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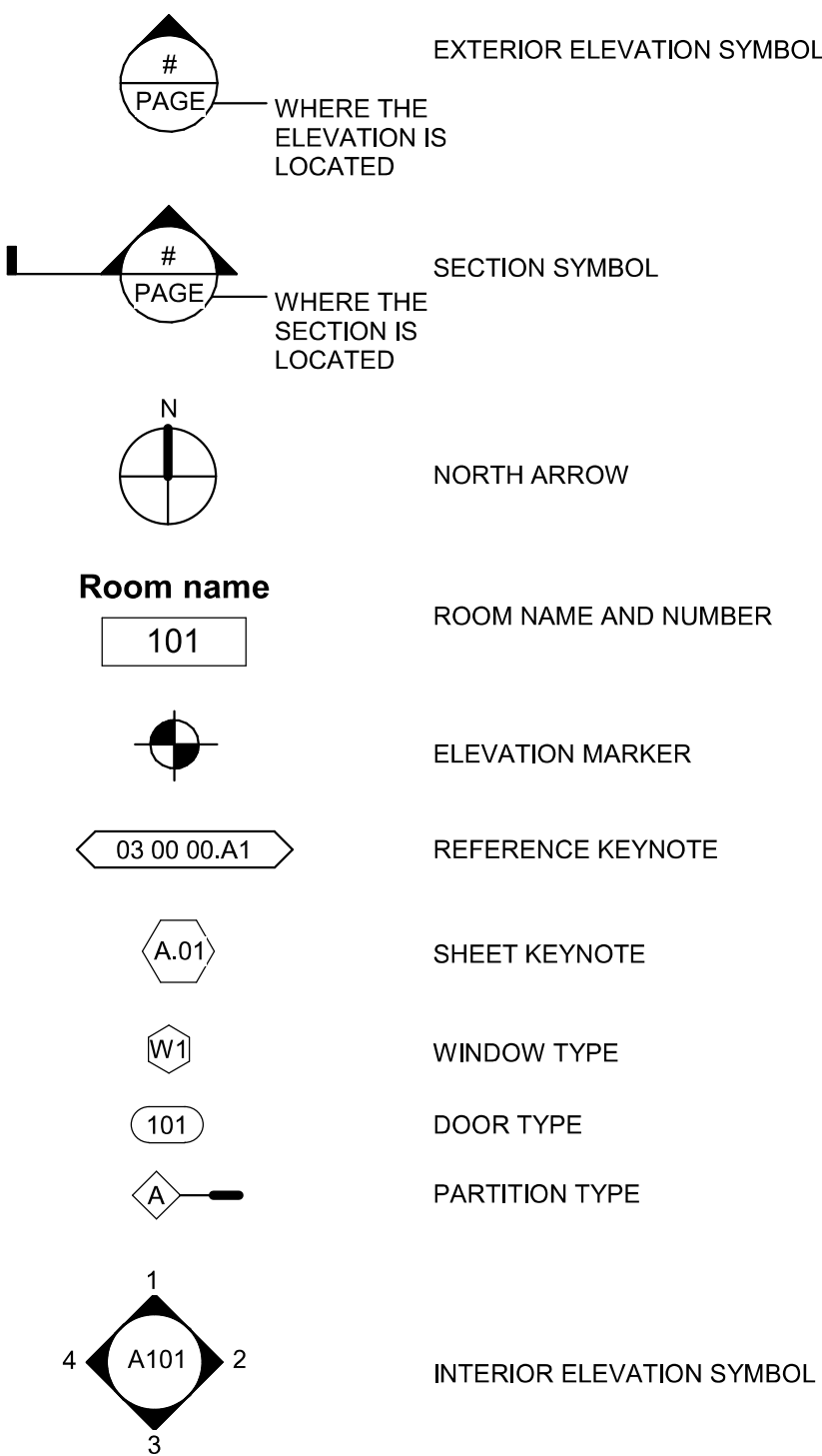
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# GASTON C.C. MODULAR MEDICAL OFFICE

GASTON CORRECTIONAL CENTER  
520 JUSTICE COURT, DALLAS, NC  
28034

JOB ORDER # 4540  
SCO ID # 24-27820-01A

## SYMBOL LEGEND



## ARCHITECT / ENGINEERS OF RECORD

### ARCHITECT

L. SCOTT BOOTH 919.324.1262  
SCOTT.BOOTH@DAC.NC.GOV

### CIVIL

CHARLES BROWN 704.564.5841  
CBROWN@CAPSTONECIVILCOMPANIES.COM

### STRUCTURAL

ADRIAN DURHAM 704.900.8706  
ADRIAN.DURHAM@STRUCTURALCAPACITY.COM

### MECHANICAL

MATT HARPER 919.324.1260  
MATTHEW.HARPER@DAC.NC.GOV

### PLUMBING

MATT HARPER 919.324.1260  
MATTHEW.HARPER@DAC.NC.GOV

### FIRE PROTECTION

N/A

### ELECTRICAL

ESMAEL MOVAHED 919.324.1258  
ESMAEL.MOVAHED@DAC.NC.GOV

### FIRE ALARM

ESMAEL MOVAHED 919.324.1258  
ESMAEL.MOVAHED@DAC.NC.GOV

### ELECTRONICS

ELECTRONICS NAME ELECTRONICS PHONE  
ELECTRONICS EMAIL

## DRAWING INDEX

### GENERAL

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### ELECTRICAL

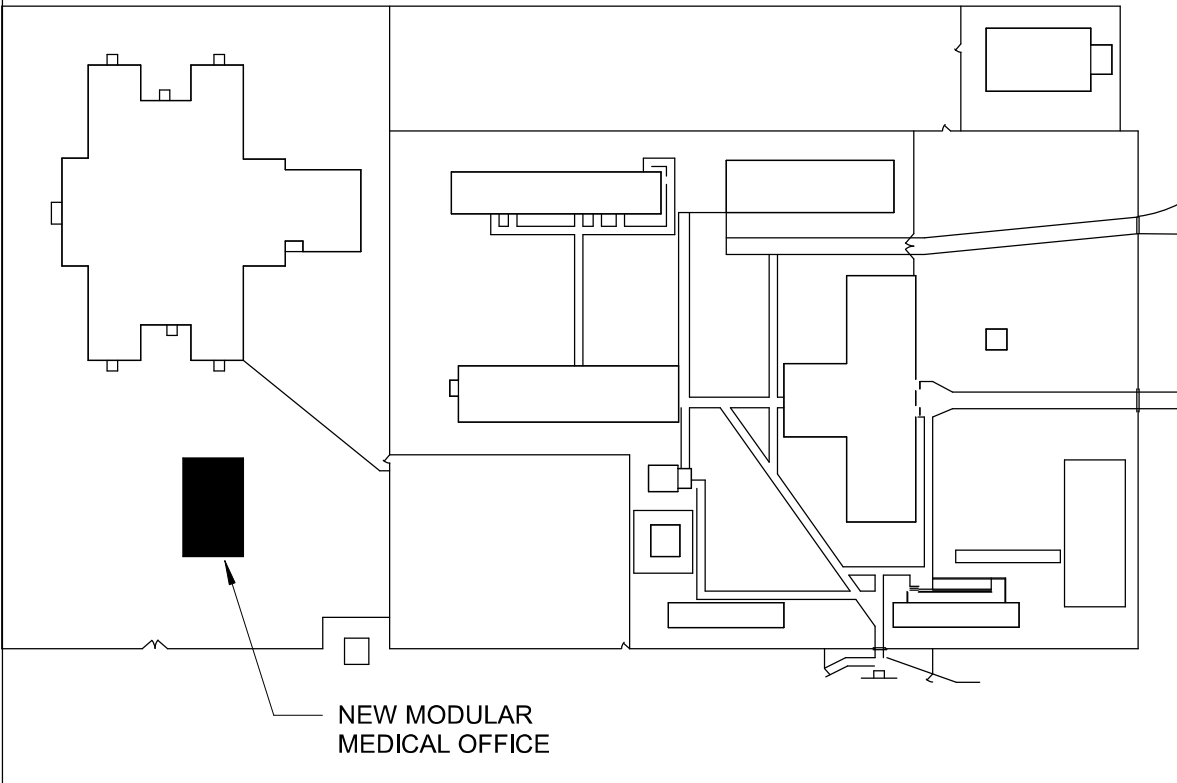
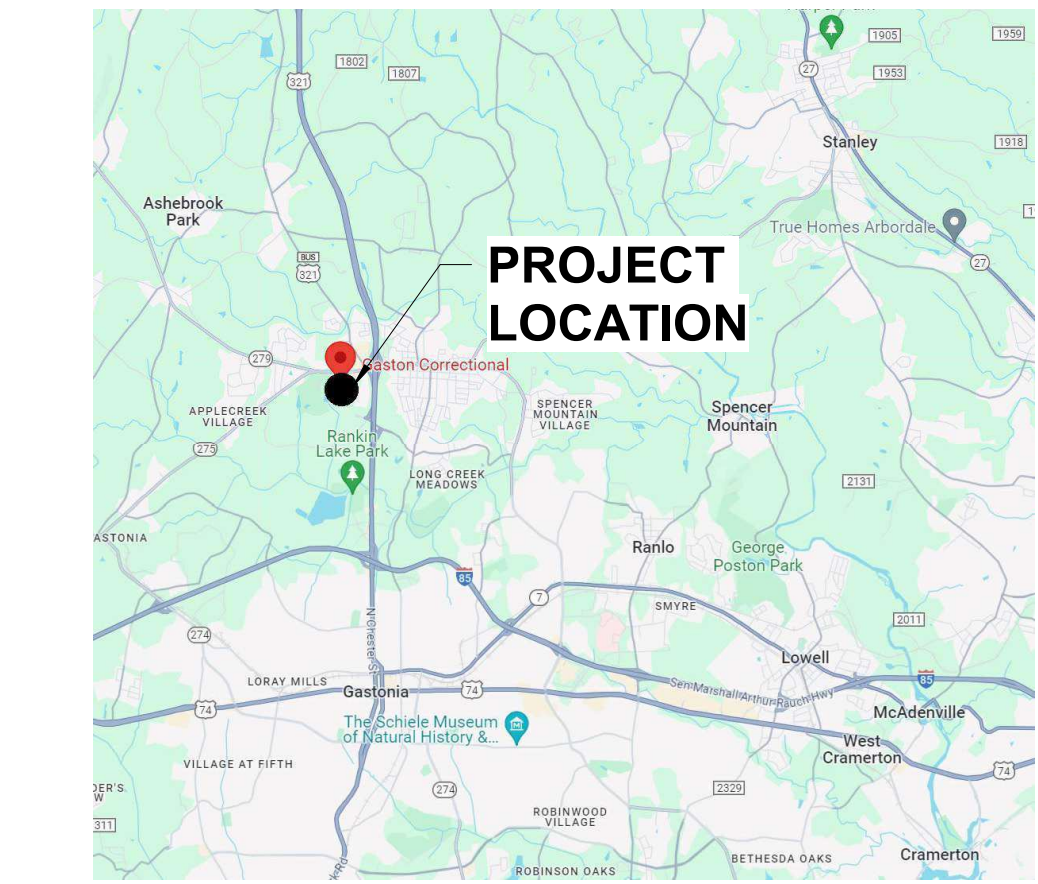
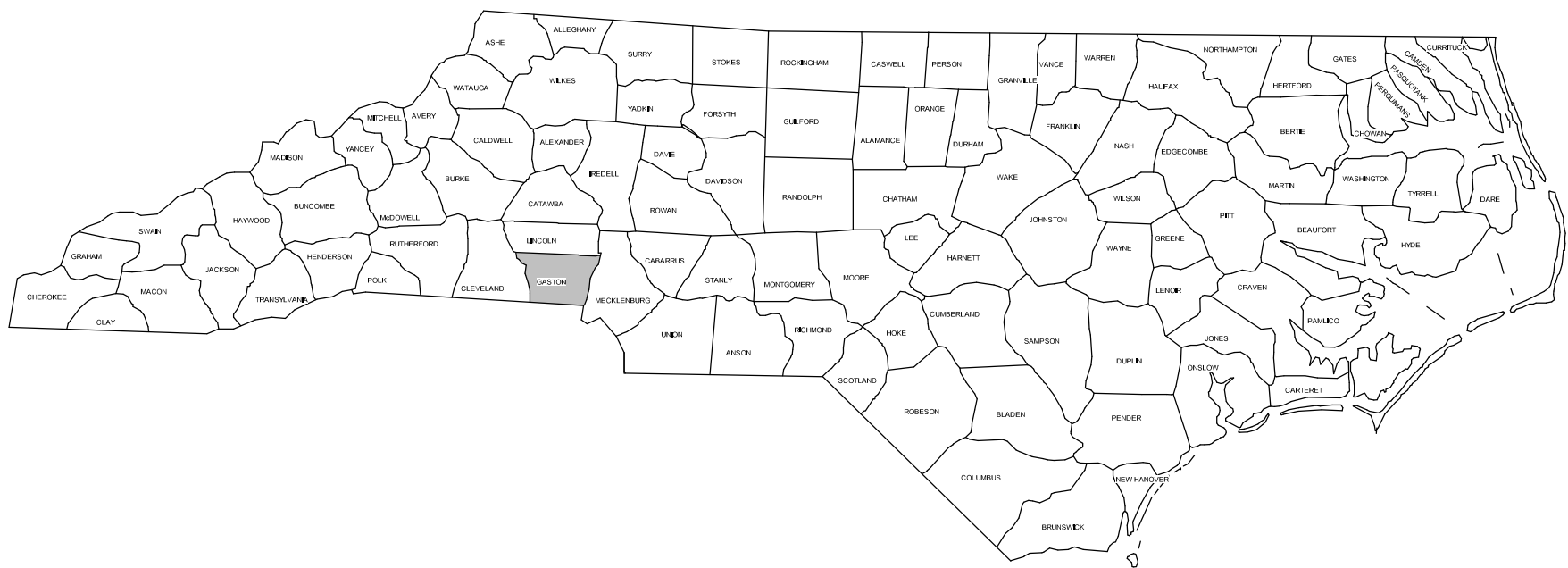
ES101 SITE ELECTRICAL  
E001 ELECTRICAL GENERAL NOTES, SYMBOLS LEGEND & DETAILS  
E601 ELECTRICAL SINGLE LINE DIAGRAM, SCHEDULES & DETAILS

### MODULAR CONSTRUCTION NOTES:

- THIS PROJECT INCLUDES A SHOP PREFABRICATED MEDICAL OFFICE BUILDING TO BE INSTALLED WITHIN A CORRECTIONAL FACILITY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORK TO BE CONSTRUCTED ON THE SITE (UTILITIES, FOUNDATION, ANCHORAGE, FENCING, UTILITY CONNECTIONS TO THE BUILDING, CLOSURE OF BUILDING) WITH WORK TO BE PROVIDED AS A PART OF THE MODULAR BUILDING.
- THE CONTRACTOR SHALL ENGAGE WITH A QUALIFIED MODULAR MEDICAL OFFICE PROVIDER (DEALER) / MANUFACTURER FOR THE DELEGATED DESIGN, SHOP DRAWINGS, FABRICATION, DELIVERY, AND INSTALLATION OF THE BUILDING.
- THE MODULAR MANUFACTURER MUST BE APPROVED FOR COMMERCIAL BUILDINGS THROUGH THE NCDO/OSFM MODULAR CONSTRUCTION PROGRAM. THE MODULAR BUILDING MUST COMPLY WITH THE CURRENT EDITION OF THE NORTH CAROLINA BUILDING CODE, ALL VOLUMES, AND HAVE A THIRD PARTY CERTIFICATION AGENCY SEAL. INCLUDE ALL LABOR, MATERIALS, FABRICATION, DELIVERY, SET-UP AND RELATED OPERATIONS, AND ALL INCIDENTAL WORK REQUIRED FOR A COMPLETED FACILITY READY FOR ACCEPTANCE.
- THE MODULAR UNIT MUST ADHERE TO ALL DOT REQUIREMENTS REGARDING OVERSIZE/OVERWEIGHT RESTRICTIONS FOR ALL STATES IN WHICH TRANSIT TRAVERSES IN ORDER TO BE DELIVERED TO THE PROJECT SITE.
- THE MODULAR UNIT SHALL BE DELIVERED, SET-UP AND ANCHORED ON A PERIMETER MASONRY STEMWALL FOUNDATION WITH CENTER MASONRY PIERS, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- REFER TO SPECIFICATION SECTION 13500 FOR ADDITIONAL INFORMATION.

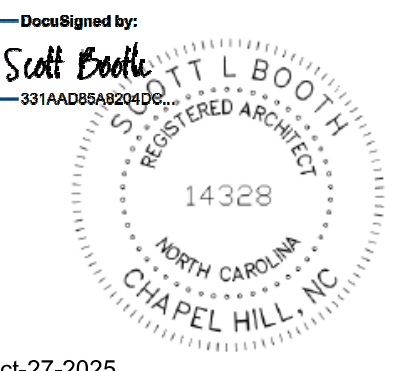
MODULAR BUILDING SHOP DRAWING APPROVAL PROCESS:  
THE FOLLOWING INFORMATION IS PROVIDED AS A COURTESY TO THE CONTRACTOR. REFER TO SPECIFICATION SECTION 013300 SUBMITTAL PROCEDURES.

- CONTRACTOR WILL PROVIDE PRELIMINARY MODULAR BUILDING SHOP DRAWINGS TO THE OWNER, DIVISION OF INSTITUTIONS, FOR REVIEW AND APPROVAL OF COMPLIANCE WITH CONSTRUCTION (BID) DOCUMENTS AND DESIGN INTENT.
- MODULAR BUILDING SHOP DRAWINGS WILL BE BASED ON OWNER-APPROVED PRELIMINARY SHOP DRAWINGS.
- MODULAR BUILDING MANUFACTURER WILL COORDINATE APPROVAL OF SHOP DRAWINGS THROUGH NCDOI CERTIFIED THIRD PARTY INSPECTOR.
- MODULAR BUILDING SHOP DRAWINGS WILL BE SIGNED AND SEALED BY DESIGN PROFESSIONALS REGISTERED IN THE STATE OF NORTH CAROLINA, AND WILL CONTAIN ALL CODE COMPLIANCE DATA SHEETS (APPENDIX B), CALCULATIONS, PLANS, AND SPECIFICATIONS AS REQUIRED BY THIRD PARTY INSPECTOR.
- CONTRACTOR SHALL SUBMIT APPROVED MODULAR BUILDING SHOP DRAWINGS ELECTRONICALLY TO THE OWNER FOR REVIEW AND COMMENT PRIOR TO THE START OF FABRICATION, INCLUDING LETTER OF APPROVAL BY THE THIRD PARTY INSPECTOR. THE CONTRACTOR WILL INCLUDE COORDINATION DRAWINGS REQUIRED FOR ANY ITEMS CONSTRUCTED OR INSTALLED ON THE SITE.
- OWNER COMMENTS WILL BE RETURNED TO THE CONTRACTOR FOR INCORPORATION INTO THE SHOP DRAWINGS.
- THE CONTRACTOR WILL RETURN CORRECTED SHOP DRAWINGS TO THE OWNER.
- THE OWNER WILL SUBMIT THE CORRECTED SHOP DRAWINGS TO THE NORTH CAROLINA STATE CONSTRUCTION OFFICE (SCO) FOR LIMITED REVIEW AND COMMENT. (MINIMUM 15 DAY REVIEW). SCO REVIEW IS LIMITED TO THE SITE; UTILITY CONNECTIONS - WATER, SEWER, GAS, ELECTRICITY, DATA; FOUNDATION; DECK, STEPS AND RAMP; ACCESSIBLE PARKING AND ROUTE TO AN ACCESSIBLE RAMP.
- SCO WILL RETURN COMMENTS TO THE OWNER. THE OWNER SHALL FORWARD COPY OF COMMENTS TO THE CONTRACTOR.
- THE CONTRACTOR SHALL INCORPORATE SCO COMMENTS INTO THE SHOP DRAWINGS.
- THE CONTRACTOR SHALL RETURN A CORRECTED FINAL SET OF SHOP DRAWINGS TO THE OWNER, INCLUDING WRITTEN RESPONSES TO ALL SCO COMMENTS. RESPONSES SHALL INDICATE THE CORRECTION MADE AND LOCATION OF CORRECTION IN THE DRAWINGS.
- THE OWNER SHALL SUBMIT THE FINAL SHOP DRAWINGS AND WRITTEN RESPONSES TO SCO FOR APPROVAL. (MINIMUM 15 DAY REVIEW). SEE NOTE 8 OUTLINE OF SCO LIMITED SCOPE REVIEW.
- SCO WILL PROVIDE A WRITTEN RESPONSE TO OWNER APPROVING SHOP DRAWINGS. SEE NOTE 8 FOR OUTLINE OF SCO LIMITED SCOPE REVIEW.
- OWNER WILL NOTIFY CONTRACTOR THAT SHOP DRAWINGS ARE APPROVED FOR FABRICATION.
- MODULAR BUILDING MANUFACTURER WILL PROVIDE COPY OF FINAL SHOP DRAWINGS TO THIRD PARTY INSPECTOR INCLUDING CHANGES FOR ANY SCO COMMENTS.



NORTH CAROLINA  
DEPARTMENT  
OF ADULT  
CORRECTION

2020 YONKERS ROAD  
4216 MSC  
RALEIGH, NC 27699-4216  
TEL (919) 716-3400  
FAX (919) 716-3978



Oct-27-2025

10/17/2025 IFC SUBMISSION

NO. DATE REVISION

DRAWN BY: Author

DESIGNED BY: Delegated Design

CHECKED BY: L. Scott Booth

CADD DWG NO: G-001

JOB ORDER NO: 4540

PLOT DATE: 10/17/25

GASTON  
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520 JUSTICE COURT, DALLAS, NC  
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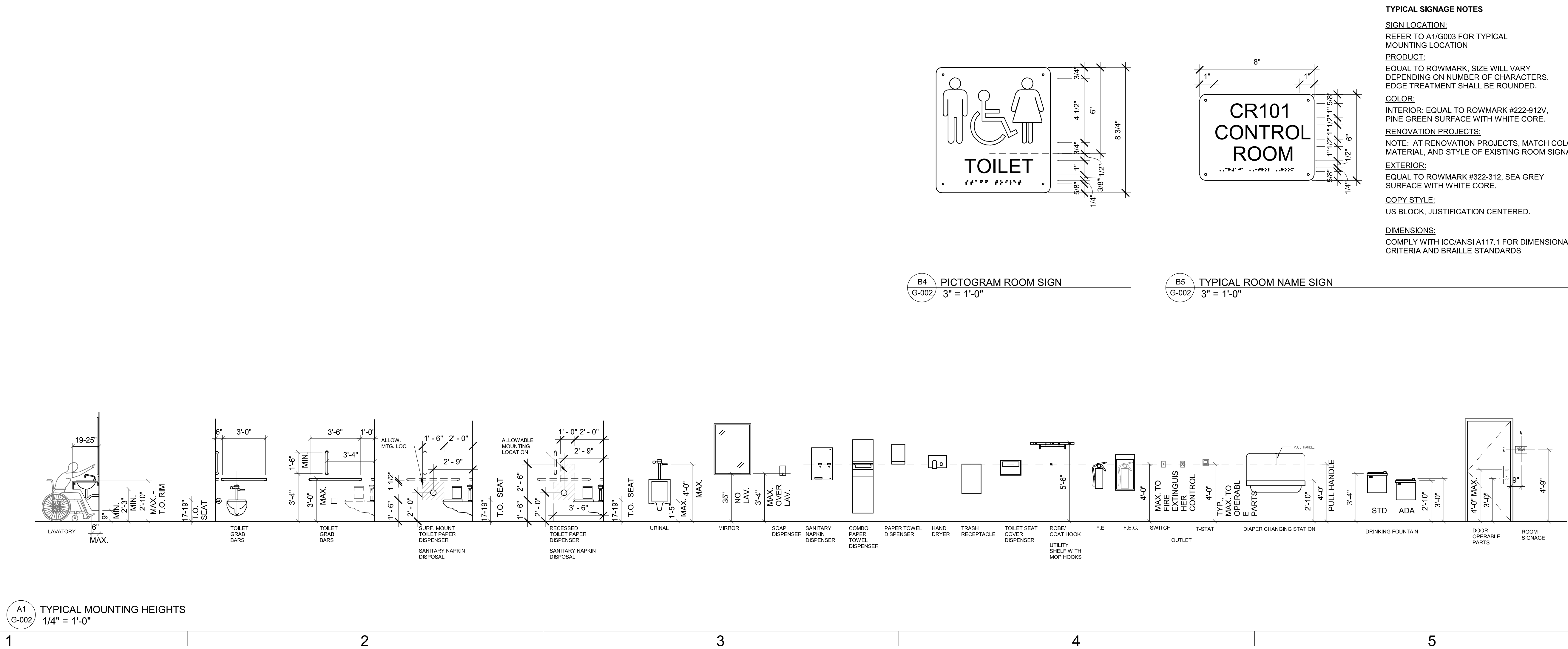
COVER SHEET

G-001



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G-002







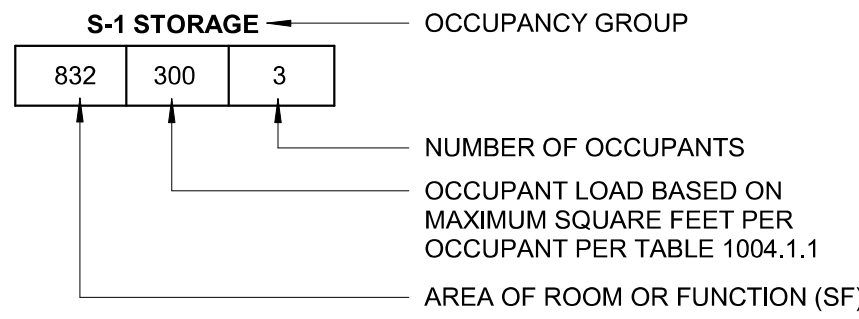


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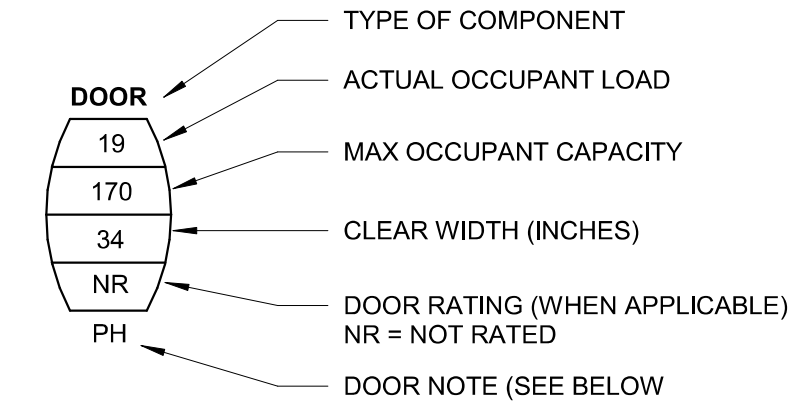
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G-101  
FIRST FLOOR LIFE SAFETY PLAN  
1/4" = 1'-0"

LIFE SAFETY LEGEND

OCCUPANCY GROUP



EGRESS COMPONENT

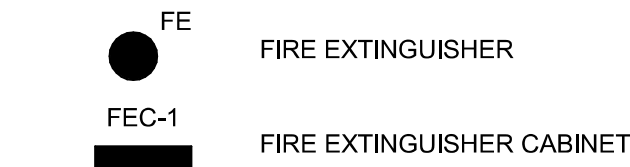


DOOR NOTES:

PH: PANIC HARDWARE  
HO: HOLD OPEN DEVICE  
AO: AUTOMATIC DOOR OPERATOR  
DE: DELAYED EGRESS  
CE: CONTROLLED EGRESS

EGRESS WIDTH PER OCC.:

STAIRWAYS: 0.3 INCHES  
OTHER: 0.2 INCHES  
REFER TO NCBC T. 1005.1



FIRE EXTINGUISHER CABINET TYPES:

FEC-1: FULL RECESSED  
FEC-2: SEMI-RECESSED  
FEC-3: SURFACE MOUNTED

GENERAL NOTES

- CONTRACTOR SHALL INFORM THE DESIGN IN WRITING IF ANYTHING SHOWN IN THE CONTRACT DOCUMENTS IS INCONSISTANT TO WHAT IS FOUND ON SITE.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION DOCUMENTS AND APPROVED SUBMITTALS. IF ANY INCONSISTANCIES OR ERRORS ARE FOUND CONTRACTOR SHALL INFORM DESIGNER IN WRITING.

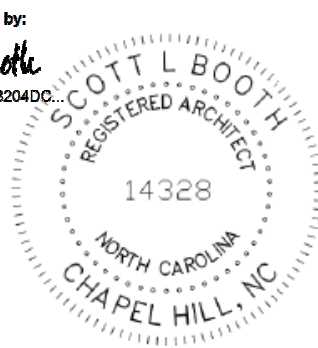


NORTH CAROLINA  
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2020 YONKERS ROAD  
4216 MSC  
RALEIGH, NC 27699-4216

TEL (919) 716-3400  
FAX (919) 716-3978

Designed by:  
Scott Booth  
331A008262040C



Oct-27-2025

10/17/2025 IFC SUBMISSION

NO.	DATE	REVISION
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DRAWN BY: Author

DESIGNED BY: Delegated Design

CHECKED BY: L. Scott Booth

CADD DWG NO: G-101

JOB ORDER NO: 4540

PLOT DATE: 10/17/25

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520 JUSTICE COURT, DALLAS, NC  
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GASTON C.C. MODULAR  
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FIRST FLOOR LIFE SAFETY  
PLAN

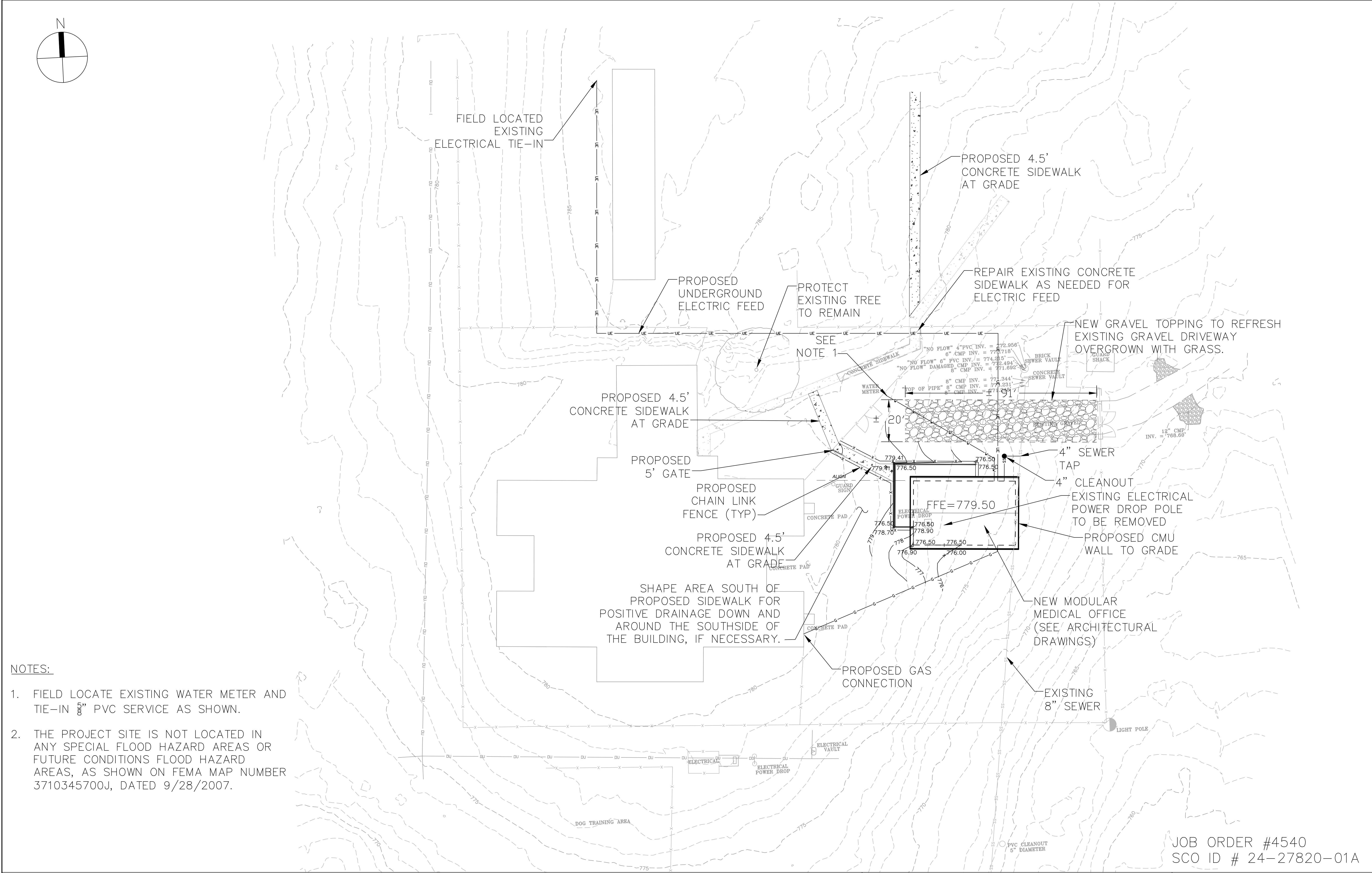
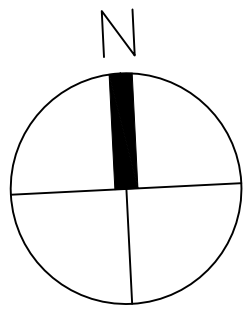
LIFE SAFETY PLAN  
RATED PARTITION LEGEND



KEY PLAN

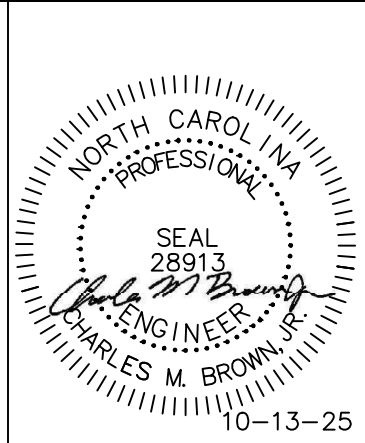
G-101





NOTES:

- 1. FIELD LOCATE EXISTING WATER METER AND TIE-IN 5" PVC SERVICE AS SHOWN.
- 2. THE PROJECT SITE IS NOT LOCATED IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FEMA MAP NUMBER 3710345700J, DATED 9/28/2007.



GASTON CORRECTIONAL CENTER  
520 JUSTICE COURT, DALLAS, NORTH CAROLINA  
SITE PLAN

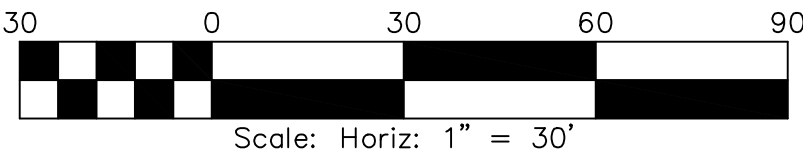
PROJECT NUMBER 4540	
REVISIONS	
NO.	DATE
DATE ISSUED: 05/31/24	
DRAWN BY: JBS	
CHECKED BY: CB	
SHEET NO.	

JOB ORDER #4540  
SCO ID # 24-27820-01A



CAPSTONE CIVIL ENGINEERING, INC.

704.564.5841 (OFFICE)  
980.722.4194 (MOBILE)  
WWW.CAPSTONECIVILCOMPANIES.COM  
NC CORPORATE REGISTRATION #C-4207



1 OF 1



D

- 1.0. GENERAL NOTES
- 1.1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASIS, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN STRUCTURAL WORK.
- 1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- 1.3. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 1.4. LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION IS THE CONTRACTOR'S SOLE RESPONSIBILITY AND SHALL NOT EXCEED THE SAFE LOAD - CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
- 1.5. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.
- 1.6. UNLESS OTHERWISE INDICATED, ALL ITEMS NOTED TO BE DEMOLISHED SHALL BECOME THE CONTRACTOR'S PROPERTY AND BE REMOVED FROM THE SITE.
- 1.7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS.
- 1.8. THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN WRITING, OF ANY DEVIATION OR SUBSTITUTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS NOT RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION, AND THE STRUCTURAL ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.
- 1.9. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS, THEN THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE STRUCTURAL ENGINEER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE AFFECTED WORK MAY PROCEED.
- 1.10. IF THE CONTRACTOR CANNOT CONSTRUCT ANY PORTION OF THE WORK IDENTIFIED IN THE DRAWINGS IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THEN THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK. WORK THAT DOES NOT COMPLY WITH THE DRAWINGS MAY REQUIRE REMOVAL, TESTING, OR ENGINEERING EVALUATION AT THE CONTRACTOR'S EXPENSE.
- 1.11. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
- 1.12. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS, INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP, FABRICATION, OR OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.
- 1.13. BEFORE PRECEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL BE FAMILIARIZED WITH THE EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.

2.0. CODES AND STANDARDS

- 2.1. NORTH CAROLINA BUILDING CODE 2018 (NCBC 2018).
- 2.2. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", (ASCE 7-10).
- 2.3. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", (ACI 318-14).
- 2.4. "MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- 2.5. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", (NDS 2015).
- 2.6. "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", (ACI 530-13).

3.0. DESIGN LOADS

- 3.1. MODULAR BUILDING COMPONENTS TO MEET OR EXCEED THE BELOW LISTED DESIGN LOAD CRITERIA.
- 3.2. ROOF LIVE LOAD - 20psf
- 3.3. FLOOR LIVE LOADS
- 3.3.1. CORRIDOR - 100psf
- 3.3.2. DECK - 100psf
- 3.3.3. OTHER AREAS - 50psf
- 3.4. WIND/SEISMIC

WIND AND SEISMIC LOADS

ASCE 7-10				
WIND LOADS				
ITEM	SYMBOL	VALUE	REFERENCE	
BASIC WIND SPEED (3 SEC GUST)	V	115 MPH ( $V_{adj} = 89\text{MPH}$ )	FIGURE 26.5-1	
WIND LOAD IMPORTANCE FACTOR	$I_w$	1.00	TABLE 1.5-2	
WIND LOAD EXPOSURE CATEGORY	-	C	SECTION 26.7.3	
ANALYSIS PROCEDURE	MWFRS (LOW-RISE BUILDING)		SECTION 26.12.1	FIGURE 27.4-1
WIND BASE SHEAR	$V_x$	7K		
	$V_y$	10K		
SEISMIC LOADS				
ITEM	SYMBOL	VALUE	REFERENCE	
SEISMIC LOAD IMPORTANCE FACTOR	$I_e$	1.00	TABLE 1.5-2	
SHORT PERIOD SPECTRAL ACCELERATION	$S_s$	0.234	SECTION 11.4.1	
(1) SECOND PERIOD SPECTRAL ACCELERATION	$S_1$	0.1	SECTION 11.4.1	
RISK CATEGORY	OC	II	TABLE 1.5-2	
SEISMIC DESIGN CATEGORY	SDC	C	SECTION 12.5	
SITE CLASSIFICATION	-	D	SECTION 20.1	TABLE 20.3-1
BASIC STRUCTURAL SYSTEM	-	BEARING WALL SYSTEMS	TABLE 12.2-1	
BASIC SEISMIC-RESISTING SYSTEM	-	LIGHT FRAME WOOD WALL SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	TABLE 12.2-1	
RESPONSE MODIFICATION FACTOR	R	6.5	TABLE 12.2-1	
SYSTEM OVERSTRENGTH FACTOR	$\Omega_e$	3	TABLE 12.2-1	
DEFLECTION AMPLIFICATION FACTOR	$C_d$	4	TABLE 12.2-1	
ANALYSIS PROCEDURE	-	EQUIVALENT LATERAL FORCE	SECTION 12.8	
SEISMIC BASE SHEAR	$V_x$	3K	EQUATION 12.8-1	
	$V_y$	3K		

3.5 SNOW

SNOW LOADS (PSF)				
ASCE 7-10				
ITEM	SYMBOL	VALUE	REFERENCE	
GROUND SNOW LOAD	P <sub>g</sub>	10.0	FIGURE 7-1	
SNOW EXPOSURE FACTOR	C <sub>e</sub>	1.0	TABLE 7-2	
THERMAL FACTOR	C <sub>t</sub>	1.0	TABLE 7-3	
SNOW LOAD IMPORTANCE FACTOR	I <sub>s</sub>	1.0	TABLE 7-4	
RAIN ON SNOW SURCHARGE	R <sub>s</sub>	5.0	SECTION 7-10	
SLOPE FACTOR	C <sub>s</sub>	-	FIGURE 7-2	
FLAT-ROOF SNOW LOAD	P <sub>f</sub>	7.0	EQUATION 7-1	
SLOPED-ROOF SNOW LOAD	P <sub>s</sub>	7.0	EQUATION 7-2	
MINIMUM FLAT-ROOF SNOW LOAD	P <sub>min</sub>	-	SECTION 7.3.4	
DESIGN ROOF SNOW LOAD	P <sub>design</sub>	12.0		

4.0 SITE PREPARATION NOTES

- 4.1. REMOVE ALL ORGANICS, PAVEMENT, ROOTS, DEBRIS AND OTHERWISE UNSUITABLE MATERIAL.
- 4.2. THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND/OR TESTING AGENCY.
- 4.3. FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE IN 8 INCH LOOSE LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-698.
- 4.4. ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHERWISE DELETERIOUS MATERIAL WITH NOT MORE THAN 20% BY WEIGHT PASSING A NO. 200 SIEVE (CLASSIFIED AS SC, SM, SP OR BETTER IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM) AND WITH A PLASTICITY INDEX NOT EXCEEDING 6%.

5.0 FOUNDATION NOTES

- 5.1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT, DATED OCTOBER 25, 2024, BY CAPSTONE CIVIL ENGINEERING. THE RECOMMENDATIONS OF THE "REPORT" IS HEREIN MADE A PART OF THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- 5.2. ALL FOOTINGS SHALL BE DESIGNER DESIGNED UPON A SOIL BEARING PRESSURE OF 2000 PSF AND SITE CLASSIFICATION "D" PER THE ABOVE REFERENCED GEOTECHNICAL REPORT.
- 5.3. ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL. ALL FOOTINGS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER AND/OR TESTING AGENCY, INCLUDING VERIFICATION OF THE ABOVE ASSUMED SOIL BEARING PRESSURE PRIOR TO POURING FOUNDATION CONCRETE.
- 5.4. UNLESS OTHERWISE, THE CENTERLINES OF COLUMN FOOTINGS SHALL COINCIDE WITH THE CENTERLINE OF THE SUPPORTED COLUMN.
- 5.5. PRIOR TO COMMENCING ANY FOUNDATION WORK, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. STRUCTURAL ENGINEER MUST BE NOTIFIED IF FOOTINGS ARE LOWERED MORE THAN 1'-0" RELATIVE TO THAT WHICH IS SHOWN.
- 5.6. NO UNBALANCED BACKFILLING SHALL BE PLACED AGAINST FOUNDATION WALL UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING AND SLIDING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
- 5.7. WHERE FOOTING EXCAVATIONS MUST REMAIN OPEN OVERNIGHT OR IF RAINFALL BECOMES IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2" TO 4" THICK MUD MAT OF UNREINFORCED (F'c=2000 PSI) CONCRETE SHALL BE PLACED ON THE BEARING SOILS BEFORE PLACEMENT OF THE FOOTING REINFORCING.
- 5.8. TOP OF FOOTING (T.O.F.) ELEVATIONS ARE SHOWN ON THE DRAWINGS OR ARE TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD IN ACCORDANCE WITH THE GUIDELANDS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS.
- 5.9. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 1'-6" BELOW FINAL GRADE FOR FROST PROTECTION.
- 5.10. TESTING AND INSPECTION:

A. ALL FOUNDATION BEARING/FOUNDING STRATA SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO ANY CONCRETE PLACEMENT.

B. GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO SUITABILITY OF ALL FOUNDATION /FOUNDING STRATA.

C. 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.

- 5.11. UNACCEPTABLE SOILS: CONTRACTOR SHALL REMOVE AND REPLACE UNACCEPTABLE SOILS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND/OR AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER. ALL SOILS WITH PLASTICITY INDICES GREATER THAN 15 OF WHICH MORE THAN 10% PASSES A #200 SIEVE SHALL BE REMOVED TO A DEPTH OF NOT LESS THAN 3'-0" OR GREATER AS DIRECTED BY THE GEOTECHNICAL ENGINEER WHERE SUCH MATERIAL OCCURS BELOW FOUNDATIONS.
- 5.12. 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 60, UNIT WEIGHT OF 120 PCF (+/- 5 PCF), AND SHALL NOT CONTAIN MORE THAN 5% BY WEIGHT OF FIBROUS ORGANIC MATERIALS. PARTIALLY WEATHERED ROCK MATERIALS MAY BE USED FOR STRUCTURAL FILL PROVIDED THE MATERIAL CAN BE REDUCED TO MAXIMUM DIMENSIONS OF 6".
- 5.13. DEEP FILL: WHERE SEVERAL FEET OF STRUCTURAL FILL WILL BE REQUIRED TO ACHIEVE THE FINAL GRADES, CONSTRUCTION SHALL BE DELAYED TO PERMIT THE UNDERLYING SOILS SETTLE AND CONSOLIDATE UNDER THE WEIGHT OF THE NEWLY PLACED FILL. OVERBURDEN, SEVERAL WEEKS OF TIME MAY BE REQUIRED FOR THIS SETTLING TO OCCUR. SETTLEMENT PINS SHALL BE INSTALLED AT THE TOP OF THE FILL AND MONITORED TO DETERMINE WHEN THE CONSOLIDATION HAS REACHED A NEGLIGIBLE MOVEMENT THUS PERMITTING CONSTRUCTION TO BEGIN. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE REQUIREMENTS FOR DELAY AND COMPLETION OF ADEQUATE CONSOLIDATION.
- 5.14. EXTENT OF FILL PLACEMENT: STRUCTURAL FILL SHALL EXTEND HORIZONTALLY BEYOND THE EDGE OF BUILDING FOUNDATIONS AT LEAST A DISTANCE OF 10'-0" BUT NOT LESS THAN THE HEIGHT OF THE FILL MATERIAL PLACED. SLOPES AT PERMANENT CUTS SHOULD NOT EXCEED 2:1 (H:V). SLOPE AT PERMANENT FILLS SHOULD NOT EXCEED 2.5:1 (H:V) AND SHOULD BE PROPERLY COMPACTED.
- 5.15. COMPACTION: ALL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO A MINIMUM OF 95 PERCENT STANDARD PROCTOR (ASTM D-698) EXCEPT THAT THE TOP 12 INCHES UNDER FOUNDATIONS AND THE BUILDING PAD SHALL BE COMPACTED TO A MINIMUM OF 98 PERCENT STANDARD PROCTOR. MOISTURE SHALL BE CONTROLLED TO WITHIN 3 PERCENT ABOVE OR BELOW OPTIMUM CONTENT.
- 5.16. REINFORCING IN ALL CONTINUOUS STRIP FOOTINGS SHALL HAVE CORNER BARS OR DOWELS PROVIDED AT ALL CORNERS AND INTERSECTIONS.

6.0 PRE-MANUFACT MODULAR BUILDING NOTES

- 6.1. PRE-MANUFACT MODULAR BUILDING SHALL BE DESIGN SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE AND PROTECT CONTRACT DRAWINGS.
- 6.2. G.C. SHALL PROVIDE DELEGATED DESIGN BY ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
- 6.3. G.C./DELEGATED DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL THE PRE-MANUFACT MODULAR BUILDING COMPONENTS.
- 6.4. G.C./DELEGATED DESIGNER TO PROVIDER SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR REVIEW BY ENGINEER OF RECORD.
- 6.5. G.C./DELEGATED DESIGNER SHALL PROVIDE INDICATE FINAL BUILDING REACTION TO FOUNDATIONS ON SHOP DRAWINGS.

7.0 CAST IN PLACE CONCRETE NOTES

- 7.1. CONCRETE MIXES SHALL BE DESIGNED PER ACI 301 CHAPTER 3, USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595, AGGREGATE CONFORMING TO ASTM C-33, AND ADMIXTURES CONFORMING TO ASTM C-484, C-1017, C-618, C-268 AND C-260. CONCRETE SHALL BE READY MIXED IN ACCORDANCE WITH ASTM C-694.
- 7.2. CONCRETE SHALL CONFORM TO THE FOLLOWING COMPRESSIVE STRENGTH, SLUMP AND UNIT WEIGHT RATIO REQUIREMENTS:

ELEMENTMIN. F<sub>c</sub> (28 DAYS)SLUMP (IN.)UNIT WEIGHT (PCF)

FOOTINGS3000 PSI2-4145
- 7.3. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301. "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETINGS SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- 7.4. WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.
- 7.5. AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH ACI 318 TABLE 4.4.1 SHALL BE USED IN ALL CONCRETE EXPOSED TO FREEZE/THAW CYCLES DURING CONSTRUCTION AND/OR SERVICE CONDITIONS.
- 7.6. WATER/CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ANY CONCRETE SUBJECTED TO FREEZE/THAW CYCLES.
- 7.7. ALL PUMPED CONCRETE SHALL HAVE A WATER/CEMENT RATIO LESS THAN 0.50 AND SHALL CONTAIN A HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER).
- 7.8. IN NO CASE SHALL A CONCRETE MIX HAVE A STRENGTH LESS THAN AND A WATER/CEMENT RATIO THAT EXCEEDS THE FOLLOWING:

F<sub>c</sub> (MIN)MAX W/C RATIO

3000 PSI0.55
- 7.9. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-165, GRADE 60, U.N.O.
- 7.10. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-165.
- 7.11. ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER.
- 7.12. REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT.) SHALL BE LAPPED "LTS" PER EMBEDMENT AND LAP SPLICE SCHEDULE UNLESS OTHERWISE NOTED.
- 7.13. UNLESS NOTED OTHERWISE, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

A) CONCRETE CAST AGAINST EARTH - 3 INCHES

B) SLAB ON GRADE - 1/2 INCHES

C) CONCRETE EXPOSED TO EARTH OR WEATHER - 2 INCHES
- 7.14. BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER AND PLACEMENT. BAR SUPPORTS SHALL BE PLASTIC TIPPED OR STAINLESS STEEL.
- 7.15. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH DOCUMENTATION THAT ALL MATERIALS CONFORM TO THE QUALITY STANDARDS SPECIFIED IN THE GENERAL BUILDING CODE.
- 7.16. CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, ARE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND MAY REQUIRE ADDITIONAL REINFORCING. SUCH JOINTS SHALL PASS CONTINUOUSLY THROUGH THE JOINT.
- 7.17. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIPS, REGLETS, WASHES, MASONRY ANCHORS, ELEVATIONS, SLAB DEPRESSIONS, MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS ANGLES AND ETC.
- 7.18. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
- 7.19. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR UNDERFLOOR, PERIMETER AND OTHER DRAINS AND FOR SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS AND ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR THEIR RESPECTIVE ITEMS.

8.0 MASONRY

- 8.1. MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES".
- 8.2. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, GRADE N-1 AND BE MADE WITH LIGHTWEIGHT AGGREGATE. THE MINIMUM PRISM COMPRESSIVE STRENGTH (f<sub>m</sub>) SHALL BE 2000 PSI AT AN AGE OF 28 DAYS, AS DETERMINED BY THE UNIT STRENGTH METHOD OF ACI 530.1.
- 8.3. FILL ALL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH GROUT. GROUT SHALL CONFORM TO ASTM C-476 AND SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- 8.4. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED OR BENT. PROVIDE A MINIMUM LAP SPLICE PER "CMU LAP SPLICE SCHEDULE" (SEE TYPICAL DETAILS) AT ALL SPLICES, UNLESS INDICATED OTHERWISE.
- 8.5. THE USE OF MASONRY-CEMENT MORTAR IS STRICTLY PROHIBITED. MORTAR SHALL CONFORM TO ASTM C-270, TYPE S. ALL MORTAR SHALL MEET THE "PROPORTION SPECIFICATION" OF ASTM C-270 AND BE MADE WITH PORTLAND CEMENT/IME (NON AIR-ENTRAINED).
- 8.6. UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND. BOND CORNERS AND INTERSECTIONS OF LOAD-BEARING WALLS.
- 8.7. PROVIDE VERTICAL REINFORCING BARS AT ALL WALL CORNERS, INTERSECTIONS AND OPENING EDGES. MASONRY WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "LOW LIFT" OF "HIGH LIFT" DETAILS INDICATED. "HIGH LIFT" MASONRY CONSTRUCTION IS LINE IN THE FOLLOWING: WHERE QUALIFIED CONTRACTORS MEETING THE FOLLOWING MINIMUM REQUIREMENTS:

A. SUCCESSFUL COMPLETION OF AT LEAST THREE PREVIOUS PROJECTS THAT UTILIZED "HIGH LIFT" WALL CONSTRUCTION.

B. CONTRACTOR SHALL SUBMIT A DETAILED "HIGH-LIFT" WALL CONSTRUCTION PROCEDURE FOR APPROVAL, INCLUDING THE DOCUMENTATION OF ALL PERSONNEL WHO HAVE SUCCESSFULLY BEEN TRAINED IN "HIGH-LIFT" MASONRY CONSTRUCTION.
- 8.8. PROVIDE REBAR DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCING SIZE AND SPACING. DOWELS SHALL HAVE STANDARD 90 DEGREE HOOKS AND LAP WITH THE FIRST LIFT OF REINFORCING.
- 8.9. PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS INDICATED. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAMS AT BEARING ELEVATIONS.
- 8.10. PROVIDE STANDARD 3 GAGE HORIZONTAL JOINT REINFORCING AT 16" ON CENTER IN ALL WALLS. PROVIDE TRUSS TYPE JOINT REINFORCEMENT FOR ALL CONCRETE MASONRY. COORDINATE BRICK TIE BACK REQUIREMENTS WITH THE ARCHITECTURAL DRAWINGS. UNLESS NOTED OTHERWISE, STOP ALL HORIZONTAL JOINT REINFORCEMENT AT CONTROL JOINTS.
- 8.11. PROVIDE BOND BEAM LINTELS AND BRICK SHELF ANGLES ABOVE ALL WALL OPENINGS PER TYPICAL DETAILS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL DOOR AND WINDOW OPENINGS.
- 8.12. PROVIDE STEEL JOIST AND BEARING PLATES AND OTHER ACCESSORIES AS INDICATED. PROVIDE (3) COURSES OF SOLIDLY GROUTED CMU BELOW ALL BEAMS.
- 8.13. PROVIDE CMU CONTROL JOINTS AS INDICATED WITH ADDITIONAL JOINTS SUCH THAT THE SPACING BETWEEN JOINTS DOES NOT EXCEED A SPACING OF 3 X WALL HEIGHT (3S MAXIMUM), WHERE BEAMS OR LINTELS BEAR AT CMU CONTROL JOINTS, OFFSET AND LAP THE VERTICAL REINFORCING AS INDICATED.
- 8.14. THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION (SEE "GENERAL STRUCTURAL NOTES").
- 8.15. ALL MASONRY WALLS CELLS OR CAVITIES INDICATED AS REINFORCED SHALL BE GROUTED FOR THE FULL HEIGHT OF THE WALL, UNLESS SPECIFICALLY NOTED OTHERWISE, ON THE DRAWINGS. UN-REINFORCED WALLS INDICATED AS GROUTED SHALL BE GROUTED FULL HEIGHT. UNLESS SPECIFICALLY NOTED OTHERWISE.
- 8.16. ALL MASONRY CELLS OR CAVITIES BELOW GRADE SHALL BE GROUTED SOLID.
- 8.17. MASONRY CONTRACTOR SHALL PROVIDE FOR AND COORDINATE WITH OTHER TRADES FOR PLACEMENT OF ALL ITEMS TO BE EMBEDDED OF BUILT INTO THE MASONRY.

9.0 WOOD

- 9.1. ALL WOOD FRAMING SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALLOWABLE STRESSES SHALL BE IN ACCORDANCE TO NDS.
- 9.2. ALL WOOD FRAMING SHALL BE NO. 2 GRADE SOUTHERN PINE OR BETTER.
- 9.3. ALL FRAMING EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS, WHERE POSSIBLE. ALL CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH (2) COATS OF COPPER NAPHTHATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION PER AWWA STD. M4.
- 9.4. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS. THE LENGTH OF SPLIT ON WIDE FACE OF 2 INCH NOMINAL LOADBEARING FRAMING SHALL BE LIMITED TO LESS THAN 50% OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3 INCH NOMINAL AND THICKER LUMBER SHALL BE LIMITED TO 50% OF THE NARROW FACE DIMENSION.
- 9.5. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS WHICH RUN PARALLEL WITH JOISTS AND UNDER ALL CONCENTRATED LOADS FROM FRAMING ABOVE.
- 9.6. PROVIDE TWO-PLY HEADER BEAMS OF THE SAME DEPTH AS JOISTS OR RAFTERS INDICATED ON PLAN AROUND ALL OPENINGS IN THE PLYWOOD DECK UNLESS NOTED OTHERWISE.
- 9.7. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4 INCH THICK UNLESS NOTED OTHERWISE.
- 9.8. BOLTS CONNECTING WOOD MEMBERS SHALL BE ASTM A-307 AND BE 3/4 INCH DIAMETER UNLESS NOTED OTHERWISE. PROVIDE WASHERS FOR ALL BOLT HEADS AND NUTS IN CONTACT WITH WOOD SURFACES.
- 9.9. BOLT HOLES SHALL BE CENTERED AND DRILL NO MORE THAN 1/16 INCH LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT SHOULD NOT CRUSH WOOD UNDER WASHERS.
- 9.10. PREFABRICATED "MICRO-LAM" LUMBER HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY "TRUIS JOIST MACMILLIAN CORP" OR APPROVED EQUAL. MICRO-LAM MATERIAL SHALL BE 2.0E, SOUTHERN PINE. DO NOT CUT OR NOTCH MICRO-LAM MATERIAL WITHOUT MANUFACTURER'S APPROVAL.
- 9.11. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER MANUFACTURER'S REQUIREMENTS. ALL STEEL SHALL HAVE A MINIMUM THICKNESS OF 0.04 INCHES PER ASTM A 446, GRADE A AND BE GALVANIZED (G60).
- 9.12. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF N.C.B.C. 2012, SECTION 2308.3.
- 9.13. ALL PLATES, ANCHORS, NAILS, BOTLS, NUTS, WASHERS AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED.



NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION

2020 YONKERS ROAD  
4216 MSC  
RALEIGH, NC 27699-4216

TEL (919) 716-3400  
FAX (919) 716-3978



10/17/2025 IFC SUBMISSION

NO.	DATE	REVISION
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DRAWN BY: LAM

DESIGNED BY: ASD

CHECKED BY: ASD

CADD DWG NO: S-101

JOB ORDER NO: 4540

PLOT DATE: 10/17/2025

GASTON CORRECTIONAL CENTER

520 JUSTICE COURT, DALLAS, NC 28034

GASTON C.C. MODULAR MEDICAL OFFICE



226 WESTINGHOUSE BLVD | SUITE 303 CHARLOTTE, NC 28273 704.900.8706  
www.structuralcapacity.com mail@structuralcapacity.com  
NC FIRM NUMBER: C-3406

1/S-101

GENERAL NOTES  
SCALE: NO SCALE

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5

S-101



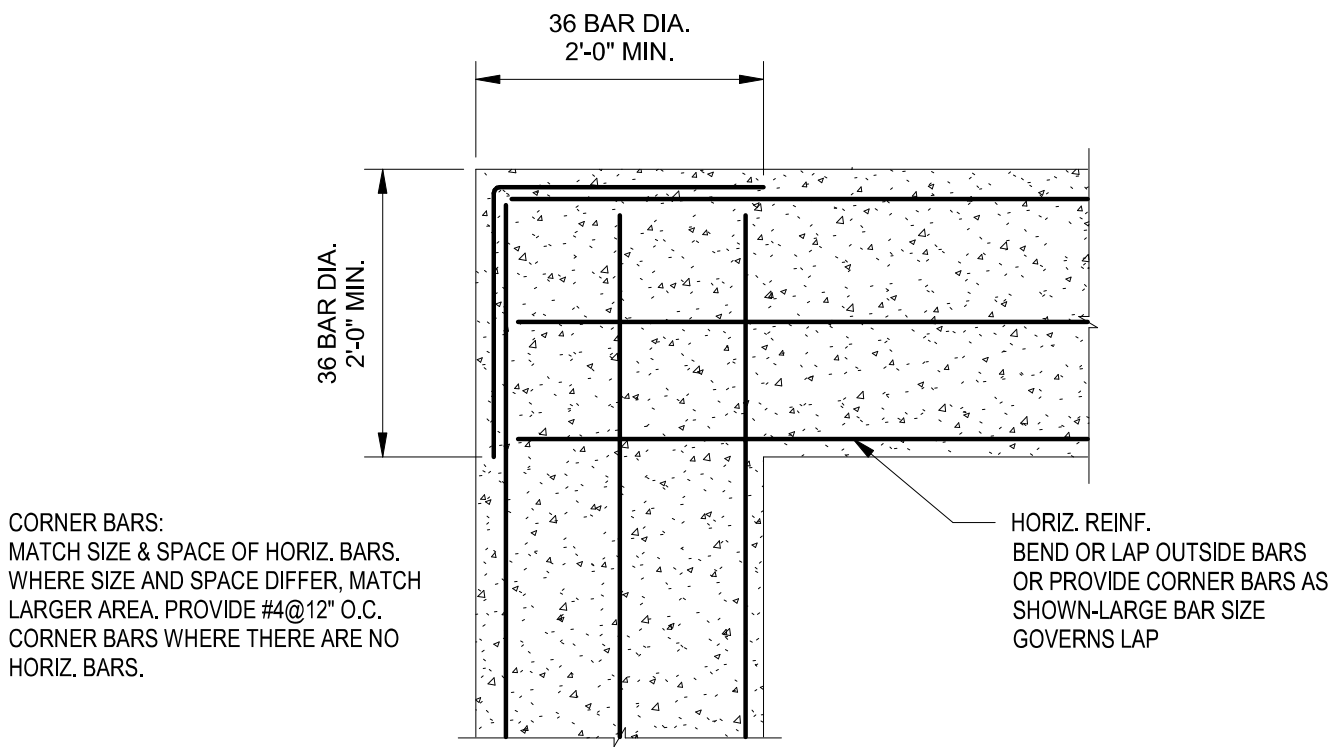
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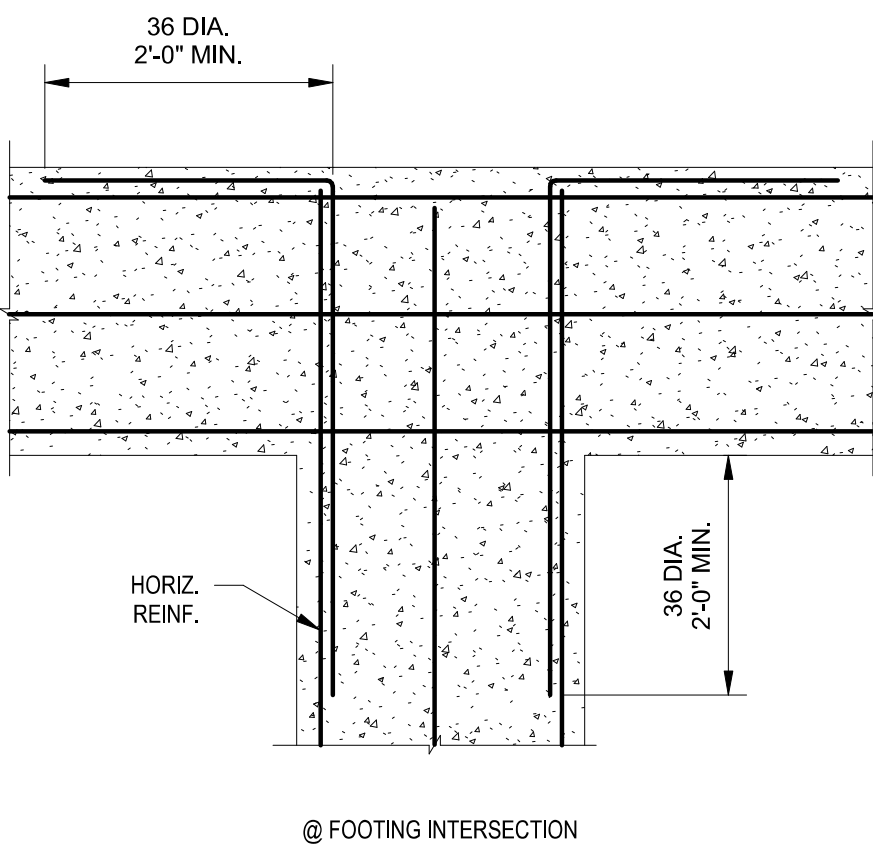
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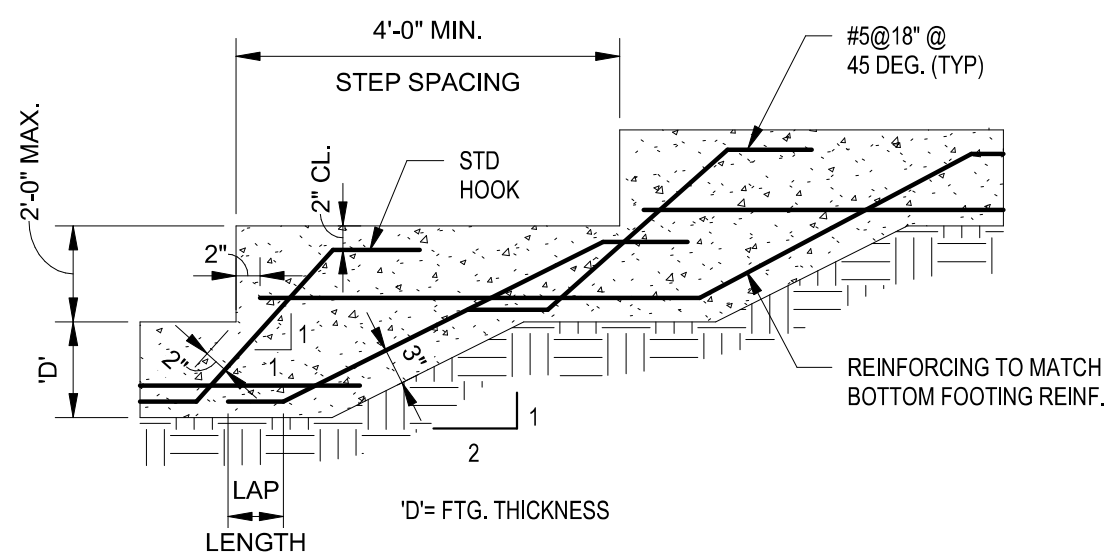
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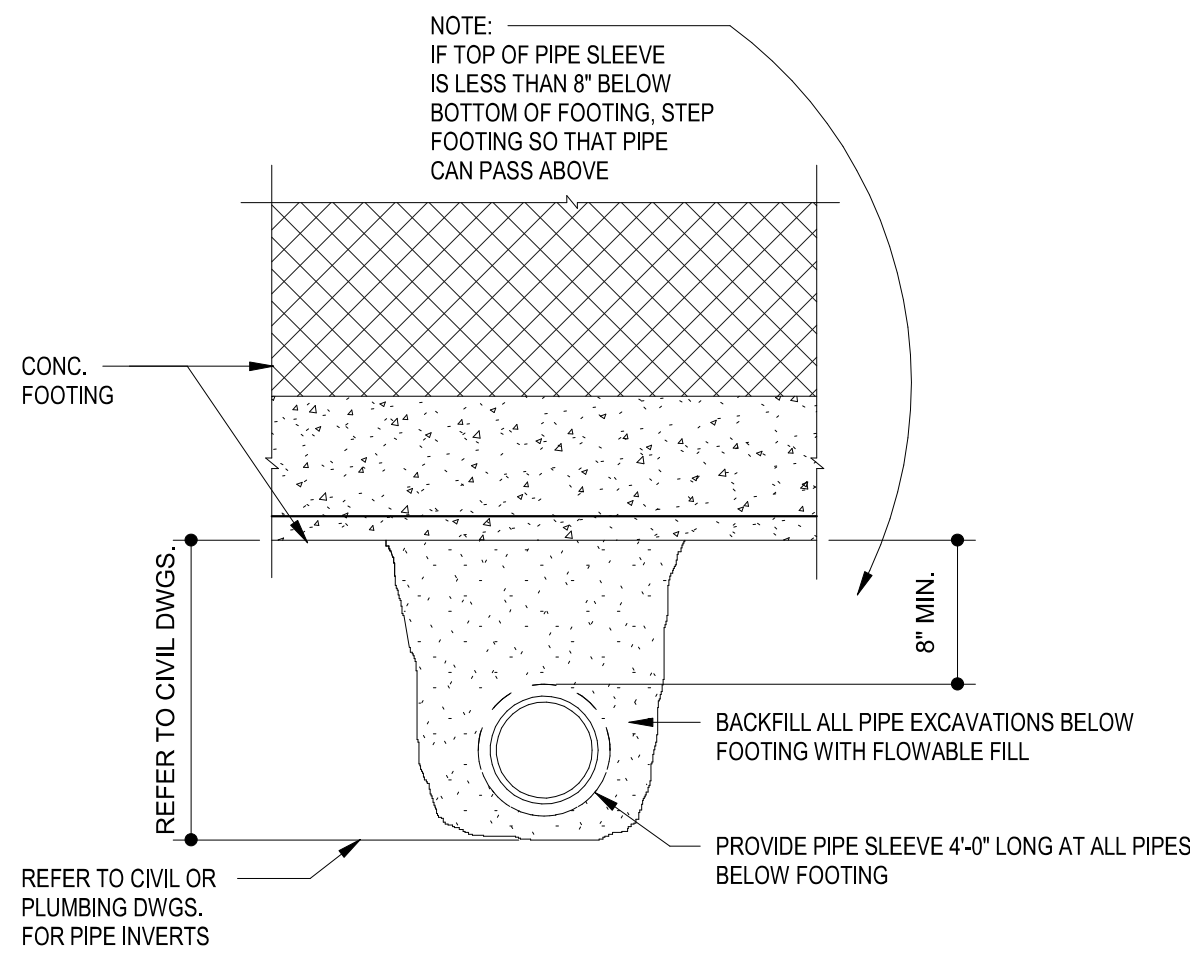
1/S-102 TYP. CORNER REINFORCING  
SCALE: 3/4" = 1'-0"



2/S-102 TYP. FTG INTERSECTION REINF.  
SCALE: 3/4" = 1'-0"



3/S-102 TYP. STEPPED FOOTING  
SCALE: 3/4" = 1'-0"



4/S-102 TYP. SECTION AT PIPE AT UNDER FTG  
SCALE: 3/4" = 1'-0"



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CORRECTION  
2020 YONKERS ROAD  
4216 MSC  
RALEIGH, NC 27699-4216  
TEL (919) 716-3400  
FAX (919) 716-3978



10/17/2025 IFC SUBMISSION

NO.	DATE	REVISION
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DRAWN BY: LAM  
DESIGNED BY: ASD  
CHECKED BY: ASD  
CADD DWG NO: S-102  
JOB ORDER NO: 4540  
PLOT DATE: 10/17/2025

GASTON  
CORRECTIONAL  
CENTER  
520 JUSTICE COURT, DALLAS, NC  
28034

GASTON C.C. MODULAR  
MEDICAL OFFICE

SCO ID # 24-27820-01A

TYPICAL SECTIONS &  
DETAILS

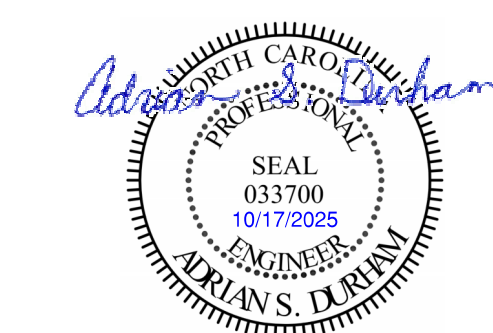




NORTH  
CAROLINA  
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OF ADULT  
CORRECTION

2020 YONKERS ROAD  
4216 MSC  
RALEIGH, NC 27699-4216

TEL (919) 716-3400  
FAX (919) 716-3978



10/17/2025 IFC SUBMISSION

NO	DATE	REVISION
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DRAWN BY: LAM

DESIGNED BY: ASD

CHECKED BY: ASD

CADD DWG NO: S-201

JOB ORDER NO: 4540

PLOT DATE: 10/17/2025

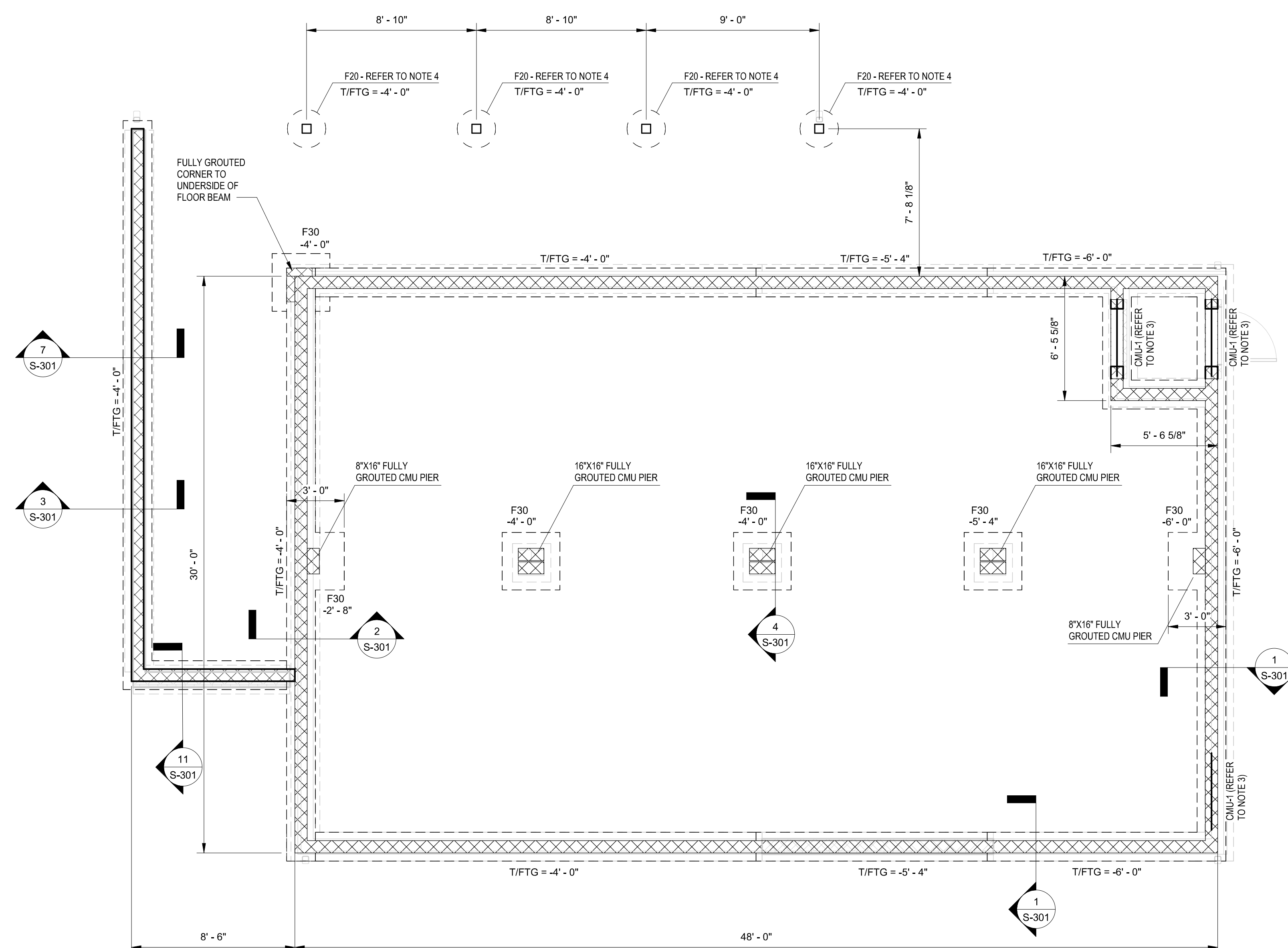
GASTON  
CORRECTIONAL  
CENTER

520 JUSTICE COURT, DALLAS, NC  
28034

**GASTON C.C. MODULAR  
MEDICAL OFFICE**

SCO ID # 24-27820-01A

## FOUNDATION PLAN



1 FOUNDATION PLAN  
1/4" = 1'-0"

PLAN NOTES:

1. FOR GENERAL NOTES - REFER TO S101
2. GC TO FIELD VERIFY FOOTING ELEVATION WITH EXISTING SITE CONDITIONS
3. CMU-1: 8"X8" CMU SOLID GROUTED BOND BEAM W/ (1) #4 CONT.
4. F20 - 2'-0" DIA.X2'-0" DEEP CONCRETE FOOTING.

FOOTING SCHEDULE					
Mark	Length	Width	Depth	Reinf.	Remarks
E30	3' - 0"	3' - 0"	1' - 0"	(4) #4 FW BOTT	-

**Structural Capacity, PC**  
STRUCTURAL CONSULTING GROUP

226 WESTINGHOUSE BLVD | SUITE 303    CHARLOTTE, NC 28273    704.981.1100  
www.structuralcapacity.com    mail@structuralcapacity.com  
NC FIRM NUMBER: C-3406

S-201

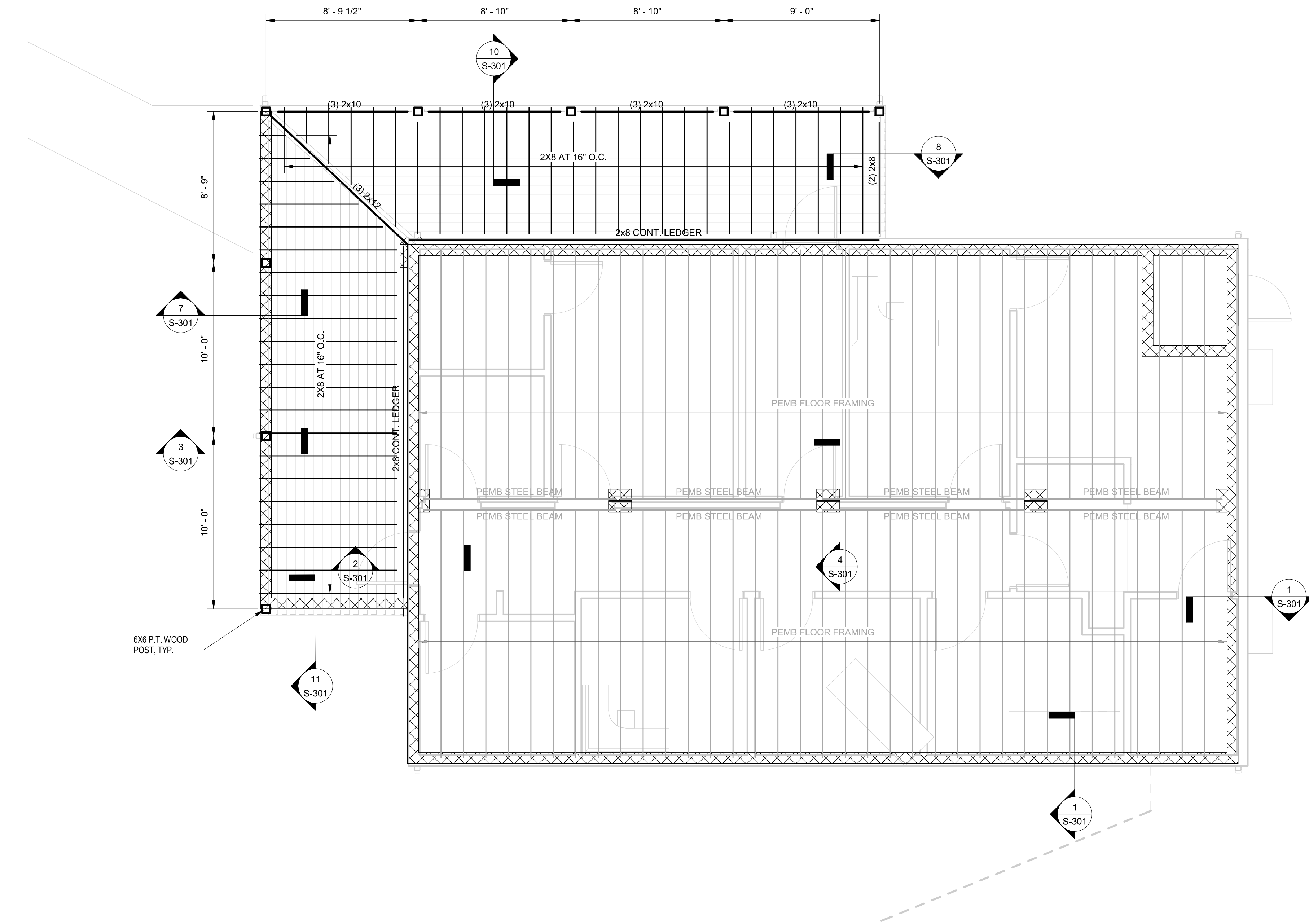


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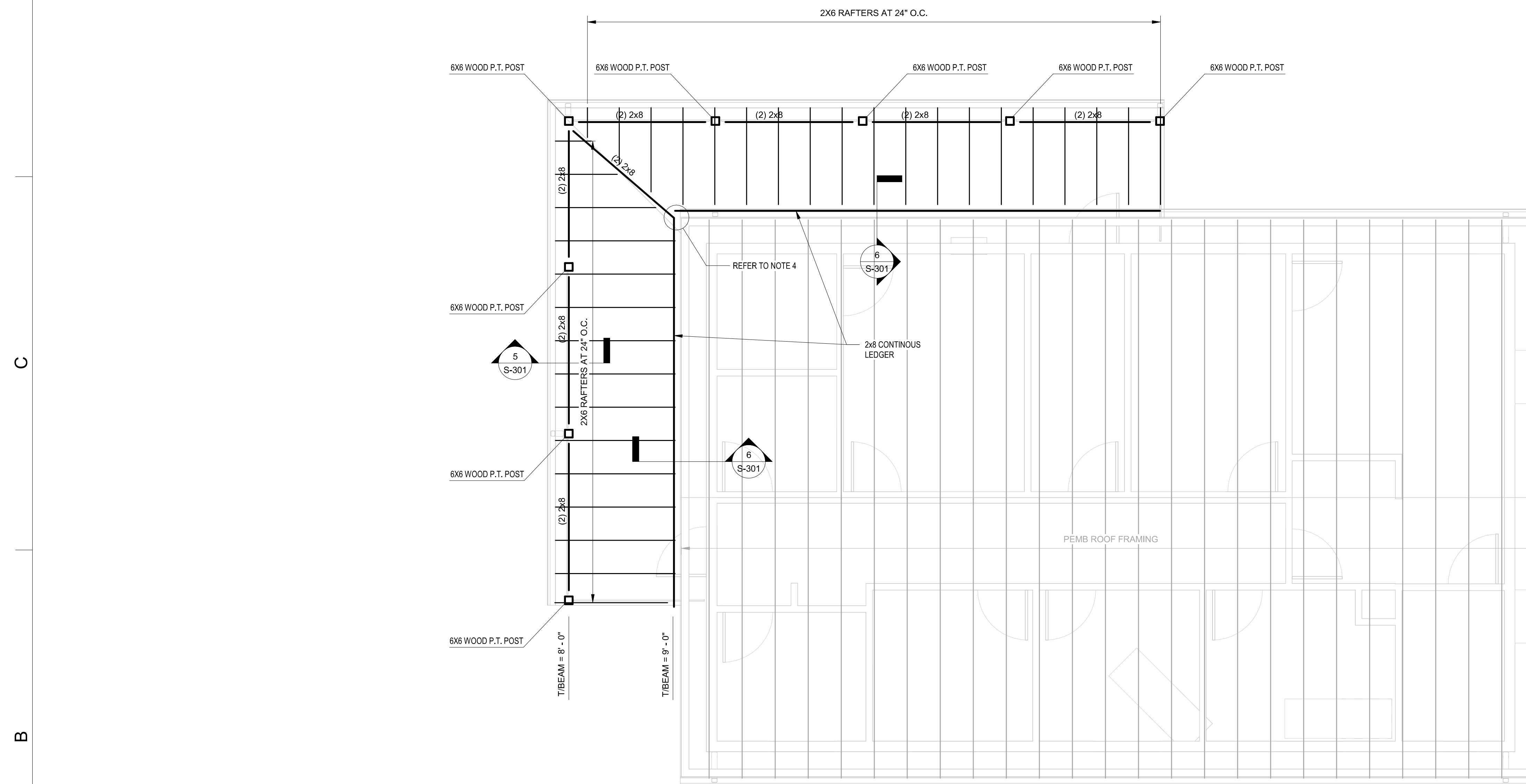
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1 1ST FLOOR FRAMING  
1/4" = 1'-0"

- PLAN NOTES:
1. FOR GENERAL NOTES REFER TO S-101.
  2. ALL FLOOR MEMBERS TO 2X8 FLOOR JOISTS SPACED AT 16" O.C. (MAX), UNO.
  3. SIMPSON LUS28-3 HANGER - BASIS OF DESIGN MODEL (ALTERNATIVE HANGER MUST MEET OR EXCEED BASIS OF DESIGN SPECIFICATIONS).





1 ROOF FRAMING PLAN  
1/4" = 1'-0"

PLAN NOTES:

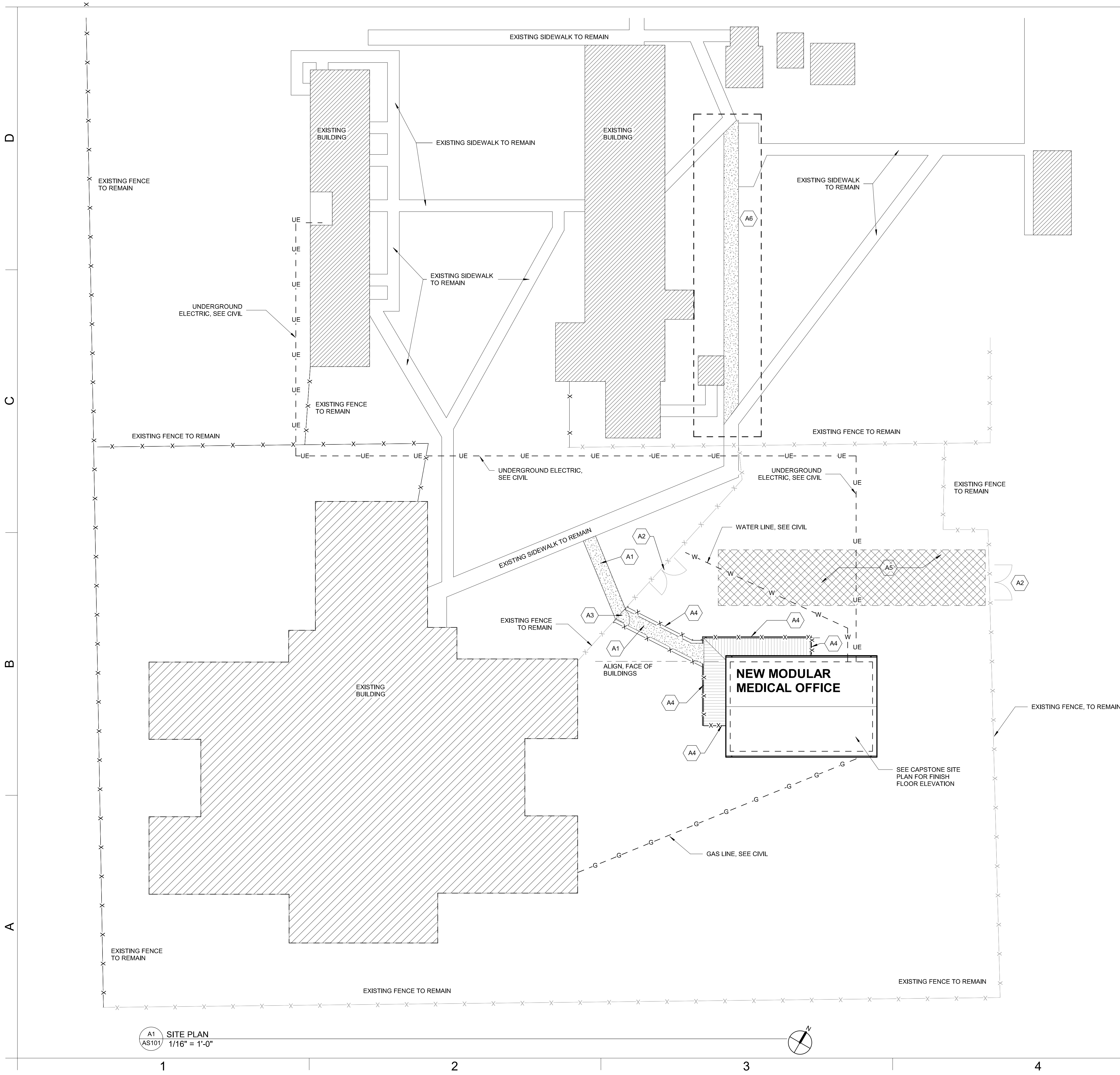
1. FOR GENERAL NOTES - REFER TO S101
2. ALL ROOF FRAMING 2X6 RAFTERS AT 24" O.C., UNO
3. PROVIDE (1) RAFTER HURRICANE CLIP AT EACH RAFTER BEARING POINT.
4. SIMPSON LSSR210-2Z HANGER - BASIS OF DESIGN MODEL (ALTERNATIVE HANGER MUST MEET OR EXCEED BASIS OF DESIGN SPECIFICATIONS),







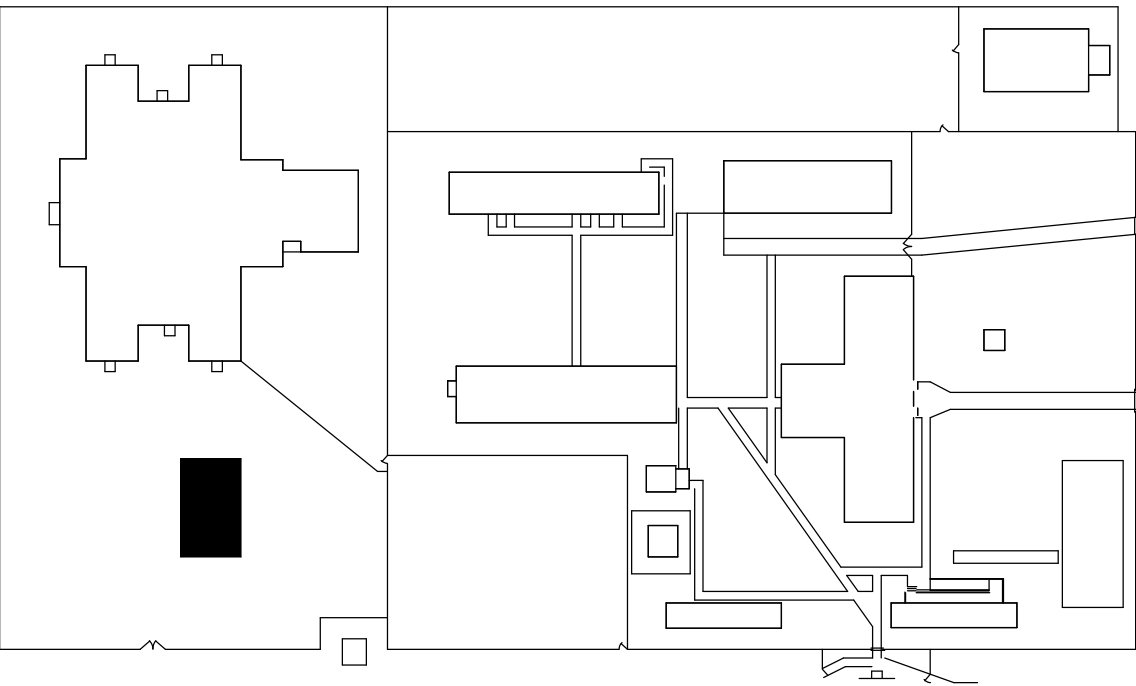
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GENERAL NOTES

1. SEE SHEET \_\_\_\_\_ FOR CIVIL INFORMATION.
2. PROJECT WILL PROGRESS AS A DELEGATED, SEE MODULAR CONSTRUCTION NOTES & MODULAR BUILDING SHOP DRAWING APPROVAL PROCESS NOTES ON G-001.
3. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON ARCHITECTURAL PLANS WITH ELECTRICAL, MECHANICAL, STRUCTURAL & CIVIL.
4. CONTRACTOR SHALL COORDINATE CONSTRUCTION DOCUMENTS AND APPROVED SUBMITTALS. IF ANY INCONSISTENCIES OR ERRORS ARE FOUND, CONTRACTOR SHALL INFORM DESIGNER IN WRITING.
5. CONTRACTOR SHALL INFORM THE DESIGN IN WRITING IF ANYTHING SHOWN IN THE CONTRACT DOCUMENTS IS INCONSISTENT TO WHAT IS FOUND ON SITE.

SHEET KEYNOTES - AS101	
Number	Description
A1	NEW SIDEWALK - SEE SITE PLAN BY CAPSTONE
A2	EXISTING GATE
A3	NEW 5'-0" GATE
A4	NEW CHAIN LINK FENCE
A5	NEW GRAVEL TOPPING, SEE CIVIL
A6	ADDITIVE ALTERNATE NO. 1: NEW SIDEWALK. SEE CIVIL FOR EXTENT OF SIDEWALK

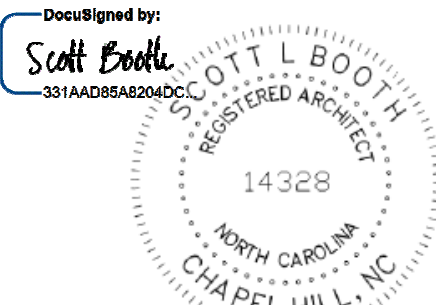


KEY PLAN



NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION

2020 YONKERS ROAD  
4216 MSC  
RALEIGH, NC 27699-4216  
TEL (919) 716-3400  
FAX (919) 716-3978



Oct-27-2025

10/17/2025 IFC SUBMISSION

NO.	DATE	REVISION
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DRAWN BY: LSB  
DESIGNED BY: Delegated Design  
CHECKED BY: L. Scott Booth  
CADD DWG NO: AS101  
JOB ORDER NO: 4540  
PLOT DATE: 10/17/25

GASTON CORRECTIONAL CENTER

520 JUSTICE COURT, DALLAS, NC 28034

GASTON C.C. MODULAR MEDICAL OFFICE

SCO ID # 24-27820-01A

ARCHITECTURAL SITE PLAN

AS101