BARS. GRAB BARS & FASTENERS TO BE CAPABLE OF SUPPORTING A 250 LB. LOAD AT ANY POINT ALONG ITS LENGTH.

1. REAR WALL GRAB BAR TO BE 36" LONG & 6" FROM WALL

SIDE WALL GRAB BAR TO BE 42" LONG & 12" FROM WALL CORNER AT 34" AFF.

3. GRAB BARS TO HAVE CONCEALED FASTENERS WITH BAR

- 5. HANDICAP TOILETS SHALL HAVE A RIM HEIGHT OF 17" TO 19" AFF.
- 6. LAVATORIES SHALL HAVE A TOP HEIGHT OF 34" AFF & A MIN CLEAR HEIGHT BELOW OF 27".
- 7. PROVIDE TOILET PAPER DISPENSER CENTERED AT 19" AFF: PAPER TOWEL DISPENSER W/ OPERATING MECHANISM AT 48"
- MAX & MIN 18"X24" MIRROR W/ BOTTOM EDGE AT 40" MAX AFF.

ACCESSIBILITY NOTES

CORNER AT 34" AFF

- * SEE T1.2 FOR ADDITIONAL ACCESSIBILITY NOTES.



TYPICAL GRAB BAR LOCATIONS:



Do	or Schedule												
#	Name	Туре	Size	Door Material	Door Finish	Frame	Frame Finish	Rating	Hardware	Closer	Bumper	Kick Plate	Notes
100	Reception	2	3'-0"x7'-0"	wood & glass	stain	НМ	painted	по	lever	yes	wall	по	
101	Office 1	1	3'-0"x7'-0"	wood	stain	НМ	painted	по	lever	по	wall	по	
102	Office 2	1	3'-0"x7'-0"	wood	stain	НМ	painted	по	lever	no	wall	по	
103	Office 3	1	3'-0"x7'-0"	wood	stain	НМ	painted	по	lever	no	wall	по	
106	Toilet Room	1	3'-0"x7'-0"	wood	stain	НМ	painted	по	lever	no	wall	no	
ex1	Entry	ex	3'-0"x7'-0"	alum/glass	alum	alum	alum	по	exist	yes	n/a	no	
ex2	Work [120]	ex				exist	exist	no			n/a		remove doors. frame only
ex3	Rear Exit	ex	3'-0"x7'-0"	alum/glass	alum	alum	alum	по	exist	yes	n/a	по	



see schedule for

kickplate locations



<u>door type 2</u> solid core full lite wood door w/ tempered glass

Door Types

owner to select door species

2. confirm all door and frame finishes w/owner. floor mtd. stop where applicable) 4. three hinges per door

rated door is indicated.

<u>Hardware:</u> 1. confirm styles with owner

2. all doors stops, closers and hinges to match hardware finish



2 Reflected Ceiling Plan – Suite 100 A1.1 1/8" = 1'-0"

Light F	ixture Legend
O D1	recessed fixture
HO S-1	wall sconce
F-1	2x4 lensed fluorescent



$\overline{1. \text{ conf}}$ irm all hardware, keying, and latches w/owner.

3. all doors and frames are to include silencers & wall mounted door stops (provide

5. all frames to be 2" hollow metal (except as noted). frames to be rated where

WALL LEG	3END
	EXISTING EXTERIOR WALL: BRICK VENEER, 1" MIN. AIRSPACE, VAPOR BARRIER, 1/2" SHEATHING, R-15 BATT INSUL., 6" MTL. STUDS, TYP. & INT. GWB
	EXISTING NON-RATED TYPICAL INTERIOR WALL: 3–5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO 9'–6" AFF W/ SOUND BATT INSULATION.
_	EXISTING 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/ SOUND BATT INSULATION PER UL-U425.
======	NEW 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 1 LAYER 5/8" GWB EACH SIDE; HEIGHT VARIES. EXTEND WALL TIGHT TO FLOOR DECK ABOVE PER UL-U425. ADD SOUND BATT INSULATION.
	NEW NON-RATED TYPICAL INTERIOR WALL: 3–5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO 9'–6" AFF W/ SOUND BATT INSULATION.
	EXISTING WALL TO BE REMOVED

• • Court ALTERATION FOR Commerce Z 100Wake Forest, te Heritage (Suit TENANT 608



Plans and Schedules



GENERAL NOTES:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE AND LOCAL PLUMBING AND BUILDING CODES.

2. ALL EXCAVATION, BACKFILL, CUTTING AND PATCHING OF SURFACES BY PLUMBING CONTRACTOR. ALL WORK TO BE PERFORMED SHALL BE COORDINATED WITH GENERAL CONTRACT.

3. PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE. WATER TEST FOR 1 HOUR AT 150 PSI. APPLY 10 FEET OF HYDROSTATIC HEAD TO ALL PARTS OF DRAINAGE SYSTEM. WATER SUPPLY SYSTEM SHALL BE STERILIZED WITH A CHLORINE SOLUTION.

4. PROVIDE SUBMITTAL DATA ON ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE. . THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH

THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS PLUMBING SYSTEM.

6. THE PLUMBING CONTRACTOR SHALL GUARANTEE AND WARRANT FOR A PERIOD OF TWELVE MONTHS AGAINST FAULTY WORKMANSHIP OR MATERIAL.

7. INSTALL PLUMBING SYSTEMS IN ACCORDANCE WITH PLANS WHEREVER POSSIBLE. IF BETTER PIPE ROUTING BECOMES EVIDENT DURING CONSTRUCTION, INSTALL AT LOCATIONS MOST ECONOMICAL AND PRACTICAL. COORDINATE WITH ENGINEER IF NECESSARY.

8. WATER PIPING ABOVE GRADE SHALL BE TYPE L COPPER WITH WROUGHT COPPER FITTINGS. WATER PIPING BELOW GRADE SHALL BE TYPE K SOFT COPPER WITH NO JOINTS BELOW GRADE. ALL JOINTS MADE WITH 95-5 TIN ANTINOMY LEAD FREE SOLDER. VALVES SHALL BE EQUAL TO RED & WHITE WITH SOLDER ENDS. PIPING MAY BE PEX TYPE PLASTIC WITH COPPER CRIMP RINGS IN NON-EXPOSED AND NON-RATED AREAS AS APPROVED BY LOCAL OFFICIALS.

9. WASTE & VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D-2665-87. CEMENT WELDED JOINTS.

10. INSULATION SHALL BE EQUAL TO RUB-TEX FLEXIBLE ELASTOMIC THERMAL INSULATION, BLACK IN COLOR, FLAME SPREAD RATING OF 25 OR LESS AND SMOKE RATING OF 50 OR LESS. COLD AND HOT WATER 1/2". ALL PIPING SHALL BE INSULATED IN AREAS SUBJECT TO FREEZING. PROVIDE SHEET METAL SHIELD BETWEEN INSULATION AND HANGERS. FITTINGS AND VALVE BODIES SHALL BE INSULATED WITH MITERED SECTIONS OF SAME MATERIAL AS PIPING. DO NOT USE PVC ZIP JACKETS. PROVIDE 1" INSULATION ON ALL EXPOSED WASTE PIPING UNDER LAVATORIES.

11. WALL CLEANOUTS SHALL BE JONES CAST BRONZE COUNTERSUNK PLUG AND POLISHED STAINLESS STEEL ROUND ACCESS COVER PLATE. FLOOR CLEANOUTS SHALL BE JONES.

12. THE PLUMBING CONTRACTOR SHALL INCLUDE IN HIS PRICE THE COSTS RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, AND ANY RELATED CHARGES.

13. ESCUTCHEONS AND COVER PLATES ARE REQUIRED FOR FINISHED WALL PENETRATIONS.

14. PROVIDE SHUT-OFF VALVES ON EACH ISOLATED FIXTURE AND EACH GROUP OF FIXTURES IN ACCESSIBLE PLACES AS SHOWN ON PLANS OR AS REQUIRED.

15. A WATTS 909 RPZ WAS PROVIDED FOR BUILDING DURING SHELL CONSTRUCTION PHASE.

FIXTURE SPECIFICATIONS: ALL "OR EQUAL"

P-1 WATER CLOSET(HANDICAPPED): VITREOUS CHINA, BOTTOM OUTLET, FLOOR MOUNTED, CLOSED-COUPLED TANK, ELONGATED BOWL, COMPLETE WITH WATER SAVER TRIM, OPEN SEAT, SUPPLIES, AND STOPS. MANSFIELD 137-16 P-2 LAVATORY: VITREOUS CHINA, WALL HUNG LAVATORY, FRONT OVERFLOW, SOAP DEPRESSIONS, DRILLED FOR 4" CENTER SET, 4" SPOUT, SINGLE LEVER HANDLE, AERATOR, TAILPIECE WITH P-TRAP, AND SUPPLIES AND ESCUTCHEONS. MANSFIELD 2008C WITH MOEN 8884.

P-3 BREAK ROOM SINK: 22 X 19 x 6 STAINLESS STEEL SINK, ELKAY LR-2219 WITH MOEN 8720 FAUCET, 9" SPOUT, SINGLE HANDLE, SIDE SPRAY, AERATOR, TAILPIECE WITH P-TRAP, AND SUPPPLIES AND ESCUTCHEONS.

WH-1 EXISTING 3.5KW INSTANTANEOUS TO BE RELOCATED.

WH-2 INSTANTANEOUS WATER HEATER: 1500KW ,120V,12.5A, WATER HEATER, TEMPERATURE AND PRESSURE RELIEF VALVE. ARISTON GL4

	PLUMBING PLAN NOTES
TAG	TYPE
$\langle 1 \rangle$	RELOCATE EXISTING UNDERCOUNTER WATER HEATER(WH-1) AND DISCONNECT. PROVIDE NEW FOR CONNECTION TO SINK.
$\langle 2 \rangle$	PROVIDE NEW UNDERSINK WATER HEATER(WH-2)
$\langle \overline{3} \rangle$	REMOVE EXISTING HUB DRAIN. PATCH FLOOR TO MATCH EXISTING.
$\langle 4 \rangle$	CONNECT NEW SINK(P-3) TO EXISTING 2" WASTE UNDERSLAB. CONNECT WITH 1/2" WATER TO 3/4" WATER ABOVE CEILING. PROVIDE NEW 2" VENT TO EXISTING 2"VTR.
$\langle 5 \rangle$	CONNECT NEW LAV(P-2) TO EXISTING 2" WASTE IN WALL. CONNECT WITH $1/2$ " WATER TO $1/2$ " WATER IN WALL. THIS IS THE 2"VTR.
6	CONNECT NEW WC(P-1) TO EXISTING 4" WASTE UNDERSLAB. CONNECT WITH $1/2$ " WATER TO $3/4$ " WATER ABOVE CEILING. PROVIDE NEW 2" VENT TO EXISTING 2"VTR.

<u>LEGEND</u> ____ COLD WATER PIPING HOT WATER PIPING SANITARY SEWER PIPING VENT PIPING ____ EXIST SANITARY SEWER _____ EXIST COLD WATER PIPING VENT THROUGH ROOF VTR CLEAN OUT CO P-1 PLUMBING FIXTURE AFF ABOVE FINISHED FLOOR CONNECT TO EXIST.

FIXTURE SIZES

MARK	FIXTURE	WASTE	VENT	CW	НW
P-1	HC WATER CLOSET	3	2	1/2	
P-2	LAVATORY	2	1 1/2	1/2	1/2
P-3	SINK	2	1 1/2	1/2	1/2
WH-1	WATER HEATER			1/2	1/2
WH-2	WATER HEATER			1/2	1/2

MINIMUM PLUMBING FACILITIES:

2204 SQ. FT OFFICE /100 SQ.FT.PER PERSON = 22 PEOPLE 50 % MALES = 11 PEOPLE

50 % FEMALES = 11 PEOPLE

REQUIREMENTS FOR OFFICE SPACE: MALES: 1 WC, 1 LAV FEMALES: 1 WC, 1 LAV

*SEPARATE FACILITIES ARE NOT REQUIRED FOR LESS THAN 25 OCCUPANTS



System No. WL 1001







INSUL., 6" MTL. STUDS, TYP. & INT. GWB EXISTING NON-RATED INTERIOR WALL TO DECK: 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/

EXISTING 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/ SOUND BATT INSULATION PER UL-U425. NEW 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ (2) LAYERS 5/8" GWB EACH SIDE; HEIGHT VARIES. EXTEND WALL TIGHT TO FLOOR DECK ABOVE PER UL-U425. ADD SOUND BATT INSULATION.

3–5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO 9'-6" AFF W/ SOUND BATT INSULATION.

WALL LEGEND



BRICK VENEER, 1" MIN. AIRSPACE, VAPOR BARRIER, 1/2" SHEATHING, R-15 BATT



I FLOOR PLAN - SUITE 100 PI.I 1/8" = 1'-0"

	PLAN NOTES
TAG	TYPE
	RELOCATE 48X18" RETURN AIR TRANSFER DUCT AND FIRE DAMPER TO PROTECT PENETRATION OF NEW FIRE RATED WALL. SEE ARCH PLANS FOR FIRE RATED WALL DETAIL.
2	EXISTING 30X18" RETURN AIR TRANSFER DUCT AND FIRE DAMPER TO REMAIN AS IS.
3	PROVIDE NEW FIRE DAMPER IN 28"X16" RIGID DUCT TO PROTECT PENETRATION OF NEW FIRE RATED WALL. SEE ARCH PLANS FOR FIRE RATED WALL DETAIL.
4	PROVIDE NEW FIRE DAMPER IN 12"RD RIGID DUCT TO PROTECT PENETRATION OF NEW FIRE RATED WALL. SEE ARCH PLANS FOR FIRE RATED WALL DETAIL.
5	RELOCATE EXISTING THERMOSTAT
6	EXISTING THERMOSTAT TO REMAIN AS IS FOR FTU-20
	RELOCATE EXISTING FTU-20 TO NEW LOCATION. INCLUDE PLENUM, 8KW ELECTRIC HEATER, BALANCING DAMPER, ALL CONTROLS. PROVIDE NEW 10"RD DUCTWORK CONNECTION TO MAIN, REUSE EXISTING 14X14 AND 12X12 DUCT.
8	REMOVE 3 EXISTING DIFFUSERS AND DUCTWORK. REUSE IN ADJACENT TENANT ALTERATION.
9	RELOCATE EXISTING DIFFUSERS TO NEW CEILING GRID AND DUCTWORK. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
(10)	RELOCATE EXISTING RETURN GRILLES INTO NEW CEILING GRID.
(11)	PROVIDE NEW SUPPLY DIFFUSERS TO MATCH EXISTING. REUSE EXISTING TAKEOFF FROM MAIN DUCT AND PROVIDE NEW FLEX AS SHOWN. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
(12)	RELOCATE EXISTING DIFFUSER TO NEW CEILING GRID. REUSE EXISTING TAKEOFF FROM MAIN DUCT AND PROVIDE NEW FLEX AS SHOWN. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
(13)	REUSE EXISTING VAV-1. RELOCATE EXISTING DIFFUSER TO NEW CEILING GRID. PROVIDE NEW TAKEOFF FROM MAIN DUCT AND PROVIDE NEW FLEX AS SHOWN. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
(14)	REUSE EXISTING VAV-1. RELOCATE EXISTING DIFFUSER TO NEW CEILING GRID. PROVIDE NEW TAKEOFF FROM MAIN DUCT AND PROVIDE NEW FLEX AS SHOWN. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
(15)	PROVIDE NEW EXHAUST FAN FOR TOILET. BROAN L150, 140 CFM, 1.4A, 120V. PROVIDE WITH ROOF CAP, BACKDRAFT DAMPER, AND DISCONNECT.
(16)	PROVIDE NEW RETURN GRILLE TO MATCH EXISTING.

HVAC GENERAL NOTES:

1. ALL DUCT SIZES ARE FREE AREA SIZES. ALLOW FOR INTERNAL INSULATION.

2. ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.

3. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.

4. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.

5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.

6. DUCTWORK AS SHOWN ON THE DRAWINGS IN STRICTLY DIAGRAMMATIC. COORDINATE EXACT LOCATION WITH THE BUILDING STRUCTURE.

7. REPLACE ALL FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.

8. ALL DUCT TO BE CONSTRUCTED OF GALVANIZED STEEL SHEETS, IN ACCORDANCE WITH SMACNA GAGES AND STANDARDS. EXPOSED ROUND SUPPLY SHALL BE FACTORY FABICATED PF 28-GAUGE MIN. WITH SPIRAL LOCKSEAM. ALL DUCTS JOINTS SHALL BE SEALED AIRTIGHT.

9. FLEXBILE DUCT SHALL BE INSULATED, SOUND ATTENUATING, LOW VELOCITY TYPE AND SHALL COMPLY WITH NFPA 90A AND 90B. FLEXIBLE DUCT SHALL BE UL LISTED, CLASS 1 INSULTED TYPE, RATED FOR A MINIMUM OF 4" POSITIVE STATIC AND A MINIMUM OF 1" NEGATIVE STATIC PRESSURE. FLEXIBLE DUCT SHALL BE FACTORY-FORMED, COMPOSED OF SPIRAL WOUND, CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER, COVERED WITH INSULATION WITH A VAPOR BARRIER. INSULATION R-VALUES PER THE NC ENERGY CODE.







I FLOOR PLAN - SUITE 100 MI.I 1/8" = 1'-0"



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Interior



\$	LIGHT SWITCH, MOUNT AT 48" AFF U.N.O.
S_3	THREE-WAY LIGHT SWITCH, MOUNT AT 48" AFF U.N.O.
ф	DUPLEX OUTLET, MOUNT BOX CENTER AT 14" AFF U.N.O.
Φ_{E}	EXISTING DUPLEX OUTLET, MOUNT BOX CENTERTO REMAIN. REWIRE TO CIRCUIT AS SHOWN
$\Phi_{\rm GFI}$	GROUND FAULT INTERUPTED DUPLEX OUTLET, MOUNT BOX CENTER AT 14" AFF U.N.O.
∇	TELEPHONE/DATA/CABLE OUTLET, MOUNT BOX CENTER AT 14" AFF U.N.O. PROVIDE WITH CONDUIT TO CEILING AND 4X4X1-1/2 BOX.
	FLUORESCENT LIGHTING- 2 LAMP-LAY-IN (F32T83500K), TROFFER, 2'x4', CONFIRM LENS TYPE WITH CLIENT, SINGLE- ENERGY SAVINGS BALLAST (120/277V) -PROVIDE WITH DISCONNECT PER NEC 410.74G
0	RECESSED DOWNLIGHT, 5" DIA COMPACT FLUORESCENT LAMP, WHITE BAFFLE, 2–13W LAMPS, ENERGY SAVINGS BALLAST (120/277V) –PROVIDE WITH DISCONNECT PER NEC 410.74G
<u> </u>	WALL MOUNTED CFL LIGHT, 1–13W LAMP, ENERGY SAVINGS BALLAST (120/277V)– PROVIDE WITH DISCONNECT PER NEC 410.74G. CONFIRM TYPE WITH CLIENT.
æ	EMERGENCY LIGHT, WALL MTD. DUAL HEAD w/90 MIN. STANDBY BATTERY, 12W HALOGEN PAR 36
$\square \bigotimes \square$	EMERGENCY/EXIT LIGHT, CEILING MTD. DUAL HEAD w/90 MIN. STANDBY BATTERY, 12W HALOGEN PAR 36
os	CEILING MOUNTED OCCUPANCY SENSOR
NL	NIGHT LIGHT TO REMAIN ON AT ALL TIMES
	EXHAUST FAN. REFER TO MECH. DWGS
	DISCONNECT SWITCH
	RECESSED ELECTRICAL PANEL
1	SWITCHED CIRCUIT
	UNSWITCHED CIRCUIT
"#"	HT. TO MIDDLE OF JUNCTION BOX
A.F.F.	ABOVE FINISHED FLOOR
B.F.C.	BELOW FINISHED CEILING
	NOTE: ALL ELECTRICAL INCLUDING LIGHT FIXTURES TO BE VERIFIED WITH OWNER/BUILDER PRIOR TO ROUGH-IN

ELECTRICAL NOTES:
THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE OPERABLE ELECTRICAL DISTRIBUTION SYSTEM. ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES. ELECTRICAL CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CODE CONFLICTS IN WRITING PRIOR TO RECEIPT OF BIDS.
2. THIS CONTRACT INCLUDES COMPLETE SERVICE FROM UTILITY POINT OF DELIVERY. ALL QUIPMENT TO BE SERVICE ENTRY RATED AND LABELED, UNLESS OTHERWISE INDICATED. ALL EQUIPMENT TO BE RATED FOR EXPECTED MAXIMUM AIC FAULT CURRENT.
3. THIS CONTRACT INCLUDES ALL NECESSARY PERMIT FEES AND TAX.
4. THIS CONTRACT INCLUDES COMPLETE ONE-YEAR WARRANTY ON ALL MATERIAL AND WORKMANSHIP FROM DATE OF COMPLETION.
5. FEEDERS TO PANELS ARE TO BE RUN IN EMT WHERE OVERHEAD DR SCHEDULE 40 PVC WHERE UNDERGROUND OR UNDERSLAB. GROUNDING ELECTRODE IN RIGID METALLIC CONDUIT.
5. SERVICE CONDUCTORS AND FEEDERS TO BE THWN OR THHN COPPER. ALL WIRE TERMINATIONS AND EQUIPMENT TO BE RATED FOR 75 DEGREE C WIRE.
7. BRANCH CIRCUITS TO BE THHN /THWN RUN IN EMT CONDUIT, EXCEPT WIRING IN FLUORESCENT CHANNELS TO BE THHN COPPER. NO ALUMINUM BRANCH CIRCUITS WILL BE ACCEPTED.
3. MAXIMUM WATTAGE OF FLUORESCENT OR INCANDESCENT LIGHTING PER 120V, 20A 3RANCH CIRCUIT-1800 WATTS. MAXIMUM NUMBER OF 120V RECEPTACLES PER 20A CIRCUIT-EIGHT. MINIMUM BRANCH CIRCUIT SIZE- #12 COPPER. ALL FLUORESCENT FIXTURES TO HAVE ELECTRONIC OR 90% POWER FACTOR BALLASTS AND T-8 TUBES. ALL DESIGNATED RECEPTACLES TO BE ON SEPARATE BRANCH CIRCUITS.
D. IN ALL INSTANCES, WIRE CAPACITIES AND DEVICE RATINGS ARE TO EQUAL OR EXCEED BREAKER OR FUSE RATINGS.
0. PER NEC 517.45, NO RECUSSITATION EQUIPMENT IS REQUIRED.
11. FUSED DISCONNECTS ARE REQUIRED FOR MULTI-MOTOR CONDENSING UNITS AND PACKAGED UNITS.
2. PROVIDE A 120V W/P GFI SERVICING RECEPTACLE WITHIN 15 FEET OF HVAC EQUIPMENT. NCLUDE PULL LIGHT IN ATTIC SPACE IF NOT PROVIDED DURING SHELL CONSTRUCTION.
3. PROVIDE GFI RECEPTACLES IN RESTROOMS, OUTDOORS AND ALSO AS REQUIRED BY N.E.C. AND N.C. BUILDING CODE. SHALL BE CONNECTED AT END OF CIRCUIT OR SO THAT THEIR OPERATION DOES NOT EFFECT DOWNSTREAM DEVICES.
4. DO NOT INSTALL ANY ELECTRICAL EQUIPMENT, ACCESSORIES, OR FIXTURES WITHOUT PROPER CODE-REQUIRED CLEARANCES OR WITHOUT MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
5. ALL PENETRATIONS IN FIRE RATED ASSEMBLIES TO BE SEALED AS SHOWN ON RATED DETAILS.
6. GROUNDING CONDUCTOR AT MAIN SWITCHGEAR SHALL BE CONNECTED TO EQUIPMENT GROUNDING CONDUCTOR USING A BONDING JUMPER, SIZED PER N.E.C. TABLE 250-94.
7. RECEPT. ON OPPOSITE SIDES OF RATED WALL SHALL BE SPACED A MINIMUM OF 24" OF HORIZONTAL SEPARATION.
8. PROVIDE EXIT LIGHTS AS REQUIRED OR AS SHOWN ON DRAWINGS. CONNECT TO LOCAL LIGHTING CIRCUIT BEFORE THE SWITCHING.
9. PROVIDE EMERGENCY LIGHTS AS REQUIRED OR AS SHOWN ON DRAWINGS. CONNECT TO LOCAL LIGHTING CIRCUIT BEFORE THE SWITCHING.
20. EXTERIOR LIGHTING PROVIDED IN SHELL BUILDING. EMERGENCY LIGHTING INCLUDED 90 MIN POWER

20. EXTERIOR LIGHTING PROVIDED IN SHELL BUILDING. EMERGENCY LIGHTING INCLUDED 90 MIN POWER 21. PROVIDE OCCUPANCY MOTION DETECTOR SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NC ENERGY CODE 805.2.2. OMIT CONTROLS IN CORRIDOR, CLOSETS, AND TOILETS.

ELECTRICAL SYSTEMS AND EQUIP
METHOD OF COMPLIANCE:
Prescriptive X Performance Energy
Provide a standard riser diagram which indic point for check metering. None Required.
Provide a standard panel schedule description identifies different end-use loads. See Plar
Lighting Schedule lamp type required in fixture – See L number of lamps in fixture – See ballast type used in the fixture – See Le number of ballasts in fixture – See L total wattage per fixture – See L
total interior wattage specified vs. allowed
allowed – .84 W/sq.ft. specified – .75 W/sq.ft. OPEN OFFICES (1311.6SF) – allowed – .98 W/sq.ft. specified – .74 W/sq.ft. CLOSED OFFICES (368SF) – allowed – 1.11 W/sq.ft. specified – .87 W/sq.ft. HALL (188 SF) – allowed – .65 W/sq.ft. specified – .42 W/sq.ft. BREAK (63 SF) – allowed – .99 W/sq.ft. specified – .99 W/sq.ft.
RECEP (148 SF) — allowed — 1.29 W/sq.ft. specified — .36 W/sq.ft.
total exterior lighting-
PROVIDED DURING SHELL CONSTR
DESIGNER STATEMENT: To the best of my knowledge and belief, th complies with the electrcial system and equ of the North Carolina State Building Code,

SIGNED:

Energy.

NAME: Elizabeth D.Van Noordt, P.E. TITLE: Professional Engineer



QUIPMENT

Energy Cost Budget 🗌

indicates designated ired.

scription which e Plans

See Legend See Legend See Legend

See Legend See Legend

lowed -

CONSTRUCTION

lief, the design of this building and equipment requirements

WALL LEG	GEND
	EXISTING EXTERIOR WALL: BRICK VENEER, 1" MIN. AIRSPACE, V INSUL., 6" MTL. STUDS, TYP. & INT
	EXISTING NON-RATED INTERIOR WA 3–5/8″20 GA. METAL STUDS @ 16 SOUND BATT INSULATION.
	EXISTING 1-HR RATED FIRE PARTIT 3-5/8" 20 GA. METAL STUDS @ 16 SOUND BATT INSULATION PER UL-I
E	NEW 1-HR RATED FIRE PARTITION 3-5/8" 20 GA. METAL STUDS @ 16 HEIGHT VARIES. EXTEND WALL TH ADD SOUND BATT INSULATION.
	NEW NON-RATED TYPICAL INTERIO 3-5/8" 20 GA. METAL STUDS @ 16 SIDE TO 9'-6" AFF W/ SOUND BAT
C====>	EXISTING WALL TO BE REMOVED



I FLOOR PLAN - SUITE 100 E1.1 1/8" = 1'-0"

DR WALL: 16" O.C. W/ 5/8" GWB EACH ATT INSULATION.

-U425. (TENANT DEMISING WALL): 16" O.C. W/ (2) LAYERS 5/8" GWB EACH SIDE; IGHT TO FLOOR DECK ABOVE PER UL-U425.

TION (TENANT DEMISING WALL): 6" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/

ALL TO DECK: 6" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/

VAPOR BARRIER, 1/2" SHEATHING, R-15 BATT r. GWB

or Completion Sprint Commerce 00 Z \vdash S FORE ritage Suite Ð Interior 608 Herita KE N 9/24/15 TUR 300 -829-0860 SUITE CHITE EAST HARGETT STREET, S RALEIGH, NC 27601 .. 919-829-4969 FAX. 919-82 AR URER EAST TEL. S 15. Ξ Z DATE 09-24-15 MSM DR. DSM CH. 15085 PROJ. # REVISIONS DATE --/--/--

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LIGHTING PLAN AND DETAILS









	к	VA PER PI	HAS	ε
LOAD SERVED	А	В		С
EXISTING CIRCUIT	.8			
EXISTING CIRCUIT		.8		
EXISTING CIRCUIT				8
EXISTING CIRCUIT	.8			
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EXISTING CIRCUIT				8
EXISTING CIRCUIT	.8			
EXISTING CIRCUIT		.8		
EXISTING CIRCUIT				8
EXISTING CIRCUIT	1.1			
EXISTING CIRCUIT		.9		
EXISTING CIRCUIT			1	.5
EXISTING CIRCUIT	.2			
EXISTING CIRCUIT		.9		
EXISTING CIRCUIT				7
EXISTING CIRCUIT	.8			
EXISTING CIRCUIT		1.1		
EXISTING CIRCUIT				5
EXISTING CIRCUIT	.7			
EXISTING CIRCUIT		1.2		
EXISTING CIRCUIT			1	.2
LUEMANU LUAU		CONNECT	ΈD	DE
LIGHTING @125%		0		
RECEPT @100%/50%		27.61		
WH @125%		0		
HVAC @ MCA+25% LG N	OTOR	3.68		
EQUIP @100%		0		
TOTAL DEMAND				

	ĸ	VA PER PI	IAS	E
LOAD SERVED	А	В		С
EXISTING CIRCUIT	2.3			
		2.3		
EXISTING CIRCUIT				.1
EXISTING SPARE				
SPACE				
DEMAND LOAD		CONNECT	ΈD	DEI
LIGHTING @125%		0		
RECEPT @100%/50%		0		
WH @125%		0		
HVAC @ MCA+25% LG M	OTOR	6.36		
EQUIP @100%		0		
TOTAL DEMAND				

		K١	VA PER P	HASE	WIRE	CIR.	CIR.	N	EUTRA	L	CIR.	CIR.	WIRE	KV	A PER PI	HASE	
LOAD S	ERVED	А	В	С	SIZE	BKR.	NO.		ABC		NO.	BKR.	SIZE	А	В	С	LOAD SERVED
EXISTIN	IG LIGHTS	1.2			E	20/1	43				44	20/1	12	1.5			LIGHTS, NOTE 2
EXISTIN	IG LIGHTS		1.6		E	20/1	45	$\Box \frown$		$\Box \frown$	46	20/1					EXISTING SPARE
LIGHTS	, NOTE 1			.8	12	20/1	47	$\Box \frown$		$\Box \frown$	48	20/1					EXISTING SPARE
EXISTIN	IG LIGHTS	.9			E	20/1	49	$\Box \frown$		$\Box \frown$	50	20/1					EXISTING SPARE
EXISTIN	IG LIGHTS		1.4		E	20/1	51		I		52	20/1					EXISTING SPARE
EXISTIN	IG LIGHTS			1.7	E	20/1	53	$\Box \frown$		$\Box \frown$	54	20/1					EXISTING SPARE
EXISTIN	IG LIGHTS	1.2			E	20/1	55	\Box		\Box	56	20/1					EXISTING SPARE
EXISTIN	IG LIGHTS		1.0		E	20/1	57		I		58	20/1					EXISTING SPARE
EXISTIN	IG LIGHTS			1.5	E	20/1	59			$\Box \frown$	60	20/1					EXISTING SPARE
EXISTIN	IG LIGHTS	1.8			E	20/1	61	\Box		$\Box \frown$	62	20/1					EXISTING SPARE
EXISTIN	IG LIGHTS		1.0		E	20/1	63	\Box		$L \sim$	64	20/1					EXISTING SPARE
EXISTIN	IG CIRCUIT			2.9	E	30/3	65	L		L	66	30/3	E			2.9	EXISTING CIRCUIT
		2.9			E		67	L/L_		L/L	68		E	2.9			
			2.9		E		69	LY-		LY-	70		E		2.9		
SPACE							71	$L \sim$			72						SPACE
SPACE							73	$L \sim$		$L \sim$	74						SPACE
SPACE							75	$\lfloor \frown \rfloor$		$\lfloor \frown \rfloor$	76						SPACE
SPACE							77				78						SPACE
SPACE							79			$\lfloor \frown \rfloor$	80						SPACE
SPACE							81			$\lfloor \frown \rfloor$	82						SPACE
SPACE							83	L~			84						SPACE
												CONNEC	TED TOTALS	11.8	10.8	10.5	
		-									TO	TAL CON	INECTED KVA			33.1	
DEMA	ND LOAD		CONNECT	ED DEM	AND KVA							DE	MAND AMP			44.5	FXISTING
LIGHTING	©125%		15.79	1	9.74		277	7/480	v -	5 0	<u>م</u>						
RECEPT	@100%/50%		0	0)	MAIN C		T BRF	_	,_ ♥ _ RATIN(<u> </u>		s				
WH	@125%		0	()	MAIN B	US R	ATING	200	AMP	5, MF	G. <u>EAT</u>	- ON CUTLER-H	HAMMER	_ MODEL		UPI
HVAC @	MCA+25% LG N	IOTOR	17.28	1	7.28	* - E	XISTIN	G PAN	NEL BO	ARD	AND (BREAKERS A	RE SERIE	ES RATED	FOR 22K	SECTION 2 OF
EQUIP	@100%		0	()		ç.										
τοτα	L DEMAND				37.02	1– NE 2– NE	S. EW CIF EW CI	RCUIT.		ECT T	O EXI	STING BI STING S	REAKER MADI PARE BREAKI	E OPEN ER.	BY THIS	ALTERATIO	N.

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EXISTING LIGHTS	1.2			E	20/1	55	$\Box \frown$				56	20/1					EXISTING	SPARE	
EXISTING LIGHTS		1.0		E	20/1	57					58	20/1					EXISTING	SPARE	
EXISTING LIGHTS			1.5	Е	20/1	59	$\begin{bmatrix} - \end{bmatrix}$				60	20/1					EXISTING	SPARE	
EXISTING LIGHTS	1.8			Е	20/1	61	$\Box \frown$				62	20/1					EXISTING	SPARE	
EXISTING LIGHTS		1.0		E	20/1	63					64	20/1					EXISTING	SPARE	
EXISTING CIRCUIT			2.9	E	30/3	65					66	30/3	E			2.9	EXISTING	CIRCUIT	
	2.9			Е		67					68		Е	2.9					
		2.9		Е		69				<u> </u>	70		E		2.9				
SPACE						71				\sim	72						SPACE		
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SPACE						83				\sim	84						SPACE		
												CONNEC	TED TOTALS	11.8	10.8	10.5	1		
											TO	TAL CON	NECTED KVA	L		.3.3.1	1		
DEMAND LOAD)	CONNECTE		ND KVA	1							DE	MAND AMP			44.5			
LIGHTING @125%		15.79	19	.74	AIC_*	AMPS	5											(ISTING	2
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	_ECTRICAL PLAN NOTES
TAG	TYPE
$\langle 1 \rangle$	RELOCATE EXISTING UNDERCOUNTER WATER HEATER AND DISCONNECT. PROVIDE NEW HOMERUN AS NECESSARY TO EXISTING BREAKER IN PANEL L1.
2>	PROVIDE NEW UNDERSINK WATER HEATER WITH DISCONNECT. PROVIDE HOMERUN TO EXISTING BREAKER IN PANEL L1.
3	RELOCATE EXISTING FTU-20 TO NEW LOCATION. INCLUDE DISCONNECT SWITCH. PROVIDE NEW WIRE/CONDUIT AS NECESSARY FOR CONNECTION TO MDP -56(POWER) AND L1-41(DAMPER). ALL SIZES TO MATCH EXISTING.

75 KVA 48 3P, 4W DR TRANSFORI	80/208/120 NY MER.		
PNL 'L1',225 A, 120/208,3PH	PNL 'DP1' ,400 A, 277/480,3PH	400A D.S.	PNL "MDP',600 A, 277/480,3PH

POWER RISER

NTS





FIRE ALARM WORK INCLUDES PROVIDING 4 NEW HORN/STROBES WITH CONNECTION TO EXISTING FIRE ALARM SYSTEM. ALL OTHER DEVICES ARE EXISTING.

FIF	re alarm legend
FACP	EXISTING FIRE ALARM PANEL
ANUN	EXISTING ANNUNICIATOR
N	NEW HORN/STROBE CANDELA INDICATED
_F⊲ E	EXISTING HORN/STROBE CANDELA INDICATED

FIRE ALARM NOTES:

1. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE OPERABLE FIRE ALARM SYSTEM. ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CODE CONFLICTS IN WRITING PRIOR TO RECEIPT OF BIDS.

2. THIS CONTRACT INCLUDES CONNECTING NEW DEVICES, WIRING, CONDUIT TO EXISTING "ADDRESSABLE" FIRE ALRAM SYSTEM. PROVIDE SHOP DRAWINGS AND PRODUCT DATA SHEETS FOR ALL EQUIPMENT.

3. THIS CONTRACT INCLUDES ALL NECESSARY PERMIT FEES AND TAX.

4. THIS CONTRACT INCLUDES COMPLETE ONE-YEAR WARRANTY ON ALL MATERIAL AND WORKMANSHIP FROM DATE OF COMPLETION. INCLUDE OPERATING AND MAINTENANCE INSTRUCTIONS.

5. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, WIRING, OUTLET BOXES, JUNCTION BOXES AND SIMILAR DEVICES AS REQUIRED. WIRING SHALL BE AS SPECIFIED ON ELECTRICAL DRAWINGS AND OF TYPE RECOMMENDED BY THE NFPA, APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION FOR THE PURPOSE, AND PER MANUFACTURER'S RECOMMENDATIONS.

7. THE SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA-72 BY THE CONTRACTOR. CERTIFICATION OF APPROVAL SHALL THEN BE SUBMITTED IN WRITING.

8. ALL PENETRATIONS IN FIRE RATED ASSEMBLIES TO BE SEALED AS SHOWN ON RATED DETAILS.

9. ALL COMPONENTS SHALL BE COMPATIBLE. PROVIDE ALL NECESSARY CONTROL WIRING AND CONDUIT PER MANUFACTURER'S REQUIREMENTS.

10. ALL DEVICES/SUBMITTALS SHALL BE APPROVED BY FIRE MARSHALL PRIOR TO ORDERING/INSTALLATION.

11. UPGRADE EXISTING BATTERY SUPPLIES PER NFPA 72 AS NECESSARY TO ACCOMMODATE DEVICES INDICATED.

12 . HORN/STROBE: PROVIDE ELECTRONIC HORN/STROBES WITH A RED PLASTIC HOUSING. A SOUND LEVEL OF 91 DBA AVERAGE SHALL BE PROVIDED. THE STROBE SHALL PROVIDE SYNCHRONIZED FLASH OUTPUTS WITH CANDELA RATING AS INDICATED. THE STROBE SHALL HAVE LENS MARKINGS ORIENTED FOR WALL MOUNTING. HORN/STROBE SHALL MOUNT TO A 1-GANG ELECTRICAL BOX (2-1/2" DEEP).

FIRE ALARM SYSTEM															SY	S	TE	M	0	UT	PL	JT	S			
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Max Pipe or Conduit Diam, In.

SEE PLANS













I FLOOR PLAN - SUITE 100 FAI.I 1/8" = 1'-0"

BRICK VENEER, 1" MIN. AIRSPACE, VAPOR BARRIER, 1/2" SHEATHING, R-15 BATT

3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/

Interior Completion	Sprint	1608 Heritage Commerce Ct Suite 100	WAKE FOREST, NC
		ATH CARO ESSION SEAL 14467	A LOOSING
	MAURER ARCHITECTURE	115.5 EAST HARGETT STREET, SUITE 300 RALEIGH, NC 27601	TEL. 919-829-4969 FAX. 919-829-0860
I C P R	DATE DR. DR. DH. PROJ. # EVISIO	09-24 N 15 NS D /	4-15 ISM DSM 5085 ATE /
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	pdated july 27,	2015)		nouses)					
Name of Pr Address: — Owner or A	oject: <u>Suite 110</u> 1608 Heri uthorized Agent:	Spec Offi itage Comm David Ma	ice nerce Court aurer 0860		Suite # Phone:	110 919 829 4	.969	tecture co	m
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DESIGNE	R I	FIRM			NAME			LIC#	TELE
Architectur `ivil	al: <u>Ma</u>	aurer Arch	nitecture		David Mau	ILEL		5131	919.829.496
Electrical: Fire Alarm	EL	izabeth D.	Van Noordt	, PE	Elizabeth	D. Van Noo	ordt, PE	14467	919.414.646
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ALLOWABLE H	EIGHT			
MOST RESTRICTIVE USE ()	ALLOWABLE HEIGHT (TABLE 503)		INCR SPF	EA RIN
Type of Construction		Туре	2-B	
Building Height in Feet	H= 55 ft		H + 20 ft :	= 1
Building Height in Stories	s= 2		S +1 =	ſ
			•	
BUILDING DATA	FOR ALL PROJECTS			
Construction Type:	□ I-A □ IV-HT	□I-] □V	B □II -A □V	-A 7-E
Mixed co	onstruction:	ΟN	o 🗆 Y	es

Sprinklers:	No	Yes	□NFPA 13	□ NFPA 13R		
	🗌 Parti	ally Sprin	klered	□ Special Suppression		
Standpipes:	No	Yes	Class:]III 🗌	Wet Dry
Fire District:	No	☐ Yes	(Appendix D) Flood Hazard	Area:	No Yes
Building Height	: <u>17'-0"</u>	Feet	Story			
Basement:	No	☐ Yes	-			
Mezzanine:	💽 No	□ Yes				
High Rise:	🖲 No	□ Yes	Life Safety P	Plan Sheet # (if provided	l):	
Gross Building	Area:	EXIS	FING (SO FT)	NEW (SC) FT)	SUB-TOTAL
Basement					 /	
Ground Floor		13,92	9sf	0 sf		13,929sf
Mezzanine						
2nd Floor						
3rd Floor						
4th Floor						
5th Floor						
Porch						
Total		13,92	9sf	0 sf		13,929sf

Area of Project Tenant/Alteration/Renovation: 2280 sf Area of Construction: 2280 sf

FIRE PROTECTION REQUIREMENTS THIS SECTION REQUIRED FOR ALL PROJECTS

Life Safety Plan Sheet #, if Provided _____

	FIRE	F	RATING		DESIGN #		DESIGN #
BUILDING ELEMENT	SEPARATION DISTANCE (FEET)	REQ'D*	PROVIDED (W/HR [*] REDUCTION)	AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATEI JOINTS
					1		1
Bearing Walls - Exteri	or						
NORTH		n/a					
EAST		n/a					
WEST		n/a					
SOUTH		n/a					
Interior Bearing Walls		n/a					
Nonbearing Walls - Ex	terior						
NORTH	>30'	n/a					
EAST	>30'	n/a					
WEST	>30'	n/a					
SOUTH	>30'	n/a					
Interior Nonbearing Wa	lls	n/a					
Structural frame, includi girders, trusses	ing columns,	0					
Floor construction, inclu beams and joists. List (uding supporting construction type.	n/a					
Floor Ceiling Assembly		n/a					
Columns Supporting Fle	oors	n/a					
Roof construction, inclu beams and joints **	ding supporting	0					
Roof Ceiling Assembly		0					
Columns Supporting Ro	oof	0					
Shafts - Exit Enclosure:	5	n/a					
Shafts - Other		n/a					
Shafts - Other		n/a					
Shafts - Other		n/a					
Corridor Separation		0					
Occupancy Separation		0					
Party/Fire Wall Separat	ion	n/a					
Incidental Use Separati	on	n/a					
Dwelling/Sleeping Unit	Separation	n/a					
Smoke Barrier Separat	ion						
Tenant Senaration		1_hr	1_hr	Т2	114.25		

PERCENTAGE OF WALL OPENING CALCULATIONS THIS SECTION FOR ADDITION, NEW AND CHANGE OF USE Allowable openings per Table 705.8

	EVIS	ting	
		ne froi	1
Ν	o Lhai	hell Per	<u>п</u>

WALL LEGENDS	original Snew	
HIS SECTION REQUIRED FOR ALL F	PROJECTS	

CHECK IF THE FOLLOWING ARE PRESENT AND INDICATE BY A WALL LEGEND ON ALL PLANS Fire Partitions 709 ☐Fire Walls 706 Smoke Barriers 710 □Shaft Enclosure 708

LIFE SAFETY SYSTEM REQUIREMENTS THIS SECTION REQUIRED FOR ALL PROJECTS

Emergency Lighting:	□ No	●Y
Exit Signs:	□ No	●Y
Fire Alarm:	□ No	●Y
Smoke Detection Systems:	● No	□Y
Panic Hardware:	● No	□Y

EXIT REQUIREMENTS Number and arrangement of exits

RED FOR ALL PR	OJECTS				
MINIMUM NUM	IBER OF EXITS	TRAVEL [DISTANCE	ARRANGEMENT ME	ANS OF EGRESS 1,3
REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
1	2	200'	98'	39'-8"	65'-2"
	RED FOR ALL PR	RED FOR ALL PROJECTS MINIMUM NUMBER OF EXITS REQUIRED SHOWN ON PLANS 1 2	RED FOR ALL PROJECTS MINIMUM NUMBER OF EXITS TRAVEL I REQUIRED SHOWN ON PLANS ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1) 1 2 200'	RED FOR ALL PROJECTS MINIMUM NUMBER OF EXITS TRAVEL DISTANCE REQUIRED SHOWN ON PLANS ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1) ACTUAL TRAVEL DISTANCE SHOWN ON PLANS 1 2 200' 98'	RED FOR ALL PROJECTS MINIMUM NUMBER OF EXITS TRAVEL DISTANCE ARRANGEMENT ME (SECTION PLANS REQUIRED SHOWN ON PLANS ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1) ACTUAL TRAVEL DISTANCE SHOWN ON PLANS REQUIRED DISTANCE BETWEEN EXIT DOORS 1 2 200' 98' 39'-8''

Corridor dead ends (Section 1018.4) 2 Single exits (Section 1015.1; Section 1021.2) 3 Common Path of Egress Travel (Section 1014.3)

towers must comply with 412.3.2.

REASE FOR RINKLERS	SHOWN ON PLANS	CODE REFERENCE
	Type 2-B	Table 601
:= n∕a ft	н = 17'	Table 503
n/a	s = 1	Table 503

□III-A 🗌 III-B ●II-B

☐ Fire Barriers 707 ☐ Smoke Partitions 711

Occupant Load and Exit Width

CTS								
(a)	(b)	(a / b)	(0	;)		EXIT WIDT	H (in) 2,3,4,5	
AREA1 SQ FT			EGRESS W OCCUPANT (T	/IDTH PER ABLE 1005.1)	REQUIRE (SECTIOI (a / b	D WIDTH N 1005.1))) x c	ACTUAL SHOWN C	_ WIDTH ON PLANS
	LUAD	LUAD UCCUPANTS		LEVEL	STAIR	LEVEL	STAIR	LEVEL
2280	100	23	.3	.2	n/a	4.6″	n/a	34"
		23						
	(a) AREA1 SQ.FT. 2280	(a) (b) AREA1 SQ.FT. AREA PER OCCUPANT LOAD 2280 100	AREA1 SQ.FT. (b) (a / b) 2280 100 23 0 0 23 0 0 23	AREA1 SQ.FT. (b) (a / b) (c AREA1 SQ.FT. AREA PER OCCUPANT LOAD NUMBER OF OCCUPANTS OCCUPANTS EGRESS W OCCUPANT (T 2280 100 23 .3 Image: Comparison of the second	AREA1 SQ.FT. (b) (a / b) (c) AREA1 SQ.FT. AREA PER OCCUPANT LOAD NUMBER OF OCCUPANTS EGRESS WIDTH PER OCCUPANT (TABLE 1005.1) 2280 100 23 .3 .2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AREA1 SQ.FT. (b) (a / b) (c) AREA1 SQ.FT. AREA PER OCCUPANT LOAD NUMBER OF OCCUPANTS EGRESS WIDTH PER OCCUPANT (TABLE 1005.1) REQUIRE (SECTIO) (a / b) 2280 100 23 .3 .2 n/a Image: Comparison of the state of the s	AREA1 SQ.FT. (b) (a / b) (c) EXIT WIDT AREA1 SQ.FT. AREA PER OCCUPANT LOAD NUMBER OF OCCUPANTS EGRESS WIDTH PER OCCUPANT (TABLE 1005.1) REQUIRED WIDTH (SECTION 1005.1) (a / b) x c 2280 100 23 .3 .2 n/a 4.6" Image: Comparison of the second s	AREA1 AREA PER OCCUPANT LOAD NUMBER OF OCCUPANT EGRESS WIDTH PER OCCUPANT (TABLE 1005.1) REQUIRED WIDTH (SECTION 1005.1) (SECTION 1005.1) ACTUAL SHOWN OCCUPANT (TABLE 1005.1) 2280 100 23 .3 .2 n/a 4.6" n/a 0 0 0 0 0 0 0 0 0 2280 100 23 .3 .2 n/a 4.6" n/a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

1 See Table 1004.1.1 to determine whether net or gross area is applicable. 2 Minimum stairway width (Section 1009.1); min. corridor width (Section 1017.2); min. door width (Section 1008.1.1)

³ Minimum width of exit passageway (Section 1021.2)

4 The loss of 1 means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1) 5 Assembly occupancies (Section 1025)

ASSEMBLY OCCUPANCY INFORMATION

THIS SECTION FOR	R ASSEMBLY USE AREA(S	5)			
pace	Area - SF	Occupant Factor	Occupant Load	Exit Width	Exit Quantity
Jesemption	Loud	1 detor	Load	vv latli	Quantity
	·		caple		
	- <u> </u>	Not APP			
TOTAL					

PLUMBING FIXTURE REQUIREMENTS THIS SECTION REQUIRED FOR ALL PROJECTS

OCCURANCY	WATERC	LOSETS		LAVATORIES		SHOWERS/	DRINKING FOUNTAINS	
OCCUPANCY	MALE	FEMALE	URINALS	MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
Suite 110 – B use group	1-un	isex	n/a	1–ur	nisex	n/a	n/a	n/a
Total Required	1-unisex			1–ur	nisex		0	0
Total Provided	1-un	isex		1–иг	nisex		0	0

BUILDING DRAIN SIZE	NUMBER OF BUILDING DRAINS	TOTAL FIXTURE UNIT LOAD	WATER SERVICE SIZE	NUMBER OF WATER SERVICES	TOTAL FIXTURE UNIT LOAD	NOTES Existing No Change from
4″	1	60	1-1/2"	1	69.2	isinal Sherr
						origina

ACCESSIBLE PARKING

	TOTAL # OF PA	RKING SPACES	# OF ACCESSIBLI	TOTAL #		
LOT OR PARKING AREA	REQUIRED	PROVIDED	REGULAR W/ 5' ACCESS AISLE	VAN SPACES W/ 8' ACCESS AISLE	ACCESSIBLE	
	E	XISI OF Fro	m			
	NO C	hange	ermit			
	inini	I Sherr .				
TOTAL	origin					

SPECIAL APPROVALS (DESCRIBE SPECIAL APPROVALS FROM LOCAL JURISDICTIONS, COUNTY OR STATE DEPARTMENT OF HEALTH, NC DEPARTMENT OF INSURANCE,

INTERNATIONAL CODE COUNCIL, ETC.)

ENERGY SUMMARY

THIS SECTION FOR NEW, ADDITIONS, CHANGE OF USE, AND INTERIOR COMPLETION Existing No Change from original Shell Permit related to the fenestration and the envelope. See Electrical and Mechanical drawings for the Energy Code Compliance Statement

SITE LOCATION





Fire-resistance Ratings - ANSI/UL 263 See General Information for Fire-resistance Rating ANSI/UL 263 Design No. U425 May 07, 2013 (For Exterior Walls, Ratings Applicable For Exposure To Fire On Interior Face Only,

(See Items 4 and 5) Bearing Wall Rating - 45 Min, 1, 1-1/2 or 2 HR. (See Items 2 and 4) Load Restricted for Canadian Applications - See Guide BXIIV





Interior Walls

Rating 45 min 1 hr 1-1/2 hr 2 hr *1 layer, *2 layers

*Ratings applicable to a Classified fire resistive substituted on the exterior face. Exterior Walls Rating

45 min 1 hr 1-1/2 hr 2 hr 2 layers 3 layer

> CKNX.R14196 BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX R19374 — CKNX.R15187 CKNX.R2717

CKNX.R25370

STRUCTURAL DESIGN LOADS

No Change to the existing structural system and no new exterior openings are being added





HORIZONTAL SECTION

bottom tracks of wall assemblies shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection

with steel fasteners spaced not greater than 24 in. O.C. 2. Steel Studs — Min 3-1/2 in. wide. No. 20 MSG (0.0329 in., min bare metal thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicabl local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel

screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications. 3. Lateral Support Members — (Not shown) — Where required for lateral support of studs, support may be provided by means of steel straps, channels or other similar means as specified in the design of

 a particular steel stud wall system.
 4. Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Gypsum board bearing the UL Classification Marking as to Fire Resistance. Applied vertically with joints between layers staggered. Outer layer of 3 layer construction may be applied horizontally unless specified below. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

% of

% of

Design Load

Wallboard Protection Both Sides of Wall -No. of Layers & Thkns

of Board In. Each Layers	Des
*1 layer, 1/2 in. thick	100
yer, 5/8 in. thick	100
*2 layers, 1/2 in. thick	100
yers, 5/8 in. thick or	80
*3 layers, 1/2 in. thick	100
*2 layers, 3/4 in. thick	100
le to assemblies serving as extension is the serving as extension is the serving type with the service of the s	erior walls where allboard is

Wallboard Protection on Interior Side of Wall -No. of Layers & Thkns of Board In. Each Layers

45 min	1 layer, 5/8 in. thick	
1 hr	2 layers, 1/2 in. thick	100
1-1/2 hr	2 layers, 5/8 in. thick	
2 hr	3 layers, 1/2 in. thick	100
	2 layers, 3/4 in. thick	

AMERICAN GYPSUM CO (View Classification

CERTAINTEED GYPSUM CANADA INC (View Classification) CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751 GEORGIA-PACIFIC GYPSUM L L C (View Classification) —

LAFARGE NORTH AMERICA INC (View Classification) — CKNX.R18482 ADMASTER SYSTEMS INC (View Classification) — CKNX.R11809 NATIONAL GYPSUM CO (View Classification) — CKNX.R3501 PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094 PANEL REY S A (View Classification) — CKNX.R21796 SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262 TEMPLE-INLAND (View Classification) — CKNX.R6937 THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517 NITED STATES GYPSUM CO (View Classification) -CKNX.R1319 USG MEXICO S A DE C V (View Classification) -

CKNX.R16089 4A. Gypsum Board — Nom. 3/4 in. gypsum board applied vertically with joints between layers staggered. The thickness and number of layers and percent of design load for the 2 hr ratings are shown in the table above. ACADIA DRYWALL SUPPLIES LTD — Type X CGC INC — Types AR, IP-AR, IP-X3, or ULTRACODE UNITED STATES GYPSUM CO — Types AR, IP-AR, IP-X3, or ULTRACODE

ULTRACODE 4B. Gypsum Board* — As an alternate to Item 4 - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by eel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered. rizontal edge joints and horizontal butt joints in adjacent layers on interior walls (multilayer systems) staggered a min of 12 in. TEMPLE-INLAND — GreenGlass Type X NATIONAL GYPSUM CO — Type FSW-6.

SG MEXICO S A DE C V — Types AR, IP-AR, IP-X3, or

4C. Gypsum Board* -- (As an alternate to Items 4 and 4A) - 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 6. CERTAINTEED GYPSUM INC — Type SilentFX NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum EMPLE-INLAND — Type X ComfortGuard Sound Deadening

4D. Wall and Partition Facings and Accessories* — (As an alternate to Items 4 through 4B) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. ERIOUS ENERGY INC — Types QuietRock ES, QuietRock 527. ypsum Sheathing — For exterior walls, 1/2 or 5/8 in. thick assified or unclassified exterior gypsum sheathing applied rtically and attached to studs and runner tracks with 1 in. long Type S-12 bugle head screws spaced 12 in. OC. along studs and acks. One of the following exterior facings are to be applied over

Sypsum Board.

the gypsum sheathing. a. Siding, Brick, or Stucco — Aluminum siding, steel siding, brick veneer, or stucco attached to studs over gypsum sheathing and meeting the requirements of local code agencies. When a min 3-3/4 in. thick brick veneer facing is used, the Exterior Wall Rating is applicable with exposure on either face. Brick veneer wall attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick. When a min -3/4 in. thick brick veneer facing is used, Foamed Plastic (Item 10) ay be used.

Cementitious Backer Units* - 1/2 or 5/8 in. thick, square edge boards, attached to steel studs over gypsum sheathing with 1-5/8 in. long, Type S-12, corrosion resistant, wafer head steel screws, spaced 8 in. OC. Studs spaced a max of 16 in. OC. Joints covered with glass fiber mesh tape. UNITED STATES GYPSUM CO — Type DCB

c. Fiber-Cement Siding — Fiber-cement exterior sidings including smooth and patterned panel or lap siding.
d. Molded Plastic* — Solid vinyl siding mechanically secured to raming members in accordance with manufacturer's recommended installation details. ALSIDE, DIV OF ASSOCIATED MATERIALS INC

e. Wood Structural Panel or Lap Siding — APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and ructural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, ved and lap siding. f. Building Units* — (Not Shown) - 3 in. thick 18 x 24 in. cellular glass blocks, applied to the gypsum sheathing (Item 5) with PC 88

adhesive or fastened with F anchors spaced a maximum 24 in. OC. F anchors fastened to framing members with 1-1/4 in. long #6 drywall screws. PITTSBURGH CORNING CORP — Type FoamGlas

Fasteners — (Not Shown) — Screws used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick vallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second ayer Type S-12 by 1-5/8 in. long for 1/2 and 5/8 in. thick vallboards and 2-1/4 in. long for 3/4 in. thick wallboard. Third yer Type S-12 by 1-7/8 in. long.

. Batts and Blankets* — Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance, of a thickness to completely fill stud cavity. See Batts and Blankets* (BZJZ) Category for names of Classified

A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item - (100% Borate Formulation) — Spray applied cellulose terial. The fiber is applied with water to completely fill the nclosed cavity in accordance with the application instructions upplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product. U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only.

7B. Fiber, Sprayed* — As an alternate to Item 7 and 7A — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft3. NU-WOOL CO INC - Cellulose Insulation

7C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 7) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3. INTERNATIONAL CELLULOSE CORP — Celbar-RL

8. Joint Tape and Compound - (Not Shown) - Vinyl or casein. dry or premixed joint compound applied in two coats to joints and screw heads of outer layer. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints of outer layer.

9. Furring Channels — (Optional, not shown, for single or double layer systems) - Resilient furring channels fabricated from min 25 corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws.

10. Foamed Plastic* - Not Shown -For use with brick veneer as outlined in Item 5A - Maximum 2 in. thick rigid polystyrene nsulation attached to studs with fasteners of sufficient length to penetrate the foam and 3/16 in. into the stud. A minimum 1 in. air space is to be maintained between the outer surface of the foamed plastic and the inner surface of the brick veneer. OWENS CORNING SPECIALTY & FOAM PRODUCTS 10A. Mortar Drop Protection — (Optional, Not shown) - foamed

plastic with mortar control device attached, continuous, by drainage holes at bottom of air space behind brick veneer. OWENS CORNING SPECIALTY & FOAM PRODUCTS — WeepGuard 10B. Foamed Plastic* — Polyisocyanurate foamed plastic

sulation boards, any thickness, Classified in accordance with BRYX and / or CCVW. May be used with any exterior facing shown under items 5a, 5c, 5d and 5e. THE DOW CHEMICAL CO — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel and Thermax Heavy Duty Plus (HDP) HUNTER PANELS — Type Xci-Class A

. Cementitious Backer Units* — (Optional Item Not Shown -For Use On Face Of 1 Hr Or 2 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide .- Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing. 2-Hr System - Applied vertically with vertical joints entered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

*Bearing the UL Classification Mark

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11/20/15



BUILDING CODE DATA



DRAWING INDEX

- T1 BUILDING CODE SUMMARY, UL ASSEMBLY & DRAWING INDEX
- T2 EGRESS DIAGRAM AND ACCESSIBILITY NOTES
- A1 FLOOR PLAN & REFLECTED CEILING PLAN
- P1 PLUMBING PLAN AND DETAILS
- M1 HVAC PLAN AND DETAILS
- E1.1 LIGHTING PLAN AND DETAILS
- E1.2 POWER PLAN AND DETAILS
- FA1.1 FIRE ALARM PLAN AND DETAILS

ACCESSIBILITY SUMMARY

THE FOLLOWING ARE PERFORMANCE SPECIFICATIONS FOR ADHERENCE TO CHAPTERS 10, 11, AND 34 OF THE 2012 NORTH CAROLINA STATE BUILDING CODE (NCSBC) AND ADHERENCE TO SECTION A117.1 OF THE 2009 INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE . REFER TO THE BUILDING ACCESSIBILITY SUMMARY AND DRAWINGS FOR APPLICABILITY OF EACH SECTION AS WELL AS SPECIFIC DESIGN REQUIREMENTS.

2012 NCSBC

CHAPTER 10 - MEANS OF EGRESS

THE REQUIREMENTS OF THIS CODE ARE APPLICABLE FOR THIS PROJECT AND OCCUPANCY CLASSIFICATION. SEE SECTION 1002 FOR DEFINITIONS REGARDING THE MEANS OF EGRESS. REFER TO BUILDING CODE SUMMARY FOR OCCUPANT LOADS. SEE DRAWINGS FOR DESIGN AND DIMENSIONING OF MEANS OF EGRESS. WALKING SURFACES OF THE MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE AND BE SECURELY ATTACHED.

SECTION 1007 - ACCESSIBLE MEANS OF EGRESS SEE DRAWINGS FOR DESIGN & DIMENSIONS IN THESE SPECIFICATIONS. OF ACCESSIBLE MEANS OF EGRESS, INCLUDING ONE OR MORE OF THE FOLLOWING: ACCESSIBLE ROUTES, EXIT STAIRWAYS, ACCESSIBLE ELEVATORS, PLATFORM LIFTS, HORIZONTAL EXITS, RAMPS, AND AREAS OF REFUGE. WHERE ELEVATORS ARE REQUIRED AS A MEANS OF EGRESS, THEY SHALL COMPLY TO SECTION 1007.4. PLATFORM LIFTS MUST COMPLY TO SECTION 1007.5.

1007.6.2 SEPARATION. Each area of refuge shall be separated from the remainder of the story by a smoke barrier complying with Section 710 or a horizontal exit complying with Section 1025. Each area of refuge shall SECTION 1105 - ACCESSIBLE ENTRANCES SEE DRAWINGS FOR LOCA be designed to minimize the intrusion of smoke. EXCEPTION: Areas of refuge located within a vertical exit enclosure.

1007.6.3 TWO-WAY COMMUNICATION. Areas of refuge shall be provided with a two-way communication FOR LOCATIONS AND DESIGN OF PARKING SPACES AND PASSENGER L system complying with Sections 1007.8.1 and 1007.8.2.

1007.8.1 SYSTEM REQUIREMENTS. Two-way communication systems shall provide communication between each required location and the fire command center or central control point location approved by the fire department. Where the central control point is not constantly attended, a two-way communication system shall have a timed automatic telephone dial-out capability to a monitoring location or 911. The two-way communication system shall include both audible and visible signals.

1007.8.2 DIRECTIONS. Directions for the use of the two-way communication system, instructions for summoning assistance via the two-way communication system and written identification of the location shall be posted adjacent to the two-way communication system.

1007.9 SIGNAGE. Signage indicating special accessibility provisions shall be provided as shown: 1. Each door providing access to an area of refuge from an adjacent floor area shall be identified by a sign

- stating: AREA OF REFUGE 2. Each door providing access to an exterior area for assisted rescue shall be identified by a sign
- stating: EXTERIOR AREA FOR ASSISTED RESCUE. Signage shall comply with the ICC A117.1 requirements for visual characters and include the
- International Symbol of Accessibility. Where exit sign illumination is required by Section 1011.2, the signs shall be illuminated. Additionally, tactile signage complying with ICC A117.1 shall be located at each door to an area of refuge and exterior area for assisted rescue in accordance with Section 1011.3.

1007.10 DIRECTIONAL SIGNAGE. Direction signage indicating the location of the other means of egress and which are accessible means of egress shall be provided at the following: 1. At exits serving a required accessible space but not providing an approved accessible means of

- 2. At elevator landings.
- 3. Within areas of refuge.

1007.11 INSTRUCTIONS. In areas of refuge and exterior areas for assisted rescue,

- of the area under emergency conditions shall be posted. The instructions shall include 1. Persons able to use the exit stairway do so as soon as possible, unless they 2. Information on planned availability of assistance in the use of stairs or sup
- operation of elevators and how to summon such assistance. 3. Directions for use of the two-way communications system where provided

SEE DRAWINGS FOR DESIGN OF ANY REQUIRED EXTERIOR AREAS FOR THESE AREAS SHALL HAVE IDENTIFICATION AS REQUIRED FOR AREA COMPLI9ES WITH SECTION 1007.9.

CHAPTER 11 - ACCESSIBILITY

SECTION 1101 - SCOPE AND DESIGN THE REQUIREMENTS OF THIS CO FOR THIS PROJECT AND OCCUPANCY CLASSIFICATION.

SECTION 1102 - DEFINITIONS SEE NCSBC SECTION 1102 & ANSI 117.1.1

SECTION 1103 - SCOPING REQUIREMENTS SEE NCSBC SECTION 1103 ACCESSIBILITY REQUIREMENTS.

SECTION 1104 - ACCESSIBLE ROUTE SEE SITE DRAWINGS FOR DESIGN ACCESSIBILITY. SEE DRAWINGS FOR ALLOCATION OF INTERIOR ACCE

OF ACCESSIBLE ENTRANCES.

SECTION 1106 - PARKING AND PASSENGER LOADING FACILITIES SE

SECTION 1107 - DWELLING UNITS AND SLEEPING UNITS THIS SECTION TO THIS PROJECT.

SECTION 1108 - SPECIAL OCCUPANCIES THIS SECTION DOES NOT AP PROJECT.

SECTION 1109 - OTHER FEATURES AND FACILITIES SEE DRAWINGS DESIGN OF ACCESSIBLE PLUMBING FIXTURES, ELEVATORS, LIFTS AND

SECTION 1110 - SIGNAGE

- 1110.1 SIGNS. Required accessible elements shall be identified by the International
- at the following locations: 1. Accessible parking spaces required by Section 1106.1. Location and design comply with the requirements of North Carolina General Statute 20-37.6 and Manual on Uniform Traffic Control Devices.
 - 2. Accessible passenger loading zones. 3. Accessible rooms where multiple singe-user toilet or bathing rooms are clu
 - location. 4. Accessible entrances where not all entrances are accessible. 5. Accessible check-out aisles where not all aisles are accessible. The sign,
 - above the check-out aisle in the same location as the check-out aisle number or type of check-out identification.
 - 6. Family or assisted toilet and bathing rooms.
 - 7. Accessible dressing, fitting and locker rooms where not all such rooms are accessible. 8. Accessible areas of refuge in accordance with Section 1007.9
 - 9. Exterior areas for assisted rescue in accordance



, instructions on the use	1110.2 DIRECTIONAL SIGNAGE. Directional signage indication the route to the nearest like accessible	E107.3 I
de all of the following:	element shall be provided at the following locations. These directional signs shall include the International	about, pe
are assisting others.	Symbol of Accessibility:	A117.1.
pervised	1. Inaccessible building entrances.	Excep
	2. Inaccessible public toilets and bathing facilities.	temporar
d.	3. Elevators not serving an accessible rout.	E107.4 (
	4. At each separate-sex toilet and bathing room indicating the location of the nearest family or	1.
	assisted-use toilet or bathing room where provided in accordance with Section 1109.2.1.	2.
ASSISTED RESCUE.	5. At exits and exit stairways serving a required accessible space, but not providing an	through I
OF REFUGE THAT	approved accessible means of egress, signage shall be provided in accordance with Section 1007.10.	3.
	1110.3 OTHER SIGNS. Signage indicating special accessibility provisions shall be provided as shown:	
	1. Each assembly area required to comply with Section 1108.2.7 shall provide a sign	E108 - B
	notifying patrons of the availability of assistive listening systems.	
	Exception: Where ticket offices or windows are provided, signs are not required at	E109 - T
	each assembly area provided that signs are displayed at each ticket office or window informing	THIS PR
DE ARE APPLICABLE	patrons of the availability of assistive listening systems.	
	2. At each door to an area of refuge, an exterior area for assisted rescue, an egress stairway, exit	E110 - A
	passageway and exit discharge, signage shall be provided in accordance with Section 1011.3.	
06 FOR WORDS USED	3 At areas of refuge, signage shall be provided in accordance with Sections 1007.11	
	4 At areas for assisted rescue, signage shall be provided in accordance with Section 1007.11	2009 1
	5. At two-way communication systems, signage shall be provided in accordance with Section	20071
FOR EXCEPTIONS TO	1007 8 2	СПАРТ
	6 Within avit anglosures, signage shall be provided in accordance with Section 1022.8	
	0. Within exit enclosures, signage shall be provided in accordance with Section 1022.8.	
N OF SITE	CHAPTER 34 - EXISTING STRUCTURES	SPECIFI
ESSIBLE ROUTE.		CHAPT
TIONS AND DESIGN	3411 - ACCESSIBILITY FOR EXISTING BUILDINGS SEE DRAWINGS FOR INCORPORATION OF ANY REQUIRED COMPLIANCE FOR ACCESSIBILITY.	ARE AP
		CHAPT
	APPENDIX E - SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS	DESIGN
EE SITE DRAWINGS		KNEE A
OADING FACILITIES.	E103 - ACCESSIBLE ROUTE SEE DRAWINGS FOR DESIGN AND DIMENSIONS OF ANY RAISED	SURFAC
	PLATFORMS	SECTIO
ON DOES NOT APPLY		SPACE (
	E104 - SPECIAL OCCUPANCIES THIS SECTION DOES NOT APPLY TO THIS PROJECT.	REACH
		NOT RE
PLY TO THIS	E105 - OTHER FEATURES AND FACILITIES ALL PORTABLE TOILETS AND BATHING	REQUIR
	ROOMS, LAUNDRY EQUIPMENT, VENDING MACHINES, MAILBOXES, ATM's, AND TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH SECTION E105.	CIRCUL
FOR LOCATIONS AND		CHAPT
D STORAGE.	E106 - TELEPHONES WHERE TELEPHONES ARE PROVIDED, ACCESSIBLE TELEPHONES	DIMENS
	SHALL BE PROVIDED ACCORDING TO SECTION E106.	RAMPS,
		BE STER
Symbol of Accessiblity	E107 - SIGNAGE	RUNS S
	E107.1 SIGNS. Required accessible portable toilets and bathing facilities shall be identified by the	MANEU
gn of signage shall	International Symbol of Accessibility.	LANDIN
136-30 and the NCDOT	E107.2 DESIGNATIONS. Interior and exterior signs identifying permanent rooms and spaces shall be	SECTIO
	tactile. Where pictograms are provided as designations of interior rooms and spaces, the pictograms shall	DOOR S
	have tactile text descriptors. Signs required to provide tactile characters and pictograms shall comply with	LITES S
ustered at a single	ICC A117.1.	GATES S
	Exceptions:	WITH SI
	1. Exterior signs that are not located at the door to the space they serve are not required to comply.	ELEVAT
where provided, shall be	2. Building directories, menus, seat and row designations in assembly areas, occupant names, building	A17.1 LI

4. Temporary (seven days or less) signs are not required to comply.

5. In detention and correctional facilities, signs not located in public areas are not required to comply.

E109.2.2.3.

OJECT.

ICATIONS.

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CLEAR FLOOR AREAS: (SEE PLAN)

ICC/ANSI 117.1

2009 ICC/ANSI 117.1

A1.2 SCALE: 3/8" = 1'-0"

A. DOOR - 60"x54" CLEAR SPACE AT DOOR FOR FRONT APPROACH PULL

B. SINK – 30"x48" CLEAR SPACE CENTERED ON SINK. SEC. 606 2009

FIG. 604.3, 2003 ICC/ANSI 117.1 FIG. C 803.1, 2009 ICC/ANSI 117.1

SIDE. SEE FIG. 404.2.3.1(A), 2009 ICC/ANSI 117.1

D. TURNING SPACE – CIRCULAR SPACE FIG A. 304.3,

C. TOILET – 60"x60"(56"MIN) CLEAR SPACE.



TYPICAL GRAB BAR LOCATIONS:

- 7. PROVIDE TOILET PAPER DISPENSER CENTERED AT 19" AFF: PAPER TOWEL DISPENSER W/ OPERATING MECHANISM AT 48" MAX & MIN 18"X24" MIRROR W/ BOTTOM EDGE AT 40" MAX AFF.
- AFF. 6. LAVATORIES SHALL HAVE A TOP HEIGHT OF 34" AFF & A MIN CLEAR HEIGHT BELOW OF 27".
- LOAD AT ANY POINT ALONG ITS LENGTH. 5. HANDICAP TOILETS SHALL HAVE A RIM HEIGHT OF 17" TO 19"
- 4. PROVIDE ALL NECESSARY BLOCKING FOR GRAB BARS. GRAB BARS & FASTENERS TO BE CAPABLE OF SUPPORTING A 250 LB.
- 3. GRAB BARS TO HAVE CONCEALED FASTENERS WITH BAR DIAMETER TO BE 1-1/4" TO 1-1/2" W/ 1-1/2" HAND CLEARANCE FROM FACE OF BAR TO WALL FINISH SURFACE.
- CORNER AT 34" AFF.

- 2. SIDE WALL GRAB BAR TO BE 42" LONG & 12" FROM WALL

- CORNER AT 34" AFF





11'-1"









Do	or Schedule												
#	Name	Туре	Size	Door Material	Door Finish	Frame	Frame Finish	Rating	Hardware	Closer	Bumper	Kick Plate	Notes
100	Reception	2	3'-0"x7'-0"	wood & glass	stain	НМ	painted	по	lever	yes	wall	no	
101	Office 1	1	3'-0"x7'-0"	wood	stain	НМ	painted	по	lever	по	wall	по	
102	Office 2	1	3'-0"x7'-0"	wood	stain	НM	painted	по	lever	ПО	wall	ПО	
103	Office 3	1	3'-0"x7'-0"	wood	stain	ΗМ	painted	по	lever	ПО	wall	ΠO	
104	Office 4	1	3'-0"x7'-0"	wood	stain	ΗМ	painted	по	lever	по	wall	ΠO	
106	Toilet Room	1	3'-0"x7'-0"	wood	stain	НM	painted	по	lever	по	wall	ΠO	
107	Closet	1	3'-0"x7'-0"	wood	stain	НM	painted	по	lever	по	wall	ПО	
109	Work(cased open'g)	n/a	6'-0"x7'-0"			НM	painted	по	n/a	по	n/a	по	
ex1	Entry	ex	3'-0"x7'-0"	alum/glass	alum	alum	alum	no	exist	yes	n/a	ΠΟ	
ex2	Rear Exit	ex	3'-0"x7'-0"	alum/glass	alum	alum	alum	по	exist	yes	n/a	ПО	





<u>door type 2</u> solid core full lite wood door w/ tempered glass Notes: 1. confirm all hardware, keying, and latches w/owner. 2. confirm all door and frame finishes w/owner. 3. all doors and frames are to include silencers & wall mounted door stops (provide floor mtd. stop where applicable) 4. three hinges per door 5. all frames to be 2" hollow metal (except as noted). frames to be rated where rated door is indicated.

<u>Hardware:</u> 1. confirm styles with owner

<u>door type 1</u> solid core wood door. see schedule for kickplate locations

Door Types owner to select door species

CLG @ 9' CLG @ 26 77 -<u>∽/</u>-----CLG @ 9' CLG @ 9' 0_ \searrow CLG @ 9' O_1 CLG @ 9 CLG @ 9'

2 Reflected Ceiling Plan – Suite 110 A1.1 1/8" = 1'-0"

Light Fixture Legend O D1 recessed fixture HO S-1 wall sconce 2x4 lensed fluorescent



2. all doors stops, closers and hinges to match hardware finish

rated demising wall

5 AI.2

WALL LEG	GEND
	EXISTING EXTERIOR WALL: BRICK VENEER, 1" MIN. AIRSPACE, VAPOR BARRIER, 1/2" SHEATHING, R-15 BATT INSUL., 6" MTL. STUDS, TYP. & INT. GWB
	EXISTING NON-RATED TYPICAL INTERIOR WALL: 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO 9'-6" AFF W/ SOUND BATT INSULATION.
	EXISTING 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/ SOUND BATT INSULATION PER UL-U425.
	NEW 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 1 LAYER 5/8" GWB EACH SIDE; HEIGHT VARIES. EXTEND WALL TIGHT TO FLOOR DECK ABOVE PER UL-U425. ADD SOUND BATT INSULATION.
	NEW NON-RATED TYPICAL INTERIOR WALL: 3–5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO 9'–6" AFF W/ SOUND BATT INSULATION.
	EXISTING WALL TO BE REMOVED



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Plans and Schedules



GENERAL NOTES:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE AND LOCAL PLUMBING AND BUILDING CODES.

2. ALL EXCAVATION, BACKFILL, CUTTING AND PATCHING OF SURFACES BY PLUMBING CONTRACTOR. ALL WORK TO BE PERFORMED SHALL BE COORDINATED WITH GENERAL CONTRACT.

3. PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE. WATER TEST FOR 1 HOUR AT 150 PSI. APPLY 10 FEET OF HYDROSTATIC HEAD TO ALL PARTS OF DRAINAGE SYSTEM. WATER SUPPLY SYSTEM SHALL BE STERILIZED WITH A CHLORINE SOLUTION.

4. PROVIDE SUBMITTAL DATA ON ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE.

5. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS PLUMBING SYSTEM.

6. THE PLUMBING CONTRACTOR SHALL GUARANTEE AND WARRANT FOR A PERIOD OF TWELVE MONTHS AGAINST FAULTY WORKMANSHIP OR MATERIAL.

7. INSTALL PLUMBING SYSTEMS IN ACCORDANCE WITH PLANS WHEREVER POSSIBLE. IF BETTER PIPE ROUTING BECOMES EVIDENT DURING CONSTRUCTION, INSTALL AT LOCATIONS MOST ECONOMICAL AND PRACTICAL. COORDINATE WITH ENGINEER IF NECESSARY.

8. WATER PIPING ABOVE GRADE SHALL BE TYPE L COPPER WITH WROUGHT COPPER FITTINGS. WATER PIPING BELOW GRADE SHALL BE TYPE K SOFT COPPER WITH NO JOINTS BELOW GRADE. ALL JOINTS MADE WITH 95-5 TIN ANTINOMY LEAD FREE SOLDER. VALVES SHALL BE EQUAL TO RED & WHITE WITH SOLDER ENDS. PIPING MAY BE PEX TYPE PLASTIC WITH COPPER CRIMP RINGS IN NON-EXPOSED AND NON-RATED AREAS AS APPROVED BY LOCAL OFFICIALS.

9. WASTE & VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D-2665-87. CEMENT WELDED JOINTS.

10. INSULATION SHALL BE EQUAL TO RUB-TEX FLEXIBLE ELASTOMIC THERMAL INSULATION, BLACK IN COLOR, FLAME SPREAD RATING OF 25 OR LESS AND SMOKE RATING OF 50 OR LESS. COLD AND HOT WATER 1/2". ALL PIPING SHALL BE INSULATED IN AREAS SUBJECT TO FREEZING. PROVIDE SHEET METAL SHIELD BETWEEN INSULATION AND HANGERS. FITTINGS AND VALVE BODIES SHALL BE INSULATED WITH MITERED SECTIONS OF SAME MATERIAL AS PIPING. DO NOT USE PVC ZIP JACKETS. PROVIDE 1" INSULATION ON ALL EXPOSED WASTE PIPING UNDER LAVATORIES.

11. WALL CLEANOUTS SHALL BE JONES CAST BRONZE COUNTERSUNK PLUG AND POLISHED STAINLESS STEEL ROUND ACCESS COVER PLATE. FLOOR CLEANOUTS SHALL BE JONES.

12. THE PLUMBING CONTRACTOR SHALL INCLUDE IN HIS PRICE THE COSTS RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, AND ANY RELATED CHARGES.

13. ESCUTCHEONS AND COVER PLATES ARE REQUIRED FOR FINISHED WALL PENETRATIONS.

14. PROVIDE SHUT-OFF VALVES ON EACH ISOLATED FIXTURE AND EACH GROUP OF FIXTURES IN ACCESSIBLE PLACES AS SHOWN ON PLANS OR AS REQUIRED.

15. A WATTS 909 RPZ WAS PROVIDED FOR BUILDING DURING SHELL CONSTRUCTION PHASE.

FIXTURE SPECIFICATIONS: ALL "OR EQUAL"

P-1 WATER CLOSET(HANDICAPPED): VITREOUS CHINA, BOTTOM OUTLET, FLOOR MOUNTED, CLOSED-COUPLED TANK, ELONGATED BOWL, COMPLETE WITH WATER SAVER TRIM, OPEN SEAT, SUPPLIES, AND STOPS. MANSFIELD 137-16 P-2 LAVATORY: VITREOUS CHINA, WALL HUNG LAVATORY, FRONT OVERFLOW, SOAP DEPRESSIONS, DRILLED FOR 4" CENTER SET, 4" SPOUT, SINGLE LEVER HANDLE, AERATOR, TAILPIECE WITH P-TRAP, AND SUPPLIES AND ESCUTCHEONS. MANSFIELD 2008C WITH MOEN 8884.

P-3 BREAK ROOM SINK: 22 X 19 x 6 STAINLESS STEEL SINK, ELKAY LR-2219 WITH MOEN 8720 FAUCET, 9" SPOUT, SINGLE HANDLE, SIDE SPRAY, AERATOR, TAILPIECE WITH P-TRAP, AND SUPPPLIES AND ESCUTCHEONS.

WH-1 INSTANTANEOUS WATER HEATER: 1500KW ,120V,12.5A, WATER HEATER, TEMPERATURE AND PRESSURE RELIEF VALVE. ARISTON GL4

	PLUMBING PLAN NOTES
TAG	TYPE
$\langle 1 \rangle$	PROVIDE NEW UNDERSINK WATER HEATER(WH-1,2)
$\langle 2 \rangle$	CONNECT NEW SINK($P-3$) TO EXISTING 4" WASTE UNDERSLAB. CONNECT WITH 1/2" WATER TO ABOVE CEILING. PROVIDE NEW 2" VENT TO EXISTING 2"VTR.
$\langle \overline{3} \rangle$	CONNECT NEW WC(P-1) TO EXISTING 4" WASTE UNDERSLAB. CONNECT WITH $1/2$ ". PROVIDE NEW 2" VENT TO EXISTING 2"VTR.
4	CONNECT NEW LAV(P-2) TO EXISTING 4" WASTE UNDERSLAB. CONNECT WITH $1/2$ " WATER. PROVIDE NEW 2" VENT TO EXISTING 2"VTR.
(5)	CONNECT TO EXISTING 3/4" WATER ABOVE CEILING. PROVIDE NEW SHUTOFF VALVE.

<u>LEGEND</u> COLD WATER PIPING _____ · ____ HOT WATER PIPING SANITARY SEWER PIPING VENT PIPING ____ EXIST SANITARY SEWER _____ EXIST COLD WATER PIPING VENT THROUGH ROOF VTR CLEAN OUT CO P-1 PLUMBING FIXTURE AFF ABOVE FINISHED FLOOR \bigcirc CONNECT TO EXIST.

	FIXTURE S	SIZES			
MARK	FIXTURE	WASTE	VENT	CW	
P-1	HC WATER CLOSET	3	2	1/2	
P-2	LAVATORY	2	1 1/2	1/2	
P-3	SINK	2	1 1/2	1/2	
WH-1	WATER HEATER			1/2	

MINIMUM PLUMBING FACILITIES

2280 SQ. FT OFFICE /100 SQ.FT.PER PERSON = 23 PEOPLE 50 % MALES = 12 PEOPLE

50 % FEMALES = 12 PEOPLE

REQUIREMENTS FOR OFFICE SPACE: MALES: 1 WC, 1 LAV

FEMALES: 1 WC, 1 LAV

*SEPARATE FACILITIES ARE NOT REQUIRED FOR LESS THAN 25 OCCUPANTS















- BRICK VENEER, 1" MIN. AIRSPACE, VAPOR BARRIER, 1/2" SHEATHING, R-15 BATT INSUL., 6" MTL. STUDS, TYP. & INT. GWB
- EXISTING NON-RATED INTERIOR WALL TO DECK: 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/ SOUND BATT INSULATION.
- EXISTING 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/ SOUND BATT INSULATION PER UL-U425.
- NEW 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ (2) LAYERS 5/8" GWB EACH SIDE; HEIGHT VARIES. EXTEND WALL TIGHT TO FLOOR DECK ABOVE PER UL-U425. ADD SOUND BATT INSULATION.
- NEW NON-RATED TYPICAL INTERIOR WALL: 3–5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO 9'-6" AFF W/ SOUND BATT INSULATION. □□□□□□ EXISTING WALL TO BE REMOVED



	PLAN NOTES
TAG	TYPE
	VERIFY EXISTING RETURN AIR TRANSFER DUCT AND FIRE DAMPER TO PROTECT PENETRATION OF NEW FIRE RATED WALL. SEE ARCH PLANS FOR FIRE RATED WALL DETAIL.
2	PROVIDE NEW FIRE DAMPER IN 28"X16" RIGID DUCT TO PROTECT PENETRATION OF NEW FIRE RATED WALL. SEE ARCH PLANS FOR FIRE RATED WALL DETAIL.
$\langle \overline{3} \rangle$	PROVIDE NEW FIRE DAMPER IN 6"RD RIGID DUCT TO PROTECT PENETRATION OF NEW FIRE RATED WALL. SEE ARCH PLANS FOR FIRE RATED WALL DETAIL.
4	REUSE EXISTING FTU-4 TO INCLUDE PLENUM, 10KW ELECTRIC HEATER, BALANCING DAMPER, ALL CONTROLS. REUSE EXISTING 10"RD DUCTWORK CONNECTION TO MAIN, REUSE EXISTING 16X12 DUCT. RELOCATE EXISTING DIFFUSERS TO NEW CEILING GRID. PROVIDE NEW FLEX DUCT TO DIFFUSERS. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
5	RELOCATE EXISTING THERMOSTAT
6	RELOCATE EXISTING RETURN GRILLES INTO NEW CEILING GRID.
7	REUSE EXISTING FTU-2 TO INCLUDE PLENUM, 3.5KW ELECTRIC HEATER, BALANCING DAMPER, ALL CONTROLS. REUSE EXISTING 6"RD DUCTWORK CONNECTION TO MAIN, REUSE EXISTING 12"FLEX DUCT. RELOCATE EXISTING DIFFUSERS TO NEW CEILING GRID. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
8	REUSE EXISTING FTU-3 TO INCLUDE PLENUM, 10KW ELECTRIC HEATER, BALANCING DAMPER, ALL CONTROLS. REUSE EXISTING 12"RD DUCTWORK CONNECTION TO MAIN, REUSE EXISTING 16X14 DUCT. RELOCATE EXISTING DIFFUSERS TO NEW CEILING GRID. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
9	PROVIDE NEW SUPPLY DIFFUSERS TO MATCH EXISTING. REUSE EXISTING TAKEOFF FROM MAIN DUCT AND PROVIDE NEW FLEX AS SHOWN. BALANCE AIRFLOWS AS SHOWN FOR NEW LAYOUT.
(10)	PROVIDE NEW EXHAUST FAN FOR TOILET. BROAN L150, 140 CFM, 1.4A, 120V. PROVIDE WITH ROOF CAP, BACKDRAFT DAMPER, AND DISCONNECT.
<11>	PROVIDE NEW RETURN GRILLE TO MATCH EXISTING.

HVAC GENERAL NOTES:

1. ALL DUCT SIZES ARE FREE AREA SIZES. ALLOW FOR INTERNAL INSULATION.

2. ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.

3. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.

4. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.

5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.

6. DUCTWORK AS SHOWN ON THE DRAWINGS IN STRICTLY DIAGRAMMATIC. COORDINATE EXACT LOCATION WITH THE BUILDING STRUCTURE.

7. REPLACE ALL FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.

8. ALL DUCT TO BE CONSTRUCTED OF GALVANIZED STEEL SHEETS, IN ACCORDANCE WITH SMACNA GAGES AND STANDARDS. EXPOSED ROUND SUPPLY SHALL BE FACTORY FABICATED PF 28-GAUGE MIN. WITH SPIRAL LOCKSEAM. ALL DUCTS JOINTS SHALL BE SEALED AIRTIGHT.

9. FLEXBILE DUCT SHALL BE INSULATED, SOUND ATTENUATING, LOW VELOCITY TYPE AND SHALL COMPLY WITH NFPA 90A AND 90B. FLEXIBLE DUCT SHALL BE UL LISTED, CLASS 1 INSULTED TYPE, RATED FOR A MINIMUM OF 4" POSITIVE STATIC AND A MINIMUM OF 1" NEGATIVE STATIC PRESSURE. FLEXIBLE DUCT SHALL BE FACTORY-FORMED, COMPOSED OF SPIRAL WOUND, CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER, COVERED WITH INSULATION WITH A VAPOR BARRIER. INSULATION R-VALUES PER THE NC ENERGY CODE.











ELEC	TRICAL LEGEND
\$	LIGHT SWITCH, MOUNT AT 48" AFF U.N.O.
S_3	THREE-WAY LIGHT SWITCH, MOUNT AT 48" AFF U.N.O.
(((((((((((((((((((DUPLEX OUTLET, MOUNT BOX CENTER AT 14" AFF U.N.O.
$\varphi_{\!E}$	EXISTING DUPLEX OUTLET, MOUNT BOX CENTERTO REMAIN. REWIRE TO CIRCUIT AS SHOWN
$\varphi_{\rm GFI}$	GROUND FAULT INTERUPTED DUPLEX OUTLET, MOUNT BOX CENTER AT 14" AFF U.N.O.
∇	TELEPHONE/DATA/CABLE OUTLET, MOUNT BOX CENTER AT 14" AFF U.N.O. PROVIDE WITH CONDUIT TO CEILING AND 4X4X1–1/2 BOX.
	FLUORESCENT LIGHTING- 2 LAMP-LAY-IN (F32T83500K), TROFFER, 2'x4', CONFIRM LENS TYPE WITH CLIENT, SINGLE- ENERGY SAVINGS BALLAST (120/277V) -PROVIDE WITH DISCONNECT PER NEC 410.74G
0	RECESSED DOWNLIGHT, 5" DIA COMPACT FLUORESCENT LAMP, WHITE BAFFLE, 2–13W LAMPS, ENERGY SAVINGS BALLAST (120/277V) –PROVIDE WITH DISCONNE PER NEC 410.74G
<u> </u>	WALL MOUNTED CFL LIGHT, 1-13W LAMP, ENERGY SAVINGS BALLAST (120/277V)- PROVIDE WITH DISCONNECT PER NEC 410.7 CONFIRM TYPE WITH CLIENT.
\square	EMERGENCY LIGHT, WALL MTD. DUAL HEAD w/90 MIN. STANDBY BATTERY, 12W HALOGEN PAR 36
	EMERGENCY/EXIT LIGHT, CEILING MTD. DUAL HEAD w/90 MIN. STANDBY BATTERY, 12W HALOGEN PAR 36
os	CEILING MOUNTED OCCUPANCY SENSOR
NL	NIGHT LIGHT TO REMAIN ON AT ALL TIMES
	EXHAUST FAN. REFER TO MECH. DWGS
$\Box \downarrow$	DISCONNECT SWITCH
	RECESSED ELECTRICAL PANEL
/	SWITCHED CIRCUIT
	UNSWITCHED CIRCUIT
"#"	HT. TO MIDDLE OF JUNCTION BOX
A.F.F.	ABOVE FINISHED FLOOR
B.F.C.	BELOW FINISHED CEILING
	NOTE: ALL ELECTRICAL INCLUDING LIGHT FIXTURES TO BE VERIFIED WITH OWNER/BUILDER PRIOR TO ROUGH-IN

. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE T. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE OPERABLE ELECTRICAL DISTRIBUTION SYSTEM. ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES. ELECTRICAL CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CODE CONFLICTS IN WRITING PRIOR TO RECEIPT OF BIDS.

ELECTRICAL NOTES:

2. THIS CONTRACT INCLUDES COMPLETE SERVICE FROM UTILITY POINT OF DELIVERY. ALL EQUIPMENT TO BE SERVICE ENTRY RATED AND LABELED, UNLESS OTHERWISE INDICATED. ALL EQUIPMENT TO BE RATED FOR EXPECTED MAXIMUM AIC FAULT CURRENT. 3. THIS CONTRACT INCLUDES ALL NECESSARY PERMIT FEES AND TAX.

4. THIS CONTRACT INCLUDES COMPLETE ONE-YEAR WARRANTY ON ALL MATERIAL AND WORKMANSHIP FROM DATE OF COMPLETION. 5. FEEDERS TO PANELS ARE TO BE RUN IN EMT WHERE OVERHEAD

OR SCHEDULE 40 PVC WHERE UNDERGROUND OR UNDERSLAB. GROUNDING ELECTRODE IN RIGID METALLIC CONDUIT.

6. SERVICE CONDUCTORS AND FEEDERS TO BE THWN OR THHN COPPER. ALL WIRE TERMINATIONS AND EQUIPMENT TO BE RATED FOR 75 DEGREE C WIRE. 7. BRANCH CIRCUITS TO BE THHN /THWN RUN IN EMT CONDUIT, EXCEPT WIRING IN FLUORESCENT CHANNELS TO BE THHN COPPER. NO ALUMINUM BRANCH CIRCUITS WILL BE ACCEPTED.

8. MAXIMUM WATTAGE OF FLUORESCENT OR INCANDESCENT LIGHTING PER 120V, 20A BRANCH CIRCUIT-1800 WATTS. MAXIMUM NUMBER OF 120V RECEPTACLES PER 20A CIRCUIT-EIGHT. MINIMUM BRANCH CIRCUIT SIZE- #12 COPPER. ALL FLUORESCENT FIXTURES TO HAVE ELECTRONIC OR 90% POWER FACTOR BALLASTS AND T-8 TUBES. ALL DESIGNATED RECEPTACLES TO BE ON SEPARATE BRANCH CIRCUITS.

9. IN ALL INSTANCES, WIRE CAPACITIES AND DEVICE RATINGS ARE TO EQUAL OR EXCEED BREAKER OR FUSE RATINGS. 10. PER NEC 517.45, NO RECUSSITATION EQUIPMENT IS REQUIRED.

11. FUSED DISCONNECTS ARE REQUIRED FOR MULTI-MOTOR CONDENSING UNITS AND PACKAGED UNITS. 12. PROVIDE A 120V W/P GFI SERVICING RECEPTACLE WITHIN 15 FEET OF HVAC EQUIPMENT. INCLUDE PULL LIGHT IN ATTIC SPACE IF NOT PROVIDED DURING SHELL CONSTRUCTION.

13. PROVIDE GFI RECEPTACLES IN RESTROOMS, OUTDOORS AND ALSO AS REQUIRED BY N.E.C. AND N.C. BUILDING CODE. SHALL BE CONNECTED AT END OF CIRCUIT OR SO THAT THEIR OPERATION DOES NOT EFFECT DOWNSTREAM DEVICES. 14. DO NOT INSTALL ANY ELECTRICAL EQUIPMENT, ACCESSORIES, OR FIXTURES WITHOUT PROPER CODE-REQUIRED CLEARANCES OR WITHOUT MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.

15. ALL PENETRATIONS IN FIRE RATED ASSEMBLIES TO BE SEALED AS SHOWN ON RATED DETAILS. 16. GROUNDING CONDUCTOR AT MAIN SWITCHGEAR SHALL BE CONNECTED TO EQUIPMENT GROUNDING CONDUCTOR USING A BONDING JUMPER, SIZED PER N.E.C. TABLE 250-94.

17. RECEPT. ON OPPOSITE SIDES OF RATED WALL SHALL BE SPACED A MINIMUM OF 24" OF HORIZONTAL SEPARATION. 18. PROVIDE EXIT LIGHTS AS REQUIRED OR AS SHOWN ON DRAWINGS. CONNECT TO LOCAL LIGHTING CIRCUIT BEFORE THE SWITCHING.

RECOMMENDATIONS AND NC ENERGY CODE 805.2.2. OMIT CONTROLS IN CORRIDOR, CLOSETS, AND TOILETS.

19. PROVIDE EMERGENCY LIGHTS AS REQUIRED OR AS SHOWN ON DRAWINGS. CONNECT TO LOCAL LIGHTING CIRCUIT BEFORE THE SWITCHING. 20. EXTERIOR LIGHTING PROVIDED IN SHELL BUILDING. EMERGENCY LIGHTING INCLUDED 90 MIN POWER CAL BATTERY AT FRONT REQUIRED ENTRANCS. 21. PROVIDE OCCUPANCY MOTION DETECTOR SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

Prescriptive 🛛 Performance 🗌 Energy Cost Budget 🗌

Provide a standard riser diagram which indicates designated point for check metering. None Required.

Provide a standard panel schedule description which identifies different end-use loads. See Plans

Lighting Schedule lamp type required in fixture – See Legend number of lamps in fixture - See Legend ballast type used in the fixture — See Legend number of ballasts in fixture - See Legend total wattage per fixture — See Legend total interior wattage specified vs. allowed restrooms (52SF) – allowed - .84 W/sq.ft. specified – .75 W/sq.ft. OPEN OFFICES (10816SF) allowed - .98 W/sq.ft. specified - .71 W/sq.ft. CLOSED OFFICES (616.8SF) allowed - 1.11 W/sq.ft. specified – .83 W/sq.ft. HALL (443.4 SF) allowed - .65 W/sq.ft. specified - .36 W/sq.ft. BREAK (70 SF) allowed - .99 W/sq.ft. specified - .92 W/sq.ft.

RECEP (176.1 SF) allowed - 1.29 W/sq.ft. specified - .45 W/sq.ft.

total exterior lighting-

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrcial system and equipment requirements of the North Carolina State Building Code, Energy.

SIGNED: Eljaburh D. Van Moorat

NAME: Elizabeth D.Van Noordt, P.E. TITLE: Professional Engineer



PROVIDED DURING SHELL CONSTRUCTION

WALL LEGEND BRICK VENEER, 1" MIN. AIRSPACE, VAPOR BARRIER, 1/2" SHEATHING, R-15 BATT INSUL., 6" MTL. STUDS, TYP. & INT. GWB EXISTING NON-RATED INTERIOR WALL TO DECK:

SOUND BATT INSULATION. EXISTING 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/ SOUND BATT INSULATION PER UL-U425. NEW 1-HR RATED FIRE PARTITION (TENANT DEMISING WALL): 3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ (2) LAYERS 5/8" GWB EACH SIDE; HEIGHT VARIES. EXTEND WALL TIGHT TO FLOOR DECK ABOVE PER UL-U425. ADD SOUND BATT INSULATION. NEW NON-RATED TYPICAL INTERIOR WALL: 3–5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO 9'-6" AFF W/ SOUND BATT INSULATION.

3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ 5/8" GWB EACH SIDE TO DECK W/



I FLOOR PLAN - SUITE IIO EI.I 1/8" = 1'-0"



NOTE: ELECTRICAL SERVICE IS EXISTING INCLUDING ALL PANELS AND CIRCUITS. NO CHANGES ARE REQUIRED EXCEPT MODIFICATIONS TO THE PANEL AS SHOWN WITH NEW HOMERUN BRANCH CIRCUITS. ALL EXISTING PANEL LOAD CALCULATIONS ARE BASED ON PREVIOUS ENGINEERED DRAWINGS DATED 2012. NEW DEMAND LOADS ARE WITHIN CAPACITY OF EXISTING PANELS.



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EQUIP @100% 2.0 2.0 **NOTES: TOTAL DEMAND LOAD SERVED EXISTING CIRCUIT EXISTING CIRCUI EXISTING CIRCUIT EXISTING CIRCUIT

EXISTING CIRCUIT DEMAND LOAD LIGHTING @125% EQUIP @100% TOTAL DEMAND

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 L1 SECTION 3 OF 3 36 6.36 * - EXISTING PANEL BOARD AND CIRCUIT BREAKERS ARE SERIES RATED FOR 10K NOTES

6.36 1- NO CHANGES TO THIS PANEL

SUITE SUITE 100 110 _____ ____





or Completion Sprint Commerce Z \vdash $\boldsymbol{\mathcal{N}}$ $[\mathbf{T}]$ FOR ritage Suite Interior Herita KE N 608 9/24/15 (T) K DT 0 -0860 SUITE 829 CHITE r street, 3 NC 27601 FAX. 919-8 ' HARGETT RALEIGH,] -829-4969] Ξ AR URER \mathbf{R} AST 919<mark>-</mark> Щ TEL S S — Ξ DATE 09-24-15 MSM DR. CH DSM PROJ. # 15085.1 REVISIONS DATE __/__ POWER PLAN AND DETAILS E1.2

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FIRE ALARM WORK INCLUDES PROVIDING 1 NEW HORN/STROBES WITH CONNECTION TO EXISTING FIRE ALARM SYSTEM. ALL OTHER DEVICES ARE EXISTING AND TO REMAIN AS IS OR RELOCATED AS SHOWN.

FII	re alarm legend
FACP	EXISTING FIRE ALARM PANEL
	EXISTING ANNUNICIATUR
LF ⊠ N	NEW HORN/STROBE CANDELA INDICATED
F d E	EXISTING HORN/STROBE CANDELA INDICATED

FIRE ALARM NOTES:

1. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE OPERABLE FIRE ALARM SYSTEM. ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CODE CONFLICTS IN WRITING PRIOR TO RECEIPT OF BIDS.

2. THIS CONTRACT INCLUDES CONNECTING NEW DEVICES, WIRING, CONDUIT TO EXISTING "ADDRESSABLE" FIRE ALRAM SYSTEM. PROVIDE SHOP DRAWINGS AND PRODUCT DATA SHEETS FOR ALL EQUIPMENT.

3. THIS CONTRACT INCLUDES ALL NECESSARY PERMIT FEES AND TAX.

4. THIS CONTRACT INCLUDES COMPLETE ONE-YEAR WARRANTY ON ALL MATERIAL AND WORKMANSHIP FROM DATE OF COMPLETION. INCLUDE OPERATING AND MAINTENANCE INSTRUCTIONS.

5. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, WIRING, OUTLET BOXES, JUNCTION BOXES AND SIMILAR DEVICES AS REQUIRED. WIRING SHALL BE AS SPECIFIED ON ELECTRICAL DRAWINGS AND OF TYPE RECOMMENDED BY THE NFPA, APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION FOR THE PURPOSE, AND PER MANUFACTURER'S RECOMMENDATIONS.

7. THE SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA-72 BY THE CONTRACTOR. CERTIFICATION OF APPROVAL SHALL THEN BE SUBMITTED IN WRITING.

8. ALL PENETRATIONS IN FIRE RATED ASSEMBLIES TO BE SEALED AS SHOWN ON RATED DETAILS.

9. ALL COMPONENTS SHALL BE COMPATIBLE. PROVIDE ALL NECESSARY CONTROL WIRING AND CONDUIT PER MANUFACTURER'S REQUIREMENTS.

10. ALL DEVICES/SUBMITTALS SHALL BE APPROVED BY FIRE MARSHALL PRIOR TO ORDERING/INSTALLATION.

11. UPGRADE EXISTING BATTERY SUPPLIES PER NFPA 72 AS NECESSARY TO ACCOMMODATE DEVICES INDICATED.

12 . HORN/STROBE: PROVIDE ELECTRONIC HORN/STROBES WITH A RED PLASTIC HOUSING. A SOUND LEVEL OF 91 DBA AVERAGE SHALL BE PROVIDED. THE STROBE SHALL PROVIDE SYNCHRONIZED FLASH OUTPUTS WITH CANDELA RATING AS INDICATED. THE STROBE SHALL HAVE LENS MARKINGS ORIENTED FOR WALL MOUNTING. HORN/STROBE SHALL MOUNT TO A 1-GANG ELECTRICAL BOX (2-1/2" DEEP).

FIRE ALARM SYSTEM									SYSTEM OUTPUTS																
INPUT/OUTPUT MATRIX										E	FAC	PAN	NUN	CIAT	ON	Ţ	NC	TIFI	CAT	ON	Ţ	, 1	REQUI	RED FI	RE SAFETY CONTROL
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3 OPEN CIRCUIT		-	1			•					-		-	1	1									3	
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I FLOOR PLAN - SUITE 110 FAI.I 1/8" = 1'-0"



