NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

10/28/2022

NOVANT HEALTH

1423 GREENFIELD STREET, WILMINGTON, NC 28401

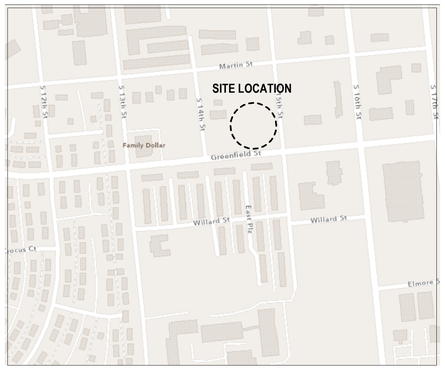
100% CONSTRUCTION DOCUMENTS 10/28/2022

NEIGHBORING CONCEPTS, PLLC
CERT. NO. C-2698
ARCHITECTURE
CHARLOTTE, NC
CERT. NO. 51098

FRANK ARNELL LITTLE
REGISTERED ARCHITECT
9404
NORTH CAROLINA
MOORESVILLE, N. C.
10/28/2022

21-025
NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD
100% CONSTRUCTION DOCUMENTS

VICINITY MAP



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Owner
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COVER SHEET

ISSUE DATE 10/28/2022
CHECKED GB/FL
SHEET BY AB
PROJECT NUMBER 21-025

A000

GENERAL

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

1

SHEET INDEX

ISSUE DATE 10/28/2022

CHECKED Checker

SHEET BY Author

PROJECT NUMBER 21-025

A001

10/28/2022 5:10:01 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

PROJECT SUMMARY / ALTERNATIVE MEANS OF COMPLIANCE

BUILDING DESCRIPTION: **The building is single story construction. The primary building structure is steel with metal stud framing. Exterior walls are masonry veneer and phenolic panels. Openings are glazed in aluminum curtain wall and storefront systems.**

SCOPE OF WORK DETAILS: (If phased construction, please see plan submittal guidelines.) **The project's scope of work is to include site improvements and the new construction for a single story building. Site improvements will include grading, utilities, driveways, parking, and site lighting.**

☐ YES **Does this project have air rights, easements, an assumed or deeded property line, no build easements or other circumstances**
■ NO **similar to the aforementioned?** If yes, please provide a copy of the official documents.
OFFICIAL DOCUMENTS: **NA**

ALTERNATIVE MEANS OF CODE COMPLIANCE:

☐ **Renovation using Chapter 34 (3412-Existing Buildings) in the NCSBC or NFPA 101 as an alternative for Code compliance**
Renovation projects only: If you are using Chapter 34 (3412-Existing Buildings) in the NCSBC or NFPA 101 as an alternative for Code compliance please schedule a preliminary review before submitting your project for review.
Notes for Plans Examiner and Inspectors: Please reporduce the evaluation form on the plans.
DATE OF PRELIMINARY REVIEW: **NA** COMPLIANCE LETTER: **NA**

☐ **Engineering Judgement** (Approval needed from the Code Administrator is required before submitting)
DATE OF APPROVAL: **NA** COMPLIANCE DOCUMENT: **NA**

☐ **Industrial equipment with declaration documents attached** COMPLIANCE DOCUMENT: **NA**
☐ **RTAP (Revision to approved plans.)**

A: PROJECT INFORMATION

NAME OF PROJECT: **NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD**
ADDRESS: **1423 GREENFIELD STREET, WILMINGTON, NC 28401** ZIP CODE: **28401**
OWNER / AUTHORIZED AGENT: PHONE: E-MAIL:
OWNED BY: ☐ CITY / COUNTY ■ PRIVATE ☐ STATE
CODE ENFORCEMENT JURISDICTION: ■ CITY **WILMINGTON** ☐ COUNTY **NEW HANOVER** ☐ STATE **NORTH CAROLINA**

B: CONTACT INFORMATION

DESIGNER	FIRM	NAME	LICENSE #	PHONE # with EXT.	E-MAIL
Architectural	**NEIGHBORING CONCEPTS**	**Darrel Williams**	**5580**	**704.374.0916 x 228**	**darrel@neighboringconcepts.com**
Landscape Architect	**SEPI**	**Lauren Dickson**	**1816**	**919.573.9933**	**ldickson@seplinc.com**
Civil	**SEPI**	**Daniel Miller**	**028948**	**919.357.6725**	**dmiller@seplinc.com**
Electrical	**CMTA**	**Daniel A. Boland**	**38491**	**704.376.7072 x1851**	**DBoland@cmta.com**
Fire Alarm	**CMTA**	**Daniel A. Boland**	**38491**	**704.376.7072 x1851**	**DBoland@cmta.com**
Plumbing	**CMTA**	**James L. Currie**	**31478**	**704.376.7072 x1866**	**JCurrie@cmta.com**
Mechanical	**CMTA**	**James L. Currie**	**31478**	**704.376.7072 x1866**	**JCurrie@cmta.com**
Sprinkler-Standpipe	**CMTA**	**James L. Currie**	**31478**	**704.376.7072 x1866**	**JCurrie@cmta.com**
Structural	**WOODS ENG.**	**Don Woods**	**19475**	**910.343.8007 x 101**	**donwoods@woodseng.com**
Retaining Walls >5'	.	.	.	.	.
Other	.	.	.	.	.

C: CODE INFORMATION

2018 NC BUILDING CODE:
■ **New Building**
☐ **Addition**
☐ **Renovation**
☐ **1st Time Interior Completion**
☐ **Shell/Core -** Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ **Phased Construction -** Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE:
Existing: ☐ Prescriptive ☐ Repair ☐ Renovation
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) **CURRENT OCCUPANCY(S)** (Ch. 3): .
RENOVATED: (date) **PROPOSED OCCUPANCY(S)** (Ch. 3): .

RISK CATEGORY (Table 1604.5):
Current: ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☐ III ☐ IV

D: BASIC BUILDING DATA

Construction Type: (Table 601) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ■ II-B ☐ III-B ☐ V-B
(Check all that apply)

Sprinklers: (Chapter 9) ■ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: (Section 905) ■ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Fire District: ☐ No ☐ Yes **Flood Hazard Area**: (Appendix G) ■ No ☐ Yes

Special Inspections Required: ☐ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements)

E: GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SF)	NEW (SF)	SUB-TOTAL
1st Floor	**NA**	**7797 sf**	**7797 sf**
	.	.	.
	.	.	.
	.	.	.
	.	.	.
	.	.	.
	.	.	.
TOTAL	**NA**	**7797 sf**	**7797 sf**

F: ALLOWABLE AREA

Primary Occupancy Classification(s): (Chapter 3) - Select One
Assembly (303) ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business (304) ■ B
Educational (305) ☐ E
Factory (306) ☐ F-1 Moderate ☐ F-2 Low
Hazardous (307) ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional (308) ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile (309) ☐ M
Residential (310) ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage (311) ☐ S-1 Moderate ☐ S-2 Low
☐ High-piled
☐ Parking Garage
☐ Open
☐ Enclosed
☐ Repair Garage
Utility and Miscellaneous (312) ☐ U

Accessory Occupancies: (if applicable - 508) NA
.
Incidental Uses: (if applicable - Table 509) NA
.
.
.
.
.
.
.

Special Uses: (if applicable, Chapter 4 - List Code Sections) NA
.
Special Provisions: (if applicable, Chapter 5 - List Code Sections) NA
.

Mixed Occupancy: If Applicable
■ No ☐ Yes Seperation: (HR.) . Exception: .

☐ **Incidental Use Separation: (508.2.5)** This seperation is not exempt as a Non-Separated Use (see exceptions).

☐ **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.

☐ **Separated Use: (508.4)**
See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \frac{\ldots}{\ldots} \leq 1.00$$

$$\frac{\textbf{Actual Area of Occupancy A}}{\textbf{Allowable Area of Occupancy A}} + \frac{\textbf{Actual Area of Occupancy B}}{\textbf{Allowable Area of Occupancy B}} + \frac{\textbf{...}}{\textbf{...}} \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE I_f[5] INCREASE	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1st Floor	**Clinic, Outpatient**	**7797 sf**	**23,000**	**NA**	**23,000**
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.

[1] Frontage area increses from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase I_f = 100 [F/P - 0.25] x W/30 = _____ (%)

[2] Unlimited area applicable under conditions of Section 507

[3] Maximum Building Area = total number of stories in the building x D (506.2)

[4] The maximum area of open parking garages must comply with Table 406.5.4.
The maximum area of air traffic control towers must comply with Table 412.3.1.

[5] Frontage increase is based on the unsprinklered area value in table 506.2

G: ALLOWABLE HEIGHT (CHAPTER 5)

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet	**55'**	**24' - 8"**	**CH 5**
Building Height in Stories	**3 Stories**	**1 Story**	**CH 5**

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

H: FIRE PROTECTION REQUIREMENTS (CHAPTER 7)

BUILDING ELEMENT			FIRE SEPARATION DISTANCE (FEET)	RATING** REQUIRED	RATING** PROVIDED (W/ ____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses			.	**0**	.	.	.	.	.
Bearing Walls	Exterior	North	.	**0**	.	.	.	.	.
		East	.	**0**	.	.	.	.	.
		West	.	**0**	.	.	.	.	.
		South	.	**0**	.	.	.	.	.
	Interior		.	**0**	.	.	.	.	.
Non-Bearing Walls & Partitions	Exterior	North	< 5 ft	**N/A**	.	.	.	.	.
			≥ 5-ft to < 10-ft	**N/A**	.	.	.	.	.
			≥ 10-ft to < 30-ft	**0**	.	.	.	.	.
		East	< 5 ft	**N/A**	.	.	.	.	.
			≥ 5-ft to < 10-ft	**N/A**	.	.	.	.	.
			≥ 10-ft to < 30-ft	**0**	.	.	.	.	.
		West	< 5 ft	**N/A**	.	.	.	.	.
			≥ 5-ft to < 10-ft	**N/A**	.	.	.	.	.
			≥ 10-ft to < 30-ft	**0**	.	.	.	.	.
		South	< 5 ft	**0**	.	.	.	.	.
			≥ 5-ft to < 10-ft	**0**	.	.	.	.	.
			≥ 10-ft to < 30-ft	**0**	.	.	.	.	.
	Interior walls & partitions		.	**0**	.	.	.	.	.
Floor Construction including supporting beams and joists			.	**NA**	.	.	.	.	.
Floor Ceiling Assembly			.	**NA**	.	.	.	.	.
Columns Supporting Floors			.	**NA**	.	.	.	.	.
Roof Construction including supporting beams and joists			.	**NA**	.	.	.	.	.
Roof Ceiling Assembly			.	**NA**	.	.	.	.	.
Columns Supporting Roof			.	**NA**	.	.	.	.	.
Shaft Enclosures - Exit			.	**NA**	.	.	.	.	.
Shaft Enclosures - Other			.	**NA**	.	.	.	.	.
Corridor Separation			.	**NA**	.	.	.	.	.
Occupancy Separation			.	**NA**	.	.	.	.	.
Party / Fire Wall Separation			.	**NA**	.	.	.	.	.
Smoke Barrier Separation			.	**NA**	.	.	.	.	.
Tenant Separation			.	**NA**	.	.	.	.	.
Incidental Use Separation		Furnace Rm > 400,000 btu/s	.	**NA**	.	.	.	.	.
		Boiler Rooms with > 15psi and 10 hp	.	**NA**	.	.	.	.	.
		Refrig. Machine Rm	.	**NA**	.	.	.	.	.
		Storage > 100 sf	.	**NA**	.	.	.	.	.

* Indicate section number permitting reduction.

I. PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'	**UP, NS**	**No Limit**	**42% MAX.**
.	.	.	.
.	.	.	.

J. LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ NO ■ YES Smoke Detection Systems: ■ NO ☐ YES ☐ PARTIAL .
Exit Signs: ☐ NO ■ YES Carbon Monoxide Detection: ■ NO ☐ YES
Fire Alarm: ■ NO ☐ YES

K. LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A010

☐ N/A Fire and/or smoke rated wall locations (Chapter 7)
☐ N/A Exterior wall opening area with respect to distance to assumed property lines (705.8)
■ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
■ Exit accessy travel distances (1017)
■ Common path of travel distances (1006.2.1 & 1006.3.2(1))
■ Maximum calculated occupant load capacity each exit door can accommodated based on egress width (1005.3)
☐ N/A A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
■ Location of doors with panic hardware (1010.1.10)
☐ N/A Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ N/A Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ N/A The square footage of each smoke compartment for Occupancy Classification I-2 (407.4)
■ Note any code exceptions or table notes that may have been utilized regarding the items above
■ Assumed and real property line locations
■ Occupant loads for each area
■ Dead end lengths (1020.4)
■ Clear exit widths for each exit door
■ Actual occupant load for each exit door
☐ N/A Location of doors equipped with hold-open devices
☐ N/A Location of emergency escape windows (1030)
■ The square footage of each fire area (202)

L. ACCESSIBLE DWELLING UNITS AND SLEEPING UNITS

ACCESSIBLE DWELLING UNITS (1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NA	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

M. ACCESSIBLE PARKING

ACCESSIBLE PARKING (1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
.	**36**	**43**	.	.	.	**6**
.	.	.	.	.	.	.
TOTAL	**36**	**43**	.	.	.	**6**

N. PLUMBING FIXTURE REQUIREMENTS

(TABLE 2902.1) **Total Required / Total Provided**

OCCUPANCY USE GROUP AND/OR SPACE DESIGNATION	WATERCLOSETS MALE	WATERCLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWER S/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
BUSINESS	**3/3**	**3/3**	**0/0**	**2/3**	**2/3**	**0/0**	**1/1**	**1/1**
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	.	.	.	.	.	.	.	.
TOTAL	**3/3**	**3/3**	**0/0**	**2/3**	**2/3**	**0/0**	**1/1**	**1/1**

O. SPECIAL APPROVALS

SPECIAL APPROVAL: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc. , describe below)
.
.
.

SCHEDULE OF SPECIAL INSPECTIONS ■ **No special inspections required for this project** ☐ **Special inspections required**

The following sheets comprise the required schedule of Special Inspections for this project:
The construction divisions which require special inspections for this project are as follows:

☐ **IT-1 Verification of Soils**
☐ **IT-2 Excavation and Fill**
☐ **IT-3 Piling and Drilling Piers**
☐ **IT-4 Modular Retaining Walls**
☐ **IT-5 Reinforced Concrete**
☐ **IT-6 Post Tension Slab**
☐ **IT-7 Pre-cast Concrete Erection**
☐ **IT-8 Pre-stressed Concrete**
☐ **IT-9 Inspection of Pre-Cast Fabricators**
☐ **IT-10 Inspection of Structural Steel Fabricators**
☐ **IT-11 Structural Masonry**
☐ **IT-12 Welding**
☐ **IT-13 High Strength Bolts & Steel Framing Insp.**
☐ **IT-14 Sprayed Fire-Resistance Materials**
☐ **IT-15 Exterior Insulation and Finish system**
☐ **IT-16 Seismic Resistance**
☐ **IT-17 Smoke Control**
☐ **IT-18 Detention Basin**
☐ **IT-19 Special Cases**

CHAPTER 17 Specific Special Inspetions: .

P. ENERGY SUMMARY

BUILDING ENVELOPE:
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs. allowable annual energy cost budget.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE ☐ **NO** ☐ **YES**

CLIMATE ZONE: (North Carolina Energy Conservation Code NCECC 301.1) ■ **3A** ☐ **4A** ☐ **5A**

METHOD OF COMPLIANCE: ☐ **Prescriptive** (ASHRAE 90.1) ■ **Prescriptive** ☐ **No change to Building Envelope**
☐ **Performance** (ASHRAE 90.1) ☐ **Performance**

THERMAL ENVELOPE: (NCECC Chapter 4 and or 5)

ROOF/CEILING ASSEMBLY (each assembly) Code Allowable Max. or Min.
Description of assembly **TPO sinlg ply membrane roofing, 1/4" coverboard, 5" min rigid roof insulation over metal deck**
U-Value of total assembly **U-0.039 max**
R-Value of insulation **R-38 min**
Skylights in each assembly **N/A**
U-Value of skylight **N/A**
total square footage of skylights in each assembly **N/A**

EXTERIOR WALLS (each assembly)
Description of assembly **5/8" gypsum board, 6" cold formed metal framing, and structurally insulated sheathing**
U-Value of total assembly **U-0.064 max**
R-Value of insulation **R-13 + R-7.5ci min**
Openings (windows or doors with glazing) .
U-Value of assembly **curtainwall/storefront: U-45 max** **entrance door: U-77 max**
shading coefficient **SHGC: 0.25**
projection factor (PF) **<0.25**
Door R-Value **opaque doors: U-0.70 max**

WALLS BELOW GRADE (each assembly)
Description of assembly **N/A**
U-Value of total assembly **N/A**
R-Value of insulation **N/A**

FLOORS OVER UNCONDITIONED SPACE (each assembly)
Description of assembly **N/A**
U-Value of total assembly **N/A**
R-Value of insulation **N/A**

FLOORS SLAB ON GRADE
Description of assembly **reinf. concrete on slab, on vapor barrier, on 4" compacted stone**
U-Value of total assembly **F-0.730**
R-Value of insulation **R-7.5ci @ slab perimeter**
Horizontal/vertical requirement **N/A**
slab heated **N/A**

Q. STRUCTURAL DESIGN

LOCATED ON STRUCTURAL SHEET: ☐ **NO** ☐ **YES** REFER TO SHEET NUMBER: .

R. MECHANICAL SUMMARY (NCECC 403)

LOCATED ON MECHANICAL SHEET: ☐ **NO** ■ **YES** REFER TO SHEET NUMBER: **M001**

S. ELECTRICAL SUMMARY (NCECC 405)

LOCATED ON ELECTRICAL SHEET: ☐ **NO** ■ **YES** REFER TO SHEET NUMBER: **E500**

.

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10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

100% CONSTRUCTION DOCUMENTS

BUILDING CODE SUMMARY

ISSUE DATE 10/28/2022
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PROJECT NUMBER 21-025

A002

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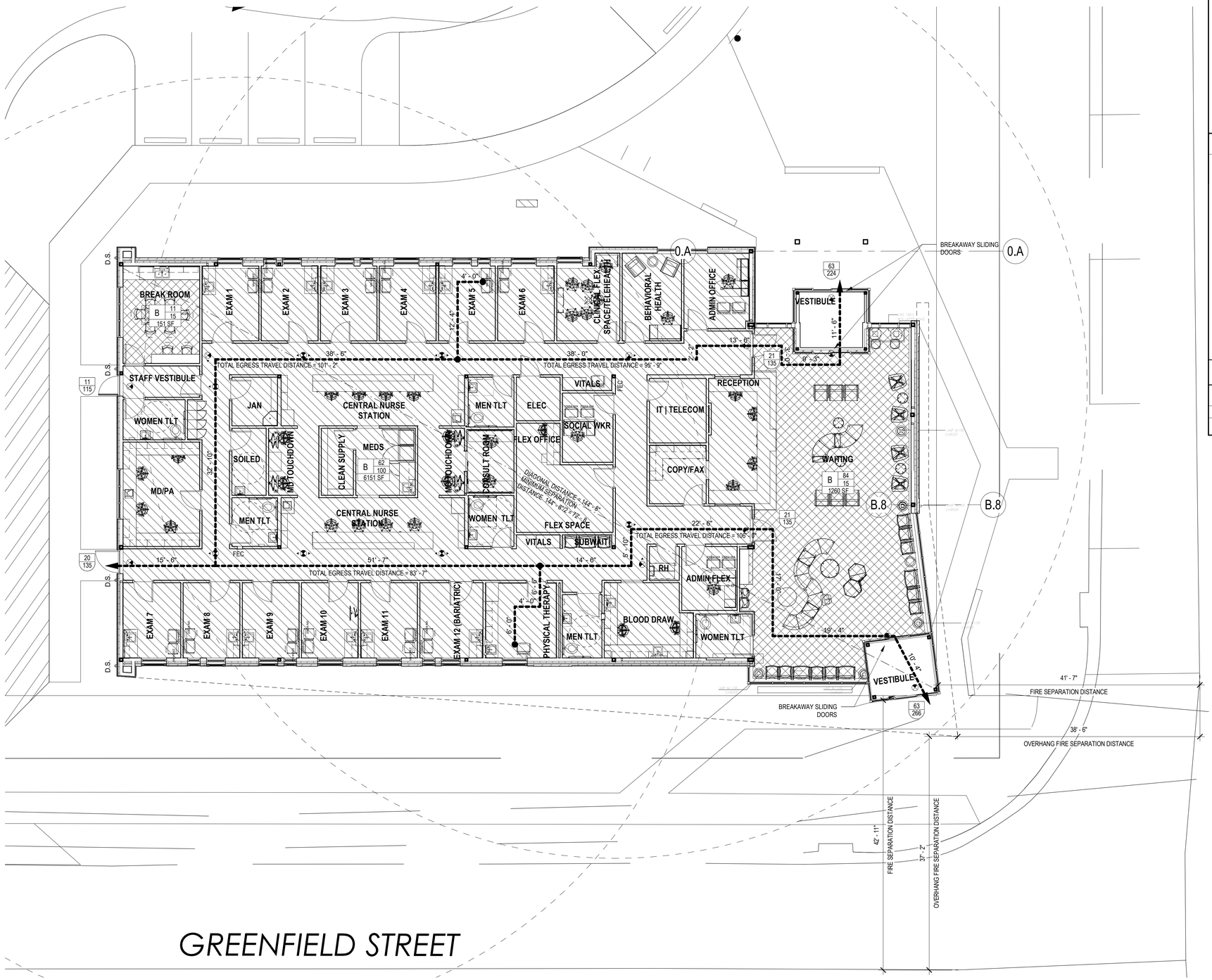

1 A010 **FIRST FLOOR LIFE SAFETY PLAN**

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

LIFE SAFETY SYMBOL LEGEND

- PATH OF EGRESS
- OCCUPANCY
- NUMBER OF OCCUPANTS
- DENSITY PER PERSON
- AREA
- ACTUAL OCCUPANT LOAD
- ALLOWABLE OCCUPANT LOAD
- GROSS BUSINESS AREA
- ASSEMBLY AREA
- 1 HR RATED ASSEMBLY
- 2 HR RATED ASSEMBLY
- 3 HR RATED ASSEMBLY
- T-SHAPE TURNING SPACE WITHIN A 60" MIN. SQUARE
- TURNING RADIUS BETWEEN AISLES 48" MIN.
- TURNING RADIUS 60"MIN.
- FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- FVC — FIRE VALVE CABINET

GENERAL LIFE SAFETY NOTES

1. PROVIDE FIRE EXTINGUISHER CABINETS AS INDICATED ON PLANS. VERIFY FINAL LOCATIONS AS ACCEPTABLE WITH FIRE MARSHAL.
2. PROVIDE RATINGS AS INDICATED ON PLANS.
3. NEW FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT. REFER TO ELECTRICAL DRAWINGS FOR DETAILED INFORMATION.
4. EXIT SIGNAGE SYMBOL SHOWN ON THIS SHEET IS FOR GENERAL LOCATION AND COORDINATION PRUPOSES. CENTER SIGNAGE OVER DOORS UNLESS OTHERWISE NOTED.
5. SIGNAGE SHALL BE PROVIDED A T ALL AREAS AS FOLLOWS:

   A) AT ALL AREAS OF RESCUE ASSISTANCE
   B) AT MAIN CORRIDORS DIRECTING PUBLIC TO AREAS OF RESCUE ASSISTANCE. FINAL LOCATION TO BE DETERMINED BY ARCHITECT
   C) AT ALL RESTROOM FACILITIES, MECHANICAL, AND ELECTRICAL ROOMS

LIFE SAFETY KEYNOTES

Path of Travel Schedule	
Level	Path of Travel Distance

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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No.	Description	Date

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LIFE SAFETY PLAN

ISSUE DATE 10/28/2022
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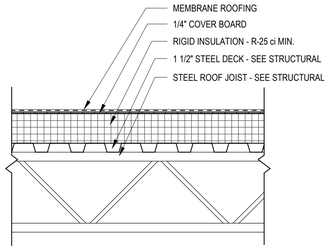
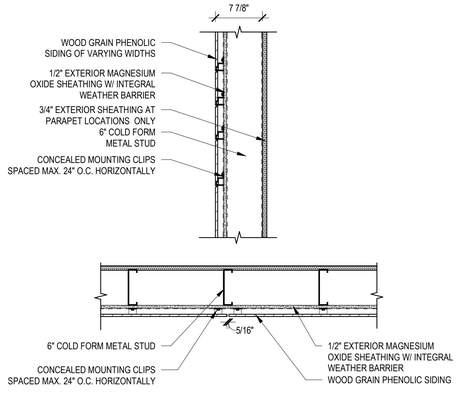


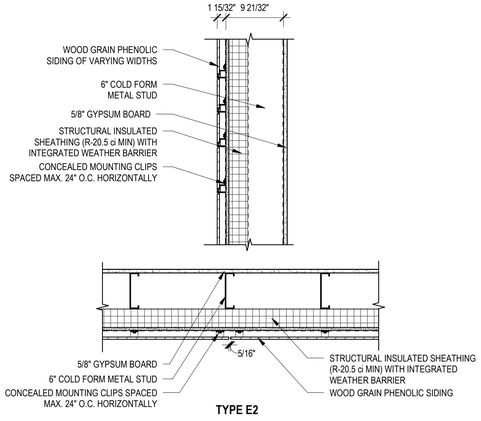
TYPE R1

ROOF TYPE	GENERAL NOTES
R1 SCALE 1" = 1'-0"	1. SEE ROOF PLAN FOR ROOF SLOPES



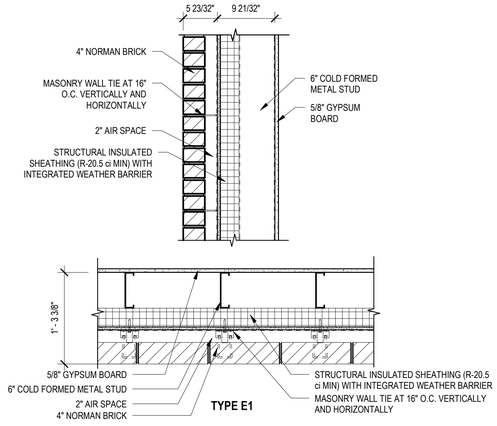
TYPE E3

EXTERIOR WALL TYPE - PHENOLIC CLADDING OUTSIDE ENVELOPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	SOUND INSUL	COMMENTS
E3 SCALE 1" = 1'-0"	E3D-0					



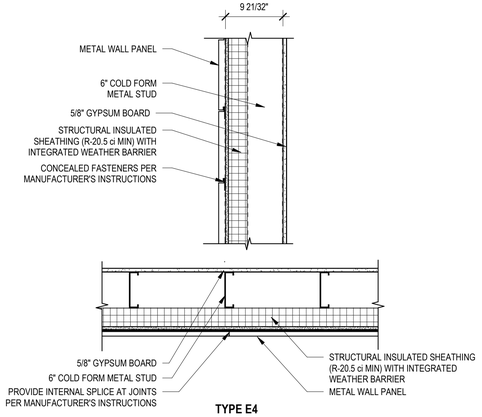
TYPE E2

EXTERIOR WALL TYPE - PHENOLIC CLADDING	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	SOUND INSUL	COMMENTS
E2 SCALE 1" = 1'-0"	E2D-0					



TYPE E1

EXTERIOR WALL TYPE - BRICK VENEER	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	SOUND INSUL	COMMENTS
E1 SCALE 1" = 1'-0"	E1D-0	6"				



TYPE E4

EXTERIOR WALL TYPE - METAL PANEL	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	SOUND INSUL	COMMENTS
E4 SCALE 1" = 1'-0"	E4D-0					

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10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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No.	Description	Date

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EXTERIOR WALL TYPES

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GYPSUM + PLY THRU CEILING PARTITION TYPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	INSULATION	COMMENTS
G4	G4-L0	3 5/8"	0 hr	48	3"	Gypsum - 4" above ceiling partition type, plywood to be installed on Physical Therapy room side of wall
	G4B0	3 5/8"	0 hr	48	3"	Gypsum - 4" above ceiling partition type, plywood to be installed on Physical Therapy room side of wall

SCALE 1" = 1'-0"

GYPSUM TO STRUCTURE PARTITION TYPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	INSULATION	COMMENTS
G2	G2-L0	3 5/8"	0 hr	48	3"	DRYWALL ON ONE SIDE.
	G2B-0	3 5/8"	0 hr	48	3"	TYPICAL WALLS AT ALL TOILET ROOMS, EXTEND ACOUSTIC BATT INTO EXTERIOR WALL STUDS WHERE APPLICABLE.
	G2D-0	6"	0 hr	48	3"	

SCALE 1" = 1'-0"

GYPSUM THRU CEILING PARTITION TYPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	INSULATION	COMMENTS
G1	G1B-0	3 5/8"	0 hr	48	3"	GYPSUM - 4" ABOVE CEILING PARTITION TYPE. EXTEND ACOUSTIC BATT INTO EXTERIOR WALL STUDS WHERE APPLICABLE.
	G1D-0	6"	0 hr	48	3"	Gypsum - 4" above ceiling partition type

SCALE 1" = 1'-0"

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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No.	Description	Date
1	Clarifications and Updates	10/28/22

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INTERIOR PARTITION TYPES

ISSUE DATE 10/28/2022
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STANDARD ABBREVIATIONS

A	
@	AT
A/C	AIR CONDITIONER / CONDITIONING
ACC	ACCESSIBLE
ACCSY	ACCESSORY
ACOUS INSUL	ACOUSTICAL INSULATION
ACOUS PNL	ACOUSTICAL PANELS
ACP	LAY-IN ACOUSTIC PANEL CEILING PADS
ACS DR	ACCESS DOOR
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE / ADJACENT
ADMIN	ADMINISTRATION
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AHR	ANCHOR
AHU	AIR HANDLING UNIT
ALNMT	ALIGNMENT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY
APPVD	APPROVED
APT	APARTMENT
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
ATC	ACOUSTICAL TILE CEILING
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	WALL-MOUNTED SOUND ABSORPTION PANEL
AWT	ACOUSTIC WALL TREATMENT
B	
BD	BOARD
BITUM	BITUMINOUS
BL	BASELINE
BL	BLACK
BLDG	BUILDING
BM	BEAM
BO	BLOWOFF
BOT	BOTTOM
BR	BEDROOM
BRG	BEARING
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
BW	BOTH WAYS
C	
C	CELSIUS
C	CHANNEL
C TO C	CENTER TO CENTER
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CEM PLAS	CEMENT PLASTER (STUCCO)
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CH	CHILLER
CH	COAT HOOK
CHBD	CHALKBOARD
CHFR	CHAMFER
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CL D	CLOTHES DRYER
CLG	CEILING
CLG HT	CEILING HEIGHT
CLL	CONTRACT LIMIT LINE
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CARBON MONOXIDE
CO	CASED OPENING
CO	CERTIFICATE OF OCCUPANCY
CO	CLEANOUT
CO	COMPANY
CO	CUTOUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONC FLR	SEALED CONCRETE FLOOR
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONT	CONTROLLER
CONV	CONVERT
CORR	CORRIDOR / CORRUGATED
CPT	CARPET
CR	CLOSET ROD
CR	CONTROL RELAY
CR	CONTROL ROOM
CR	CRASH RAIL
CS	CAST STONE
CS	CONTROL SWITCH
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	CENTER
CU	COPPER
CU FT	CUBIC FOOT
CU YD	CUBIC YARD
CUB	CUBICLE CURTAIN
CURT	CURTAIN
CW	CASEMENT WINDOW
CW	CHEMICAL WASTE LINE
CW	CLOCKWISE
CW	COLD WATER PIPING
D	
D	DEEP
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DMPF	DAMPPROOFING
DR	DOOR / DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	
E	EAST
EA	EACH
EF	EACH FACE
EG	VERTICAL END GUARDS
EHD	ELECTRIC HAND DRYER
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	ELECTROMAGNETIC
EM	EXPANDED METAL
EMER	EMERGENCY
ENCL	ENCLOSED / ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EOS	EDGE OF SLAB
EPB	ELECTRIC PANEL BOARD
EQ	EQUAL(LY)
EQUIP	EQUIPMENT
ER	POURED EPOXY
ERF	POURED EPOXY FLOORING
ESCAL	ESCALATOR
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXF	EXTERIOR FINISH
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	
FA	FIRE ALARM
FAB	FABRIC
FAI	FRESH AIR INTAKE
FBRK	FIREBRICK
FCP	PREFABRICATED FABRIC CEILING PANEL
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FGL	FIBERGLASS
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FIN FLR	FINISHED FLOOR
FIN FLR	FINISH FLOOR
FIXT	FIXTURE
FLASH	FLASH(ING)
FLR	FLOOR
FLRSK	FLOOR SINK
FLUOR	FLUORESCENT
FM	FACTORY MUTUAL
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
FP	FIREPROOF
FPL	FIREPLACE
FR	FRAME
FRG	FIBER REINFORCED GYPSUM
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FSP	FIRE STAND PIPE
FSTNR	FASTENER
FTG	FOOTING
FURG	FURRING
FUT	FUTURE
FWC	FABRIC WALL COVER
FWP	NON-ACOUSTIC STRETCHED FABRIC PANEL WALL INSTALATION
G	
G	GROUND
GA	GAGE
GALV	GALVANIZE(D)
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GDISP	GARBAGE DISPOSAL
GEN	GENERAL
GFP	GFRP OR GFRG FREESTANDING PANEL
GFRG	GLASS FIBER REINFORCED GYPSUM
GFRP	GLASS FIBER REINFORCED POLYMER
GL	GLASS / GLAZING
GL BLK	GLASS BLOCK
GLT	GLASS MOSIAC TILE
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GPM	GALLONS PER MINUTE
GR	GROSS
GR LN	GRADE LINE
GRAN	GRANITE
GT	GREASE TRAP
GT	GROSS TON
GT	GROUT
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	
H	HIGH
HC	HOLLOW CORE
HCP	HANDICAPPED
HD	HEAVY DUTY
HD	HAND DRYER
HDBD	HARDBOARD
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HDWL	HEADWALL
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HEAT PUMP
HP	HIGH PRESSURE
HP	HORSEPOWER
HR	HAND RAIL
HS	HAND SINK
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HW	HOT WATER
HWP	HOT WATER PUMP
HYD	HYDRANT
I	
IC	IRONING CABINET
ID	INSIDE DIAMETER
IN	INCH / INCHES
INCL	INCLUDE(D) / INCLUDING
INSUL	INSULATE / INSULATION
INT	INTERIOR
INV	INVERT
ITS	INTERTEK TESTING SERVICES
J	
J-BOX	JUNCTION BOX
JAN CLO	JANITOR'S CLOSET
JS	JANITOR'S SINK
K	
KIT	KITCHEN
L	
L	ANGLE
L	LITER
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LB(S)	POUND(S)
LC	LINEN CLOSET
LF	LINEAR FOOT (FEET)
LH	LEFT HAND
LIB	LIBRARY
LINO	LINOLEUM
LKR	LOCKER
LNO	LINOLEUM
LPT	LOW POINT
LT	LIGHT
LTF	LINOLEUM TILE FLOORING
LTWT	LIGHT WEIGHT
LVR	LOUVER
M	
m	METER
MACH	MACHINE
MAT	WALK-OFF MAT
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MB	MAIL BOX
MB	MIXING BOX
MBH	MOP/BROOM HOLDER
MC	MEDICINE CABINET
MCP	ACOUSTIC LAY-IN METAL CEILING PADS
ME	MECHANICAL ENGINEER
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MH	MANHOLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MKR BD	MARKER BOARD
MLDG	MOULDING
mm	MILLIMETER
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MTL	METAL
MTS	METAL TRANSITION STRIP
MULL	MULLION
MVBL	MOVABLE
MW	MICROWAVE
N	
N	NORTH
NA	NOT AVAILABLE / APPLICABLE
NAT	NATURAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFF	OFFICE
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
P	
PAR	PARALLEL
PAR	PARAPET
PART	PARTIAL
PAT	PATTERN
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLAS	PLASTER
PLYWD	PLYWOOD
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PRE-FINISHED
PRF	POLYURETHANE SPORTS FLOORING
PROP	PROPERTY
PRST	PRESSURE TREATED
PS	POURED SEALANT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT(ED)
PT/E	EPOXY PAINT
PT/F	FLAT PAINT
PT/HG	HIGH GLOSS PAINT
PT/SG	SEMIGLOSS PAINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PV	PAVED
PVC	POLYVINYL CHLORIDE
PVG	PAVING
Q	
Q	HEAT TRANSFER
Q	RATE OF FLOW
QT	QUARRY TILE
QTY	QUANTITY
QZF	QUARTZ FLOORING
QZR	QUARTZ RESIN
QZT	QUARTZ TILE
R	
R	RISER
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE
REF	REFRIGERATOR
REFL	REFLECTED
REG	REGISTER
REINF	REINFORCE(D)
REQ	REQUIRED
RESIL	RESILIENT
REST	RESTROOM
RET	RETURN
REV	REVISE / REVISION
RF	RESILIENT FLOORING
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RAILROAD
RR	ROLL ROOFING
RS	RAPID START
RS	ROUGH SAWN
RS	RUBBER SHEET
RSF	RUBBER SHEET FLOORING
RST	REINFORCING STEEL
RT	RIGHT
RTF	RUBBER TILE FLOORING
RTS	RUBBER TRANSITION STRIP
RWD	REDWOOD
RWL	RAIN WATER LEADER
S	
S	SOUTH
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FEET
SGL	SINGLE
SH	SINGLE HUNG
SHR	SHOWER
SHR HD	SHOWER HEAD
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SL	SEA LEVEL
SL	SPOT LIGHT
SLDG	SLIDING
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SPC	SUSPENDED PLASTER CEILING
SPEC	SPECIFY / SPECIFICATION
SPH	SOLID PHENOLIC POLYMER (TRESPA)
SPKR	SPEAKER
SPR	SOLID POLYMER RESIN (3FORM)
SQ	SQUARE
SQIN	SQUARE INCH(ES)
SSP	SOLID SURFACE POLYMER (CORIAN)
SSPR	SOLID POLYMER (CORIAN) RUB RAIL
SST	STAINLESS STEEL
SSTR	STAINLESS STEEL RUB RAIL
ST	SINGLE THROW
ST	STAIRS
ST	STREET
ST	STAIN
STA	STATION
STD	STANDARD
STIF	STIFFENER
STON	STONE
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUH	SUSPENDED UNIT HEATER
SURF	SURFACE
SUSP	SUSPENDED
SVP	VINYL SOLID PANEL (ACROVYN)
SW	SWITCH
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/S	TUB / SHOWER
TB	TOWEL BAR
TC	TERRA COTTA
TCZ	CEMENTITIOUS TERRAZZO
TEL	TELEPHONE
TEMP	TEMPERATURE
TEMP	TEMPORARY
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TK BD	TACK BOARD
TKP	TACKABLE PANELING
TOC	TOP OF CONCRETE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TR	ACCENT RAIL
TRTD	TREATED
TRZ	INTERIOR POURED EPOXY RESIN TERRAZO
TV	TELEVISION
TYP	TYPICAL
U	
UC	UNDERCUT
UGND	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	
V	VOLT
VAC	VACUUM
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VOL	VOLUME
VP	VACUUM PUMP
VP	VANISHING POINT
VP	VAPOR PRESSURE
VP	VENEER PLASTER
VPC	VENEER PLASTIC CEILING/SOFFIT
VR	VAPOR RETARDER
VRR	VINYL (ACROVYN) RAIL
VS	VENT STACK
VS	VOLUMETRIC SWITCH
VS	SHEET VINYL
VT	SOLID VINYL TILE
VTR	VENT THRU ROOF
VTS	VINYL TRANSITION STRIP
VWC	VINYL WALLCOVERING
W	
W	WIDE
W	WEST
W / W	WALL TO WALL
W/	WITH
W/D	WASHER / DRYER
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WC	WALLCOVERING
WD	WOOD
WDH	WOOD HAND RAIL
WDM	WOOD WALL MOULDINGS
WDP	WOOD PANELING
WDR	WOOD CHAIR, CRASH, OR HAND RAIL
WDS	ATHLETIC/ACOUSTIC ISOLATED WOOD FLOORING
WDSHV	WOOD SHELVING
WDT	WOOD TILE OR PARQUET FLOORING
WDV	WOOD VENEER
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRED GLASS
WH	WALL HUNG
WI	WROUGHT IRON
WP	WATERPROOF
WP	WORKING POINT
WPM	WATERPROOF MEMBRANE
WR	WEATHER RESISTANT
WR	WIRE ROPE
WRP	WATER REPELLENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X	
XPS	EXTRUDED POLYSTYRENE
Y	
YD	YARD

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

100% CONSTRUCTION DOCUMENTS

STANDARD INFORMATION

ISSUE DATE 10/28/2022
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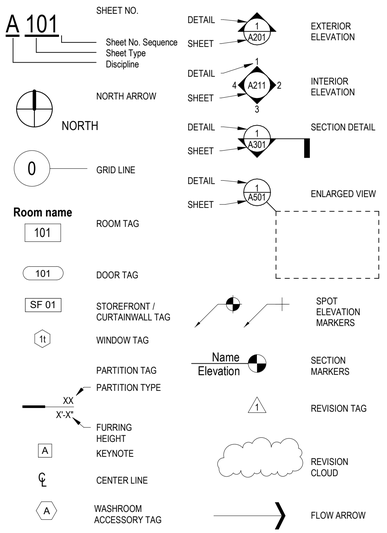
SHEET BY Author
PROJECT NUMBER 21-025

A050

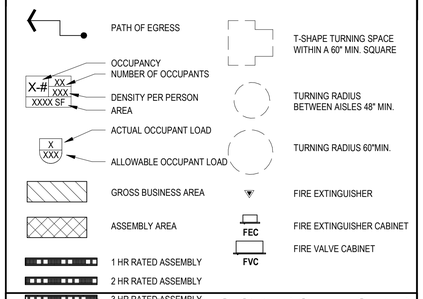
10/28/2022 5:10:12 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt

GENERAL SYMBOL LEGEND

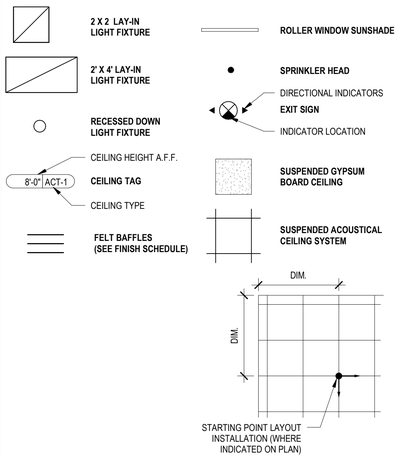
SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS



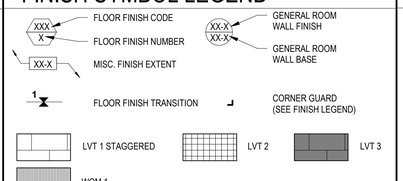
LIFE SAFETY SYMBOL LEGEND



REFLECTED CEILING SYMBOL LEGEND



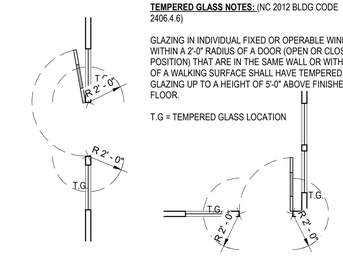
FINISH SYMBOL LEGEND



FLOOR FINISH TRANSITION LEGEND

1. **WALK OFF MAT TO LVT** TO RECEIVE JOHNSONITE EG-XX-G TRANSITION STRIP #29 MOON ROCK
2. **LVT TO CARPET** TO RECEIVE JOHNSONITE EG-XX-G TRANSITION STRIP #29 MOON ROCK
3. **LVT TO RUBBER FLOOR** TO RECIEVE JOHNSONITE RRS-XX-C TRANSITION STRIP #29 MOON ROCK

TEMPERED GLAZING DIAGRAM

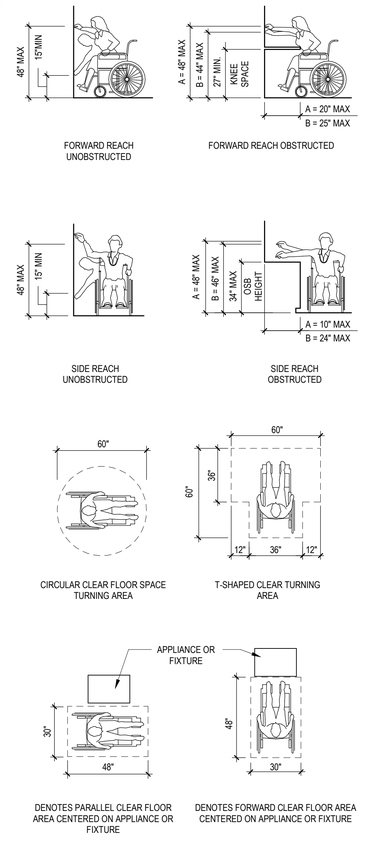


TEMPERED GLASS NOTES: (NC 2012 BLDG CODE 2406.4.6)

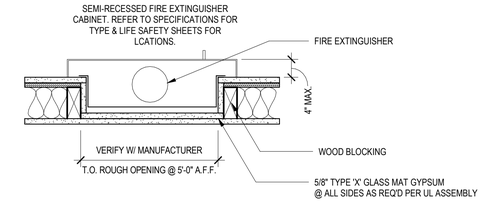
GLAZING IN INDIVIDUAL FIXED OR OPERABLE WINDOWS WITHIN A 2'-0" RADIUS OF A DOOR (OPEN OR CLOSED POSITION) THAT ARE IN THE SAME WALL OR WITHIN 3'-0" OF A WALKING SURFACE SHALL HAVE TEMPERED GLAZING UP TO A HEIGHT OF 5'-0" ABOVE FINISHED FLOOR.

T.G = TEMPERED GLASS LOCATION

ACCESSIBILITY REQUIREMENTS



TYPICAL RECESSED F.E. CABINET DETAIL



MAINTAIN THE INTEGRITY OF FIRE RATED CONSTRUCTION @ ALL EXTINGUISHER CABINETS

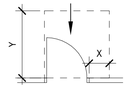
MATERIALS LEGEND

ALUMINUM	BATT INSULATION	WOOD BLOCKING
CONCRETE	PRECAST	WOOD SHIM
GLASS	GRAVEL	PEA GRAVEL
RIGID INSULATION	SAND	STONE
BRICK IN SECTION	WOOD - SOLID	
CONCRETE MASONRY UNIT	PLYWOOD	
EARTH	BRICK	
GYPSUM / PLASTER	ADHERED STONE MASONRY VENEER	
STEEL	ALUMINUM COMPOSITE PANEL	

DOOR APPROACH ACCESSIBILITY REQUIREMENTS

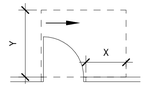
NOTE:
1. ALL DOORS SHALL COMPLY WITH THE CLEARANCES FOR APPROACHES AS INDICATED.
2. ERECT ALL DOOR FRAMES & ADJACENT WALLS TO CONFORM TO THE APPLICABLE PLAN CONFIGURATION.
3. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF DOOR FRAMES & ADJACENT WALLS.

PULL SIDE
FRONT APPROACHES



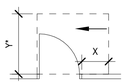
X=18" MIN. 24" preferred
Y=60" MIN.

PULL SIDE
HINGE SIDE APPROACHES



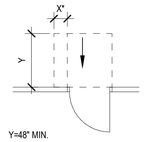
X=36" min if Y =60"
X=42" min if Y=54"

PULL SIDE
LATCH SIDE APPROACHES



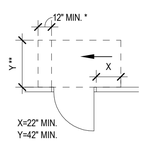
X=24" MIN.
Y=48" MIN.
*54" MIN. if door has closer.

PUSH SIDE
FRONT APPROACHES



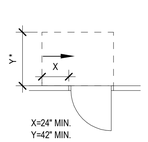
Y=48" MIN.
*12" MIN. if door has both latch and closer.

PUSH SIDE
HINGE SIDE APPROACHES



X=22" MIN.
Y=42" MIN.
* if door has both latch and closer
**48" MIN. if door has both a latch and closer.

PUSH SIDE
LATCH SIDE APPROACHES



X=24" MIN.
Y=48" MIN.
*48" MIN. if door has closer.

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

100% CONSTRUCTION DOCUMENTS

STANDARD INFORMATION

ISSUE DATE 10/28/2022
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-025

A051

10/28/2022 5:10:13 PM
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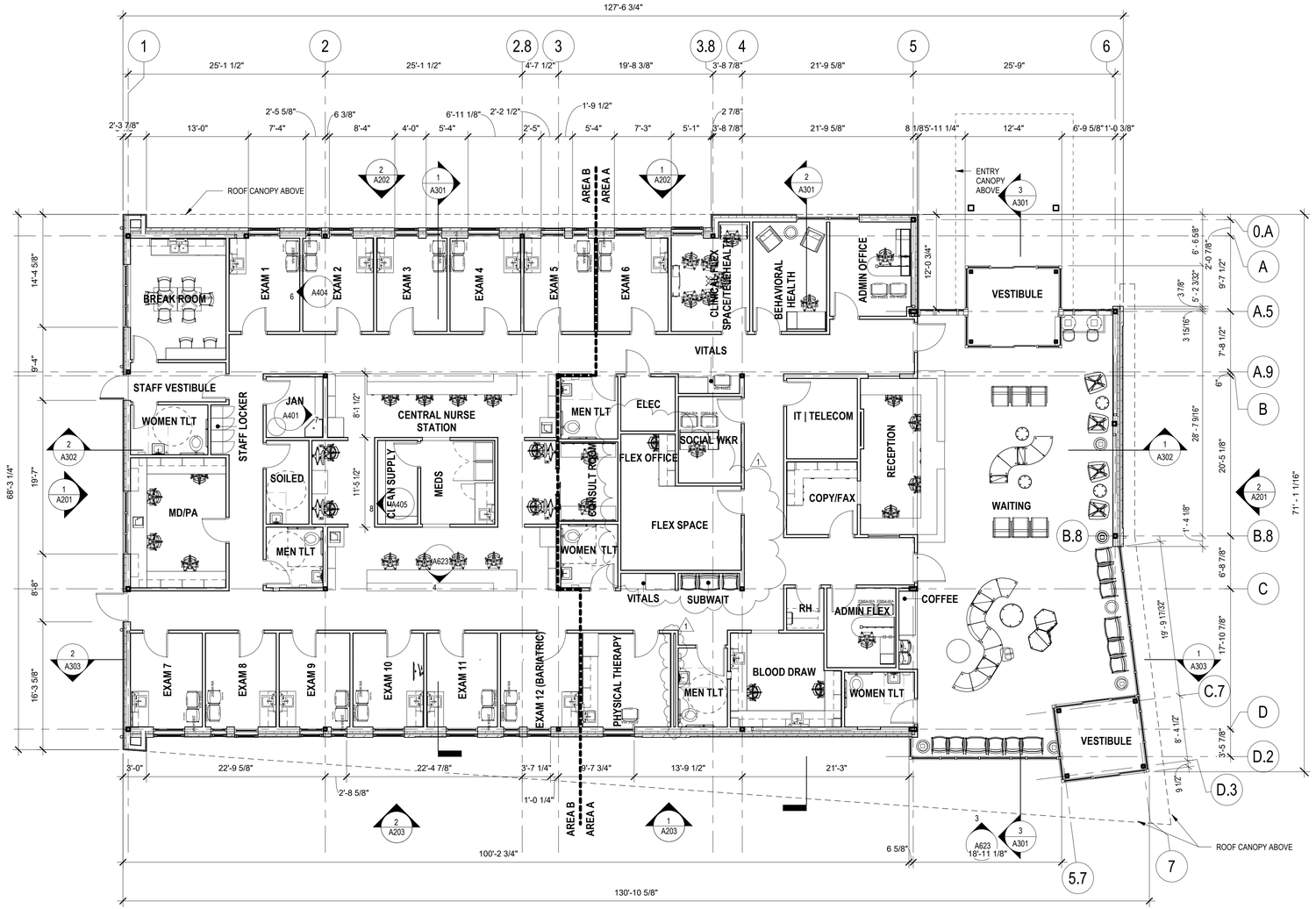

1 A101 **FIRST FLOOR PLAN**

SCALE: 1/8" = 1'-0" R.E. = 1/A201

GENERAL SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- A 101 — SHEET NO. — Sheet No. Sequence, Sheet Type, Discipline
- NORTH ARROW — NORTH
- 0 — GRID LINE
- Room name / 101 — ROOM TAG
- 101 — DOOR TAG
- SF 01 — STOREFRONT / CURTAINWALL TAG
- 1t — WINDOW TAG
- PARTITION TAG
- XX / X'-X" — PARTITION TYPE / FURRING HEIGHT
- A — KEYNOTE
- ℄ — CENTER LINE
- A — WASHROOM ACCESSORY TAG
- DETAIL / SHEET 1 / A201 — EXTERIOR ELEVATION
- DETAIL / SHEET 1 / 4 A211 2 / 3 — INTERIOR ELEVATION
- DETAIL / SHEET 1 / A301 — SECTION DETAIL
- DETAIL / SHEET 1 / A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — SECTION MARKERS
- 1 — REVISION TAG
- REVISION CLOUD
- FLOW ARROW

GENERAL NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

CONSTRUCTION NOTES

1. GC TO COORDINATE WITH VENDORS/INSTALLERS OF OWNER PROVIDED EQUIPMENT, FURNITURE, AND TELE-DATA ITEMS REGARDING DELIVERIES AND SCHEDULES.
2. REFER TO MILLWORK DETAILS AND COORDINATE WITH ELECTRICAL DRAWINGS FOR PLACEMENT OF ELECTRICAL OUTLETS.
3. ALL POWER AND DATA SYMBOLS ARE EXISTING TO REMAIN , U.N.O. AND ARE SHOWN FOR REFERENCE ONLY.
4. TYPICAL DIMENSIONS ARE TO FACE OF STUD PARTITION UNLESS OTHERWISE NOTED.

DOOR AND HARDWARE NOTES

1. REFER TO SHEET **A601** FOR DOOR SCHEDULE
2. NEW DOOR PANELS SHALL FIT EXISTING DOOR FRAMES, GC TO FIELD VERIFY DOOR SIZE.
3. DOOR UNDERCUTS SHALL BE KEPT TO A MINIMAL DIMENSION AND SHALL BE UNIFORM THROUGHOUT PROJECT, U.N.O.
4. INSTALLATION OF ALL DOORS AND HARDWARE SHALL MEET MINIMUM "ADA" REQUIREMENTS. IF ANY CONFLICTS ARISE, THE ITEM MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PLACING ORDER.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CUSTOM WOOD DOORS TO INCLUDE: DOOR, ALL HARDWARE AND SUPPORT.
6. ALL WOOD DOORS TO BE PLAIN SLICED CHERRY, SLIP MATCHED, STAIN COLOR - TO MATCH PL-1.

CONSTRUCTION KEYNOTES

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

OVERALL FLOOR PLAN

ISSUE DATE 10/28/2022
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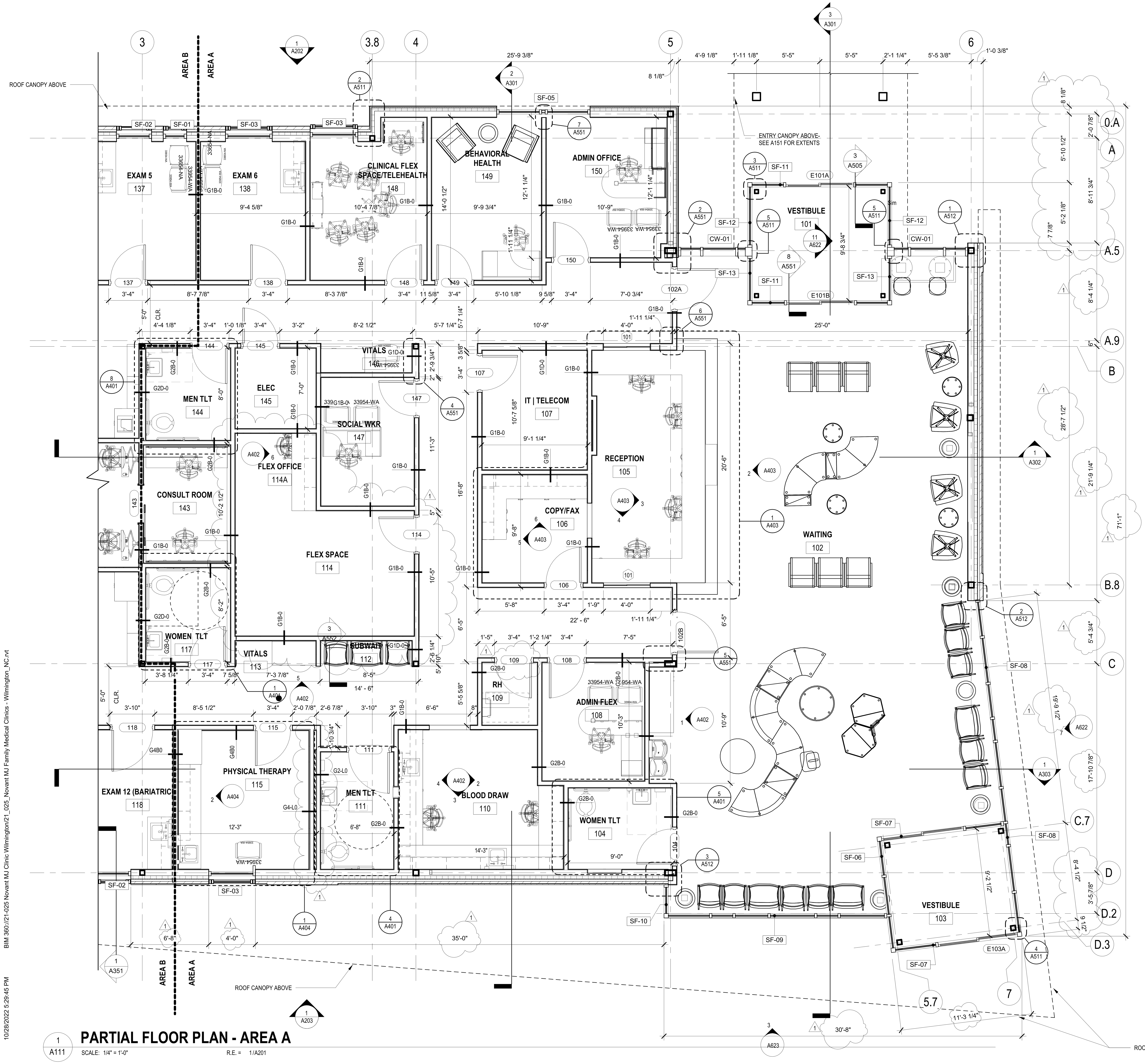
PROJECT NUMBER 21-025

A101

10/28/2022 5:29:43 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt



1 A111

PARTIAL FLOOR PLAN - AREA A

SCALE: 1/4" = 1'-0" R.E. = 1/A201

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10/28/2022 5:29:45 PM

GENERAL SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- A 101 — SHEET NO. (Sheet No. Sequence, Sheet Type, Discipline)
- NORTH ARROW — NORTH
- GRID LINE
- Room name 101 — ROOM TAG
- 101 — DOOR TAG
- SF 01 — STOREFRONT / CURTAINWALL TAG
- 1t — WINDOW TAG
- PARTITION TAG — PARTITION TYPE (XX), FURRING HEIGHT (X'-X")
- A — KEYNOTE
- CENTER LINE
- A — WASHROOM ACCESSORY TAG
- DETAIL / SHEET (1 / A201) — EXTERIOR ELEVATION
- DETAIL / SHEET (1, 2, 3, 4 / A211) — INTERIOR ELEVATION
- DETAIL / SHEET (1 / A301) — SECTION DETAIL
- DETAIL / SHEET (1 / A501) — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name Elevation — SECTION MARKERS
- 1 — REVISION TAG
- REVISION CLOUD
- FLOW ARROW

GENERAL NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

CONSTRUCTION NOTES

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2. REFER TO MILLWORK DETAILS AND COORDINATE WITH ELECTRICAL DRAWINGS FOR PLACEMENT OF ELECTRICAL OUTLETS.
3. ALL POWER AND DATA SYMBOLS ARE EXISTING TO REMAIN , U.N.O. AND ARE SHOWN FOR REFERENCE ONLY.
4. TYPICAL DIMENSIONS ARE TO FACE OF STUD PARTITION UNLESS OTHERWISE NOTED.

DOOR AND HARDWARE NOTES

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CONSTRUCTION KEYNOTES

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

PARTIAL FLOOR PLAN - AREA A

ISSUE DATE 10/28/2022
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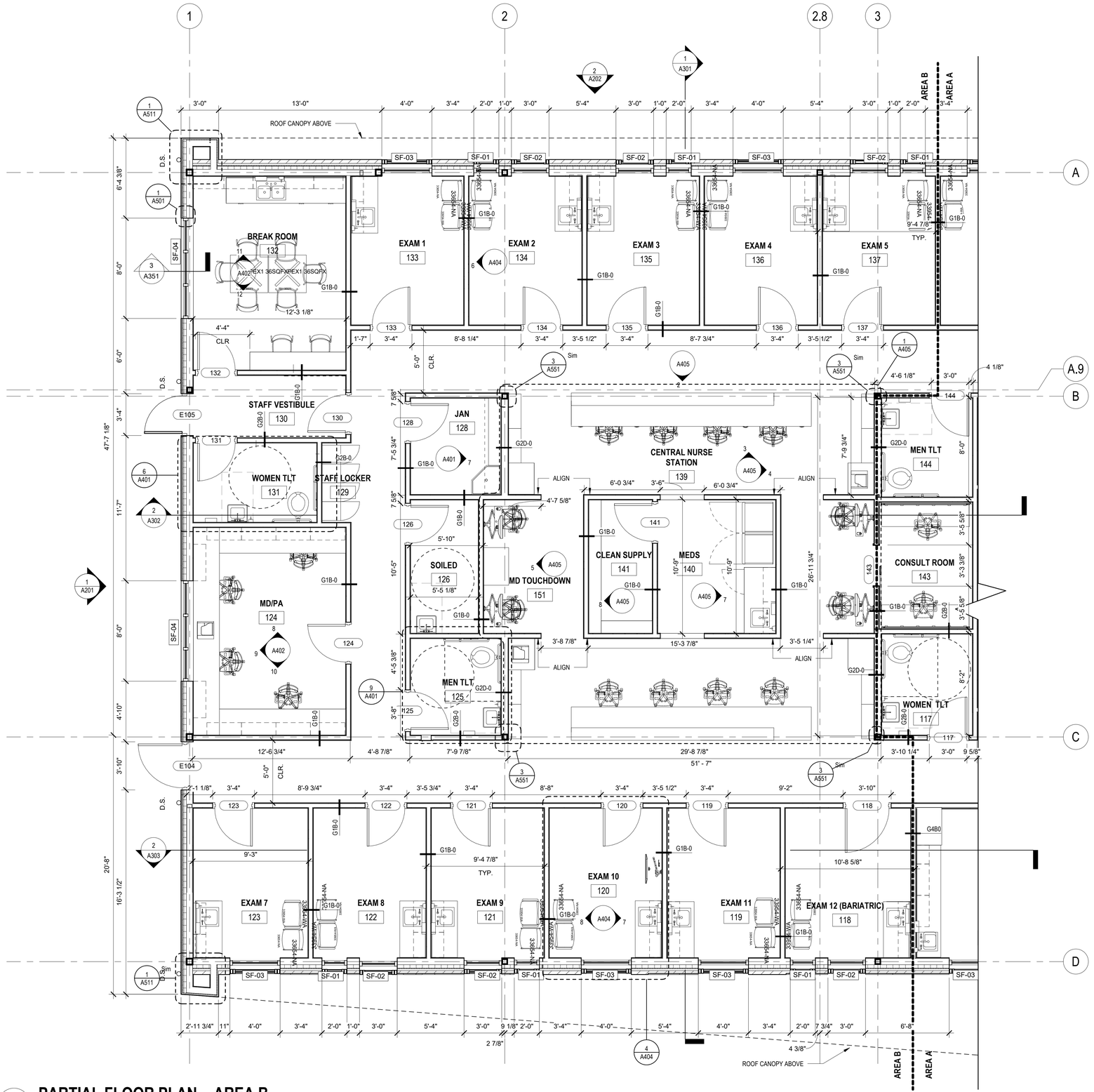
PROJECT NUMBER 21-025

A111



1 A112 **PARTIAL FLOOR PLAN - AREA B**

SCALE: 1/4" = 1'-0" R.E. = 1/A201

2 A203

GENERAL SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- A 101 — Sheet No. Sequence / Sheet Type / Discipline — SHEET NO.
- NORTH ARROW — NORTH
- 0 — GRID LINE
- Room name / 101 — ROOM TAG
- 101 — DOOR TAG
- SF 01 — STOREFRONT / CURTAINWALL TAG
- 1t — WINDOW TAG
- PARTITION TAG / PARTITION TYPE — XX / X'-X"
- FURRING HEIGHT
- A — KEYNOTE
- ℄ — CENTER LINE
- A — WASHROOM ACCESSORY TAG
- DETAIL / SHEET 1 / A201 — EXTERIOR ELEVATION
- DETAIL / SHEET 4 / A211 / 2 / 3 — INTERIOR ELEVATION
- DETAIL / SHEET 1 / A301 — SECTION DETAIL
- DETAIL / SHEET 1 / A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — SECTION MARKERS
- 1 — REVISION TAG
- REVISION CLOUD
- FLOW ARROW

GENERAL NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

CONSTRUCTION NOTES

1. GC TO COORDINATE WITH VENDORS/INSTALLERS OF OWNER PROVIDED EQUIPMENT, FURNITURE, AND TELE-DATA ITEMS REGARDING DELIVERIES AND SCHEDULES.
2. REFER TO MILLWORK DETAILS AND COORDINATE WITH ELECTRICAL DRAWINGS FOR PLACEMENT OF ELECTRICAL OUTLETS.
3. ALL POWER AND DATA SYMBOLS ARE EXISTING TO REMAIN , U.N.O. AND ARE SHOWN FOR REFERENCE ONLY.
4. TYPICAL DIMENSIONS ARE TO FACE OF STUD PARTITION UNLESS OTHERWISE NOTED.

DOOR AND HARDWARE NOTES

1. REFER TO SHEET **A601** FOR DOOR SCHEDULE
2. NEW DOOR PANELS SHALL FIT EXISTING DOOR FRAMES, GC TO FIELD VERIFY DOOR SIZE.
3. DOOR UNDERCUTS SHALL BE KEPT TO A MINIMAL DIMENSION AND SHALL BE UNIFORM THROUGHOUT PROJECT, U.N.O.
4. INSTALLATION OF ALL DOORS AND HARDWARE SHALL MEET MINIMUM "ADA" REQUIREMENTS. IF ANY CONFLICTS ARISE, THE ITEM MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PLACING ORDER.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CUSTOM WOOD DOORS TO INCLUDE: DOOR, ALL HARDWARE AND SUPPORT.
6. ALL WOOD DOORS TO BE PLAIN SLICED CHERRY, SLIP MATCHED, STAIN COLOR - TO MATCH PL-1.

CONSTRUCTION KEYNOTES

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

100% CONSTRUCTION DOCUMENTS

PARTIAL FLOOR PLAN - AREA B

ISSUE DATE 10/28/2022
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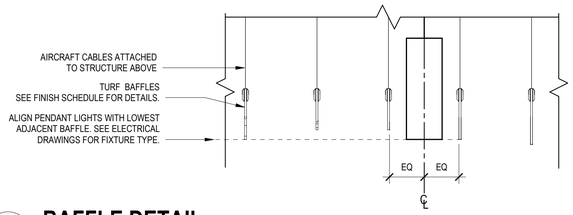
PROJECT NUMBER 21-025

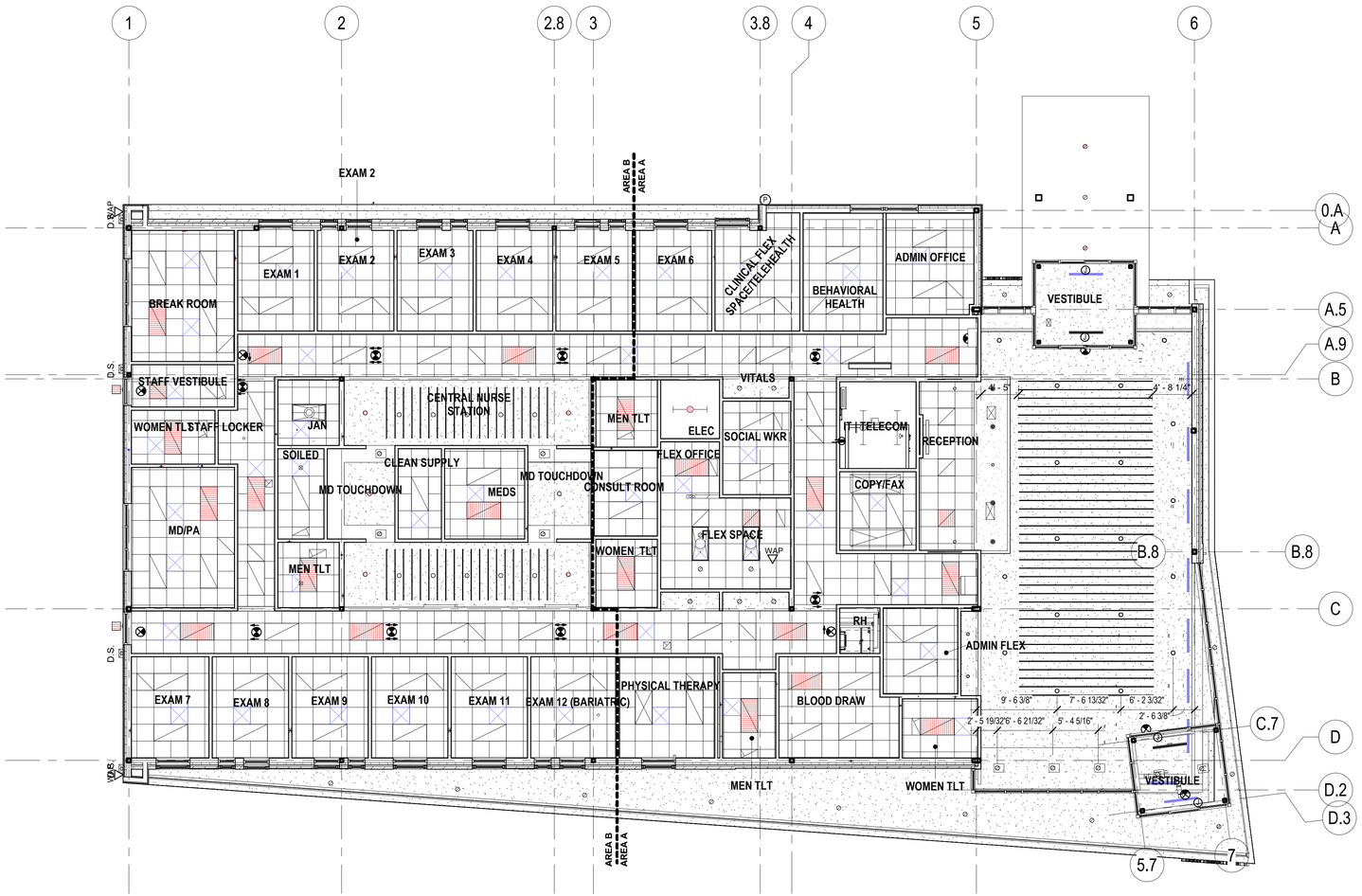
A112

10/28/2022 5:38:06 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt



2 / A121 **BAFFLE DETAIL**

SCALE: 1" = 1'-0" R.E. = 1/A131

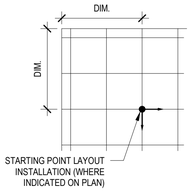


1 / A121 **FIRST FLOOR REFLECTED CEILING PLAN**

SCALE: 1/8" = 1'-0" R.E. = 1/A201

REFLECTED CEILING SYMBOL LEGEND

- 2 X 2 LAY-IN LIGHT FIXTURE
- 2' X 4' LAY-IN LIGHT FIXTURE
- RECESSED DOWN LIGHT FIXTURE
- CEILING HEIGHT A.F.F.
- 8'-0" ACT-1 — CEILING TAG
- CEILING TYPE
- FELT BAFFLES (SEE FINISH SCHEDULE)
- ROLLER WINDOW SUNSHADE
- SPRINKLER HEAD
- DIRECTIONAL INDICATORS
- EXIT SIGN
- INDICATOR LOCATION
- SUSPENDED GYPSUM BOARD CEILING
- SUSPENDED ACOUSTICAL CEILING SYSTEM



GENERAL REFLECTED CEILING NOTES

1. ARCHITECTURAL CEILING PLANS SHALL GOVERN FOR LOCATIONS OF ALL DEVICES AS SHOWN. ENGINEER DOCUMENTS SHALL PREVAIL ONLY IN CASE OF SCOPE OF WORK AND ELEMENTS OCCURRING ABOVE CEILING. DISCREPANCIES (IF ANY) BETWEEN ARCHITECTURAL AND ENGINEERING DOCUMENTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION AT TIME OF BID. ANY COSTS ASSOCIATED WITH SPECIFICATION DISCREPANCIES NOT BROUGHT TO THE ARCHITECT'S ATTENTION IN WRITING SHALL BE THE SOLE RESPONSIBILITY OF THE SUBCONTRACTOR.
2. IF CEILING DIFFUSER, LIGHT FIXTURES OR OTHER ELEMENTS ON OR ABOVE THE CEILING SHALL NOT BE LOCATED AS SHOWN ON THE DRAWINGS, SUCH INTERFERENCE SHALL BE REPORTED IMMEDIATELY TO ARCHITECT FOR RELOCATION.
3. GC TO SUBMIT CUT SHEETS FOR ALL SPECIFIED FIXTURES TO ARCHITECT FOR REVIEW FOR COMPLIANCE WITH DESIGN INTENT.
4. ACOUSTICAL CEILING PANELS SHALL BE INSTALLED SO GRAIN LINES OF TILE ARE RUNNING IN SAME DIRECTION ON ALL CEILINGS.
5. ACOUSTICAL CEILING CONTRACTOR SHALL MIX PANELS IN A UNIFORM MANNER TO ELIMINATE BANDING OR BATCHING.
6. ALL DOWN LIGHTS SHALL BE CENTERED IN MODULE OF THE TILE INDICATED U.N.O.
7. FOLLOWING COMPLETION OF ACOUSTICAL CEILING INSTALLATION, ALL JOINTS SHALL BE STRAIGHT AND TRUE TO LINE, WITH EXPOSED SURFACES FLUSH AND LEVEL.
8. ALL DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF FIXTURE.
9. ALL DOWNLIGHTS / SPRINKLER HEADS OR MISC. CEILING MOUNTED COMPONENTS SHALL BE CENTERED IN MODULE OF THE TILE INDICATED UNLESS OTHERWISE NOTED.
10. PROVIDE EMERGENCY CIRCUITS AS REQUIRED BY CODE. SEE ELECTRICAL DRAWINGS FOR CIRCUITRY OF EMERGENCY LIGHT FIXTURES.
11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL QUANTITY AND LOCATION OF ALL EMERGENCY DEVICES (INCLUDING BUT NOT LIMITED OT EXIT SIGNS, FIRE ALARMS, ETC.) WITH MUNICIPAL AGENCY HAVING JURISDICTION.
12. ACCESS PANELS REQUIRED IN ANY CONSTRUCTION WITHIN THIS PROJECT SHALL BE APPROVED IN WRITING BY ARCHITECT AS TO SPECIFIC LOCATION, FINISH, ETC.
13. GYP. BOARD CEILINGS SHALL BE 1/2" GYP. BOARD ON DRYWALL SUSPENSION SYSTEM SECURELY HUNG FROM STRUCTURE ABOVE UNLESS OTHERWISE NOTED. (DO NOT SUPPORT FRAMING FROM DUCTWORK, PIPES, CONDUIT, OR OTHER NON-STRUCTURAL ELEMENTS).
14. ALL MATERIALS PLACED IN CEILING SHALL HAVE A PLENUM RATING.
15. STENCIL ALL RATED WALLS ABOVE CEILING. PROTECT ALL OPENINGS AT 1 AND 2 HOUR RATED WALLS - STENCIL SHALL BE PLACED AT MAX 20'-0" INTERVALS.

REFLECTED CEILING KEYNOTES

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10.28.2022

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No.	Description	Date

100% CONSTRUCTION DOCUMENTS

OVERALL REFLECTED CEILING PLAN

ISSUE DATE 10/28/2022
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SHEET BY Author
PROJECT NUMBER 21-025

A121

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PARTIAL REFLECTED CEILING PLAN AREA A

1 A131 SCALE: 1/4" = 1'-0" R.E. = 1/A201

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
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No.	Description	Date
1	Clarifications and Updates	10/28/22

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PARTIAL REFLECTED CEILING PLAN- AREA A

ISSUE DATE 10/28/2022
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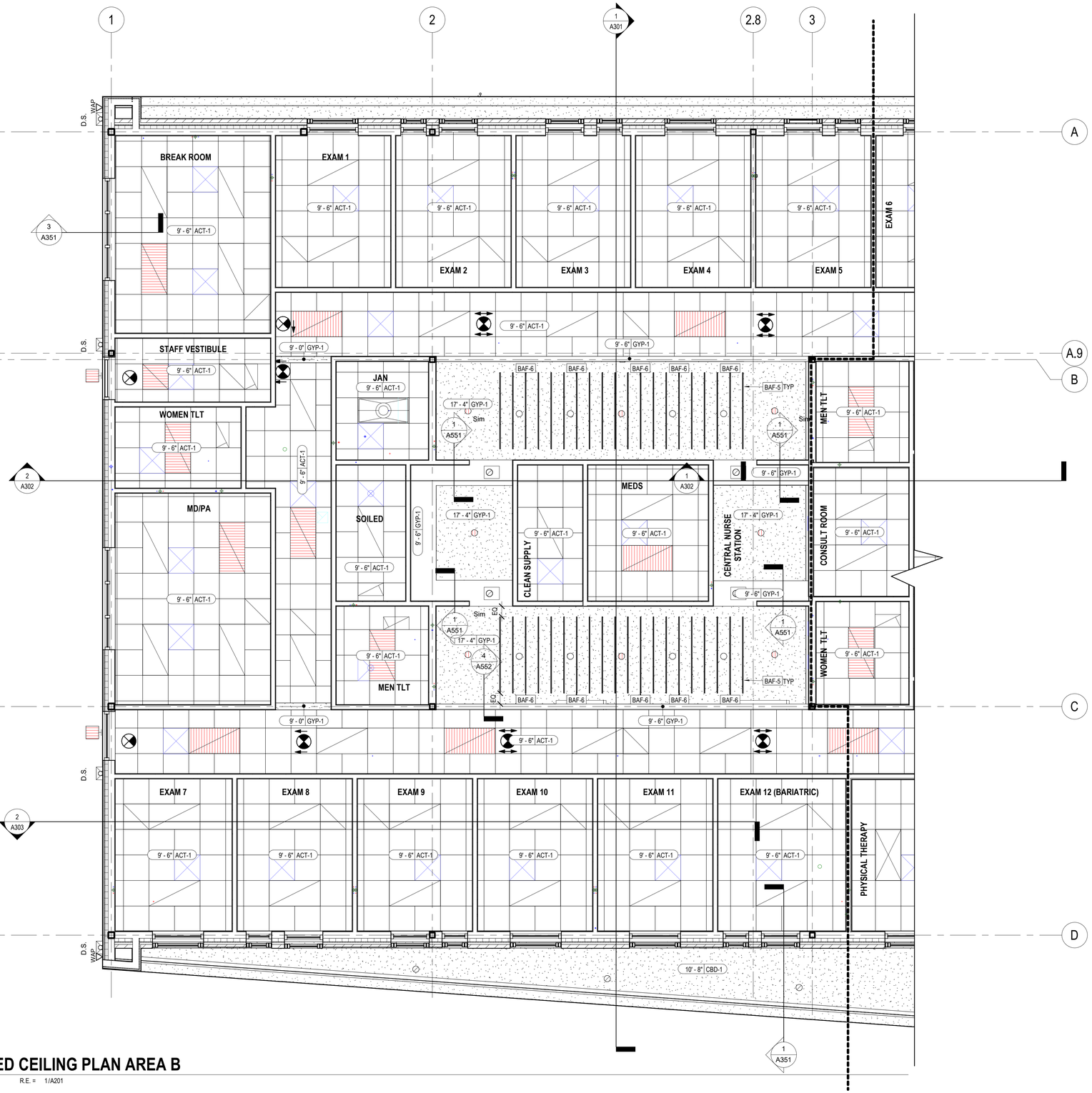
SHEET BY Author
PROJECT NUMBER 21-025

A131



1 A132 **PARTIAL REFLECTED CEILING PLAN AREA B**

SCALE: 1/4" = 1'-0" R.E. = 1 / A201

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ROOF AREA DRAINAGE CALCS

ASSUMPTIONS PER NC PLUMBING CODE TABLE 1106.2 AND FIGURE 1106.1:
1) 5" / HR RAINFALL
2) 4" ROUND DOWNSPOUT = 3,680 SF ROOF AREA

ROOF AREA 1 = 1852 SF
2 DOWNSPOUTS PROVIDED: 1852 SF < 7360 SF **OK**

ROOF AREA 2 = 8666 SF
4 DOWNSPOUTS PROVIDED: 8666 SF < 14720 SF **OK**

ROOF AREA 3 = 121 SF
1 DOWNSPOUTS PROVIDED: 121 SF < 3680 SF **OK**

ROOF AREA 2 CALCUALTED VALUE

ROOF AREA 1 SHEDS TO ROOF AREA 2. FOR DRAINAGE CALCULATIONS, SF OF ROOF AREA 2 IS INCLUSIVE OF BOTH ROOF AREAS 1 AND 2

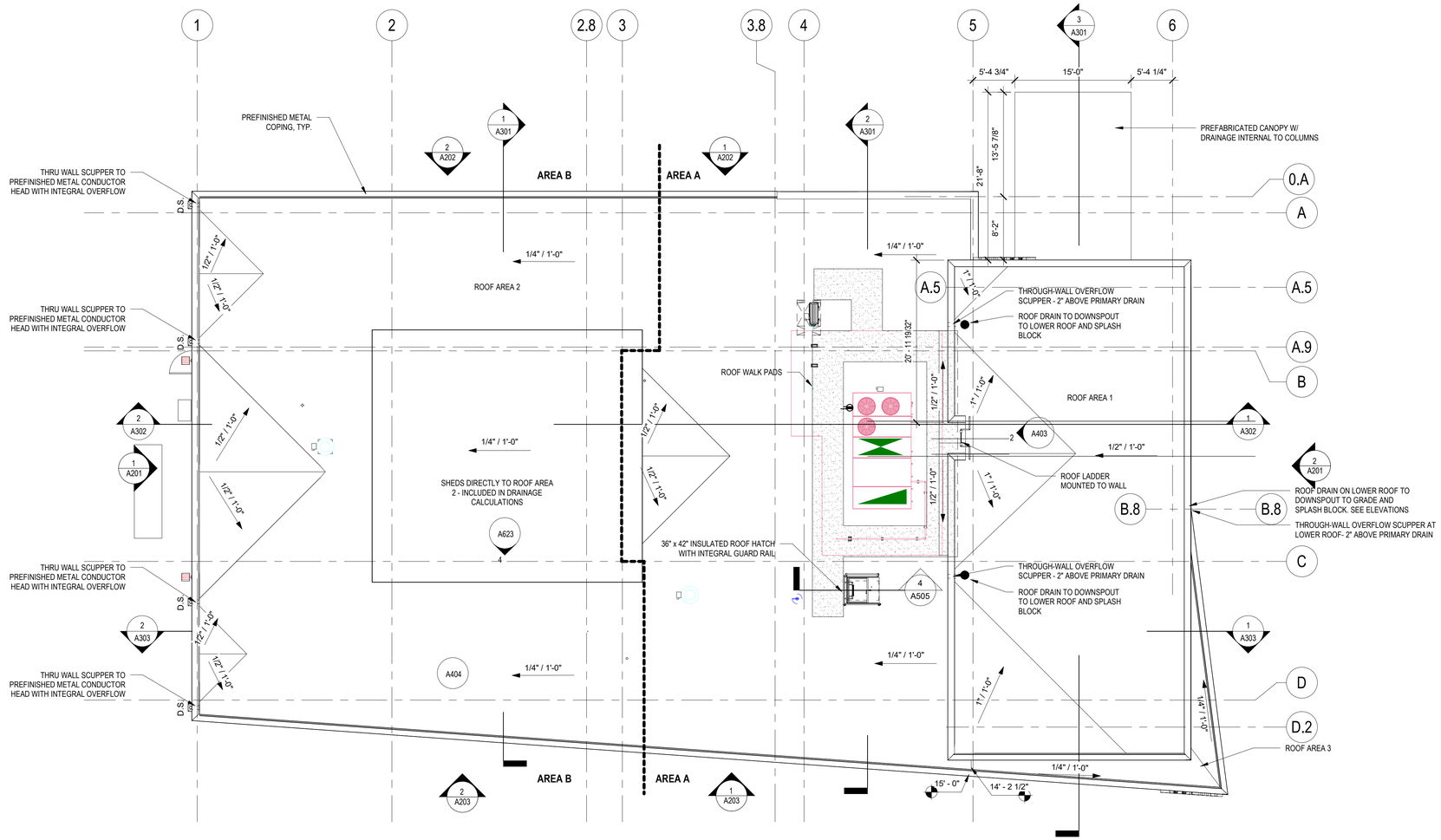
ACTUAL ROOF AREA 2 = 6814 SF
ROOF AREA 2 + ROOF AREA 1 = DRAINAGE AREA OF ROOF AREA 2
6814 SF + 1852 SF = 8666 SF

ROOF NOTES

1. INSTALL ALL ROOFING PRODUCTS PER MANUFACTURER STANDARD PROCEDURES AND DETAILS
2. SUBMIT SHOP DRAWINGS OF FINAL ROOF AND FLOOR TRUSS DESIGN TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ALL ROOF TRUSSES TO BE DESIGNED BY OTHERS.
3. THIS DRAWING SHOWS ARCHITECTS DESIGN INTENT ONLY. SEE SEALED ENGINEERED TRUSS SHOP DRAWINGS FOR FINAL DESIGN.
4. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL ROOF FRAMING AND DETAIL INFORMATION.
5. COORDINATE ALL DOWNSPOUT TIE-INS WITH CIVIL DRAWINGS. PROVIDE SPLASH BLOCKS FOR DOWNSPOUTS WITHOUT TIE-INS.
6. ALL DOWNSPOUTS TO BE 4" ROUND PREFINISHED ALUMINUM U.N.O.
7. MINIMIZE PENETRATIONS AND PLACE AND PLACE PLUMBING STACKS ON REAR ROOF WHERE POSSIBLE. COLOR TO MATCH ROOF.
8. PROVIDE RIDGE VENTS AT ALL ATTIC SPACES TO PROVIDE 50% OF THE REQUIRED ATTIC VENTILATION PER NCSBC SECTION 1203.2. WHERE RIDGE CONDITIONS FAIL TO PROVIDE ADEQUATE LENGTH TO MEET 50% OF THE REQUIRED ATTIC VENTILATION, PROVIDE ADDITIONAL STATIC VENTS A MINIMUM OF 3'-0" ABOVE SOFFIT VENTS. LOCATE ALL STATIC VENTS ON REAR FACING ROOF SLOPE. PAINT VENTS TO MATCH SURROUNDING ROOF SHINGLES.
9. HOLD RIDGE VENT 1'-0" MINIMUM OUT FROM EDGE OF ROOF.
10. RIDGE VENTS TO PROVIDE 18 SI/LF OF NFA (NET FREE AREA) = 0.125 SF/LF.
11. THROUGH-ROOF STATIC VENTS TO PROVIDE MIN. 150 SI/UNIT NFA = 1.04 SF/UNIT
12. ALL SOFFIT MATERIAL TO BE VENTED FIBER CEMENT SOFFIT AND PROVIDE MINIMUM 5 SI/LF NFA = 0.035 SF/LF
13. EXTEND ROOF WATERPROOFING UNDERLAYMENT 2'-0" BEYOND INTERIOR FACE OF STUD AT EXTERIOR WALLS. EXTEND IT 2'-0" TO EACH SIDE OF ALL ROOF VALLEYS.
14. EACH DRAFTSTOPPED AREA TO HAVE MIN. 20" x 30" ATTIC ACCESS. SEE UNIT PLANS FOR ACCESS LOCATION. COORDINATE WITH ROOF TRUSSES.

ROOF LEGEND

- PREFINISHED ALUMINUM GUTTER
- D.S. — PREFINISHED ALUMINUM DOWNSPOUT
- RIDGE VENT
- STATIC VENT
- FACE OF STUD WALL BELOW



1 / A151 **ROOF PLAN**
SCALE: 1/8" = 1'-0" R.E. = 1/A201

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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No.	Description	Date

100% CONSTRUCTION DOCUMENTS

ROOF PLAN

ISSUE DATE 10/28/2022
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A151

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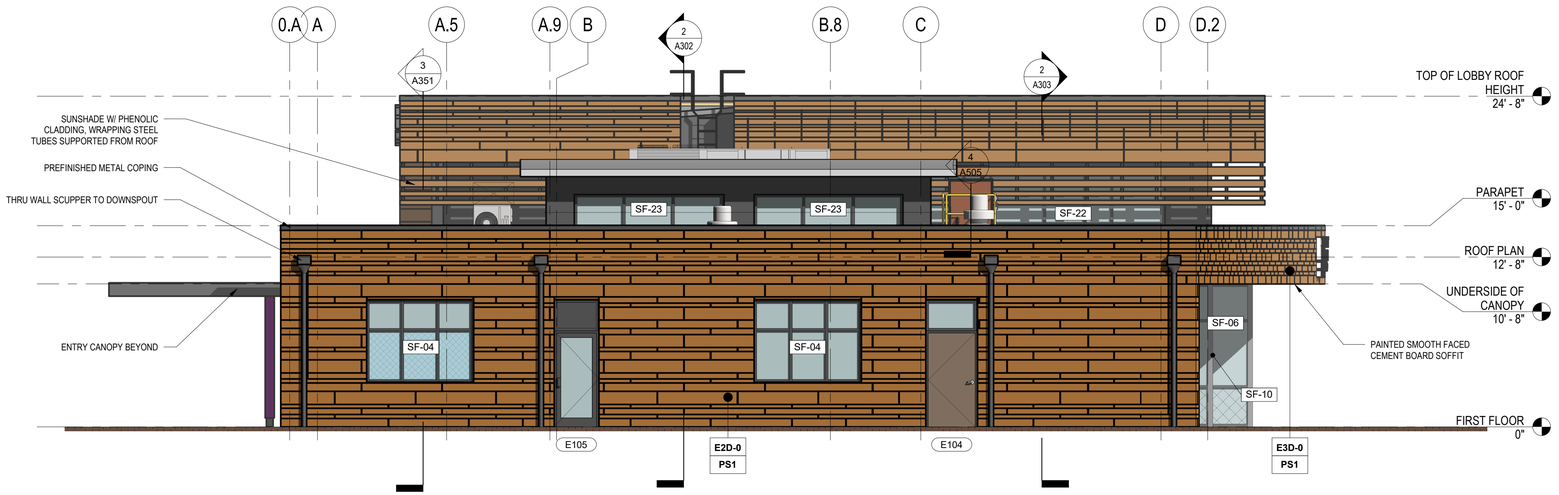
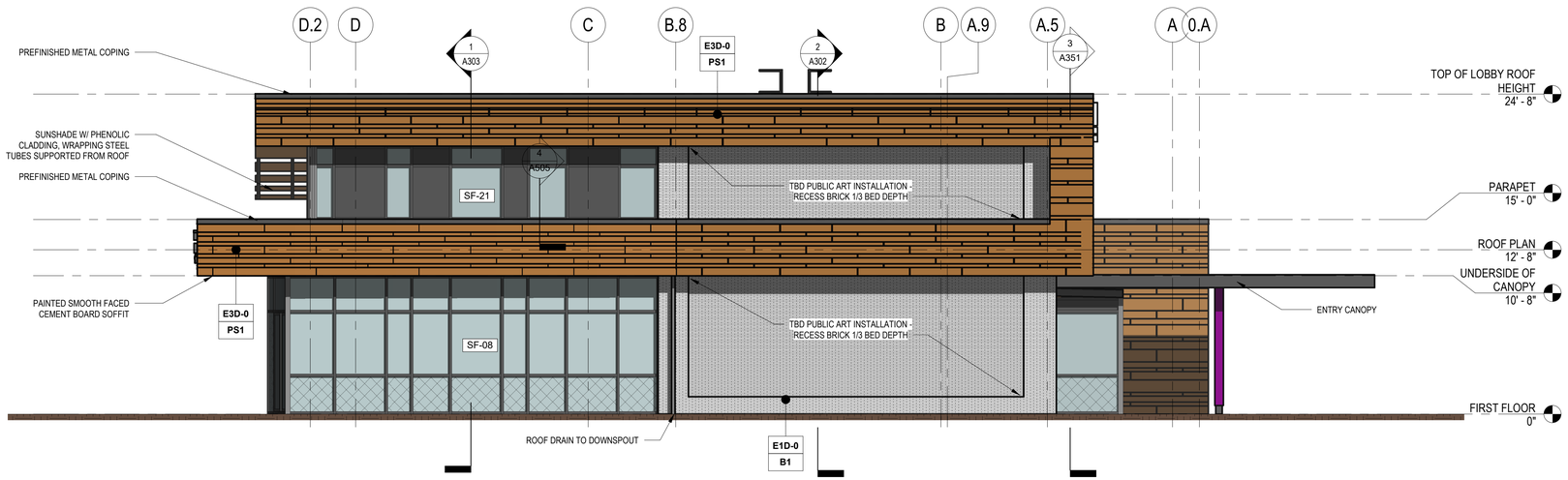


1 A201 **WEST ELEVATION**

SCALE: 3/16" = 1'-0" R.E. = 1/A101



2 A201 **EAST ELEVATION**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD
PB1	BLACK 8" POLISHED MASONRY BLOCK - TBD
PS1	WOOD GRAIN PHENOLIC SIDING - TBD

PAINT COLORS TO BE COORDINATED DURING CONSTRUCTION WITH ARCHITECT AND OWNER. COLORS TO BE SIMILAR TO WHAT WAS APPROVED BY NCHFA.

EXTERIOR SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- 1t — DOOR TAG
- 1t — WINDOW TAG (REFER TO A602 FOR WINDOW SIZES AND INFORMATION)
- D.S. — DOWNSPOUT LOCATION
- CJ — CONTROL JOINT LOCATION
- ℄ — CENTER LINE
- DETAIL 1 / SHEET A301 — SECTION DETAIL
- DETAIL 1 / SHEET A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — LEVEL MARKER
- E1-A0 — EXTERIOR ASSEMBLY TYPE. SEE A030 FOR ASSEMBLY TYPES
- P1 — EXTERIOR FINISH COLOR. SEE COLOR LEGEND

ELEVATION NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

1. ADDRESSING SIGNAGE TO BE LOCATED ON THE SIDE OF THE BUILDING FROM WHERE THE BUILDING IS ADDRESSED (ONE SIDE ONLY). PROVIDE BUILDING ADDRESS IN 6" HIGH LETTERS TO BE APPROVED BY FIRE MARSHALL. ADDRESS NUMBERS TO BE ILLUMINATED.
2. FACE OF SLAB SHALL NOT BE EXPOSED AT SLOPED EXTERIOR PAVING CONDITIONS. COORDINATE EXT. PAVING CONDITIONS WITH CIVIL, TYP.
3. COORDINATE ALL DOWNSPOUT TIE-INS WITH CIVIL DRAWINGS. PROVIDE SPLASH BLOCKS FOR DOWNSPOUTS W/OUT TIE-INS.
4. VERTICAL CONTROL JOINTS ARE ILLUSTRATED FOR REFERENCE PURPOSES IN BUILDING ELEVATIONS. CJ'S ARE RECOMMENDED WHERE TRANSITIONS IN BRICK HEIGHT OCCUR, AT THE CORNERS OF LARGE OPENINGS, ALL INSIDE CORNERS, WITHIN 10' OF OUTSIDE CORNERS AND A MAXIMUM OF 30' O.C. MASONRY CONTRACTOR TO PROVIDE HORIZONTAL AND VERTICAL EXPANSION JOINTS IN BRICKWORK PER TECHNICAL NOTES 18A AS PUBLISHED BY THE BRICK INDUSTRY ASSOCIATION.
5. NO MASONRY CORE HOLES SHALL BE EXPOSED, TYP. CLOSURE (SOLID CORE) MASONRY SHALL BE USED WHERE CORE HOLES WOULD OTHERWISE BE EXPOSED TO ELEMENTS.
6. EXPOSED STEEL LINTELS AND BREAK METAL TO BE PAINTED TO MATCH ADJACENT SURFACE UNLESS OTHERWISE NOTES, TYP.
7. ALL PENETRATIONS, INCLUDING WINDOWS AND DOORS, SHALL BE SEALED TO THE BACKUP WALL AT THE PRIMARY MOISTURE BARRIER.
8. ALL EXTERIOR FIBER CEMENT SOFFITS TO BE PAINTED UNLESS NOTED OTHERWISE.
9. ALL CAULKING IS TO MATCH ADJACENT SURFACES.
10. PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS AND SIGNAGE.

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date

100% CONSTRUCTION DOCUMENTS

EXTERIOR ELEVATIONS

ISSUE DATE 10/28/2022
CHECKED GB/FL
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PROJECT NUMBER 21-025

A201

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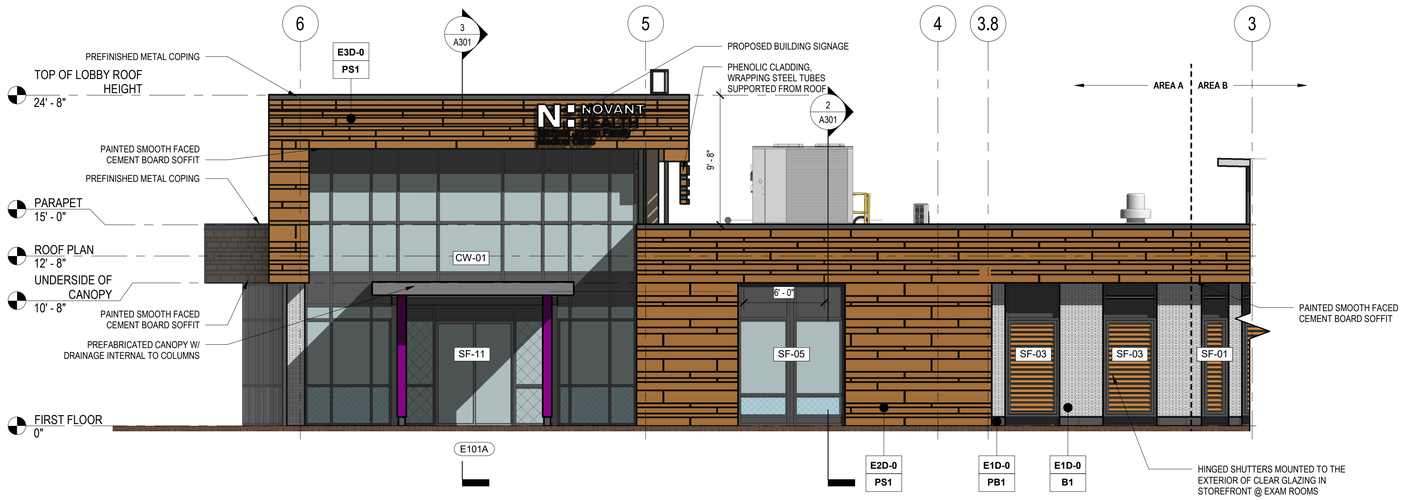
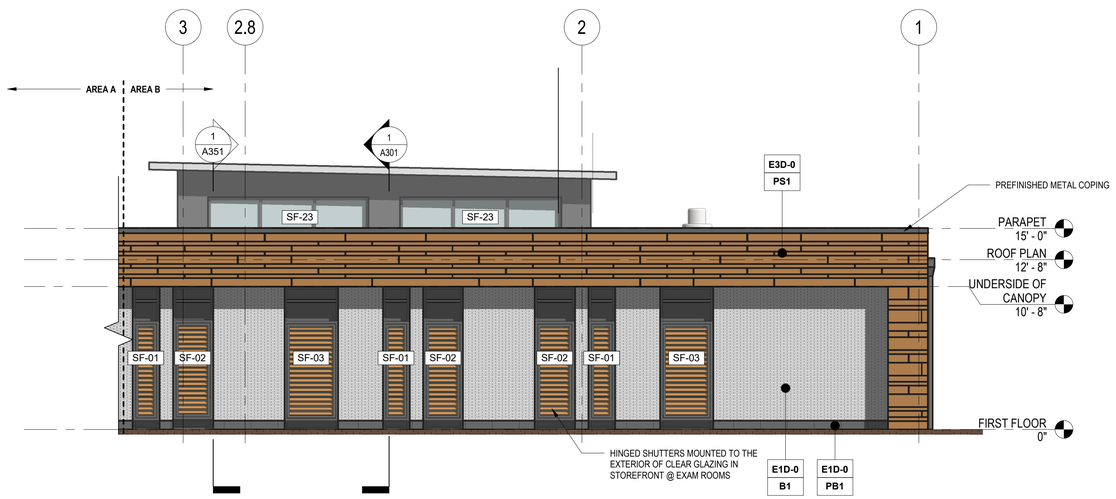


1 A202 **NORTH ELEVATION A**

SCALE: 3/16" = 1'-0" R.E. = 1/A101



2 A202 **NORTH ELEVATION B**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD
PB1	BLACK 8" POLISHED MASONRY BLOCK - TBD
PS1	WOOD GRAIN PHENOLIC SIDING - TBD

PAINT COLORS TO BE COORDINATED DURING CONSTRUCTION WITH ARCHITECT AND OWNER. COLORS TO BE SIMILAR TO WHAT WAS APPROVED BY NCHFA.

EXTERIOR SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- 1t — DOOR TAG
- 1t — WINDOW TAG (REFER TO A602 FOR WINDOW SIZES AND INFORMATION)
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- CJ — CONTROL JOINT LOCATION
- ℄ — CENTER LINE
- DETAIL 1 / SHEET A301 — SECTION DETAIL
- DETAIL 1 / SHEET A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — LEVEL MARKER
- E1-A0 / P1 — EXTERIOR ASSEMBLY TYPE. SEE A030 FOR ASSEMBLY TYPES; EXTERIOR FINISH COLOR. SEE COLOR LEGEND

ELEVATION NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

1. ADDRESSING SIGNAGE TO BE LOCATED ON THE SIDE OF THE BUILDING FROM WHERE THE BUILDING IS ADDRESSED (ONE SIDE ONLY). PROVIDE BUILDING ADDRESS IN 6" HIGH LETTERS TO BE APPROVED BY FIRE MARSHALL. ADDRESS NUMBERS TO BE ILLUMINATED.
2. FACE OF SLAB SHALL NOT BE EXPOSED AT SLOPED EXTERIOR PAVING CONDITIONS. COORDINATE EXT. PAVING CONDITIONS WITH CIVIL, TYP.
3. COORDINATE ALL DOWNSPOUT TIE-INS WITH CIVIL DRAWINGS. PROVIDE SPLASH BLOCKS FOR DOWNSPOUTS W/OUT TIE-INS.
4. VERTICAL CONTROL JOINTS ARE ILLUSTRATED FOR REFERENCE PURPOSES IN BUILDING ELEVATIONS. CJ'S ARE RECOMMENDED WHERE TRANSITIONS IN BRICK HEIGHT OCCUR, AT THE CORNERS OF LARGE OPENINGS, ALL INSIDE CORNERS, WITHIN 10' OF OUTSIDE CORNERS AND A MAXIMUM OF 30' O.C. MASONRY CONTRACTOR TO PROVIDE HORIZONTAL AND VERTICAL EXPANSION JOINTS IN BRICKWORK PER TECHNICAL NOTES 18A AS PUBLISHED BY THE BRICK INDUSTRY ASSOCIATION.
5. NO MASONRY CORE HOLES SHALL BE EXPOSED, TYP. CLOSURE (SOLID CORE) MASONRY SHALL BE USED WHERE CORE HOLES WOULD OTHERWISE BE EXPOSED TO ELEMENTS.
6. EXPOSED STEEL LINTELS AND BREAK METAL TO BE PAINTED TO MATCH ADJACENT SURFACE UNLESS OTHERWISE NOTES, TYP.
7. ALL PENETRATIONS, INCLUDING WINDOWS AND DOORS, SHALL BE SEALED TO THE BACKUP WALL AT THE PRIMARY MOISTURE BARRIER.
8. ALL EXTERIOR FIBER CEMENT SOFFITS TO BE PAINTED UNLESS NOTED OTHERWISE.
9. ALL CAULKING IS TO MATCH ADJACENT SURFACES.
10. PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS AND SIGNAGE.

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date

100% CONSTRUCTION DOCUMENTS

EXTERIOR ELEVATIONS

ISSUE DATE 10/28/2022
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PROJECT NUMBER 21-025

A202

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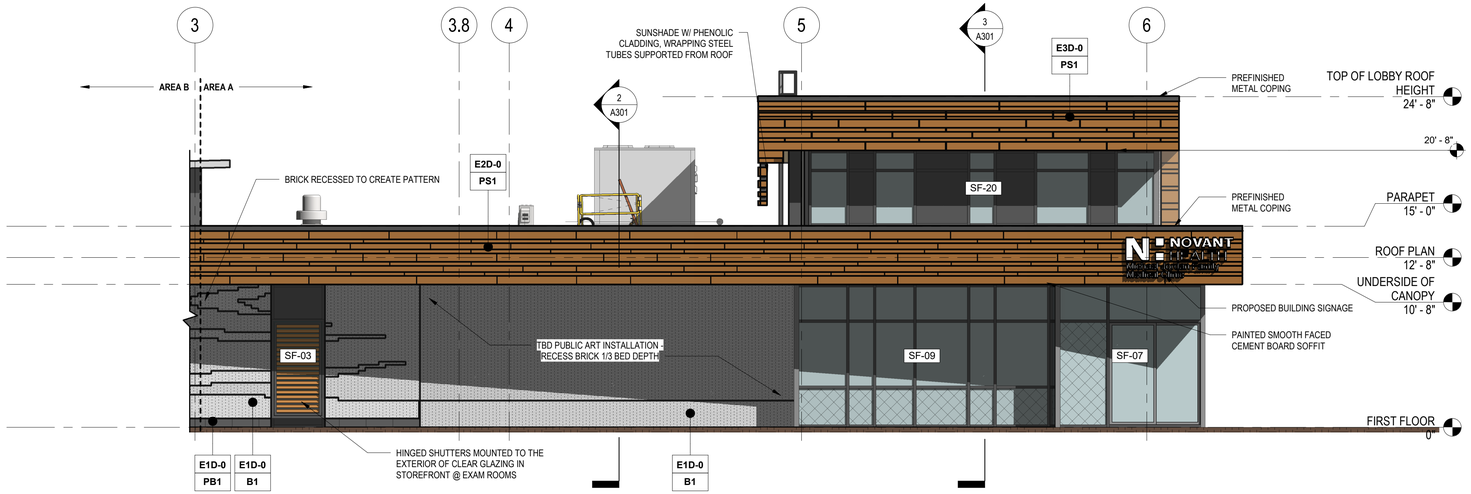
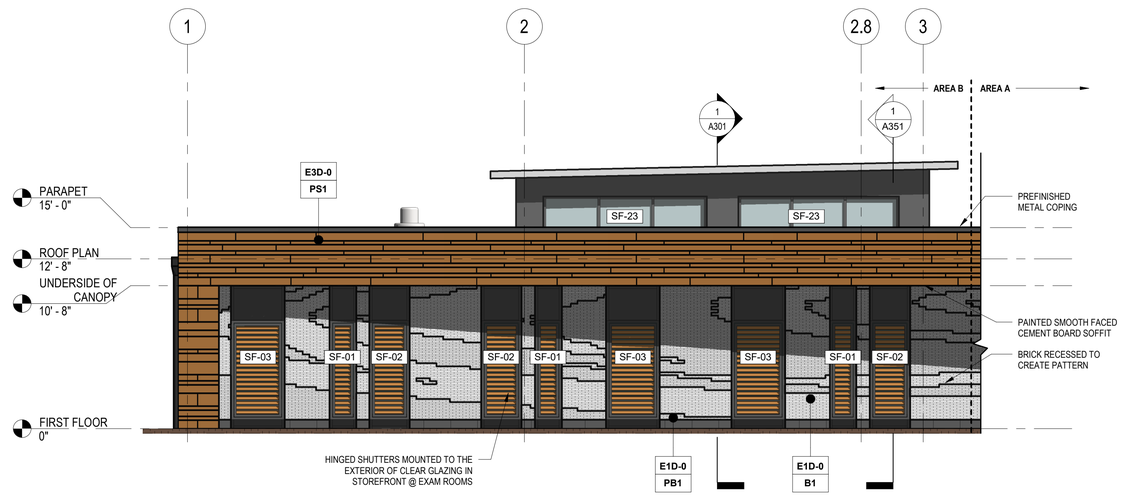


1 A203 **SOUTH ELEVATION A**

SCALE: 3/16" = 1'-0" R.E. = 1/A101



2 A203 **SOUTH ELEVATION B**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD
PB1	BLACK 8" POLISHED MASONRY BLOCK - TBD
PS1	WOOD GRAIN PHENOLIC SIDING - TBD

PAINT COLORS TO BE COORDINATED DURING CONSTRUCTION WITH ARCHITECT AND OWNER. COLORS TO BE SIMILAR TO WHAT WAS APPROVED BY NCHFA.

EXTERIOR SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- 1t — DOOR TAG
- 1t — WINDOW TAG (REFER TO A602 FOR WINDOW SIZES AND INFORMATION)
- D.S. — DOWNSPOUT LOCATION
- CJ — CONTROL JOINT LOCATION
- ℄ — CENTER LINE
- DETAIL 1 / SHEET A301 — SECTION DETAIL
- DETAIL 1 / SHEET A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — LEVEL MARKER
- E1-A0 — EXTERIOR ASSEMBLY TYPE. SEE A030 FOR ASSEMBLY TYPES
- P1 — EXTERIOR FINISH COLOR. SEE COLOR LEGEND

ELEVATION NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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No.	Description	Date

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EXTERIOR ELEVATIONS

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PROJECT NUMBER 21-025

A203

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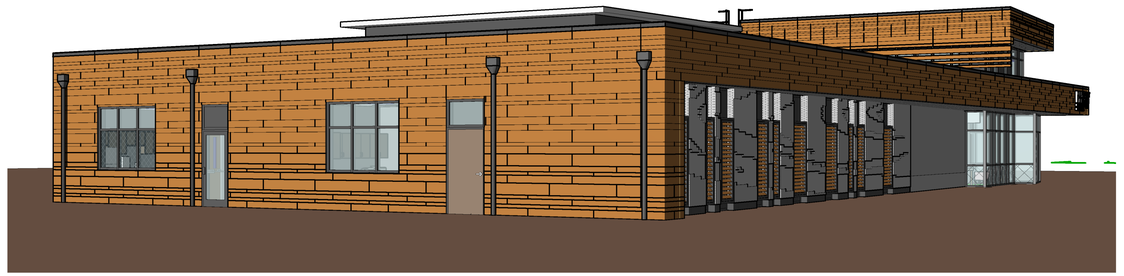
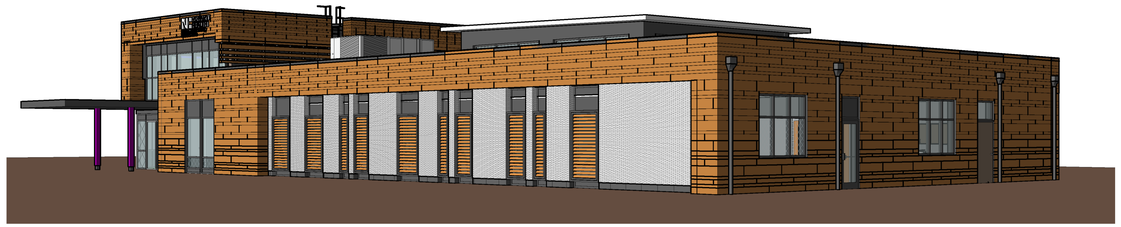
1 A211 **3D SOUTHEAST CORNER**

NOT TO SCALE



2 A211 **3D SOUTHWEST CORNER**

NOT TO SCALE



3 A211 **3D NORTHWEST CORNER**

NOT TO SCALE

4 A211 **3D NORTHEAST CORNER**

NOT TO SCALE

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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No.	Description	Date

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3D VIEWS

ISSUE DATE 10/28/2022
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PROJECT NUMBER 21-025

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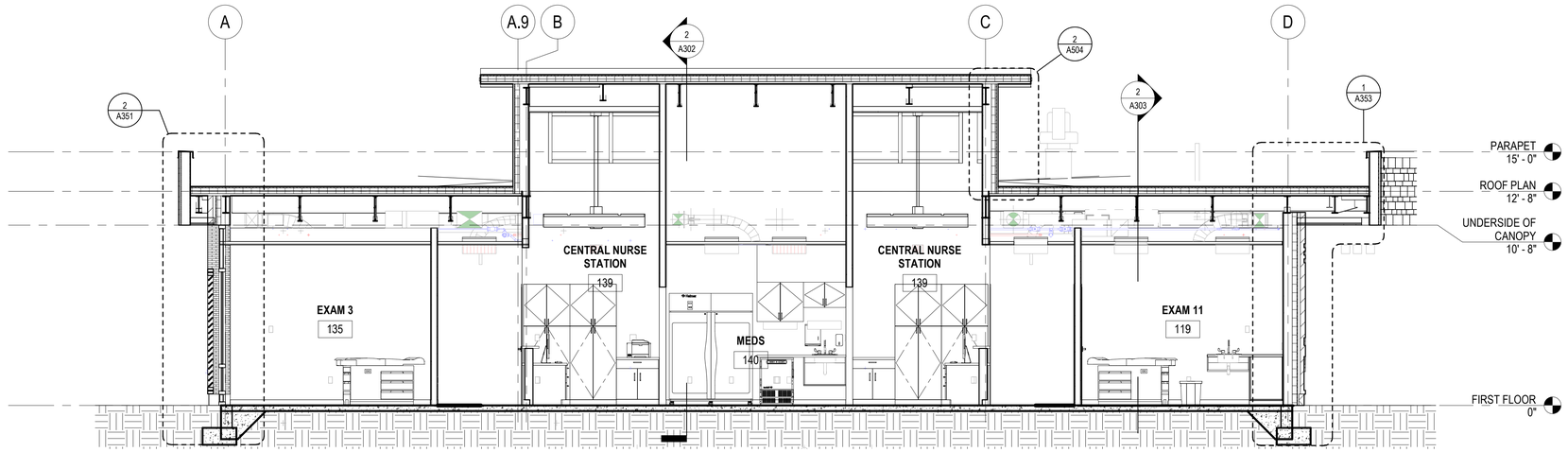
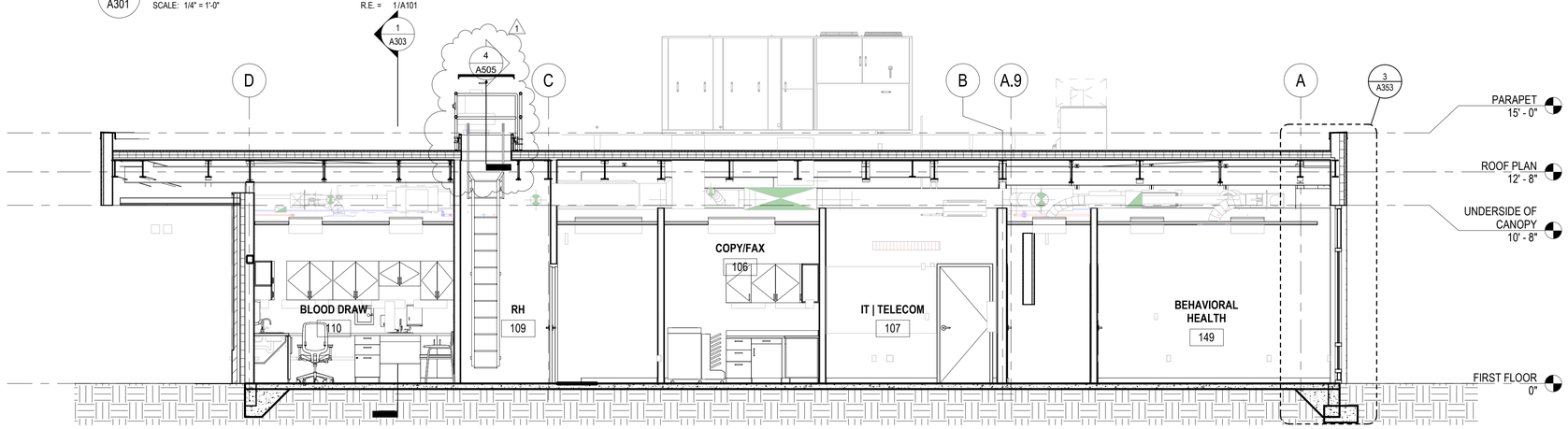


1 A301 **SECTION A**

SCALE: 1/4" = 1'-0" R.E. = 1/A101



2 A301 **SECTION B**

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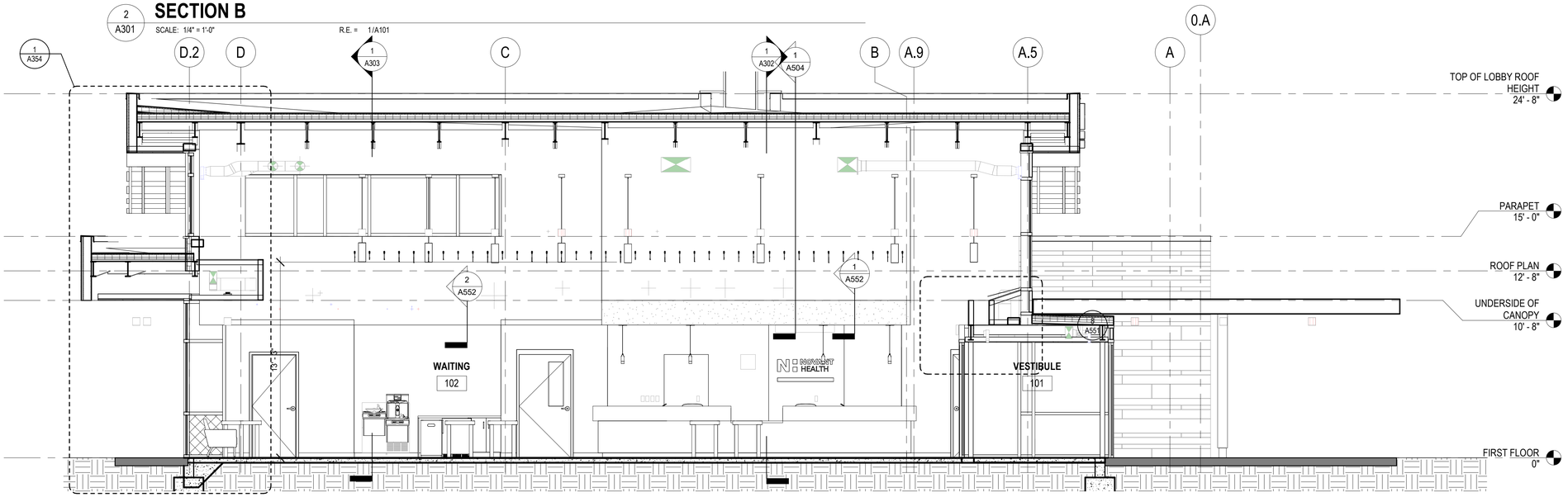

3 A301 **SECTION C**

SCALE: 1/4" = 1'-0" R.E. = 1/A101

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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No.	Description	Date
1	Clarifications and Updates	10/28/22

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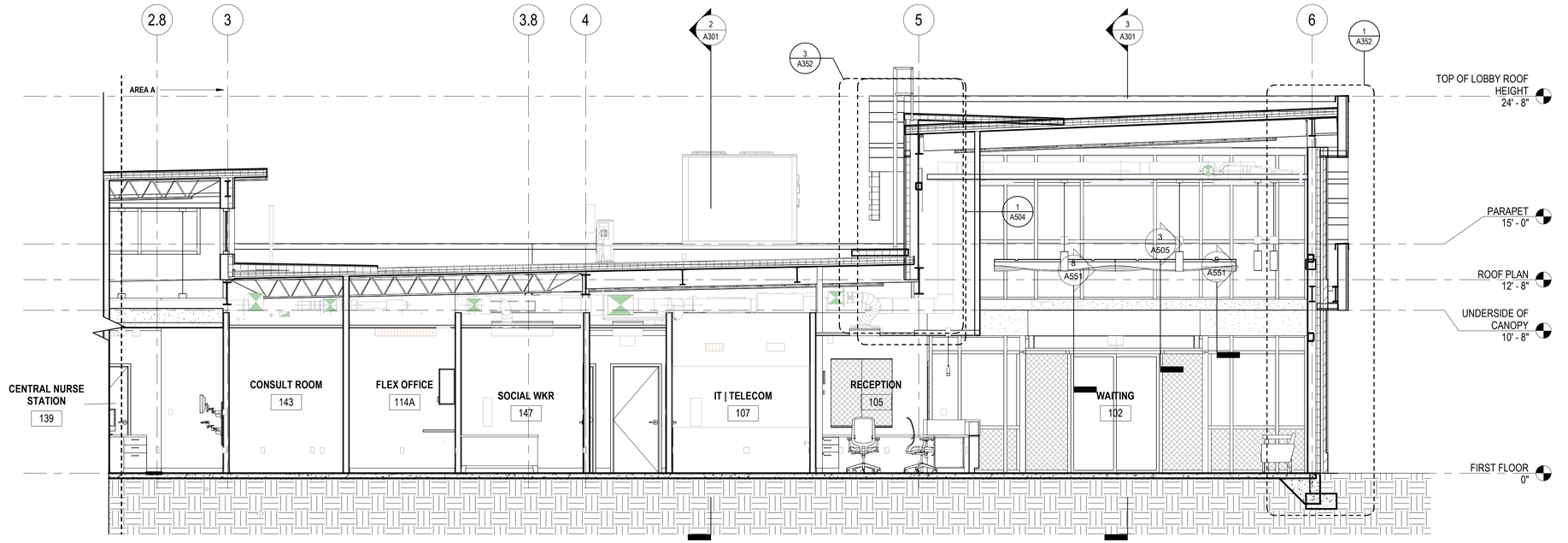
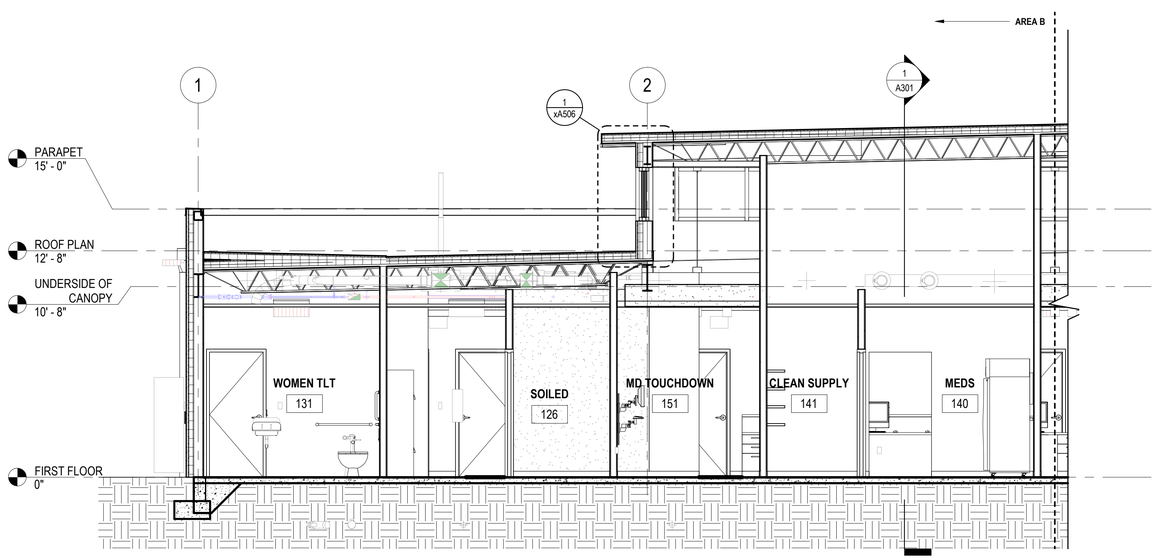


1 A302 **Section 1A**

SCALE: 1/4" = 1'-0" R.E. = 1 / A101



2 A302 **Section 1B**

SCALE: 1/4" = 1'-0" R.E. = 1 / A101

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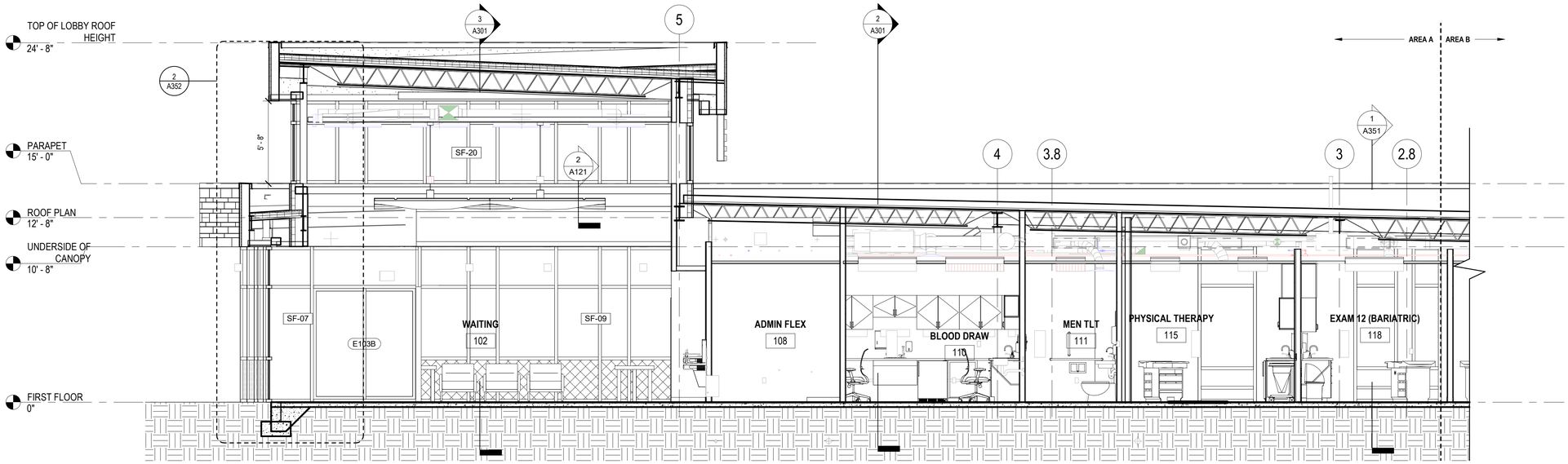

1 A303 **Section 2A**

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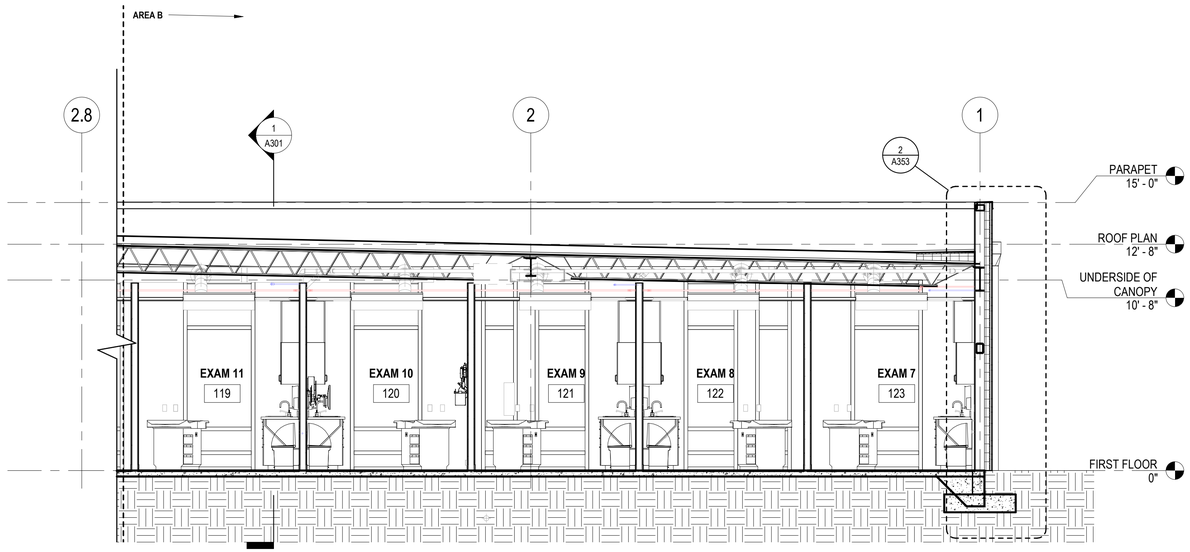

2 A303 **Section 2B**

SCALE: 1/4" = 1'-0" R.E. = 1/A101

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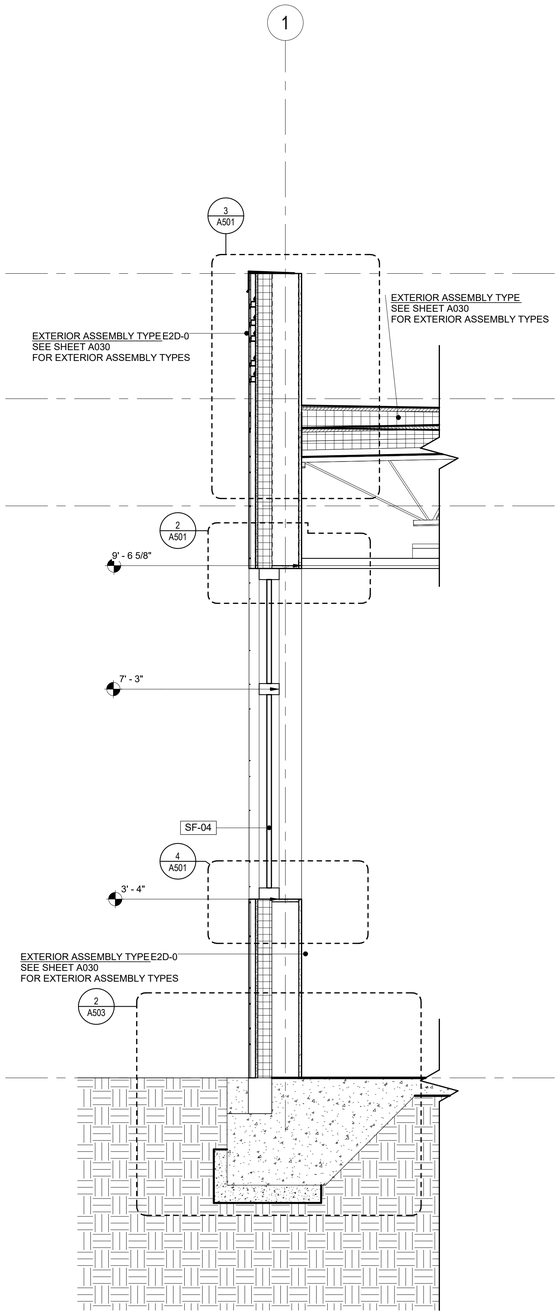

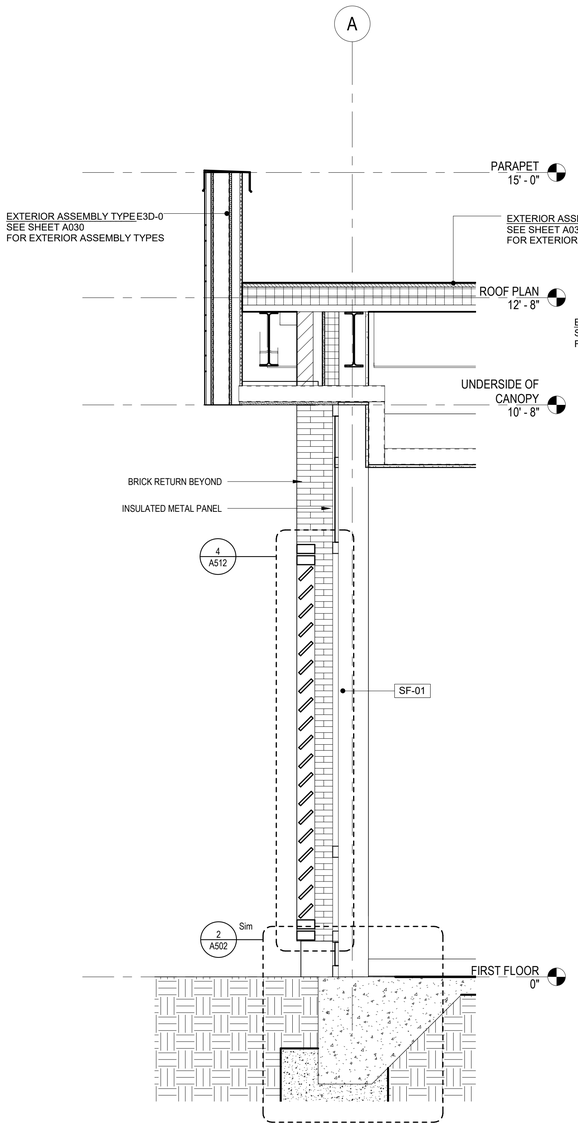

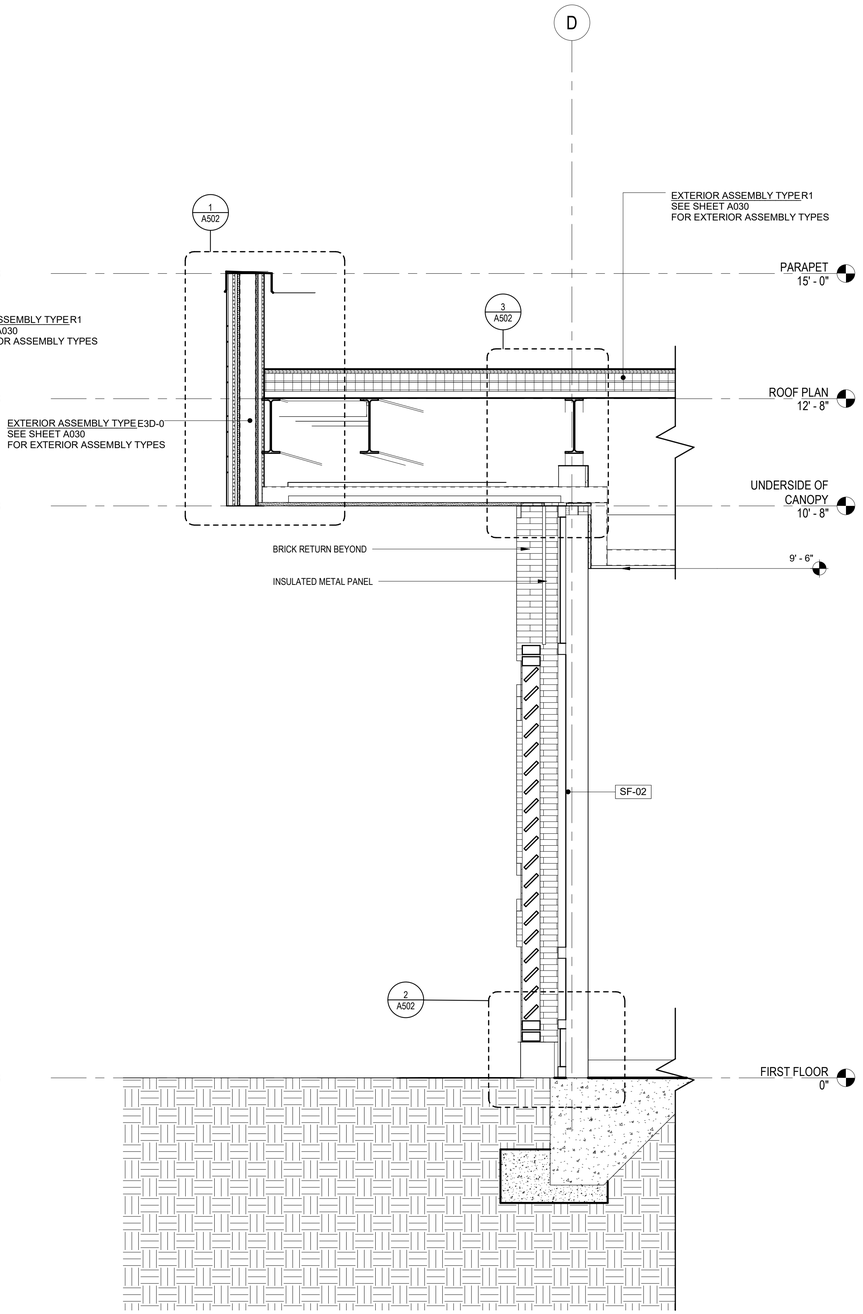

3 A351 TYP. SECTION @ WALL TYPE E2

SCALE: 3/4" = 1'-0" R.E. = 1/A112

2 A351 TYP. WALL SECTION @ EXAM ROOM

SCALE: 3/4" = 1'-0" R.E. = 1/A301

1 A351 TYP. SECTION @ ROOF OVERHANG

SCALE: 3/4" = 1'-0" R.E. = 1/A111

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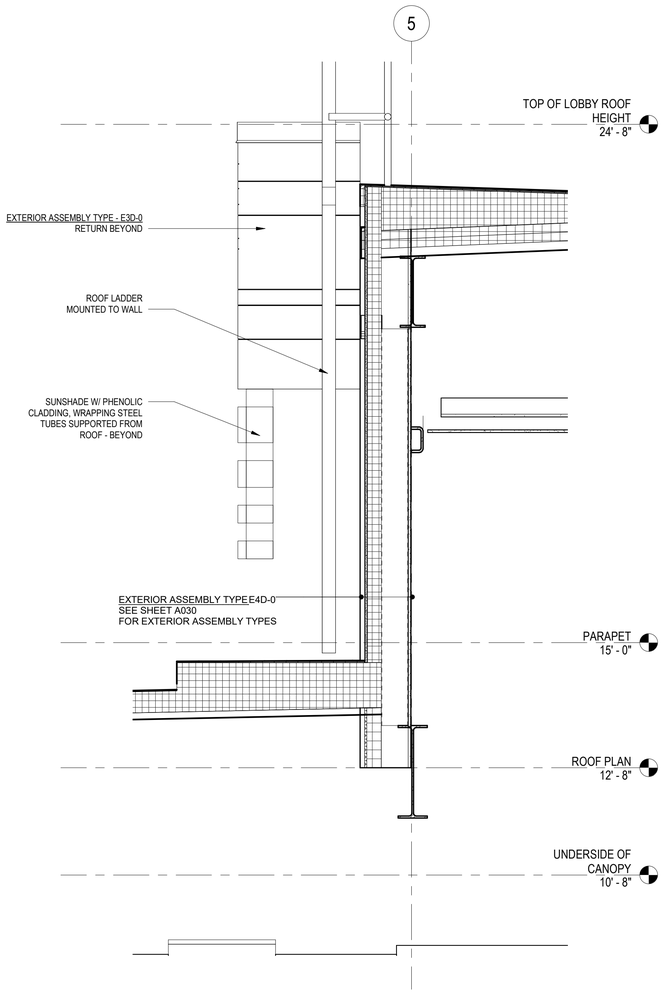
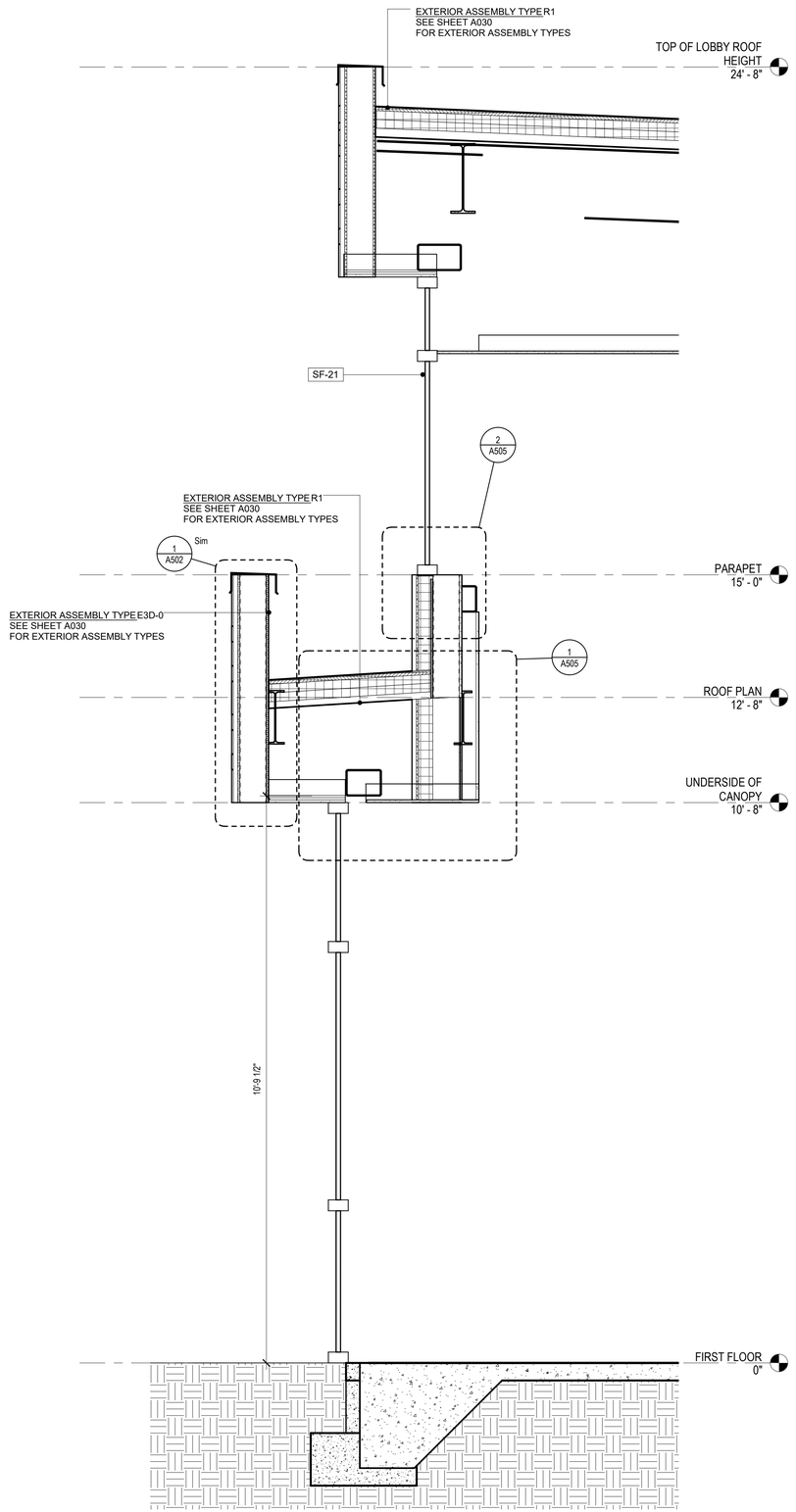


3 A352 WALL SECTION AT HIGHROOF

SCALE: 3/4" = 1'-0" R.E. = 1/A302



2 A352 WALL SECTION AT LOBBY

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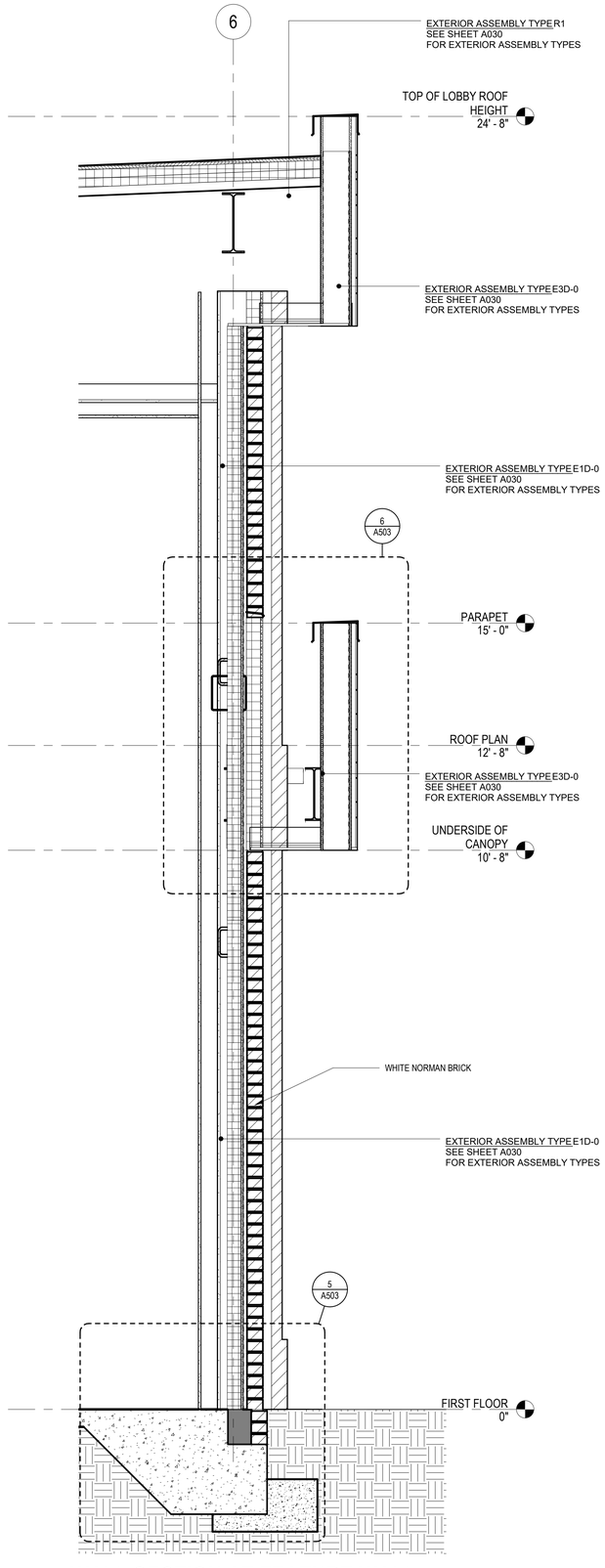

1 A352 WALL SECTION AT FEATURE WALL

SCALE: 3/4" = 1'-0" R.E. = 1/A302

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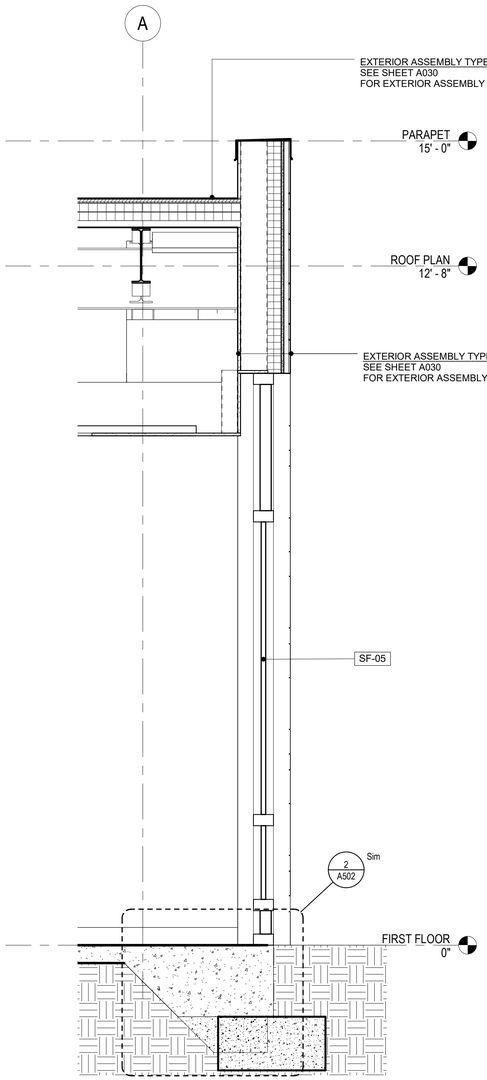

3 A353 **TYP. WALL SECTION AT STOREFRONT WINDOWS**

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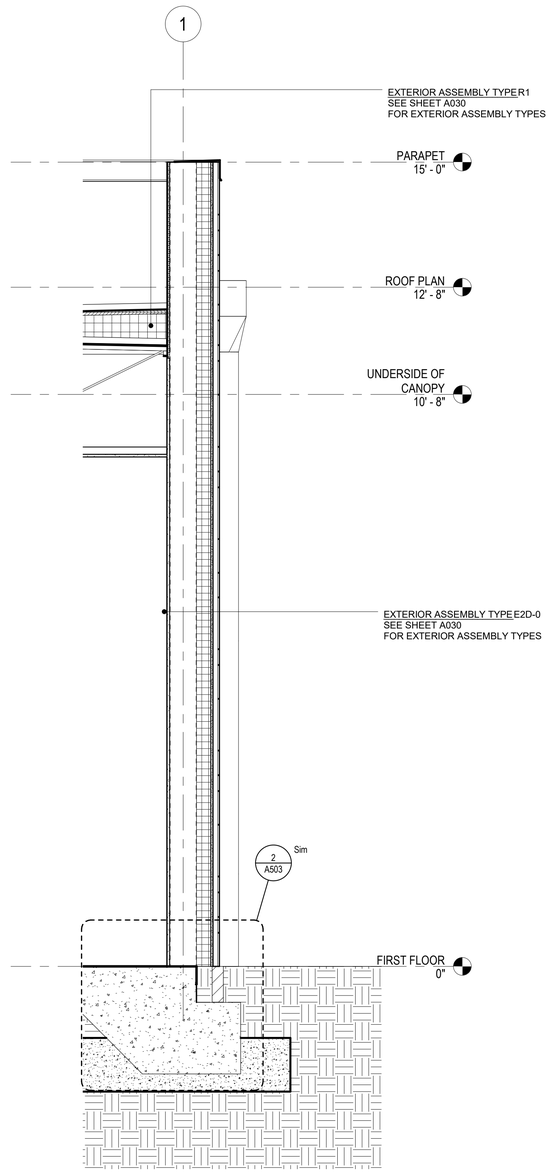
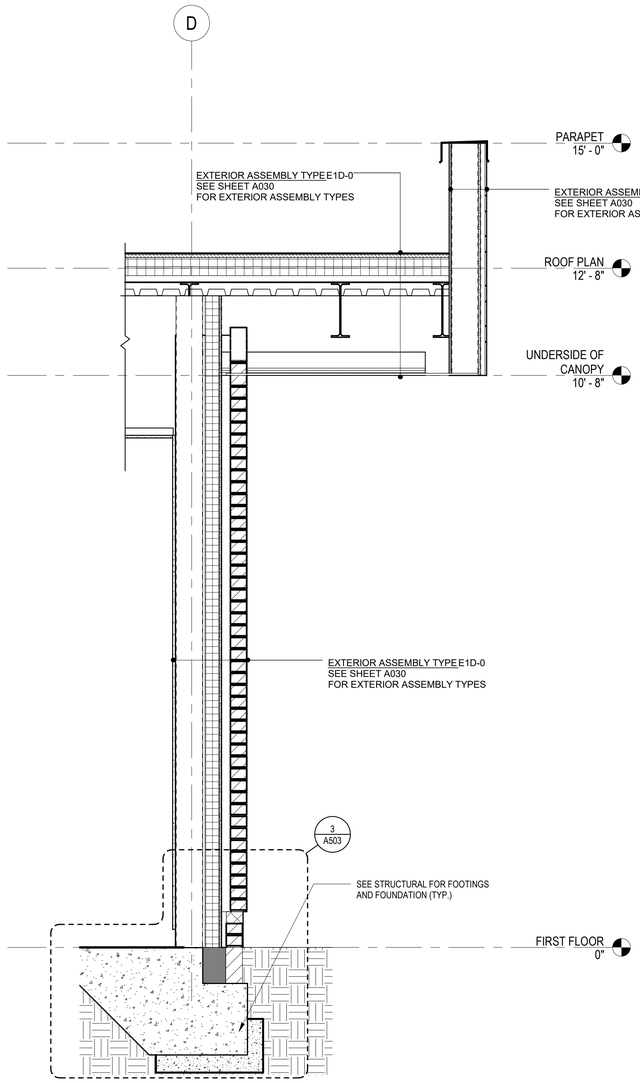


2 A353 **TYP. WALL SECTION AT WOOD-LIKE TEXTURE PANELS**

SCALE: 3/4" = 1'-0" R.E. = 2/A303



1 A353 **TYP. WALL SECTION AT BRICK WALL**

SCALE: 3/4" = 1'-0" R.E. = 1/A301

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

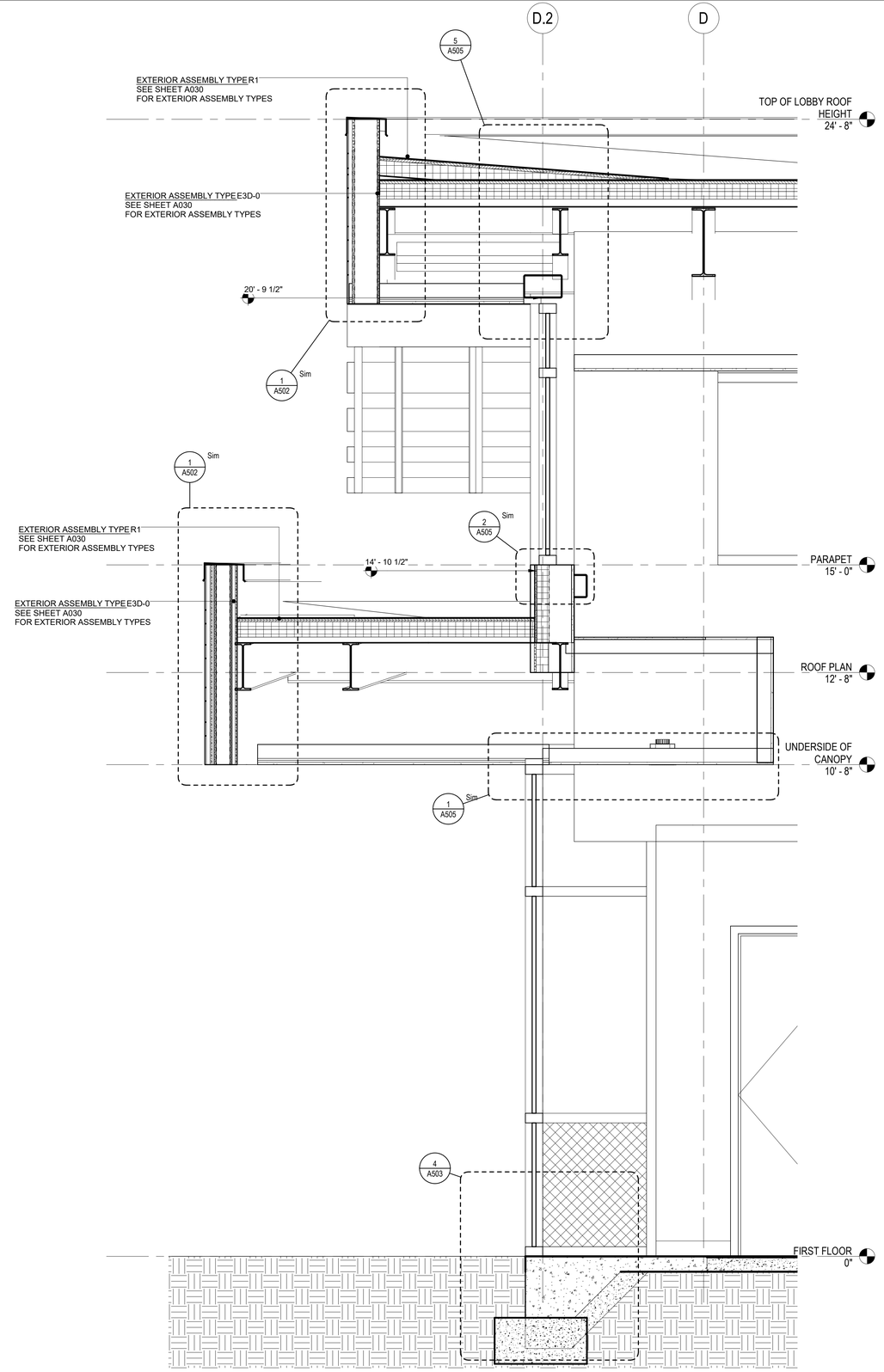
100% CONSTRUCTION DOCUMENTS

WALL SECTIONS

ISSUE DATE 10/28/2022
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-025

A353

10/28/2022 5:24:58 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt



1 A354 **SECTION C - Callout 2**

SCALE: 3/4" = 1'-0" R.E. = 3 / A301

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NEIGHBORING CONCEPTS PLLC — ARCHITECTURE — CERT. NO. 51098 — CHARLOTTE, NC

FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

10.28.2022

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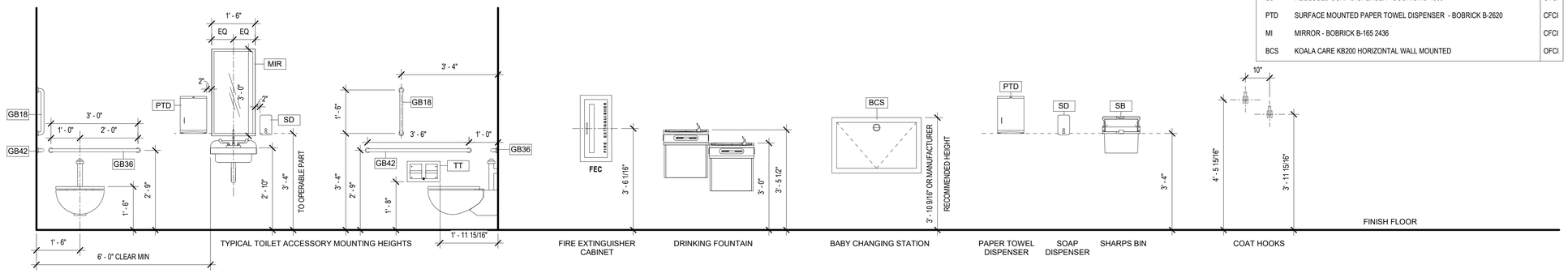
10/28/2022 5:24:58 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt

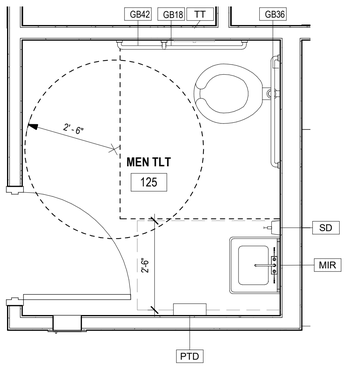
NOTES:
1. ALL THERMOSTATS, SWITCHES AND OTHER DEVICES SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION, WITH EACH ITEM BEING PLUMB AND SQUARE.
2. SIGNS CONTAINING TACTILE CHARACTERS TO BE LOCATED IN ALLOWANCE OF A 18" X 18" MIN. CLEAR FLOOR AREA, CENTERED ON THE TACTILE CHARACTERS, PER ANSI 703.3.11
3. GC. TO COORDINATE JUNCTION BOX AND RECEPTACLE LOCATIONS FOR SPECIALTY EQUIPMENT WITH EQUIPMENT PROVIDER.

TOILET ACCESSORY LEGEND		
GB-42	42" GRAB BAR - BOBRICK B-6806	CFCI
GB-36	36" GRAB BAR - BOBRICK B-6806	CFCI
GB-18	18" GRAB BAR - BOBRICK B-6806	CFCI
TPD	RECESSED TOILET PAPER DISPENSER FOR SINGLE ROLL - BOBRICK B-2740	CFCI
SD	RECESSED SOAP DISPENSER - BOBRICK B-4063	OFCI
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER - BOBRICK B-2620	CFCI
MI	MIRROR - BOBRICK B-165 2436	CFCI
BCS	KOALA CARE KB200 HORIZONTAL WALL MOUNTED	OFCI



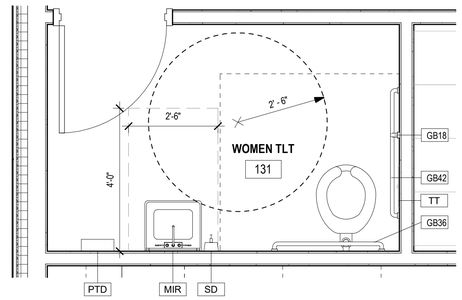
TYPICAL MOUNTING HEIGHTS

SCALE: 1/2" = 1'-0" R.E. = /



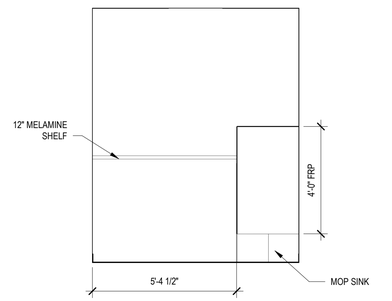
9 A401 **MEN TOILET**

SCALE: 1/2" = 1'-0" R.E. = 1/A112



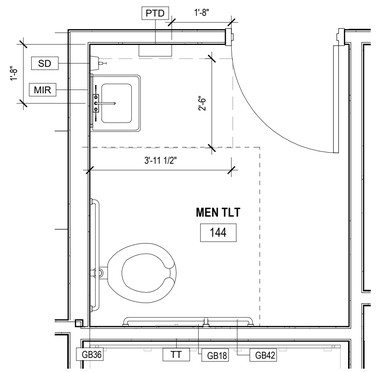
6 A401 **STAFF BREAK RR**

SCALE: 1/2" = 1'-0" R.E. = 1/A112



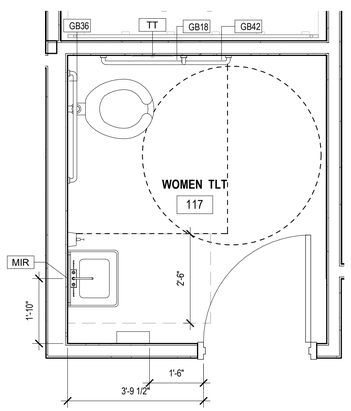
7 A401 **JAN EAST**

SCALE: 3/8" = 1'-0" R.E. = 1/A101



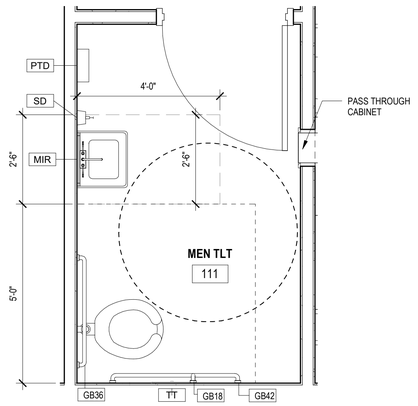
8 A401 **MEN'S TOILET**

SCALE: 1/2" = 1'-0" R.E. = 1/A111



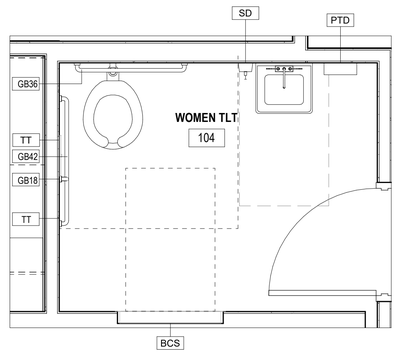
1 A401 **RESTROOM ENLARGED PLAN**

SCALE: 1/2" = 1'-0" R.E. = 1/A111



4 A401 **LAB TOILET**

SCALE: 1/2" = 1'-0" R.E. = 1/A111



5 A401 **WAITING ROOM RR**

SCALE: 1/2" = 1'-0" R.E. = 1/A111

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FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
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No.	Description	Date

100% CONSTRUCTION DOCUMENTS

TOILET PLANS AND ELEVATIONS

ISSUE DATE 10/28/2022
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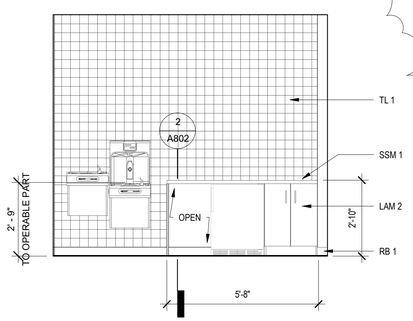
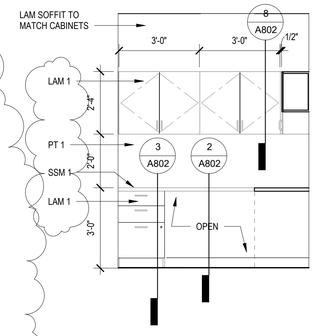
PROJECT NUMBER 21-025

A401

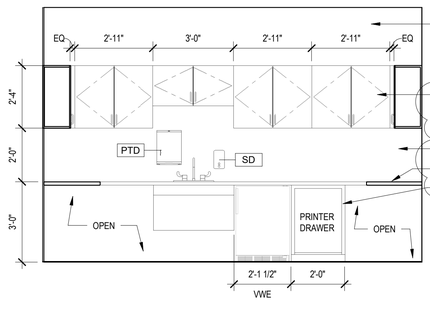
10/28/2022 5:25:01 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt



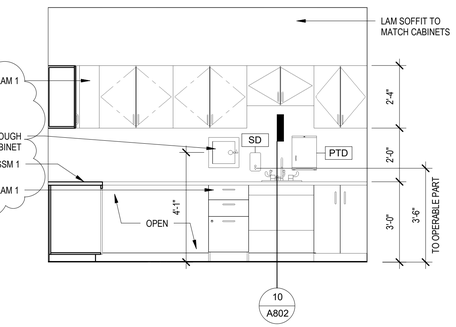
1 A402 **COFFEE BAR MILLWORK**
SCALE: 3/8" = 1'-0" R.E. = 1/A111



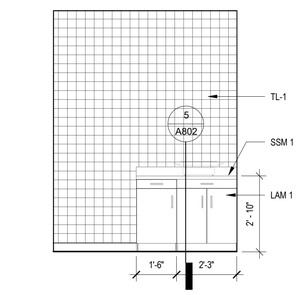
2 A402 **BLOOD DRAW EAST**
SCALE: 3/8" = 1'-0" R.E. = 1/A111



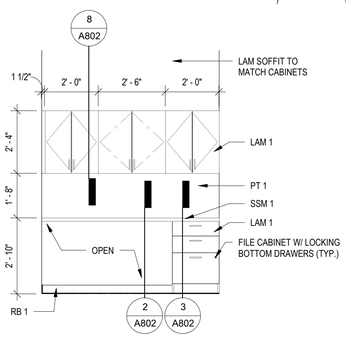
3 A402 **BLOOD DRAW SOUTH**
SCALE: 3/8" = 1'-0" R.E. = 1/A111



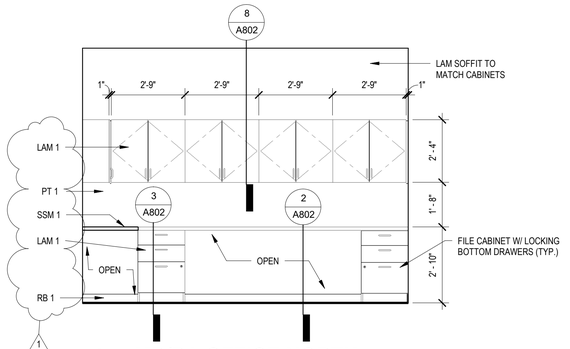
4 A402 **BLOOD DRAW WEST**
SCALE: 3/8" = 1'-0" R.E. = 1/A111



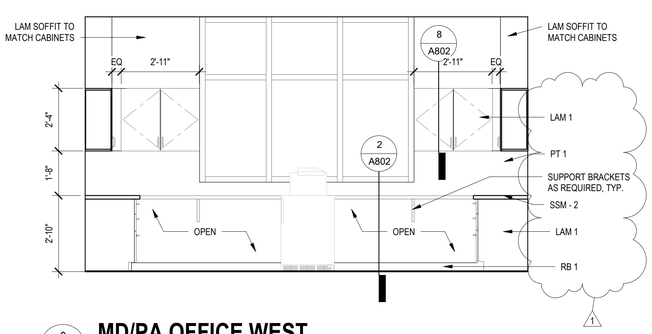
5 A402 **VITALS TYP**
SCALE: 3/8" = 1'-0" R.E. = 1/A111



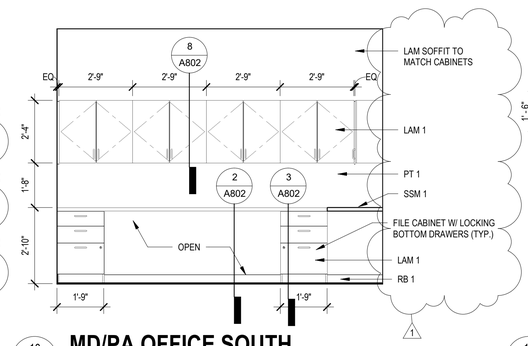
6 A402 **FLEX SPACE EAST**
SCALE: 3/8" = 1'-0" R.E. = 1/A111



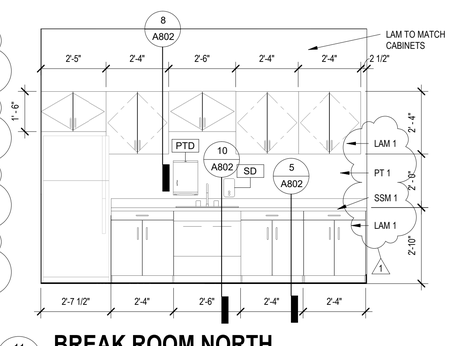
8 A402 **MD/PA OFFICE NORTH**
SCALE: 3/8" = 1'-0" R.E. = 1/A112



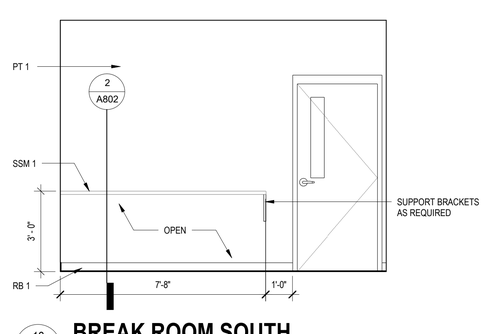
9 A402 **MD/PA OFFICE WEST**
SCALE: 3/8" = 1'-0" R.E. = 1/A112



10 A402 **MD/PA OFFICE SOUTH**
SCALE: 3/8" = 1'-0" R.E. = 1/A112



11 A402 **BREAK ROOM NORTH**
SCALE: 3/8" = 1'-0" R.E. = 1/A112



12 A402 **BREAK ROOM SOUTH**
SCALE: 3/8" = 1'-0" R.E. = 1/A112

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CERT. NO. 51098
CHARLOTTE, NC

FRANK ARNELL LITTLE
REGISTERED ARCHITECT
9404
NORTH CAROLINA
MOORESVILLE, N.C.

10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

INTERIOR ELEVATIONS

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A402

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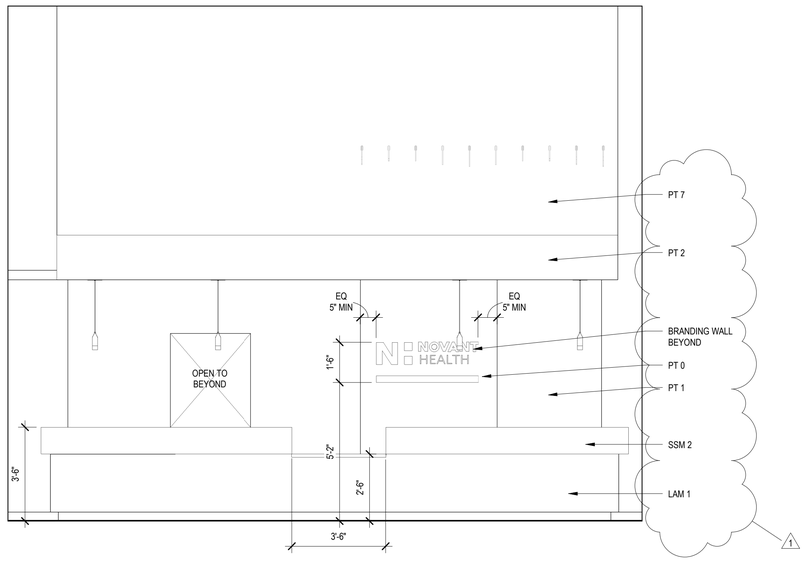

2 A403 **RECEPTION FRONT**

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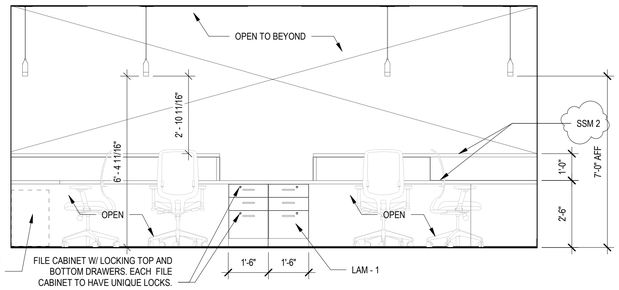

3 A403 **RECEPTION BACK**

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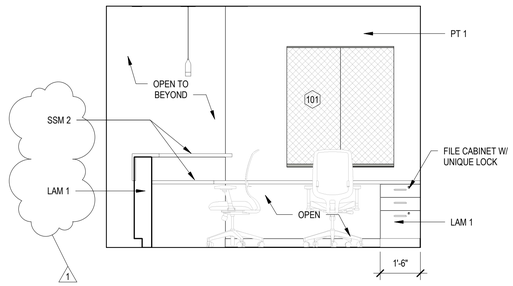

4 A403 **RECEPTION SIDE TYP**

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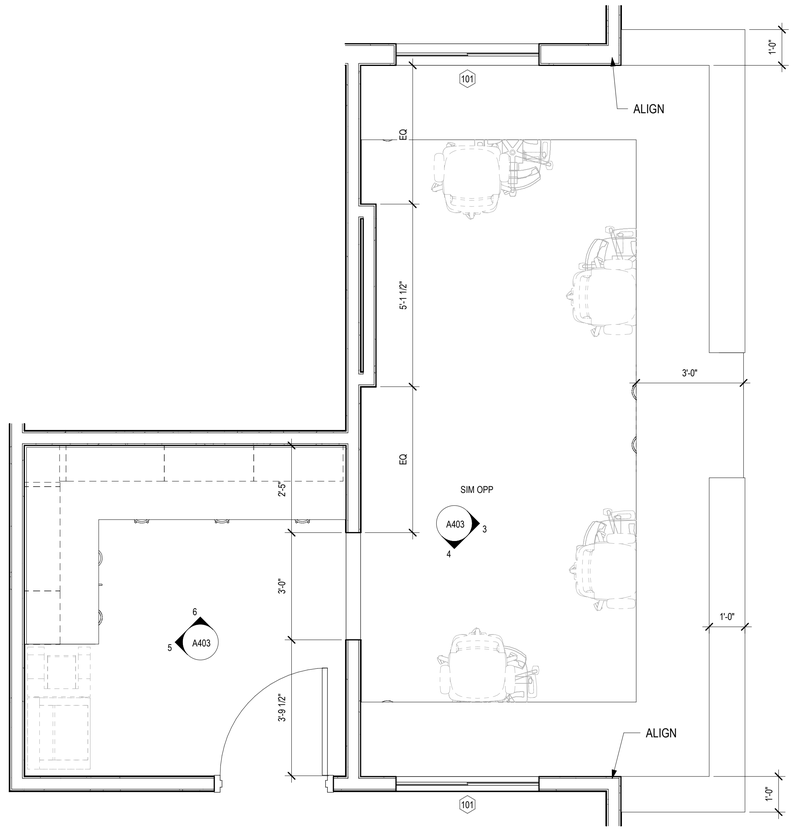

1 A403 **RECEPTION ENLARGED PLAN**

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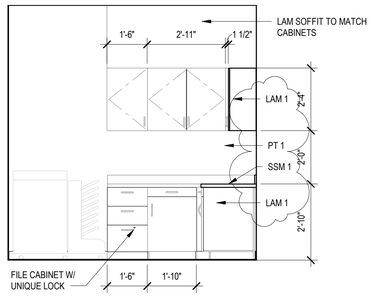
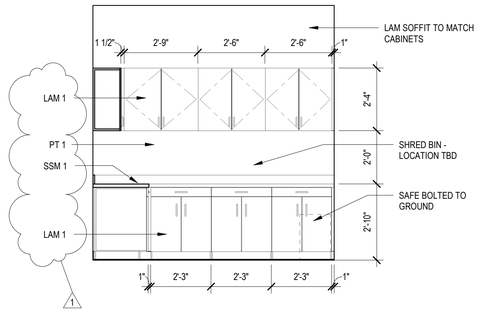


5 A403 **COPY CASEWORK WEST**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



6 A403 **COPY CASEWORK NORTH**

SCALE: 3/8" = 1'-0" R.E. = 1/A111

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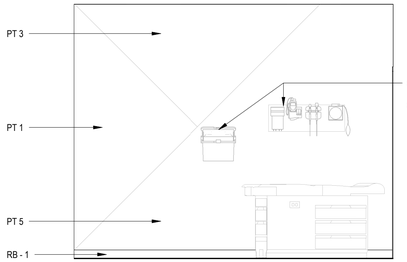
10/28/2022 5:25:07 PM

ACCESSORIES LEGEND

PTD	PAPER TOWEL DISPENSER	CFCI
SD	SOAP DISPENSER	CFCI
SB	SHARPS BIN	OFCI
HS	HAND SANITIZER	OFCI
HS	GLOVE BOX	OFCI
HS	OTOSCOPE	OFCI



8 A404 **EXAM ROOM SOUTH CORRIDOR ACCENT WALL TYP**

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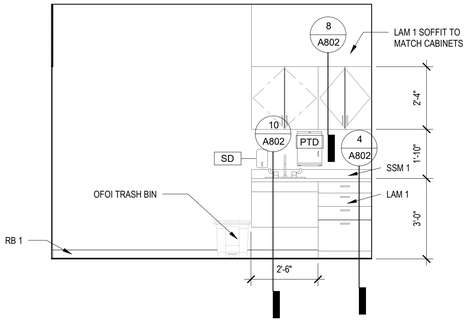

7 A404 **EXAM ROOM TYP**

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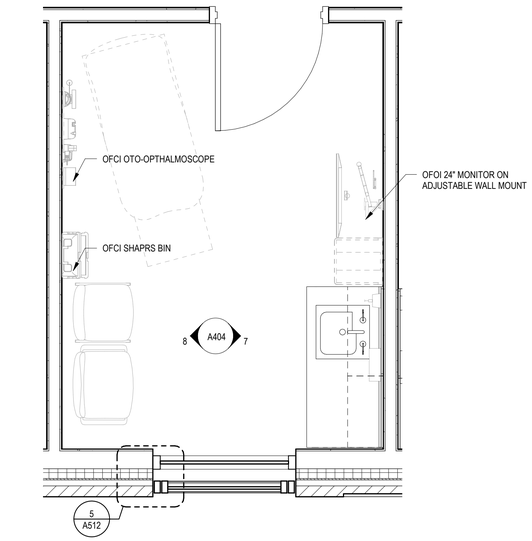
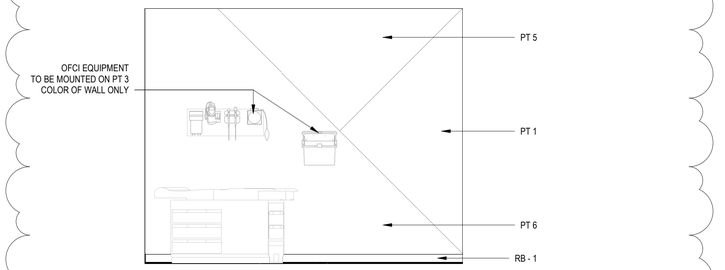


4 A404 **EXAM ROOM ENLARGED PLAN**

SCALE: 1/2" = 1'-0" R.E. = 1/A112



6 A404 **EXAM ROOM NORTH CORRIDOR ACCENT WALL TYP**

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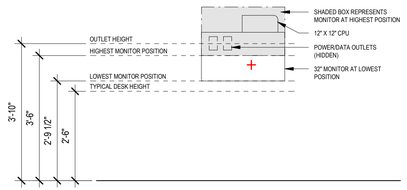

5 A404 **MONITOR MOUNTING DETAILS**

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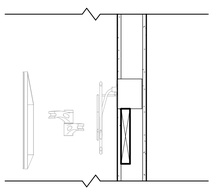

3 A404 **TYP EXAM - MOUNTING SECTION**

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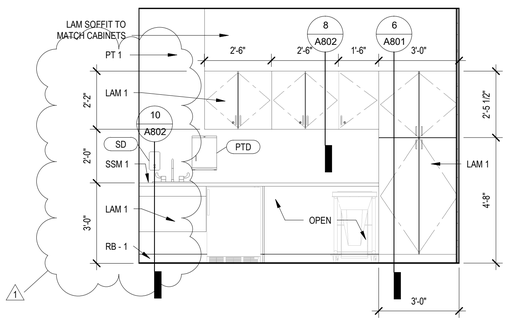
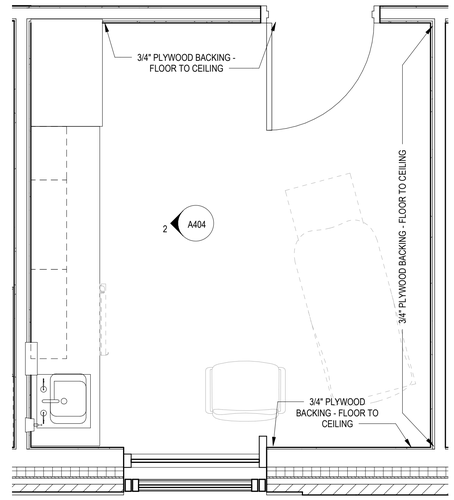


2 A404 **PHYSICAL THERAPY CASEWORK**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



1 A404 **PHYSICAL THERPAY ENLARGED PLAN**

SCALE: 1/2" = 1'-0" R.E. = 1/A111

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

EXAM/PHYSICAL ENLARGED

ISSUE DATE 10/28/2022

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PROJECT NUMBER 21-025

A404

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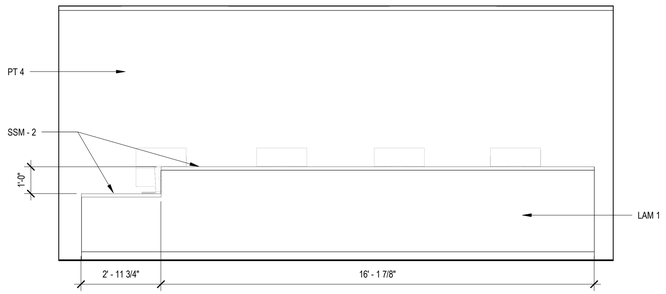
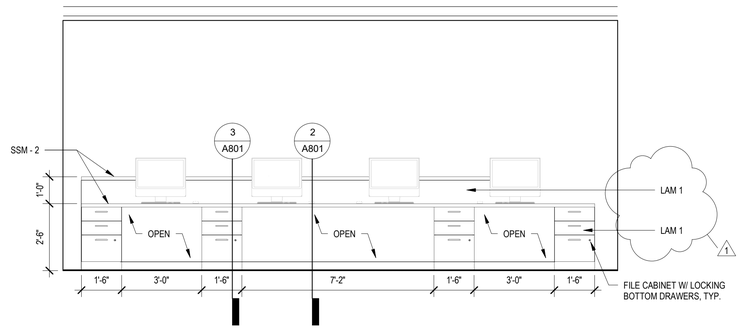


2 A405 NURSE STATION FRONT TYP

SCALE: 3/8" = 1'-0" R.E. = 1/A112



3 A405 NURSE STATION BACK TYP

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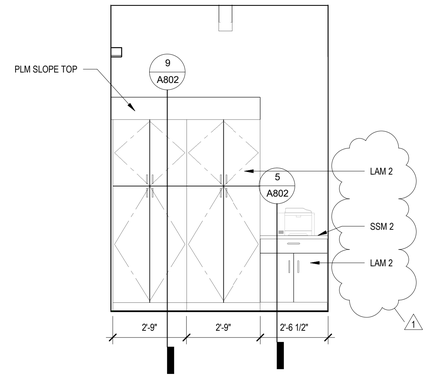
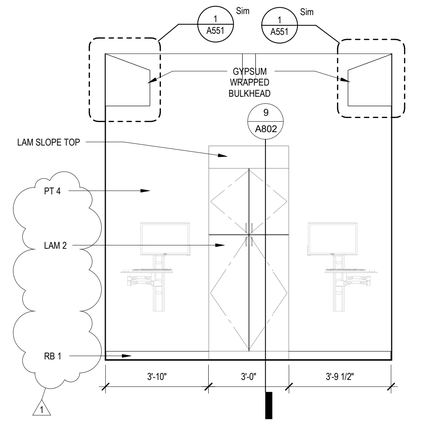


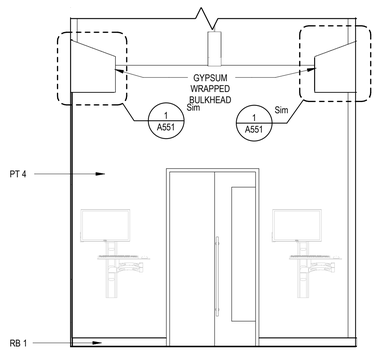
4 A405 NURSE STATION PRINTER CASEWORK TYP

SCALE: 3/8" = 1'-0" R.E. = 1/A112



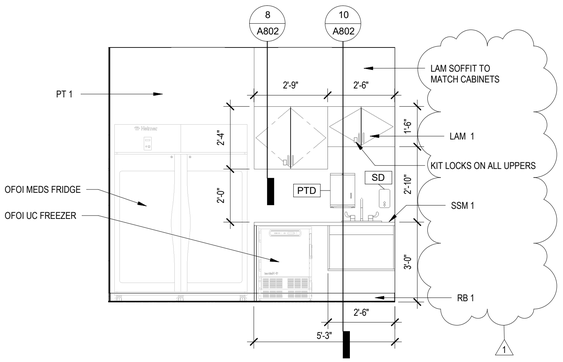
5 A405 MD TOUCHDOWN WEST

SCALE: 3/8" = 1'-0" R.E. = 1/A112



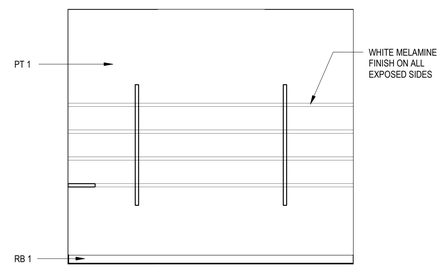
6 A405 MD TOUCHDOWN EAST

SCALE: 3/8" = 1'-0" R.E. = 1/A405



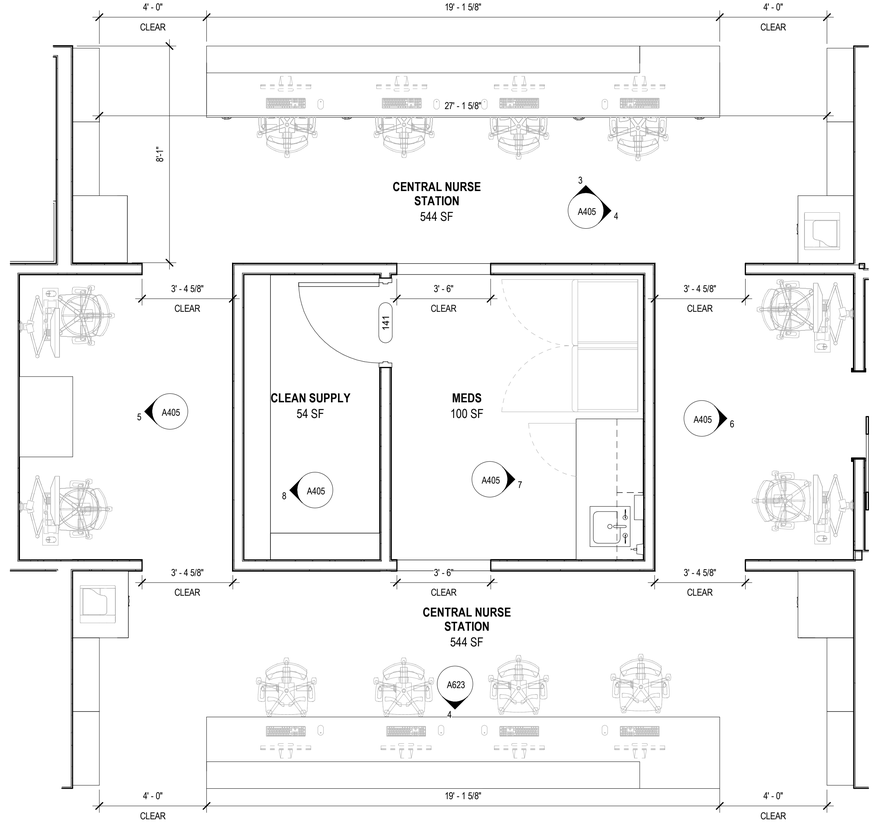
7 A405 MEDS ROOM CASEWORK

SCALE: 3/8" = 1'-0" R.E. = 1/A112



8 A405 CLEAN SUPPLY EAST

SCALE: 3/8" = 1'-0" R.E. = 1/A101



1 A405 NURSE STATION ENLARGED PLAN

SCALE: 3/8" = 1'-0" R.E. = 1/A112

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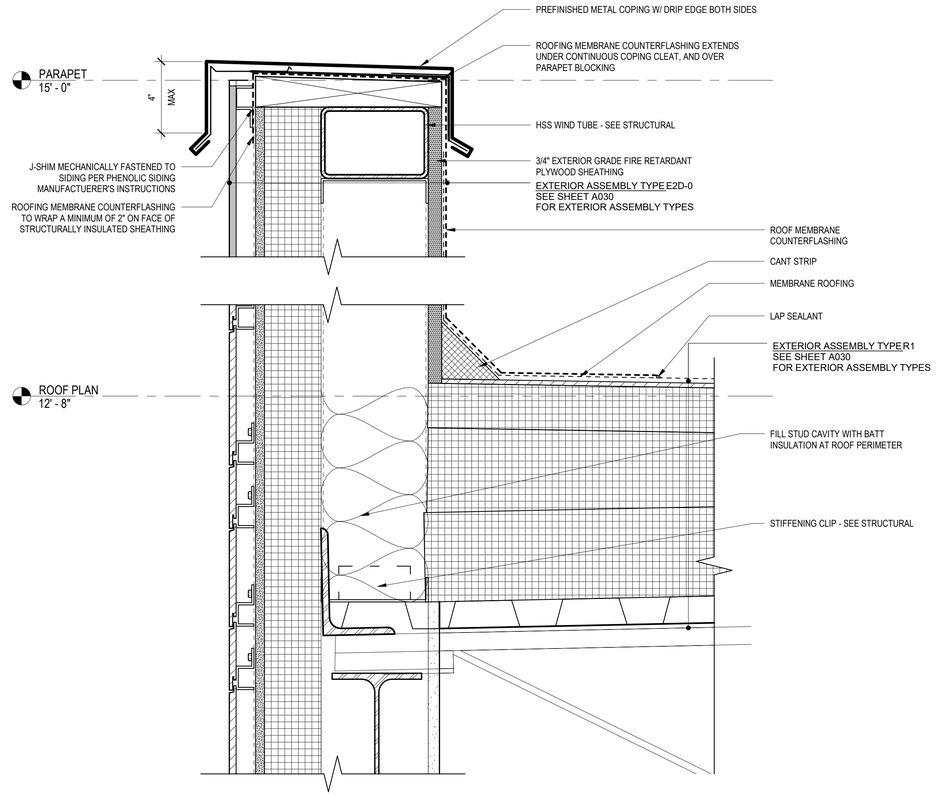
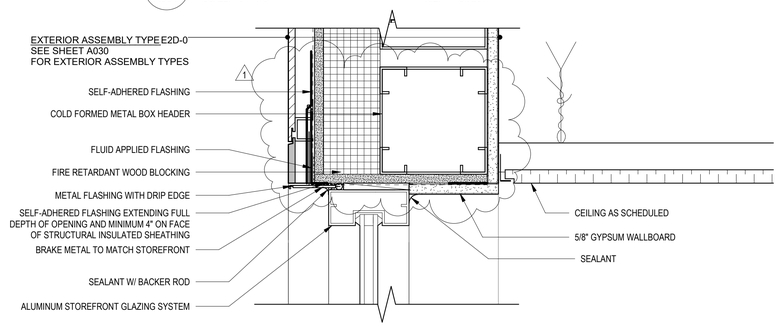


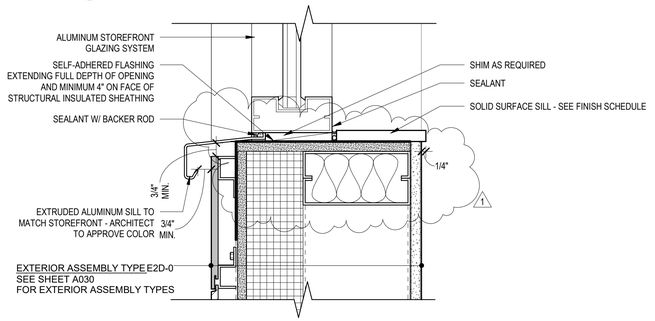
3 A501 PARAPET DETAILS AT EXTERIOR WALL TYPE E2

SCALE: 3" = 1'-0" R.E. = 3 / A351



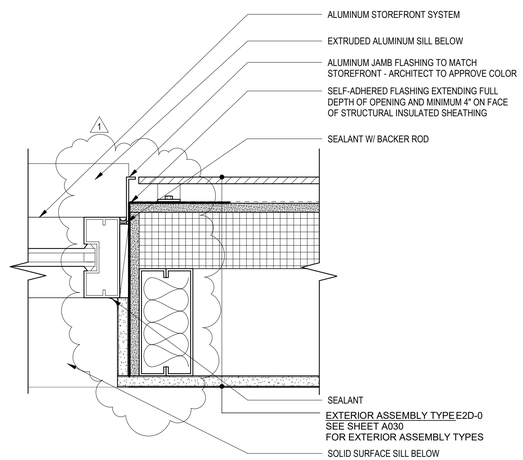
2 A501 TYPICAL HEAD AT EXTERIOR WALL TYPE E2

SCALE: 3" = 1'-0" R.E. = 3 / A351



4 A501 TYPICAL SILL AT EXTERIOR WALL TYPE E2

SCALE: 3" = 1'-0" R.E. = 3 / A351



1 A501 TYPICAL JAMB AT EXTERIOR WALL TYPE E2

SCALE: 3" = 1'-0" R.E. = 1 / A112

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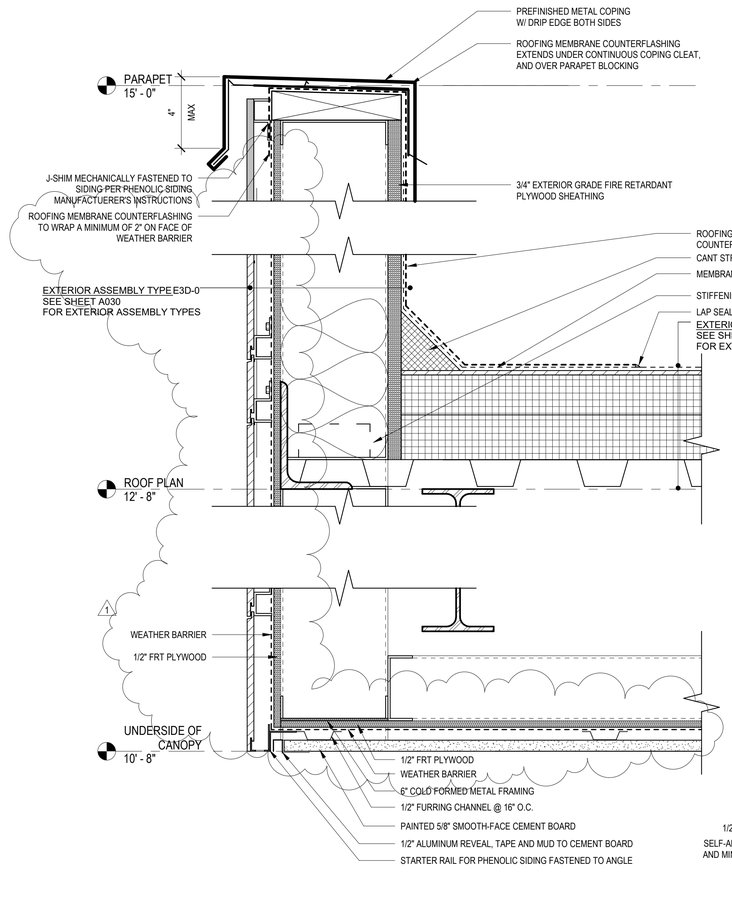
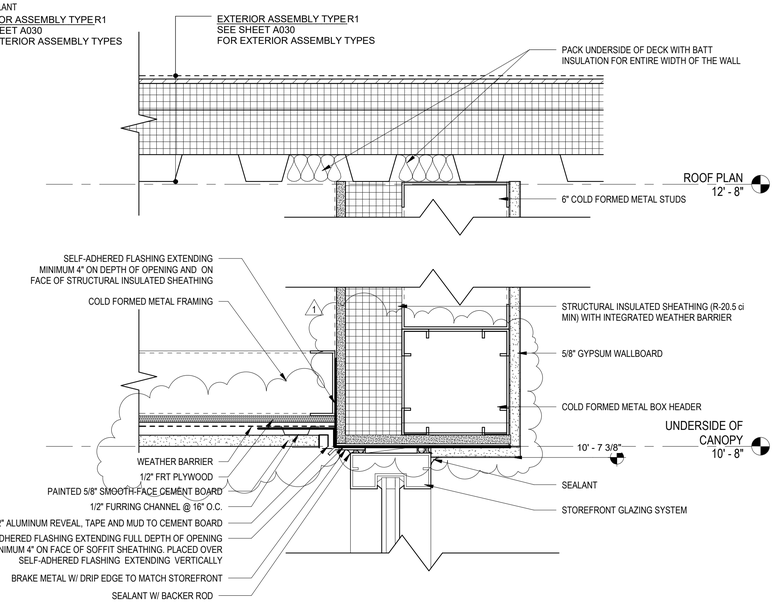


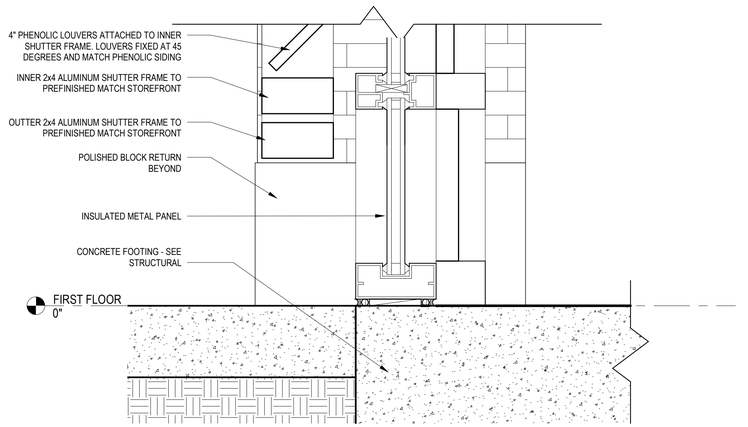
1 / A502 TYP. PARAPET @ ROOF SOFFIT

SCALE: 3" = 1'-0" R.E. = 1/A351



3 / A502 TYP. HEAD DETAIL @ ROOF SOFFIT

SCALE: 3" = 1'-0" R.E. = 1/A351



2 / A502 SILL DETAIL @ EXAM ROOM STOREFRONT

SCALE: 3" = 1'-0" R.E. = 1/A351

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A502

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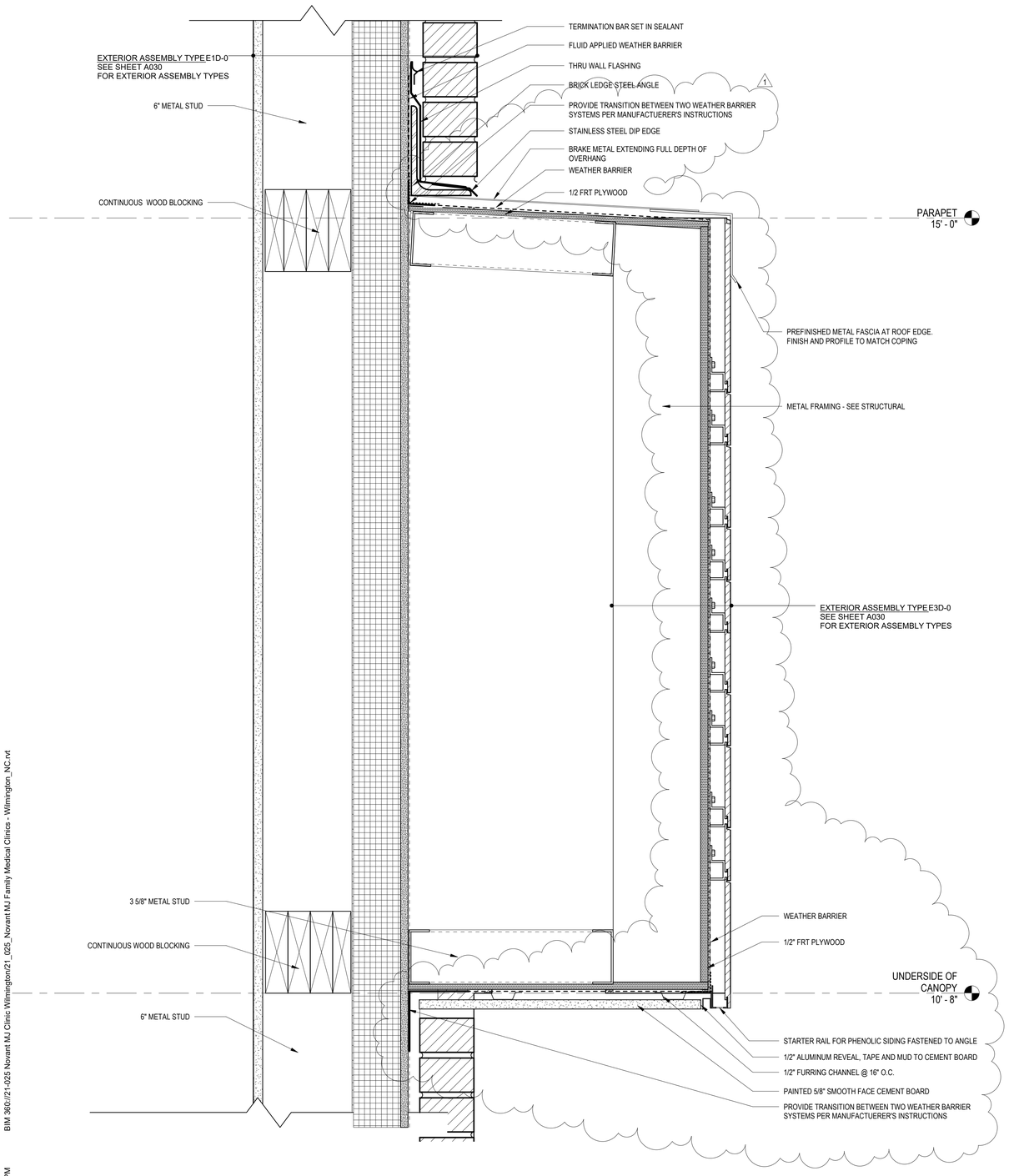
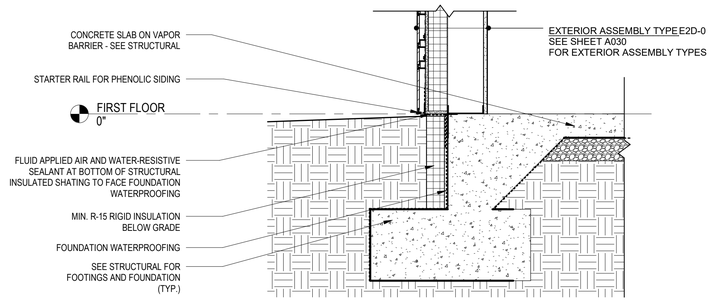


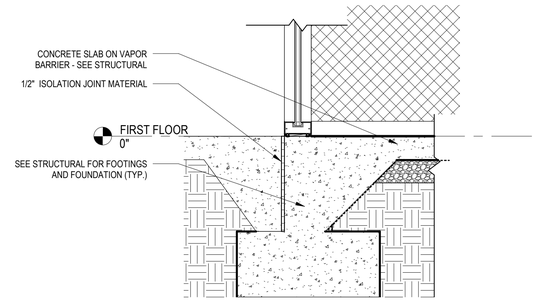
6 A503 **ROOF OVERHANG DETAIL AT ART WALL**

SCALE: 3" = 1'-0" R.E. = 1/A352



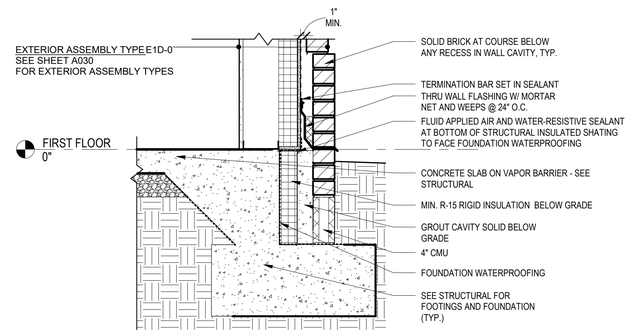
2 A503 **TYP. FOUNDATION DETAIL AT EXTERIOR WALL TYPE E2**

SCALE: 1" = 1'-0" R.E. = 3/A351



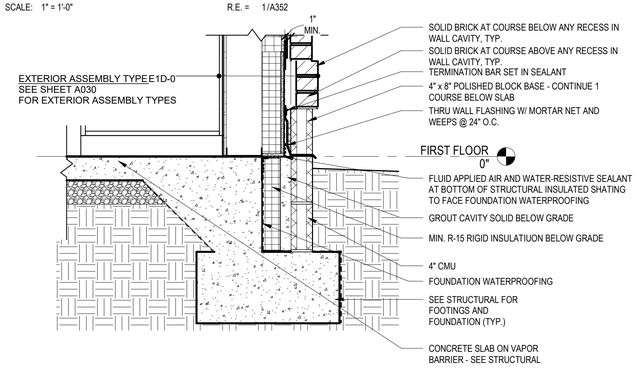
4 A503 **TYP. FOUNDATION DETAIL AT STOREFRONT**

SCALE: 1" = 1'-0" R.E. = 1/A354



5 A503 **TYP. WALL FOUNDATION DETAIL AT EXTERIOR WALL TYPE E1**

SCALE: 1" = 1'-0" R.E. = 1/A352



3 A503 **ALT. WALL FOUNDATION DETAIL AT EXTERIOR WALL TYPE E1**

SCALE: 1" = 1'-0" R.E. = 1/A353

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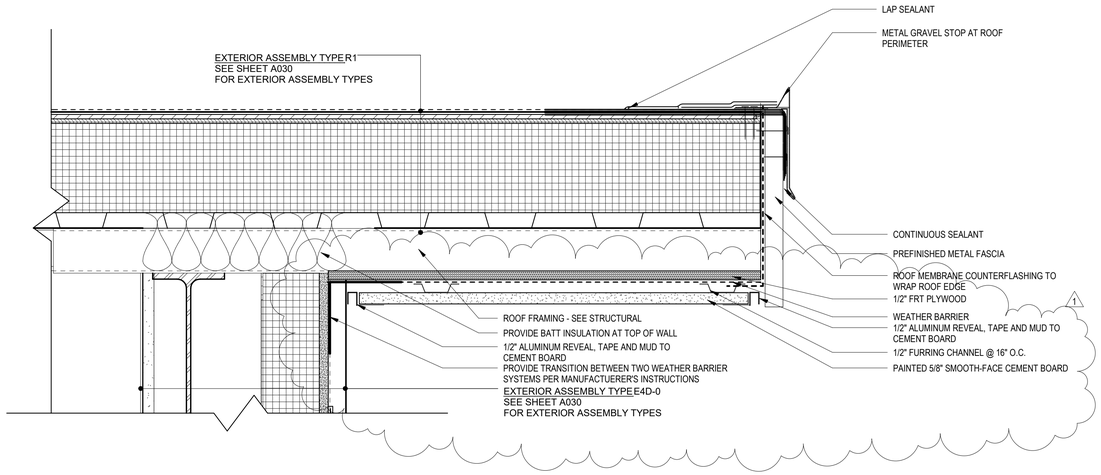
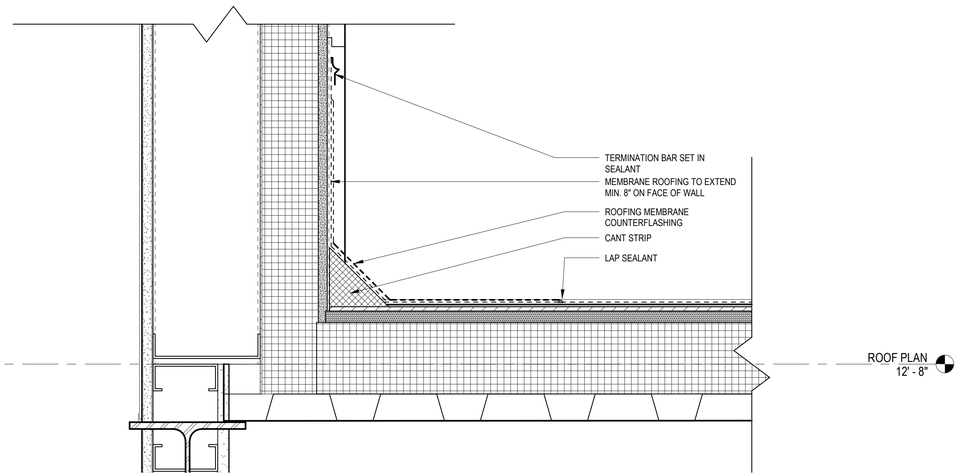
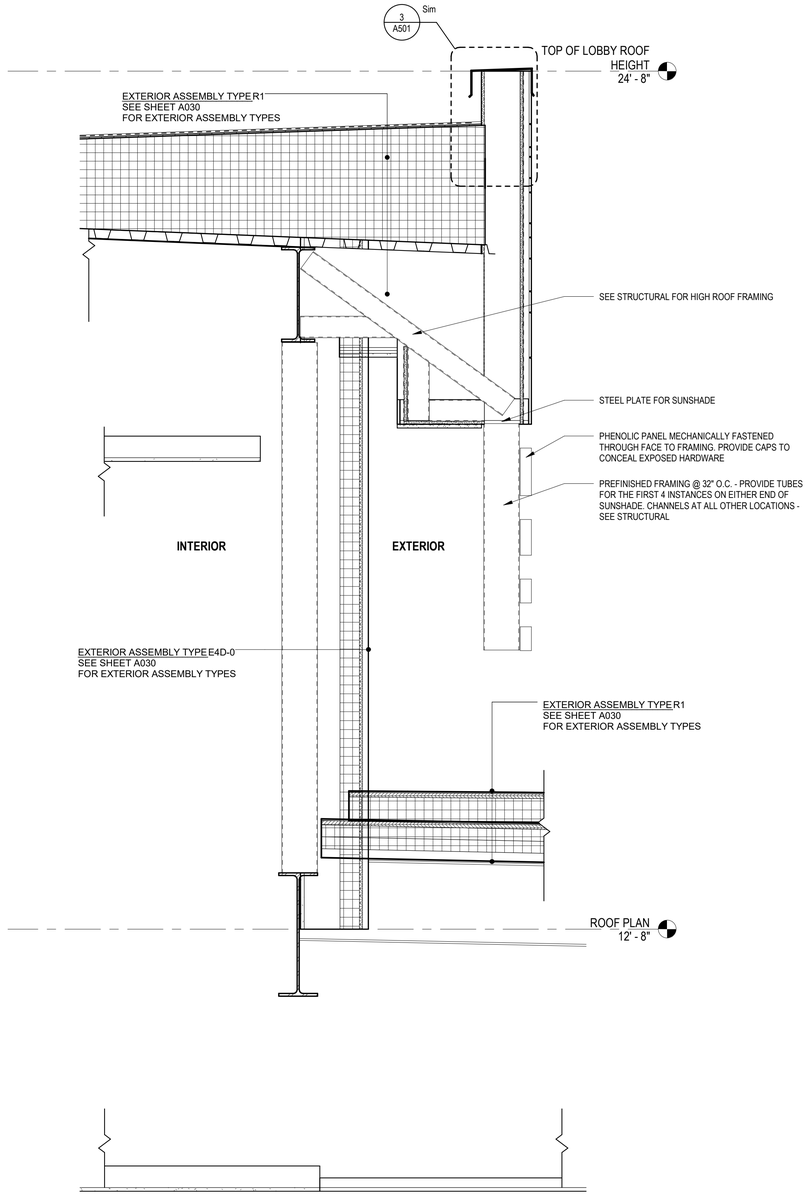




2 A504 **SECTION THROUGH NURSE STATION CLERESTORY**

SCALE: 3" = 1'-0" R.E. = 1/A301



1 A504 **SECTION THROUGH LOBBY SUN SHADE**

SCALE: 1" = 1'-0" R.E. = 1/A131

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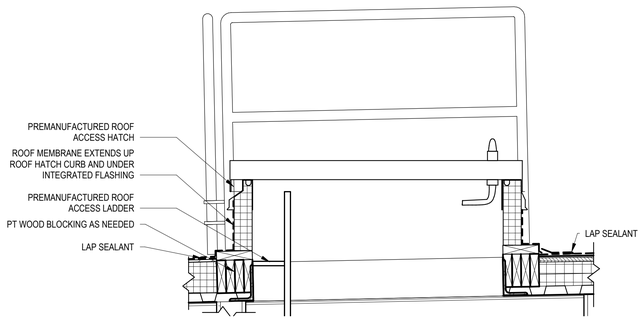
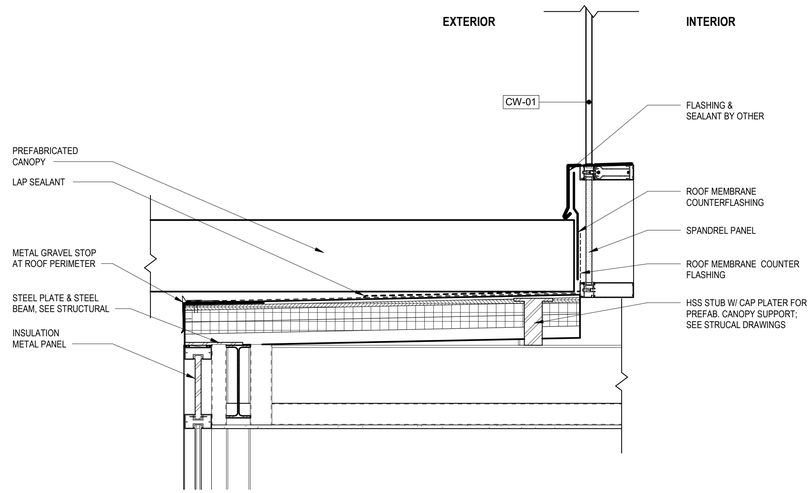


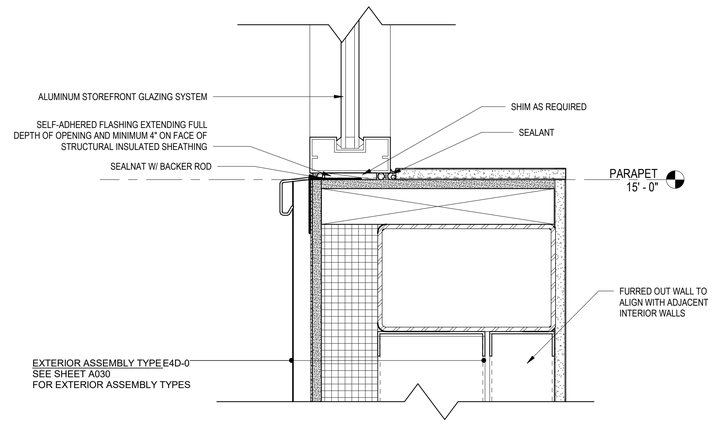
4 A505 ROOF HATCH SECTION DETAIL

SCALE: 1" = 1'-0" R.E. = 1/A131



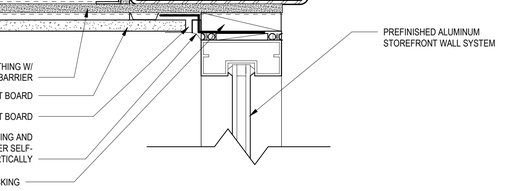
3 A505 SECTION THROUGH THE VESTIBULE & PREFAB. CANOPY

SCALE: 1" = 1'-0" R.E. = 1/A111



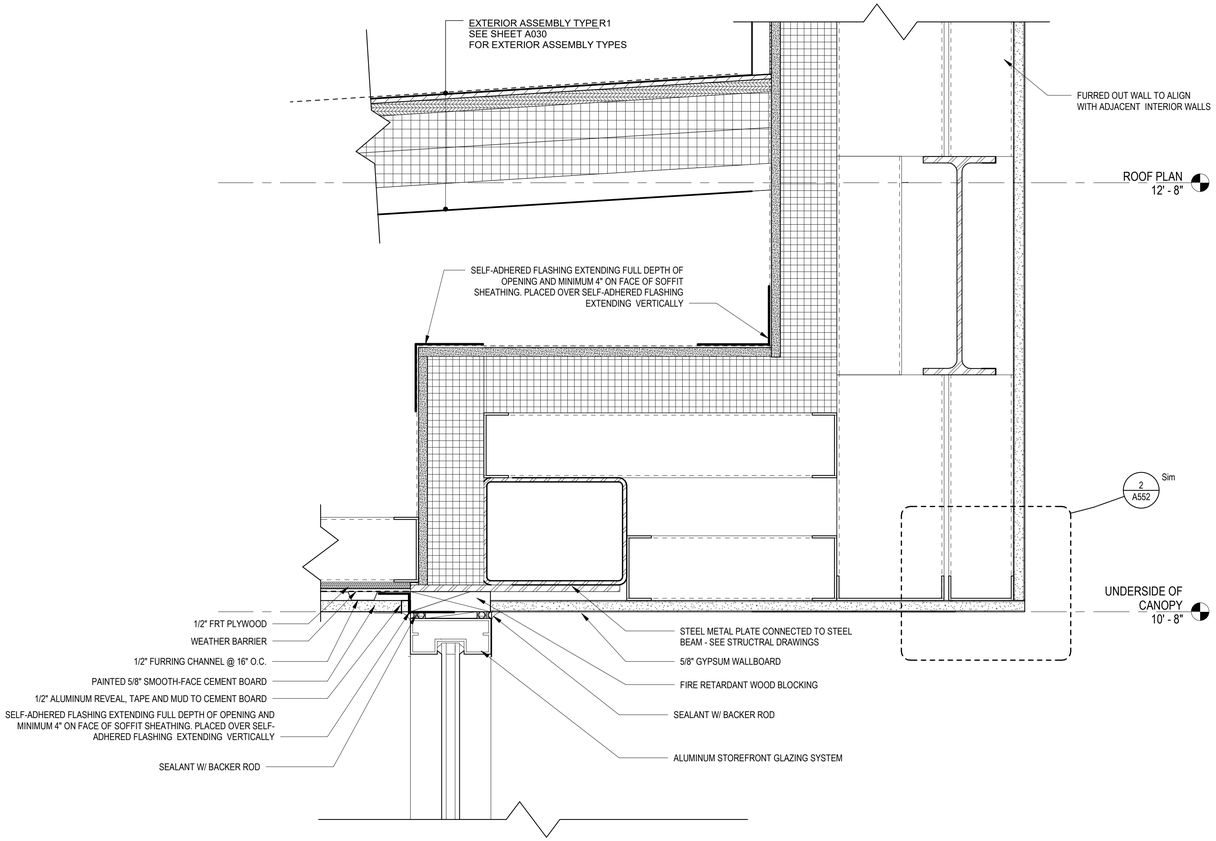
2 A505 SILL DETAIL AT CLERESTORY STOREFRONT

SCALE: 3" = 1'-0" R.E. = 2/A352



5 A505 SECTION DETAIL AT HIGHROOF STOREFRONT

SCALE: 3" = 1'-0" R.E. = 1/A354



1 A505 TYP. HEAD DETAIL @ LOBBY SOFFIT

SCALE: 3" = 1'-0" R.E. = 2/A352

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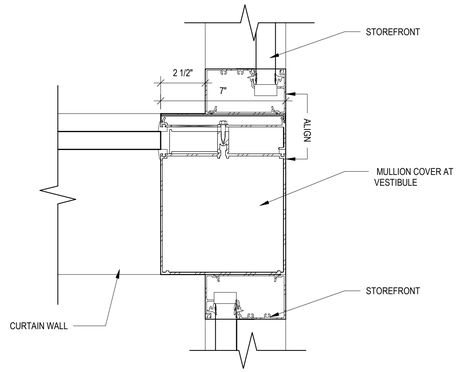
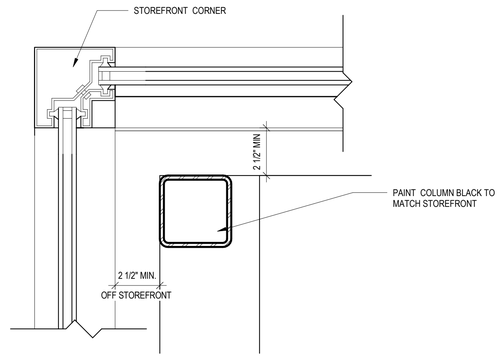


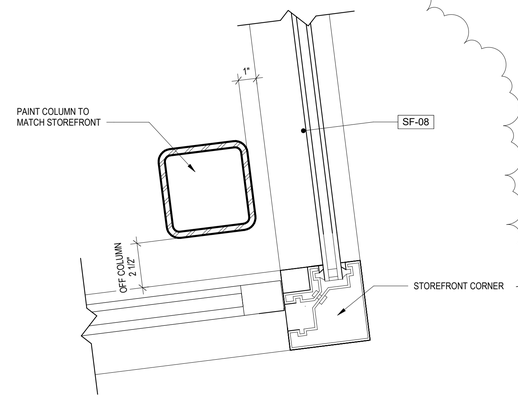
5 A511 **PLAN DETAIL @ VESTIBULE STOREFRONT & CURTAIN WALL**

SCALE: 3" = 1'-0" R.E. = 1/A111



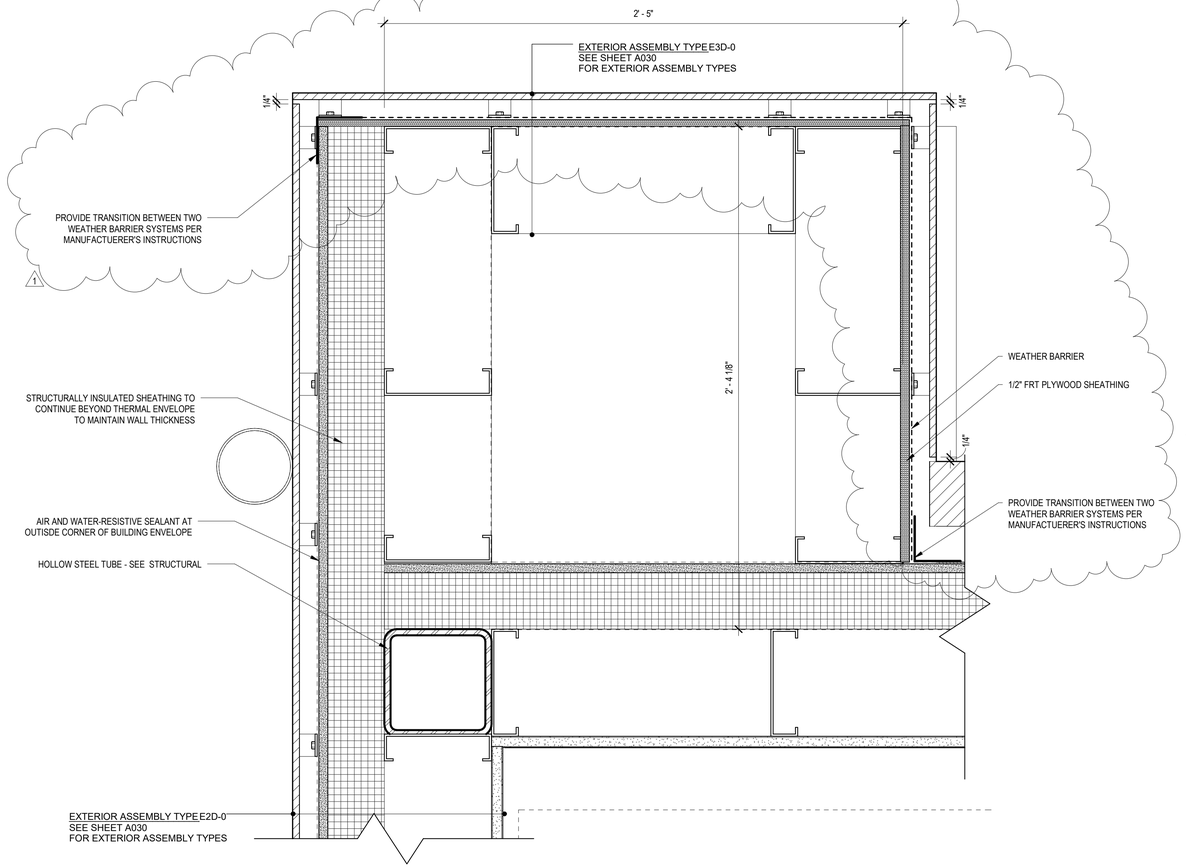
3 A511 **TYP. PLAN DETAIL AT COLUMN & STOREFRONT CORNER**

SCALE: 3" = 1'-0" R.E. = 1/A111



4 A511 **PLAN DETAIL AT COLUMN & STOREFRONT-08**

SCALE: 3" = 1'-0" R.E. = 1/A111



1 A511 **TYPICAL EXTERIOR CORNER DETAIL**

SCALE: 3" = 1'-0" R.E. = 1/A112

2 A511 **EXTERIOR INNER CORNER DETAIL**

SCALE: 3" = 1'-0" R.E. = 1/A111

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FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

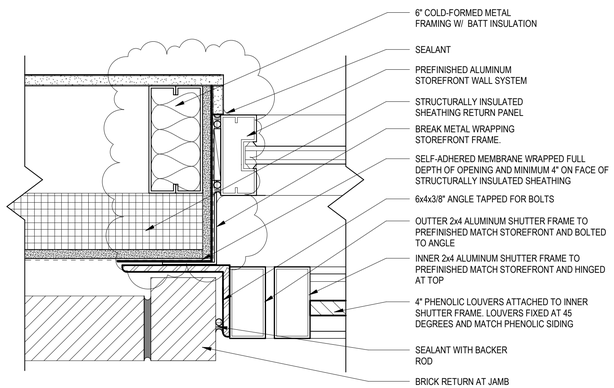
100% CONSTRUCTION DOCUMENTS

PLAN DETAILS

ISSUE DATE 10/28/2022
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-025

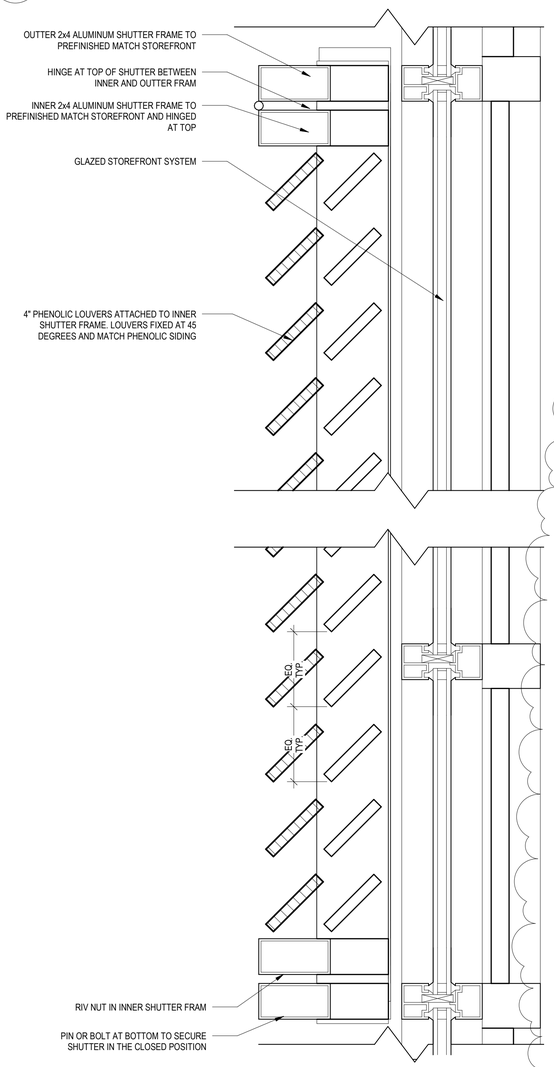
A511

10/28/2022 5:25:19 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt



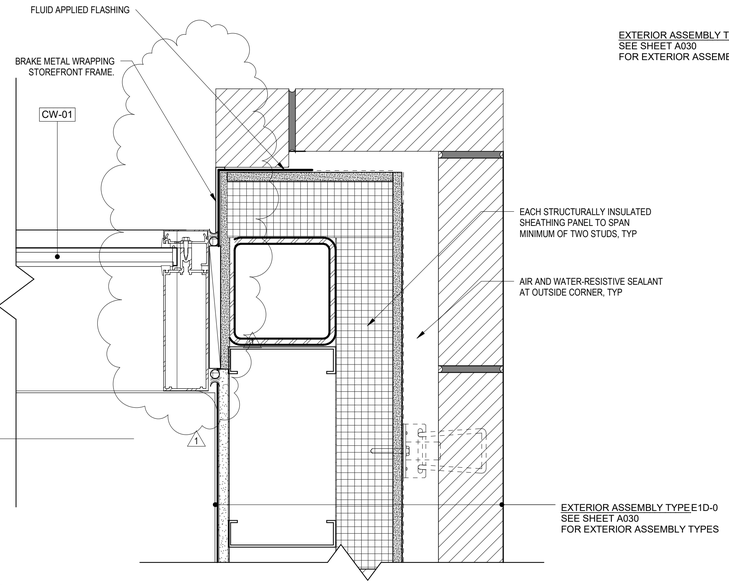
5 A512 EXAM ROOM SHUTTER JAMB DETAIL

SCALE: 3" = 1'-0" R.E. = 4/A404



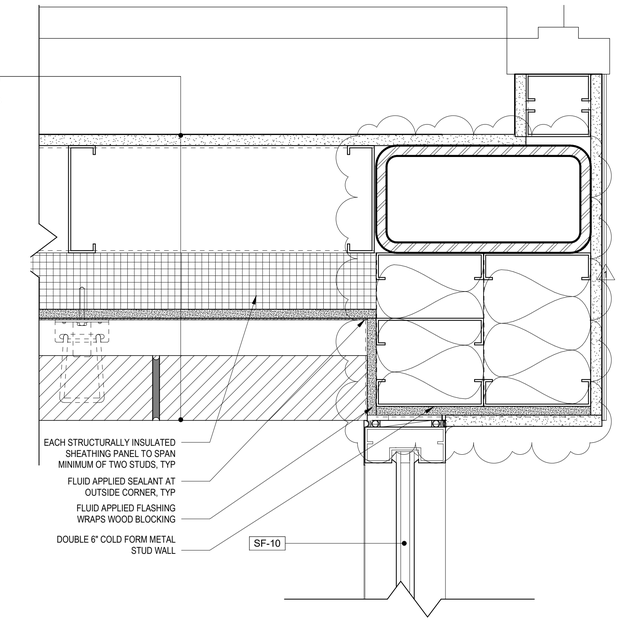
4 A512 SECTION DETAIL AT EXAM ROOM SHUTTER

SCALE: 3" = 1'-0" R.E. = 2/A351



1 A512 CURTAIN WALL JAMB @ OUTER CORNER

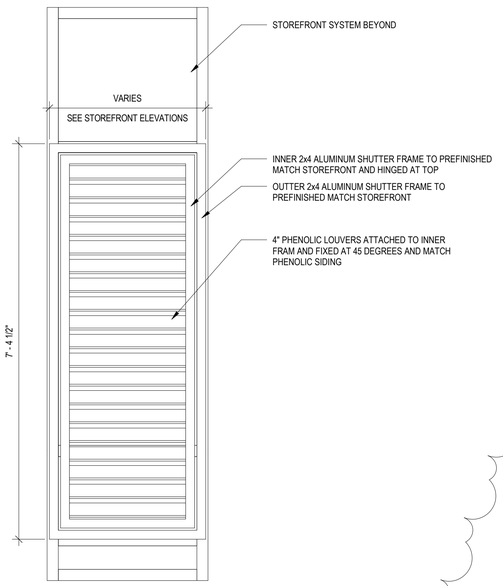
SCALE: 3" = 1'-0" R.E. = 1/A111



3 A512 EXTERIOR CURTAIN WALL JAMB DETAIL @ CORNER

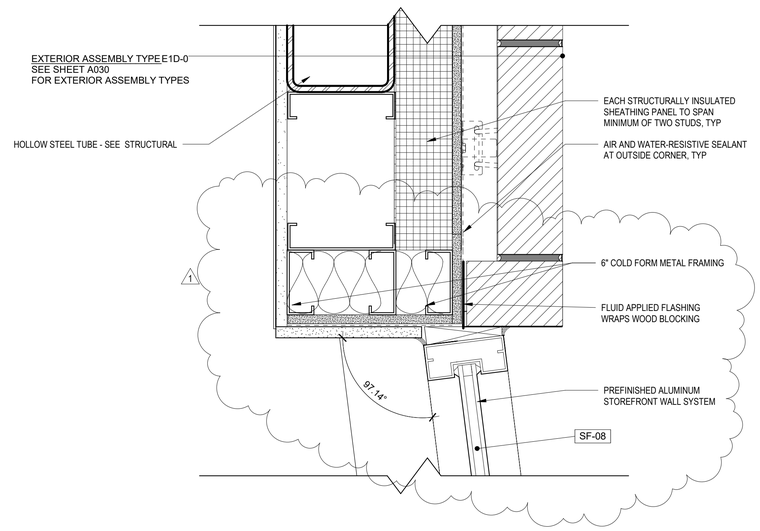
SCALE: 3" = 1'-0" R.E. = 1/A111

NOTE REGARDING EXAM ROOM SHUTTERS:
The Exam Room shutters are a custom product and require a delegated design submittal based on the design intent shown per the elevations and shutter details shown on sheet A512. Contractor is to provide shop drawings indicating a comprehensive engineering analysis of the shutter design by a qualified professional engineer, as defined in Section 014000 "Quality Requirements".



6 A512 TYPICAL EXAM ROOM SHUTTER ELEVATION

SCALE: 3/4" = 1'-0"



2 A512 EXTERIOR CURTAIN WALL JAMB DETAIL @ ANGLE

SCALE: 3" = 1'-0" R.E. = 1/A111

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

PLAN DETAILS

ISSUE DATE 10/28/2022
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PROJECT NUMBER 21-025

A512

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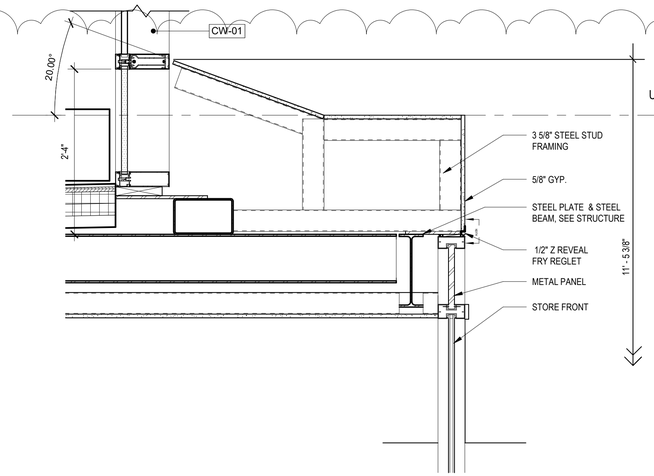
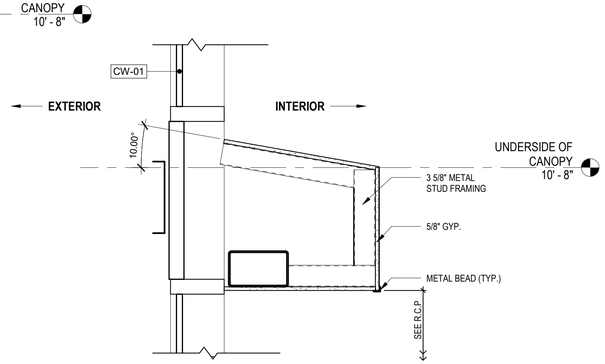


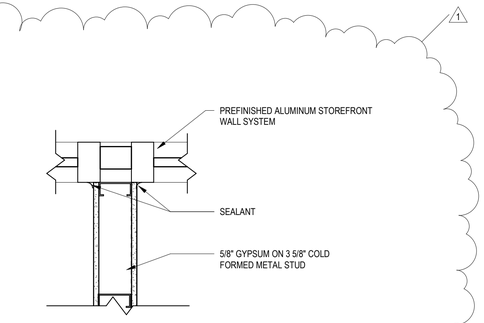
8 A551 SOFFIT DETAIL AT VESTIBULE

SCALE: 1" = 1'-0" R.E. = 1/A111



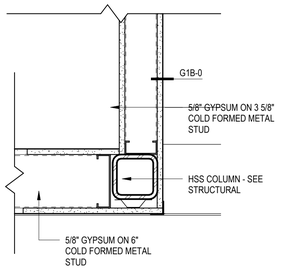
9 A551 SOFFIT DETAIL AT WAITING ROOM

SCALE: 1" = 1'-0" R.E. = 1/A131



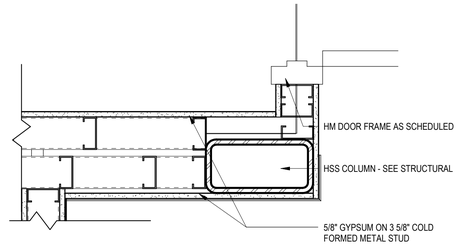
7 A551 WALL TO STOREFRONT TERMINATION DETAIL

SCALE: 1 1/2" = 1'-0" R.E. = 1/A111



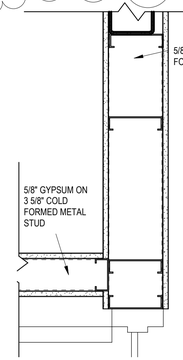
6 A551 COLUMN DETAIL @ B, 5

SCALE: 1 1/2" = 1'-0" R.E. = 1/A111



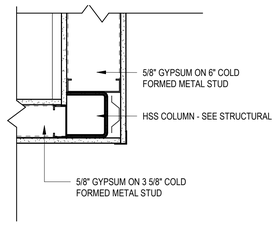
5 A551 COLUMN DETAIL @ C, 5

SCALE: 1 1/2" = 1'-0" R.E. = 1/A111



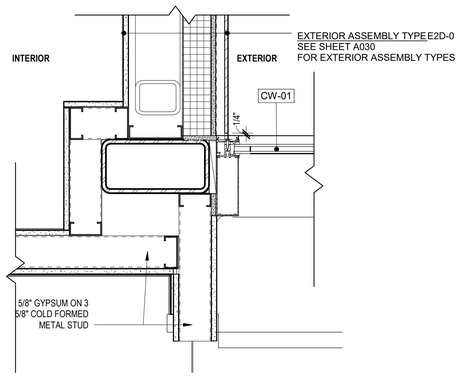
4 A551 TYP. COLUMN DETAIL @ VITALS

SCALE: 1 1/2" = 1'-0" R.E. = 1/A111



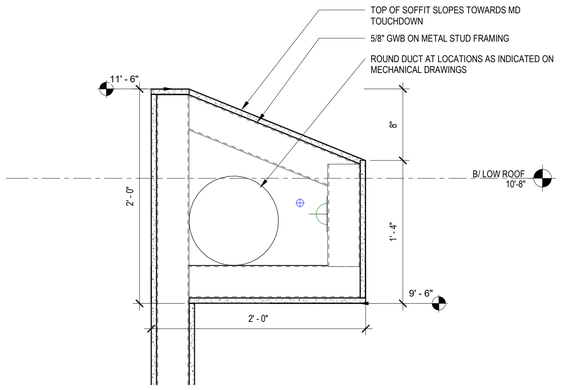
3 A551 TYP. COLUMN DETAIL @ NURSE STATION

SCALE: 1 1/2" = 1'-0" R.E. = 1/A112



2 A551 COLUMN DETAIL @ A.5, 5

SCALE: 1 1/2" = 1'-0" R.E. = 1/A111



1 A551 NURSE STATION BULKHEAD

SCALE: 1 1/2" = 1'-0" R.E. = 1/A132

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10.28.2022

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INTERIOR DETAILS

ISSUE DATE 10/28/2022

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SHEET BY Author

PROJECT NUMBER 21-025

A551

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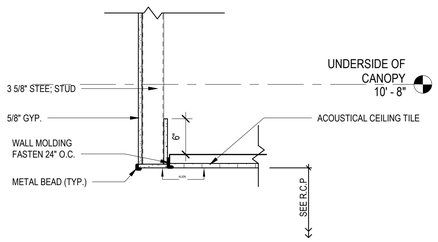
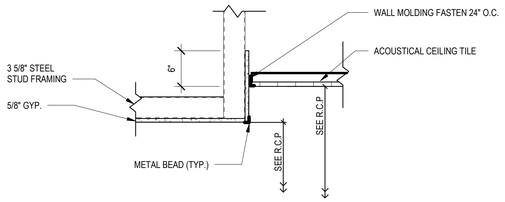


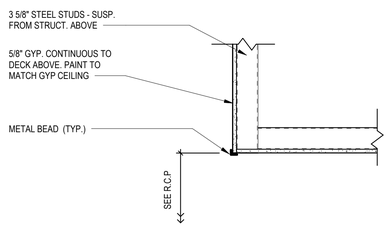
4 A552 SOFFIT DETAIL AT NURSE STATION

SCALE: 1" = 1'-0" R.E. = 1/A132



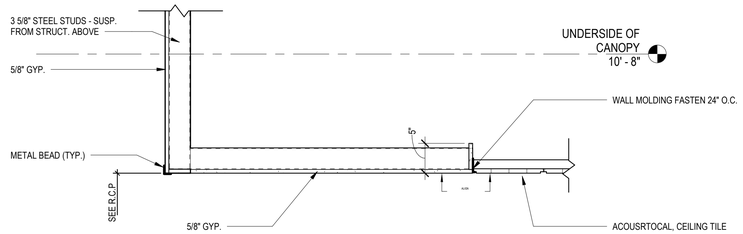
3 A552 SOFFIT DETAIL AT SUSP. CEILING

SCALE: 1" = 1'-0" R.E. = 1/A111



2 A552 SOFFIT DETAIL AT GYP. CEILING

SCALE: 1" = 1'-0" R.E. = 1/100



1 A552 SOFFIT DETAIL AT RECEPTION

SCALE: 1" = 1'-0" R.E. = 1/100

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1

INTERIOR DETAILS

ISSUE DATE 10/28/2022
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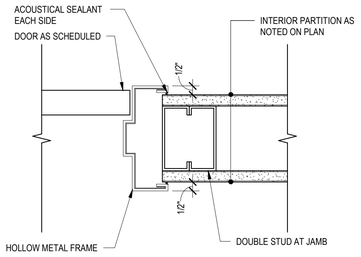
PROJECT NUMBER 21-025

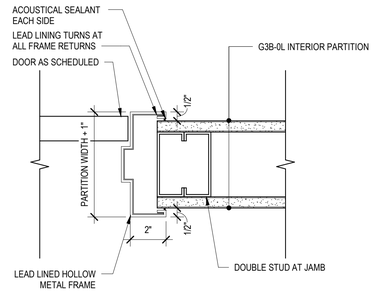
A552

DOOR SCHEDULE

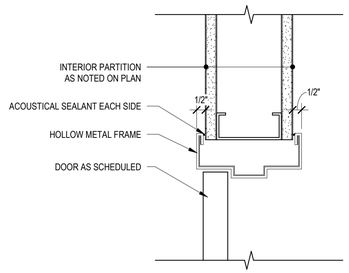
DOOR NO.	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	FIRE RATING	LOCKSET TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME JAMB	FRAME HEAD	COMMENTS
102A	M	3' - 6"	7' - 0"	1 3/4"	WD		18	F1	HM				CARD READER, CLOSER, FREE EGRESS
102B	M	3' - 6"	7' - 0"	1 3/4"	WD		19	F1	HM				CARD READER, CLOSER, FREE EGRESS
104	O	3' - 0"	7' - 0"	1 3/4"	WD		8	F1	HM				
106	F	3' - 0"	7' - 0"	1 3/4"	WD		14	F1	HM				FREE EGRESS
107	F	3' - 0"	7' - 0"	1 3/4"	WD		17	F1	HM				CARD READER
108	N	3' - 0"	7' - 0"	1 3/4"	WD		12	F1	HM				
109	F	3' - 0"	7' - 0"	1 3/4"	WD		CLASSROOM	F1	HM				
110	L	3' - 6"	1' - 0 19/32"										
111	F	3' - 6"	7' - 0"	1 3/4"	WD		9	F1	HM				
114	F	3' - 0"	7' - 0"	1 3/4"	WD		7	F1	HM				
115	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
117	F	3' - 0"	7' - 0"	1 3/4"	WD		8	F1	HM				
118	F	3' - 6"	7' - 0"	1 3/4"	WD		6	F1	HM				
119	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
120	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
121	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
122	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
123	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
124	F	3' - 0"	7' - 0"	1 3/4"	WD		11	F1	HM				
125	F	3' - 0"	7' - 0"	1 3/4"	WD		8	F1	HM				
126	F	3' - 0"	7' - 0"	1 3/4"	WD		14	F1	HM				
128	F	3' - 0"	7' - 0"	1 3/4"	WD		14	F1	HM				
130	F	3' - 0"	7' - 0"	1 3/4"	WD		16	F1	HM				PANIC HARDWARE
131	F	3' - 0"	7' - 0"	1 3/4"	WD		8	F1	HM				
132	N	3' - 0"	7' - 0"	1 3/4"	WD		4	F1	HM				
133	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
134	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
135	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
136	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
137	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
138	F	3' - 0"	7' - 0"	1 3/4"	WD		5	F1	HM				
141	F	3' - 0"	7' - 0"	1 3/4"	WD		14	F1	HM				
143	BD	3' - 0"	7' - 0"	1 3/4"	WD		20	F1	HM				BARN DOOR
144	F	3' - 0"	7' - 0"	1 3/4"	WD		8	F1	HM				
145	F	3' - 0"	7' - 0"	1 3/4"	WD		15	F1	HM				180 DEGREE SWING, PANIC HARDWARE
147	F	3' - 0"	7' - 0"	1 3/4"	WD		10	F1	HM				
148	F	3' - 0"	7' - 0"	1 3/4"	WD		10	F1	HM				
149	F	3' - 0"	7' - 0"	1 3/4"	WD		4	F1	HM				
150	F	3' - 0"	7' - 0"	1 3/4"	WD		12	F1	HM				
E101A	S	5' - 9 1/2"	7' - 9 3/4"		AL/GL		1			CLEAR ANODIZED			BREAKAWAY AUTOMATIC SLIDING DOOR
E101B	S	5' - 9 1/2"	7' - 9 3/4"		AL/GL		1			CLEAR ANODIZED			BREAKAWAY AUTOMATIC SLIDING DOOR
E103A	S	6' - 10"	7' - 7 1/4"		AL/GL		1			CLEAR ANODIZED			BREAKAWAY AUTOMATIC SLIDING DOOR
E103B	S	7' - 0 13/16"	7' - 7 1/4"		AL/GL					CLEAR ANODIZED			BREAKAWAY AUTOMATIC SLIDING DOOR
E104	F	3' - 6"	7' - 0"	1 3/4"	AL		2			CLEAR ANODIZED			PANIC HARDWARE
E105	FG	3' - 0"	7' - 0"		AL/GL		3			CLEAR ANODIZED			PANIC HARDWARE, CARD READER



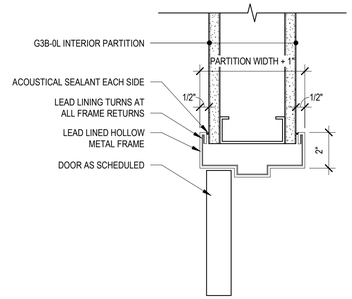
3 A601 **INTERIOR JAMB DETAILS**
SCALE: 3" = 1'-0" R.E. = /



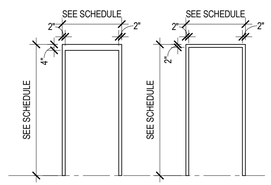
2 A601 **INTERIOR JAMB - LEAD LINED**
SCALE: 3" = 1'-0" R.E. = /



4 A601 **INTERIOR HEAD DETAILS**
SCALE: 3" = 1'-0" R.E. = /



1 A601 **INTERIOR HEAD - LEAD LINED**
SCALE: 3" = 1'-0" R.E. = /

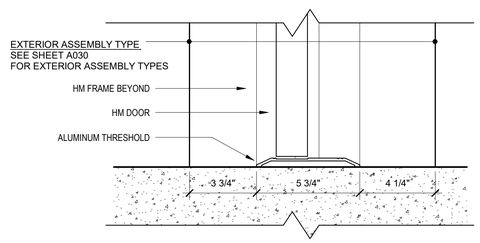


DOOR FRAME ELEVATIONS
SCALE: 1/4" = 1'-0"

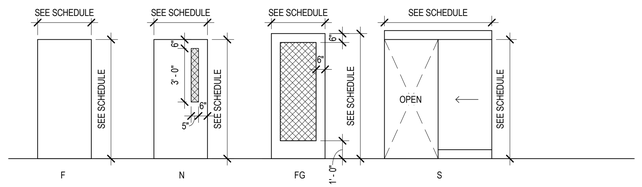
GLAZING LEGEND

- CLEAR GLASS
- TEMPERED GLASS
- INSULATED METAL PANEL

NOTES:
1. GLASS WITHIN 24" RADIUS OF A DOOR TO BE TEMPERED.
2. GLASS WITHIN DOOR TO BE TEMPERED.
3. ALL GLAZING IN CURTAIN WALL AND STOREFRONT TO BE 1" INSULATED.
4. ALL DOOR GLAZING TO BE 1" INSULATED .
5. ALL EXTERIOR GLAZING SHALL MATCH MAXIMUM U-VALUE FACTORS AND SHGC AS INDICATED IN THERMAL ENVELOPE ON SHEET A001A.



5 A601 **HM DOOR SILL DETAIL**
SCALE: 3" = 1'-0" R.E. = /



DOOR TYPE ELEVATIONS_MJ
1/4" = 1'-0"

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FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

DOOR SCHEDULE AND DETAILS

ISSUE DATE 10/28/2022
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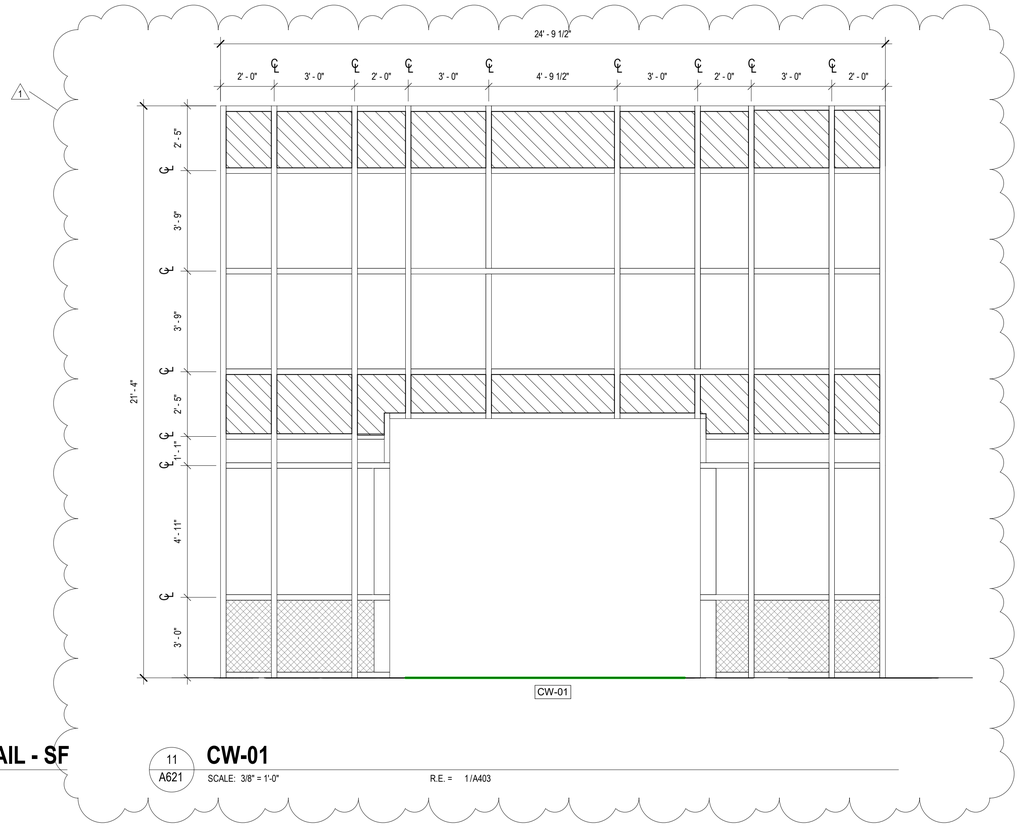
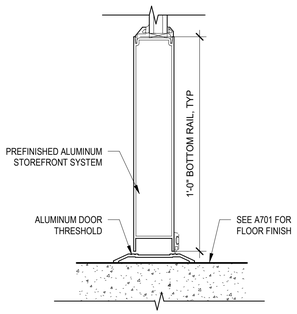
SHEET BY Author
PROJECT NUMBER 21-025

A601

10/28/2022 5:25:23 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt

WINDOW SCHEDULE														
TYPE MARK	R.O. WIDTH	R.O. HEIGHT	WINDOW TYPE	MANUFACTURER / REP.	MODEL NO.	MATERIAL	FINISH	HEAD	JAMB	SILL	GLAZING THICKNESS	GLAZING TYPE	HEAD HEIGHT	COMMENTS
101	4' - 0"	4' - 6"	Interior_Sliding_Aluminum_Transaction_Window_17731										7' - 6"	
101	4' - 0"	4' - 6"	Interior_Sliding_Aluminum_Transaction_Window_17731										7' - 6"	

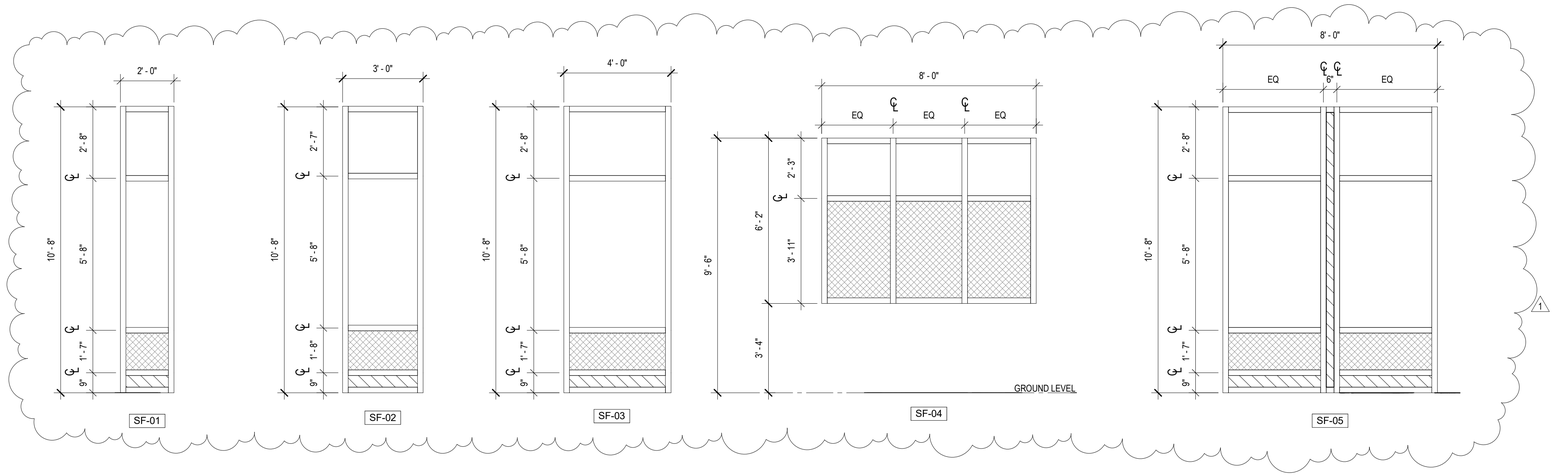




9 / A621 **TYPICAL STOREFRONT DOOR SILL DETAIL 2**
SCALE: 3" = 1'-0" R.E. = /

10 / A621 **TYPICAL STOREFRONT DOOR JAMB/HEAD DETAIL - SF**
SCALE: 3" = 1'-0" R.E. = /

11 / A621 **CW-01**
SCALE: 3/8" = 1'-0" R.E. = 1 / A403



GLAZING LEGEND

- CLEAR GLASS
- TEMPERED GLASS
- INSULATED METAL PANEL

NOTES:
1. GLASS WITHIN 24" RADIUS OF A DOOR TO BE TEMPERED.
2. GLASS WITHIN DOOR TO BE TEMPERED.
3. ALL GLAZING IN CURTAIN WALL AND STOREFRONT TO BE 1" INSULATED.
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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

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WINDOW & STOREFRONT ELEVATIONS AND DETAILS

ISSUE DATE 10/28/2022
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PROJECT NUMBER 21-025

A621

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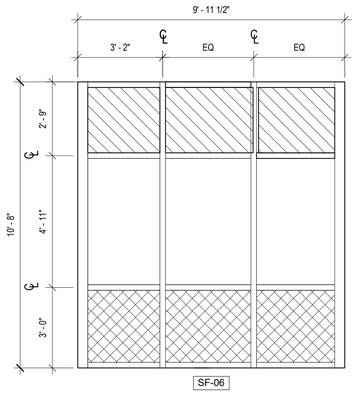
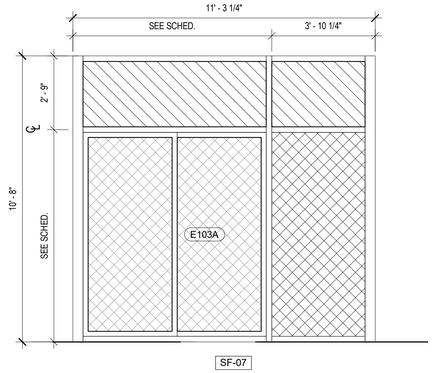


SF-06



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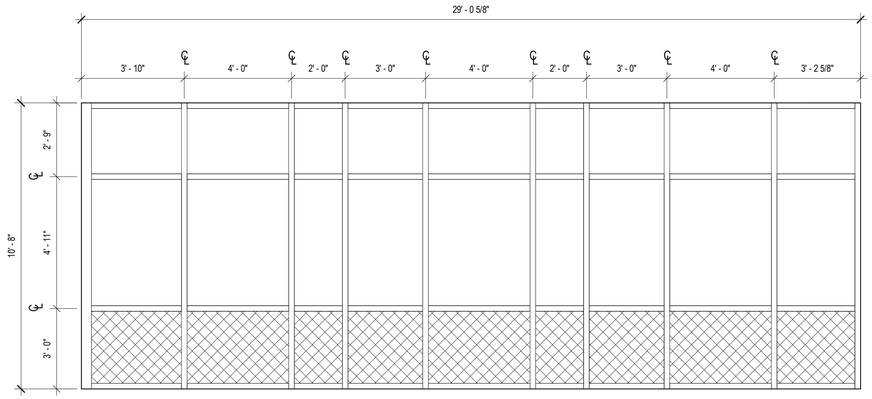

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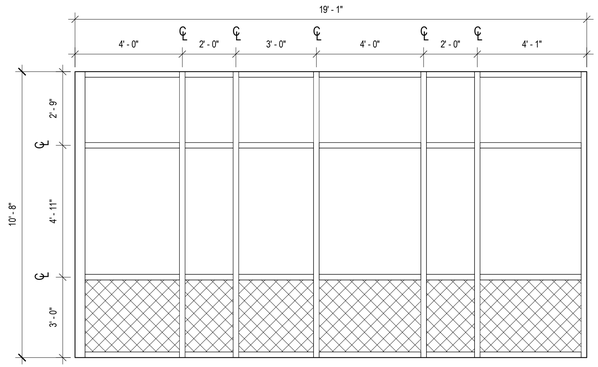
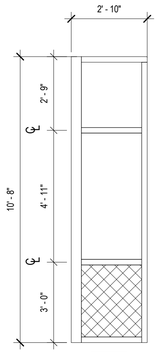


SF-09



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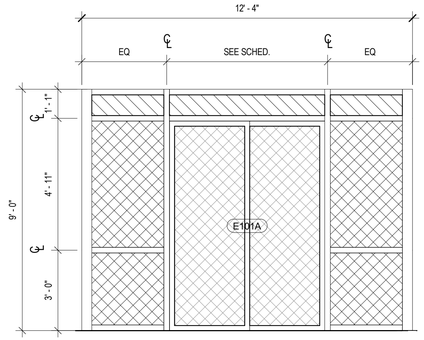

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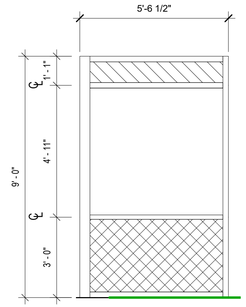

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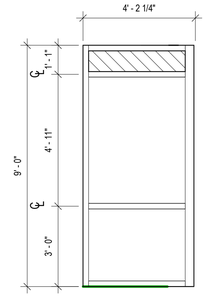

SF-13

GLAZING LEGEND

- CLEAR GLASS
- TEMPERED GLASS
- INSULATED METAL PANEL

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

STOREFRONT ELEVATIONS

ISSUE DATE 10/28/2022
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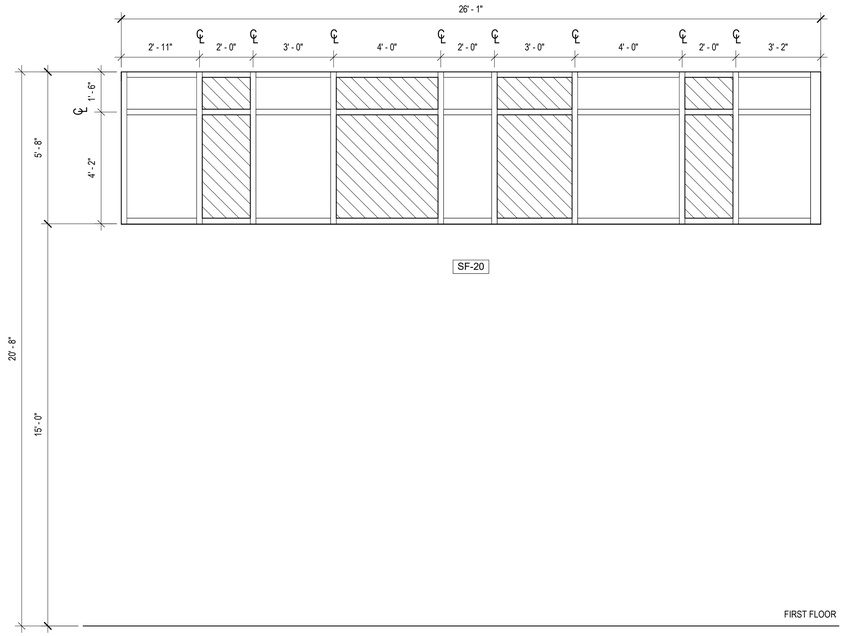
SHEET BY Author
PROJECT NUMBER 21-025

A622

10/28/2022 5:25:26 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt



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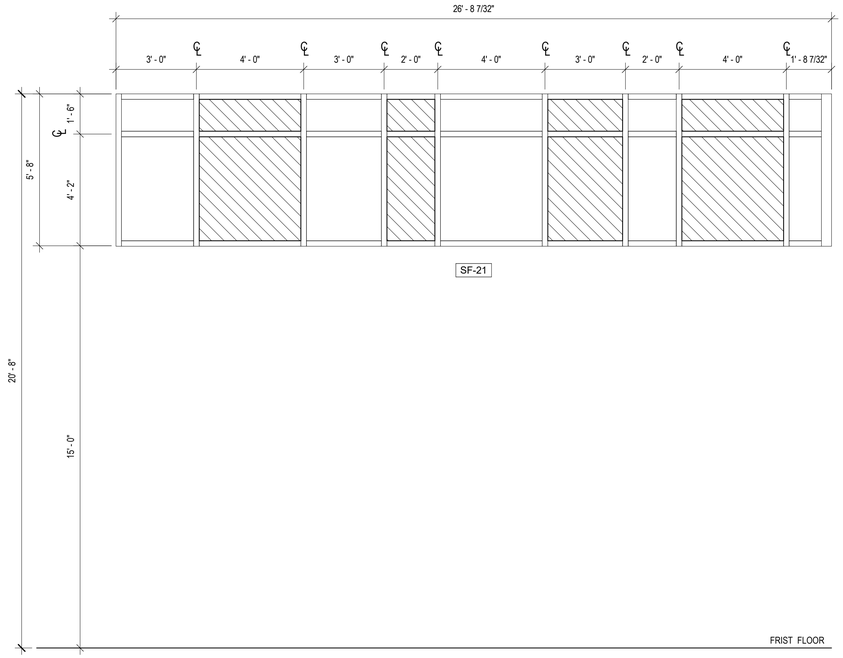

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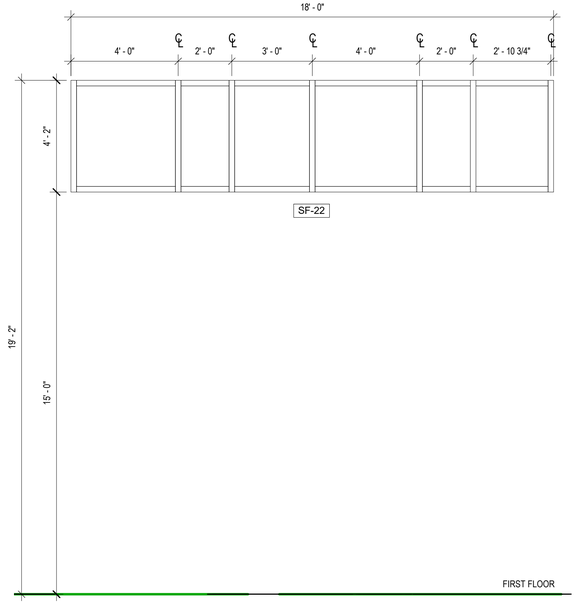

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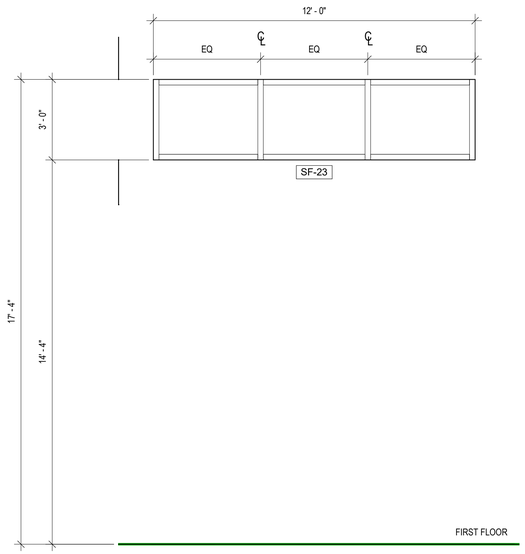

SF-23

GLAZING LEGEND

CLEAR GLASS

TEMPERED GLASS

INSULATED METAL PANEL

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REGISTERED ARCHITECT
NORTH CAROLINA
MOORESVILLE, N. C.
9404

10/28/22

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

1

STOREFRONT ELEVATIONS

ISSUE DATE 10/28/2022
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PROJECT NUMBER 21-025

A623

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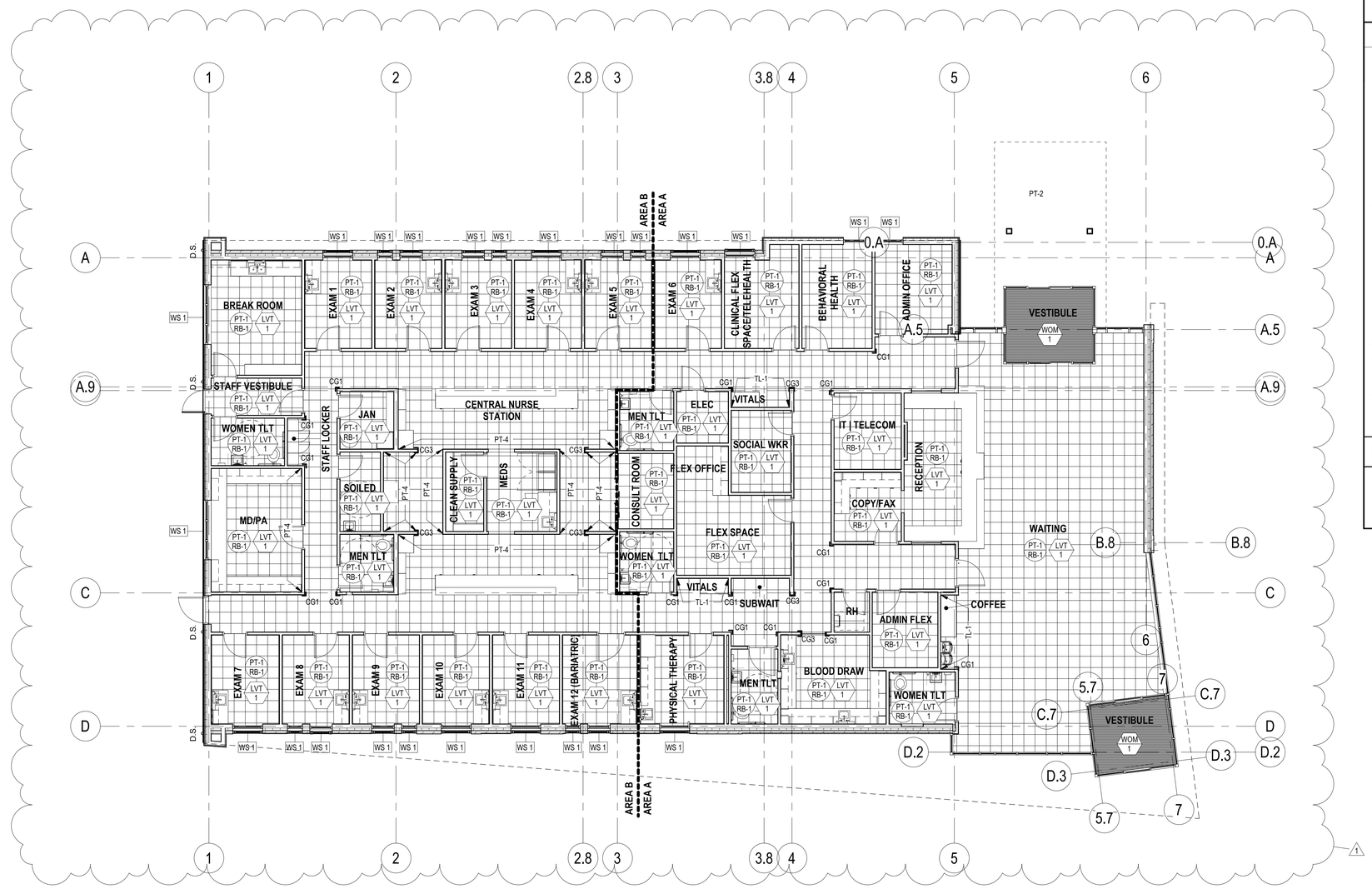

1 A701 **FIRST FLOOR FINISH PLAN**

SCALE: 1/8" = 1'-0" R.E. = 1/A201

FINISH SYMBOL LEGEND

XXX / X — FLOOR FINISH CODE / FLOOR FINISH NUMBER

XX-X — MISC. FINISH EXTENT

XX-X / XX-X — GENERAL ROOM WALL FINISH / GENERAL ROOM WALL BASE

1 — FLOOR FINISH TRANSITION

CORNER GUARD (SEE FINISH LEGEND)

LVT 1 STAGGERED | LVT 2 | LVT 3

WOM 1

FLOOR FINISH TRANSITION LEGEND

1. **WALK OFF MAT TO LVT** TO RECEIVE JOHNSONITE EG-XX-G TRANSITION STRIP #29 MOON ROCK
2. **LVT TO CARPET** TO RECEIVE JOHNSONITE EG-XX-G TRANSITION STRIP #29 MOON ROCK
3. **LVT TO RUBBER FLOOR** TO RECIEVE JOHNSONITE RRS-XX-C TRANSITION STRIP #29 MOON ROCK

GENERAL FINISH NOTES

1. REFER TO SHEET **A721** FOR FINISH SCHEDULE
2. ALL FINISHES SPECIFIED HERein ARE B.O.D. GENERAL CONTRACTOR TO PROVIDE ALL INTERIOR FINISHES AS SPECIFIED HEREIN. ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR OMISSIONS PRIOR TO PROCEEDING WITH WORK.
3. GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF HIS MEASUREMENTS AND TOTAL YARDAGE REQUIREMENTS TO BE FURNISHED. NO REQUEST FOR MATERIALS OR INSTALLATION EXTRAS WILL BE CONSIDERED DUE TO MEASUREMENT OR TAKEOFF ERRORS BY CONTRACTOR.
4. MAXIMUM HEIGHT DIFFERENCE BETWEEN FLOOR COVERING SURFACE SHALL BE 1/4".
5. ALL INTERIOR FLOOR FINISHES SHALL NOT BE LESS THAN CLASS II (0.22 WATTS/CM SQ.) FOR MINIMUM CRITICAL RADIANT FLUX IN ACCORDANCE WITH NFPA 253.
6. VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1" FOR EVERY 10'-0" SHALL BE LEVELED BY CONTRACTOR. LEVELING SHALL BE COMPLTED WITH FLOOR READY TO RECEIVE NEW FINISHES AS SPECIFIED. CONTRACTOR SHALL VERIFY SLAB CONDITION PRIOR TO BID SUBMISSION.
7. ALL MISCELLANEOUS GRILLES, PLATES, OR OTHER DEVICES SHALL BE PAINTED TO MATCH THE WALL OR CEILING IN WHICH THEY ARE INSTALLED.
8. ALL WALL BASE AND TRIM TO RECEIVE GLOSS LEVEL 5 FINISH, UNLESS OTHERWISE NOTED.
9. ALL FINISHED GYP. BD. WALLS TO BE PAINTED GLOSS LEVEL 3 FINISH, UNLESS OTHERWISE NOTED. REFER TO FINISH PLANS FOR ACCENT PAINT LOCATIONS, TYP.
10. ALL GYP. BD. CEILINGS TO BE PAINTED GLOSS LEVEL 1 FINISH, UNLESS OTHERWISE NOTED.
11. FLOORING TRANSITIONS OCCUR AT CENTER OF DOOR OPENING, UNLESS OTHERWISE NOTED.
12. ALL TRANSITIONS BETWEEN MATERIALS SHALL BE SMOOTH.
13. REPLACE ALL ELECTRICAL SWITCH PLATES AND COVER PLATES, ETC. TO BE STAINLESS.
14. GENERAL CONTRACTOR TO PROVIDE MANUFACTURER'S RECOMMENDED FACTORY FORMULATED UNDERCOAT MATERIAL (SKIM COAT) COMPATIBLE WITH FINISH MATERIAL INDICATED ON SCHEDULE.

ALL INTERIOR FINISHES TO MEET TABLE 803.5 OF THE IBC AND TABLE 803.3 OF THE IFC:

A) ALL **EXIT ENCLOSURES** AND EXIT PASSAGEWAYS SHALL HAVE A MIN. OF **CLASS-B** FINISHES:
(FLAME SPREAD = 26-75max | SMOKE DEVELOPED = 0-450max)
B) ALL **CORRIDORS** SHALL HAVE A MINIMUM OF **CLASS-C** FINISHES:
(FLAME SPREAD = 76-200max | SMOKE DEVELOPED = 0-450max)
C) ALL **ROOMS** AND ENCLOSED SPACES SHALL HAVE A MINIMUM OF **CLASS-C** FINISHES:
(FLAME SPREAD = 76-200max | SMOKE DEVELOPED = 0-450max)

FINISH KEYNOTES

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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FINISH FLOOR PLAN

ISSUE DATE 10/28/2022
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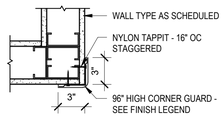
SHEET BY Author
PROJECT NUMBER 21-025

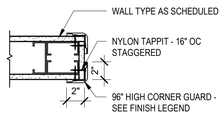
A701

10/28/2022 5:25:28 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt

FINISH LEGEND						
FINISH CODE	MANUFACTURER	TYPE/PATTERN	COLOR / FINISH	SIZE	REMARKS	PRODUCT REP
FLOOR						
LVT 1	TARKETT	CONTOUR ALUM	PCBC BROADCLOTH 0991 ALUM	18"X18"		
WOM 1	MANNINGTON	FRIXTION WALK OFF MAT	FORCE/STATIC 34365	18"X36"		
BASE						
RB 1	TARKETT JOHNSONITE	TRADITIONAL	38 PEWTER	4" H CONT ROLL		
WALL						
PT 0	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	AUBERGINE PANTONE C-269 CUSTOM SW FORMULA		BRANDING WALL COLOR	
PT 1	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	SNOWBOUND SW 7004		OVERALL PAINT, EPOXY FINISH IN RESTROOMS	
PT 2	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	WINDOW PANE SW6210		GENERAL	
PT 3	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	PAPAYA SW 6661			
PT 4	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	JASPER STONE SW 9133			
PT 5	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	RAIN SW 6219			
PT-6	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	BAMBOO SHOOT SW 7733			
PT-7	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	AFRICAN GRAY SW 9162		DOOR, TRIM, AND ACCENT PAINT. DOOR AND TRIM PAINT TO BE IN SEMIGLOSS FINISH	
TL-1	NEMO TILE	CONVERGENCE	CON02 CHARDONNAY	4"X4" ON 12"X12" MOSAIC	COFFEE BAR, VITALS NOOK	
CEILING						
ACT 1	ARMSTRONG	ULTIMA 1911	WHITE	24" x 24" x 3/4"	15/16" CEILING GRID	KAITLYN MALONEY 717-396-5972
BAF 1	TURF	TORRENT	01 CREAM	LARGE	INSTALL PER MANUFACTURER'S INSTRUCTIONS 12" O.C.	MARY KELLER COSTA 704- 280-6299
BAF 2	TURF	TORRENT	28 INDIGO	LARGE	INSTALL PER MANUFACTURER'S INSTRUCTIONS 12" O.C.	MARY KELLER COSTA 704- 280-6299
BAF 3	TURF	TORRENT	26 FADED DENIM	LARGE	INSTALL PER MANUFACTURER'S INSTRUCTIONS 12" O.C.	MARY KELLER COSTA 704- 280-6299
BAF 4	TURF	TORRENT	34 TONAL TAUPE	LARGE	INSTALL PER MANUFACTURER'S INSTRUCTIONS 12" O.C.	MARY KELLER COSTA 704- 280-6299
BAF 5	TURF	STRAIGHT	01 CREAM	6'-0"	INSTALL PER MANUFACTURER'S INSTRUCTIONS 12" O.C.	MARY KELLER COSTA 704- 280-6299
BAF-6	TURF	STRAIGHT	34 TONAL TAUPE	6'-0"	INSTALL PER MANUFACTURER'S INSTRUCTIONS 12" O.C.	MARY KELLER COSTA 704- 280-6299
PT-8	SHERWIN WILLIAMS	FLAT	PURE WHITE SW 7005		GYP CEILING PAINT	
MILLWORK						
LAM 1	WILSONART		LOFT OAK 7968K-12		VERTICAL SURFACES	
LAM 2	WILSONART	FINE VELVET FINISH	LOFT DOOR Y0679-38		COFFEE BAR AND TALL MILLWORK AT NURSE STATIONS	
SSM 1	CORIAN		NEUTRAL CONCRETE		COFFEE BAR, EXAM ROOMS	BARBARA DAVIS 704-301-8078 / GC TO PROVIDE NATIONAL REGISTRATION # C-0014-1650
SSM 2	CORIAN		SEAGRASS		RECEPTION DESK AND NURSE STATION COUNTER	BARBARA DAVIS 704-301-8078 / GC TO PROVIDE NATIONAL REGISTRATION # C-0014-1650
MISC						
CG 1	C/S ACROVYN	SM SERIES 3" SURFACE MOUNT CG	0350 SHARKSKIN	VARIES	CORNER GUARDS WALL PROTECTION	MEG EISEMANN 704-543-8181
CG 3	C/S ACROVYN	SM SERIES 2" SURFACE MOUNT CG	0350 SHARKSKIN	VARIES	CORNER GUARDS WALL PROTECTION	MEG EISEMANN 704-543-8181
WD	ALGOMA HARDWOODS, INC	WHITE BIRCH / VENEER CUT: SLICED	STAIN TO MATCH OFFICES TO GO AMERICAN ESPRESSO	VARIES	INTERIOR DOOR FINISH	
WS 1	SWF CONTRACT	MANUAL CROSSHATCH S SERIES 3% OPENNESS	SHADE FABRIC: C8204 FOG, FASCIA FABRIC: 875 CLEAR ANODIZED	VARIES	GENERAL	



CG 1 DETAIL



CG 3 DETAIL - END CAP

FINISH ABBREVIATIONS	
ACT	ACOUSTICAL CEILING TILE
CG	CORNER GUARD
EC	EXPOSED CONCRETE
EP	EPOXY PAINT EGGSHELL FINISH
EXIST	EXISTING
EXP	EXPOSED
GYP	GYPSUM BOARD
LAM	PLASTIC LAMINATE
LVT	LUXURY VINYL TILE
RB	RUBBER COVE BASE
RUB	RUBBER FLOORING
S	WINDOW SHADE
SSM	SOLID SURFACE MATERIAL
WOM	WALK OFF MAT
WPC	WOOD PLANK CEILING

neighboring concepts

ARCHITECTURE = PLANNING = INTERIORS

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

100% CONSTRUCTION DOCUMENTS

FINISH LEGEND & SCHEDULE

ISSUE DATE 10/28/2022
CHECKED FL
SHEET BY Author
PROJECT NUMBER 21-025

A721

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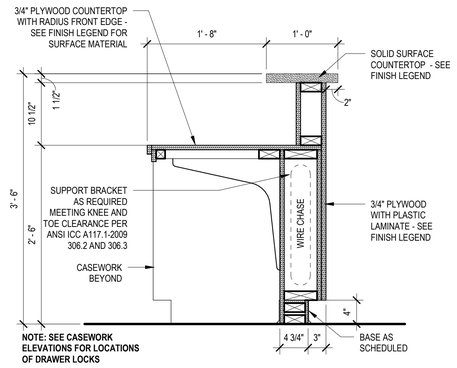

2 A801 **NURSE STATION SECTION**

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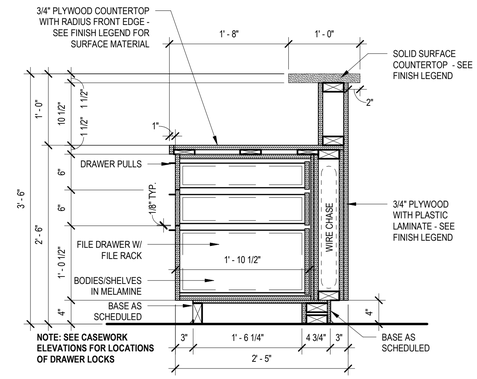

3 A801 **NURSE STATION SECTION**

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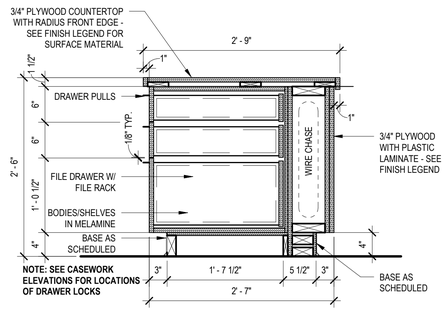

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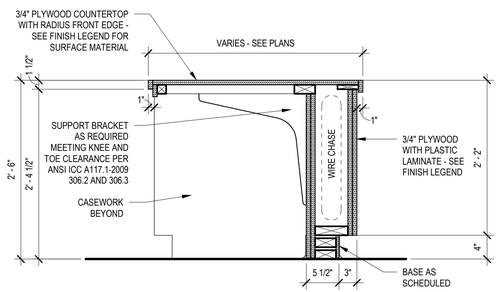

5 A801 **RECEPTION SECTION**

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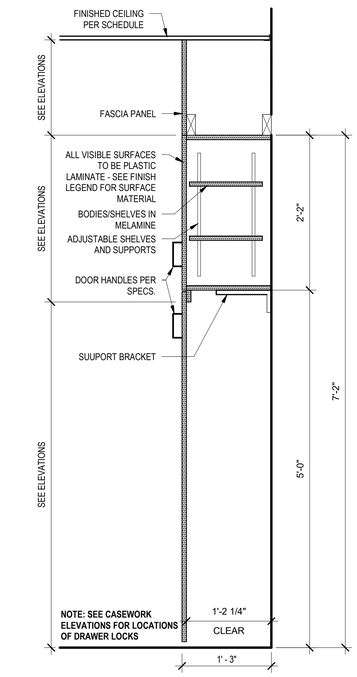
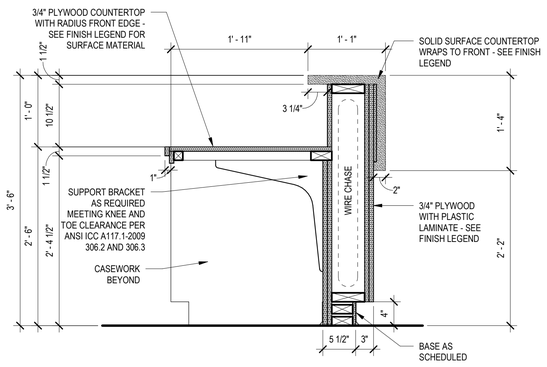


6 A801 **CASEWORK SECTION**

SCALE: 1" = 1'-0"



7 A801 **RECEPTION SECTION**

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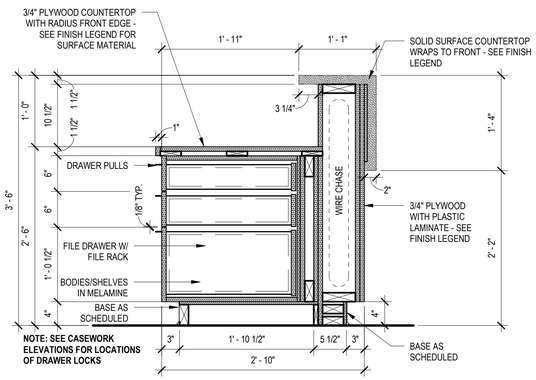

8 A801 **RECEPTION SECTION**

SCALE: 1" = 1'-0"

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ARCHITECTURE ≡ PLANNING ≡ INTERIORS

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

100% CONSTRUCTION DOCUMENTS

MILLWORK DETAILS

ISSUE DATE 10/28/2022
CHECKED FL
SHEET BY MV
PROJECT NUMBER 21-025

A801

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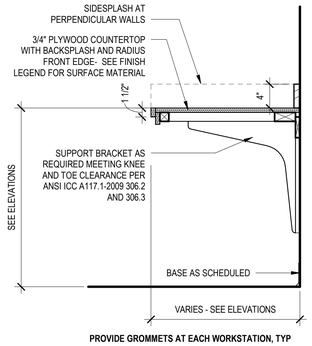

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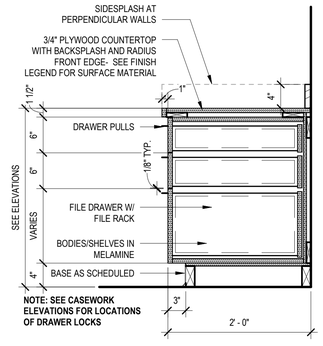

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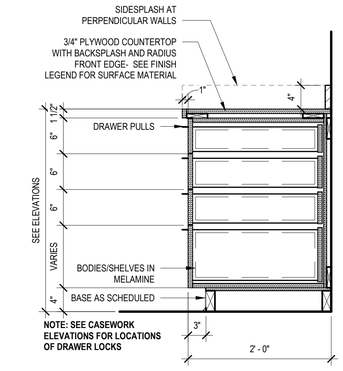

4 A802 **CASEWORK SECTION**

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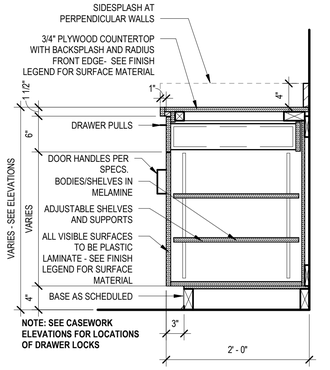

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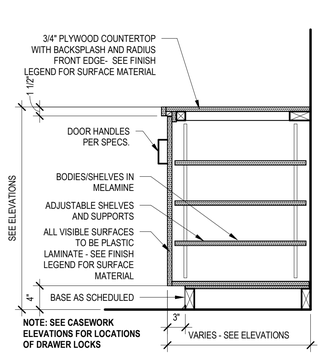

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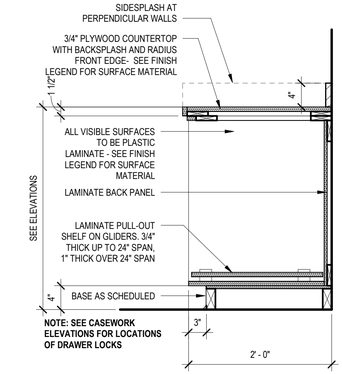

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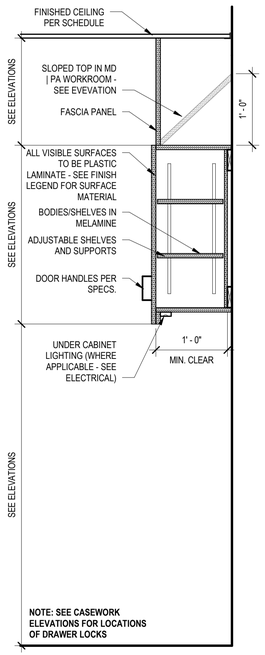

8 A802 **CASEWORK SECTION**

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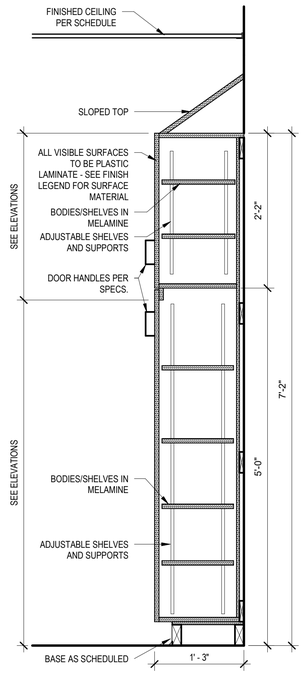

9 A802 **CASEWORK SECTION**

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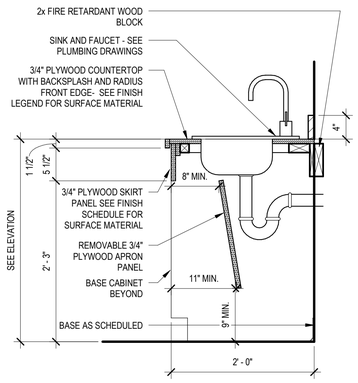

10 A802 **CASEWORK SECTION**

SCALE: 1" = 1'-0"

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10.28.2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

100% CONSTRUCTION DOCUMENTS

MILLWORK DETAILS

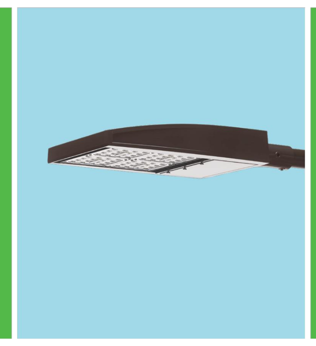
ISSUE DATE 10/28/2022
CHECKED FL
SHEET BY MV
PROJECT NUMBER 21-025

A802

10/28/2022 5:25:29 PM BIM 360://21-025 Novant MJ Clinic Wilmington/21_025_Novant MJ Family Medical Clinics - Wilmington_NC.rvt

Outdoor Lighting

Shoebox LED



The energy-efficient Shoebox LED combines a decorative, contemporary style with versatility and ample lighting effect that is perfect for streets, parking lots, commercial buildings and residential communities. The Shoebox LED provides excellent color rendition along with a controlled light pattern that reduces glare and keeps the light directed only where you want it. Available in black, dark bronze, gray or white with one to four fixtures per pole.

LED *(Light Emitting Diode)*	150, 220, 420, 530 watts
Mounting heights	25', 30', 35'
Colors	Black Bronze Gray White
Poles	Fiberglass *(1 or 2 fixtures per pole)* Decorative tapered metal Decorative square metal

Note: 35' pole available in black or bronze only.

For additional information, visit us at **duke-energy.com/OutdoorLighting** or call us toll free at **866.769.6417**.

DUKE ENERGY PROGRESS

BUILDING A SMARTER ENERGY FUTURE®

Outdoor Lighting

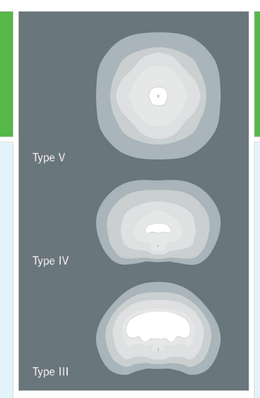
Shoebox LED

Light source: LED *(white)*

Replacement for:* LED Wattage 150 – 250-watt HPS and metal halide; LED Wattage 205 – up to 400-watt metal halide; LED Wattage 530 – 1,000-watt metal halide

Warm-up and restrike time: Instant on *(no warm-up or restrike time)*

Wattage	BUG Rating	Light Pattern	Lumens	Color Temp
LED 150	B5-U0-G3	IESNA Type V (circular)	19580	4,000K
LED 150	B3-U0-G4	IESNA Type IV (forward throw)	18459	
LED 150	B2-U0-G3	IESNA Type III (oval)	19006	
LED 220	B5-U0-G3	IESNA Type V *(circular)*	25870	
LED 220	B3-U0-G4	IESNA Type IV *(forward throw)*	24390	
LED 220	B2-U0-G4	IESNA Type III *(oval)*	25114	
LED 420	B5-U0-G5	IESNA Type V *(circular)*	48514	
LED 420	B3-U0-G5	IESNA Type IV *(forward throw)*	43765	
LED 530	B5-U0-G5	IESNA Type V *(circular)*	60296	
LED 530	B3-U0-G5	IESNA Type IV *(forward throw)*	54395	



light distribution pattern

** These are approximate replacement suggestions; actual conditions could be different.*

Poles available:

Name	Mounting height	Color
Round tapered decorative metal*	35'	Black Bronze
Decorative square metal*	25' and 30'	Black Gray Bronze White
Fiberglass	30'	Black *(1 or 2 fixtures per pole)* Gray *(1 or 2 fixtures per pole)*

Features	Benefits
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance included	Eliminates high and unexpected repair bills
Electricity included	Less expensive than metered service
Warranty included	Worry-free
One low monthly cost on your electric bill	Convenience and savings for you
Turnkey operation	Provides hassle-free installation and service
Backed by over 40 years of experience	A name you can trust today … and tomorrow

**2' raised foundation available when required on metal poles only.*

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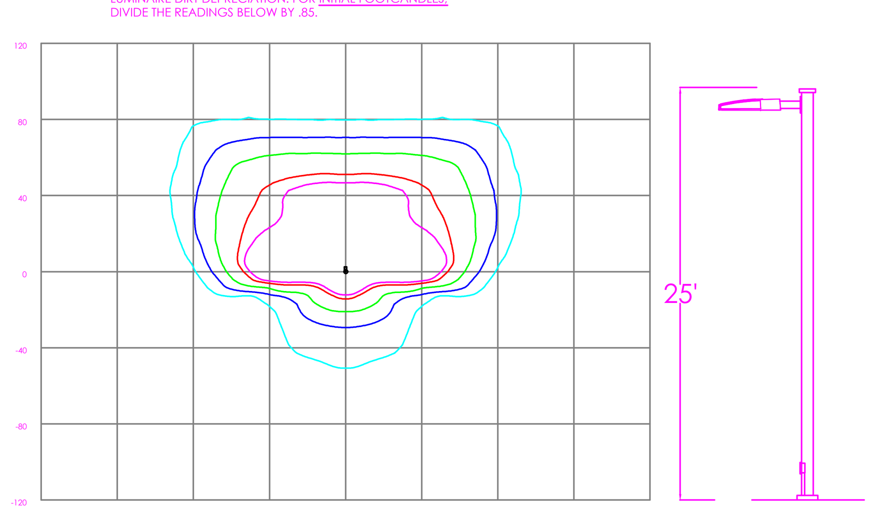
ISOFOOTCANDLE CURVES

FIXTURE: LED150W SHOEBOX
MOUNTING HEIGHT: 25 FT
LIGHT SOURCE: LED'S, 4000K, 70 CRI
LUMENS - 18459
PATTERN: TYPE IV B3-U0-G4 (zero light at or above 90 degrees)

ASSY# LFIX-SBX-LED-150-BLK-IV-MULTIV-___-P
POLE ASSY# LPOLE-AB-STL-25FT-BLK-SQ-___-P (BLACK)
BRACKET ASSY# LBKT-SIDE-12IN-BLK-UNV-STL-___-P (BLACK)

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .85.



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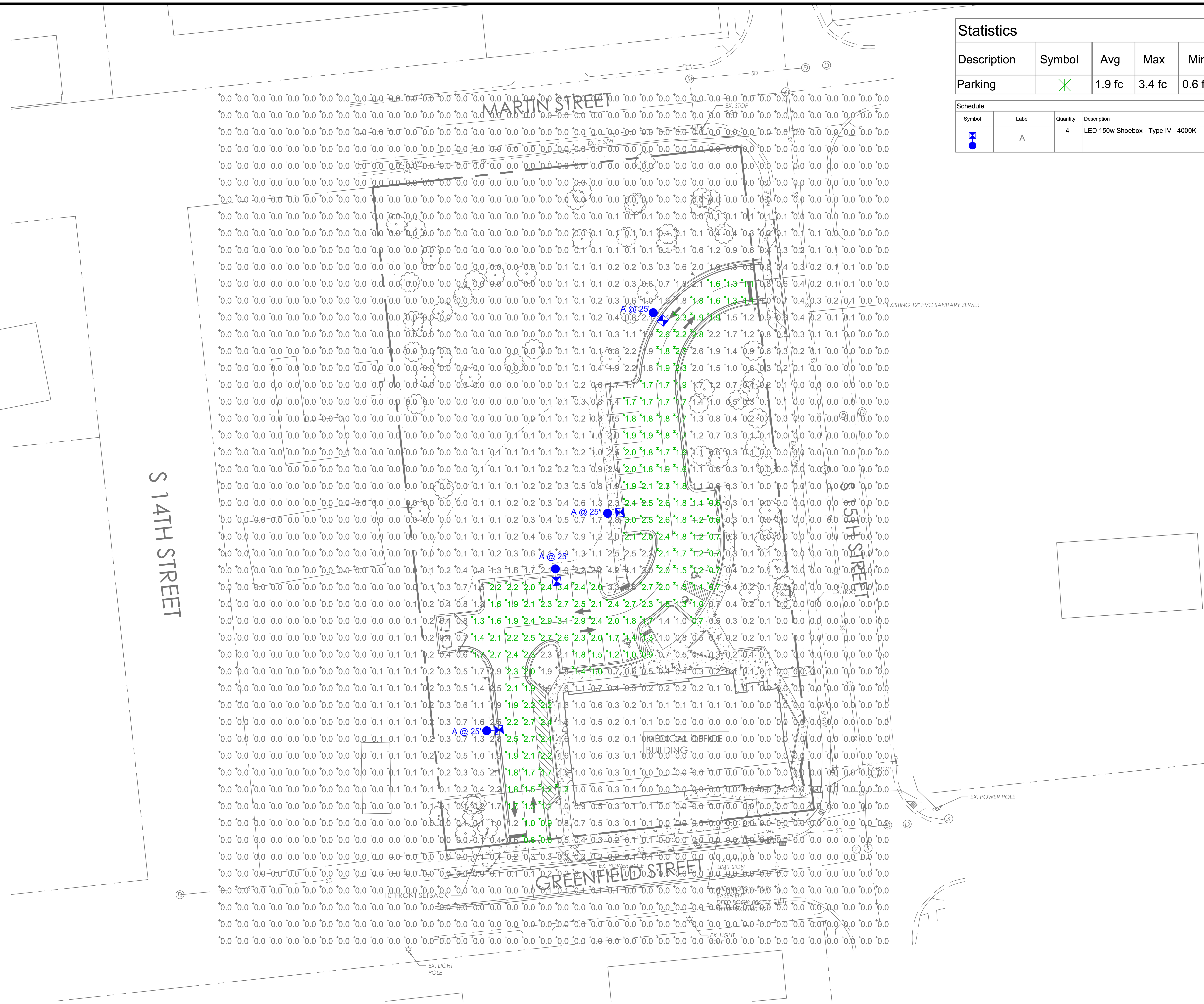

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	✳	1.9 fc	3.4 fc	0.6 fc	5.7:1	3.2:1

Schedule

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
	A	4	LED 150w Shoebox - Type IV - 4000K	48	385	0.85

NO.	DATE	REVISION	BY

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

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NOVANT CLINIC
1410 S. 15TH Street, Wilmington NC
SITE LIGHTING ARRANGEMENT

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by N. Johnson Scale 1" = 30'
Date 08/02/2022 Size Drawing size "D"
Description LED Shoebox
Drawing No. 22-0314A Sht. 1 OF 1

Outdoor Lighting

Shoebox LED

The energy-efficient Shoebox LED combines a decorative, contemporary style with versatility and ample lighting effect that is perfect for streets, parking lots, commercial buildings and residential communities. The Shoebox LED provides excellent color rendition along with a controlled light pattern that reduces glare and keeps the light directed only where you want it. Available in black, dark bronze, gray or white with one to four fixtures per pole.

LED *(Light Emitting Diode)*	150, 220, 420, 530 watts
Mounting heights	25', 30', 35'
Colors	Black Bronze Gray White
Poles	Fiberglass *(1 or 2 fixtures per pole)* Decorative tapered metal Decorative square metal

Note: 35' pole available in black or bronze only.

For additional information, visit us at **duke-energy.com/OutdoorLighting** or call us toll free at **866.769.6417**.

DUKE ENERGY. PROGRESS

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Outdoor Lighting

Shoebox LED

Light source: *LED (white)*

Replacement for*: LED Wattage 150 – 250-watt HPS and metal halide;
LED Wattage 205 – up to 400-watt metal halide;
LED Wattage 530 – 1,000-watt metal halide

Warm-up and restrike time: Instant *(no warm-up or restrike time)*

Wattage	BUG Rating	Light Pattern	Lumens	Color Temp
LED 150	B5-U0-G3	IESNA Type V *(circular)*	19580	4,000K
LED 150	B3-U0-G4	IESNA Type IV *(forward throw)*	18459	
LED 150	B2-U0-G3	IESNA Type III *(oval)*	19006	
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LED 420	B3-U0-G5	IESNA Type IV *(forward throw)*	43765	
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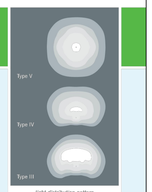

light distribution pattern

** These are approximate replacement suggestions; actual conditions could be different.*

Poles available:

Name	*Mounting height*	*Color*
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Fiberglass	30'	Black *(1 or 2 fixtures per pole)* Gray *(1 or 2 fixtures per pole)*

Features	Benefits
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
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Warranty included	Worry-free
One low monthly cost on your electric bill	Convenience and savings for you
Turnkey operation	Provides hassle-free installation and service
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**2" raised foundation available when required on metal poles only.*

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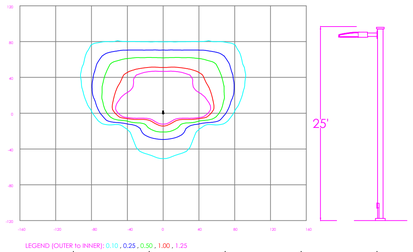
ISOFOOTCANDLE CURVES

FIXTURE: LED150W SHOEBOX
MOUNTING HEIGHT: 25 FT
LIGHT SOURCE: LED7L 4000K, 70 CRI
LUMENS - 18459
PATTERN: TYPE IV B3-U0-G4 (zero light at or above 90 degrees)
NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .64.

ASSY# LFIX-SBX-LED-150-BLK-IV-MULTV-____-P
POLE ASSY# LPOLE-AB-STL-25FT-BLK-SQ-____-P (BLACK)
BRACKET ASSY # LBKT-SIDE-12IN-BLK-UNV-STL-____-P (BLACK)



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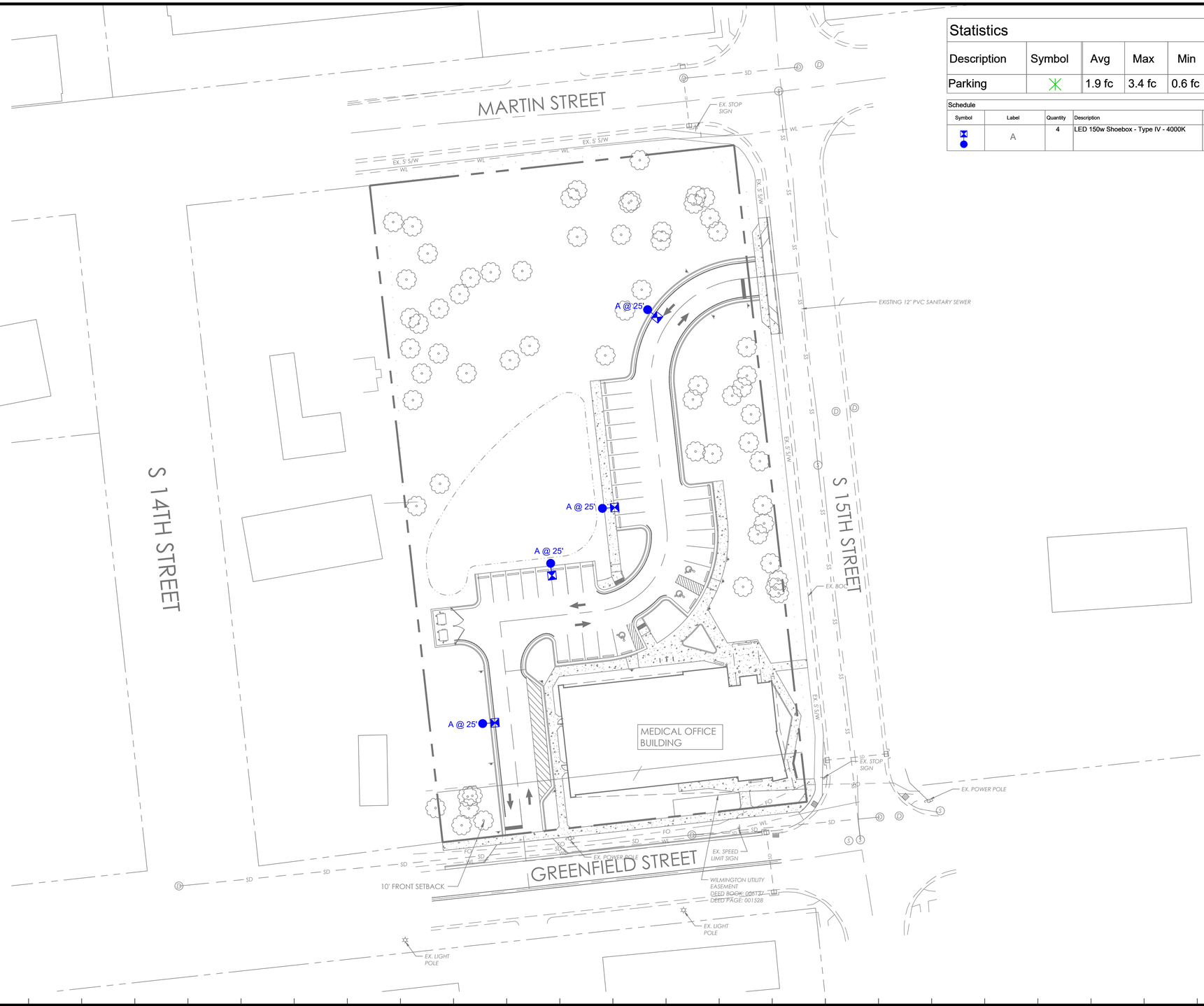

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
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Schedule

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
	A	4	LED 150w Shoebox - Type IV - 4000K	48	385	0.85

NO.	DATE	REVISION	BY

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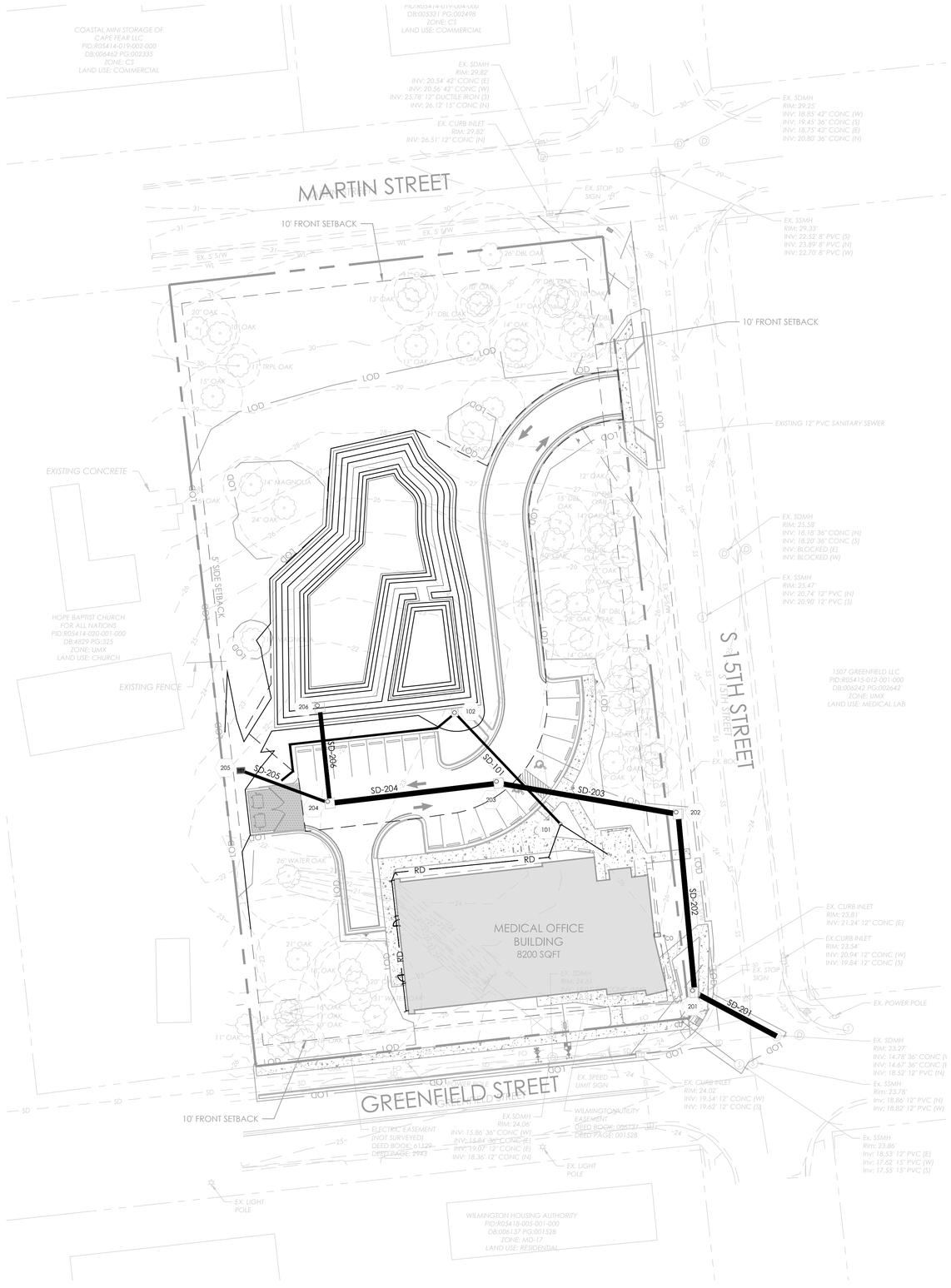
NOVANT CLINIC
1410 S. 15TH Street, Wilmington NC
SITE LIGHTING ARRANGEMENT

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by N. Johnson
Scale 1" = 30'
Date 08/02/2022
Size Drawing size "D"
Description LED Shoebox
Drawing No. 22-0314A
Sht. 1 OF 1



STORM DRAINAGE PLAN
Scale: 1" = 30'

STORM DRAINAGE (SD) PIPE TABLE				
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
SD-101	12"	HDPE	77.3 LF	0.25%
SD-201	30"	HDPE	46.7 LF	0.50%
SD-202	30"	HDPE Pipe	87.0 LF	0.50%
SD-203	30"	HDPE Pipe	90.1 LF	0.50%
SD-204	30"	HDPE Pipe	82.1 LF	0.50%
SD-205	16"	HDPE Pipe	47.7 LF	1.05%
SD-206	24"	HDPE	48.6 LF	0.51%

STORM DRAINAGE (SD) STRUCTURE TABLE	
ID NO.	DETAILS
101 DI 101	RIM = 24.00 INV OUT = 21.00 (SD P-101)
102 NCDOT JB 840.31	RIM = 22.75 INV IN = 20.81 (SD P-101)
201 NCDOT JB 840.31	RIM = 24.42 INV IN = 14.90 (SD P-202) INV OUT = 14.90 (SD P-201)
202 NCDOT JB 840.31	RIM = 25.50 INV IN = 15.34 (SD P-203) INV OUT = 15.34 (SD P-202)
203 NCDOT JB 840.31	RIM = 23.95 INV IN = 15.79 (SD P-204) INV OUT = 15.79 (SD P-203)
204 NCDOT JB 840.31	RIM = 23.32 INV IN = 17.00 (SD P-205) INV IN = 16.25 (SD P-206) INV OUT = 16.20 (SD P-204)
205 NCDOT DI 840.14	RIM = 21.90 INV OUT = 17.50 (SD P-205)
206 NCDOT JB 840.31	RIM = 22.00 INV OUT = 16.50 (SD P-206)

STORMWATER NOTES

1. AT A MINIMUM, THE STORMWATER DESIGN DETAILS FOR THIS PROJECT SHALL BE GOVERNED BY THE MINIMUM STANDARDS OF THE MOST RECENT EDITION OF THE *CITY OF WILMINGTON COMPREHENSIVE STORMWATER ORDINANCE* DESIGN GUIDELINES, IN EFFECT THE DATE CONSTRUCTION DRAWINGS ARE FIRST RECEIVED FOR REVIEW BY THE *CITY OF WILMINGTON*.
2. FINAL DESIGN CALCULATIONS FOR THE STORMWATER CONTROL MEASURE(S) (SCM(S)) REQUIRE THE USE OF STORAGE INDICATION ROUTING METHODOLOGY SUCH AS TR-20 OR HEC-1 MODELS. FOR EACH SCM, AS APPLICABLE, STAGE-STORAGE RELATIONSHIP AND INFLOW AND OUTFLOW HYDROGRAPHS ARE REQUIRED. ALL TABULATED DATA INCLUDING CALCULATIONS SHOWING THE LIMITING DISCHARGE, WHETHER ORIFICE, WEIR, BARREL, OR OUTLET CONTROL, AS APPROPRIATE IS REQUIRED. HYDROCAD, HYDRAFLOW HYDROGRAPHS, AND PONDPACK ARE COMMONLY USED AND RECOGNIZED SOFTWARE PROGRAMS WHICH INCORPORATE ROUTING METHODOLOGY ACCEPTED BY THE CITY.
3. STORMWATER CONTROL MEASURE(S) (SCM(S)) PERMIT FEE(S) AND EITHER A PAYMENT INTO THE STORMWATER REPLACEMENT FUND OR THE PROVISION OF AN ALTERNATE SECURITY ARE REQUIRED FOR ALL SCM(S) ASSOCIATED WITH THIS DEVELOPMENT. CONSTRUCTION OF THE DEVELOPMENT IS NOT ALLOWED TO COMMENCE UNTIL THESE ITEMS ARE PROVIDED IN ACCORDANCE WITH CITY STORMWATER STANDARDS OR IN ACCORDANCE WITH WRITTEN THE DESIGNER SHALL SUBMIT A SEALED ENGINEER'S CONSTRUCTION COST ESTIMATE FOR EVERY SCM PROPOSED IN THE DEVELOPMENT PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS IF A FINANCIAL GUARANTEE IN THE FORM OF PAYMENT INTO THE STORMWATER REPLACEMENT FUND IS UTILIZED.
4. AN AS-BUILT CERTIFICATION FOR THE STORMWATER CONTROL MEASURE(S) (SCM(S)), PROVIDED BY THE CERTIFYING ENGINEER OR LANDSCAPE ARCHITECT, IS REQUIRED. THE AS-BUILT CERTIFICATION SHALL BE SUBMITTED IN ACCORDANCE WITH *CITY OF WILMINGTON* SCM AS-BUILT PROGRAM. REFER TO SECTION 18-752 OF THE *CITY OF WILMINGTON CODE OF ORDINANCES*. AS-BUILT CERTIFICATION REQUIREMENTS FOR SCMS IN THE *CITY OF WILMINGTON* DESIGN GUIDELINES. THE SCM AS-BUILT CERTIFICATION(S) SHALL BE APPROVED BY THE STORMWATER DEVELOPMENT REVIEW SECTION PRIOR TO ISSUANCE OF ANY FINAL CERTIFICATES OF OCCUPANCY/COMPLIANCE FOR DEVELOPMENT.
5. STORMWATER CONTROL MEASURE(S) (SCM(S)) DESIGN CALCULATIONS WILL NOT BE REVIEWED OR APPROVED WITH THE SITE PLAN/PRELIMINARY PLAT SUBMITTAL. ALL SCM DESIGNS WILL BE REVIEWED AND APPROVED DURING THE CONSTRUCTION DRAWING SUBMITTAL PROCESS. IF, AT THE TIME OF CONSTRUCTION DRAWING SUBMITTAL, IT IS FOUND THAT THE PROPOSED SCM(S) IS UNDERSIZED, NOT PROPERLY ACCESSIBLE, OR OTHERWISE INSUFFICIENT OR UNSUITABLE FOR THE SITE, IT IS THE RESPONSIBILITY OF THE APPLICANT TO INSURE THAT THE APPLICABLE STORMWATER ORDINANCE REQUIREMENTS ARE MET. A REVISED SITE PLAN OR PRELIMINARY PLAT MAY BE REQUIRED IF THE ORIGINALLY PROPOSED SCM(S) ARE FOUND INSUFFICIENT, NOT PROPERLY ACCESSIBLE, OR UNSUITABLE AND ALTERNATIVE SCM(S) WITH ASSOCIATED EASEMENTS ARE REQUIRED.
6. THE DEVELOPER/CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE STORMWATER DEVELOPMENT REVIEW SECTION PRIOR TO COMMENCING WORK ON ANY STORMWATER CONTROL MEASURE (SCM). IF THE SCM WILL BE CONSTRUCTED INITIALLY AS A SEDIMENTATION AND EROSION CONTROL (S&EC) DEVICE, TO BE CONVERTED TO A PERMANENT SCM AT A LATER TIME, THE PRECONSTRUCTION MEETING SHOULD BE SCHEDULED PRIOR TO CONSTRUCTION OF THE S&EC DEVICE. CALL _____ TO SCHEDULE THE REQUIRED MEETING A MINIMUM OF THREE BUSINESS DAYS PRIOR TO THE DESIRED MEETING DATE. THIS IS IN ADDITION TO OTHER PRECONSTRUCTION MEETING REQUIREMENTS FOR EROSION CONTROL, ENGINEERING INSPECTIONS, ETC.
7. TO RECEIVE SITE PLAN/PRELIMINARY PLAT APPROVAL FOR DEVELOPMENTS OTHER THAN SINGLE FAMILY DETACHED, TOWNHOME AND DUPLEX RESIDENTIAL DEVELOPMENTS THAT ARE MAKING USE OF NUTRIENT BANKS OR NCEEP, THE APPROVAL OF THE SITE PLAN/PRELIMINARY PLAT IS CONTINGENT UPON THE PURCHASE OF NUTRIENT CREDITS. IF A REVISED SITE PLAN/PRELIMINARY PLAT IS SUBMITTED FOR THIS DEVELOPMENT, THE REVISED SITE PLAN/PRELIMINARY PLAT WILL BE SUBJECT TO ANY ORDINANCES IN PLACE AT THE TIME OF THE REVISED SITE PLAN/PRELIMINARY PLAT SUBMISSION. PRIOR TO THE APPROVAL OF THE SITE PLAN/PRELIMINARY PLAT, A LETTER/RECEIPT SHOWING THE PURCHASE OF THE NUTRIENT CREDITS FOR THIS DEVELOPMENT AND A COPY OF THE NUTRIENT BANK LEDGER IF APPLICABLE, SHOWING THE TOTAL NUTRIENT CREDITS AVAILABLE MINUS ANY AND ALL DEDUCTIONS, IS TO BE PROVIDED TO THE STORMWATER DEVELOPMENT REVIEW SECTION.

30' 15' 0 30'
SCALE: 1" = 30'

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 028948 ENGINEER DANIEL MILLER, PLA
NOT FOR CONSTRUCTION OR PERMITTING PURPOSES

TRANSYSTEMS CORPORATION CORPORATE SEAL F-0453 N.C.

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NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

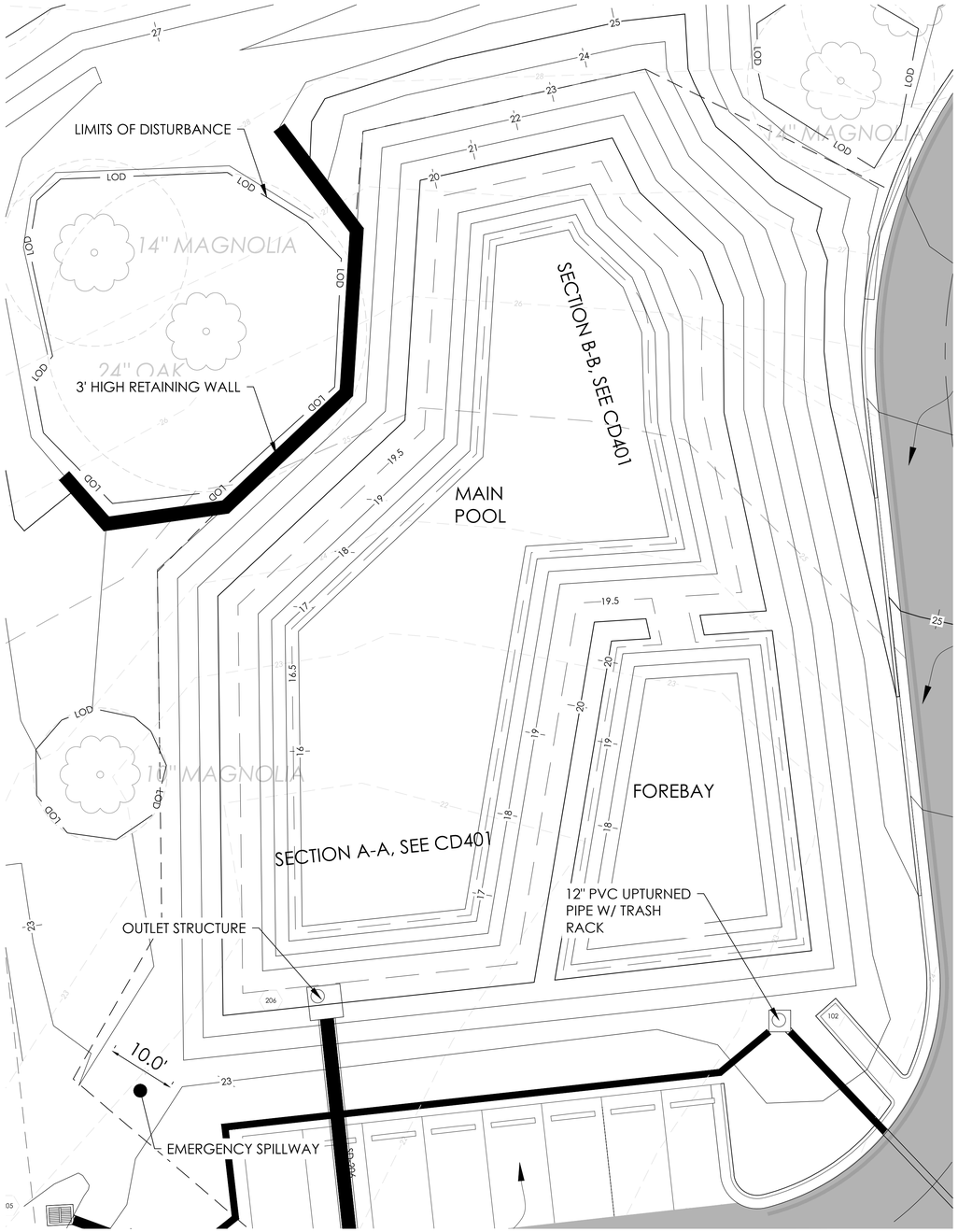
PERMIT SET

STORM DRAINAGE PLAN

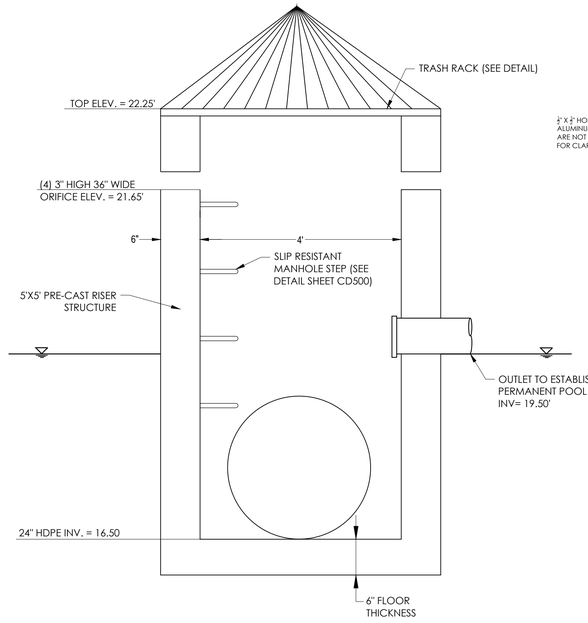
ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CD100

10/28/2022 3:39 PM X:\2021\SE21 280.00 MJ Clinic Greenfield SI\LDI\CAD\CDs\CD100.dwg

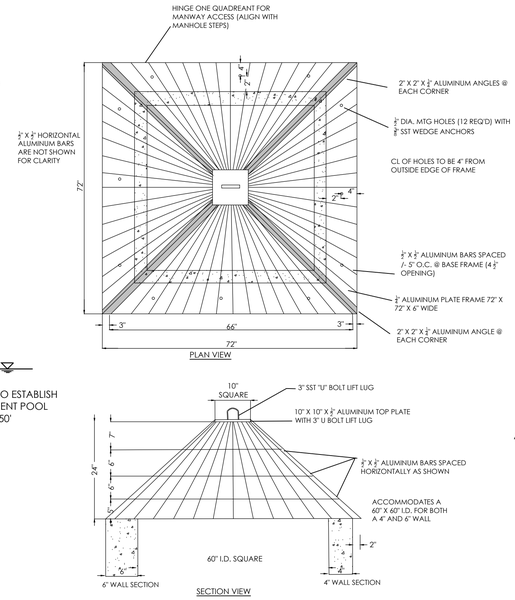


WET POND PLAN



WET POND OUTLET CONTROL STRUCTURE

NOT TO SCALE



1. TRASH RACK DETAIL BASED ON POMONA PIPE PRODUCTS "STANDARD ALUMINUM BAR & ANGLE PEAKED ROOF TRASH RACK WITH ONE QUADRANT HINGED FOR MANWAY ACCESS TO FIT 60" X 60" I.D. CONCRETE RISER WITH 6" OR 8" THICK WALLS"
2. TRASH RACK TO BE POWDER-COATED BLACK

TRASHRACK 5'X5' RISER

NOT TO SCALE

STORMWATER CONTROL MEASURE (SCM) NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER FOR RESOLUTION.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA DIVISION OF WATER RESOURCES STORMWATER BMP MANUAL, STANDARDS AND SPECIFICATIONS.
3. LANDSCAPING PLANTINGS SHOWN ON THE LANDSCAPE PLAN SHALL BE INSTALLED DURING FALL SEASON OR EARLY SPRING IF POSSIBLE FOR MAXIMUM PLANT SURVIVABILITY. CONTRACTOR TO ORDER PLANTS WELL IN ADVANCE OF PLANTING TO ENSURE AVAILABILITY / COORDINATION OF ALTERNATES; PLANTS MUST BE PURCHASED FROM A LOCAL NURSERY.
4. THE CONTRACTOR SHALL WARRANTY ALL PLANTED MATERIALS FOR A PERIOD OF 2 YEARS FROM DATE OF INSTALLATION. AT THE END OF THE FIRST YEAR AND AT THE END OF THE SECOND YEAR, THE CONTRACTOR SHALL REPLACE ALL PLANTS WHICH DID NOT SURVIVE. ANY HEALTHY PLANTS DAMAGED DURING PLANT REPLACEMENT SHALL ALSO BE REPLACED.
5. SEE LANDSCAPE PLANS FOR SOD SPECIFICATIONS, AND SITE DRAINAGE SCHEDULES FOR ADDITIONAL STRUCTURE TOPS AND PIPE INVERT ELEVATIONS.
6. PRINCIPAL SPILLWAY PIPE SHALL HAVE A MINIMUM PIPE STRENGTH CONFORMING TO AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C-76, CLASS III STANDARDS.
7. THE CONTRACTOR SHALL EMPLOY A GEOTECHNICAL ENGINEER TO TEST ALL EMBANKMENTS AND FILL PLACEMENT FOR PROPER COMPACTION. PROPER COMPACTION SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS OR THESE PLANS, WHICHEVER IS MORE STRINGENT. EMBANKMENTS FOR BMP'S SHALL BE PLACED IN 6 INCH LOOSE LAYERS AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE OUTLET STRUCTURE AT ALL PHASES OF INSTALLATION AND SHALL RETAIN WITH GEOTECHNICAL TESTING DATA. THE CONTRACTOR SHALL ALSO RETAIN ALL SHIPPING RECORDS AND SPECIFICATIONS FOR THE OUTLET STRUCTURE MATERIALS AND STRUCTURES. ALL OF THE ABOVE DATA MAY BE REQUIRED AS PART OF THE MUNICIPALITY AS-BUILT PROCESS AND SHALL BE MADE AVAILABLE TO THE ENGINEER UPON REQUEST. THE CONTRACTOR AND OWNER SHALL HAVE DOCUMENTATION OF THESE TESTS AVAILABLE UPON REQUEST.
8. TOLERANCES FOR FINAL GRADES SHALL BE WITHIN +/- 0.10 FEET. AN AS-BUILT SURVEY OF THE WET POND WILL BE REQUIRED, THEREFORE, STRICT ADHERENCE TO THE GRADING ON THIS PLAN AND THE TOLERANCES SPECIFIED HEREON SHALL BE REQUIRED PRIOR TO CERTIFICATION BY THE ENGINEER. UPON COMPLETION OF THE FINAL GRADING (PRIOR TO PLACEMENT OF ANY PLANT MATERIAL) THE CONTRACTOR SHALL CONTACT THE SURVEYOR TO SURVEY THE AS-BUILT WET POND. THE CONTRACTOR SHALL NOTIFY THE ENGINEER THAT THE WET POND FACILITY HAS BEEN COMPLETED AND THE ENGINEER SHALL EVALUATE THE AS-BUILT SURVEY DATA FOR COMPLIANCE WITH THESE DRAWINGS. IF THE WET POND FACILITY IS FOUND TO BE OUT OF COMPLIANCE WITH THESE DRAWINGS, THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY TO BRING THE WET POND FACILITY INTO COMPLIANCE WITH THESE DRAWINGS. THE COST OF ANY ADDITIONAL SURVEYING FOR ENGINEERING EVALUATION REQUIRED RESULTING FROM INCOMPLETE OR INCORRECT GRADING OF THE WET POND FACILITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED AND INSPECTION APPROVED PRIOR TO BEGINNING GENERAL SITE WORK, INCLUDING GENERAL CLEARING, GRUBBING, AND GRADING.

STORMWATER CONTROL MEASURE CONSTRUCTION SEQUENCE

1. UNDER NO CIRCUMSTANCES SHALL THE WET POND BE FINALIZED AND PLANTED BEFORE THE COMPLETION OF CONSTRUCTION AND STABILIZATION OF ALL AREAS WHICH DRAIN TO IT. NOTIFY THE ENGINEER 48 HOURS PRIOR TO BEGINNING CONSTRUCTION ON THE WET POND AND SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENGINEER TO REVIEW DETAILS OF THE CONSTRUCTION REQUIREMENTS.
2. IF THE WET POND HAS BEEN PREVIOUSLY ROUGH GRADED, REMOVE AND DISPOSE OF SEDIMENT DEPOSITS WITHIN EXCAVATED BASIN.
3. STRIP TOPSOIL AND DISPOSE OF OFFSITE, OR STOCKPILE FOR SUBSEQUENT SCREENING AND PLACEMENT ELSEWHERE ONSITE. ONSITE STOCKPILE SHALL BE ENCLOSED BY SILT FENCE.
4. EXCAVATE AND ROUGH GRADE THE WET POND AREAS TO THE DESIGN DIMENSIONS. ALL FILL PLACEMENT SHALL BE IN COMPLIANCE WITH THE SPECIFICATION IN THE CONSTRUCTION NOTES ON THIS SHEET.
5. INSTALL CLAY LINER AND ARMORED SECTIONS OF FOREBAY WEIRS.
6. INSTALL OUTLET STRUCTURE SYSTEM IN THE BOTTOM OF THE EXCAVATION AS SHOWN ON THE PLANS.
7. PROVIDE LANDSCAPING IN COMPLIANCE WITH THE WET POND PLANTING PLAN. IF TIMING IS SUCH THAT PLANTINGS WOULD OCCUR IN SUMMER MONTHS, COORDINATE WITH THE ENGINEER AND NCDEQ REGARDING ALTERNATE PLANTINGS FOR MAXIMUM SURVIVABILITY OF PLANTS.
8. STABILIZE THE SLOPES DRAINING TO THE WET POND AREA WITH GRASS SOD, OR SURROUND THE AREA WITH SILT FENCE TO PREVENT SEDIMENT FROM CONTAMINATING THE SOIL MIXTURE. SEED ALL ADDITIONAL DISTURBED AREAS PER THE SEEDING SCHEDULE SHOWN ON THE LANDSCAPE PLAN.
9. CALL NCDEQ EROSION CONTROL INSPECTOR FOR APPROVAL OF EROSION CONTROL STABILIZATION.
10. AFTER COMPLETING ALL PLANTINGS AND SEEDINGS, FERTILIZE ENTIRE WET POND AS RECOMMENDED BY USDA SOIL TESTING RECOMMENDATIONS. FERTILIZING SHALL OCCUR ONLY DURING THE FIRST YEAR. THEREAFTER NO FERTILIZING SHALL BE ALLOWED.
11. CONTRACTOR SHALL WATER NEW PLANT MATERIAL PLANTED IN THE WET POND DAILY UNTIL COMPLETION OF ALL OTHER SITE RELATED CONSTRUCTION HAS BEEN COMPLETED. AFTER THE FULL SCOPE OF THE CONTRACTOR'S WORK IS COMPLETED, IT SHALL BE THE OWNER'S RESPONSIBILITY TO WATER PLANTS DAILY UNTIL PLANTS HAVE BECOME WELL ESTABLISHED AND WATERING IS NO LONGER NECESSARY.
12. FILL POND AND MONITOR SURFACE ELEVATION FOR 48 HOURS. WATER SURFACE SHALL REMAIN WITHIN ONE INCH OF PERMANENT POOL ELEVATION. IF WATER LEVEL DROPS ONE INCH, NOTIFY ENGINEER AND INVESTIGATE OUTLET BARREL, OUTLET STRUCTURE, AND EMBANKMENT FOR LEAKS OR DEFECTS. MAKE REPAIRS IF REQUIRED AND FILL POND AND REPEAT WATER EVALUATION MONITORING. IF WATER LEVEL REMAINS WITHIN TOLERANCE, NOTIFY ENGINEER AND PERFORM DETAILS TOPOGRAPHIC SURVEY.
13. CONTACT CITY OF WILMINGTON STORMWATER ENGINEER TO OBTAIN FINAL BMP INSPECTION AND APPROVAL.

10' 5' 0 10'

SCALE: 1" = 10'

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028948 DANIEL MILLER FOR REVIEW ONLY, NOT FOR CONSTRUCTION OR BIDDING

TRANSYSTEMS CORPORATION CORPORATE SEAL F-0453 N.C.

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

STORM DRAINAGE ENLARGEMENT

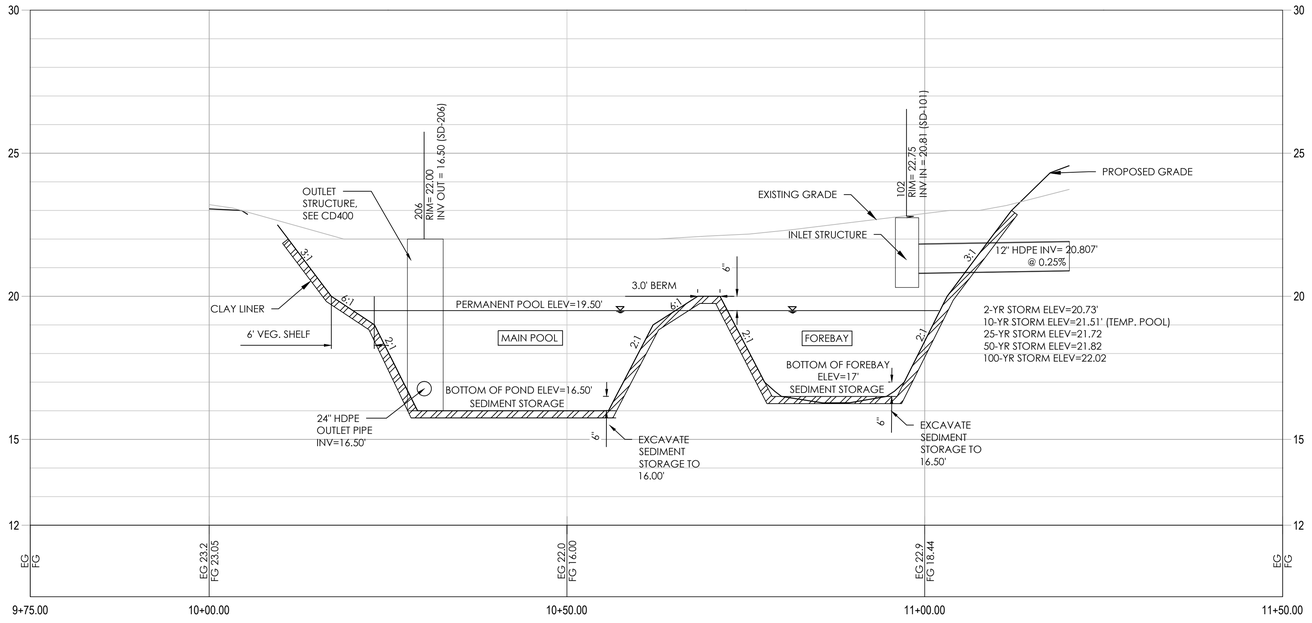
ISSUE DATE 10/28/2022

CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CD400

10/28/2022 3:39 PM X:\2021\SEP\285.00 MJ Clinic Greenfield 3\LD\CAD\CDs\CD400.dwg

Wet Pond Section A-A



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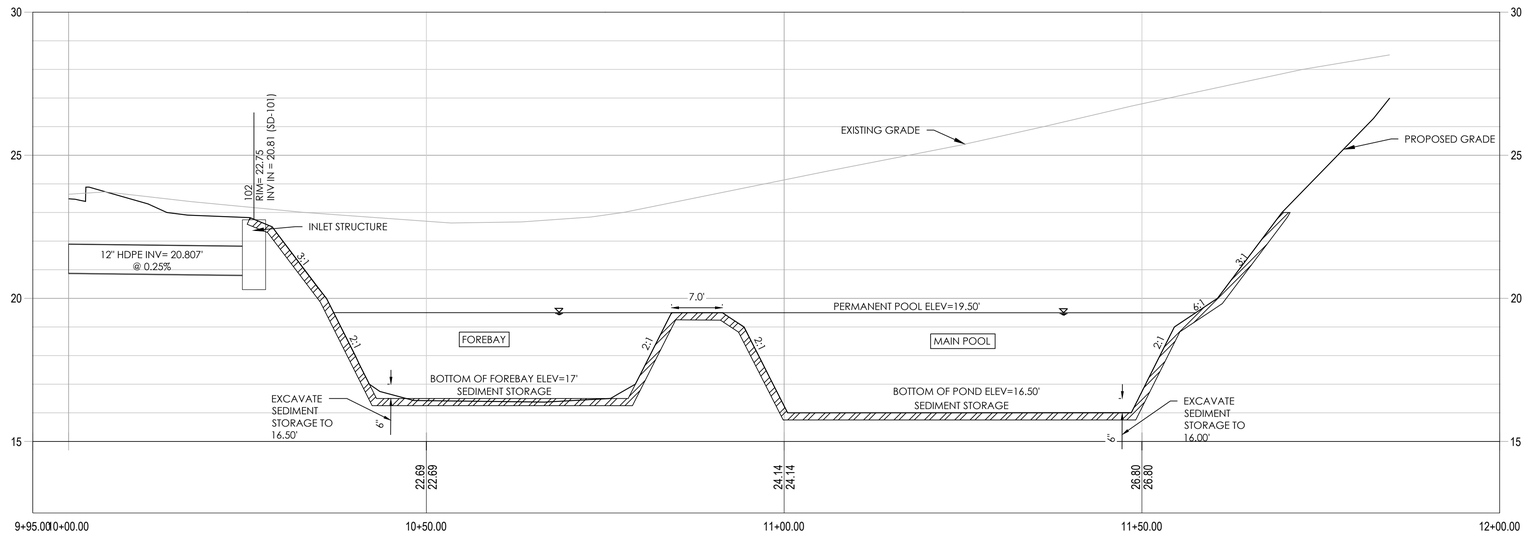
Wet Pond Section B-B



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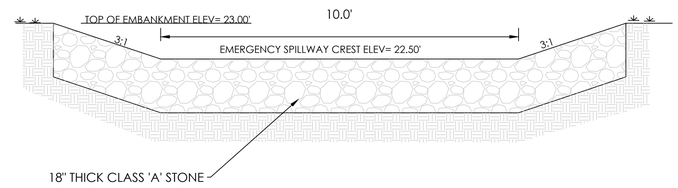

EMERGENCY SPILLWAY SECTION
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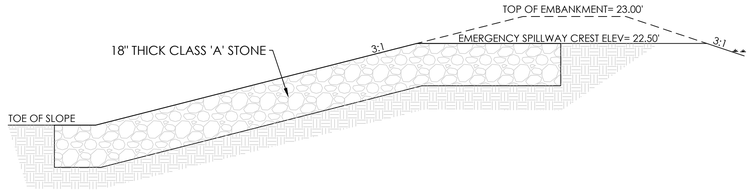

EMBANKMENT SECTION EMERGENCY SPILLWAY SECTION
NTS

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028948 DANIEL MILLER III
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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

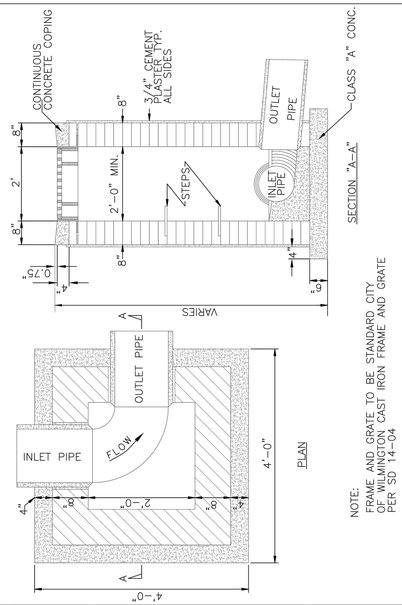
PERMIT SET

WET POND DETAIL

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CD401

10/28/2022 3:40 PM X:\2021\SEP\.285.00 MJ Clinic Greenfield SF\LD\CAD\ CDs\CD401.dwg



STANDARD DETAIL

DROP INLET

DATE: 2001
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SCALE NOT TO SCALE

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CITY OF WILMINGTON ENGINEERING
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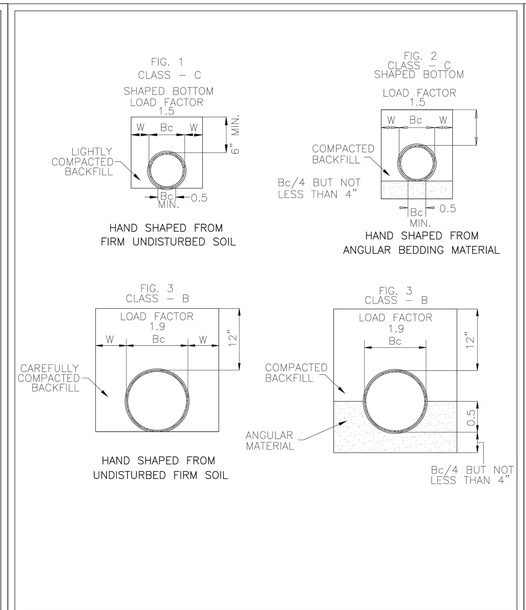
(910) 341-7807

SD 2-02



STANDARD DETAIL

GUIDELINES FOR BEDDING DETAILS, STORM SEWER CLASSES (B & C)

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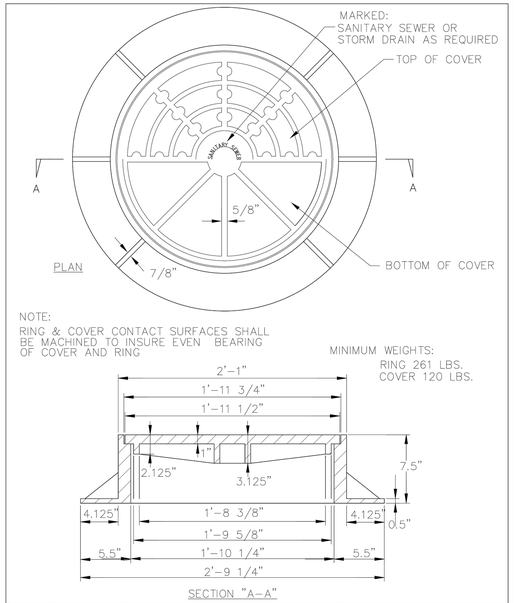

STANDARD DETAIL

STANDARD MAN-HOLE RING AND COVER

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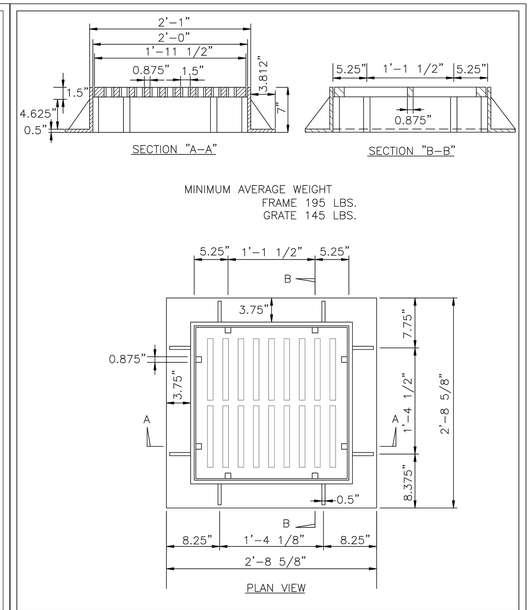

STANDARD DETAIL

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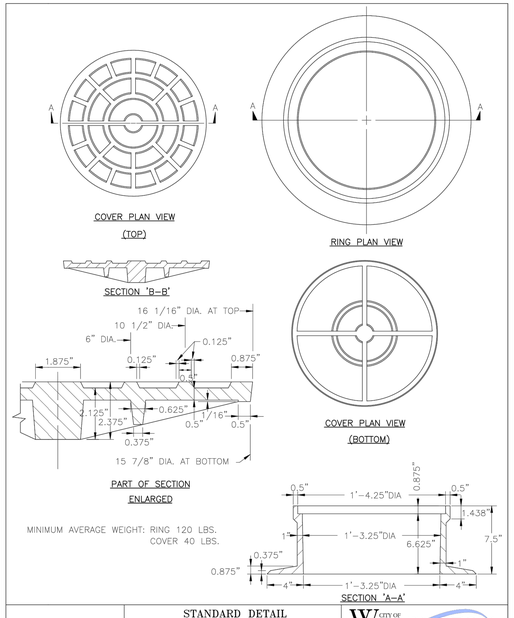

STANDARD DETAIL

MONUMENT CASTING DETAIL

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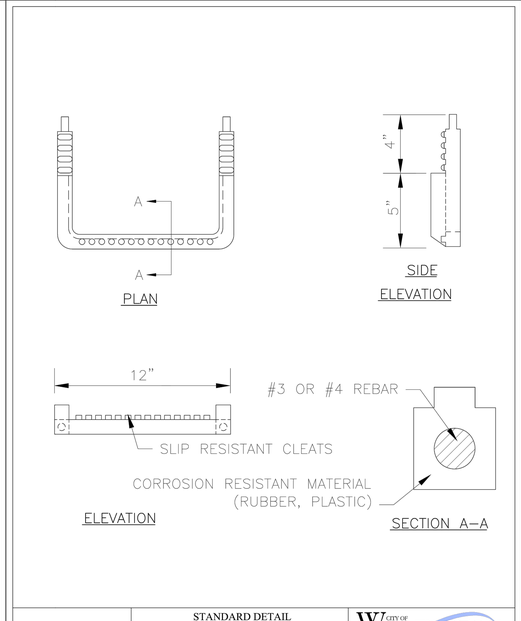

STANDARD DETAIL

SLIP RESISTANT MANHOLE STEP

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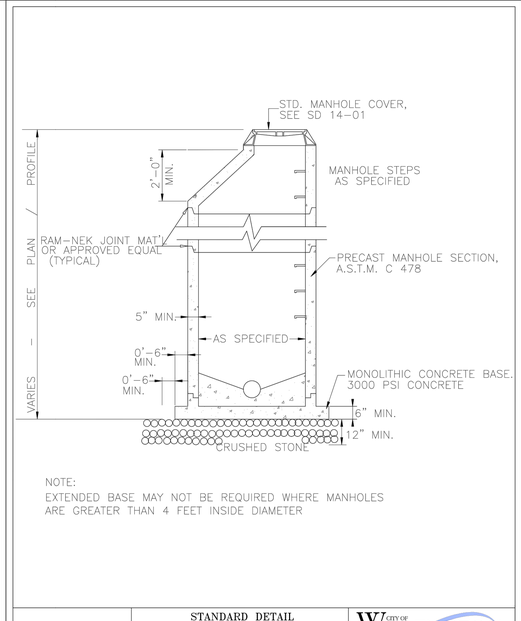

STANDARD DETAIL

PRECAST MANHOLE

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SD 14-11

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NOTICE:
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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

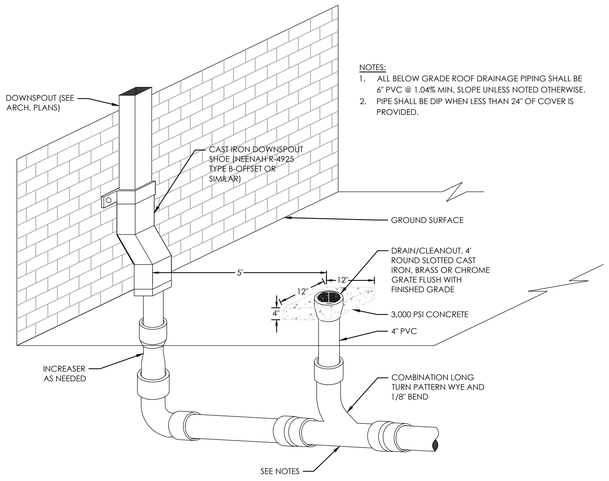
PERMIT SET

STORM DRAINAGE DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CD500

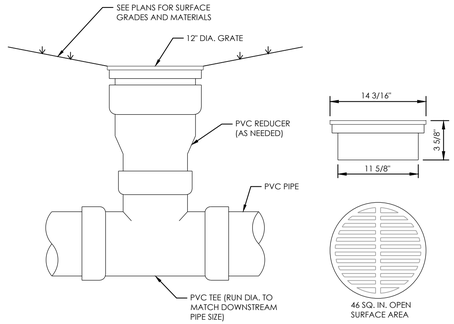
10/28/2022 3:40 PM X:\2021\SE21.285.00 MJ Clinic Greenfield 9\LDI\CAD\CDs\CD500.dwg



NOTES:
1. ALL BELOW GRADE ROOF DRAINAGE PIPING SHALL BE 4" PVC @ 1.04% MIN. SLOPE UNLESS NOTED OTHERWISE.
2. PIPE SHALL BE DIP WHEN LESS THAN 24" OF COVER IS PROVIDED.

DOWNSPOUT CONNECTION
SCALE: NTS

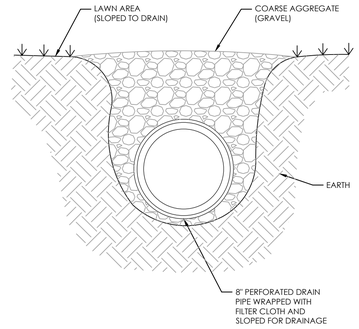
1



NOTES:
1. GRATE SHALL BE 12" ROUND STRUCTURAL FOAM POLYETHYLENE GRATE WITH UV INHIBITOR, COLOR: GREEN, WITH DIRECT CONNECTION TO PVC FITTINGS, NDS #1250 OR EQUAL (1-800726-1994).
2. PVC PIPE AND FITTINGS SHALL BE SCH. 40 PVC DWV (ASTM D-2665) OR SDR 35 PVC (ASTM D-3034) WITH CEMENTED JOINTS (ASTM D-2564).
3. REFER TO SHEET C3.1 FOR SLOPES AND INVERTS.

STANDARD AREA DRAIN
SCALE: NTS

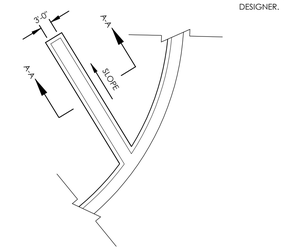
2



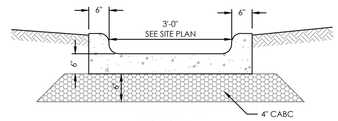
FRENCH DRAIN
SCALE: NTS

3

NOTES:
1. CONCRETE FOR CURB AND GUTTER SHALL BE 3,000 PSI @ 28 DAYS.
2. FORM MUST BE SMOOTH, UNIFORM, AND ACCEPTABLE TO PROJECT DESIGNER.



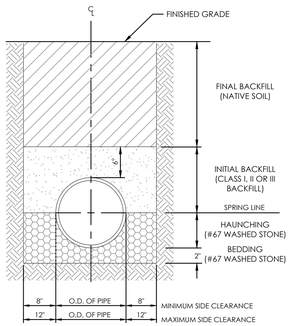
PLAN



SECTION A-A

CONCRETE FLUME
SCALE: NTS

4



NOTES:
1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LAYERS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.
5. IF ROCK IS ENCOUNTERED AT BOTTOM OF TRENCH, OVER EXCAVATE ROCK A MIN. OF 6" AND BACK FILL WITH NO. 67 STONE TO THE BOTTOM OF PIPE.

HDPE STORM PIPE TRENCHING
SCALE: NTS

5

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

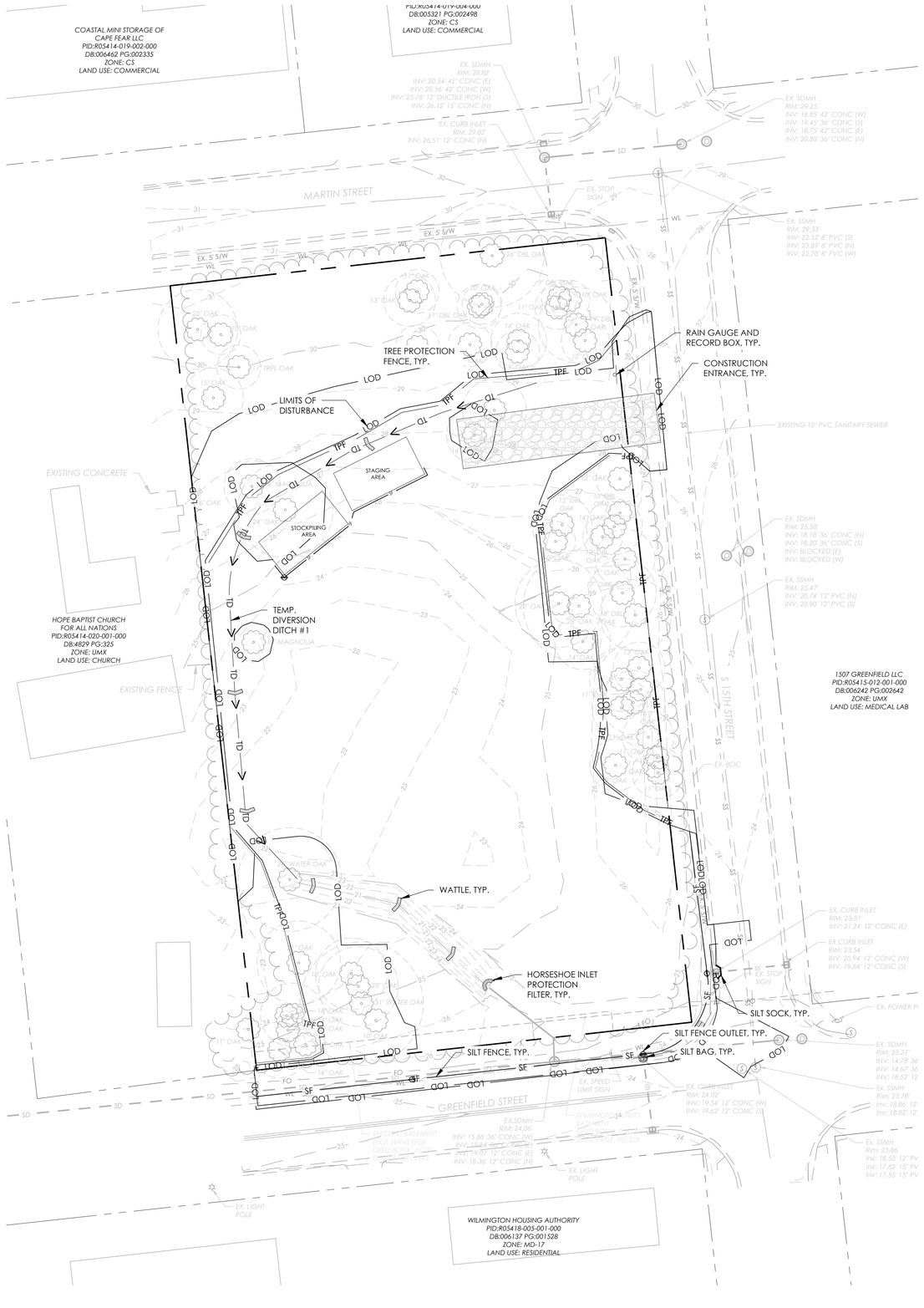
PERMIT SET

STORM DRAINAGE DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CD501

10/28/2022 3:40 PM K:\2021\SF21.285.00 MJ Clinic Greenfield SN\LD\CAD\CDs\CD501.dwg



EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE

EROSION AND SEDIMENT CONTROL - PHASE 1

1. SCHEDULE A PRE-CONSTRUCTION EROSION CONTROL CONFERENCE WITH THE NEW HANOVER COUNTY ENVIRONMENTAL CONSULTANT.
2. OBTAIN AN EROSION AND SEDIMENT CONTROL/LAND DISTURBANCE /GRADING PERMIT. A HARD COPY OF THE EROSION & SEDIMENT CONTROL PLANS, AND ALL SELF-INSPECTION RECORDS MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE AT ALL TIMES FOR INSPECTION. LAND DISTURBANCE ACTIVITIES MAY NOT BEGIN UNTIL LAND DISTURBANCE PERMIT IS OBTAINED.
3. INSTALL TREE PROTECTION/SILT FENCE AROUND ALL TREE CONSERVATION AREAS AND SILT FENCE OUTLETS PER THE APPROVED PLANS.
4. THE CONTRACTOR SHALL POST THE SEDIMENTATION CERTIFICATE OF APPROVAL AT THE CONSTRUCTION ENTRANCE AND MAINTAIN A COPY OF THE EROSION AND SEDIMENT CONTROL PERMIT IN THE PERMITS BOX. ANY CHANGES TO PROJECT DESIGN THAT RESULT IN ADDITIONAL DISTURBANCE OR CHANGE THE DRAINAGE PATTERNS SHALL BE SUBMITTED TO NEW HANOVER COUNTY EROSION CONTROL FOR PERMIT MODIFICATION.
5. EXISTING UTILITIES SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO DEMOLITION, CONSTRUCTION, OR LAND DISTURBANCE ACTIVITIES BEGIN.
6. CONTACT THE NEW HANOVER COUNTY EROSION CONTROL AT LEAST 48 HOURS PRIOR TO COMMENCING LAND-DISTURBING ACTIVITY. THE CONTACT NUMBER IS (910) 798-7139.
7. NO MASS CLEARING, DEMOLITION, CONSTRUCTION, OR LAND DISTURBANCE ACTIVITIES SHALL BEGIN UNTIL ALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED IN LOCATIONS AS SHOWN ON THE CONTRACT DRAWINGS AND INSPECTION APPROVAL HAS BEEN PROVIDED. IF CLEARING IS REQUIRED FOR INSTALLATION OF A GIVEN MEASURE, ALL OTHER MEASURES SHALL BE INSTALLED FIRST, THEN NECESSARY LAND DISTURBANCE ACTIVITIES REQUIRED FOR INSTALLATION OF THE GIVEN MEASURE MAY BE PROCEED AFTER THE PERMIT IS ISSUED.
8. INSTALL RAIN GAUGE ON SITE TO FACILITATE RAINFALL MONITORING. THE CONTRACTOR SHALL MAINTAIN THESE RECORDS IN THE PERMIT BOX FOR AUDIT BY REGULATORY AGENCIES.
9. MARK LIMITS OF DISTURBANCE BY STAKING OUT.
10. UPON TREE PROTECTIONS FENCE INSTALLATION APPROVAL (BY NEW HANOVER COUNTY), INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE OR OTHER PERIMETER PROTECTION MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
11. SCHEDULE AN ONSITE INSPECTION BY THE NEW HANOVER COUNTY ENVIRONMENTAL CONSULTANT TO OBTAIN A LAND DISTURBANCE PERMIT.
12. ONCE APPROVED BY THE NEW HANOVER COUNTY ENVIRONMENTAL CONSULTANT, BEGIN DEMOLITION, CLEARING, AND ROUGH GRADING.
13. ALL DIVERSIONS/SWALES, WHETHER TEMPORARY OR PERMANENT, WILL BE LINED TO THE TOP OF THE BANK. TEMPORARY DIVERSION DITCH (TDD) #1 TO BE INSTALLED AND MAINTAINED DURING ENTIRETY OF CONSTRUCTION TO THE SPECIFIED DIMENSIONS SEEN ON SHEET CE 503. TDD #1 WILL BECOME PERMANENT SWALE #1 IN BUILT-OUT CONDITION. TIE TDD #1 INTO EXISTING SWALE IN CURRENT CONDITIONS.
14. CONTRACTOR SHALL INSTALL SILT FENCE AND SILT FENCE OUTLETS ON DOWNSTREAM SIDES OF ANY STOCKPILE MATERIAL. DISPOSAL OF ANY EXCESS MATERIAL(S) TO BE TAKEN OFF SITE, SHALL BE DONE SO IN A MANNER THAT MEETS THE CONDITIONS OF LOCAL, STATE, AND FEDERAL REGULATIONS.
15. ALL CONSTRUCTION VEHICLES, INCLUDING SUPPLIERS AND SUB-CONTRACTORS, SHALL ENTER AND LEAVE THE SITE ONLY AT THE CONSTRUCTION ENTRANCE. TAKE CARE TO PREVENT SEDIMENT FROM LEAVING THE SITE DURING THE CONSTRUCTION ENTRANCE INSTALLATION. MAINTAIN THE CONSTRUCTION ENTRANCE DAILY TO ENSURE THAT MUD AND SILT WILL NOT BE TRACKED ONTO PAVED SURFACES. IF MUD IS TRACKED ONTO ROAD SURFACES, IT IS TO BE REMOVED PRIOR THE END OF THE WORKDAY OR ANY RAIN EVENT, WHICHEVER IS FIRST.
16. CONSTRUCTION ENTRANCE LOCATION AND DIMENSIONS MAY NOT VARY WITHOUT PRIOR APPROVAL FROM THE SEALING PROFESSIONAL AND PERMITTING AUTHORITY.
17. THE CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF THE EROSION AND SEDIMENT CONTROL MEASURES AND COMPLETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE NCDEQ WEBSITE. COMPLETE INSPECTION FORMS SHALL BE ALWAYS KEPT ON-SITE AND AVAILABLE FOR INSPECTION. IT IS RECOMMENDED A COPY BE KEPT IN A PERMITS BOX.
18. SELF-INSPECTION FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 IN. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. TAKE IMMEDIATE CORRECTIVE ACTION FOR ANY DEVICE FAILURE.
19. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON THE SITE.

PHASE 1 EROSION AND SEDIMENT CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE : ±64,693 SF / 1.48 AC
2. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY EROSION & SEDIMENT CONTROL DEVICES OR MEASURES.
3. SOIL AND OTHER MATERIALS SHALL BE ONLY TEMPORARILY STOCKPILES WITHIN THE CONSTRUCTION LIMITS AND PROTECTED BY EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS NECESSARY, SEE SLOPE & SURFACE STABILIZATION NOTES ON SHEET CE130.
4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY AND MAY BE RELOCATED AS NECESSARY TO COMPLETE CONSTRUCTION ACTIVITIES. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED , AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
5. IN ADDITION TO THE MEASURES SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE INTERIM SILT FENCES, DIVERSION DITCHES, BERMS, OR OTHER METHODS AS REQUIRED TO DIRECT DRAINAGE AS SHOWN ON THE PLANS AND TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STAND AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONLY AFTER FINAL INSPECTION AND APPROVAL FROM A REPRESENTATIVE OF THE PRESIDING JURISDICTION.
6. TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE, OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TREPASSING/TREE PROTECTION AREA / PROHIBIDO ENTRAR/ZONA PROTECTORA, PARA LOS ARBOLES."
7. TEMPORARY CONSTRUCTION FENCE SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY.
8. REFER TO DETAIL SHEETS CE500 FOR DETAILS.
9. REFER TO SHEET CE130 FOR SEEDING SCHEDULE.

30' 15' 0 30'
SCALE: 1" = 30'

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL-PHASE 1

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CE100

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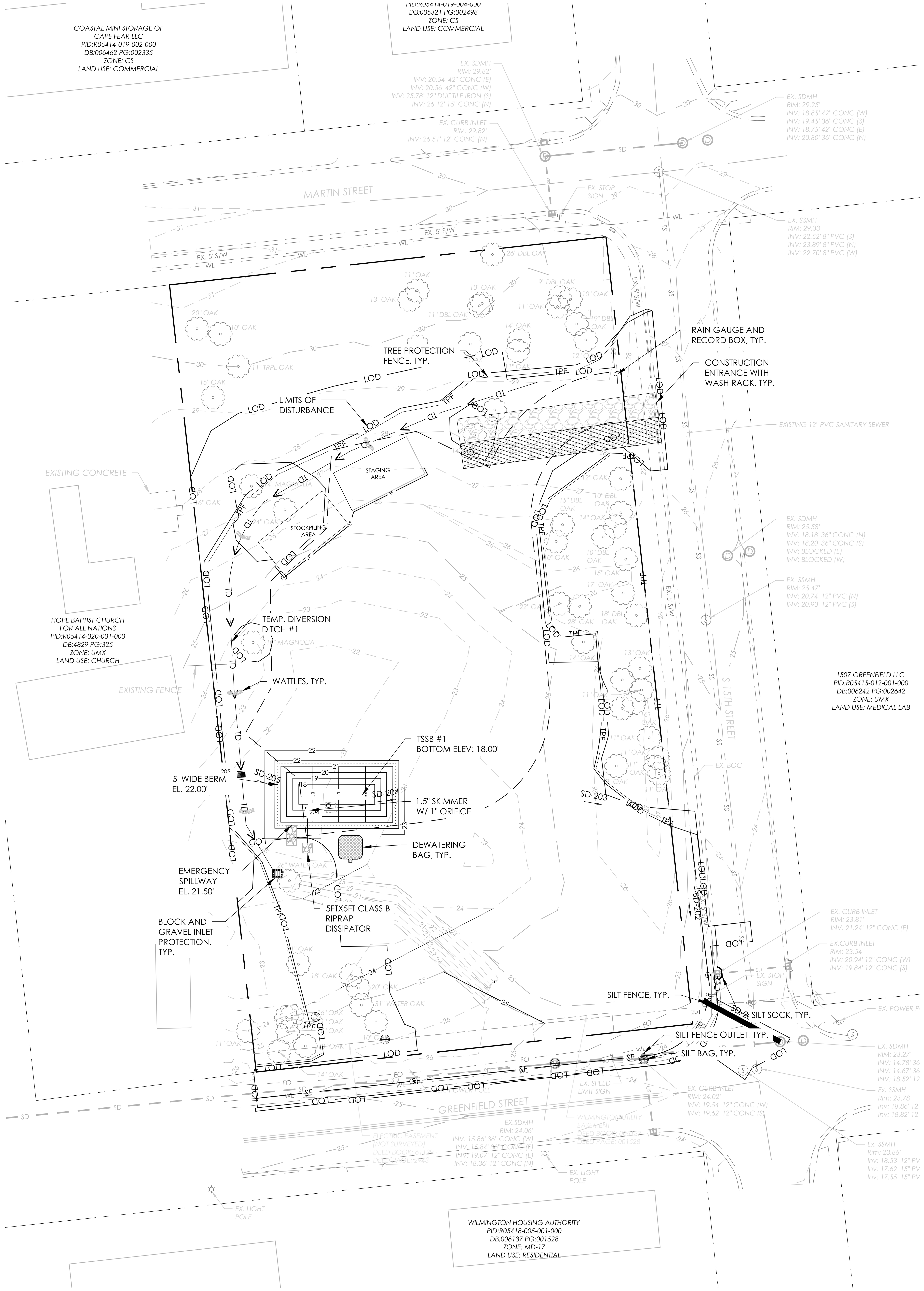

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EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE

EROSION AND SEDIMENT CONTROL SEQUENCE - PHASE 2

1. CONTRACTOR TO CONDUCT INSPECTION OF THE SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO BEGINNING EACH PHASE AND REPAIR AS NEEDED. RELOCATE / ADD NEW DEVICES AS NEEDED. MAINTAIN DEVICES THROUGHOUT PHASE.
2. INSTALL, MAINTAIN, AND ADJUST EROSION & SEDIMENT CONTROL MEASURES AS NEEDED DURING DEMOLITION, CLEARING AND GRUBBING, AND THROUGHOUT THE LIFE OF THE PROJECT AND UNTIL PERMANENT VEGETATION ON THE PROJECT IS ESTABLISHED.
3. ANY BARE SOILS BETWEEN DIVERSIONS OR DOWNSTREAM TOE OF SEDIMENT BASINS WILL BE SEEDED, MULCHED, AND TACKED.
4. OUTLET PIPES AND STRUCTURES SHOWN ON CE110 TO BE CONSTRUCTED AND TDD#1 TIED INTO PIPE SYSTEM BEFORE EXISTING ONSITE DITCH IS FILLED.
5. TSSB #1 TO BE CONSTRUCTED USING THE CALCULATIONS SEEN ON SHEET CE503. TSSB #1 WILL OUTFLOW TO PROPOSED INLET 203. TSSB #1 IS TO BE MAINTAINED. CONTRACTOR TO COORDINATE CONVERSION FROM TSSB#1 TO SCM SINCE THERE IS OVERLAP. REMAINING DRAINAGE SYSTEM TO BE INSTALLED.
6. THE BUILDINGS AND STRUCTURES WILL BE CONSTRUCTED. THE SITE WORK WILL COMMENCE.
7. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, ETC. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON THE SITE. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
8. PERIMETER EROSION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE VEGETATED, PERMANENTLY STABILIZED, AND FINAL STABILIZATION INSPECTION IS APPROVED.

PHASE 2 EROSION AND SEDIMENT CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE : ±64,693 SF / 1.48 AC
2. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY EROSION & SEDIMENT CONTROL DEVICES OR MEASURES.
3. SOIL AND OTHER MATERIALS SHALL BE ONLY TEMPORARILY STOCKPILES WITHIN THE CONSTRUCTION LIMITS AND PROTECTED BY EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS NECESSARY, SEE SLOPE & SURFACE STABILIZATION NOTES ON SHEET CE130.
4. TEMPORARY CONSTRUCTION FENCE SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY.
5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY AND MAY BE RELOCATED AS NECESSARY TO COMPLETE CONSTRUCTION ACTIVITIES. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED , AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
6. IN ADDITION TO THE MEASURES SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE INTERIM SILT FENCES, DIVERSION DITCHES, BERMS, OR OTHER METHODS AS REQUIRED TO DIRECT DRAINAGE AS SHOWN ON THE PLANS AND TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STAND AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONLY AFTER FINAL INSPECTION AND APPROVAL FROM A REPRESENTATIVE OF THE PRESIDING JURISDICTION.
7. ALL EROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, PIPE INLET/OUTLET PROTECTIONS AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND REMOVAL IS APPROVED.
8. CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED.
9. REFER TO DETAIL SHEETS CE500-CE504 FOR DETAILS.
10. REFER TO SHEET CE130 FOR SEEDING SCHEDULE.

3 WORKING DAYS BEFORE YOU DIG
FOR THE LOCATION OF UNDERGROUND FACILITIES
Know what's below. Call before you dig.

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NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

30' 15' 0 30'
SCALE: 1" = 30'

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028948 DANIEL MILLER JR.
PRELIMINARY
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TRANSYSTEMS CORPORATION CORPORATE SEAL F-0453 N.C.

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

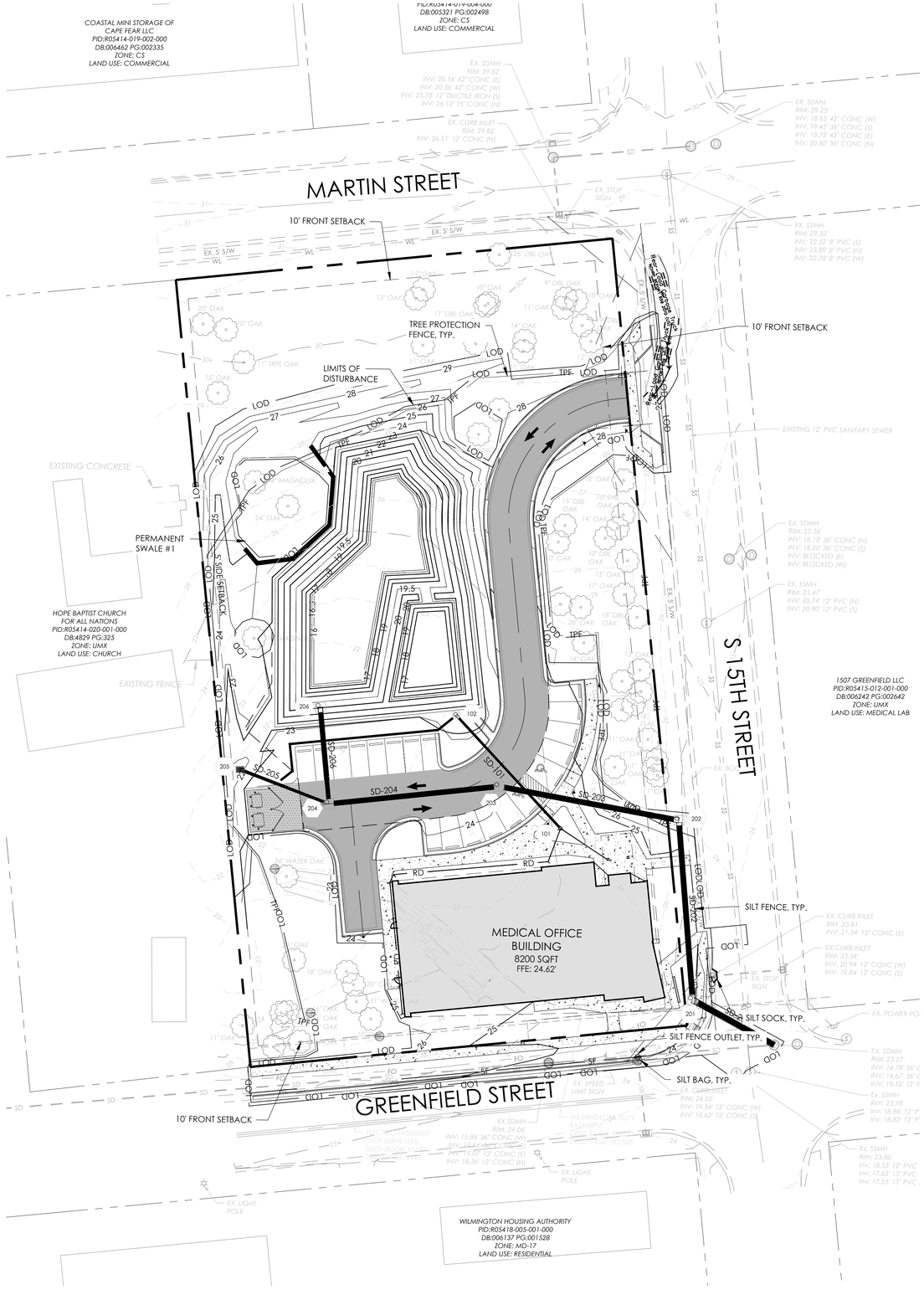
No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL-PHASE 2

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CE110



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PHASE 3 EROSION AND SEDIMENT CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE : ±64,693 SF / 1.48 AC
2. ALL EROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, PIPE INLET/OUTLET PROTECTIONS AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND REMOVAL IS APPROVED.
3. CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED.
4. REFER TO DETAIL SHEETS CE500-CE504 FOR DETAILS.
5. REFER TO SHEET CE130 FOR SEEDING SCHEDULE.

EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE

EROSION AND SEDIMENT CONTROL - PHASE 3

1. CONTRACTOR TO CONDUCT INSPECTION OF THE SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO BEGINNING EACH PHASE AND REPAIR AS NEEDED. RELOCATE / ADD NEW DEVICES AS NEEDED. MAINTAIN DEVICES THROUGHOUT PHASE.
2. REMOVE TSSB #1 WHEN STORM WATER SCM IS COMPLETELY INSTALLED AND IS READY TO BRING ONLINE. UTILIZE FILTER BAG FOR DEWATERING ACTIVITIES.
3. COMPLETE FINAL GRADING AND STABILIZE ADJACENT SLOPES FOR THE ENTIRE SITE.
4. PERIMETER EROSION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE VEGETATED, PERMANENTLY STABILIZED, AND FINAL STABILIZATION INSPECTION IS APPROVED.
5. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, SCHEDULE AN INSPECTION BY THE NEW HANOVER COUNTY ENVIRONMENTAL CONSULTANT.
6. AFTER THE SITE INSPECTION HAS BEEN COMPLETED AND SITE IS APPROVED, REMOVE TREE PROTECTION AND SILT FENCE, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW BE INSTALLED. PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
7. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN CERTIFICATE OF COMPLETION.

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SCALE: 1" = 30'

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1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

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EROSION & SEDIMENT CONTROL-PHASE 3

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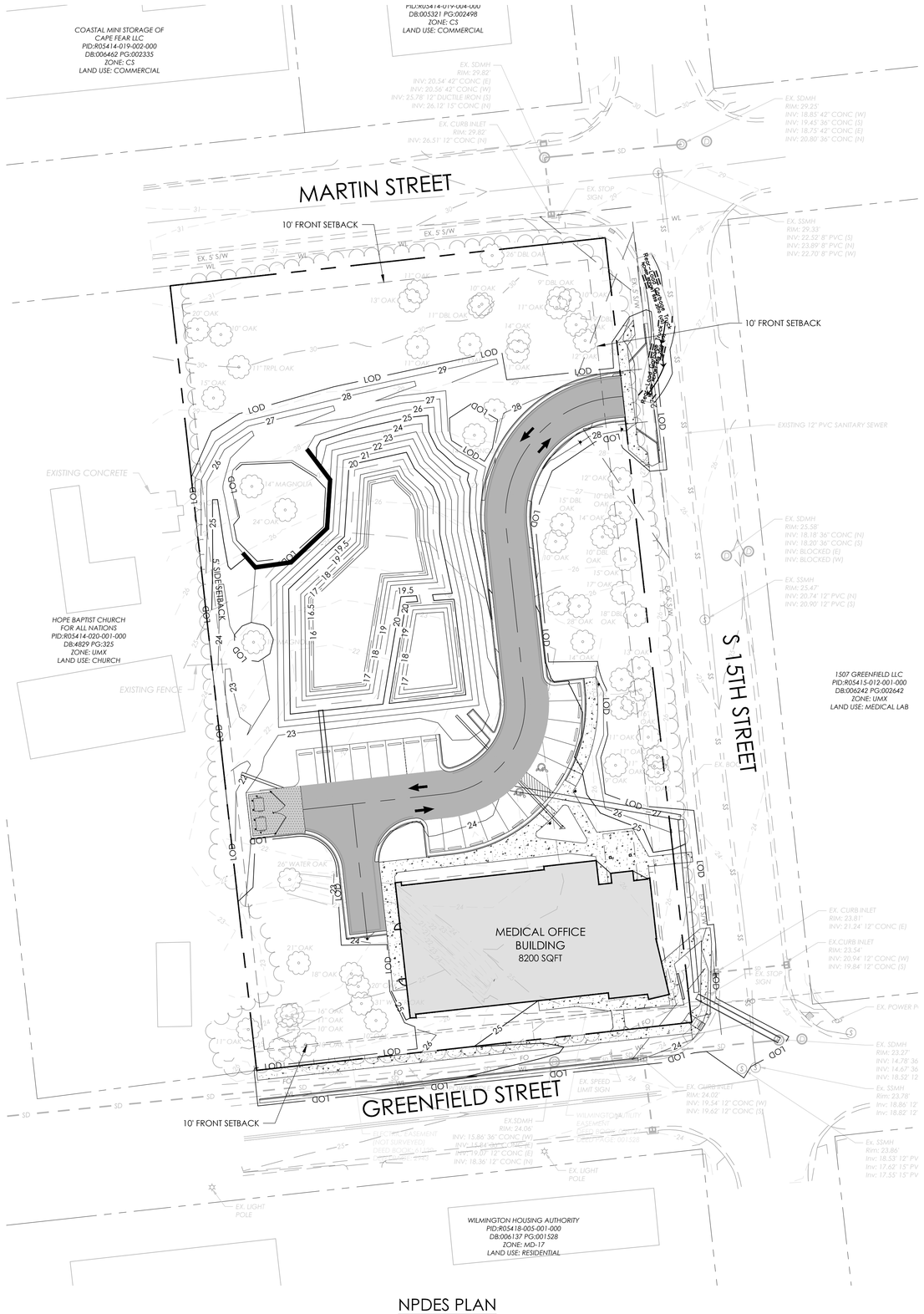
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CE120



NPDES STABILIZATION SCHEDULE

SITE AREA	SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
	1) GROUND STABILIZATION *		
1	• PERIMETER DIKES, SWALES, DITCHES, AND SLOPES	7 DAYS	NONE
	• HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
	• SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
2	• SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
3	• ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)
	* "EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE." [SECTION II.B(2)(b)]		
	2) BUILDING WASTES HANDLING		
	• NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS		
	• DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION, AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.		
	• EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.		
	• CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS		
	3) DISCHARGES TO FEDERALLY-LISTED WATERS		
	• REQUIREMENTS ARE THE SAME AS IN PREVIOUS PERMIT.		
	• THE PERMIT ALLOWS REDUCTION FROM THE 20 ACRE MINIMUM IF THE DIRECTOR OF DWQ DETERMINES THAT OTHER BMP'S PROVIDE EQUIVALENT PROTECTION.		
	4) INSPECTIONS		
	• SAME WEEKLY INSPECTION REQUIREMENTS		
	• SAME RAIN GAUGE & INSPECTIONS AFTER 0.5" RAIN EVENT		
	• INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"		
	• INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.		
	• RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE ON REQUEST.		
	• ELECTRONICALLY-AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS.		
	5) IMPLEMENTATION OF NEW PERMIT CONDITIONS		
	• PROJECTS PERMITTED UNDER THE PREVIOUS PERMIT CAN CONTINUE TO FOLLOW THE PREVIOUSLY PERMITTED CONDITIONS.		
	• COMPLETE APPLICATIONS RECEIVED PRIOR TO AUGUST 3, 2011 CAN FOLLOW CONDITIONS OF APPROVED APPLICATION.		
	• APPLICATIONS RECEIVED AFTER AUGUST 2, 2011 MUST COMPLY WITH NEW PERMIT CONDITIONS.		
	6) CONDITIONS IN EROSION & SEDIMENTATION CONTROL PLANS *		
	• DESIGNATION ON THE PLANS WHERE THE 7 AND 14-DAY GROUND STABILIZATION REQUIREMENTS OF THE NPDES PERMIT APPLY		
	• DESIGNATION ON THE PLANS WHERE BASINS THAT COMPLY WITH THE SURFACE-WITHDRAWAL REQUIREMENTS OF THE NPDES PERMIT ARE LOCATED.		
	7) SEDIMENT BASINS		
	• OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACE UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE.		
	• USE ONLY DWQ-APPROVED FLOCCULANTS.		

NPDES STABILIZATION LEGEND

- NPDES STABILIZATION AREA 1
- NPDES STABILIZATION AREA 2
- NPDES STABILIZATION AREA 3

EROSION AND SEDIMENT CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE = ±64,693 SF / 1.48 AC

ADMIXTURES

AGRICULTURAL LIMESTONE:	2 TONS / ACRE (3 TONS / ACRE IN CLAY SOILS)
FERTILIZER:	1,000 LBS / ACRE - 10-10-10
SUPERPHOSPHATE:	500 LBS / ACRE - 20% ANALYSIS
MULCH:	4,000 LBS / ACRE - SMALL GRAIN STRAW
ANCHOR:	ASPHALT EMULSION AT 400 GALS / ACRE

TEMPORARY SEEDING SCHEDULE

SHOULDERS, SIDE DITCHES, SLOPES (FOR SLOPES BETWEEN 2:1 AND 3:1)	
DATE	TYPE
MARCH 1 - JUNE 1	CENTIPEDEGRASS
MARCH 1 - JUNE 1	PANICUM VIRGATUM (SWITCHGRASS) AND
MARCH 1 - APRIL 15	ADD TALL FESCUE OR
MARCH 1 - JUNE 30	ADD WEEPING LOVEGRASS OR
MARCH 1 - JUNE 30	ADD HULLED COMMON BERMUDAGRASS
JUNE 1 - SEPTEMBER 1	***TALL FESCUE AND ***BROWNTOP MILLET OR ***SORGHUM-SUDAN HYBRIDS
SEPTEMBER 1 - MARCH 1	PANICUM VIRGATUM (SWITCHGRASS) AND TALL FESCUE
NOVEMBER 1 - MARCH 1	ADD ABRUZZI RYE

SHOULDERS, SIDE DITCHES, SLOPES (FOR SLOPES 3:1 AND FLATTER)	
DATE	TYPE
AUGUST 15 - NOVEMBER 1	TALL FESCUE
NOVEMBER 1 - MARCH 1	TALL FESCUE AND ABRUZZI RYE
MARCH 1 - APRIL 15	TALL FESCUE
MARCH 1 - JUNE 1	CENTIPEDEGRASS
APRIL 15 - JUNE 30	HULLED COMMON BERMUDAGRASS
JULY 15 - AUGUST 15	TALL FESCUE AND ***BROWNTOP MILLET OR ***SORGHUM-SUDAN HYBRIDS

NDPES DOCUMENTATION NOTES

1. THIS PAGE IS SUBMITTED TO COMPLY WITH THE NPDES GENERAL STORMWATER PERMIT NCG010000.
2. THIS PAGE CAN BE APPROVED BY THE CITY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
4. THE CITY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY CODE.

TEMPORARY SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL. (SEE ADMIXTURE BELOW)
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER, AND SEEDING RATES.
9. CONSULT E&SC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL. (SEE ADMIXTURE BELOW)
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER, AND SEEDING RATES.
9. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 50% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER, AND SEEDING RATES AND LANDSCAPING PLANS.
10. SEE SEEDING SCHEDULES ON THIS SHEET FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEEDED PER THE LANDSCAPING PLANS.

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ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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SCALE: 1" = 30'

NPDES PLAN
Scale: 1" = 30'

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 028948 ENGINEER DANIEL MILLER WILMINGTON
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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

NPDES PLAN

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CE130

10/28/2022 3:42 PM X:\2021\SE21 280.00 MJ Clinic Greenfield St\LD\CAD\CDs\CE130.dwg

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE : ±64,693 SF / 1.48 AC
2. REFER TO PHASED EROSION AND SEDIMENT CONTROL PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING LAND CLEARING OR CONSTRUCTION ACTIVITIES.
3. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT, AS DIRECTED BY LOCAL AUTHORITIES. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED , AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
6. CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED.
7. THE CONTRACT SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOW ON THE PLANS.
8. ALL 3:1 SLOPES SHALL BE STABILIZED WITH 'NO-MOW' NATURALIZED SEED MIX AND EROSION CONTROL MATTING.
9. INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. ALL EROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, FINAL PIPE INLET/OUTLET PROTECTIONS, AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL REMOVAL IS APPROVED AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND APPROVAL.
11. INSTALL SLOPE EROSION CONTROL MATTING ON TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES, TEMPORARY SEDIMENT BASINS AND TEMPORARY SEDIMENT CATCHES, PER MANUFACTURERS SPECIFICATIONS.
12. INSTALL SLOPE EROSION CONTROL MATTING AS TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF GROUNDCOVER ON ALL TEMPORARY SLOPES GREATER THAN 6:1. INSTALL PER MANUFACTURERS SPECIFICATIONS.
13. MINIMUM REQUIRED SLOPE PROTECTION FOR ALL SLOPES GREATER THAN 3:1:
    - LESS THAN 10' ELEVATION CHANGE: MINIMUM JUTE NETTING.
    - GREATER THAN 10' ELEVATION CHANGE: MINIMUM NORTH AMERICAN GREEN S75 EROSION CONTROL MATTING OR EQUIVALENT.
14. MAXIMUM GRADED SLOPE SHALL NOT EXCEED 2:1.
15. GROUND COVER STABILIZATION SHALL BE IN ACCORDANCE WITH NPDES PERMIT AND THE GROUND STABILIZATION TABLE ON THIS SHEET.
16. DURING ALL PHASES OF CONSTRUCTION GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED FOLLOWING THE COMPLETION OF ANY PHASE OF GRADING, ACCORDING TO THE GROUND STABILIZATION TABLE ON THIS SHEET.
17. TEMPORARY CONSTRUCTION FENCE SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY.
18. ALL STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
19. INITIAL STORMWATER INLET PROTECTION FOR NEW STORM STRUCTURES SHALL BE ROCK AND GRAVEL INLET PROTECTIONS.
20. ALL ROCK AND GRAVEL INLET PROTECTIONS FOR STRUCTURES WITHIN PAVED AREAS SHALL BE CONVERTED TO SILT BAG INLET PROTECTION TYPE DURING BASE PREPARATIONS FOR CURBING AND PAVEMENT.
21. IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY & ANY RELATED BORROW OR WASTE ACTIVITY, THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE SEDIMENTATION POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING ACT.
22. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
23. SOIL STOCKPILES SHALL BE LIMITED TO THE SHORTER OF 30 FEET ABOVE EXISTING GRADE OR HOLD THE HEIGHT OF THE ADJACENT EXISTING MATURE TREE COVER WITH SLOPES OF 2:1 OR FLATTER.
24. ALL EROSION AND SEDIMENT CONTROL ACTIVITIES SHALL BE IN ACCORDANCE WITH NEW HANOVER COUNTY UNIFIED DEVELOPMENT ORDINANCE ARTICLE 8 -- EROSION AND SEDIMENT CONTROL.

NCDEQ - DEMLR SELF-INSPECTION PROGRAM

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED.

RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TAKE EFFECT OCTOBER 1, 2010.

THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

EXCERPTS FROM THE NORTH CAROLINA GENERAL STATUES AND THE NORTH CAROLINA ADMINISTRATIVE CODE CONCERNING SELF-INSPECTIONS ARE ENCLOSED. TO BETTER EXPLAIN THE REQUIREMENTS, A LIST OF FREQUENTLY ASKED QUESTIONS IS ALSO ENCLOSED, ALONG WITH A SELF-INSPECTION REPORT FORM. THE SELF-INSPECTION REPORT FORM WILL ALSO BE AVAILABLE AS AN EXCEL SPREADSHEET FROM THE LAND QUALITY WEB SITE,

http://www.dlr.enr.state.nc.us/pages/sedimentation_new.html

811 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028948 DANIEL MILLER III
ADMINISTRATIVE REVIEW ONLY, NOT FOR CONSTRUCTION

TRANSYSTEMS CORPORATION CORPORATE SEAL F-0453 N.C.

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CE500

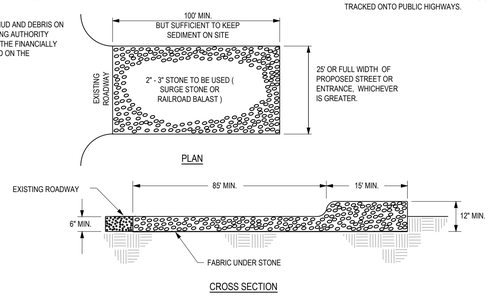
10/28/2022 3:42 PM KYLIZOTI \\SE21_285.00 MJ Clinic Greenfield SHLD\CAD\CDs\CE500.dwg

NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLE MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. IF A PROJECT CONTINUES TO PULL MUD AND DEBRIS ON TO THE PUBLIC ROAD, THE GOVERNING AUTHORITY WILL CLEAN THE AREA AND INVOICE THE FINANCIALLY RESPONSIBLE PERSON AS INDICATED ON THE FINANCIAL RESPONSIBILITY FORM.

MAINTENANCE NOTES:

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED WASHED OR TRACKED ONTO PUBLIC HIGHWAYS.



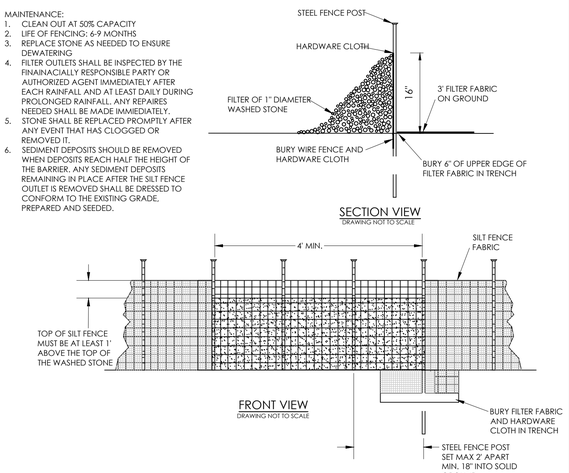
CONSTRUCTION ENTRANCE

SCALE: NTS

1

MAINTENANCE:

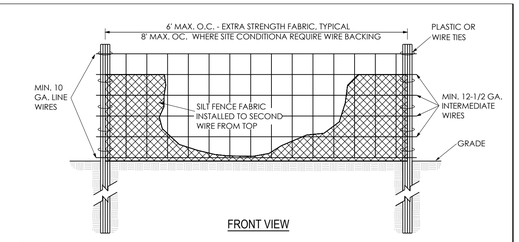
1. CLEAN OUT AT 50% CAPACITY
2. LIFE OF FENCING: 6-9 MONTHS
3. REPLACE STONE AS NEEDED TO ENSURE DEWATERING
4. FILTER OUTLETS SHALL BE INSPECTED BY THE FINAINACIALLY RESPONSIBLE PARTY OR AUTHORIZED AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRES NEEDED SHALL BE MADE IMMIEDIATELY.
5. STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR REMOVED IT.
6. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



SILT FENCE OUTLET

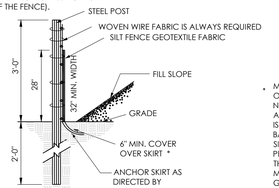
SCALE: NTS

2



NOTES:

- END OF SILT FENCE SHOULD BE TURNED UPHILL
- SEE N.C. STATE DENR PRACTICE STANDARDS & SPECIFICATIONS SEDIMENT FENCE SET FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATIONS & DESIGN CRITERIA. (HOWEVER FLOW SHALL NOT RUN PARRALLEL WITH THE TOE OF THE FENCE).



* MAINTENANCE: FOR REPAIR OF SILT FENCE FAILURES, LISE No. 57 WASHED STONE, FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN. IN EACH CASE THE SILT FENCE IS TO BE PROPERLY ENTRENCHED & THE STONE SHALL BE AT A MINIMUM OF 16" ABOVE GRADE AT THE DIRECTION OF FLOW & BETWEEN 60 - 45 DEGREES.

STANDARD TEMPORARY SILT FENCE

SCALE: NTS

3

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

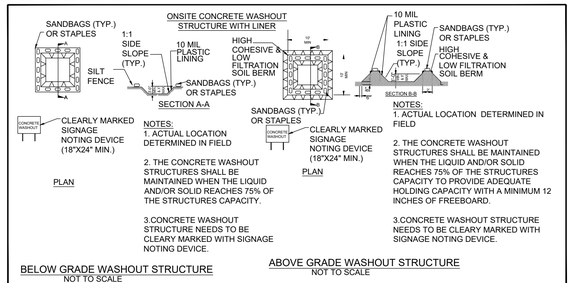
1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

10/28/2022 3:43 PM K:\2021\SEP1 288.00 MJ Clinic Greenfield SN\D\CADD\Cover Sheet.dwg

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 028948 ENGINEER DANIEL MILLER WILMINGTON
FOR PREVIEW ONLY, NOT FOR CONSTRUCTION

TRANSYSTEMS CORPORATION CORPORATE SEAL F-0453 N.C.

811 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES
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ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL DETAILS

ISSUE DATE
10/28/2022
CHECKED
L. DICKSON
SHEET BY
J. ADRIATICO
PROJECT NUMBER
21-025

CE501

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found ouside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

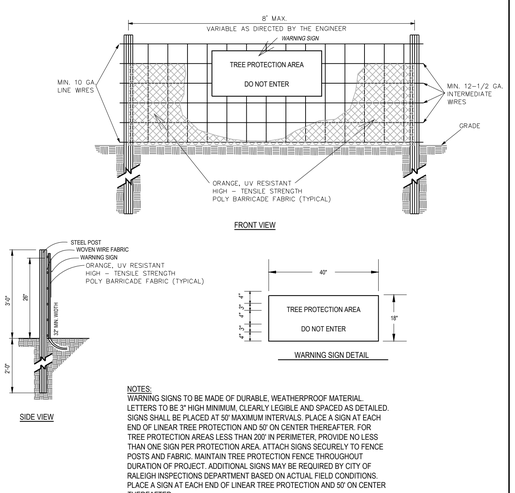
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

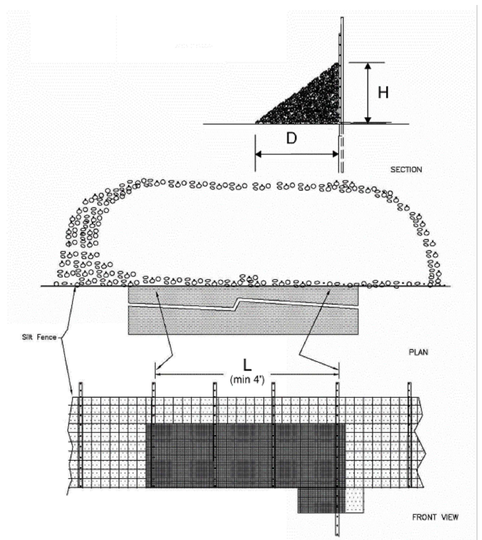
PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.



STANDARD TREE PROTECTION FENCE | SCALE: NTS | 4



SILT FENCE OUTLET SIZING DETAIL | SCALE: NTS | 5

Silt Fence Outlet Sizing

Outlet #	L (ft) (4' min)	D (ft) (1' min)	H (in)	Dv (ft^3)	Drainage Area (sf)	Drainage Area (ac)	Silt Fence Outlet Description
1	4	1	2	0.39	1132	0.03	Along Greenfield Street
2	4	1	2	0.80	2315	0.05	near intersection of Greenfield Street and S. 15th Street
3	4	1	2	0.48	1375	0.03	Along S. 15th Street, near intersection of S. 15th Street and Greenfield Street

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028948 DANIEL MILLER WILKINSON
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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

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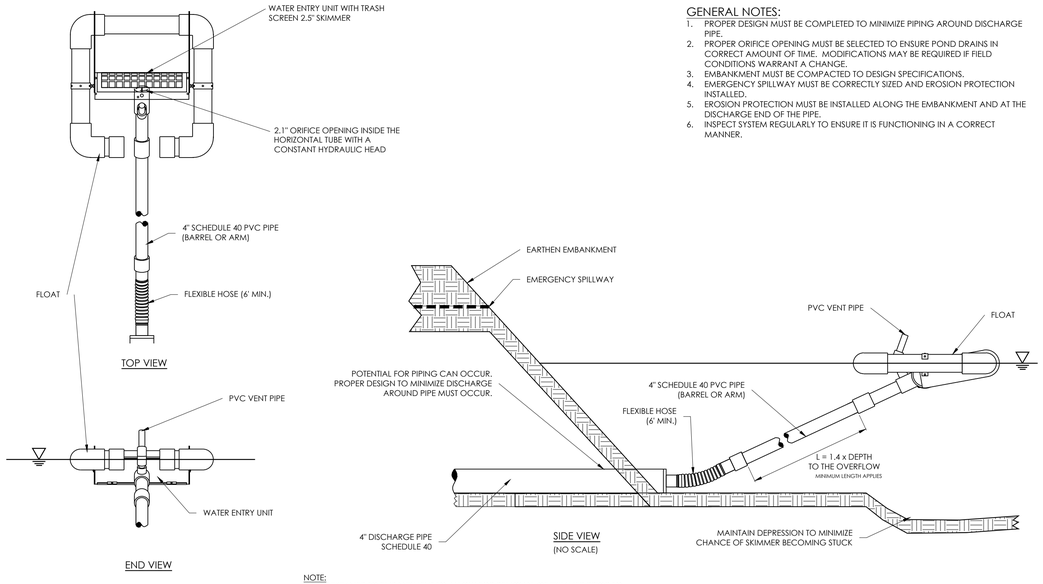


GENERAL NOTES:

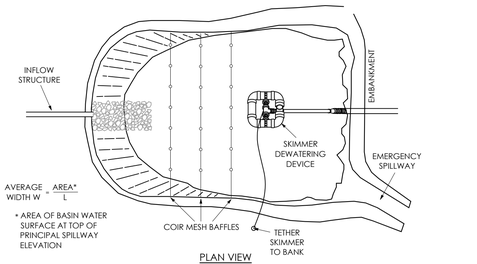
1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.

NOTE:
TETHER SKIMMER TO EMBANKMENT TO ALLOW FOR REMOVAL OF SKIMMER PRIOR TO EXCAVATION FOR PERMEABLE REACTIVE BARRIERS.

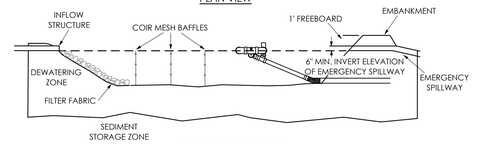
SKIMMER DISCHARGE SYSTEM WITH EMBANKMENT

SCALE: NTS

6



PLAN VIEW



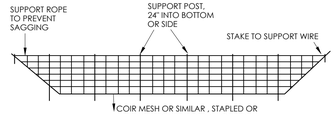
CROSS-SECTION VIEW

DESIGN CRITERIA

SUMMARY:	TEMPORARY SEDIMENT BASIN
PRIMARY SPILLWAY:	TRAPEZOIDAL SPILLWAY WITH IMPERMEABLE MEMBRANE
MAXIMUM DRAINAGE AREA:	10 ACRES
MINIMUM VOLUME:	1800 CUBIC FEET PER ACRE OF DISTURBED AREA
MINIMUM SURFACE AREA	325 SQUARE FEET PER CFS OF Q_{10} PEAK FLOW
MINIMUM L/W RATIO:	2:1
MAXIMUM L/W RATIO:	6:1
MINIMUM DEPTH:	2 FEET
DEWATERING MECHANISM:	SKIMMER
MINIMUM DEWATERING TIME:	24 HOURS
BAFFLES REQUIRED:	3 BAFFLES
DESIGN LIFE:	LESS THAN 3 YEARS

NOTES:

1. CONTRACTOR MAY INSTALL SKIMMER BASIN AS SHOWN ON THIS DETAIL WITH IMPERMEABLE MEMBRANE OR WITH PERMANENT RIPRAP AS SHOWN ON THE STORMWATER PLAN IN THE EMERGENCY SPILLWAY DETAIL.
2. IF CONTRACTOR WISHES TO INSTALL PERMANENT RIPRAP, THE RIPRAP SHOULD REMAIN CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.



CROSS-SECTION OF A POROUS BAFFLE IN A SKIMMER BASIN. NOTE THAT THERE IS NO WEIR BECAUSE THE WATER FLOWS THROUGH THE BAFFLE MATERIAL.

BAFFLES

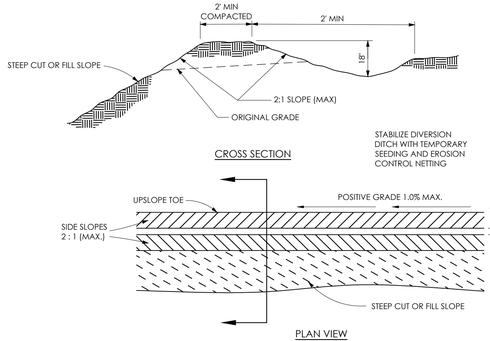
TEMPORARY SKIMMER BASIN

SCALE: NTS

7

Temporary Erosion and Sediment Control Structure Summary

Facility	Disturbed Area (ac)	Q10 (cfs)	Volume Required (ft^3)	Surface Area Required (ft^2)	Width (ft)	Length (ft)	Side Slope Ratio (Z:1)	Depth (ft)	Weir Width (ft)	Depth of Flow (ft)	Spillway Capacity (cfs)	Skimmer Size (in)	Orfice Size (in)	Dewatering Time (Days)
TSSB#1	1.34	2.49	2409	810	28	56	3	3	5	1	15.0	1.5	1.0	3.0

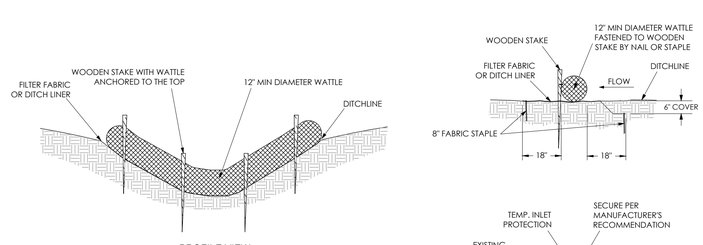


MAINTENANCE NOTES:
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

DIVERSION DITCH DETAIL

SCALE: NTS

8



NOTES:

1. WATTLES SHALL BE FILLED WITH STRAW OR OTHER APPROVED MATERIAL.
2. SPACING FOR WATTLES SHALL BE DETERMINED BY THE SITE ENGINEER.
3. WATTLES MAY BE USED FOR PROTECTION OF CATCH BASINS AND DROP INLETS WITH APPROVAL BY THE STORMWATER PROGRAM MANAGER OR DESIGNEE.
4. FOR USE OF WATTLE IN A DITCH, GRADE OF DITCH MUST BE <2.5%.

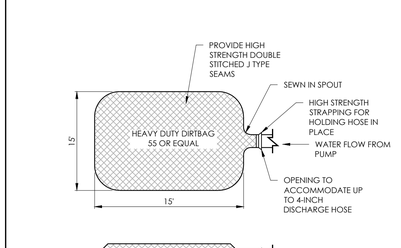
MAINTENANCE:

1. **WATTLES SHALL BE INSPECTED AFTER INSTALLATION TO INSURE THAT THEY ARE TRENCHED-IN AND THAT NO GAPS EXIST UNDER THE WATTLES OR BETWEEN ADJACENT ENDS OF THE WATTLES.**
2. **WATTLES SHALL BE INSPECTED AFTER SIGNIFICANT RAINFALL EVENTS. RILLS OR GULLIES UPSLOPE OF THE WATTLE AND ANY UNDERCUTTING IS TO BE REPAIRED.**
3. **SEDIMENT DEPOSITS THAT IMPAIR FILTRATION CAPABILITY OF THE WATTLE SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF WATTLES FUNCTIONAL FREEBOARD HEIGHT. REMOVED SEDIMENT SHALL BE DEPOSITED WITHIN THE PROJECT IN SUCH A WAY THAT THE SEDIMENT IS NOT SUBJECT TO EROSION BY WIND OR WATER, OR AS DIRECTED BY THE ENGINEER.**

WATTLE/INLET PROTECTION

SCALE: NTS

9



MAINTENANCE:
FOLLOW ALL MANUFACTURER RECOMMENDATIONS FOR INSPECTION AND MAINTENANCE GUIDELINES. REPLACE DEWATERING BAGS WHEN TRAPPED SEDIMENT HAS ACCUMULATED TO 50% OF BAG CAPACITY OR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

NOTES:

1. THE DEWATERING BAG SHALL BE MADE OF NON-WOVEN GEOTEXTILE WITH A MINIMUM SURFACE AREA OF 225 SQUARE FEET PER SIDE.
2. ALL STRUCTURAL SEAMS SHALL BE SEWN WITH A DOUBLE STITCH USING A DOUBLE NEEDLE MACHINE WITH A HIGH STRENGTH THREAD.
3. THE SEAM STRENGTH SHALL WITHSTAND 100 LB/IN USING ASTM D-4884 TEST METHOD
4. THE GEOTEXTILE FABRIC SHALL BE A 10 OUNCE NON-WOVEN FABRIC.
5. DISCHARGE FROM THE DEWATERING BAG SHALL BE DIRECTED SUCH THAT PRE-DISTURBANCE HYDROLOGY IS NOT CHANGED.

DEWATERING BAG

SCALE: NTS

10

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

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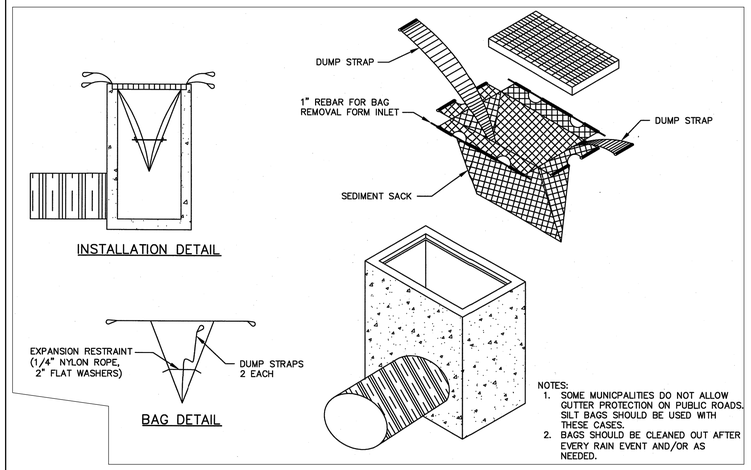
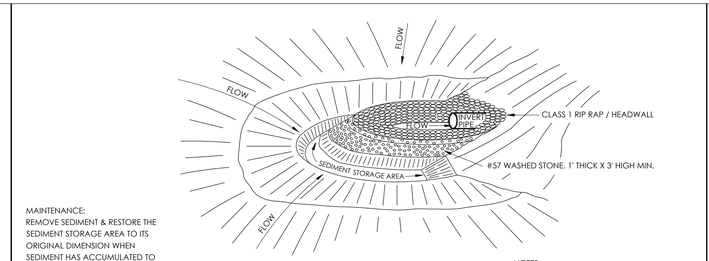


STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE

SCALE: NTS

11

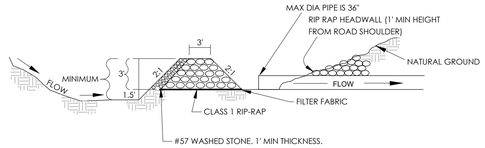


PLAN VIEW

MAINTENANCE:
REMOVE SEDIMENT & RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSION WHEN SEDIMENT HAS ACCUMULATED TO 1/2 DESIGN DEPTH OF THE TRAP.

ANY RIP-RAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY.

NOTES:
IF EXCAVATED STORAGE AREA IS USED AS TEMPORARY SEDIMENT TRAP, THE DESIGN CRITERIA FOR TEMPORARY SEDIMENT TRAP MUST BE SATISFIED.

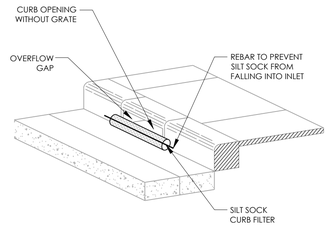


CROSS SECTION

HORSESHOE PIPE INLET PROTECTION FILTER

SCALE: NTS

12



CURB INLET SILT SOCK

SCALE: NTS

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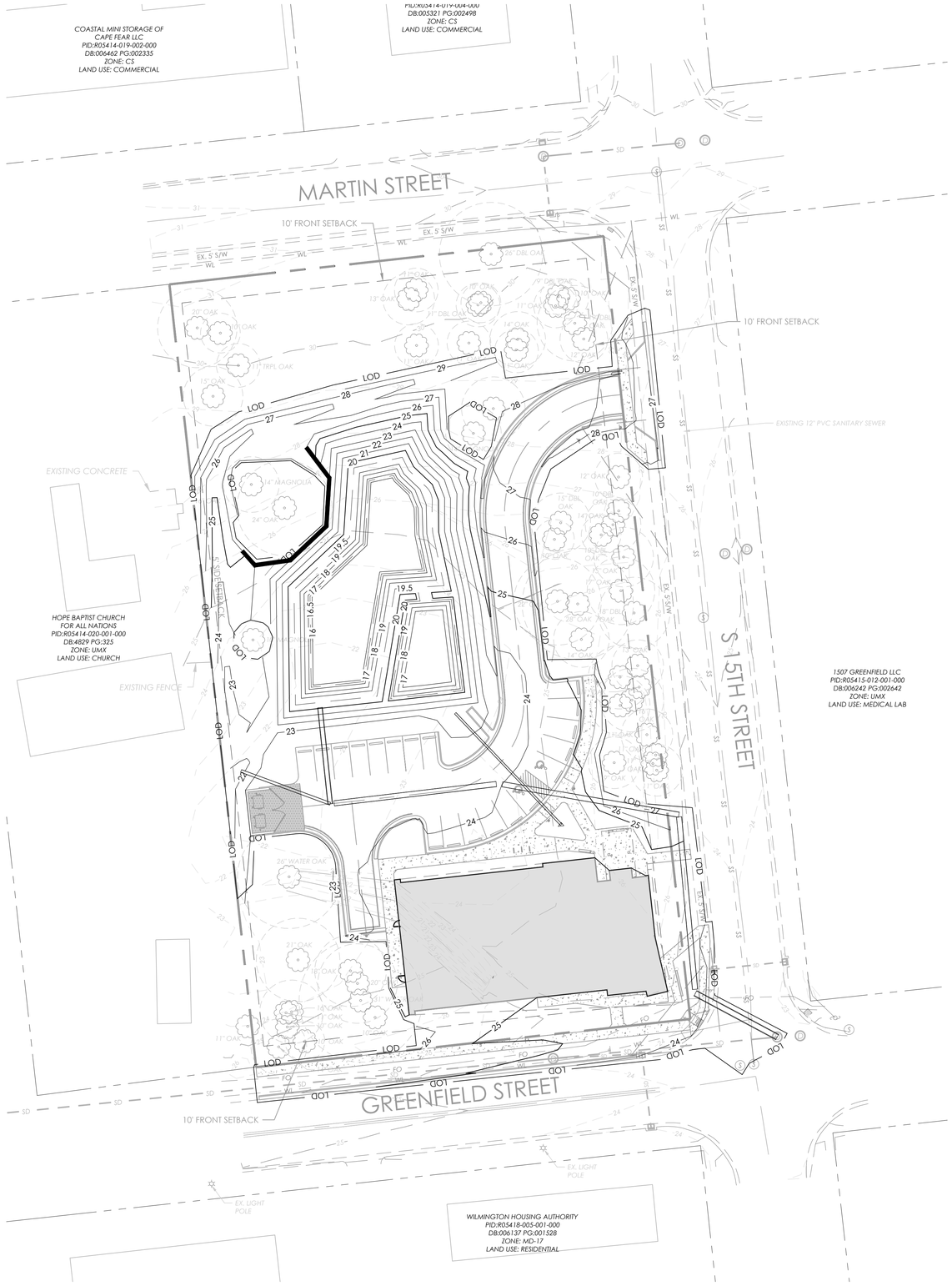

GRADING PLAN
Scale: 1" = 30'

GRADING NOTES

1. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.

2. THE CONTRACTOR SHALL HIRE AN INDEPENDENT GEOTECHNICAL ENGINEER, LICENSED IN NORTH CAROLINA, TO PROVIDE THE FOLLOWING SERVICES (CRITICAL GEOTECHNICAL ENGINEERING ITEMS OF CONSTRUCTION MONITORING THAT REQUIRE SPECIAL INSPECTION):
   - EXAMINATION OF FOUNDATION SUBGRADE CONDITIONS
   - SUPERVISION OF SUBGRADE PREPARATION
   - SUPERVISION OF EXCAVATION AND BACKFILL PLACEMENT AND COMPACTION
   - SUPERVISION OF BEDDING, SUBGRADE AND BACKFILL CONSTRUCTION
   - FILL AND PAVEMENT MATERIALS TESTING
   - SUPERVISION OF PAVEMENT CONSTRUCTION
   - ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF IN-PLACE MATERIALS.

6. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE, WITH NO SHARP OR ABRUPT CHANGES.

7. ALL FILL TO BE COMPACTED TO 95% DRY DENSITY (STANDARD PROCTOR) UNDER PAVEMENT.

8. THE PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS. REFER TO SITE DETAILS TO ESTABLISH CORRECT SUB-BASE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.

9. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL FLOW BY GRAVITY AWAY FROM BUILDING(S) AND ACROSS NEW PAVEMENT AND/OR LANDSCAPE AREAS TO NEW OR EXISTING STORM DRAIN INLETS, SWALES, DITCHES OR OVERLAND SHEET FLOW.

10. TURF SHALL BE ESTABLISHED IN ALL DISTURBED AREAS AND AREAS LEFT UNPAVED AND WITHOUT GRAVEL IN ACCORDANCE WITH THE SPECIFICATIONS AND LANDSCAPE PLANS.

11. ALL SLOPES DRAINING TO SCM SHALL BE STABILIZED PER THE NORTH CAROLINA STATE EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

12. AT THE START OF GRADING INVOLVING THE LOWERING OF THE EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THIS CUT FARTHEST AWAY FROM THE TREE TRUNK.

13. NO STORAGE OF MATERIALS, DUMPING OF WASTE MATERIALS, FILL, OR PARKING OF EQUIPMENT SHALL BE ALLOWED WITHIN THE ROOT PROTECTION ZONE, AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE ROOT PROTECTION ZONE.

GRADING LEGEND

	EXISTING CONTOURS
	PROPOSED CONTOURS
EG=25.00	EXISTING GRADE SPOT ELEVATION
FG=25.00	PROPOSED FINISH GRADE SPOT ELEVATION
FFE=25.00	PROPOSED FINISH FLOOR ELEVATION

NOTE: SPOTS TAKEN ALONG CURB REPRESENT BOTTOM OF CURB, ADD 0.5' FOR TOP OF CURB ELEVATION.

30' 15' 0 30'
SCALE: 1" = 30'

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

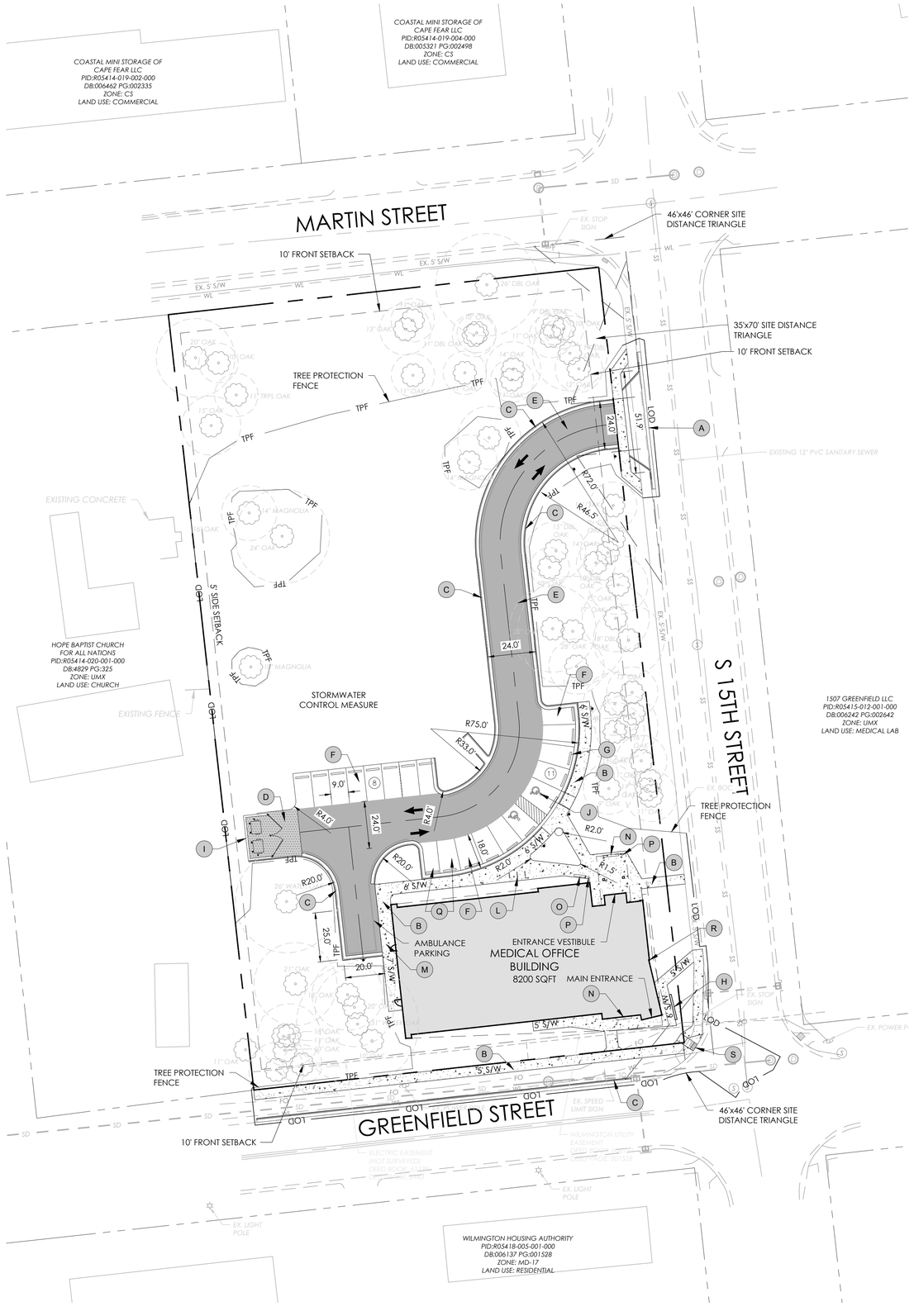
PERMIT SET

GRADING PLAN

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CG100

10/28/2022 3:38 PM K:\2021\SEP\ 285.00 MJ Clinic Greenfield SY\LD\CAD\CDs\CG100.dwg



SITE PLAN
Scale: 1" = 30'

SITE NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREIN BEFORE BEGINNING CONSTRUCTION.
2. ALL AREAS OUTSIDE THE "LIMITS OF CONSTRUCTION" SHALL REMAIN UNDISTURBED AT ALL TIMES.
3. TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. VEHICULAR ACCESS SHALL BE MAINTAINED AT ALL TIMES.
4. FIRE LANE MARKINGS SHALL CONFORM TO THE *CITY OF WILMINGTON* DESIGN DETAILS AND SPECIFICATIONS, *CITY OF WILMINGTON* FIRE MARSHAL, AND THE CURRENT NC FIRE CODE. IF THE CRITERIA IS CONFLICTING, THE MORE RESTRICTIVE DESIGN GUIDELINE SHALL BE FOLLOWED.
5. ALL INTERNAL PAVEMENT MARKINGS SHALL BE WHITE PAINT.
6. ALL PAVEMENT MARKINGS WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
7. ALL PAVED PARKING FACILITIES SHALL BE STRIPED WITH FOUR INCH WHITE LINES.
8. ALL ADA RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT ADA REQUIREMENTS AND NORTH CAROLINA BUILDING CODE.
9. ACCESSIBLE PARKING SPACE DIMENSIONS, SLOPE AND SIGNAGE SHALL COMPLY WITH THE MOST RECENT VERSION OF ANSI/ICC A117.1.
10. HANDRAILS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE.
11. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE, MAXIMUM SLOPE SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.
12. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL STAIRS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE.
13. ALL SIDEWALKS SHALL BE CONSTRUCTED OF CONCRETE.
14. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH THE LATEST VERSION OF THE NC BUILDING CODE.
15. DOORS ARE INDICATED ON ALL BUILDINGS FOR WHICH ARCHITECTURAL DESIGN HAS OCCURRED.
16. TRAFFIC CONTROL ON PUBLIC STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THESE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND AS FURTHER DIRECTED BY THE *CITY OF WILMINGTON* AND NCDOT.
17. ALL ON-SITE PAVEMENT SHALL BE STANDARD ASPHALT, UNLESS OTHER WISE NOTED.
18. WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT, CONTRACTOR SHALL MILL 1.5"x1.5" LAP JOINT IN EXISTING PAVEMENT.
19. NO PARKING SPACES, FENCES, WALLS, POSTS, LIGHTS, SHRUBS, TREES, OR OTHER TYPE OF OBSTRUCTIONS NOT SPECIFICALLY EXEMPTED SHALL BE PERMITTED IN THE SPACE BETWEEN 30 INCHES AND ABOVE GROUND AND 10 FEET ABOVE GROUND LEVEL WITHIN A TRIANGULAR SIGHT DISTANCE.
20. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30" TO 10' (VERTICALLY).
21. EXISTING WHEELCHAIR RAMPS SHALL BE RETROFITTED WITH FLEXIBLE SURFACE-APPLIED DETECTABLE WARNING MATS.
22. WHERE APPLICABLE, TREE PROTECTION FENCE IS THE LIMITS OF DISTURBANCE.

SITE IMPROVEMENTS

KEY	DESCRIPTION	DETAIL	SHEET
A	COMMERCIAL DRIVEWAY	SD 3-03.03	CS500
B	SIDEWALK	SD 3-10	CS500
C	CURBING	SD 3-11	CS500
D	HEAVY DUTY CONCRETE PAVING	1	CS501
E	HEAVY DUTY ASPHALT PAVING	3	CS501
F	STANDARD DUTY ASPHALT PAVING	2	CS501
G	CONCRETE WHEEL STOP	4	CS501
H	SEAT WALL		CS501
I	DUMPSTER ENCLOSURE	3	CS502
J	ACCESSIBLE PARKING SPACES	5	CS501
L	BIKE RACK	6	CS501
M	TURNDOWN SIDEWALK		
N	8' BACKLESS HUDSON BENCH AS MANUFACTURED BY FORMS + SURFACES. TO BE SURFACE MOUNTED PER MANUFACTURER'S DETAILS & SPECIFICATIONS		
O	6' HUDSON BENCH, WITH BACK, AS MANUFACTURED BY FORMS + SURFACES. TO BE SURFACE MOUNTED PER MANUFACTURER'S SPECIFICATIONS & DETAILS.		
P	TRASH RECEPTACLE		
Q	ELECTRIC VEHICLE READY PARKING SPACES - SEE MEP PLANS		
R	SPLASH BLOCK. REFERENCE ARCHITECTURAL SPECIFICATIONS FOR FURTHER DETAIL.		
S	ACCESSIBLE RAMP	SD3-07	CS500

PAVEMENT LEGEND

- CONCRETE
- HEAVY DUTY CONCRETE
- HEAVY DUTY ASPHALT

SITE DATA TABLE

ADDRESS	1410 S 15TH STREET WILMINGTON, NC 28401	
OWNER	NOVANT HEALTH, INC.	
PIN	3127-32-9330.000	
PARCEL ID #	R05414-020-002-000	
ZONING DISTRICT	UMX	
LIMITS OF DISTURBANCE	64,693 SF / 1.48 AC	
PROJECT LOT AREA	CURRENT: 2.00 ACRES (87,120SF)	PROPOSED: 1.99 ACRES (87,115.5SF)
WATERSHED	GREENFIELD LAKE	
RIVER BASIN	CAPE FEAR	
FLOODPLAIN	N/A	
WATERSHED OVERLAY DISTRICT	N/A	
USE	CURRENT: VACANT	PROPOSED: OFFICE & MEDICAL CLINIC
IMPERVIOUS	CURRENT: 0 SF	PROPOSED: 31,933 SF (0.73 AC)
CAMA LAND USE CLASSIFICATION	URBAN	
URBAN MIXED-USE DIMENSIONAL STANDARDS (UDO Table 18-43.1)		
SITE IS INSIDE THE 1945 CORPORATE LIMITS		
SETBACKS	REQUIRED	PROVIDED
FRONT	10' MAXIMUM	20'
SIDE	5' MINIMUM	59'
REAR	5' MINIMUM	12' (BOA VARIANCE REQUEST)
BUILDING HEIGHT	45' MAXIMUM	24'-0"
BUILDING INFORMATION		
BUILDING CONSTRUCTION TYPE	II-B	
BUILDING LOT COVERAGE	8.90%	
SQUARE FOOTAGE	7,752 SF	
TOTAL SQUARE FOOTAGE	7,752 SF	
NONRESIDENTIAL BASELINE PARKING RATIOS BY USE (UDO Table 18-341.2)		
	REQUIRED	PROVIDED
PARKING SPACES	NO REQUIREMENT	26 SPACES (3 ADA)
BICYCLE PARKING	2 SPACES OR 1 PER 5,000 SF OF GFA	3 RACKS / 6 SPACES
ESTIMATED TRIP GENERATION		
AM	PM	ADT
24	30	279

NOTES:
1. ALL DRIVEWAYS ALONG MAJOR THOROUGHFARES SHALL HAVE A PROPERTY LINE OFFSET OF 75' MEASURED AT THE CURBLINE. PROJECT DRIVEWAYS WILL HAVE TO SUBMIT FOR A VARIANCE DURING WILMINGTON TRC REVIEW.
2. ANY FREE STANDING SIGN(S) ON THE SITE SHALL BE MONUMENT STYLE WITH LANDSCAPING AROUND THE BASE OF THE SIGN; NO POLE SIGNS SHALL BE PERMITTED.

30' 15' 0 30'
SCALE: 1" = 30'

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

SITE PLAN

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CS100

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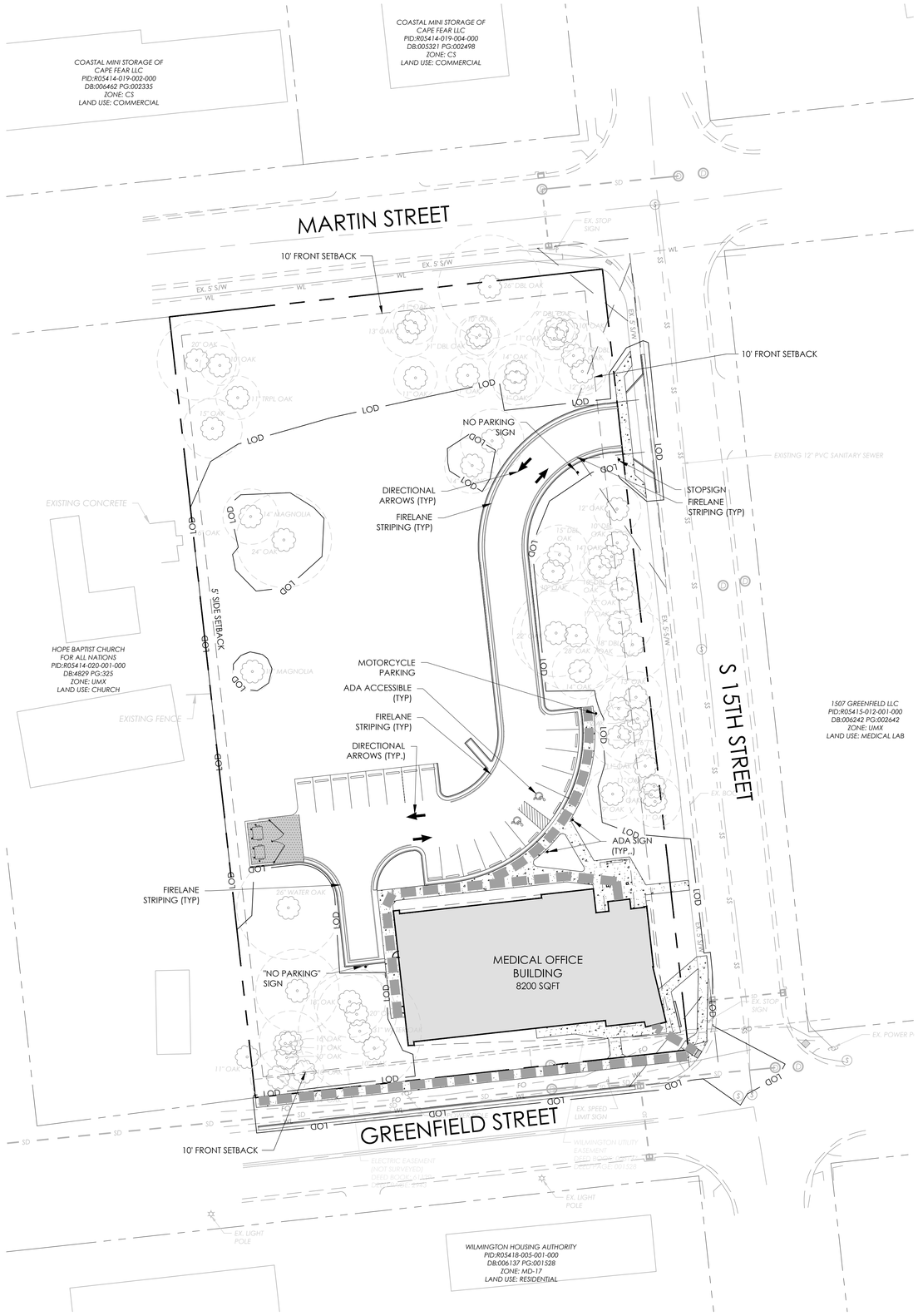

PAVEMENT MARKING & SIGNAGE PLAN

Scale: 1" = 30'

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PAVEMENT MARKINGS

MARKING TYPE	NCDOT STD.	SIZE	COLOR
PARKING SPACES	--	4-IN	WHITE
DIRECTIONAL ARROWS	1205.08	STANDARD	WHITE
NO PARKING -- FIRE LANE *	--	4-IN	YELLOW
SOLID	1205.01	4-IN	WHITE
DIAGONAL	1205.09	8-IN	YELLOW

*NO PARKING - FIRE LANE MARKING SHALL BE THERMOPLASTIC AND CONFORM TO CITY OF WILMINGTON STANDARD DETAIL/SPECIFICATIONS FIRE LANE STRIPING AND CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING - FIRE LANE" AT 40' INTERVALS.

SIGNAGE

SIGN TYPE	MUTCD STANDARD	SIZE
STOP	R1-1	30"X30"
NO PARKING ANYTIME	R7-1D	12"X18"
ACCESSIBLE PARKING SYMBOL	3B-22	28"X24"
NO PARKING LOADING ZONE	R7-6	12"X18"
MOTORCYCLE		

PAVEMENT MARKING AND SIGNAGE NOTES:

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
2. ALL SIGNS ARE TO BE MOUNTED WITH 7 FT MINIMUM, VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN, ON 3 LB GALVANIZED STEEL U-CHANNEL POST AND SET WITHIN 3 FT DEEP X 12 INCH DIAMETER CONCRETE FOOTING.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND PROJECT SPECIFICATIONS.
4. COORDINATE FIRE LANE MARKINGS WTIH CITY OF WILMINGTON FIRE MARSHAL.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKYD-RESIN TYPE PAINT.
6. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY THE PROJECT MANAGER PRIOR TO SIGN INSTALLATION.
7. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
8. COORDINATE FIRE LANE MARKINGS WITH TOWN OF MOORESVILLE FIRE MARSHAL.
9. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

CITY OF WILMINTON NOTES:

1. ANY REQUIRED INSTALLATION OR RELOCATION OF TRAFFIC SIGNS/PAVEMENT MARKING IS THE RESPONSIBILITY OF THE PROJECT DEVELOPER. PLEASE COORDINATE WITH CITY TRAFFIC SIGNS AND PAVEMENT MARKINGS MANAGER/SUPERVISOR PRIOR TO INSTALLATION/RELOCATION OF ANY TRAFFIC SIGNS OR MARKINGS IN EXISTING OR PROPOSED PUBLIC ROW.
2. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
3. ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBING WILL BE REPLACED.
4. CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN THE ROW.
5. CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.

LEGEND

ACCESSIBLE ROUTE

30' 15' 0 30'

SCALE: 1" = 30'

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

PAVEMENT MARKING & SIGNAGE PLAN

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SHEET BY J. ADRIATICO
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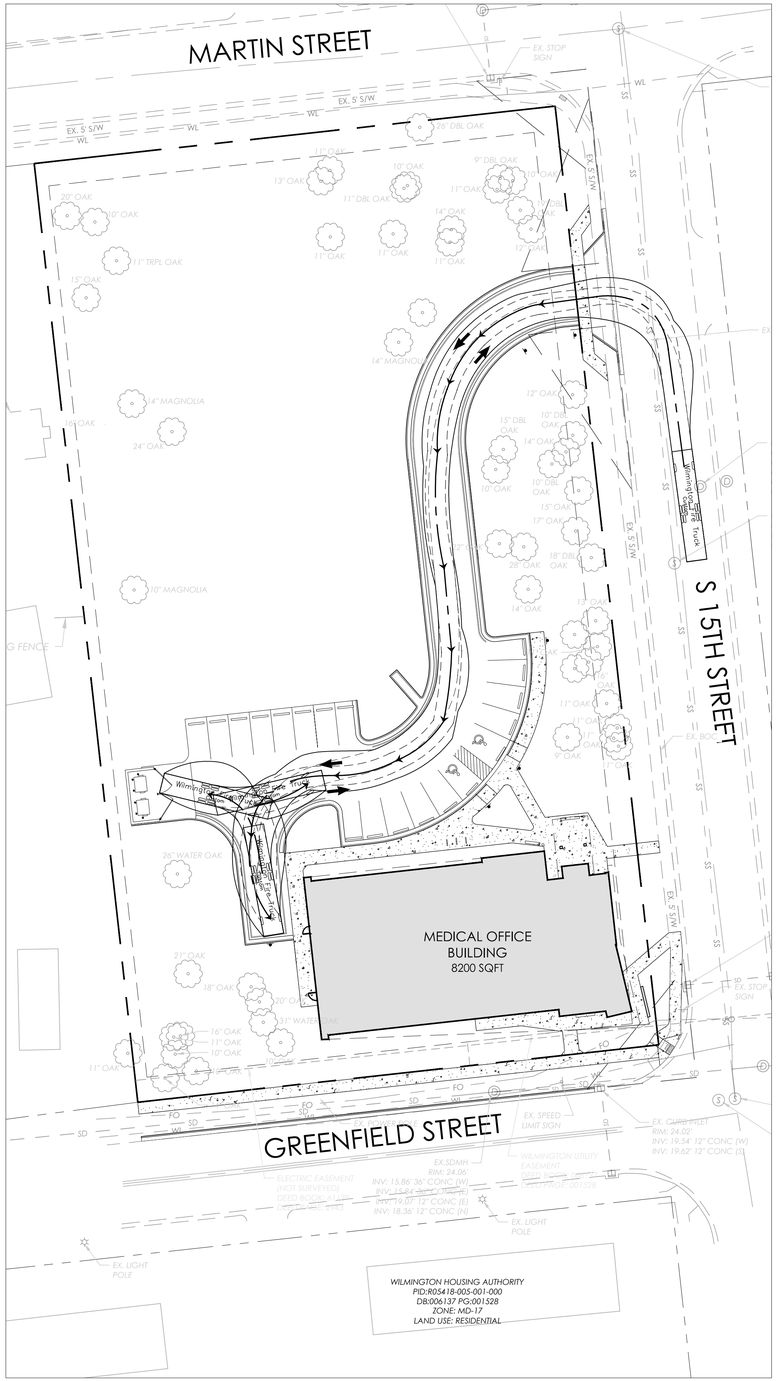
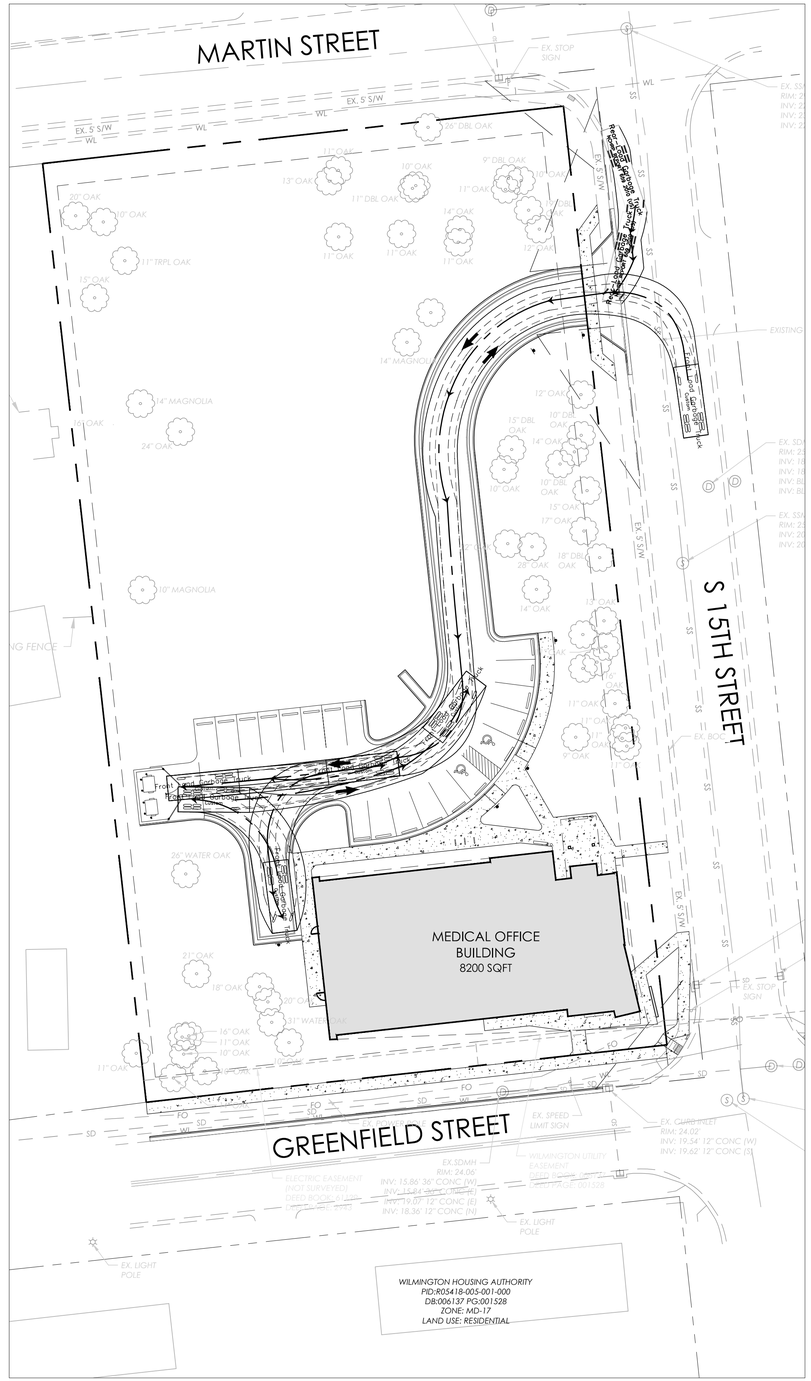


FIRE TRUCK MOVEMENT ENLARGEMENT

Scale: 1" = 30'



GARBAGE TRUCK MOVEMENT ENLARGEMENT

Scale: 1" = 30'

30' 15' 0 30'

SCALE: 1" = 30'

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

TURN MANEUVER ENLARGEMENTS

ISSUE DATE 10/28/2022

CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

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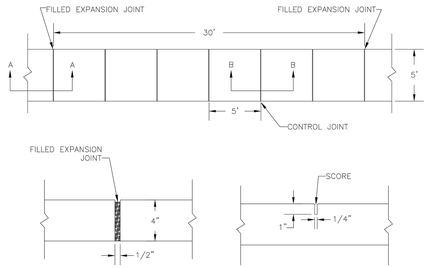


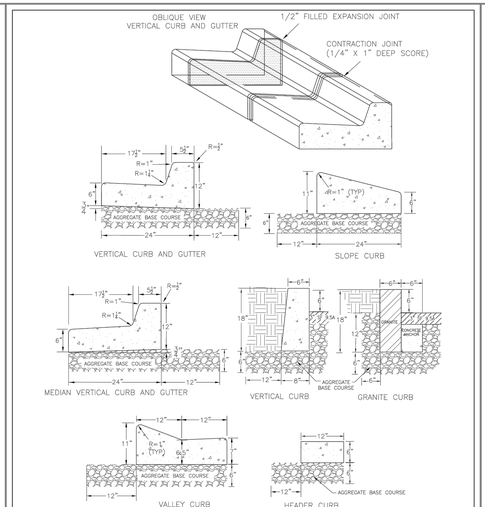
NOTES:

1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" – 3,000 PSI.
5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL
6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS
7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

STANDARD DETAIL	
DATE: OCTOBER, 2010	SIDEWALK
DRAWN: PB/JSR	
CHECKED: DEC	
SCALE NOT TO SCALE	

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON N.C. 28402
(910) 341-7807

SD 3-10



NOTES:

1. EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS
2. 50' MAX EXPANSION JOINT SPACING, 10' MAX CONTRACTION JOINT SPACING
3. MINIMUM INSTALLATION LENGTH IS 5 FT.
4. CONCRETE TO BE 3000 PSI MIN.
5. VERTICAL CURB AND GUTTER BASE CAN BE SLOPED 3/4" OR USE A FLAT BASE

STANDARD DETAIL	
DATE: AUGUST, 2011	CURBING
DRAWN: PB/JSR	
CHECKED: DEC	
SCALE NOT TO SCALE	

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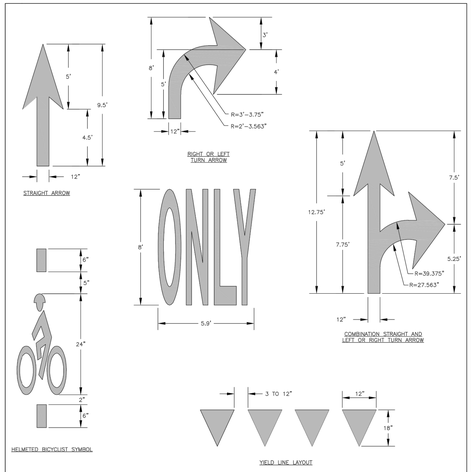
SD 3-11



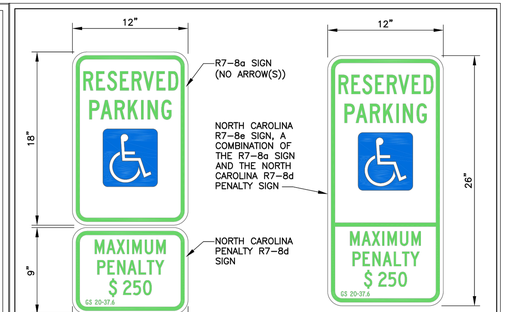
GENERAL NOTES

1—PAVEMENT MARKINGS, SYMBOLS AND DIMENSIONS SHALL BE DESIGNED PER MUTCD WITH APPROVAL FROM CITY TRAFFIC ENGINEERING, AND INSTALLED IN ACCORDANCE WITH NCDOT DIVISION 12 SPECIFICATIONS. SEE SD 11-01.

STANDARD DETAIL	
DATE: OCTOBER, 2012	GUIDELINES FOR PAVEMENT MARKINGS AND SYMBOLS
DRAWN BY JSR	
CHECKED BY BDR, P.E.	
SCALE NOT TO SCALE	

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 11-03



R7-8a and R7-8d Signage
Figure A1.1

EITHER THE COMBINATION OF THE R7-8a AND R7-8d SIGNS OR THE R7-8e SIGN CAN BE USED.

R7-8e Signage
Figure A1.2

WHERE VAN ACCESSIBLE PARKING IS PROVIDED, THE VAN ACCESSIBLE (R7-8P) SIGN SHALL BE MOUNTED BELOW THE OTHER ACCESSIBLE PARKING SIGNS. (2009 EDITION MUTCD SECTION 2B.47)

R7-8P Signage
Figure A1.3

FOR DESIGN OF ACCESSIBLE SIGNS, SEE THE FOLLOWING:

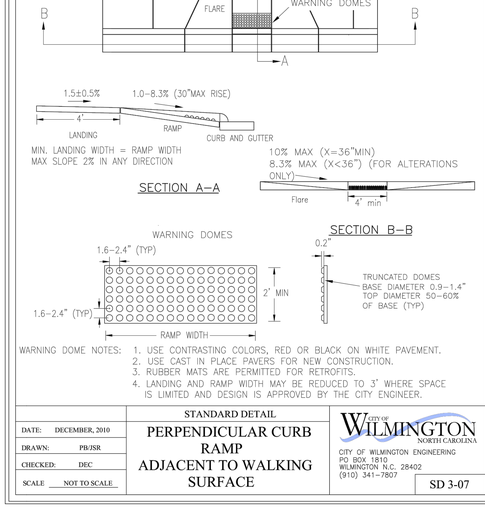
- 2009 MUTCD OR LATEST EDITION.
- 2004 EDITION OF THE STANDARD HIGHWAY SIGNS AND THE 2012 SUPPLEMENT OR LATEST EDITION.
- NORTH CAROLINA 2009 SUPPLEMENT TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR LATEST EDITION
- NCDOT DRAWING H-1_S FOR SIGNS SP00075, SP00076, AND SP00077.

DATE:	NOVEMBER 8, 2016
REVISED:	
DRAWN BY:	DALE THOMPSON
CHECKED BY:	RANDALL GLAZIER
SCALE:	NOT TO SCALE

Accessible Parking Signs

CITY OF WILMINGTON TRAFFIC ENGINEERING
P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7800

DETAIL NO.: TE7-01



WARNING DOME NOTES:

1. USE CONTRASTING COLORS, RED OR BLACK ON WHITE PAVEMENT.
2. USE CAST IN PLACE PAVERS FOR NEW CONSTRUCTION.
3. RUBBER MATS ARE PERMITTED FOR RETROFITS.
4. LANDING AND RAMP WIDTH MAY BE REDUCED TO 3' WHERE SPACE IS LIMITED AND DESIGN IS APPROVED BY THE CITY ENGINEER.

STANDARD DETAIL	
DATE: DECEMBER, 2010	PERPENDICULAR CURB RAMP ADJACENT TO WALKING SURFACE
DRAWN: PB/JSR	
CHECKED: DEC	
SCALE NOT TO SCALE	

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON N.C. 28402
(910) 341-7807

SD 3-07

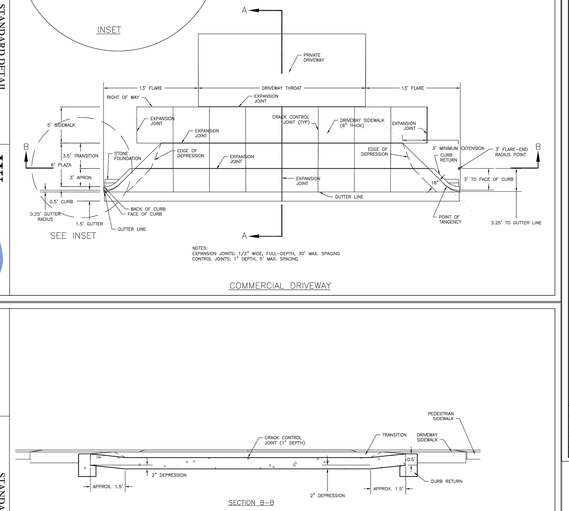
SCALE	NOT TO SCALE
CHECKED BY	D.E.C., P.E.
DRAWN BY	JSR
DATE:	FEB 14, 2017

STANDARD DETAIL

COMMERCIAL DRIVEWAY PLAN (VERTICAL CURB) 1 of 2

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON N.C. 28402
(910) 341-7807

SD 3-03.3



NOTES:
EXPANSION JOINTS: 1/2" WIDE, FULL-DEPTH, 30' MAX. SPACING
CONTROL JOINTS: 1" DEPTH, 5' MAX. SPACING

COMMERCIAL DRIVEWAY

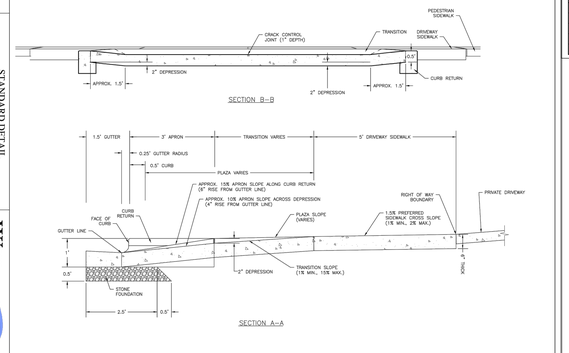
SCALE	NOT TO SCALE
CHECKED BY	D.E.C., P.E.
DRAWN BY	JSR
DATE:	FEB 14, 2017

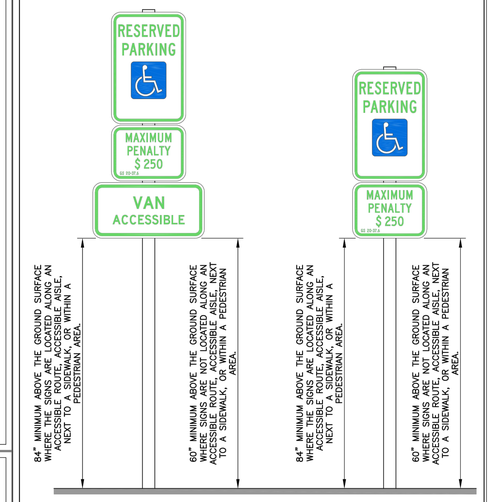
STANDARD DETAIL

COMMERCIAL DRIVEWAY SECTIONS (VERTICAL CURB) 2 of 2

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON N.C. 28402
(910) 341-7807

SD 3-03.4





Signage Height
Figure A2.1

DATE:	NOVEMBER 8, 2016
REVISED:	
DRAWN BY:	DALE THOMPSON
CHECKED BY:	RANDALL GLAZIER
SCALE:	NOT TO SCALE

Accessible Parking Signs
Mounting Configuration
and
Mounting Heights

CITY OF WILMINGTON TRAFFIC ENGINEERING
P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7800

DETAIL NO.: TE7-02

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1815 LAURENE E. DICKSON

FOR REVIEW ONLY, NOT FOR CONSTRUCTION

NORTH CAROLINA BOARD OF EXAMINERS FOR ENGINEERING AND SURVEYING C - 685 TRANSYSTEMS CORPORATION

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NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

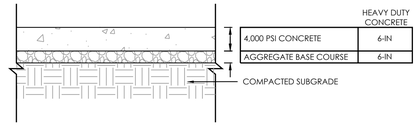
PERMIT SET

SITE DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

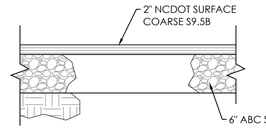
CS500

10/28/2022 3:36 PM X:\2021\SE21 280.00 MJ Clinic Greenfield SI\LD\CAD\CDs\CS500.dwg



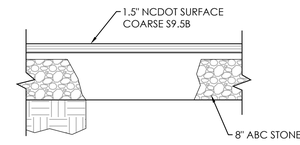
NOTES:
1. THE FINAL PAVEMENT DESIGN WILL BE BASED ON THE GEOTECHNICAL ENGINEER'S REPORT.
2. CONCRETE SHALL BE DESIGNED TO ACHIEVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. PAVEMENT DESIGN TO BE PROVIDED BY GEOTECHNICAL CONSULTANT. CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER FOR FINAL PAVEMENT THICKNESSES, PROOFROLLING, COMPACTION, & TESTING REQUIREMENTS.

HEAVY DUTY CONCRETE SECTION — 1
SCALE: NTS



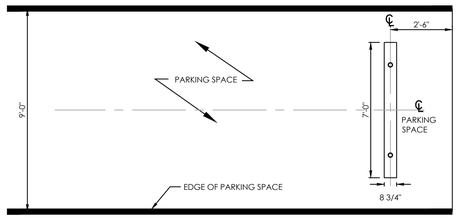
NOTE:
PAVEMENT SECTION MAY VARY DEPENDING UPON FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE W/ OWNER & ENGINEER IF FIELD CHANGES ARE NEEDED.

STANDARD ASPHALT PAVING DETAIL — 2
SCALE: NTS

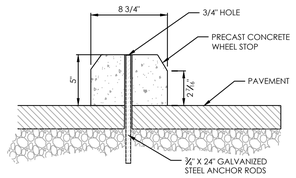


NOTE:
PAVEMENT SECTION MAY VARY DEPENDING UPON FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE W/ OWNER & ENGINEER IF FIELD CHANGES ARE NEEDED.

HEAVY DUTY ASPHALT PAVING DETAIL — 3
SCALE: NTS

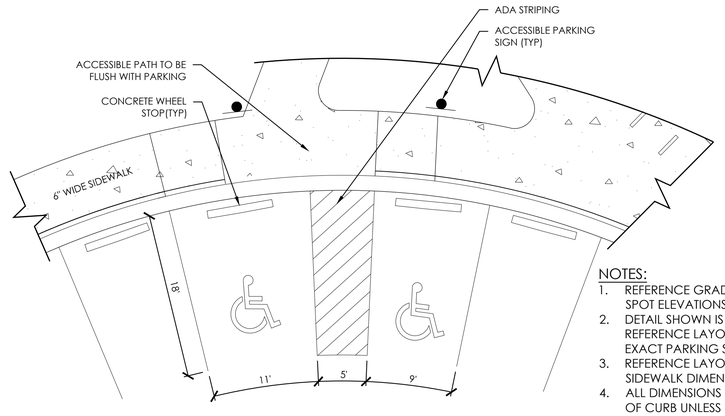


90° PARKING PLAN VIEW



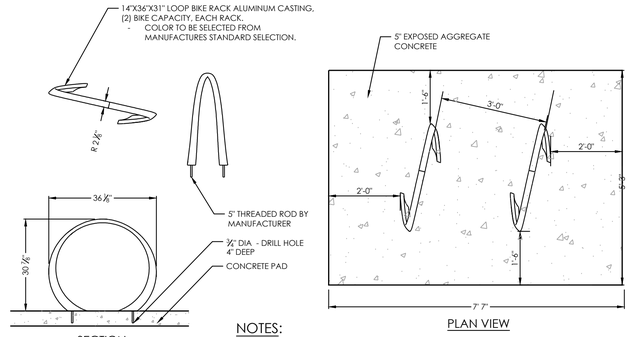
SECTION VIEW

CONCRETE WHEEL STOP — 4
SCALE: NTS



NOTES:
1. REFERENCE GRADING PLAN FOR SPOT ELEVATIONS.
2. DETAIL SHOWN IS TYPICAL. REFERENCE LAYOUT PLAN FOR EXACT PARKING SPACE LAYOUT.
3. REFERENCE LAYOUT PLAN FOR SIDEWALK DIMENSIONS.
4. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.

ACCESSIBLE PARKING LAYOUT — 5
SCALE: NTS

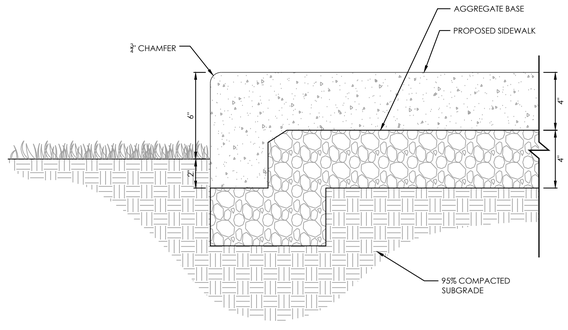


SECTION

PLAN VIEW

NOTES:
1. THREAD ANCHOR RODS INTO BIKE RACK.
2. SET UNIT IN POSITION AND MARK HOLE LOCATION.
3. MOVE UNIT. DRILL HOLES TO 4" DEPTH, SEE MANUFACTURERS INSTALLATION GUIDE.
4. CLEAR HOLES OF DEBRIS USING COMPRESSED AIR AND WIRE BRUSH.
5. TEST FIT UNIT IN POSITION TO BE SURE THREADED RODS ARE NOT RESTING ON THE DRILLED HOLES.
6. FILL HOLES WITH RECOMMENDED AMOUNT OF ANCHORING ADHESIVE/EPOXY.
7. SET UNIT IN POSITION.
8. WIPE AWAY EXCESS EPOXY BEFORE IT CURES.

BIKE RACK — 6
SCALE: NTS



TURNDOWN SIDEWALK — 7
SCALE: NTS

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

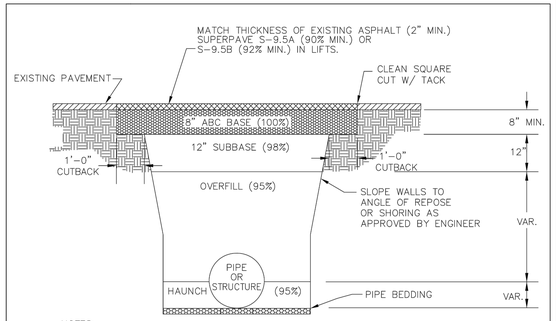
PERMIT SET

SITE DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CS501

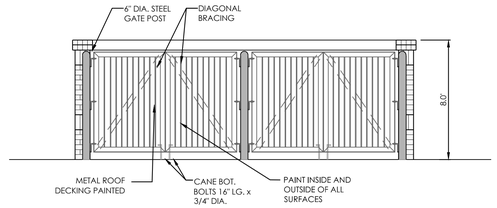
10/28/2022 3:57 PM K:\2021\SEP\21-285.00 MJ Clinic Greenfield SN\LD\CAD\CDs\CS501.dwg



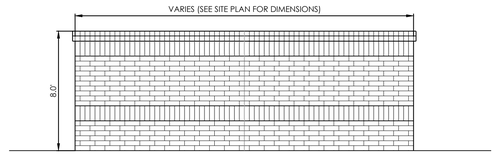
NOTES:

1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
3. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
4. SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
6. COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS; AND ASTM D-698-C FOR ABC STONE; AND BY NUCLEAR GAUGE OR CORE SAMPLE FOR ASPHALT.
7. CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

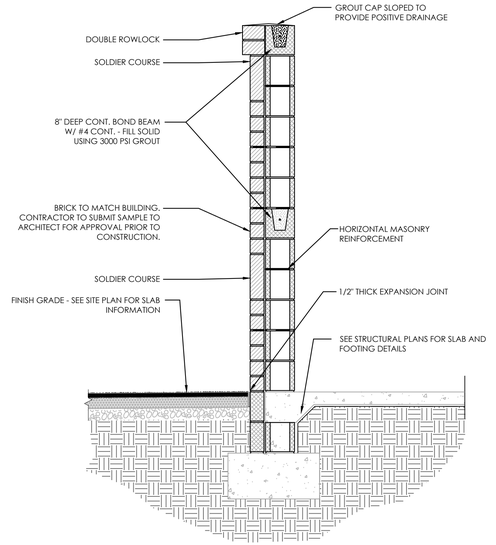
DATE: MAY, 2013	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	PAVEMENT REPAIRS- UTILITY CUTS	CITY OF WILMINGTON ENGINEERING OFFICE 212 OPERATIONS CENTER DRIVE WILMINGTON N.C. 28412 (910) 341-7807
CHECKED BY D.E.C., P.E.		
SCALE NOT TO SCALE		SD 1-05



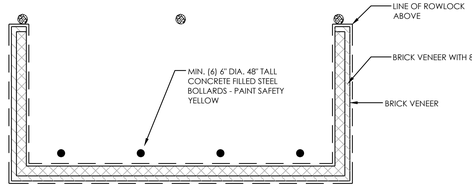
TYP. DUMPSTER SCREEN ELEVATION
NOT TO SCALE



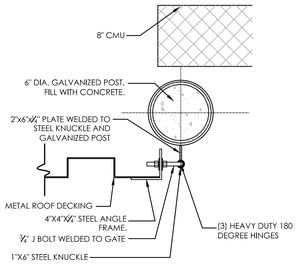
TYP. DUMPSTER SCREEN ELEVATION
NOT TO SCALE



DUMPSTER SCREEN SECTION
NOT TO SCALE

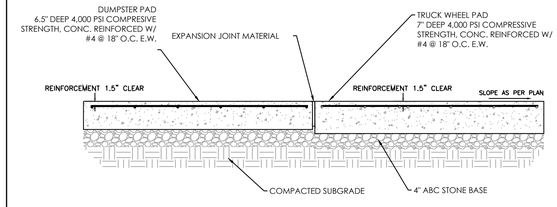


PLAN AT DUMPSTER ENCLOSURE
NOT TO SCALE

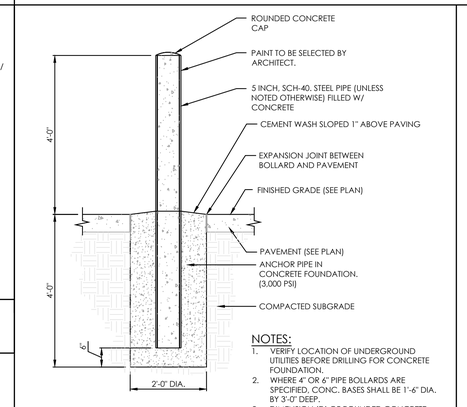


DUMPSTER ENCLOSURE GATE DETAIL
NOT TO SCALE

DUMPSTER ENCLOSURE DETAIL — SCALE: NTS — 3



DUMPSTER PAD DETAIL — SCALE: NTS — 1



NOTES:

1. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING FOR CONCRETE FOUNDATION.
2. WHERE 4" OR 6" PIPE BOLLARDS ARE SPECIFIED, CONC. BASES SHALL BE 1'-6" DIA. BY 3'-0" DEEP.
3. DIMENSION (D) OF ROUNDED CONCRETE CAP SHALL BE 1/4 PIPE DIAMETER.
4. PAINT "BROWN" WHEN LOCATED IN PLANTER.
5. PROVIDE REMOVABLE PIPE BOLLARDS AT EQUIPMENT ACCESS PANELS, AS REQUIRED.

EXTERIOR PIPE BOLLARD — SCALE: NTS — 2

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

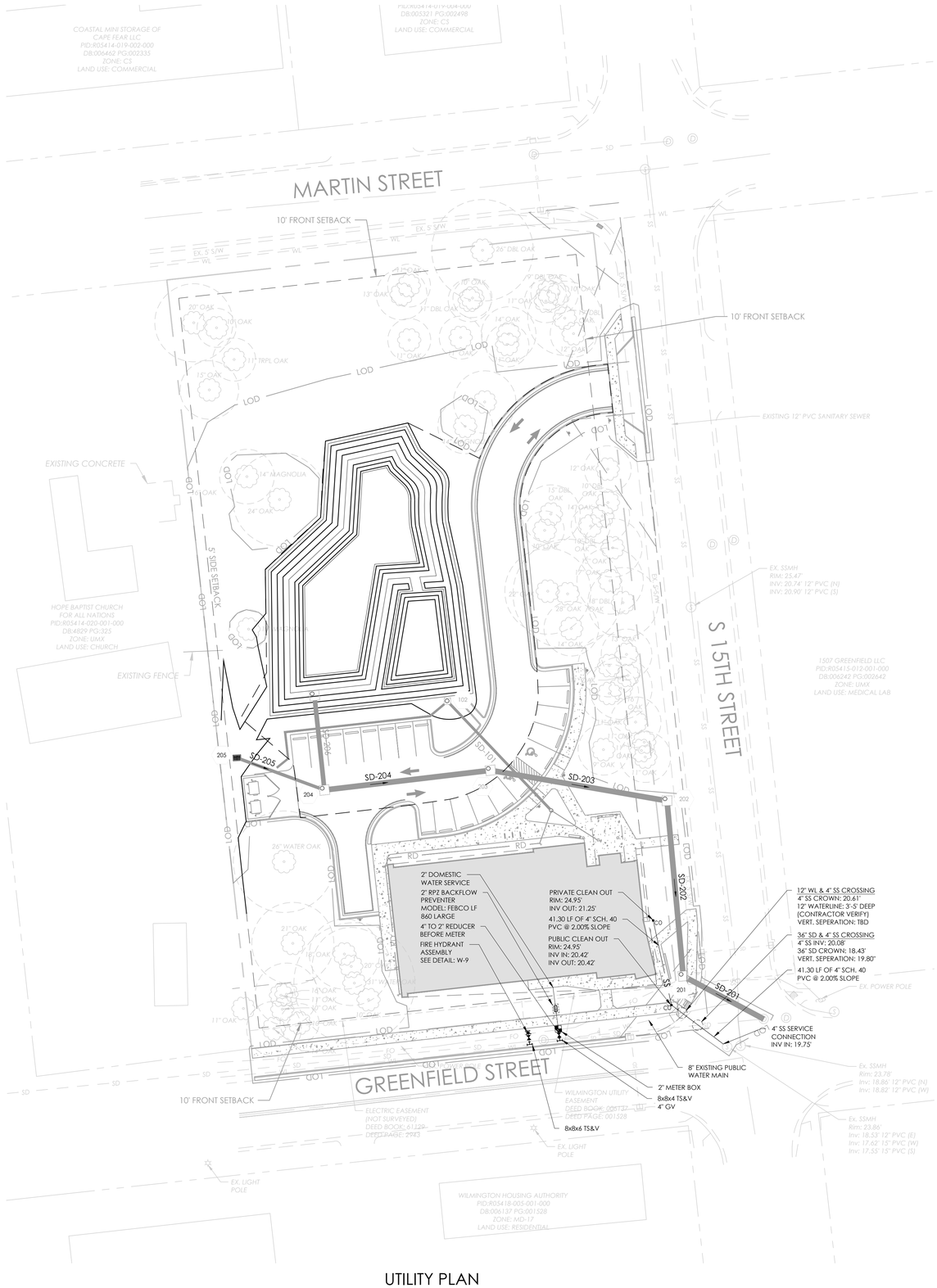
PERMIT SET

SITE DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CS502

10/28/2022 3:37 PM X:\2021\SE21.285.00 MJ Clinic Greenfield $\LD\CAD\CDs\CS502.dwg



UTILITY PLAN

Scale: 1" = 30'

UTILITY NOTES

1. BEFORE YOU DIG, STOP. CALL THE NC ONE-CALL CENTER AT 1-800-632-4949. IT'S THE LAW. EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES BEFORE STARTING CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @ 1-800-632-4949) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.
2. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND BACKFLOW PREVENTER.
3. ANY UTILITY CONSTRUCTION SHALL CONFORM TO CFPUA STANDARDS & SPECIFICATIONS.
4. CONTRACTOR TO CONTACT UTILITY COMPANIES TO RELOCATE ANY EXISTING UTILITY POLES OR DISTRIBUTION MAINS. ALL EXISTING UTILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE APPLICANT. RECOMMEND THAT CONTRACTOR INVESTIGATES ALL POTENTIALLY IMPACTED UTILITIES IMMEDIATELY UPON BEGINNING PROJECT, AND NOTIFIES IMPACTED UTILITY COMPANIES AS SOON AS IT IS DETERMINED THAT RELOCATIONS ARE REQUIRED.
5. BACKFLOW PREVENTER PERMIT REQUIRED FOR PROJECT. BACKFLOW PREVENTER INSTALLER MUST CONTACT CFPUA CROSS-CONNECTION CONTROL, DEPARTMENT OF WATER MANAGEMENT AT 910-332-6558 TO OBTAIN PERMIT AND INSTALLATION REQUIREMENTS PRIOR TO INITIATING WORK.
6. ALL FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS MUST BE PROVIDED WITH 5" DIAMETER STORZ CONNECTIONS.
7. FIRE DEPARTMENT CONNECTIONS MUST BE ORIENTED 45° TOWARD GRADE.
8. PROVIDE FIRE PLANS EXAMINER ONE COPY OF UTILITY CONSTRUCTION DRAWINGS SHOWING UNDERGROUND PIPING LAYOUT AND ALL FIRE APPURTENANCES. PERMIT FOR INSTALLATION OF PRIVATE FIRE HYDRANT(S) MUST BE ISSUED BY FIRE PLANS EXAMINER PRIOR TO INSTALLATION OF SAID HYDRANT(S).
9. FIRE HYDRANTS SHALL BE NO MORE THAN 300' FROM A BUILDING OR HOUSE ALONG AN APPROVED APPARATUS ACCESS ROAD, AS MEASURED BY AN APPROVED ROUTE AROUND THE BUILDING OR HOUSE. (ENFORCED AT TIME OF BUILDING PLAN SUBMITTAL)
10. FOR FIRE APPARATUS LOCATIONS, 150 FEET TO ALL PORTIONS OF THE EXTERIOR WALL OF THE FIRST FLOOR OF THE BUILDING FROM THE APPARATUS ROAD SURFACE, IS REQUIRED PER THE CURRENT NCFPC.
11. APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT 80,000 LBS., WITH A POINT LOAD OF 75 PSI, AND SHALL BE SURFACED TO PROVIDE ALL WEATHER DRIVING CAPABILITIES, AS REQUIRED BY THE CURRENT NCFPC. DESIGN MUST BE SEALED BY AN ENGINEER SHOWING CALCULATIONS AND ROAD CONSTRUCTION DETAILS.
12. FIRE FLOW ANALYSIS MUST BE PROVIDED AT TIME OF BUILDING PERMITS PER THE CURRENT NCFPC. THIS IS REQUIRED SO THAT VERIFICATION OF THE MINIMUM FIRE FLOW DOES EXIST FROM THE EXISTING/NEW HYDRANTS FOR THE NEW BUILDING TO SUPPLY THE FIREFIGHTING EFFORTS.
13. LANDSCAPING AND HARDSCAPING LAYOUT MUST BE ARRANGED TO ALLOW CLEAR VISIBILITY OF ALL FIRE EQUIPMENT UPON APPROACH, WITH READY ACCESS PROVIDED THERETO.
14. ABOVE-GROUND UTILITIES TO BE SCREENED.
15. A UTILITY MAINLINE CONSTRUCTION PERMIT IS REQUIRED PRIOR TO INSTALLATION OF EACH UTILITY. ALL UTILITIES SHALL SUBMIT PLAN DRAWINGS AND APPLICATIONS TO THE CITY ENGINEERING DIVISION.
16. SANITARY SEWER SERVICES SHALL BE 1.0% MINIMUM SLOPE.

CITY OF WILMINGTON NOTES

1. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
3. A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
4. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
5. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE FDC'S OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL ALWAYS BE MAINTAINED AROUND THE CIRCUMFERENCE OF HYDRANTS AND FDC'S.
6. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
7. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0696.
8. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL MULTI-STORY COMMERCIAL BUILDINGS AND ALL SINGLE-STORY COMMERCIAL BUILDINGS EXCEEDING 7,500 SQ/FT THAT DEMONSTATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIRMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
9. ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM, MUST BE ELECTRICALLY SUPERVISED.
10. FIRE HYDRANTS TO BE INSTALLED PER CITY OF WILMINGTON ORDINANCE AND CFPUA STANDARDS.

30' 15' 0 30'

SCALE: 1" = 30'

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

neighboring concepts

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028948 DANIEL MILLER

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TRANSYSTEMS CORPORATION CORPORATE SEAL F-0453 N.C.

811 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

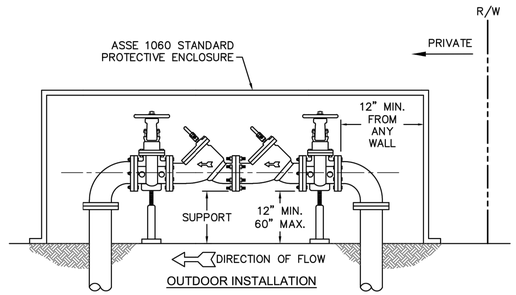
PERMIT SET

UTILITY PLAN

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

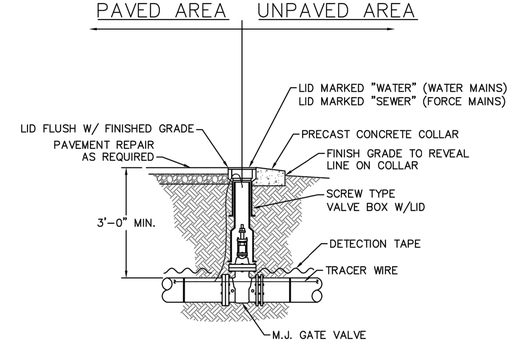
CU100

10/28/2022 3:37 PM K:\2021\SEP_285.00 MJ Clinic Greenfield SHUD_CAD_CDs\CU100.dwg



NOTES:
1. MUST BE MIN. 36" AWAY FROM ANY ELECTRICAL PANEL.
2. VALVE REQUIRED DOWNSTREAM OF BACKFLOW ASSEMBLY.
3. VERTICAL INSTALLATION SHALL BE DESIGNED AND SUBMITTED TO CFPUA EMD FOR APPROVAL.
4. LOCATE AS CLOSE TO THE RIGHT-OF-WAY AS POSSIBLE.
5. INDOOR INSTALLATIONS MUST BE APPROVED BY CFPUA.
6. MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910-332-6558 OR VISIT WWW.CFPUA.ORG/COMMUNITYCOMPLIANCE AND COMPLETE THE ONLINE FORM.
7. ONLY IN-LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

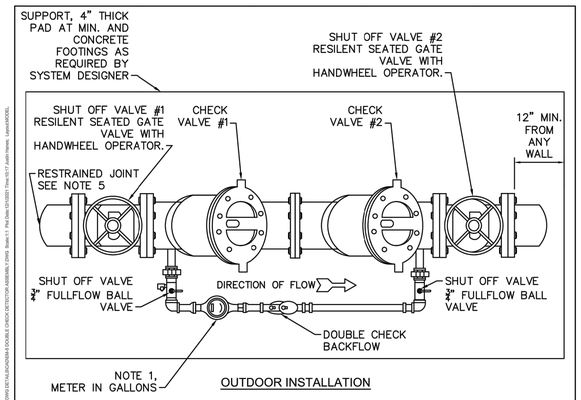
DETAIL:		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO:
DOUBLE CHECK VALVE ASSEMBLY			**EM-2**
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -



NOTES:

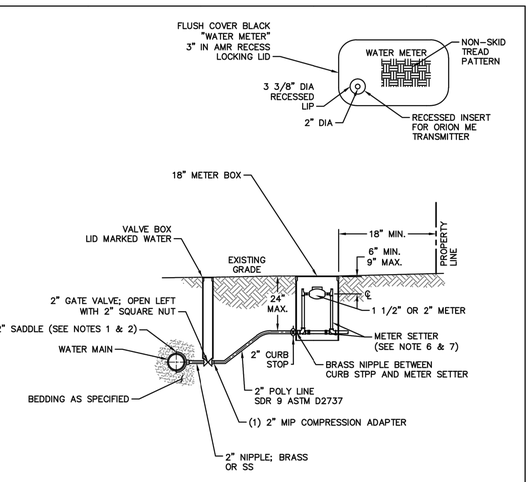
1. TRACER WIRE SHALL PENETRATE VALVE BOX THROUGH DRILLED HOLE APPROX. 6" BELOW GRADE WITH MINIMUM 2-FEET EXTRA LENGTH COILED IN THE VALVE BOX. SEE WS-6.

DETAIL:		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO:
VALVE DETAIL			**WS-5**
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -



NOTES:
1. FIRE SERVICE BACKFLOW ASSEMBLIES MUST BE CFPUA APPROVED.
2. ABOVE GROUND DOUBLE CHECK DETECTOR ASSEMBLIES (DCDA) PER CFPUA STANDARDS.
3. 4"-10" DCDA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S).
4. OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE PER CFPUA STANDARDS.
5. MAIN LINE 3" BRASS, K-COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE FLANGED OR APPROVED EQUAL.
6. CFPUA APPROVED 3" – 10" DCDA INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
7. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
8. MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910-332-6558 OR VISIT WWW.CFPUA.ORG/COMMUNITYCOMPLIANCE AND COMPLETE THE ONLINE FORM.
9. ONLY IN-LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

DETAIL:		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO:
FIRE SERVICE DOUBLE CHECK DETECTOR ASSEMBLY			**EM-5**
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -



NOTES:
1. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE THE RIGHT-OF-WAY LINE.
2. SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY.
3. METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS.
4. NON-TRAFFIC METER BOXES SHALL BE PER CFPUA STANDARD MATERIAL.
5. 3" CLEAN FILL REQUIRED ALL AROUND 2" POLY SERVICE LINE.
6. 1 1/2" METER – NL METER SETTER SHALL BE PER CFPUA STANDARD MATERIAL.
7. 2" METER – NL METER SETTER SHALL BE PER CFPUA STANDARD MATERIAL.
8. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNERS.
9. SERVICE PIPING AND METER SETTER TO BE CENTERED IN THE METER BOX.

DETAIL:		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO:
COMMERCIAL WATER SERVICE - 1 1/2 OR 2-INCH METERS			**W-3**
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

1. ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS.
2. SEWER MANHOLE INSERTS REQUIRED AT ALL MANHOLES. STAINLESS STEEL MANHOLE INSERTS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
3. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE.
4. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
5. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
6. NO FLEXIBLE COUPLINGS SHALL BE USED.
7. ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316.
8. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.
9. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
10. UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
11. A MINIMUM OF 10' OF MAIN LINE, 5' UPSTREAM AND 5' DOWNSTREAM SHALL BE REPLACED FOR NEW SEWER SERVICE CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.
12. A MINIMUM OF 20' OF MAIN LINE, 10' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW CUT IN MANHOLES ON EXISTING CLAY GRAVITY SEWER MAINS
13. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGE OF MANHOLE CORE HOLES AND MANHOLE BARREL JOINTS. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGES OF CORE HOLES. CORING THE MANHOLE CONE IS NOT PERMITTED
14. WATER MAIN AND FORCE MAIN PIPE INSTALLED BY OPEN CUT SHALL BE BURIED AT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET BELOW FINISHED GRADE. DEPTHS GREATER THAN FIVE (5) FEET MUST BE APPROVED BY CFPUA.
15. ALL MANHOLE MAIN LINE AND SERVICE PIPING TO BE INSTALLED AT A MINIMUM OF CROWN TO CROWN OF THE LARGEST DIAMETER PIPE.

DETAIL:		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO:
STANDARD NOTES (REQUIRED ON ALL PLAN AND PROFILE SHEETS)			**WS-14**
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -

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811 Know what's below. Call before you dig.
3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

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ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

Michael Jordan Family Medical Clinic - Wilmington

No.	Description	Date

80% CONSTRUCTION DOCUMENTS

UTILITY DETAILS

ISSUE DATE 06/22/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CU500

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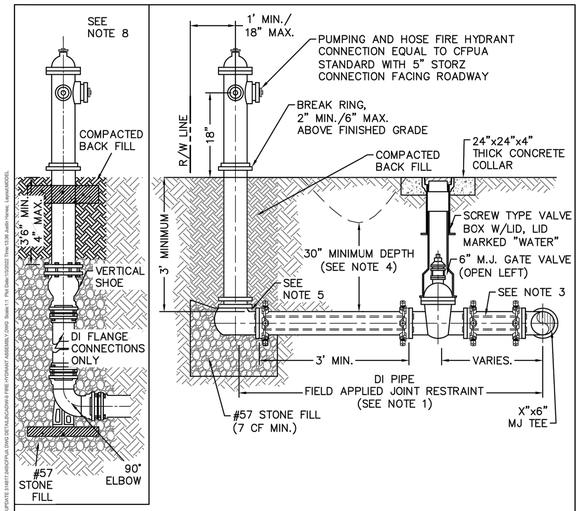
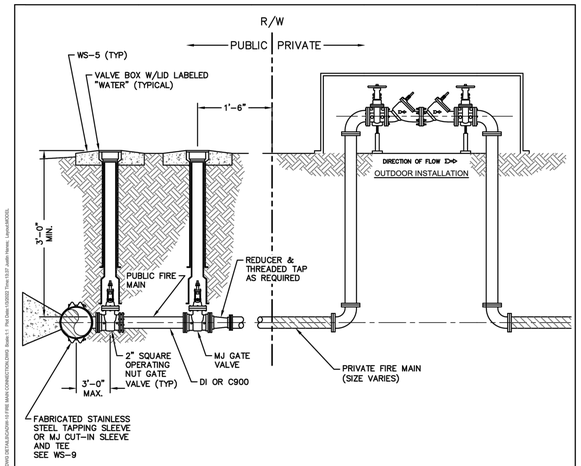


NOTES

1. JOINT RESTRAINT SYSTEMS SHALL BE WEDGE ACTION STYLE FOR DI.
2. WHEN HYDRANT LEGS REQUIRE FULL LENGTH PIPE SECTIONS, OVER BELL RESTRAINT SYSTEM SHALL HAVE 316 STAINLESS STEEL HARNESS AND FASTENERS.
3. CONTINUOUS 316 STAINLESS STEEL RODS (TEE TO VALVE AND VALVE TO HYDRANT) MAY BE USED WITH COR-BLUE MJ T-BOLT AND GASKET KITS, AS AN ALTERNATIVE.
4. HYDRANT AND VALVE SHALL BE PLACED OUTSIDE DITCH LIMITS.
5. WEEP HOLES OPEN AND UNBLOCKED TO DRAIN.
6. MJ TEE SHALL BE RESTRAINED ON EACH SIDE OF MAIN PLUS MAIN VALVES, FITTING, OR JOINTS WITHIN 10-FEET OF MJ TEE.
7. TRACING WIRE SHALL EXTEND ALONG HYDRANT LATERAL AND UP TO FINISHED GRADE WITH 2-FEET EXTENDED ABOVE THE BREAK RING OF HYDRANT.
8. HYDRANT TO UTILIZE A VERTICAL SHOE WHEN INSTALLED 5' IN DEPTH OR GREATER.

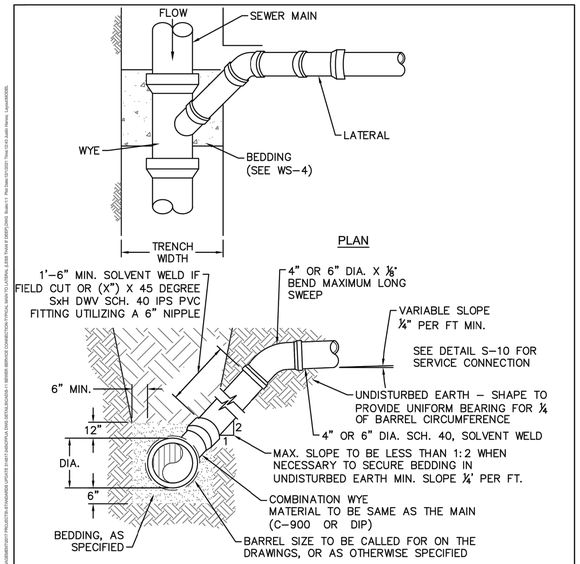
DETAIL: FIRE HYDRANT ASSEMBLY		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: W-9
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -



NOTES:

1. A GATE VALVE IS REQUIRED AT THE CFPUA FIRE MAIN TAP LOCATION.
2. WHEN THE FIRE MAIN IS FROM OPPOSITE SIDE OF NC-DOT ROAD OR CITY STREET, A SECOND VALVE IS REQUIRED 18" INSIDE PUBLIC R/W.
3. IF TAPPING VALVE IS LESS THAN 5-FEET FROM R/W THEN SECOND VALVE AT R/W IS NOT REQUIRED.

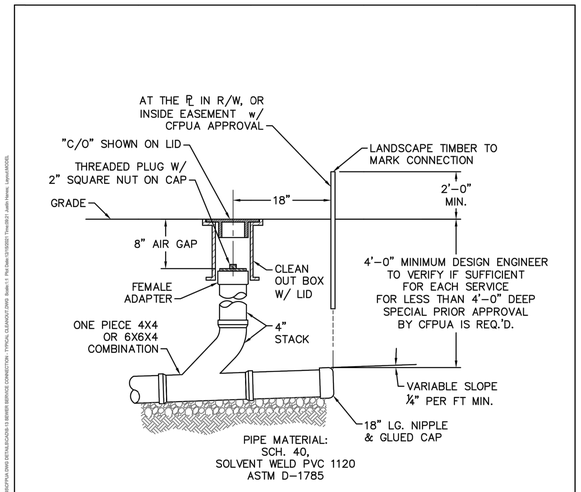
DETAIL: FIRE MAIN CONNECTION		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: W-10
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -



NOTES:

1. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
2. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.

DETAIL: SEWER SERVICE CONNECTION - MAIN to LATERAL (LESS THAN 8' DEEP)		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: S-11
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -



NOTES:

1. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
2. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.

DETAIL: SEWER SERVICE CONNECTION - TYPICAL CLEAN-OUT		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: S-13
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2022		SHEET NO: -

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NOTICE:
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ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

Michael Jordan Family Medical Clinic - Wilmington

No.	Description	Date

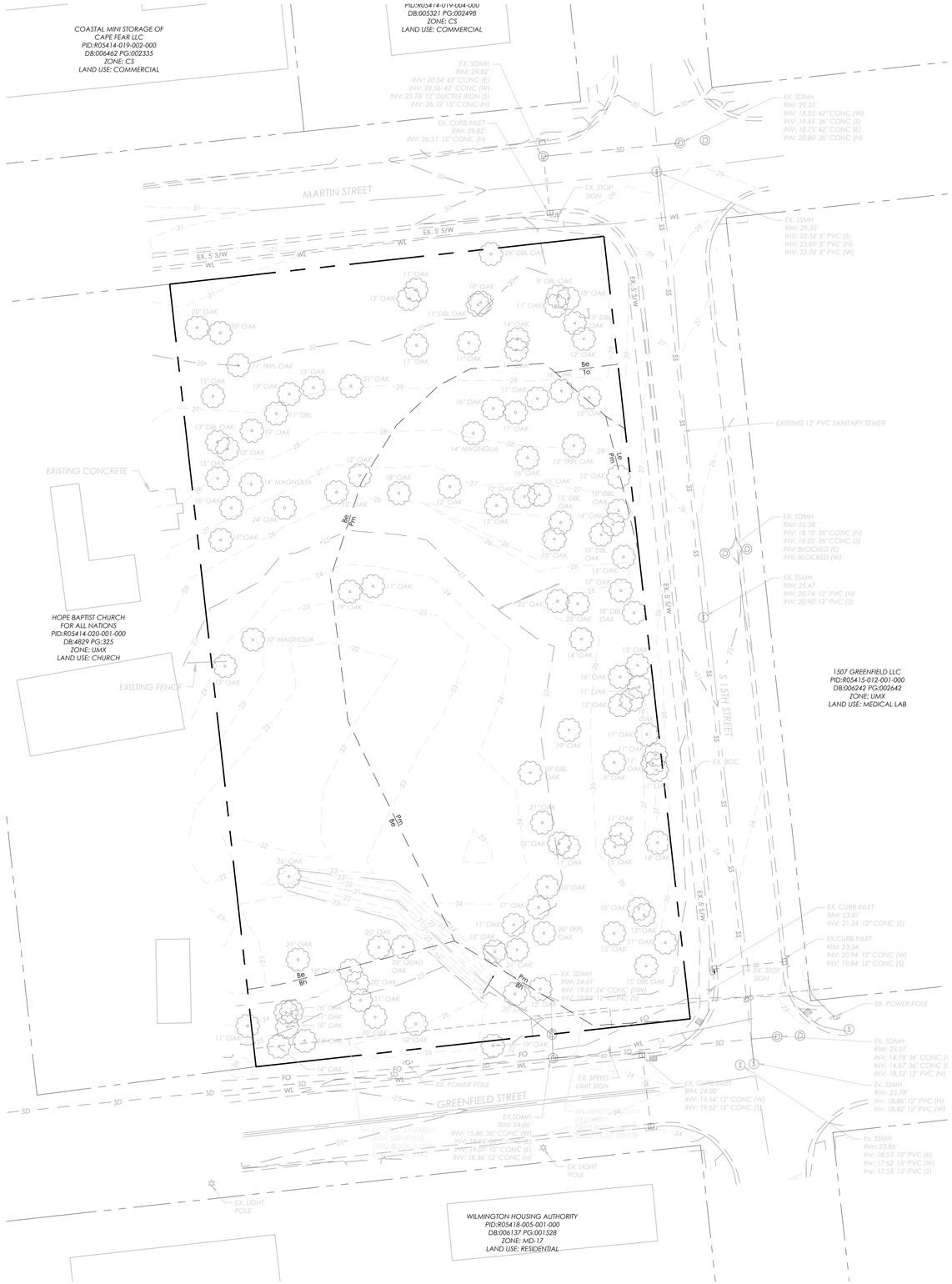
80% CONSTRUCTION DOCUMENTS

UTILITY DETAILS

ISSUE DATE 06/22/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CU501

6/17/2022 4:44 PM X:\2021\SE21.285.00 MJ Clinic Greenfield St\LD\CAD\CDs\CU501.dwg



EXISTING CONDITIONS PLAN

Scale: 1" = 30'

8/2/2022 4:52 PM K:\2021\SEPI.285.00 MJ Clinic Greenfield SH\LD\CAD\CDs\CV100.dwg

GENERAL EXISTING CONDITIONS NOTES

1. BOUNDARY, TOPOGRAPHIC, & UTILITY INFORMATION, EXCEPT AS NOTED, TAKEN FROM AN ELECTRONIC COPY OF A SURVEY PREPARED BY SEPI ENGINEERING & CONSTRUCTION, INC. DATED JULY, 19, 2021., DATUM NAD83/2011. EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING ANY WORK.
2. WETLANDS, ROCK OUTCROPPINGS, CEMETERIES, ETC. DO NOT EXIST ON THE SITE
3. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL EXISTING UTILITY LOCATIONS PRIOR TO COMMENCING ANY LAND DISTURBANCE. REPORT ANY CONFLICTS TO ENGINEER.
4. TREE SURVEY REPORT PROVIDED BY SEPI ENGINEERING & CONSTRUCTION, INC, REGISTERED FORESTER - NC, #xxx, xxxx ##, 2021.
5. COORDINATES SHOWN ARE GRID COORDINATES.
6. BASIS OF BEARINGS: NC STATE PLANE GRID COORDINATES, NAD83(1986) VERTICAL DATUM NAVD88.
7. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
8. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.
9. LINES NOT SURVEYED ARE SHOW AS BROKEN LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS PLAT.
10. SUBJECT PROPERTY IS NOT LOCATED WITHIN THE FLOOD HAZARD AREA ACCORDING TO THE FLOOD INSURANCE RATE MAP 3720313700K DATED 08/28/2018.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES BEFORE STARTING CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @ 1 -800-632-4949) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.
12. TO THE BEST OF OUR KNOWLEDGE, THERE IS NO PRESENCE OF THE FOLLOWING ON THE PROJECT SITE:
    - NON-ENCROACHMENT AREA / NON-ENCROACHMENT AREA FRINGE
    - FLOODWAY / FLOODWAY AREA FRINGE
    - STEEP SLOPES

SITE SOIL INVENTORY

Be	BAYMEADE FINE SAND, 1 TO 6 PERCENT SLOPES
Bh	BAYMEADE-URBAN LAND COMPLEX, 1 TO 6 PERCENT SLOPES
Le	LEON SAND
Pm	PAMLICO MUCK
To	TORHUNTA LOAMY FINE SAND

30' 15' 0 30'

SCALE: 1" = 30'

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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sepiinc.com

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N.C. CORPORATE SEAL C-2197

NORTH CAROLINA REGISTERED 1916 LAUREN E. DICKSON

NOT FOR CONSTRUCTION

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

FORMAL TRC REVIEW

EXISTING CONDITIONS

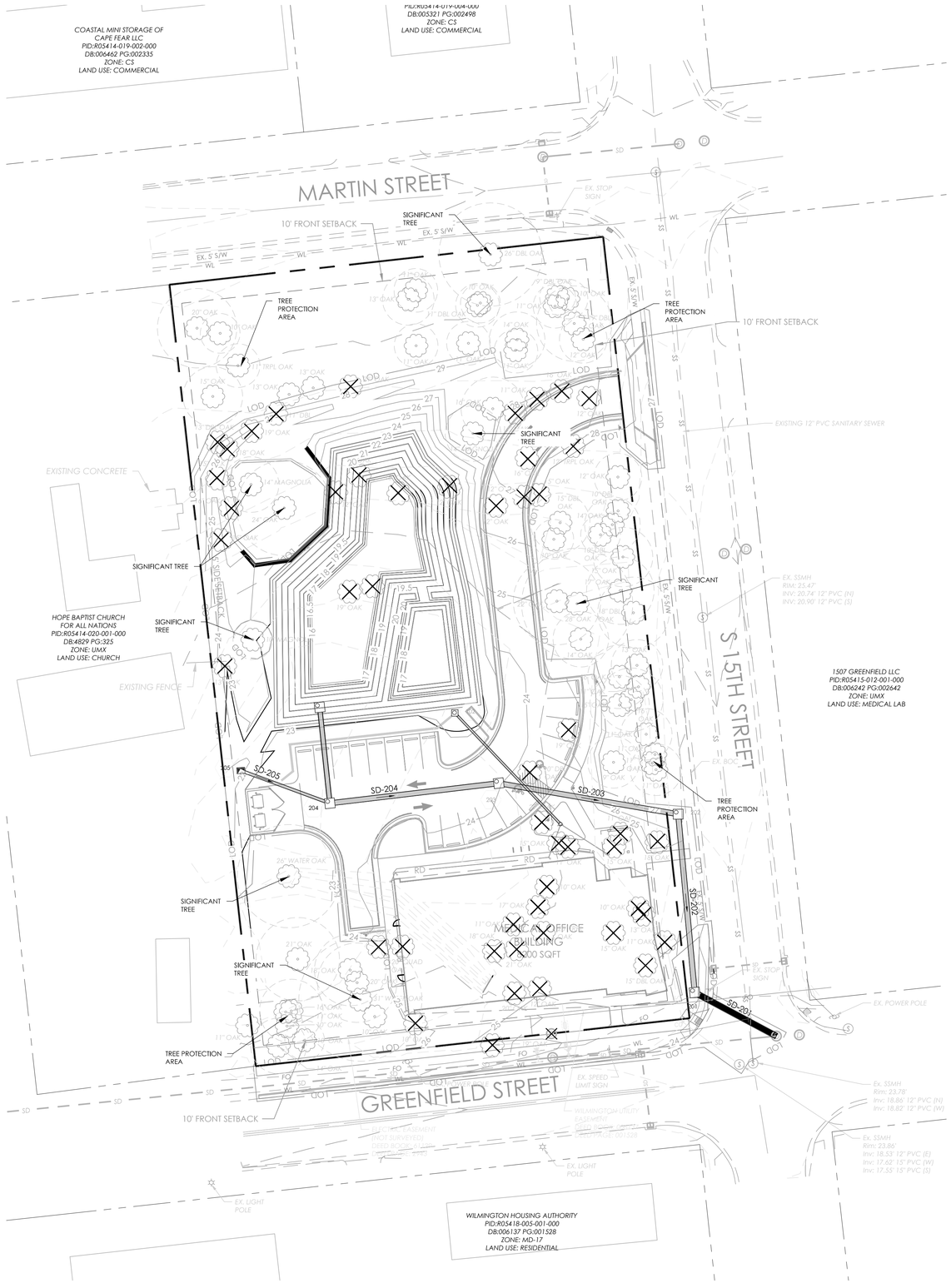
ISSUE DATE 08/03/2022

CHECKED L. DICKSON

SHEET BY J. ADRIATICO

PROJECT NUMBER 21-025

CV100



TREE INVENTORY PLAN

Scale: 1" = 30'

LEGEND	
	TREES TO BE DEMOLISHED
	TREES TO REMAIN
LOD	LIMITS OF DISTURBANCE

TREE DEMOLITION TABLE

SPECIES	SIZE/CALIPER	QUANTITY
REGULATED TREES WITHIN BUILDING FOOTPRINT		
OAK	10"	3
OAK	11"	4
OAK	12"	1
OAK	13"	1
OAK	15"	3
DOUBLE OAK	15"	1
OAK	17"	1
OAK	18"	2
OAK	20"	2
TRIPLE OAK	20"	1
QUAD OAK	20"	1
SUBTOTAL TREE DBH		272"
REGULATED TREES WITHIN SIDEWALKS / ADA ROUTES		
OAK	18"	1
OAK	19"	1
OAK	21"	1
SUBTOTAL TREE DBH		58"
REGULATED TREES WITHIN PARKING / DRIVEWAY		
DOUBLE OAK	10"	1
OAK	11"	2
OAK	12"	3
TRIPLE OAK	12"	1
OAK	15"	1
OAK	16"	2
OAK	19"	1
SUBTOTAL TREE DBH		146"
REGULATED TREES REMOVED FOR GRADING FOR SCM		
OAK	11"	2
OAK	12"	1
OAK	13"	1
DBL OAK	13"	1
OAK	15"	2
OAK	16"	1
OAK	18"	2
OAK	19"	2
OAK	21"	1
SUBTOTAL TREE DBH		201"
Total DBH Removed		677"

NOTES:

1. ALL TREES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF DISTURBANCE NECESSARY FOR ESSENTIAL SITE IMPROVEMENTS FOR THIS SITE.

SCALE: 1" = 30'

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1315 LAURENE E. DICKSON

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

TREE INVENTORY PLAN

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CV110

10/28/2022 3:35 PM X:\2021\SE21 280.00 MJ Clinic Greenfield SI\LD\CAD\Cds\CV110.dwg

DEMOLITION

KEY	DESCRIPTION
A	CURB AND GUTTER TO BE REMOVED TO LIMITS SHOWN
B	SIDEWALK TO BE REMOVED TO LIMITS SHOWN
C	TREE TO BE REMOVED IT IT'S ENTIRETY
D	TREE TO BE CUT AT GROUND LEVEL AND STUMP GROUND 6" BELOW SURFACE
E	WALL TO BE REMOVED IN IT'S ENTIRETY
F	STORM DRAIN PIPES TO BE CAPPED AND REMOVED PER CITY OF WILMINGTON REQUIREMENTS AFTER TEMPORARY DIVERSION DITCH #1 IS TIED INTO PROPOSED OUTLET PIPES
G	STORM DRAINAGE MANHOLE TO BE REMOVED IN IT'S ENTIRETY
H	EXISTING UTILITY POLE TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR RELOCATION.
I	EDGE OF PAVEMENT TO BE REMOVED FOR INSTALLATION OF CURB AND GUTTER
J	FENCE TO BE REMOVED TO PROPERTY BOUNDARY

DEMOLITION AND EROSION CONTROL NOTES

1. EROSION CONTROL MEASURES AND TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
2. MAINTENANCE OF TRAFFIC AND TRAFFIC CONTROL IS THE SOLE RESPONSIBILITY OF THE SITE CONTRACTOR. THESE PLANS ARE TO SERVE ONLY AS A GENERAL GUIDE AND IN NO WAY LIMITS THE SITE CONTRACTOR FROM MAINTAINING TRAFFIC CONTROL IN ACCORDANCE WITH NCDOT STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, OR AS DIRECTED BY THE LOCAL MUNICIPALITY.
3. BEFORE STARTING ANY CONSTRUCTION OF IMPROVEMENTS WITHIN ANY NCDOT STREET OR HIGHWAY RIGHT-OF-WAY, OBTAIN ALL PERMITS AND ENCROACHMENTS. CROSS CHECK SPECIAL PROVISIONS WITH PLANS. MAINTAIN A COPY OF ALL PERMITS ON SITE. CONTACT LOCAL DISTRICT ENGINEER _____ 24 HOURS BEFORE PLACING ANY CURB AND GUTTER WITHIN NCDOT RIGHT-OF-WAY.
4. CONTRACTOR TO ACQUIRE PROPER DEMOLITION PERMITS PRIOR TO REMOVAL OF EXISTING STRUCTURES/UTILITIES.
5. SITE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL AND TO INITIATE CLEAN-UP OF LITTER AND REFUSE GENERATED BY HIMSELF AND SUBCONTRACTORS. THE CLEAN-UP OF LITTER AND REFUSE SHALL BE DONE ON A REGULAR BASIS, AND SHALL INCLUDE INITIATING ACTION AND ASSUMING ANY COST IN REMEDYING THE SITUATION. ALL REFUSE AND DEBRIS SHALL BE DISPOSED OF LAWFULLY AT AN OFF-SITE LOCATION.

DEMOLITION LEGEND

- DEMOLITION EXTENTS
- PAVEMENT TO BE REMOVED
- TREE TO BE REMOVED

DEMOLITION PLAN

Scale: 1" = 30'

30' 15' 0 30'

SCALE: 1" = 30'

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

DEMOLITION PLAN

ISSUE DATE 10/28/2022

CHECKED L. DICKSON

SHEET BY J. ADRIATICO

PROJECT NUMBER 21-025

CX100

10/28/2022 3:35 PM X:\2021\SE21.285.00 MJ Clinic Greenfield SN\D\CAD\CDs\CX100.dwg

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SWITCHES		
LIGHT SWITCH:GENERAL PURPOSE	46"	$
DIMMER SWITCH	46"	$D
THREE-WAY SWITCH	46"	$3
FOUR-WAY SWITCH	46"	$4
KEYED SWITCH	46"	$K
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	$OS $VS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	$U
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS VS
PHOTO-CELL AS NOTED	AS NOTED	PC
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)		ER
POWER OUTLETS		
SIMPLEX RECEPTACLE	1'-6"	
DUPLEX RECEPTACLE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, OR AT 46" WHERE NO COUNTER IS PRESENT		
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		J , H
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	WP
ELECTRIC WATER COOLER/ BOTTLE FILLER RECEPTACLE: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET(S) BEHIND COOLER. PROVIDE MULTIPLE RECEPTACLES WHERE REQUIRED BY MANUFACTURER. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT(S) BEING PROVIDED FOR THE WATER COOLER/ BOTTLE FILLER FOR PROTECTION OF RECEPTACLE(S)		EWC
GROUND FAULT PROTECTED DUPLEX WITH SLASH THROUGH DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, OR AT 46" WHERE NO COUNTER IS PRESENT		

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
WALL MOUNT FIXTURE		
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM BATTERIES/ INVERTER(S)		
LIGHTING FIXTURE DESIGNATION		
FIXTURE SWITCH FIXTURE TYPE		
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND PHASE NEUTRAL
DISCONNECT SWITCH	5'-0"	
PUSHBUTTON STATION	46"	
FLEXIBLE CONDUIT		
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES. POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, NUTONE OR EQUAL	46"	DB
DOORBELL AUDIO/VISUAL STATION. PROVIDE PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OwNER/ARCHITECT, NUTONE OR EQUAL	7'-6"	DB
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		K
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
INDICATES EMERGENCY POWER		E,EM
SURGE PROTECTION DEVICE		SPD
GENERATOR ANNUNCIATOR PANEL - SEE SPECIFICATIONS	46"	GEN-A
CONDUIT UP		
CONDUIT DOWN		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		EM
SPECIAL OUTLETS		
FLOORBOX, COMBINATION POWER AND LOW VOLTAGE, RACO #6255 WITH #6249 COVER OR APPROVED EQUAL. COORDINATE FINISH WITH ARCHITECT.	FLOOR	
FIRE RATED POKE-THRU FLOOR BOX. COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES, DEVICES AS SCHEDULED	FLOOR	
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION		AV
SURFACE WIRE-MOLD (WIREMOLD #3000 SERIES; DEVICES SHALL BE MOUNTED EVERY 12" OR APPROVED EQUAL)		
TELEVISION		
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE. COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T
SECURITY ACCESS CONTROL		
DOOR ALARM/POSITION SWITCH	DOOR FRAME	DA
MAGNETIC LOCK(S)	ABV DOOR	ML
DOOR POWER SUPPLY	ABV CLG	DS
DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	ABV DOOR	DP
ELECTRIC STRIKE	AT LATCH	ES
AUTOMATIC DOOR CONNECTION (MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS)	CLG	AD
DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	PP
DOOR RELEASE KEYSWITCH STATION	6'-0"	KS
DOOR RELEASE KEYPAD STATION	46"	KP
DOOR RELEASE CARD READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	CR
SAME AS "CR" EXCEPT MULLION MOUNT	46"	CR M
MOTION SENSOR DOOR CONTROL	CEIL.	MS
PUSH-TO-EXIT BUTTON	46"	PE
ACCESS CONTROL POWER SUPPLIES/CONTROL PANEL	46"	SEC-A
REMOTE DOOR RELEASE		RR
DATA / VOICE		
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS	1'-6"	#D
VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS	1'-6"	#V
COMBINATION OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	#D/#V
RF TRACKER ANTENNA	CLG	
TELEMETRY ANTENNA	CLG	
OUTLET (VOICE ONLY) : PAYPHONE TYPE	AS REQ'D.	PAY
MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF
TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT. #3/0 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 30-PT GROUND BAR AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)		
WIRELESS ACCESS POINT WITH PROVISIONS FOR (1 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE FOR APPLICATION SHOWN. COORDINATE WITH OWNER MOUNTING HEIGHT. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS. WAP'S ARE OWNER-FURNISHED, OWNER-INSTALLED. NEMA 3R - DEVICE/ ENCLOSURE RATED FOR EXTERIOR APPLICATION(S).		WAP

SHEET LIST

Sheet Number	Sheet Name
E001	ELECTRICAL LEGEND & GENERAL NOTES
E101	ELECTRICAL FIRST FLOOR PLAN - LIGHTING
E201	ELECTRICAL FIRST FLOOR PLAN - POWER & SYSTEMS
E301	ELECTRICAL FIRST FLOOR PLAN - MECHANICAL SYSTEMS
E302	ELECTRICAL ROOF PLAN - MECHANICAL SYSTEMS
E500	ELECTRICAL RISER DIAGRAM & SCHEDULES
E501	ELECTRICAL PANEL SCHEDULES
E600	ELECTRICAL DETAILS
E601	ELECTRICAL DETAILS

GENERAL NOTES (LEGEND):

A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.

B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.

C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC. IN ADDITION, OBSERVE ALL APPLICABLE RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT FROM CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.

D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

F. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.

G. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.

H. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.

I. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.

J. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.

K. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

L. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND FURNITURE, CASEWORK, AND/OR EQUIPMENT. ADDITIONAL OUTLETS MAY BE SHOWN ON ARCHITECTURAL DRAWINGS AND SHALL BE INCLUDED IN THE CONTRACT.

M. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.

N. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.

O. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.

P. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.

Q. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER

R. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.

S. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.

T. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.

U. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.

V. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.

W. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

X. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.

Y. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.

Z. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).

AA. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.

BB. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.

CC. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.

DD. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

EE. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.

FF. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.

GG. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

HH. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

II. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.

JJ. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.

KK. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.

LL. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).

MM. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

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NORTH CAROLINA REGISTERED PROFESSIONAL SEAL 038491 ENGINEER DANIEL A. BOLAND

221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

CONSTRUCTION DOCUMENTS

ELECTRICAL LEGEND & GENERAL NOTES

ISSUE DATE 08/11/2022
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-025

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8/10/2022 4:58:09 PM
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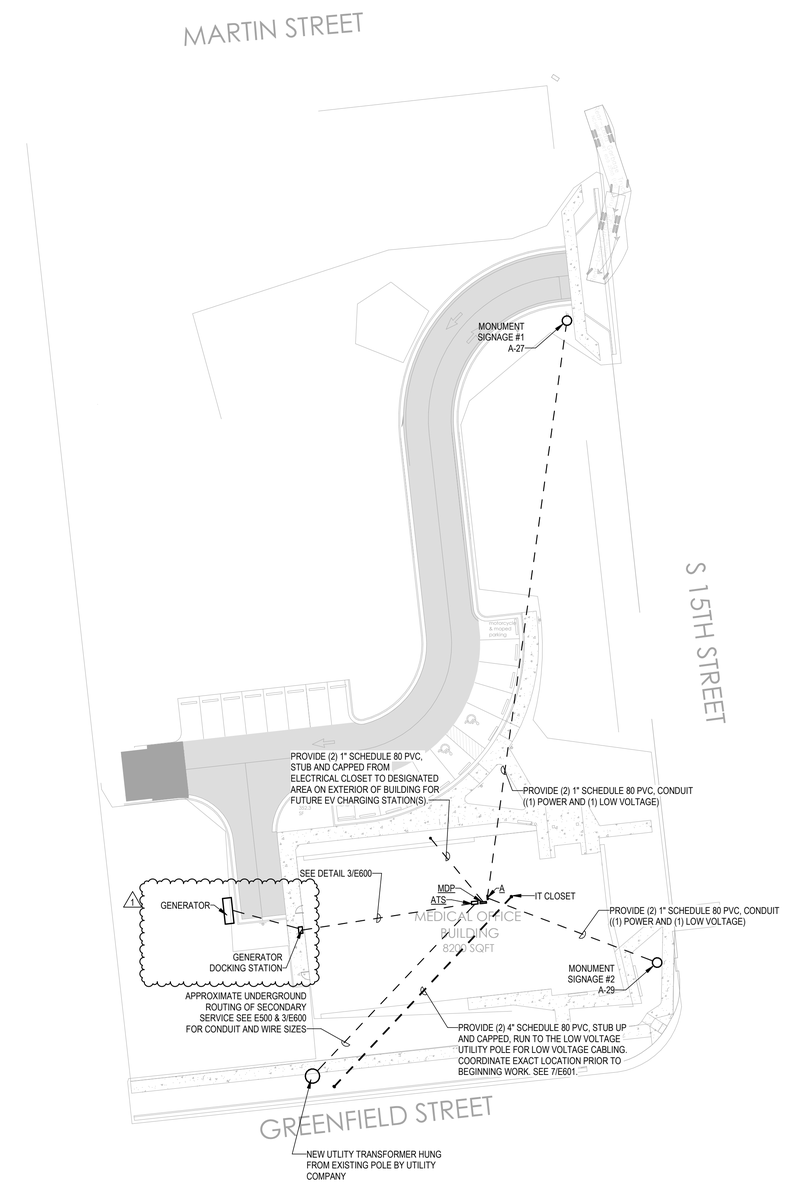

1 SITE PLAN

SCALE: 1" = 30'-0"

GENERAL NOTES (SITE):

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.

C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.

D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS, EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.

G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILTY STANDARDS SHALL TAKE PRECEDENCE.

H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

I. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.

J. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.

K. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

221.064 10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

CONSTRUCTION DOCUMENTS

ELECTRICAL SITE PLAN

ISSUE DATE 08/11/2022
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-025

E100

10/28/2022 4:01:39 PM
BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt

KEY NOTES:

1. BUILDING MOUNTED EXTERIOR LIGHTING FIXTURES AND ILLUMINATED SITE SIGNAGE SHALL BE CONTROLLED BY PHOTOCELL WITH DIGITAL TIMERCLOCK OVERRIDE. PHOTOCELL SHALL BE LOCATED ON THE ROOF OF THE BUILDING, FACING NORTH. THE UNIT SHALL HAVE AN UNRESTRICTED VIEW OF THE SKYLINE AND SHALL NOT FACE ANY NIGHTTIME LIGHT SOURCES. SEE DETAIL 8/E600.
2. FIXTURE SHALL BE WIRED THRU INVERTER "INV1" (DUAL-LITE #LG125-AO OR APPROVED EQUAL).
3. FIXTURE SHALL BE WIRED THRU INVERTER "INV2" (DUAL-LITE #LG125-AO OR APPROVED EQUAL).
4. FIXTURE SHALL BE WIRED THRU INVERTER "INV3" (DUAL-LITE #LG125-AO OR APPROVED EQUAL).

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. # 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

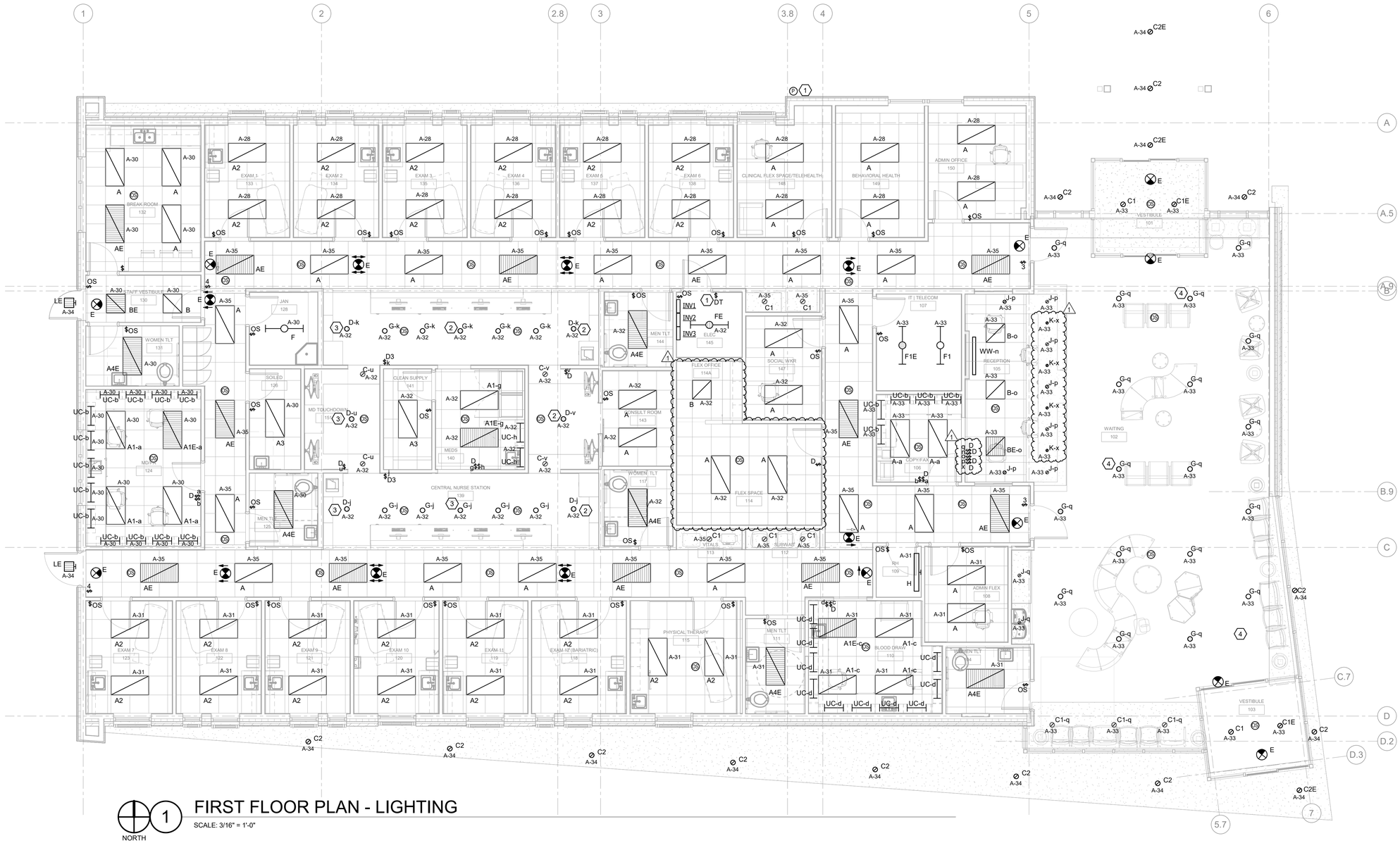
E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

G. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

H. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

I. EXIT SIGNS SHALL BE CIRCUITED TO A-43.



1 FIRST FLOOR PLAN - LIGHTING

SCALE: 3/16" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

221.064 10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

CONSTRUCTION DOCUMENTS

ELECTRICAL FIRST FLOOR PLAN - LIGHTING

ISSUE DATE 08/11/2022
CHECKED DAB
SHEET BY DEC
PROJECT NUMBER 21-025

E101

10/28/2022 4:01:40 PM BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt

KEY NOTES:

1. PROVIDE (1) 3" AND (1) 1-1/4" CONDUIT FROM ABOVE CEILING, DOWN WALL, UNDERSLAB TO DATA BACK BOXES AND RECEPTACLES AT NURSE STATION.
2. PROVIDE BRANCH CIRCUIT TO NURSE STATION FROM ABOVE CEILING, DOWN WALL, AND UNDERSLAB TO RECEPTACLE AT NURSE STATION.
3. PROVIDE WIRELESS ACCESS POINTS WITH (1) 1" CONDUIT AND BACKBOXES. COORDINATE ROUTE OF CONDUIT TO DEMARC AND ACCESS POINT WITH OWNER IT PRIOR TO ROUGH-IN.
4. PROVIDE FIRE RATED PLYWOOD FROM 24" AFF TO CEILING ON ALL WALLS. PROVIDE #6 GROUND WIRE FROM OWNER PROVIDED DATA RACKS TO BUS BAR (ELECTRICAL CONTRACTOR SHALL PROVIDE BUS BAR). COIL 10' OF WIRE.
5. ALL BEHAVIORAL HEALTH RECEPTACLES SHALL BE TAMPER RESISTANT AND STAINLESS STEEL FACEPLATES SECURED WITH STAINLESS STEEL TAMPER RESISTANT SEALANT TO ELIMINATE GAPS BETWEEN WALL/CEILINGS AND COVER PLATE.
6. NOTE NOT USED.
7. NOTE NOT USED.
8. PROVIDE BACK BOX, FACEPLATE, AND 1"C STUB ABOVE CEILING WITH PULL STRING FOR DATA OUTLETS. REFER TO DETAIL ON SHEET E601.
9. PROVIDE POWER FOR AUTOMATED DOOR SYSTEM. COORDINATE EXACT REQUIREMENT WITH VENDOR DRAWINGS.
10. NOTE NOT USED.
11. NOTE NOT USED.
12. NOTE NOT USED.
13. NOTE NOT USED.
14. NOTE NOT USED.
15. NOTE NOT USED.
16. NOTE NOT USED.
17. NOTE NOT USED.
18. COORDINATE EXACT FLOOR LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
19. COORDINATE EXACT TV LOCATIONS AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
20. COORDINATE EXACT LOCATION OF UNDERCOUNTER REFRIGERATOR PRIOR TO ROUGH-IN.
21. PROVIDE #6 GROUND WIRE FROM OWNER PROVIDED DATA RACKS TO GROUNDING BUS BAR (PBB). COIL 10' OF WIRE. CONTRACTOR TO FURNISH BUS BAR AND MOUNT AT 7'-6" A.F.F.

GENERAL NOTES (POWER/SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

E. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

F. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

G. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

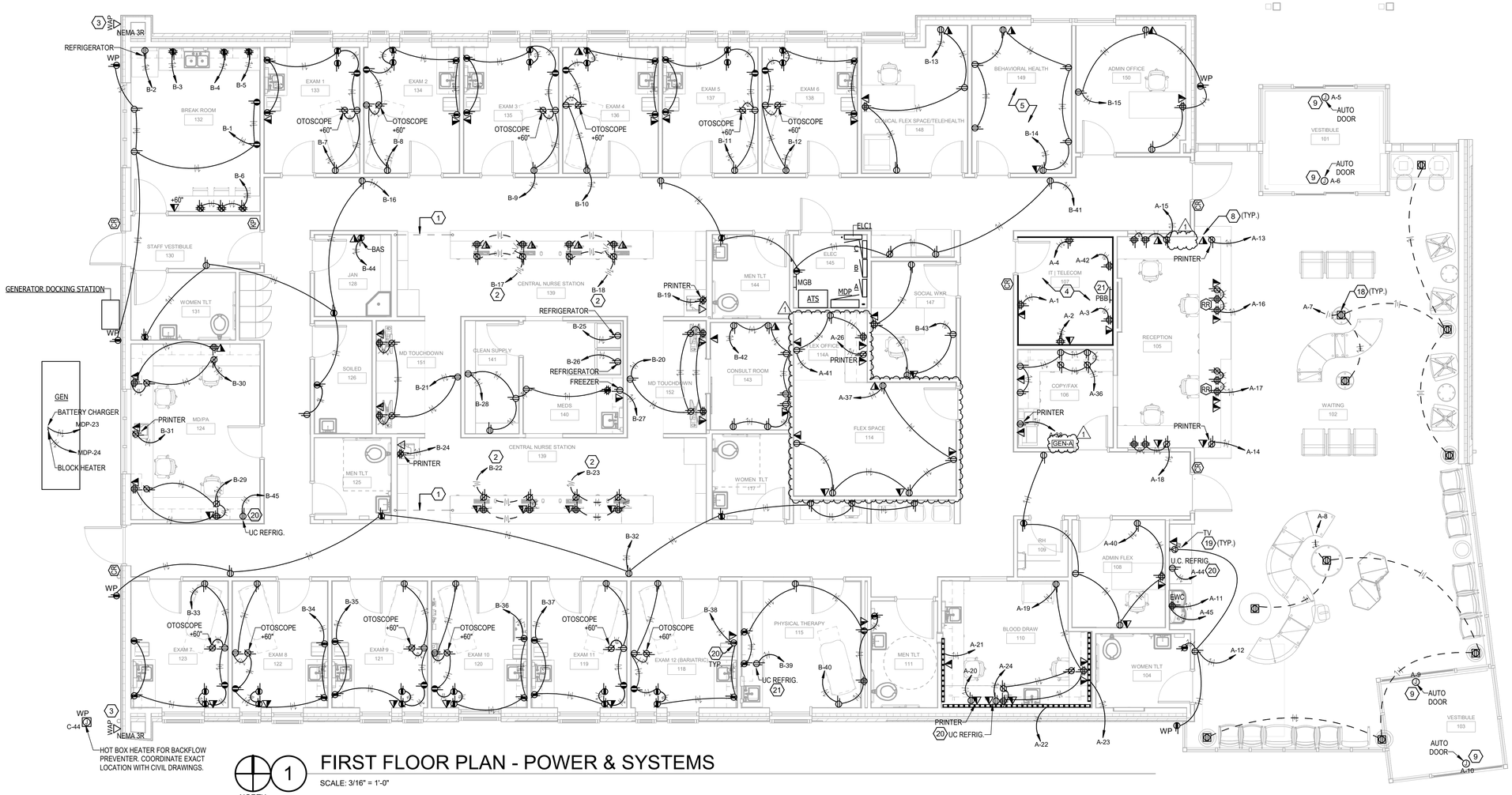
H. ALL CIRCUITS IN PATIENT CARE AREAS SHALL HAVE REDUNDANT GROUND PATHS PER NFPA 70 517.13. PATIENT CARE AREAS INCLUDE ALL EXAM ROOMS, IMAGING, BEHAVIORAL HEALTH, CLINICAL FLEX, PHYSICAL THERAPY, BARIATRIC, NURSES STATIONS AND MEDICINE WORK ROOMS.

I. ALL RECEPTACLES IN PATIENT CARE AREAS, OFFICES, CORRIDORS, WAITING ROOMS, ETC. SHALL BE TAMPER PROOF, PER NFPA 70 406.12, WITH STAINLESS STEEL TAMPER REISTANT/ TORX-HEAD FASTENERS ON ALL COVER PLATES.

J. ALL RECEPTACLES AND SWITCH PLATES SHALL BE BRUSHED STAINLESS STEEL.

K. ALL DEVICES SHALL BE HOSPITAL GRADE.

L. PROVIDE ALL GROUNDING PER NFPA 70, 517.



1 FIRST FLOOR PLAN - POWER & SYSTEMS

SCALE: 3/16" = 1'-0"

NORTH

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ARCHITECTURE ▪ PLANNING ▪ INTERIORS

1635 West Trade Street, Suite 1A
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

221.064 10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

CONSTRUCTION DOCUMENTS

ELECTRICAL FIRST FLOOR PLAN - POWER & SYSTEMS

ISSUE DATE 08/11/2022
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SHEET BY DEG
PROJECT NUMBER 21-025

E201

10/28/2022 4:01:41 PM
BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt

KEY NOTE :

1. COORDINATE EXACT LOCATION OF RECEPTACLE FOR CONDENSATE PUMP (CP-1) WITH MECHANICAL CONTRACTOR PRIOR TO BEGINNING WORK.

GENERAL NOTES (MECHANICAL POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL DISCONNECT SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

1 NORTH

FIRST FLOOR PLAN - MECHANICAL SYSTEMS

SCALE: 3/16" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date

CONSTRUCTION DOCUMENTS

ELECTRICAL FIRST FLOOR PLAN - MECHANICAL SYSTEMS

ISSUE DATE 08/11/2022
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PROJECT NUMBER 21-025

E301

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GENERAL NOTES (MECHANICAL POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

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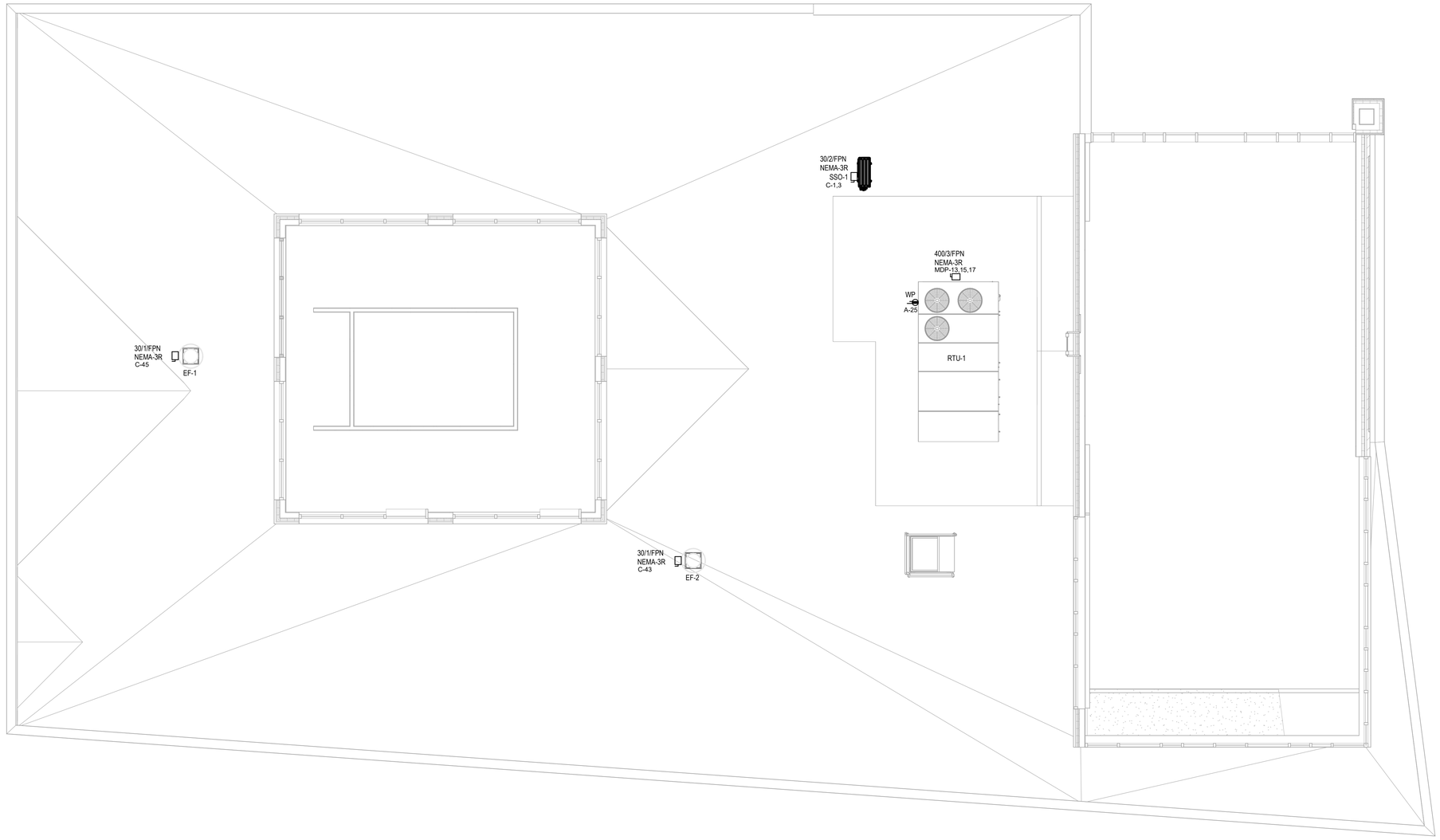

1 NORTH

ELECTRICAL ROOF PLAN - MECHANICAL SYSTEMS

SCALE: 3/16" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

CONSTRUCTION DOCUMENTS

ELECTRICAL ROOF PLAN - MECHANICAL SYSTEMS

ISSUE DATE 08/11/2022
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PROJECT NUMBER 21-025

E302

8/10/2022 4:58:23 PM BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	APPROVED EQUALS ALLOWED	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #LCAT24-40LWG-ED	YES	RECESSED	LED / 4000	4617	32	UNV	
A1	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #LCAT24-40MLG-EDU	YES	RECESSED	LED / 4000	5026	36	UNV	
A1E	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED. BATTERY BACKUP.	COLUMBIA #LCAT24-40MLG-EDU-ELL14	YES	RECESSED	LED / 4000	5026	36	UNV	
A2	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #LCAT24-40HLG-EDU	YES	RECESSED	LED / 4000	5786	40	UNV	
A3	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #SRP24-40HLHE-G-EDU	YES	RECESSED	LED / 4000	5902	42	UNV	
A4E	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED. BATTERY BACKUP.	COLUMBIA #LCAT24-40VLG-EDU-ELL14	YES	RECESSED	LED / 4000	7440	53	UNV	
AE	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED. BATTERY BACKUP.	COLUMBIA #LCAT24-40LWG-EDU-ELL14	YES	RECESSED	LED / 4000	3730	45	UNV	
B	2X2 TROFFER. 20-GAUGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROST SHIELDING. UL LISTED.	COLUMBIA #LCAT22-40MWG-EDU	YES	RECESSED	LED / 4000	1860	24	UNV	
BE	2X2 TROFFER. 20-GAUGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROST SHIELDING. UL LISTED. BATTERY BACKUP.	COLUMBIA #LCAT22-40MWG-EDU-ELL14	YES	RECESSED	LED / 4000	2253	16	UNV	
C	6" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	PRESCOLITE #LTR-6RD-H-ML25L-DM1/LTR-6RD-T-ML40K8MD-SS	YES	RECESSED	LED / 4000	2612	30	UNV	
C1	6" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	PRESCOLITE #LTR-6RD-H-SL10L-DM1/LTR-6RD-T-ML40K8WD-SS	YES	RECESSED	LED / 4000	1203.92	12	UNV	
C1E	6" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED. BATTERY BACKUP.	PRESCOLITE #LTR-6RD-H-S10L-DM1/LTR-6RD-T-ML40K8WD-SSEM	YES	RECESSED	LED / 4000	1203.92	12	UNV	
C2	6" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	PRESCOLITE #LTR-6RD-H-SL15L-DM1/LTR-6RD-T-ML40K8WD-SS	YES	RECESSED	LED / 4000	1586	19	UNV	
C2E	6" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED. BATTERY BACKUP.	PRESCOLITE #LTR-6RD-H-ML15L-DM1/LTR-6RD-T-ML40K8MD-SSEM	YES	RECESSED	LED / 4000	1586	19	UNV	
D	PENDANT MOUNTED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	ALW #I6RT-N-1-V-138340W-30834051NN-FINISH-RS-FINISH	YES	PENDANT	LED / 4000	3077	30	UNV	BOTTOM OF FIXTURE SHALL BE FLUSH WITH CEILING BAFFLES.
E	EDGE-LIT EXIT SIGN WITH RED LETTERS	COMPASS #CELS(1/2)RNE	YES	SURFACE	-	--	5	UNV	SEE DRAWINGS FOR ARROWS.
F	4' PENDANT STRIP FIXTURE.	COLUMBIA #LCL4-40ML-EDU	YES	PENDANT	LED / 4000	5411	42	UNV	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
F1	4' PENDANT STRIP FIXTURE.	COLUMBIA #LCL4-50ML-EDU	YES	PENDANT	LED / 5000	5556	42	UNV	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
F1E	4' PENDANT STRIP FIXTURE. BATTERY BACKUP.	COLUMBIA #LCL4-50ML-EDU-ELL14	YES	PENDANT	LED / 5000	5556	42	UNV	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
FE	4' PENDANT STRIP FIXTURE. BATTERY BACKUP.	COLUMBIA #LCL4-40ML-EDU-ELL14	YES	PENDANT	LED / 4000	4600	41	UNV	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
G	6" PENDANT MOUNTED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	ALW #I6RT-N-1-V-MOD-30834051NN-FINISH-RS-FINISH-DOWNLIGHT ONLY	YES	PENDANT	LED / 4000	3077	30	UNV	BOTTOM OF FIXTURE SHALL BE FLUSH WITH CEILING BAFFLES.
H	4' WALL MOUNTED FIXTURE.	COLUMBIA #ESL-4-4000-MW-FA-W-ED-U	YES	SURFACE/WALL	LED / 4000	3702	30	UNV	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
J	3" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	PRESCOLITE #LTR-3RD-H-SL15L-DM1/LTR-3RD-T-SL40K8MD-SS	YES	RECESSED	LED / 4000	2612	30	UNV	
K	RETRO STYLE PENDANT WITH ETCHED ACRYLIC DIFFUSER	WAC LIGHTING #PD-76908	YES	PENDANT	LED / 3000	674	7	UNV	MOUNT AT 7'-0" TO BOTTOM OF FIXTURE. COORDINATE FINISH WITH ARCHITECT.
LE	LOW PROFILE EMERGENSY LED FIXTURE	SIGNTEX #MLE-BB-10-(HOUSING COLOR BY ARCHITECT)-W	YES	WALL	LED / 4000	446	18	UNV	DOOR FRAME COORDINATE FIXTURE MULLION MOUNTING WITH
UC	UNDERCABINET FIXTURE	COLUMBIA #CUC*-CS-ED120	YES	SURFACE	LED / 4000	740	13	UNV	
WW	RECESSED WALL WASHER	COLUMBIA #CWW4-40VW-1WW-EDU	YES	RECESSED	LED / 4000	3389	31	UNV	

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE

METHOD OF COMPLIANCE

ENERGY CODE	☐ PERFORMANCE	☒ PRESCRIPTIVE
ASHRAE 90.1	☐ PERFORMANCE	☐ PRESCRIPTIVE

LIGHTING SCHEDULE:

LAMP TYPE REQUIRED IN FIXTURE	SEE FIXTURE SCHEDULE
NUMBER OF LAMPS IN FIXTURE	SEE FIXTURE SCHEDULE
BALLAST TYPE USED IN THE FIXTURE	SEE FIXTURE SCHEDULE
NUMBER OF BALLAST IN FIXTURE	SEE FIXTURE SCHEDULE
TOTAL WATTAGE PER FIXTURE	SEE FIXTURE SCHEDULE
TOTAL INTERIOR WATTAGE SPEC'D VS. ALLOWED	5617 vs. 7948
☐ WHOLE BUILDING ☒ SPACE BY SPACE	
TOTAL EXTERIOR WATTAGE SPEC'D VS. ALLOWED	330.5 vs. 515.75

ADDITIONAL EFFICIENCY PACKAGE OPTIONS

(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

- ☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
- ☒ C406.3 REDUCED LIGHTING POWER DENSITY
- ☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- ☐ C406.5 ON-SITE RENEWABLE ENERGY
- ☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
- ☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNER STATEMENT:

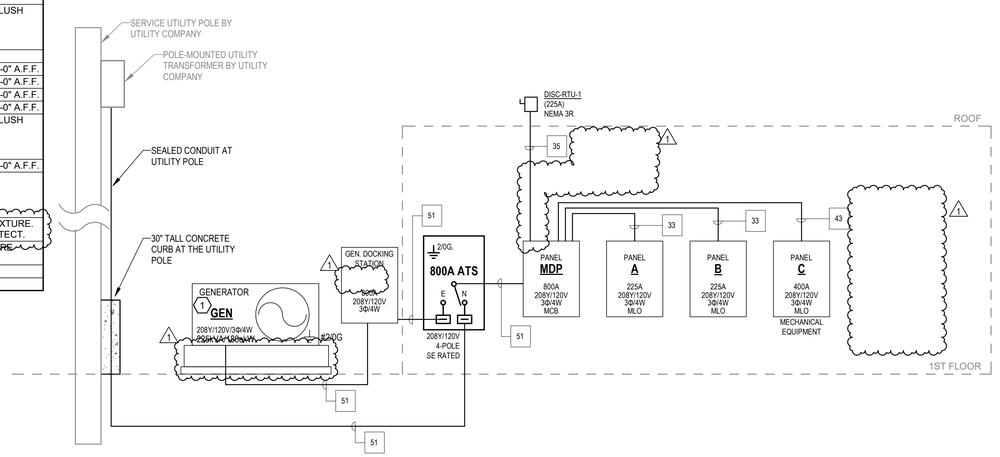
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE 2018 NORTH CAROLINA ENERGY CODE.

FEEDER SCHEDULE

TAG	OCPD SETTING	FEEDER DESCRIPTION (THWN/THHN COPPER)	EQPT. GRD.	CONDUIT SIZE
14	60/3 (3W)	(3) #6	(1) #10	1"
15	60/3 (4W)	(4) #6	(1) #10	1"
16	70/2 OR 80/2 (2W)	(2) #4	(1) #8	1"
17	70/2 OR 80/2 (3W)	(3) #4	(1) #8	1-1/4"
18	70/3 OR 80/3 (3W)	(3) #4	(1) #8	1-1/4"
19	70/3 OR 80/3 (4W)	(4) #4	(1) #8	1-1/4"
20	90/2 OR 100/2 (2W)	(2) #3	(1) #8	1"
21	90/2 OR 100/2 (3W)	(3) #3	(1) #8	1-1/4"
22	90/3 OR 100/3 (3W)	(3) #3	(1) #8	1-1/4"
23	90/3 OR 100/3 (4W)	(4) #3	(1) #8	1-1/4"
24	110/3 (3W)	(3) #2	(1) #6	1-1/4"
25	110/3 (4W)	(4) #2	(1) #6	1-1/2"
26	125/3 (3W)	(3) #1	(1) #6	1-1/2"
27	125/3 (4W)	(4) #1	(1) #6	1-1/2"
28	150/3 (3W)	(3) #1/0	(1) #6	1-1/2"
29	150/3 (4W)	(4) #1/0	(1) #6	2"
30	175/3 (3W)	(3) #2/0	(1) #6	2"
31	175/3 (4W)	(4) #2/0	(1) #6	2"
32	200/3 (3W)	(3) #3/0	(1) #6	2"
33	200/3 (4W)	(4) #3/0	(1) #6	2"

FEEDER SCHEDULE

TAG	OCPD SETTING	FEEDER DESCRIPTION (THWN/THHN COPPER)	EQPT. GRD.	CONDUIT SIZE
34	225/3 (3W)	(3) #4/0	(1) #4	2-1/2"
35	225/3 (4W)	(4) #4/0	(1) #4	2-1/2"
36	250/3 (3W)	(3) #250 KCMIL	(1) #4	2-1/2"
37	250/3 (4W)	(4) #250 KCMIL	(1) #4	3"
38	300/3 (3W)	(3) #350 KCMIL	(1) #4	3"
39	300/3 (4W)	(4) #350 KCMIL	(1) #4	3"
40	350/3 (3W)	(3) #500 KCMIL	(1) #3	4"
41	350/3 (4W)	(4) #500 KCMIL	(1) #3	4"
42	400/3 (3W)	(3) #500 KCMIL	(1) #3	4"
43	400/3 (4W)	(4) #500 KCMIL	(1) #3	4"
44	500/3 (3W)	2 RUNS OF (3) - #250 KCMIL/PHASE	(1) #2	3"
45	500/3 (4W)	2 RUNS OF (4) - #250 KCMIL/PHASE	(1) #2	3"
46	600/3 (3W)	2 RUNS OF (3) - #350 KCMIL/PHASE	(1) #1	3"
47	600/3 (4W)	2 RUNS OF (4) - #350 KCMIL/PHASE	(1) #1	3"
48	700/3 (3W)	2 RUNS OF (3) - #500 KCMIL/PHASE	(1) #1/0	4"
49	700/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	4"
50	800/3 (3W)	2 RUNS OF (3) - #500 KCMIL/PHASE	(1) #1/0	4"
51	800/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	4"
52	1000/3 (3W)	3 RUNS OF (3) - #500 KCMIL/PHASE	(1) #2/0	4"
53	1000/3 (4W)	3 RUNS OF (4) - #500 KCMIL/PHASE	(1) #2/0	4"
54	1200/3 (3W)	4 RUNS OF (3) - #350 KCMIL/PHASE	(1) #3/0	3-1/2"
55	1200/3 (4W)	4 RUNS OF (4) - #350 KCMIL/PHASE	(1) #3/0	3-1/2"



1 ELECTRICAL RISER DIAGRAM

NO SCALE

KEY NOTES:

1. DIESEL GENERATOR WITH BELLY 24 HOUR TANK AND HIGHLY CORROSION-RESISTANT ENCLOSURE (ENCLOSURE RECOMMENDED FOR COASTAL REGIONS) ON CONCRETE PAD. SEE DETAIL 8/E601.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

221.064 10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

CONSTRUCTION DOCUMENTS

ELECTRICAL RISER DIAGRAM & SCHEDULES

ISSUE DATE 08/11/2022
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-025

E500

10/28/2022 4:10:38 PM BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIP ID	DESCRIPTION	VOLTAGE	POLES	HP	FLA	POWER (kVA)	MCA	MOCP	FURNISHED BY	INSTALLED BY
EF-1	EXHAUST FAN	120	1	1/4	5.8	0.70	7.25	15	MC	EC
EF-2	EXHAUST FAN	120	1	1/4	5.8	0.70	7.25	15	MC	EC
FPB-01	FAN POWERED AIR TERMINAL UNIT	208	3	-	19.6	6.00	14.5	25	MC	EC
FPB-02	FAN POWERED AIR TERMINAL UNIT	208	3	-	32.7	10.00	40.9	45	MC	EC
HWRP-1	HOT WATER RECIRCULATION PUMP	120	1	1/6	4.4	0.53	5.5	15	PC	PC
RTU-1	ROOF TOP UNIT	208	3	-	-	51.55	184.05	225	MC	INTEGRAL
SSI-1	SPLIT SYSTEM - INDOOR UNIT	208	2	-	-	6.00	1.2	15	-	EC
SSO-1	SPLIT SYSTEM - OUTDOOR UNIT	208	2	-	-	2.50	15.0	20	MC	EC
VAV-01	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	2.50	15.0	20	MC	EC
VAV-02	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	2.00	12.0	15	MC	EC
VAV-03	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	2.00	12.0	15	MC	EC
VAV-04	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	4.00	24.0	30	MC	EC
VAV-05	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	1.50	9.0	15	MC	EC
VAV-06	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	1.50	9.0	15	MC	EC
VAV-07	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	3.50	21.0	25	MC	EC
VAV-08	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	3.50	21.0	25	MC	EC
VAV-09	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	3.50	21.0	25	MC	EC
VAV-10	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	1.50	9.0	15	MC	EC
VAV-11	VARIABLE VOLUME AIR TERMINAL UNIT	208	3	-	-	6.50	22.57	25	MC	EC
VAV-12	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	2.50	15.0	20	MC	EC
VAV-13	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	3.00	21.0	25	MC	EC
VAV-14	VARIABLE VOLUME AIR TERMINAL UNIT	208	2	-	-	3.00	18.0	20	MC	EC
WH-1	ELECTRIC WATER HEATER	208	3	-	-	6.00	20.83	25	EC	EC

PANELBOARD AND WIRING SCHEDULE

PANEL: MDP — **MAINS TYPE:** MCB — **SCCR (kA):** 42
VOLTAGE: 208Y/120V,3P,4W — **SPD:** — **AVAIL FAULT CURRENT (kA):**
AMPERES: 800 A — **MOUNTING:** SURFACE — **SUPPLY FROM:**

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
							1	12.9	17.9		2							
PANEL "A"	SEE	RISER	DIAGR	AM	200	3	3		11.9	16.0	4	3	200	SEE	RISER	DIAG	RAM	PANEL "B"
							5			12.1	14.9	6						
							7	23.7	--			8	1	--	--	--	--	SPACE
PANEL "C"	SEE	RISER	DIAGR	AM	400	3	9		24.6	--		10	1	--	--	--	--	SPACE
							11			24.9	--	12	1	--	--	--	--	SPACE
							13	17.2	--			14	1	--	--	--	--	SPACE
RTU-1 (MCA: 184 MOCP: 225)	SEE	RISER	DIAGR	AM	225	3	15		17.2	--	16	1	--	--	--	--	--	SPACE
							17			17.2	0.2	18						
ELC1		#12	#12	3/4"	20	1	19	1.8	0.2			20	3	30	3/4"	#12	#12	SPD
SPARE		--	--	--	20	1	21		0.0	0.2		22						
GENERATOR BLOCK...		#12	#12	3/4"	20	1	23			1.8	1.8	24	1	20	3/4"	#12	#12	GENERATOR BATTERY...
EV CHARGER 1A (FUTURE)	1	-	-	1"	40	2	25	3.3	3.3			26	2	40	1"	-	-	1 EV CHARGER 1B (FUTURE)
							27		3.3	3.3		28						
SPACE		--	--	--	--	1	29			--	--	30	1	--	--	--	--	SPACE
SPACE		--	--	--	--	1	31	--	--			32	1	--	--	--	--	SPACE
SPACE		--	--	--	--	1	33		--	--		34	1	--	--	--	--	SPACE
SPACE		--	--	--	--	1	35			--	--	36	1	--	--	--	--	SPACE
SPACE		--	--	--	--	1	37	--	--			38	1	--	--	--	--	SPACE
SPACE		--	--	--	--	1	39		--	--		40	1	--	--	--	--	SPACE
SPACE		--	--	--	--	1	41			--	--	42	1	--	--	--	--	SPACE
			TOTAL LOAD (kVA):					80.2 kVA	76.5 kVA	72.9 kVA								
			TOTAL CURRENT (A):					673 A	642 A	607 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	45912 VA	100.00%	45912 VA	TOTAL CONNECTED LOAD:	230 kVA
HVAC	117952 VA	100.00%	117952 VA	TOTAL ESTIMATED DEMAND:	205 kVA
LTNG	5845 VA	100.00%	5845 VA	TOTAL CONNECTED CURRENT:	637 A
REC	59900 VA	58.35%	34950 VA	TOTAL ESTIMATED DEMAND CURRENT:	568 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE ALTERNATE PRICING FOR BREAKER AND ASSOCIATED CONDUIT.

PANELBOARD AND WIRING SCHEDULE

PANEL: A — **MAINS TYPE:** MLO — **SCCR (kA):** 42
VOLTAGE: 208Y/120V,3P,4W — **SPD:** — **AVAIL FAULT CURRENT (kA):**
AMPERES: 225 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** MDP

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
IT/TELE #107 - RECEP.		#12	#12	3/4"	20	1	1	0.2	0.2		2	1	20	3/4"	#12	#12		IT/TELE #107 - RECEP.
IT/TELE #107 - RECEP.		#12	#12	3/4"	20	1	3		0.2	0.2	4	1	20	3/4"	#12	#12		IT/TELE #107 - RECEP.
VEST. #101 - AUTO. DOOR		#12	#12	3/4"	20	1	5			0.5	0.5	6	1	20	3/4"	#12	#12	VEST. #101 - AUTO. DOOR
WAIT #102 - FLOOR BOXES		#12	#12	3/4"	20	1	7	1.1	1.8			8	1	20	3/4"	#12	#12	WAIT #102 - FLOOR BOXES
VEST. #103 - AUTO. DOOR		#12	#12	3/4"	20	1	9		0.5	0.5		10	1	20	3/4"	#12	#12	VEST. #103 - AUTO. DOOR
WAITING #102 - EWC	2	#12	#12	3/4"	20	1	11			1.0	0.5	12	1	20	3/4"	#12	#12	WAITING #102 - RECEP.
RECEPTION #PRINTER		#12	#12	3/4"	20	1	13	1.0	1.0			14	1	20	3/4"	#12	#12	RECEPTION #PRINTER
RECEPTION #RECEP.		#12	#12	3/4"	20	1	15		1.1	1.1		16	1	20	3/4"	#12	#12	RECEPTION #RECEP.
RECEPTION #RECEP.		#12	#12	3/4"	20	1	17			1.1	1.1	18	1	20	3/4"	#12	#12	RECEPTION #RECEP.
LAB #110 - RECEP.	2	#12	#12	3/4"	20	1	19	0.9	1.0			20	1	20	3/4"	#12	#12	2 LAB #110 - PRINTER
LAB #110 - PLUG MOLD	2	#12	#12	3/4"	20	1	21		1.2	1.6		22	1	20	3/4"	#12	#12	2 LAB #110 - PLUG MOLD
LAB #110 - PLUG MOLD		#12	#12	3/4"	20	1	23			1.2	0.2	24	1	20	3/4"	#12	#12	2 BLOOD DRAW #110 - U.C.
ROOF TOP RECEP.		#12	#12	3/4"	20	1	25	0.2	1.0			26	1	20	3/4"	#12	#12	FLEX OFFICE #114A - PRINT
SITE - SIGN #1	2	#8	#8	1"	20	1	27		1.8	0.7		28	1	20	3/4"	#12	#12	LIGHTING
SITE - SIGN #1	2	#10	#10	1"	20	1	29			1.8	0.7	30	1	20	3/4"	#12	#12	LIGHTING
LIGHTING		#12	#12	3/4"	20	1	31	0.9	1.1			32	1	20	3/4"	#12	#12	LIGHTING
LIGHTING		#12	#12	3/4"	20	1	33		1.2	0.3		34	1	20	3/4"	#12	#12	1 EXT. LIGHTING (PC/TC)
LIGHTING		#12	#12	3/4"	20	1	35			1.0	1.1	36	1	20	3/4"	#12	#12	COPY/FAX #106 - RECEP.
FLEX #114 - RECEP.		#12	#12	3/4"	20	1	37	0.9	1.5			38	1	20	3/4"	#12	#12	COPY/FAX #106 - PRINTER
SPARE		--	--	--	20	1	39		0.0	1.1		40	1	20	3/4"	#12	#12	ADMIN FLEX - RECEP.
FLEX OFFICE #114A - REC.		#12	#12	3/4"	20	1	41			1.3	0.2	42	1	20	3/4"	#12	#12	IT/TELE #107 - RECEP.
LTNG - EXT SIGNS		#12	#12	3/4"	20	1	43	0.0	0.2			44	1	20	3/4"	#12	#12	2 WAIT #102 - U.C....
WAITING #102 - EWC	2	#12	#12	3/4"	20	1	45		0.5	0.0		46	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	47			0.0	0.0	48	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	49	0.0	0.0			50	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	51		0.0	0.0		52	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	53			0.0	0.0	54	1	20	--	--	--	SPARE
			TOTAL LOAD (kVA):					12.9 kVA	11.9 kVA	12.1 kVA								
			TOTAL CURRENT (A):					108 A	99 A	101 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	11600 VA	100.00%	11600 VA	TOTAL CONNECTED LOAD:	37 kVA
LTNG	5845 VA	100.00%	5845 VA	TOTAL ESTIMATED DEMAND:	32 kVA
REC	19400 VA	75.77%	14700 VA	TOTAL CONNECTED CURRENT:	102 A
				TOTAL ESTIMATED DEMAND CURRENT:	89 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PC/TC - PHOTOCELL ON, TIMECLOCK OFF. 2. PROVIDE GFCI TYPE BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: B — **MAINS TYPE:** MLO — **SCCR (kA):** 42
VOLTAGE: 208Y/120V,3P,4W — **SPD:** — **AVAIL FAULT CURRENT (kA):**
AMPERES: 225 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** MDP

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
BREAK RM #132 - RECEP.		#12	#12	3/4"	20	1	1	1.1	1.0		2	1	20	3/4"	#12	#12	1	BREAK RM #132 - REFRIG.
BREAK RM #132 - RECEP.		#12	#12	3/4"	20	1	3		1.2	1.2	4	1	20	3/4"	#12	#12		BREAK RM #132 - EQUIP.
BREAK RM #132 - RECEP.		#12	#12	3/4"	20	1	5			1.2	0.5	6	1	20	3/4"	#12	#12	BREAK RM #132 - RECEP.
EXAM 1 #133 - RECEP.		#12	#12	3/4"	20	1	7	1.4	1.4			8	1	20	3/4"	#12	#12	EXAM 2 #134 - RECEP.
EXAM 3 #135 - RECEP.		#12	#12	3/4"	20	1	9		1.4	1.4	10	1	20	3/4"	#12	#12		EXAM 4 #136 - RECEP.
EXAM 5 #137 - RECEP.		#12	#12	3/4"	20	1	11			1.4	1.4	12	1	20	3/4"	#12	#12	EXAM 6 #138 - RECEP.
BEHAVIORAL HEALTH -...		#12	#12	3/4"	20	1	13	0.7	1.1			14	1	20	3/4"	#12	#12	CLINICAL FLEX - RECEP.
ADMIN #150 - RECEP.		#12	#12	3/4"	20	1	15		0.9	1.1		16	1	20	3/4"	#12	#12	GENERAL RECEP.
NURSE STATION - RECEP.		#12	#12	3/4"	20	1	17			0.7	0.7	18	1	20	3/4"	#12	#12	NURSE STATION - RECEP.
NURSE STATION - PRINTER		#12	#12	3/4"	20	1	19	1.5	0.9			20	1	20	3/4"	#12	#12	MD TOUCHDOWN - RECEP.
MD TOUCHDOWN - RECEP.		#12	#12	3/4"	20	1	21		0.9	0.7		22	1	20	3/4"	#12	#12	NURSE STATION - RECEP.
NURSE STATION - RECEP.		#12	#12	3/4"	20	1	23			0.7	1.5	24	1	20	3/4"	#12	#12	NURSE STATION - PRINTER
MEDS #140 - REFRIG.		#12	#12	3/4"	20	1	25	1.0	1.0			26	1	20	3/4"	#12	#12	1 MEDS #140 - REFRIG.
MEDS #140 - FREEZER	1	#12	#12	3/4"	20	1	27		1.0	0.9		28	1	20	3/4"	#12	#12	MEDS #140 - RECEP.
MD/PA #124 - RECEP.		#12	#12	3/4"	20	1	29			0.7	0.7	30	1	20	3/4"	#12	#12	MD/PA #124 - RECEP.
MD/PA #124 - PRINTER		#12	#12	3/4"	20	1	31	1.5	1.4			32	1	20	3/4"	#12	#12	GENERAL RECEP.
EXAM 7 #123 - RECEP.		#12	#12	3/4"	20	1	33		1.4	1.4		34	1	20	3/4"	#12	#12	EXAM 8 #122 - RECEP.
EXAM 9 #121 - RECEP.		#12	#12	3/4"	20	1	35			1.4	1.4	36	1	20	3/4"	#12	#12	EXAM 10 #120 - RECEP.
EXAM 11 #119 - RECEP.		#12	#12	3/4"	20	1	37	1.4	1.4			38	1	20	3/4"	#12	#12	EXAM 12 #118 - RECEP.
PHY. THERAPY - REFRIG.	1	#12	#12	3/4"	20	1	39		0.9	1.3		40	1	20	3/4"	#12	#12	PHY. THERAPY - RECEP.
GENERAL RECEP.		#12	#12	3/4"	20	1	41			1.1	1.3	42	1	20	3/4"	#12	#12	CONSULT RM - RECEP.
SOCIAL WORK #147 - RECEP.		#12	#12	3/4"	20	1	43	0.7	0.2			44	1	20	3/4"	#12	#12	JAN #128 - BAS RECEP.
MD/PA #124 - U.C. REFRIG.		#12	#12	3/4"	20	1	45		0.2	0.0		46	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	47			0.0	0.0	48	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	49	0.0	0.0			50	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	51		0.0	0.0		52	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	53			0.0	0.0	54	1	20	--	--	--	SPARE
			TOTAL LOAD (kVA):					17.9 kVA	16.0 kVA	14.9 kVA								
			TOTAL CURRENT (A):					150 A	135 A	125 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	8500 VA	100.00%	8500 VA	TOTAL CONNECTED LOAD:	49 kVA
REC	40320 VA	62.40%	25160 VA	TOTAL ESTIMATED DEMAND:	34 kVA
				TOTAL CONNECTED CURRENT:	136 A
				TOTAL ESTIMATED DEMAND CURRENT:	93 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE GFCI TYPE BREAKER.

PANELBOARD AND WIRING SCHEDULE

MECH. EQUIP. PANEL

PANEL: C — **MAINS TYPE:** MLO — **SCCR (kA):** 42
VOLTAGE: 208Y/120V,3P,4W — **SPD:** — **AVAIL FAULT CURRENT (kA):**
AMPERES: 400 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** MDP

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
SSO-1 (MCA: 15 MOCP: 20)		#12	#12	3/4"	20	2	1	1.3	1.3		2							
							3		1.3	1.3	4							
VAV-02 (2.0 KW)		#12	#12	3/4"	20	2	5			1.0	1.0	6	2	20	3/4"	#12	#12	VAV-03 (2.0 KW)
							7	1.0	1.0			8						
VAV-04 (4.0 KW)		#12	#12	3/4"	20	2	9		2.0	0.8		10						
							11			2.0	0.8	12	2	20	3/4"	#12	#12	VAV-05 (1.5 KW)
VAV-06 (1.5 KW)		#12	#12	3/4"	20	2	13	0.8	1.8			14						
							15		0.8	1.8		16	2	25	3/4"	#10	#10	VAV-07 (3.5 KW)
VAV-08 (3.5 KW)		#10	#10	3/4"	25	2	17			1.8	1.8	18	2	20	3/4"	#12	#12	VAV-09 (3.5 KW)
							19	1.8	1.8			20						
VAV-10 (1.5 KW)		#12	#12	3/4"	20	2	21			0.8	2.2	22						
							23			0.8	2.2	24	3	30	3/4"	#10	#10	VAV-11 (6.5 KW)
VAV-12 (2.5 KW)		#12	#12	3/4"	20	2	25	1.3	2.2			26						
							27		1.3	1.5		28	2	20	3/4"	#12	#12	VAV-13 (3.0 KW)
VAV-14 (3.0 KW)		#12	#12	3/4"	20	2	29			1.5	1.5	30						
							31	1.5	3.3			32						
FPB-01 (6.0 KW)		#10	#10	3/4"	25	3	33			2.0	3.3	34	3	45	3/4"	#10	#8	FPB-02 (10.0 KW)
							35				2.0	3.3	36					
							37	2.0	2.0			38						
SSI-1 (MCA: 1.2 MOCP: 15)		#12	#12	3/4"	20	2	39		3.0	2.0		40	3	30	3/4"	#10	#10	WH-1 (6.0 KW)
							41			3.0	2.0	42						
EF-2 (1/4 HP)		#12	#12	3/4"	20	1	43	0.7	0.2			44	1	20	3/4"	#12	#12	1 HOT BOX HEATER
EF-1 (1/4 HP)		#12	#12	3/4"	20	1	45		0.7	0.2		46	1	20	3/4"	#12	#12	CP-1 RECEP.
HWRP-1 (1/6 HP)		#12	#12	3/4"	20	1	47			0.4	0.0	48	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	49	0.0	0.0			50	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	51		0.0	0.0		52	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	53			0.0	0.0	54	1	20	--	--	--	SPARE
			TOTAL LOAD (kVA):					23.7 kVA	24.6 kVA	24.9 kVA								
			TOTAL CURRENT (A):					197 A	207 A	209 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6600 VA	100.00%	6600 VA	TOTAL CONNECTED LOAD:	73 kVA
HVAC	66400 VA	100.00%	66400 VA	TOTAL ESTIMATED DEMAND:	73 kVA
REC	180 VA	100.00%	180 VA	TOTAL CONNECTED CURRENT:	203 A
				TOTAL ESTIMATED DEMAND CURRENT:	203 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE GFCI TYPE BREAKER.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 DANIEL A. BOLAND

221.064 10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

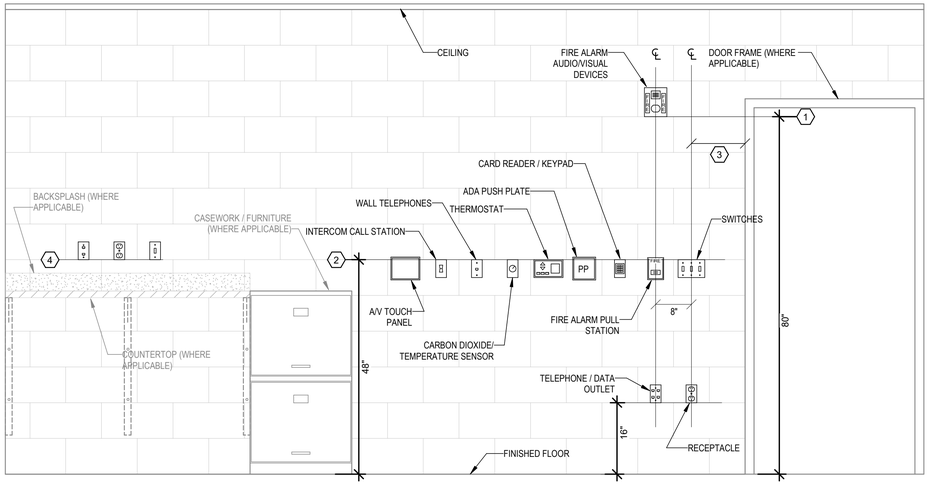
CONSTRUCTION DOCUMENTS

ELECTRICAL PANEL SCHEDULES

ISSUE DATE 08/11/2022
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-025

E501

10/28/2022 4:10:38 PM BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt



DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).

B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).

C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES:

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.

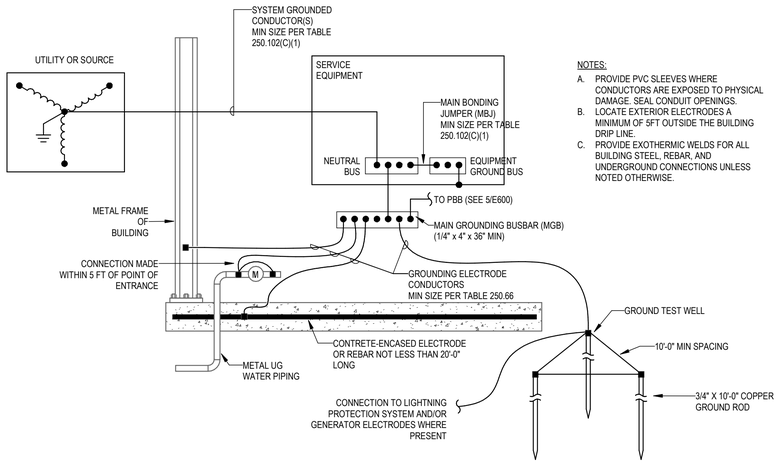
2. ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.

3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.

4. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.

1 TYPICAL WALL DEVICE MOUNTING DETAIL

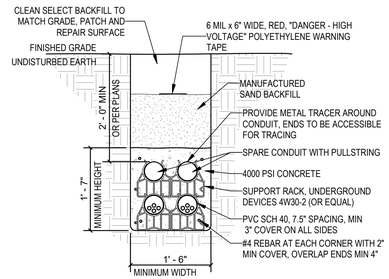
NO SCALE



NOTES:
A. PROVIDE PVC SLEEVES WHERE CONDUCTORS ARE EXPOSED TO PHYSICAL DAMAGE. SEAL CONDUIT OPENINGS.
B. LOCATE EXTERIOR ELECTRODES A MINIMUM OF 5FT OUTSIDE THE BUILDING DRIP LINE.
C. PROVIDE EXOTHERMIC WELDS FOR ALL BUILDING STEEL, REBAR, AND UNDERGROUND CONNECTIONS UNLESS NOTED OTHERWISE.

2 GROUNDING ELECTRODE SYSTEM DETAIL

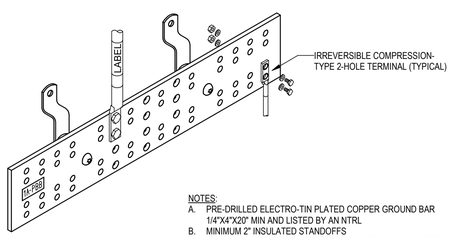
NO SCALE



DUCT BANK NOTES:
A. USE RIGID STEEL SWEEPING ELBOWS AT ALL TURNS, WHERE RISING ON UTILITY POWER POLE, TURNING UP INTO PAD MOUNTED UTILITY TRANSFORMER AND TURNING UP INTO BUILDING.
B. REFER TO POWER RISER, FLOOR PLANS AND PLAN NOTES FOR EXACT QUANTITY AND SIZE OF CONDUITS.
C. COMMUNICATIONS/FIBER RACEWAYS SHALL BE ROUTED IN DUCT BANK ENCASED CONSTRUCTION, CONSTRUCTED SAME AS SHOWN, EXCEPT FOR NUMBER AND SIZE OF CONDUIT.
D. POUR CONCRETE AGAINST UNDISTURBED EARTH.
E. REFER TO SPECIFICATIONS FOR EXCAVATION, TRENCHING, BACKFILLING AND GRADING REQUIREMENTS. REFER TO EARTHWORK SPECIFICATIONS FOR GENERAL ROCK REMOVAL AND EARTHWORK REQUIREMENTS.

3 DUCT BANK DETAIL - 4 CONDUIT

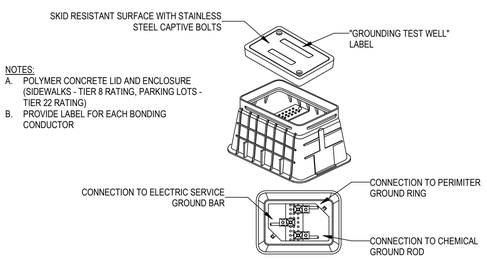
NO SCALE



NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X4"X20" MIN AND LISTED BY AN NTRL
B. MINIMUM 2" INSULATED STANDOFFS
C. BICSI/TIA-607 STYLE HOLE PATTERN FOR TELECOM CLOSET
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

4 GROUNDING BUSBAR

NO SCALE



NOTES:
A. POLYMER CONCRETE LID AND ENCLOSURE (SIDEWALKS - TIER 8 RATING, PARKING LOTS - TIER 22 RATING)
B. PROVIDE LABEL FOR EACH BONDING CONDUCTOR

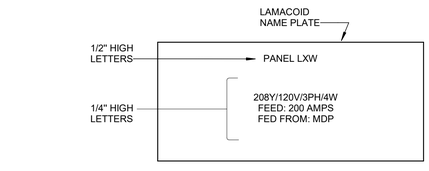
5 GROUND INSPECTION WELL

NO SCALE

System	Current Color
Voice/Data	Blue
Nurse Call/Code Blue (Rauland/HilRom/Clinic Systems)	White
Fire Alarms	Red
Security Systems/Access Control	Purple
Life Safety Branch	Yellow
Critical Branch	Orange
Equipment Branch	Green
Normal Branch	None/Silver

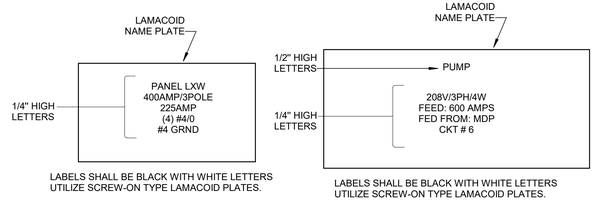
6 CONDUIT COLOR CODE STANDARD

NO SCALE



LABELS SHALL BE BLACK WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

TYPICAL POWER PANEL NAMEPLATE DETAIL
NO SCALE



LABELS SHALL BE BLACK WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

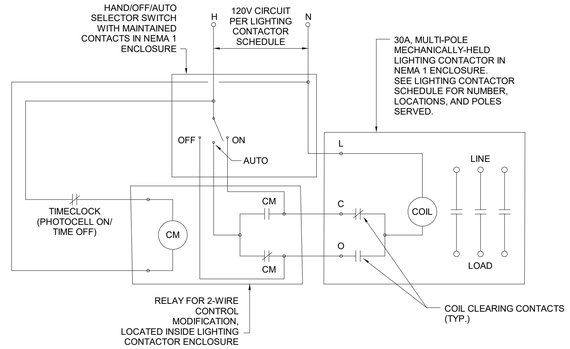
LABELS SHALL BE BLACK WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

TYPICAL DISTRIBUTION PANELBOARD CIRCUIT LABEL NAMEPLATE DETAIL
NO SCALE

TYPICAL DISCONNECT AND COMBINATION STARTER/DISCONNECT NAMEPLATE DETAIL
NO SCALE

7 PANEL LABELING DETAILS

NO SCALE



NOTES:
1. INSTRUCT OWNER ON THE OPERATION OF THE CONTROLS.
2. PROVIDE ALL NECESSARY WIRING AND CONDUIT FOR A COMPLETE, OPERABLE AUTOMATIC LIGHTING CONTROL SYSTEM.

EXTERIOR LIGHTING CONTACTOR SCHEDULE (TORK #ELC74 OR APPROVED EQUAL)				
DESIGNATION	LOCATION	POLES	CONTROL CIRCUIT	POLES SERVED
ELC1	ELEC 145	4	MDP-19	A-27, A-29, A-34

8 EXTERIOR LIGHTING CONTROL DIAGRAM

NO SCALE

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date

CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

ISSUE DATE 08/11/2022
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PROJECT NUMBER 21-025

E600

BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt
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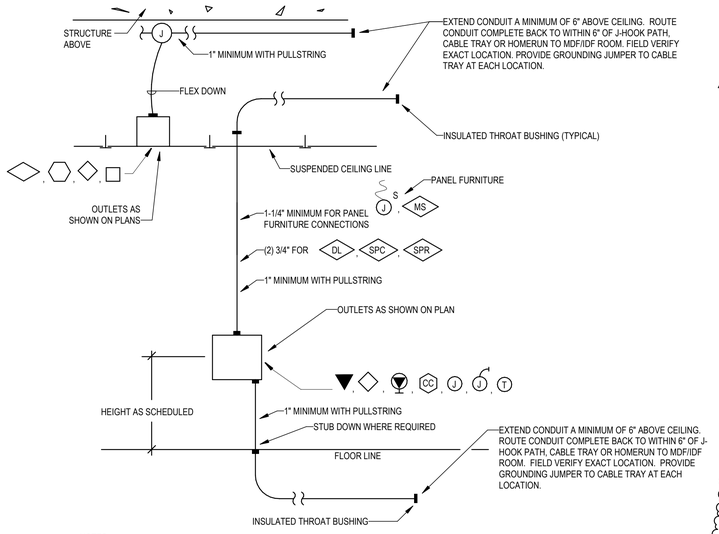
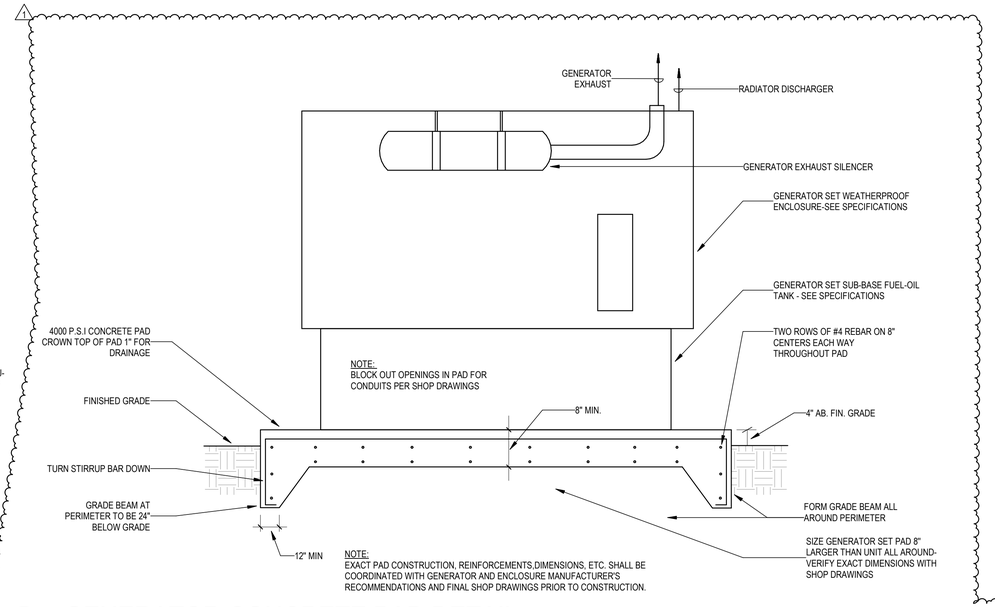


NOTES:

A. EXTEND CONDUIT TO NEAREST WIRING PATH UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM (IN WHICH CASE, STUB CONDUIT OUT ABOVE THE ROOM'S SUSPENDED CEILING). REFER TO GENERAL NOTES LOCATED ON ALL SYSTEM'S DRAWINGS. ACCESS CONTROL CONDUITS SHALL STUB ABOVE ACCESSIBLE CEILING FOR VENDOR FURNISHED ACCESS CONTROL CABLING, ETC.
B. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET NEC REQUIREMENTS FOR SUCH INSTALLATIONS.
C. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT
D. INSTALL TELECOMMUNICATION AND CABLE TV OUTLETS WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.
E. AT ALL ISLAND MILLWORK LOCATIONS, PROVIDE 2" CONDUIT.

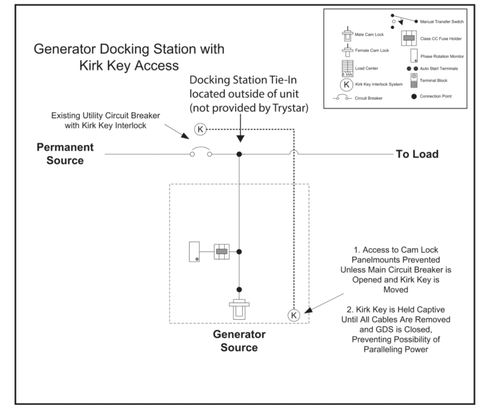
1 ROUGHING-IN DETAIL FOR STUB-OUTS

NO SCALE



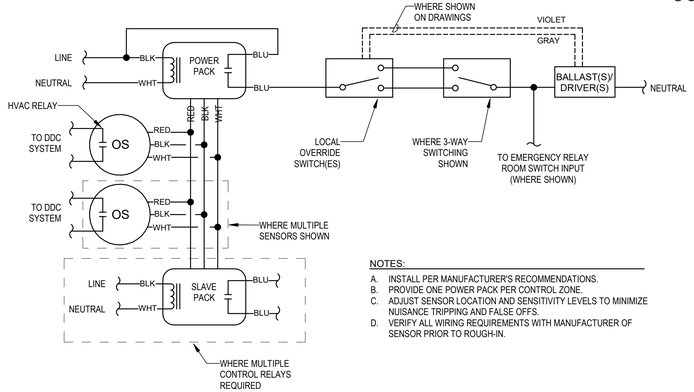
8 GENERATOR CONCRETE PAD DETAIL

NO SCALE



6 GENERATOR DOCKING STATION

NO SCALE

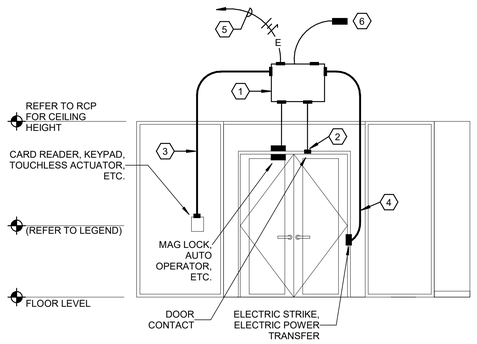


NOTES:

A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
B. PROVIDE ONE POWER PACK PER CONTROL ZONE.
C. ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.
D. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF SENSOR PRIOR TO ROUGH-IN.

2 OCC SENSOR - LOW VOLTAGE

NO SCALE



TAGGED NOTES:

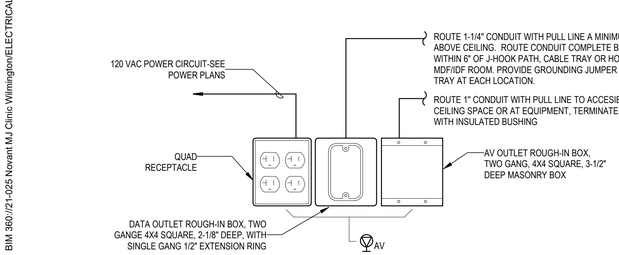
1. DOOR JUNCTION PANEL ABOVE DOOR PROVIDED AND INSTALLED BY THE ACCESS CONTROL VENDOR/CONTRACTOR. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR ALL LOCATIONS.
2. PROVIDE CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR DOOR POSITION CONTACT SWITCHES, AUTO OPERATORS, MAGNETIC LOCKS, ETC., PROVIDE ADDITIONAL CONDUITS AND LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
3. PROVIDE CONDUIT STUB-OUT FROM DOOR OPERATOR DEVICE 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR CARD READERS, TOUCHLESS ACTUATORS, KEYPADS, ETC. PROVIDE ADDITIONAL CONDUITS AT LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
4. PROVIDE CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR FOR ELECTRIC POWER TRANSFER, ELECTRIC STRIKE, ETC. PROVIDE ADDITIONAL CONDUITS AT LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
5. ROUTE 120V POWER TO ALL DOOR POWER SUPPLIES, AUTO DOOR OPERATORS, ETC. AS REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
6. PROVIDE BACKBOX AND CONDUIT CONNECTION FROM INFANT ABDUCTION SYSTEM TO 6" ABOVE CEILING AT DOOR LOCATION INDICATED. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.

GENERAL NOTES:

A. PROVIDE ALL NECESSARY BACKBOXES, CONDUITS AND ROUGH-INS REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR RISER REQUIREMENTS PER DOOR AND FOR EQUIPMENT ITEMS AND CONNECTIONS.
B. REFER TO DOOR HARDWARE SPECIFICATIONS SECTION FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL CONDUITS AND FINAL TERMINATIONS OF PATHWAYS AT ALL DOOR FRAMES, WALLS, BACKBOXES, ETC. AS REQUIRED FOR WIRING PATHWAYS.
C. PROVIDE 3/4" CONDUIT MINIMUM FOR ALL ACCESS CONTROL ROUGH-IN AND STUB-OUTS VIA 4" CONDUIT SLEEVE.

5 TYPICAL DOOR HARDWARE ROUGH-IN ELEVATION

NO SCALE

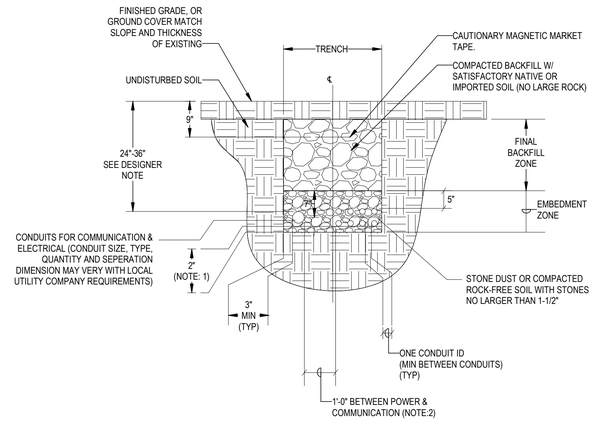


NOTES:

A. EXTEND CONDUIT TO ABOVE ACCESSIBLE CEILING OF SAME ROOM OR NEAR ASSOCIATED PROJECTOR OR AV EQUIPMENT CABINET. IN AREAS WITHOUT ACCESSIBLE CEILNGS, ROUTE DIRECTLY TO PROJECTOR OR AV EQUIPMENT CABINET.
B. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT
C. MOUNT AT 18" AFF, BOXES TO BE NO MORE THAN 2" APART.

3 AV OUTLET BOX DETAIL

NO SCALE



NOTE:

1. THE BOTTOM OF THE TRENCH MUST BE FREE OF ROCK, CINDERS OR SHARP OBJECTS.
2. SEPERATION BETWEEN ELECTRICAL CONDUITS AND COMMUNICATION CONDUITS SHALL BE 12" MINIMUM. GREATER SEPERATION SHALL BE MAINTAINED WHERE PRACTICAL. LOCAL COMPANIES MAY REQUIRE GREATER SEPARATION. THIS SHOULD BE DETERMINED IN ADVANCED BY THE SUBCONTRACTOR.
3. THE BACKFILLED TRENCH SHALL BE FREE OF PEAT, MARL, HIGHLY PLASTIC CLAY (CH PER ASTM D-2487), OR OTHER UNSUITABLE MATERIAL SUCH AS TRASH, DEBRIS, BRUSH, FROZEN MATERIAL OR ICE.
4. PLACE EMBEDMENT ZONE MATERIAL IN 3 OR MORE LIFTS AS SHOWN AND TAMP TO ELIMINATE VOIDS AND ASSURE FULL CONTACT WITH THE CONDUIT PERMIMETER.
5. PLACE FINAL BACKFILL ZONE MATERIAL IN 6-INCH LIFT AND COMPACT WITH MULTIPLE PASSES OF A MACHINE TAMPER, ROLLER OR VIBRATORY EQUIPMENT (FOR USE ON SAND AND GRAVEL ONLY) THAT IS SPECIFICALLY DESIGNED FOR SOIL COMPACTION. COMPACT UNTIL VOIDS ARE ELIMINATED AND THE COMPACTED SURFACE NO LONGER VISIBLY YIELDS BENEATH THE COMPACTION EQUIPMENT.
6. ALL CONDUITS SHALL BE BURIED A MINIMUM OF 24" BELOW GRADE TO TOP OF CONDUIT.

7 DIRECT BURIED CONDUIT

NO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 DANIEL A. BOLAND

221.064 10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

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E601

BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt
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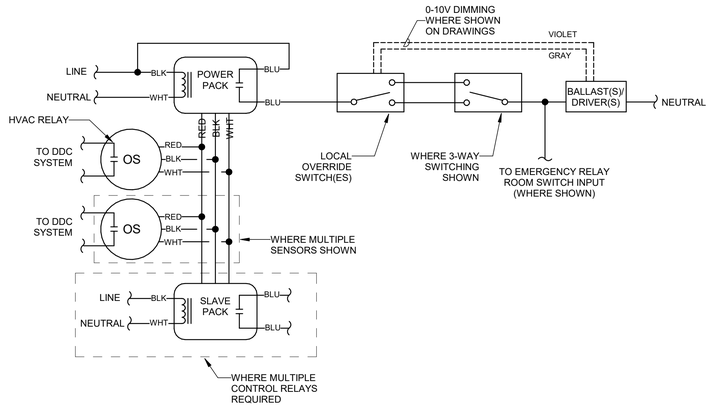
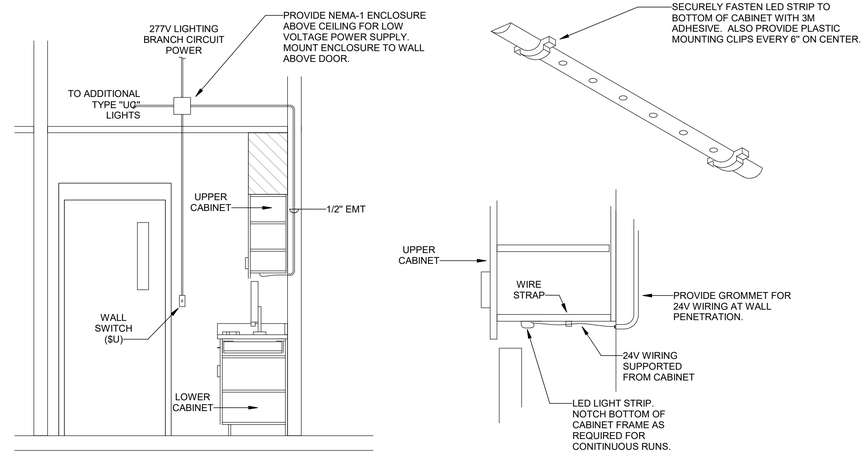


NOTES:

A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
B. PROVIDE ONE POWER PACK PER CONTROL ZONE.
C. ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.
D. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF SENSOR PRIOR TO ROUGH-IN.

1 OCC SENSOR - LOW VOLTAGE

NO SCALE

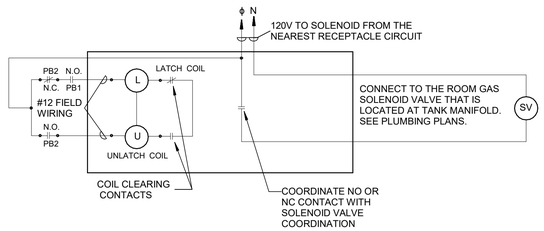


NOTES

A. PROVIDE LED STRIPS WITH ALL 24V FITTINGS REQUIRED.
B. LOW VOLTAGE POWER SUPPLY SHALL REQUIRE 277V HARDWIRED CONNECTION.
C. PROVIDE LINE VOLTAGE WALL SWITCH FOR ALL ROOMS WITH TYPE "UC" LIGHTING. SWITCH SHALL CONTROL ALL TYPE "UC" LIGHTS IN ROOM.
D. CONNECT TYPE "UC" LIGHTING TO 277V NORMAL POWER LIGHTING CIRCUIT IF PRESENT IN ROOM. OTHERWISE CONNECT TO 277V EMERGENCY POWER LIGHTING CIRCUIT IN ROOM.

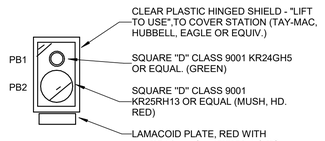
2 LIGHT FIXTURE TYPE "UC" INSTALLATION DETAIL

NO SCALE



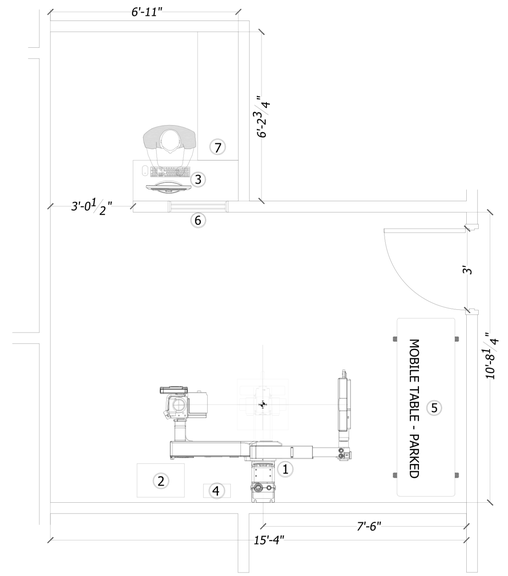
NOTES:

A. CONTACTORS SHALL BE SQUARE "D" OR EQUIVALENT CLASS 8903, NEMA 1 ENCLOSURE, MECHANICALLY HELD, PERMANENT MAGNET LATCH, 20A CONTACTS, SERIES LXG, MOUNT VERTICALLY AND PLUMB.



3 EMERGENCY SERVICE SHUT OFF WIRING DIAGRAM

NO SCALE



0 1' 2' 4' 8'

Scale - 1/4" = 1'

EQUIPMENT LEGEND

FUTURE
EXISTING
INSTALLED BY CUSTOMER/CONTRACTOR
FURNISHED BY CUSTOMER/CONTRACTOR
INSTALLED BY MXR
FURNISHED BY MXR

ITEM	DESCRIPTION DIM: W X D X H	WT. (LBS)	BTU'S /HR	DETAIL SHEET				
1	Konica KDR U-Arm Stand DIM: 83" x 59" x 84"	882	873	D1	•	•		
2	Sedecal-Compact 50KW Gen. Cabinet DIM: 23.0" x 15.0" x 27.0"	210	1280		•	•		
3	Konica/AERO DR Acquisition Console DR Workstation/Monitor/Keyboard	N/A	1500		•	•		
4	DR Detector Power Supply DIM: 12" x 6" x 3"	12	1040		•	•		
5	Mobile Table DIM: 78.7" x 25.6" x 27.0"	N/A	N/A		•	•		
6	Lead Window DIM: Determined by customer						•	•
7	Counter Top with PC Shelf below - customer designed						•	•

Recommended Ceiling Height - 9'0"
Minimum Ceiling Height - 8'0"

NH Michael Jordan Family Medical Clinic - Greenfield
1410 S. 15th Street
Wilmington, NC 28401

THE IMAGING SOLUTION COMPANY

Dwg No. 2205-37-A-P
Please Direct all Questions to:
Roger Chamberlain - 815-568-0107
Roger.Chamberlain@mxrimaging.com

NH Michael Jordan Family Medical Clinic
Greenfield
Konica 50KW KDR U-Arm

Page A1
Date 5/9/22

Drawn by: Cory Kimbrough

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NOT FOR CONSTRUCTION

CMTA
8801 J.M. Keynes Dr. Suite 240 Charlotte, NC 28262
704.376.7072 cmta.com
C-4556

Michael Jordan Family Medical Clinic - Wilmington

No.	Description	Date

80% CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

ISSUE DATE 06/17/2022
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-025

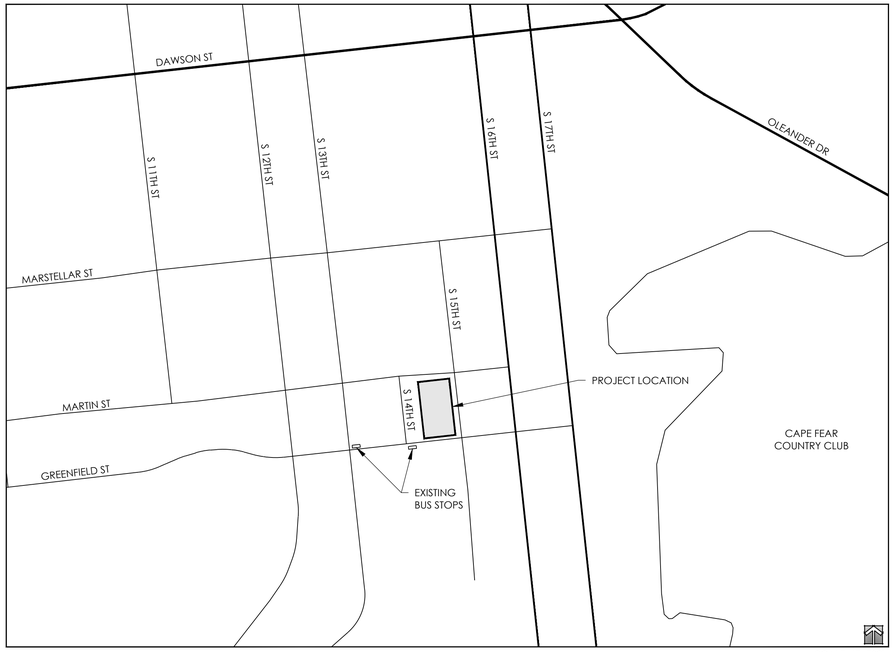
E602

BIM 360://21-025 Novant MJ Clinic Wilmington/ELECTRICAL 064.00 Novant MJ Clinic - Greenfield.rvt
6/17/2022 3:14:38 PM

NOVANT HEALTH FAMILY MEDICAL CLINIC- GREENFIELD

1423 GREENFIELD STREET
WILMINGTON | NORTH CAROLINA | 28401

PERMIT SET
FOR REVIEW ONLY
Submittal: OCTOBER 28, 2022



VICINITY MAP

SCALE: 1"=500'

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CS100	SITE PLAN
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CS400	TURN MANEUVER ENLARGEMENTS
CS500	SITE DETAILS
CS501	SITE DETAILS
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PERMITS	
PERMIT	PERMIT NUMBER
NEW HANOVER COUNTY EROSION CONTROL	-

PROJECT TEAM

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811 Know what's below. Call before you dig.
3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028948 DANIEL MILLER III
PRELIMINARY FOR REVIEW ONLY, NOT FOR CONSTRUCTION

TRANSYSTEMS CORPORATION CORPORATE SEAL F-0453 N.C.

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

COVER SHEET

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

G-001

10/28/2022 3:34 PM X:\2021\SEPI_285.00 MJ Clinic Greenfield SN\D\CAD\CDs\G-001.dwg

GENERAL EXISTING CONDITIONS NOTES

1. THE LOCATION AND SIZE OF EXISTING UTILITIES ARE SHOWN AS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTAL AND VERTICAL LOCATION AND THE PROTECTION OF ALL PUBLIC OR PRIVATE UTILITIES (SHOWN AND NOT SHOWN) WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE.
2. EXISTING SITE BOUNDARY AND TOPOGRAPHIC, UTILITY AND OFF-SITE ROADWAY SURVEY INFORMATION WAS TAKEN FROM SURVEY BY ACRO DEVELOPMENT SERVICES, PERFORMED SEPTEMBER 29,2021. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
3. THIS SITE IS/IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP NO. 3720312700K, DATED AUGUST 28, 2018 AS BEING WITHIN ZONE "X-OTHER AREA".

GENERAL DEMOLITION NOTES

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
3. IN GENERAL, FEATURES TO BE REMOVED UNDER THIS CONTRACT SHALL BE INDICATED ON THE DEMOLITION AND EROSION CONTROL PLANS:
   - ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS SHOWN ON THE PLANS TO ALLOW FOR NEW CONSTRUCTION;
   - ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN, AND TO BE PROTECTED FROM DAMAGE.

     THE CONTRACTOR SHALL CONTACT OWNER IN EVENT REMOVAL/MODIFICATION OF FEATURE(S) NOT PERMITTED BECOMES REQUIRED TO COMPLETE THE WORK. CONTRACTOR WILL WAIT FOR DIRECTION FROM OWNER PRIOR TO PROCEEDING.
4. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.
5. PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT DESIGNER IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS.
6. ALL MATERIAL TO BE DEMOLISHED, DEMOLITION DEBRIS AND OTHER EXCESS WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE AS DIRECTED BY THE OWNER, IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, AND REGULATIONS.
7. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
8. TREE PROTECTION FENCING SHALL BE INSTALLED AS REQUIRED PRIOR TO BEGINNING CLEARING OPERATIONS.
9. CLEAR AND GRUB ALL AREAS AS SHOWN ON THE PLANS AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION, PER SPECIFICATIONS AND DRAWINGS.
10. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL NOT SHOWN TO BE REMOVED ON THE PLANS SHALL BE REMOVED ONLY AFTER APPROVAL OF DESIGNER.
11. AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN SHARP VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA PRIOR TO OR AT THE SAME TIME AS SILT FENCE AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREE IS COMPLETE. NO STORAGE OF FILL, MATERIALS, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
12. ROOT PROTECTION ZONE EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX-FOOT RADIUS, WHICHEVER IS GREATER, NO DISTURBANCE ALLOWED WITHIN THE AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.
13. ALL EXISTING UNDERGROUND ELEMENTS/UTILITIES SHOWN SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO LAND DISTURBING ACTIVITIES. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CALL "811" FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.
14. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, NOTIFY DESIGNER AND REPAIR IMMEDIATELY AS DIRECTED.
15. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE : ± 64,693 SF / 1.48 AC
2. REFER TO PHASED EROSION AND SEDIMENT CONTROL PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING LAND CLEARING OR CONSTRUCTION ACTIVITIES.
3. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT, AS DIRECTED BY LOCAL AUTHORITIES. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED , AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
6. CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED.
7. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOW ON THE PLANS.
8. ALL 3:1 SLOPES SHALL BE STABILIZED WITH 'NO-MOW' NATURALIZED SEED MIX AND EROSION CONTROL MATTING.
9. INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. ALL EROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, FINAL PIPE INLET/OUTLET PROTECTIONS, AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL REMOVAL IS APPROVED AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND APPROVAL.
11. INSTALL SLOPE EROSION CONTROL MATTING ON TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES, TEMPORARY SEDIMENT BASINS AND TEMPORARY SEDIMENT CATCHES, PER MANUFACTURERS SPECIFICATIONS.
12. INSTALL SLOPE EROSION CONTROL MATTING AS TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF GROUNDCOVER ON ALL TEMPORARY SLOPES GREATER THAN 6:1. INSTALL PER MANUFACTURERS SPECIFICATIONS.
13. MINIMUM REQUIRED SLOPE PROTECTION FOR ALL SLOPES GREATER THAN 3:1:
   - LESS THAN 10' ELEVATION CHANGE: MINIMUM JUTE NETTING.
   - GREATER THAN 10' ELEVATION CHANGE: MINIMUM NORTH AMERICAN GREEN S75 EROSION CONTROL MATTING OR EQUIVALENT.
14. MAXIMUM GRADED SLOPE SHALL NOT EXCEED 2:1.
15. GROUND COVER STABILIZATION SHALL BE IN ACCORDANCE WITH NPDES PERMIT AND THE GROUND STABILIZATION TABLE ON SHEET CE130.
16. DURING ALL PHASES OF CONSTRUCTION GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED FOLLOWING THE COMPLETION OF ANY PHASE OF GRADING, ACCORDING TO THE GROUND STABILIZATION TABLE ON SHEET CE130.
17. TEMPORARY CONSTRUCTION FENCE SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY.
18. ALL STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
19. INITIAL STORMWATER INLET PROTECTION FOR NEW STORM STRUCTURES SHALL BE ROCK AND GRAVEL INLET PROTECTIONS.
20. ALL ROCK AND GRAVEL INLET PROTECTIONS FOR STRUCTURES WITHIN PAVED AREAS SHALL BE CONVERTED TO SILT BAG INLET PROTECTION TYPE DURING BASE PREPARATIONS FOR CURBING AND PAVEMENT.
21. IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY & ANY RELATED BORROW OR WASTE ACTIVITY, THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE SEDIMENTATION POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING ACT.
22. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
23. ALL NCDEQ INSPECTIONS SHALL BE SCHEDULED ONLINE AT: HTTPS://EDOCS.DEQ.NC.GOV/FORMS/NONDISCHARGE-BRANCH-SUBMITTAL-FORM

10/28/2022 3:34 PM X:\2021\SE21.285.00 MJ Clinic Greenfield St\LD\CAD\CDs\G-002.dwg

GENERAL SITE NOTES

1. ALL CONSTRUCTION, UNLESS SPECIFICALLY EXEMPTED BY STATE OR FEDERAL LAW, SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF WILMINGTON AND/OR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE STANDARDS AND SPECIFICATION, THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) STORMWATER DESIGN MANUAL, THE NORTH CAROLINA DEPARTMENT OF ENERGY, MINERAL AND LAND RESOURCES (NCDEMLR) EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE CASE OF A CONFLICT BETWEEN THE REQUIREMENTS, THE MORE RESTRICTIVE STANDARD SHALL CONTROL.
2. THE PROJECT LIMITS WILL BE FULLY COMPLIANT WITH THE NORTH CAROLINA ACCESSIBILITY CODES (ANSI 117.1-2009 AND CHAPTER 11 OF THE NCBC) UNLESS AND EXCEPT IN AREAS WHERE AN APPROVED STATEMENT FROM THE SITE ENGINEER, SURVEYOR, OR ARCHITECT VERIFIES THAT THE SITE CONDITIONS EXIST WHERE THE TOPOGRAPHY OF THE SITE IS EXTREME AND ONLY ALTERNATE METHODS OF COMPLIANCE ARE POSSIBLE.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOBSITE SAFETY, INCLUDING BUT NOT LIMITED TO TRENCH SAFETY, DURING ALL PHASES OF CONSTRUCTION. ALL WORK SHALL COMPLY WITH ALL STATE, LOCAL AND OSHA SAFETY STANDARDS. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO ALL CONSTRUCTION PERSONNEL AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND THE ADJOINING PROPERTY PROTECTED FROM DAMAGE.
4. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING OR CONTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
6. WATER, FIRE PROTECTION, ELECTRICAL, AND SEWER SERVICES MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT, WITH THE EXCEPTION OF COORDINATED TIE-INS.
7. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS, AND THE ACTUAL FIELD CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE DESIGNER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OS SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTORS RISK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREIN BEFORE BEGINNING CONSTRUCTION.
9. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAY'S (PUBLIC OR PRIVATE) PRIOR TO WORKING IN THESE AREAS.
10. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.
11. ALL AREAS OUTSIDE THE "LIMITS OF CONSTRUCTION" SHALL REMAIN UNDISTURBED AT ALL TIMES.
12. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE PROVIDED TO THE DESIGNER AND OWNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENT SHALL BE MADE WITHOUT WRITTEN PERMISSION.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE SCHEDULING OF, AND FEES RELATED TO, ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
14. THE ENGINEER/ARCHITECT/LANDSCAPE ARCHITECT/OWNER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
15. CONTRACTOR IS RESPONSIBLE FOR OBTAINING/ MAINTAINING PROPER SECURITY CREDENTIALS, AS REQUIRED, TO ALLOW FOR WORK ON SITE.
16. THE CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS, OR OTHER ADEQUATE PROTECTION, INCLUDING FLAG MEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH ALL APPLICABLE SAFETY STANDARDS. CONTRACTOR WILL BE RESPONSIBLE FOR ONSITE DUST CONTROL.
17. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
18. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR AND MAY BE PERFORMED USING A DIGITAL (CADD) FILE PROVIDED BY THE DESIGNER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE DIGITAL FILE AND THE CRITICAL STAKING DIMENSIONS SHOWN ON THE PLANS (I.E. PAVEMENT WIDTHS, CURB RADII, BUILDING SETBACKS, BUILDING FOOTPRINTS ETC.). ANY MODIFICATIONS MADE BY OTHERS TO THE DIGITAL FILE PROVIDED BY THE DESIGNER SHALL RENDER IT VOID.
19. BURYING CONSTRUCTION WASTE ON-SITE IS PROHIBITED.
20. NO PART OF THE DISTURBED SITE MAY BE LEFT UNCOVERED OR UNSTABILIZED ONCE CONSTRUCTION IS COMPLETE.
21. PLANT MATERIAL MUST BE NATIVE TO THE CLIMATE AND AREA.
22. TWELVE MONTH WARRANTY IS REQUIRED FOR ALL PLANTS AND MATERIALS.
23. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE CITY OF WILMINGTON STAFF, THE DESIGNER, AND THE OWNER.
24. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE NOTED.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN. CONTACT THE DESIGNER IF ANY DISCREPANCIES OCCUR.
26. GENERAL BUILDING DIMENSIONS ARE SHOW ON THE PLANS. SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC DIMENSIONS.
27. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SOIL TESTING IS PERFORMED AND THE RESULTS FORWARDED TO THE ENGINEER AND OWNER.
28. TESTING OF MATERIAL REQUIRED FOR THE CONSTRUCTION OF THE PARKING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LAB AND THE PAYMENT OF EACH TESTING SERVICE SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE NCDOT AND CITY OF WILMINGTON'S SPECIFICATIONS.
29. ALL PAVEMENT SUB GRADES SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 100% PF THE ASTM D-1557 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 8 INCH LIFTS. IN AREAS WHERE ROCK IS ENCOUNTERED AT FINAL SUB GRADE ELEVATION, THE EXPOSED ROCK SHALL BE TOPPED WITH A LEVELING COURSE OF SANDY CLAY OR CLAYEY SAND (P.I. BETWEEN 4 AND 15) AS NEEDED TO PROVIDE A SMOOTH SURFACE FOR PAVING.
30. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL INTERNAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, EXCEPT PARKING STALL STRIPING WHICH SHALL BE PAINTED 4" YELLOW.
31. FACES OF RADII ARE 5 FT UNLESS OTHERWISE SHOWN.
32. ALL PARKING SPACES SHALL BE 9' WIDE X 18' DEEP MIN.
33. ALL CURB OUTSIDE OF THE PUBLIC RIGHT-OF-WAY SHALL BE 24" CURB AND GUTTER.
34. WHERE SIDEWALKS OR WALKWAYS ABUT PARKING SPACES, THEY ARE TO BE A MINIMUM OF SIX (6.0) FEET WIDE (DIMENSIONED FROM BACK OF CURB TO BACK OF WALK) WITH RAMPS PROVIDED AT INTERVALS TO ALLOW ADEQUATE ACCESS TO PARKING LOT(S).
35. WHERE PROPOSED CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND CUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS AND SHAPES.
36. ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5 FEET. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.
37. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
38. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALES, ADA PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDINGS AS SHOWN ON THE PLANS. ALL PAINT FOR PAVEMENT MARKINGS SHALL ADHERE TO NCDOT STANDARDS.
39. ALL ADA RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT ADA REQUIREMENTS AND NORTH CAROLINA BUILDING CODE.
40. HANDRAILS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE.
41. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE, MAXIMUM SLOPE SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.
42. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL STAIRS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE.
43. ALL SIDEWALKS SHALL BE CONSTRUCTED OF CONCRETE. PROVIDE A NON-SKID FINISH TO ALL WALKWAYS.
44. ALL SIDEWALKS THAT CONNECT TO THE PUBLIC RIGHT-OF-WAY MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION, AND PEOPLE WITH MOBILITY DISABILITIES.
45. TEMPORARY AND PERMANENT PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE LATEST VERSION OF THE NC BUILDING CODE.
46. TYPICAL PAVEMENT SECTION DETAILS ARE SHOWN WITHIN THIS SET AND INTENDED TO BE A MINIMUM PAVEMENT SECTION REQUIREMENT. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED.
47. DOORS ARE INDICATED ON ALL BUILDINGS FOR WHICH ARCHITECTURAL DESIGN HAS OCCURRED.
48. TRAFFIC CONTROL ON PUBLIC STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THESE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND AS FURTHER DIRECTED BY THE CITY OF WILMINGTON AND NCDOT.
49. ANY REFERENCE TO A RETAINING WALL WITHIN THE PLAN SET IS FOR APPROVAL PERTAINING TO LOCATION, APPEARANCE, AND SIZE ONLY. ALL RETAINING WALLS MUST BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH THE CITY OF WILMINGTON DESIGN AND CONSTRUCTION ORDINANCES.
50. NO STRUCTURAL COMPONENT OF ANY RETAINING WALL CAN BE LOCATED WITHIN A RIGHT-OF-WAY OR EASEMENT.
51. EQUIPMENT AND PRODUCTS OTHER THAN SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COSTS RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT.
52. ALL SIGNAGE ASSOCIATED WITH THE PUBLIC STREET SYSTEM SHALL ADHERE TO MUTCD STANDARDS AND SPECIFICATIONS.

GENERAL UTILITY NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. CONTRACTOR IS RESPONSIBLE TO PERFORM ALL CONSTRUCTION ACTIVITIES IN A MANNER WHICH WILL NOT RESULT IN SANITARY SEWER OVERFLOWS OR BYPASSES TO THE WATERS OF THE STATE. IF SUCH DAMAGES ARE THE RESULT OF CONTRACTORS ACTIONS, THEY ARE RESPONSIBLE FOR ALL REMEDIES AND COSTS, INCLUDING FINES.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE RECORDS OF VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES CHARTED OR UNCHARTED WHICH MIGHT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
5. MINIMUM TRENCH WIDTH AT THE TOP OF PIPE SHALL BE AT LEAST 18 INCHES GREATER THAT THE OUTSIDE DIAMETER OF THE PIPE.
6. CONTRACTOR SHALL NOTIFY THE (MUNICIPAL JURISDICTION) INSPECTORS 72-HOURS PRIOR TO CONNECTING TO ANY EXISTING UTILITY MAIN.
7. UTILITY LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
9. COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
10. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
11. CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
12. ALL VERTICAL CLEARANCE MEASUREMENTS ARE TAKEN FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE.
11. INSTALL PROPOSED SEWER MAINS WITH A COVER OF NO LESS THAN *3-FT* TO FINISH GRADE IN NON-TRAFFIC AREAS, *5-FT* TO FINISH GRADE IN TRAFFIC AREAS.
12. INSTALL PROPOSED WATER MAINS WITH A COVER OF NO LESS THAN *3-FT* FROM THE FINISHED GRADE TO THE OUTSIDE DIAMETER OF THE PIPE.
13. INSTALL ALL UTILITIES TO PROVIDE REQUIRED HORIZONTAL AND VERTICAL CLEARANCES, AS FOLLOWS;
   - WHEN INSTALLING WATER AND/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE *10'*. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST *18"* ABOVE THE TOP OF THE SEWER AND MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER
   - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED *10'* ON EACH SIDE OF CROSSING MUST BE SPECIFIED AND INSTALLED TO WATERLINE SPECIFICATIONS
   - MAINTAIN *18"* MIN. VERTICAL SEPARATION AT ALL WATER MAIN AND RCP STORM DRAIN CROSSINGS; MAINTAIN *24"* MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER AND RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS AND A CONCRETE CRADLE HAVING *6"* (TYP.) MIN. CLEARANCE.
   - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER AND SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED
14. ALL CONCRETE ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 PSI.
15. ALL PROPOSED VALVES TO BE PLACED IN VALVE BOX PER DETAIL.
16. ALL PROPOSED WATER PIPES REQUIRE TRACER WIRE, WITH GAS AND OIL RESISTANT INSULATION, RUNNING ALONG THE CROWN OF THE PIPE IN CONTINUOUS LENGTHS. THE TRACER WIRE SHALL BE SECURED TO THE PIPE IN INTERVALS OF 10' (MAXIMUM) WITH TAPE. ONE TRACER WIRE AND MARKER BALLS, IF SPECIFIED, WILL BE INSTALLED ALONG EACH INDIVIDUAL PIPE AND WILL NOT BE INTERCONNECTED WITH TRACER WIRES FOR OTHER PIPES. EACH TRACER WIRE WILL BE EXPOSED IN A VALVE BOX, PER DETAIL, AND THE VALVE BOX WILL NOT BE SHARED WITH OTHER TRACER WIRES.
17. CONTRACTOR IS RESPONSIBLE TO PROVIDE A FULL JOINT OF PRESSURE PIPE (20') OR PROVIDE BELL JOINT RESTRAINT HARNESS IF BELL JOINTS ARE INSTALLED AT LESS THAN 18' FROM EACH BEND OR FITTING IN ADDITION TO ADHERING TO SPECIFIED COMPACTION REQUIREMENTS. IN ANY EVENT, THE CONTRACTOR IS SOLELY RESPONSIBLE TO ACHIEVE SATISFACTORY PRESSURE TESTS RESULTS FOR ALL PIPE LINES WITHOUT ADDITIONAL COST OR TIME.
18. A SUCCESSFUL PRESSURE TEST IS 150% OF OPERATION PRESSURE OR 150PSI (WHICHEVER IS GREATER) FOR TWO HOURS, IN ACCORDANCE WITH AWWA STANDARDS.
19. THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) HAS THE RIGHT TO INSPECT ALL PRIVATE WATER SYSTEMS.
20. THE CONTRACTOR SHALL PROTECT ALL SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES. THE CONTRACTOR SHALL REPAIR ANY AND ALL EXISTING UTILITIES DAMAGED DURING CONSTRUCTION, AT NO EXPENSE TO THE OWNER.
21. ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND.
22. REFER TO ARCHITECTURAL DRAWINGS FOR TIE-IN LOCATIONS AND ELEVATION OF ALL UTILITIES.
23. ALL BUILDING SHALL HAVE KNOX BOXES.
24. PROPOSED SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
25. PROPOSED SANITARY SEWER SERVICES OVER 20 FEET LONG WITH LESS THAN 3 FEET OF COVER REQUIRE DUCTILE IRON PIPE.
26. ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
27. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) REGULATED MATERIALS, INSTALLATION METHODS AND TESTING OF UTILITY MAINS AND SERVICES.
28. ALL BUILDINGS SHALL HAVE ADDRESSES POSTED ON THE BUILDING, IN A CLEARLY VISIBLE LOCATION.
29. ALL FDC'S SHALL HAVE SIGNAGE INDICATING WHICH BUILDING IT SERVES.
30. FIRE LANES SHALL BE MARKED THROUGHOUT THE SITE, INCLUDING THE FRONT AND REAR OF BUILDINGS AND IN FRONT OF THE FIRE HYDRANTS AND FDC'S.
31. ALL GAS METERS AND ELECTRICAL EQUIPMENT SUBJECT TO VEHICLE IMPACT SHALL BE PROTECTED BY BOLLARDS.
32. NO TREES, SHRUBS OR PLANTS SHALL BE WITHIN 3 FEET OF ALL FIRE DEPARTMENT EQUIPMENT.
33. SEWER MAIN EASEMENTS SHALL BE GRADED SMOOTH, FREE FROM ROCKS, BOULDERS, ROOTS, STUMPS, AND OTHER DEBRIS, AND SEEDED AND MULCHED UPON THE COMPLETION OF CONSTRUCTION.
34. ALL VALVES SHALL BE STRAINED IN BOTH DIRECTIONS IN A MANNER CONSISTENT WITH OPERATION AS A DEAD END USING STAINLESS STEEL RODDING AND BLOCKING ACCORDING TO STANDARD SPECIFICATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
35. THE CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
36. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OWNER AND POWER UTILITY PROVIDER FOR RELOCATION OF POWER SERVICE.
37. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING FEES AND INSPECTION CHARGES.
38. TEMPORARY ELECTRICAL SERVICE REQUIRED FOR PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR.
39. CONTRACTOR TO COORDINATE WITH OWNER FOR PLACEMENT OF PERMANENT POWER SERVICE

PERMITTING NOTES

1. CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER AND SEWER PERMITS MAY BE REQUIRED PRIOR TO COMMENCING UTILITY WORK.
2. NEW HANOVER EROSION CONTROL PERMIT, LAND DISTURBANCE PERMIT, AND CERTIFICATE OF COMPLIANCE REQUIRED PRIOR TO COMMENCING GRADING OPERATIONS.
3. NCDOT DRIVEWAY PERMIT, TWO PARTY, AND THREE-PARTY ENCROACHMENT AGREEMENT IS REQUIRED PRIOR TO COMMENCING WORK WITHIN THE RIGHT-OF-WAY.

GENERAL STORMWATER NOTES

1. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL STORM DRAIN STRUCTURES (CURB INLETS, DRAIN INLETS, MANHOLES ETC.) AND ALL UTILITIES CROSSING THE STORM SEWER PIPE SYSTEM.
2. THE STORM DRAIN CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM DRAIN SYSTEM.
3. ALL RCP STORM DRAIN PIPES SHALL BE MINIMUM CLASS III REINFORCE CONCRETE PIPE, UNLESS OTHERWISE NOTED.
4. THE LOCATIONS OF STORM DRAIN STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE. WHERE PROPOSED STORM DRAIN PIPING TIES TO EXISTING STRUCTURES, PIPES, SWALES, ETC., THE CONTRACTOR SHALL FIELD ADJUST PROPOSED STORM DRAIN PIPES TO MATE THE LOCATION OF THESE EXITING FEATURES.
5. ALL ROOF DRAINS SHALL BE AT MINIMUM 6" PVC (SCH 40) @ 1% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
6. THE CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
7. UPON COMPLETION OF THE PROJECT, AND BEFORE CERTIFICATE OF OCCUPANCY SHALL BE GRANTED, THE APPLICANT SHALL CERTIFY THAT THE COMPLETED PROJECT IS IN ACCORDANCE WITH THE APPROVED STORMWATER MANAGEMENT PLANS AND DESIGNS, AND SHALL SUBMIT ACTUAL "AS-BUILT" PLANS FOR ALL STORMWATER MANAGEMENT FACILITIES OR PRACTICES AFTER FINAL CONSTRUCTION IS COMPLETED."

GENERAL GRADING NOTES

1. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART 'P' APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED TO CONTRACTOR PRIOR TO EXCAVATION.
2. CONTRACTOR SHALL NOTIFIY "NC811" (811) OR (1-800-632-4949) AT LEAST THREE FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATE SERVICES INDEPENDENT OF "811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
3. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SURVEYING FOR THE LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
4. ALL DIMENSIONS AND GRADES SHOWN ON THE PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5. PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.
6. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED AT THE GUTTERLINE, UNLESS OTHERWISE SHOWN.
7. ACCESSIBLE ROUTES AND PARKING AREAS MUST BE PROVIDED IN ACCORDANCE WITH THE CURRENT ADA REQUIREMENTS. THE TURNING SLOPE OF WALKING SURFACES CANNOT BE STEEPER THAN 1:20 AND CROSS SLOPE OF WALKING SURFACES CANNOT BE STEEPER THAN 1:48, WHICH INCLUDES CROSSWALKS. ACCESSIBLE PARKING SPACES MUST BE PROPERLY DESIGNED TO SHOW THAT FULL COMPLIANCE IS BEING PROVIDED TO CURRENT ADA REQUIREMENTS)NUMBER, LOCATION ETC.).
8. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
9. THE GRADING CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
10. THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED SANITARY SEWER, WATER MAIN, GAS AND WIRE UTILITY VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE ELEVATIONS AND SLOPES.
11. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
12. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION SHALL JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY DESIGNER IF DISCREPANCIES OCCUR.
13. ALL MATERIALS USED FOR BACKFILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER NON-COMPATIBLE SOIL TYPE OR MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS ND REFUSE DEBRIS DERIVES FROM ANY SOURCE.
14. MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURE, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST AS SET OUT IN ASTM STANDARD D-1557. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH THE CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEERING REPRESENTING THE LABORATORY.
15. PLACEMENT OF ANY FILL MATERIAL MUST BE CONDUCTED UNDER THE OBSERVATION OF A QUALIFIED LICENSED GEOTECHNICAL ENGINEER.
16. SOIL UNDER BUILDINGS, PAVED AREAS, AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
17. UPON THE COMPLETION OF THE EARTHWORK ACTIVITIES, THE *CITY OF WILMINGTON* MUST BE PROVIDED WITH A FINAL GRADING REPORT THAT INCLUDES THE CORRESPONDING COMPACTION TEST RESULTS AND CERTIFIES THE TYPE OF TILL MATERIAL AND ITS PROPER PLACEMENT.
18. REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD AND PAVING SUB GRADE INFORMATION.
19. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR BLASTING ROCK IF BLAST ROCK IS ENCOUNTERED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL BLASTING AND SAFETY REQUIREMENTS.
20. EASEMENTS ACROSS SLOPED AREAS SHALL BE GRADED UNIFORMLY ACROSS THE SLOPE TO NO STEEPER THAT 5:1 RATIO.
21. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
22. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

CITY OF WILMINGTON NOTES

FIRE PROTECTION

1. CONTRACTOR SHALL MAINTAIN AN ALL -WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
3. A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVEWS FOR PRACTICAL USE)
4. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
5. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE FDC'S OR FIRE HYDRANTS. A 3-FT CLEAR SPACE SHALL ALWAYS BE MAINTAINED AROUND THE CIRCUMFERENCE OF HYDRANTS AND FDC'S.
6. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
7. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION. (910) 343-0696
8. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
9. ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM, MUST BE ELECTRICALLY SUPERVISED.
10. EXISTING WHEELCHAIR RAMPS SHALL BE RETROFITTED WITH FLEXIBLE SURFACE-APPLIED DETECTABLE WARNING MATS IF NO DETECTABLE WARNING PAVERS OR MATS EXIST.

811 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA PROFESSIONAL SEAL 028948 ENGINEER DANIEL MILLER

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TRANSYSTEMS CORPORATION CORPORATE SEAL F-0453 N.C.

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

GENERAL NOTES

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

G-002

LEGEND

EXISTING LINE TYPE	DESCRIPTION	PROPOSED LINETYPE
	PROPERTY LINE	
	EASEMENT	
	BUFFER	
	SETBACK	
	TREELINE	
	LIMITS OF DISTURBANCE	LOD
	DEMOLITION DESIGNATION	X X X X X X
X	FENCE	X
	CHAINLINK FENCE	
	WOOD FENCE	
	GUARDRAIL	
	CABLE GUARDRAIL	
	ACCESSIBLE ROUTE	
39	MINOR CONTOUR	39
40	MAJOR CONTOUR	40
	SWALE CENTERLINE	
SD	STORM DRAIN PIPE	
RD	ROOF DRAIN	RD
UD	UNDER DRAIN	UD
FD	FOUNDATION DRAIN	FD
UGE	UNDERGROUND ELECTRIC	UGE
OHE	OVERHEAD ELECTRIC	OHE
FO	FIBER OPTIC	F/O
CATV	OVERHEAD CABLE TV	CATV
CATV	UNDERGROUND CABLE TV	CATV
OHT	OVERHEAD TELEPHONE	
UGT	UNDERGROUND TELEPHONE	
G	GAS LINE	G
GS	GAS SERVICE	GS
SSFM	SANITARY SEWER FORCEMAIN	SSFM
SS	SANITARY SEWER GRAVITY MAIN	SS
	SANITARY SEWER LATERAL	SSL
WL / W	WATER LINE	WL / W
	WATER SERVICE	WS
CHWR	CHILLED WATER SUPPLY	CWS
CHWR	CHILLED WATER RETURN	CHWR
HWS	HOT WATER SUPPLY	HWS
HWR	HOT WATER RETURN	HWR
	TEMPORARY CONSTRUCTION EASEMENT	TCE
	TEMPORARY CONSTRUCTION FENCE	TCF
	LIMITS OF GRADING	LG
	BAFFLE	BF
	SILT FENCE	SF
	SUPER SILT FENCE	SSF
	TREE PROTECTION FENCE	TPF
	COMBINATION TREE PROTECTION/SILT FENCE	TP/SF
	TIME OF CONCENTRATION	
	TEMPORARY DIVERSION DITCH	TD
	TEMPORARY SLOPE DRAIN	SD
	TEMPORARY DRAIN PIPE/CULVERT	

EXISTING SYMBOL	DESCRIPTION	PROPOSED SYMBOL
mb	MAILBOX	MB
bol	BOLLARD	BOL
f	FLAG POLE	F
	SIGN, RELOCATED	
	SIGN	
	BIKE RACK	
	TRUNCATED DOME	
	ADA MARKING	
	PAVEMENT MARKING DIRECTIONAL ARROWS	
	PAVEMENT MARKING STOP BAR	
	PARKING COUNT	12
	EXISTING CONIFER TREE	
	EXISTING DECIDUOUS TREE	
x 1.00 EG 1.00	SPOT ELEVATION	FG 1.00
	GRADE ARROW	
D	STORM MANHOLE	
	STORM JUNCTION BOX	
sdco	STORM CLEANOUT	
cb	CURB INLET	
	DOUBLE CURB INLET	
di	DROP INLET	
yi	YARD INLET	
	FLARED END SECTION	
dxss #	STORM STRUCTURE TAG	SD #
	POWER POLE	
	GUY POLE	
	GUY WIRE	
	LIGHT POLE	
et	TRANSFORMER	ET
hh	ELECTRIC HANDHOLE	HH
tp	TELEPHONE PEDISTAL	
catv	CABLE BOX	CATV
	FIBEROPTIC MARKER	
FOB	FIBEROPTIC PEDISTAL	FOB
gm	GAS MARKER	GM
gm	GAS METER	GM
gv	GAS VALVE	GV
S	SEWER MANHOLE	SS
sco	SEWER CLEANOUT	CO
	GREASE TRAP	
dxss #	SEWER STRUCTURE TAG	SS #
wv	WATER VALVE	
pv	POST INDICATOR VALVE	
wm	WATER METER	
bfp	FIRE HYDRANT	
	BACKFLOW PREVENTER	Z
	BENDS	
	WYE	
	TEE	
	CROSS	
	CAP	
icv	REDUCER	
	IRRIGATION CONTROL VALVE	ICV
fdc	SPRINKLER HEAD	
	FIRE DEPARTMENT CONNECTION	
	THRUST BLOCKING	
	AIR RELEASE VALVE	AR

EXISTING SYMBOL	DESCRIPTION	PROPOSED SYMBOL
	SILT FENCE OUTLET	
	WATTLE	
	BLOCK AND GRAVEL INLET PROTECTION	
	HARDWARE CLOTH AND GRAVEL INLET PROTECTION	
	SILT SACK INLET PROTECTION FILTER	
	SILT SOCK INLET PROTECTION	
	HORSESHOE PIPE PROTECTION	
	TEMPORARY DRAIN PIPE OUTLET STABILIZATION	
	CONSTRUCTION ENTRANCE	
	CONSTRUCTION ENTRANCE WITH EXIT WASH RACK	
	DEWATERING BAG	
	CONCRETE WASHOUT	CWA

EXISTING PATTERN	DESCRIPTION	PROPOSED PATTERN
	GRAVEL	
	CONCRETE	
	CONCRETE PVMT	
	HEAVY DUTY CONCRETE	
	LIGHT DUTY CONCRETE	
	ASPHALT	
	HEAVY DUTY ASPHALT	
	BRICK PAVE	
	EARTH	
	RIPRAP	
	WETLANDS	
	REINFORCING MAT LINING	

LIST OF ABBREVIATIONS

APPROX	APPROXIMATE
AD	ANGLE DEVIATION
ADA	AMERICAN DISABILITIES ACT
Ac OR AC	ACRE
Bndy	BOUNDARY
BC	BOTTOM OF CURB
BOC	BACK OF CURB
BOW	BACK OF WALK
BM	BOOK OF MAPS
BPE	BUILDING PAD ELEVATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BOTTOM OF WALL
C&G	CURB AND GUTTER
CB	CATCH BASIN
CI	CURB INLET
C-I-P	CAST-IN-PLACE
cfs	CUBIC FOOT PER SECOND
CL	CONTROL LINE/CENTER LINE
CO	CLEANOUT
Conc.	CONCRETE
CONN	CONNECTION
Cu. Ft (cf)	CUBIC FOOT
Cu Yd (cy)	CUBIC YARD
Dble CB	DOUBLE CATCH BASIN
D	DELTA
DA	DRAINAGE AREA
DB	DEED BOOK
dbh	DIAMETER AT BREAST HEIGHT
DG	DESIGN GROUND
DI	DRAIN INLET
DIP	DUCTILE IRON PIPE
DMH	DRAIN MANHOLE
DOJ	DEPARTMENT OF JUSTICE
D/S	DOWNSTREAM
DWG	DRAWING
DWL	DOUBLE WHITE LINE
DYL	DOUBLE YELLOW LINE
E	EAST
ECM	EXISTING CONCRETE MONUMENT
EIA	EXISTING IRON AXLE
EIP	EXISTING IRON PIN
EIR	EXISTING IRON ROD
EG	EXISTING GRADE
ELEV, EL	ELEVATION
ELIP	ELLIPTICAL
EOA	EDGE OF ASPHALT
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
ESC	EROSION AND SEDIMENT CONTROL
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX OR EXIST	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHA	FIRE HYDRANT ASSEMBLY
FOC	FACE OF CURB
Ft, OR FT	FEET
FUT	FUTURE
GS	GENERAL STATUTE
GV	GATE VALVE
HC	HANDICAPPED
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HGL	HYDRAULIC GRADE LINE
HORIZ.	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
I.D.	IDENTIFICATION
INV	INVERT
IPF	IRON PIPE FOUND
L OR LEN	LENGTH
Lbs	POUNDS
LP	LOW POINT
L_W	WEIR LENGTH
Max	MAXIMUM
MH	MANHOLE
Min	MINIMUM
N OR NO	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NCDEQ	NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY
NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/S	OFFSET
OUTLT	OUTLET
PI	POINT OF INTERSECTION
Pg OR PG	PAGE
PL	PROPERTY LINE
POC	POINT OF CONCENTRATION
POD	POINT OF DISCHARGE
PREC	PRECAST
PROP	PROPOSED
PVC	POLY(VINYL CHLORIDE)
PVI	POINT OF VERTICAL INFLECTION
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PS	PUMP STATION
PVC	POLY VINYL-CHLORIDE PIPE
Qty	QUANTITY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOFDRAIN
RGRCP	RUBBER GASKET RCP
ROW	RIGHT-OF-WAY
S OR SO	SOUTH
SA	SURFACE AREA
SAN OR SS	SANITARY SEWER
SCH	SCHEDULE
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SF	SILT FENCE
SHLD	SHOULDER
SP	SPACE
SSF	SUPER SILT FENCE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STRM	STORM
STMH	STORM MANHOLE
Sq. ft (sf)	SQUARE FOOT
Sq Yd(sy)	SQUARE YARD
SWL	SINGLE WHITE LINE
SYL	SINGLE YELLOW LINE
T	THICKNESS
TBA	TO BE ABANDONED
TBD	TO BE DETERMINED
TBR	TO BE REMOVED
TC	TOP OF CURB
TOC	TIME OF CONCENTRATION
TPF	TREE PROTECTION FENCE
TIP	TRENCH INLET PROTECTION
TSSB	TEMPORARY SEDIMENT SKIMMER BASIN
TST	TEMPORARY SEDIMENT TRAP
TW	TOP OF WALL
Typ. OR TYP	TYPICAL
U/S	UPSTREAM
VERT	VERTICAL
VC	VERTICAL CURVE
YI	YARD INLET
W	WEST
WD	WIDE OR WIDTH

NOTE: THIS LIST MAY NOT BE INCLUSIVE OF ALL ABBREVIATIONS USED WITHIN THE CONSTRUCTION DRAWING SET. IF THE CONTRACTOR IS UNSURE OF AN ABBREVIATION OR TERMINOLOGY USED WITHIN THIS CONSTRUCTION SET, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ENGINEER FOR CLARIFICATION. THE ENGINEER OR THE OWNER WILL NOT BE HELD LIABLE FOR MISINTERPRETATION OF THE CONSTRUCTION PLAN SET BY THE GENERAL CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS.

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NORTH CAROLINA ENGINEERING SEAL 028948 ENGINEER DANIEL MILLER WILMINGTON — FOR REVIEW ONLY, NOT FOR CONSTRUCTION

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

PROJECT LEGEND & ABBREVIATIONS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

G-003

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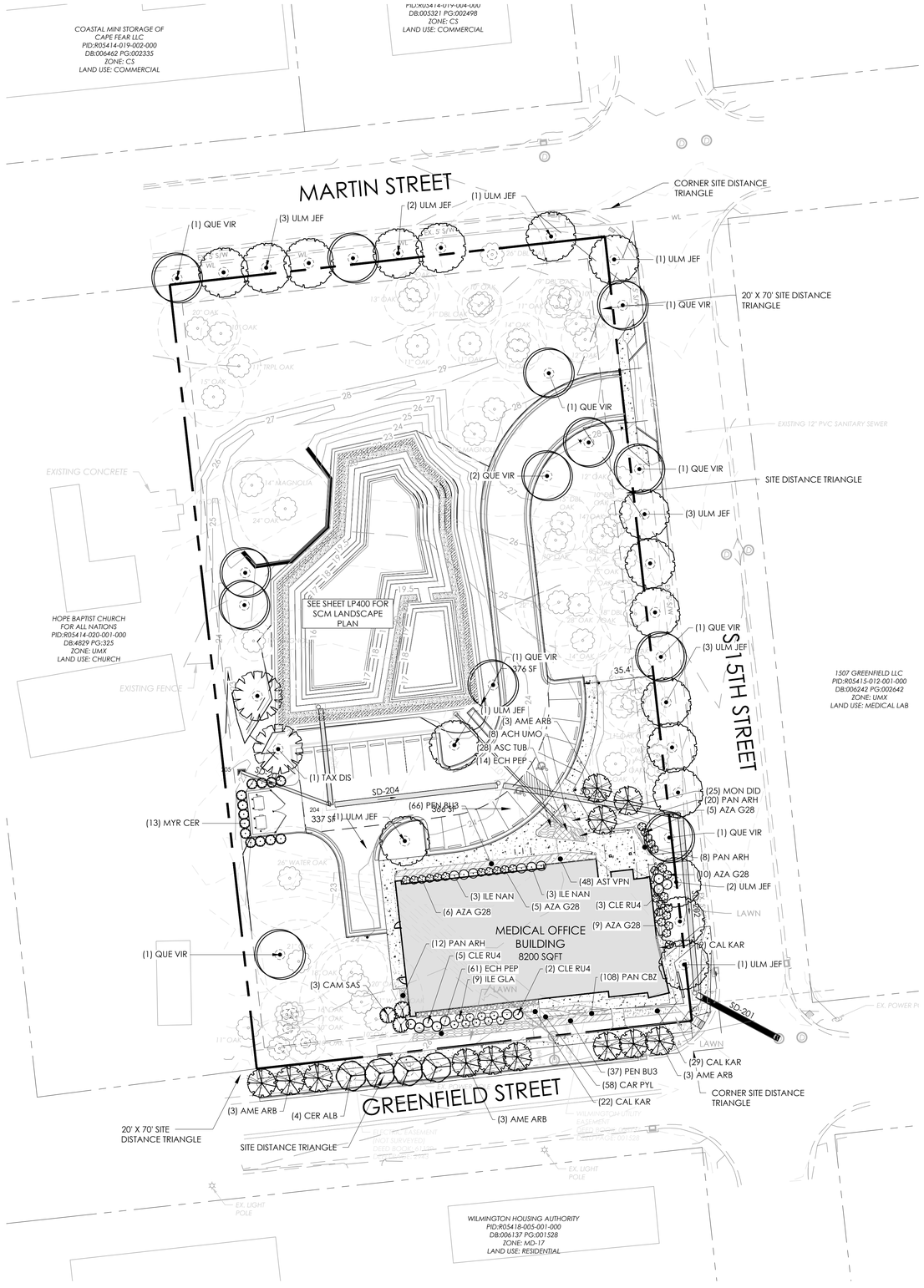

OVERALL LANDSCAPE PLANTING PLAN

Scale: 1" = 30'

PLANT SCHEDULE- TREES					
DECIDUOUS TREES	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	REMARKS
AME ARB	12	AMELANCHIER ARBOREA / DOWNY SERVICEBERRY	2" CAL.	B&B	SINGLE STRAIGHT LEADER
CER ALB	4	CERCIS CANADENSIS 'ALBA' / WHITE EASTERN REDBUD	2" CAL.	B&B	
TAX DIS	2	TAXODIUM DISTICHUM / BALD CYPRESS	3" CAL.	B&B	SINGLE STRAIGHT LEADER
ULM JEF	17	ULMUS AMERICANA 'JEFFERSON' / JEFFERSON AMERICAN ELM	3" CAL.	B&B	SINGLE STRAIGHT LEADER
EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	REMARKS
QUE VIR	13	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK	3" CAL.	B&B	SINGLE STRAIGHT LEADER

PLANT SCHEDULE- SHRUBS					
SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	REMARKS
AZA G28	29	AZALEA X 'GIRARD'S ROSE' / GIRARD'S ROSE AZALEA	3 GAL.	POT	
CAM SAS	3	CAMELLIA SASANQUA / SASANQUA CAMELLIA	5 GAL.	POT	FULLY ROOTED
CLE RU4	10	CLETHRA ALNIFOLIA 'RUBY SPICE' / RUBY SPICE SUMMERSWEET	3 GAL.	POT	FULLY ROOTED
ILE GLA	9	ILEX GLABRA / INKBERRY HOLLY	3 GAL.	POT	FULLY ROOTED
ILE NAN	6	ILEX VOMITORIA 'NANA' / DWARF YAUPON HOLLY	3 GAL.	POT	FULLY ROOTED
MYR CER	13	MYRICA CERIFERA / WAX MYRTLE	5 GAL.		MIN. HEIGHT 3'

PLANT SCHEDULE					
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING
ACH UMO	8	ACHILLEA X 'SASSY SUMMER LEMON' / SASSY SUMMER LEMON YARROW	4"	POT	24" o.c.
ASC TUB	28	ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED	4"	POT	18" o.c.
AST VPN	48	ASTILBE CHINENSIS 'VISION IN PINK' / VISION IN PINK CHINESE ASTILBE	4"	POT	18" o.c.
CAL KAR	60	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS	1 GAL.	POT	24" o.c.
CAR PYL	58	CAREX PENSYLVANICA / PENNSYLVANIA SEDGE	1 GAL.	POT	12" o.c.
ECH PEP	75	ECHINACEA X 'PURPLE EMPEROR' / PURPLE EMPEROR CONEFLOWER	1 GAL.	POT	24" o.c.
MON DID	25	MONARDA DIDYMA / BEE BALM	4"	POT	18" o.c.
PAN CBZ	108	PANICUM VIRGATUM 'CAPE BREEZE' / CAPE BREEZE SWITCH GRASS	1 GAL.	POT	12" o.c.
PAN ARH	40	PANICUM VIRGATUM 'PURPLE TEARS' / PURPLE TEARS SWITCH GRASS	4"	POT	18" o.c.
PEN BU3	103	PENNISETUM ALOPECUROIDES 'BURGUNDY BUNNY' / BURGUNDY BUNNY DWARF FOUNTAIN GRASS	1 GAL.	POT	24" o.c.

LANDSCAPE REQUIREMENTS		
STREETSCAPE LANDSCAPE DIMENSIONS (UDO 18-319)	**REQUIRED**	**PROVIDED**
PROJECT IS IN UMX ZONING DISTRICT AND IS THEREFORE EXEMPT FROM STREETSCAPE REQUIREMENTS		
STREET TREES (UDO 18-204)	**REQUIRED**	**PROVIDED**
WITHIN UMX ZONING, 1 STREET TREE PER 30 LF OF STREET FRONTAGE		
GREENFIELD STREET (219.7') OVERHEAD POWERLINES EXIST	219.7 / 30 = 8 CANOPY TREES OR 24 UNDERSTORY TREES	10 UNDERSTORY TREES PROVIDED DUE TO SIGHT DISTANCE TRIANGLES, DRIVEWAY CONNECTION, UTILITY AND STORM CONNECTIONS
SOUTH 15TH STREET (396')	396 / 30 = 14 CANOPY TREES	MET WITH EXISTING VEGETATION. NO NEW TREES PROPOSED IN ORDER TO REDUCE IMPACT TO CRITICAL ROOT ZONES OF EXISTING TREES
MARTIN STREET (219.4')	219.4 / 30 = 8 CANOPY TREES	8 CANOPY TREES
PARKING INTERIOR LANDSCAPING (UDO 18-321)	**REQUIRED**	**PROVIDED**
TREE ISLANDS	1 / 10 PARKING SPACES = 3	6
CANOPY SHADING PERCENTAGE	13%	27.66%
FOUNDATION PLANTINGS (18-490)	**REQUIRED**	**PROVIDED**
area of building face adjacent to parking multiplied by 12%	152' X 24' = 3,648 SF 3,648 SF X 12% = 437.8SF	618 SF

30' 15' 0 30'

SCALE: 1" = 30'

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1315 LAURENE E. DICKSON

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

LANDSCAPE PLAN

ISSUE DATE 10/28/2022

CHECKED L. DICKSON

SHEET BY J. ADRIATICO

PROJECT NUMBER 21-025

LP100

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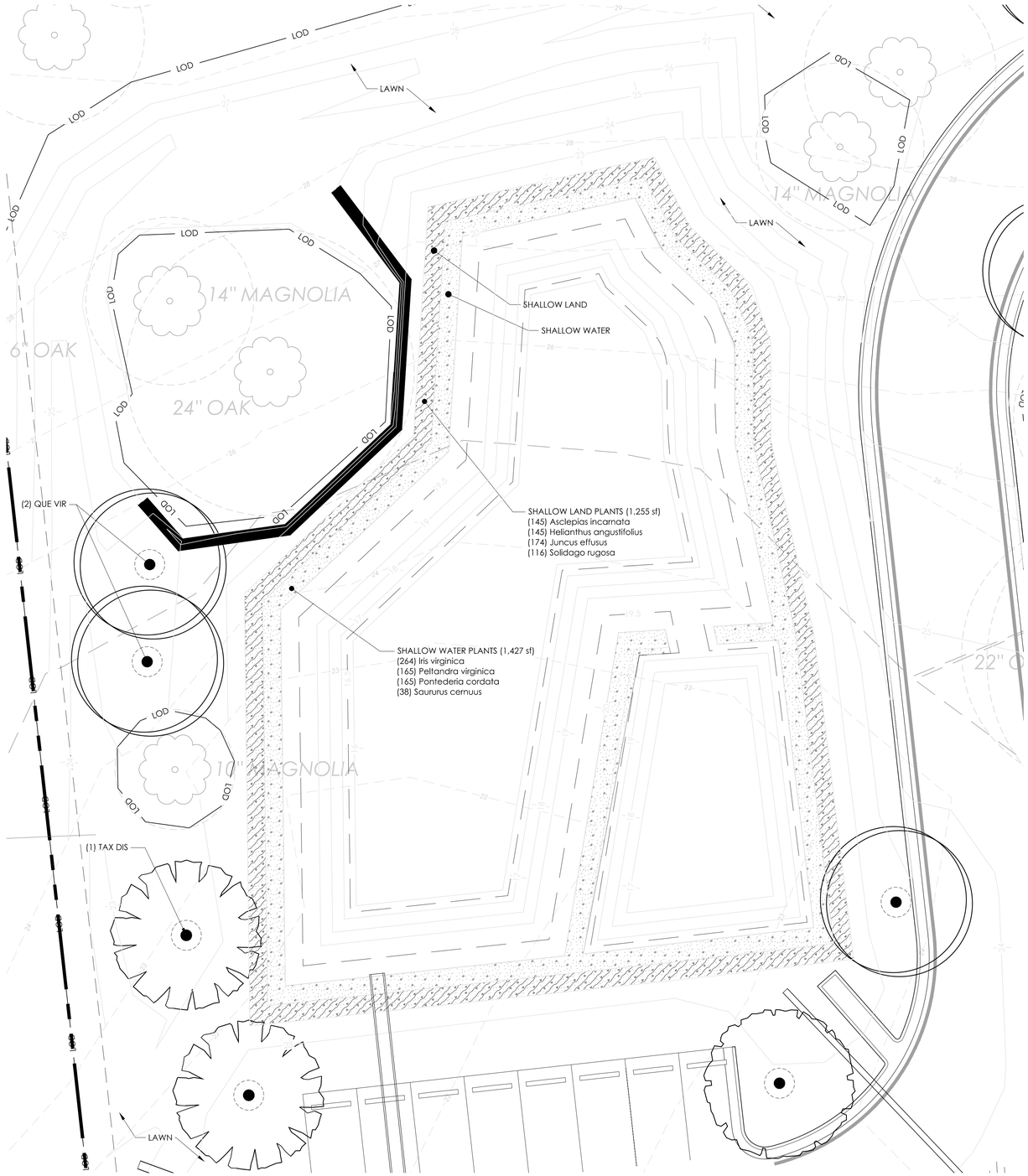

SCM LANDSCAPE PLAN
Scale: 1" = 10'

SCM PLANT SCHEDULE

	SHALLOW LAND PLANTS	1,255 SF		
	ASCLEPIAS INCARNATA / SWAMP MILKWEED	145	4", POT	25% @ 18" oc
	HELIANTHUS ANGUSTIFOLIUS / SWAMP SUNFLOWER	145	4", POT	25% @ 18" oc
	JUNCUS EFFUSUS / COMMON RUSH	174	4", POT	30% @ 18" oc
	SOLIDAGO RUGOSA / WRINKLELEAF GOLDENROD	116	4", POT	20% @ 24" oc
	SHALLOW WATER PLANTS	1,427 SF		
	IRIS VIRGINICA / BLUE FLAG IRIS	264	4", POT	40% @ 18" oc
	PELTANDRA VIRGINICA / ARROW ARUM	165	4", POT	25% @ 18" oc
	PONTEDERIA CORDATA / PICKEREL WEED	165	4", POT	25% @ 18" oc
	SAURURUS CERNUUS / LIZARD'S TAIL	38	4", POT	10% @ 24" oc

NOTES:

1. PLANTS LISTED IN SCHEDULE ABOVE ARE FOR THE PLANTS SHOWN ON THIS SHEET WITHIN THE SCM. FOR FULL PLANTING PLAN, SEE SHEET LP100.
2. BIO-RETENTION AREA TO BE MULCHED WITH 3" OF TRIPLE SHREDDED HARDWOOD MULCH. MULCH SHALL BE UNIFORMLY PLACED.
3. MULCH SHOULD BE FREE OF WEED SEEDS, SOIL, ROOTS, AND OTHER MATERIAL THAT IS NOT BOLE OR BRANCH WOOD OR BARK.
4. SEE CD400 FOR FURTHER INFORMATION REGARDING CONSTRUCTION OF SCM.

SCM LANDSCAPE REQUIREMENTS		
Required per NCDENR Stormwater BMP Manual	**MINIMUM REQUIRED**	**PROVIDED**
Minimum planting density of 400 stems / acre	8,674 SF = .19 AC .19 x 400 = 76 Stems	7 TREES 77 SHRUBS 1,105 GROUNDCOVERS

30' 15' 0 30'
SCALE: 1" = 30'

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PERMIT SET

SCM LANDSCAPE PLAN

ISSUE DATE 10/28/2022
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LP400

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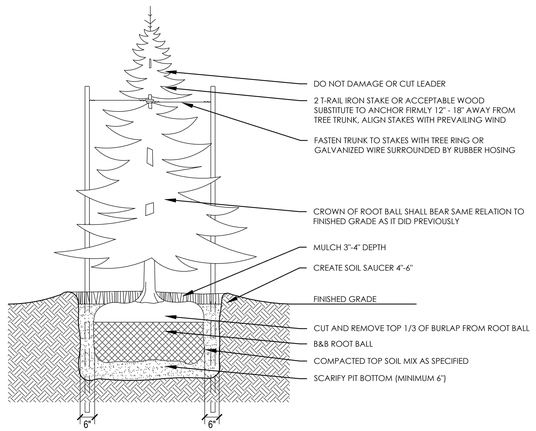
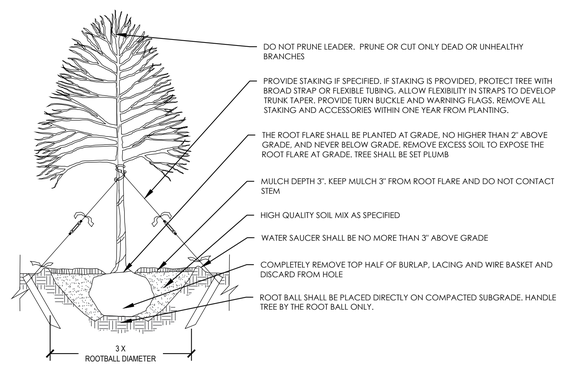


NOTES:

1. DO NOT DAMAGE ROOT BALL INSTALLING STAKES
2. WATER THOROUGHLY AFTER INSTALL
3. REMOVE TREE RINGS AND STAKES TWO YEARS OR AFTER ESTABLISHMENT IS CONFIRMED
4. PROVIDE DRAINAGE FOR PLANTING PIT IN IMPERMEABLE OR POORLY DRAINING SOIL

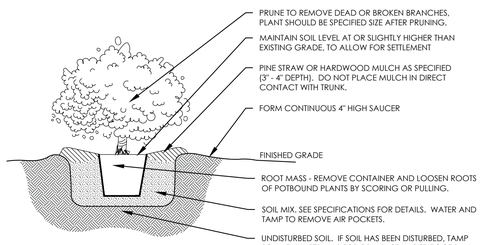
TREE PLANTING DETAIL — 1
SCALE: NTS



NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE DRAINAGE OF ALL PLANTING PITS. (POSITIVE DRAINAGE AWAY FROM PIT)
2. STREET TREES MUST BE 3" CALIPER AT INSTALLATION WITH A 5' MINIMUM FIRST BRANCH HEIGHT.
3. PLANTING SEASON OCTOBER - APRIL.
4. A TREE IMPACT PERMIT IS REQUIRED.
5. ELECTRICAL OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE PLANTING AREA IMMEDIATELY SURROUNDING THE TREE.

TREE PLANTING DETAIL — 2
SCALE: NTS

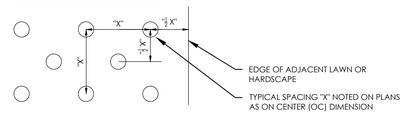


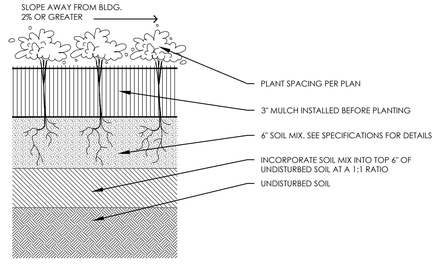
NOTES:

1. ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.
2. REMOVE ALL TAGS, TWINE OR OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANT OR ROOT MASS.
3. SOIL BACKFILL MIXTURE TO BE 1 PART GROUND PINE BARK TO 6 PARTS TOPSOIL PER SPECIFICATIONS.
4. PLANT ROOTBALL IN A PIT THAT IS 24" WIDER THAN THE ROOT BALL IN CLAY SOIL AND 12" WIDER THAN THE ROOT BALL IN SANDY SOIL.
5. FOR PLANTING AREAS WHERE SOIL HAS BEEN COMPACTED BY EQUIPMENT, CONTACT LANDSCAPE ARCHITECT PRIOR TO PLANTING.
6. SHRUBS SHALL BEAR SAME RELATIONSHIP TO GRADE AS THEY DID AT THE NURSERY PRIOR TO DIGGING.
7. PLANT PITS ARE ONLY FOR INDIVIDUAL PLANTS. FOR MASS PLANTINGS, PREPARE THE ENTIRE PLANT BED AREA.

SHRUB PLANTING — 4
SCALE: NTS

PLAN VIEW SPACING DIAGRAM:





NOTES:

1. ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.
2. LOOSEN ROOTS OF POTBOUND PLANTS BY SCORING OR PULLING.
3. REMOVE ALL TAGS, TWINE OR OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANT OR ROOT MASS.

GROUNDCOVER PLANTING — 5
SCALE: NTS

LANDSCAPE NOTES

1. LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
2. VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
3. ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
4. ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3" OF DYED BROWN DOUBLE SHREDDED HARDWOOD MULCH SHALL BE USED AROUND ALL PLANTINGS.
5. APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
6. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
7. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.) SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
8. CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
   - 8.1. REVIEW OF GRADING PRIOR TO PLANT INSTALLATION
   - 8.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
   - 8.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
   - 8.4. ONE FINAL INSPECTION FOR ALL PLANTING OPERATIONS.
9. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN TREE PROTECTION FENCING.
10. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
11. LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM PLANTED AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE REGRADED AND REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
13. SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
14. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
15. ALL FOUNDATION SHRUBS AND TREES TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
16. MULCH LINE SMOOTH CONTINUOUS CURVES. CLEAR OUT FIRST 5-FT FROM DEBRIS AND UNDERBRUSH (TYP) AT AREAS OF EXISTING VEGETATION TO REMAIN.
17. ALL TREES NOT WITHIN A PLANT BED TO BE TREATED WITH A 6-FT DIAMETER MULCH RING (TYP).

SEEDBED PREPARATION NOTES:

1. CHISEL ALL CUT, GRADED, OR COMPACTED AREAS TO A MIN. DEPTH OF 8 INCHES.
2. DISC ALL AREAS TO RECEIVE GRASS TO A MIN. OF 8 INCHES. MIX AND AMEND WITH WELL SCREENED TOPSOIL.
3. ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATIONS.
4. REMOVE ALL LOOSE ROCKS, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
5. APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
6. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A DEPTH OF 6 INCHES.
7. SEED AT A RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW SEEDED AREAS TO BECOME EXCESSIVELY DRY.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NECESSARY.
9. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS PREVAIL.

LIME & FERTILIZATION SCHEDULE

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3 TONS/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

LANDSCAPE NOTES — 3
SCALE: NTS

811 — 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES
Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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N.C.CORPORATE SEAL F-0453

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1815 LAURENE E. DICKSON

PRELIMINARY PLANS FOR REVIEW ONLY. NOT FOR CONSTRUCTION

NORTH CAROLINA C - 685 TRANSYSTEMS CORPORATION

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

LANDSCAPE DETAILS

ISSUE DATE 10/28/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

LP500

10/28/2022 3:47 PM K:\2021\SEP1.285.00 MJ Clinic Greenfield SHUD\CADD\CDs\LP500.dwg

GENERAL MECHANICAL NOTES

1. CEILING CAVITIES ON ALL FLOORS ON THIS PROJECT ARE USED AS RETURN AIR PLENUMS AND ALL SYSTEM COMPONENTS SHALL BE RATED FOR PLENUM APPLICATIONS.
2. THERMOSTATS, WALL SWITCHES, ETC. SHALL BE LOCATED AT THE SAME HEIGHT AS LIGHT SWITCHES (WITH 48" TO TOP MAXIMUM) IN ACCORDANCe. WITH THE NORTH CAROLINA ACCESSIBILITY CODE. COORDINATE PLACEMENT WITH THE ELECTRICAL SUB-CONTRACTOR.
3. ALL DOOR LOUVERS AND UNDERCUTS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. ARCHITECT TO SELECT.
4. ALL WIRING, CONTROL WIRING, AND CONDUIT SHALL BE CONCEALED IN FINISHED SPACES.
5. DUCT DIMENSIONS INDICATED ARE NET AIR STREAM INTERIOR DIMENSIONS OF DUCTWORK.
6. THE MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 6'-0".
7. SUPPLY AND RETURN REGISTERS IN THE WALLS SHALL BE FIELD PAINTED. COLOR SHALL BE SELECTED BY THE ARTCHITECT.
8. FOR EXACT LOCATION OF GRILLES, DIFFUSERS, ETC., REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
9. THE DIVISION 23 SUB-CONTRACTOR SHALL PROVIDE TRANSITIONS AS REQUIRED TO MAKE DUCT CONNECTIONS FROM TERMINAL UNITS TO DUCTWORK WHERE DUCT SIZES ARE NOT SHOWN OR DO NOT MATCH INLET OPENINGS. TRANSITIONS SHALL HAVE A 7:1 RATIO.
10. RUN-OUTS TO SUPPLY, RETURN AND EXHAUST DISTRIBUTION DEVICES SHALL BE AS INDICATED ON THE PLANS. WHERE SIZE OF RUN-OUT IS NOT GIVEN, THE RUN-OUT SHALL HAVE AN AREA EQUAL TO THE DISTRIBUTION DEVICE NECK SIZE. NECK SIZE SHALL BE BASED ON NC 20 OR LESS.
11. ROOF OPENINGS AND THEIR ASSOCIATED MISCELLANEOUS STEEL SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
12. PROVIDE REMOTE MOUNTED YOUNG REGULATORS FOR BALANCING OF ALL VOLUME DAMPERS ABOVE ROOMS WITH DRY WALL CEILINGS.
13. THE GENERAL CONTRACTOR SHALL PROVIDE HORIZONTAL CHANNELS AS REQUIRED TO FRAME CEILING OPENINGS FOR STRIP DIFFUSERS. THE GENERAL CONTRACTOR SHALL POSITION HIS DIAGONAL BRACES TO AVOID DUCT AND PIPING. THE DIVISION 15B SUB-CONTRACTOR SHALL COORDINATE THESE ITEMS WITH THE GENERAL CONTRACTOR.
14. ALL LOW PRESSURE DUCTWORK ABOVE NON-LAY-IN CEILINGS SHALL BE RIGID SHEET METAL. NO FLEXIBLE DUCTWORK SHALL BE USED.
15. PIPE HANGERS UTILIZED FOR THIS PROJECT SHALL BE PROVIDED BY THE DIVISION 23 SUB-CONTRACTOR. THIS INCLUDES ALL SUPPLEMENTAL STEEL, ETC.
16. ALL DUCTWORK SHALL BE SEALED CLASS 'A' PER SMACNA STANDARDS.
17. INSULATE BACKS OF ALL SUPPLY DIFFUSERS.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE

Prescriptive [X] Energy Cost Budget [ ]

Thermal Zone: ZONE 3A

Exterior design conditions

winter dry bulb: 23 °F
summer dry bulb: 93 °Fdb / 78°Fwb

Interior design conditions

winter dry bulb: 70 °F
summer dry bulb: 75 °F
relative humidity: 50 % R.H.

Building heating load: 154 MBH
Building cooling load: 30 TONS

Mechanical Spacing Conditioning System

Unitary: PACKAGED ROOF TOP UNIT
description of unit: DX COOLING ONLY
heating efficiency: SEE DRAWING M002
cooling efficiency: SEE DRAWING M002
heat output of unit: SEE DRAWING M002
cooling output of unit: SEE DRAWING M002
boiler: NOT APPLICABLE
total boiler output, if oversized, state reason.

chiller: NOT APPLICABLE
total chiller capacity, if oversized, state reason.

List equipment efficiencies

Equipment schedule with motors (mechanical systems)

motor horsepower: SEE DRAWING M002
number of phases: SEE DRAWING M002
minimum efficiency: SEE DRAWING M002
motor type: SEE DRAWING M002
# of poles: SEE DRAWING M002

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 Energy Code, 2018Edition.

Signed:
Name: JAMES CURRIE, P.E.
Title: PRINCIPAL

MECHANICAL SYMBOLS LEGEND

CD	SUPPLY AIR DUCT OR DIFFUSER
RG/EG	RETURN OR EXHAUST AIR DUCT OR GRILLE
CD-X / XXX	DEVICE DESIGNATION / CFM
8"x10"	RECTANGULAR DUCTWORK WIDTH x HEIGHT
8"x10"(L)	RECTANGULAR DUCTWORK WIDTH x HEIGHT LINED DUCT; (L) DUCT LINER
10"□	ROUND DUCT SIZE
	VANE ELBOW (DOUBLE WALL VANES)
7 / 1	RECTANGULAR DUCTWORK TRANSITION
	DUCT/ AIR BLOWING UP TOWARD READER
	DUCT/ AIR BLOWING AWAY FROM READER
	DUCT/ AIR FLOW DOWN
	FLEXIBLE DUCT, MAX. 6'-0" LONG.
	EXHAUST OR RETURN REGISTER OR GRILLE
	CONICAL TAP WITHOUT VOLUME DAMPER (MPSA DUCT)
VD	SPIN-IN FITTING WITH VOLUME DAMPER (LOW PRESSURE DUCT ONLY)
VD	BRANCH TAKE-OFF WITH VOLUME DAMPER
MD	MANUAL ISOLATION DAMPER (NORMALLY CLOSED)
AD	MOTORIZED AUTOMATIC DAMPER
T	THERMOSTAT
S	WALL SWITCH
O	WALL MOUNT - PUSHBUTTON OVERRIDE SWITCH TO BAS
DD	DUCT DETECTOR
▶ FD	FIRE DAMPER W/ACCESS DOOR (WALL)
◆ FD	FIRE DAMPER W/ACCESS DOOR (FLOOR)
▲FD/SD	COMBINATION FIRE/SMOKE DAMPER W/ACCESS DOOR (WALL)
◆ FD/SD	COMBINATION FIRE/SMOKE DAMPER W/ACCESS DOOR (FLOOR)
▲SD	SMOKE DAMPER W/ACCESS DOOR (WALL)
◆ SD	SMOKE DAMPER W/ACCESS DOOR (FLOOR)
VD	VOLUME DAMPER
	ACCESS DOOR
OA	OUTDOOR AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
RA	RETURN AIR
MPSA	MEDIUM PRESSURE SUPPLY AIR
RTU	PACKAGED ROOFTOP UNIT
AFF	ABOVE FINISHED FLOOR
M.C.	HVAC SUB-CONTRACTOR
G.C.	GENERAL SUB-CONTRACTOR
P.C.	PLUMBING SUB-CONTRACTOR
E.C.	ELECTRICAL SUB-CONTRACTOR
F.D.	FIRE DAMPER OR FLOOR DRAIN
B.O.W.	BAKED ON WHITE
NTS	NOT TO SCALE
X-	EXISTING
	CONNECT TO EXISTING
	EXISTING EQUIPMENT, DUCT OR PIPE

MECHANICAL DRAWING LIST

Sheet Number	Sheet Name
M001	MECHANICAL SYMBOL LEGEND, NOTES AND DRAWING LIST
M002	MECHANICAL SCHEDULES
M101	PARTIAL FLOOR PLAN - AREA A - MECHANICAL
M102	PARTIAL FLOOR PLAN - AREA B - MECHANICAL
M103	PARTIAL FLOOR PLAN - UPPER LEVEL - MECHANICAL
M201	MECHANICAL ZONING PLAN
M300	ROOF PLAN - MECHANICAL
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M500	MECHANICAL CONTROLS
M501	MECHANICAL CONTROLS

OUTSIDE AIR CALCULATIONS

RTU-1

AREA DESCRIPTION	CATEGORY	AREA SF	SUPPLY AIRFLOW	TOTAL OCCUPANTS	OA CFM PERSON	OA PEOPLE TOTAL	AREA OA FLOW CFM/FT	AREA CFM	TOTAL OUTSIDE AIR	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	Total Min OA CFM Voz	Zp	Ev=	Corrected OA Flow
101 VESTIBULE.	CORRIDOR	82	200	0			0.06	5	5	0.8	6	0.03	1	6
102 WAITING	RECEPTION	1324	2500	39	5	195	0.06	79	274	0.8	343	0.14	1	343
103 VESTIBULE	CORRIDOR	75	200	0			0.06	5	5	0.8	6	0.03	1	6
104 WOMENS TOILET	TOILET	60	40	0			0	0	0	0.8	0	0.00	1	0
105 RECEPTION	OFFICE	190	250	2	5	10	0.06	11	21	0.8	27	0.11	1	27
106 COPY FAX	OFFICE	83	150	1	5	5	0.06	5	10	0.8	12	0.08	1	12
107 IT TELECOM	STORAGE	92	0	0			0.12	11	11	0.8	14		1	14
108 ADMIN FLEX	OFFICE	70	90	1	5	5	0.06	4	9	0.8	12	0.13	1	12
109 RH	STORAGE	30	0	0			0	0	0	0.8	0		1	0
110 BLOOD DRAW	OFFICE	158	200	2	5	10	0.06	9	19	0.8	24	0.12	1	24
111 MENS TOILET	TOILET	60	40	0			0	0	0	0.8	0	0.00	1	0
114 IMAGING	OFFICE	210	350	1	5	5	0.06	13	18	0.8	22	0.06	1	22
114 PHYSICAL THERAPY	OFFICE	143	210	2	5	10	0.06	9	19	0.8	23	0.11	1	23
115 CONTROL	OFFICE	40	125	1	5	5	0.06	2	7	0.8	9	0.07	1	9
117 WOMENS TOILET	TOILET	60	0	0			0	0	0	0.8	0		1	0
118 EXAM 12	OFFICE	120	200	2	5	10	0.06	7	17	0.8	22	0.11	1	22
119 EXAM 11	OFFICE	120	190	2	5	10	0.06	7	17	0.8	22	0.11	1	22
120 EXAM 10	OFFICE	120	190	2	5	10	0.06	7	17	0.8	22	0.11	1	22
121 EXAM 9	OFFICE	120	210	2	5	10	0.06	7	17	0.8	22	0.10	1	22
122 EXAM 8	OFFICE	120	210	2	5	10	0.06	7	17	0.8	22	0.10	1	22
123 EXAM 7	OFFICE	120	200	2	5	10	0.06	7	17	0.8	22	0.11	1	22
124 MD/PA	OFFICE	200	500	4	5	20	0.06	12	32	0.8	40	0.08	1	40
125 MENS TOILET	TOILET	60	0	0			0	0	0	0.8	0		1	0
126 SOILED	STORAGE	59	20	0			0	0	0	0.8	0	0.00	1	0
128 JAN	TOILET	58	20	0			0	0	0	0.8	0	0.00	1	0
CORRIDORS	CORRIDOR	1250	485	0			0.06	75	75	0.8	94	0.19	0.9	104
130 STAFF VESTIBULE	CORRIDOR	74	75	0			0.06	4	4	0.8	6	0.07	1	6
131 WOMENS TOILET	TOILET	60	50	0			0	0	0	0.8	0	0.00	1	0
132 BREAKROOM	OFFICE	172	350	5	5	25	0.06	10	35	0.8	44	0.13	1	44
133 EXAM 1	OFFICE	103	110	2	5	10	0.06	6	16	0.8	20	0.18	0.9	22
134 EXAM 2	OFFICE	103	110	2	5	10	0.06	6	16	0.8	20	0.18	0.9	22
135 EXAM 3	OFFICE	103	110	2	5	10	0.06	6	16	0.8	20	0.18	0.9	22
136 EXAM 4	OFFICE	103	110	2	5	10	0.06	6	16	0.8	20	0.18	0.9	22
137 EXAM 5	OFFICE	103	110	2	5	10	0.06	6	16	0.8	20	0.18	0.9	22
138 EXAM 6	OFFICE	103	110	2	5	10	0.06	6	16	0.8	20	0.18	0.9	22
139 CENTRAL NURSE STATION	OFFICE	634	1100	12	5	60	0.06	38	98	0.8	123	0.11	1	123
140 MEDS	STORAGE	102	100	0			0.12	12	12	0.8	15	0.15	1	15
141 CLEAN SUPPLY	STORAGE	56	50	0			0.12	7	7	0.8	8	0.17	0.9	9
143 CONSULT ROOM	OFFICE	76	100	2	5	10	0.06	5	15	0.8	18	0.18	0.9	20
144 MENS TOILET	TOILET	60	0	0			0	0	0	0.8	0			
145 ELEC	STORAGE	48	175	0			0.12	6	6	0.8	7	0.04	1	7
147 SOCIAL WORK	OFFICE	91	75	2	5	10	0.06	5	15	0.8	19	0.26	0.8	24
148 CLINIC FLEX	OFFICE	124	120	2	5	10	0.06	7	17	0.8	22	0.18	0.9	24
149 BEHAV HEALTH	OFFICE	124	120	2	5	10	0.06	7	17	0.8	22	0.18	0.9	24
150 ADMIN OFFICE	OFFICE	121	140	2	5	10	0.06	7	17	0.8	22	0.15	1	22
									951		1188			1225
	Total Area =	7384	9695	104					TOTAL OUTSIDE AIR REQUIRED		1225			
									TOTAL OUTSIDE AIR PROVIDED		1500			

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

CONSTRUCTION DOCUMENTS

MECHANICAL SYMBOL LEGEND, NOTES AND DRAWING LIST

ISSUE DATE 08/11/2022
CHECKED JLC
SHEET BY CADD
PROJECT NUMBER 21-025

M001

BIM 360://21-025 Novant MJ Clinic Wilmington/MECHANICAL 064.00 Novant MJ Clinic - Greenfield.rvt
8/11/2022 8:02:35 AM

AIR DISTRIBUTION DEVICE SCHEDULE

DESIGNATION	NAILOR MODEL NO.	SERVICE	MAXIMUM CFM	PANEL SIZE	NECK SIZE	FINISH	REMARKS
CD-1	RNS/ARNS	CEILING SUPPLY DIFFUSER	0-140	24X24	6"□	B.O.W.	NOTE 1, 6, 7
CD-2	RNS/ARNS	CEILING SUPPLY DIFFUSER	141-250	24X24	8"□	B.O.W.	NOTE 1, 6, 7
CD-3	RNS/ARNS	CEILING SUPPLY DIFFUSER	251-360	24X24	10"□	B.O.W.	NOTE 1, 6, 7
SR-1	51DV	SURFACE MOUNT SUPPLY GRILLE ALUMINUM CONSTRUCTION	200	14X8	12x6	B.O.W.	NOTE 5, 6
RG-1	4360A	CEILING MOUNTED RETURN GRILLE	600	24X12	22X10	B.O.W.	NOTE 3, 6
RG-2	4360A	CEILING MOUNTED RETURN GRILLE	1000	24X24	22X22	B.O.W.	NOTE 3, 6
EG-1	4360A	CEILING MOUNTED EXHAUST GRILLE	100	24X12	6"□	B.O.W.	NOTE 5, 6, 7
SD-1	5850	SLOT DIFFUSER (ICE TONG DEFLECTORS)	150	48"X6"	8"□	NOTE 6	NOTE 2, 6, 2 SLOT, 3/4"
SD-2	5850	SLOT DIFFUSER (ICE TONG DEFLECTORS)	250	48"X6"	8"□	NOTE 6	NOTE 2, 6, 3 SLOT, 3/4"
RR-1	5145H	SURFACE MOUNT TRANSFER GRILLE	1500	28x24	26x22	B.O.W.	NOTE 5, 6, 7
RR-2	5145H	SURFACE MOUNT TRANSFER GRILLE	200	14x10	12x8	B.O.W.	NOTE 5, 6, 7
RR-3	5850	SURFACE MOUNT TRANSFER GRILLE	200	48"X6"	N/A	B.O.W.	NOTE 2, 6, 2 SLOT, 3/4"

NOTES:

1. PROVIDE FRAMES TO MATCH CEILING TYPES. "a" DESIGNATION ON CEILING DIFFUSERS DENOTES SURFACE MOUNTING.
2. PROVIDE END CLIPS, ALIGNMENT STRIPS AND CONCEALED MOUNTING. PROVIDE 12"H X FULL LENGTH INTERNALLY LINED PLENUM FOR EACH AT WIDTH NECESSARY TO ACCOMMODATE # OF SLOTS..
3. INSULATE THE BACKS OF ALL SUPPLY DIFFUSERS.
4. SURFACE MOUNT
5. PROVIDE MANUAL VOLUME DAMPER FOR BALANCING AIR FLOWS IN ACCESSIBLE LOCATION.
6. VERIFY COLOR WITH ARCHITECT.
7. ALL GRILLES AND REGISTERS LOCATED IN JANITOR AND TOILER TOOMS SHALL BE ALUMINUM CONSTRUCTION. OTHER AREAS TO BE STEEL CONSTRUCTION.
8. ALL LINEAR DIFFUSERS SHALL HAVE EXTERNALLY INSULATED SUPPLY PLENUMS.

FAN SCHEDULE

DESIGNATION	SERVES	LOCATION	GREENHECK MODEL NO.	CFM	E.S.P.	TYPE	DRIVE	BHP	MOTOR HP	VOLTS/PHASE	WEIGHT LBS	ROOF OPENING	CONTROL	NOTE
EF-1	TOILETS	ROOF	G-100HP-VG	300	0.5"	DOWNBLAST	DIRECT	0.06	1/4	120/1	50	19x19	BAS	(1)
EF-2	TOILETS	ROOF	G-100HP-VG	300	0.5"	DOWNBLAST	DIRECT	0.06	1/4	120/1	50	19x19	BAS	(1)

NOTES:

(1) PROVIDE WITH THE FOLLOWING ACCESSORIES:
ECM WITH SPEED CONTROLLER
14" HIGH INSULATED ROOF CURB
DISCONNECT SWITCH
HIGH WIND RATED
FOAM CURB SEAL
BACKDRAFT DAMPER
TIE DOWN POINTS
HOOD HASPS
STAINLESS STEEL FASTENERS
ALUMINUM BIRD SCREEN

VARIABLE VOLUME AIR TERMINAL UNIT

DESIGNATION	ROOMS SERVED	SELECTED ON TRANE MODEL	SIZE	INLET DIA.	COOLING MIN CFM	COOLING MAX CFM	HEAT CFM	REHEAT COIL DATA KW	VOLTS	PHASE	STAGES	CONTROL	AMPS	MCA	MOCP	EAT	LAT @ HTG. CFM	REMARKS
VAV-01	132, 130	VCEF	08	8	130	425	215	2.5	208	1	1	SCR	X	-	-	55	90	1 2 3 4
VAV-02	133, 134, 135	VCEF	06	6	100	330	165	2.0	208	1	1	SCR	-	-	-	55	90	1 2 3 4
VAV-03	136, 137 ,138	VCEF	06	6	100	330	165	2.0	208	1	1	SCR	-	-	-	55	90	1 2 3 4
VAV-04	148, 149, 150, 101	VCEF	08	8	200	655	330	4.0	208	1	1	SCR	-	-	-	55	90	1 2 3 4
VAV-05	111, 110, 104	VCEF	06	6	85	280	140	1.5	208	1	1	SCR	-	-	-	55	90	1 2 3 4
VAV-06	114, 112	VCEF	06	6	100	300	150	1.5	208	1	1	SCR	-	-	-	55	90	1 2 3 4
VAV-07	118, 119, 120	VCEF	08	8	175	580	290	3.5	208	1	1	SCR	-	-	-	55	85	1 2 3 4
VAV-08	121, 122, 123	VCEF	08	8	190	620	310	3.5	208	1	1	SCR	-	-	-	55	85	1 2 3 4
VAV-09	124, 131	VCEF	08	8	190	620	310	3.5	208	1	1	SCR	-	-	-	55	85	1 2 3 4
VAV-10	128, 126, 125, 151	VCEF	06	6	80	260	130	1.5	208	1	1	SCR	-	-	-	55	85	1 2 3 4
VAV-11	139, 141, 140	VCEF	12	12	350	1100	550	6.5	208	3	1	SCR	-	-	-	55	85	1 2 3 4
VAV-12	145, 147, 143	VCEF	08	8	130	425	210	2.5	208	1	1	SCR	-	-	-	55	85	1 2 3 4
VAV-13	114, 115	VCEF	08	8	145	475	240	3.0	208	1	1	SCR	-	-	-	55	85	1 2 3 4
VAV-14	108, 105, 106	VCEF	08	8	155	515	260	3.0	208	1	1	SCR	-	-	-	55	85	1 2 3 4

NOTE:

(1) VAV BOX INLET SIZE MAY NOT MATCH INCOMING DUCT SIZE. CONCENTRIC TRANSITION WILL BE REQUIRED WHEN THIS OCCURS.
(2) VAV BOX HEATING COILS SHALL BE KW INDICATED ON SCHEDULE.
(3) PROVIDE WITH DDC CONTROLLER, 1" FOIL FACED INSULATION. ORIENTATION OF ACCESS PANELS PER FLOOR PLANS.
(4) PROVIDE DISCONNECT.

FAN POWERED AIR TERMINAL UNIT

DESIGNATION	SELECTED ON TRANE MODEL	SIZE	INLET DIA.	COOLING MIN CFM	COOLING MAX CFM	HEAT CFM	FAN CFM	FAN STATIC	VOLTS /PH	FAN HP	REHEAT COIL DATA KW	VOLTS	PHASE	CONTROL	FLA	MCA	MOCP	EAT	LAT @ HTG. CFM	REMARKS
FPB-01	VSEF	10	10	280	925	415	925	0.3"	208/1	1/3	6.0	208	3	SCR	19.6	14.5	25	66	90	1 2 3 4 5
FPB-02	VSEF	14	14	600	1975	990	1975	0.3"	208/1	1/2	10	208	3	SCR	32.7	40.9	45	66	90	1 2 3 4 5

NOTE:

(1) VAV BOX INLET SIZE MAY NOT MATCH INCOMING DUCT SIZE. CONCENTRIC TRANSITION WILL BE REQUIRED WHEN THIS OCCURS.
(2) UNITS WITH 208V THREE PHASE POWER REQUIRE 36" CLEARANCE ON SIDE WITH ACCESS PANEL.
(3) PROVIDE SERIES FAN POWERED BOXES WITH ELECTRIC REHEAT FOR THE MAIN LOBBY. ALL OTHER BOXES ARE SHUTOFF VAV TYPE WITH ELECTRIC REHEAT.
(4) VAV BOX HEATING COILS SHALL BE KW INDICATED ON SCHEDULE.
(5) PROVIDE DISCONNECT.
(6) FURNISH WITH HANG POINTS.

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

DESIGNATION	LOCATION	TYPE	UNIT CAPACITY COOLING @ 80°F	UNIT CAPACITY HEATING @ 17°F	MITSUBISHI MODEL NUMBER	CFM/HEAT/DRY LOW/MED/HIGH	CFM/COOL/WET LOW/MED/HIGH	ELECTRICAL DATA VOLTS	PHASE	MCA	MOCP	SEER RATING	REMARKS
INDOOR UNITS													
SSI-1A	FIRST FLOOR DATA ROOM 141	WALL HUNG	12.0 MBH	N/A	PKA-A12HA7	250/315/380	240/290/340	208	1	1.2	15	NA	(1) (2) (3) (6)
OUTDOOR UNIT													
SSO-1A	ROOF	PAD	NA	NA	PUY-A12NKA7	NA	NA	208	1	15	20	16.0	(1) (3) (4) (7)

NOTES:

(1) PROVIDE UNIT WITH LOW-AMBIENT COOLING CONTROL ACCESSORY TO 20°F.
(2) PROVIDE WALL MOUNTED THERMOSTAT.
(3) CAPACITIES BASED ON OUTDOOR AMBIENT TEMPERATURE OF 95°F.
(4) REFRIGERANT SIZING, ROUTING AND ACCESSORIES SHALL BE PROVIDED BY UNIT MANUFACTURER.
(5) PROVIDE EMERGENCY FLOAT SWITCH.
(6) PROVIDE CONDENSATE PUMP: LITTLE GIANT VCMX-20. PUMP CONDENSATE TO ROOF.
(7) PROVIDE DISCONNECT.

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

TAG	LOCATION	TONS	EER	BASIS OF DESIGN: TRANE MODEL	OUTSIDE AIR CFM	SUPPLY AIR FAN SUPPLY AIR CFM	SUPPLY AIR FAN TOTAL/ EXT. S.P. IN W.G.	MOTOR HP	MOTOR BHP	DX COOLING COIL DATA (95° AMBIENT) E.A.T. °F db / wb	L.C.T. °F db / wb	SENSIBLE MBH (NET)	TOTAL MBH (NET)	RETURN/EXHAUST AIR FAN CFM	MOTOR HP	ELECTRICAL CONNECTIONS VOLTS/ PHASE	MCA	MOCP	FAN HEAT (°F)	ELECTRIC HEATING COIL EAT (°F)	LAT (°F)	KW	WEIGHT WITH CURB	NOTES
RTU-1	ROOF	30	10.6	TED360CE**0D3GGA0B*****HJBE2KOR	1500	9500	2.0	15	8.98	77.9/66.0	52.3/52.2	236	357	9500	2	208/3	184.05	225	3	62.3	79.5	54	5000	(1) THRU (20)

NOTES:

(1) L.A.T. °F IS THE LEAVING AIR TEMPERATURE FROM COIL.
(2) PROVIDE INSULATED 14" HIGH CURB FOR SLOPED ROOF WITH SPRING ISOLATION RAIL FOR ENTIRE UNIT, UNIT SHOULD BE LEVEL, O.A. INTAKE & RELIEF HOOD.
(3) PROVIDE VFD FOR EACH FAN. VFD - VARIABLE FREQUENCY DRIVE w/PHASE LOSS PROTECTION FOR DRIVE & MANUAL BYPASS.
(4) PROVIDE 100% OUTSIDE AIR AND 100% RELIEF AIR ECONOMIZER CYCLE PACKAGE COMPLETE WITH OPERATING CONTROLS AND "ULTRA LOW LEAK" DAMPERS FOR EACH UNIT. POWERED EXHAUST.
(5) SINGLE POINT POWER CONNECTION FOR EACH UNIT. UL OR ETL LISTED.
(6) VERIFY SLOPE OF ROOF FOR CURB TO BE LEVEL WITH STRUCTURAL DRAWINGS.
(7) 4" MERV 14 FILTERS.
(8) EXTERNAL STATIC PRESSURE DOES NOT INCLUDE PRESSURE DROP FOR COOLING COIL, FILTER, GAS FURNACE ECONOMIZER SECTION & FAN SECTIONS.
(9) PROVIDE BAS INTERFACE CONTROLLER FOR EACH UNIT.
(10) PROVIDE HINGED SERVICE ACCESS PANELS.
(11) PROVIDE 5-YEAR COMPRESSOR WARRANTY.
(12) PROVIDE STAINLESS STEEL DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH.
(13) PROVIDE 5 MINUTE TIME DELAY.
(14) PROVIDE HIGH EFFICIENCY MOTORS.
(15) PROVIDE HIGH CAPACITY EVAPORATOR.
(16) REFRIGERANT SHALL BE R410A.
(17) PROVIDE CRANKCASE HEATERS.
(18) PROVIDE CLOGGED FILTER SWITCH, CONDENSER COIL GUARDS, AND THROUGH THE BASE ELECTRICAL.
(19) ACCEPTABLE ALTERNATE MANUFACTURERS ARE CARRIER, DAIKEN AND JCI.
(20) PROVIDE DISCONNECT.

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221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

CONSTRUCTION DOCUMENTS

MECHANICAL SCHEDULES

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M002

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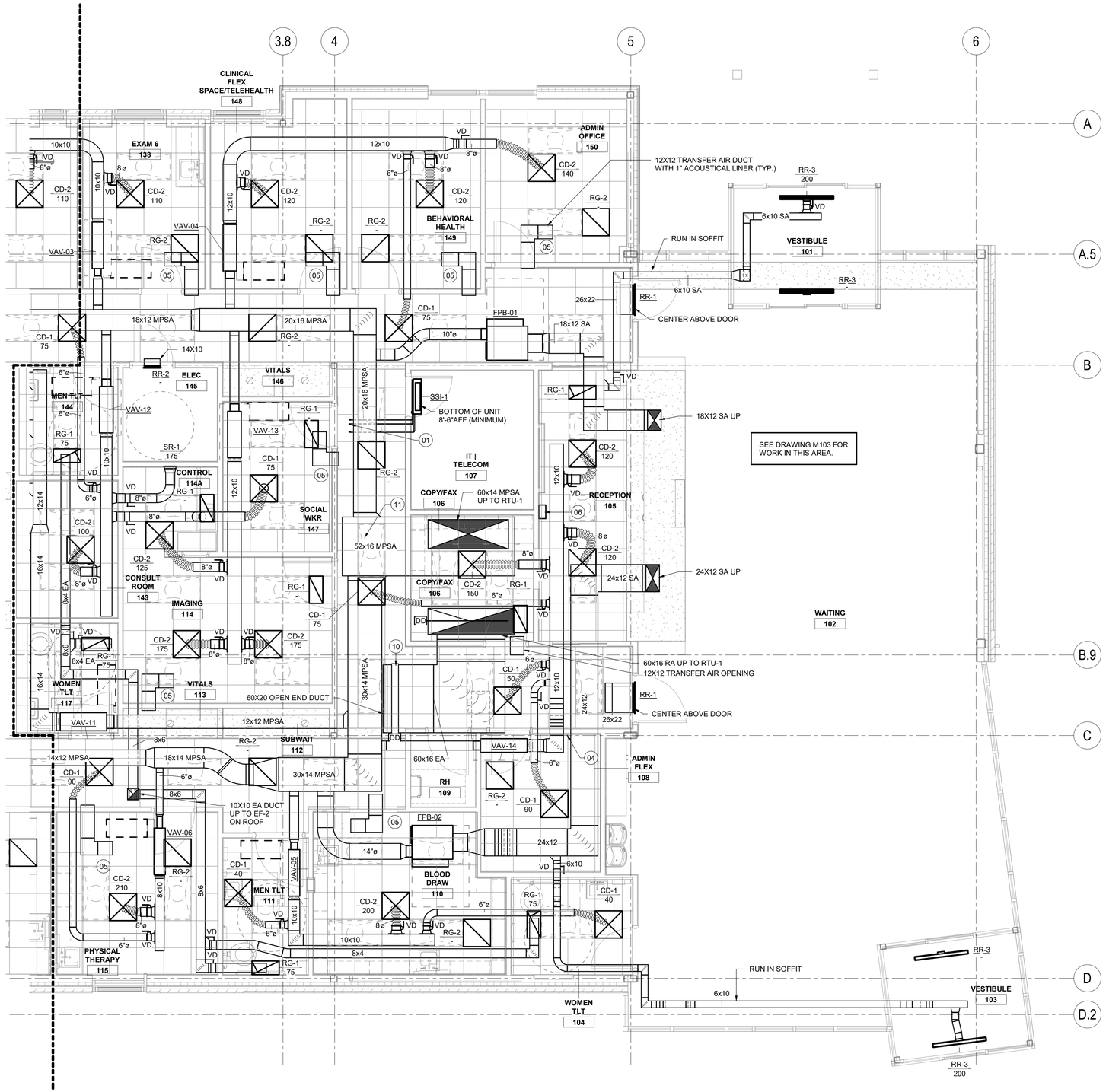

1 M101 PARTIAL FLOOR PLAN - AREA A - MECHANICAL
1/4" = 1'-0"

1/4" = 1'-0" 2' 0 2' 4' 8'

MECHANICAL KEYNOTE LEGEND

Key Value	Keynote Text
01	RS/RL UP THROUGH ROOF TO SSI-0. RUN 3/4" PUMPED CONDENSATE UP TO SPILL ON ROOF.
04	PROVIDE 10x10 OPENING IN WALL ABOVE CEILING.
05	12x12 TRANSFER AIR DUCT WITH 1" ACOUSTICAL LINER. SEE DETAIL.
06	INSTALL AUDIBLE AND VISUAL ALARM ON BACK WALL OF RECEPTION DESK. ALARM SHALL ACTIVATE IF THE ROOFTOP UNIT DUCT SMOKE DETECTOR GOES OFF. COORDINATE EXACT LOCATION OF ALARM DEVICE WITH ARCHITECT.
10	DUCT MOUNTED SMOKE DETECTOR. SEE KEYNOTE 6 FOR INTERLOCK GUIDELINES.
11	PROVIDE DUCT SPLIT PER DETAIL 10/M400.

GENERAL NOTE:
SEE DRAWING M201 FOR THERMOSTAT LOCATIONS.

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PARTIAL FLOOR PLAN - AREA A - MECHANICAL

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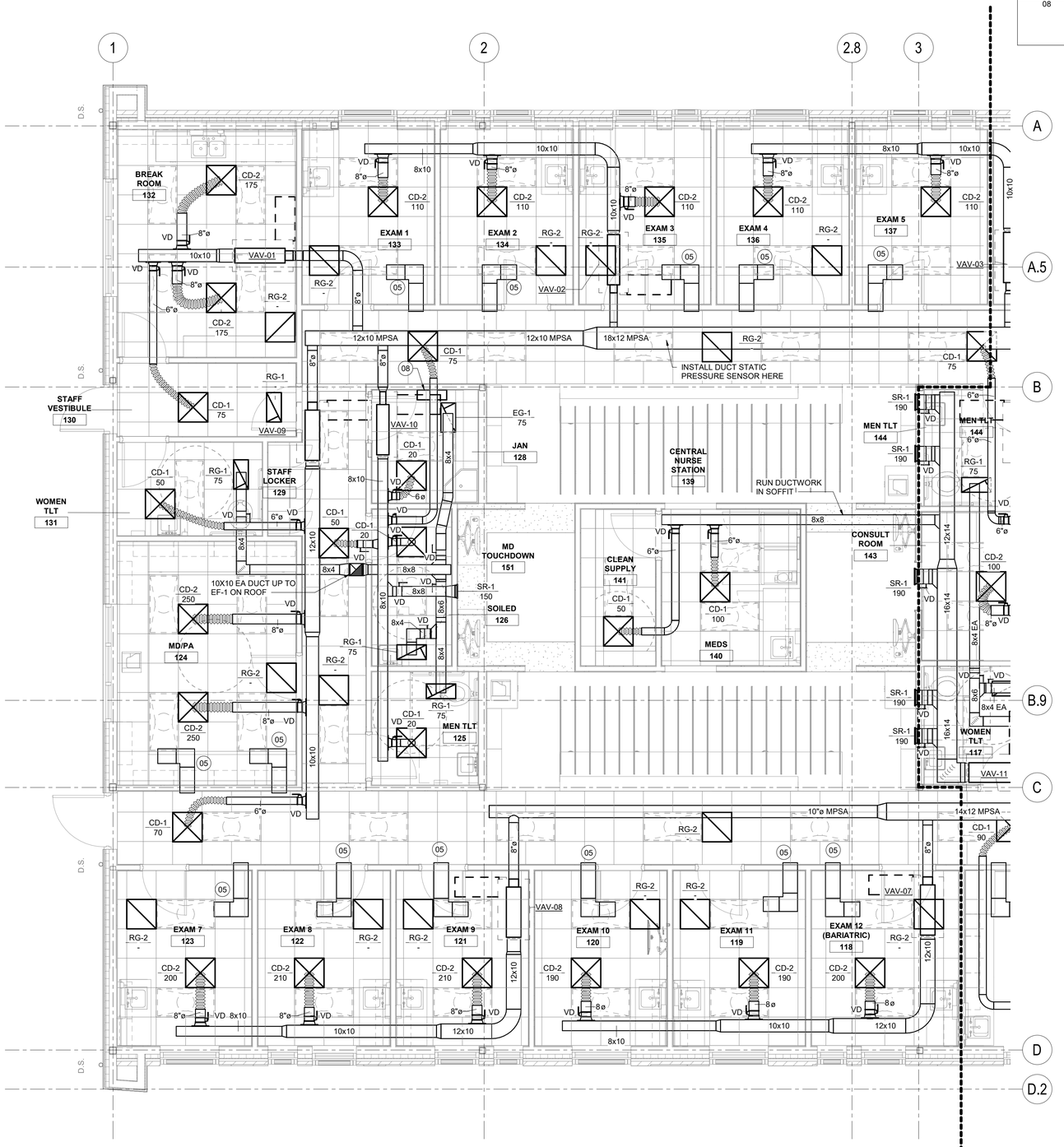
MECHANICAL KEYNOTE LEGEND	
Key Value	Keynote Text
05	12x12 TRANSFER AIR DUCT WITH 1" ACOUSTICAL LINER. SEE DETAIL.
08	PROVIDE NEW JACE WITH TRANSFORMERS, DATA CONNECTION, AND ROUTER SWITCH IN A UL LISTED CONTROL PANEL. JACE SHALL HAVE A 7" TOUCHSCREEN DISPLAY WITH GRAPHICS CAPABILITY. PROVIDE WIRING IN 1" CONDUIT FROM IT SERVER TO JACE. PROVIDE LOCAL UPS POWERSTRIP. A 120V OUTLET AND DATA CONNECTION IS PROVIDED BY EC FOR POWER. OWNER'S IT GROUP TO PROVIDE IP ADDRESS.



1 M102 PARTIAL FLOOR PLAN - AREA B - MECHANICAL
1/4" = 1'-0"

1/4" = 1'-0" 2' 0 2' 4' 8'

GENERAL NOTE:
SEE DRAWING M201 FOR THERMOSTAT LOCATIONS.

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PARTIAL FLOOR PLAN - AREA B - MECHANICAL

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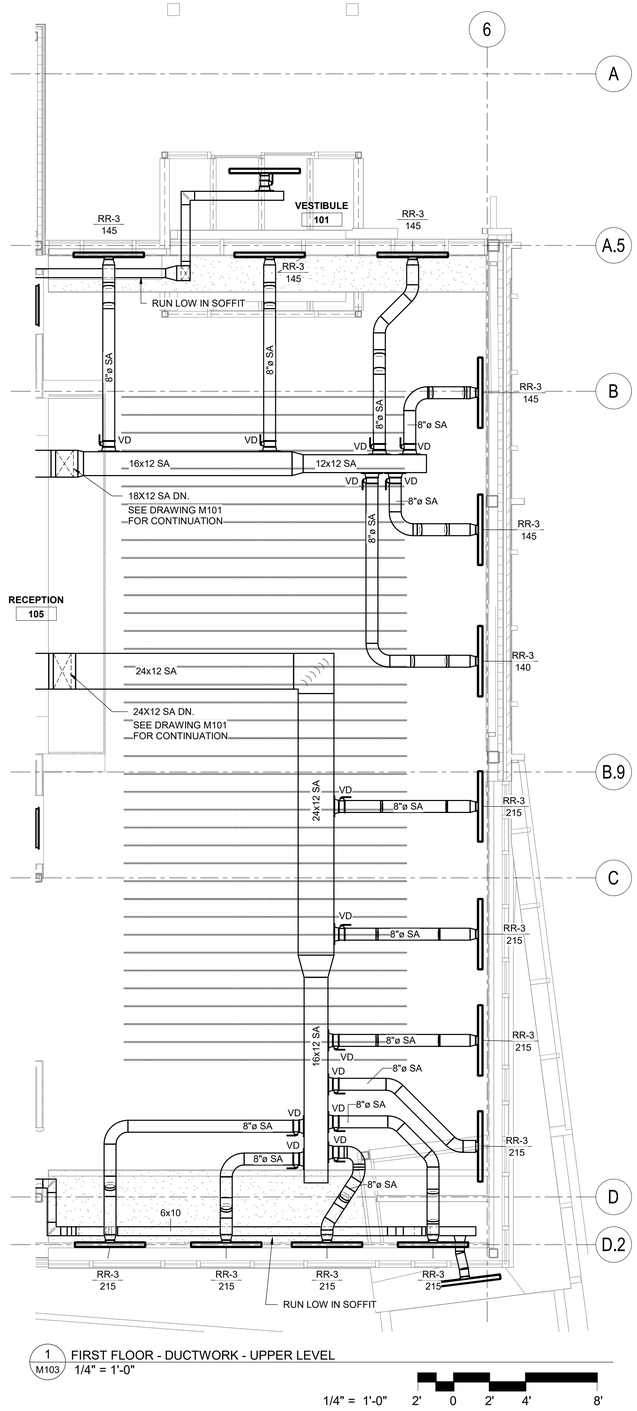

1 M103 FIRST FLOOR - DUCTWORK - UPPER LEVEL
1/4" = 1'-0"

1/4" = 1'-0" 2' 0 2' 4' 8'

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PARTIAL FLOOR PLAN - UPPER LEVEL - MECHANICAL

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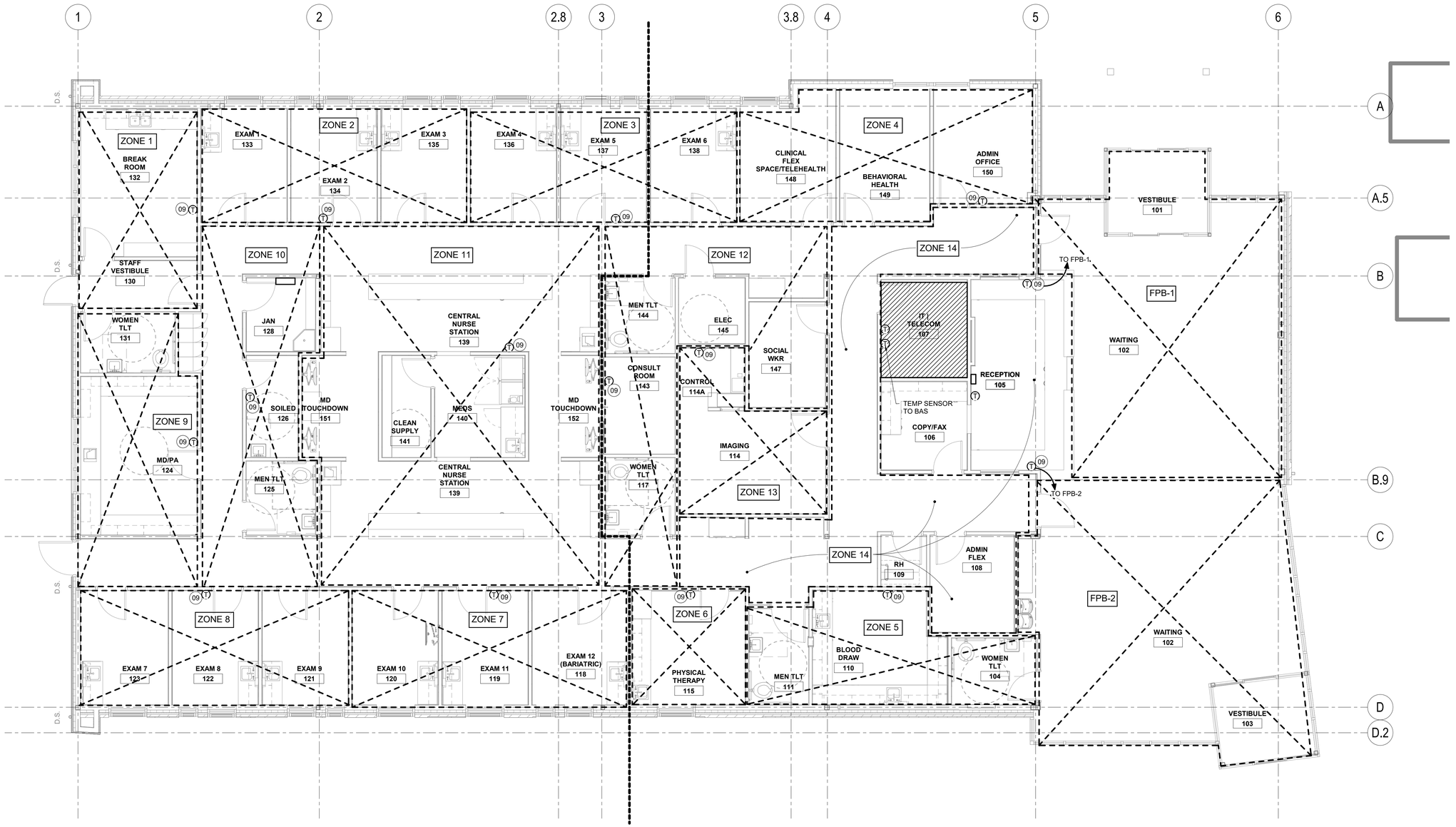
MECHANICAL KEYNOTE LEGEND	
Key Value	Keynote Text
09	TEMPERATURE SENSORS SHALL HAVE A LCD SCREEN, TEMPERATURE ADJUSTMENT AND OCCUPANCY OVERRIDE. SEE FLOOR PLANS FOR LOCATIONS.



1 / M201 MECHANICAL ZONING PLAN
3/16" = 1'-0"

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MECHANICAL ZONING PLAN

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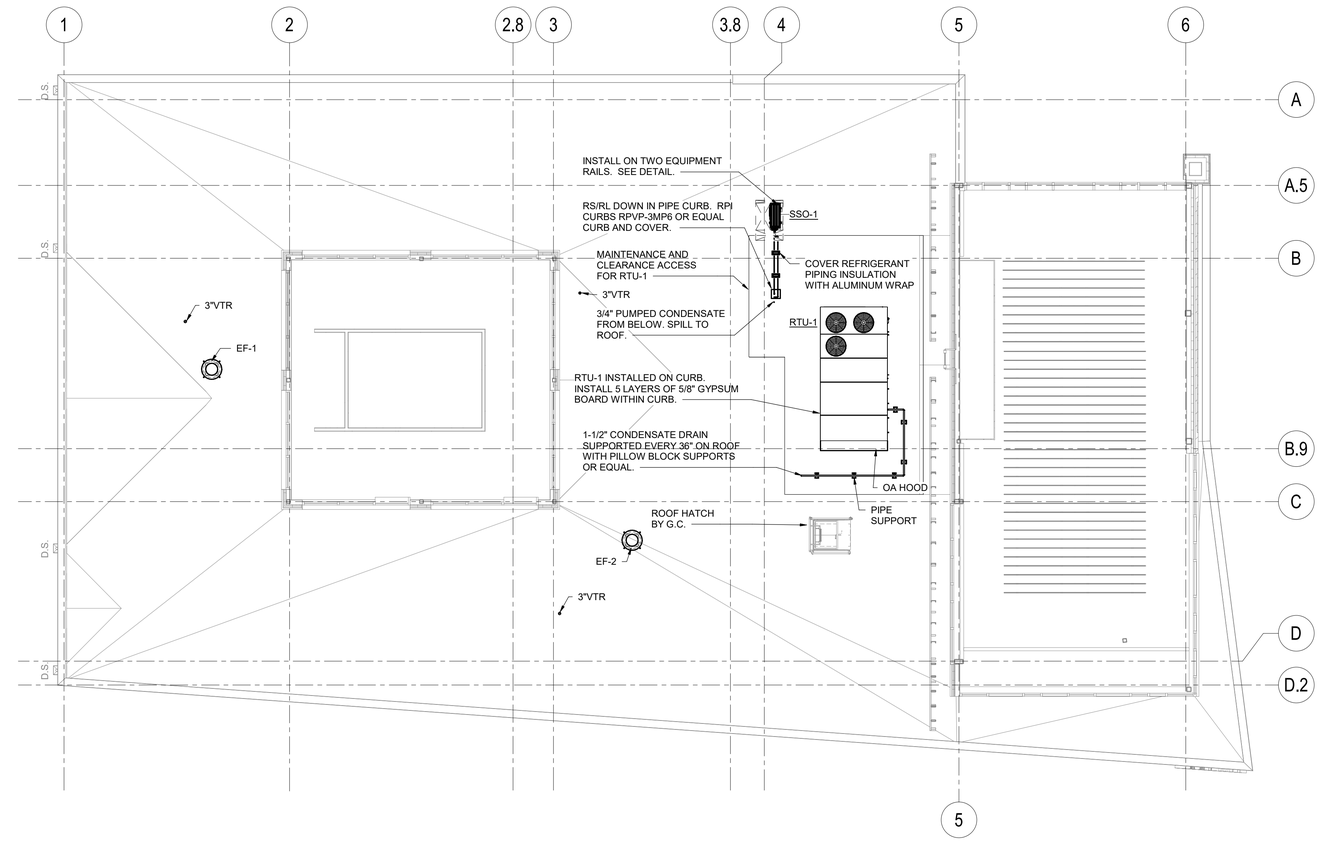

1 M300 ROOF PLAN
1/8" = 1'-0"

1/8" = 1'-0" 4' 0 4' 8' 16'

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ROOF PLAN - MECHANICAL

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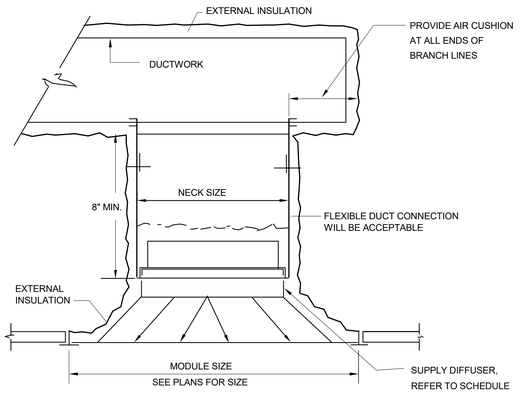
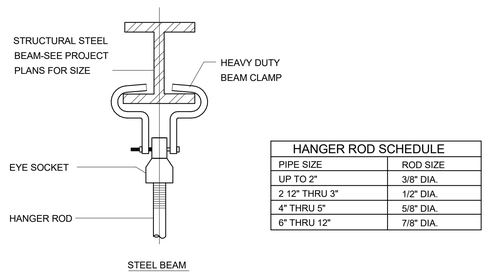
M300



9 M400 — CEILING DIFFUSER DETAIL

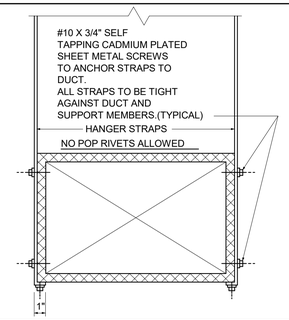
SCALE: NONE



HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 12" THRU 3"	1/2" DIA.
4" THRU 5"	5/8" DIA.
6" THRU 12"	7/8" DIA.

6 M400 — PIPE HANGER ATTACHMENT

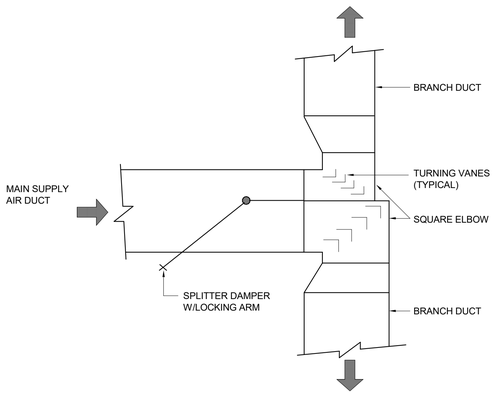
SCALE: NONE



HANGER SIZES FOR RECTANGULAR DUCT			
MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
UP TO 34"	1"X18" GAUGE STRAP	NONE REQUIRED	8'-0"

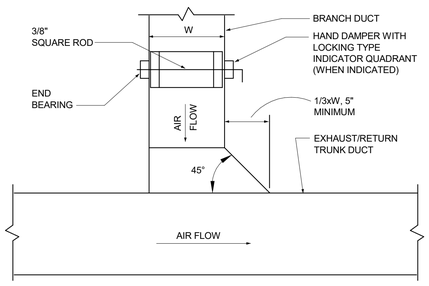
3 M400 — DUCT STRAP HANGAR DETAIL

SCALE: NONE



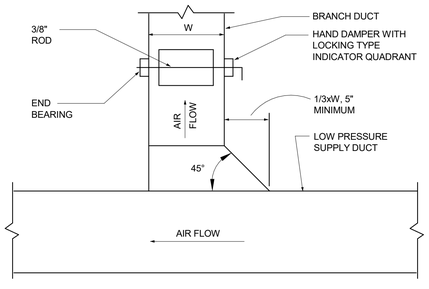
8 M400 — HORIZONTAL SUPPLY AIR SPLITTER DAMPER DETAIL

SCALE: NONE



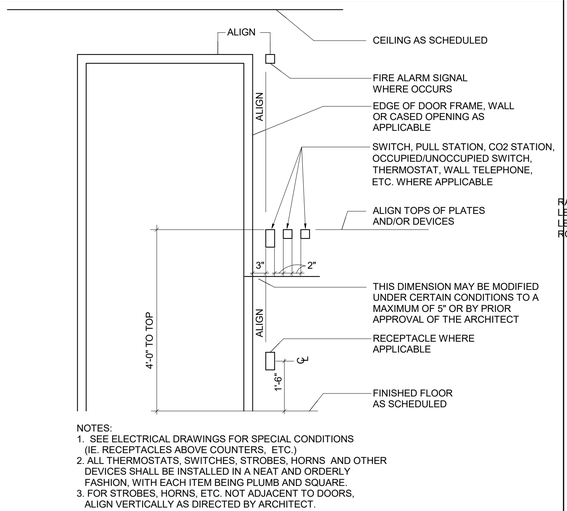
5 M400 — RECTANGULAR EXHAUST/ RETURN TAP INTO MAIN DUCT

SCALE: NONE



2 M400 — RECTANGULAR SUPPLY DUCT TAP TO SINGLE AIR OUTLET

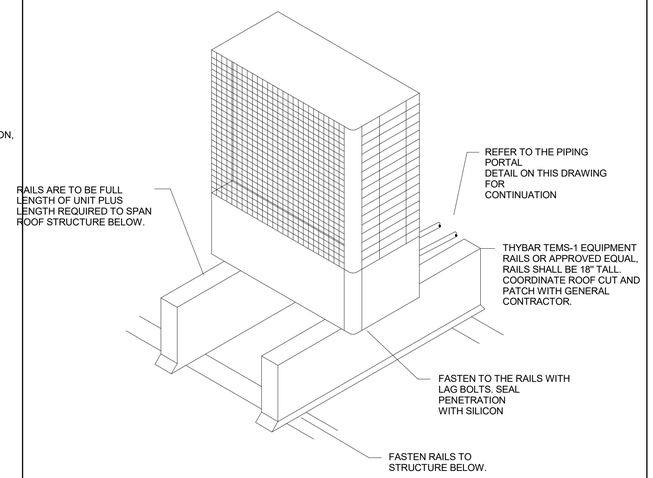
SCALE: NONE



NOTES:
1. SEE ELECTRICAL DRAWINGS FOR SPECIAL CONDITIONS (IE. RECEPTACLES ABOVE COUNTERS, ETC.)
2. ALL THERMOSTATS, SWITCHES, STROBES, HORNS AND OTHER DEVICES SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION, WITH EACH ITEM BEING PLUMB AND SQUARE.
3. FOR STROBES, HORNS, ETC. NOT ADJACENT TO DOORS, ALIGN VERTICALLY AS DIRECTED BY ARCHITECT.

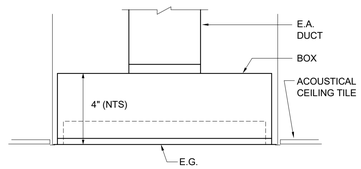
7 M400 — TYP. LOCATION OF SWITCHES/ALARMS/THERMOSTATS/OUTLETS

SCALE: NONE



4 M400 — ROOF MOUNTED CONDENSING UNIT DETAIL

SCALE: NONE



1 M400 — DUCT MOUNTED EXHAUST GRILLE DETAIL (LAY-IN CEILING)

SCALE: NONE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

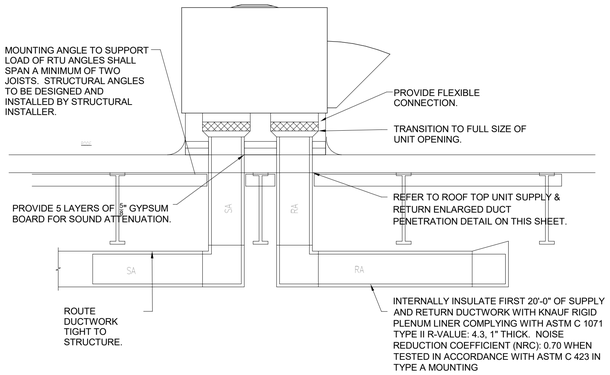
CONSTRUCTION DOCUMENTS

MECHANICAL DETAILS

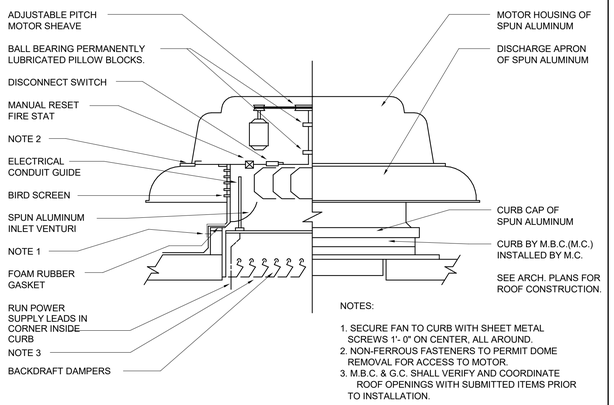
ISSUE DATE 08/11/2022
CHECKED JLC
SHEET BY MSR
PROJECT NUMBER 21-025

M400

8/11/2022 8:02:49 AM BIM 360://21-025 Novant MJ Clinic Wilmington/MECHANICAL 064.00 Novant MJ Clinic - Greenfield.rvt



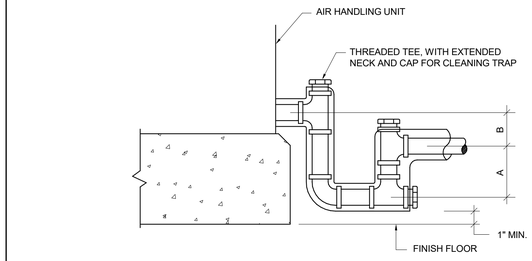
9	ROOF TOP UNIT INSTALLATION DETAIL
M401	SCALE: NONE



NOTES:

1. SECURE FAN TO CURB WITH SHEET METAL SCREWS 1'- 0" ON CENTER, ALL AROUND.
2. NON-FERROUS FASTENERS TO PERMIT DOME REMOVAL FOR ACCESS TO MOTOR.
3. M.B.C. & G.C. SHALL VERIFY AND COORDINATE ROOF OPENINGS WITH SUBMITTED ITEMS PRIOR TO INSTALLATION.

6	TOILET AND GENERAL ROOF EXHAUST DETAIL
M401	SCALE: NONE



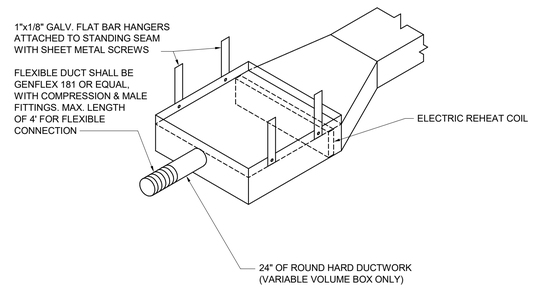
A = GREATER OF 4" OR 1/2" PLUS (BLOWTHRU) AHU TOTAL PRESSURE IN INCHES-WC

B = GREATER OF 2" OR 1/2" PLUS (DRAWTHRU) AHU TO TOTAL PRESSURE IN INCHES-WC

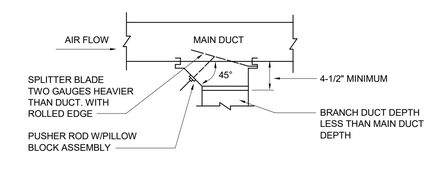
NOTES:

1. 1" MIN. PIPE SIZE OR DRAIN SIZE TAP IN AHU INSULATE FOR CONDENSATE CONTROL AS REQUIRED.

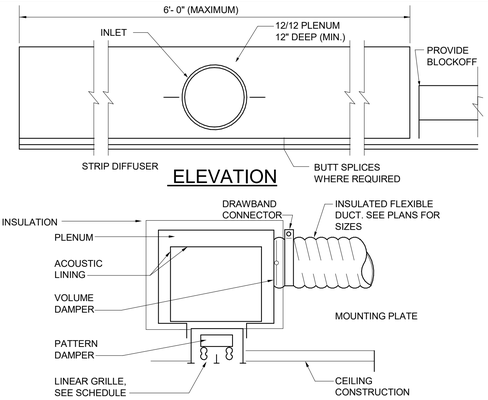
3	RTU CONDENSATE DRAIN DETAIL
M401	SCALE: NONE



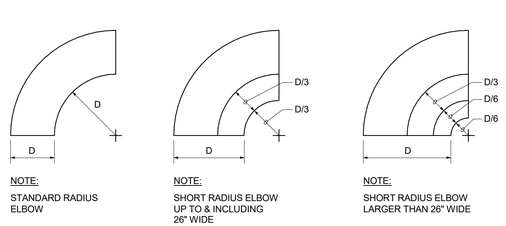
8	SHUTOFF VARIABLE VOLUME BOX DETAIL
M401	SCALE: NONE



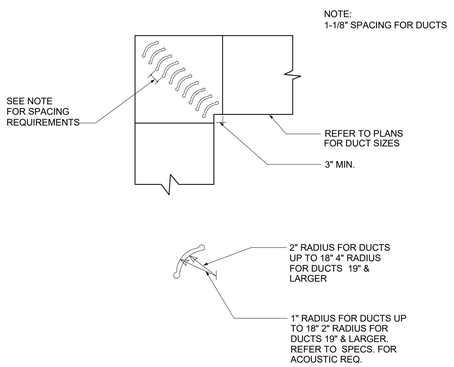
5	SUPPLY AIR SPLITTER DAMPER DETAIL
M401	SCALE: NONE



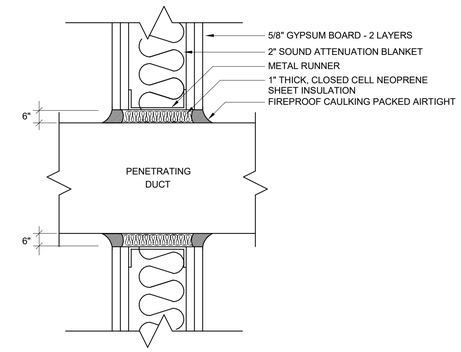
2	STRIP DIFFUSER DETAIL (SUPPLY)
M401	SCALE: NONE



7	RADIUS ELBOW TURNING VANE DETAIL
M401	SCALE: NONE



4	SQUARE ELBOW DETAIL
M401	SCALE: NONE



1	DUCT PENETRATION AT DRYWALL PARTITION
M401	SCALE: NONE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

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M401

8/11/2022 8:02:50 AM BIM 360://21-025 Novant MJ Clinic Wilmington/MECHANICAL 064.00 Novant MJ Clinic - Greenfield.rvt

SEQUENCES OF OPERATION

ROOFTOP UNIT

ROOFTOP UNIT SHALL BE PROVIDED WITH SUPPLY AIR TEMPERATURE SENSOR IN THE LEAVING AIR DUCT, A VAV CONTROLLER AND A MASTER ENERGY CONTROLLER. A 24 VOLT DC REGULATED POWER SUPPLY SHALL BE PROVIDED TO THE VAV CONTROLLER. A CONTINUOUS SIGNAL FROM 1 TO 16 VOLTS IS RETURNED TO THE MASTER ENERGY CONTROLLER BY THE TRANSMITTER. THIS SIGNAL SEQUENCES THE STAGES OF MECHANICAL COOLING, ELECTRIC REHEAT COIL AND MODULATES THE ECONOMIZER IN RESPONSE TO THE SUPPLY AIR TEMPERATURE DEVIATION FROM SET POINT. A STATIC PRESSURE SENSOR LOCATED IN THE SUPPLY AIR DUCT SHALL CAUSE THE FAN SPEED TO MODULATE TO MAINTAIN SET POINT. IN ADDITION, AN OUTDOOR AIR TEMPERATURE SENSOR SHALL PROVIDE CONTINUOUS INPUT TO THE VAV CONTROLLER. THE VAV CONTROLLER WILL RESET THE ALLOWABLE LEAVING SUPPLY AIR SET POINT OF 55°F UP 2°F FOR EVERY 5°F DROP IN OUTDOOR AIR TEMPERATURE FROM 70°F TO 45°F. IF TWO OR MORE TERMINAL UNITS DEMAND COOLING WHILE THE LEAVING AIR TEMPERATURE IS RESET ABOVE 55°F, THE UNIT SHALL RETURN THE LEAVING AIR TEMPERATURE BACK TO 55°F UNTIL EACH ZONE IS SATISFIED.

THE VAV CONTROLLER SHALL PROVIDE ANTI SHORT CYCLE PROTECTION BY PROVIDING FIVE MINUTE TIME DELAY BETWEEN SUCCEEDING ON AND OFF STAGES.

ON A CALL FOR COOLING WITH THE OUTDOOR AIR TEMPERATURE BELOW THE SUPPLY AIR SET POINT, THE FIRST STAGE OF MECHANICAL COOLING WILL BE LOCKED OUT FOR A PERIOD OF 10 MINUTES TO ALLOW THE ECONOMIZER TO SATISFY THE LOAD. IF THE OUTDOOR AIR TEMPERATURE IS HIGHER THAN THE SET POINT, THE FIRST STAGE OF COOLING WILL BE ALLOWED TO START IMMEDIATELY.

DURING ECONOMIZER OPERATION, THE LOW LIMIT FUNCTION WILL BEGIN TO MODULATE THE OUTDOOR AIR DAMPERS OPEN AT 62°F. THE VAV CONTROLLER SHALL MODULATE THE OUTSIDE AIR DAMPERS TO MAINTAIN A LEAVING AIR TEMPERATURE OF NO LESS THAN 50°F. THE DAMPERS WILL RETURN TO A MINIMUM POSITION IF THE DISCHARGE TEMPERATURE DROPS BELOW 50°F. IF THE LEAVING AIR TEMPERATURE DROPS BELOW THIS SUPPLY AIR SET POINT, THE ECONOMIZER LOW LIMIT FUNCTION IS DISABLED IN ORDER TO CYCLE OFF MECHANICAL COOLING MORE RAPIDLY. THE LOW LIMIT FUNCTION IS DISABLED WHEN THE ECONOMIZER ALONE CAN SATISFY THE LOAD.

AT OUTDOOR AIR CONDITIONS ABOVE THE ENTHALPY CONTROL SETTING, MECHANICAL COOLING IS USED AND THE OUTDOOR AIR DAMPERS REMAIN AT MINIMUM AIR FLOW POSITION.

IF THE HUMIDITY LEVEL IN THE SPACE RISES ABOVE 60%RH AT ANY TIME, THE OUTDOOR AIR DAMPERS SHALL CLOSE TO THE MINIMUM OUTSIDE AIR POSITION AND THE LEAVING AIR TEMPERATURE SHALL BE RESET TO 50°F. THE TERMINAL UNITS SHALL MAINTAIN SPACE TEMPERATURES UNTIL THE RELATIVE HUMIDITY IN THE SPACE DROPS BELOW 55%RH AS DETECTED BY THE RETURN AIR DUCT HUMIDITY SENSOR.

THE EXHAUST AIR FANS WILL FUNCTION TO MAINTAIN A CONSTANT POSITIVE BUILDING PRESSURE BALANCE OF 0.05" AND A MINIMUM OUTDOOR AIR FLOW RATE ACCORDING TO CO2 LEVEL SENSOR MOUNTED IN THE COMMON RETURN TO EACH ROOFTOP UNIT RETURN AIR DUCT WHEN NOT IN THE ECONOMIZER MODE.. FANS SHALL BE INTERLOCKED WITH THE OPERATION OF RTU-1.

CO2 LEVEL SENSORS IN THE RETURN AIR DUCT OF EACH ROOFTOP UNIT SHALL CONTROL THE OUTSIDE AIR DAMPER TO A MINIMUM UNTIL SUCH TIME AS THE CO2 LEVEL DETECTED EXCEEDS 500 PPM ABOVE THE OUTDOOR LEVEL. WHEN THIS LEVEL IS EXCEEDED THE MINIMUM OUTSIDE AIR DAMPER SHALL MODULATE OPEN IN 25% INCREMENTS ONCE EVERY 15 MINUTES UNTIL THE CO2 LEVEL IS DECREASED BELOW THE SETPOINT.

MORNING WARM UP -

IF, AT THE SCHEDULED START TIME OR OPTIMUM START TIME, THE RETURN AIR TEMPERATURE FROM THE SPACES IS BELOW 70°F (ADJ.), THE MORNING WARM UP CYCLE SHALL BE ENGAGED.

THE RTU SHALL ENERGIZE AND RUN IN HEATING MODE. ONCE SPACE TEMPERATURE IS REACHED, THE FANS SHALL CONTINUE TO OPERATE AND THE HEAT MODE IS DISABLED.

WHEN ON THE MORNING WARM UP CYCLE, THE COLD DECK DAMPERS OF THE VAV UNITS SHALL CYCLE OPEN TO DISCHARGE WARM AIR INTO THE VARIOUS SPACES. WHEN THE MORNING WARM UP CYCLE FOR THE AHU IS SATISFIED AND DISENGAGED, THE VAV UNITS SHALL RETURN TO NORMAL OPERATION.

WHEN THE BUILDING RETURN AIR DUCT TEMPERATURE RISES TO 70°F (ADJ.), THE UNIT OPERATION SHALL AUTOMATICALLY SWITCH TO NORMAL OPERATION, EITHER COOLING BY ECONOMIZER CYCLE OR D-X COOLING.

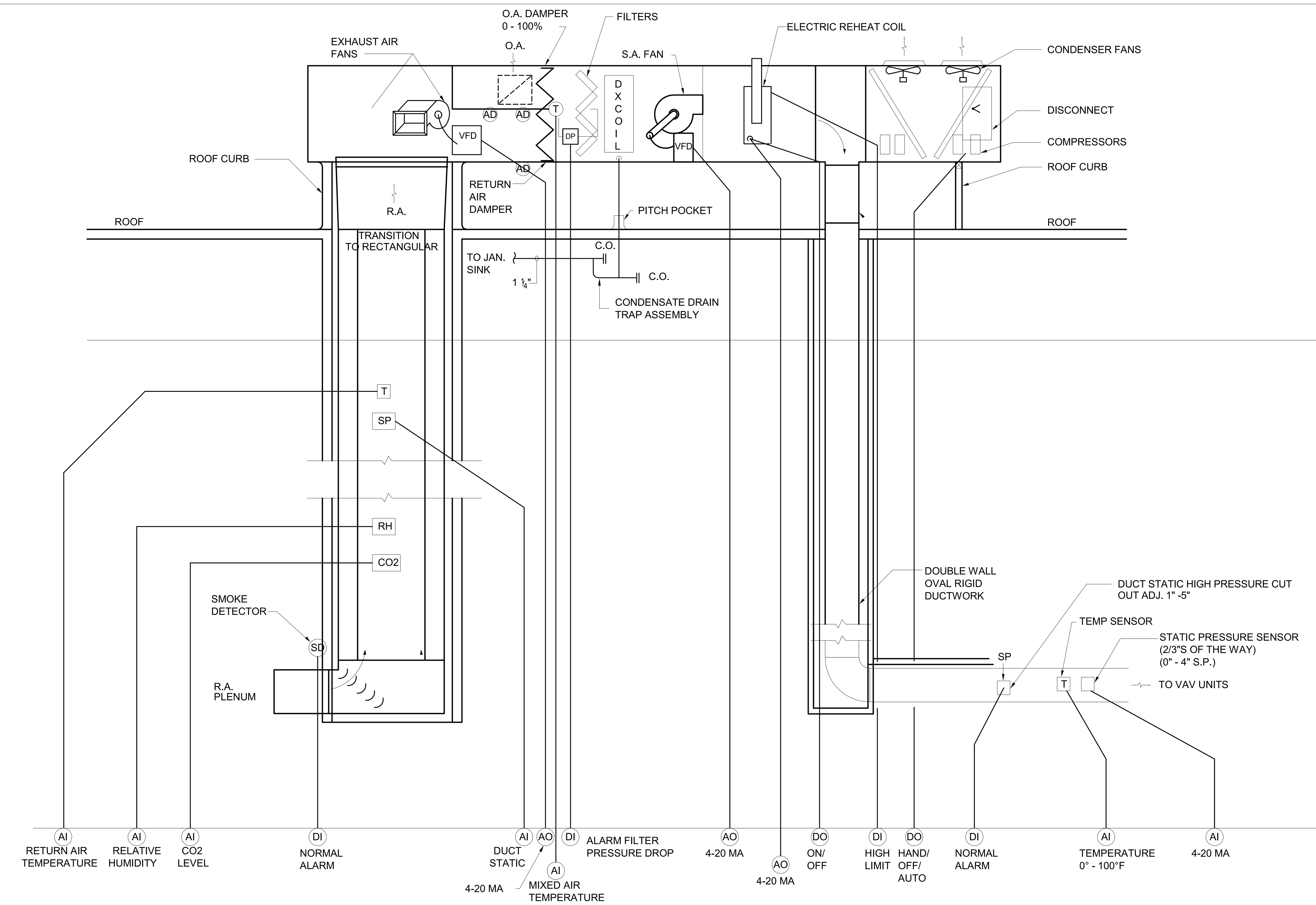
DURING MORNING WARM UP CYCLE, THE O.A. DAMPER SHALL BE CLOSED TO ITS MINIMUM AIR FLOW POSITION.

THE UNITS SHALL BE OPERATED THROUGH THE 7-DAY TIME PROGRAM. LOCATE THE CONTROL PANEL ON THE WALL IN AN OPEN AREA OF THE IT ROOM. COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.

2 HOUR (ADJUSTABLE) ZONE OVERRIDE SWITCHES (SINGLE PUSH BUTTON WITH ENGRAVED LABEL) LOCATED CONVENIENTLY THROUGHOUT THE SPACE TO SERVE SPECIFIC ZONES AND THEIR RESPECTIVE ROOFTOP UNITS SHALL BE USED TO OPERATE THE UNITS DURING THE UNOCCUPIED PERIODS. THEY SHALL BE WALL MOUNTED IN LOCATIONS AS SHOWN ON THE FLOOR PLANS AND SHALL RETURN ALL TERMINAL UNITS WITHIN THE OUTLINED PERIMETERS TO THE OCCUPIED MODE FOR THIS PREPROGRAMMED PERIOD OF TIME.

A SMOKE DETECTOR LOCATED IN THE RETURN AIR DUCT SYSTEM SHALL DE-ENERGIZE THE UNIT AND ALL ASSOCIATED VAV OR FPU'S WHEN SMOKE IS DETECTED, AND SEND A SIGNAL TO A LOCAL AUDIBLE/VISUAL ALARM LOCATED AT THE NURSES STATION.]

PROVIDE A VISUAL AND AUDIBLE ALARM AT THE RECEPTION DESK AND AT THE CENTRAL NURSE STATION. IF THE DUCT SMOKE DETECTOR MEASURES SMOKE, THE ALARM SHALL ENERGIZE. PROVIDE LABEL ON ALARMS TO INDICATE IT IS TIED INTO THE ROOF TOP UNIT SMOKE DETECTOR.



PROCESS DIAGRAM - ROOFTOP A/C UNIT

NTS

POINT LIST

	HARDWARE																				SOFTWARE																												
	OUTPUT								INPUT												ALARMS							BAS FUNCTIONS																					
	DIGITAL				ANALOG				DIGITAL						ANALOG						DIGITAL			ANALOG																									
SYSTEM: ROOFTOP AIR CONDITIONING UNITS RTU-1 POINT DESCRIPTION	CONTROL RELAY	ON-OFF	CONTACTOR DDC	BUILDING TO INTERFACE	PNEUMATIC TRANSDUCER	ELECTRICAL TRANSDUCER	SPEED		PRESSURE SWITCH	FLOW SWITCH	SWITCH CLOSURE	AUXILIARY CONTACT	KW	STATUS, ON/OFF	TEMPERATURE	RELATIVE HUMIDITY	PSid, PSia, PSid	CO2 LEVEL, PPM	FLOW	AMPS	EQUIPMENT STATUS	MAINTENANCE		HIGH LIMIT	LOW LIMIT	RUN TIME	SENSOR FAIL	SCHEDULED START/STOP	OPTIMUM START	DUTY CYCLING	DEMAND LIMITING	DAY/NIGHT SETBACK	ECONOMIZER	VENTILATION/RECIRCULATION	TEMPERATURE CONTROL	ENTHALPY	COLD DECK RESET	REHEAT COIL RESET	MORNING WARM-UP							VAV CONTROL	LIGHTING CONTROL	SMOKE	
CONTROLLER																					•	•																											
SUPPLY FAN				•			•							•										•				•	•				•		•		•										•	•	
DUCT STATIC						•											•																																
V.F. DRIVE						•	•																																										
FILTER									•																																								
RTU ENTERING AIR															•									•	•		•																						
RTU SUPPLY AIR															•									•	•		•																						
SPACE/ZONE															•									•	•		•																						
COMPRESSOR 1			•											•																																			
COMPRESSOR 2			•											•																																			
COMPRESSORS 3 & 4			•											•																																			
COMMON TROUBLE																																																	
RESET			•																																														
EXHAUST AIR FAN				•			•										•																															•	
V.F. DRIVE									•																																								
HUMIDITY						•										•								•			•																						
CO2 SENSOR						•												•						•			•																						

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SHEET BY Author

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M500

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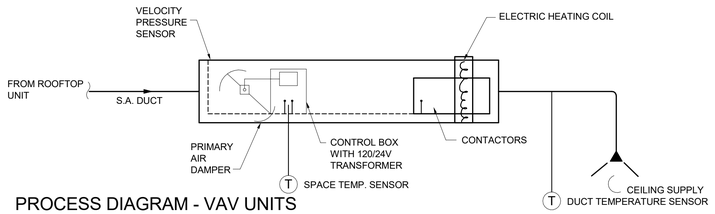

PROCESS DIAGRAM - VAV UNITS

SEQUENCES OF OPERATION

THROTTLING: A ROOM TEMPERATURE SENSOR SHALL MODULATE OPEN THE UNIT'S PRIMARY AIR DAMPER. UPON A RISE IN SPACE TEMPERATURE ABOVE SET POINT, THE VAV BOX DAMPER SHALL OPEN TO ITS MAXIMUM COOLING SETPOINT. ONCE COOLING SETPOINT HAS BEEN REACHED, THE DAMPER SHALL CLOSE DOWN TO ITS COOLING MINIMUM AIRFLOW. DAMPER SHALL MODULATE TO MAINTAIN COOLING SETPOINT.

HEATING: A DROP IN SPACE TEMPERATURE SHALL CAUSE THE UNITS PRIMARY AIR DAMPER TO MODULATE CLOSED UNTIL THE SCHEDULED MINIMUM AIR FLOW RATE IS REACHED. IF THE SPACE TEMPERATURE CONTINUES TO DROP, THE UNIT'S ELECTRIC STAGED HEATING COILS SHALL BE ENERGIZED TO MAINTAIN ROOM SET POINT TEMPERATURE. ONCE HEATING SETPOINT AS BEEN REACHED, THE ELECTRIC COIL SHALL DE-ENERGIZE AND BOX SHALL RETURN TO ITS MINIMUM COOLING AIRFLOW. AN AIR FLOW PROVING SWITCH SHALL PROHIBIT HEATER OPERATION WHEN THERE IS LESS THAN ADEQUATE AIR FLOW. UNITS SHALL BE SHUT DOWN WHEN SMOKE DETECTORS ARE ACTIVATED.

COOLING SETPOINT SHALL BE 75 DEG F (ADJ). HEATING SETPOINT SHALL BE 70 DEG F (ADJ).

NIGHT SET-BACK: IF THE ROOFTOP AIR UNIT IS OFF THE PRIMARY AIR DAMPER SHALL BE AT ITS MINIMUM POSITION. IF THE SPACE TEMPERATURE DROPS TO 60 DEGREES F(ADJ) THE UNIT'S PRIMARY AIR DAMPER SHALL OPEN AND HEATER SHALL AUTOMATICALLY START TO MAINTAIN SPACE CONDITIONS. WHEN SPACE CONDITION IS SATISFIED, THE UNIT SHALL RETURN TO ITS NORMAL POSITION. ASSOCIATED RTU UNITS SHALL START WHEN ANY VAV UNIT ENTERS NIGHT SET-BACK MODE. WHEN ALL VAV UNITS RETURN TO NORMAL, THE RTU'S WILL RETURN TO SCHEDULED OPERATION.

A SEPARATE ROOM TEMPERATURE SHALL BE PROVIDED FOR EACH TERMINAL UNIT.

A SEPARATE DUCT TEMPERATURE SENSOR SHALL BE PROVIDED IN THE SUPPLY AIR DISCHARGE DUCT 60" AWAY FROM THE DISCHARGE OF THE UNIT TO MONITOR BUT NOT CONTROL THE AIR TEMPERATURE.

POINT LIST

| | HARDWARE | | | | | | | | | | | | | | SOFTWARE | | | | | | | | | | | | | |

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION		ROUGH-IN-SIZE WASTE	VENT	CW	HW	REMARKS
P-1A	FLOOR MOUNTED, ADA COMPLIANT, WHITE, VITREOUS CHINA WITH BATTERY OPERATED 1.28 GPF FLUSH VALVE AND WHITE OPEN FRONT SEAT. PROVIDE 10 YEAR BATTERY.	WATER CLOSET: KOHLER HIGHCLIFF ULTRA K-96057-B, FLUSH VALVE: ZURN ZTR-6200-EV-LL SEAT: BEMIS B1955SSCT000 SEAT	4"	2"	1"	——	X
P-3	ADA COMPLIANT LAVATORY, WALL MOUNTED CAST IRON WITH METERING FAUCET. FAUCET IS HARDWIRED.	LAVATORY:KOHLER HUDSON K-2812-0 FAUCET: SLOAN EFX-300 FAUCET AND MIX-60A MIXING VALVE, 1.5 GPM.	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT, WALL CARRIER.
P-4	EXAM ROOMS: 18 GAUGE STAINLESS STEEL, DROP-IN SINGLE COMPARTMENT SINK, 15"x15"x7" WITH GOOSENECK FAUCET AND WRIST BLADE HANDLES	SINK: JUST SL-1515-A-GR FAUCET: CHICAGO 786-GN2317-E3TWCP, 4" WRIST BLADE HANDLES	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT.
P-4A	BREAK ROOM: 18 GAUGE STAINLESS STEEL DROP-IN TWO COMPARTMENT SINK, 33"x22"x6.5" ADA COMPLIANT WITH SINGLE HANDLE FAUCET AND SPRAYER.	SINK: JUSTDLN-ADA-1829-A-GR FAUCET: MOEN MODEL 8711, 1.5 GPM, SINGLE LEVER HANDLE.	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT.
P-4B	SOILED UTILITY SINK: WALL MOUNTED	SINK: KOHLER HUDSON K-2812-0 FAUCET: CHICAGO 786-GN2317-E3TWCP, 4" WRIST BLADE HANDLES	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT.
P-4C	LAB SINK: DROP IN SINGLE COMPARTMENT SINK	SINK:JUST SL-1617-A-GR FAUCET: CHICAGO 895-317-E29VP, 4" WRIST BLADE HANDLES	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT.
P-5	ELECTRIC WATER COOLER W/ BOTTLE FILLER. 8 GPH CAPACITY WITH FILTER.	BASIS OF DESIGN: ELKAY MODEL LZSTL8WSLP	2"	2"	1/2"	1/2"	SMITH 0831 WALL CARRIER CW SUPPLY, 17 GAUGE BRASS TRAP WITH CLEANOUT
P-6	MOP BASIN 24x24x12 TERRAZZO WITH STAINLESS STEEL CAPS, HOSE BRACKET AND SS WALL GUARDS. WALL MOUNTED FAUCET WITH VACUUM BREAKER	SINK: FIAT TBSC1610 FAUCET: T&S BRASS B-665 BSTP	3"	2"	3/4"	3/4"	INSTALL CHECK VALVES ON SUPPLIES SEE DETAIL
P-7	ANTI-SIPHON HOSE BIBB. PROVIDE SQUARE BOX WITH DOOR IN TOILET ROOMS.	BASIS OF DESIGN: WOODFORD MODEL 24P	——	——	1/2"	——	
P-7A	ANTI-SIPHON WALL HYDRANT. PROVIDE SQUARE BOX WITH DOOR	BASIS OF DESIGN: WOODFORD B67	——	——	3/4"	——	
P-7B	ANTI-SIPHON ROOF HYDRANT. PROVIDE SQUARE BOX WITH DOOR	BASIS OF DESIGN: WOODFORD SRH-MS	——	——	3/4"	——	
P-9a	RECESSED ICEMAKER BOX WITH WATER HAMMER ARRESTOR	BASIS OF DESIGN: SIOUX CHIEF 696RG1010MF	——	——	1/2"	——	
P-10	EMERGENCY EYEWASH - LAB EYEWASH/DRENCH HOSE UNIT - ANSI Z358.1 COMPLIANT	BASIS OF DESIGN: GUARDIAN G5022 WITH TMV THERMOSTATIC MIXING VALVE	-	-	1/2"	1/2"	INSTALL AT CLEAN SINK IN LAB.
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE TOP	BASIS OF DESIGN: ZURN ZN415B	3"	2"	——	——	PROVIDE FLOOR DRAINS WITH SURE SEAL MODEL SS3009V OR EQUAL.
FCO	FLOOR CLEANOUT -	BASIS OF DESIGN: WATTS MODEL CO-200	-	——	——	——	SEE FLOOR PLANS FOR SIZE
WCO	WALL CLEANOUT -						

NOTE:
* SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FIXTURES.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
——CW——	COLD WATER
——HW——	HOT WATER - 110°
——HWR——	HOT WATER RECIRCULATION
——V——	VENT
——SAN——	SANITARY SEWER
—— 140 ——	HOT WATER - 140°
——►——	FLOW ARROW
——|——	WALL HYDRANT/HOSE BIBB
——⋈——	SHUT-OFF VALVE (BALL VALVE)
——|▽|——	HWR CIRCUIT SETTER OR GAS COCK
——◥——	CHECK VALVE
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
C.O.T.G.	CLEANOUT TO GRADE
VTR	VENT THRU ROOF
DROP RISE	DROP OR RISE
——⊐	CAPPED CONNECTION
FD ——⊠——	FLOOR DRAIN
——⊙◄——	VALVE IN RISER
8 / P0.04	DETAIL SYMBOL INDICATING THE DETAIL NUMBER AND THE DETAIL LOCATION SHEET REFERENCE
CW	COLD WATER
HW	HOT WATER
BFF	BELOW FINISHED FLOOR
AFF	ABOVE FINISHED FLOOR
WHA	WATER HAMMER ARRESTOR
——⋈——	BALL VALVE
——◁——	SOLENOID VALVE
FD	FLOOR DRAIN
TMV	THERMOSTATIC MIXING VALVE
HP	HORSEPOWER
PH	PHASE
RPM	REVOLUTIONS PER MINUTE
KW	KILOWATT
GPM	GALLON PER MINUTE
CW	GENERAL CONTRACTOR
HWRP	HOT WATER RECIRCULATION PUMP

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	GALLONS STORAGE	GALLONS RECOVERY	KW INPUT	VOLTAGE	A.O.SMITH MODEL NUMBER	SERVICE	REMARKS
WH-1	50	27	6	208V, 3PH	DEN-50	140°	STORE WATER AT 140°F

NOTES:
1. HEATER BASED ON NON-SIMULTANEOUS OPERATION.
2. RECOVERY BASED ON 90 DEGREE F TEMPERATURE RISE.
3.

THERMOSTATIC MIXING VALVE SCHEDULE

SYMBOL	MINIMUM FLOW	MAXIMUM FLOW	PRESS. DROP @ MAX. FLOW	SELECTED ON LAWLER MODEL NUMBER	SERVICE	REMARKS
TMV-1	1 gpm	10 gpm	10 psi	801	115°	THERMOSTATIC MIXING VALVE SHALL BE PRESSURE BALANCING TYPE

THERMOSTATIC MIXING VALVE AND RECIRCULATION PUMP SHALL BE PART OF A PRE-PIPED DIGITAL CONTROL AND MONITORING RECIRCULATION SYSTEM . BASIS OF DESIGN IS THE LAWLER MODEL SEA BASIC OR EQUAL.

THE THERMOSTATIC MIXING VALVE SHALL BE CAPABLE OF RESPONDING TO THE FOLLOWING THREE CONDITIONS AND MAINTAINING THE WATER TEMPERATURE OR PREVENTING ANY END USER SCALDING:

1. SYSTEM SHUTDOWN IF THE LIQUID MOTOR FAILS.

2. AUTOMATIC CHANGES DUE TO HOT WATER TEMPERATURE FLUCTUATIONS.

3. SYSTEM SHUTDOWN IF THE COLD WATER SUPPLY IS INTERRUPTED.

HOT WATER RECIRCULATION PUMP SCHEDULE

SYMBOL	SERVICE	GPM	HEAD	HP	VOLT	PH	RPM	B&G MODEL NUMBER	REMARKS
HWRP-1	HOT WATER RECIRC.	4	20	1/6	120	1	1750	PL-36	MAINTAIN 5°F DT OVER SYSTEM. PROVIDE DISCONNECT.

DRAWING LIST - PLUMBING

Sheet Number	Sheet Name
P001	PLUMBING NOTES, SYMBOLS, SCHEDULES
P002	PLUMBING DETAILS
P101	FIRST FLOOR PLAN - PLUMBING - HOT AND COLD WATER
P102	FIRST FLOOR PLAN - PLUMBING - WASTE AND VENT PIPING
P201	PLUMBING ISOMETRIC- HOT AND COLD WATER
P202	PLUMBING ISOMETRIC - WASTE AND VENT

MOTOR CONTROL SCHEDULE

MOTOR DESIGNATION	UNIT USE	POWER SOURCE	RATING HORSEPOWER (KW)	RATING VOLTAGE	RATING PHASE	MOTOR LOCATION	MOTOR STARTER TYPE	MOTOR STARTER LOCATION	MOTOR STARTER FURNISHED BY	MOTOR STARTER INSTALLED BY	MOTOR STARTER WIRED THRU STARTER TO MOTOR	AUXILIARY CONTROL DEVICES ITEM	AUXILIARY CONTROL DEVICES LOCATION	AUXILIARY CONTROL DEVICES FURNISHED BY	AUXILIARY CONTROL DEVICES INSTALLED BY	AUXILIARY CONTROL DEVICES WIRED BY
HWRP-1	HOT WATER RECIRCULATION	NORMAL	1/6	120	1	MECHANICAL ROOM	MANUAL	JANITORS CLOSET	PC	PC	EC	AQUASTAT	ON HOT WATER RETURN	PC	PC	EC

ABBREVIATIONS:

P.C.	PLUMBING CONTRACTOR	FVNR	FULL VOLTAGE NON-REVERSING - MAGNETIC	AUX	AUXILIARY CONTACTS
E.C.	ELECTRICAL CONTRACTOR	ALT	ALTERNATOR	MANUAL	MANUAL ON/OFF

MOTOR CONTROL SCHEDULE NOTES

1. THE ABOVE LISTED SCHEDULE OUTLINES THE MAJOR MOTOR LOADS, STARTERS AND THEIR ASSOCIATED AUXILIARY CONTROL DEVICES. IN NO CASE IS THIS SCHEDULE MEANT TO ONLY INDICATE ALL DEVICES, BUT TO ASSIST THE DIVISION 22 CONTRACTORS IN CLARIFYING THEIR SCOPE OF WORK. UNIT HEATERS, ETC. MISCELLANEOUS MOTORS MAY NOT BE REPRESENTED. ALL STARTERS SHALL BE SIZED FOR PROPER OPERATION AND IN CASES WHERE MC WIRES A DEVICE, WIRING AND CONDUIT SHALL BE SIZED PER LATEST EDITION OF N.E.C.

2. STARTER TYPE (PROVIDED BY MC OR PC)
   A. (FVNR) (INTEGRAL WITH UNIT) FULL VOLTAGE, NON-REVERSIBLE MAGNETIC STARTERS FURNISHED AS PART OF THE UNIT AND CIRCUIT BREAKER OR EQUIVALENT AS ACCEPTED BY A-E. WIRING FROM STARTER TO MOTOR SHALL BE PROVIDED BY EQUIPMENT MANUFACTURER.

THE CONTROLS CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR THE BELOW LISTED MONITORING FUNCTIONS AND PROVIDE ALL NECESSARY WIRING AND DEVICES REQUIRED TO DISPLAY THE MONITORING FUNCTIONS.

THE BAS CONTRACTOR SHALL WRITE AND IMPLEMENT ALL PROGRAMMING STRATEGIES.

THE CONTROL SYSTEM COMPONENTS SHALL BE BACNET,OVER ETHERNET, LON OR MODBUS RTU.
PROVIDE THE FOLLOWING MONITORING FUNCTIONS:

b. HOT WATER RETURN PUMP HWRP-1

- PUMP ON - PROGRAMMED BY THE OWNER
- PUMP OFF - PROGRAMMED BY THE OWNER

GENERAL NOTES:

1. ALL OPENINGS FOR PIPING PENETRATIONS ARE GENERALLY PROVIDED BY THE PLUMBING SUB-CONTRACTOR. EXCEPTIONS ARE COVERED BY NOTES AND DETAILS. THE LOCATION AND SIZE OF EACH OPENING SHALL BE FURNISHED TO THE GENERAL CONTRACTOR BY THE PLUMBING SUB-CONTRACTOR.
2. PIPE HANGERS AND CONCRETE INSERTS UTILIZED FOR THIS PROJECT SHALL BE PROVIDED BY THE PLUMBING SUB-CONTRACTOR. THIS INCLUDES ALL SUPPLEMENTAL STEEL, ETC.
3. UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT, NO BURIED PIPING UNDER THE SLAB SHALL BE INSTALLED WITHIN THE FOOTING BEARING.
4. SLEEVES FOR PIPING PASSING THROUGH BELOW SLAB FOUNDATION WALLS SHALL BE COORDINATED AND PROVIDED BY THE PLUMBING SUB-CONTRACTOR.
5. ALL LINTELS REQUIRED IN MASONRY AND STUD WALLS FOR PIPING PENETRATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
6. COORDINATE VERTICAL PIPING WITH ARCHITECTURAL PLANS FOR EXACT LOCATION OF RISER.
7. UNLESS APPROVED BY THE ENGINEER, NO HORIZONTAL PIPING IN THE MECHANICAL ROOM, SHALL BE INSTALLED WITH A BOTTOM OF PIPE ELEVATION BELOW 8'-0"AFF.
8. ALL BURIED PRESSURE PIPING SHALL BE A MINIMUM OF 24" BELOW FINISHED GRADE TO TOP OF PIPE.
9. INSTALL ALL HANDICAP TOILET FLUSH VALVES ON THE WIDE SIDE OF THE TOILET.
10. COORDINATE THE INVERT ELEVATIONS WITH THE SITE UTILITY DRAWINGS. THE INVERT INDICATED ON THE PLUMBING DRAWINGS IS THE MINIMUM INVERT TO EXIT THE BUILDING. THE PLUMBING SUB-CONTRACTOR SHALL COORDINATE, VERIFY AND PROVIDE THE INVERT ELEVATIONS ON THE COORDINATION DRAWINGS.
11. THE PLUMBING SUB-CONTRACTOR IS REQUIRED TO COMPLETELY ROD AND FLUSH OUT ALL SANITARY, GREASE WASTE PIPING AFTER THE BUILDING IS COMPLETED.
12. REFER TO SPECIFICATIONS REGARDING VIDEO INSPECTIONS OF SANITARY, GREASE WASTE AND STORM DRAINAGE PIPING.
13. THE PLUMBING SUB-CONTRACTOR IS REQUIRED TO PROVIDE DETECTABLE WARNING TAPE AND TRACER WIRE FOR UNDERGROUND WATER DISTRIBUTION AND ALL DRAINAGE PIPING WITHIN THE SCOPE OF THIS CONTRACT.
14. ALL PLUMBING VENTS SHALL BE INSTALLED AT A MINIMUM OF 15'-0" FROM ANY FRESH AIR INTAKES.
15. REFER TO THE SPECIFICATIONS FOR WATER SUPPLY AND P-TRAP INSULATION REQUIRED FOR ALL EXPOSED ADA SINK AND LAVATORY LOCATIONS.
16. ALL NATURAL GAS PIPING BY PLUMBING CONTRACTOR.
17. PROVIDE LABEL ON CEILING GRID FOR ALL VALVE LOCATIONS.
18. ALL SANITARY PIPING BELOW GRADE SHALL BE PVC. ALL VENT PIPING ABOVE GRADE SHALL BE GALVANIZED STEEL. MATERIALS ABOVE CEILING SHALL BE PLENUM RATED.
19. A DRIP PAN SHALL BE INSTALLED UNDER PIPING WHERE PIPING RUNS OVER A CABLE TRAY.
20. PROVIDE HOT AND COLD WATER ISOLATION VALVES ON EACH FLOOR.
21. INSTALL TRACER WIRE ABOVE INTERCEPTORS AND ASSOCIATED PIPING.
22. PROVIDE PULSE METER TYPE ON GAS METER. COORDINATE WITH UTILITY COMPANY.
23. PROVIDE GROUT AROUND WATER CLOSETS. CAULK IS NOT PERMITTED.
24. PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.
25. THE HOT WATER RECIRCULATION SYSTEM SHALL BE BALANCED. SUBMIT REPORT TO ARCHITECT.

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date

CONSTRUCTION DOCUMENTS

PLUMBING NOTES, SYMBOLS, SCHEDULES

ISSUE DATE 08/11/2022
CHECKED JLC
SHEET BY JF
PROJECT NUMBER 21-025

P001

BIM 360://21-025 Novant MJ Clinic Wilmington/PLUMBING 064.00 Novant MJ Clinic - Greenfield CMTA.rvt
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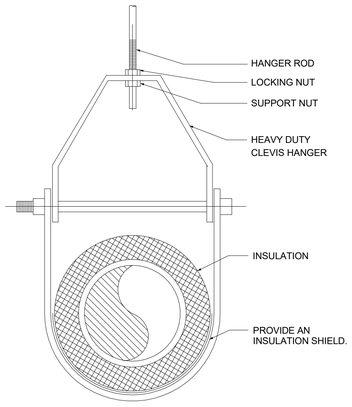
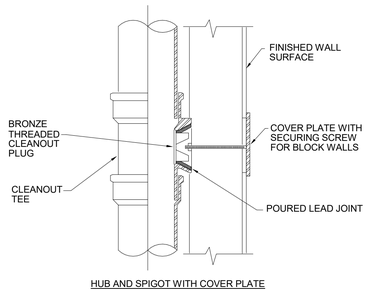


MAXIMUM PIPE SUPPORT SPACING				
	HORIZONTAL			VERTICAL
PIPE SIZE	1"	1¼"	1½" AND LARGER	ALL PIPE SIZES
COPPER PIPING	6 FT		10 FT	10 FT
PIPE SIZE	ALL PIPE SIZES			ALL PIPE SIZES
CAST IRON PIPING	5 FT. (10 FT WHERE 10 FOOT LENGTH OF PIPE ARE USED)			15 FT
PIPE SIZE	ALL PIPE SIZES			ALL PIPE SIZES
STEEL PIPING	12 FT			15 FT

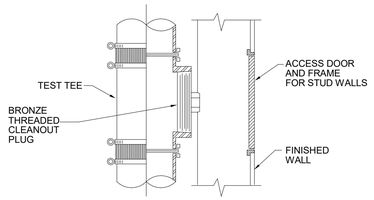
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE.

REFER TO THE GAS PIPING HANGER SCHEDULE FOR GAS PIPING.

7 P002 — CLEVIS HANGER DETAIL
SCALE: NONE

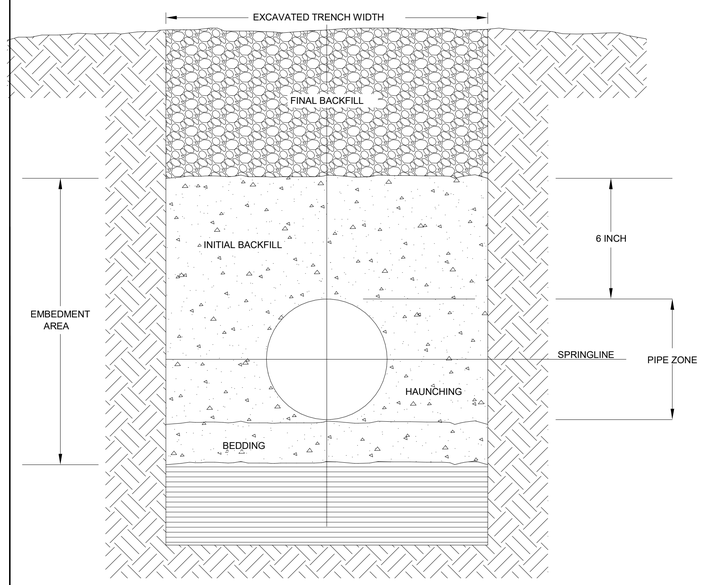


HUB AND SPIGOT WITH COVER PLATE



NO-HUB WITH ACCESS COVER

5 P002 — WALL CLEANOUT DETAIL
SCALE: NONE



UNDERGROUND INSTALLATION OF PLASTIC PIPE

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

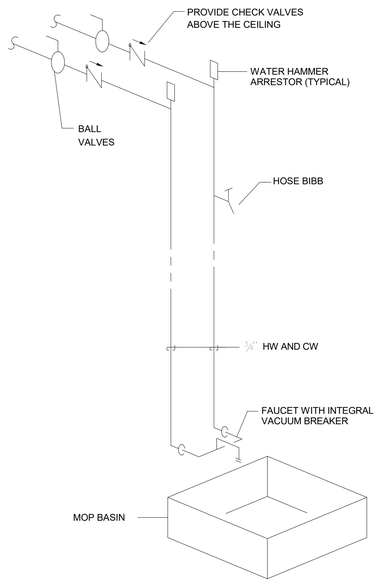
ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

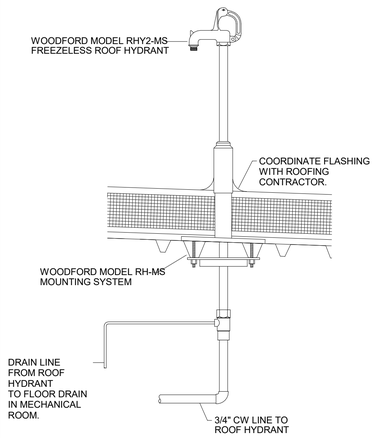
RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH. BEDDING SHALL BE CLEAN SAND.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

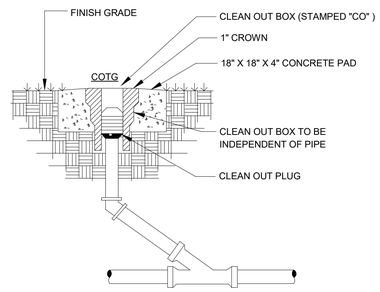
2 P002 — UNDERGROUND PCV PIPE INSTALLATION DETAIL
SCALE: NONE



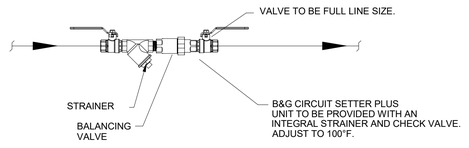
8 P002 — MOP BASIN DETAIL
SCALE: NONE



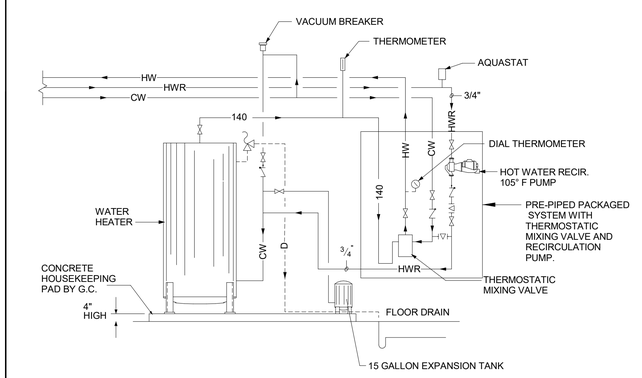
6 P002 — ROOF HYDRANT DETAIL
SCALE: NONE



3 P002 — EXTERIOR CLEANOUT DETAIL (COTG)
SCALE: NONE



4 P002 — HOT WATER RETURN BALANCING VALVE DETAIL
SCALE: NONE SCALE: NONE



1 P002 — ELECTRIC HEATER PIPING DETAIL
SCALE: NONE

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221.064 08/11/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET,
WILMINGTON, NC 28401

No.	Description	Date

CONSTRUCTION DOCUMENTS

PLUMBING DETAILS

ISSUE DATE 08/11/2022
CHECKED JLC
SHEET BY JF
PROJECT NUMBER 21-025

P002

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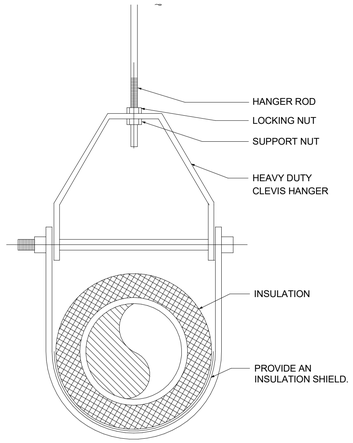

MAXIMUM PIPE SUPPORT SPACING				
	HORIZONTAL			VERTICAL
PIPE SIZE	1"	1¼"	1½" AND LARGER	ALL PIPE SIZES
COPPER PIPING	6 FT		10 FT	10 FT
PIPE SIZE	ALL PIPE SIZES			ALL PIPE SIZES
CAST IRON PIPING	5 FT. (10 FT WHERE 10 FOOT LENGTH OF PIPE ARE USED)			15 FT
PIPE SIZE	ALL PIPE SIZES			ALL PIPE SIZES
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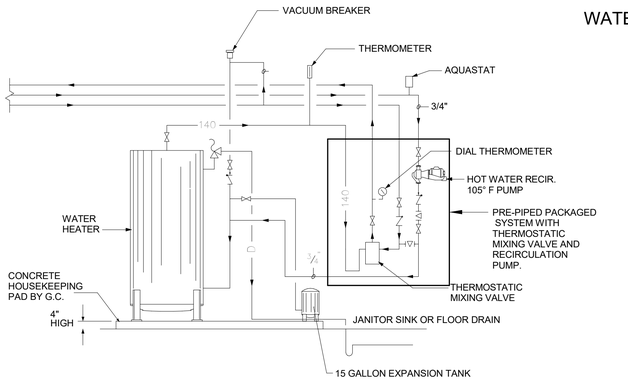
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE. REFER TO THE GAS PIPING HANGER SCHEDULE FOR GAS PIPING.				

CLEVIS HANGER DETAIL

SCALE:NONE



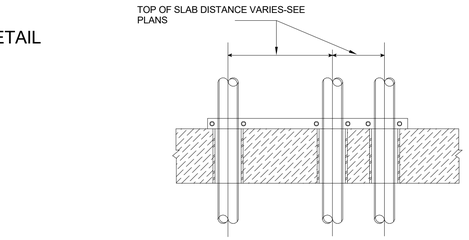
ELECTRIC HEATER PIPING DETAIL

SCALE:NONE

UNDERGROUND PVC INSTALLATION DETAIL

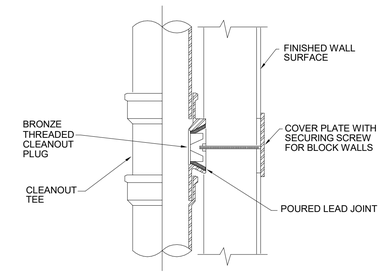
MOP SINK

WATER ENTRANCE

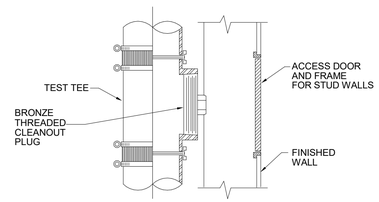


VERTICAL PIPE SUPPORT DETAIL

NTS



HUB AND SPIGOT WITH COVER PLATE



NO-HUB WITH ACCESS COVER

8	WALL CLEANOUT DETAIL
P003	SCALE: NONE

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C-4556

Michael Jordan Family Medical Clinic - Wilmington

No.	Description	Date

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PLUMBING DETAILS

ISSUE DATE: APRIL 26, 2022
CHECKED: Checker
SHEET BY: Author
PROJECT NUMBER: 21-025

P003

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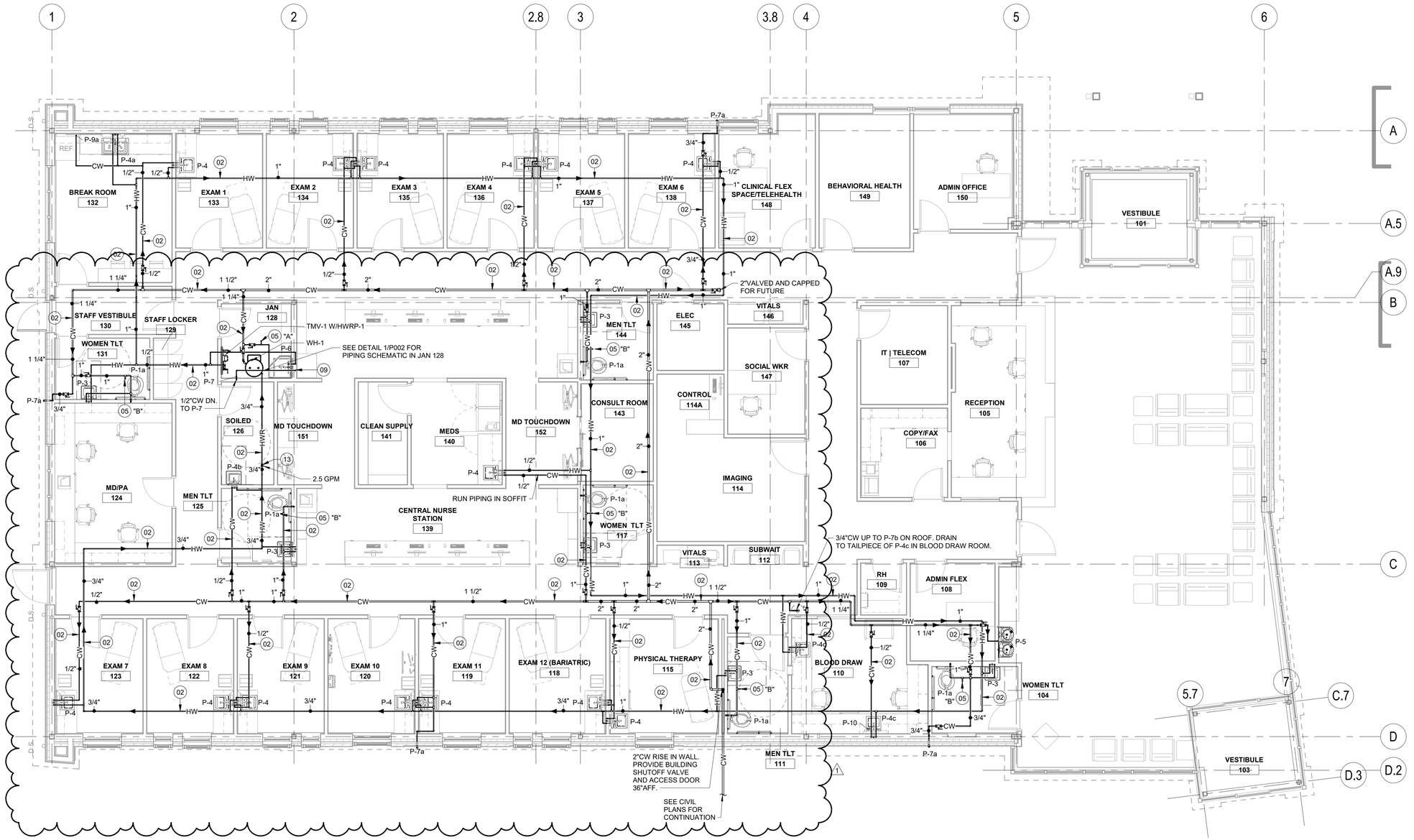
6/15/2022 9:45:07 AM

Keynote Legend	
Key Value	Keynote Text
02	PIPING ROUTED WITHIN THE CEILING CAVITY WHERE LAY-IN OR HARD CEILINGS ARE INDICATED ON THE ARCHITECTURAL DRAWINGS. PIPING ROUTED EXPOSED AT THE STRUCTURE ABOVE WHERE EXPOSED CEILING CONDITIONS EXIST.
05	SHOCK ABSORBER SIZED PER PDI STANDARDS. THE SIZE OF THE SHOCK ABSORBER IS LOCATED ADJACENT TO THE KEYED NOTE. SHOCK ABSORBERS SHALL BE EXTENDED TO A POINT ABOVE THE CEILING AND PROVIDED WITH AN ACCESS PANEL AT HARD CEILING LOCATIONS.
09	INSTALL CHECK VALVES ON 1/2" CW/HW PIPES.
13	CIRCUIT SETTER WITH BALL VALVES. SET BALANCE TO 2.5 GPM. SEE DETAIL ON DRAWING P002.



1 P101 FIRST FLOOR PLAN - PLUMBING - HOT AND COLD WATER PIPING
3/16" = 1'-0"

3/16" = 1'-0" 2' 0 2' 4' 8'

neighboring concepts
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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

221.064 10/28/2022

NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date
1	Clarifications and Updates	10/28/22

CONSTRUCTION DOCUMENTS

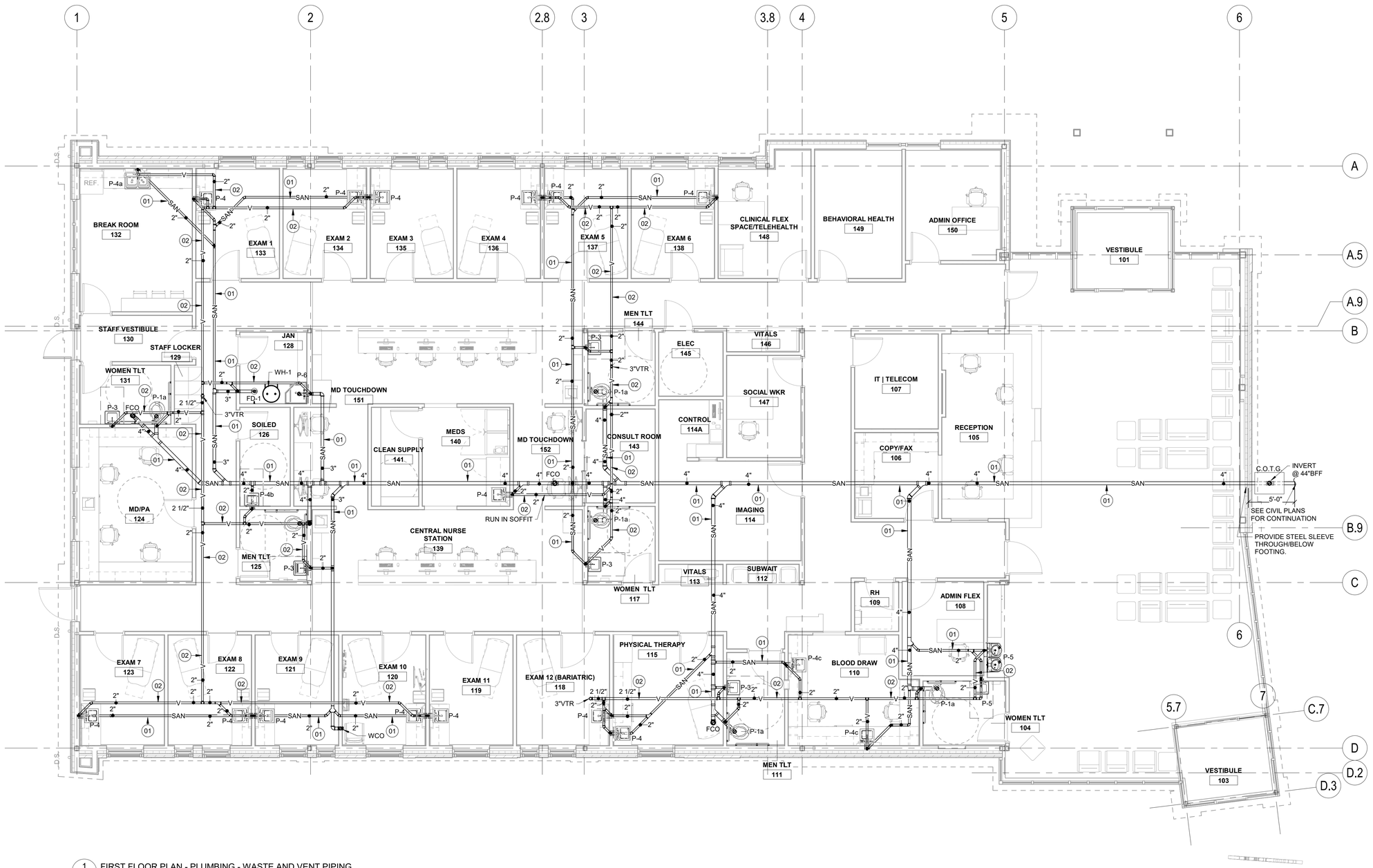
FIRST FLOOR PLAN - PLUMBING - HOT AND COLD WATER

ISSUE DATE 08/11/2022
CHECKED JLC
SHEET BY JF
PROJECT NUMBER 21-025

P101

10/28/2022 1:37:57 PM BIM 360://21-025 Novant MJ Clinic Wilmington/PLUMBING 064.00 Novant MJ Clinic - Greenfield CMTA.rvt

Keynote Legend	
Key Value	Keynote Text
01	PIPING ROUTED BELOW THE FINISHED SLAB OR BELOW THE FINISHED GRADE.
02	PIPING ROUTED WITHIN THE CEILING CAVITY WHERE LAY-IN OR HARD CEILINGS ARE INDICATED ON THE ARCHITECTURAL DRAWINGS. PIPING ROUTED EXPOSED AT THE STRUCTURE ABOVE WHERE EXPOSED CEILING CONDITIONS EXIST.



1 P102 FIRST FLOOR PLAN - PLUMBING - WASTE AND VENT PIPING
3/16" = 1'-0"

3/16" = 1'-0" 2' 0 2' 4' 8'

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1423 GREENFIELD STREET,
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No.	Description	Date

CONSTRUCTION DOCUMENTS

FIRST FLOOR PLAN - PLUMBING - WASTE AND VENT PIPING

ISSUE DATE 08/11/2022
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PROJECT NUMBER 21-025

P102

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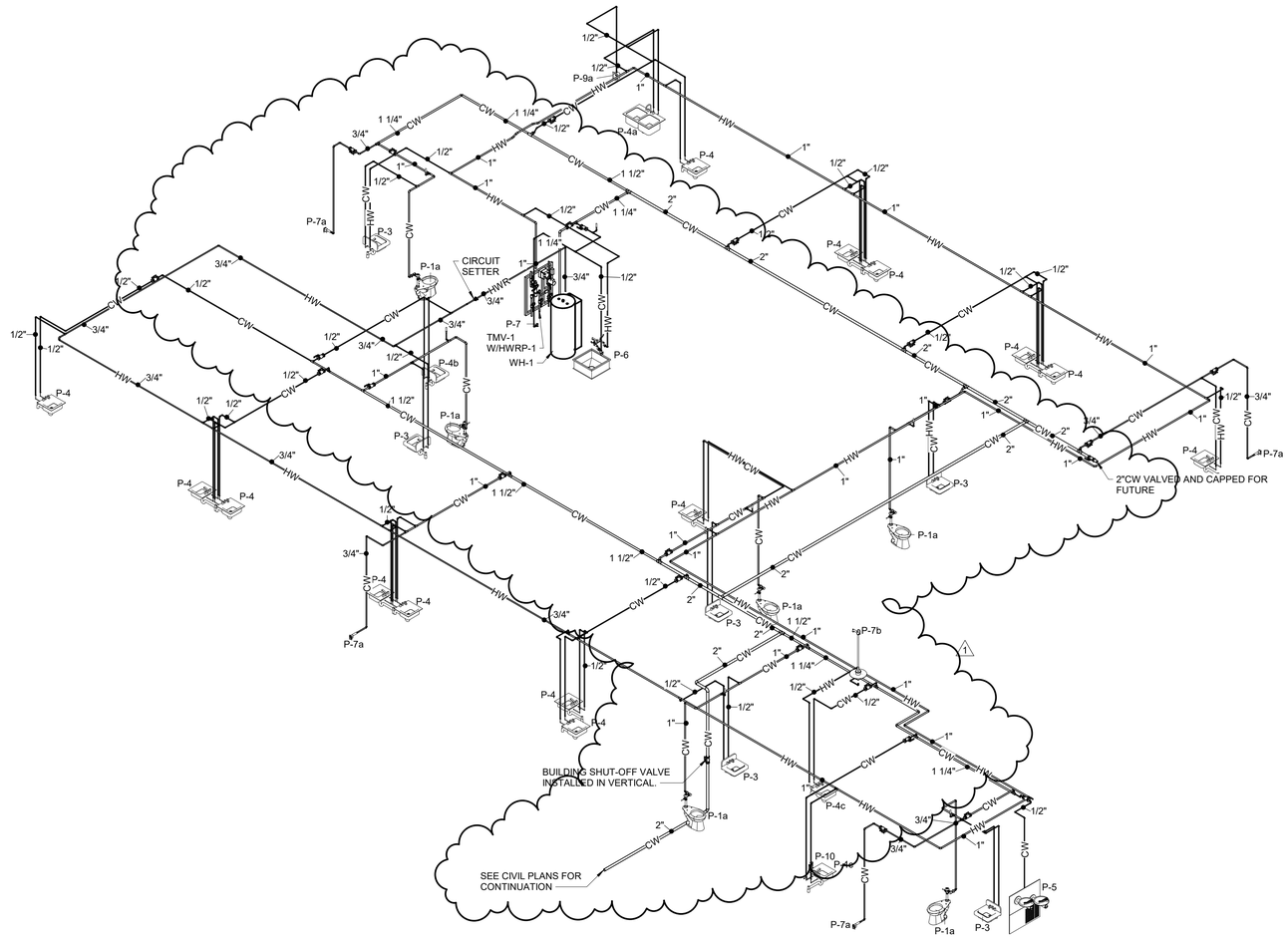

1 P201 ISOMETRIC PLAN - HOT AND COLD WATER PIPING

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No.	Description	Date
1	Clarifications and Updates	10/28/22

CONSTRUCTION DOCUMENTS

PLUMBING ISOMETRIC-HOT AND COLD WATER

ISSUE DATE 08/11/2022
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PROJECT NUMBER 21-025

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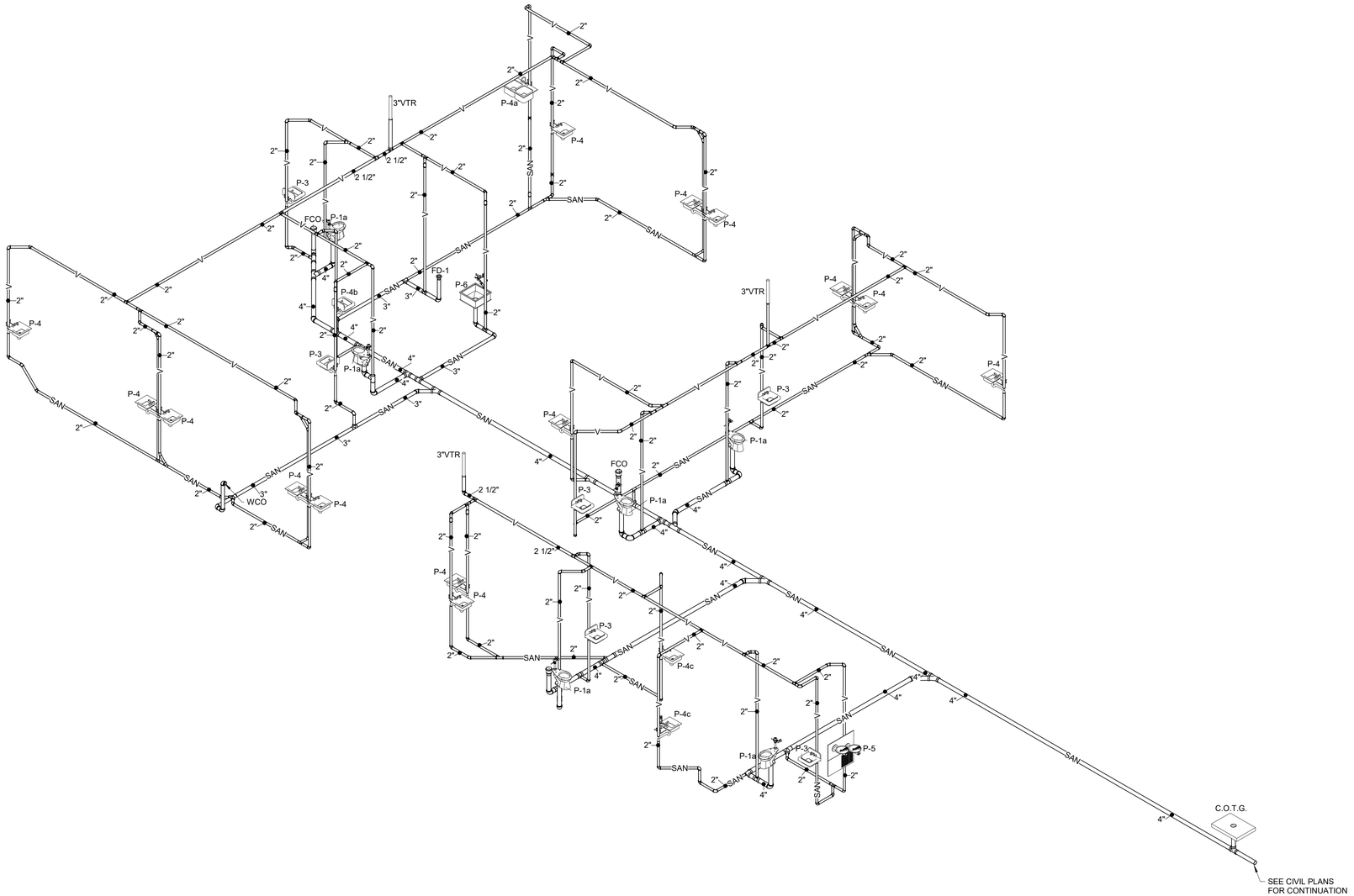

1 P202 ISOMETRIC PLAN - WASTE AND VENT PIPING

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NOVANT HEALTH FAMILY MEDICAL CLINIC - GREENFIELD

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No.	Description	Date

CONSTRUCTION DOCUMENTS

PLUMBING ISOMETRIC - WASTE AND VENT

ISSUE DATE 08/11/2022
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SHEET BY JF
PROJECT NUMBER 21-025

P202

8/11/2022 8:11:02 AM BIM 360://21-025 Novant MJ Clinic Wilmington/PLUMBING 064.00 Novant MJ Clinic - Greenfield CMTA.rvt

1.0 CODES AND STANDARDS:

1.1 "2018 North Carolina State Building Code" and "International Building Code", 2015.

1.2 "Minimum Design Loads for Buildings and other Structures" SEI/ASCE 7-16.

1.3 "Building Code Requirements for Structural Concrete (ACI 318-14)" American Concrete Institute 2014.

1.4 "Manual of Standard Practice", Concrete Reinforcing Steel Institute, latest edition.

1.5 "Specification for Structural Steel Buildings (AISC 360-10)" American Institute of Steel Construction, 2011 – 14th Edition

1.6 "Structural Welding Code – Steel (AWS D1.1)" and "Structural Welding Code – Reinforcing Steel (AWS D1.4)", American Welding Society.

1.7 "Specification for the Design of Cold-Formed Steel Structural Members", American Iron and Steel Institute (AISI), S100-12.

1.8 "Standard Specifications for Joist Girders (JG-10)", "Standard Specifications for Open Web Steel Joists, K-Series (k-10)", "Standard Specifications for Long Span Steel Joist, LH Series and Deep Longspan Steel Joists, DLH Series (LH/DLH-1.1)", Steel Joist Institute

1.9 "Design Manual For Floor Decks and Roof Decks", Steel Deck Institute, latest edition.

2.0 DESIGN LOADS:
Project Located in: City of Wilmington, County of New Hanover, State of North Carolina.

2.1 Risk Category = **II**

2.2 Gravity Loads: (Reduced where allowed)

GRAVITY LOADS		
Location	**Uniform (psf)**	**Concentrated (lbs) (Over 2.5'x2.5')**
Roof Loads:		
Dead Load	20	
Live Load	20	300

2.3 Drifting Snow Loads per References Code.

Pg = 10 psf
I = 1.0
Ce = 0.9
Ct = 1.0

2.4 Wind Loads per References Code.

Basic Design Wind Speed:
3-second Gust PER ASCE
Vult 146mph
Vasd 113mph
Exposure Category "B"

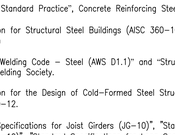
Main Wind Force Resisting System:
Building is enclosed & Internal Pressure coefficient (GCpi) = +0.18 & -0.18
Topographic Factor Kzt = 1.0
Wind Directionality Factor, Kd = 0.85

Calculated Wind Base Shear (Vult For MWFRS)
Vx = 56k Vy = 66k

Components and Cladding:

Components and Cladding Wind Pressure (psf)										
Walls	Area = 10ft²		Area = 20ft²		Area = 50ft²		Area = 100ft²		Area = 500ft²	
Zone 4	38.4	-41.5	36.7	-39.9	34.4	-37.6	32.6	-35.9	32.6	-35.9
Zone 5	38.4	-51.3	36.7	-47.9	34.4	-43.3	32.6	-39.9	32.6	-39.9
Roof	Area = 10ft²		Area = 20ft²		Area = 50ft²		Area = 100ft²		Area = 500ft²	
Zone 1	16.0	-61.1	16.0	-57.1	16.0	-51.8	16.0	-47.7	16.0	-47.7
Zone 1'	16.0	-35.1	16.0	-35.1	16.0	-35.1	16.0	-35.1	16.0	-35.1
Zone 2	16.0	-80.9	16.0	-75.4	16.0	-68.5	16.0	-63.4	16.0	-63.4
Zone 3	16.0	-109.8	16.0	-99.5	16.0	-85.8	16.0	-75.4	16.0	-75.4

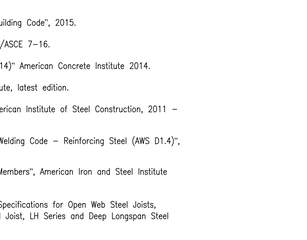
Notes:
1. Areas noted are effective wind areas as per ASCE 7-16, 26.2 definitions.
2. See figures below for Zone locations.
3. Plus and minus signs signify pressures acting toward and away from surfaces, respectively.
4. Design pressures shown in table are strength design wind pressures. Allowable stress design wind pressures may be calculated by factoring the pressures by 0.6.
5. Design pressures for effective wind areas between those noted in schedule may be interpolated.
6. Tributary area = greater of LxW or LxL/3.
7. Deflections may be calculated based on 42% of these loads.



COMPONENT & CLADDING ROOF PRESSURES

Flat Roof

h = 25ft "corner zone"



2.5 Seismic Loads per References Code.

Risk Category = **II**
Site class = "D" (Per Geotechnical Report)
Spectral Response Coefficients:
SS = 0.156g
S1 = 0.068g
SDS = 0.167g
SD1 = 0.109g
Cs = 0.055

Seismic Design Category = "B"
Seismic Importance Factor = 1.0
Basic Seismic – Force – Resisting System
Building Frame System – Steel Systems Not Specifically Detailed for Seismic Resistance

RX=RY=3.0, OX=OY=3.0, CDX=CDY=3.0
Design Base Shear Vx = Vy = 21k
Building Height Limit = NL
Analysis Procedure – 12.8.1 ASCE 7-16
Equivalent Lateral Force Procedure

2.6 Guardrail designed per References Code, Chapter 16 IBC
Guardrail:
Uniform load = 50 plf, any direction
Concentrated load = 200 lbs, any direction
Intermediate Rail: (all those except handrail)

2.7 Flood Loads:
Project is not located in a flood zone.

3.0 FOUNDATIONS:

3.1 Foundation design is based on geotechnical report 10705-2021050 by NOVA Engineering & Environmental Wilmington, NC dated October 4, 2021. This report is available in the project manual. The recommendations contained in this report are herein made part of the requirements of these contract documents.

3.2 Footings shall bear on strata capable of sustaining a minimum bearing pressure of 3000 psf.

3.3 Top of footing (T/FTG) elevations are shown on the drawings or are to be determined by the Contractor in the field in accordance with the guidelines set forth in the drawings.

3.4 Bottom of exterior footings, grade beams and walls shall bear at a minimum depth of 1'-6" below final grade for frost protection.

3.5 Testing and Inspection:
a. All areas to have slabs on grade shall be proof rolled in accordance with and under observation of the Geotechnical Engineer and approved prior to preparation for concrete placement.

b. All foundation bearing strata shall be inspected and approved by the Geotechnical Engineer prior to any concrete placement.

c. Geotechnical Engineer shall be the sole judge as to suitability of all foundation and/or slab bearing strata.

d. Footing bearing elevations shall be adjusted in the field as required to meet the design bearing pressures by additional excavation or compaction and/or backfilling or by other means acceptable to the Geotechnical Engineer.

3.6 Undercutting to remove existing fill beneath footings and slab shall be performed at the direction of the Geotechnical Engineer.

3.7 Engineered Fill: All fill material shall be selected in accordance with the Geotechnical Report Material shall be a clean, low plastic soil with a plasticity index less than 30 (less than 15 is preferred), liquid limit less than 50, and unit weight of 120 pcf (+ 5 pcf)

3.8 Compaction: All fill shall be placed in loose lifts not exceeding 8 inches in thickness and compacted to a minimum of 96 percent Standard Proctor (ASTM D-698) except that the top 12 inches shall be compacted to a minimum of 98 percent Standard Proctor. Moisture shall be controlled to within 3 percent above or below optimum content.

3.9 Remove all topsoil and organic materials. The stripping should extend at least 10' beyond the proposed construction limits.

3.10 Contractor shall review all construction considerations as outlined in the Geotechnical report and bid accordingly.

4.0 CONCRETE:

4.1 Concrete Strength:
All concrete shall be in accordance with the American Concrete Institute (ACI) 301 and 318.

4.2 Concrete shall have a 28 day compressive strength and density as follows:
a. Footings, and Interior Slab-on-grade.....3,000psi, Density = ±145pcf
b. Exterior Slab on Grade.....4,000psi, Density = ±145pcf

4.3 Concrete Mix Designs:
a. Submittals: Submit written reports of each proposed concrete mix not less than 15 days prior to the start of work.
b. Mix designs, including water, cement ratios and slumps, shall be prepared in accordance with ACI 301-05, Section 4, Cement shall conform to ASTM C 150 Type 1 or at contractor's option, ASTM C 595 Type IP where fly ash is permitted. Normal weight aggregate shall conform to ASTM C 33 and light weight aggregate shall conform to ASTM C 330. No admixtures containing calcium chloride shall be permitted in any concrete.
c. Aggregate size shall be #67 stone for supported slabs or other formed concrete elements; #57 stone for slabs on grade and footings or other concrete elements formed from and poured against earth; #89 stone for masonry grout.
d. Water reducing admixture shall be used in all concrete.
e. Air entraining admixture in accordance with ACI 301 shall be used in all concrete exposed freezing and thawing during construction or service conditions.
f. Concrete subjected to freezing/thawing shall have a maximum water/cement ratio of 0.45 and shall contain the amount of air entraining agent specified in ACI 301-05 Section 4.

4.4 Curing:
See specifications for curing method options and apply within two (2) hours after completion of finishing to all concrete flatwork and walls, U.N.O., other than footings and grade beams.

4.5 Use a non-corrosive, non-chloride accelerating admixture in concrete exposed to temperatures below 40 degrees. Uniformly heat the water and aggregates to a temperature of not less than 50 degrees. Place and cure concrete in accordance with ACI 306.

4.6 When hot weather conditions exist, place and cure concrete in accordance with ACI 301. Cool ingredients before mixing to maintain concrete temp. at time of placement below 90 degrees.

4.7 Reinforcing in all abutting concrete, including footings shall be continuous through or around all corners or intersections. Dowels or splices shall be equal in size and spacing to the reinforcing in the abutting members.

4.8 Refer to architectural drawings for door and window openings, drips, reglets, washes, masonry anchors, brick ledge elevations, slab depressions and miscellaneous embedded plates, bolts, anchors, angles, etc.

4.9 Refer to plumbing, mechanical and electrical drawings for underfloor, perimeter and other drains and for sleeves, outlet boxes, conduit, anchors, etc. The various trades are responsible for their items.

4.10 Base plates, anchor rods, support angles and other steel exposed to earth or granular fill shall be covered with a minimum of 3" of concrete.

4.11 Fill slabs, not shown on the structural drawings, shall be reinforced with a minimum of 3.0 lbs/yd³ of synthetic macro-fibers – see plan notes, unless noted otherwise on other drawings.

alt 4.11 Fill slabs, not shown on the structural drawings and all exterior slabs to be broom finished, shall be reinforced with a minimum of 6 x 6 x W2.0 x W2.0 WWM unless noted otherwise on other drawings.

4.12 Finish surfaces to the following tolerances, according to ASTM E 1155, for a randomly trafficked floor surface:
a. Specified overall values of flatness, F(F) 25; and of levelness, F(L) 20; with minimum local values equal to ⅔ of the overall flatness and levelness values.
b. The composite F(F) and F(L) numbers shall be measured and reported within 72 hours after completion of slab concrete finishing operations and before removal of any supporting shores.

4.13 Non-shrink grout shall be pre-mixed, non-corrosive, non-metallic, non-staining containing silica sands, Portland cement, shrinkage compensating and water reducing agents. Product shall only require the addition of water. Minimum compressive strength shall be 2500 psi after one day and 7000 psi after 28 days. Grout shall be free of gas producing or air releasing and oxidizing agents and contain no corrosive iron, aluminum or gypsum.

4.14 Provide concrete grout – not mortar – for reinforced masonry lintel and bond beams where indicated on drawing or as scheduled.

4.15 Tolerance for anchor rods and other embedded items shall be per the AISC Code of Standard Practice Section 7.5.

4.16 Unless otherwise shown in the architectural drawings, provide 3/4-inch chamfers at all column, wall, slab or beam edges that are exposed to view in the finished structure.

4.17 Concrete cover for cast-in-place concrete reinforcement:
Concrete cast against & permanently exposed to earth:.....3 Inches
Concrete exposed to earth or weather:
No. 6 through No. 18 Bars:.....2 Inches
No. 5 Bar and smaller:.....1½" Inches
Concrete not exposed to weather or in contact with ground:
Slabs, Walls, Joists:
No. 11 Bar and smaller:.....¾" Inches
Beams, Columns:
Primary Reinforcement, Ties, Stirrups:.....1½" Inches

5.0 REINFORCING STEEL:

5.1 Reinforcing shall be domestic new billet steel conforming to ASTM A615, Grade 60 or 60S including stirrups and ties, except that reinforcing which is required to be welded shall conform to ASTM A706.

5.2 Field bending of concrete reinforcing steel is not permitted.

5.3 Welded wire mat and fabric shall conform to ASTM A184 and A185 respectively and shall be provided in flat sheets. Welded wire mat/fabric shall be lapped 0'-6" at all splices.

5.4 Bar Splices:

	f'c = 3,000psi		f'c = 4,000psi		f'c = 5,000psi	
Bar Size	**Ld (in)**	**Class "B" Lap Splice (in)**	**Ld (in)**	**Class "B" Lap Splice (in)**	**Ld (in)**	**Class "B" Lap Splice (in)**
#3	17	22	15	19	13	17
#4	22	29	19	25	17	23
#5	28	36	24	31	22	28
#6	33	43	29	37	26	34
#7	48	63	42	54	38	49
#8	55	72	48	62	43	56

1. Values are based on normal weight concrete.
2. Ld = minimum embed of rebar
3. Class "B" lap splice refers to minimum distance bars must be lapped for a full tension splice.

6.0 COLD-FORMED STEEL FRAMING:

6.1 All members shall be designed in accordance with the American Iron and Steel Institute (AISI) "Specifications for the Design of Cold-formed Steel Structural Members", Latest Edition.

6.2 All framing members shall be formed from corrosion-resistant steel corresponding to the requirements of ASTM A446, with a minimum yield strength of 33 ksi for joists and studs and 33 ksi for runners.

6.3 All members shown are standard designations of Steel Stud Manufacturers Association (SSMA)

6.4 Design of members indicated in structural drawings is based on minimum properties of products produced per SSMA standards of members specified. No substitution of materials is acceptable for use without prior approval of the structural engineer. Substitutions shall meet or exceed all properties produced per SSMA standards of members specified.

6.5 All shop drawing submittals shall show layout, spacing, sizes, thicknesses and types of cold-formed metal framing, fabrication, and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details and attachment to adjoining work.

6.5 All shop drawing submittals shall show layout, spacing, sizes, thicknesses and types of cold-formed metal framing, fabrication, and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details and attachment to adjoining work.

6.6 Shop drawings, design calculations and other structural data shall be prepared and sealed by a qualified engineer. The Structural Engineer shall be legally qualified to practice in the jurisdiction where the project is located and shall be experienced in providing engineering services of the kind indicated.

6.7 All framing components shall be cut squarely for attachment to perpendicular members or as required for an angular fit tight against abutting members. All load bearing stud/walls shall be factory assembled into panels with studs bearing squarely and fully in top and bottom tracks.

6.8 Fastening components shall be by self-drilling screws or by welding as defined below UNO on the drawings.

6.9 Screwed connections:
a. Screws shall be type S-12 or type S-4 for all framing members per manufacturer's recommendations.
b. A minimum of three (3) exposed threads shall penetrate through at joined materials.
c. Corrosion-resistant cadmium-plated screws shall be used for screws attaching metal lath, masonry ties, and other exterior materials.

6.10 Welded connections:
a. Gas metal arc welding (GMAW) shall be used for 20 ga. Or lighter members. AWSE-705-3, E-705-E, E-705-6 wire electrodes .030"-.035" diameter shall be used with carbon dioxide, argon-oxygen or argon-carbon dioxide shielding. Welding equipment 60-100 amperes at 25 volts using 220-volt 3-phase electric service.
b. Shielded metal arc welding (SMAW) shall be used for 18 ga" and heavier members. AWS E-6012, E-6013, or E-7014 electrodes of 3/32" or 1/8" diameter shall be used. Welding equipment heat setting shall be varied dependent on material thickness.
c. All welds shall be touched up with zinc rich paint, or paint similar to that used by the framing member manufacturer.

6.11 Alignment of studs (plumbness) and walls (straightness) shall be within 1/960 of their respective heights and lengths.

6.12 Studs shall be plumbed, aligned, and securely attached to top and bottom runners. Splices in studs are not permitted.

6.13 Where manufacturer's recommendations for erection, attachment, assembly, bracing, alignment, or other installation, or assembly requirements are more stringent than indicated in these drawings, the manufacturer's recommendations shall apply.

STEEL THICKNESS						
Gauge:	**Mils**	**Design Thickness**		**Minimum Thickness**		**Yield Strength**
		Inches	**mm**	**Inches**	**mm**	**ksi**
20	33	0.0346	0.879	0.0329	0.836	33
18	43	0.0451	1.146	0.0428	1.087	33
16	54	0.0566	1.438	0.0538	1.367	50
14	68	0.0713	1.811	0.0677	1.720	50
12	97	0.1017	2.583	0.0966	2.454	50

7.0 STEEL JOISTS:

7.1 All steel joists shall be designed, fabricated, and erected in accordance with the SJI Specifications.

7.2 Joist ends shall be fixed and bridging shall be placed prior to application of any loads.

7.3 End Support:
a. Minimum bearing requirements shall be in accordance with the SJI Specification. Extended joist ends for bearing on masonry shall be provided by the joist manufacturer where required to accommodate bearing conditions shown on the drawings.
b. K Series joists shall be welded to supports with 1/8" fillet welds, one each side, 2" long.
c. Bolt joists as indicated below to structural steel supports at column centerlines or where joists do not space on centerlines, bolt connections for each joist adjacent to centerline. K Series: 2 @ 1/2-inch diameter bolts (minimum)

7.4 Joist bridging:
a. Shall be placed in accordance with the SJI Specification U.N.O. and shall be horizontal rods or angles at top & bottom chords for all K Series joists.
b. Bridging that terminates at or is interrupted by structural steel members, shall be welded or bolted thereto. Provide diagonal ("X") bridging for ends of bridging lines terminating at walls/beams.

7.5 Holes in joist chords are not permitted, except at bearing and bolted connections.

7.6 All joists (40) forty feet and longer shall require a row of bolted bridging to be in place before slackening of hoisting lines.

8.0 STRUCTURAL STEEL:

8.1 All structural steel shall be of the grades indicated below, unless noted otherwise on plans or details.
Rolled shapes ASTM A992 Gr. 50
Steel pipe ASTM A53, Type E or S, Grade B, Fy-35ksi
Structural tubing ASTM A500, Grade B, Fy-46ksi
Plates and bars ASTM A36 U.N.O.
Anchor rods ASTM F1554, Grade 36 U.N.O.
Miscellaneous ASTM A36 U.N.O.

8.2 All structural steel shall be detailed, fabricated and erected in accordance with the AISC Code of Standard Practice. The fabricator is responsible for the design of connections not shown on the structural drawings. For the purpose of the connection design, the fabricator shall retain a professional engineer registered in the state where the project is located. The engineer shall seal and sign each shop drawing containing connection design. A note shall accompany the drawings stating that the seal is for "Connection Design Only".

8.3 Connection Design:
a. Generally, connections shown on the drawings are schematic and are intended to show the relationship of the members.
b. Connections shall be designed for one-half (1/2) the allowable uniform load on the member, as defined in Part 3, "Allowable Loads on Beams" tables in the AISC "Manual of Steel Construction", 14th Edition, See plan notes for design methodology and minimum reactions.

8.4 Bolted connections:
a. Bearing type connections shall be snug tight with A325N or A490N bolts, U.N.O. Oversized and long-slotted holes are NOT permitted U.N.O. At single shear plate connections, provide bearing type fasteners with horizontal short slotted holes. All bolts shall be snug tight. DO NOT over torque bolts.
b. Protruding bolt heads, shafts or nuts shall not extend nor prohibit the application of architectural finishes or placement of steel deck at its correct location and elevation.
c. Connection designer is responsible for verifying the axial capacity after a section is reduced for bolt holes. Member size may be increased or plates added to maintain required capacity.
d. Bolted connections shall be assembled and inspected in accordance with RCSC-2009 (Specification for Structural Joints Using High-Strength Bolts).

8.5 Welded connections:
a. All welding shall be in accordance with the "Structural Welding Code – Steel" (AWS D1.1) of the American Welding Society, Latest Edition.
b. Electrodes for welding shall comply with the requirements of Table 4.1.1 of the AWS code.
c. At Moment Connections and Braced Frames Provide filler Metal that has a minimum CVN Toughness of 20 ft-lbs at minus 20 degrees F, As determined by AWS classification or Manufacturer Certification.
d. Proof of welder certification shall be available at the job site during times of inspection.

8.6 Minimum plate thickness shall be 3/8" U.N.O.; minimum bolt diameter shall be 3/4-inch U.N.O.; minimum shop weld shall be 3/16" and minimum field weld shall be 1/4-inch U.N.O.

8.7 All re-entrant corners (such as copes and blocks) shall be cut and shaped notch free with a radius of at least 1/2-inch.

9.0 STEEL DECK:

9.1 Steel roof deck shall be galvanized, Type B, 1 1/2" deep, 20 gauge, U.N.O.

9.2 For steel roof deck spans, mechanically fasten side laps at mid-span using "Buildex", self-tapping TEKS No. 10 or larger machine screws or as noted on plan.
Provide additional sidelap fasteners where noted on plan.
Fasten roof deck to supporting members as noted on plan.

9.3 Do not hang pipes or ducts from steel roof deck. Fasten roof deck to supporting members as noted on plan.

10.0 CONSTRUCTION AND SAFETY:

10.1 Woods Engineering P.A.'s responsibility is limited to the details and information shown on these drawings. It is the responsibility of the Contractor to provide adequate safety measures required by local codes as well as OSHA Standards for the Construction Industry.
This should include, but not be limited to the following:
Shoring to protect new as well as existing structures.
Necessary Scaffolding.
Material Handling Equipment.
Trench Boxing.

11.0 MATERIAL INSPECTIONS:

11.1 Special Inspections are not required for this project; however, Material Inspection are required by Chapter 17, 2018 NCSBC, See S1.03 for material inspection schedules.

12.0 SHOP DRAWING SUBMITTAL:

12.1 See Project Manual

12.2 Contractor shall submit Electronic copies (PDF format) of each shop drawing for review. Shop drawings shall be reviewed by the Contractor prior to submission to the Engineer. The Contractor shall allow 10 working days for shop drawing approval.

13.0 SUPPLEMENTAL FRAMING:

13.1 Provide supplemental framing for the support of pipes, conduits, light fixtures, etc. Supplemental framing shall consist of slotted steel channels, steel angles, hanger rods, and appropriate hardware. Finish for framing and hardware shall be galvanized or rust-inhibiting acrylic enamel paint.

13.2 Slotted Steel Channels: For exterior use, hot-dipped galvanized finish. For interior use, manufacturer's standard finish.

13.3 Steel Angles: for exterior use, hot-dipped galvanized. For interior use, prime with rust-inhibitive primer and finish paint two coats of alkyd enamel.

13.4 Hanger Rods: Galvanized carbon steel threaded rods.

13.5 Fastening Hardware: Finish shall match connected parts.

ABBREVIATIONS

@	AT	HT	HIP TRUSS
&	AND	IFM	INSIDE FACE OF MASONRY
AB	ANCHOR BOLTS	INT	INTERIOR
ACI	AMERICAN CONCRETE INSTITUTE	JBE	JOIST BEARING ELEVATION
ADDL	ADDITIONAL	JT	JOINT
AFF	ABOVE FINISHED FLOOR	K	KIP-S
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	KB	KICKER BRACE
		KSI	KIPS PER SQUARE INCH
AISI	AMERICAN IRON AND STEEL INSTITUTE	(L)	LONG SIDE REINFORCEMENT
		LB	LONG BAR
ALT	ALTERNATE	LBS	POUNDS
ARCH	ARCHITECTS – ARCHITECTURAL	LLH	LONG LEG HORIZONTAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LLV	LONG LEG VERTICAL
		LO	LOW
AWS	AMERICAN WELDING SOCIETY	LOC	LOCATION
B, BOTT	BOTTOM	LWC	LIGHT WEIGHT CONCRETE
BCX	BOTTOM CHORD EXTENSION	MAX	MAXIMUM
BFF	BELOW FINISHED FLOOR	MC	MOMENT CONNECTION
BLDG	BUILDING	MECH	MECHANICAL
BM	BEAM	MFR	MANUFACTURER
BOS	BOTTOM OF STEEL	MID	MIDDLE
BRG	BEARING	MIN	MINIMUM
BTWN	BETWEEN	MISC	MISCELLANEOUS
CFS	COLD FORMED STEEL	MOW	MIDDLE OF WALL
CJ	CONTRACTION JOINT	MP	MASONRY PLASTER
CL	CENTERLINE	d	NAILS – PENNY
CLR	CLEAR	No	NUMBER
CMU	CONCRETE MASONRY UNITS	NS	NEAR SIDE
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	NWC	NORMAL WEIGHT CONCRETE
CONN	CONNECTION	OC	ON CENTER
CONST JT	CONSTRUCTION JOINT	OFB	OUTSIDE FACE OF BRICK
CONT	CONTINUOUS	OFM	OUTSIDE FACE OF MASONRY
CONTR	CONTRACTOR	OFS	OUTSIDE FACE OF STUD
CSJ	COMPOSITE STEEL JOIST	OPNG	OPENING
CTRD	CENTERED	OPP	OPPOSITE HAND
DBA	DEFORMED BAR ANCHOR	PEBS	PRE-ENGINEERED BUILDING SUPPLIER
DD	DELEGATED DESIGN		
DEFL	DEFLECTION	PED	PEDESTAL
DEPR	DEPRESSION – DEPRESSED	PL	PLATE
DET	DETAIL	PSF	POUNDS PER SQUARE FOOT
DIAG	DIAGONAL	PSI	POUNDS PER SQUARE INCH
ø	DIAMETER	PSL	PARALLEL STRAND LUMBER
DIM	DIMENSION	PLF	POUNDS PER LINEAR FOOT
DIST	DISTANCE	PT	PRESSURE TREATED
DWG(S)	DRAWING(S)	REF	REFERENCE
DWL(S)	DOWEL(S)	REINF	REINFORCING
EA	EACH	REQD	REQUIRED
ELEV	ELEVATION	(S)	SHORT SIDE REINFORCEMENT
EMBED	EMBEDDED – EMBEDMENT	SB	SHORT BAR
ENG	ENGINEER	SCHD	SCHEDULE
EOR	ENGINEER OF RECORD	SF	STEP FOOTING
EQ	EQUAL	SIM	SIMILAR
EQUIP	EQUIPMENT	SOG	SLAB ON GRADE
EF	EACH FACE	SPEC(S)	SPECIFICATION(S)
EJ	EXPANSION JOINT	SPF	SPRUCE PINE FUR
EOD	EDGE OF DECK	SQ	SQUARE
EOM	EDGE OF MASONRY	STD	STANDARD
EOS	EDGE OF SLAB	STIFF	STIFFENER
EOW	EDGE OF WALL	STIRR	STIRRUP
EW	EACH WAY	STL	STEEL
EXIST	EXISTING	STR	STRUCTURAL
EXP	EXPANSION	SW	SHEAR WALL
EXT	EXTERIOR	SYP	SOUTHERN YELLOW PINE
FDN	FOUNDATION	T	TOP
FFE	FINISHED FLOOR ELEVATION	TCX	TOP CHORD EXTENSION
FS	FAR SIDE	TOC	TOP OF CONCRETE
FTG	FOOTING	TOS	TOP OF STEEL
GA	GAUGE	TOW	TOP OF WALL
GALV	GALVANIZED	TYP	TYPICAL
GT	GIRDER TRUSS	UNO	UNLESS NOTED OTHERWISE
HD	HEADED	VB	VEHICLE BARRIER
HI	HIGH	VERT	VERTICAL
HORIZ	HORIZONTAL	VIF	VERIFY IN FIELD
HSS	HOLLOW STRUCTURAL SECTION	W	WITH
		WWF	WELDED WIRE FABRIC

DO NOT SCALE DIGITAL OR HARD COPIES OF THESE DRAWINGS:

Unless Specifically Noted – Drawings, Plans, Sections, Details, Etc. are a graphic representation of the framing conditions and/or requirements.
Rebar lengths, bends & etc. SHALL NOT be determined by scaling any drawings included in this set of documents. Lengths & sizes shall be determined by the schedules only, or specifically requested if not numerically shown. Submit a written request to Woods Engineering, PA if further clarification is needed.

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CORPORATE SEAL No. C-1606 NORTH CAROLINA WOODS ENGINEERING, P.A.

Digitally signed by Don R. Woods, PE
DN: cn=dwoods@woodseng.com, CN=Don R. Woods, PE, O="WOODS ENGINEERING, P.A.", L=Wilmington, S=North Carolina, C=US
Date: 2022.08.31 14:19:52-04'00'

Michael Jordan Family Medical Clinic - Wilmington

No.	Description	Date

CONSTRUCTION DOCUMENTS

GENERAL NOTES

ISSUE DATE 08/10/2022
CHECKED DRW
SHEET BY MBK
PROJECT NUMBER 21-3353

S1.01

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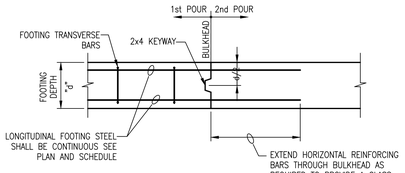

TYPICAL FOOTING CONSTRUCTION JOINT SECTION
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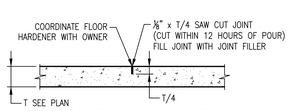

CONTRACTION JOINT
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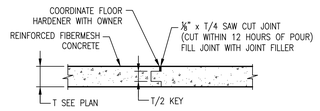
WITHOUT WIRE MESH



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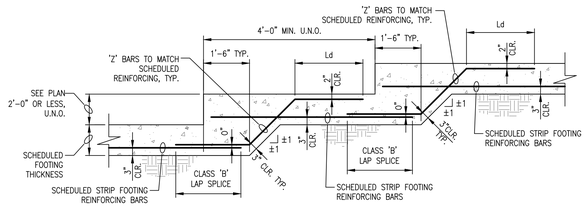

STEP FOOTING DETAIL
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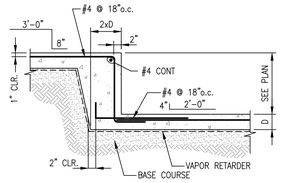

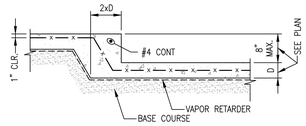

TYPICAL SLAB STEP
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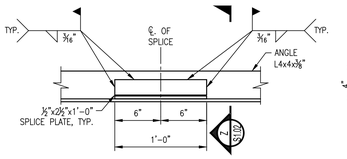

TYPICAL ANGLE SPLICE DETAIL
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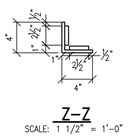

Z-Z
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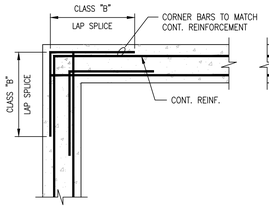
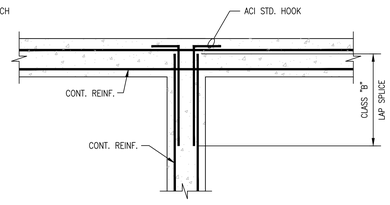


❶ FOOTING CORNERS



❷ FOOTING INTERSECTION

TYPICAL CORNER REINFORCING FOR CONCRETE FOOTINGS
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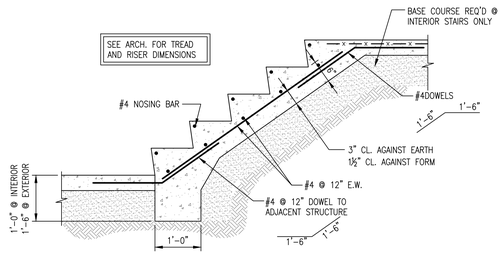

TYPICAL STAIR ON GRADE
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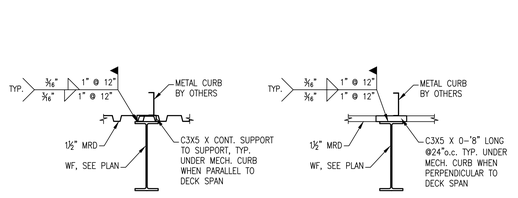

HVAC CURB DETAILS
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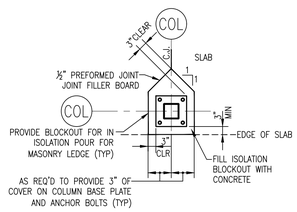

TYPICAL ISOLATION JOINT AT SLAB EDGE
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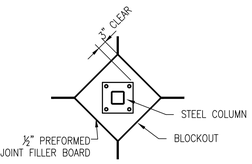

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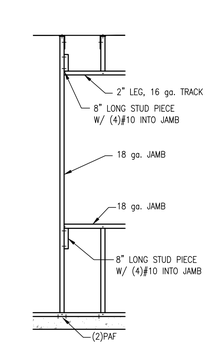
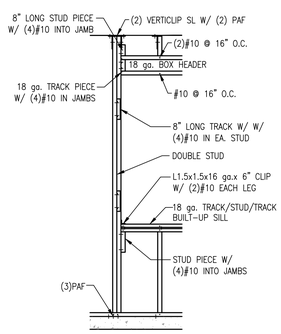


TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 3'-4"
SCALE: 1/2" = 1'-0"



TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 6'-4"
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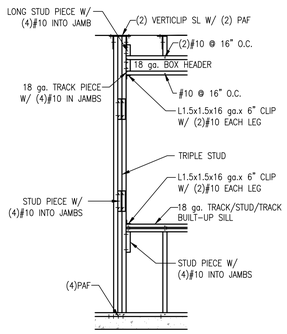
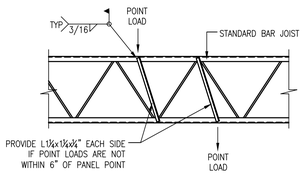


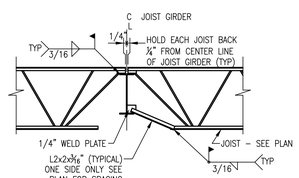
TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 8'-8"
SCALE: 1/2" = 1'-0"

TYPICAL LIGHT GAUGE CONSTRUCTION DETAILS FOR NON-LOAD BEARING EXTERIOR WALLS

NOTE: THESE DETAILS ARE GENERIC AND ARE FOR GENERAL INFORMATION AND BUDGET PRICING. ACTUAL DESIGN BY LIGHT GAUGE SUPPLIER AND ENGINEER.



DETAIL OF TYPICAL JOIST REINFORCEMENT
NOT TO SCALE



SECTION "A"
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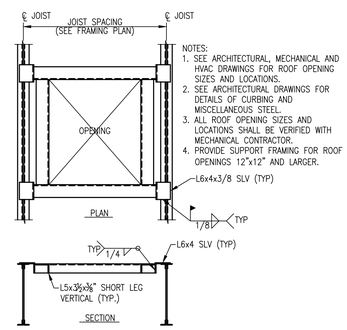
GIRDER BOTTOM FLANGE (BRACE TYP.)



DETAIL OF TYPICAL ROOF OPENING
NOT TO SCALE

AT CONTRACTOR'S OPTION:
USE QUICKFRAMES
WWW.QUICKFRAMES.US

GENERAL NOTE:
DETAILS SHOWN ON THIS SHEET ARE GENERIC IN NATURE AND MAY NOT PORTRAY EXACT CONDITIONS. THESE DETAILS ARE INTENDED TO PROVIDE GENERAL GUIDELINES FOR TYPICAL CONSTRUCTION CONDITIONS.

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NORTH CAROLINA PROFESSIONAL SEAL 19475 ENGINEER DON R. WOODS

Digitally signed by Don R. Woods, PE
DN: E=donrwoods@woodseng.com, CN=Don R. Woods, PE, O="WOODS ENGINEERING, P.A.", L=Wilmington, S=North Carolina, C=US
Date: 2022.08.10 14:20:01-04'00'

Michael Jordan Family Medical Clinic - Wilmington

No.	Description	Date

CONSTRUCTION DOCUMENTS

GENERAL NOTES

ISSUE DATE 08/10/2022
CHECKED DRW
SHEET BY MBK
PROJECT NUMBER 21-3353

S1.02

5/6/2022 8:09:29 AM BIM 360://21-025 Novant MJ Clinic Wilmington/ST_MJ CLINIC_v21.rvt

SCHEDULE FOR SPECIAL INSPECTIONS

BUILDING COMPONENTS OR MATERIAL	MATERIAL SUBMITTAL	INSPECTION / MONITORING	INSPECTION FREQUENCY	INSPECTOR QUALIFICATIONS	TEST REQUIREMENTS	TEST FREQUENCY	INSPECTION AGENCY
SOILS	1. REVIEW NOVA, GEOTECHNICAL REPORT #10705-2021050 – ALLOWABLE SOIL BEARING = 3000psf 2. FILL MATERIAL SPECIFICATIONS. 3. VAPOR BARRIER	1.–2. INSPECT SOILS PER ATTACHED 2015 IBC, TABLE 1705.6 FOR REQUIRED VERIFICATION AND INSPECTION. 3. INSPECT VAPOR BARRIER INSTALLATION. SEE PROJECT & MANUFACTURER SPECS.	ALL INSPECTIONS ARE PERIODIC EXCEPT FILL PLACEMENT AND COMPACTION WHICH IS CONTINUOUS.	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. PROVIDE VISUAL AND DCP TESTS PER ASTM STP–399 2. SUBGRADE DENSITY VERIFICATION	1. EACH ISOLATED FOOTING AND AT 20' INTERVALS FOR CONTINUOUS FOOTINGS. 2. AS REQUIRED TO VERIFY ENTIRE BUILDING PAD.	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.
CONCRETE	1. SUBMIT CONCRETE MIX DESIGN. 2. SUBMIT MATERIAL CERTIFICATION 3. SUBMIT REBAR SHOP DRAWINGS.	INSPECT CONCRETE CONSTRUCTION PER ATTACHED 2015 IBC, TABLE 1705.3	AS OUTLINED PER TASK IN TABLE 1705.3	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. TEST CONCRETE FOR COMPRESSIVE STRENGTH, SLUMP, AIR CONTENT, TEMPERATURE AND BATCH TO PLACEMENT TIME.	1. SAMPLES FOR STRENGTH TESTS FOR EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 YD³ OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000FT² OF SURFACE AREA FOR SLABS OR WALLS.	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.
STEEL	1. SUBMIT ANCHOR BOLT SETTING PLAN. 2. SUBMIT STEEL SHOP DRAWINGS. 3. SUBMIT MATERIAL CERTIFICATES. 4. FABRICATOR CERTIFICATE OF COMPLIANCE WITH 2015 IBC, 1705.2.	INSPECT STEEL PER ATTACHED TABLE BELOW	AS OUTLINED PER TASK IN TABLE BELOW	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. VISUAL INSPECTION BY A QUALIFIED STEEL INSPECTOR. 2. MOMENT CONNECTIONS FIELD WELDED. 3. ALL FIELD BOLTING SHALL BE SNUG TIGHT.	INSPECT ALL FIELD CONNECTIONS. CONTINUOUS INSPECTION OF ALL MOMENT CONNECTIONS REQUIRED.	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.
STEEL JOISTS	1. SUBMIT STEEL SHOP DRAWINGS. 2. SUBMIT MATERIAL CERTIFICATES. 3. FABRICATOR CERTIFICATE OF COMPLIANCE WITH 2015 IBC, 1705.2.	INSPECT STEEL JOIST PER ATTACHED TABLE 1705.2.3	AS OUTLINED PER TASK IN TABLE 1705.2.3	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. VISUAL INSPECTION BY A QUALIFIED STEEL INSPECTOR. 2. MOMENT CONNECTIONS FIELD WELDED. 3. ALL FIELD BOLTING SHALL BE SNUG TIGHT.	1. PERIODIC	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.
COLD FORMED STEEL	1. SUBMIT SEALED ROOF TRUSS AND WALL FRAMING SHOP DRAWINGS. 2. SUBMIT PRODUCT DATA SHEETS. 3. SUBMIT P.E. SEALED CALCULATIONS.	1. FABRICATOR SHALL BE SUBMIT SHOP CERTIFICATION IF ROOF TRUSSES ARE SHOP FABRICATED. 2. INSPECT ALL FIELD FABRICATED TRUSSES VS. APPROVED SHOP DRAWINGS. 3. INSPECT WALL FRAMING. 4. INSPECT MECHANICAL CONNECTIONS FROM TRUSS TO STEEL TUBE, STEEL TUBE TO WALL FRAMING AND ANCHORAGE OF WALL FRAMING TO CONCRETE.	1 & 2 CONTINUOUS 3. PERIODIC 4. PERIODIC	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY BUILDING OFFICIAL.	1. VISUAL INSPECTION BY A QUALIFIED INSPECTOR.	1. PERIODIC	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY BUILDING OFFICIAL.

REQUIRED VERIFICATION & INSPECTION OF STEEL CONSTRUCTION

VERIFICATION & INSPECTION TASK	CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF HIGH–STRENGTH BOLTS, NUTS AND WASHERS:		
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	–	X
2. INSPECTION OF HIGH–STRENGTH BOLTING:		
a. SNUG–TIGHT JOINTS.	–	X
b. PRETENSIONED AND SLIP–CRITICAL JOINTS USING TURN–OF–NUT WITH MATCHMARKING, TWIST–OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	–	X
c. PRETENSIONED AND SLIP–CRITICAL JOINTS USING TURN–OF–NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	–
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD–FORMED STEEL DECK:		
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	–	X
b. FOR OTHER STEEL, INDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
c. MANUFACTURER'S CERTIFIED TEST REPORTS.	–	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	–	X
5. INSPECTION OF WELDING:		
a. STRUCTURAL STEEL AND COLD–FORMED STEEL DECK:		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	–
2) MULTIPASS FILLET WELDS.	X	–
3) SINGLE–PASS FILLET WELDS > 5/16"	X	–
4) PLUG AND SLOT WELDS.	X	–
5) SINGLE–PASS FILLET WELDS ≤ 5/16"	–	X
6) FLOOR AND ROOF DECK WELDS.	–	X
b. REINFORCING STEEL:		
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	–	X
2) REINFORCING STEEL–RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	–
3) SHEAR REINFORCEMENT.	X	–
4) OTHER REINFORCING STEEL	–	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:		
a. DETAILS SUCH AS BRACING AND STIFFENING.	–	X
b. MEMBER LOCATIONS.	–	X
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	–	X

(a) OBSERVE ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM THESE TASKS FOR EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT

(b) SEE AISC 360 QUALITY ASSURANCE INSPECTION REQUIREMENTS

REQUIRED VERIFICATION & INSPECTION OF CONCRETE CONSTRUCTION FREQUENCY CHART

VERIFICATION & INSPECTION TASK	CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	–	X
2. REINFORCING BAR WELDING: a. VERIFY WEDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706 b. INSPECT SINGLE–PASS FILLET WELDS, MAXIMUM 5/16"; and c. INSPECT ALL OTHER WELDS.	– X	X X
3. INSPECTION OF ANCHORS CAST IN CONCRETE	–	X
4. INSPECT ANCHORS POST–INSTALLED IN HARDENED CONCRETE MEMBERS a. ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLUDED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X	X
5. VERIFY USE OF REQUIRED DESIGN MIX.	–	X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	–
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	–
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS	X X	– –
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	–	X
11. VERIFY IN–SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST–TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	–	X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	–	X

NOTE: SEE 2012 NCSBC, SECTION 1704.4 FOR REFERENCE STANDARDS.

REQUIRED VERIFICATION & INSPECTION OF SOILS

VERIFICATION & INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	–	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	–	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	–
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY,	–	X

NOTE: SEE IBC–2015, TABLE 1705.6, CHAPTER 17

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Michael Jordan Family Medical Clinic - Wilmington

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CONSTRUCTION DOCUMENTS

GENERAL NOTES

ISSUE DATE: 08/10/2022
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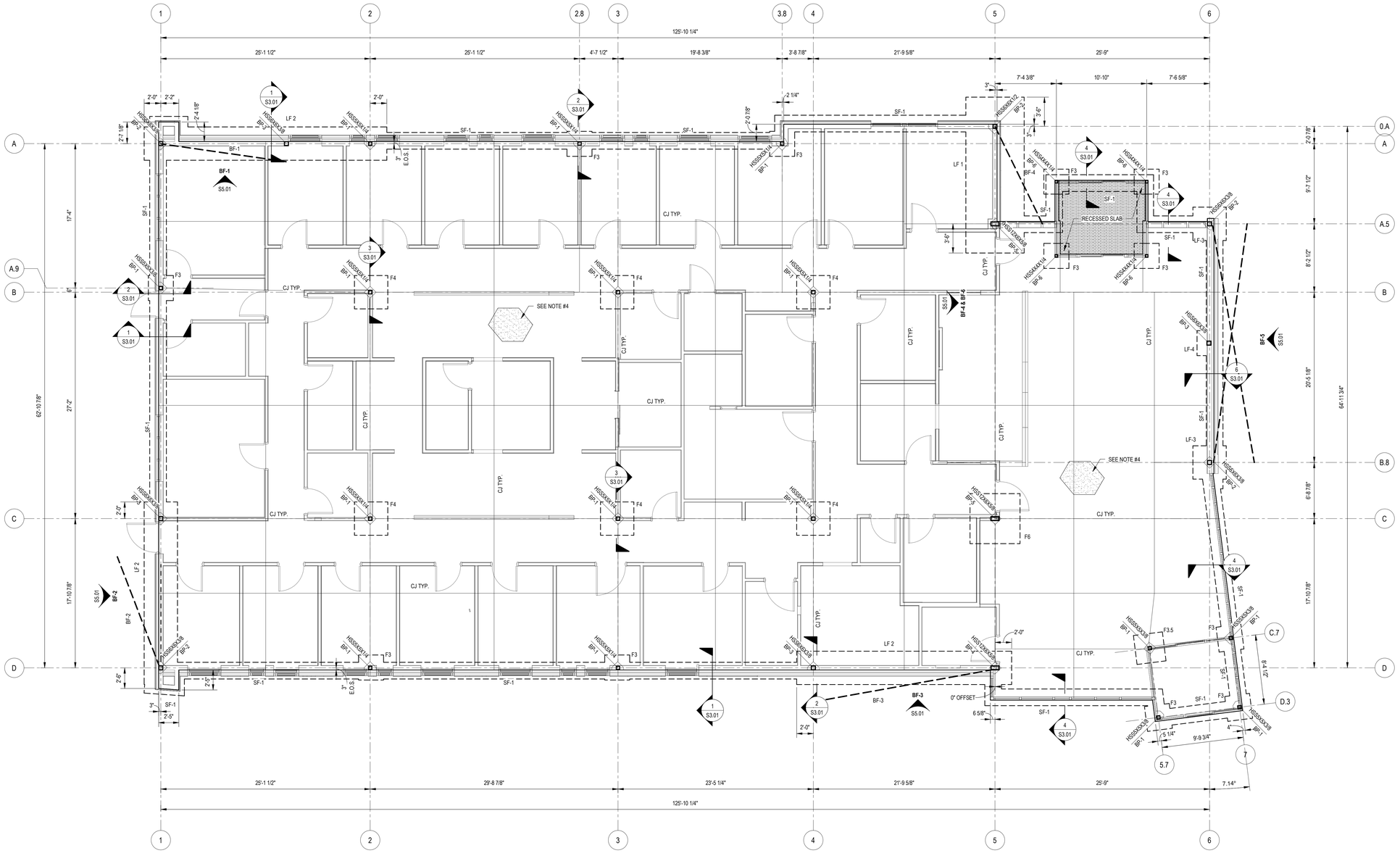

FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

SPREAD FOOTING (Fx) SCHEDULE

MARK	WIDTH x LENGTH x THICKNESS	REINFORCEMENT		COMMENTS
		TOP BARS EACH WAY (U.N.O.)	BOTTOM BARS EACH WAY (U.N.O.)	
F3	3'-0" x 3'-0" x 1'-0"	-	(4) #5	
F3.5	3'-6" x 3'-6" x 1'-0"	-	(4) #5	
F4	4'-0" x 4'-0" x 1'-0"	-	(5) #5	
F6	6'-0" x 6'-0" x 1'-2"	(7) #4	(7) #5	

STRIP FOOTING (SF-x) SCHEDULE

MARK	WIDTH x THICKNESS x LENGTH	REINFORCEMENT		COMMENTS
		TOP BARS	BOTTOM BARS	
SF-1	2'-0" x 1'-0" x CONT.		(3) #4 CONT.	

LATERAL FOOTING (LF-x) SCHEDULE

MARK	WIDTH x THICKNESS x LENGTH	REINFORCEMENT		COMMENTS
		TOP BARS	BOTTOM BARS	
LF 1	7'-0" x 2'-0" x SEE PLAN	(9) #5 LONG & #4 @12"o.c. SHORT	(9) #6 LONG & #6 @10"o.c. SHORT	
LF 2	4'-0" x 2'-0" x SEE PLAN	(6) #5 LONG & #4 @12"o.c. SHORT	(6) #6 LONG & #5 @12"o.c. SHORT	
LF-3	4'-0" x 2'-0" x 4'-0"	(5) #5 E.W.	(5) #6 E.W.	
LF-4	3'-0" x 2'-0" x 3'-0"	(4) #5 E.W.	(4) #6 E.W.	

FOUNDATION PLAN NOTES

1. SEE S1.0 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S1.0 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
2. DATUM ELEVATION = TOP OF SLAB ELEVATION = ASSUMED 0'-0" = 7'-7" M.S.L. OTHER ELEVATIONS ARE NOTED AS (+ OR -) FROM DATUM ELEVATION.
3. TOP OF FOOTINGS SHALL BE (-1'-4") FROM DATUM ELEVATION, U.N.O.
4. INTERIOR TROWEL FINISHED SLAB-ON-GRADE (THICKNESS SPECIFIED ON PLAN) 3000 psi CONCRETE REINFORCED WITH WWM6x6xW2.0xW2.0 or 3.0lbs/yd.³ OF SYNTHETIC MACRO-FIBERS (TUF-STRAND SF BY EUCLID, FIBER MAC SERIES BY BASF, OR FORTA-FERRO BY FORTA CORP. OR APPROVED EQUAL) ON 15 mil VAPOR RETARDER, ON 6" CLEAN SANDS WITH LESS THAN 20% FINES PASSING #100 SIEVE (SP,SW,SP-SM) OR APPROVED EQUAL ON WELL COMPACTED SUB GRADE. EXTERIOR AND BROOM FINISHED SLABS ON GRADE (THICKNESS SPECIFIED ON PLAN) 4,000 psi CONCRETE REINFORCED WITH WWF6X6XW2.9XW2.9 FLAT SHEETS ON 10 MIL VAPOR BARRIER ON 6" CLEAN SANDS ON COMPACTED SUB-GRADE.
5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE DRAWINGS FOR OPENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS.
6. RELOCATE ANY UTILITY LINES THAT CONFLICT WITH THE FOUNDATIONS OR DROP THE FOUNDATIONS TO AN ELEVATION BELOW THE PROPOSED UTILITIES. RELOCATE ANY GRAVITY FLOW LINES THAT CONFLICT WITH SPREAD FOOTINGS AS SHOWN ON STRUCTURAL FOUNDATION PLANS. IF A GRAVITY FLOW LINE TRAVELS UNDER A CONTINUOUS STRIP FOOTING EITHER:
   a. DROP THE FOOTING ELEVATION BELOW THE PROPOSED LINE.
   b. IF THE UTILITY LINE IS < 2'-0" BELOW THE STRIP FOOTING, THEN ENCASE THE LINE IN A STEEL PIPE 2" LARGER IN DIAMETER THAN THE LINE AND EXTEND THE PIPE 1'-0" PAST EACH SIDE OF THE CONCRETE FOOTING. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
   c. IF THE UTILITY LINE IS ≥ 2'-0" BELOW BOTTOM OF FOOTING, THEN STEEL PIPE IS NOT REQUIRED. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
7. DIMENSIONS ARE FROM EDGE OF SLAB (E.O.S.) AND OUTSIDE FACE OF STUD (O.F.S.) / CURTAINWALL (O.F.CW.) TO COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
8. SEE S5.0 SHEETS FOR STEEL BRACED FRAME INFORMATION AND REQUIREMENTS.
9. WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.

FOUNDATION LEGEND

- FX — SPREAD FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
- LF-X — LATERAL FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
- SF-X — STRIP FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
- CJ — INDICATES CONCRETE SLAB CONTRACTION JOINTS, SEE S1.0 SHEETS FOR TYPICAL DETAILS. SEE PLAN FOR LOCATIONS. MAXIMUM SPACING = 12' IN EACH DIRECTION
- SW — SHEAR WALL DESIGNATION - SEE S5.0 SHEET FOR SCHEDULE, DETAILS & REQUIREMENTS
- INDICATES APPROXIMATE LOCATION OF SHEAR WALL HOLDOWN - SEE SCHEDULE ON S5.0 SHEETS
- HSS(X)X(X) BP-X — STEEL COLUMN - SEE PLAN FOR SIZE AND LOCATION SEE S3.0 SHEETS FOR BASE PLATE DETAILS (BP-x)
- 0 — GRID DESIGNATION FOR CENTERLINE OF COLUMN U.N.O.
- INDICATES 7" SLAB DEPRESSION COORDINATE EXACT LIMITS W/ ARCH. & PLUMBING DWGs & SEE S1.0 SHEETS FOR TYPICAL SLAB DEPRESSION DETAILS
- BRACE #X — INDICATES STEEL BRACE LOCATIONS SEE PLAN & SHEET S5.0 SHEETS

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CONSTRUCTION DOCUMENTS

FOUNDATION PLAN

ISSUE DATE 08/10/2022
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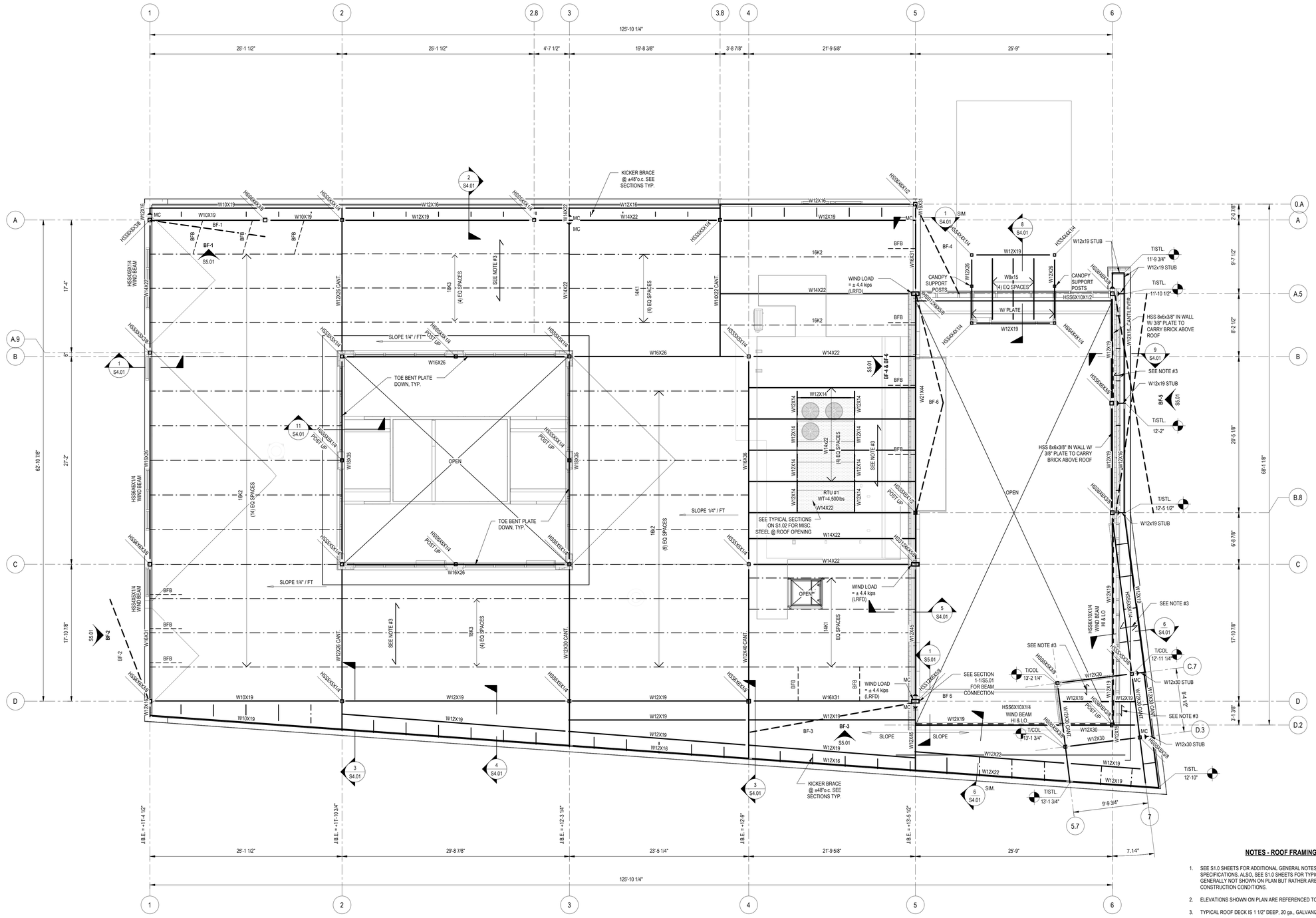


LOW ROOF FRAMING PLAN

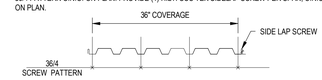
SCALE: 3/16" = 1'-0"

ROOF FRAMING LEGEND

- STEEL COLUMN - SEE PLAN FOR SIZE AND LOCATION
- STEEL BEAM - SEE PLAN FOR SIZE AND LOCATION
- STEEL BEAM MOMENT CONNECTION - SEE PLAN
- INDICATES STEEL ROOF JOISTS SEE PLAN FOR SIZE AND SPACING
- GIRDER BOTTOM FLANGE BRACING SEE SECTION ON S1.0 SHEETS
- GRID DESIGNATION FOR CENTERLINE OF COLUMN
- INDICATES STEEL BRACE LOCATIONS SEE PLAN & SHEET S5.0 SHEETS
- KICKER BRACE @ ±48°o.c. SEE SECTIONS TYP.

NOTES - ROOF FRAMING

1. SEE S1.0 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S1.0 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
2. ELEVATIONS SHOWN ON PLAN ARE REFERENCED TO DATUM ELEVATION (0'-0") - SEE S2.01.
3. TYPICAL ROOF DECK IS 1 1/2" DEEP, 20 ga., GALVANIZED, TYPE 'B' METAL ROOF DECK.
4. METAL ROOF DECK SHALL BE ATTACHED TO SUPPORTING MEMBERS WITH HILTI X-HSN 24 FOR STEEL THICKNESS EQUAL TO OR LESS THAN 3/8" AND HILTI X-ENP 19 OTHERWISE IN A 36/4 PATTERN U.N.O. ON PLAN. PROVIDE (1) HILTI SCC TEK SIDELAP SCREW PER SPAN, U.N.O. ON PLAN.



5. ALL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT PRESSURE OF 25 psf (ASD).
6. PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS.
7. SEE S5.0 SHEETS FOR BRACE FRAME INFORMATION.
8. WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.

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CONSTRUCTION DOCUMENTS

LOW ROOF FRAMING PLAN

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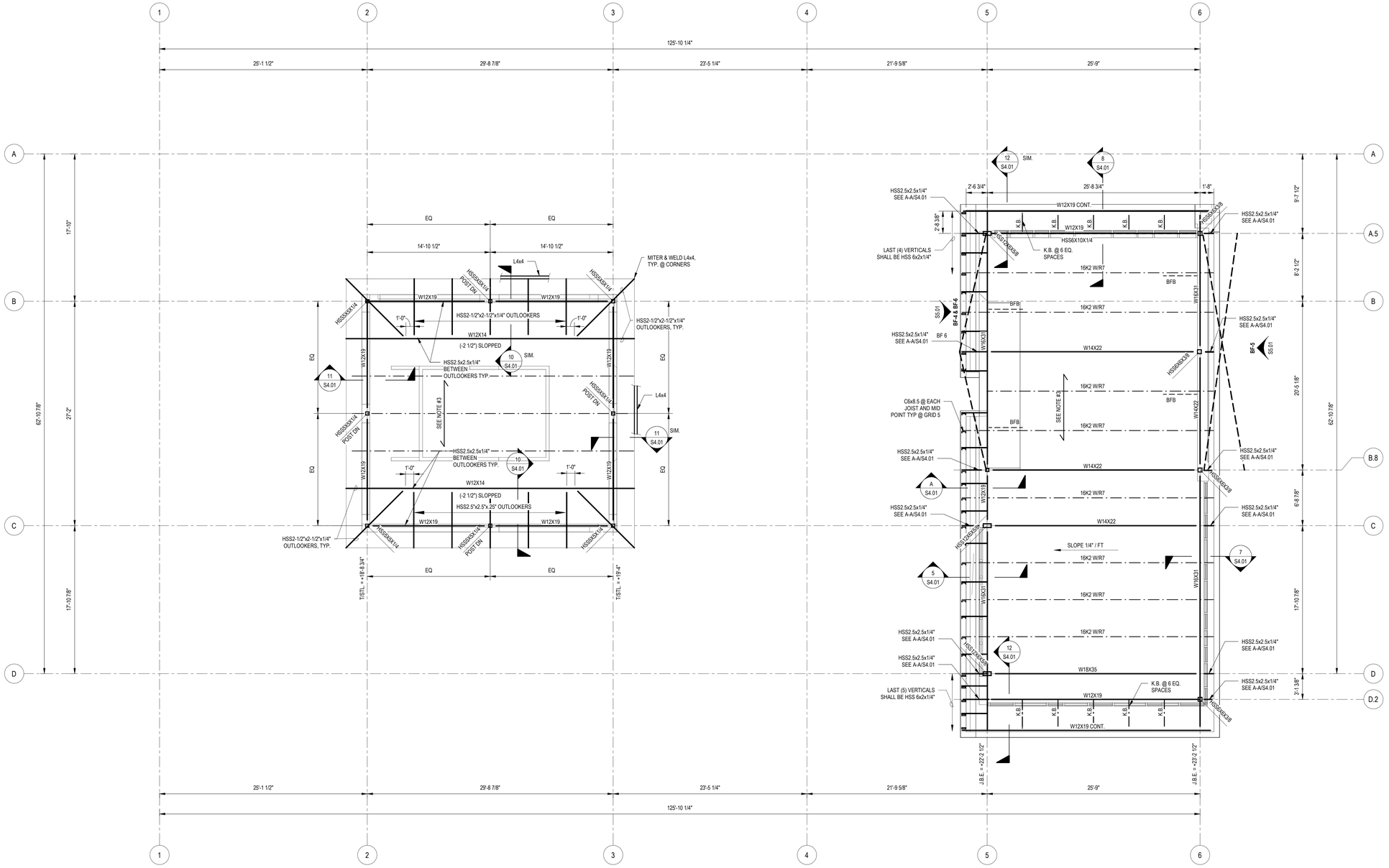

CLERESTORY & HIGH ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

ROOF FRAMING LEGEND

- W/xx / HSSxxx — STEEL COLUMN - SEE PLAN FOR SIZE AND LOCATION
- W_x_ — STEEL BEAM MOMENT CONNECTION - SEE PLAN
- MC — STEEL BEAM - SEE PLAN FOR SIZE AND LOCATION
- INDICATES STEEL ROOF JOISTS SEE PLAN FOR SIZE AND SPACING
- BFB — GIRDER BOTTOM FLANGE BRACING SEE SECTION ON S1.0 SHEETS
- 0 — GRID DESIGNATION FOR CENTERLINE OF COLUMN
- BRACE #X — INDICATES STEEL BRACE LOCATIONS SEE PLAN & SHEET S5.0 SHEETS

NOTES - ROOF FRAMING

1. SEE S1.0 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S1.0 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
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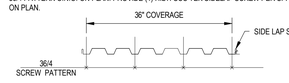
4. METAL ROOF DECK SHALL BE ATTACHED TO SUPPORTING MEMBERS WITH HILTI X-HSN 24 FOR STEEL THICKNESS EQUAL TO OR LESS THAN 3/8" AND HILTI X-ENP 19 OTHERWISE IN A 36/4 PATTERN U.N.O. ON PLAN. PROVIDE (1) HILTI SCC TEK SIDELAP SCREW PER SPAN, U.N.O. ON PLAN.



5. ALL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT PRESSURE OF 25 psf (ASD).
6. PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS.
7. SEE S5.0 SHEETS FOR BRACE FRAME INFORMATION.
8. WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.

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HIGH ROOF FRAMING PLAN

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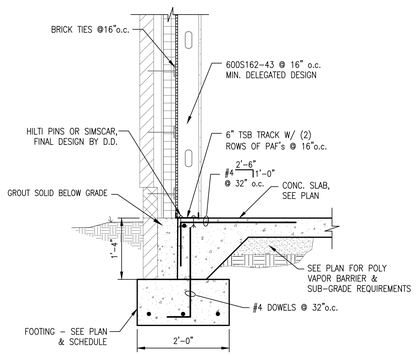
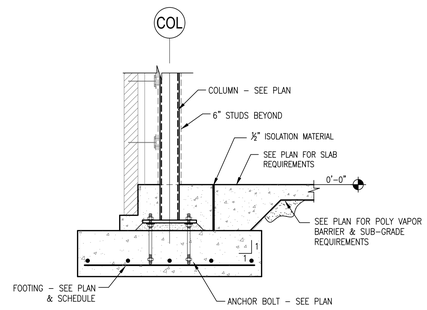
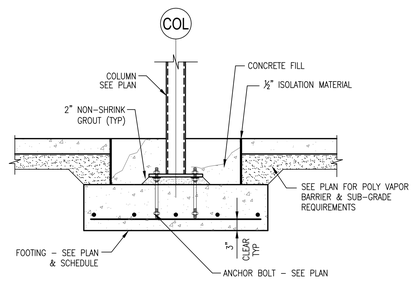


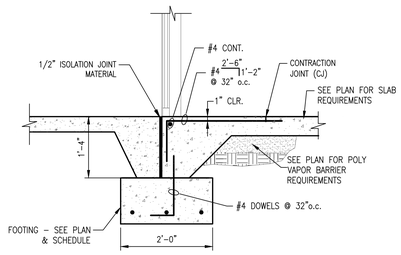
SECTION 1-1
SCALE: 3/4" = 1'-0"



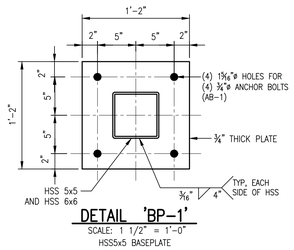
SECTION 2-2
SCALE: 3/4" = 1'-0"
TYP. EXTERIOR COLUMN WALL FOOTING



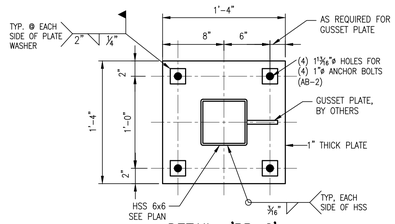
SECTION 3-3
SCALE: 3/4" = 1'-0"
TYP. INTERIOR COLUMN FOOTING



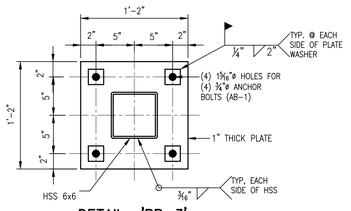
SECTION 4-4
SCALE: 3/4" = 1'-0"
CW AT RECESS SLAB & WALKWAY



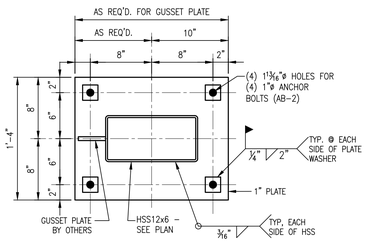
DETAIL 'BP-1'
SCALE: 1 1/2" = 1'-0"
HSS5x5 BASEPLATE
SEE PLAN



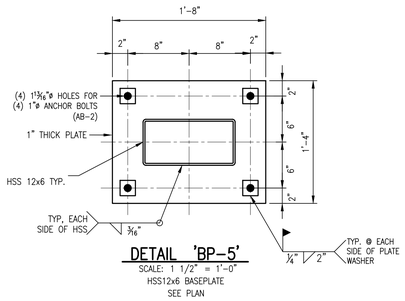
DETAIL 'BP-2'
SCALE: 1 1/2" = 1'-0"
HSS6x6 BASEPLATE
SEE PLAN



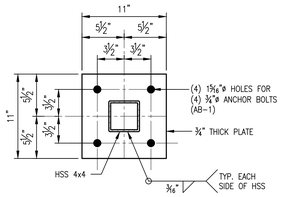
DETAIL 'BP-3'
SCALE: 1 1/2" = 1'-0"
HSS6x6 BASEPLATE
SEE PLAN



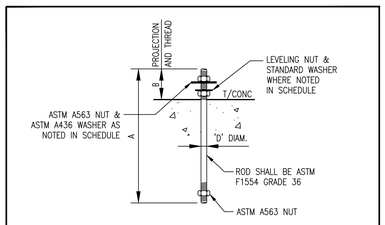
DETAIL 'BP-4'
SCALE: 1 1/2" = 1'-0"
HSS12x6 BASEPLATE



DETAIL 'BP-5'
SCALE: 1 1/2" = 1'-0"
HSS12x6 BASEPLATE
SEE PLAN



DETAIL 'BP-6'
SCALE: 1 1/2" = 1'-0"
HSS4x4 BASEPLATE
SEE PLAN



ANCHOR BOLT SCHEDULE							
MARK	BOLT DIAM. D	HOLE DIAMETER	A	B	WASHER O.D. x t	LEVELING NUT	REMARKS
AB-1	¾"	1⅜"	1'-2"	5"	2" x ¼"	YES	2" LEVELING GROUT
AB-2	1"	1 13/16"	2'-5"	7"	3" x ⅜"	YES	2" LEVELING GROUT

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NORTH CAROLINA WOODS ENGINEERING, P.A. CORPORATE SEAL No. C-1606

NORTH CAROLINA PROFESSIONAL SEAL 19475 ENGINEER DON R. WOODS

Digitally signed by Don R. Woods, PE
DN: cn=drwoods@woodseng.com, c=US, o=Woods, PE, OU=WOODS ENGINEERING, P.A., L=Wilmington, S=North Carolina, C=US
Date: 2022.08.10 14:20:43-04'00'

Michael Jordan Family Medical Clinic - Wilmington

No.	Description	Date

CONSTRUCTION DOCUMENTS

GENERAL NOTES

ISSUE DATE 08/10/2022
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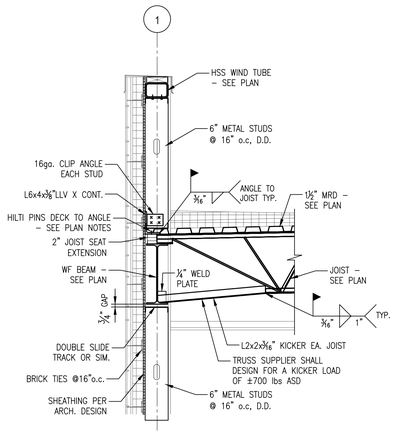
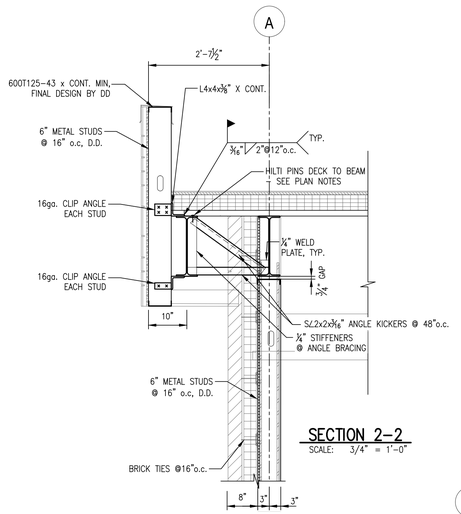
PROJECT NUMBER 21-3353

S3.01

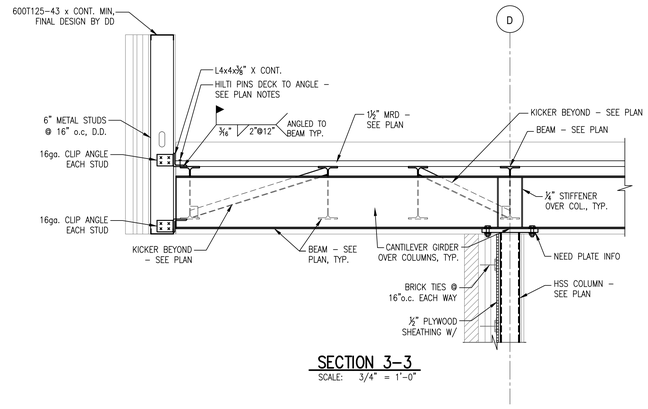
5/6/2022 9:09:29 AM BIM 360://21-025 Novant MJ Clinic Wilmington/ST_MJ CLINIC_v21.rvt



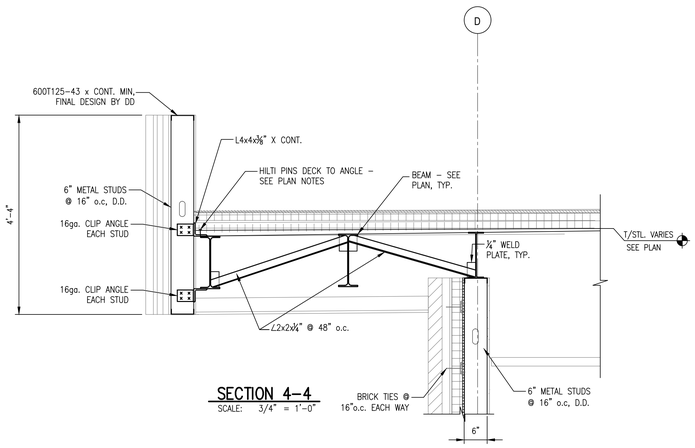
SECTION 1–1
SCALE: 3/4" = 1'–0"



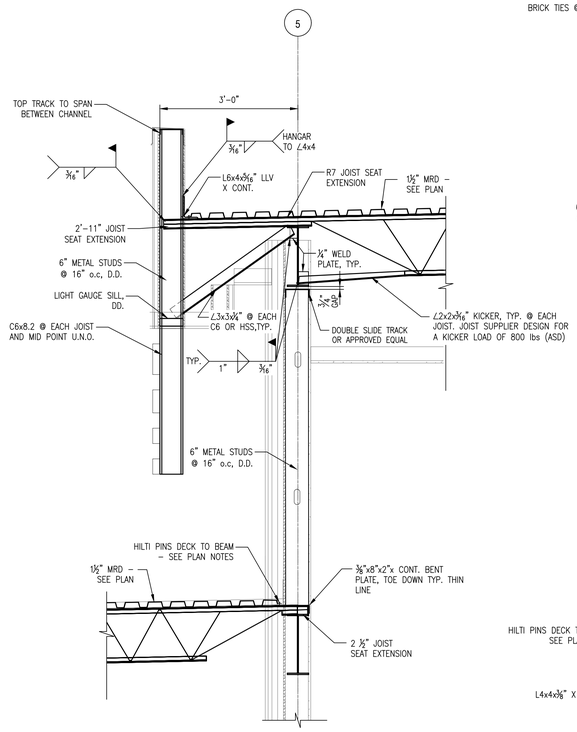
SECTION 2–2
SCALE: 3/4" = 1'–0"



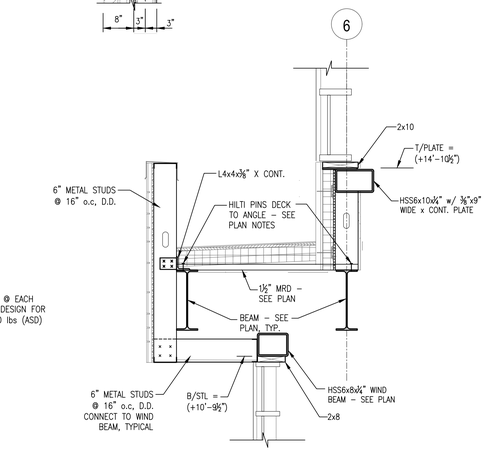
SECTION 3–3
SCALE: 3/4" = 1'–0"



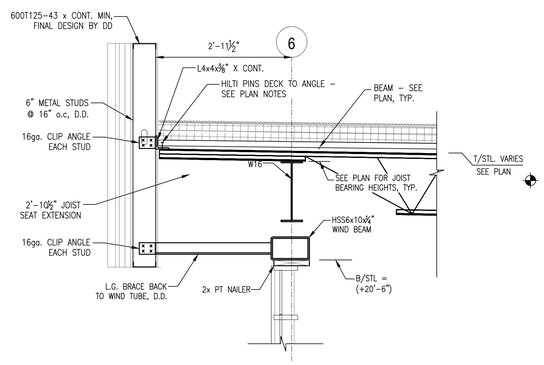
SECTION 4–4
SCALE: 3/4" = 1'–0"



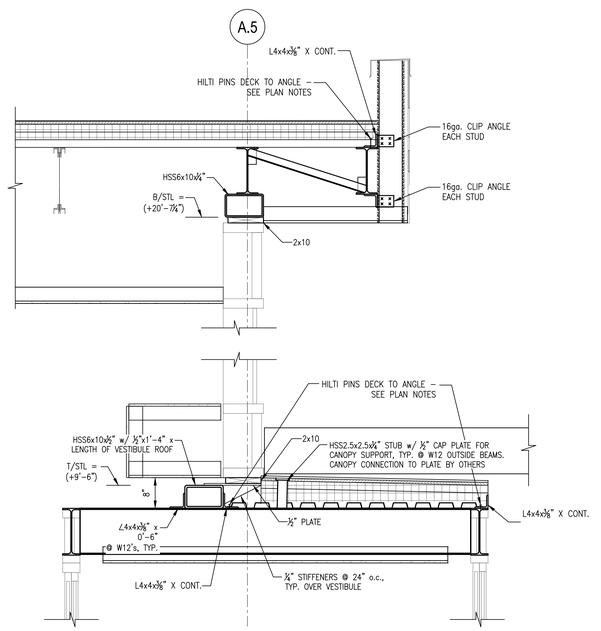
SECTION 5–5
SCALE: 3/4" = 1'–0"



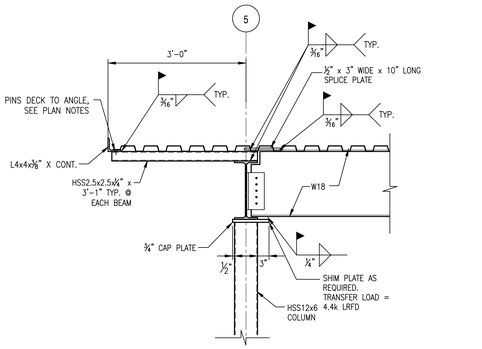
SECTION 6–6
SCALE: 3/4" = 1'–0"



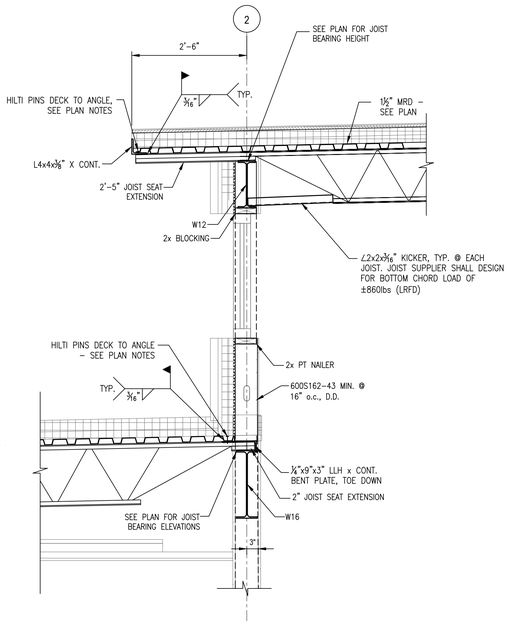
SECTION 7–7
SCALE: 3/4" = 1'–0"



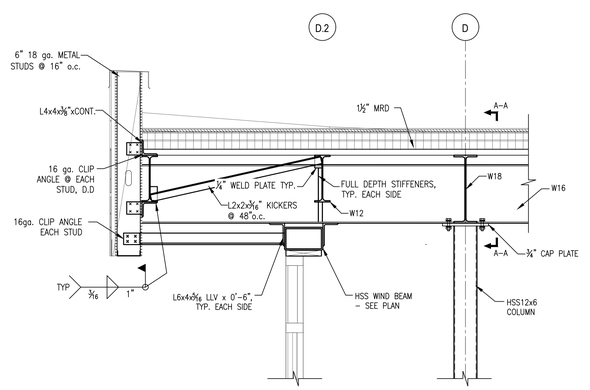
SECTION 8–8
SCALE: 3/4" = 1'–0"



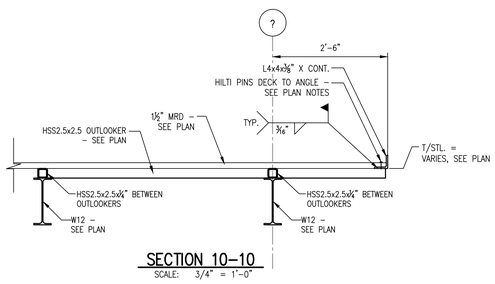
DETAIL A–A
SCALE: 3/4" = 1'–0"



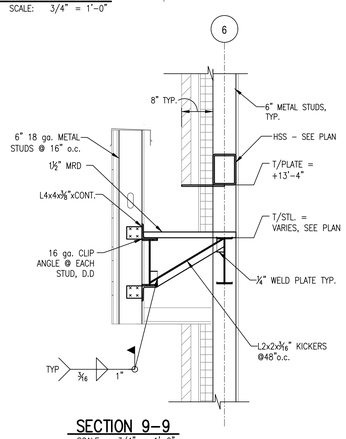
SECTION 11–11
SCALE: 3/4" = 1'–0"



SECTION 12–12
SCALE: 3/4" = 1'–0"



SECTION 10–10
SCALE: 3/4" = 1'–0"



SECTION 9–9
SCALE: 3/4" = 1'–0"

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WOODS ENGINEERING, P.A. CORPORATE SEAL No. C-1606 NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 19475 ENGINEER DON R. WOODS

Digitally signed by Don R. Woods, PE
DN: E=drwoods@woodseng.com, CN=Don R. Woods, PE, O="WOODS ENGINEERING, P.A.", L=Wilmington, S=North Carolina, C=US
Date: 2022.08.10 14:20:51-04'00'

Michael Jordan Family Medical Clinic - Wilmington

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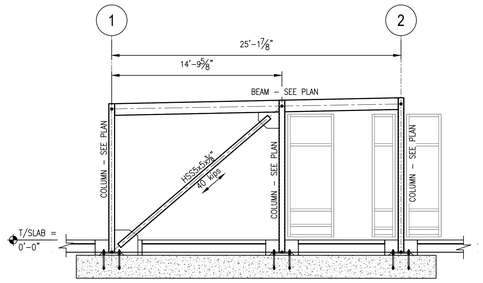
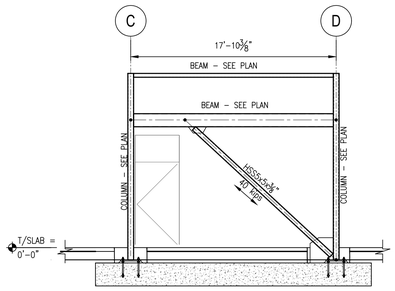
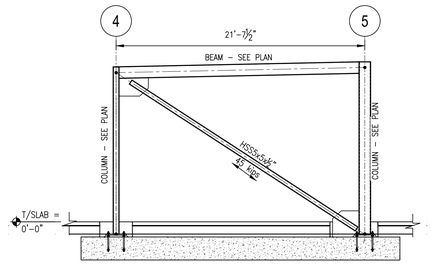


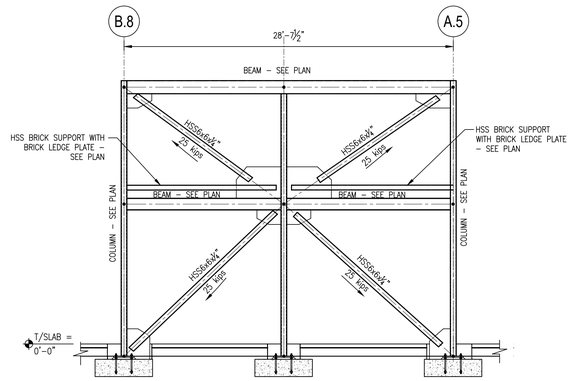
BF-1
SCALE: 3/16" = 1'-0"



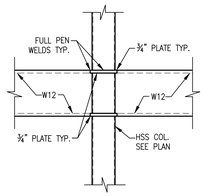
BF-2
SCALE: 3/16" = 1'-0"



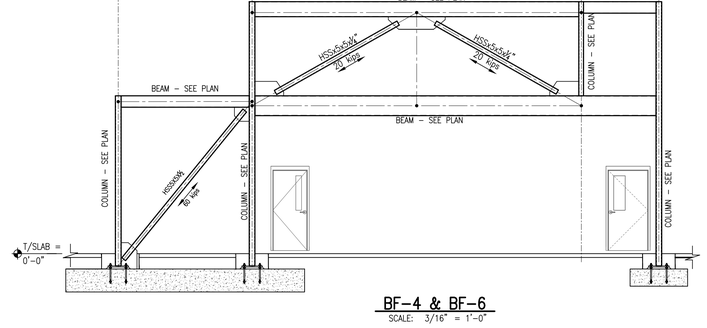
BF-3
SCALE: 3/16" = 1'-0"



BF-5
SCALE: 3/16" = 1'-0"
TENSION BRACE ONLY



SECTION 1-1
SCALE: 3/4" = 1'-0"



BF-4 & BF-6
SCALE: 3/16" = 1'-0"

ALL LOADS ARE LRFD

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