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SECTION 013330
STRUCTURAL SUBMITTALS

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Structural submittals include shop drawings, design calculations, diagrams, illustrations, schedules, performance charts, nomenclature charts, samples, brochures and other data prepared by the Contractor or any subcontractor, manufacturer, supplier, fabricator, or distributor and which illustrate some portion of the Project.
B. Submittals by the Contractor are not a part of the Contract Documents.
1.2 RELATED SECTIONS
A. Section 01 33 00 - Submittals
1.3 SUBMITTAL PROCEDURES
A. Prior to the initial submittal, Contractor shall submit to the Design Professional a completed Submittal Information and Schedules form given in Appendix I.
B. Submittals shall be accompanied by a transmittal letter with the following information:
1. Project name.
2. Contractor's name.
3. Date submitted.
4. Description of items submitted; identify work and product by Specification Section.
5. Number of drawings and other pertinent data.
C. Provide blank space on each submittal for the Design Professional's review stamp.
D. The type and number of submittals for each item shall be in accordance with Section 013000.
E. Contractor shall direct specific attention on the submittal to any deviation from the Contract Documents.
1.4 CONTRACTOR RESPONSIBILITY
A. Contractor shall make all submittals in advance of installation or construction to allow the Design Professional sufficient time for review.
B. Contractor shall stamp and sign each sheet of shop drawings and product data, and sign or initial each sample to certify compliance with requirements of Contract Documents. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL.
C. Contractor shall understand that the submittal of the required documents does not constitute compliance with the requirements of the Contract Documents; only submittals reviewed by the Design Professional constitute compliance.
D. It is the Contractor's responsibility to furnish equipment, materials, and labor for the Project which meets the requirements of the codes and authorities quoted as well as the Contract Documents. Proprietary items specified herein only establish a minimum functional and aesthetic standard and it is incumbent upon the Contractor to ascertain conformance of these proprietary items or any proposed substitution with the codes and authorities.
E. By reviewing, approving and submitting shop drawings, product data, or samples, Contractor thereby represents that he has determined and verified all field measurements, field construction criteria, materials, member sizes catalog numbers, and similar data and that he has checked and coordinated shop drawings with the requirements of the Project and of the Contract Documents.
F. Work requiring shop drawings, whether called for by the Contract Documents or requested by the Contractor, shall not commence until the submission has been reviewed by the Design Professional. Work may commence if the Contractor verifies the accuracy of the Design Professional's corrections and notations and complies with them without exception and without requesting change in Contract Sum or Contract Time.
1.5 DESIGN PROFESSIONAL REVIEW
A. Design Professional will review submittals with reasonable promptness.
B. Design Professional's review or corrections refer only to the general arrangement and conformance of the subject of the submittals with the design concept of the project and with the information given in the Contract Documents. Under no conditions should the Contractor consider the review to include the dimensions, quantities, and details of the items nor the approval of an assembly in which the item functions.
C. Design Professional's review shall not relieve the Contractor from responsibility for errors or omissions in the submittals.
D. Design Professional's review of submittals shall not relieve the Contractor of responsibility for any deviation from the requirements of the Contract Documents unless the Contractor has directed specific attention to the deviation at the time of submission and the Design Professional has given written approval to the specific deviation.
E. Design Professional's review of submittals shall not be construed as authorizing any change in the Contract Sum or Contract Time.
1.6 SHOP DRAWINGS
A. Present in a clear and thorough manner. Title each drawing with Project name and number; identify each element of drawings by reference to sheet number and detail of Contract Documents.
B. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.
C. Identify field dimensions; show relationship to adjacent or critical features of Work or products.
D. A copy of the marked structural shop drawings with the Design Professional's review stamp is to be maintained at the job site.
1.7 PRODUCT DATA
A. Submit only pages which are pertinent; mark each copy of standard printed data to identify pertinent products, referenced to Specification Section and Article number. Show reference standards, performance characteristics, and capacities; wiring and piping diagrams and controls; component parts; finishes; dimensions; and required clearances.
B. Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to this work. Delete information which is not applicable.
C. Provide manufacturer's preparation, assembly, and installation instructions.
1.8 SAMPLES
A. Submit full range of manufacturer's standard finishes except where more restrictive requirements are specified, indicating colors, textures, and patterns.
B. Submit samples to illustrate functional characteristics of products, including parts and attachments as required by Design Professional.
C. Approved samples which are of proper size may be incorporated in Work.
D. Label each sample with identification.
E. Field Finishes: Provide full samples at Project, at location acceptable to Design Professional, as required by individual Specification Section. Install each sample complete and finished. Acceptable finishes in place may be retained in completed work.
1.9 RESUBMITTALS
A. When submittals are returned to the Contractor with the Design Professional's corrections the Contractor shall make the required corrections. Upon request, resubmit one corrected set.
B. Contractor shall direct specific attention on the resubmittal to all revisions including those requested by the Design Professional on previous submission.
1.10 DISTRIBUTION
A. Distribute reproductions of shop drawings, copies of product data, and samples which bear the Design Professional's review stamp to job site file, Record Documents file, subcontractors, suppliers, other affected contractors, and other entities requiring information.
B. Work shall be in accordance with and performed from the reviewed drawings.
PART 2 - PRODUCTS
Not Used.
PART 3 - EXECUTION
Not Used.

END OF SECTIONAPPENDIX I
SUBMITTAL INFORMATION AND SCHEDULES

PROJECT _____
CONTRACTOR _____
CONTRACTOR'S ADDRESS _____
PROJ. MANAGER _____
PHONE _____
FAX _____
SUPERINTENDENT _____
PHONE _____
FAX _____
MOBILIZATION DATE _____

PROJECTED SUBMITTAL DATES

FOUNDATION, CONCRETE & REINFORCING		STRUCTURAL STEEL		MASONRY	
SUBMITTAL	DATE	SUBMITTAL	DATE	SUBMITTAL	DATE
Site Preparation & Equipment Information		Fabricator / Erector Qualifications		Grout & Mortar Mix	
Concrete Mix Design		Anchor Bolt & Embedded Items		Block Prism & Comp. Strength	
Foundation Reinforcing		Erection & Detail Drawings		Reinforcing	
				Written Procedures	
		Deck		WOOD	DATE
		Stair Drawings		Trusses	

REMARKS: _____

COMPLETED BY _____ DATE _____

END OF APPENDIX I

SECTION 014525
STRUCTURAL TESTING/INSPECTION AGENCY SERVICES

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Section summarizes the responsibility of the Contractor and the Structural Testing/Inspection Agency in the performance of the testing/inspection specified in the Contract Documents.
B. Neither the observation of the Design Professional in the administration of the contract, nor tests/inspections by the Testing/Inspection Agency, nor approvals by persons other than the Design Professional shall relieve the Contractor from his obligation to perform the work in accordance with the Contract Documents.
1.2 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014000 - Quality Control Services.
1.3 REFERENCES
A. ASTM D3740 - Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
B. ASTM E329 - Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction.
C. American Council of Independent Laboratories - Recommended Requirements for Independent Laboratories Qualifications.
1.4 SELECTION AND PAYMENT
A. Owner will employ and pay for the structural testing/inspection services that are required by the Contract Documents.
B. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with Contract Documents due to negligence or nonconformance.
C. Contractor shall pay for any additional structural testing/inspection required for his convenience.
D. Qualifications: Minimum Special Inspector qualifications shall be per Table 1704.2 of the International Building Code (2024 Edition).
1.5 STRUCTURAL TESTING/INSPECTION REQUIREMENT SUMMARY
A. Specific structural testing/inspection requirements are given in the following specification sections:

Specification 03 1000 - Concrete Formwork Inspection
Specification 03 2000 - Concrete Reinforcement Inspection
Specification 03 3000 - Concrete Testing/Inspection
Specification 03 6200 - Non-Shrink Grout Inspection
Specification 04 2200 - Masonry Testing/Inspection
Specification 05 1000 - Structural Steel Inspection
Specification 05 3000 - Metal Deck Inspection
Specification 05 4400 - Light Gage Truss Inspection
Specification 06 1753 - Wood Truss Inspection
Specification 31 2301 - Excavating, Backfilling, and Compacting For Structures

1.6 STATEMENT OF SPECIAL INSPECTIONS
A. Provide testing/inspection required to meet the provisions of the Schedule of Special Inspection Services as provided in the contract documents.
PART 2 - MATERIALS
Not Used.
PART 3 - EXECUTION
3.1 STRUCTURAL PRECONSTRUCTION MEETING
A. A structural preconstruction meeting may be conducted at the construction site by the Design Professional to discuss quality issues. The parties involved may be the Design Professional, Contractor, Structural Testing/Inspection Agency, appropriate subcontractors, suppliers, and detailers.
3.2 STRUCTURAL TESTING/INSPECTION AGENCY'S RESPONSIBILITIES
A. Cooperate with the Contractor and provide timely service.
B. Upon arriving at the construction site, sign in and notify the Contractor of presence.
C. Select the representative samples that are to be tested/ inspected.
D. Perform tests/ inspections as outlined in Contract Documents, the applicable codes, and as directed by the Design Professional.
E. Report work and materials not complying with Contract Documents immediately to the Contractor and Design Professional.
F. Leave copies of field notes with the Contractor prior to leaving the construction site. Field notes shall include the message given to the Contractor, date, time of message, name of Contractor's representative informed, type and location of work or materials tested/inspected, whether the work or materials complies with Contract Documents and name of the Structural Testing/Inspection Agency's representative.
G. Report and distribute results of tests/inspections promptly in the form of written reports as directed by the Design Professional.
H. Structural Testing/Inspection Agency shall not alter requirements of Contract Documents, approve or reject any portion of the work, or perform duties of the Contractor.
3.3 CONTRACTOR'S RESPONSIBILITIES
A. Provide copy of Contract Documents to the Structural Testing/Inspection Agency.
B. Arrange the preconstruction meeting to discuss quality issues.
C. Notify the Structural Testing/Inspection Agency sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
D. Cooperate with Structural Testing/Inspection Agency and provide access to work.
E. Provide samples of materials to be tested in required quantities.
F. Furnish copies of mill test reports when requested.
G. Provide storage space for Structural Testing/Inspection Agency's exclusive use, such as for storing and curing concrete testing samples.
H. Provide labor to assist the Structural Testing/Inspection Agency in performing tests/inspections.
3.4 OPTIONS
A. If the Structural Testing/Inspection Agency is located at such a distance from the project that travel expenses will be a consideration, or if the amount of sampling performed is minor, and by mutual agreement of the Design Professional and Contractor, the Contractor may be requested to take samples and forward them to the Structural Testing/Inspection Agency for testing/inspection.
END OF SECTION

SECTION 032000
CONCRETE REINFORCEMENT

PART 1 - GENERAL
1.1 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
C. Section 031000 — Concrete Formwork
D. Section 033000 — Cast-In-Place Concrete.
1.2 REFERENCES
A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials.
B. ACI 301 - Standard Specifications for Structural Concrete.
C. ACI 318- Building Code Requirements for Structural Concrete.
D. ASTM A1064- Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete Reinforcement.
E. ASTM A615- Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
F. ASTM A706- Standard Specification for Low-Alloy Steel Deformed Bars for Concrete Reinforcement.
G. AWS D1.4- Structural Weld Code - Reinforcing Steel.
H. CRSI - Manual of Practice, and Documents 63 and 65.
1.3 SUBMITTALS
A. Shop drawings:
1. Notify Design Professional prior to detailing reinforcing steel shop drawings.
2. Include placing drawings that detail fabrication, bending, and placement. Provide elevations of all wall reinforcement.
3. Include locations of proposed construction joints for approval by EOR. Contractor to submit sequence of placing concrete.
4. Include bar sizes, lengths, materials, grades, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, location of splices, lengths of lap splices, details of mechanical splice couplers, details of welding splices, tie spacing, hoop spacing, and supports for concrete reinforcement. Reinforcement detailing of standard hooks, splices and development lengths shall conform to ACI 318 unless noted otherwise on drawings.
5. Include proposed field bending or cutting locations and cutting methods for approval by EOR.
6. Written description of reinforcement without adequate sections, elevations, and details is not acceptable.
7. All revisions to shop drawings shall be clouded.
8. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.
B. Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the ASTM and ACI standards referenced.
C. Submit mill test reports
D. Submit manufacturer's data for tensile and compressive splicers.
E. Submit manufacturer's data including installation recommendations for dowel adhesive.
1.4 QUALITY ASSURANCE
A. Coordinate and schedule in a timely manner with the Structural Testing/Inspection Agency the following quality related items:
1. Verify reinforcing steel for quantity, size, location, and support.
2. Verify proper reinforcing steel concrete coverage.
3. Inspect mechanical splice couplers and reinforcement welding.
B. Structural Testing/Inspection Agency shall provide special inspections as required by Chapter 17 of the building code and as required by Specification 014525.
C. The Structural Testing/Inspection Agency shall be qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.
1.5 STORAGE AND PROTECTING
A. Store reinforcing steel above ground so that it remains clean. Maintain steel surfaces free from materials and coatings which might impair bond.
PART 2 - PRODUCTS
2.1 MATERIALS
A. Deformed reinforcing steel shall conform to ASTM A615, refer to Structural Drawings for grade (Grade 60 minimum).
B. Welded steel wire fabric shall conform to ASTM A1064.
2.2 ACCESSORY MATERIALS
A. A. Annealed steel tie wire shall be 16-1/2 gage minimum.
B. Bar supports shall be plastic-tipped steel Class I bar supports conforming to CRSI Specifications. Concrete brick may be used to support reinforcement to obtain proper clearance from earth.
2.3 SPLICERS
A. Tensile splicers shall be capable of developing 125% of the reinforcing steel ASTM specified minimum yield strength.
B. Compression splicers shall be the mechanical type such that the compression stress is transmitted by end bearing held in concentric contact.
2.4 DOWEL ADHESIVE
A. Adhesive for reinforcing dowels in existing concrete shall conform to ASTM C881-13, Type IV, Grade 3, CLASS A, B, & C except gel times and epoxy content. Adhesive shall consist of a two component adhesive system contained in side by side packaging connected to a mixing nozzle which thoroughly mixes the components as it is injected into the hole. Adhesive shall have passed ICC Evaluation Services, Inc. Acceptance Criteria 308 for long term creep and be specifically approved for use in cracked concrete.
PART 3 - EXECUTION
3.1 FABRICATION
A. Fabricate steel in accordance with ACI 318 and CRSI standards.
B. Bend bars cold. Do not heat or flame cut bars. No field bending of bars partially embedded in concrete is permitted, unless specifically approved Design Professional and checked by Testing and Inspection Agency for cracks.
C. Weld only as indicated. Perform welding in accordance with AWS D1.4.
D. Tag reinforcing steel for easy identification.
3.2 INSTALLATION
A. Before placing concrete, clean reinforcement of foreign particles and coatings.
B. Place, support on chairs, and secure reinforcement against displacement in accordance with ACI 318 and CRSI standards. Do not deviate from alignment or measurement. Maximum support spacing shall not exceed 48 inches.
C. Place concrete beam reinforcement support parallel to main reinforcement.
D. Install welded-wire reinforcement in longest practicable lengths.
1. Locate welded wire fabric in the top third of slabs unless otherwise noted in drawings. WWF shall be supported on chairs.
2. Overlap mesh one lap plus two inches at side and end joints. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wires.
3. Support spacing of welded wire reinforcement shall not exceed 24 inches, unless noted otherwise on plans.
E. Furnish and install dowels or mechanical splices at intersections of walls, columns and piers to permit continuous reinforcement or development lengths at such intersections.
F. Maintain cover and tolerances in accordance with ACI and CRSI Specifications, unless indicated otherwise on Structural Drawings.
G. Preserve clearance between bars of not less than 1 inch, not less than one bar diameter, or not less than 1-1/3 times size of large aggregate, whichever is greater.
H. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.
3.3 INSTALLATION TOLERANCES
A. Comply with ACI 117 for installation tolerances.
3.4 SPLICES
A. Do not splice reinforcement except as indicated on Structural Drawings.
B. Stagger splices in accordance with ACI 318.
C. Tension couplers may be used and installed in accordance with manufacturer's specifications.
3.5 DOWELS IN EXISTING CONCRETE
A. Install dowels and dowel adhesive in accordance with manufacturer's recommendations.
B. Minimum embedment length shall be 12 bar diameters, unless noted otherwise.
END OF SECTION

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georgia civil
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
LAND SURVEYING

SHEAR STRUCTURAL

TOTAL ENGINEERS

Electrical Engineers

FIRE STATION #23

City of Covington

HIGHWAY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
	07/22/2026	ISSUED FOR PERMIT

Drawn By BS & SRC
Checked By HJ
Date 07/02/2026
Job No. 25033

Sheet Title
SPECIFICATIONS

Sheet No.
S-0.04

RELEASED FOR CONSTRUCTION