

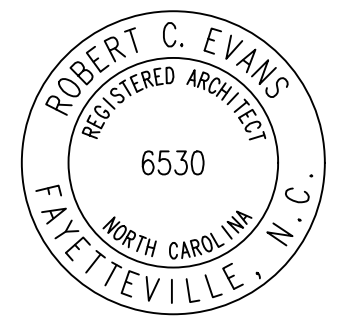
01 VICINITY MAP
NO SCALE

A NEW BUILDING FOR:

Northgate Therapy

NORTHGATE - LOT 5C
CAMERON, NORTH CAROLINA

ROBERT CHARLES EVANS
ARCHITECT
ARCHITECTURE
545 Pearl Street Fayetteville, North Carolina 28303



10.22.21

A0.1

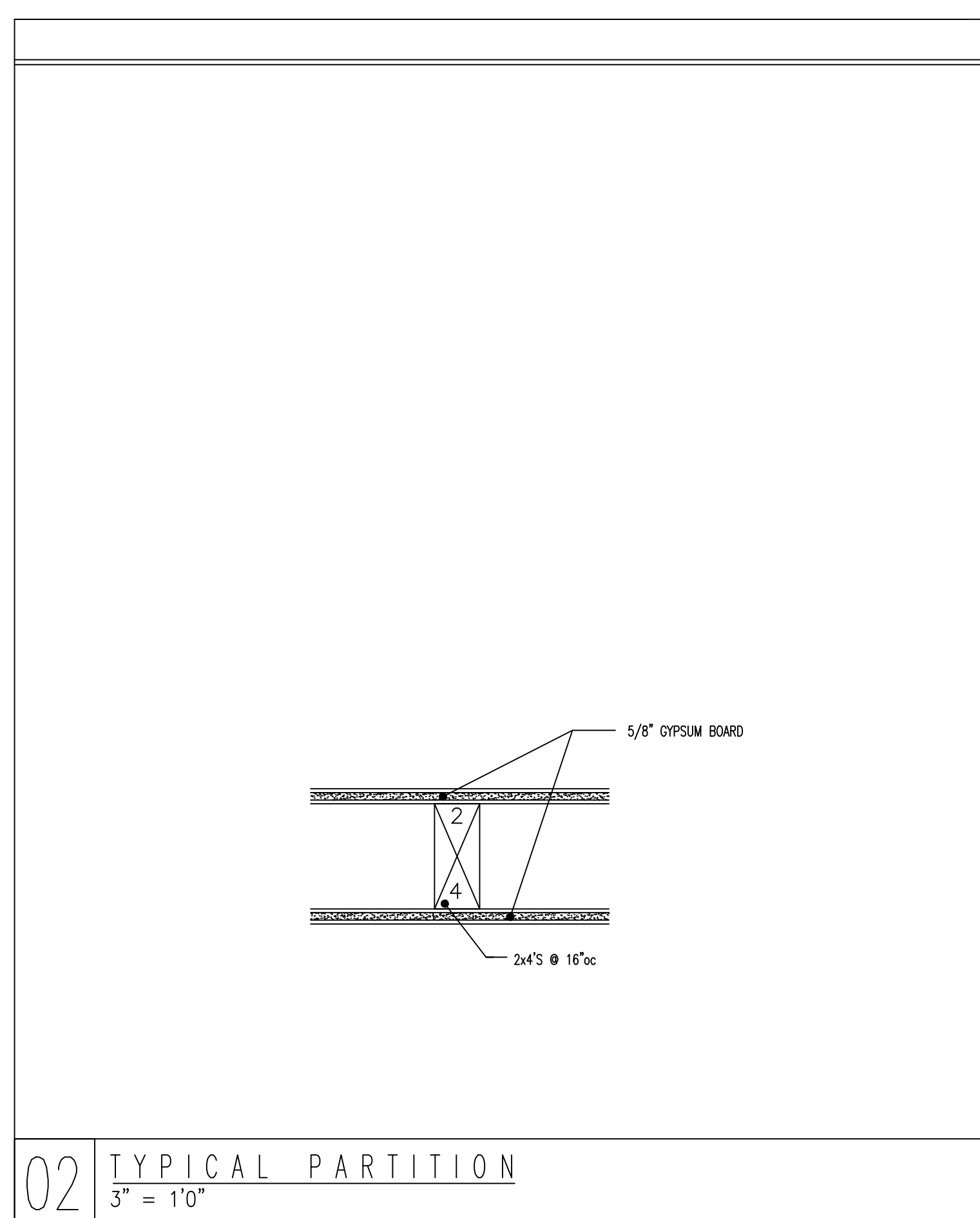
MATERIAL LEGEND			
CONCRETE		BATT INSULATION	
EARTH		STEEL	
WOOD FRAMING		CONCRETE BLOCK	
WOOD TRIM		BRICK	
PLYWOOD		GYPSUM BOARD	
CARPET		CAULKING	

CONSULTANTS	

DRAWING SYMBOLS	
	clubroom
	ROOM NAME & FINISH SCHEDULE
	WINDOW SCHEDULE
	DOOR SCHEDULE
	INTERIOR ELEVATION

DRAWING LIST	
ARCHITECTURAL	
A0.1	PROJECT INFORMATION
A0.2	APPENDIX B
A1.1	FLOOR PLAN
A1.2	LIFE SAFETY PLAN
A2.1	ELEVATIONS
A2.2	ELEVATIONS
A3.1	SECTIONS / DETAILS
A4.1	FOUNDATION PLAN

GENERAL NOTES	ABBREVIATIONS																																														
<ol style="list-style-type: none"> ALL WORK ON THIS APPLICATION SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES, LATEST AMENDMENTS. THE CONTRACTOR SHALL REFER TO DIMENSIONS AND SHALL NOT SCALE THESE DRAWINGS. ALL DIMENSIONS ARE SHOWN TO THE FACE OF ROUGH EXCEPT WHERE NOTED OTHERWISE. NO LOADS SHALL BE APPLIED TO SUSPENDED CEILINGS. THE CONTRACTOR SHALL PROVIDE BLOODING, GROUNDS, ETC. FOR FIXTURES, SHELVING, TRIM, GYPSUM BOARD, CEILING, PLUMBING FIXTURES, ETC. WHERE THEY ARE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS PRIOR TO PROCEEDING WITH ANY WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER IN WRITING IMMEDIATELY. 	<table> <tr> <td>ALUM. - Aluminum</td> <td>INSUL. - Insulation</td> </tr> <tr> <td>ARCH. - Architectural</td> <td>L. - Lines</td> </tr> <tr> <td>BD. - Board</td> <td>MFR. - Manufacturer</td> </tr> <tr> <td>BM. - Beam</td> <td>MR. - Microwave</td> </tr> <tr> <td>CL. - Centerline</td> <td>O.C. - On Center</td> </tr> <tr> <td>C.G. - Ceiling</td> <td>OPP. - Opposite</td> </tr> <tr> <td>COL. - Column</td> <td>PLWD. - Plywood</td> </tr> <tr> <td>CONC. - Concrete</td> <td>Q. - Query</td> </tr> <tr> <td>CONT. - Conditious</td> <td>R. - Rod</td> </tr> <tr> <td>DM. - Dimension</td> <td>REQD. - Required</td> </tr> <tr> <td>DISP. - Disposal</td> <td>REGR. - Refrigerator</td> </tr> <tr> <td>DN. - Down</td> <td>R/O - Rough Opening</td> </tr> <tr> <td>D.S. - Downspout</td> <td>R/O - Rough Opening</td> </tr> <tr> <td>DN. - Downspout</td> <td>R/O - Rough Opening</td> </tr> <tr> <td>EA. - Each</td> <td>S. - Shelf</td> </tr> <tr> <td>EQ. - Equal</td> <td>S.F. - Square Feet</td> </tr> <tr> <td>FF. - Finish Floor</td> <td>S.F. - Similar</td> </tr> <tr> <td>FIN. - Finish</td> <td>T.O. - Top Of</td> </tr> <tr> <td>G.C. - General Contractor</td> <td>TOP. - Typical</td> </tr> <tr> <td>GYP. - Gypsum Board</td> <td>V. - Volt</td> </tr> <tr> <td>HD. - Hand</td> <td>W. - With</td> </tr> <tr> <td>HDR. - Header</td> <td>WD. - Wood</td> </tr> <tr> <td>HR. - Hour</td> <td>W.H. - Water Heater</td> </tr> </table>	ALUM. - Aluminum	INSUL. - Insulation	ARCH. - Architectural	L. - Lines	BD. - Board	MFR. - Manufacturer	BM. - Beam	MR. - Microwave	CL. - Centerline	O.C. - On Center	C.G. - Ceiling	OPP. - Opposite	COL. - Column	PLWD. - Plywood	CONC. - Concrete	Q. - Query	CONT. - Conditious	R. - Rod	DM. - Dimension	REQD. - Required	DISP. - Disposal	REGR. - Refrigerator	DN. - Down	R/O - Rough Opening	D.S. - Downspout	R/O - Rough Opening	DN. - Downspout	R/O - Rough Opening	EA. - Each	S. - Shelf	EQ. - Equal	S.F. - Square Feet	FF. - Finish Floor	S.F. - Similar	FIN. - Finish	T.O. - Top Of	G.C. - General Contractor	TOP. - Typical	GYP. - Gypsum Board	V. - Volt	HD. - Hand	W. - With	HDR. - Header	WD. - Wood	HR. - Hour	W.H. - Water Heater
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02 TYPICAL PARTITION
3" = 1'0"

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

Reviewed for Code Compliance

11/08/2021

There are code compliance notes throughout this plan. It is only approved if these notes are followed.

NORTH CAROLINA BUILDING CODE SUMMARY - NC 2018 BUILDING CODE

NAME OF PROJECT: A NEW BUILDING FOR: NORTHGATE THERAPY
 PROJECT ADDRESS: NORTHGATE LOT 5C, CAMERON, NORTH CAROLINA
 OWNER / CONTACT: NED JOHNSON
 PHONE #: TELEPHONE: 910.323.1944
 EMAIL: nedjohnson@nortstehomesnc.com
 OWNED BY: PRIVATE CITY/COUNTY STATE
 CODE ENFORCEMENT: CITY COUNTY STATE

DESIGN PROFESSIONALS

CONTACT:	FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL
DESIGNER	ROBERT C. EVANS, ARCHITECT	ROBERT C. EVANS	6530	910.624.9259	rcearch@gmail.com
ARCHITECTURAL CIVIL	NO WORK				
ELECTRICAL	NO WORK				
FIRE ALARM	NO WORK				
PLUMBING	NO WORK				
MECHANICAL	NO WORK				
SPRINKLER	NO WORK				
STRUCTURAL	NO WORK				
RETAINING WALL	NO WORK				
OTHER	NO WORK				

BUILDING CODE DATA

2018 NC BUILDING CODE: NEW BUILDING ADDITION RENOVATION
 FIRST TIME INTERIOR COMPLETION
 SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
 PHASED CONSTRUCTION - SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

2018 NC EXISTING BUILDING CODE: EXISTING: PRESCRIPTIVE REPAIR CHAPTER 14
 ALTERATION: LEVEL I LEVEL II LEVEL III
 HISTORIC PROPERTY CHANGE OF USE

CONSTRUCTED: (date) N/A CURRENT OCCUPANCY: N/A
 RENOVATED: (date) N/A PROPOSED OCCUPANCY: BUSINESS

RISK CATEGORY: (table 1004.5) CURRENT: I II III IV
 PROPOSED: I II III IV

BASIC BUILDING DATA

CONSTRUCTION TYPE: I-A II-A III-A IV-A V-A
 I-B II-B III-B V-B

SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 130
 STANDPIPES: NO YES CLASS I II III WET DRY
 FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES

BUILDING HEIGHT: 21'-10" FEET NUMBER OF STORES: 1 UNLIMITED PER _____

MEZZANINE: NO YES
 HIGH RISE: NO YES CENTRAL REFERENCE SHEET # (IF PROVIDED) _____

FLOOD HAZARD: NO YES
 SPECIAL INSPECTION REQUIRED: NO YES CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

GROSS BUILDING AREA TABLE:

FLOOR	THERAPY NET AREA	VACANT NET AREA	TOTAL BLDG GROSS AREA
FIRST FLOOR	2,723	1,360	4,084
			TOTAL 4,404

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S):
 ASSEMBLY A-1 A-2 A-3 A-4 A-5
 BUSINESS
 EDUCATIONAL
 FACTORY F-1 MODERATE F-2 LOW
 HAZARDOUS H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM
 INSTITUTIONAL I-1 I-2 I-3 I-4 I-5
 MERCHANTILE R-1 R-2 R-3 R-4
 RESIDENTIAL S-1 MODERATE S-2 LOW HIGH-PILED
 STORAGE S-3 MODERATE S-4 LOW HIGH-PILED
 PARKING GARAGE OPEN ENCLOSED REPAIR GARAGE
 UTILITY AND MISCELLANEOUS

ACCESSORY OCCUPANCY CLASSIFICATION: N/A
 INCIDENTAL USES (Table 509): N/A
 SPECIAL USES (CHAPTER 4-LIST CODE SECTIONS): N/A
 SPECIAL PROVISIONS (CHAPTER 5-LIST CODE SECTIONS): N/A
 MIXED OCCUPANCY: NO YES SEPARATION: _____ HR. EXCEPTION: _____
 NON-SEPARATED MIXED OCCUPANCY (508.3)
 The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 SEPARATED MIXED OCCUPANCY (508.4) - See below for area calculations
 For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2* AREA	(C) AREA FOR OPEN SPACE INCREASE ^{1,2}	(E) ALLOWABLE AREA OR UNLIMITED ³
ONE	BUSINESS	2,723	9,000	-	9,000

ALLOWABLE HEIGHT

BUILDING HEIGHT IN FEET (TABLE 504.3)	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
50'-0"	50'-0"	21'-10"	N/A
BUILDING HEIGHT IN STORIES (TABLE 504.4)	2	1	N/A

1 - PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.

FIRE RESISTANCE RATINGS ~~N/A - EXISTING BUILDING~~

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, BEAMS, TRUSSES							
BEARING WALLS							
EXTERIOR							
NORTH	30'±	0	0	-	-	-	-
EAST	0	0	0	-	-	-	-
WEST	0	0	0	-	-	-	-
SOUTH	30'±	0	0	-	-	-	-
INTERIOR	N/A	0	0	-	-	-	-
NONBEARING WALLS AND PARTITIONS							
EXTERIOR							
NORTH	-	0	0	-	-	-	-
EAST	-	0	0	-	-	-	-
WEST	-	0	0	-	-	-	-
SOUTH	-	0	0	-	-	-	-
INTERIOR	-	0	0	-	-	-	-
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0	0	0	-	-	-	-
FLOOR CEILING ASSEMBLY	0	0	0	-	-	-	-
COLUMNS SUPPORTING FLOORS	0	0	0	-	-	-	-
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0	0	0	-	-	-	-
ROOF CEILING ASSEMBLY	0	0	0	-	-	-	-
COLUMNS SUPPORTING ROOF	0	0	0	-	-	-	-
SHAFTS ENCLOSURES - EXIT	0	0	0	-	-	-	-
SHAFTS ENCLOSURES - OTHER	0	0	0	-	-	-	-
CORRIDOR SEPARATION	0	0	0	-	-	-	-
OCCUPANCY / FIRE BARRIER SEPARATION	0	0	0	-	-	-	-
PARTY / FIRE WALL SEPARATION	0	0	0	-	-	-	-
SMOKE BARRIER SEPARATION	0	0	0	-	-	-	-
SMOKE PARTITION	0	0	0	-	-	-	-
TENANT SEPARATION	0	0	0	-	-	-	-
INCIDENTAL USE SEPARATION	0	0	0	-	-	-	-

* INDICATE SECTION NUMBER PERMITTING REDUCTION

PERCENTAGE OF WALL OPENINGS CALCULATIONS

WALL	FIRE SEPARATION DISTANCE FROM PROPERTY LINE(S)(FAMBS)	DEGREE OF OPENINGS PROTECTION TABLE 705.8	PERCENTAGE OF ALLOWABLE AREA	ACTUAL PERCENTAGE OF OPENING ON PLANS
NORTH	N/A	-	UL	UL
SOUTH	N/A	-	UL	UL
EAST	N/A	-	UL	UL
WEST	N/A	-	UL	UL

LIFE SAFETY SYSTEMS

EMERGENCY LIGHTING: NO YES SMOKE DETECTION SYSTEM: NO YES
 EXIT SIGNS: NO YES CARBON MONO. DETECTION: NO YES
 FIRE ALARM: NO YES PANIC HARDWARE: NO YES
 (SPRINKLER MONITORING)

LIFE SAFETY PLAN: A1.2

Check items that are applicable to this project:
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy types for each area as it relates to occupant load calculations (Table 1004.1.1)
 Occupant loads for each area
 Exit access travel distance (1017)
 Common path of travel distance (1006.2.1 & 1006.3.2(1))
 Dead end lengths (1024)
 Clear exit width for each exit door
 Maximum calculated occupant load capacity each exit door accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

EXIT REQUIREMENTS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM* NUMBER OF EXITS REQUIRED	TRAVEL DISTANCE ALLOWABLE TRAVEL DISTANCE (TABLE 1004.2.4)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS ^{1,2} (SECTION 1004.1)	ACTUAL DISTANCE BETWEEN EXIT DOORS SHOWN ON PLANS
FIRST	2	200'	91'-0"	41'-5"	74'-4"

1 Corridor dead ends (Section 1004.3.2.3)
 2 Single exits (Table 1005.2.2)
 3 Common path of travel (Section 1004.2.4.5)

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	(a) AREA SQ. FT.	(b) AREA PER OCCUPANT	(c) EXIT WIDTH PER OCCUPANT (1005.1)		EXIT WIDTH (IN) 2X4X8				
			EGRESS WIDTH	REQUIRED WIDTH (SECTION 1005.2.3) (a ÷ b) x c	STAIR	LEVEL			
BUSINESS	2,723	1/100	28	N/A	0.2	N/A	56	N/A	72

ACCESSIBLE DWELLING UNITS (SECTION 1107) ~~N/A~~

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	-	-	-	-	-	-	-

ACCESSIBLE PARKING (SECTION 1106) ~~N/A - see civil plans~~

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132' ACCESS AISLE	8' ACCESS AISLE	
NEW	-	-	-	-	-	-
TOTAL REQUIRED	-	-	-	-	-	-
TOTAL PROVIDED	-	-	-	-	-	-

PLUMBING FIXTURE REQUIREMENTS 28 persons

SPACE	EXIST'G	WATERCLOSETS		URINALS		LAVATORIES		SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	SERVICE SINK ACCESSIBLE	NOTES & EXCEPTIONS
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE				
NEW	1	1							1	1	1
REQ'D	1	1			1	1			1	1	1

EXISTING TOILET FACILITIES ARE LOCATED WITHIN 500 FEET OF THE WORK AREA.

SPECIAL APPROVALS ~~N/A~~

(Describe special approvals from local jurisdictions, County of State Department of Health, NC Department of Insurance, International Code Council, etc.)

ENERGY SUMMARY ~~N/A - EXISTING BUILDING~~

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES UNKNOWN
 EXEMPT BUILDING: NO YES (CODE OR STATUTORY REF.) _____
 CLIMATE ZONE: 3A 4A 5A
 METHOD OF COMPLIANCE: ENERGY CODE PERFORMANCE PRESCRIPTIVE
 MARKING PERFORMANCE PRESCRIPTIVE

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

ROOF/CEILING ASSEMBLY: WOOD TRUSSES & R-38 BATT
 DESCRIPTION OF ASSEMBLY: 2023
 U-VALUE OF TOTAL ASSEMBLY: R-38
 R-VALUE OF INSULATOR: -
 SKYLIGHTS IN EACH ASSEMBLY: -
 U-VALUE OF SKYLIGHT: -
 TOTAL SQ. FT. OF SKYLIGHTS IN EACH ASSEMBLY: -

WALLS BELOW GRADE: -
 DESCRIPTION OF ASSEMBLY: -
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATOR: -

FLOORS OVER UNCONDITIONED SPACE: -
 DESCRIPTION OF ASSEMBLY: -
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATOR: -

FLOORS SLAB ON GRADE: -
 DESCRIPTION OF ASSEMBLY: -
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATOR: -

OPENINGS: -
 U-VALUE OF ASSEMBLY: -
 SOLAR HEAT GAIN COEFFICIENT: -
 PROTECTION FACTOR: -
 DOOR R-VALUE: -

EXTERIOR WALLS: 4" WOOD STUDS w/ R-19 BATT
 DESCRIPTION OF ASSEMBLY: -
 U-VALUE OF TOTAL ASSEMBLY: R-19
 R-VALUE OF INSULATOR: -

SLAB HEATED: -

STRUCTURAL DESIGN

DESIGN LOADS:
 IMPORTANCE FACTORS: SNOW 1.0 SEISMIC _____
 LIVE LOADS: ROOF 10psf MEZZANINE _____ FLOOR 50psf
 GROUND SNOW LOADS: 10psf psf
 WIND LOADS: BASIC WIND SPEED 116 mph (ASCE-7) EXPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY: A B C D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
 RISK CATEGORY (Table 1604.5): 1 2 3 4
 SPECTRAL RESPONSE ACCELERATION: S_m: 0.236 %g S_{m1}: 0.179 %g
 SITE CLASSIFICATION: A B C D E F
 DATA SOURCE: FIELD TEST PRESUMPTIVE HISTORICAL DATA
 BASIC STRUCTURAL SYSTEM: BEARING WALL DUAL w/ SPECIAL MOMENT FRAME
 BUILDING FRAME DUAL w/ INTERMEDIATE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM
 ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE DYNAMIC
 ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED: YES NO
 LATERAL DESIGN CONTROL: EARTHQUAKE WIND

SOIL BEARING CAPACITY:
 FIELD TEST: _____ psf
 PRESUMPTIVE BEARING CAPACITY: 2000 psf
 PILE SIZE, TYPE AND CAPACITY: _____

SPECIAL INSPECTIONS CHAPTER 17 ~~N/A~~

SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN BUILDING CATEGORIES AND/OR CONTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704.
 To schedule the required preconstruction meeting with the City of Raleigh please call 807-5111
 List whom will inspect the required special inspections
 Fabricator of load bearing components -
 Soil tests -
 Concrete, caissons, piles, piers, precast -
 Post tension concrete -
 Modular construction -
 Steel and connections, welds, bolts, anchors -
 Fire spray tests -
 Smoke control -
 Seismic, wind designs, Quality Assurance -
 Retaining wall -
 Masonry -
 Wood -
 Alternate Methods -
 EFIS -
 Other (describe) -
 Other (describe) -
 Owner or agent -

ELECTRICAL SUMMARY ~~N/A~~

ELECTRICAL SYSTEM AND EQUIPMENT
 Method of Compliance: Prescriptive Performance Energy Cost Budget
 * Provide a standard riser diagram which indicates designated points for check metering.
 * Provide a standard panel schedule description which identifies different end use loads.

Lighting schedule
 Lamp type required in fixture _____
 Number of lamps in fixture _____
 Ballast type used in the fixture _____
 Number of ballasts in fixture _____
 Total wattage per fixture _____
 Total interior wattage specified vs. allowed _____
 Total exterior wattage specified vs. allowed _____

Equipment schedules with motors (not used for mechanical systems)
 Motor horsepower _____
 Number of phases _____
 Minimum efficiency _____
 Motor type _____
 # of poles _____

MECHANICAL SUMMARY ~~N/A~~

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
 Method of Compliance: Prescriptive Performance Energy Cost Budget

THERMAL ZONE
 Exterior design conditions
 Winter dry bulb _____
 Summer dry bulb _____
 Interior design conditions
 Winter dry bulb _____
 Summer dry bulb _____
 Relative Humidity _____
 BUILDING HEATING LOAD _____
 BUILDING COOLING LOAD _____
 MECHANICAL SPACING CONDITIONING SYSTEM
 Unitary
 Description of unit _____
 Heating efficiency _____
 Cooling efficiency _____
 Heat output of unit _____
 Cooling output of unit _____
 Boiler
 Total boiler output. If oversized, state reason _____
 Chiller
 Total chiller capacity. If oversized, state reason _____

LIST EQUIPMENT EFFICIENCIES
 EQUIPMENT SCHEDULES WITH MOTORS (mechanical systems)
 Motor horsepower _____
 Number of phases _____
 Minimum efficiency _____
 Motor type _____
 # of poles _____

SHELL VARIABLE FORM ~~N/A~~

Check each applicable line to match scope of work. Edit as necessary to provide clear detail of installation.

MECHANICAL:
 No work Equipment set with _____ without power Gas line
 Trunk line installed with _____ without outlets Install complete operational system
 Other _____

PLUMBING:
 No work Install water service and sewer Install complete plumbing system
 Install building drain and _____ or water distribution main with _____ without branches
 Other _____

SPRINKLER:
 Install complete plumbing system

BUILDING:
 Install slab _____ partial _____ complete Install demising walls
 Install interior partitioning _____ partial _____ complete Install ceilings
 White box (additional interior completion permits are required for Certificate of Occupancy and power)
 Other _____

ELECTRICAL:
 House panel (CONNECTING TO) Service laterals to meter centers/panels located on buildings
 Demise wall and ceilings only Conduit, duct, raceway, in slab
 Power and lighting circuits to "J" Box Install light fixtures
 Install Heat/AC Elevator Generator Parking lot lighting
 Install complete system
 Other _____

Please Provide full information on any Alternative Methods and Means incorporated into the design of this project. Provide specific details and incorporate into plan submittal any supporting documents or agreement letters.

WALL LEGENDS

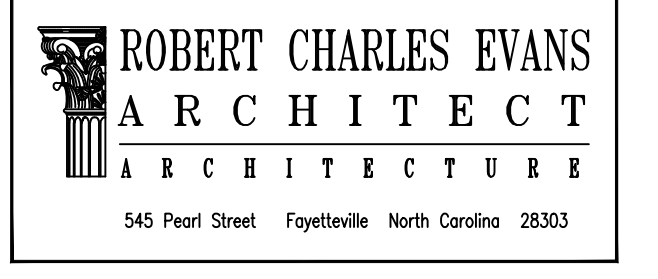
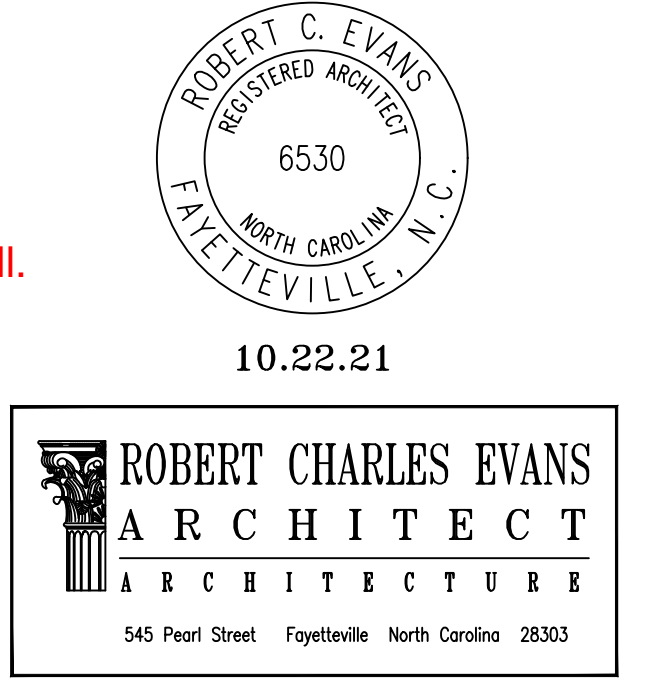
<input type="checkbox"/> FIRE PARTITIONS 709	<input type="checkbox"/> FIRE WALLS 706	<input type="checkbox"/> FIRE BARRIERS 707
<input type="checkbox"/> SMOKE PARTITIONS 711	<input type="checkbox"/> SMOKE BARRIERS 710	<input type="checkbox"/> SHAFT ENCLOSURE 708

OCCUPANT CONTENT

THERAPY	2,703 sf / 100 = 28 PERSONS
OCCUPANT CONTENT	28 PERSONS

No info at all. Follow prescriptive method.

This information is all wrong. R-20 minimum in walls, R-15 for slab, and R-42 minimum for attic.



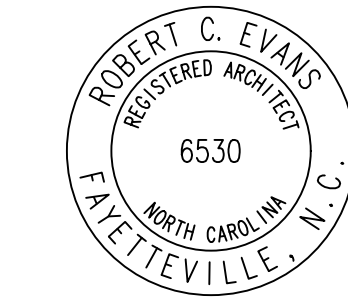
Northgate Therapy New Building

Drawing Name: Appendix B
 Project Name: A New Building for Northgate Therapy
 Project Location: Northgate - Lot 5C Cameron North Carolina

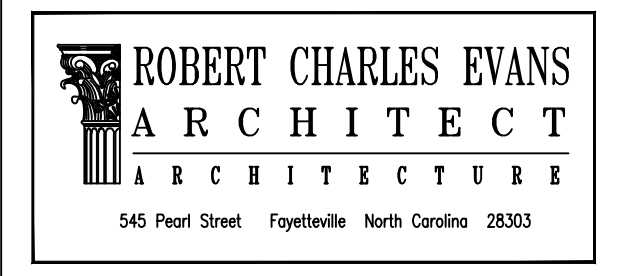
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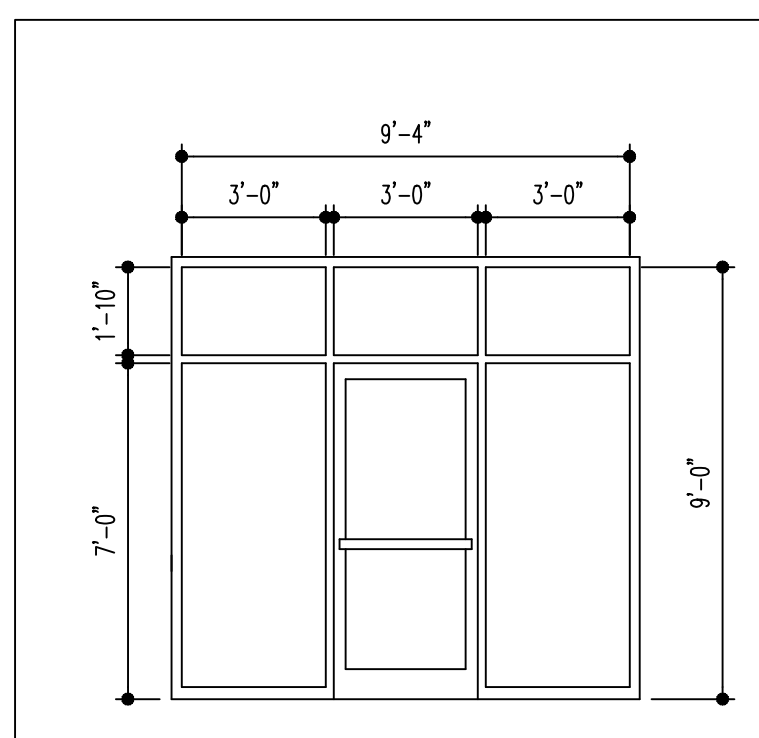
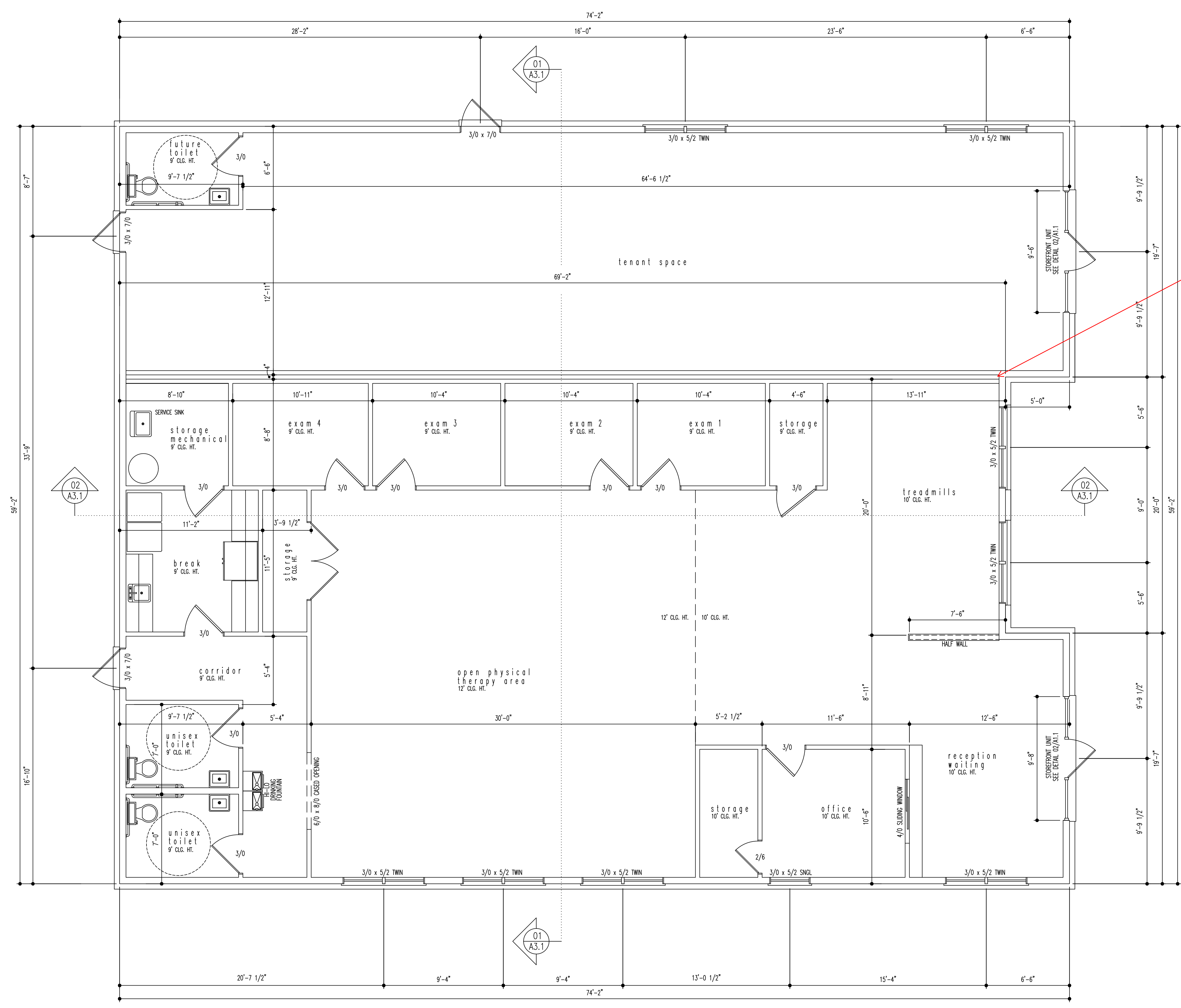
PROJECT NO: 21-099
 DRAWN BY: RCE
 DATE: 03.24.21
 REVISIONS:
 SHEET NO: A0.2



10.21.22



This wall may need to be a fire wall, depending upon what occupancy enters the tenant space (at a later date)



Northgate Therapy New Building

Drawing Name:
Floor Plan

Project Name:
A New Building for
Northgate Therapy

Project Location:
Northgate - Lot 5C
Cameron
North Carolina

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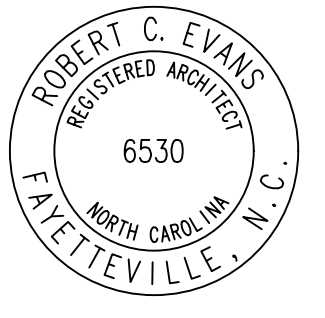
PROJECT NO: 21-099
DRAWN BY: RCE,jec
DATE: 06.15.21
REVISIONS:

SHEET NO:

A1.1

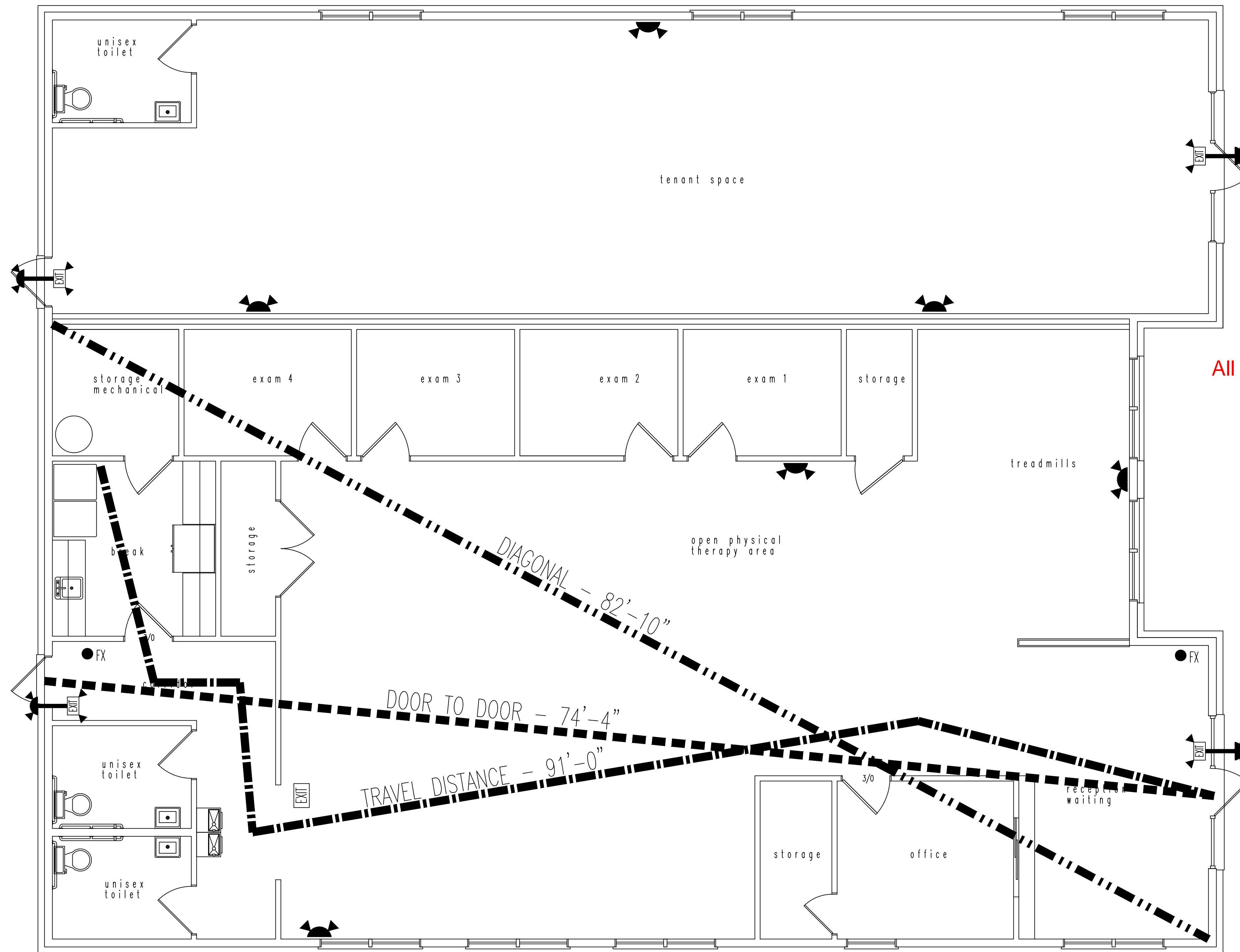
01 FLOOR PLAN
1/4" = 1'-0"

02 DOOR DETAIL
1/4" = 1'-0"



10.22.21

ROBERT CHARLES EVANS
ARCHITECT
ARCHITECTURE
545 Pearl Street Fayetteville North Carolina 28303



All door hardware shall be lever style.

36" / .2" = 180 PERSONS
ACTUAL PERSONS = 14

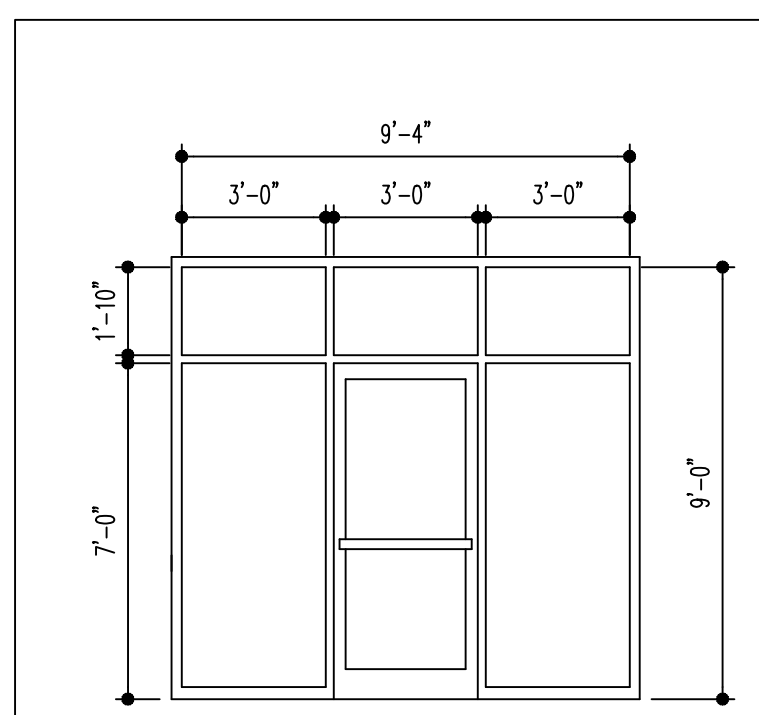
36" / .2" = 180 PERSONS
ACTUAL PERSONS = 14

DIAGONAL - 82'-10"
DOOR TO DOOR - 74'-4"
TRAVEL DISTANCE - 91'-0"

- EXIT SIGN w/ DIRECTIONAL ARROW
- EXIT SIGN
- EXIT SIGN w/ EMERGENCY EGRESS LIGHT
- EMERGENCY EGRESS LIGHT
- FIRE EXTINGUISHER

OCCUPANT CONTENT

THERAPY	2,703 sf / 100 = 28 PERSONS
OCCUPANT CONTENT	28 PERSONS



Drawing Name:
Floor Plan

Project Name:
A New Building for
Northgate Therapy

Project Location:
Northgate - Lot 5C
Cameron
North Carolina

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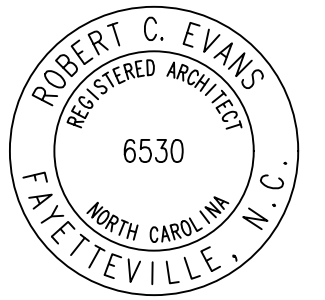
PROJECT No: 21-099
DRAWN BY: RCE,jec
DATE: 06.15.21
REVISIONS:

SHEET NO:

A1.2

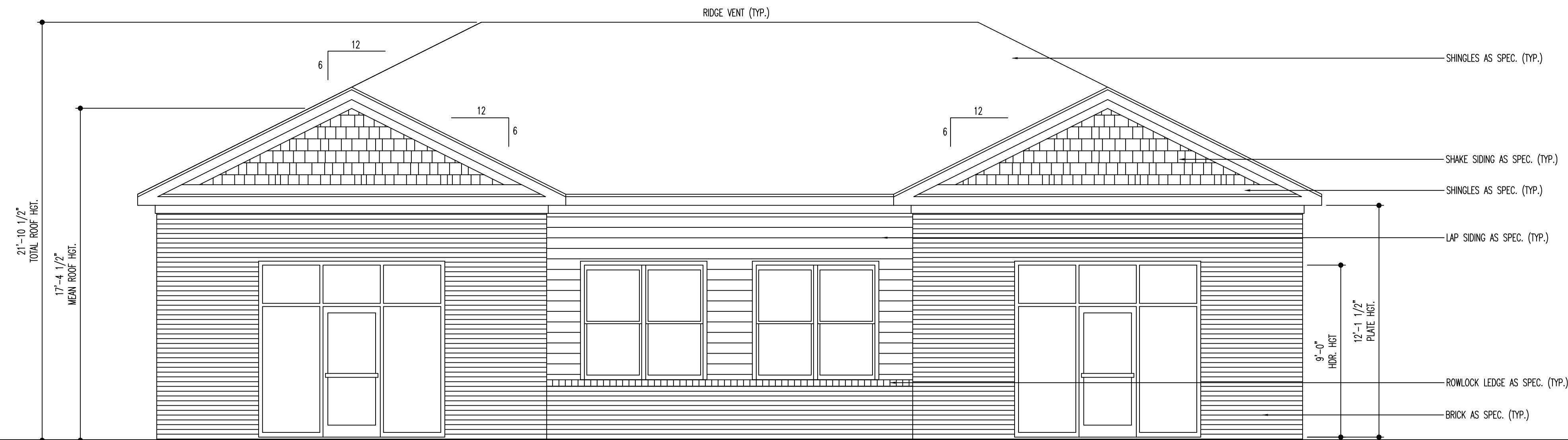
01 FLOOR PLAN
1/4" = 1'-0"

02 DOOR DETAIL
1/4" = 1'-0"



10.22.21

ROBERT CHARLES EVANS
ARCHITECT
ARCHITECTURE
545 Pearl Street Fayetteville North Carolina 28303



01 FRONT ELEVATION
1/4" = 1'-0"



02 LEFT ELEVATION
1/4" = 1'-0"

Northgate Therapy New Building

Drawing Name:
Exterior Elevations

Project Name:
A New Building for
Northgate Therapy

Project Location:
Northgate - Lot 5C
Cameron
North Carolina

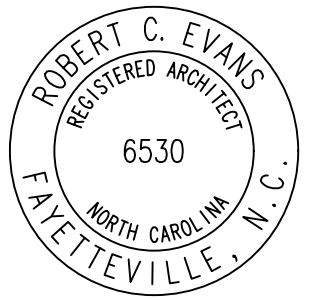
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PROJECT NO: 21-099
DRAWN BY: RCE,jec
DATE: 06.15.21
REVISIONS:

SHEET NO:

A2.1



10.22.21

ROBERT CHARLES EVANS
ARCHITECT
ARCHITECTURE
545 Pearl Street Fayetteville North Carolina 28303

Northgate Therapy New Building

Drawing Name:
Exterior Elevations

Project Name:
A New Building for
Northgate Therapy

Project Location:
Northgate - Lot 5C
Cameron
North Carolina

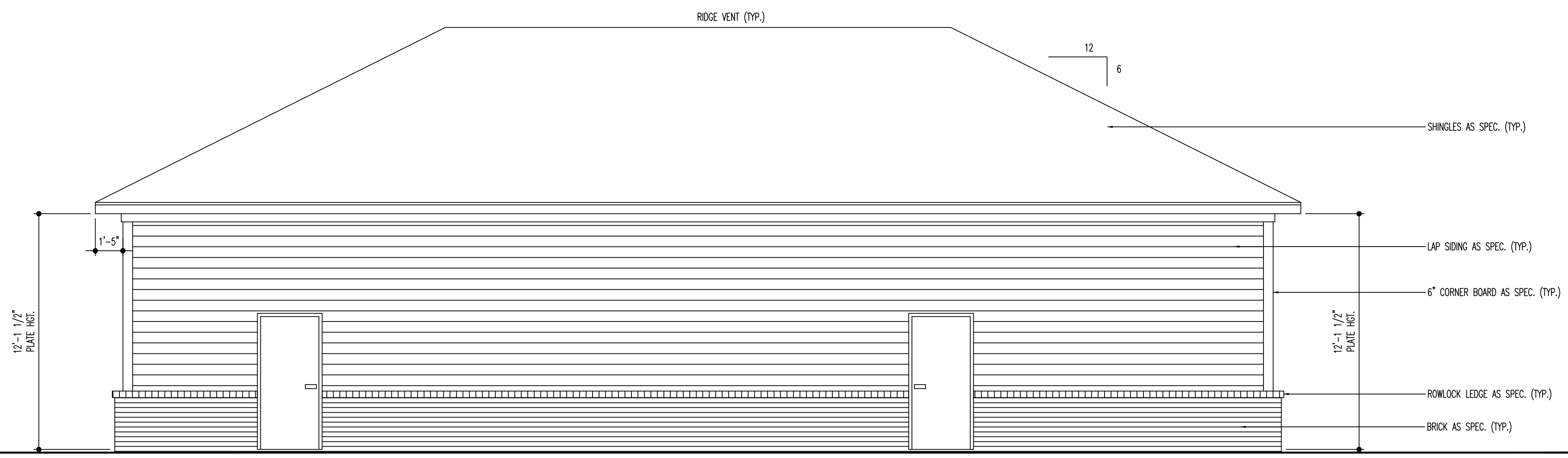
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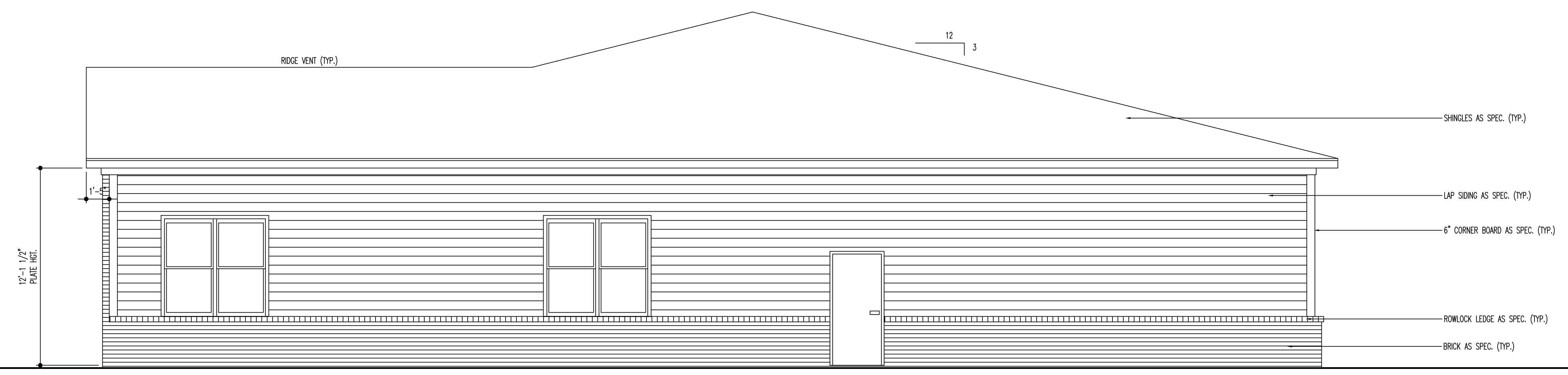
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DRAWN BY: RCE,jec
DATE: 06.15.21
REVISIONS:

SHEET NO:

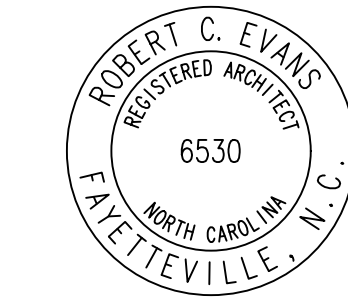
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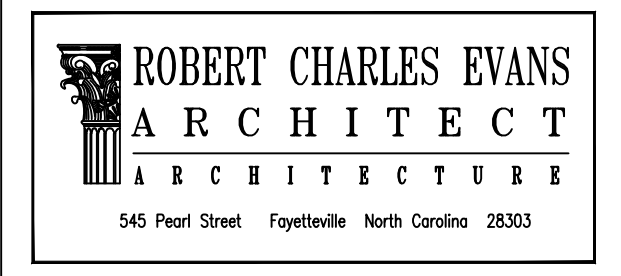
01 REAR ELEVATION
1/4" = 1'-0"



02 RIGHT ELEVATION
1/4" = 1'-0"



10.22.21



Northgate Therapy New Building

Drawing Name:
Exterior Elevations

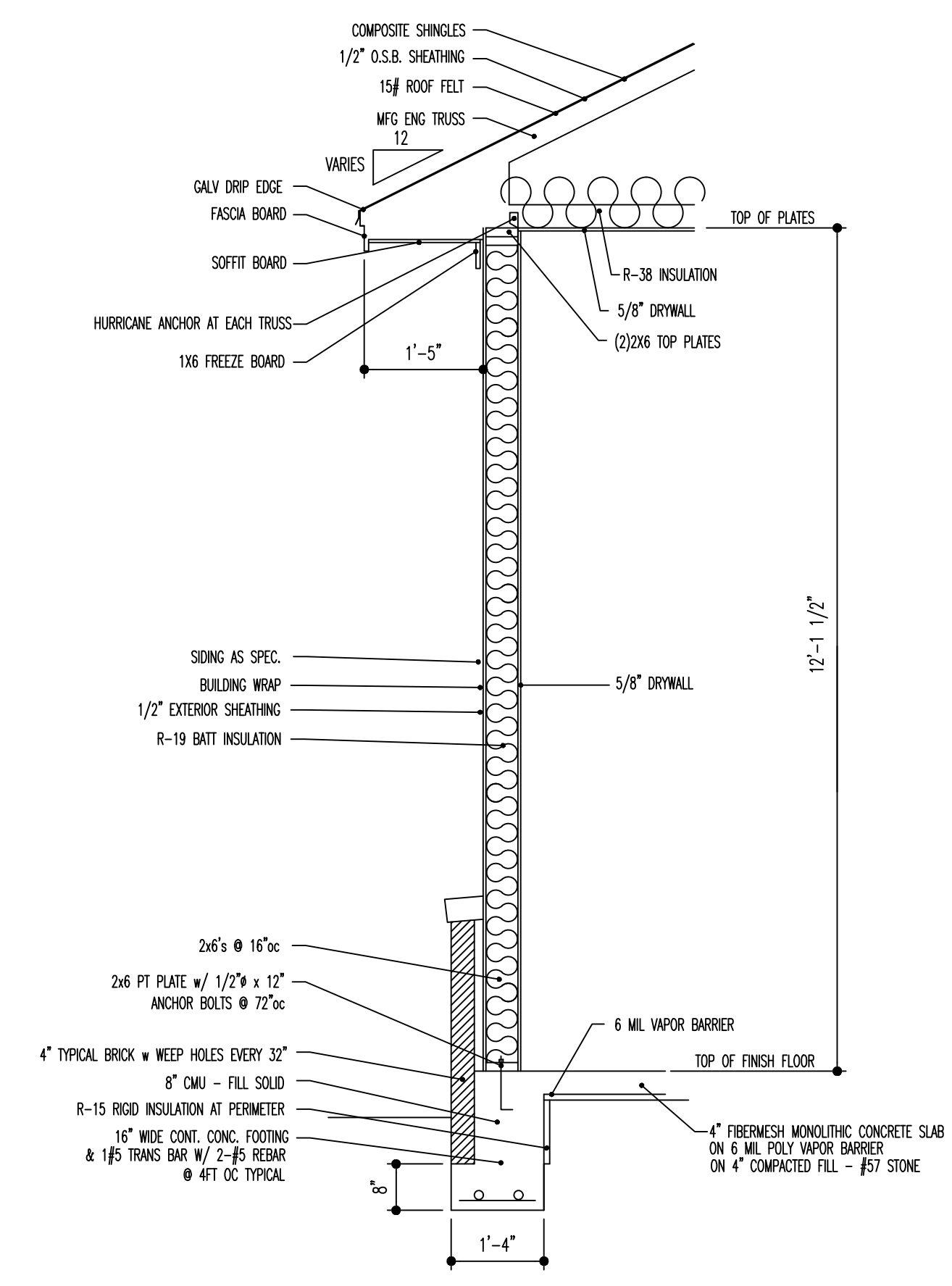
Project Name:
A New Building for
Northgate Therapy

Project Location:
Northgate - Lot 5C
Cameron
North Carolina

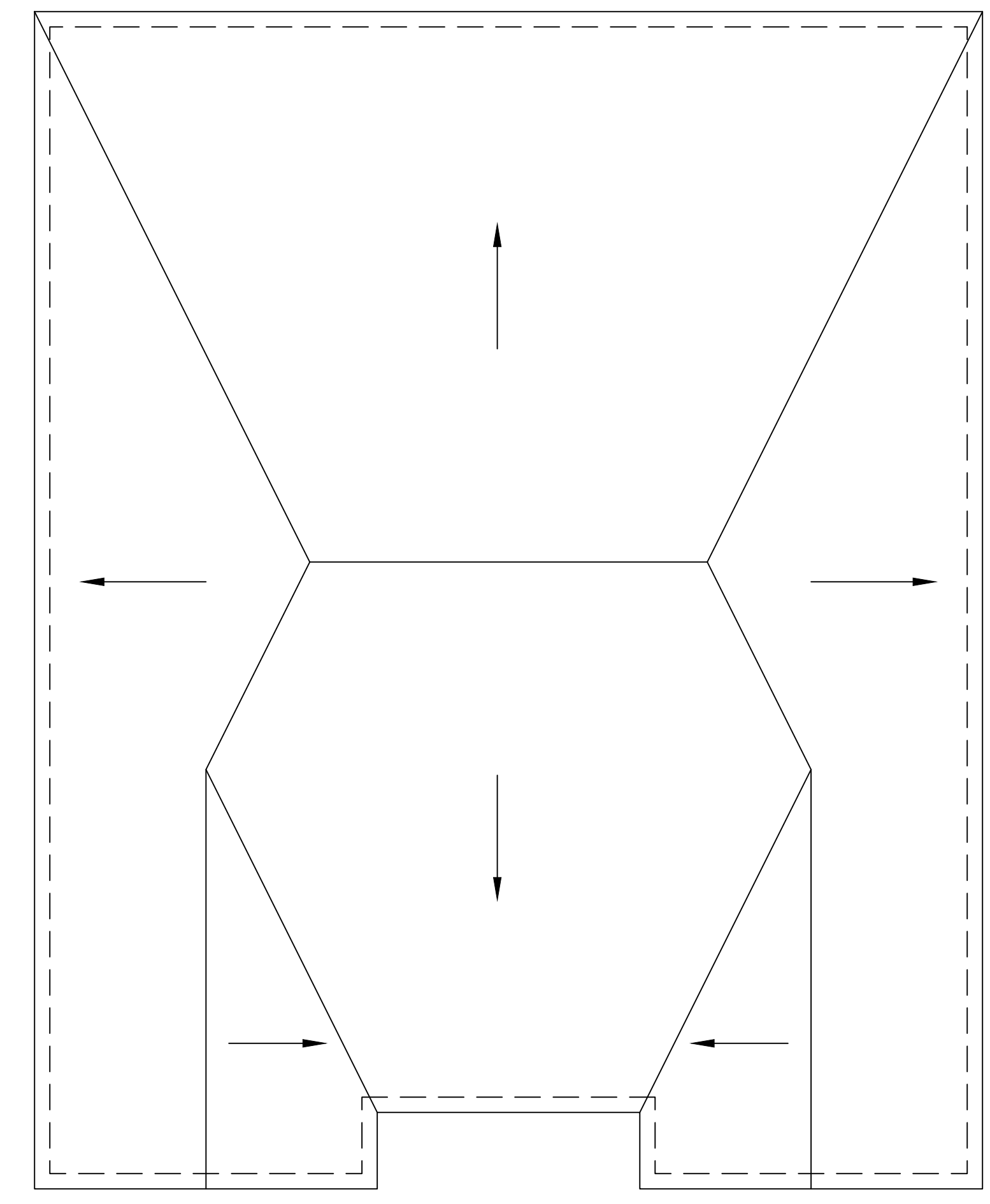
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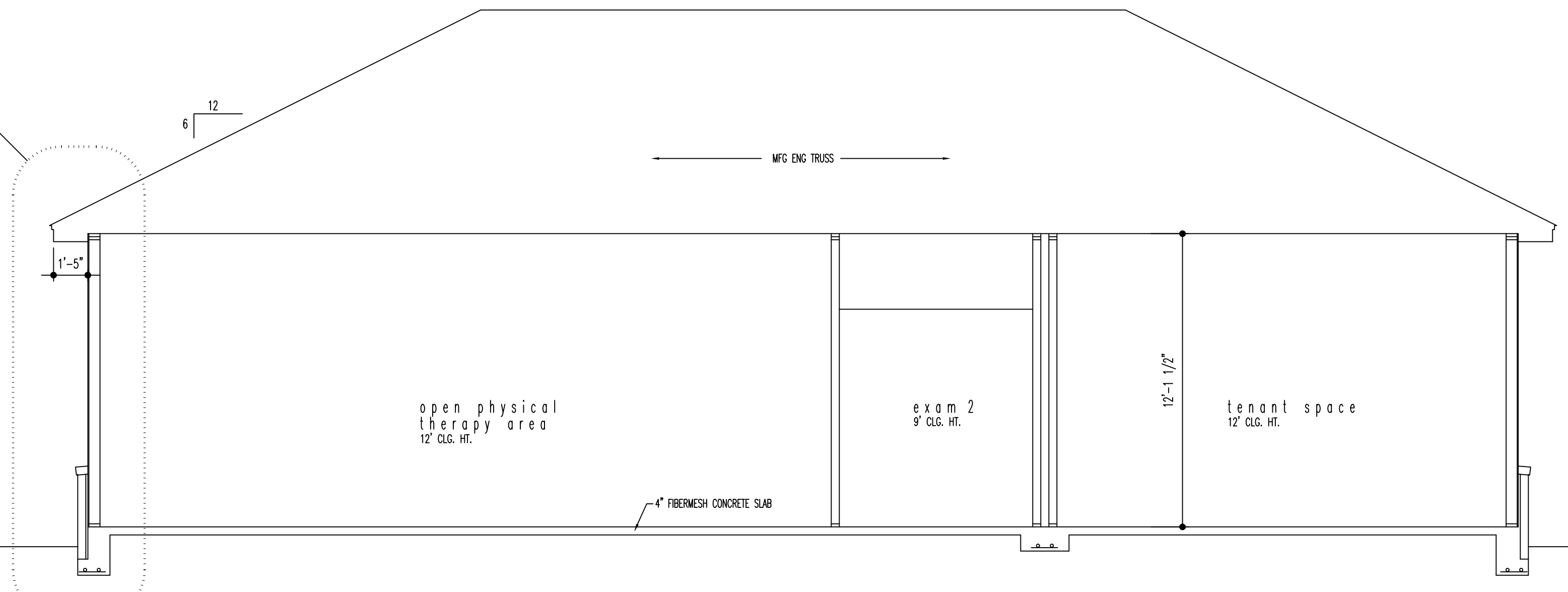
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DRAWN BY: RCE,jec	
DATE: 06.15.21	
REVISIONS:	
	A3.1



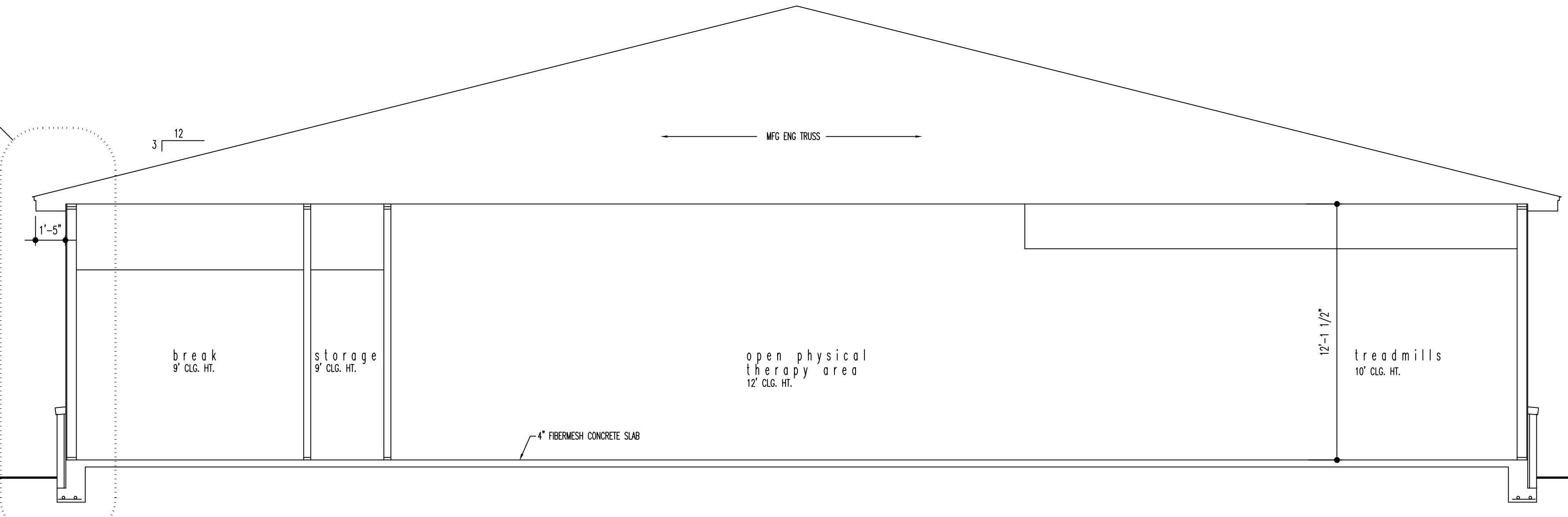
03 WALL SECTION
1/2" = 1'-0"



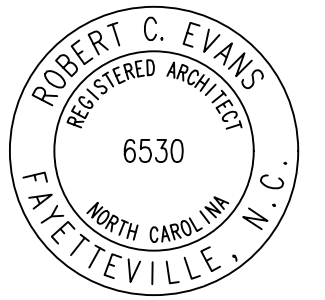
04 ROOF PLAN
1/8" = 1'-0"



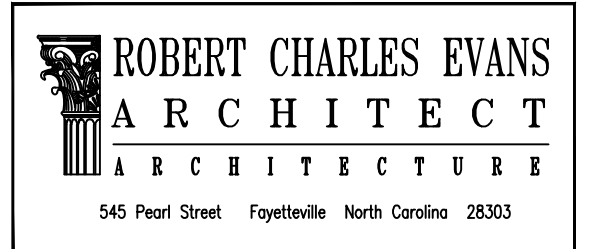
01 BUILDING SECTION
1/4" = 1'-0"



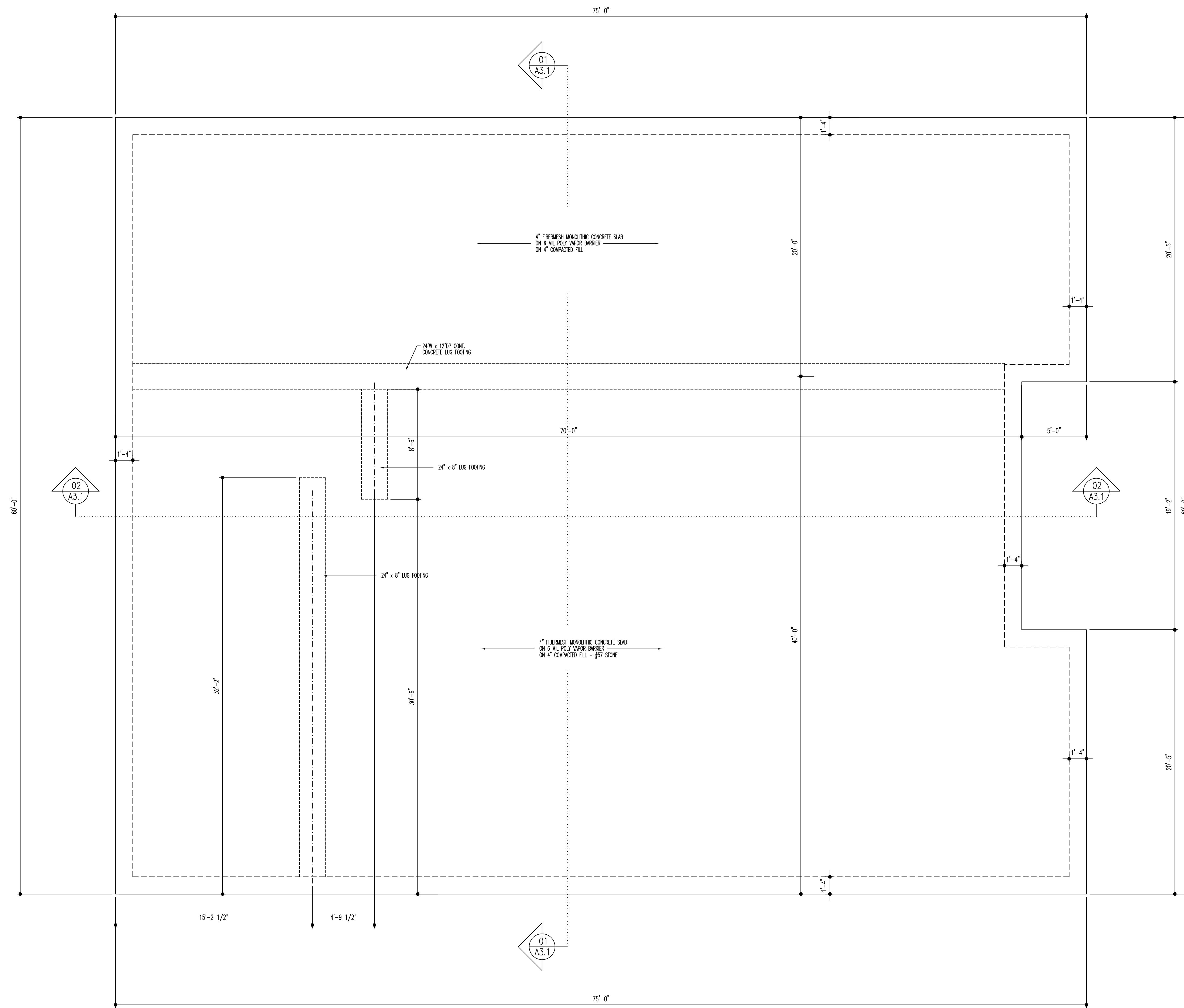
02 BUILDING SECTION
1/4" = 1'-0"



10.22.21



Slab shall have R-15 insulation from within 2 inches top of slab to bottom of footing, or 24 inches, whichever is less.



Northgate Therapy New Building

Drawing Name:
Foundation Plan

Project Name:
A New Building for
Northgate Therapy

Project Location:
Northgate - Lot 5C
Cameron
North Carolina

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PROJECT NO: 21-099
DRAWN BY: RCE,jec
DATE: 06.15.21
REVISIONS:

SHEET NO:

A4.1

PLUMBING LEGEND	
TYPE	DESCRIPTION
----	DOMESTIC COLD WATER PIPING
-----	DOMESTIC HOT WATER PIPING
-----	SANITARY WASTE PIPING
----	SANITARY VENT PIPING
○	PIPE TEE UP (DOWN)
○	PIPE TURN UP (UP)
○	PIPE TURN DOWN (DN)
⊗	GATE VALVE
⊕	BEGINNING OR END OF NEW WORK, CONNECT TO EXISTING

PLUMBING FIXTURE SCHEDULE										
SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	FIXTURE MOUNTING	ACCESSORIES	SUPPLY	WASTE	VENT	ELECTRICAL	REMARKS
P1	AMERICAN STANDARD	CADET ADA/ 215AA.104	ELONGATED BOWL FLUSH TANK TOILET	FLOOR MOUNTED	SEAT: AMERICAN STANDARD / 5901.100	3/4" C.W.	3"	2"		
P2	AMERICAN STANDARD	LUCERNE/ 0355.012	TOILET LAVATORY	WALL MOUNTED	AMERICAN STANDARD METERING FAUCET 1340.227	1/2" C.W. /H.W.	2"	1-1/2"		
P3	OASIS	P8ACSL	2 STATION WATER COOLER (REFRIGERATED)	WALL MOUNTED		1/2" C.W.	2"	1-1/2"	120V 286 W	
P4	ELKAY	DLR-2522-10	KITCHEN SINK	COUNTER MOUNTED	DELTA MODEL 4175.501 FAUCET, W/SPRAYER	1/2" C.W. /H.W.	2"	1-1/2"		
P5	GLYD GRAY		WASHING MACHINE/DRYER COMBO			1/2" C.W. /H.W.	3"	2"		
P6	WATER TITE	AB9700	OUTLET BOX, ICE MAKER	WALL MOUNTED		1/2" C.W.				
P7	A.O. SMITH	DSE-30	30 GALLON ELECTRIC WATER HEATER			3/4" C.W./H.W.			208-230V 6000 W	
P8	OWNER SELECTED		UTILITY SINK	FLOOR MOUNTED		1/2" C.W. /H.W.	3"	2"		

All fixtures, cabinets, and bathrooms shall be ANSI117.1 compliant.

PLUMBING NOTES:

PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA PLUMBING CODE 2018 EDITION AND LOCAL CODES.

ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE GENERAL CONTRACTOR AND OWNER TO SUIT THE OWNER'S OPERATING CONDITIONS.

PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE GENERAL CONTRACTOR OF ANY DEVIANCIES FROM THE CONTRACT DRAWINGS PRIOR TO STARTING ANY WORK.

THE PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE PLUMBING CONTRACTOR TO ORGANIZE HIS PIPING IN ATTIC SPACES, CRAWL SPACES, AND ABOVE CEILINGS. MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS IF POSSIBLE. FREE RUNS OF PIPING IS NOT ACCEPTABLE.

THE PLUMBING CONTRACTOR SHALL LAY OUT AND INSTALL HIS WORK IN ADVANCE OF POURING CONCRETE FLOORS OR WALLS. HE SHALL FURNISH ALL SLEEVES TO THE GENERAL CONTRACTOR FOR OPENINGS THROUGH POURED MASONRY FLOORS, OR WALLS, ABOVE GRADE REQUIRED FOR PASSAGE OF ALL PIPES TO SUPPORT HIS EQUIPMENT.

HORIZONTAL DRAINAGE AND WASTE PIPE SHALL HAVE A MINIMUM SLOPE OR FALL OF 1/8 INCH PER FOOT. ALL CHANGE OF HORIZONTAL DIRECTIONS IN SOIL WASTE PIPE SHALL BE MADE WITH LONG RADIUS FITTINGS WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS.

COLD AND HOT WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD DRAWN COPPER TUBING CONFORMING TO ASTM B-88 WITH SWEAT JOINTS AND WROUGHT OR CAST VALVES AND FITTINGS (UNIONS, STRAINERS, ETC.). JOINT SHALL BE MADE WITH LEAD FREE SOLDER. PEX PIPING MAY BE USED WITH OWNERS APPROVAL.

ALL HOT WATER PIPING SHALL BE INSULATED WITH 1 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

SANITARY HORIZONTAL WASTE, VENT PIPING, AND FITTINGS ABOVE GRADE SHALL BE SCHEDULE 40 PVC-DWV PIPE-CELLULAR CORE FROM CHARLOTTE PIPE AND FOUNDRY COMPANY OR APPROVED EQUAL, AND MUST MEET OR EXCEED THE REQUIREMENTS OF ASTM F-891, NSF STANDARD NO. 14, AND IAPMO UPC.

ALL WASTE STACK PIPING SHALL BE CAST IRON AND INSULATED FOR SOUND IN WALLS.

ALL WASTE AND STORM PIPING ABOVE CEILING, VERTICAL CHASES, WALLS SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE. NO INSULATION REQUIRED IN CRAWL SPACE OR BELOW FLOOR SLAB OF ANY WASTE AND STORM PIPING.

~~IN LIEU OF FIBERGLASS INSULATION, THE PLUMBING CONTRACTOR IS ALLOWED TO USE CLOSED CELL INSULATION, 1/2 INCH THICK ARMSTRONG/ARMAFLEX II ON ALL COLD WATER PIPES. RIGID URETHANE FOAM INSULATION, 1 INCH THICK ARMSTRONG/ARMALOK II ON ALL HOT WATER PIPING.~~

ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ALL FIXTURES, DRAINS, TRAPS, ETC. SHALL BE SET PLUMB AND LEVEL.

ALL HANDICAPPED FIXTURES AND TRIM SHALL BE INSTALLED IN ACCORDANCE WITH THE NORTH CAROLINA PLUMBING CODE 2018 EDITION.

CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT EACH WALL PENETRATION.

ESCUTCHEONS SHALL BE CHROME PLATED, SPRING TYPE, ON ALL PIPES PASSING THROUGH WALLS AND CEILINGS IN FINISHED AREAS. FLOOR ESCUTCHEONS SHALL BE CAST BRASS, CHROME PLATED, WITH SET SCREW.

ESCUTCHEONS SHALL BE OF SUFFICIENT SIZE TO COVER OUTSIDE DIAMETER OF THE PIPE OR THE INSULATION OF THE PIPE.

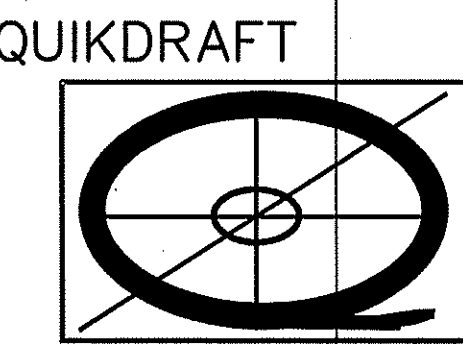
FLASHING FOR VENTS THROUGH THE ROOF SHALL BE TWO-PIECE TYPE, 16 OUNCE COPPER COUNTER FLASHING AND BASE FLASHING. OR A TWO-PIECE TYPE, 4 POUND LEAD COUNTER FLASHING AND BASE FLASHING. THE BASE FLASHING SHALL BE INSTALLED BY THE GENERAL CONTRACTOR WITH THE ROOF SYSTEM.

VENT FLASHING SHALL EXTEND DOWN AT LEAST 4 INCHES FROM THE TOP OF THE PIPE. FLASHING SHALL EXTEND AT LEAST 12 INCHES IN ALL DIRECTIONS FROM THE PIPE AND SHALL BE PARALLEL TO THE ROOF LINE.

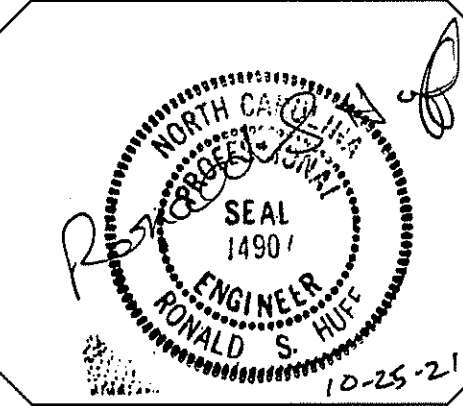
ALL EQUIPMENT AND INSTALLED MATERIALS SHALL BE THOROUGHLY CLEAN AND FREE OF ALL DIRT, OIL, GRIT, GREASE, AND ETC.

ALL PLUMBING SYSTEMS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING FROM THE OWNER.

All piping in unconditioned spaces shall be insulated to min. R 6.5



DRAFTING &
DESIGN
(910) 574-4901



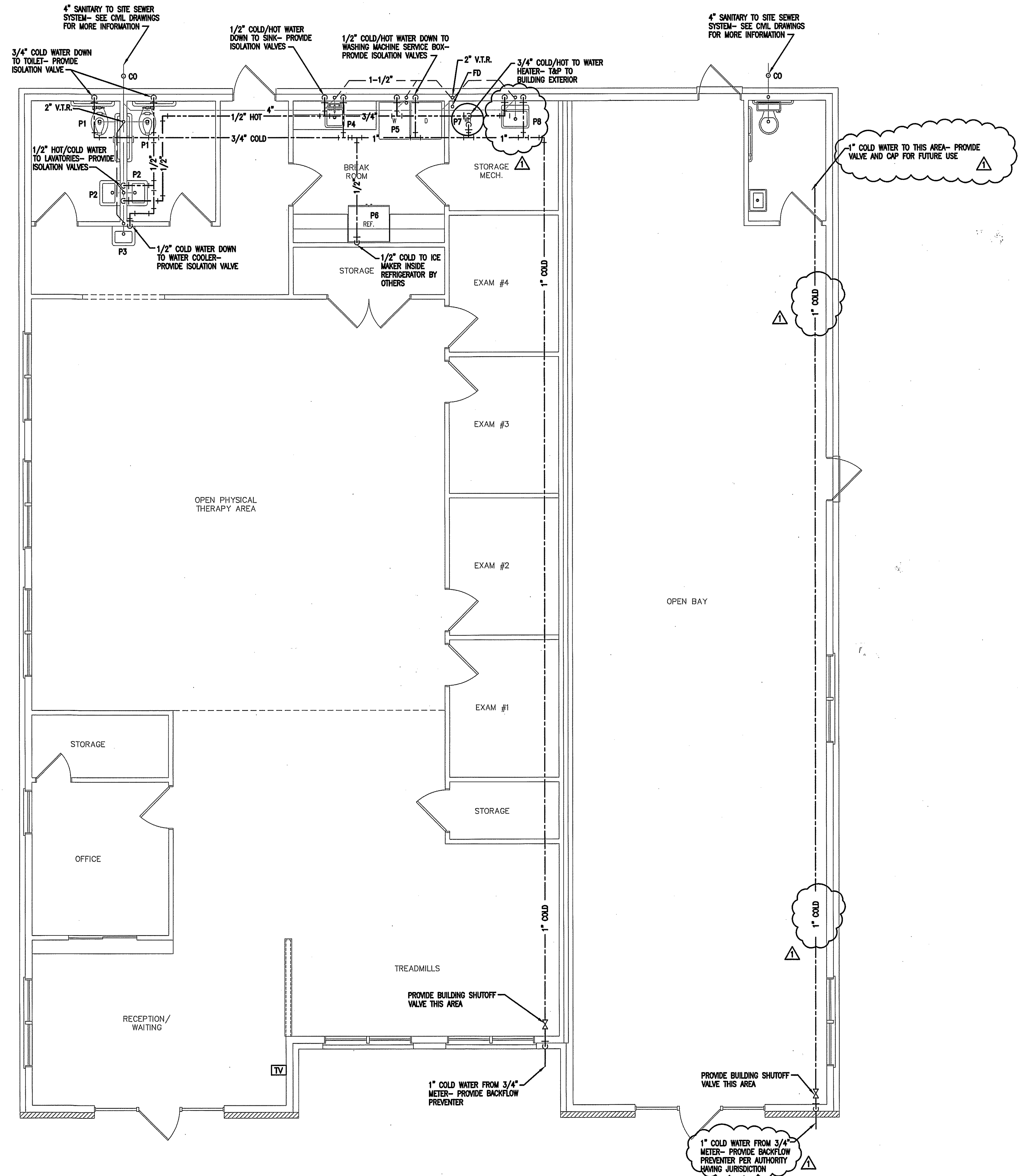
FINAL DRAWING FOR REVIEW PURPOSES ONLY
 PRELIMINARY FOR DESIGN DEVELOPMENT ONLY
 FINAL DRAWING FOR CONSTRUCTION

NORTH GATE
CAMERON NORTH CAROLINA

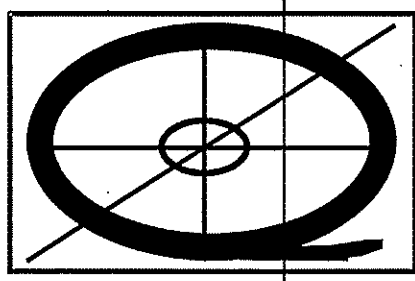
PROJECT NO: 21003
 DRAWN BY: J.PARRISH
 DATE: 04-15-2021
 10-07-2021

SHEET NO:
P1

All water lines in unconditioned attic space shall be insulated to R-6.5 Minimum.

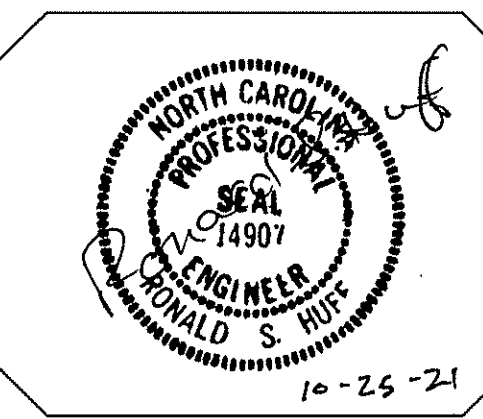


QUICKDRAFT



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 PRELIMINARY FOR DESIGN DEVELOPMENT ONLY
 FINAL DRAWING FOR CONSTRUCTION

NORTH GATE
 CAMERON NORTH CAROLINA

PROJECT NO: 21003
 DRAWN BY: J.PARRISH
 DATE: 04-15-2021
 10-07-2021

SHEET NO:
P2

1 PLUMBING FLOOR PLAN
 P2 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

ALL WORK SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA MECHANICAL CODE 2018 EDITION, ASHRAE, SMACNA, AND NFPA.

STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED.

THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK, PIPING, AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICT.

THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS WITH THE GENERAL CONTRACTOR.

THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE.

ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL PENETRATIONS (PERTAINING TO HIS WORK) THROUGH THE ROOF, WALLS, FLOORS WITH THE GENERAL CONTRACTOR. ANY WATERPROOFING AROUND THE OPENINGS TO BE COMPLETED BY THE GENERAL CONTRACTOR.

THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS PRIOR TO INSTALLATION. ALL PLATFORMS AND WALKWAYS IN ATTIC SPACES ARE PROVIDED BY THE GENERAL CONTRACTOR. THE MECHANICAL CONTRACTOR TO COORDINATE THE LOCATION AND DIMENSIONS OF ALL PLATFORMS IN THE ATTIC WITH THE GENERAL CONTRACTOR.

ALL EQUIPMENT HAVING ROTATING OR MOVING PARTS SHALL HAVE VIBRATION ISOLATORS TO ELIMINATE TRANSMISSION OF OBJECTIONABLE NOISE TO OTHER MATERIAL OR EQUIPMENT.

WHERE OUTSIDE AIR INTAKE DUCTWORK CONNECTS TO OUTSIDE AIR LOUVER, THE INSIDE FACE OF THE DUCTWORK SHALL BE PRIMED AND PAINTED WITH (2) TWO COATS OF FLAT BLACK TO PREVENT DUCTWORK FROM BEING VISIBLE.

THE MECHANICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4 INCH MINIMUM) ETCHED INTO THE WHITE CORE. NAME TAGS TO BE MOUNTED WITH SELF-TAPPING SHEET METAL SCREWS.

ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

THE MECHANICAL CONTRACTOR SHALL CLEAN ALL OF HIS EQUIPMENT PRIOR TO FINAL CLOSE OUT OF THIS PROJECT TO BE FREE OF ANY DIRT OR DEBRIS IN DRAIN PANS, CONDENSATE DRAINS, CONDENSING UNIT COILS, AND ETC.

ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.

PROVIDE EQUIPMENT SUPPORT PAD FOR ALL BASE MOUNTED EQUIPMENT. PAD SHALL BE 4" HIGH OR PREFABRICATED CONCRETE PAD FOR ALL CONDENSING UNITS, AND PACKAGE UNITS, 4" MINIMUM FROM EQUIPMENT EDGE TO END OF PAD ON ALL SIDES.

THE MECHANICAL CONTRACTOR SHALL CONFIRM ALL BREAKER AND DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING ANY EQUIPMENT FOR THIS PROJECT.

CONDENSATE DRAINS SHALL BE A MINIMUM OF 3/4" PVC PIPE. A P-TRAP SHALL BE INSTALLED IN PIPE AT THE UNIT. ALL CONDENSATE LINES SHALL BE ROUTED AS INDICATED ON PLANS.

INSTALL FLEXIBLE DUCT CONNECTION AT SUPPLY AND RETURN DUCTWORK CONNECTIONS TO ALL AIR HANDLING UNITS, FAN BOXES, ETC.

DESIGN CRITERIA NOTES:

ALL SUPPLY, RETURN, EXHAUST AND OUTDOOR AIR DUCTWORK (WITH THE EXCEPTION OF COMMERCIAL KITCHEN DUCTWORK) SHALL BE SIZED AT 0.08" PER 100'-0" OF DUCT FOR EXTERNAL STATIC PRESSURE. ALL DUCTWORK SHALL BE 1" WG PRESSURE CLASS.

ECONOMIZERS ARE REQUIRED FOR ANY HVAC SYSTEM WITH A COOLING CAPACITY OF 65,000 BTU/HR OR GREATER (NCECC C403.1)

CORRIDORS SHALL NOT SERVE AS SUPPLY, RETURN, EXHAUST, RELIEF OR VENTILATION AIR DUCTS; CORRIDORS MAY BE USED FOR MAKEUP AIR PROVIDED TO TOILET AREAS FOR EXHAUST MAKEUP PROVIDING THE CORRIDOR IS PROVIDED WITH AN OUTSIDE AIR RATE GREATER THAN THE MAKEUP REQUIRED FOR EXHAUST. WHERE LOCATED IN TENANT SPACES OF LESS THAN 1000 SQ/FT THE USE OF CORRIDORS FOR RETURN AIR IS PERMITTED. (NMC 601.2.1 & 601.2.3)

HVAC SYSTEM SHALL HAVE PROGRAMMABLE THERMOSTAT CAPABLE OF OFF HOUR CONTROLS (NIGHT SETBACK) TO MAINTAIN NO MORE THAN 85F OR NO LESS THAN 55F (NCECC C403.2.4.2.1, C403.2.4.2.5 & C403.2.4.2.3)

THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN AIR DUCT AT EACH UNIT IN ACCORDANCE WITH NORTH CAROLINA BUILDING CODE EDITION 2012. THE MECHANICAL CONTRACTOR TO WIRE FROM THE DETECTOR TO EACH UNIT.

DUCTWORK NOTES:

ALL DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL BE SUPPORTED FROM THE BUILDING SUPPORT STRUCTURE AND NOT THE ROOF.

ALL DUCT LAYOUT AND LOCATIONS ARE SHOWN DIAGNOMATIC. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE BUILDING CONDITIONS AND COORDINATE THE DUCT LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION.

ALL DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED.

VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW. TURNING VANES ARE REQUIRED IN ALL ELBOWS AND AIR DEFLECTION DEVICES WILL BE INSTALLED WHERE REQUIRED FOR A BALANCED SYSTEM. PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THRU WALLS.

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW AND SEALED WITH DUCT SEALER. ALL TAPES AND MASTICS USED SHALL LISTED WITH UL181A AND SHALL BE MARKED. (NMC (603.9) & NCECC (C403.2.9))

FLEXIBLE DUCT RUNS SHALL NOT EXCEED 12'-0" IN LENGTH. FLEXIBLE DUCT SHALL BE SUPPORTED EVERY 5'-0". MAXIMUM SAG IS 1/2 INCH PER FOOT OF SPACING BETWEEN SUPPORTS. SADDLE MATERIAL IN CONTACT WITH THE FLEXIBLE DUCT SHALL BE WIDE ENOUGH SO THAT IT DOES NOT REDUCE THE INTERNAL DIAMETER OF THE DUCT. THE SADDLE MUST COVER ONE-HALF THE CIRCUMFERENCE OF THE OUTSIDE DIAMETER OF THE FLEXIBLE DUCT AND FIT NEATLY AROUND THE LOWER HALF OF THE DUCT'S OUTER CIRCUMFERENCE.

PROVIDE PERMANENT MANUAL DAMPERS IN ALL SUPPLY AND RETURN AIR DUCTS AT THE MAIN TRUNK LINE FOR SYSTEM BALANCING. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR BALANCING THE AIR DISTRIBUTION SYSTEM AFTER THE SYSTEM HAS BEEN INSTALLED AND EQUIPMENT IS OPERATING. MANUAL DAMPERS ARE REQUIRED TO BE INSTALLED IN THE RETURN AIR DUCT IF THE DUCT IS RETURNING AIR FROM INDIVIDUAL ROOMS. MANUAL DAMPERS ARE NOT REQUIRED IF THE DUCT IS RETURNING AIR FROM CENTRALLY LOCATED FILTER/RETURN GRILLES.

THE OUTSIDE AIR INTAKE DUCTWORK SHALL BE HARD ROUND DUCT, FLEXIBLE DUCT WILL NOT BE ACCEPTED. SEE PLAN FOR DUCT SIZE.

ALL OUTSIDE AIR INTAKE DUCTS SHALL HAVE A FILTER BOX TO HOUSE A MINIMUM OF 16 IN. X 20 IN. X 2 IN. THICK FILTER, U.L.O. AT EACH AIR HANDLING UNIT EITHER IN THE ATTIC OR CRAWL SPACE. THE FILTER BOX SHALL HAVE A HINGED DOOR THAT IS GASKETED TO MAINTAIN A AIRTIGHT SEAL WITH A THUMBSCREW TO ACCESS THE FILTER.

THE OUTSIDE AIR FILTER SHALL BE THE HI-E 40 AS MANUFACTURED BY PUROLATOR PRODUCTS AIR FILTRATION COMPANY, OR APPROVED EQUAL AIR FILTER SHALL BE (2) TWO INCHES DEEP, MEDIUM EFFICIENCY, PLEATED MEDIA, DISPOSABLE PANEL TYPE. THE FILTER MEDIA SHALL BE SELF-EXTINGUISHING NON-WOVEN COTTON AND SYNTHETIC FIBERS. THE FILTER MEDIA SHALL BE BONDED TO A 28-GAUGE CORROSION RESISTANT, EXPANDED METAL SUPPORT GRID WITH A 95% OPEN FACE AREA.

DUCT/PIPING INSULATION NOTES:

ALL SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH MIN. **R-8.0** INSULATION UNLESS NOTED OTHERWISE IN THE DRAWING. NCECC (C403.2.9) ACCEPTABLE MANUFACTURERS ARE JOHNSON MANVILLE.

SUCTION PIPING TO AND FROM AIR HANDLING UNITS SHALL BE INSULATED WITH 1-1/2" THICK PIPE INSULATION IN ACCORDANCE WITH NCECC TABLE (C403.2.10).

ALL FLEXIBLE DUCT REQUIRING INSULATION SHALL HAVE A VALUE OF AT LEAST **R-8.0**. THE FLEXIBLE DUCT SHALL BE ATCO RUBBER PRODUCTS, INC. UPC NO. 036 OR APPROVED EQUAL WITH A REINFORCED METALLIZED POLYESTER JACKET. THE INNER CORE IS AIRTIGHT AND IS DESIGNED FOR LOW TO MEDIUM OPERATING PRESSURES IN HVAC SYSTEMS. AIR DUCT CONNECTIONS AND JOINTS SHALL BE MADE PER INSTALLATION INSTRUCTIONS OBTAINED BY ATCO.

OUTSIDE AIR INTAKE DUCTWORK AND EXHAUST DUCTWORK IS TO BE UNINSULATED.

Minimum R-8 In this zone

HEAT PUMP SCHEDULE																					
EQUIPMENT INFO			COOLING CAPACITIES				HEATING CAPACITIES			COMPRESSOR/CONDENSER SECTION				ELECTRICAL INFORMATION				MANUFACTURER/MODEL			
TAG	TYPE	LOCATION	NOM. TONS	TOTAL COOLING	MIN. IEER	MIN. EER	MIN. SEER	MIN. COP	UNIT CAPACITY	MIN. HSPF	NO. OF COMPR.	COMPRESSOR AMPS RLA	CONDENSER FAN AMPS FLA	NO. OF FANS	FAN HP	UNIT VOLTS	UNIT PHASE	MCA	MOCF	WIRE SIZE (CU. 75 C)	MANUFACTURER/MODEL
HP-1	SPLIT-SYSTEM HEATPUMP	GROUND	5.0	60,000	N/A	12.00	14.00	3.5	55,000	8.2	1	15.9	1.10	1	1/5	208	3	21.0	35	#8	TRANE / 4TWM406A3000A
HP-2	SPLIT-SYSTEM HEATPUMP	GROUND	3.5	42,000	N/A	12.00	14.00	3.5	38,000	8.2	1	13.5	1.10	1	1/5	208	3	18.0	30	#10	TRANE / 4TWM4042A3000A

AIR HANDLING UNIT SCHEDULE																	
EQUIPMENT INFO				INDOOR FAN SECTION						ELECTRICAL INFORMATION							MANUFACTURER/MODEL
TAG	TYPE	LOCATION	NOM. TONS	SUPPLY CFM	OA CFM	ESP INCHES	FAN TYPE	FAN HP	FAN RPM	FAN FLA	HEAT STRIPS	UNIT VOLTS	UNIT PHASE	MOCF	MCA	WIRE SIZE (DU. 75 C)	MANUFACTURER/MODEL
AHU-1	SPLIT-SYSTEM	ABOVE CEILING	5.0	2000	300	0.50	DIRECT	3/4	1050	6.0	7.20	208	1	60	51	#8	TRANE / TEM400C60S51SB
AHU-2	SPLIT-SYSTEM	ABOVE CEILING	3.5	1400	140	0.50	DIRECT	1/2	1050	4.1	7.20	208	1	50	48	#8	TRANE / TEM400C42S41SB

Does not match electrical drawings

EXHAUST/VENTILATION/MAKEUP FAN SCHEDULE																		
EQUIPMENT TYPE			FAN INFORMATION						ELECTRICAL INFORMATION								MFG & MODEL	
TAG	SERVICE	LOCATION	EXHAUST CFM	MAKEUP CFM	ESP IN WG	FAN DRIVE	FAN DIA.	SONES	RPM	FAN FLA	FAN HP	FAN WATT	UNIT VOLTS	UNIT PHASE	MOCF	MCA	WIRE SIZE (DU. 75 C)	MFG & MODEL
EF-1	TOILET EXHAUST	CEILING	70	N/A	0.125	DIRECT	N/A	2.0	1050	-	-	54	120	1	-	-	#12	GREENHECK / SP-870 OR EQUAL

GRILLE/RETURN SCHEDULE							
TAG	CFM	AIR PATTERN	FACE SIZE	NECK SIZE	SERVICE	MFG & MODEL	REMARKS
(A)	0-100	4-WAY	12X12	8"ø	SUPPLY	TITUS TDC OR EQUAL	LAY-IN; OFF WHITE; ALUM.
(B)	0-100	4-WAY	24X24	8"ø	SUPPLY	TITUS TDC OR EQUAL	LAY-IN; OFF WHITE; ALUM.
(C)	100-250	4-WAY	24X24	8"ø	SUPPLY	TITUS TDC OR EQUAL	LAY-IN; OFF WHITE; ALUM.
(D)	0-125	LOUVERED	24X24	8"ø	RETURN	TITUS PAR OR EQUAL	LAY-IN; OFF WHITE; ALUM.; FILTER
(E)	780-1125	LOUVERED	24X24	18X18	RETURN	TITUS PAR OR EQUAL	LAY-IN; OFF WHITE; ALUM.; FILTER
(F)	1125-1800	LOUVERED	24X24	22X22	RETURN	TITUS PAR OR EQUAL	LAY-IN; OFF WHITE; ALUM.; FILTER
(G)	125-225	LOUVERED	24X24	8"ø	RETURN	TITUS PAR OR EQUAL	LAY-IN; OFF WHITE; ALUM.; FILTER

HVAC LEGEND	
	SUPPLY/MAKEUP DUCTWORK WITH INSIDE SIZE NOTED
	RETURN/EXHAUST DUCTWORK WITH INSIDE SIZE NOTED
	SQUARE/RECTANGULAR SUPPLY/RETURN/EXHAUST TRANSITION
	ROUND/OVAL SUPPLY/RETURN/EXHAUST TRANSITION
	RADIUS TYPE SUPPLY/RETURN/EXHAUST DUCTWORK ELBOW
	SQUARE TYPE SUPPLY/RETURN/EXHAUST DUCTWORK ELBOW WITH TURNING VANES
	INCREASED AREA TAKEOFF WITH/WITHOUT VOLUME DAMPER
	LAY-IN/SURFACE SUPPLY DIFFUSER WITH TAG AND CFM NOTED
	SIDEWALL SUPPLY/RETURN/EXHAUST DIFFUSER WITH TAG AND CFM NOTED
	LAY-IN/SURFACE RETURN GRILLE WITH TAG
	ROUND DUCTWORK TURN UP/DOWN
	FLEXIBLE/RIGID AIR DUCT CONNECTOR WITH/WITHOUT VOLUME DAMPER
	HVAC EQUIPMENT WITH TAG: SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION

**APPENDIX B MECHANICAL DESIGN
2018 BUILDING CODE SUMMARY**

NORTHGATE

PROJECT NAME: _____

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE: PRESCRIPTIVE ENERGY COST BUDGET

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE: **ZONE 4A NORTH CAROLINA**
WINTER DRY BULB: 17.0° F
SUMMER DRY BULB: 87.0° F

INTERIOR DESIGN CONDITIONS
WINTER DRY BULB: 68°
SUMMER DRY BULB: 78°
RELATIVE HUMIDITY: 50%

BUILDING HEATING LOAD: 42,800 BTU'S
BUILDING COOLING LOAD: 101,100 BTU'S

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY
DESCRIPTION OF UNIT: **SPLIT SYSTEM HEAT PUMPS**
HEATING EFFICIENCY: 8.2 HSPF (8.2 HSPF MINIMUM STANDARD EFFICIENCY, TABLE C403.2.3 (2))
COOLING EFFICIENCY: 14.0 SEER (14.0 SEER MINIMUM STANDARD EFFICIENCY, TABLE C403.2.3 (2))
SIZE CATEGORY OF UNIT: (1) 5.0 & (1) 3.5 TON (< 65,000 BTU/H)

BOILER
SIZE CATEGORY: IF OVERSIZED, STATE REASON: _____

CHILLER
SIZE CATEGORY: IF OVERSIZED, STATE REASON: _____

LIST EQUIPMENT EFFICIENCIES: _____

DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE INTERNATIONAL ENERGY CODE. THE HVAC UNIT QUALITIES AS MORE EFFICIENT MECHANICAL EQUIPMENT DESCRIBED IN THE CODE.

SIGNED: _____
NAME: _____
TITLE: **ENGINEER**

QUICKDRAFT

DRAFTING &
DESIGN
(910) 574-4901

10-25-21

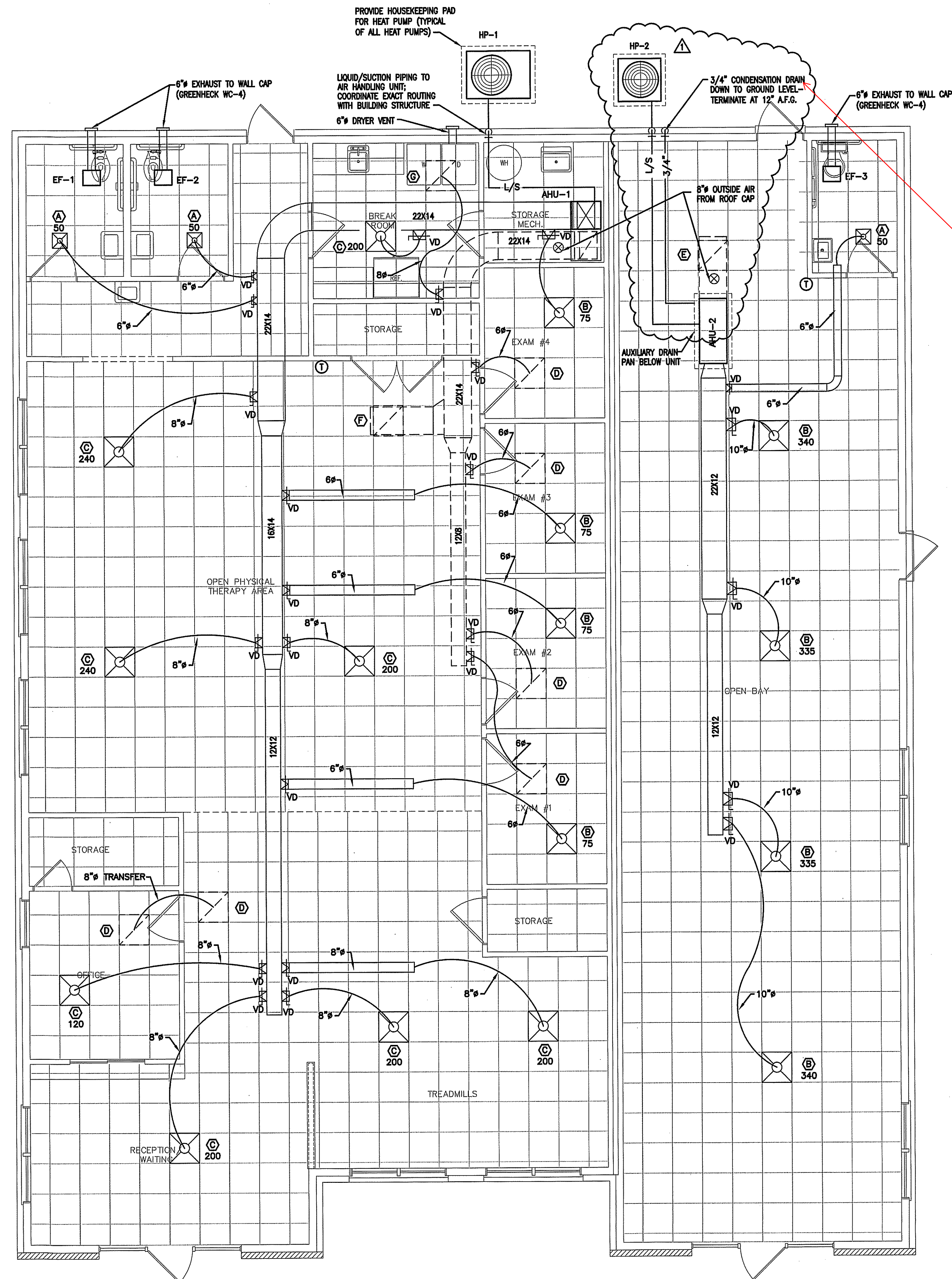
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FINAL DRAWING FOR CONSTRUCTION

NORTHGATE

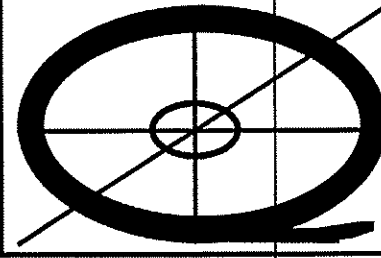
CAMERON NORTH CAROLINA

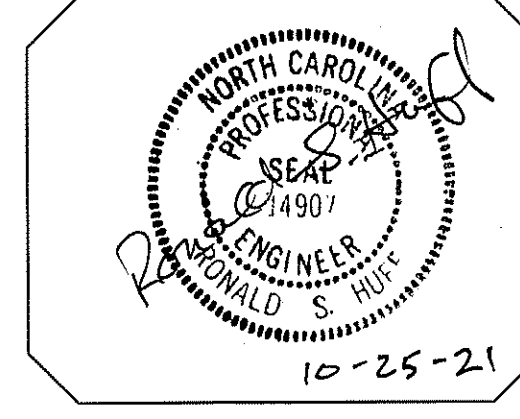
PROJECT NO: 21003
DRAWN BY: J.PARRISH
DATE: 04-15-2021
10-07-2021

SHEET NO:
M1



All condensate in unconditioned spaces shall be insulated to min. R-6.5

QUICKDRAFT

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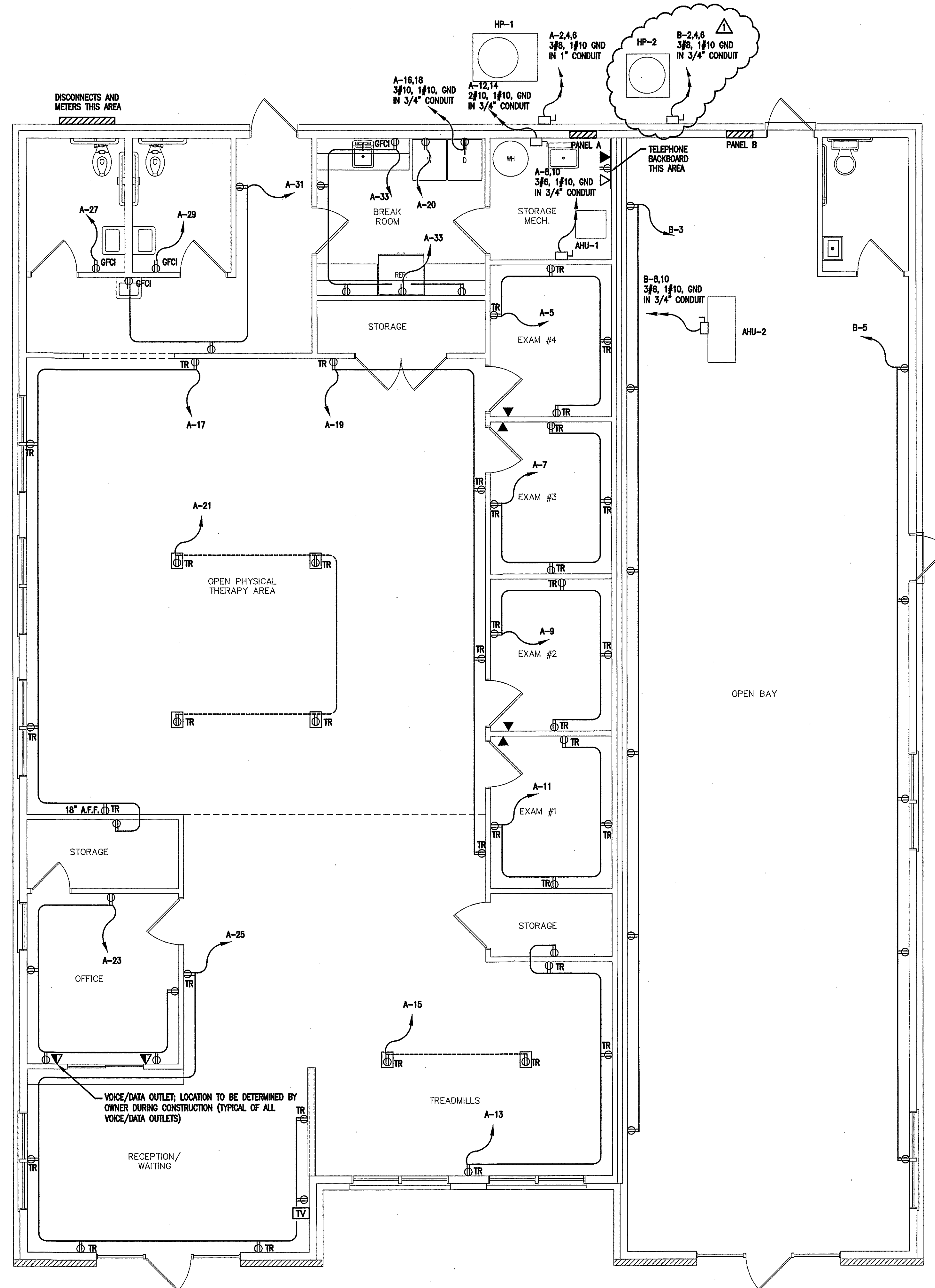
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NORTHGATE
 CAMERON NORTH CAROLINA

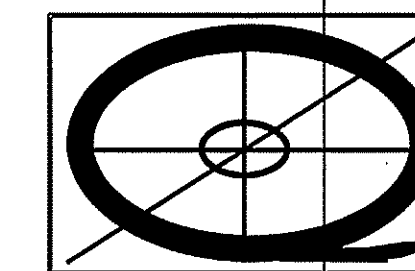
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 DRAWN BY: J.PARRISH
 DATE: 04-15-2021
 10-07-2021

SHEET NO:
M2

1 HVAC FLOOR PLAN
 M2 SCALE: 1/4" = 1'-0"

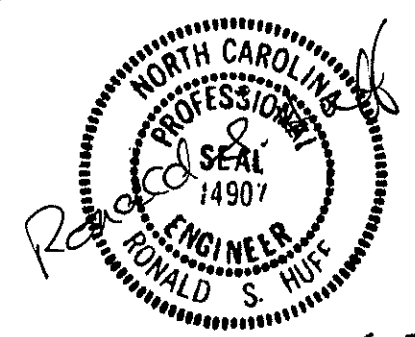


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PROJECT NO: 21003
 DRAWN BY: J.PARRISH
 DATE: 04-15-2021
 10-07-2021

SHEET NO:

E2

1 ELECTRICAL FLOOR PLAN - POWER
 E2 SCALE: 1/4" = 1'-0"

