

INFORMAL INVITATION TO BID REQUEST 24-25-44

SITE & FOUNDATION WORK FOR CLASS A BURN FACILITY FIRE DEPARTMENT CITY OF GREENVILLE NORTH CAROLINA

MANDATORY

PRE-BID MEETING: THURSDAY, MAY 15, 2025 @ 2:00 PM

POLICE / FIRE RESCUE

500 S. GREENE ST., GREENVILLE, NC

BIDS DUE DATE: THURSDAY, MAY 29, 2025 @ 2:00 PM

PROJECT MANAGEMENT

2000 CEDAR LANE, GREENVILLE, NC 27834

CONTACT PERSONS:

QUESTIONS REGARDING THE BID PACKAGE:

Wanda House Financial Services Manager Telephone: (252) 329-4862

Email: whouse@greenvillenc.gov

QUESTIONS REGARDING THE SPECIFICATIONS:

Mr. Ross Peterson
Project Management
Telephone: (252) 329-4570
Email: rpeterson@greenvillenc.gov

CITY OF GREENVILLE ADVERTISEMENT FOR PROPOSALS

Site & Foundation Work for Class A Burn Facility 2910 E. Second St., Greenville, NC

The City of Greenville, NC is requesting bids for the "Site and Foundation Work for Class A Burn Facility" located at the 2910 E. Second St., Greenville, NC 27834. The scope of work shall include but is not limited to the removal of current earth, forming and pouring foundation footers, providing 57 stone and crusher run. An add alternate is being requested to add a fire hydrant by extending current fire hydrant to location of burn facility.

This is a turn-key project.

A mandatory pre-bid meeting and site visit will be held at the Police/Fire Rescue located at 500 S. Greene St., Greenville, NC on Thursday, May 15, 2025 @ 2:00 PM.

The person, firm or corporation making a proposal shall submit a bid to Ross Peterson, Project Management, on or before the hour and day of Thursday, May 29, 2025 by 2:00 pm. The preferred method of delivery of the bid is by email to rpeterson@greenvillenc.gov The bid may also be mailed or hand delivered to the Jaycee Park Administrative office located at 2000 Cedar Lane, Greenville, N.C., 27834 and must be received prior to the submittal deadline time and date. Any method of submitting must state and shall have the words Bid Enclosed, Ross Peterson along with the company name in the subject line or on the outside of the envelope.

Bids received after the deadline will not be opened. All bids will be marked with the date and time they are received by reception staff. Bids will <u>NOT</u> be opened and read aloud. Bids will be open and reviewed by city staff. A bid tabulation will be available on request once the contract is awarded to the successful bidder.

The bidder shall include the required responses and supply all the information as indicated on Attachment A, B, C, D, and E. The prices inserted shall be net and shall be the full cost including all factors whatsoever. Any bids not submitted on such forms provided will be considered non-responsive.

No bid may be changed or withdrawn after the time of the opening. Any modifications or withdrawals requested before this time shall be acceptable only when such a request in writing is made to *Ross Peterson*, *Project Management*.

The City of Greenville reserves the right to reject any or all bids, waive any informality and award contracts that appear to be in its best interest. The right is reserved to hold any or all proposals for a period of sixty (60) days from the bid opening thereof.

The scope of work attached represents the minimum specification or description of work to be purchased or contracted. These requirements are not intended to prevent fair responses or to eliminate competition, but they are intended for the protection of each and every proposer to ensure, if possible, that all bids submitted shall be upon a fair and comparable basis.

All work shall be FOB, Greenville, N.C.

From the date of this advertisement until the date of opening the proposals, the plans and specifications of the proposed work and/or a complete description of the apparatus, supplies, materials or equipment are and will continue to be on file in the office of the City of Greenville Purchasing Manager, 201 W. 5th Street, Greenville, NC 27834, during regular business hours, and available to prospective bidders. Inquiries should be directed to the Purchasing Manager at the above address --- Telephone (252) 329-4862. Minority/Women owned business are encouraged to submit proposals.

INSTRUCTIONS TO BIDDERS

Proposal to Provide Site & Foundation Work for Class A Burn Facility 2910 E. Second St., Greenville, NC

- 1. Contractor is to provide verification to the City that the company's employees are covered under worker's compensation insurance coverage.
- 2. All permits can be obtained through the City at no cost to the Contractor.
- 3. It is expressly understood by the contractor offering a proposal after a written notice of award by the City, a purchase order will be required to be executed and will serve together with this proposal, these instructions, scope of work, and any detailed specifications as the entire form of contract between the parties except in cases where formal contracts are warranted.
- 4. Each Contractor submitting a proposal is affirming that no official or employee of the City is directly or indirectly interested in this proposal for any reason of personal gain.
- 5. Sales taxes may be listed on the proposal, but as a separate item. No charge will be allowed for Federal Excise and Transportation Tax from which the City is exempt.
- 6. Questions regarding any procedure for submission of a proposal for the Site & Foundation Work for Class A Burn Facility shall be directed by email to Ross Peterson, Project Management, @ rpeterson@greenvillenc.gov. Questions shall be submitted by 5:00 PM, Tuesday, May 20, 2025. Answers will be provided in an addendum and email to those that signed in at the pre-bid by 5:00 PM, Thursday, May 22, 2025. If an addendum is provided it must be indicated by initialing on bid form. Addendums will be available on city web page.
- 7. If the Contractor is unable to provide a proposal for any reason, please send an email with an explanation to rpeterson@greenvillenc.gov.
- 8. By submitting a proposal for Site & Foundation Work for Class A Burn Facility, the Contractor attests that it is in compliance with all items listed in the bid/proposal instructions. Furthermore, the Contractor attests that the City of Greenville accepts no responsibility for any injuries to the firm's employees, while on City property performing their duties.
- 9. Contractor shall comply with all local, state, and federal laws, as well as safety/regulatory requirements and ordinances associated with the work within this contract
- 10. It is expected that work would begin and schedule once all material has been delivered and confirmed.
- 11. No work will be performed at any time without proper supervision. Names and experience of supervisors shall be provided.
- 12. Parking and staging areas for equipment and materials can be arranged on site during the preconstruction meeting conducted prior to the work starting.
- 13. Work on this project will have to be performed so as to not disrupt Greenwood Cemetery daily operations.
- 14. All work must be performed Monday Friday from 7:00 AM to 5:00 PM. Weekends and other hours will have to be approved in advance.

- 15. The Contractor shall accompany a designated representative(s) of the City on inspections of work at any time during the contract period. The City reserves the right to make determinations as to whether service is performed satisfactorily. Deficiencies in work performance must be corrected immediately.
- 16. Deficiencies in work performance must be corrected immediately. The City reserves the right to add or delete similar items/services specified in the proposal as requirements change during the period of the contract. The City of Greenville and the Contractor will mutually agree upon prices for items/services to be added or deleted from contract. A contract amendment will be issued for each addition or deletion.
- 17. Contractor shall not engage subcontractors to perform the Services without the City of Greenville's prior written consent by the Project Manager or designee. If any part of this work agreement is sublet, the subcontractor shall be required to meet all insurance requirements set forth in the Agreement. The parties stipulate that the Company will maintain each type of insurance set forth in the Agreement at a coverage equal to the amount set forth in the Agreement at a coverage equal to the amount set forth for each type of insurance. However, nothing contained herein shall relieve the Company from meeting all insurance requirements or otherwise being responsible for the subcontractor.
- 18. Contractor is responsible for cleaning the worksite daily prior to the end of day.
- 19. New vendors must register online at the City of Greenville Vendor Self Service portal: https://cityofgreenvillenc.munisselfservice.com/vss.
- 20. This does not have to be completed to submit a bid, however, the bidder must be a registered vendor prior to the award of the contract.

SPECIFICATIONS

1.0 SCOPE:

The scope of work shall include, but is not limited to:

- 1.1 The contractor will have 30 consecutive working days to complete the project.
- 1.2 The Contractor shall provide all labor, equipment, materials and insurance necessary for site and foundation work needed to meet the specification of drawings provided. See Exhibit "C".
- 1.3 The Contractor shall provide all labor, equipment, materials and insurance necessary for add alternate of adding a fire hydrant by extending from current fire hydrant to meet the specification of drawings provided. See Exhibit "C".
- 1.4 Third party inspections/testing will be coordinated by owner and contractor. Owner will pay for third party inspections/testing.
- 1.5 Owner with GUC will be providing site lighting and power. Coordination between contractor, owner, and GUC will be a must during construction.
- 1.6 Warranty shall meet industry and manufacturer standards for equipment and labor. A minimal (1) year labor shall be provided.
- 1.7 All work shall be done by certified/licensed contractors.
- 1.8 Obtain all permits from the City of Greenville at no cost.
- 1.9 Cleanup and removal of all debris at work site.
- 1.10 After completion, the owner and contractor will perform a walk through to determine punch list items. Any punch list items shall be addressed within a week.
- 1.11 Provide close out documents to include warranty and manuals.

2.0 PAYMENT AND BID:

- 2.1 Bidders will comply with all local, state, and federal laws and ordinances governing said work including the Occupational Safety and Health Act of 1970.
- 2.2 By submitting a proposal, the firm is attesting that they are an Equal Opportunity Employer.
- 2.3 The City of Greenville has adopted an Affirmative Action Program. Firms submitting a proposal are attesting that they also have taken affirmative action to ensure equality of opportunity in all aspects of employment.
- 2.4 Minority and/or Women Business Enterprise (MWBE) Program
 It is the policy of the City of Greenville to provide minorities and women equal opportunity for participating in all aspects of the City's contracting and procurement programs, including but not limited to, construction projects, supplies and materials purchases, and professional and personal

service contracts. In accordance with this policy, the City has adopted a Minority and Women Business Enterprise (M/WBE) Plan and subsequent program, outlining verifiable goals.

The City has established a 10% Minority Business Enterprise (MBE) and 6% Women Business Enterprise (WBE) goal for the participation of MWBE firms in supplying goods and services for the completion of this project. All firms submitting bids agree to utilize minority and womenowned firms whenever possible.

Questions regarding the City's M/WBE Program should be directed to Wanda House in the M/WBE Office at (252) 329-4862.

- 2.5 The City of Greenville reserves the right to reject any and all bids, to waive any informalities and to accept the bid if seems most advantages to the City. Any bid submitted will be binding for sixty (60) days after the date of the bid opening.
- 2.6 Equal Employment Opportunity Clause

The City has adopted an Equal Employment Opportunity Clause, which is incorporated into all specifications, purchase orders, and contracts, whereby a vendor agrees not to discriminate against any employee or applicant for employment on the basis of race, color, religion, sex, national origin or ancestry. By submitting qualifications and/or proposals, the firm is attesting that they are an Equal Opportunity Employer. Federal law (Rehabilitation Act and ADA) prohibits handicapped discrimination by all governmental units. By submitting a proposal, the vendor is attesting to its policy of nondiscrimination regarding the handicapped.

2.7 Iran Divestment Act Certification:

The CONTRACTOR hereby certifies that, it is not on the Iran Final Divestment List created by the North Carolina State Treasurer pursuant to N.C.G.S. 147-86.58. The CONTRACTOR shall not utilize in the performance of the Agreement any subcontractor that is identified on the Iran Final Divestment List.

2.8 E-Verify Compliance:

The CONTRACTOR shall comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statues. Further if the CONTRACTOR utilizes a subcontractor, the CONTRACTOR shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statues. The CONTRACTOR represents that the CONTRACTOR and its subcontractors are in compliance with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes.

2.9 TITLE VI NONDISCRIMINATION NOTIFICATION

The City of Greenville, North Carolina in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 US.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all respondents that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit proposals in response to this advertisement and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award. See EXHIBIT "B"

- 2.10 All new vendors, including subcontractors/consultants, must register with the City of Greenville's online portal *prior* to the rendering of goods or services.
- 2.11 Registration as a vendor with the City of Greenville is the responsibility of prime or subcontractor/consultant, and requires the prospective new vendor to submit a W-9, and complete

the registration through the City's vendor portal at the following web address: https://cityofgreenvillenc.munisselfservice.com/vss

2.12 The contractor will develop a lump sum bid; that will include, but is not limited to all work, equipment, parts, and labor specified herein.

3.0 WORKERS COMPENSATION AND INSURANCE:

- 3.1 The contractor must maintain during the life of this contract, Worker's Compensation Insurance for all employees working at the project site under this contract, or as otherwise required by North Carolina General Statutes.
- 3.2 The Consultant/Contractor agrees to purchase at its own expense insurance coverages to satisfy the following minimum requirements. Work under this contract shall not commence until all insurance required as listed has been obtained. Insurance required shall remain in effect through the life of this contract.
 - a. <u>Workers' Compensation Insurance:</u> No contractor or subcontractor may exclude executive officers. Workers Compensation must include all employees

Limits:

Workers Compensation: Statutory for the State of North Carolina.

Employers Liability: Bodily Injury by Accident \$1,000,000 each accident.

Bodily Injury by Disease \$1,000,000 policy limit

Bodily Injury by Disease \$1,000,000 policy limit. Bodily Injury by Disease \$1,000,000 each employee.

b. Commercial General Liability:

Limits:

Each Occurrence: \$1,000,000

Personal and Advertising Injury \$1,000,000

General Aggregate Limit \$2,000.000

Products and Completed Operations Aggregate \$2,000,000

The aggregate limit must apply per project. The form of coverage must be the ISO CG 00 01 policy as approved by the State of North Carolina Department of Insurance. If a form of coverage other than the CG 00 01 is used it must be approved by the City. Any endorsed exclusions or limitations from the standard policy must be clearly stated in writing and attached to the Certificate of Insurance. Completed Operations coverage must be maintained for the period of the applicable statute of limitations. Additionally, the Consultant/Contractor must be added as an Additional Insured to the Commercial General Liability policy.

c. Commercial Automobile Liability:

Limits: \$1,000,000 combined single limit.

d. Cancellation:

Each certificate of insurance shall bear the provision that the policy cannot be altered or canceled in less than ten (10) days after mailing written notice to the assured of such alteration or cancellation, sent registered mail.

e. Proof of Carriages:

I. The Consultant/Contractor shall provide the City with insurance industry standard ACCORD form Certificate(s) of Insurance on all policies of insurance and renewals thereof

in a form(s) acceptable to the City prior to the commencement of services. Said policies shall provide that the City be an additional named insured.

- II. The City shall be notified in writing of any reduction, cancellation, or substantial change of policy or policies at least thirty (30) days prior to the effective date of said action.
- III. All insurance policies shall be issued by responsible companies who are acceptable to the City and licensed and authorized to do business under the laws of North Carolina

3.3 **OTHER INSURANCE:**

The contractor shall furnish such additional insurance as may be required by the General Statues of North Carolina, including motor vehicle insurance in amounts not less than statutory limits.

3.4 The contractor shall furnish the owner with satisfactory proof of insurance required before written approval of such insurance is granted by the owner.

Executed contract documents, insurance certifications, invoices and other information requested, are to be sent to:

Ross Peterson, Project Management City of Greenville 2000 Cedar Lane Greenville, N.C. 27834

Email: rpeterson@greenvillenc.gov

3.4 **CANCELLATION:**

Each certificate of insurance shall bear the provision that the policy cannot be altered or canceled in less than ten (10) days after mailing written notice to the assured of such alteration or cancellation, sent registered mail.

DAMAGE TO CONTRACTORS PROPERTY: 4.0

- 4.1 The City of Greenville shall be under no obligation to replace or in any way compensate the contractor for fire, theft, vandalism or any other casualty, injury or damage to equipment or property belonging to the contractor while on City property.
- 4.2 The successful bidder agrees to indemnify or hold harmless the City of Greenville from and against any liability, loss, cost, damage suit, claim, or expense arising occurrence on the part of the successful bidder to include its officers, servants, agents or employees arising from its activities, operations, and performance of services while on City property and further agrees to release and discharge the City of Greenville and its Agents from all claims or liabilities arising from or caused by the successful bidder in fulfilling its obligations under this Agreement.
- 4.3 It is understood and agreed by the parties that the City of Greenville will assume no liability for damages, injury, or other loss to the successful bidder, its employees or property, tools or equipment, or to other persons or properties located on City facilities resulting from the successful bidder's activities and operations while performing those service enumerated herein. The successful bidder shall assume full and complete liability for any and all damages on City or private properties caused by or resulting from its activities, operations, and that of its employees, agents and officers.

- 5.1 Addendum: Any changes to the specifications will be issued as a written addendum. No oral statements, explanations, or commitments by whosoever shall be of any effect.
- 5.2 Amendment: The contract may be amended from time to time through written agreement by both parties.

Title VI of the Civil Rights Act of 1964 Nondiscrimination Provisions, Appendices A & E.

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

- 1) Compliance with Regulations: The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation (USDOT), as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
- (2) Nondiscrimination: The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, national origin, sex, age, creed (religion), low-income, limited English proficiency, or disability in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
- (3) Solicitations for Subcontractors, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Nondiscrimination on the grounds of race, color, or national origin.
- (4) Information and Reports: The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the USDOT to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the USDOT, as appropriate, and will set forth what efforts it has made to obtain the information.
- (5) Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Nondiscrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the USDOT may determine to be appropriate, including, but not limited to:
- (a) withholding payments to the contractor under the contract until the contractor complies; and/or
- (b) cancelling, terminating, or suspending a contract, in whole or in part.
- (6) Incorporation of Provisions: The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the USDOT may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.
- I. During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following nondiscrimination statutes and authorities; including but not limited to:

Pertinent Nondiscrimination Authorities

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);

- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100- 209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, subrecipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Nondiscrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq); Federal transit laws, specifically 49 U.S.C. § 5332 (prohibiting discrimination based on race, color, religion, national origin, sex (including gender identity), disability, age, employment, or business opportunity)



PROJECT MANAGEMENT

6.0 REFERENCE INFORMATION

All bidders must provide a list of three (3) client references of similar work. The reference information must include the company's name, a contact person's name with his or her title and their telephone number. Contractor must provide the information below with their bid sheet. Contractor must be experienced in projects of similar construction.

1.	Company name:		
	Contact person:		
	Title:	Phone No	
2.	Company name:		
	Contact person:		
	Title:	Phone No	
3.	Company name:		
	Contact person:		
	Title:	Phone No.	



PROJECT MANAGEMENT

7.0 CONTRACTOR INFORMATION

Contractor must provide the information below with the bid sheet.

CITY OF GREENVILLE NORTH CAROLINA PROSPECTIVE CONTRACTOR DATA FORM

Company Name:	apany Name:					
Address:						
Phone Number:	Mobile Phone Number:					
Email:	Business Fax Number:					
Гах ID#						
NC General Contractors License#						
Corporation or Partnership:						
Number of Years in Business:						



PROJECT MANAGEMENT

CITY OF GREENVILLE PROJECT MANAGEMETN DEPARTMENT REQUEST FOR BIDS

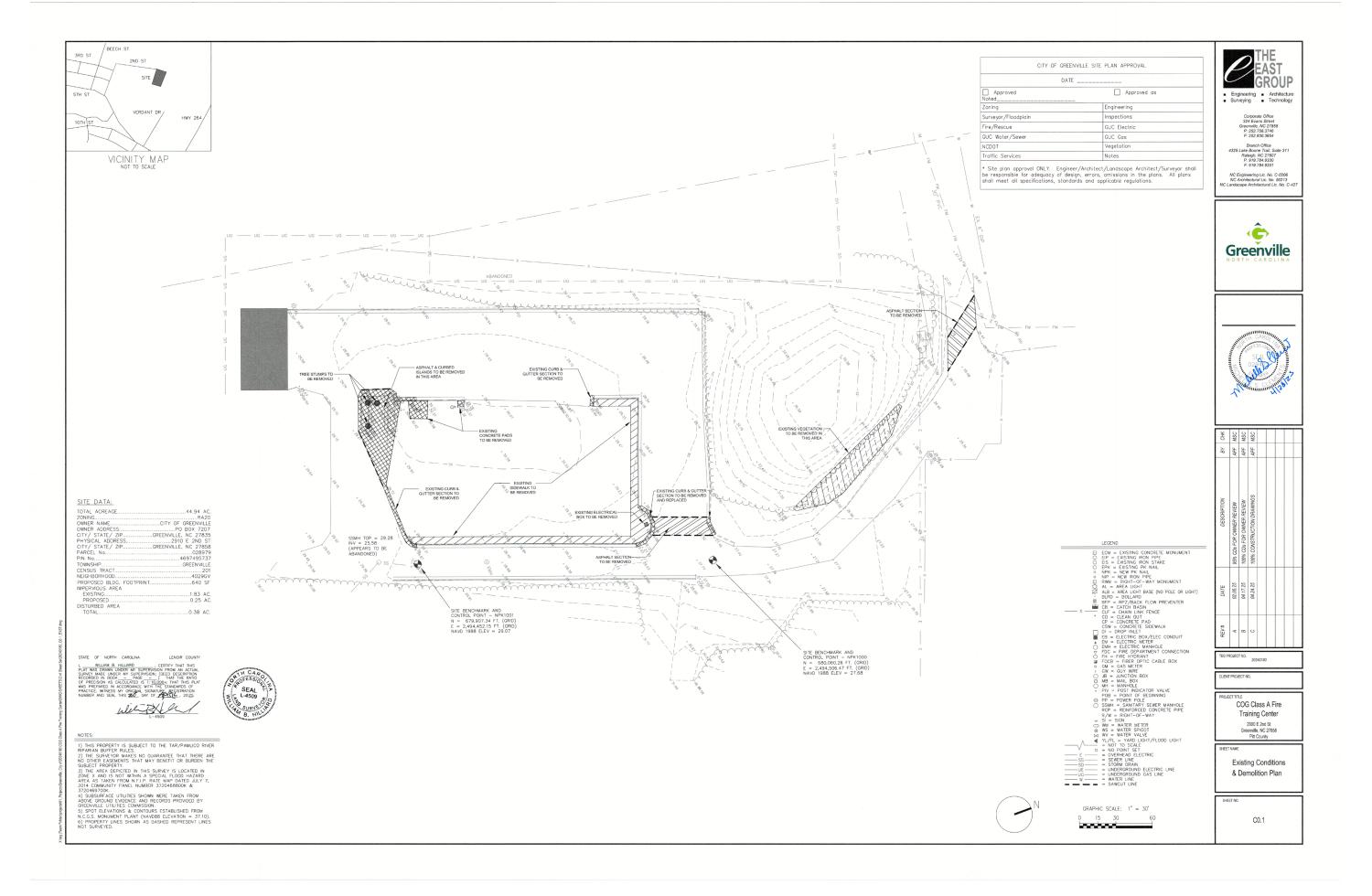
In compliance with the request for bids by the City of Greenville and subject to all conditions and specifications thereof, the undersigned offers and agrees to furnish all equipment, labor and work site clean-up as provided in the above-mentioned specifications.

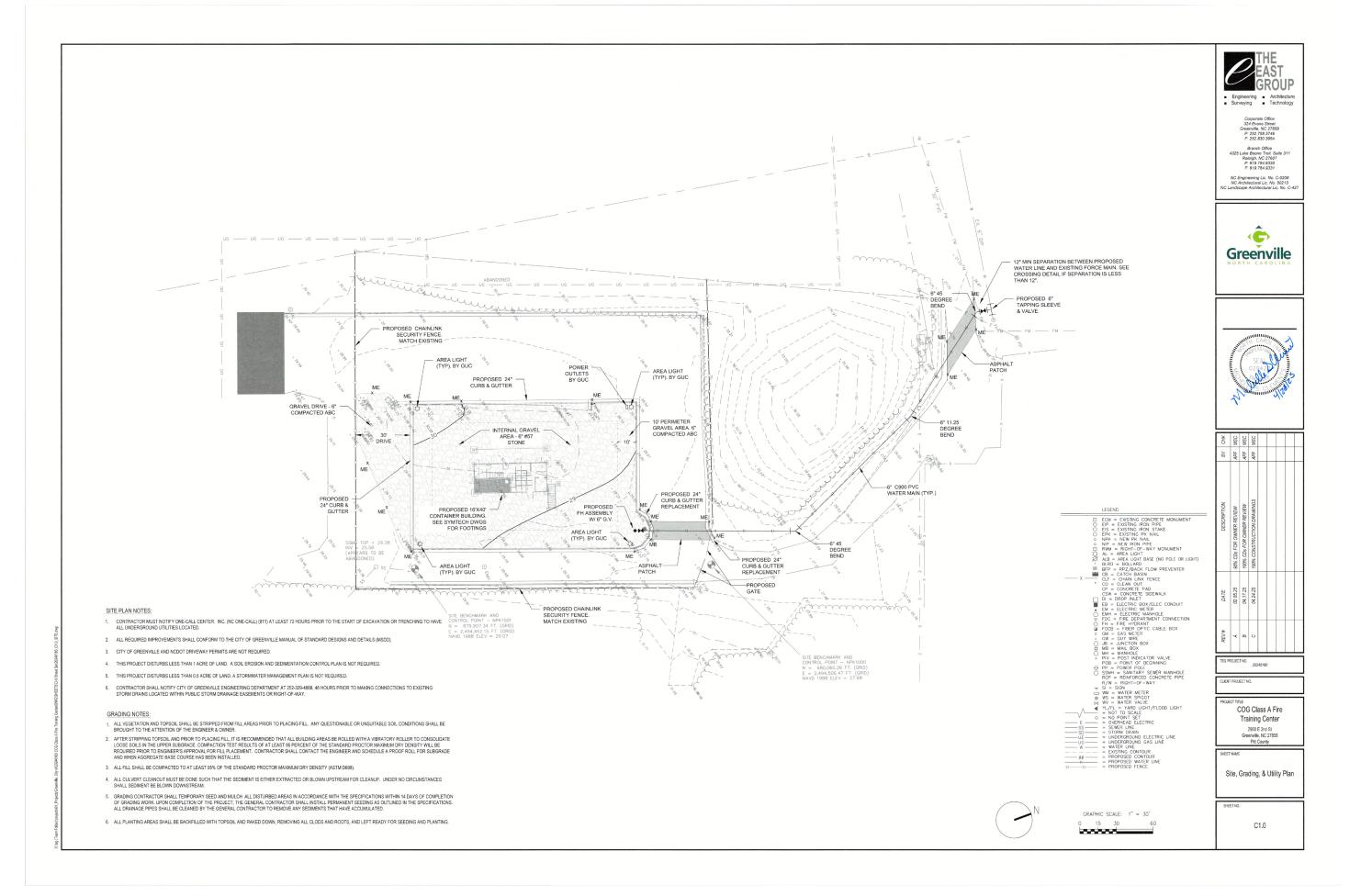
Description:		
Base Bid: Site & Foundat	ion Work for Class A Burn Facil	ity:
Base Sum	Tax	Lump Sum
\$	\$	<u> </u>
Add Alternate: Adding F	ire Hydrant;	
Alternate Sum	Tax	Lump Sum
\$	\$	<u> </u>
Total Lump Sum: Base an		
Bid reviewed, prepared an	nd submitted by-	
Company Name:		Addenda Received:
Signed:		
Print Name:		
Date		

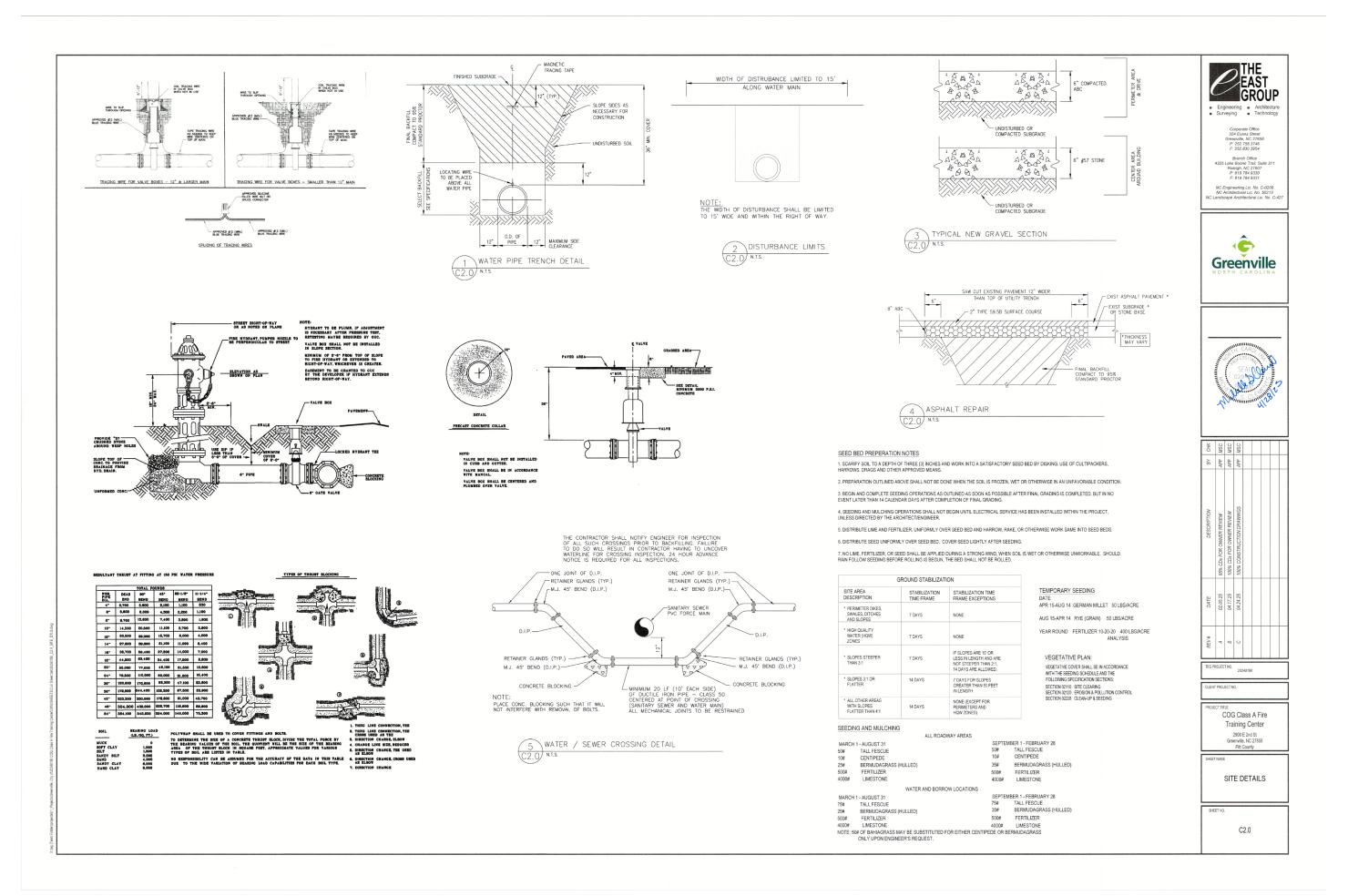
STATE OF NORTH CAROLINA
AFFIDAVIT
CITY OF GREENVILLE

I,(the individual attesting below), being duly authorized by and on behalf of
(the entity bidding on project hereinafter "Employer") after first being duly
sworn hereby swears or affirms as follows:
1. Employer understands that <u>E-Verify</u> is the federal E-Verify program operated by the United States Department
of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work
authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25(5).
2. Employer understands that Employers Must Use E-Verify. Each employer, after hiring an employee to work in
the United States, shall verify the work authorization of the employee through E-Verify in accordance with NCGS§64-
26(a).
3. <u>Employer</u> is a person, business entity, or other organization that transacts business in this State and that
employs 25 or more employees in this State. (mark Yes or No)
a. YES, or
b. NO
4. Employer's subcontractors comply with E-Verify, and if Employer is the winning bidder on this project Employer
will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer.
This day of, 20
Signature of Affiant Print or Type Name:
State of North Carolina City of Greenville
State of North Carolina City of Greenville Signed and sworn to (or affirmed) before me, this the day of, 20 My Commission Expires: Notary Public:
day of, 20
My Commission Expires:
Notary Public:

COG 1014769







FOUNDATION STRUCTURAL NOTES

COPIES OF PUBLICATIONS REFERENCED IN THESE GENERAL STRUCTURAL NOTES ARE AVAILABLE FOR REVIEW AT SOCHAEFER. CONTRACTORS UNFAMILIAR WITH THESE PUBLICATIONS MUST REVIEW THEM PRIOR TO CONSTRUCTION.

GOVERNING CODE

INTERNATIONAL BUILDING CODE, 2015 EDITION, WITH NORTH CAROLINA AMENDMENTS (REFERENCES ASCE7-10).

CONTAINER FOUNDATIONS: FOUNDATION REACTIONS AND LOADS ARE BASED ON THE SYMTECH DRAWINGS DATED 3/1/2024 AND THE FOLLOWING ASSUMPTIONS:

 ROOF LOADS.
 MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD RAIN LOAD, OR SNOW LOAD (P₁ OR P_m)
 STRUCTURE SELF-WEIGHT 50 PSF* (Per NFPA 1402) AS CALCULATED C. SUPERIMPOSED DEAD LOAD

*FLAT ROOF SNOW LOAD, Pr = 8.4 PSF AI ROOF SNOW LOAD, $F_F = 8.4 \, \text{PSF}$ GROUND SNOW, $P_g = 10 \, \text{PSF}$ SNOW LOAD IMPORTANCE FACTOR, $I_8 = 1.0 \, \text{SNOW}$ SNOW EXPOSURE FACTOR, $C_e = 1.0 \, \text{SNOW}$ LOAD THERMAL FACTOR, $C_e = 1.2 \, \text{MINIMUM}$ SNOW LOAD, $P_m = 10 \, \text{PSF}$

 FLOOR LOADS.
 A. STRUCTURE SELF-WEIGHT
 B. SUPERIMPOSED DEAD LOAD AS CALCULATED

4. WIND LOAD (PER ASCE 7):

C FLOOR LIVE LOAD

- A. BASIC DESIGN WIND SPEED, V= 113 MPH
 B. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} = 88 MPH
 C. RISK CATEGORY = II
 D. WIND EXPOSURE = C (ALL WIND DIRECTIONS)
 E. INTERNAL PRESSURE COEFFICIENT, GCpi= +0.18, -0.18

- 5 SEISMICLOAD
- A. SEISMC RISK CATEGORY

 3. SEISMC IMPORTANCE FACTOR | = 10

 5. MAPPED SPECTRAL RESPONSE ACCELERATION
 FACTOR AT SHORT PERIOD. S₀ = 0.095

 MAPPED SPECTRAL RESPONSE ACCELERATION
 FACTOR AT 1 SECOND PERIOD. S₁ = 0.048

 5. STEC 14.82

 5. DEC. 14.8 FACTOR AT 1 SECOND PERIOD, S; = SITE CLASS . = S. SITE CLASS . = F. DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIODS, So: 0. DESIGN SPECTRA RESPONSE ACCELERATION . = F. SEISMC OF SIGN CATEGORY . = I. SEISMC OF SIGN CATEGORY . = I. BASIC SEISMIC FORCE RESISTING SYSTEM . P. P. P. P. P. I = 0.076 = B = LIGHT FRAME WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS

RESPONSE MODIFICATION COEFFICIENT, R
SEISMIC RESPONSE COEFFICIENT, CS
DESIGN BASE SHEAR
ANALYSIS PROCEDURE USED

CONSTRUCTION AND SAFETY

- ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
- 2. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE. THE ENGINEER IS RESPONSIBLE FOR HISHER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
- EMBED PLATES, ANCHOR RODS AND FOUNDATION DOWELS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
- PRIOR TO COMMENCEMENT OF STEEL ERECTION, CONTRACTOR MUST PROVIDE THE STEEL ERECTOR WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS AND PEDESTALS HAS ATTAINED EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.

FOUNDATIONS

- FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY ECS SOUTHEAST, LLC, DATED DECEMBER 12, 2024. THE GEOTECHNICAL ENGINEER'S REPORT IS AVAILABLE UPON REQUEST.
- A. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOLINDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF BELOW STRIP FOOTINGS AND 3000 PSF BELOW ISOLATED COLUMN FOOTINGS.
- B. SLAB-ON-GRADE MODULUS OF SUBGRADE REACTION: 175 PCI
- C. THE GEOTECHNICAL REPORT INDICATES THAT UNDERCUTTING MAY BE REQUIRED AT SOME FOOTING LOCATIONS.
- 2. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET ANDIOR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.
- FILL MATERIALS: ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER, INCLUDING THE SUITABILITY OF ALL EXCAVATED ON-SITE SOILS FOR RE-USE. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.
- CONTROLLED LOW STRENGTH MATERIAL (CLSM): SELF LEVELING AND SELF
 COMPACTING CEMENTITIOUS MATERIAL WITH AN UNCONFINED COMPRESSIV
 STRENGTH BETWEEN 50 PSI AND 150 PSI.
- B. WELL GRADED GRANULAR MATERIAL: WELL GRADED MIXTURE OF CRUSHED GRAVEL, CRUSHED STONE, AND SAND PER ASTM D294 WITH AT LEAST 195 PERCENT PASSING A 1 % SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 200 SIEVE.
- C. FREE DRAINING GRANULAR FILL: NARROWLY GRADED MIXTURE OF CRUSHED STONE PER ASTM D448 WITH COARSE AGGREGATE GRADING SIZE 67 WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NO MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.
- D. IMPERVIOUS FILL: LEAN CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE.
- 5. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL COMDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENSINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR CLSM UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS
- 6 MINIMUM FOLINDATION DEPTH IS 24 INCHES BELOW GRADE BOTTOM OF FOOTINGS MAT MINIMUM F-OUNDATION DEPTH IS 24 INCHES BELOW GRADE. BOTTOM OF FOOTINGS, MAT FOUNDATIONS AND GRADE BEAMS THAT A RE NOT PART OF AN INSULATED FROST PROTECTED FOUNDATION SYSTEM AND ARE NOT WITHIN CONDITIONED SPACE MUST BE BELOW SPECIFIED MINIMUM FROST DEPTH AS MEASURED FROM EXTERIOR GRADE. MAINTAIN SPECIFIED TIFDIN ELEVATIONS AND THICKEN FOOTING OR FLACE ON CLSM AS

- FOUNDATIONS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL
- 8. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 2% OPTIMUM MOISTURE CONTENT.
- A. SUBGRADE: PROOF ROLL TOP 12" OF SUBGRADE BELOW INTERIOR SLAB TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 2% OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT OF BASE COURSE.
- B. GRANULAR DRAINAGE LAYER: 6" OF WELL GRADED GRANULAR MATERIAL BELOW FLOOR SLAB COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +1-2% OPTIMUM MOISTURE CONTENT COMPACTED FREE DRAINING GRANULAR FILL CAPILLARY BREAK.
- 10. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED PRIOR TO FOOTING
- BACKFILL TRENCHES UNDER FOOTINGS AND WITHIN 18 INCHES OF BOTTOM OF FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.
- BACKFILL TRENCHES EXCAVATED UNDER FOOTINGS AND MORE THAN 18 INCHES BELOW BOTTOM OF FOOTINGS WITH CLSM OR OTHER FILL MATERIAL APPROVED BY GEOTECHNICAL ENGINEER.
- 11. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED IMPERVIOUS FILL OR CLSM TO CREATE A DAM TO PREVENT ENTRY OF WATER.
- 12. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION

50 PSF (Per NFPA 1402)

- A. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS SHALL BE PERMITTED WITHOUT ANY SPECIAL MEASURES AS LONG AS THE BOTTOM NEAR EDGE OF THE EXCAVATION IS ABOVE A LINE WITH SLOPE OF 2 HORZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE
- EXISTING FOUNDATION.

 B. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS WITH THE BOTTOM NEAR EDGE OF THE EXCAVATION BELOW A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD RROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION SHALL BE MADE ONLY WITH THE APPROVAL OF THE STRUCTURAL HORIZONER AND THE PROJECT GETCHINCAL ENGINEER. SUCH EXCAVATIONS MAY REQUIRE SPECIAL TEMPORARY EXCAVATION BRACING OR UNDERPRINNED OF EXISTING FOUNDATIONS, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR APART OF THIS SELECTED MEANS, METHODS, TECHNIQUES, SCIUNECS, OR PROJECURES. CONTRACTOR SHALL SUBMIT TEMPORAN OF CONTRACTOR SHALL SUBMIT TEMPORAN OF CONTRACTOR SHALL SUBMIT TEMPORAN ON CONTRACTOR SHALL PERFORM THESE EXCAVATIONS WITH CAUTION SO AS NOT TO UNDERSINE ANY EXCENTING STRUCTURE FOUNDATIONS, AND EXCAVATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
- 14. UTILITY TRENCHES PARALLEL TO FOOTINGS AND WITH PIPES BELOW THE BOTTOM OF FOOTING ELEVATION MUST BE LOCATED SO THAT THE SLOPE BETWEEN THE PIPE INVERT ELEVATION AND THE REAREST BOTTOM CORNER OF THE FOOTING IS A MINIMUM OF 2 HORIZONTAL TO 1 VERTICAL.

CAST-IN-PLACE CONCRETE (03-30-00)

- CONCRETE MIXTURES: REFER TO CONCRETE MIXTURE REQUIREMENTS TABLE FOR CONCRETE MIX INFORMATION.
- 2. CONCRETE MATERIALS:

- A. CEMENTITIOUS MATERIALS

 i. PORTLAND CEMENT: ASTM C150, TYPE I/II.

 ii. BLENDED HYDRAULIC CEMENT: ASTM C595, TYPE II., PORTLAND LIMESTONE
 CEMENT

 iii. FLY ASN: ASTM C518, CLASS F OR C. FLY ASH SHALL NOT EXCEED 25% OF TOTAL
 CEMENTITIOUS CONTENT BY MASS.
- FLY ASH: ASH M C618, CLASS F OR C. FLY ASH SHALL NOT EXCEED 25% OF TOTAL CEMENTITIOUS CONTENT BY MASS. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989, GRADE 100 OR 120. COMBINATION SLAG, AND FLY ASH SHALL NOT EXCEED 50% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
- B. AGGREGATES:
 i. NORMAL WEIGHT AGGREGATES: ASTM C33. COARSE GRADED.
- C. ADMIXTURES: ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.

 1. WATER REDUCING ADMIXTURE: ASTM C494.

 1i. PLASTICIZING ADMIXTURE: ASTM C1917.

 1ii. AIR ENTRAINING ADMIXTURE: ASTM C290.
- D. WATER: ASTM C94 AND POTABLE
- 3 DETAILING REQUIREMENTS
- A. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
- B. CONTRACTION JOINTS IN SLABS ON GROUND SHALL NOT EXCEED A LENGTH TO WIDTH RATIO OF 1.5:1. SEE PLAN FOR MAXIMUM JOINT SPACING.

4 PERFORMANCE

- CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1-90 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R-16" QUIDE TO COLD WEATHER CONCRETING".
- . CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305.1-14 "SPECIFICATION FOR HOT WEATHER CONCRETING" AND ACI 305R-10 "GUIDE TO HOT WEATHER CONCRETING". THE AIR TEMPERATURE, EALTWIE HUMDITY, CONCRETE TEMPERATURE, AND WIND SPEED SHALL BE ENTERED INTO NOMOGRAPH FIGURE 4.2 IN ACI 305R-10 TO DETENMINE IF PRECAUTIONS AGAINST FLASTIC SHRINKAGE ARE REQUIRED
- C. TOLERANCES: CONFORM TO ACI 117-10
- D. EXTERIOR SLAB FINISHING AND CURING:
 i. FINISH: LIGHT BROOM FINISH
 ii. CURING: UV RESISTANT ACRYLIC "CURE AND SEAL" LIQUID MEMBRANE FORMING
 CURING COMPOUND (ASTM 01315, TYPE 1, CLASS A).
- E. IF CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH IF CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH WILL RESULT IN THE SPECIFIED SLUMPA THE POINT OF PLACEMENT AND IS UNSUITABLE FOR PLACING AT THAT SLUMP. THE SLUMP MAY BE ADJUSTED ONCO ONLY OT HE REQUIRED VALUE BY ADDING WATER UP TO THE ANOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTN GO, BO NOT EXCEED THE SPECIFIED WATER-CHEWATTHOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING. AFTER PLASTICISMS OR WATER REDUCING ADMIXTURES ARE ADDED TO THE CONCRETE AT THE SITE TO ACHIEVE LOVABLE CONCRETE. DO NOT ADD WATER TO THE CONCRETE MEASURE SLUMP (AND AIR CONTRET) OF AIR WITH PRANCE CONCRETE. IS DON'T ADD WATER TO THE CONCRETE. MEASURE SLUMP (AND AIR CONTRET) OF AIR WITH PRANCE CONCRETE. MEASURE SLUMP (AND AIR CONTRET) OF AIR WITH PRANCE CONCRETE.) AFTER SLUMP ADJUSTMENT, TO VERIFY COMPILANCE WITH SPECIFIED REQUIREMENTS.
- SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION OF ADMIXTURES

- A CONCRETE MIX DESIGNS. CONCRETE MIX DESIGNS INCLUDING PRODUCT DATA FOR ALL CONSTITUENTS AND ADMIXTURES SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301-16 FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING THAIL DATA MIXTURE OF CONTRACT OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OFF
- B. PRODUCT DATA FOR CURING MATERIALS
- 6. QUALITY ASSURANCE

A. CONCRETE WORK AND TESTING, AS PERFORMED BY "QUALIFIED FIELD TESTING CONCRETE WORK AND ILESTING, AS PERFORMED BY QUALIFIED THE LED TESTING TECHNICIANS" AND QUALIFIED LABORATORY TECHNICIANS". SHALL CONCRETE FOR REQUIREMENTS AND QUALIFIED LABORATORY TECHNICIANS STRUCTURAL CONCRETE FOR DIFFERENCE AND AND THE STRUCTURAL REQUIREMENTS ABOVE. THE STRUCTURAL BY SECTION 1.6 OF ACT OF 301-16 SHALL BE SUBMITTED FOR THE STRUCTURAL BEGINNERS. ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER.

CONCRETE REINFORCING (03-20-00)

- DEFORMED BARS: ASTM A615, OR ASTM A706, GRADE 60.
 ASTM A706 DEFORMED BARS ARE REQUIRED FOR ALL WELDED REINFORCING BARS.
- B WELDED WIRE REINFORCEMENT: ASTM A1064 FLAT SHEETS ONLY 2. REINFORCING DEVELOPMENT AND LAP SPLICES (UNLESS OTHERWISE NOTED)
- SEE REINFORCING BAR DEVELOPMENT TABLES FOR REQUIRED DEVELOPMENT AND LAP SPLICE LENGTHS.
- B. WELDED WIRE REINFORCEMENT: LAP WELDED WIRE REINFORCEMENT MINIMUM 1 FULL SPACE PLUS 2*.
- 3. PERFORMANCE
- A. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING AND SUPPORTING REINFORCEMENT.
- REINFORCING BARS SHALL HAVE CLEAR COVER AS INDICATED ON THE DRAWINGS.
 WHERE NOT INDICATED, PROVIDE MINIMUM CLEAR COVER PER ACI-318.
- C. REINFORCING BARS SHALL BE FREE OF DIRT AND FORM RELEASE AGENTS
- 4. SUBMITTALS
- A. SHOP DRAWINGS FOR REINFORCING STEEL (COMPLY WITH ACI SP-066):

STRUCTURAL STEEL

- 1. MATERIALS (UNLESS NOTED OTHERWISE):
- A. PLATES AND ROLLED SHAPES OTHER THAN W-SHAPES: ASTM A36, Fy = 36 KSI, UNLESS NOTED OTHERWISE ON DRAWINGS
- B. HEADED STUD ANCHOR CONNECTORS (AT EMBED PLATES): AWS D1.1 GR. B
- C. WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.
- ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS
 FOR 'DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS', AM
 THE AISC 'CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES', LATEST
- FABRICATOR QUALIFICATIONS: STRUCTURAL STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, AND SHALL BE DESIGNATED AS AN AISC-CERTIFIED PLANT, CATEGORY STD.
- A. STRUCTURAL STEEL SHOP DRAWINGS
- 5. CONNECTIONS
- A. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS
- D1.1:2010)
 i. HEADED STUD SHEAR CONNECTORS SHALL BE WELDED WITH AUTOMATICALLY TIMED STUD WELDING EQUIPMENT. FILLET WELDS ARE NOT PERMITTED.
- 6 PAINT AND PROTECTION:
- A MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURE

 I. HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION. COATING WEIGHT PER
 PARAGRAPH 5.1 OF ASTM A123 AND A135. FABRICATE ASSEMBLIES PER ASTM A143,
 A394, AND A395. AFTER ERECTION, REPAIR DAMAGED AREAS AND WELDS MADE
 AFTER GALVANIZING IN ACCORDANCE WITH ASTM A750 WITH ORGANIC ZINC RICH
 PAINT COMPLYING WITH DOD-P-21035 OR MIL-P-26915, MULTIPLE COATS TO DRY
 FILM THICKNESS OF A MILS. FILL EXPOSED VENT AND DRAIN HOLES. NOT INDICATED
 AS WEEP HOLES, BY PLUGGING WITH ZINC SOLDER AND FILING OFF SMOOTH.
- B. MEMBERS ENCASED IN CONCRETE: PROVIDE 3" MINIMUM CONCRETE COVER FOR ALL STEEL BELOW GRADE.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED BY SECTION 1704 OF THE REFERENCED BUILDING CODE. THE INTENT OF SPECIAL INSPECTIONS IS TO VERIFY THE COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, RECRECTION ANDOR PLACEMENT OF COMPONENTS WITH THE COMPLETED SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. IT IS THE RESPONSIBILITY OF ALL PRATIES INVOLVED TO BECOME FAMILIAR WITH THE SPECIAL INSPECTION REQUIREMENTS SET FORTH IN CHAPTER 17 OF THE REFERENCED BUILDING CODE. SPECIAL INSPECTIONS SHALL BE PROVIDED BY THE OWNER OR THE OWNERS AGENT AND SHALL NOT BE CONSIDERED IN THE SCOPE OF WORK OF THE CONTRACTOR.

CONTRACTOR.
THE FOLLOWING SCHEDULE OF SPECIAL INSPECTIONS FOR STRUCTURAL WORK HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 106.1 AND 1704 OF THE REFERENCED BUILDING CODE. SEE OTHERS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WOTHER SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WOTHER SPECIAL INSPECTION REQUIREMENTS. FOR NON-STRUCTURAL WOTHER SPECIAL INSPECTIONS OF STRUCTURAL WOTHER STRUCTURAL WOTHER STRUCTURAL WOTHER STRUCTURE STRUCTU

	<u>LEGEND</u>	
SYMBOL	DESCRIPTION	REFERENCE
(n)	COLUMN LINE DESIGNATION	
n	FACE OF BUILDING	
$\langle n \rangle$	FOOTING MARK	SHEET S101
(EPn)	EMBED PL MARK	SHEET S101
Pn	PEDESTAL MARK	SHEET S101
*	ELEVATION INDICATION	SHEET S101

BRG =	BEARING
CFS =	COLD-FORMED STEEL
CJ =	CONTRACTION JOINT
CJP =	COMPLETE JOINT PENETRATION
CL =	CENTER LINE
CLR =	CLEAR
CLSM =	CONTROLLED LOW STRENGTH MATERIAL
CMU =	CONCRETE MASONRY UNIT
COL =	COLUMN
CONC =	CONCRETE
CONT =	CONTINUOUS
DEG or ° =	DEGREE
DIA or ø =	DIAMETER
EA =	EACH
EF =	EACH FACE
EL =	ELEVATION
EMB =	EMBEDMENT
EOD =	EDGE OF DECK
EOS =	EDGE OF SLAB
EQ =	EQUAL
EXIST =	EXISTING
EXP =	EXPANSION
FDN =	FOUNDATION
FS =	FAR SIDE
FTG =	FOOTING
GA =	GAGE
GALV =	GALVANIZED
GT =	GIRDER TRUSS
HORIZ =	HORIZONTAL
JST BRG =	JOIST BEARING
Ld=	TENSION DEVELOPMENT LENGTH OF
	REINFORCING BAR IN CONCRETE
Ld-CMU =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN GROUTED CMU
l do -	COMPRESSION DEVELOPMENT LENGTH OF
Ldc =	REINFORCING BAR IN CONCRETE
LDH =	LONG DIMENSION HORIZONTAL
Ldh =	HOOKED BAR TENSION DEVELOPMENT
Lan =	LENGTH OF REINFORCING BAR IN CONCRETE
LDV =	LONG DIMENSION VERTICAL
LLH =	LONG LEG HORIZONTAL
LLV =	LONG LEG VERTICAL
Ls=	LAP SPLICE LENGTH OF REINFORCING BAR IN
	CONCRETE
Ls-CMU =	LAP SPLICE LENGTH OF REINFORCING BAR IN
	GROUTED CMU
Lsc =	COMPRESSION LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
LSL =	LAMINATED STRAND LUMBER
LVL = MCJ =	LAMINATED VENEER LUMBER MASONRY CONTROL JOINT
	MASONRI CONTROL JUINI
MFR =	MANUFACTURER NEAR SIDE
NS =	
oc =	ON CENTER
OPNG =	OPENING
OPP =	OPPOSITE
P/T =	POST-TENSION
PAF =	POWER-ACTUATED FASTENER
PE =	PRE-ENGINEERED
PEMB =	PRE-ENGINEERED METAL BUILDING
PJP =	PARTIAL JOINT PENETRATION
PL =	PLATE
PSL =	PARALLEL STRAND LUMBER
PT =	PRESSURE TREATED
RD =	ROOF DRAIN
REINF =	REINFORCING
RTU =	ROOF TOP UNIT
SDS =	SELF DRILLING SCREWS
SIM =	SIMILAR
CI -	
SL =	STEP LEDGE
SOMD =	SLAB ON METAL DECK
SOMD = SPA =	SLAB ON METAL DECK SPACE or SPACES
SOMD = SPA = SRD =	SLAB ON METAL DECK SPACE or SPACES SECONDARY ROOF DRAIN
SOMD = SPA = SRD = STIFF =	SLAB ON METAL DECK SPACE or SPACES SECONDARY ROOF DRAIN STIFFENER
SOMD = SPA = SRD = STIFF = STL =	SLAB ON METAL DECK SPACE or SPACES SECONDARY ROOF DRAIN STIFFENER STEEL
SOMD = SPA = SRD = STIFF =	SLAB ON METAL DECK SPACE or SPACES SECONDARY ROOF DRAIN STIFFENER

TOP OF WALL

TOP OF

UNLESS NOTED OTHERWISE

VERTICAL BRACING

WORK POINT

ABBREVIATIONS

ARCH = ARCHITECT
B/ = BOTTOM OF
BLDG = BUILDING





GREENVII I E FIRE DEPARTMENT TRAINING **FACILITY**

E 2ND STREET GREENVILLE, NC 27858

ENGINEER: MODELER: CHECKED BY: RW

ISSUE/REVISION/SUBMISSION DESCRIPTION

PROJECT NUMBER 24-2550

GENERAL NOTES

02/14/2025

SHEET

S001

NC COMPLIANCE DATA: ENTITY: STEVEN SCHAEFER ASSOCIATES, INC. ADDRESS: 537 EAST PETE ROSE WAY, STE 400

CINCINNATI, OH 45202 LICENSE #: C-1023

CONCRETE		EX	POSUF	E CLA	SS	MINIMUM fc AT 28	MAXIMUM		MINIMUM CEMENTITIOUS	
CLASS	DESCRIPTION	F	S	W	С	DAYS (PSI)	w/c RATIO	AIR CONTENT	MATERIAL (LB/CY)	REMARKS
Α	FOOTINGS	F0	S0	W0	C0	4500	-	-	-	-
В	PEDESTALS	F2	S0	W0	C1	4500	0.45	6% ±1.5%	-	-
С	EXTERIOR SLAB ON GRADE	F2	S0	W0	C1	4500	0.45	6% ±1.5%	-	-

CONCRETE MIXTURE NOTES:

- A. PROVIDE MIX DESIGNS IN ACCORDANCE WITH ACI 301-16 FOR SPECIFIED EXPOSURE CLASS AND AGGREGATE.
 B. NOMINAL MAX AGGREGATE SIZE = 3/4" UNLESS OTHERWISE NOTED
- C. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED

OOTINGS & PE	DESTALS (f'c = 450	OPSI)			
	Ld		Ls	;	
BAR SIZE	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	Ldh
	(in)	(in)	(in)	(in)	(in)
#3	14	18	18	23	7
#4	18	24	24	31	9
#5	23	30	30	38	12
#6	27	35	35	46	14
#7	40	51	51	67	16
#8	45	59	59	76	18
#9	51	66	66	86	21
#10	57	74	74	96	23
#11	64	82	82	107	26
#14	76	99	99	128	31

A. GRADE 60 UNCOATED REINFORCING STEEL

i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2

B. NORMAL WEIGHT CONCRETE

i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33

C. CLEAR COVER GREATER THAN db

D. MIN 2*db CLEAR SPACING BETWEEN BARS

FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED:

#6 AND SMALLER: Ld = 54 BAR DIAMETERS; Ls = 70 BAR DIAMETERS

#7 AND LARGER: Ld = 68 BAR DIAMETERS; Ls = 88 BAR DIAMETERS

FOR TOP BARS MULTIPLY BY 1.3 MINIMUM Ld AND Ls = 12"

LAP AND DEVELOPMENT TABLE NOTES & DEFINITIONS:

- A. TOP BARS = HORIZ BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS
- B. db = BAR DIAMETER
- C. s = CENTER-TO-CENTER BAR SPACING
- D. Ath = TOTAL AREA OF TIES OR STIRRUPS CONFINING HOOKED BARS
- E. Ahs = TOTAL AREA OF HOOKED BARS BEING DEVELOPED
- F. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, Ls FOR THE LARGER BAR SHALL BE USED G. ALL TENSION SPLICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE
- H. Ldh VALUES FOR #11 BARS AND SMALLER MAY BE REDUCED AS FOLLOWS (PER ACI 318-14)
- i. MULTIPLY BY 0.70 FOR (1) OR (2)
- (1) SIDE COVER ≥ 2 1/2"
- (2) 90° HOOKS WITH COVER ON BAR EXTENSION BEYOND HOOK ≥ 2"
- ii. MULTIPLY BY 0.80 FOR (3), (4), or (5)
- (3) 90° HOOKS ENCLOSED ALONG Ldh WITHIN TIES OR STIRRUPS AT s ≤ 3db (4) 90° HOOKS ENCLOSED ALONG THE BAR EXTENSION WITHIN TIES OR STIRRUPS AT s ≤ 3db
- (5) 180° HOOKS ENCLOSED ALONG Ldh WITHIN TIES OR STIRRUPS AT s ≤ 3db
- iii. Ldh SHALL NOT BE LESS THAN THE LARGER OF 8db OR 6" WITH REDUCTIONS APPLIED

	SCHEDULE OF SPECIA	L INSP	ECTION	SERVIC	ES - 1705.6 SOILS	
lkom	Item Sub Item / Scope		Extent		Agency	Comments
item	Sub item / Scope	Cont.	Periodic	N/A	Qualifications	Comments
Bearing Materials	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		×		Testing Agency Under supervision of Licensed Geotechnical Engineer	
2. Excavations	Verify excavations are extended to proper depth and have reached proper material		Х		Testing Agency Under supervision of Licensed Geotechnical Engineer	
3. Fill Classification	Perform classification and testing of compacted fill materials		×		Testing Agency Under supervision of Licensed Geotechnical Engineer	
4. Placement and Fill Compaction	Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill	X			Testing Agency Under supervision of Licensed Geotechnical Engineer	
5. Subgrade	Prior to placement of compacted fill, inspect subgrade and verify that the site has been prepared properly		Х		Testing Agency Under supervision of Licensed Geotechnical Engineer	

			Extent		Agency	
Item	Sub Item / Scope	Cont.	Periodic	N/A	Qualifications	Comments
In-Plant Special Inspections (Precast Concrete)	Fabrication and implementation procedures: In addition to special inspections provided on site, provide special inspections indicated below on the premises of fabricator's shop. Verify that the fabricator maintains detailed fabrication and quality control procedures.			X	As Noted Below	Special inspections on the premises of the fabricator's shop are not required provide the fabricator is an Approved Fabricator in accordance with section 1704.2.5.1. Fabricator is required to submit documentation/certification that they are an Approved Fabricator.
Reinforcing steel	a. Mild Reinforcing Steel: Inspect size, spacing, cover, positioning and grade of reinforcing steel: Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. Verify welded wire fabric is supported per construction documents. Reference ACI 318: 20, 25.2.25.3.26.6-1-26.6-3. and IBC 1908.4.		х		Testing Agency	
	 b. Prestress Steel: Inspect size, spacing, cover, and position of prestressing tendons: 			X	Testing Agency	
Welding of Reinforcing Steel	Verify weldability of reinforcing bars other than ASTM A706. Reference ACI 318: 26.6.4 and AWS D1.4			Χ	Testing Agency	
Terms on g	b. Inspect single pass fillet welds, maximum 5/16"			Х	Testing Agency AWS - Certified Welding Inspector	
	c. Inspect all other welds			Х	Testing Agency AWS - Certified Welding Inspector	
3. Cast in Place Anchor Rods and Embed Plates	Inspect size, position and embedment of cast in place bolts, anchor rods, and embed plates. Inspect concrete placement and consolidation around anchors. Reference ACI 318: 17.8.2		Х		Testing Agency	
Post Installed Anchors (Anchors installed in Hardened Concrete)	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2.4	X			Testing Agency	Reference evaluation report (identified in project general notes) for additional inspection scope required by manufacturer.
b. Mechanical anchors and adhesive anchors not defined in 4 a. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.2.		Х		Testing Agency		
5. Mix Design	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at site, if permitted by construction documents, does not exceed that allowed by mix design.		х		Testing Agency	
6. Sampling and Testing of Concrete	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests as required by construction documents, and determine the temperature of concrete. Reference ASTM C 172, ASTM C31, ACI 318 19, 26.4.3, 26.4.4, and IBC 1904.1, 1904.2, 1908.2, 1908.3	Х			Testing Agency	
7. Concrete and Shotcrete Placement	Inspect concrete and shotcrete placement for proper application techniques. Reference ACI 318: 26.5 and IBC 1908.6, 1908.7, and 1908.8. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	Х			Testing Agency	
8. Curing and Protection	Inspect for maintenance of specified curing temperature and techniques. Inspect cold weather and hot weather protection procedures as applicable. Reference ACI 318: 26.5.3-26.5.5 and IBC 1908.9.		х		Testing Agency	
9. Prestressed (Post- tensioned) Concrete	a. Application of Prestressing Forces: Inspect placement, stressing, grouting and protection of post-tensioning tendons. Verify that tendons are correctly positioned, supported, tied and wrapped. Record tendon elongations. Reference ACI 318: 26.10.2			Х	Testing Agency	
	b. Grouting of Bonded Prestressing Tendons in the Seismic- Force Resisting System: Reference ACI 318: 26.10.1			Х	Testing Agency	
10. Precast Concrete Erection	connections, welding and grouting. Reference ACI 318: Ch 26.9			Χ	Testing Agency	
11. Verification of In- Situ Concrete Strength	Verify concrete strength prior to the removal of shores and forms from beams and structural slabs and prior to the stressing of tendons in post-tensioned concrete. Reference ACI 318: 26.10.2 & 26.11.11.2			Х	Testing Agency	
12. Formwork Geometry	Inspect formwork for shape, location and dimensions of the concrete member being formed. Reference ACI 318: 26.11		Х		Testing Agency	

NC COMPLIANCE DATA:

ENTITY: STEVEN SCHAEFER ASSOCIATES, INC. ADDRESS: 537 EAST PETE ROSE WAY, STE 400 CINCINNATI, OH 45202 LICENSE #: C-1023







GREENVILLE FIRE DEPARTMENT TRAINING FACILITY

E 2ND STREET GREENVILLE, NC 27858

MODELER: CHECKED BY: RW

ISSUE/REVISION/SUBMISSION NO DATE DESCRIPTION

PROJECT NUMBER: 24-2550

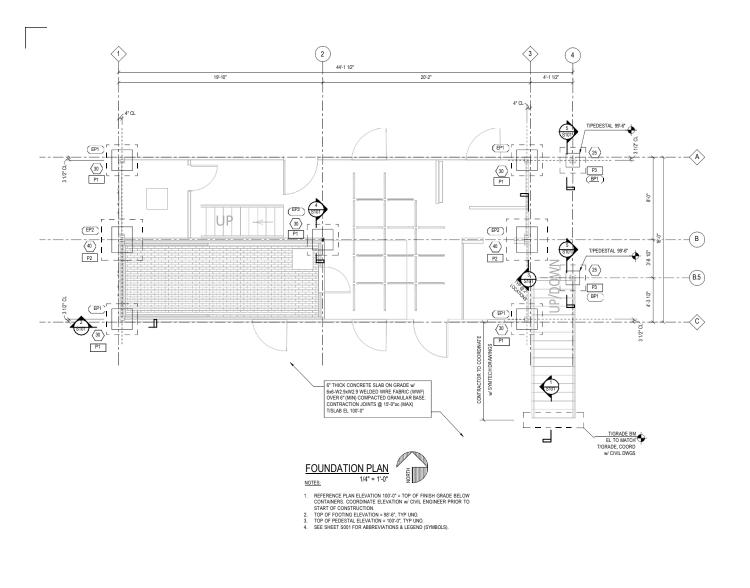
SHEET NAME:

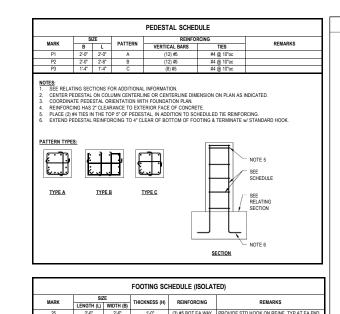
SPECIAL INSPECTIONS

02/14/2025

SHEET:

S002





	E WASHER w/ DARD HOLE			
BASE PLATE			PLATE WASHER SIZE	GROUT THICKNESS (H)
	DESTAL 3/4"	1 5/16"	2"x2"x1/4"	1 1/2*
開 男	HOR ROD, BASE PLATE DULE			
HEAN HEAN	Y HEX NUT			

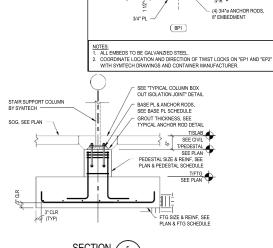
TYPICAL CAST-IN-PLACE ANCHOR ROD DETAIL

SHIM PLATE 8" x 0'-8", COORDINATE THICKNESS w/ CONTAINER MEMBER SIZES

PEDESTAL SIZE & REINF, SEE PLAN & PEDESTAL SCHEDULE

2" CLR, TYP

SECTION 4



BASE PLATE & EMBED PLATE DETAILS

EQ EQ

(EP1)

(EP2)

(EP3)

TYP, 3-SIDES

- 3/4" EMBED PLATE w/ (4) 5/8"ø x 6" AWS ANCHORS







E 2ND STREET GREENVILLE, NC 27858

ENGINEER: CHECKED BY: RW

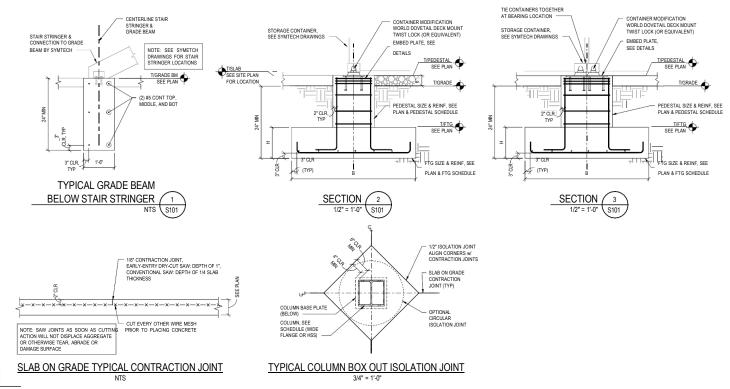
ISSUE/REVISION/SUBMISSION

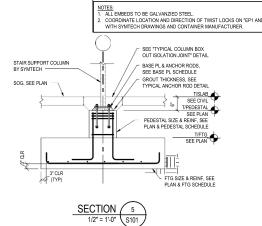
PROJECT NUMBER: 24-2550

FOUNDATION PLAN

02/14/2025

S101





NC COMPLIANCE DATA:

ENTITY: STEVEN SCHAEFER ASSOCIATES, INC. ADDRESS: 537 EAST PETE ROSE WAY, STE 400 CINCINNATI, OH 45202 LICENSE #: C-1023