

CODE EDITIONS

NFPA 10 PORTABLE FIRE EXTINGUISHERS, 2022 EDITION
NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2019 EDITION
NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2022 EDITION
NFPA 54 NATIONAL FUEL GAS CODE, 2021 EDITION
NFPA 70 NATIONAL ELECTRICAL CODE, 2023 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2022 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2022 EDITION
NFPA 90A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, 2021 EDITION
NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS, 2021 EDITION
NFPA 96 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS, 2021 EDITION
NFPA 99 HEALTH CARE FACILITIES CODE, 2021 EDITION
NFPA 101 LIFE SAFETY CODE, 2021 EDITION
NFPA 105 STANDARD FOR SMOKE DOOR ASSEMBLIES AND OTHER OPENING PROTECTIVES, 2022 EDITION
NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2022 EDITION
NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, 2019 EDITION
ASHRAE 90.1 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS, 2016 EDITION

PER NFPA 101 2018 TABLE 7.3.1.2 OCCUPANT LOAD FACTOR
NEW HEALTHCARE 240 SQFT / PERSON

BASED ON THE OCCUPANT LOAD CALCULATIONS BELOW THE COMBINED OCCUPANT LOAD CAN SAFELY EGRESS OUT ANY EGRESS COMPONENT AS SHOWN.

SMOKE COMPARTMENT AREA AND OCCUPANCY CALCULATION		TOTAL AREA / SQFT PER PERSON NOTE ABOVE
ASSEMBLY USE (WAITING AREA)	1,264 SQFT	1,264 SQFT / 15 SQFT / PERSON = 85 OCCUPANTS
SMOKE COMPARTMENT AREA 2B	8,456 SQFT	8,456 SQFT / 240 SQFT / PERSON = 36 OCCUPANTS
SMOKE COMPARTMENT AREA 2	4,061 SQFT	4,061 SQFT / 240 SQFT / PERSON = 17 OCCUPANTS
TOTAL NUMBER OF OCCUPANTS	13,781 SQFT	13,781 SQFT 138 OCCUPANTS

GENERAL SHEET NOTES

- A. ALL DIMENSIONS ALONG AN EGRESS ROUTE ARE CLEAR:
INSIDE OF HANDRAILS, CHAIR RAILS, ETC.
B. INSTALL RED FIRE RATED SEALANT ON RATED WALL PENETRATIONS. INSTALL WHITE SEALANT ON OTHER WALL PENETRATIONS. DO NOT USE RED FIRE RATED SEALANT ON SMOKE TIGHT AND NON-RATED WALLS.

SHEET KEYNOTES

- 1.11 EXTERIOR WALLS AT THESE LOCATIONS TO BE 1-HR RATED.
02.32 LOCATION OF TEMPORARY BARRIER WALL TO BE FURNISHED BY GC.
07.19 NEW WALKWAY PADS.
08.15 NEW 60-MIN FIRE-RATED WINDOW ASSEMBLY.
08.16 NEW 60-MIN FIRE-RATED DOOR ASSEMBLY.

LIFE SAFETY SYMBOLS

- INDICATES AREA NOT IN SCOPE OF WORK
- HAZARDOUS AREA 1HR RATED
- SMOKE DETECTOR
- EXIT SIGN - LIT FACES INDICATED BY SHADING
- NEW - FIRE EXTINGUISHER CABINET (FEC) LOCATION
- EXISTING - FIRE EXTINGUISHER CABINET (FEC) LOCATION
- EGRESS TRAVEL PATH
- TD: TRAVEL DISTANCE
CPOT: COMMON PATH OF TRAVEL DISTANCE
- EGRESS SYMBOL
- CLEAR WIDTH
- CAPACITY FACTOR
- ACTUAL CAPACITY

PARTITION GRAPHICS

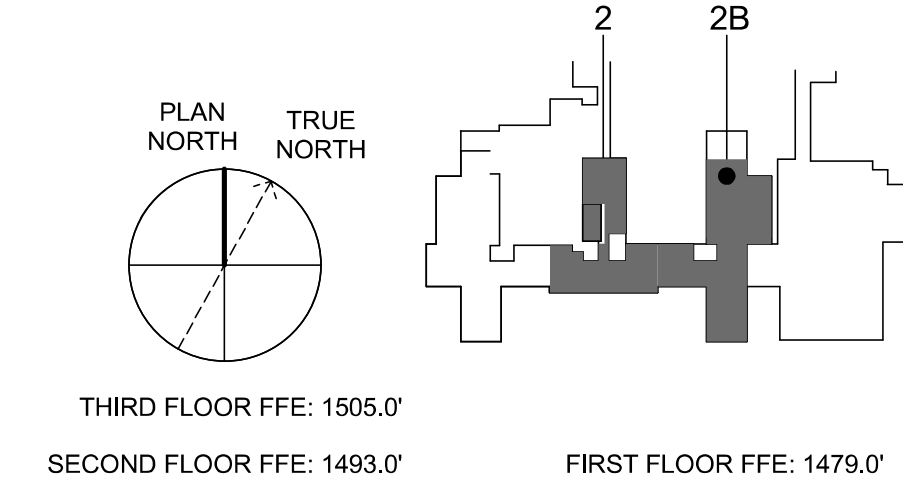
PARTITION PHASING

- EXISTING ELEMENT TO REMAIN
- EXISTING ELEMENT TO BE DEMOLISHED
- TEMPORARY 1-HOUR RATED ELEMENT TO BE CONSTRUCTED AND DEMOLISHED IN SAME PHASE

PARTITION RATING

- NO RATING
- SMOKE RESISTIVE PARTITION - NON RATED
- 1 HOUR FIRE BARRIER
- 1 HOUR FIRE/SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR FIRE/ SMOKE BARRIER

KEY PLAN



CODE SUMMARY

APPLICABLE CODES IN ORDER OF PRECEDENCE:
VETERANS AFFAIRS "FIRE PROTECTION DESIGN MANUAL," NFPA CODES CURRENT ADDITIONS
OCCUPANCY CLASSIFICATION: NEW HEALTHCARE, MAIN USE: NFPA 101 CHAPTER 18.
SECONDARY USES: N/A
HIGH-RISE / NOT HIGH-RISE: NOT HIGH-RISE (3.3.3.7.7)
NO. OF STORIES (EXISTING / RENOVATE / PERMITTED): 4 STORIES & BASEMENT / 2 STORIES / PERMITTED ≥ 4
CONSTRUCTION TYPE LIMITATIONS: NFPA 101 TABLE 18.1.6.1
BUILDING HEIGHT (FT) LIMITATIONS (PROPOSED / PERMITTED): NO CHANGE / ≥ 4 STORIES / UNLIMITED

MINIMUM CONSTRUCTION CLASSIFICATION, 1932 MAIN BUILDING 1:
TYPE I (332) (PER STATEMENT OF CONDITIONS)

MINIMUM CONSTRUCTION CLASSIFICATION, 1976 MECHANICAL ADDITIONS:
TYPE II (000) (PER STATEMENT OF CONDITIONS)

RELEVANT FIRE RESISTANCE RATINGS PER NFPA TABLE A.8.2.1.2:

CONSTRUCTION ELEMENT	TYPE I (332) REQUIRED RATING	UL DESIGN (IF APPLICABLE)
EXTERIOR NON-BEARING WALLS	0	
INTERIOR NON-BEARING WALLS	0	
FLOOR / CEILING ASSEMBLIES	2	EXISTING CONCRETE
ROOF / CEILING ASSEMBLIES	1 - 1/2	EXISTING CONCRETE
BEAMS, GIRDERS, TRUSSES, AND ARCHES [SUPPORTING MORE THAN ONE FLOOR]	3	EXISTING 1-WAY CONCRETE JOIST SLAB
COLUMNS [SUPPORTING MORE THAN ONE FLOOR]	3	EXISTING CONCRETE

RENOVATION TOTAL 19,491 SF

MAX. PERMITTED AREA UNLIMITED

AUTOMATIC QUICK RESPONSE HEAD SPRINKLERS THROUGHOUT: YES
PER VA FIRE PROTECTION DESIGN MANUAL (2015, P.23 (K)). SEE FIRE PROTECTION DRAWINGS FOR FURTHER CLARIFICATION

NFPA 101 (2018) 18.3.7.1 - MAX SMOKE COMPARTMENT PERMITTED = 22,500 SQFT
NFPA 101 (2018) 18.3.7.1 - MAX TRAVEL DISTANCE WITHIN SMOKE BARRIER = 200 FT
COMMON PATH OF TRAVEL 75 FT MAX

STANDPIPE SYSTEM: YES, EXISTING

SEPARATION OF USES: HAZARDOUS AREAS SEPARATED BY 1-HR RATED WALL

AREA INCREASE DUE TO OPEN SPACE: N/A

AREA INCREASE FOR SPRINKLER SYSTEM: N/A

FLOOR AREA (SF) LARGEST FLOOR (PROPOSED / PERMITTED BY CONSTRUCTION TYPE): UL

TOTAL PERMITTED FLOOR AREA WITH AREA INCREASES: N/A

ELECTRICAL SUPERVISION OF AUTOMATIC SPRINKLER SYSTEMS: YES (9.7.2)

ELECTRICAL SUPERVISION OF BUILDING ALARM AND FIRE DETECTION DEVICES: YES (9.8.2)

FIRE DEPARTMENT NOTIFICATION VIA APPROVED MONITORING OF FIRE SUPPRESSION, DETECTION AND ALARM DEVICES: YES (9.6.4)

FIRE ALARM SYSTEM SOUNDS AN AUDIBLE AND VISIBLE ALARM IN A CONSTANTLY ATTENDED RECEIVING STATION WITHIN THE BUILDING: YES (9.6.7)

BUILDING FIRE COMMAND CENTER: NO

SEISMIC AND WIND LOADING:

PER VA H-18-8 SEISMIC DESIGN MANUAL, P. 15 - SEISMIC BRACING IS NOT REQUIRED AT STATION 564, EXCEPT PER 4.1 (C) NFPA 13 9.3.5

GENERAL FIRE PROTECTION NOTES:

1. THE VETERANS AFFAIRS "FIRE PROTECTION DESIGN MANUAL" REQUIRES THE FOLLOWING:

- THE FIRE PROTECTION DESIGN IS TO BE BASED ON THE LATEST EDITIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AT THE DATE OF AWARD OF THE CONTRACT TO THE ARCHITECTURAL / ENGINEERING FIRM. 2018 NFPA 101 LIFE SAFETY CODE IS IMPLEMENTED.

- FIRE PROTECTION FEATURES NOT ADDRESSED BY THE NFPA ARE TO BE DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), 2018 IBC IS IMPLEMENTED.

2018 NFPA 101 18.2.5.2 DEAD END CORRIDORS.

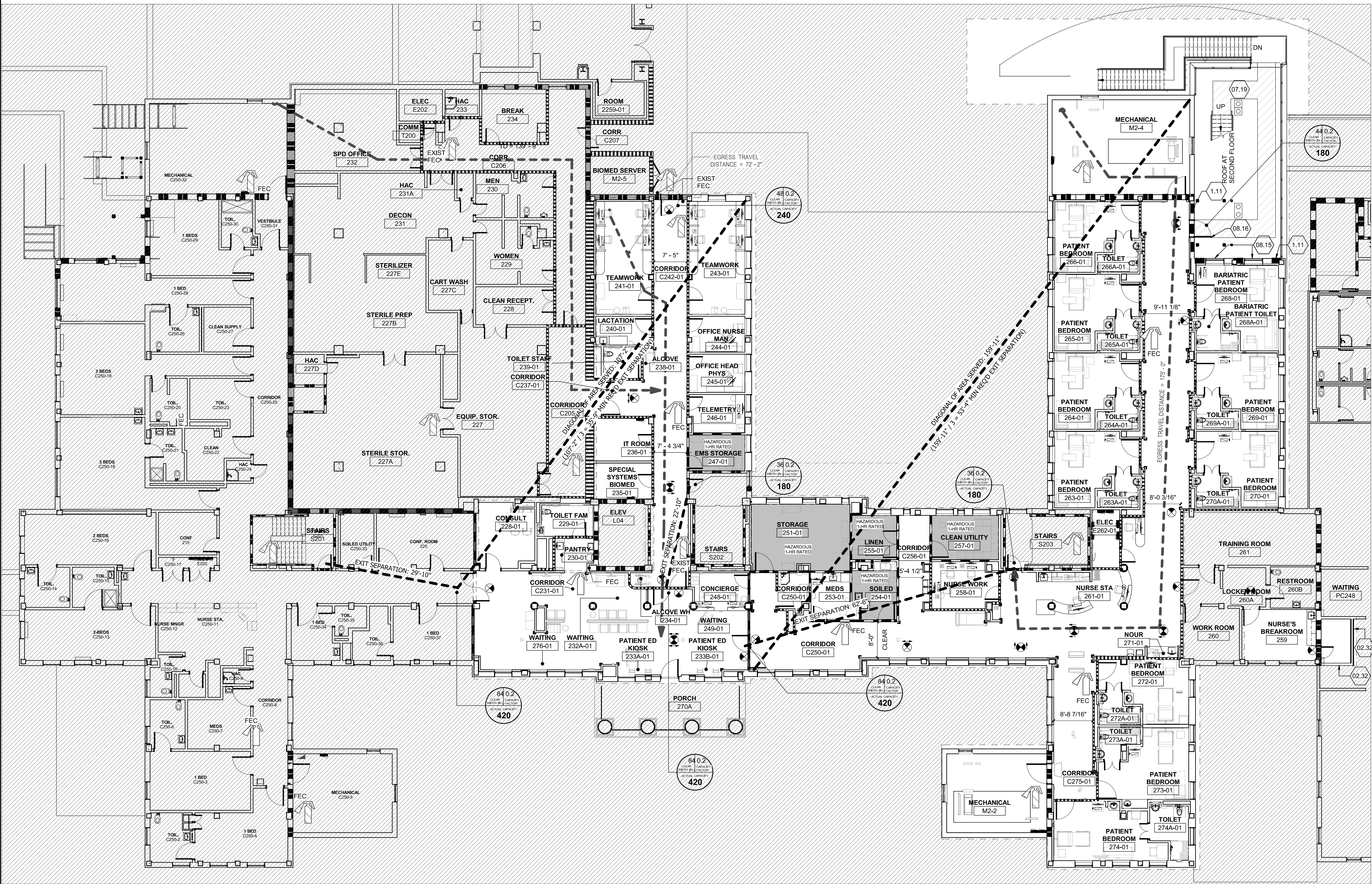
EXISTING DEAD END CORRIDORS EXCEEDING 30 FT SHALL BE PERMITTED TO CONTINUE IN USE IF ITS IMPRACTICAL AND UNFEASIBLE TO ALTER THEM.

NFPA 101 2018 7.2.2.6.2
48" HIGH GUARDS PROVIDING VISUAL PROTECTION 36" - 0" ABOVE FINISH GRADE (AFG).

D1 SECOND FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"

0 5' 10' 20'



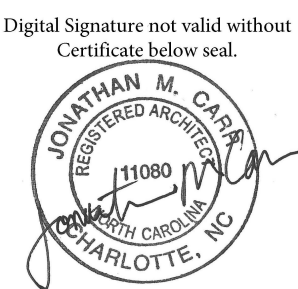
Revisions:		
No.	Description	Date

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HG PROJECT: 18002
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Drawing Title:

SECOND FLOOR LIFE SAFETY PLAN

Project Phase:
BID DOCUMENTS

FULLY SPRINKLERED

Project Title:

RENOVATE MED SURGE WARDS

Location:
VETERANS HEALTHCARE SYSTEM OF THE OZARKS

Date:
MARCH 24, 2024

Checked:
JC/LK

Drawn:
MS

Project Number:

564-17-140

Building Number:

1

Drawing Number:

G1101

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Engineering Service

