NORTH CAROLINA BUILDING CODE SUMMARY

ALZHEIMER ADDITION / 33 BEDS CONVERSION

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: LIBERTY HEALTHCARE AND REHABILITATION - 33 BEDS ALZHEIMER CONVERSION / ADDITION

Address: 901 RIDGE ROAD - ROXBORO, NORTH CAROLINA Zip Code: 27573

Owner/Authorized Agent: ROBERT MCNEILL Phone 910-840-6154 E-mail rmcneill@libertyhcare.com

Owned By: ☐ City/County ☒ Private ☐ State

Code Enforcement Jurisdiction: ☐ City _____ ☒ County PERSON ☐ State

DESIGNER OF RECORD:

LEAD DESIGN PROFESSIONAL: DAVID R. POLSTON, ARCHITECT

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	DAVID R. POLSTON, ARCH.	DAVID R. POLSTON	3275	(910) 350-8000	ppolston1@bellsouth.net
Civil					
Electrical	DAVID SMITH & ASSOC.	DAVID SMITH	7138	(910) 791-8676	office@dsaeng.com
Fire Alarm	DAVID SMITH & ASSOC.	DAVID SMITH	7138	(910) 791-8676	office@dsaeng.com
Plumbing	DAVID SMITH & ASSOC.	DAVID SMITH	7138	(910) 791-8676	office@dsaeng.com
Mechanical	DAVID SMITH & ASSOC.	DAVID SMITH	7138	(910) 791-8676	office@dsaeng.com
Sprinkler-Standpipe	DESIGN / BUILD BY SPRINKLER CONTRACTOR				
Structural	HAUSER-CREECH	THEODORE A. DETERS	048480	(919) 871-7875	tad@hauser-creech.com
Retaining Walls > 5' High					
Other					

2018 EDITION OF NC CODE: ☐ New Construction ☐ Addition ☐ Renovation

2018 NC EXISTING BUILDING CODE: ☐ Alteration ☒ Repair ☐ Renovation

CONSTRUCTED: (date) 2000 CURRENT OCCUPANCY(S) (CH.3) I-2

RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (CH.3) I-2

OCCUPANCY CATEGORY (table 1604.5) Current _____ Proposed _____

BASIC BUILDING DATA:

Construction Type: ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B ☐ IV ☒ V-A ☐ V-B

Sprinklers: ☐ No ☐ Partial ☒ Yes ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Fire District: ☒ No ☐ Yes (Primary) Flood Hazard Area: ☐ No ☐ Yes

Special Inspections Required: ☒ No ☐ Yes

Gross Building Area Table:

FLOOR:	EXISTING (SQFT.)	NEW (SQFT.)	RENO. / ALTER (SQFT.)	SUB-TOTAL
3rd Floor				
2nd Floor				
1st. Floor	42,382 S.F.	2,324 S.F.	Ø S.F.	44,706 S.F.
Mazanine				
Basement				
Total	42,382 S.F.	2,324 S.F.	Ø S.F.	44,706 S.F.

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-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ S-3 High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): AS SHOWN ON PLAN

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-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☒ S-1 Moderate ☐ S-2 Low ☐ S-3 High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Incidental Uses (Table 509): _____

Special Uses (Chapter 4 – List Code Selections): SECTION 407

Special Provisions (Chapter 5 – List Code Selections): N/A

Mixed Occupancy: ☐ No ☒ Yes Seperation ____ Hr. Exception: _____

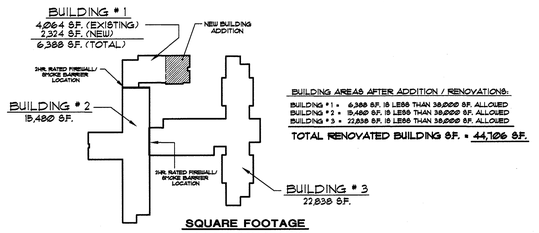
☒ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Seperated Use (508.4) – See below for area calcs.
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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} + \ldots\ldots\ldots = \frac{\quad}{\quad} \leq 1.00$$

	STORY NO.	DESCR. AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA[4]	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]	
BUILDING "1"	1	I-2	6,388 S.F.	38,000 S.F.	———	42,825 S.F.	TYPE VA
BUILDING "2"	1	I-2	15,480 S.F.	38,000 S.F.	———	38,000 S.F.	TYPE VA
BUILDING "3"	1	I-2	22,838 S.F.	38,000 S.F.	———	38,000 S.F.	TYPE VA



SQUARE FOOTAGE BREAKDOWN KEY

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET (Table 504.3)	60'	12'	TABLE 504.3
BUILDING HEIGHT IN STORIES (Table 504.4)	1	1	TABLE 504.4

FIRE PROTECTION REQUIREMENTS

LIFE SAFETY PLAN SHEET NO., IF PROVIDED _____

BUILDING ELEMENT	FIRE SEPERATION DISTANCE (FEET)	RATING REQ'D.	RATING PROVIDED (W/ REDUCTION)	DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED ASSEMBLY	DESIGN NO. FOR RATED PENETRATION	DESIGN NO. FOR RATED JOINTS
Structural frame, including columns, girders, and trusses							
Bearing walls							
Exterior	> 30'	Ø-HR.	1-HR.		U-305		
North	> 30'	Ø-HR.	1-HR.		U-305		
East	> 30'	Ø-HR.	1-HR.		U-305		
West	> 30'	Ø-HR.	1-HR.		U-305		
South	> 30'	Ø-HR.	1-HR.		U-305		
Interior	N/A	Ø-HR.	1-HR.		U-305		
Nonbearing walls and partitions Exterior walls							
North	> 30'	Ø-HR.	1-HR.		U-305		
East	> 30'	Ø-HR.	1-HR.		U-305		
West	> 30'	Ø-HR.	1-HR.		U-305		
South	> 30'	Ø-HR.	1-HR.		U-305		
Interior walls	N/A	Ø-HR.	1-HR.		U-305		
Floor construction including supporting beams and joists	CONCRETE SLAB ON GRADE						
Floor Ceiling Assembly	N/A	Ø-HR.	Ø-HR.				
Column Supporting Floor	N/A	N/A	N/A				
Roof construction including supporting beams and joists							
Roof Ceiling Assembly	N/A	1-HR.	1-HR.		RC-2602		
Column Supporting Roof	N/A	Ø-HR.	Ø-HR.				
Shafts – Exit	N/A	N/A	N/A		———		
Shafts – Other	N/A	1-HR.	1-HR.		———		
Corridor Seperation	N/A	Ø-HR.	Ø-HR.		U-305		
Occup./Fire Barrier Sep.	N/A	1-HR.	1-HR.		U-305		
Party/Fire Wall Sep.	N/A	2-HR.	2-HR.		U-301		
Smoke Barrier Sep.	N/A	1-HR.	1-HR.		U-305		
Tenant/Dweiling Unit/ Sleeping Unit Seperation	N/A	Ø	Ø				
Incidental Use Sep.	N/A	1-HR.	1-HR.		U-305		

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☐ No ☒ Yes
Smoke Detection Systems: ☐ No ☒ Yes ☐ Partial _____
Panic Hardware: ☐ No ☒ Yes

LIBERTY HEALTHCARE
ROXBORO
901 Ridge Road
Roxboro, North Carolina 27573

BUILDING RENOVATIONS
ALZHEIMER UNIT ADDITION /
33 BED ALZHEIMER CONVERSION

SCHEDULE OF DRAWINGS:

T 1- COVER SHEET - APPENDIX B

CIVIL

C 1- SITE PLAN

STRUCTURAL

S 1.1- FOUNDATION PLAN
S 2.1- FRAMING PLAN
S 3- STRUCTURAL DETAILS
S 4- STRUCTURAL DETAILS
S 5- STRUCTURAL DETAILS
S 6- STRUCTURAL DETAILS / SPECIAL INSPECTIONS REQUIREMENTS

ARCHITECTURAL

A 1- EXISTING BUILDING COMPOSITE PLAN
A 2- COMPOSITE PLAN WITH ALZHEIMER ADDITION
A 3- TEMPORARY EXIT PLANS / RESIDENT SAFETY REQUIREMENTS DURING CONSTRUCTION
A 4- 1/4" SCALE PLAN / ROOM FINISH SCHEDULE / DOOR AND FRAME SCHEDULE
A 5- INTERIOR ELEVATIONS AND DETAILS
A 6- EXTERIOR ELEVATIONS / MISC. CONSTRUCTION DETAILS
A 7- WALL SECTIONS

PLUMBING

P 1- PLUMBING COMPOSITE PLAN WITH ALZHEIMER ADDITION
P 2- ALZHEIMER STAFF SUPPORT AREA PLUMBING PLAN
P 3- PLUMBING SCHEDULES AND SPECIFICATION

MECHANICAL

M 1- MECHANICAL COMPOSITE PLAN WITH ALZHEIMER ADDITION
M 2- ALZHEIMER STAFF SUPPORT AREA - VENTILATION PLAN / MECHANICAL PLAN
M 3- MECHANICAL SCHEDULES AND SPECIFICATIONS

ELECTRICAL

E 1- ELECTRICAL COMPOSITE PLAN WITH ALZHEIMER ADDITION
E 2- LIGHTING DEMOLITION PLAN / POWER DEMOLITION PLAN
E 3- ALZHEIMER STAFF SUPPORT AREA LIGHTING PLAN / ALZHEIMER STAFF SUPPORT AREA POWER PLAN
E 4- PANEL SCHEDULES / RISERS / SPECIFICATIONS
E 5- LOW VOLTAGE PLAN AND DETAILS

DAVID R. POLSTON REGISTERED ARCHITECT 3275 NORTH CAROLINA WILMINGTON, N.C.

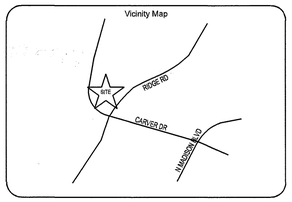
E.I.B. 2018

LIBERTY HEALTHCARE
ROXBORO
Roxboro, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite C, Wilmington, NC 28403
Architecture Planning Design

BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

T 1



Surveyor Notes

a) The accompanying survey was made on the ground and correctly shows the location of all buildings, structures and other improvements situated on the above premises; that there are no visible encroachments on the subject property or upon the land abutting said property.
b) This map or plat and the survey on which it is based were made in accordance with laws regulating surveying in the state of North Carolina.
c) The property described herein is the same property described in Chicago Title Insurance Company; Commitment # 24-NC-31344, Dated October 24, 2025 at 12:00 AM, and all easements, covenants and restrictions referenced in said title commitment or apparent from a physical inspection of the site or otherwise known to me have been plotted hereon or otherwise noted as to their effect on the subject property.
d) Except as shown, all visible utilities serving the subject property enter through adjoining public street(s) and/or recorded public utility easement(s).
e) The surveyor currently is covered by a professional liability policy in the amount of $1 million.
f) The subject property has direct vehicular and pedestrian access to Ridge Road, being a dedicated public right-of-way. The subject property has indirect vehicular and pedestrian access to Williams Road, being a dedicated public right-of-way, via access easement. Said public right-of-ways are maintained by North Carolina and/or Person County Public Works.
g) No apparent evidence of cemeteries or burial grounds observed on site.
h) There are no party walls or visible encroachments on said described property by streets, alleys or buildings, structures or other improvements situated on adjoining property, except as shown on the survey.
i) No apparent evidence of wetland delineation markers were observed on site at time of survey.
j) This property forms a mathematically closed figure and is contiguous with adjacent parcels with no apparent gaps, gores or overlaps.
k) Note to the client, insurer, and lender - With regard to Table A, item 11, information from the sources checked above will be combined with observed evidence of utilities pursuant to Section 5.E.iv. to develop a view of the underground utilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response, in which case the surveyor shall note on the plat or map how this affected the surveyor's assessment of the location of the utilities. Where additional or more detailed information is required, the client is advised that excavation may be necessary.
l) Bearing Basis: North adopted from Grid North.

Parcel Info

Owner: Liberty Healthcare Properties of Person County, LLC
Address: 901 Ridge Rd, Roxboro, NC 27573

Parcel ID # 132 8 (Parcel 1)
132 24 (Parcel 2)
Deed Book 272, Page 106

Area

216,414 SqFt±
4.97 Acres±

Parking Count

91 Regular Parking Spaces
4 Handicap Parking Spaces

95 Total Parking Spaces

Encroachment

(A) Potential 9.6' sign encroachment as shown hereon.
(B) Potential 1.6' asphalt encroachment as shown hereon.

Table of Utility Providers

Telephone:
Century Link Inc.
PO Box 4300
Carol Stream, IL 60197-4300
800-603-6000

Power:
Duke Energy Carolinas
525 South Tryon Street
Charlotte, NC 28202
866-582-6345

Sewer/Water:
City of Roxboro
PO Box 128
Roxboro, NC 27573
336-599-5658

Television:
AllBridge, LLC dba Bulk TV
6880 Perry Creek Rd.
Raleigh, NC 27616
877-285-5881

Zoning

ZONING REPORT PREPARED BY Bureau Veritas
(PROJECT #170506.24R000-001.259) AND DATED November 4, 2024
DISCLOSES THE FOLLOWING:

EXISTING ZONING DESIGNATION: "B-2" Neighborhood Business District

BUILDING HEIGHT REQUIREMENTS: 35 FEET

SETBACK REQUIREMENTS:
FRONT SETBACK 30 FEET
SIDE SETBACK 10 FEET
REAR SETBACK 20 FEET

PARKING REQUIREMENTS
Minimum:
Assisted living/nursing home: 1 space per 5 beds
70 beds/5 =14 spaces
Maximum:
For any use listed under the multi-family, commercial, industrial, or office and institutional use classification, the number of off-street parking spaces shall not exceed 140% of the minimum number of parking spaces required.
14 spaces x 140% = 20 spaces
TOTAL PARKING REQUIRED: 14 PARKING SPACES
MAXIMUM ALLOWED PARKING SPACES: 20 PARKING SPACES

Surveyor's Review of Special Exceptions

Surveyor's review of Chicago Title Insurance Company
Commitment # 24-NC-31344, Dated October 24, 2025 at 12:00 AM.

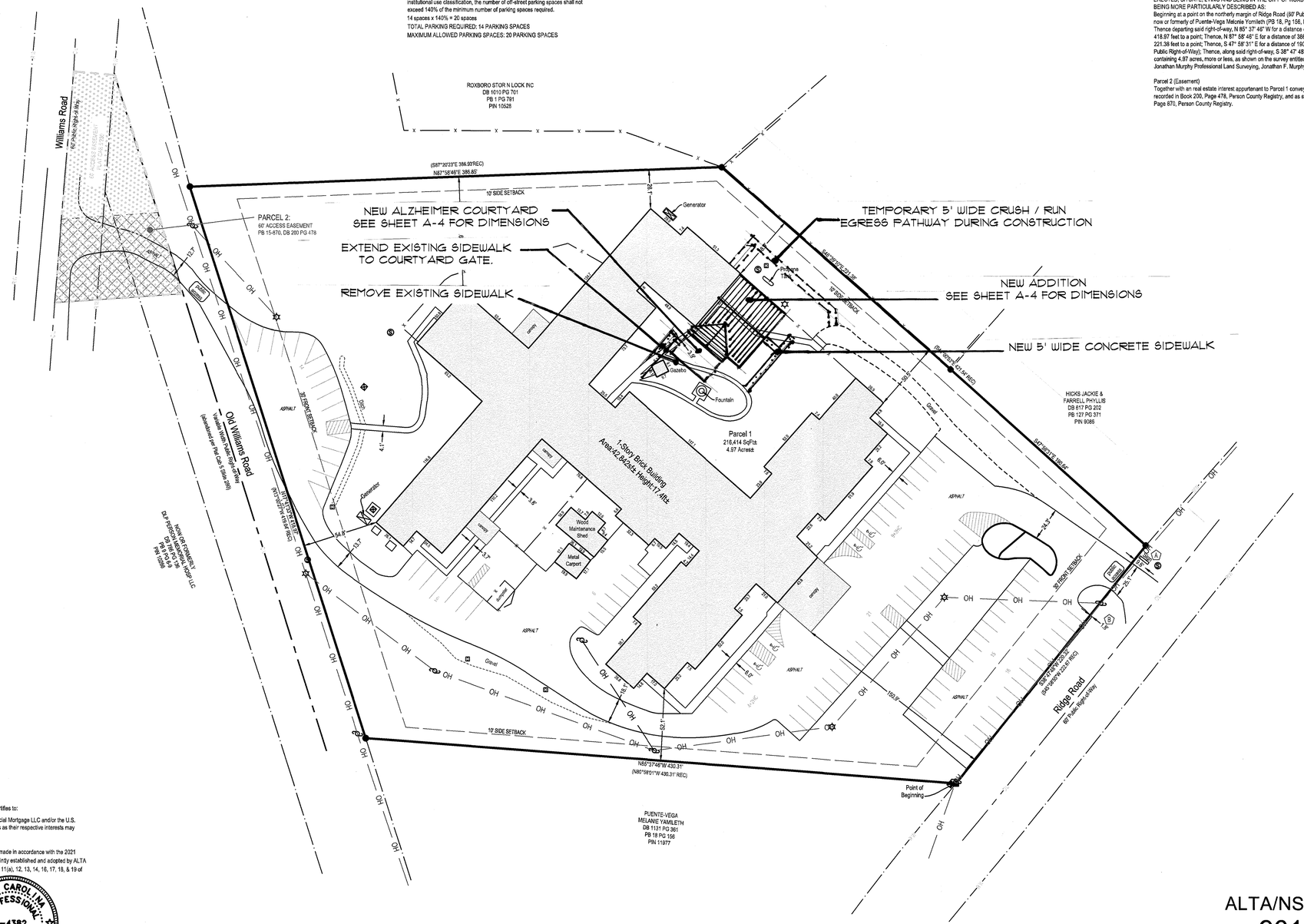
Schedule B - Section II
Items 1-2 Standard Exceptions.
3. Building restriction lines, easements, rights of way or any other facts as shown on plat recorded in Plat Book 15, Page 870; Plat Book 5, Page 280 (Easement), Person County Registry.
Location is shown.
4. **Intentionally Deleted.**
5. Rights of others to ingress and egress over and across that certain non-exclusive easement for ingress and egress described in Deed of Easement dated November 9, 1988 and recorded in Book 200, Page 478, Person County Registry, and the rights of others in and to the use of the easement(s) for ingress and egress described therein, (as to Parcel 2 only).
Location is shown.
Items 6-7 Standard Exceptions.

Description

Parcel 1
Beginning at a concrete monument in the northwestern margin of the right-of-way of Ridge Road (60 foot right-of-way) said concrete monument being the northeastern corner of the property of Dr. Mark A Pifer (now or formerly) as described in Deed Book 237, Page 870 in the Person County Public Registry (hereinafter the "Registry"); thence, with and along the northern boundary line of the property of Dr. Mark A. Pifer, N. 80-58-01 W. 430.31 feet to an iron found in the eastern margin of the right-of-way of abandoned Old State Road 1364; thence, with and along the eastern margin of abandoned Old State Road 1364, N. 13-00-27 W. 419.04 feet to an iron found in the southern boundary line of the property of the J.F. Dunn Estate (now or formerly) as described in Deed Book 223, Page 376 in the Registry; thence, with and along the southern boundary line of the property of the J.F. Dunn Estate, S. 87-20-23 E. 386.93 feet to a concrete monument, a common corner of the property of the J.F. Dunn Estate and Roxboro Stor-N-Lock (now or formerly) as described in Deed Book 251, Page 572 in the Registry; thence, with and along the boundary line of the property of Roxboro Stor-N-Lock and continuing with and along the boundary line of the property of Lennie J. Blalock (now or formerly) as described in Deed Book 127, Page 368 in the Registry, S. 44-00-53 E. 421.54 feet to a concrete monument in the northwestern margin of the right-of-way of Ridge Road; thence, with and along the northwestern margin of the right-of-way of Ridge Road, S. 45-58-55 W. 222.67 feet to a concrete monument, the point and place of Beginning, and containing 5.03 acres, more or less, as shown on a Plat of Survey of Triad Properties of Roxboro, Inc. prepared by Hamlett-Jennings & Associates, P.A., Neil C. Hamlett, NCRLS dated October 17, 1997.

ALSO KNOWN AS ALL THAT CERTAIN LOT, PIECE OR PARCEL OF LAND, WITH BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE CITY OF ROXBORO, PERSON COUNTY, STATE OF NORTH CAROLINA, AND BEING MORE PARTICULARLY DESCRIBED AS:
Beginning at a point on the northerly margin of Ridge Road (60' Public Right-of-Way), said point being the common corner of the lands now or formerly of Puente-Vega Melanie Yamileth (PB 18, Pg 156, Person County Records) and the subject property described herein; Thence departing said right-of-way, N 85° 37' 46" W for a distance of 430.31 feet to a point; Thence, N 17° 41' 33" W for a distance of 418.87 feet to a point; Thence, N 87° 58' 46" E for a distance of 386.85 feet to a point; Thence, S 48° 39' 10" E for a distance of 221.38 feet to a point; Thence, S 47° 58' 31" E for a distance of 160.64 feet to a point on the northerly margin of Ridge Road (60' Public Right-of-Way); Thence, along said right-of-way, S 38° 47' 48" W for a distance of 220.32 feet to the point of beginning, containing 4.97 acres, more or less, as shown on the survey entitled, "ALTA/NSPS Land Title Survey 901 Ridge Road" prepared by Jonathan Murphy Professional Land Surveying, Jonathan F. Murphy, PLS, dated November 20, 2024.

Parcel 2 (Easement)
Together with an real estate interest appurtenant to Parcel 1 conveyed by that Deed of Easement dated November 9, 1988 and recorded in Book 200, Page 478, Person County Registry, and as shown on Plats recorded in Plat Book 5, Page 280 and Plat Book 15, Page 870, Person County Registry.



Fema Notes

Per review of FEMA FIRM Panel No. 3720090600K, Effective date: 12/6/2019, this parcel is not in a Special Flood Hazard Area and is designated as "Zone X".

LEGEND

- Pole / Guy
- Light Pole
- Floodlight
- Electric Meter
- Electric Apparatus
- Electric Manhole
- Telecom Manhole
- Telecom Pedestal
- Handhole
- Curb Inlet
- Yard Inlet W/Grate
- Storm Junction Box
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- Grease Trap
- Gas Assembly
- Well / Bore Hole
- Water Meter
- Water Valve
- Hydrant
- Water Main Manhole
- Sign / Large Sign
- Handicapped Space
- Buried Utility Marker
- Tree
- Bollard
- Boundary Point Found
- Boundary Point Set
- Mathematical Point
- Horizontal Control Point
- Temporary Benchmark
- Concrete Monument

LINETYPES

- Boundary Line
- Adjacent Boundary
- Easement/Right-of-Way
- Overhead Utility Line
- Fence Line
- Approx. Woods Line
- Gas Line Marking
- E — Electric Line Marking
- T — Telecom Line Marking
- W — Water Line Marking
- SD — Storm Drainage Pipe
- SS — Sanitary Sewer Pipe
- Major Contour Line
- Minor Contour Line

JONATHAN MURPHY
Professional Land Surveyor
Office: (919) 787-7873
Email: Raleigh@MurphyGeomatics.com
4650 Paragon Park Road,
Raleigh, NC 27616

Roxboro Healthcare and Rehabilitation Center
901 Ridge Road, Roxboro, NC 27573
FHA # 053-22288

ALTA Certification

The undersigned, being a registered surveyor of the state of North Carolina certifies to:

(I) Liberty Healthcare Properties of Person County, LLC; (II) Barkadia Commercial Mortgage LLC and/or the U.S. Department of Housing and Urban Development, its successors and/or assigns as their respective interests may appear; (III) Chicago Title Insurance Company; & (IV) Standard Title, LLC:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 10, 11(a), 12, 13, 14, 16, 17, 18, & 19 of Table A thereof. The fieldwork was completed on 11/3/2025.

Jonathan F. Murphy, L-4382
Date of Plat or Map: 11/6/2025

11/7/2025
Date

NORTH CAROLINA PROFESSIONAL L-4382 LAND SURVEYOR JONATHAN F. MURPHY

ALTA Notes

6.) Zoning information provided by client.
11.) All evidence of utilities observed at the time of the survey shown hereon.
13.) Adjacent owners and public right of way information identified hereon.
16.) No evidence of recent earth moving work, building construction, or building additions observed on site.
17.) No changes in street right of way lines observed on or adjacent to site.
18.) All plottable offsite easements or servitudes per title commitment referenced hereon shown on survey.

Sheet 1 of 1
ALTA/NSPS Land Title Survey
901 Ridge Road
City of Roxboro, Person County, North Carolina
November 2025 - Scale 1"=40'

40 0 20 40 80 160
BAR GRAPH: 1 inch =40.0ft.

File Name:NC ROXBORO 901 RIDGE RD (2025).DWG

NOTES:

1. PROVIDE 4" CONCRETE SLAB ON GRADE REINFORCED W/ WWF 6x6-W1.4xW1.4 OVER 10 MIL POLY VAPOR BARRIER (LAP EDGES 6" MIN.) OVER 4" POROUS BASE.ALL DIMENSIONS REFERENCED TO CENTERLINE OF COLUMNS, FACE OF EXTERIOR VENEER, AND CENTERLINE OF INTERIOR BEARING WALLS. SEE ARCHITECTURAL AND STRUCTURAL SECTIONS TO DETERMINE EDGE OF SLAB. VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
2. TOP OF EXTERIOR FTG. = F.F.E. -1'-4" AND FIN. GRADE -1'-0" (MIN.)
3. SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN.
4. SEE DETAIL 5/S-3 FOR RECESSED SLAB DETAILS.
5. SEE DETAIL 1/S-3 FOR SLAB CONTROL JOINTS (CJ), ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
6. SEE ARCHITECTURAL DRAWINGS. FOR LOCATIONS OF RECESSED AND/OR SLOPED SLAB AREAS. PROVIDE POSITIVE DRAINAGE FROM ALL PERIMETER WALLS TO FLOOR DRAIN. COORDINATE W/ PLUMBING DWGS. SEE DETAIL 5/S-3.
7. LOCATE CONTROL JOINTS UNDERNEATH NON-BEARING WALLS WHERE POSSIBLE.
8. PROVIDE (4) 2X6 @ EXT. WALLS, (5) 2X4 @ INT. WALLS BEARING (MIN.) AT ALL GIRDER TRUSSES BEARING POINTS AND SHEARWALL END POSTS W/ SIMPSON HTT4 AT STUD BASE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
10. SEE FOOTING SCHEDULE FOR SIZES AND REINFORCING.
11. OMITTED
12. ALL EXTERIOR STUDS SHALL BE 2x6 SPF NO. 2 STUDS AT 16" O.C. ALL INTERIOR STUDS AT BEARING WALLS AND SHEAR WALLS SHALL BE (2) 2x4 SPF NO. 2 STUDS AT 16" O.C.
13. PROVIDE (2) 6'-0" LONG #5 BARS AT RE-ENTRANT CORNERS, PLACE AT MID-DEPTH OF SLAB.
14. INTERIOR FOOTING DIMENSIONS SHOULD NOT BE USED TO LOCATE INTERIOR WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL INTERIOR WALL DIMENSIONS.

"SHEARWALL" DESIGNATES INTERIOR 2X4 STUDS SHEATHED W/ MINIMUM 7/16" OSB. PROVIDE HORIZONTAL 2x BLOCKS AT ALL UNSUPPORTED JOINTS. EDGE NAIL WITH 8d COMMONS AT 4" O.C. AND FIELD NAIL WITH 8d COMMONS AT 12" O.C.

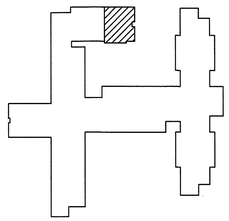
WRAP ALL EXTERIOR WALLS WITH MINIMUM 7/16" OSB. PROVIDE HORIZONTAL 2x BLOCKS AT ALL UNSUPPORTED JOINTS. EDGE NAIL WITH 8d COMMONS AT 4" O.C. AND FIELD NAIL WITH 8d COMMONS AT 12" O.C.

***EXISTING CONFIGURATIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. NOTIFY EOR OF ANY DISCREPANCIES.

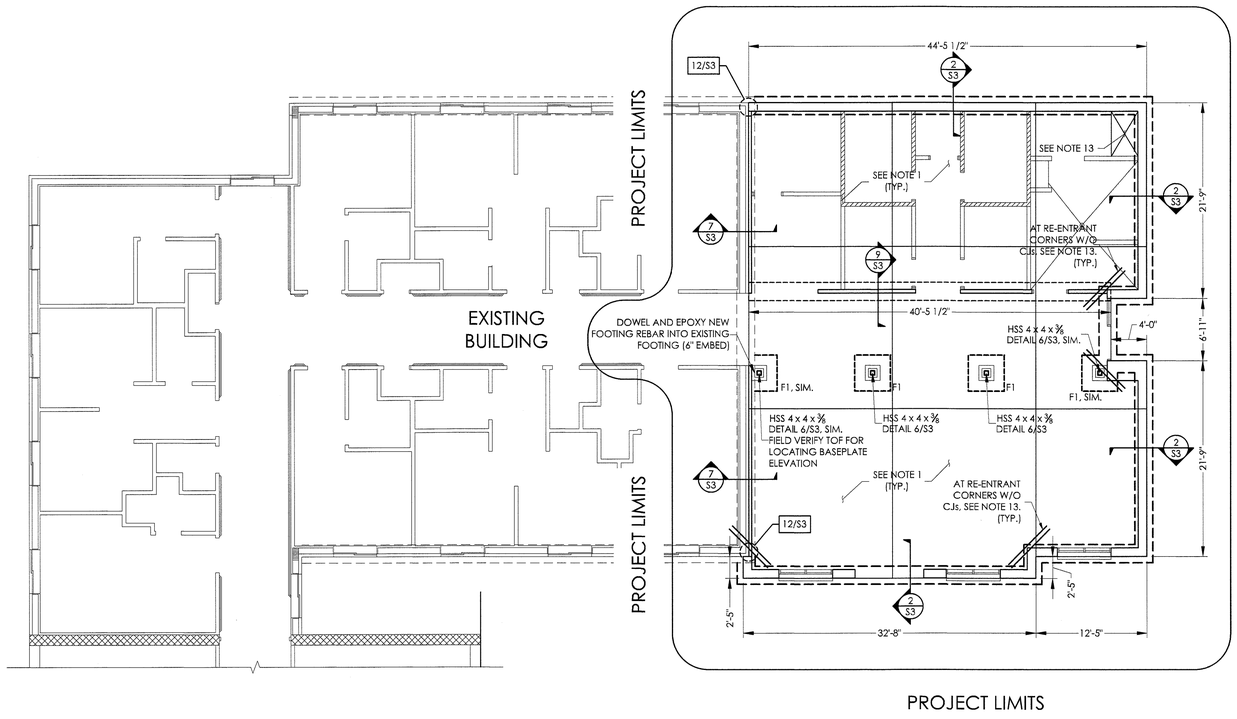
***CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING OF ALL SUPPORTS DURING CONSTRUCTION. TEMPORARY WALLS OR BEAMS WITH SCREW JACKS ARE ACCEPTABLE METHODS OF SHORING

FOOTING SCHEDULE

TYPE	SIZE	REBAR
F1	4'-0" X 4'-0" X 1'-0"	(4) #5s (3'-6" LONG) E.W.



KEY PLAN



FOUNDATION PLAN

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

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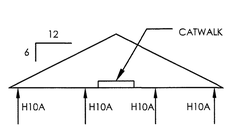


WEB MEMBERS NOT SHOWN

* ALL TRUSS PROFILES ARE NOT SHOWN.
* BOTTOM CHORD RECESSES ARE NOT SHOWN FOR CLARITY. SEE PLANS FOR LOCATIONS OF RECESSES.

TRUSS TYPE "E"

INTERIOR WALLS LABELED "SHEARWALL" DESIGNATES INTERIOR 2X4 STUDS SHEATHED W/ WITH MINIMUM 7/16" OSB ON ONE SIDE OF WALL. PROVIDE HORIZONTAL 2x BLOCKS AT ALL UNSUPPORTED JOINTS. PROVIDE 8d NAILS AT 6" O.C. AT ALL PANEL EDGES, 12" O.C. @ INTERMEDIATE FRAMING.

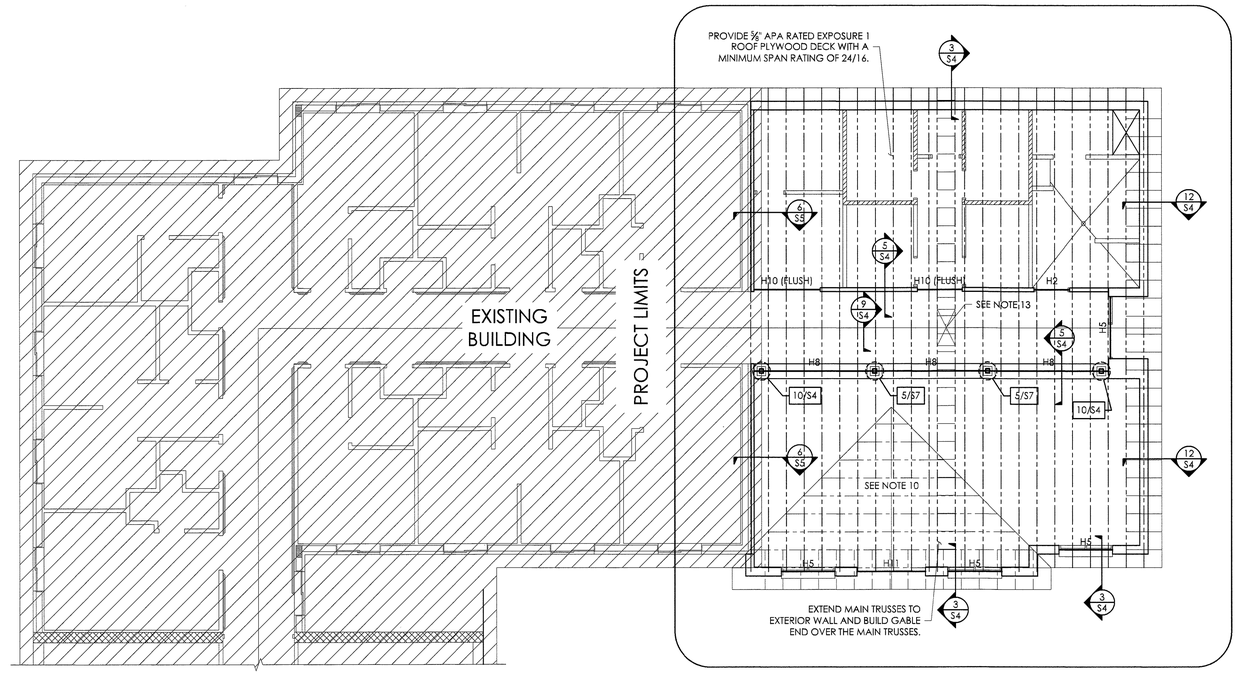
WRAP ALL EXTERIOR WALLS WITH MINIMUM 7/16" OSB. PROVIDE HORIZONTAL BLOCKS AT ALL UNSUPPORTED JOINTS. PROVIDE 8d NAILS AT 6" O.C. AT ALL PANEL EDGES, 12" O.C. @ INTERMEDIATE FRAMING.

***EXISTING CONFIGURATIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. NOTIFY EOR OF ANY DISCREPANCIES.

***CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING OF ALL SUPPORTS DURING CONSTRUCTION. TEMPORARY WALLS OR BEAMS WITH SCREW JACKS ARE ACCEPTABLE METHODS OF SHORING

NOTE: ALL INTERIOR BEARING STUDS SHALL BE (2) 2X4'S @ 16" O.C., U.N.O.

PROJECT LIMITS



PHASE ONE PARTIAL FRAMING PLAN

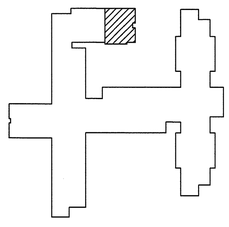
SCALE: 1/8"=1'-0"

NOTES:

1. ALL TRUSS SPACING IS AT 2'-0" O.C. UNLESS NOTED OTHERWISE. SPACE TRUSSES AT ATTIC ACCESS DOORS TO ALLOW FOR PROPER INSTALLATION.
2. TRUSS FABRICATOR SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND COORDINATE WITH BEARING WALL AND BEAM LOCATIONS. ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
3. THE CONTRACTOR MUST VERIFY THAT ALL LATERAL BRACING REQUIRED FOR TRUSS WEBS IS INSTALLED PER THE TRUSS SHOP DRAWINGS AND DETAIL 4/S-5.
4. REFER TO FOUNDATION PLAN FOR DIMENSIONS AND TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
5. DESIGN ROOF TRUSSES FOR ADDITIONAL MECHANICAL, SPRINKLER, AND ARCHITECTURAL LOADS AS REQUIRED.
6. ALL TRUSS TO TRUSS CONNECTIONS SHALL BE SPECIFIED BY THE TRUSS DESIGNER AND SHALL BE CLEARLY INDICATED ON THE TRUSS SHOP DRAWINGS.
7. SEE DETAIL 7/S-4 OR 8/S-4 FOR ROOF DECK NAILING PATTERN.
8. PROVIDE L6x4x5/16 MIN. LOOSE LAID BRICK LINTEL WITH 4" BEARING ABOVE ALL OPENINGS UP TO 8'-0" WHERE OPENINGS EXCEED 8'-0" PROVIDE L6x4x1/2 LINTEL BOLTED DIRECTLY TO HEADER WITH 1/2" Ø THRU BOLTS.
9. VERIFY LOCATIONS AND AMOUNTS OF ALL HEADERS.
10. PRE-FABRICATED TRUSS OVER-BUILD FRAMING. ROOF SHEATHING SHALL BE CONTINUOUS BENEATH TRUSS OVERBUILD. PROVIDE ATTACHMENT OF OVERBUILD FRAMING TO ROOF SHEATHING AND TRUSSES BELOW ACCORDING TO TRUSS MANUFACTURER.
11. SEE ARCH. DWGS. FOR LOCATIONS OF FIRE/SMOKE WALLS AND DRAFT PARTITIONS. TRUSSES MUST BE COORDINATED WITH FIRE/SMOKE WALLS. WHERE ARCHITECTURAL PLANS REQUIRE SMOKE/FIRE WALLS TO EXTEND TO UNDER SIDE OF ROOF SHEATHING, THE TRUSSES MUST BE STOP AT THE FACE OF THE WALL.
12. BOTTOM CHORD RAISED TWO FEET FOR RECESSED CEILING - DASHED LINE SHOWS APPROXIMATE LOCATION. VERIFY ALL LOCATIONS WITH ARCH DWGS.
13. VERIFY ATTIC ACCESS LOCATIONS W/ ARCH. DWGS. SPACE TRUSSES AS REQUIRED FOR PROPER INSTALLATION. WHERE TRUSS SPACING EXCEEDS 24" O.C., LADDER BLOCK BETWEEN CHORDS WITH 2x BLOCKING @ 24" O.C.
14. SEE DETAIL 12/S5 FOR TOP PLATE SPLICE DETAIL.
15. SEE DETAILS 3/S-5 AND 4/S-5 FOR PERMANENT ROOF TRUSS BRACING.
16. DESIGN ROOF TRUSSES TO INCORPORATE FIXED WINDOW INSTALLATION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
17. PROVIDE (4) 2X6 AT EXTERIOR WALL AND (5) 2X4 @ INTERIOR WALL BELOW ALL GIRDER TRUSS BEARING POINTS PROVIDE LGT TIE DOWN WITH HIT4 AT STUD BASE..
18. SMOKE WALLS EXTEND THROUGH TRUSS OVERBUILD TO ROOF SHEATHING. BREAK TRUSS OVERBUILD ON BOTH SIDES OF WALL.
19. TRUSS CLIPS AT ENDS OF TRUSSES HAVE BEEN DESIGNED TO TRANSFER LATERAL SHEAR LOAD AND UPLIFT INTO THE WALLS. ANY SUBSTITUTIONS MUST BE APPROVED BY THE EOR. H10A TIE DOWNS AT EXTERIOR WALLS MUST BE APPLIED OVER THE EXTERIOR WALL OSB SHEATHING.
20. OMITTED
21. OMITTED
22. OMITTED
23. ALIGN DRAG TRUSS WITH SHEAR WALL PER DETAIL 6/S4. DESIGN DRAG TRUSS TO TRANSFER 200 PLF LATERAL LOAD FROM TOP CHORD TO BOTTOM CHORD. LATERAL LOAD IS RESISTED BY SHEAR WALL BELOW.
24. PROVIDE DOUBLE DROPPED STRUCTURAL GABLE END TRUSS AT END OF PORCH ROOF. HANG SOFFIT FRAMING FROM BOTTOM CHORD OF TRUSSES. TRUSS DESIGNER TO DESIGN GABLE END TO SUPPORT AN ADDITIONAL 150 PLF DEAD LOAD AT THE BOTTOM CHORD.
25. TRUSS MANUFACTURER TO COORDINATE FIXED WINDOW OPENINGS IN GABLE END TRUSSES - SEE ARCH ELEVATIONS.

HEADER AND BEAM SCHEDULE

TYPE	SIZE	NOTES
H1	(2) 2x8	W/ (1) 1/2" PLYWOOD SPACER. SEE 7/S5
H2	(2) 2x10	W/ (1) 1/2" PLYWOOD SPACER. SEE 7/S5
H3	(2) 2x12	W/ (1) 1/2" PLYWOOD SPACER. SEE 7/S5
H4	(3) 2x8	W/ (2) 1/2" PLYWOOD SPACERS. SEE 7/S5
H5	(3) 2x10	W/ (2) 1/2" PLYWOOD SPACERS. SEE 7/S5
H6	(3) 2x12	W/ (2) 1/2" PLYWOOD SPACERS. SEE 7/S5
H7	(2) 1 3/4" x 11 7/8" LVL DROPPED BEAM	Fb=2850 PSI, E=2.0, STRAP EACH FACE OF HEADER TO FACE OF JACK STUD W/ CS16 24" LONG, PROVIDE HIT4 HOLDDOWN AT STUD BASE.
H8	(3) 1 3/4" x 11 7/8" LVL DROPPED BEAM	Fb=2850 PSI, E=2.0
H9	(2) 1 3/4" x 14" LVL FLUSH BEAM. BOTTOM OF BEAM FLUSH WITH BOTTOM OF ROOF TRUSSES	Fb=2850 PSI, E=2.0, STRAP ENDS OF BEAM TO STUD GROUP BELOW W/ (2) H6 TIES. PROVIDE HIT4 HOLDDOWN AT STUD BASE.
H10	(2) 1 3/4" x 9 1/4" LVL DROPPED BEAM	Fb=2850 PSI, E=2.0
H11	(3) 1 3/4" x 9 1/4" LVL DROPPED BEAM	Fb=2850 PSI, E=2.0



KEY PLAN

N
PLAN NORTH

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
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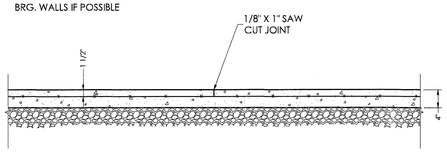
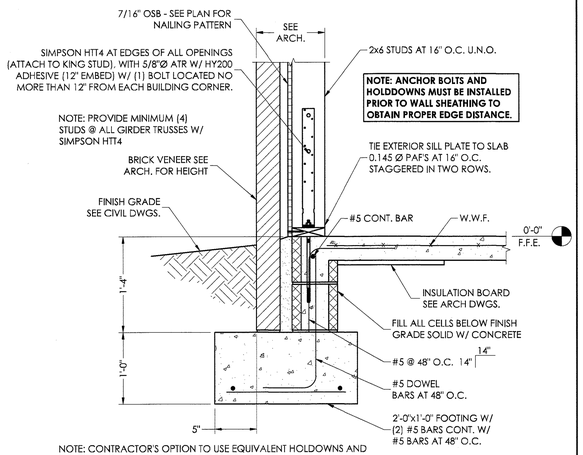


1 S-3 SLAB ON GRADE JOINTS

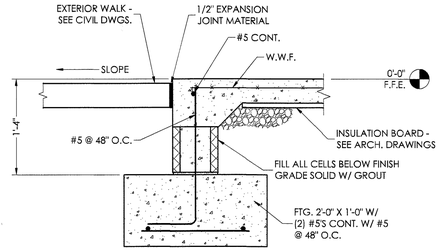
SCALE: NONE



NOTE: CONTRACTOR'S OPTION TO USE EQUIVALENT HOLDOWNS AND EPOXIES. SUBMIT SPECIFICATIONS FOR REVIEW

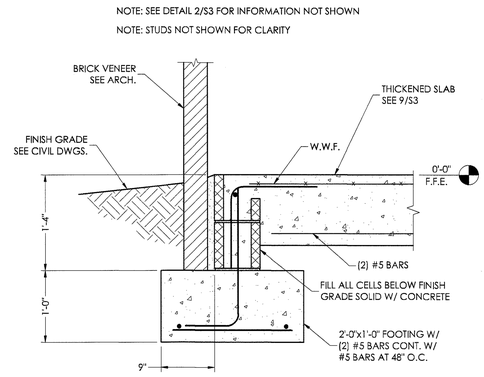
2 S-3 EXTERIOR WALL SECTION

SCALE: NONE



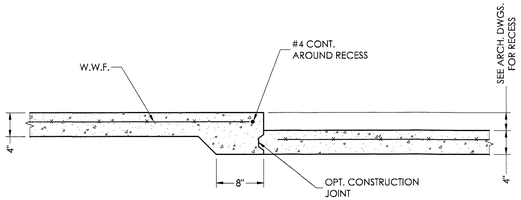
3 S-3 EXTERIOR DOOR SECTION

SCALE: NONE



4 S-3 SECTION @ THICKENED SLAB

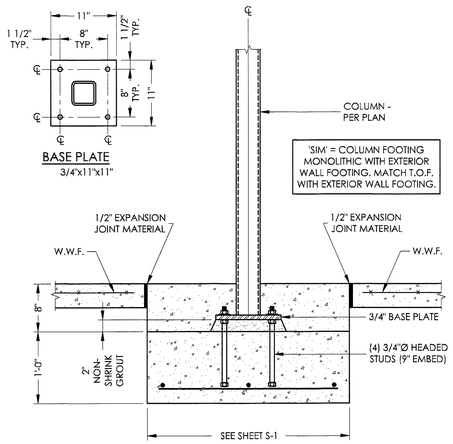
SCALE: NONE



NOTE:
1. SEE ARCH. DWGS. AND FINISH SCHEDULE FOR DIMENSIONS AND LOCATIONS OF REQUIRED RECESSES
2. THICKENED SLABS @ RECESSED SLAB SHOULD BE STEPPED DOWN AS NECESSARY TO ACCOUNT FOR RECESS.

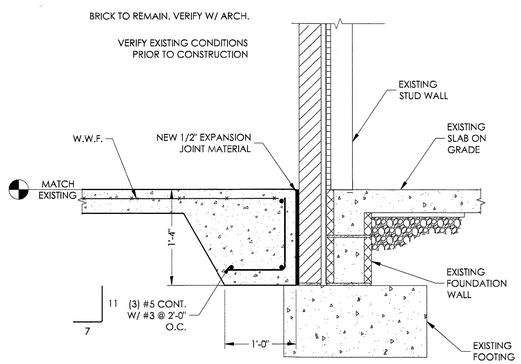
5 S-3 TYP. RECESSED SLAB

SCALE: NONE



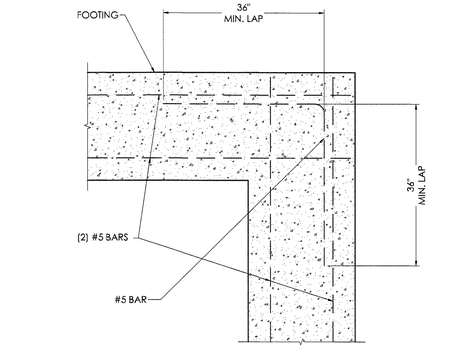
6 S-3 SECTION @ INTERIOR COLUMN

SCALE: NONE



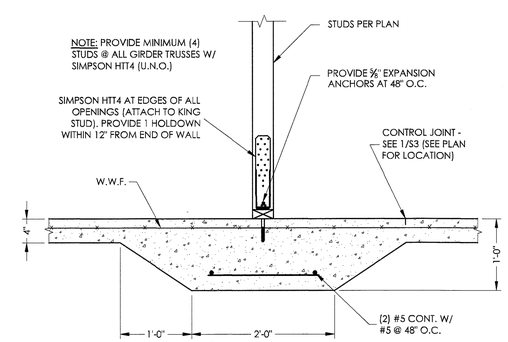
7 S-3 NEW TO EXISTING FOUNDATION

SCALE: NONE



8 S-3 TYP. CONTINUITY CORNER

SCALE: NONE

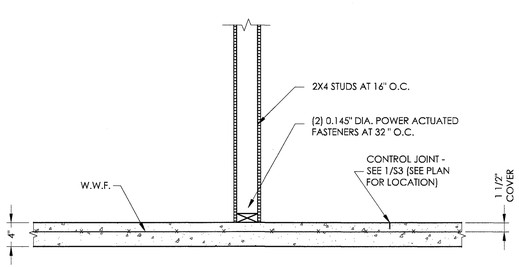


9 S-3 THICKENED SLAB

SCALE: NONE

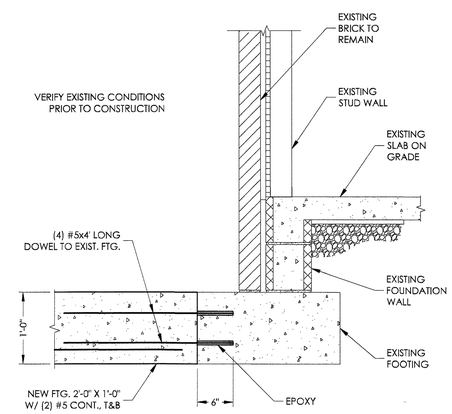
10 S-3

SCALE: NONE



11 S-3 SECTION @ NON-LOAD BEARING STUDS

SCALE: NONE



12 S-3 NEW TO EXISTING FOUNDATION

SCALE: NONE

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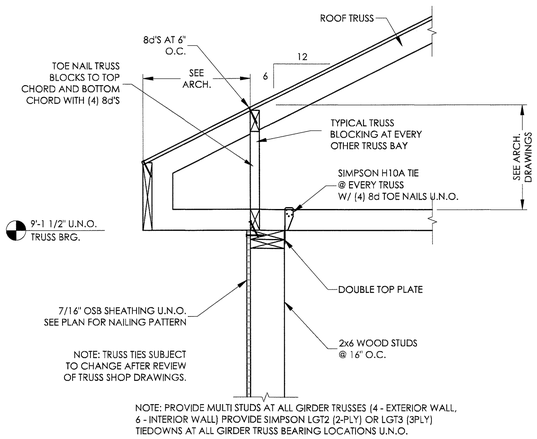
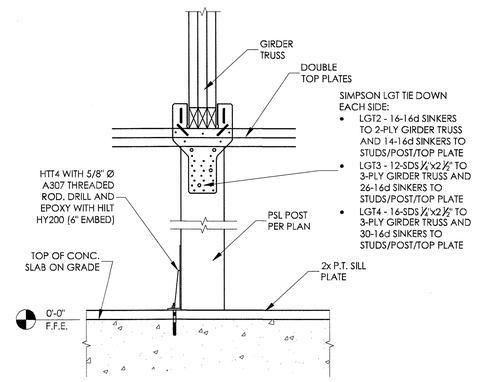
1 S-4 SCALE: NONE

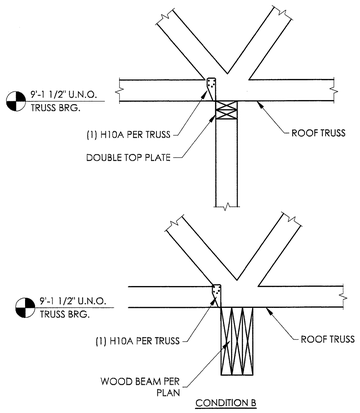
2 S-4 SCALE: NONE



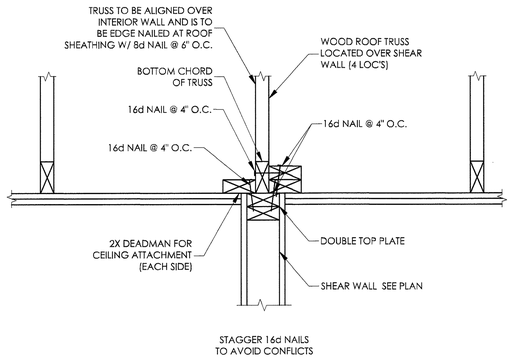
3 S-4 PREFAB. TRUSS @ EXT. WALL
SCALE: NONE



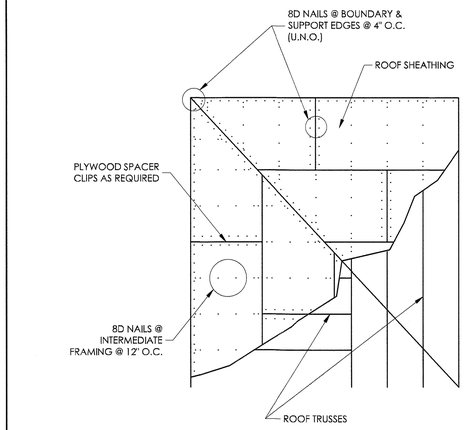
4 S-4 GIRDER TIE DOWN
SCALE: NONE



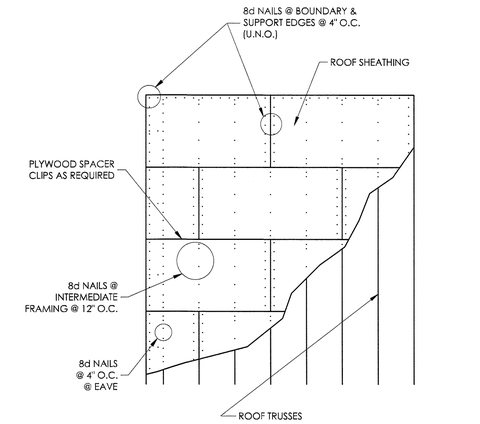
5 S-4 TRUSS AT INTERIOR BEARING
SCALE: NONE



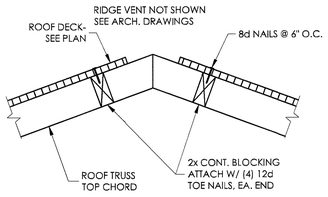
6 S-4 SHEARWALL AT DRAG TRUSS
SCALE: NONE



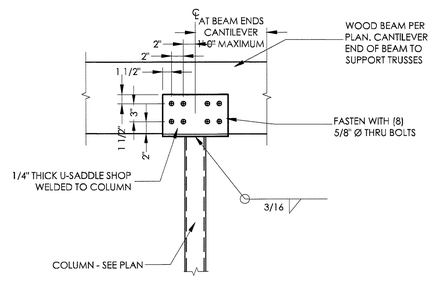
7 S-4 ROOF DECK NAILING PATTERN
SCALE: NONE



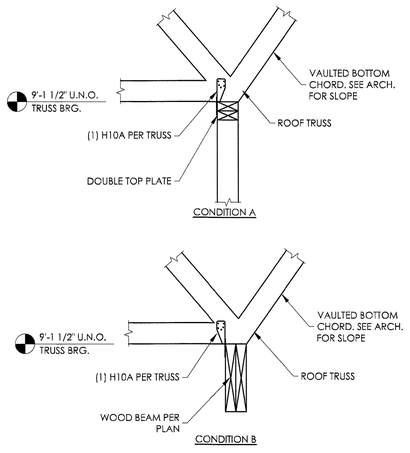
8 S-4 ROOF DECK NAILING PATTERN
SCALE: NONE GABLE END



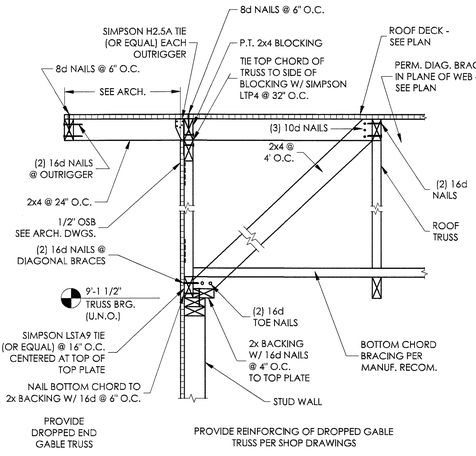
9 S-4 SECTION AT RIDGE AND CATWALK
SCALE: NONE



10 S-4 WOOD BEAM ON STEEL COLUMN
SCALE: NONE



11 S-4 TRUSS @ INTERIOR BEAM BEARING
SCALE: NONE



12 S-4 RAKE SECTION @ EXT. WALL
SCALE: NONE

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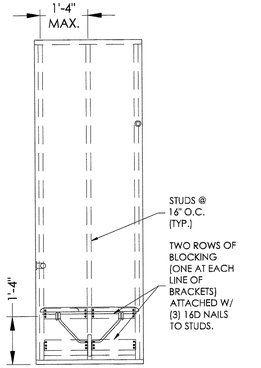
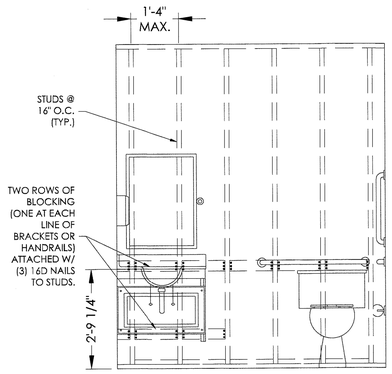


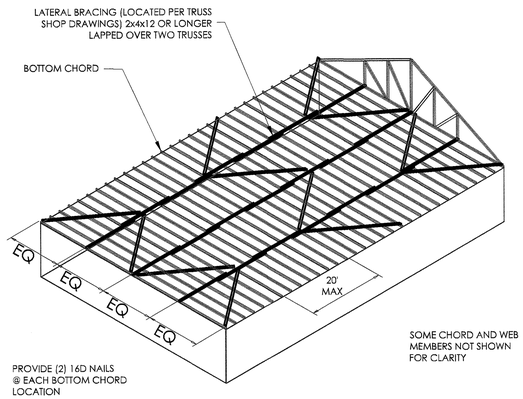
1 S-5 ELEVATION - SHOWER SEAT

SCALE: NONE



2 S-5 ELEVATION - TOILET AND SINK

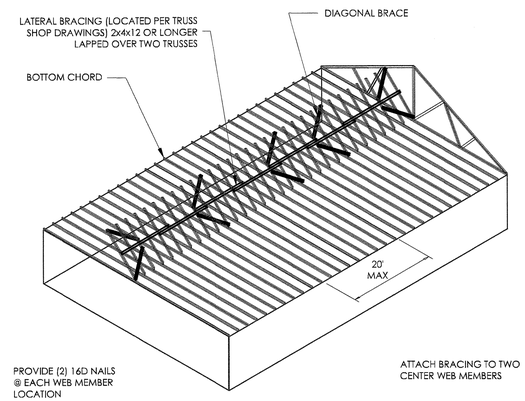
SCALE: NONE



PERMANENT BRACING OF THE BOTTOM TRUSS CHORD

3 S-5 PERM. TRUSS BRACING DETAIL

SCALE: NONE

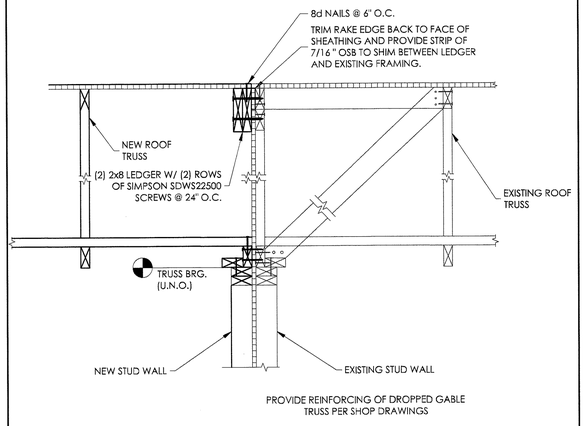


PERMANENT BRACING OF CENTER WEB MEMBERS

4 S-5 PERM. TRUSS BRACING DETAIL

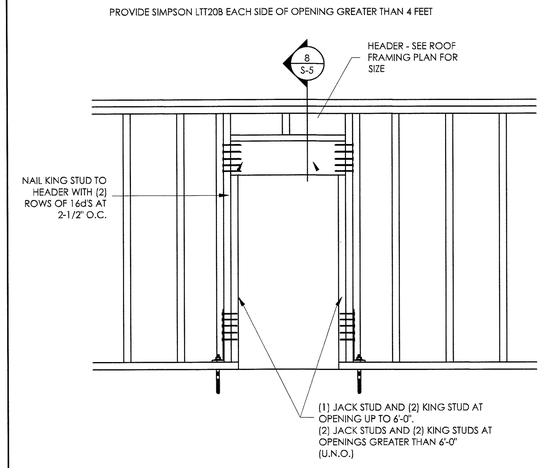
SCALE: NONE

5 S-5 SCALE: NONE



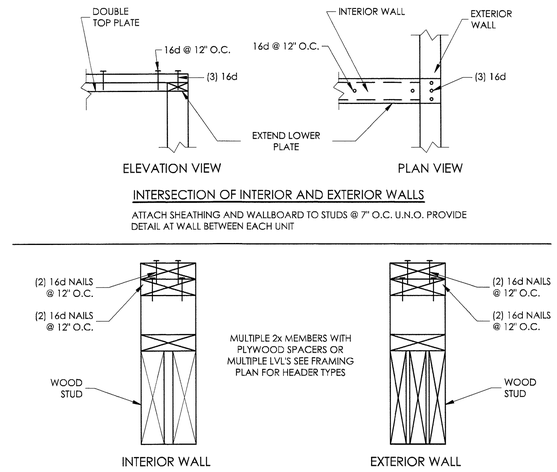
6 S-5 SECTION AT EXISTING ROOF

SCALE: NONE



7 S-5 HEADER ELEVATION

SCALE: NONE



INTERSECTION OF INTERIOR AND EXTERIOR WALLS

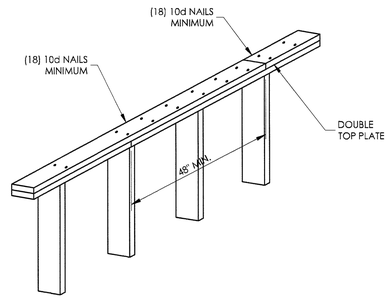
ATTACH SHEATHING AND WALLBOARD TO STUDS @ 7" O.C. U.N.O. PROVIDE DETAIL AT WALL BETWEEN EACH UNIT

8 S-5 HEADER & TOP PLATE DETAIL

SCALE: NONE

9 S-5 SCALE: NONE

10 S-5 SCALE: NONE



12 S-5 TOP PLATE SPLICE DETAIL

SCALE: NONE

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Architecture Planning Design

BUILDING RENOVATIONS (33 BED ALZ. UNITS)

ISSUE DATE: 05.12.2026

REV	DATE

S5

STRUCTURAL DESIGN DATA SHEET (ASCE 7-10):

RISK CATEGORY III (ASCE 7-10)

OCCUPANCY CLASSIFICATION INSTITUTIONAL GROUP I-2 (2015 IBC)

IMPORTANCE FACTORS:
- I seismic 1.25
- I snow 1.10

LIVE LOADS:
- ROOF 20 psf
- CATWALK 40 psf
- FLOOR 100 psf

SNOW LOAD:
- Pg 15 psf

WIND LOAD:
- Basic Wind Speed 120 MPH
- Exposure Category C
- Wind Base Shear (MWFRS)
  - Vx 11.5 K
  - Vy 12.3 K

SEISMIC LOAD:
- Spectral Response
- Ss 0.145
- S1 0.073
- Sds 0.155
- Sd1 0.116
- Seismic Design Category B
- Seismic Site Class D (Default)
- Structural System Light framed walls sheathed w/ structural panels
- R-Factor 6.5
- Analysis Procedure Equivalent Lateral Force
- Seismic Base Shear
  - Vx 1.1 K
  - Vy 1.1 K

SEISMIC ANCHORAGE OF NON-STRUCTURAL COMPONENTS:
Per ASCE 7 Chapter 13, non-structural components are not required to be braced against seismic sway.

LATERAL DESIGN CONTROL:
- X-Direction Wind
- Y-Direction Wind

SOIL BEARING PROPERTIES:
Allowable Bearing Capacity 2000 psf (Presumptive)

STATEMENT OF SPECIAL INSPECTIONS:

Project Name: Addition for Liberty Healthcare Roxboro

Building Permit Number: _____

Project Address: Roxboro, North Carolina

The following information is being submitted in accordance with the Special Inspection provisions of the International Building Code. Attached is the Schedule of Special Inspections (SSI) required for this project.

The Special Inspection program outlined herein does not relieve the Contractor or any other entity of contractual duties, including quality control, quality assurance or safety. The contractor is soley responsible for construction means, methods and job site safety.

Respectfully submitted,
The Structural Engineer of Record

Signature: Theodore A. Deters Date: 5/14/26

SCHEDULE OF SPECIAL INSPECTIONS:

Project Name: Addition for Liberty Healthcare Roxboro

Construction divisions which require inspections for this project are as follows:

INSPECTION TASK	CONTINUOUS (C) OR PERIODIC (P) INSPECTIONS		SPECIAL INSPECTIONS FIRM	NOTES & SCOPE
	C	P		
1. VERIFICATION OF SOILS (Table 1704.7)				
Verify materials below shallow Foundations are adequate to achieve the design bearing capacity.		P	Testing Agency (TA)	Testing Agency shall provide soils report
Verify excavations are extended to proper depth.		P	Testing Agency (TA)	
Perform Classification and testing of compacted fill materials.		P	Testing Agency (TA)	
Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.	C		Testing Agency (TA)	
Prior to placement of compacted fill, observe sub-grade and verify that site has been prepared property.		P	Testing Agency (TA)	
2. REINFORCED CONCRETE (Table 1704.4)				
Inspection of reinforcing steel, including prestressing tendons, and placement. ACI 318:3.5, 7.1-7.7		P	Testing Agency (TA)	ACI 318: 3.5,7.1-7.7 IBC: 1913.4
Verifying use of required design mix: ACI 318: Ch. 4, 5.2-5.4		P	Testing Agency (TA)	ACI 318: Ch. 4, 5.2-5.4 IBC: 1904.2.2, 1913.2, 1913.3
At the time fresh concrete is sampled to fabricate specimens for strength tests, slump, air content, and temperature of concrete.	C		Testing Agency (TA)	ASTM C 172, C 31 ACI: 318: 5.6, 5.8 IBC: 1913.10
2. REINFORCED CONCRETE (Table 1704.4)				
InspecT OSB nailing patterns per structural plans. Inspect roof truss and top plate ties, holddowns, and anchorage per structural plans		P	Special Inspector (SI)	

SCHEDULE OF SPECIAL INSPECTIONS (Continued):

Project Name: Addition for Liberty Healthcare Roxboro

Construction divisions which require inspections for this project are as follows:

INSPECTION TASK	CONTINUOUS (C) OR PERIODIC (P) INSPECTIONS		SPECIAL INSPECTIONS FIRM	NOTES & SCOPE
	C	P		
3. STRUCTURAL STEEL (Table 1704.3)				
Material verification of high strength bolts, nuts and washers.		P	Special Inspector (SI)	AISC 360, A3.3
Inspection of high strength bolting, snug tight joints		P	Special Inspector (SI)	AISC 360, M2.5 IBC 1704.3.3
Material verification of structural steel.		P	Special Inspector (SI)	Fabricator's bill of materials verification is acceptable.
All field welding.		P	Special Inspector (SI)	AWS D1.1 IBC 1704.3.1
4. MASONRY				
As masonry construction begins, the following shall be verified to ensure compliance: (A) Proportions of site mixed mortar, (B) Construction of mortar joints, (C) Location of reinforcement and connectors.		P	Testing Agency (TA)	ACI 318: 3.5,7.1-7.7 IBC: 1913.4
The inspection program shall verify: (A) Size and location of structural elements, (B) Size, grade, type of reinforcement, (C) Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)		P	Testing Agency (TA)	Sec. 2108.9.2.11, Item 2, Sec. 2104.3, 2104.4, ACI Sec. 1.15.4, 2.1.2, Sec. 1.12, Sec 2.1.8.6, 2.1.8.6.2, ACI 3.3G, Art 2.4.3.4, Art 1.8
Prior to grouting, the following shall be verified to ensure compliance: (A) Grout space is clean, (B) Placement of reinforcement and connectors, (C) Proportions of site-prepared grout, (D) Construction of mortar joints		P	Testing Agency (TA)	Sec. 1.12, Art. 3.2D, Art 3.4, Art. 2.6B, Art. 3.3B
Grout Placement shall be verified to ensure compliance with code and construction provisions.		P	Testing Agency (TA)	Art. 3.5

REINFORCED CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318, 14)
2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60)
3. THE COMPRESSIVE STRENGTH AT 28 DAYS OF CAST-IN-PLACE CONCRETE SHALL BE 3000 P.S.I., U.N.O. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES.
4. LAP SPLICES FOR #5 REINFORCING BARS SHALL BE 24" MIN., U.N.O.
5. **CLEAR CONCRETE COVER FOR REINFORCING STEEL:**
   - MASONRY WALLS: LOCATE IN CENTER OF WALL (U.N.O.)
   - FOOTINGS: 2" FORMED EDGES; 3" CAST AGAINST GROUND
   - SLAB ON GRADE: MID-HEIGHT OF SLAB
6. THE LONGITUDINAL REINFORCING STEEL IN WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
7. ALL CONCRETE SHALL BE VIBRATED BY MECHANICAL VIBRATORS.

STRUCTURAL STEEL:

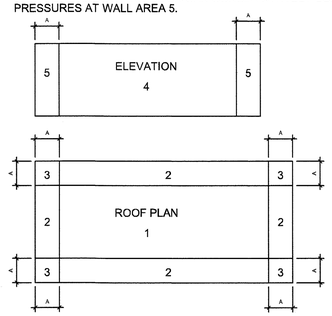
1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE A.I.S.C. "STEEL CONSTRUCTION MANUAL" 360-10.
2. STRUCTURAL STEEL SHALL BE ASTM A-992.
3. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B.
4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4" DIAMETER MINIMUM AND SHALL BE ASTM A-325-N U.N.O., SNUG TIGHT ALL CONNECTIONS.
5. ANCHOR BOLTS SHALL BE ASTM F1554 HEADED BOLTS. MINIMUM ANCHOR BOLT EMBEDMENT LENGTH SHALL BE 12 BOLT DIAMETERS U.N.O. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION.
6. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQ'D BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO A.W.S. SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.
7. PAINT ALL STRUCTURAL STEEL WITH ONE COAT OF RED OXIDE RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATABILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE TO THE PRIMED SURFACE.
8. THE SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. SUBMIT FOUR PRINTS OF EACH DRAWING. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. CONTRACTOR TO REVIEW AND STAMP DRAWINGS PRIOR TO SUBMISSION TO THE EOR.

WOOD TRUSSES:

1. ROOF TRUSSES SHALL BE DESIGNED TO SUPPORT THE DESIGN LOADS INDICATED IN THE DESIGN INFORMATION SECTION.
2. IN ADDITION TO THE UNIFORM LOADING SPECIFIED FOR TRUSS DESIGN, THE TRUSS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR M, P&E EQUIPMENT OR MATERIALS AND BY SPRINKLER LOADS IN THE TRUSS DESIGN.
3. TRUSSES SHALL BE DESIGNED BY A REGISTERED ENGINEER IN THE STATE OF NORTH CAROLINA AND SHOP DRAWINGS BEARING THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL.
4. TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TRUSS PLATE INSTITUTE TPI I-2002.
5. LIMIT LL DEFLECTION TO L/360. LIMIT TL DEFLECTION TO L/240 OR 1.25" MAX.

WIND LOAD SCHEDULE					
COMPONENTS & CLADDING	ROOF WIND LOAD			WALL WIND LOADS	
	ROOF AREA			WALL AREA	
	1	2	3	4	5
PRESSURE (PSF)	+12.9	+12.9	+12.9	+31.2	+31.2
SUCTION (PSF)	-26.4	-64.0	-72.1	-33.9	-41.4

1. CORNER DISTANCE, A=5 FEET, ROOF = 100 SF, WALL = 13 S.F. C&C
2. VALUES ARE NOT FACTORED. ASD LOAD FACTOR IS 0.6 FOR WIND.
3. DP FOR WINDOW AND DOOR CAN CONSERVATIVELY USE NEGATIVE PRESSURES AT WALL AREA 5.



DESIGN INFORMATION:

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA BUILDING CODE, 2015 INTERNATIONAL BUILDING CODE AND ASCE 7-10.
2. DESIGN LOADS:
   - DEAD AND LIVE LOADS
   - ROOF LOADS
     - TOP CHORD DEAD 15 psf
     - BOTTOM CHORD DEAD 5 psf
     - TOP CHORD LIVE 20 psf
     - BOTTOM CHORD LIVE 10 psf (WITHOUT ATTIC STORAGE)
     - CATWALK 40 psf
   - FLOOR LOADS
     - TOP CHORD DEAD N/A
     - BOTTOM CHORD DEAD N/A
     - TOP CHORD LIVE N/A
     - BOTTOM CHORD LIVE N/A
   - RISK CATEGORY III
   - IMPORTANCE FACTORS
     - I seismic 1.25
     - I snow 1.10
   - GROUND SNOW LOAD (pg) 15 psf
   - DESIGN WIND SPEED 120 mph
   - SEISMIC DESIGN PARAMETERS
     - S1 7.3 %g
     - Ss 14.5 %g
     - SITE CLASS D (DEFAULT)
     - Sds 0.145
     - Sd1 0.116
     - SEISMIC DESIGN CATEGORY B
     - R 6.5
     - CV 0.0298
3. ADDITIONAL LIVE LOADS PRESCRIBED IN ASCE7-10 RELATED TO ROOF ATTICS AND ROOF TRUSSES, INCLUDING LIMITED ACCESS STORAGE IN ATTICS SHALL APPLY TO PRE-FABRICATED TRUSSES, AND SHALL BE CLEARLY IDENTIFIED ON THE TRUSS SHOP DRAWINGS..
4. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. FOR LOCATION OF MISCELLANEOUS ITEMS (SUCH AS INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
6. THIS PROJECT CONTAINS A SERIES OF DETAILS CONSIDERED "TYPICAL DETAILS". THESE SHALL APPLY AT ALL SITUATIONS THAT ARE THE SAME OR SIMILAR AS THESE DETAILS. THESE "TYPICAL DETAILS" SHALL APPLY WHETHER OR NOT THEY ARE INDICATED OR CUT AT EACH LOCATION.
7. VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE WORKED WITH ARCHITECTURAL DRAWINGS.
8. USE OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS ACCORDINGLY PRIOR TO SUBMITTING TO THE ENGINEER. THE OMISSION OF ITEMS FROM SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY OF FURNISHING AND INSTALLING ITEMS REGARDLESS OF WHETHER SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

WOOD FRAMING (NOT INCLUDING PRE-FABRICATED TRUSSES):

1. ALL WOOD CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA BUILDING CODE, 2015 INTERNATIONAL BUILDING CODE AND TO THE NDS.
2. ALL NAILING (UNLESS NOTED OTHERWISE) SHALL CONFORM TO THE NORTH CAROLINA BUILDING CODE.
3. ALL STUDS, TOP PLATES AND SILL PLATES IN BEARING WALLS AND SHEARWALLS SHALL BE SPF NO. 2 OR BETTER.
4. ALL STUDS, TOP PLATES AND SILL PLATES IN NON-BEARING WALLS SHALL BE SPF NO. 3 OR BETTER.
5. ALL 2x NOMINAL HEADERS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
6. ALL EXPOSED LUMBER SHALL BE PRESERVATIVE TREATED.
7. FINGER JOINTED STUDS MAY BE USED IN INTERIOR APPLICATIONS PROVIDED THE STRUCTURAL PROPERTIES EQUAL OR EXCEED THAT OF THE SOLID SAWN LUMBER. FINGER JOINTED LUMBER SHALL NOT BE USED IN EXPOSED CONDITIONS.
8. ALL CONNECTIONS IN EXPOSED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
9. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED.
10. ALL MANUFACTURED LAMINATED VENEER LUMBER (LVL) SHALL HAVE A MODULUS OF ELASTICITY OF 2E6 psi AND A MINIMUM BENDING STRENGTH OF 2800 psi.
11. UNDER NO CIRCUMSTANCE SHALL LAMINATED VENEER LUMBER BE USED IN AN EXPOSED CONDITION. WHERE MANUFACTURER LUMBER IS REQUIRED IN AN EXPOSED CONDITION THE CONTRACTOR MUST USED PRESERVATIVE TREATED GLU-LAMINATED LUMBER (GLB).
12. ALL GLU-LAMINATED LUMBER SHALL BE GRADED ACCORDING TO THE PLANS. IF NO GRADE IS SPECIFIED A MINIMUM GADE OF 4VF2400 SHALL BE USED.

FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED UPON AN ALLOWABLE SOIL BEARING PRESSURE OF 3,000 PSF, PROVIDED IN THE GEOTECHNICAL REPORT, INCLUDED IN THE SPECIFICATION MANUAL, BY GEOTECHNOLOGIES (PROJECT #124-1002-EA, DATED DECEMBER 4, 2024.
2. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEO-TECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A 2'-0" MINIMUM BELOW ADJACENT GRADE. (U.N.O.)
4. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3" THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED OR CLEAN GRAVEL SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
5. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY FOR PREPARING THE BUILDING PAD PER THE GEOTECHNICAL ENGINEER OF RECORD'S RECOMMENDATIONS.
7. SITE IS ASSUMED TO BE MASS GRADED. GRADING PLANS WERE NOT PROVIDED AT TIME OF DESIGN AND MUST BE PROVIDED FOR COORDINATION PRIOR TO CONSTRUCTION.

CONCRETE MASONRY:

1. CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF125 P.C.F. AND SHALL HAVE A MINIMUM PRISM STRENGTH (F'm) OF 1500 P.S.I.
2. GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR "GROUT FOR MASONARY", ASTM C-476-02, AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (F'm) OF 3000 P.S.I. AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9" AND 11". WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3" OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL) GROUT.
3. MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270-04. 4. GROUT PROCEDURES AND REBAR INSTALLATION SHALL PER ASTM ACI 530 1-99. PROVIDE 36" LAP SPLICES IN REBAR IN 12" CMU FIRE WALL.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 048492 5/14/26 ENGINEER THEODORE A. DETERS
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Architecture Planning Design

BUILDING RENOVATIONS (33 BED ALZ. UNITS)

ISSUE DATE: 05.12.2026

REV	DATE

SN1

BUILDING DATA:

EXISTING OCCUPANCY - I-2, NURSING HOME

EXISTING CONSTRUCTION - IBC VA
FULLY SPRINKLERED, NFPA 13

SMOKE COMPARTMENT "A"
4,064 S.F.

SMOKE COMPARTMENT "B"
2,670 S.F.

SMOKE COMPARTMENT "C"
7,789 S.F.

SMOKE COMPARTMENT "D"
5,021 S.F.

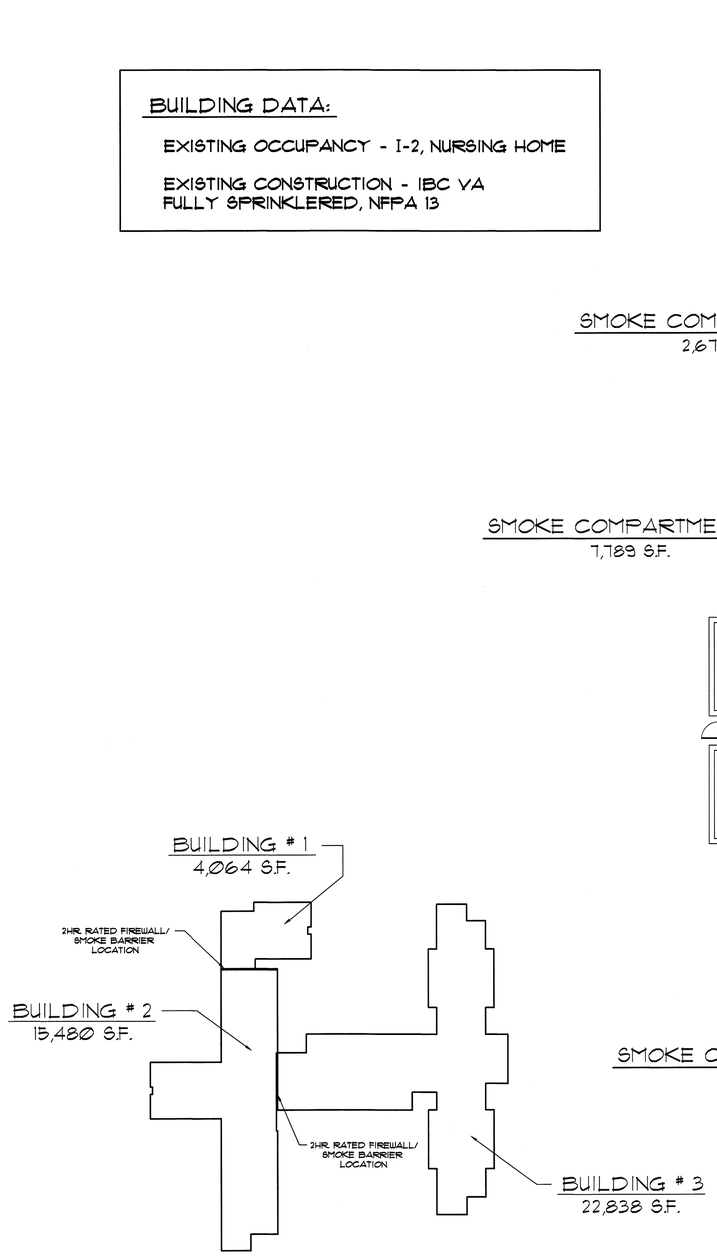
SMOKE COMPARTMENT "E"
11,634 S.F.

SMOKE COMPARTMENT "F"
5,589 S.F.

SMOKE COMPARTMENT "G"
5,615 S.F.

2-HOUR RATED FIREWALL/ SMOKE BARRIER LOCATION

1-HOUR RATED FIRE / SMOKE BARRIER LOCATION



SQUARE FOOTAGE BREAKDOWN KEY

EXISTING BUILDING AREAS:

BUILDING # 1 = 4,064 S.F. IS LESS THAN 38,000 S.F. ALLOWED
BUILDING # 2 = 15,480 S.F. IS LESS THAN 38,000 S.F. ALLOWED
BUILDING # 3 = 22,838 S.F. IS LESS THAN 38,000 S.F. ALLOWED

TOTAL EXISTING BUILDING S.F. = 42,382 S.F.

WALL RATING LEGEND

- 1-HOUR FIRE / SMOKE BARRIER (1-HR. F/S W.)
- 2-HOUR RATED FIREWALL / (2-HR. F.W.) SMOKE BARRIER

(101) FLOOR PLAN — EXISTING BUILDING COMPOSITE PLAN
SCALE: 1/16" = 1'-0"

DAVID R. POLSTON REGISTERED ARCHITECT 3275 NORTH CAROLINA WILMINGTON, N.C.
6-18-2021

LIBERTY HEALTHCARE
ROXBORO
Roxboro, North Carolina

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3806 Park Ave. Suite C, Wilmington, NC 28403
Architecture Planning Design

BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

A
1

NEW CONSTRUCTION

SEE SHEET A-3 FOR COMPLETE DETAILS AT TEMPORARY EXIT DURING CONSTRUCTION AND TIE-IN BETWEEN EXISTING BUILDING AND NEW ALZHEIMER SUPPORT ADDITION.

SEE SHEET A-4 FOR COMPLETE FLOOR PLAN OF NEW ALZHEIMER SUPPORT ADDITION.

33 BED ALZHEIMER UNIT

5 PRIVATES
14 SEMI-PVTS.

NEW CONTROL DOORS AT 33 BED ALZHEIMER UNIT

SEE DOOR # 10 ON DOOR AND FRAME SCHEDULE ON SHEET A-4.

2-HOUR RATED FIREWALL/ SMOKE BARRIER LOCATION

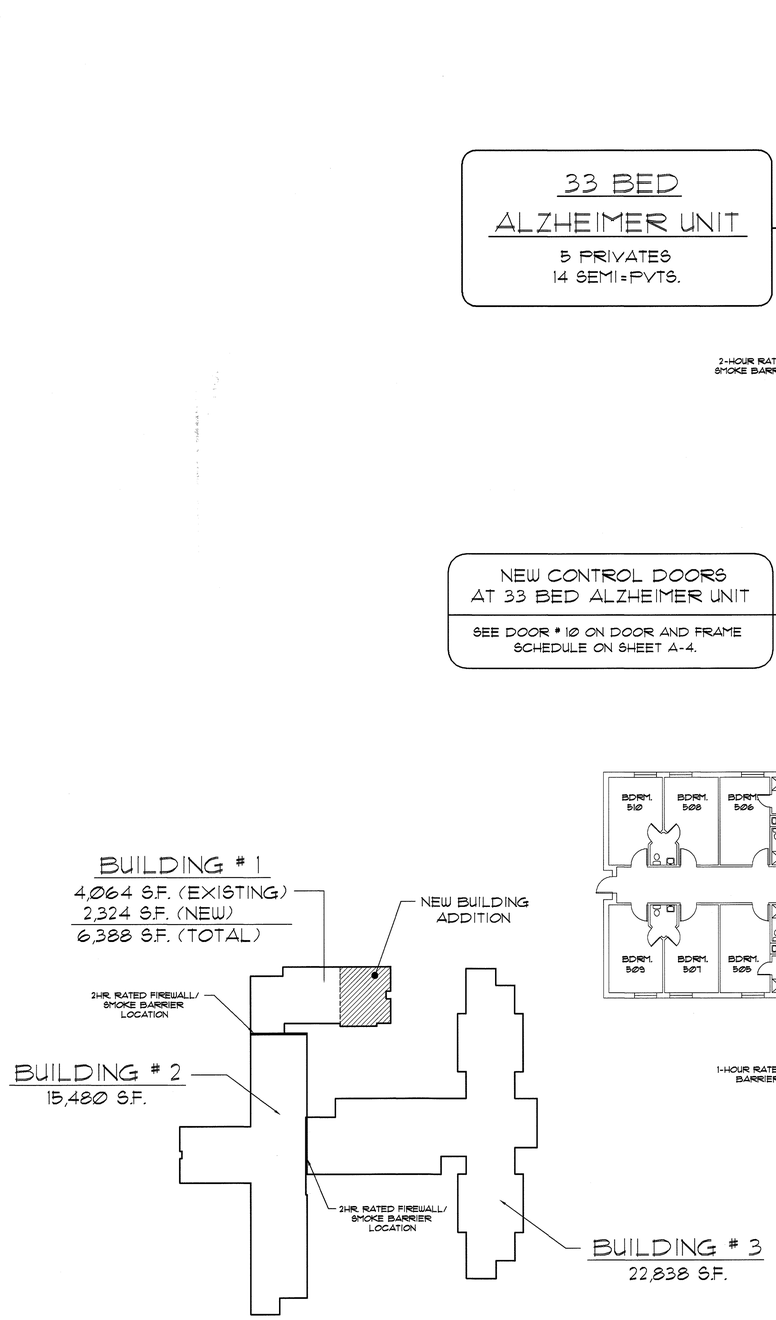
1-HOUR RATED FIRE / SMOKE BARRIER LOCATION

2-HOUR RATED FIREWALL/ SMOKE BARRIER LOCATION

1-HOUR RATED FIRE / SMOKE BARRIER LOCATION

2-HOUR RATED FIREWALL/ SMOKE BARRIER LOCATION

1-HOUR RATED FIRE / SMOKE BARRIER LOCATION



SQUARE FOOTAGE BREAKDOWN KEY

BUILDING AREAS AFTER ADDITION / RENOVATIONS:

BUILDING # 1 = 6,388 S.F. IS LESS THAN 38,000 S.F. ALLOWED
BUILDING # 2 = 15,480 S.F. IS LESS THAN 38,000 S.F. ALLOWED
BUILDING # 3 = 22,838 S.F. IS LESS THAN 38,000 S.F. ALLOWED

TOTAL RENOVATED BUILDING S.F. = 44,706 S.F.

WALL RATING LEGEND

- 1-HOUR FIRE / SMOKE BARRIER (1-HR. F/S W.)
- 1-HOUR FIRE BARRIER WALL (1-HR. FB W.) REQUIRED BY TABLE 509 NCSBC
- 2-HOUR RATED FIREWALL / (2-HR. F.W.) SMOKE BARRIER

(201) **FLOOR PLAN** COMPOSITE FLOOR PLAN W/ ALZHEIMER ADDITION
SCALE: 1/16" = 1'-0"

DAVID R. POLSTON REGISTERED ARCHITECT 3275 NORTH CAROLINA WILMINGTON, N.C.
6-18-2026

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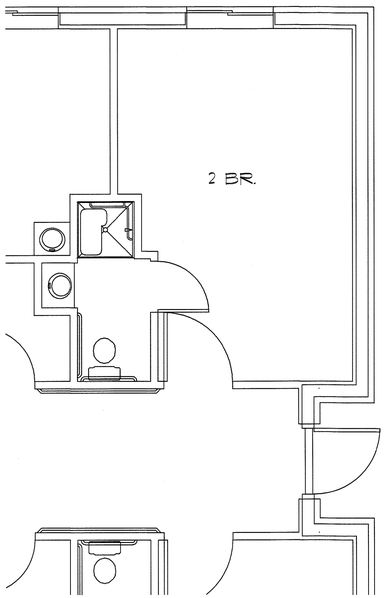
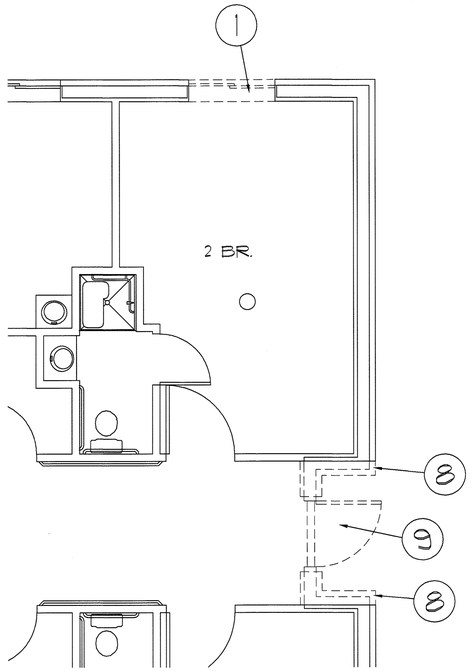
BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

A 2



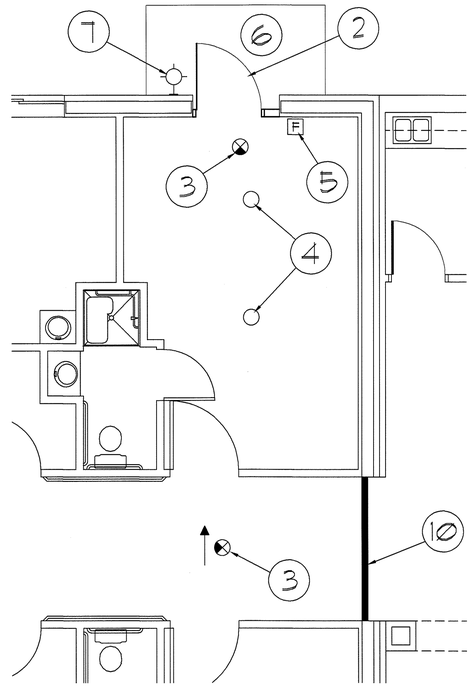
301 **FLOOR PLAN** — EXISTING PLAN AT AREA OF TEMPORARY EXIT
SCALE: 1/4" = 1'-0"



302 **FLOOR PLAN** — DEMOLITION PLAN AT AREA OF TEMPORARY EXIT
SCALE: 1/4" = 1'-0"

TEMPORARY EXIT NOTES:

1. REMOVE EXTERIOR WINDOW UNIT.
2. INSTALL TEMPORARY 3'-8" WIDE DOOR WITH STUD INFILL ON SIDES.
3. INSTALL TEMPORARY EXIT LIGHTS FOR EGRESS DIRECTION. TIE TO EXISTING LIFE SAFETY ELECTRICAL BRANCH.
4. SWITCH EXISTING CEILING LIGHTING FROM NORMAL ELECTRICAL CIRCUIT TO LIGHT SAFETY CIRCUIT.
5. INSTALL TEMPORARY FIRE ALARM PULL STATION AT TEMPORARY EGRESS DOOR.
6. PROVIDE HARD SURFACE EGRESS PATHWAY FROM TEMPORARY EXIT DOOR TO PUBLIC WAY.
7. PROVIDE EXTERIOR LIGHTING ON THE LIFE SAFETY BRANCH TO ILLUMINATE EXTERIOR EGRESS PATHWAY.
8. REMOVE BRICK VENEER AT EACH DOOR ALCOVE WALL.
9. REMOVE EXISTING EXISTING DOOR AND FRAME.
10. INSTALL CONSTRUCTION BARRIER ACROSS CORRIDOR WITH 2" X 4" WOOD STUDS AT 16" O.C. AND 5/8" FIRECODE G.W.B. ON EACH SIDE AFTER TEMPORARY EGRESS IS COMPLETED AND APPROVED BY THE LOCAL FIRE MARSHALL AND BUILDING INSPECTIONS.



303 **FLOOR PLAN** — PLAN AT AREA OF TEMPORARY EXIT
SCALE: 1/4" = 1'-0"

RESIDENT SAFETY REQUIREMENTS DURING CONSTRUCTION

STATEMENT OF PURPOSE:

THE LIBERTY HEALTH ROXBORO NURSING FACILITY HAS DEVELOPED THIS RESIDENT SAFETY RISK ASSESSMENT (RSRA) PREPAREDNESS PLAN IN ORDER TO PROVIDE GUIDELINES TO ENSURE THE SAFETY AND PROTECTION OF THE RESIDENTS, VISITORS, AND EMPLOYEES AS THE COMMUNITY IS IMPROVING WITH THE ADDITION OF A NEW ALZHEIMER UNIT.

SCOPE OF WORK:

A. PRE-CONSTRUCTION - ADMINISTRATOR, MAINTENANCE DIRECTOR, ARCHITECT, AND GENERAL CONTRACTOR TO PREPARE A JOINT PLAN FOR COORDINATION OF CONSTRUCTION SEQUENCES, RESIDENT SAFETY / PROTECTION DURING CONSTRUCTION ACTIVITIES AND MEDIATION OF POTENTIAL ENVIRONMENTAL HAZARDS (INCLUDING DUST, NOISE, AND CONSTRUCTION CHEMICALS).

B. CONSTRUCTION - GENERAL CONTRACTOR TO COMPLETE RENOVATIONS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY STAFF TO ENSURE THE SAFETY OF THE RESIDENTS AND STAFF.

C. POST-CONSTRUCTION - THE GENTERAL CONTRACTOR SHALL CLEAN ALL RENOVATED AREAS FOR THE REMOVAL OF ALL CONSTRUCTION MATERIALS / EQUIPMENT, DUST, AND RESTORE ALL HVAC EQUIPMENT TO THEIR NORMAL OPERATION.

PROJECT AUTHORITY:

THE FACILITY ADMINISTRATOR OR HIS/HER DESIGNEE WILL BE RESPONSIBLE FOR THE COORDINATION BETWEEN THE STAFF, RESIDENTS, CONSULTANTS, AND CONTRACTORS. A PRE-CONSTRUCTION MEETING WILL BE CONDUCTED BY THE ADMINISTRATOR, CONSULTANTS, CONTRACTORS, AND KEY STAFF. WEEKLY MEETINGS WILL BE HELD BETWEEN THE ADMINISTRATOR AND HIS OR HER DESIGNEE AND THE CONTRACTORS TO COORDINATE THE ACTIVITIES OF THE FACILITY AND SCOPE OF WORK WITH THAT OF THE CONTRUCTION THAT IS TAKING PLACE. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE STAFF IN ADVANCE CONCERNING THE ZONES OF THE CONSTRUCTION, SO THAT THE NECESSARY SAFETY AND INFECTION CONTROL PRECAUTIONS WILL BE PUT INTO PLACE TO INSURE THE SAFETY AND WELFARE OF THE RESIDENTS, STAFF, AND VISITORS. MINUTES OF THE RESPECTIVE MEETINGS WILL BE MAINTAINED AND AVAILABLE FOR REVIEW. INFORMATION ON PROGRESS AND DAILY ACTIVITIES WILL BE SHARED EACH DAY OF THE MORNING STANDUP MEETINGS WITH THE MANAGEMENT TEAM.

PREPARATION / CONSTRUCTION COMPLETION INFECTION CONTROL MEASURES:

1. THIS PROJECT IS A CLASS TWO LEVEL OF REQUIRED INFECTION CONTROL PRECAUTIONS INDICATES THE POTENTIAL CONTAMINATION WILL BE CONSTRUCTION DUST AND FUMES. TO MITIGATE THE SPREAD OF DUST AND FUMES, THE CONSTRUCTION AREA SHALL BE SEALED OFF FROM THE NON-WORK AREAS WITH VISQUEEN AND BE KEPT UNDER NEGATIVE PRESSURE.
2. MAINTENANCE DIRECTOR, GENERAL CONTRACTORS, AND SUB-CONTRACTORS MEETINGS WILL BE HELD AT THE FACILITY. THE NATURE OF THE PROJECT WILL BE REVIEWED, SAFETY PRACTICES AND RESIDENT RIGHTS WILL BE DISCUSSED. THE CONTRACTOR WILL BE DIRECTED TO PREPARE SPECIFIC SAFETY POLICIES AND PROCEDURES AS THEY RELATE TO THIS PROJECT.
3. THE CONTRACTOR IS REQUIRED TO PERFORM THE FOLLOWING INFECTION CONTROL MEASURES BEFORE START OF CONSTRUCTION:
   A. PROVIDE ACTIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPENSING INTO THE ATMOSPHERE.
   B. WATER MIST SURFACES TO CONTROL DUST WHILE CUTTING.
   C. SEAL UNUSED DOORS WITH DUCT OR MASKING TAPE.
   D. BLOCK OFF AND SEAL AIR VENTS.
   E. ISOLATE HVAC SYSTEM IN AREAS WHERE WORK IS OCCURRING.
   F. REMOVE RESIDENTS FROM THE IMMEDIATE WORK AREA.
   G. PROVIDE MASKS TO STAFF, RESIDENTS, AND OTHERS WHO MAY BE ENTERING INTO THE WORK AREA.
   H. ADD PROTECTION (COVER SMOKE DETECTORS) WHERE NECESSARY.
   I. VACUUM WITH HEPA FILTERED VACUUMS.
   J. REVIEW THE FACILITY'S FIRE WATCH POLICY, AND PROCEDURE WITH ALL STAFF CONTRACTORS, SUB-CONTRACTORS, RESIDENTS, AND FAMILY.

PREPARATION / CONSTRUCTION COMPLETION INFECTION CONTROL MEASURES (CONTINUED):

4. THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING INFECTION CONTROL MEASURES DURING CONSTRUCTION:
   A. MIST SURFACES TO CONTROL DUST WHILE CUTTING.
   B. SEAL UNUSED DOORS WITH DUCT TAPE.
   C. BLOCK OFF AND SEAL AIR VENTS.
   D. PROVIDE ACTIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPENSING INTO THE ATMOSPHERE.
   E. PLACE DUST MAT AT ENTRANCE AND EXIT OF WORK AREAS.
   F. REMOVE OR ISOLATE HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.
5. THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING INFECTION CONTROL MEASURES AFTER CONSTRUCTION:
   A. WIPE WORK SURFACES WITH DISINFECTANT.
   B. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
   C. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREAS.
   D. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR BASELINE AIR QUALITY SAMPLES PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
7. GENERAL CONTRACTOR SHALL MAINTAIN NEGATIVE AIRE PRESSURE IN THE DESIGNATED WORK ENTRY USING HEPA FILTRATION UNITS. ALL MATERIALS AND WORKERS WILL ENTER THROUGH THE NEGATIVE AIR ENCLOSURE. ADDITIONALLY, THE ICRA COMMITTEE WILL DETERMINE THE PATH OF LEAST INTERRUPTION TO THE FACILITY'S OPERATIONS FOR EACH PROJECT PHASE. THE CONTRACTOR WILL BE DIRECTED TO USE THIS ROUTE.
8. ALL NEGATIVE AIR FILTRATION UNITS SHALL BE CONNECTED TO THE CRITICAL BRANCH OF THE EMERGENCY ELECTRICAL SYSTEM.
9. CONTRACTOR SHALL TEST THE NEGATIVE PRESSURE RELATIONSHIPS PRIOR TO START OF CONSTRUCTION WORK AND END OF CONSTRUCTION ACTIVITIES EACH DAY.
10. THE FACILITY MAINTENANCE DIRECTOR WILL CHECK ALL AIR FILTERS AT THE END OF THE DAY'S CONSTRUCTION AND AS APPROVED BY THE FACILITY'S ICRA COMMITTEE.

ALLOWABLE CONSTRUCTION HOURS / WORKMEN:

1. CONSTRUCTION STAFF WILL BE ALLOWED TO WORK IN THE RESIDENT WINGS FROM 7:30 AM UNTIL 6:00 PM MONDAY - FRIDAY. RESIDENTS, AS NECESSARY, WILL BE ASKED TO VACATE THE AREA ADJACENT TO THE CONSTRUCTION WHILE WORK IS BEING PERFORMED IF THE CONSTRUCTION IS DETERMINED TO IMPACT A RESIDENT'S WELL-BEING (NOISE, VIBRATION, ETC.). RESIDENTS WILL BE ALLOWED BACK INTO THE CONSTRUCTION AREA AFTER WORK HAS ENDED FOR THE DAY.

   RESIDENTS WILL BE DIRECTED TO AREAS SUCH AS DAY ROOMS, DINING, ACTIVITIES ROOMS, ETC. DURING THE VARIOUS PHASES FOR CONSTRUCTION WHEN DEEMED NECESSARY. IN RARE CASES, PARTICULAR RESIDENTS MAY BE MOVED TO A REMOTE LOCATION IN THE FACILITY FOR THE DURATION OF THE CONSTRUCTION PHASE.
2. WORKMEN HAND / SINK TOILET. ALL CONSTRUCTION WORKERS MUST USE THE EXISTING HAND SINK AND TOILET LOCATED IN THE EXISTING PUBLIC RESTROOMS AT THE LOBBY AREA. NO WORKMEN ARE ALLOWED TO USE ANY OTHER HAND SINK OR TOILET IN THE FACILITY.

PROTECTION OF MEANS OF EGRESS:

1. THE GENERAL CONTRACTOR SHALL NOTIFY THE ADMINISTRATOR AND MAINTENANCE DIRECTOR PRIOR TO ANY CONSTRUCTION ACTIVITY THAT IS NECESSARY IN THE CORRIDORS (MEANS OF EGRESS). THE FACILITY STAFF AND GENERAL CONTRACTOR SHALL COORDINATE A PLAN TO VACATE THE OCCUPIED RESIDENT BEDROOMS IMPACTED BY ANY WORK THAT RESTRICTS THE SIZE OF THE EXIT CORRIDOR OR MEANS TO REACH AN EXIT DOOR. RESIDENTS SHALL NOT BE ALLOWED BACK INTO THE CONSTRUCTION AREA UNTIL AFTER WORK IS COMPLETED AND THERE ARE NO RESTRICTIONS IN EGRESS PATHWAYS.
2. RESIDENTS WILL BE DIRECTED TO AREAS SUCH AS DAY ROOMS, DINING, ACTIVITIES ROOMS, ETC. DURING THE VARIOUS PHASES FOR FOR CONSTRUCTION WHEN DEEMED NECESSARY. IN RARE CASES, PARTICULAR RESIDENTS MAY BE MOVED TO A REMOTE LOCATION IN THE FACILITY FOR THE DURATION OF THE CONSTRUCTION PHASE.
3. THE GENERAL CONTRACTOR AT NO TIME SHALL STORE MATERIALS OR EQUIPMENT IN THE RESIDENT CORRIDORS.
4. PRIOR TO THE END OF THE CONSTRUCTION WORK DAY, THE CONTRACTOR AND MAINTENANCE DIRECTOR SHALL JOINTLY SURVEY THE PROJECT AREA CORRIDORS AND ENSURE NO EQUIPMENT, MATERIALS ARE STORED IN THE CORRIDORS AND ENSURE THAT THERE ARE NO WALLS OR FLOOR IMPEDIMENTS THAT RESTRICT THE USE OF THE CORRIDORS FOR EXITING.

CONSTRUCTION BARRIERS:

1. ONE CONSTRUCTION BARRIER IS REQUIRED FOR THIS PROJECT. THE CONSTRUCTION BARRIER SHALL NOT PROTRUDE OR OBSTRUCT ANY REQUIRED EGRESS CORRIDOR. CONSTRUCTION BARRIERS TO BE CONSTRUCTED OF 2" X 4" WOOD STUDS WITH 5/8" FIRECODE GWB, ON EACH SIDE. CONSTRUCTION BARRIERS SHALL EXTEND FROM THE FLOOR SLAB TO THE CEILING ABOVE. INTERSECTION OF NEW CONSTRUCTION BARRIERS AND ADJACENT EXISTING SURFACES SHALL BE SEALED TIGHT TO PREVENT THE PASSAGE OF SMOKE. CONSTRUCTION BARRIERS SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION WORK IS APPROVED BY THE LOCAL AHJ AND DHSR CONSTRUCTION SECTION.
2. THE CONTRACTOR SHALL SEAL THE CONSTRUCTION BARRIER WITH VISQUEEN TO CONTROL DUST MIGRATION TO THE CORRIDOR.

DAVID R. POLSTON REGISTERED ARCHITECT 3275 NORTH CAROLINA WILMINGTON, N.C.
6-18-2014

LIBERTY HEALTHCARE ROXBORO
Roxboro, North Carolina

David R. Polston - Architect
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Architecture Planning Design

BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

A 3

ROOM FINISH SCHEDULE

NO.	ROOM	FLOOR: VINYL PLANK FLOORING	FLOOR: VINYL COMP. TILE	FLOOR: CARPET	FLOOR: SHEET VINYL	FLOOR: CERAMIC TILE	BASE: 6" RUBBER BASE	BASE: CERAMIC TILE	BASE: WOOD BASE	WALLS: PAINTED G.W.B.	WALLS: PAINTED MR. G.W.B.	WALLS: F.R.P. PANELS	WALLS: CERAMIC TILE ON WET WALL OF BATH	WALLS: FULL HEIGHT CERAMIC TILE AT SHOWER UNIT	WALLS: MATCH EXISTING	CLG.: PAINTED G.W.B.	CLG.: PAINTED MR. G.W.B.	CEILING HEIGHT	REMARKS
1	LIVING / DINING ROOM	●							●	●						●		8'-0"	
2	NURSES' STATION	●					●			●						●		8'-0"	
3	MED. PREP.		●				●			●						●		8'-0"	
4	TOILET				●		●			●						●		8'-0"	
5	CLN. UTIL. / CLN. LINEN		●				●			●						●		7'-6"	SEE DETAIL # 706, SHEET A-7
6	WHL-CHAIR STOR.		●				●			●						●		8'-0"	
7	SOIL UTIL. / SOIL LINEN		●				●					●				●		7'-6"	SEE DETAIL # 706, SHEET A-7
8	NOUR. STATION		●				●			●						●		8'-0"	
9	BATH					●		●			●		●	●			●	8'-0"	
10	CORRIDOR	●					●								●	●		8'-0"	

NOTES:

1. ALL G.W.B. TO BE 5/8" FIRECODE G.W.B. FIRECODE G.W.B.
2. ALL BASE TO HAVE FACTORY MADE CORNERS.

DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR SIZE	DOOR MATERIAL	DOOR TYPE	DOOR LABEL	FRAME MATERIAL	FRAME LABEL	FRM. TYPE	HARDWARE	NOTES
1	3'-8" X 6'-8"	ALUM	2	——	ALUM	——	2	1,3,4,12,14,15,16	
2	7'-4" X 6'-8"	ALUM	3	——	ALUM	——	1	1,3,4,12,14,15,16	
3	3'-0" X 6'-8"	SCW	1	LRDA	HWM	——	1	1,3,4,5,6,7	
4	3'-0" X 6'-8"	SCW	1	LRDA	HWM	——	1	1,2,3,4,5,6	
5	3'-0" X 6'-8"	SCW	1	45MIN	HWM	45MIN	1	1,3,4,5,6,7	"S" LABEL
6	3'-0" X 6'-8"	SCW	1	LRDA	HWM	——	1	1,3,4,5,6,7	
7	3'-0" X 6'-8"	SCW	1	45MIN	HWM	45MIN	1	1,3,4,5,6,7	"S" LABEL
8	3'-0" X 6'-8"	SCW	1	LRDA	HWM	——	1	1,3,4,5,6,7	
9	3'-0" X 6'-8"	SCW	1	LRDA	HWM	——	1	1,2,3,4,5,6	
10	7'-4" X 6'-8"	SCW	4	LRDA	HWM	——	1	1,3,4,5,10,12,13	DOUBLE EGRESS FRAME

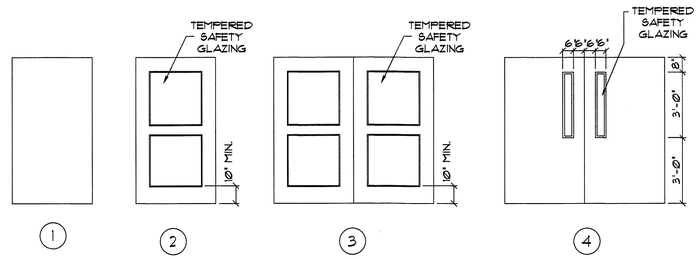
"S" LABEL FOR FIRE RATED DOOR ASSEMBLY TESTED AND APPROVED FOR SMOKE RESISTANCE.
"LRDA" LEAKAGE RATED DOOR FOR SMOKE AND DRAFT CONTROL.

HARDWARE ITEMS:

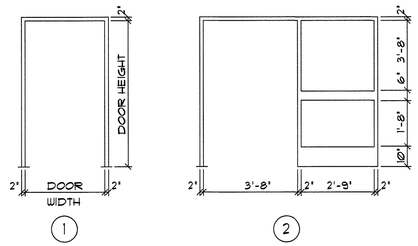
1. FULL METAL BALL BEARING HINGLES
2. LEVER HANDLE PRIVACY LOCK
3. CLOSER
4. WALL MOUNTED DOOR BUMPER WITH ADEQUATE WOOD BLOCKING
5. 16" HIGH KICK PLATE
6. DOOR SILENCERS
7. LEVER HANDLE KEYPAD LOCKSET
8. LEVER HANDEL LOCKSET (STORAGE FUNCTION)
9. LEVER HANDLE LOCKSET (OFFICE FUNCTION)
10. PUSH / PULL PLATES
11. MAGNETIC HOLD OPEN DEVICE
12. MAGNETIC LOCKS
13. METAL ASTRAGAL
14. U.L. LISTED PANIC DEVICE
15. METAL THRESHOLD
16. WEATHERSTRIPPING

WALL RATING LEGEND

1-HOUR FIRE BARRIER WALL (1-HR. FB. W.) REQUIRED BY TABLE 509 NCSBC



DOOR TYPES



TOILET ACCESSORIES SCHEDULE

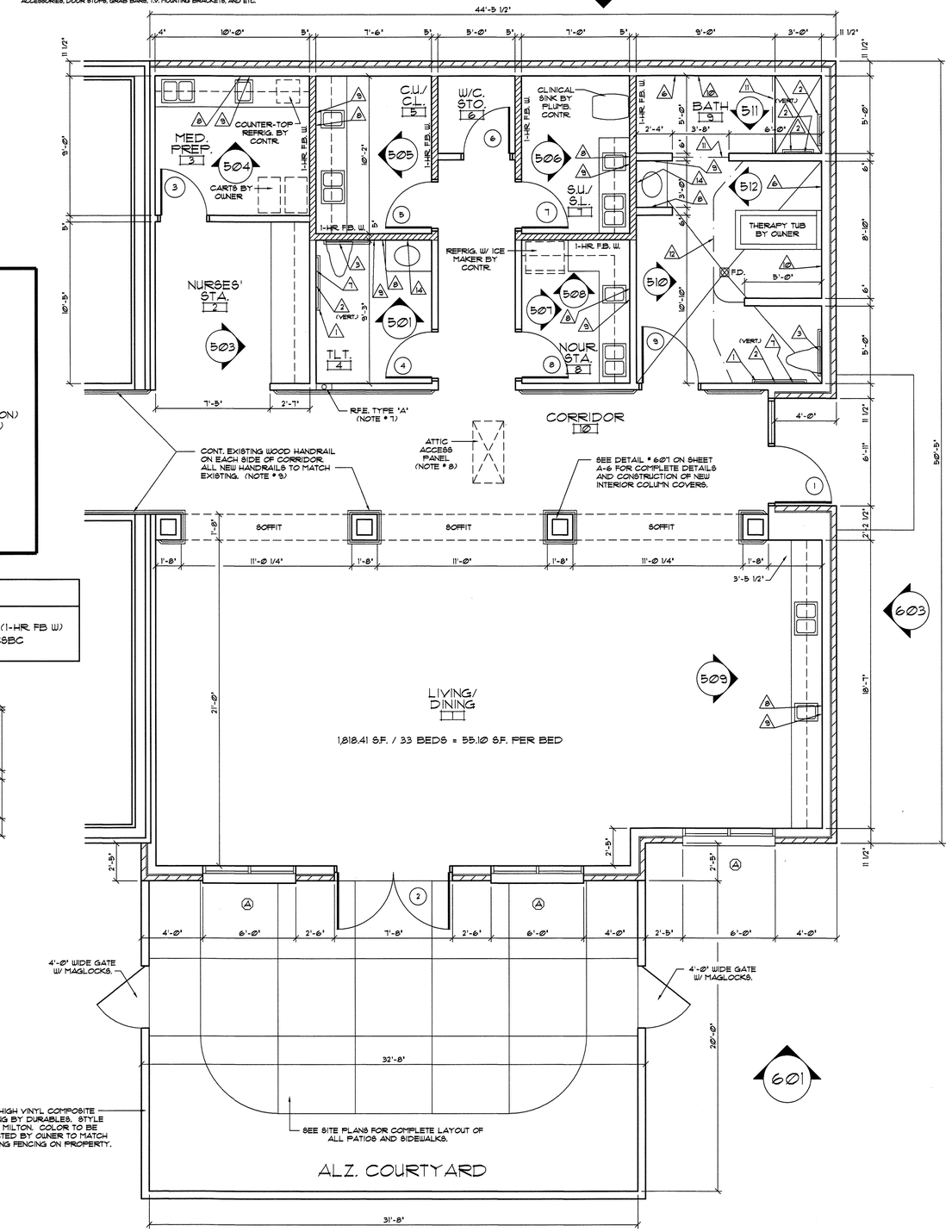
△	DESCRIPTION	MANUF.	CATALOG NO.	△	DESCRIPTION	MANUF.	CATALOG NO.
1	GRAB BAR- 1 1/2" X 42" LONG	BOBRICK	B- 6806 x 42"	9	PAPER TOWEL DISPENSER	BY OWNER	INSTALL BY G.C.
2	GRAB BAR- 1 1/2" X 24" LONG	BOBRICK	B- 6806 x 24"	10	ROBE HOOK	MOEN	DN6803BN
3	GRAB BAR- 1 1/2" X 36" LONG	BOBRICK	B-6806 x 36"	11	SHOWER CURTAIN ROD	BOBRICK	B- 6107
4	GRAB BAR- 1 1/2" X 12" LONG	BOBRICK	B- 6806 x 12"	12	PRIVACY CURTAIN TRACK	ARNCO	1200
5	GRAB BAR- 1 1/2" X 30" LONG	BOBRICK	B- 6806 x 30"	13	MOP HOOK RACK	BY OWNER	——
6	TOWEL BAR- 24" LONG	MOEN	DN6824BN	14	MIRROR - 23 1/2" X 31 1/2"	GATCO	43398 SATIN NICKEL FINISH
7	TOILET PAPER DISPENSER	MOEN	DN6808BN				
8	SOAP DISP.- WALL MNTED.	BY OWNER	INSTALL BY G.C.				

TOILET ACCESSORY NOTES:

1. SEE 1/4" SCALE FLOORPLANS AND INTERIOR ELEVATIONS FOR LOCATION OF TOILET ACCESSORIES.
2. G.C. SHALL PROVIDE CONCEALED BLOCKING IN WALLS AND ABOVE CEILING AS REQUIRED FOR SECURE MOUNTING OF ACCESSORIES.
3. MOUNTING HEIGHTS SHALL MEET HANDICAPPED REQUIREMENTS AND STATE BUILDING CODES.
4. TOILET ACCESSORY ITEMS # 8 AND # 9 ARE TO BE PROVIDED BY OWNER AND INSTALLED BY G.C.
5. TOILETS ACCESSORIES # 6, # 7, # 10, AND # 14 ARE TO BE PER LISTED MANUFACTURER, CATALOG NUMBER, AND FINISH.

GENERAL FLOOR PLAN NOTES:

1. 5/8" TYPE 'X' G.W.B. TO BE USED THROUGH-OUT THE BUILDING EXCEPT AT TOILET, BATH, CLEAN UTILITY, SOIL UTILITY, AND BEHIND ALL SINKS WHERE 5/8" TYPE 'VHI' MUST BE USED.
2. ALL EXTERIOR STUDS TO BE 2" X 6" WOOD STUDS AT 16" O.C. ALL INTERIOR LOAD-BEARING STUDS TO BE 2" X 4" WOOD STUDS AT 16" O.C. ALL INTERIOR NON-LOAD BEARING STUDS TO BE 2" X 4" WOOD STUDS AT 16" O.C. VERIFY STUD DESCRIPTIONS W/ STRUCTURAL DRAWINGS.
3. ALL PARTITIONS WITH SEWER DRAINS AND VENTS OVER 2" IN DIAMETER MUST HAVE 2" X 6" MINIMUM STUDS.
4. PROVIDE THICKENED WALLS AS REQUIRED FOR ELECTRICAL PANELS AND RECESSED MECHANICAL EQUIPMENT (COORDINATE WITH ELEC. DWGS.)
5. LINE ALL WALLS OF CHASES FOR RECESSED ITEMS WITH 5/8" FIRECODE G.W.B. TO INSURE 1-HOUR RATING OF RATED PARTITIONS.
6. GENERAL CONTRACTOR SHALL PROVIDE CONCEALED BLOCKING FOR TOILET ACCESSORIES, DOOR STOPS, GRAB BARS, T.V. MOUNTING BRACKETS, AND ETC.
7. PROVIDE SEMI-RECESSED FIRE EXTINGUISHERS (R.F.E.) SEE FLOOR PLAN FOR LOCATION AND TYPE OF EXTINGUISHERS. TYPE 'A' - MIN. 4A 60 B:C
8. PROVIDE 24" X 48" 1-HR. RATED ATTIC ACCESS PANELS BY BABCOCK DAVIS PRD SERIES AS SHOWN ON THE FLOOR PLANS. SPACING OF TRUSSES AT ACCESS PANELS TO BE INCREASED AS PER MANUFACTURERS INSTRUCTIONS AND STRUCTURAL DRAWINGS (RAMP SIDES OF TRUSSES / BLOCKING WITH 5/8" FIRECODE TYPE 'X' GUSS. AS REQUIRED BY MANUFACTURERS INSTRUCTIONS. COORDINATE LOCATION OF THESE ATTIC ACCESS PANELS W/ LOCATIONS OF ATTIC H.V.A.C. UNITS TO MEET CURRENT DISTANCE REQUIREMENTS. ALL ATTIC DOORS TO BE SELF-CLOSING.
9. CONTINUOUS HANDRAILS ON EACH SIDE OF THE CORRIDORS. HANDRAIL TO MATCH EXISTING. SEE DETAIL # 6/09 FOR INSTALLATION.
10. CONTRACTOR TO VERIFY ACCURACY OF ALL FLOOR PLANS, FOUNDATION PLAN, AND ROOF FRAMING PLAN PRIOR TO START OF CONSTRUCTION. ALL WALL THICKNESS DIMENSIONS ARE NOMINAL.
11. PROVIDE CONCRETE SLABS AT ALL EXTERIOR DOORS.
12. PROVIDE CEILING EXP. JOINTS @ 20'-0" O.C. / COORDINATE LOCATIONS WITH ARCHITECT BEFORE INSTALLATION. PROVIDE WALL EXPANSION JOINTS AT DOOR JAMBS @ 30'-0" O.C.
13. CONTRACTOR TO SLOPE FLOOR OF BATH # 9. SLOPE FLOOR FROM PERIMETER OF ROOM TO FLOOR DRAIN AS SHOWN.
14. INTERIOR STRUCTURAL BEAMS TO BE UNWRAPPED WITH TWO LAYERS OF 5/8" FIRECODE G.W.B. U.L. BEAM ASSEMBLY N-5612. 1-HOUR RATED.
15. INTERIOR STRUCTURAL COLUMNS TO UNWRAPPED WITH TWO LAYERS OF 5/8" FIRECODE G.W.B. U.L. ASSEMBLY U-3518. 1-HOUR RATED.



401 **FLOOR PLAN** SCALE: 1/4" = 1'-0"

NEW ALZHEIMER STAFF SUPPORT AND COMMON AREA ADDITION

Rev 10/12/22

DAVID R. POLSTON REGISTERED ARCHITECT 3275 NORTH CAROLINA WILMINGTON, N.C.

6-18-2021

LIBERTY HEALTHCARE
ROXBORO
Roxboro, North Carolina

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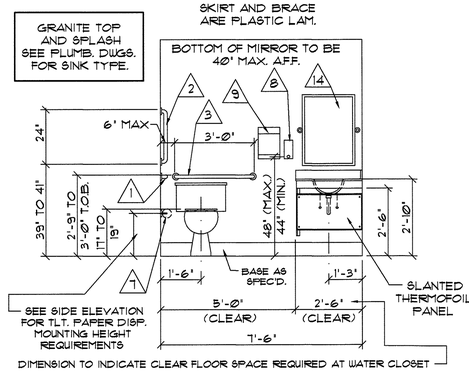
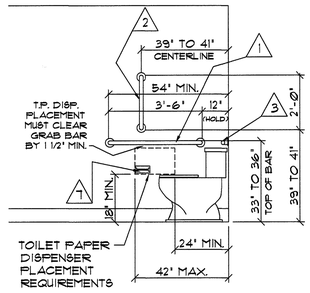
Architecture Planning Design

BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

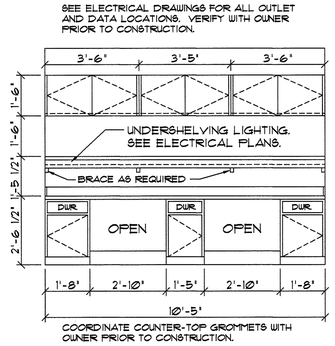
A 4



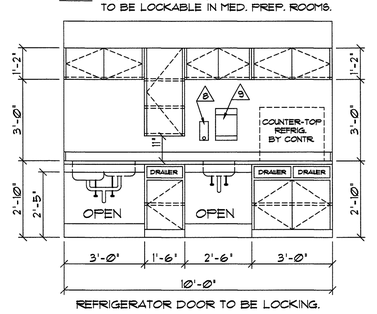
501 **ELEVATION** SCALE: 3/8"=1'-0" — TOILET # 4



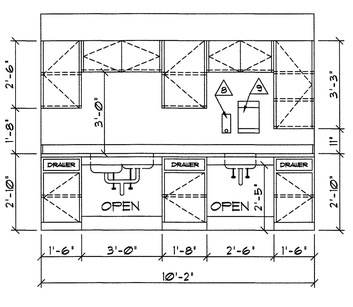
502 **ELEVATION** SCALE: 3/8"=1'-0" — SIDE WALL AT WATER CLOSET



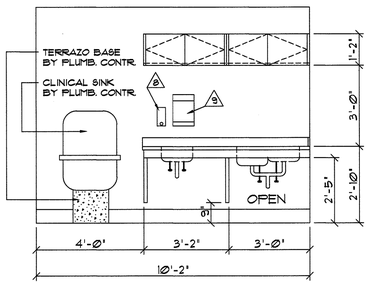
503 **ELEVATION** SCALE: 3/8" = 1'-0" — NURSES' STATION # 2



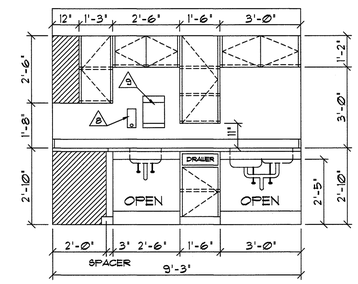
504 **ELEVATION** SCALE: 3/8" = 1'-0" — MED. PREP. # 3



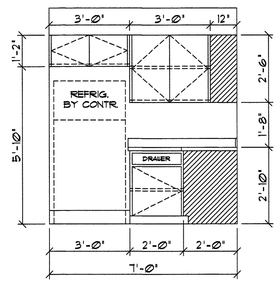
505 **ELEVATION** SCALE: 3/8" = 1'-0" — CLN. LINEN/ CLN. UTIL. # 5



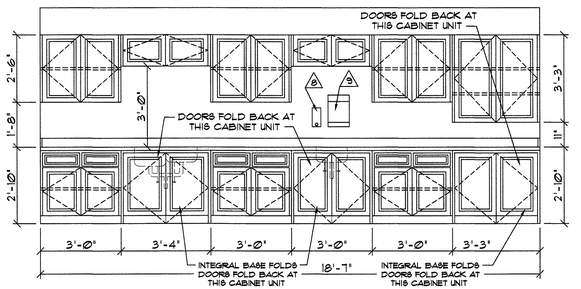
506 **ELEVATION** SCALE: 3/8" = 1'-0" — SOIL UTIL./ SOIL LINEN # 7



507 **ELEVATION** SCALE: 3/8" = 1'-0" — NOURISHMENT STATION # 8



508 **ELEVATION** SCALE: 3/8" = 1'-0" — NOURISHMENT STATION # 8

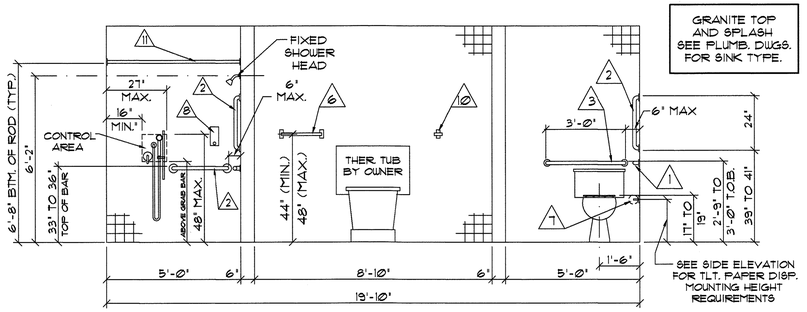


509 **ELEVATION** SCALE: 3/8" = 1'-0" — DINING ROOM # 1

TOILET ACCESSORIES SCHEDULE			
△	DESCRIPTION	MANUF.	CATALOG NO.
1	GRAB BAR- 1 1/2" X 42" LONG	BOBRICK	B- 6806 x 42"
2	GRAB BAR- 1 1/2" X 24" LONG	BOBRICK	B- 6806 x 24"
3	GRAB BAR- 1 1/2" X 36" LONG	BOBRICK	B-6806 x 36"
4	GRAB BAR- 1 1/2" X 12" LONG	BOBRICK	B- 6806 x 12"
5	GRAB BAR- 1 1/2" X 30" LONG	BOBRICK	B- 6806 x 30"
6	TOWEL BAR- 24" LONG	MOEN	DN6824BN
7	TOILET PAPER DISPENSER	MOEN	DN6808BN
8	SOAP DISP.- WALL MNTED.	BY OWNER	INSTALL BY G.C.
9	PAPER TOWEL DISPENSER	BY OWNER	INSTALL BY G.C.
10	ROBE HOOK	MOEN	DN6803BN
11	SHOWER CURTAIN ROD	BOBRICK	B- 6107
12	PRIVACY CURTAIN TRACK	ARNCO	1200
13	MOP HOOK RACK	BY OWNER	——
14	MIRROR - 23 1/2" X 31 1/2"	GATCO	43398 SATIN NICKEL FINISH

TOILET ACCESSORY NOTES:

1. SEE 1/4" SCALE FLOORPLANS AND INTERIOR ELEVATIONS FOR LOCATION OF TOILET ACCESSORIES.
2. G.C. SHALL PROVIDE CONCEALED BLOCKING IN WALLS AND ABOVE CEILING AS REQUIRED FOR SECURE MOUNTING OF ACCESSORIES.
3. MOUNTING HEIGHTS SHALL MEET HANDICAPPED REQUIREMENTS AND STATE BUILDING CODES.
4. TOILET ACCESSORY ITEMS # 8 AND # 9 ARE TO BE PROVIDED BY OWNER AND INSTALLED BY G.C.
5. TOILETS ACCESSORIES # 6, # 7, # 10, AND # 14 ARE TO BE PER LISTED MANUFACTURER, CATALOG NUMBER, AND FINISH.



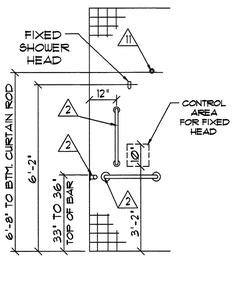
510 **ELEVATION** SCALE: 3/8"=1'-0" — BATH # 9

NOTE: PLUMBING CONTRACTOR TO INSULATE ALL EXPOSED H.W. AND WASTE PIPING AT SINKS.

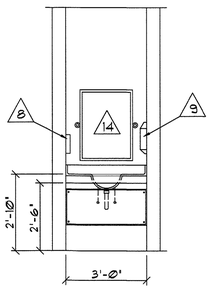
PROVIDE A MINIMUM OF ONE WALL CABINET AT ALL HANDICAPPED UNITS AT 46" MAX. A.F.F. TO BOTTOM SHELF.

NOTE: ALL CABINET HARDWARE TO BE HANDICAPPED ACCESSIBLE IN ORDER TO OPEN DRAWERS / DOORS WITHOUT GRASPING.

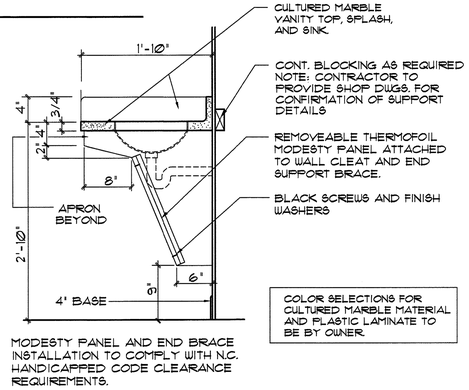
NOTE: CONTRACTOR TO VERIFY ALL MILLWORK FINISH MATERIALS AND COLORS WITH INTERIOR DESIGNER / OWNER PRIOR TO FABRICATION / INSTALLATION.



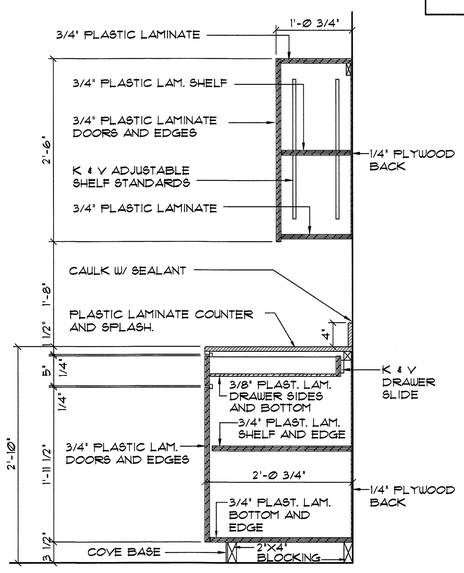
511 **ELEVATION** SCALE: 3/8"=1'-0"



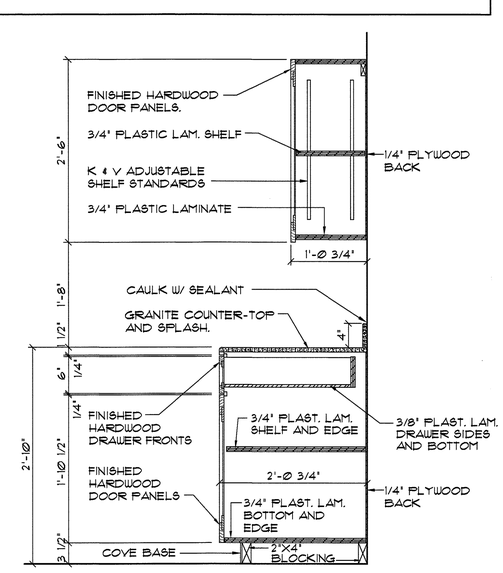
512 **ELEVATION** SCALE: 3/8"=1'-0" — BATH # 9



513 **DETAIL** SCALE: 1" = 1'-0" — TYPICAL TOILET ROOM VANITY SECTION



514 **DETAIL** SCALE: 1" = 1'-0" — TYPICAL CABINETS (STAFF SUPPORT LOCATIONS)



515 **DETAIL** SCALE: 1" = 1'-0" — TYPICAL CABINETS (LIVING / DINING # 1)

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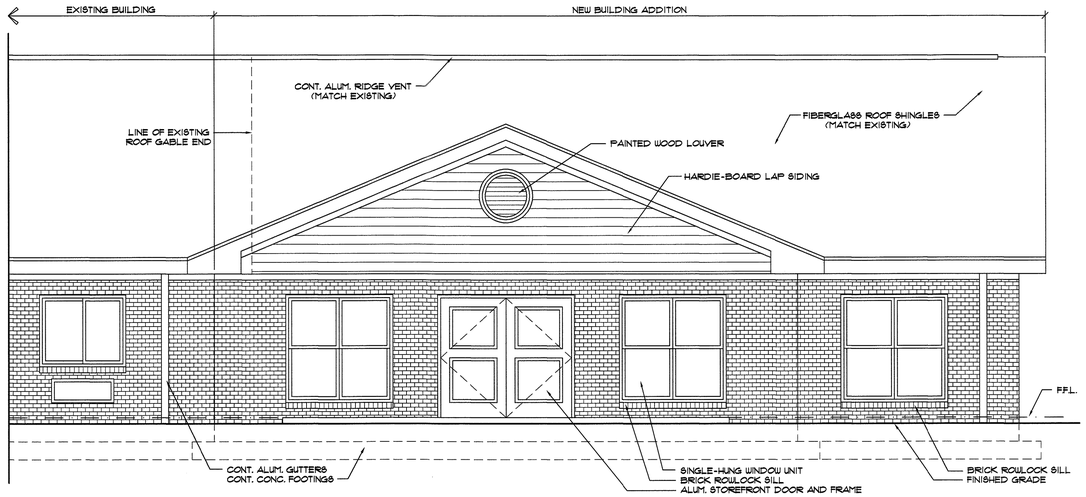
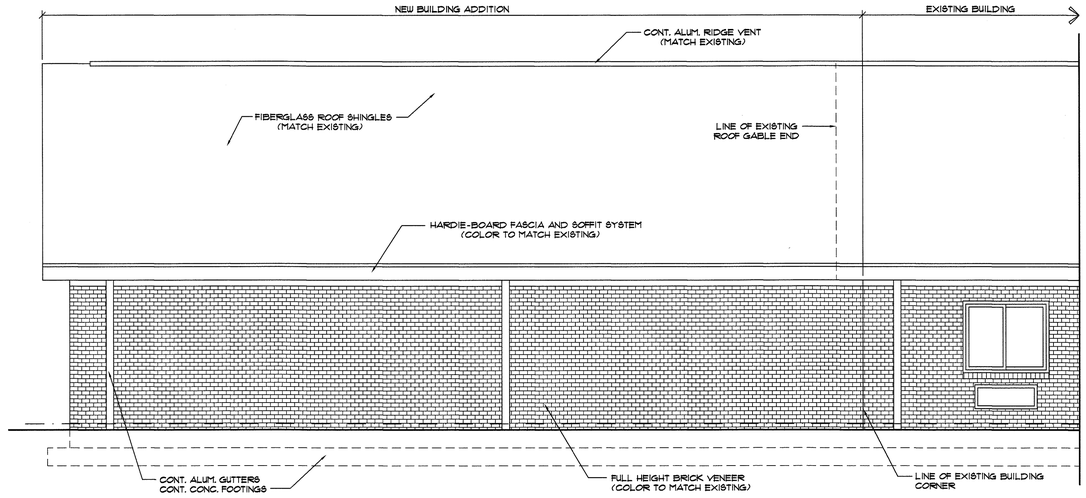
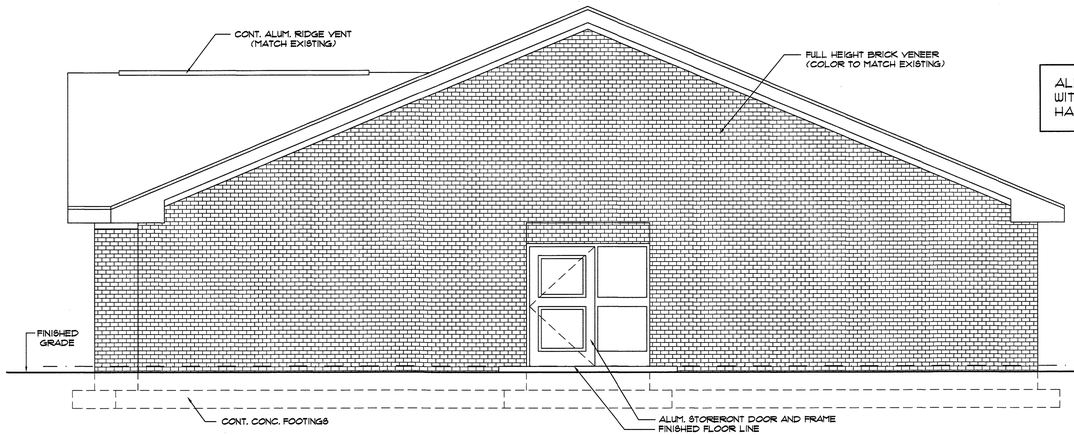


601 **ELEVATION**
SCALE: 1/4" = 1'-0"

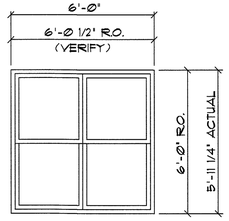


602 **ELEVATION**
SCALE: 1/4" = 1'-0"



603 **ELEVATION**
SCALE: 1/4" = 1'-0"

ALL WINDOW GLAZING TO COMPLY WITH CURRENT ENERGY CODE AND HAVE A U-VALUE OF .38 OR BETTER.



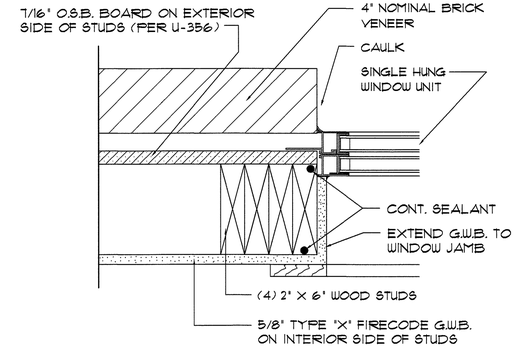
(A) GERKIN WINDOWS - RHINO SERIES
MODEL NO. 5900 - (2) 36" X 72"
SINGLE-HUNG WINDOW UNIT

ALL WINDOW UNITS TO BE COMPLETE, INCLUDING FLASHING, INSULATING GLASS, OPERABLE HARDWARE, AND INSECT SCREENS FOR OPERABLE UNITS.

WINDOW UNIT "A" TO HAVE TEMPERED SAFETY GLAZING.

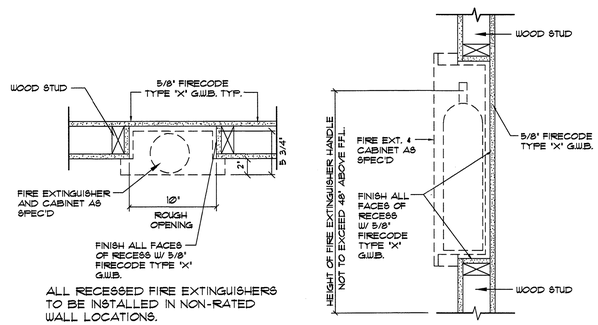
ALL WINDOWS TO BE OPERABLE WITH AN OPEN AREA NOT LESS THAN ONE-HALF THE REQUIRED WINDOW AREA. (U.N.O.)

604 **DETAIL** WINDOW SCHEDULE
SCALE: N.T.S.



VERIFY FLASHING REQUIREMENTS W/ MANUFATURER'S INSTALLATION INSTRUCTIONS.

605 **DETAIL** JAMB AT SINGLE-HUNG WINDOW UNIT
SCALE: N.T.S.



ALL RECESSED FIRE EXTINGUISHERS TO BE INSTALLED IN NON-RATED WALL LOCATIONS.

PLAN

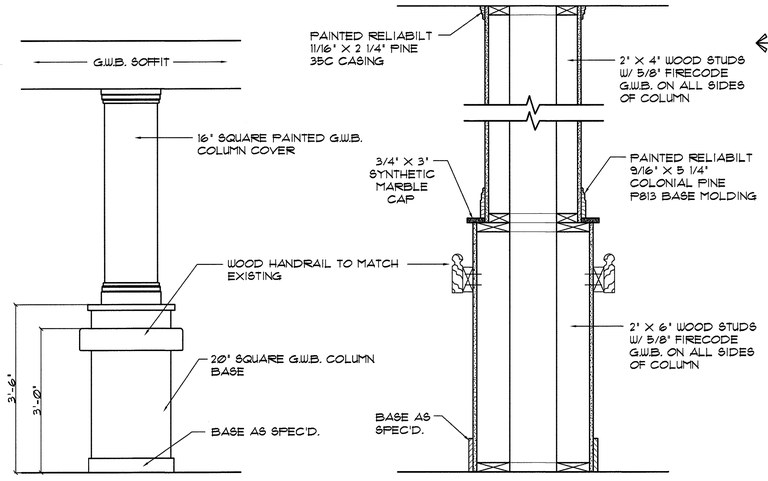
CROSS-SECTION

FIRE EXTINGUISHERS SHALL BE:

TYPE 'A' :
POTTER-ROEMER NO. 3010
10 LB. 4A:60 B:C
CLASS A B C FIRES
ABC MULTIPURPOSE DRY CHEMICAL

CABINETS:
POTTER-ROEMER NO. 1724RR
VERIFY THE OPENING SIZE
OPENING SIZE 10" X 25" X 3 7/8"

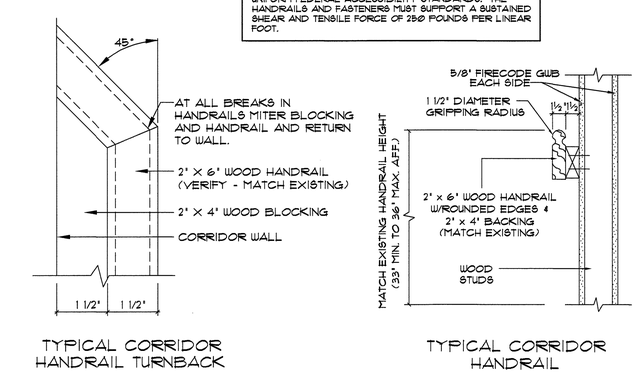
606 **DETAIL** TYP. FIRE EXTINGUISHERS / CABINET DETAILS
SCALE: N.T.S.



ELEVATION SECTION

INTERIOR STEEL COLUMNS TO BE WRAPPED WITH (2) LAYERS OF 5/8" FIRECODE G.W.B. PRIOR TO CONSTRUCTING THE FINISHED COLUMN.

607 **DETAIL** INTERIOR COLUMN CONSTRUCTION
SCALE: N.T.S.



NOTE:
THE HANDRAILS SHALL COMPLY WITH 4.26 OF THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS. THE HANDRAILS AND FASTENERS MUST SUPPORT A SUSTAINED SHEAR AND TENSILE FORCE OF 250 POUNDS PER LINEAR FOOT.

TYPICAL CORRIDOR HANDRAIL TURNBACK

TYPICAL CORRIDOR HANDRAIL

608 **DETAIL** HANDRAIL DETAILS
SCALE: N.T.S

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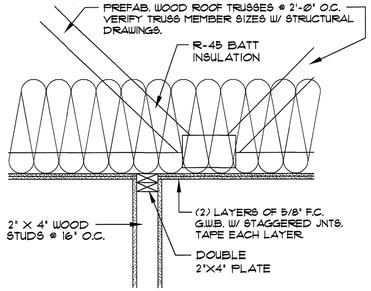
WILMINGTON, N.C.

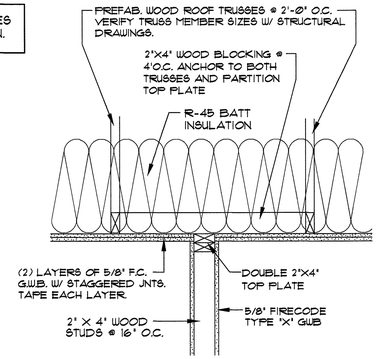
6-18-2020

A6

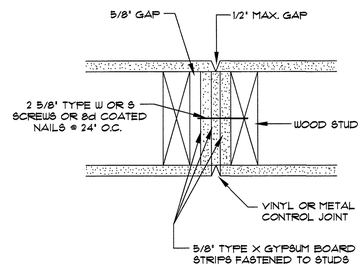
NOTE: VERIFY ALL STEEL BEAMS, HEADERS, AND COLUMN SIZES WITH THE STRUCTURAL SHEETS PRIOR TO CONSTRUCTION.



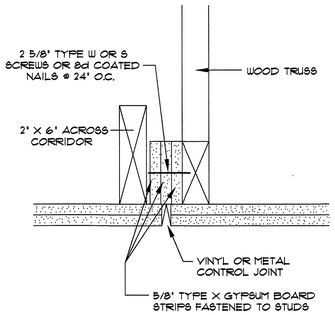
T01 **DETAIL** SCALE: N.T.S. — TYP. INTERIOR PARTITION PERPENDICULAR TO ROOF TRUSSES



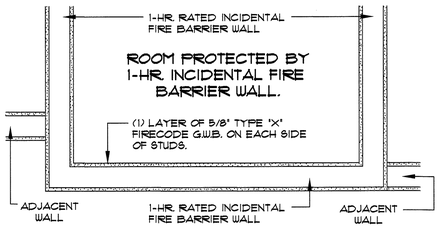
T02 **DETAIL** SCALE: N.T.S. — TYP. INTERIOR PARTITION PARALLEL TO ROOF TRUSSES



T03 **DETAIL** SCALE: N.T.S. — TYPICAL WALL CONTROL JOINT (1-HR. WALL)

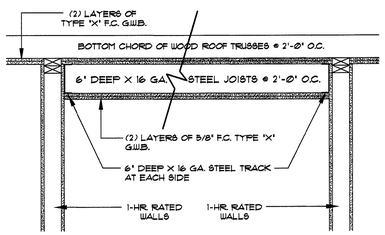


T04 **DETAIL** SCALE: N.T.S. — TYPICAL CEILING CONTROL JOINT (1-HR. RATED)



SEE FLOOR PLANS FOR LOCATIONS OF THE ROOMS REQUIRING THIS TYPE OF PROTECTION.

T05 **FLOORPLAN** SCALE: 1"=1'-0" — TYPICAL CONSTRUCTION OF ROOM PROTECTED BY 1-HR. RATED INCIDENTAL FIRE BARRIER WALLS



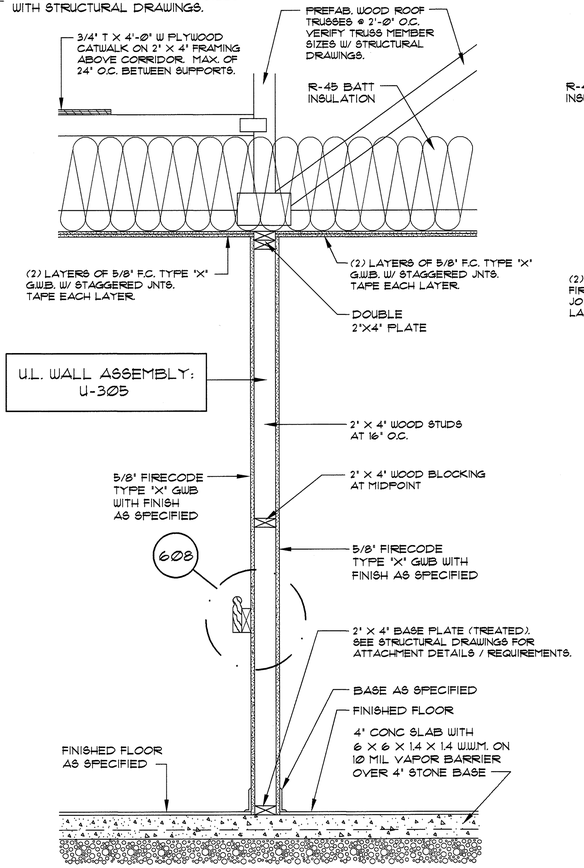
ROOMS LISTED BELOW ARE TO RECEIVE 1-HR. HORIZ. SEPERATION. (REQUIRED BY TABLE 508.2.5 NCSBC)	
CLN. UTIL. / CLN. LINEN # 5	SOIL UTIL. / SOIL LINEN # 7

FACTORY MUTUAL TEST FC 205-1
GYPSUM ASSOCIATION FC-4503

T06 **DETAIL** SCALE: N.T.S. — ONE HOUR HORIZONTAL SEPERATION

ROOF / CEILING ASSEMBLY: GYPSUM ASSOCIATION RC-2602

NOTE: VERIFY ALL TRUSS MEMBER SIZES WITH STRUCTURAL DRAWINGS.

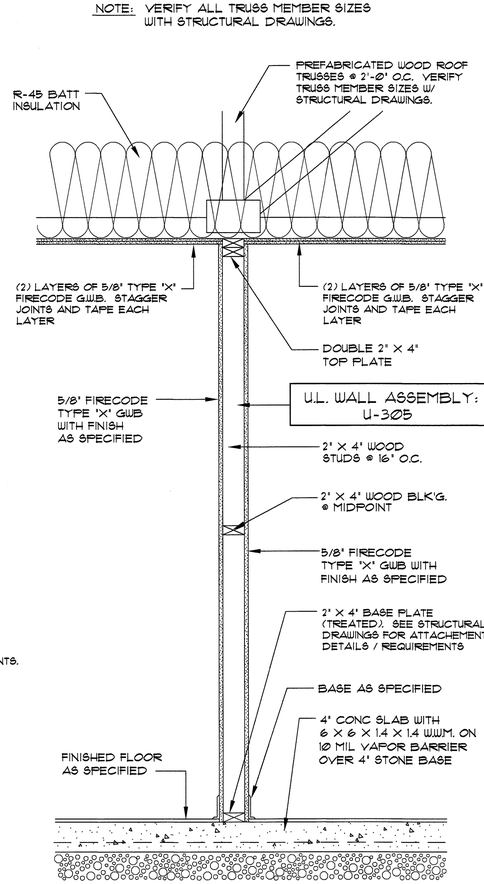


NOTE: SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF CORRIDOR WALLS THAT WILL BE USED AS BEARING WALLS. SEE STRUCTURAL DRAWINGS FOR DETAILS / DESIGN OF THE THICKENED SLABS USED AT THESE LOCATIONS.

T07 **SECTION** SCALE: 1"=1'-0" — TYPICAL CORRIDOR WALL

ROOF / CEILING ASSEMBLY: GYPSUM ASSOCIATION RC-2602

NOTE: VERIFY ALL TRUSS MEMBER SIZES WITH STRUCTURAL DRAWINGS.



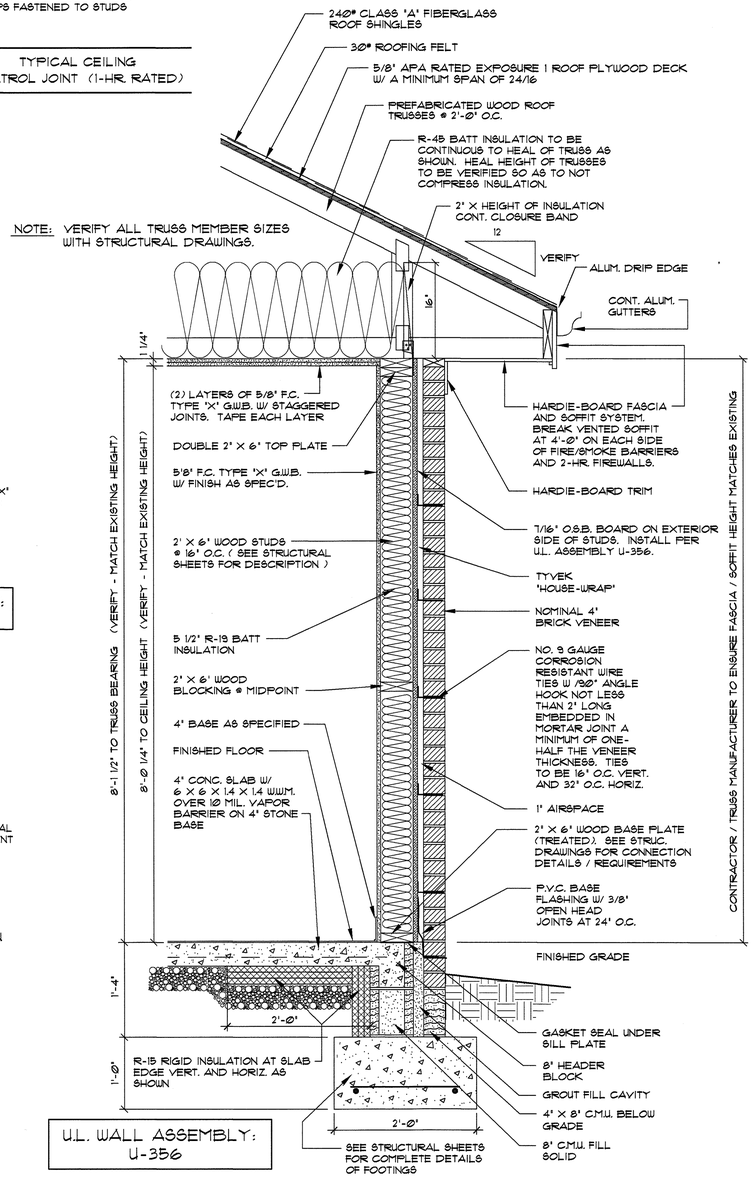
NOTE: SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF CORRIDOR WALLS THAT WILL BE USED AS BEARING WALLS. SEE STRUCTURAL DRAWINGS FOR DETAILS / DESIGN OF THE THICKENED SLABS USED AT THESE LOCATIONS.

T08 **SECTION** SCALE: 1"=1'-0" — TYPICAL INTERIOR PARTITION

NOTE: VERIFY ALL STEEL BEAMS, HEADERS, AND COLUMN SIZES WITH THE STRUCTURAL SHEETS PRIOR TO CONSTRUCTION.

ROOF / CEILING ASSEMBLY: GYPSUM ASSOCIATION RC-2602

NOTE: VERIFY ALL TRUSS MEMBER SIZES WITH STRUCTURAL DRAWINGS.



T09 **SECTION** SCALE: 1"=1'-0" — TYPICAL EXTERIOR WALL

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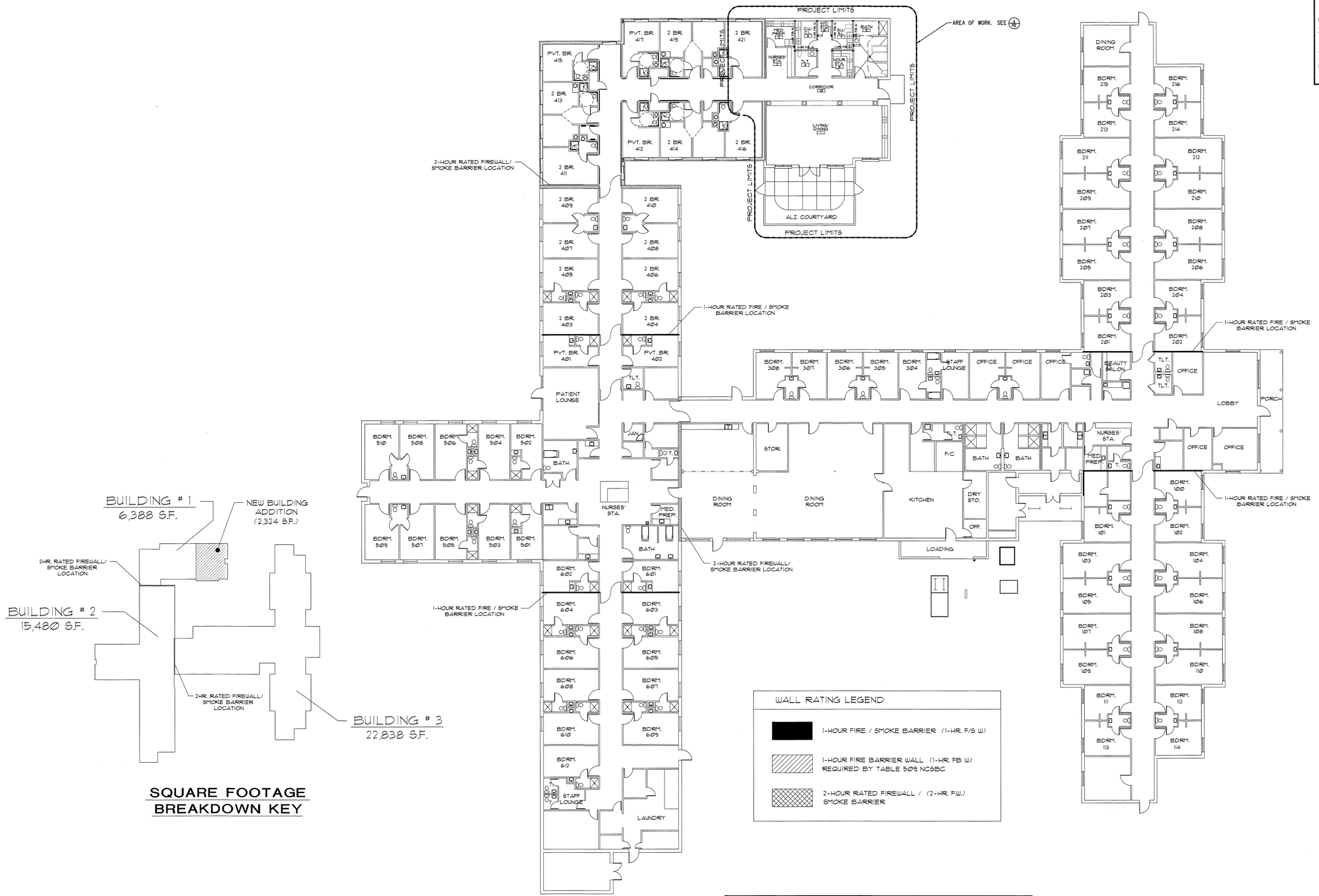

SQUARE FOOTAGE BREAKDOWN KEY

A / P1 — **Composite Floor Plan w/Alzheimer Addition**
SCALE: 1/16" = 1'-0"

symbol	date	description	by
REVISIONS			

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P 1

DSA #26930

TIME- 6:48 DATE- 09/17/2026 DRAWING LOCATION- F:\PROJECTS\2026\26930\Planwork\DWG\26930p1.dwg

ESTIMATED BUILDING DRAIN LOAD:
EXISTING=418 DFU
NEW=46 DFU
NEW TOTAL=464 DFU
EXISTING 6" SANITARY SEWER TO REMAIN

TIE NEW 4" SAN INTO EXISTING 6" SAN IN THIS LOCATION. VERIFY EXACT LOCATION, SIZE AND DEPTH BEFORE INSTALLING ANY NEW SAN PIPE

ROUTE 1-1/4" C & 1/2" 110 DOWN WALL AND SUPPLY AS SHOWN :
- 1/2"C & 1/2"110 TO SPRAYER
- 1"C TO FLUSH VALVE
- 1/2"C & 1/2"110 TO SERVICE FAUCET.

PIPE SIZES AND CONNECTIONS FOR OWNER PROVIDED TUB SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS

SEE P2 FOR WATER PIPING @ WATER HEATER & WATER RISER

TIE NEW 1-1/2"CW INTO EXISTING 2"CW LINE IN THIS AREA

2" MAIN WATER SUPPLY

EXISTING HOSEBIB TO BE REMOVED. CUT AND CAP EXISTING WATER LINE OUT OF SIGHT OF FINISHED CONSTRUCTION.

EXISTING 6" WASTE LINE

4'-0" WIDE GATE W/ MAGLOCKS.

4'-0" WIDE GATE W/ MAGLOCKS.

A	New Alzheimer Staff Support and Common Area Addition Plumbing Plan
P2	SCALE: 1/4" = 1'-0"

symbol	date	description	by
		REVISIONS	

DSA #26930

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P2

PLUMBING SPECIFICATIONS

1501 GENERAL
A. CODES, REGULATIONS AND STANDARD INSTALLATIONS ARE TO COMPLY WITH THE LATEST EDITION OF THE NORTH CAROLINA BUILDING AND PLUMBING CODES AND ALL OTHER APPLICABLE LOCAL AND NATIONAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE CODE AND THE DRAWINGS AND SPECIFICATIONS OR BETWEEN VARIOUS CODES, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
B. FEES AND PERMITS: PROVIDE ALL LICENSES, FEES, PERMITS, HEALTH DEPARTMENT FEES, INSURANCE, ETC., REQUIRED FOR EXECUTION OF THIS WORK.
C. THE CONTRACT DRAWINGS ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW ALL FITTINGS, BOLTS, CONNECTIONS, OFFSETS, ETC., UNLESS SPECIFICALLY DIMENSIONED. THE PLUMBING CONTRACTOR SHALL FOLLOW THE DRAWING AS CLOSELY AS POSSIBLE; HOWEVER, NECESSARY ADJUSTMENTS SHALL BE MADE AS REQUIRED TO CONFORM TO STRUCTURAL CONDITIONS, WORK OF OTHER CONTRACTORS AND THE INTENT OF THE DRAWINGS WITHOUT ADDITIONAL COST TO THE OWNER. THE DRAWINGS SHALL NOT BE SCALED. SECURE DIMENSIONS FROM ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS.
D. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL MATERIALS, PERFORM ALL WORK AND TEST AND PAY ALL FEES NECESSARY TO MAKE THE PLUMBING SYSTEM OPERABLE AND READY FOR USE BY THE OWNER.
E. GUARANTEE: ALL NEW EQUIPMENT, NEW MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER.
F. PLUMBING CONTRACTORS SHALL BE RESPONSIBLE FOR HIS OWN CLEAN UP AND REMOVAL OF SCRAP FROM JOB SITE. PLUMBING CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA.
G. IN CASE OF ANY CONFLICT BETWEEN INFORMATION FOUND IN THE PLANS, OR IN THE SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL TAKE PRECEDENT.
H. THE PLUMBING DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE DESIGN FOR ROOF GUTTER SYSTEMS OR ROOF DRAIN SYSTEMS.
I. ALL PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE REQUIREMENTS FOR SEISMIC DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE CONTACT SEISMIC CONTROL AND ISOLATIONS, INC. PHONE: 910 799-5204. ALL REQUIRED INSPECTIONS FOR THESE DESIGNS SHALL BE PERFORMED BY APPROVED INSPECTORS AND AGENCIES PROVIDED BY OWNER OR OWNER'S AGENT.
J. ALL ROOF MOUNTED MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE REQUIREMENTS FOR WIND DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE, CONTACT SEISMIC CONTROL AND ISOLATION, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED INSPECTORS AND AGENCIES HIRED BY THE OWNER OR OWNER'S AGENT AS REQUIRED BY THE BUILDING CODE.
K. THE ENGINEER IS NOT RESPONSIBLE FOR JOB SITE SAFETY.

1502 SCOPE
WORK SHALL INCLUDE BUT IS NOT LIMITED TO:
A. PROVIDE FIXTURES AND INSTALL AND CONNECT WASTE AND WATER PIPE AS SHOWN ON DRAWINGS.
B. ROUTE WASTE AND WATER TO TIE INTO EXISTING WASTE AND WATER LINES INSIDE BUILDING.
C. CHLORINATE WATER SYSTEM.
D. PERFORM REQUIRED DEMOLITION AS INDICATED ON DRAWINGS AND/OR IN THESE SPECIFICATIONS.

1503 MATERIALS.
A. HANGERS:
1. SPACING FOR COPPER PIPE SHALL BE AS FOLLOWS:
1" & SMALLER 6'-0" O.C.
1-1/4" & 1-1/2" 8'-0" O.C.
3" & LARGER 10'-0" O.C.
2. SPACING FOR CARBON STEEL AND CAST IRON PIPE SHALL BE AS FOLLOWS:
1" & SMALLER 7'-0" O.C.
1-1/2" & 2" 10'-0" O.C.
2-1/2", 3" & 4" 12'-0" O.C.
3. SPACING FOR PVC PIPE SHALL BE AS FOLLOWS:
1-1/2" & SMALLER 2'-0" O.C.
2" 3'-0" O.C.
2" TO 4" 5'-0" O.C.
4. SPACING FOR CPVC PIPE SHALL BE AS FOLLOWS:
1" & SMALLER 3'-0" O.C.
1-1/4 TO 2" 4'-0" O.C.
5. HANGER FOR HORIZONTAL PIPING SHALL BE THE CLEVIS TYPE.
6. HANGERS FOR BARE COPPER PIPING SHALL BE COPPER PLATED.
7. HANGER FOR INSULATED PIPING SHALL EXTEND AROUND THE INSULATION. PROVIDE 16 GAUGE GALVANIZED STEEL INSULATION PROTECTION SADDLES 12" LONG AT EACH HANGER ON ALL INSULATED LINES AND HARD INSULATION INSERTS AT SADDLES.
8. A HANGER SHALL BE FASTENED BY MEANS OF THREADED RODS TO BUILDING STRUCTURE. ALL HANGERS SHALL PERMIT ADEQUATE ADJUSTMENT AFTER ERECTION WHILE STILL SUPPORTING THE LOAD.
9. A HANGER SHALL BE PROVIDED WITHIN ONE FOOT OF EACH BEND IN HORIZONTAL PIPING.
10. SUPPORT MATERIAL SHALL BE PROPERLY CHOSEN TO AVOID ATMOSPHERIC CORROSION AND TO AVOID GALVANIC CORROSION DUE TO CONTACT OF SUPPORT AND ADJACENT MATERIALS.

C. HOT AND COLD WATER PIPES BEGINNING 5' FROM BUILDING WALL:
1. PIPE SHALL BE TYPE L COPPER TUBING ABOVE GRADE AND TYPE K BELOW GRADE.
2. FITTINGS SHALL BE MADE USING SOLDER AS PER THE N.C. PLUMBING CODE FOR POTABLE WATER.

D. ACCEPTABLE ALTERNATE:
HOT AND COLD WATER PIPES BEGINNING 5' FROM BUILDING WALL:
1. CPVC IS AN ACCEPTABLE ALTERNATE FOR ALL WATER PIPING. ITEM P UNDER EXECUTION SHALL BE COMPLETELY MET. IN PARTICULAR, THE CONTRACTOR MUST BE CERTIFIED BY THE MANUFACTURER FOR CPVC INSTALLATION.
2. PIPE AND FITTINGS SHALL BE CPVC. FLOWGUARD GOLD OR EQUAL FOR 2"ø AND BELOW. CORZAN OR EQUAL FOR ABOVE 2"ø.
3. FITTINGS SHALL BE MADE AS PER MANUFACTURER'S INSTRUCTIONS AND AS PER THE N.C. PLUMBING CODE FOR POTABLE WATER.

E. VENT AND WASTE PIPE - WASTE AND VENT PIPE SHALL BE SCH 40 PVC-DWV AS PER ASTM 2665 D WITH SOLVENT WELD JOINTS EXCEPT AS NOTED BELOW. PVC SHALL NOT BE USED IN A RETURN AIR PLENUM. FOR RETURN AIR PLENUMS CAST IRON SHALL BE USED. TRANSITION FROM PVC TO CAST IRON SHALL BE MADE WITH CODE APPROVED TRANSITION FITTINGS DESIGNED EXPRESSLY FOR THAT PURPOSE. ALL FITTINGS SHALL BE SANITARY DRAINAGE PATTERN.

F. VALVES:
1. WATER GATE VALVES SHALL BE OF BRASS CONSTRUCTION WITH SOLDER JOINT FITTINGS.
2. ALL VALVES SHALL BE AS PER PLUMBING CODE.

G. INSULATION:
1. WATER PIPING IN UNCONDITIONED UTILITY ROOM, ATTIC SPACE OR INSTALLED OUTSIDE BUILDING INSULATION SHALL BE INSULATED WITH 2" THICK FIBERGLASS WITH VAPOR BARRIER JACKET. UTILITY ROOM INSULATION SHALL ALSO HAVE A PVC JACKET, STAPLED AND TAPED.
2. EXPOSED HOT AND COLD WATER LINES AND WASTE LINES UNDER HANDICAP LAVATORIES AND SINKS SHALL BE INSULATED WITH FULLY MOLDED, TRUEBRO, HANDI-LAV GUARD INSULATION KIT.
3. UNDERGROUND LINES BELOW FROST LINE SHALL NOT BE INSULATED.
4. ALL OTHER WATER PIPING SHALL BE INSULATED AS FOLLOWS:
A. COLD WATER PIPING SHALL HAVE 1/2" ARMAFLEX.
B. HOT WATER PIPING SHALL HAVE 1" ARMAFLEX ON FIRST 8' OF PIPE FROM WATER HEATER AND 1/2" ARMAFLEX IN ALL OTHER PLACES.
C. ON RECIRCULATED SYSTEMS HOT WATER SUPPLY AND RETURN LINES, IN THE LOOP, SHALL HAVE 1" ARMAFLEX.

H. VENTS SHALL PENETRATE ROOF WITH FLEXIBLE BOOTS WITH FLASHING FLANGE.

1504 EXECUTION
A. ALL HOLES THROUGH WALLS, FLOORS AND CEILINGS ARE TO BE DRILLED, NOT BROKEN. ROUND ALL SHARP EDGES TO DRILLED HOLES.
B. LINES ARE NOT TO BE COVERED UNTIL INSPECTED BY THE ARCHITECT.
C. WRAP COPPER PIPE WITH DUCT TAPE WHERE IT PENETRATES THE FLOOR.
D. DO NOT MAKE A WATER LINE JOINT UNDER THE SLAB.
E. A WATER HAMMER ARRESTOR SHALL BE INSTALLED AT FIXTURES THAT HAVE QUICK CLOSING VALVES WHEN MATELLIC PIPE IS INSTALLED. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. WATER HAMMER ARRESTORS SHALL COMPLY WITH ASSE 1010.
F. WASTE PIPES PASSING UNDER OR THROUGH FOUNDATIONS OR THROUGH LOAD BEARING SECTIONS OF A WALL SHALL BE ROUTED THROUGH D.I. SLEEVES AT LEAST TWO PIPE SIZES LARGER THAN THE WASTE PIPE.
G. PROVIDE SUFFICIENT HANGERS, SUPPORTS, CLAMPS, CLIPS, INSERTS AND MAINTAINING DEVICES TO SUPPORT ALL PIPING AS PER GOOD PIPING PRACTICE AND TO MAINTAIN PROPER DRAINAGE.
H. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S INSTRUCTIONS AND PERTINENT RECOMMENDATIONS.
I. INSTALL UNDERGROUND PIPE AS PER MANUFACTURER'S RECOMMENDATIONS. TRENCH SHALL BE CLEAR OF ALL ROCKS AND OTHER ABRASIVE MATERIALS. TRENCH BOTTOM SHALL BE COMPACTED AND FULLY SUPPORT PIPE. FILL DIRT TO 6" ABOVE TOP OF PIPE TO BE CLEAN AND FREE OF ABRASIVE MATERIALS. FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS FOR PIPE BEDDING GIVEN SOIL CONDITIONS.
J. PLUMBING CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ASSURE THAT ALL PIPE INTERFERENCES (FOUNDATIONS, CABLES, OTHER PIPING, ETC.) ARE AVOIDED BY UNDERGROUND PLUMBING.
K. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT PLUMBING WALLS ARE CONSTRUCTED TO ALLOW INSTALLATION OF FIXTURE CARRIERS. PLUMBING CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR PRIOR TO WALL CONSTRUCTION.
L. CONTRACTOR SHALL SUPPLY AND INSTALL FIXTURE HANGER AS REQUIRED FOR PROPER INSTALLATION.
M. WATER PIPE ROUTING THROUGH STUDS SHALL BE PROTECTED BY METAL STUD GUARDS.
N. INSTALL ALL WATER PIPING INSIDE OF BUILDING INSULATION IF POSSIBLE. WATER PIPING INSTALLED IN ATTIC SPACE MUST BE UNDER BATT INSULATION. IF BLOWN INSULATION IS USED IN ATTIC SPACE WATER PIPE SHALL BE INSULATED AS IF IT WERE IN AN UNCONDITIONED SPACE.
O. VENT TERMINALS SHALL NOT BE LOCATED WITHIN 10' OF ANY AIR INTAKE OPENING.
P. INSTALLATION OF CPVC WATER PIPE SHALL BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. INSTALLER SHALL HAVE ATTENDED MANUFACTURER'S TRAINING AND BE MANUFACTURER CERTIFIED. ALL PIPE EXPANSION PROVISIONS SHALL BE ADDED TO WATER PIPING LAYOUT AS RECOMMENDED BY MANUFACTURER. (FLOWGUARD AND CORZAN CONTACT: JOSHUA STOKES, PHONE 704.460.1694.)
V. ALL PIPING SHALL BE LABELED WITH PLASTIC LABELS INDICATING PIPE TYPE (I.E. GAS, COLD WATER, HOT WATER, ETC.) AND DIRECTION OF FLOW. PLACE LABELS ON 25' CENTERS.

1505 ELECTRICAL CONNECTIONS
A. ELECTRICAL CONTRACTOR SHALL DIRECT WIRE ALL EQUIPMENT REQUIRING POWER.
B. CONTROL WIRING SHALL BE INSTALLED BY THE PLUMBER.

1506 TESTS
A. THE HOT AND COLD WATER PIPING SHALL HOLD A HYDROSTATIC TEST PRESSURE OF 100 PSI FOR A PERIOD OF AT LEAST 1-1/2 HOURS. ANY JOINT TO LEAK UNDER TEST SHALL BE BROKEN, REMADE AND RETESTED. ANY EXISTING WATER LINES WHICH ARE TIED TO BY NEW LINES SHALL MEET THE FOLLOWING:
1. VERIFY EXISTING LINES TIE PROPERLY TO EXISTING WATER SYSTEM
2. VERIFY EXISTING WATER LINES ARE IN GOOD CONDITION AND FREE FROM LEAKS.
3. ANY REUSED EXISTING PIPE SHALL BE REPLACED AS NEEDED TO PROVIDE A PROPERLY OPERATING WATER SYSTEM.

B. ALL WASTE PIPING SHALL BE TESTED BY FILLING THE LINES TO OVERFLOWING. ANY JOINT FOUND TO LEAK UNDER TEST SHALL BE BROKEN, REMADE AND RETESTED. ALSO FOR EXISTING WASTE LINES WHICH ARE TIED TO BY NEW LINES THE FOLLOWING SHALL BE VERIFIED:
1. VERIFY EXISTING LINES TIE PROPERLY TO EXISTING WASTE SYSTEM
2. VERIFY EXISTING WASTE LINES ARE IN GOOD CONDITION AND FREE FROM LEAKS.
3. ANY REUSED EXISTING PIPE SHALL BE REPLACED AS NEEDED TO PROVIDE A PROPERLY OPERATING WASTE SYSTEM.

1507 CHLORINATION
WATER PIPE SHALL BE CHLORINATED TO 50 PPM RESIDUAL CHLORINE AFTER TWENTY-FOUR HOURS AND TO THE SATISFACTION OF THE LOCAL HEALTH DEPARTMENT OR BUILDING INSPECTION DEPARTMENT.

1508 SUBSTITUTION
ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED AND SHALL BE OF THE VERY BEST QUALITY AS SPECIFIED.

REQUESTS TO SUBSTITUTE OTHER MATERIALS OR PRODUCTS FOR THOSE SPECIFIED SHALL BE SENT IN WRITING TO THE OWNER. REQUESTS SHALL BE ACCOMPANIED BY ENGINEERING DATA, SPECIFICATION SHEETS, ETC., AS NECESSARY TO FULLY IDENTIFY AND APPRAISE THE PRODUCTS.

APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF NONCOMPLIANCE WITH THE SPECIFICATIONS EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE ENGINEER IS CALLED TO THE NONCONFORMING FEATURES BY LETTER ACCOMPANYING THE SUBMITTAL DATA.

1509 PLACING IN SERVICE
UPON COMPLETION OF THE ENTIRE SYSTEM, THE PLUMBING CONTRACTOR SHALL FLUSH ALL LINES TO INSURE PROPER FLOWS. ALL FIXTURES SHALL BE LEFT CLEAN.

THE PLUMBING CONTRACTOR SHALL DEMONSTRATE THE PROPER FUNCTION OF THE ENTIRE SYSTEM. THE PLUMBING CONTRACTOR SHALL ACQUAINT THE OWNER'S REPRESENTATIVE WITH THE PROPER OPERATION OF THE PLUMBING SYSTEM.

1510 VISIT TO THE SITE
ALL BIDDERS ON THIS WORK SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

1511 SHOP DRAWINGS
AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER THE CONTRACT IS SIGNED, THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF THE SHOP DRAWINGS COVERING FIXTURES, AND ANY SPECIAL EQUIPMENT WHICH HE INTENDS TO USE. FOUR (4) COPIES OF THIS DATA WILL BE RETURNED BY THE ENGINEER WHO WILL INDICATE APPROVAL OR OTHERWISE.

1512 FIRE RATED WALLS, FLOORS & CEILINGS
CONTRACTOR SHALL DETERMINE LOCATION OF ALL FIRE AND SMOKE RATED WALLS, FLOORS AND CEILINGS FROM ARCHITECTURAL DRAWINGS. PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE AS REQUIRED BY N.C. BUILDING CODE, WITH APPROVED AND APPROPRIATELY RATED UL FIRESTOP SYSTEMS AT ALL PENETRATIONS. ALL FIRESTOP SYSTEMS SHALL BE APPROVED FOR THEIR APPLICATION BY LOCAL INSPECTION AUTHORITIES PRIOR TO FIELD INSTALLATION.

1513 DEMOLITION
THE CONTRACTOR SHALL PROVIDE ALL REQUIRED PLUMBING DEMOLITION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTING FOR ASBESTOS, LEAD BASED PAINT OR OTHER HAZARDOUS MATERIALS IN ITEMS TO BE DEMOLISHED. IF SUCH MATERIALS ARE FOUND, CONTRACTOR SHALL HAVE HAZARDOUS MATERIALS ABATED AS PER LOCAL, STATE AND FEDERAL REGULATIONS BY A CONTRACTOR CERTIFIED AND LICENSED FOR THIS WORK. ALL DEMOLITION AND DISPOSAL SHALL BE AS PER ALL PERTINENT LOCAL, STATE AND FEDERAL REGULATIONS. CONTRACTOR SHALL PRESENT OWNER WITH WORK PLAN AND DISPOSAL PLAN FOR ALL HAZARDOUS MATERIALS AND SUBSTANCES.
THE CONTRACTOR SHALL DELIVER TO THE OWNER ALL ITEMS THE OWNER WISHES TO RETAIN. ALL OTHER EQUIPMENT AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE.

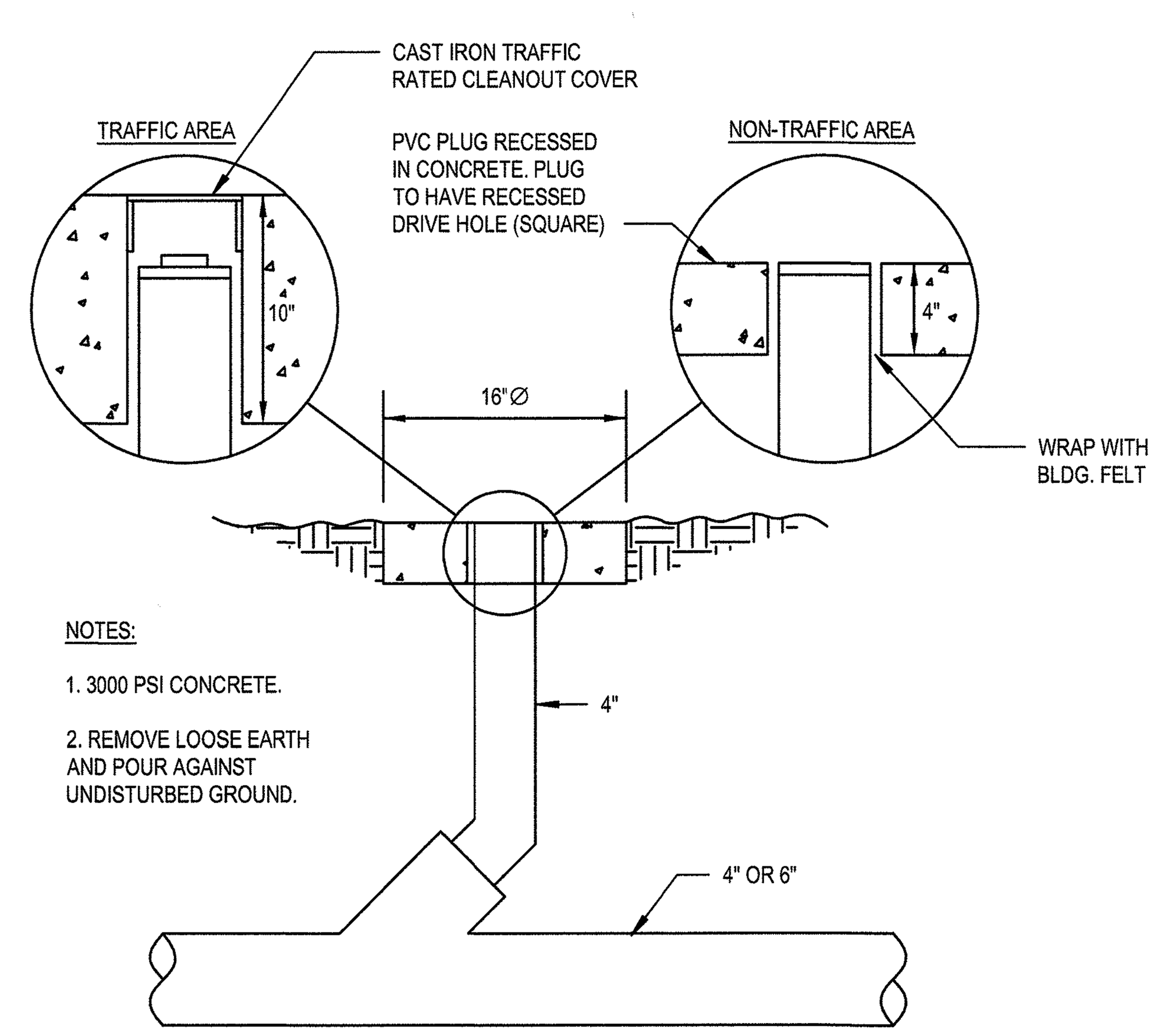
PLUMBING FIXTURE SCHEDULE -

SYM.	FIXTURE	CW	HW	DRAIN	STOPS & VALVES	MANUF.	MODEL	REMARKS
WC1	WATER CLOSET TANK - FLOOR MOUNT HANDICAP	1/2"	-	3"	1/2"x3/8" ANGLE	AMERICAN STANDARD	215AA.004	INCLUDE BRASSCRAFT R19C SUPPLY VALVE W/CHROME PLATED RISER AND WALL FLANGE. CHURCH #295CT OPEN FRONT SEAT W/O COVER. SEE NOTES 1,2
LV1	LAVATORY COUNTER HANDICAP	1/2"	1/2"	1-1/4"	1/2"x3/8" ANGLE	AMERICAN STANDARD	0476.028	INCLUDE BRASSCRAFT R19C SUPPLY VALVES W/CHROME PLATED RISERS AND WALL FLANGES. 5502.170 CHROME PLATED FAUCET WITH GRID DRAIN. 4" WRIST OPERATORS 1-1/4X1-1/4 TUBULAR P-TRAP CP. CONCEALED ARM SUPPORTS. INSTALL A PROPERLY SIZED TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 .SEE NOTES 1,3
SK1	SINK - SINGLE COMPARTMENT	1/2"	1/2"	1-1/2"	1/2"x3/8" ANGLE	ELKAY	CR-2522	INCLUDE AMERICAN STANDARD #7230.000 GOOSENECK FAUCET P-TRAP W/CLEANOUT. STRAINER-EASTMAN SWC60 SUPPLY VALVES. WRIST BLADE HANDLES
SK2	TWO COMPARTMENT SINK - HANDICAP	1/2"	1/2"	1-1/2"	1/2x3/8 ANGLE	ELKAY	GECR3321	INCLUDE AMERICAN STANDARD #7230.000 GOOSENECK FAUCET P-TRAPW/CLEANOUT. STRAINER, BRASSCRAFT R19C SUPPLY VALVES. WRIST BLADE HANDLES. SEE NOTE 1.
SO1	SHOWER OPERATOR HANDICAP	1/2"	1/2"	-	INTEGRAL	DELTA	T13H323-20	INCLUDE R10700-UNWS PRESSURE BALANCED ROUGH-IN VALVE WITH T13H132 TRIM, HAND HELD SHOWER HEAD W/70" HOSE, SLIDE BAR, SEE NOTES 1,4
CS1	CLINICAL SINK W/BEDPAN CLEANER & SERVICE FAUCET	1" 1/2" 1/2"	1/2" 1/2"	4"	-	AMERICAN STANDARD	9504.010	SLOAN ROYAL 1171-10 FLUSH VALVE, RIM GUARD 7832.017, INCLUDE BEDPAN CLEANER 7880.024 W/VACUUM BREAKER 7837.024, NOZZLE AND HOOK 7866.015 PEDAL VALVE 7679.012, LOOSE KEY SUPPLY 7544.018, SERVICE SINK FAUCET 8345.119 W/6"ELBOW HANDLES. PROVIDE TERRAZZO BASE.
SA1	SHOCK ARRESTOR	-	-	-	-	ZURN	Z-1700-#	USE SIZE BASED ON WFU INDICATED ON DRAWING WFU= (1-11=#100)(12-32=#200)(33-60=#300)(61-113=#400)(114-154=#500)(155-330=#600)
TT1	THERAPUTIC TUB	3/4"	3/4"	3"	-	-	-	FURNISHED BY OWNER INSTALLED BY PLUMBER SEE NOTE 7
WB1	WALL BOX FOR REFRIGERATOR	3/8"	-	-	-	-	-	INCLUDE SHUTOFF VALVE AND RECESSED WALL BOX
HB1	HOSE BIBB EXTERIOR	3/4"	-	-	-	WOODFORD	25	PROVIDE VACUUM BREAKER FREEZEPROOF
FD1	FLOOR DRAIN - PRIMED	-	-	3"	-	ZURN	ZN-415-5B-P	NIKOLAY TOP, DEEP SEAL TRAP, PROVIDE PRIMER TAP. VERIFY EXACT LOCATION AND FLOOR SLOPE BEFORE INSTALLATION BEGINS. SEE NOTE 4
FD2	FLOOR DRAIN (SHOWER)	-	-	3"	-	ZURN	ZN-1900-2-23-K	HALF TOP GRATE, 12"X12" TOP, SEDIMENT BUCKET.
FCO	FINISHED FLOOR CLEANOUT	-	-	-	-	ZURN	ZN-1400-T	WITH NIKOLAY TOP
YCO	EXTERIOR CLEANOUT	-	-	-	-	ZURN	Z-1400	WITH CAST IRON TOP. SEE ?/P1
WCO	WALL CLEANOUT COVERPLATE	-	-	-	-	ZURN	Z-1469	STAINLESS STEEL

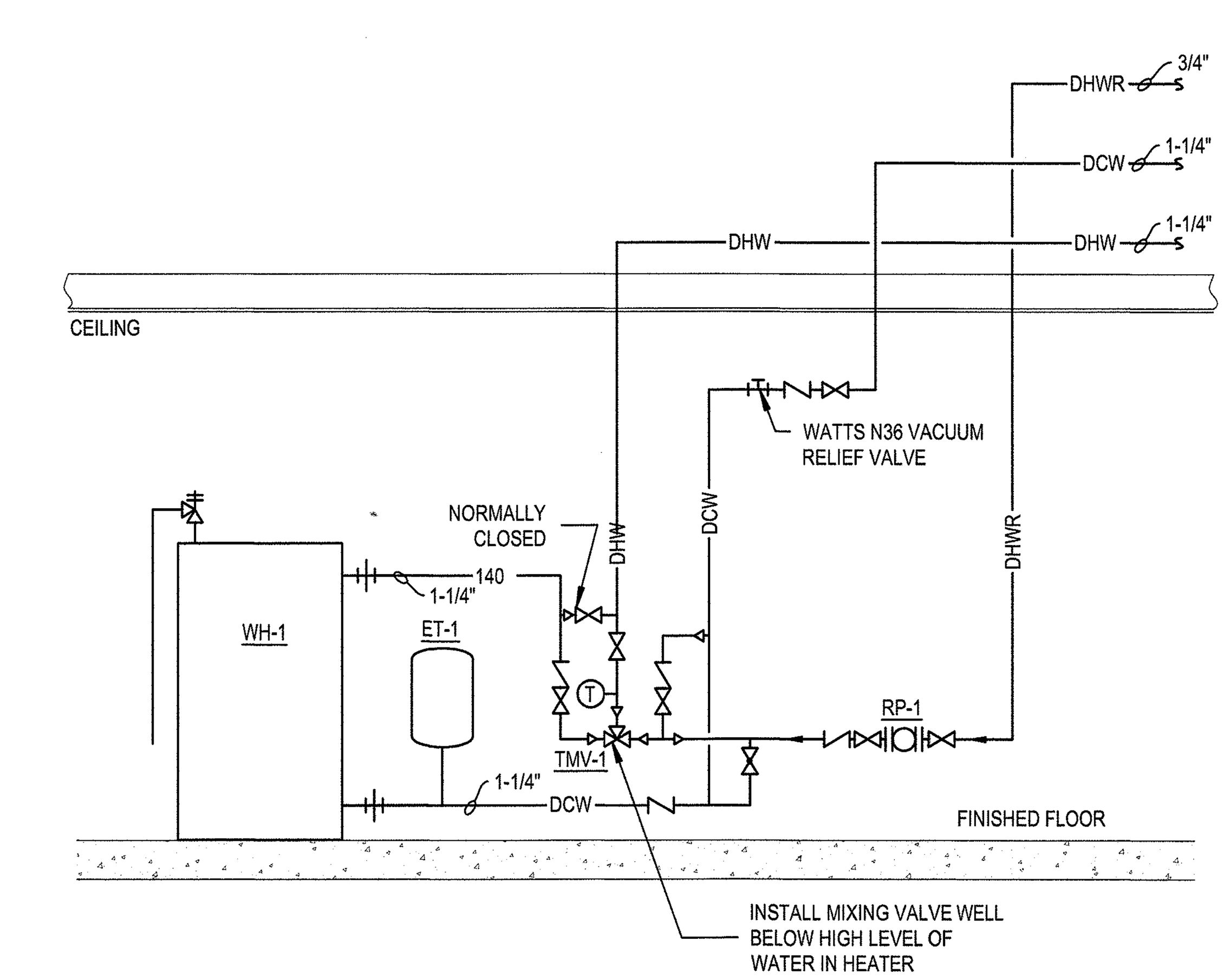
NOTES:
1. MATERIAL AND INSTALLATION SHALL BE PER STATE HANDICAP CODE REQUIREMENTS AND ADA REQUIREMENTS.
2. TOILETS SHALL FLUSH ON A MAXIMUM OF 1.6 GALLONS PER FLUSH. THE USE OF OFFSET WATER CLOSET FLANGES IS PROHIBITED. MISALIGNED WATER CLOSET FLANGES MUST BE RE PIPED.
3. LAVATORIES SHALL HAVE .5 GPM FLOW AERATORS.
4. SHOWER HEAD SHALL HAVE FLOW RESTRICTOR TO PASS A MAXIMUM OF 2.5 GPM.
5. FLOOR DRAIN SHALL BE PRIMED WITH 1/2" COPPER LINE FROM NEARBY CLEAR WATER FIXTURE (LAVATORY). TAP CLEAR WATER FIXTURE TAIL PIECE WITH WATER SAVER TRAP PRIMER AND ROUTE COPPER SUPPLY LINE UNDER SLAB TO DRAIN PRIMER CONNECTION. WATER SAVER TRAP PRIMER SHALL BE ACCESSIBLE AND CODE APPROVED. IF A CLEAR WATER FIXTURE SUCH AS A LAVATORY IS NOT AVAILABLE TAP NEARBY COLD WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE.
6. SHOWER VALVES MUST CONFORM TO THE REQUIREMENTS OF ASSE 1016 OR CSA B125.
7. WATER CLOSET SPECIFIED IS LEFT SIDE FLUSH. PLUMBER SHALL INSTALL COMPARABLE MODEL WITH RIGHT SIDE FLUSH AS REQUIRED SO FLUSH HANDLE IS LOCATED ON OPEN SIDE OF WATER CLOSET IN CONFORMANCE WITH HANDICAP REQUIREMENTS.

PLUMBING EQUIPMENT SCHEDULE -

SYM.	FIXTURE	CW	HW	DRAIN	STOPS & VALVES	MANUF.	MODEL	REMARKS
WH-1	WATER HEATER 52 GALLON ELECTRIC	1-1/4"	1-1/4"	-	GATE	STATE	CSB-82-12	208 VOLT, 12 KW.
ET-1	DIAPHRAGM TANK	3/4"	-	-	-	STATE	ETC-5X	PROVIDE PRESSURE CHARGE AS PER MANUFACTURERS INSTRUCTIONS
RP-1	HOT WATER CIRCULATION PUMP	3/4"	-	-	-	TACO	005B	110 VOLT , 1/35 HP , 2 GPM @ 9' TDH. INCLUDE TIMER TO TURNOFF PUMP AT NIGHT.
TMV-1	THERMOSTATIC MIXING VALVE	3/4"	3/4"	-	-	LEONARD	XL-32A-LF-BDT	-



B / P3 **Exterior Cleanout Detail**
SCALE: NO SCALE



A / P3 **Piping at Water Heater**
SCALE: NO SCALE

symbol	date	description	by
		REVISIONS	

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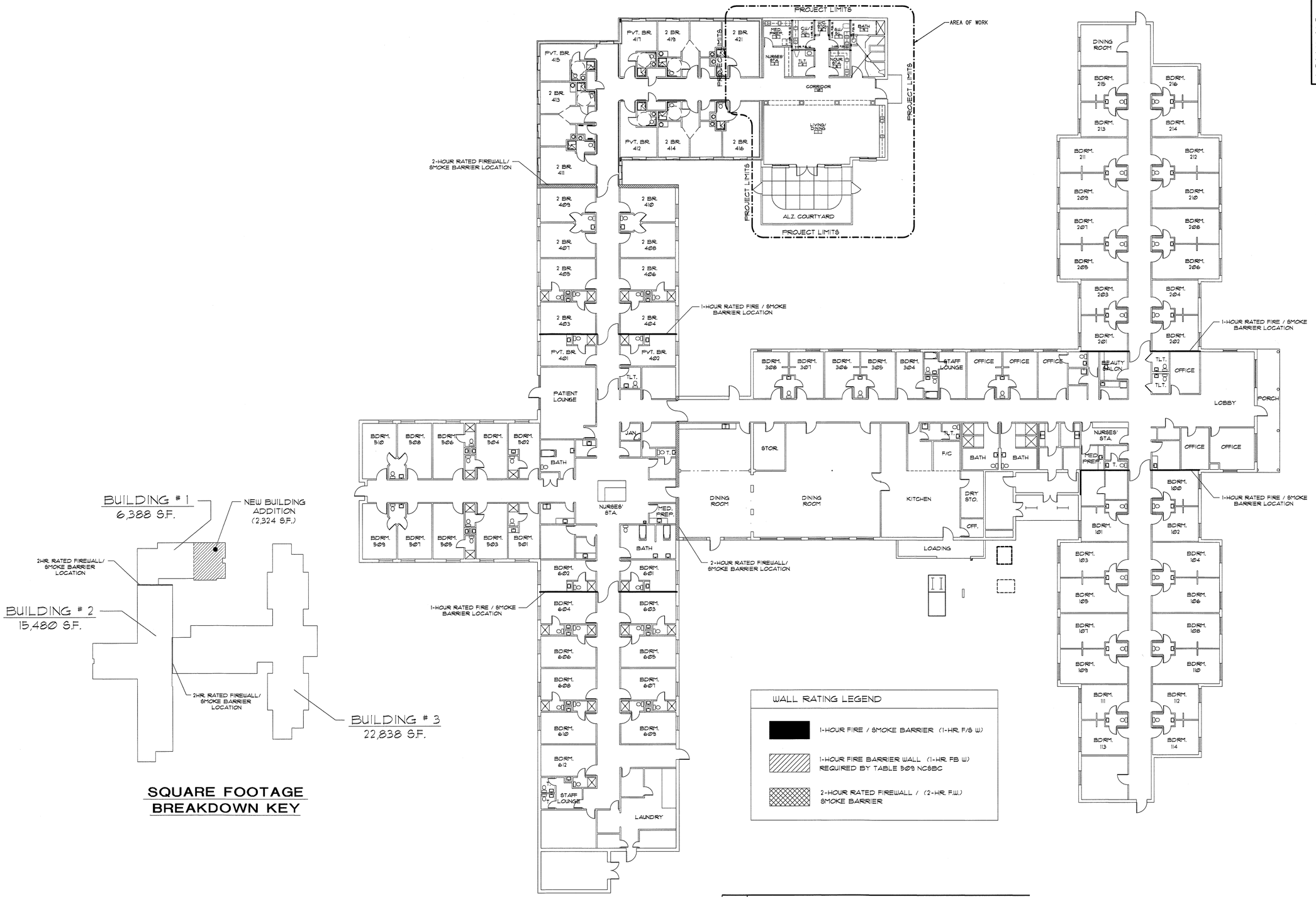
Architecture Planning Design

BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

P3

DSA #26930



A M1 Composite Floor Plan w/Alzheimer Addition

SCALE: 1/16" = 1'-0"

symbol	date	description	by
REVISIONS			

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BUILDING RENOVATIONS (33 BED ALZ. UNIT)

M 1

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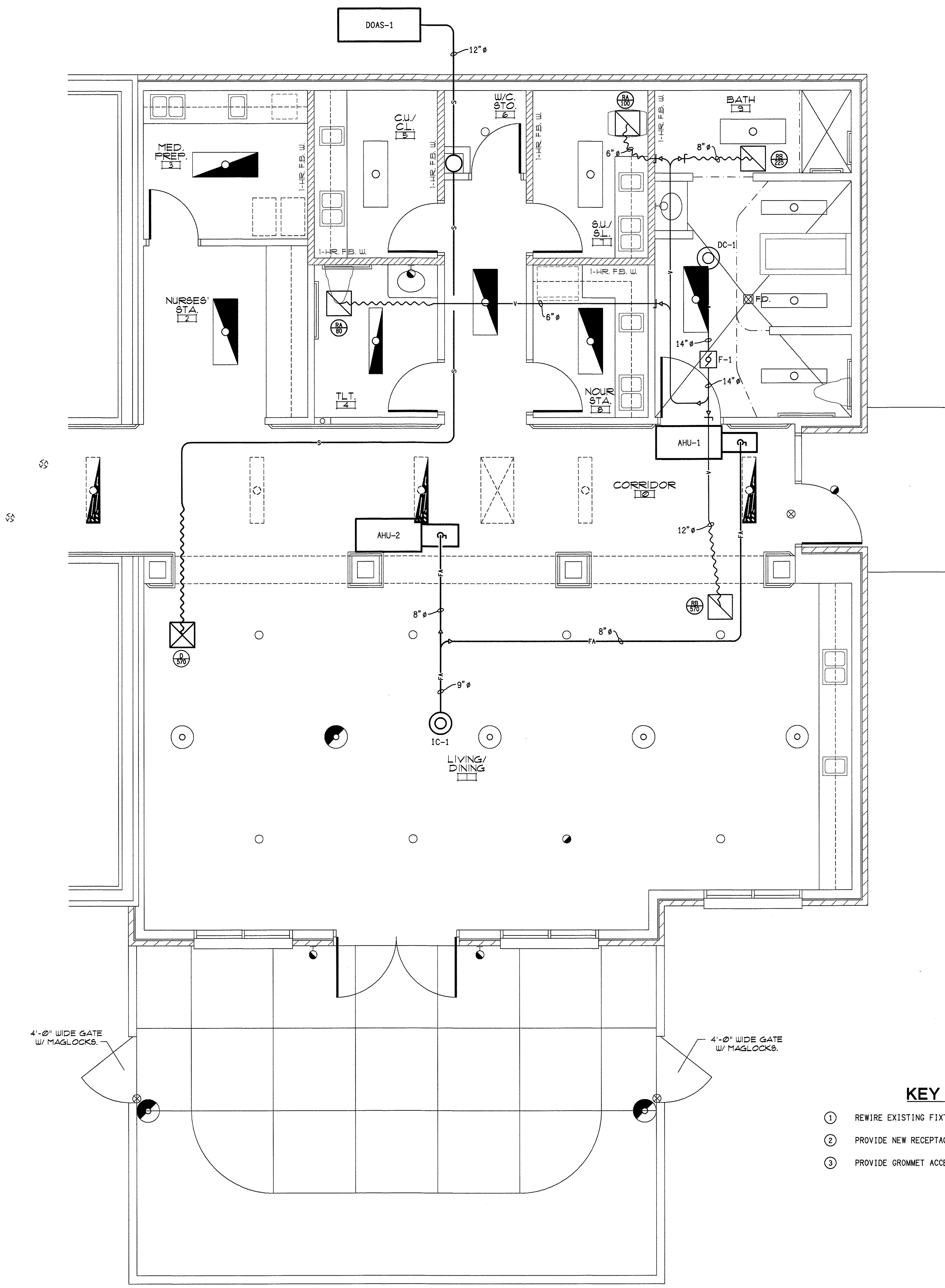
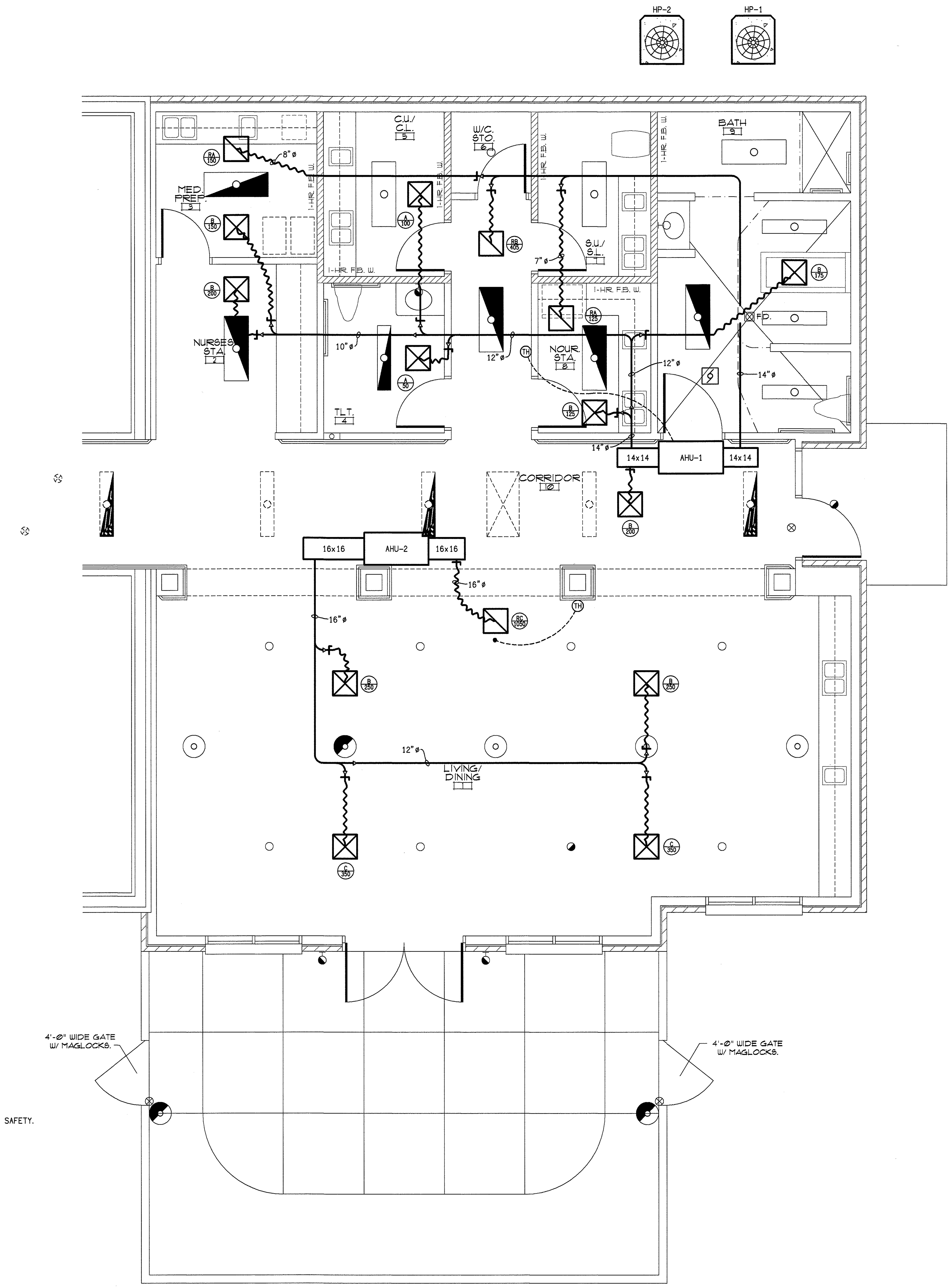


KEY NOTES

1. REWIRE EXISTING FIXTURES TO BE ON LIFE SAFETY.
2. PROVIDE NEW RECEPTACLE.
3. PROVIDE GROMMET ACCESS.

B / M2 — New Alzheimer Staff Support and Common Area Addition Ventilation Plan
SCALE: 1/4" = 1'-0"



A / M2 — New Alzheimer Staff Support and Common Area Addition Mechanical Plan
SCALE: 1/4" = 1'-0"

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BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

symbol	date	description	by
REVISIONS			

M2

DSA #26930

FRESH AIR MAKE UP UNIT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	ELECTRIC				S.P.	SUPPLY	RETURN	WINTER OUTSIDE AIR		WINTER COND AIR		SUMMER OUTSIDE AIR		SUMMER COND AIR		LA SUMMER		LA WINTER		COMP	TOTAL COOLING CAP	TOTAL HEATING CAP	SHIPPING WEIGHT	REMARKS
				VOLT	PHASE	MCA	BREAKER				TEMP	RH	TEMP	RH	TEMP	WB	TEMP	WB	TEMP	WB	TEMP	WB					
DOAS-1	SINGLE PASS	VALENT	VX-12-4B1-F2	208	3	75.1	80	1.5"	575 CFM	NO RETURN	10° F		10° F											73 MBH	30.9 MBH		

NOTES:
1. PROVIDE CONCRETE SLAB.
2. PROVIDE MERV-13 FILTERS.

SPLIT SYSTEM HEAT PUMP SCHEDULE

SYMBOL	COOLING CAPACITY (TONS)	COMPRESSOR ELECTRIC VOLT	PHASE	MCA	MOCP	MFG.	MODEL	AIR HANDLING UNIT SYMBOL	TYPE	HEATER CAPACITY (KW)	ELECTRIC VOLT	PHASE	MCA	MOCP	MFG.	MODEL	FAN CFM	FRESH AIR INTAKE (CFM)	ESP (IN OF H20) VERT/H. R.	GENERAL HUMIDITY CONTORL	REMARKS
HP-1	2 TONS	208	1ø	13	20	TRANE	5TWR4024A100DA	AHU-1	HORIZ.	3. 6	208	1ø	25	30	TRANE	5TEM4B02AC21SA	800	120	0. 7	YES	-
HP-2	3 TONS	208	1ø	19	30	TRANE	5TWR4036A100DA	AHU-2	HORIZ.	5. 7	208	1ø	45	45	TRANE		1, 200	150	0. 7	YES	-

NOTES A/C UNITS:
1. PROVIDE GALVANIZED DRIP PANS AT EACH UNIT WITH PAN DRAINS TO OUTSIDE BUILDING.
2. INCLUDE AUTOMATIC CROSSOVER THERMOSTAT SET AT 5' -0" AFF. PROVIDE PROGRAMMABLE THERMOSTATS WITH SETBACK TO 55° (HEAT AND 85° (COOL). 7 DAY CLOCK, 2 HOUR OCCUPANT OVERRIDE, 10 HOUR BACKUP. PROVIDE 5° DEAD BAND FOR AUTO CHANGEOVER. PROVIDE A COMBINATION THERMOSTAT/HUMIDISTAT.
3. PROVIDE CONCRETE PAD FOR COMPRESSORS. SECURE THE COMPRESSOR TO THE CONCRETE PAD.
4. ALL INTAKE DUCTS SHALL HAVE ALUMINUM WEATHER CAPS, TO PREVENT THE INTAKE OF RAIN. INTAKE DEVICE SHALL BE APPROVED BY THE ENGINEER. PAINT INTAKE THE SAME COLOR AS THE ROOF.
5. CONTRACTOR SHALL BALANCE SYSTEM. CONTRACTOR SHALL PRESENT BALANCING REPORT TO ARCHITECT AT FINAL INSPECTION.
6. CONTRACTOR SHALL CONSTRUCT FILTER HOUSING AND PROVIDE FILTERS AT EACH AHU. FILTER SHALL BE SIZED PER MFG. RECOMMENDATIONS. FILTERS SHALL BE MERV-13.
7. PROVIDE FRENCH DRAINS PER N.C. STATE CODE FOR CONDENSATE DISCHARGE OR DROP CONDENSATE ON ROOF IF ACCEPTABLE TO LOCAL AUTHORITIES. AVOID NUISANCE PUDDLING.
8. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AROUND ALL INDOOR AND OUTDOOR UNITS.
9. CONSULT WITH COMPRESSOR MANUFACTURER FOR THE CORRECT SIZING OF REFRIGERANT LINES.
10. PROVIDE LOW AMBIENT CONTROLS FOR FREEZE PROTECTION.
11. PROVIDE CONTROLS THAT PREVENT AUXILIARY HEAT STRIPS FROM BEING ACTIVATED WHEN THE HEAT PUMP CAN HANDLE THE HEATING LOAD EXCEPT DURING DEFROST CYCLE AND DEHUMIDIFICATION CYCLE.
12. PROVIDE HUMIDISTAT. HUMIDISTAT SHALL ACTIVATE THE COOLING CYCLE UPON HIGH HUMIDITY CALL. THE THERMOSTAT SHALL BE CAPABLE OF OPERATING THE HEAT STRIPS FOR TEMPERATURE CONTROL WHILE A HIGH HUMIDITY CALL IS BEING MADE. CONSULT WITH EQUIPMENT MANUFACTURER FOR WIRING DIAGRAM.
13. PROVIDE GRAVITY BACKDRAFT DAMPER OR MOTORIZED DAMPER FOR OUTDOOR AIR.

REGISTER SCHEDULE

SYMBOL	DESCRIPTION	NECK	RUN OUT	BALANCING DAMPER AT REGISTER	RADIATION DAMPER AT REGISTER	MATERIAL	COLOR	MFG.	MODEL	REMARKS
A	SURFACE SUPPLY	6"x6"	6"ø	YES	YES	STEEL	WHITE	PRICE	SMD	
B	SURFACE SUPPLY	9"x9"	8"ø	YES	YES	STEEL	WHITE	PRICE	SMD	
C	SURFACE SUPPLY	12"X12"	10"ø	YES	YES	STEEL	WHITE	PRICE	SMD	
RA	SURFACE RETURN	8"x8"	SEE DWG	YES	YES	STEEL	WHITE	PRICE	530	
RB	SURFACE RETURN	14"X14"	SEE DWG	YES	YES	STEEL	WHITE	PRICE	530	
RC	SURFACE RETURN	30"X18"	SEE DWG	YES	YES	STEEL	WHITE	PRICE	530	

FAN SCHEDULE

SYMBOL	DESCRIPTION	CFM	SP	SET CFM	VOLT	PHASE	HP	AMPS	MOUNTING	MFG.	MODEL	REMARKS
F-1	INLINE FAN	1, 483	1/4"	840	120	1	-	-	INLINE	GREENHECK	CSP-A1410	-

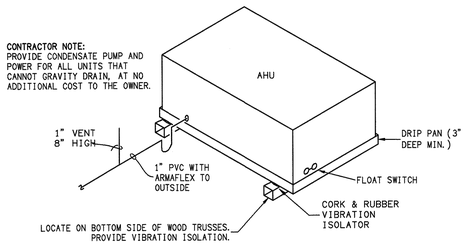
ROOF MOUNTED GRAVITY VENTILATOR - INTAKE

SYMBOL	TYPE	CFM	MFG.	SIZE	MODEL	MATERIAL	REMARKS
IC-1	INTAKE	270	GREENHECK	10"ø	GRS-12	ALUMINUM	-
DC-1	DISCHARGE	840	GREENHECK	18"ø	GRS-18	ALUMINUM	-

GRAVITY VENTILATOR NOTES:
1. PROVIDE ROOF CURB.

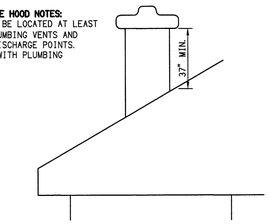
VENTILATION SCHEDULE

FUNCTION OF SPACE	PRESSURE RELATIONSHIP TO ADJACENT AREA	MINIMUM OUTDOOR ACH	MINIMUM TOTAL ACH	ALL ROOM AIR EXHAUSTED DIRECTLY TO OUTDOORS	AIR RECIRCULATED BY MEANS OF ROOM UNITS	DESIGN RELATIVE HUMIDITY%	DESIGN TEMPERATURE °F/°C
BATHING ROOM	NEGATIVE	NR	10	YES	NO	NR	70-75/21-24
OCCUPATIONAL THERAPY	NR	2	6	NR	NR	NR	70-75/21-24
PHYSICAL THERAPY	NEGATIVE	2	6	NR	NR	NR	70-75/21-24
RESIDENT/GATHERING /ACTIVITY/DINING	NR	4	4	NR	NR	NR	70-75/21-24
RESIDENT ROOM	NR	2	2	NR	NR	NR	70-75/21-24
RESIDENT UNIT COORIDOR	NR	NR	4	NR	NR	NR	NR



A/M3 HORIZONTAL AHU CONDENSATE PIPING
NOT TO SCALE (ATTIC UNITS)

FRESH AIR INTAKE HOOD NOTES:
1. HOODS SHALL BE LOCATED AT LEAST 26' FROM PLUMBING VENTS AND OTHER AIR DISCHARGE POINTS. COORDINATE WITH PLUMBING CONTRACTOR.



B/M3 FRESH AIR MAKEUP HOOD
SCALE: NONE

MECHANICAL LEGEND

- SUPPLY REGISTER - CEILING HVA/C SYSTEM
- RETURN REGISTER - CEILING HVA/C SYSTEM
- RETURN REGISTER - VENT SYSTEM
- TH — COMBINATION THERMOSTAT AND HUMIDISTAT
- TH — THERMOSTAT WITH REMOTE SENSOR
- 20x10 — RECTANGULAR DUCT - 20" WIDE INSIDE A/C SYSTEM - 10" HIGH INSIDE
- TURNING VANES
- RIGID ROUND DUCT - 10" I.D.
- FLEX DUCT - 10" I.D.
- 10Ø — REGISTER CFM
- BALANCING DAMPER
- REDUCER
- INLINE VENT FAN
- DISCHARGE CAP. SET BELOW ROOF RIDGE (SEE ARCH FOR LOCATION)
- INTAKE CAP. SET BELOW ROOF RIDGE (SEE ARCH FOR LOCATION)
- ALUMINUM WEATHER CAP WITH BACKDRAFT DAMPER
- —V— VENTILATION DUCT
- —FA— FRESH AIR DUCT
- —S— DOAS SUPPLY DUCT
- —R— DOAS RETURN DUCT

LIBERTY HEALTHCARE - ROXBORO
COMPLIANCE SCHEDULE - MECHANICAL

METHOD OF COMPLIANCE ENERGY COST BUDGET	PRESCRIPTIVE
THERMAL ZONE	4
EXTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	23°F
SUMMER DRY BULB	91°F
INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	70°F
SUMMER DRY BULB	75°F
RELATIVE HUMIDITY	50% - 60%
BUILDING HEATING LOAD	37, 500 BTUH
BUILDING COOLING LOAD	49, 780 BTUH
MECHANICAL SPACING CONDITIONING SYSTEM	
UNITARY: DESCRIPTION OF UNIT - HEATING EFFICIENCY - COOLING EFFICIENCY - HEAT OUTPUT OF UNIT - COOLING OUTPUT OF UNIT -	SEE EQUIPMENT SCHEDULE
BOILER TOTAL BOILER OUTPUT (IF OVERSIZED STATE REASON)	N/A
CHILLER TOTAL CHILLER CAPACITY	N/A
LIST EQUIPMENT EFFICIENCIES	SEE EQUIPMENT SCHEDULE
EQUIPMENT SCHEDULES WITH MOTORS	
(MECHANICAL SYSTEM) MOTOR HORSEPOWER	N/A
NUMBER OF PHASES	N/A
MINIMUM EFFICIENCY	N/A
MOTOR TYPE	N/A
# OF POLES	N/A

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 NORTH CAROLINA STATE BUILDING CODE.

SIGNED: _____
NAME: DAVID B. SIMS JR., PE
TITLE: ENGINEER

1700 MECHANICAL SPECIFICATIONS

1701 GENERAL
A. CODES, REGULATIONS AND STANDARD INSTALLATION ARE TO COMPLY WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE BUILDING CODE, NFPA 90A, AND ALL OTHER APPLICABLE LOCAL AND NATIONAL CODES. IN THE CASE OF CONFLICT BETWEEN VARIOUS CODES, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
B. FEES AND PERMITS: PROVIDE ALL LICENSES, FEES, PERMITS, INSURANCE, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.
C. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, PERFORM ALL WORK AND TEST AND PAY ALL FEES NECESSARY TO MAKE THE HEATING, AIR CONDITIONING AND VENTING SYSTEM OPERABLE AND READY FOR USE BY THE OWNER.
D. GUARANTEE: ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. ALL COMPRESSORS SHALL HAVE A FIVE (5) YEAR GUARANTEE STARTING AFTER FINAL ACCEPTANCE OF WORK.
E. IT IS UNDERSTOOD AND AGREED THAT THESE PLANS AND SPECIFICATIONS SHALL BE FULFILLED IN THEIR TRUE SPIRIT AND INTENT SO THAT ANY MINOR MATERIALS OR DEVICES ESSENTIAL TO PROPER AND CONVENIENT OPERATION, REQUIRED OR IMPLIED, SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR WITHOUT EXTRA CHARGE, EVEN THOUGH NOT SPECIFICALLY CALLED FOR.
F. THE ENGINEER IS NOT RESPONSIBLE FOR JOB SITE SAFETY.
G. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
H. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THIER OWN CLEAN UP AND REMOVAL OF SCRAP FROM THE JOB SITE. THE MECHANICAL CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA.
I. DIVISION 1 SHALL BECOME A PART OF THESE SPECIFICATIONS BY REFERENCE.
J. ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE REQUIREMENTS FOR SEISMIC DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE, CONTACT SEISWIC CONTROL AND ISOLATION, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED INSPECTORS AND AGENCIES HIRED BY THE OWNER OR OWNER'S AGENT.
K. ALL ROOF MOUNTED MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE REQUIREMENTS FOR HIGH WIND DESIGN AS REQUIRED BY THE LOCAL AUTHORITY. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER WITH EXPERTISE IN HIGH WIND RESTRAINT DESIGN. ALSO, THE CONTRACTOR SHALL SECURE ALL EQUIPMENT FOR SEISMIC CONTROL AS DIRECTED BY THE LOCAL AUTHORITY OR ZONING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. ALSO FOR WORK IN THE SEISMIC ZONE, ALL MECHANICAL, ELECTRICAL AND PLUMBING SHALL BE SECURED PER THE NORTH CAROLINA BUILDING CODE FOR SEISMIC CONSTRUCTION. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE, CONTACT SEISWIC CONTROL AND ISOLATION, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED INSPECTORS AND AGENCIES HIRED BY THE OWNER OR OWNER'S AGENT AS REQUIRED BY THE BUILDING CODE.
L. THE CONTRACT DRAWINGS ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW ALL FITTINGS, BOLTS, CONNECTIONS, OFFSETS, ETC., UNLESS SPECIFICALLY DIMENSIONED. THE MECHANICAL CONTRACTOR SHALL FOLLOW THE DRAWING AS CLOSELY AS POSSIBLE; HOWEVER, NECESSARY ADJUSTMENTS SHALL BE MADE AS REQUIRED TO CONFORM TO STRUCTURAL CONDITIONS, WORK OF OTHER CONTRACTORS AND THE INTENT OF THE DRAWINGS WITHOUT ADDITIONAL COST TO THE OWNER. THE DRAWINGS SHALL NOT BE SCALED. SECURE DIMENSIONS FROM ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL BUILDING COMPONENTS.
M. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO CONFIRM THAT ALL BREAKERS SERVING MECHANICAL EQUIPMENT ARE CORRECT.

1702 SCOPE
WORK SHALL INCLUDE BUT NOT BE LIMITED TO:
A. PROVIDE AND INSTALL SPLIT SYSTEM HEAT PUMP SYSTEMS, DUCT AND REGISTERS.
B. PROVIDE AND INSTALL VENT FAN AND DUCT.
C. PROVIDE AND INSTALL A DOAS SYSTEM WITH DUCT AND REGISTERS.
D. PROVIDE DEMOLITION OF THE EXISTING MECHANICAL SYSTEM.
E. PROVIDE ALL INCIDENTAL MATERIALS AND EQUIPMENT FOR A COMPLETE AND FUNCTIONING HVAC SYSTEM.

1703 MATERIALS
A. AIR CONDITIONING DUCT SHALL BE:
1. ALL HEATING AND COOLING MAIN SUPPLY AND RETURN DUCT SHALL BE GALVANIZED SHEET METAL WITH FIBERGLASS WRAP WITH FOIL BACKING, UL LABELED FOR CLASS I AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE GENERATION REQUIREMENTS. DUCT INSULATION SHALL COMPLY WITH ALL NORTH CAROLINA ENERGY CODE REQUIREMENTS AND HAVE A MINIMUM R-VALUE AS SHOWN BELOW:
EXTERIOR R=8. 0
INTERIOR R=6. 0
INSULATION SHALL MEET ALL CODE REQUIREMENTS.
2. FLEX RUNOUTS SHALL BE FLEX DUCT BY ATCO OR EQUAL AND SHALL BE UL LABELED FOR CLASS I AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE GENERATION REQUIREMENTS. MINIMUM R-VALUE SHALL BE R=6.
3. RIGID RUN OUTS SHALL BE GALVANIZED SHEET METAL WITH FIBERGLASS WRAP WITH FOIL BACKING WHICH MEET REQUIREMENTS OF ITEM 1.
4. PROVIDE SINGLE THICKNESS TURNING VANES IN MAIN SUPPLY AND RETURN DUCT AT TEES AND 90° ELLS.
5. FRESH AIR MAKE-UP SHALL BE CLASS 1 DUCT WITH INSULATION WHICH MEET REQUIREMENTS OF ITEM 1.
6. VENT DUCT:
6. 1 VENT DUCT SHALL BE 26 GA. MINIMUM GALVANIZED SHEET METAL.
6. 2 THE FIRST 3' -0" OF DUCT FROM THE EXTERIOR WALL SHALL BE INSULATED WITH INSULATION MEETING REQUIREMENTS OF ITEM 1 (MINIMUM R-VALUE SHALL BE 6. 0)
6. 3 VENTILATION DUCT FOR EXHAUST FAN MAY BE UNINSULATED EXCEPT AS REQUIRED BY ITEM 6. 2.
6. 4 THE VENTILATION DUCTS FOR ENERGY RECOVERY UNITS SHALL BE INSULATED AS FOLLOWS:
6. 4. 1 IN ATTICS OUTSIDE THE THERMAL ENVELOPE THE INCOMING EXHAUST AIR STREAM AND THE INCOMING DISCHARGE AIR STREAM ON THE FRESH AIR DUCTING SHALL BE INSULATED WITH THE INSULATION MEETING THE REQUIREMENTS OF ITEM 1.
6. 4. 2 IN ATTICS THAT ARE SEMI-CONDITIONED SPACES INSIDE THE THERMAL ENVELOPE ALL DUCTS (INCOMING AND DISCHARGE, VENT AND FRESH AIR) SHALL BE INSULATED WITH THE INSULATION MEETING THE REQUIREMENTS OF ITEM 1.
B. THERMOSTAT CABLE SHALL BE UL APPROVED FOR THE APPLICATION.
C. CONDENSATE PIPE SHALL BE 1" PVC WITH 1/2" ARMAFLEX TYPE INSULATION FOR INTERIOR RUNS.
D. ALL RUNOUT SUPPLY DUCTS SHALL HAVE BALANCING DAMPERS.
E. REFRIGERATION TUBING SHALL BE SIZED AND INSULATED AS PER MANUFACTURER'S RECOMMENDATIONS AND STATE BUILDING CODE REQUIREMENTS.
F. ALL SUPPLY AND RETURN GRILLES SHALL HAVE FULLY INSULATED BACK UNLESS NOTED OTHERWISE.
G. ALL INTAKE OPENINGS SHALL BE PROTECTED WITH A CORROSION RESISTANT SCREEN WITH OPENINGS GREATER THAN ¼" AND NOT GREATER THAN 1".
H. ALL EXHAUST OPENINGS (EXCEPT DRYER EXHAUST) SHALL BE PROTECTED WITH A CORROSION RESISTANT SCREEN WITH OPENINGS NOT LESS THAN ¼" AND NOT GREATER THAN ½".

1704 EXECUTION
A. ALL HOLES SHALL BE DRILLED OR CUT, DO NOT BREAK HOLES.
B. THE MECHANICAL CONTRACTOR SHALL DO ALL CUTTING, PATCHING, AND PAINTING NECESSARY TO INSTALL ALL EQUIPMENT AS REQUIRED UNDER THIS CONTRACT, AND SHALL ESTABLISH ALL FINISHES WHEN CUTTING AND PATCHING OCCUR TO THEIR ORIGINAL CONDITION. QUALIFIED WORKERS SHALL DO ALL CUTTING AND PATCHING WORK (I.E. DRY WALL CUTTING AND PATCHING SHALL BE DONE BY QUALIFIED DRY WALL CRAFTSMEN.)
C. CONTRACTOR SHALL BALANCE THE AIR CONDITIONING SYSTEM AS SHOWN ON THE PLANS WITHIN 10% OF THE NUMBER SHOWN. CONTRACTOR SHALL SUBMIT A BALANCING REPORT SHOWING THE ACTUAL CFM READINGS OF ALL SUPPLY REGISTERS TO THE ARCHITECT AT THE COMPLETION OF THE PROJECT.
D. UNLESS NOTED OTHERWISE THE DUCT DIMENSIONS SHOWN REFER TO THE DUCTS INSIDE FREE AIR SPACE DIMENSION. ROUND OR RECTANGULAR DUCT MAY BE USED IN PLACE OF THE TYPE OF DUCT SHOWN AS LONG AS THE FOLLOWING REQUIREMENTS ARE MET:
1. THE REPLACEMENT DUCT SIZE SHALL HAVE A STATIC PRESSURE DROP AND AVERAGE DUCT VELOCITY EQUAL TO OR LESS THAN THE DUCT SIZE SHOWN ON THE DRAWINGS.
2. THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE NEW DUCT DESIGN, INCLUDING BUT NOT LIMITED TO, FIT, CLEARANCES AND EFFECTS ON OTHER TRADES.
E. CONTRACTOR SHALL SUPPLY ALL HANGERS AND SUPPORTS NECESSARY TO SUSPEND DUCT WORK AND EQUIPMENT AS PER GOOD INSTALLATION PRACTICE.
F. ALL DUCT SHALL BE CONSTRUCTED, SUPPORTED AND REINFORCED PER SMACNA STANDARDS.
G. MECHANICAL CONTRACTOR SHALL PROVIDE ALL THERMOSTATS, CONTROL, RELAY, STARTERS ETC., FOR A COMPLETE CONTROL SYSTEM FOR THE HEAT PUMP UNITS.
H. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR PENETRATIONS AND PATCHING.
I. MECHANICAL CONTRACTOR SHALL PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE OF CONDENSATE IS NOT POSSIBLE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
J. INSTALLATION SHALL COMPLY WITH ALL NORTH CAROLINA STATE ENERGY CODE REQUIREMENTS.
K. ALL REFRIGERATION PIPING AND CONDENSATE PIPING SHALL BE PROPERLY SUPPORTED AS PER MANUFACTURERS RECOMMENDATIONS, NORTH CAROLINA BUILDING CODE, AND GOOD PIPING PRACTICES. PROPER DRAINAGE OF CONDENSATE LINES SHALL BE MAINTAINED.
L. ALL MATERIALS AND EQUIPMENT SHALL BE PROPERLY INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS AND GOOD PRACTICE.
M. THERE WILL BE MINIMUM 10' CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND BUILDING EXHAUSTS AND PLUMBING VENTS.
N. HORIZONTAL AIR HANDLER INSTALLATIONS SHALL INCLUDE VIBRATION ISOLATION SUPPORTS. VERTICAL FLOOR MOUNTED AIR HANDLERS SHALL BE SUPPORTED ON CORK PADS.
O. AIR INTAKE AND EXHAUST WEATHER CAPS, GRILLES, AND LOUVERS SHALL BE SIZED TO PRODUCE A STATIC PRESSURE DROP OF .05" OR LESS AT DESIGN AIR FLOW. WEATHER CAPS SHALL BE ALUMINUM BY GREENHECK OR EQUAL.
P. DUCT SYSTEMS SHALL BE SEALED STRICTLY AS PER NORTH CAROLINA ENERGY CODE.
Q. ALL DUCT WORK TRANSITIONS SHALL BE SUPPLIED AS REQUIRED FOR CONNECTION OF ALL DUCTED EQUIPMENT AND SYSTEM COMPONENTS.
R. ALL OUTSIDE AIR INTAKE DUCTS (ONE FOR EACH AIR HANDLER) SHALL HAVE BACKDRAFT DAMPERS BALANCED TO OPEN AND ALLOW IN OUTSIDE AIR AS INDICATED ON DRAWINGS. WHEN AIR HANDLER FAN IS RUNNING. THE USE OF ELECTRONICALLY DRIVEN DAMPERS TIED TO THE AIR HANDLER OPEN WHEN FAN IS ON, CLOSED WHEN FAN IS OFF, SHALL BE AN ACCEPTABLE ALTERNATE. ALL ELECTRICAL CONNECTIONS SHALL BE COORDINATED WITH ELECTRICIAN.
S. PROVIDE OPERATIONS AND MAINTENANCE MANUALS TO OWNER FOR ALL EQUIPMENT.

1705 ELECTRICAL CONNECTIONS
ELECTRICAL CIRCUIT SIZES AND NUMBER ARE BASED ON THE MANUFACTURER OF THE EQUIPMENT SPECIFIED, AND IT SHALL BE THE RESPONSIBILITY OF THE HEATING AND AIR CONDITIONING CONTRACTOR TO CHANGE ANY AND ALL ELECTRICAL WORK IN ORDER TO FIT EQUIPMENT OTHER THAN THAT SPECIFIED. THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE OWNER TO ASSURE THAT ALL UNITS ARE PROPERLY CONNECTED AND SHALL CHECK THE WIRING PRIOR TO STARTING UNITS. TERMINATION OF ELECTRICAL POWER WILL BE AS FOLLOWS:
1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONNECT ALL POWER TO THE MECHANICAL EQUIPMENT.
2. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE CONTROL AND THERMOSTAT SYSTEMS FOR THE HEATING, AIR CONDITIONING SYSTEMS.
3. MECHANICAL CONTRACTOR SHALL PROVIDE THE EMERGENCY SHUTDOWN CONTROLS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR ON DUCT DETECTOR INSTALLATION AND AIR HANDLING UNIT SHUTDOWN.
4. MECHANICAL CONTRACTOR SHALL PROVIDE ANY REQUIRED ELECTRICAL CONNECTIONS FOR CONDENSATE PUMPS WITHOUT ADDITIONAL COST TO THE OWNER.

1706 TESTS
A. ALL HEATING COOLING AND VENTILATION EQUIPMENT, UPON COMPLETION, SHALL BE TESTED FOR AT LEAST ONE (1) DAY AND SHALL BE SHOWN TO BE IN SATISFACTORY CONDITION ON BOTH HEATING AND COOLING.
B. CONTRACTOR SHALL SUPPLY ALL NECESSARY LABOR AND EQUIPMENT FOR THE TEST.

1707 SUBSTITUTION
ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED AND SHALL BE OF THE VERY BEST QUALITY AS SPECIFIED. REQUESTS TO SUBSTITUTE OTHER MATERIALS OR PRODUCTS FOR THOSE SPECIFIED SHALL BE SENT IN WRITING TO THE OWNER. REQUESTS SHALL BE ACCOMPANIED BY ENGINEERING DATA, SPECIFICATION SHEETS, ETC., AS NECESSARY TO FULLY IDENTIFY AND APPRAISE THE PRODUCTS. APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF NONCOMPLIANCE WITH THE SPECIFICATIONS EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE ENGINEER IS CALLED TO THE NONCONFORMING FEATURES BY LETTER ACCOMPANYING THE SUBMITTAL DATA.

1708 VISIT TO SITE
ALL BIDDERS ON THIS WORK SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

1709 SHOP DRAWINGS
AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF SHOP DRAWINGS OF HEAT PUMPS, REGISTERS, FANS, ANY SPECIAL EQUIPMENT WHICH HE INTENDS TO USE. FOUR (4) COPIES OF THIS DATA WILL BE RETURNED BY THE ENGINEER WHO WILL INDICATE APPROVAL OR OTHERWISE.

1710 FIRE RATED WALLS, FLOORS & CEILINGS
CONTRACTOR SHALL DETERMINE LOCATION OF ALL FIRE AND SMOKE RATED WALLS, FLOORS AND CEILINGS FROM ARCHITECTURAL DRAWINGS. PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE AS REQUIRED BY NORTH CAROLINA BUILDING CODE, WITH APPROVED AND APPROPRIATELY RATED UL FIRESTOP SYSTEMS AT ALL PENETRATIONS. ALL DUCT PENETRATIONS SHALL BE PROPERLY PROTECTED WITH RADIATION OR FIRE DAMPERS WITH ALL INSTALLATION STRICTLY AS PER MANUFACTURERS RECOMMENDATIONS.

1711 PLACING IN SERVICE
UPON COMPLETION OF THE ENTIRE SYSTEM, THE MECHANICAL CONTRACTOR SHALL INSTALL NEW AIR FILTERS AND LEAVE ENTIRE SYSTEM CLEAN AND READY FOR OPERATION. THE MECHANICAL CONTRACTOR SHALL DEMONSTRATE THE PROPER FUNCTION OF THE ENTIRE SYSTEM. THE MECHANICAL CONTRACTOR SHALL ACQUAINT THE OWNERS REPRESENTATIVE WITH THE PROPER OPERATION OF THE ENTIRE SYSTEM.

1712 DEMOLITION
THE CONTRACTOR SHALL PROVIDE ALL REQUIRED MECHANICAL DEMOLITION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTING FOR ASBESTOS, LEAD BASED PAINT OR OTHER HAZARDOUS MATERIALS IN ITEMS TO BE DEMOLISHED. IF SUCH MATERIALS ARE FOUND, CONTRACTOR SHALL HAVE HAZARDOUS MATERIALS ABATED AS PER LOCAL, STATE AND FEDERAL REGULATIONS BY A CONTRACTOR CERTIFIED AND LICENSED FOR THIS WORK. ALL DEMOLITION AND DISPOSAL SHALL BE AS PER ALL PERTINENT LOCAL, STATE AND FEDERAL REGULATIONS. CONTRACTOR SHALL PRESENT OWNER WITH WORK PLAN AND DISPOSAL PLAN FOR ALL HAZARDOUS MATERIALS AND SUBSTANCES. THE CONTRACTOR SHALL DELIVER TO THE OWNER ALL ITEMS THE OWNER WISHES TO RETAIN. ALL OTHER EQUIPMENT AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE.

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NORTH CAROLINA PROFESSIONAL SEAL 027138 ENGINEER DAVID B. SIMS JR. 6/18/26

LIBERTY HEALTHCARE
ROXBORO
Roxboro, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite C, Wilmington, NC 28403
Architecture Planning Design

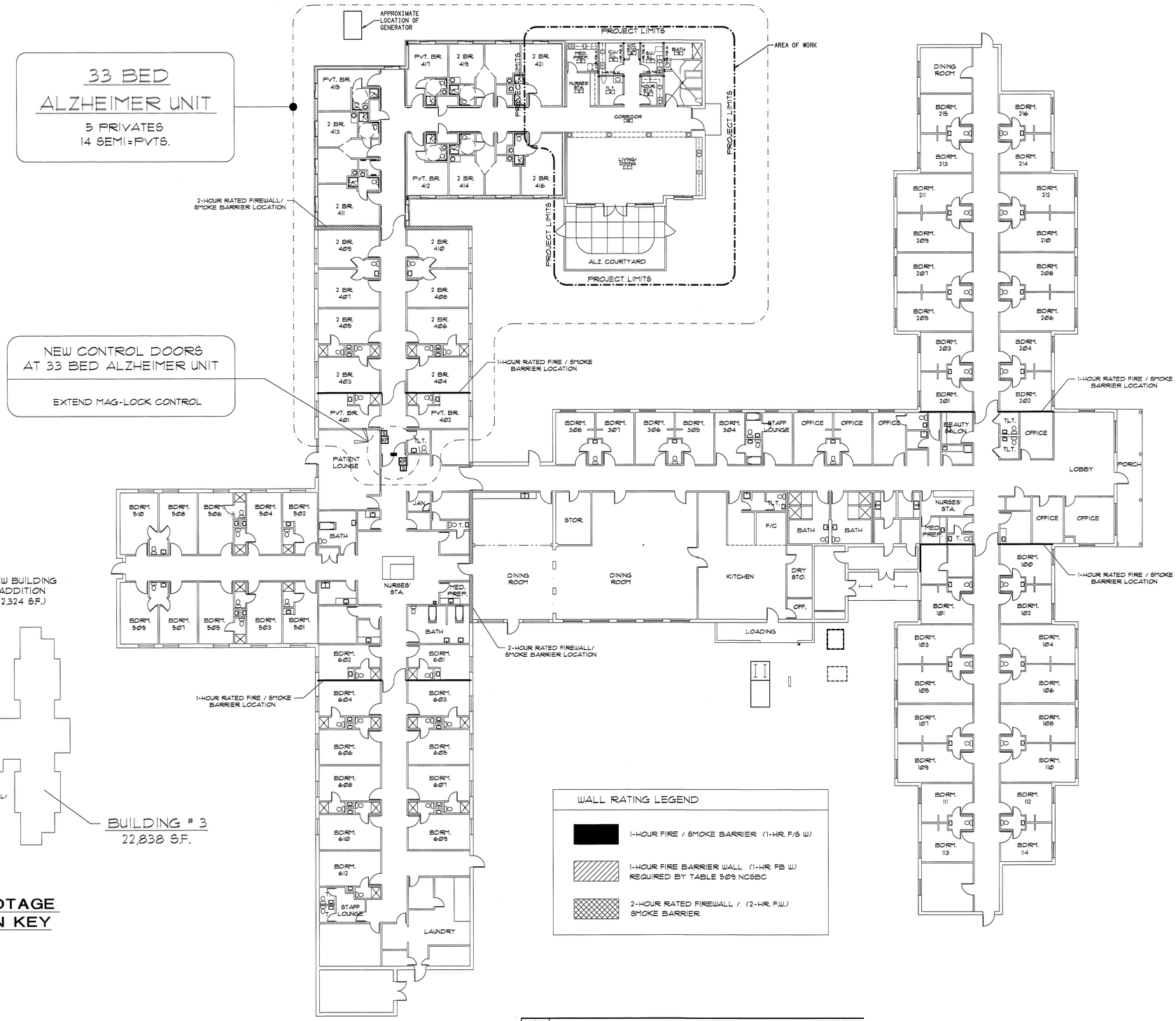
BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

M3

symbol	date	description	by
		REVISIONS	

DSA #26930

DRAWING LOCATION= F:\PROJECTS\2025\25930\Planset\DWGS\25930dA1.dwg
DATE= 06/18/2026
TIME= 7:49



A E1 Composite Floor Plan w/Alzheimer Addition
SCALE: 1/16" = 1'-0"

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6/19/26

LIBERTY HEALTHCARE
ROXBORO
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David R. Polston - Architect
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Architecture Planning Design

BUILDING RENOVATIONS
(33 BED ALZ. UNIT)

E 1

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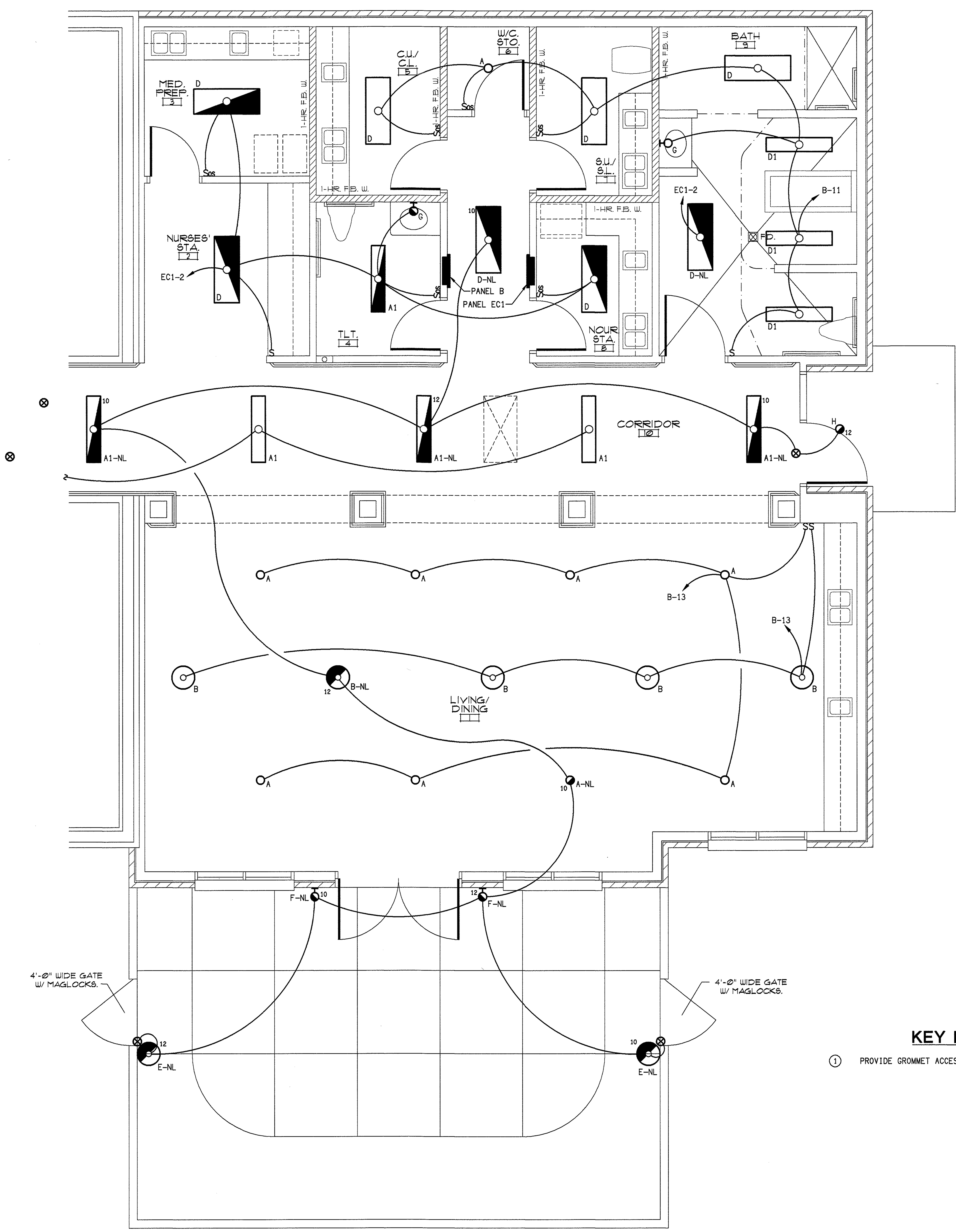
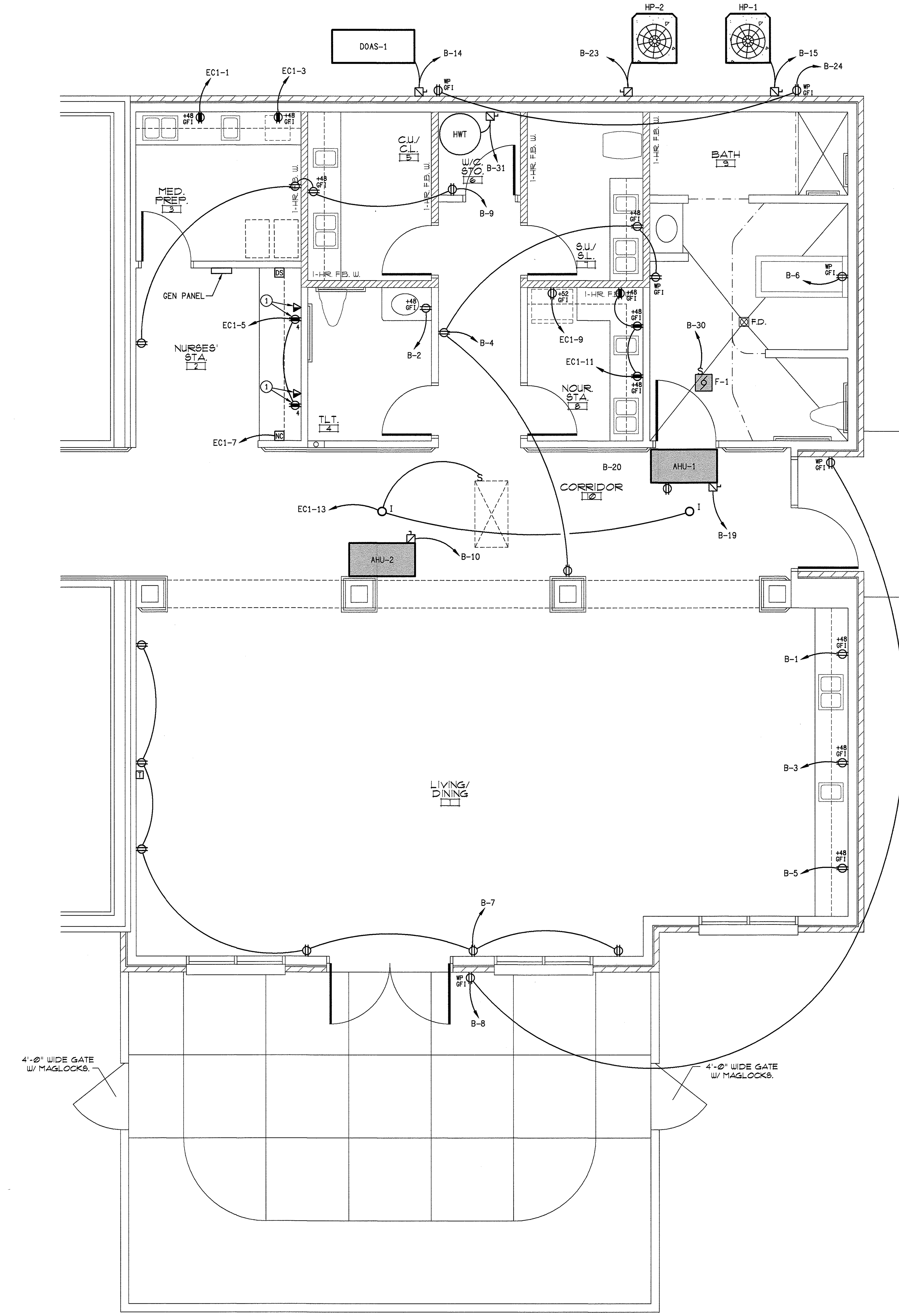


A	New Alzheimer Staff Support and Common Area Addition Lighting Plan
E2	SCALE: 1/4" = 1'-0"

KEY NOTES

(1) PROVIDE GROMMET ACCESS.



EQUIPMENT LOCATED IN ATTIC

B	New Alzheimer Staff Support and Common Area Addition Power Plan
E2	SCALE: 1/4" = 1'-0"

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LIBERTY HEALTHCARE

ELECTRICAL SPECIFICATIONS

1601 GENERAL
A. INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE BUILDING CODE, NATIONAL ELECTRIC CODE, LOCAL BUILDING CODES AND ORDINANCES AND OTHER NATIONAL CODES AND ORDINANCES. IN THE CASE OF CONFLICT BETWEEN THE CODE AND THE DRAWINGS AND SPECIFICATIONS OR BETWEEN THE VARIOUS CODES, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
B. PROVIDE AND PAY ALL LICENSES, FEES, PERMITS, POWER COMPANY CONNECTION CHARGES, IF ANY, INSURANCE, ETC., REQUIRED FOR EXECUTION OF THIS WORK.
C. ELECTRICAL CONTRACTOR SHALL PROVIDE THE MATERIALS, PERFORM THE WORK AND TEST AND PAY ALL FEES NECESSARY TO MAKE THE ELECTRICAL SYSTEM OPERABLE AND READY FOR USE BY THE OWNER.
D. GUARANTEE: EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER.
E. IT IS UNDERSTOOD AND AGREED THAT THESE PLANS AND SPECIFICATIONS SHALL BE FULFILLED IN THEIR TRUE SPIRIT AND INTENT SO THAT ANY MINOR MATERIALS OR DEVICES ESSENTIAL TO PROPER AND CONVENIENT OPERATION, REQUIRED OR IMPLIED, SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR WITHOUT EXTRA CHARGE, EVEN THOUGH NOT SPECIFICALLY CALLED OUT.
F. INSTALLATION SHALL COMPLY WITH OSHA STANDARDS.
G. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN CLEAN UP AND REMOVAL OF SCRAP FROM THE JOB SITE. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA. THE ENGINEER IS NOT RESPONSIBLE FOR JOB SITE SAFETY.
H. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
I. DIVISION I SHALL BECOME APART OF THESE SPECIFICATIONS BY REFERENCE.
J. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE REQUIREMENTS FOR SEISMIC DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE CONTACT SEISMIC CONTROL AND ISOLATIONS, INC. PHONE: 910 799-5204. ALL REQUIRED INSPECTIONS FOR THESE DESIGNS SHALL BE PERFORMED BY APPROVED INSPECTORS AND AGENCIES PROVIDED BY OWNER AND OWNER'S AGENT.
K. DO NOT SCALE OFF OF THE ELECTRICAL PLANS. SCALE OFF OF THE ARCHITECTURAL PLANS ONLY.

1602 SCOPE
WORK SHALL INCLUDE BUT IS NOT LIMITED TO:
A. PROVIDE RENOVATION OF THE SPECIFIED AREA OF THE BUILDING.
B. PROVIDE ALL ELECTRICAL DEMOLITION.
C. PROVIDE AND INSTALL FIXTURES AS SHOWN ON THE PLANS.
D. PROVIDE AND INSTALL WIRING DEVICES, PANELS, AND CONDUIT.
E. PROVIDE CONNECTIONS TO MECHANICAL AND PLUMBING EQUIPMENT.
F. PROVIDE A MAG-LOCK SECURITY SYSTEM TO BE CONNECTED TO THE MAIN SYSTEM.
G. PROVIDE FIRE ALARM DEVICES.
H. PROVIDE NURSE CALL DEVICES AND CONNECT TO THE EXISTING SYSTEM.
I. MODIFY GENERATOR WIRING AND RELOCATE GENERATOR PANEL TO THE NURSE'S STATION.

1603 MATERIALS
A. CONDUCTORS
1. ALL WIRE SHALL BE COPPER. WIRE #8 AND LARGER SHALL BE STRANDED.
2. USE WIRE WITH THHN/THWN INSULATION FOR ALL WIRE.
3. POWER CONDUCTORS SHALL BE #12 AWG MINIMUM. PILOT AND CONTROL CIRCUITS MAY BE #14 AWG.

B. CONDUIT
1. UNDERGROUND CONDUIT SHALL BE PVC. CHANGE TO RIGID GALVANIZED BELOW CONCRETE FLOOR AND STUB UP THROUGH FLOOR WITH RIGID GALVANIZED.
2. HOSPITAL GRADE METAL CLAD CABLE SHALL BE ALLOWED IN CONCEALED AREAS.
3. OTHER ABOVE GRADE CONDUIT SHALL BE EMT WITH STEEL COMPRESSION FITTINGS. IF EXPOSED TO MECHANICAL DAMAGE CONDUIT SHALL BE RIGID GALVANIZED.
4. CONNECTIONS TO EQUIPMENT AND FIXTURES SHALL BE MADE WITH SEAL TIGHT FLEX CONDUIT FOR EXTERIOR CONNECTIONS AND GREENFIELD FOR INTERIOR CONNECTION.
5. ALL RECEPTACLES AND LIGHTING CIRCUITS SHALL HAVE REDUNDANT GROUNDING AS A MINIMUM.

C. WIRING DEVICES SHALL BE ONE MAKE, UNDERWRITERS APPROVED, MANUFACTURED BY PASS & SEYMOUR, HUBBELL OR EQUAL. DEVICE COVERS SHALL BE WEATHERPROOF FOR EXTERIOR COVERS. WIRING DEVICES SHALL BE HOSPITAL GRADE. COLOR FOR NORMAL POWER SHALL BE DETERMINED BY THE ARCHITECT. ALL WIRING DEVICES ON GENERATOR SHALL BE RED IN COLOR.
D. DISTRIBUTION EQUIPMENT SHALL BE THE LATEST PRODUCT; MANUFACTURER SHALL BE G.E., SQUARE D, WESTINGHOUSE, OR ITE. INTERIOR EQUIPMENT SHALL BE NEMA 1 AND EXTERIOR EQUIPMENT SHALL BE NEMA 3R MINIMUM.
E. ALL EQUIPMENT AND FIXTURES SHALL BE UL APPROVED.
F. PROVIDE LAMPS FOR ALL FIXTURES. LAMPS SHALL BE G.E., OR SYLVANIA.

1604 EXECUTION
A. UNLESS OTHERWISE NOTED, SET ALL RECEPTACLES AT 18" AFF, AND SET ALL SWITCHES AT 48" AFF TO THE TOP OF THE BOX.
B. HOLES SHALL BE DRILLED OR CUT. DO NOT BREAK HOLES.
C. THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING, PATCHING AND PAINTING NECESSARY TO INSTALL ALL EQUIPMENT AS REQUIRED UNDER THIS CONTRACT, AND SHALL ESTABLISH ALL FINISHES WHEN CUTTING AND PATCHING OCCUR TO THEIR ORIGINAL CONDITION. QUALIFIED WORKERS SHALL DO ALL CUTTING AND PATCHING WORK (I.E. DRY WALL CUTTING AND PATCHING SHALL BE DONE BY QUALIFIED DRY WALL CRAFTSMEN).
D. PATCHING SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. ALL PATCHING SHALL BE DONE BY A CRAFTSMAN SKILLED IN THE WORK BEING PERFORMED.
E. WIRE SHALL BE COLOR CODED AS FOLLOWS:

	120/208
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

F. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EQUIPMENT AND POWER REQUIREMENTS FOR ALL EQUIPMENT BEFORE RUNNING SERVICE.
G. CONDUIT AND WIRING IN FINISHED AREAS SHALL BE CONCEALED. ANY EXPOSED CONDUIT SHALL BE RUN IN A NEAT FASHION AND SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE BUILDING LINES.
H. TELEPHONE AND COMPUTER OUTLETS SHALL BE QUAD RECEPTACLE BOXES WITH DRYWALL FLANGE WITH A 2"X4" OPENING AND 1" EMT STUBBED INTO THE CEILING WITH PULL STRINGS INSTALLED.
I. CONTRACTOR SHALL PRESERVE ALL FIRE RATED WALLS AND CEILINGS. VERIFY RATING WAS OFF THE ARCHITECTURAL PLAN. THIS SHALL INCLUDE USING CAULKING THAT IS UL APPROVED FOR THE APPLICATIONS, OFFSETTING BOXES AS REQUIRED AND PROVIDING RATED CAPS OR COVERS FOR LIGHTS, AS REQUIRED.
J. PROVIDE BOTH POWER AND SERVICE SIDE CONNECTIONS.

1605 DIRECTORY CARDS, NAME PLATES & EQUIPMENT LABELS
A. PROVIDE A TYPED DIRECTORY CARD IN EACH PANELBOARD INDICATING ELECTRICAL DEVICES OR EQUIPMENT SERVED BY EACH CIRCUIT BREAKER. FURNISH BLANK COVERPLATE.
B. PROVIDE NAMEPLATES FOR PANELS AND DISCONNECTS. NAMEPLATES SHALL BE LAMINATED PLASTIC. EACH NAMEPLATE SHALL IDENTIFY THE PANEL AND THE VOLTAGE. NAMEPLATES SHALL BE MELAMINE PLASTIC, 0.125 INCH THICK, BLACK WITH WHITE CENTER CORE. SURFACE SHALL BE MATTE FINISH. CORNERS SHALL BE SQUARE. ACCURATELY ALIGN LETTERING AND ENGRAVE INTO CORE. MINIMUM SIZE OF NAMEPLATES SHALL BE 1" X 2.5" INCHES. LETTERING SHALL BE A MINIMUM OF 0.25 INCHES HIGH, NORMAL BLOCK STYLE.

1606 TEST & ADJUSTMENTS
A. TEST AND ADJUST THE ELECTRICAL SYSTEM AND RELATED WORK PROVIDED UNDER THIS DIVISION OF THE SPECIFICATIONS.
B. TEST ALL CIRCUITS WITH A "MEGGER" TEST TO DETERMINE THAT THE SYSTEM IS FREE OF SHORT CIRCUITS AND THAT PHASE CONDUCTORS ARE NOT GROUNDED. CHECK ALL ELECTRICAL EQUIPMENT FOR PROPER OPERATIONS.

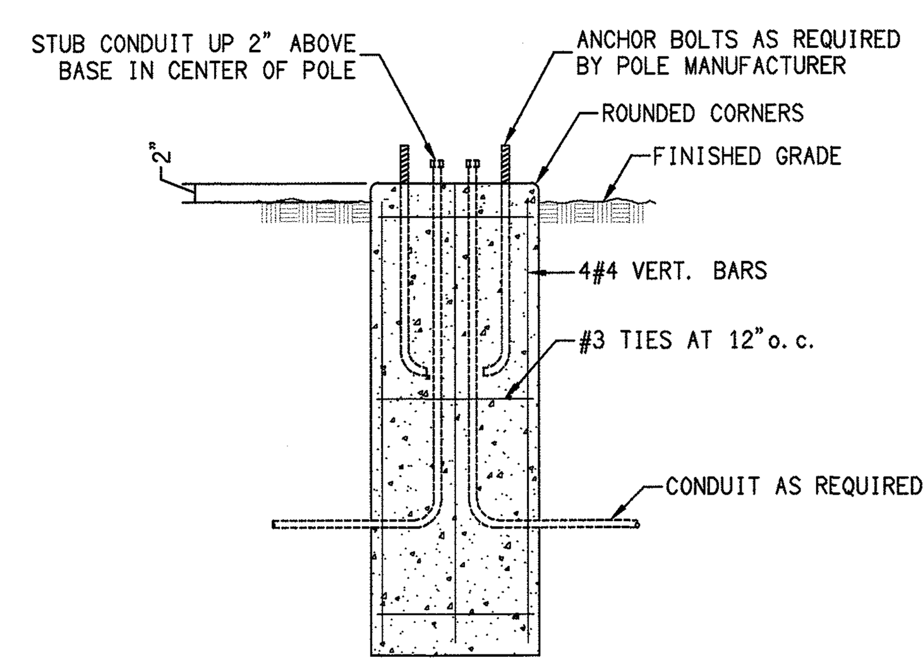
1607 GROUNDING
A. THE SERVICE EQUIPMENT, CONDUIT SYSTEM SUPPORT CABINETS, EQUIPMENT AND NEUTRAL CONDUCTOR SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. GROUNDING CONDUCTORS SHALL BE SO ROUTED AS TO PERMIT, AS FAR AS PRACTICAL, THE SHORTEST AND MOST DIRECT PATH TO THE GROUND ELECTRODE SYSTEM. ALL GROUND CONNECTIONS SHALL HAVE A CLEAN CONTACT SURFACE.
B. RUN A SEPARATE EQUIPMENT GROUND IN ALL FEEDS.

1608 SUBSTITUTION
A. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED AND SHALL BE OF THE VERY BEST QUALITY AS SPECIFIED.
B. REQUESTS TO SUBSTITUTE OTHER MATERIALS OR PRODUCTS FOR THOSE SPECIFIED SHALL BE SENT IN WRITING TO THE OWNER. REQUESTS SHALL BE ACCOMPANIED BY ENGINEERING DATA, SPECIFICATION SHEETS, ETC., AS NECESSARY TO FULLY IDENTIFY AND APPRAISE THE PRODUCTS.
C. APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF NONCOMPLIANCE WITH THE SPECIFICATIONS EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE ENGINEER IS CALLED TO THE NONCONFORMING FEATURES BY LETTER ACCOMPANYING THE SUBMITTAL DATA.

1609 VISIT TO SITE
ALL BIDDERS ON THIS WORK SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITION.

1610 SHOP DRAWINGS
AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER THE CONTRACT IS SIGNED, THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF THE SHOP DRAWINGS COVERING LIGHTING FIXTURES, PANELS, CIRCUIT BREAKERS, AND WIRING DEVICES, AND ANY SPECIAL EQUIPMENT WHICH HE INTENDS TO USE. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR HIS APPROVAL.

1611 DEMOLITION
PROVIDE ALL ELECTRICAL DEMOLITION.



NOTE:
ALL CONCRETE WORK SHALL CONFORM TO SPECIFICATIONS AND SHALL BE -3000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS

B / E3 — TYPE SA BOLLARD BASE DETAIL
SCALE: NTS

PANEL-BB
TYPE BOLT-ON MOUNTING FLUSH ENCLOSURE NEMA-1 PHASE 3 WIRE 4
VOLTS 120/208 MAIN 400A MLO FRAME 400A SHORT CIR.RATING ____ RMS SYM MIN

CKT. NO.	CKT. BKR. TRIP	DESCRIPTION	PHASE LOADING A	B	C	LOADING PHASE A	B	C	DESCRIPTION	CKT. BKR. TRIP	CKT. NO.
1	20/1	RECPT - LIVING	6			2			RECPT - RR	20/1	2
3	20/1	RECPT - LIVING		6			10		RECPT	20/1	4
5	20/1	RECPT - LIVING			6			10	TUB	20/1	6
7	20/1	RECPT - LIVING	10			4			GFI EXT	20/1	8
9	20/1	RECPT - LIVING		8			38		AHU-2	45/2	10
11	20/1	LTS			8			38		↓	12
13	20/1	LTS - LR	10			68			DOAS-1	80/3	14
15	20/2	HP-1		13			68				16
17	↓				13			68		↓	18
19	30/2	AHU-1	18			2			RECPT	20/1	20
21	↓			18			–		SPARE	20/1	22
23	30/2	HP-2			19			2	RECPT	20/1	24
25	↓		19								26
27	20/1	SPARE		–							28
29	20/1	SPARE			–			5	F-1	20/1	30
31	50/3	HWT	33								32
33				33							34
35	↓				33						36
37						8			PANEL EC	60/3	38
39							16				40
41								14		↓	42
SUBTOTAL			96	78	79	84	132	137			

TOTAL PANEL LOAD: Aø 180A Bø 210A Cø 216A
NEUTRAL TERMINAL BAR [X]
GROUND TERMINAL BAR [X]
NOTES:

PANEL-EC1
TYPE BOLT-ON MOUNTING FLUSH ENCLOSURE NEMA-1 PHASE 3 WIRE 4
VOLTS 120/208 MAIN 40A MLO FRAME 100A SHORT CIR.RATING 10,000 RMS SYM MIN

CKT. NO.	CKT. BKR. TRIP	DESCRIPTION	PHASE LOADING A	B	C	LOADING PHASE A	B	C	DESCRIPTION	CKT. BKR. TRIP	CKT. NO.
1	20/1	RECPT - MED PREP	4			2			LTS	20/1	2
3	20/1	RECPT - MED PREP		6			–		SPARE	20/1	4
5	20/1	RECPT - N.S.			8			–	SPARE	20/1	6
7	20/1	N.C.	4			–			SPARE	20/1	8
(1) 9	20/1	REFG		10							10
11	20/1	RECPT - NOUR			6						12
13	20/1	LTS - ATTIC	2								14
15											16
17											18
19											20
21											22
23											24
25											26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42
SUBTOTAL			10	16	14	2	0	0			

TOTAL PANEL LOAD: Aø 12A Bø 16A Cø 14A
NEUTRAL TERMINAL BAR [X]
GROUND TERMINAL BAR [X]
NOTES: (1) GFI BREAKER.

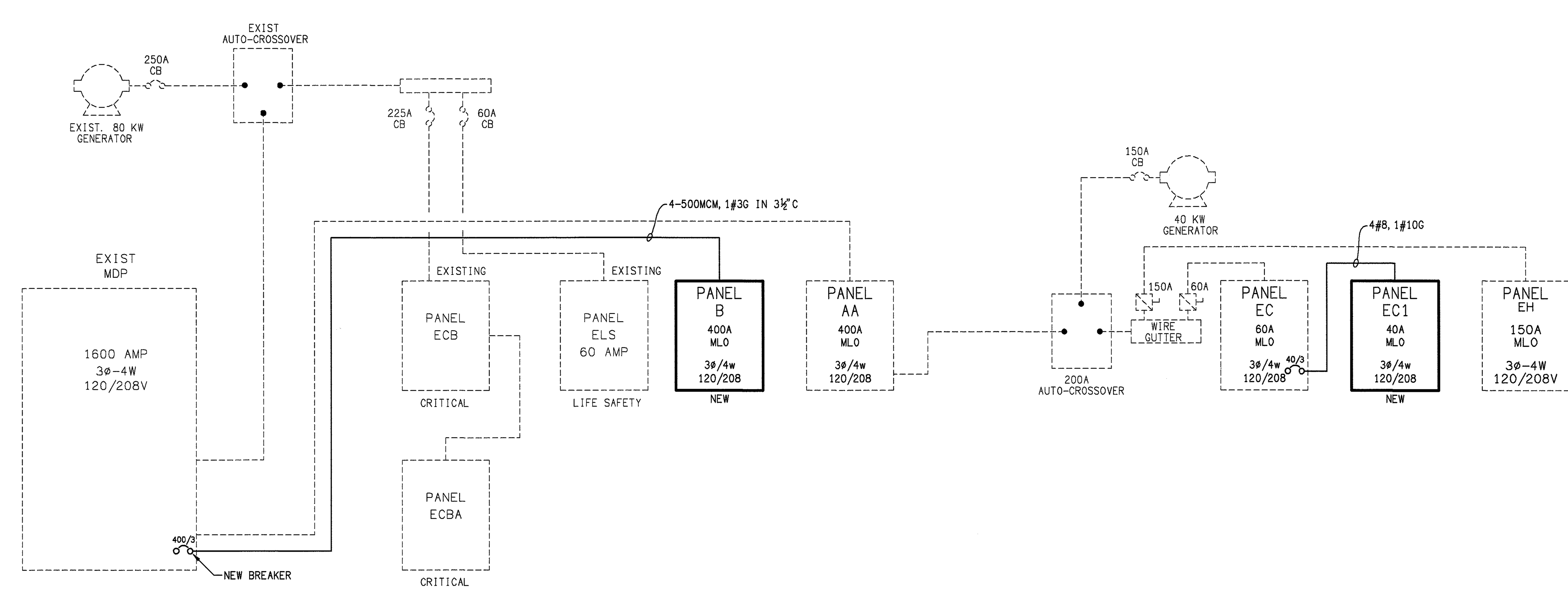
LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMP NO	WATT	TYPE	COLOR TEMP	LUMENS	VOLT	MFG.	MODEL	MOUNTING	REMARKS
A	CAN	–	15	LED	–	–	120	PRESCOLITE	LBP6-6LBP 15L40KWH	CEILING RECESSED	–
B	CHANDELIER	–	30	LED	–	–	120	ULTRALIGHT	0U80-39SP-0A-04	SUSPEND FROM CEILING	–
C	RECESSED DOWN LIGHT	–	35	LED	–	–	120	LITHONIA	LDNG-40/30 LU6AR-LSS-E210	RECESSED	–
D	2x4 SURFACE WRAP	–	72	LED	–	–	120	LITHONIA	2RTLX4-72W E21-LP840	SURFACE	–
D1	2x4 SURFACE WRAP	–	55	LED	–	–	120	LITHONIA	2RTLX4-60W E21-LP840	SURFACE	–
E	BOLLARD	1	42	LED	–	–	120	SUN VALLEY	BRA8-CL/36LED120NW/ RAL-9005-T	CONCRETE BASE SEE C/E4	–
F	EXTERIOR SCONCE	–	–	–	–	–	–	–	–	–	PROVIDE $100/EA ALLOWANCE
G	INTERIOR WALL SCONCE	2	5	64 LED	–	–	120	HINKLEY	MILEY 5052BN	OVER MIRROR	–
H	6" DOWN LIGHT	–	35	LED	–	–	120	LITHONIA	LDNG-40/30 LU6AR-LSS-MVOLT-E210	RECESSED	–
I	ATTIC LIGHT	1	12	LED	–	–	120	KEYLESS	–	CEILING	PROVIDE PROTECTIVE CAGE
⊗	EXIT	–	–	LED	–	–	120	LITHONIA	EXR LED M6	WALL OR CEILING	PROVIDE BATTERY BACKUP.
⊗ WP	EXIT	–	–	LED	–	–	120	LITHONIA	EXR LED EL M6	WALL OR CEILING	PROVIDE BATTERY BACKUP. U.L. WET LOCATION.

LIGHT FIXTURE NOTES:
1. LIGHT FIXTURES SHALL BE APPROVED BY THE OWNER.

EQUIPMENT CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	HP	KW	AMP	VOLT	PHASE	BKR	FEEDER COND	FEEDER WIRE	CONNECTION	REMARKS
HP-1	2 TON HEAT PUMP	–	–	13	208	1	20/2	½"	2#12, 1#12G	FUSED DISC NEMA 3R	–
HP-2	3 TON HEAT PUMP	–	–	19	208	1	30/2	½"	2#10, 1#10G	FUSED DISC NEMA 3R	–
AHU-1	AIR HANDLING UNIT	–	3.8	18	208	1	30/2	½"	2#10, 1#10G	FUSED DISC NEMA 1	–
AHU-2	AIR HANDLING UNIT	–	5.7	38	208	1	45/2	¾"	2#8, 1#10G	FUSED DISC NEMA 1	–
DOAS-1	DEHUMIDIFICATION UNIT	–	–	–	208	1	80/3	1½"	3#4, 1#4G	FUSED DISC NEMA 3R	–
HWT	HOT WATER TANK	–	12	33	208	3	50/3	¾"	3#8, 1#10G	FUSED DISC NEMA 1	–



A / E3 — Renovated Power Riser
SCALE: NTS

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BUILDING RENOVATIONS
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symbol	date	description	by
REVISIONS			

E3

DSA #26930

TIME- 11:56 DATE- 06/19/2026 DRAWING LOCATION- F:\PROJECTS\2026\26930\Planwork\DWGS\26930e4.dwg

FIRE ALARM LEGEND

M	MANUAL PULL STATION MTD. AT 4'-0" TO CENTER
S	SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED
H^XX	CHIME/STROBE, XX CANDELA, MOUNTED AT 84" TO CENTERLINE OF OUTLET BOX
S^XX	STROBE ONLY, XX CANDELA, MOUNTED AT 84" TO CENTERLINE OF OUTLET BOX

DOOR SECURITY LEGEND

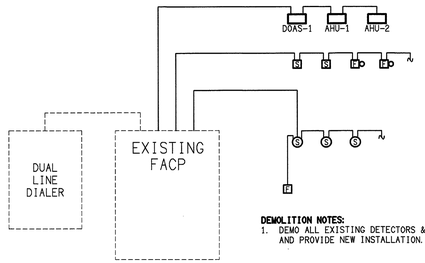
DS	DOOR SECURITY CONTROL PANEL
ES	EMERGENCY SHUTOFF, PROVIDE CLEAR PLASTIC COVER WITH SOUNDER
CR	CARD READER - INTERIOR
CR WP	CARD READER - EXTERIOR, WEATHER PRROF
EL	MAGNETIC DOOR LOCK
KP	KEY PAD
EPS	EMERGENCY PULL STATION
RTE	REQUEST TO EXIT

NURSE'S CALL LEGEND

NC	NURSE'S CALL, MASTER STATION
B1	NURSE'S CALL, BEDSIDE STATION, @ 3'-0" AFF., ONE STATION
B2	NURSE'S CALL, BEDSIDE STATION, @ 3'-0" AFF., TWO STATIONS
N	NURSE'S CALL, EMERGENCY STATION IN TOILET AND BATHS 3'-6" TO CENTERLINE, WEATHERPROOF
	NURSE'S CALL, DOME LIGHT, MOUNT ON CEILING
	DIRECTIONAL DOME LIGHT
LED	NURSE' CALL, DIRECTIONAL LED LIGHT, ARROW TO INDICATE AREA OF PATIENT NEED
VD	VISIBLE DUTY LIGHT

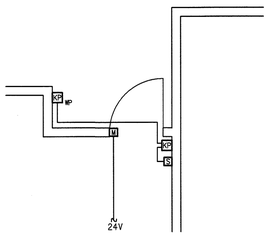
DEMOLITION NURSE CALL NOTES:
1. REMOVE ALL THE EXISTING DEVICES.
2. PROVIDE NEW NURSE CALL SYSTEM.
3. PROVIDE THE SAME SYSTEM AS THE EXISTING SYSTEM.

FIRE ALARM INSTALLATION NOTES:
1. WIRE SHALL BE COPPER.
2. ALL WIRE SHALL BE CAPPED AND RUN IN CONDUIT (EXCEPTION, SEE NOTE 4)
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" EMT WITH JUNCTION BOXES PAINTED RED.
4. U.L. APPROVED FIRE ALARM CABLE MARKED FPL PER NEC 760-28 SHALL BE ALLOWED IN CONCEALED IN NON-PLENUM AREAS ONLY WHEN NOT EXPOSED TO MECHANICAL DAMAGE. ROUTED IN FINISHED AREA AND TO COMPLY WITH NFPA-72 OTHERWISE ROUTE IN METAL CONDUIT.
5. ALL ALARM CIRCUITS SHALL BE 14 AWG MIN. SIGNAL CIRCUITS CAN BE 16 AWG MIN. ALL OTHER WIRE SHALL BE SIZED PER MFG INSTRUCTIONS.
6. ALL ALARM CIRCUITS SHALL BE 24V MIN.
7. DUCT DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
8. THE FIRE SMOKE DAMPER SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
9. FIRE ALARM SYSTEM SHALL BE ADDRESSABLE.

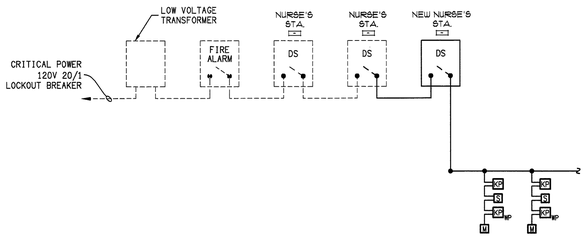


DEMOLITION NOTES:
1. DEMO ALL EXISTING DETECTORS & DEVICES AND PROVIDE NEW INSTALLATION.

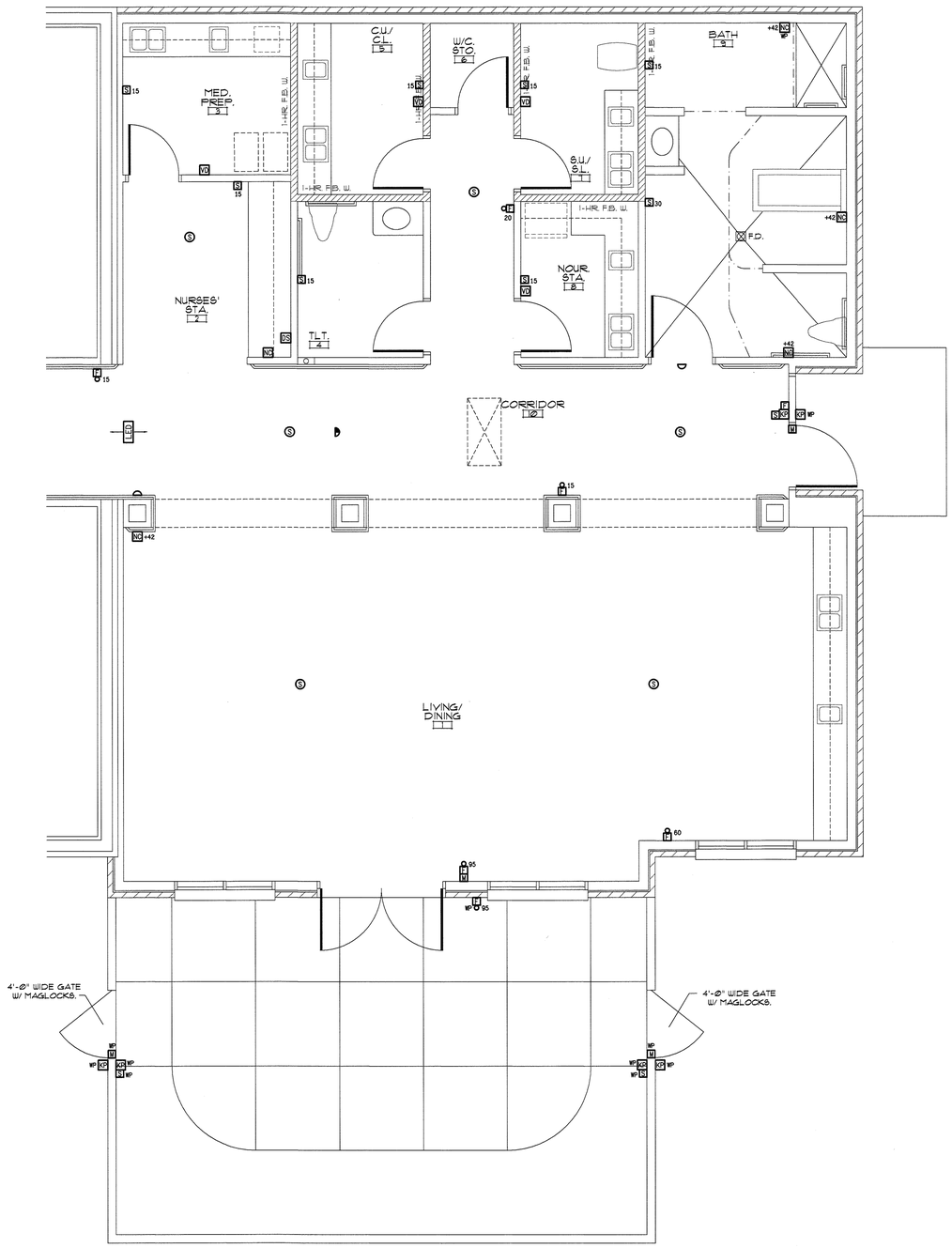
D E4 Fire Alarm Riser
SCALE: NTS



C E4 Mag Locks at Door
SCALE: NTS



B E4 SCHEMATIC WIRING DIAGRAM MAGNETIC DOOR LOCK SYSTEM
SCALE: NTS



A E4 New Alzheimer Staff Support and Common Area Addition Low Voltage Plan
SCALE: 1/4" = 1'-0"

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BUILDING RENOVATIONS
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E 4

symbol	date	description	by
REVISIONS			

DSA #26930

FIRE ALARM LEGEND

Symbol	Description
F	MANUAL PULL STATION MTD. AT 4'-0" TO CENTER
S	SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED
XX	CHIME/STROBE, XX CANDELA, MOUNTED AT 84" TO CENTERLINE OF OUTLET BOX
XX	STROBE ONLY, XX CANDELA, MOUNTED AT 84" TO CENTERLINE OF OUTLET BOX

DOOR SECURITY LEGEND

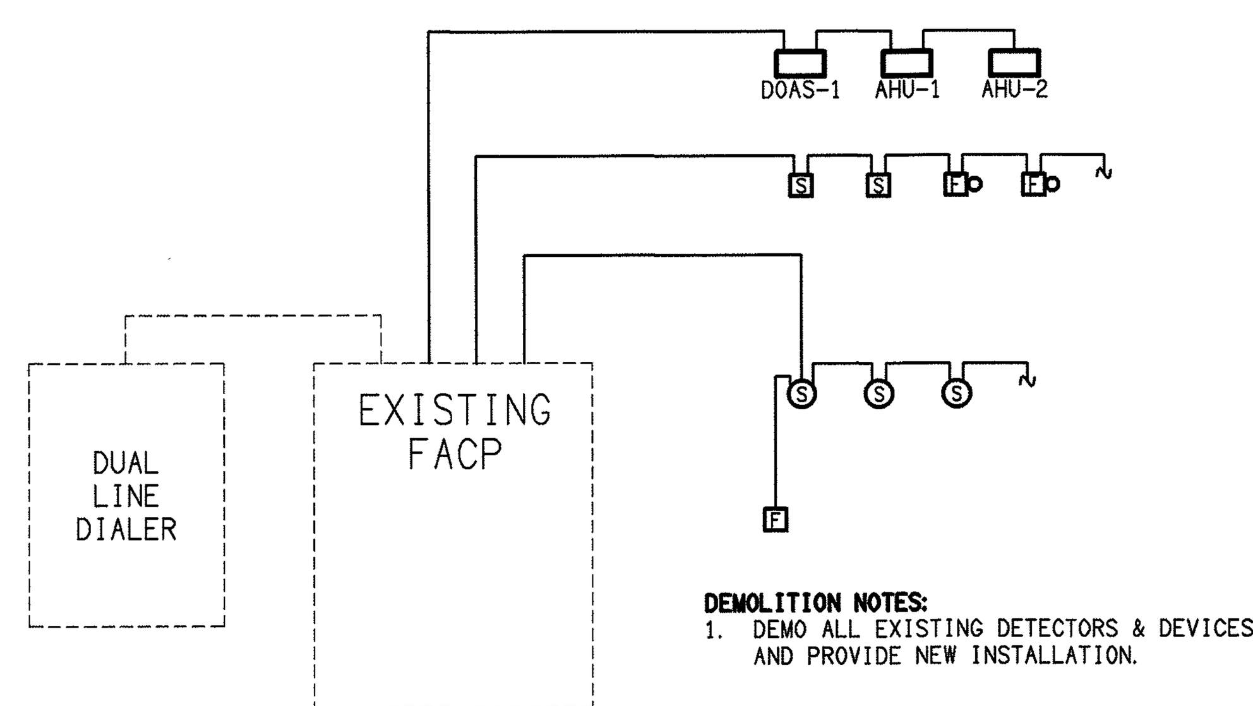
Symbol	Description
DS	DOOR SECURITY CONTROL PANEL
S	EMERGENCY SHUTOFF, PROVIDE CLEAR PLASTIC COVER WITH SOUNDER
CR	CARD READER - INTERIOR
CR WP	CARD READER - EXTERIOR, WEATHER PRROF
M	MAGNETIC DOOR LOCK
KP	KEY PAD
EPS	EMERGENCY PULL STATION
RTE	REQUEST TO EXIT

NURSE'S CALL LEGEND

Symbol	Description
NC	NURSE'S CALL, MASTER STATION
B1	NURSE'S CALL, BEDSIDE STATION, @ 3'-0" AFF., ONE STATION
B2	NURSE'S CALL, BEDSIDE STATION, @ 3'-0" AFF., TWO STATIONS
E	NURSE'S CALL, EMERGENCY STATION IN TOILET AND BATHS 3'-6" TO CENTERLINE, WEATHERPROOF
	NURSE'S CALL, DOME LIGHT, MOUNT ON CEILING
	DIRECTIONAL DOME LIGHT
LED	NURSE' CALL, DIRECTIONAL LED LIGHT, ARROW TO INDICATE AREA OF PATIENT NEED
VD	VISIBLE DUTY LIGHT

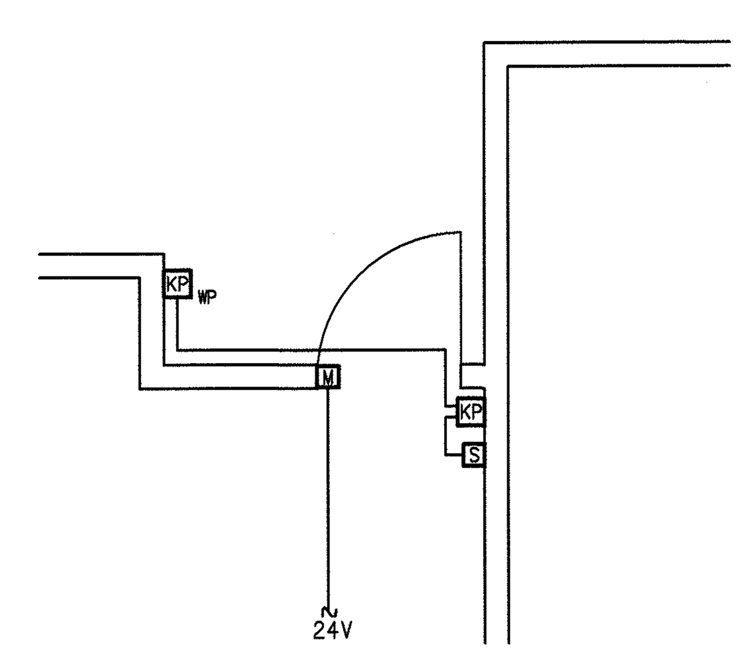
DEMOLITION NURSE CALL NOTES:
1. REMOVE ALL THE EXISTING DEVICES.
2. PROVIDE NEW NURSE CALL SYSTEM.
3. PROVIDE THE SAME SYSTEM AS THE EXISTING SYSTEM.

FIRE ALARM INSTALLATION NOTES:
1. WIRE SHALL BE COPPER.
2. ALL WIRE SHALL BE CAPPED AND RUN IN CONDUIT (EXCEPTION, SEE NOTE 4)
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" EMT WITH JUNCTION BOXES PAINTED RED.
4. U.L. APPROVED FIRE ALARM CABLE MARKED FPL PER NEC 760-28 SHALL BE ALLOWED IN CONCEALED IN NON-PLENUM AREAS ONLY WHEN NOT EXPOSED TO MECHANICAL DAMAGE. ROUTED IN FINISHED AREA AND TO COMPLY WITH NFPA-72 OTHERWISE ROUTE IN METAL CONDUIT.
5. ALL ALARM CIRCUITS SHALL BE 14 AWG MIN. SIGNAL CIRCUITS CAN BE 16 AWG MIN. ALL OTHER WIRE SHALL BE SIZED PER MFG INSTRUCTIONS.
6. ALL ALARM CIRCUITS SHALL BE 24V MIN.
7. DUCT DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
8. THE FIRE SMOKE DAMPER SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
9. FIRE ALARM SYSTEM SHALL BE ADDRESSABLE.

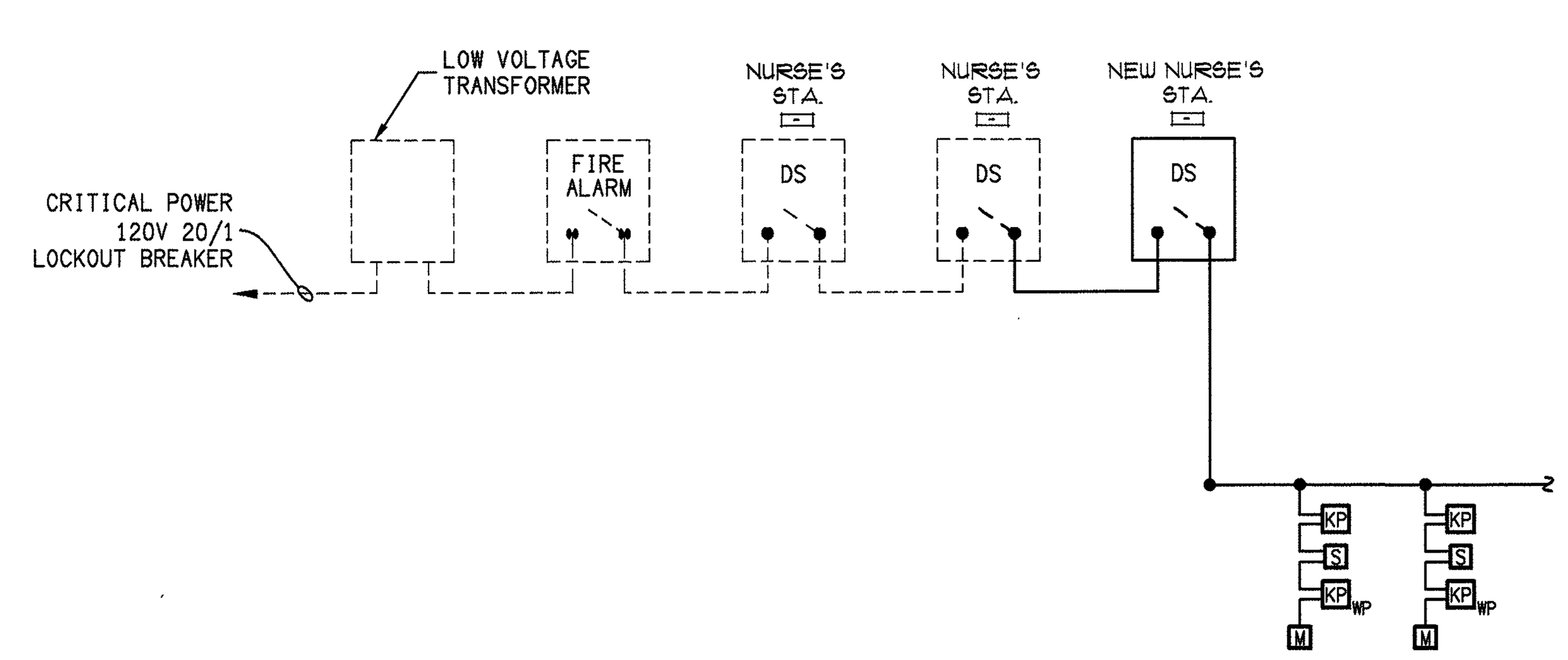


DEMOLITION NOTES:
1. DEMO ALL EXISTING DETECTORS & DEVICES AND PROVIDE NEW INSTALLATION.

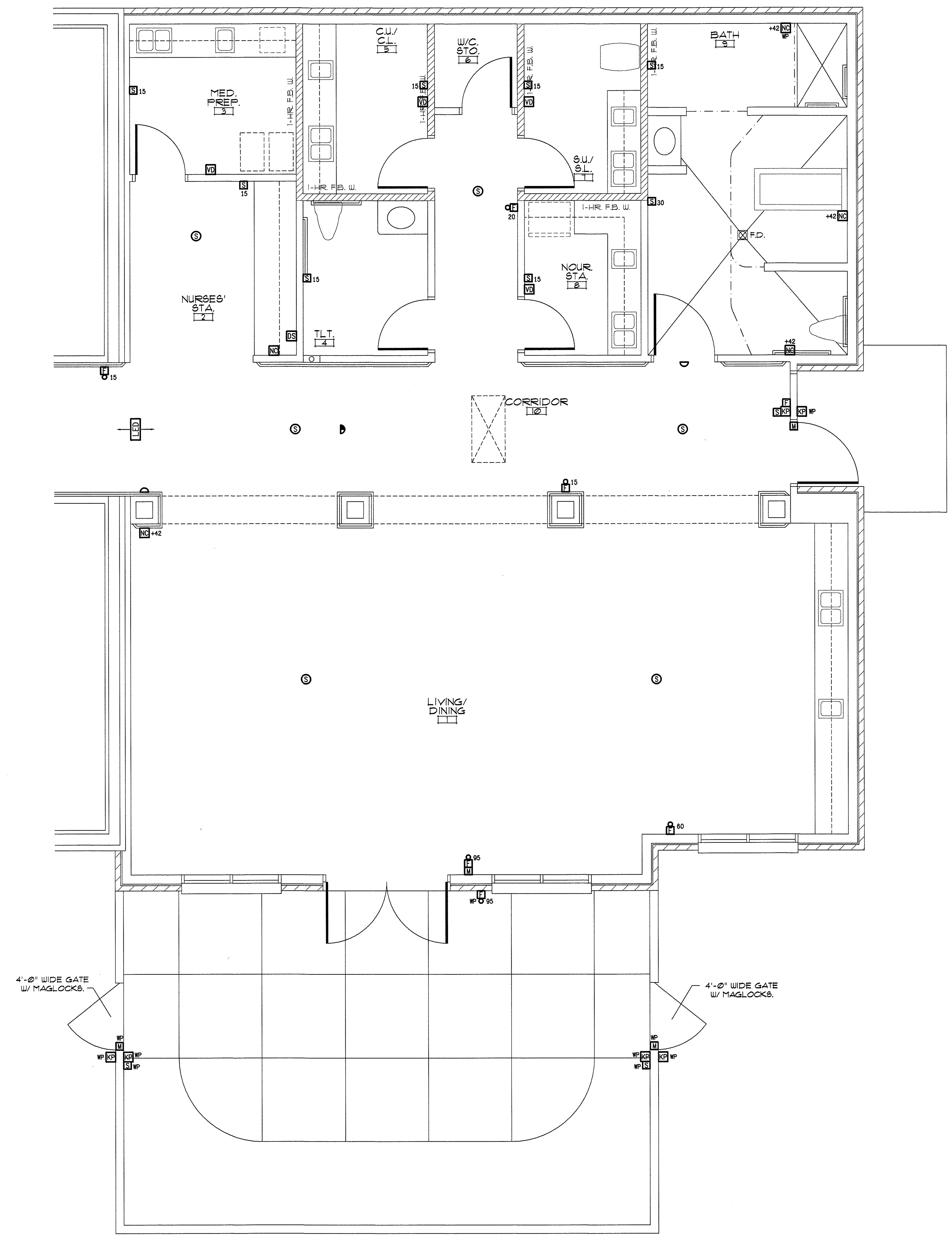
D / E5 **Fire Alarm Riser**
SCALE: NTS



C / E5 **Mag Locks at Door**
SCALE: NTS



B / E5 **SCHEMATIC WIRING DIAGRAM MAGNETIC DOOR LOCK SYSTEM**
SCALE: NTS



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