

EXHIBIT 1: NON-TECHNICAL SPECIFICATIONS

SECTION 01100

SUMMARY OF WORK

PART 1 GENERAL

1.01 SCOPE OF WORK

Unless otherwise expressly provided in the Contract Documents, the Work must be performed in accordance with best modern practice, with materials and workmanship of the highest quality to the satisfaction of the Owner.

- A. The Project title is Alachua County Transfer Station Repairs.
- B. The Work of this Project is described below. The description is not intended to be fully inclusive of all requirements as defined in the remainder of the agreement.
 - 1. Mobilization and demobilization.
 - 2. Provide temporary facilities, including but not limited to sanitary facilities and potable water for pump testing and other construction activities.
 - 3. Provide traffic control signalmen during times when access to the Transfer Station is interrupted because of construction activities, particularly during the tipping floor and driveways demolition and reconstruction.
 - 4. Site preparation including excavation, backfill, compaction, and erosion control.
 - 5. Obtain all permits as required by the County.
 - 6. Selectively demolish existing concrete tipping floor, entrance and exit driveways, damaged steel and concrete in the south loading hopper, drainage structures, and mechanical and electrical systems for the leachate management system as indicated on the Drawings and as needed for the new work.
 - 7. Repair the south loading hopper with high strength grout and steel plate cladding.
 - 8. Maintain and manage leachate flows at all times, including but not limited to bypass pumping, temporary piping, temporary electrical and control conduit, and wiring.
 - 9. Furnish and install new pumps and electrical and mechanical systems as indicated on the Drawings.
 - 10. Furnish and install a new leachate management system including sediment trap, pump station, fittings, and related electrical work.
 - 11. Furnish and install a new 8,700-gallon double-contained, high-density crosslinked polyethylene leachate storage tank, concrete pad, over excavation of existing soils, geogrid, backfill, and compaction of structural fill.
 - 12. Install new trench drains in the concrete tipping floor, related piping, concrete cutting, high strength concrete backfill, and pipe connections as indicated in the Drawings.
 - 13. Prepare existing tipping floor for new concrete and high-performance topping.
 - 14. Perform the work on the tipping floor in at least two phases, while

- maintaining transfer station operations.
15. Demolish the existing damaged concrete floor to the required depth and replace damaged steel reinforcing to prepare for placing the high-performance topping
 16. Install new concrete to return the tipping floor to the original design elevations, less the thickness of the high-performance topping.
 17. Install new high-performance topping to the final elevations and grades as indicated in the specifications and drawings.
 18. Furnish and install new conduit and wiring for pump power and controls.
 19. Construct new entrance and exit driveways to include subgrade, geogrid, and concrete pavement.
 20. Coordinate with County staff and electrical utility as needed.
 21. Provide equipment certification, testing, start-up, troubleshooting, and Owner training.
 22. Provide cleanup and site restoration.
 23. Provide high-performance topping extended warranty.
 24. Provide project closeout services including As-Built Drawing preparation.

1.02 WORK SEQUENCE

- A. The Contractor shall be responsible for preparing and submitting a construction schedule and sequence of construction plan for review and approval by the Engineer and Owner. The sequence of construction schedule shall follow the approved sequence of the construction plan. All work shall be constructed, complete, and ready for service within the time stipulated in these Contract Documents.
- B. The Contractor shall be solely responsible for the means, manpower, methods, techniques, schedule, sequences and procedures of construction, and all safety programs.

1.03 APPLICABLE CODES

- A. References in the Contract Documents to local codes mean Alachua County codes, local municipality codes, FDOT regulations, and the Standard Building Code of the Southern Building Code Congress International, Inc.

1.04 REFERENCE STANDARDS

Reference standards and recommended practices referred to herein shall be the latest revision of any such document in effect at the bid time. The following documents are a part of this Section. Where this Section differs from these documents, the requirements of this Section shall apply.

- A. American Association of State Highway and Transportation Officials (AASHTO) Formerly (AASHO)
- B. American Concrete Institute (ACI)
- C. American Institute of Steel Construction (AISC)
- D. American Iron and Steel Institute (AISI)
- E. American National Standards Institute (ANSI)
- F. American Standards Association (ASA)
- G. American Society of Mechanical Engineers (ASME)

- H. American Society of Testing and Material (ASTM)
- I. American Water Works Association (AWWA)
- J. American Welding Society (AWS)
- K. Anti-Friction Bearing Manufacturer's Association (AFBMA)
- L. Building Officials and Code Administrators International, Inc. (BOCA)
- M. Construction Specifications Institute (CSI)
- N. Federal Specification (FS)
- O. Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction, Latest English Edition (Standard Specifications)
- P. FDOT Roadway and Traffic Design Standards Latest English Edition (FDOT Index)
- Q. Geosynthetics Institute (GSI)
- R. National Bureau of Standards (NBS)
- S. National Electrical Manufacturer's Association (NEMA)
- T. National Fire Protection Association (NFPA)
- U. Portland Cement Association (PCA)
- V. Occupational Safety and Health Act (Public Law 91-596), U.S. Department of Labor (OSHA)
- W. Steel Structures Painting Council (SSPC)
- X. Southern Standard Building Code (SSBC)
- Y. Underwriters' Laboratories, Inc. (UL)
- Z. United States of America Standards Institute (USASI)
- AA. Regulations of Florida Industrial Commission Regarding Safety
- BB. All local, state, county, or municipal building codes requirements of the Owner's Insurance

1.05 QUALITY ASSURANCE

- A. Laws and Regulations: The Contractor shall give all notices and comply with all laws, ordinances, rules, and regulations applicable to the work. If the Contractor observes that the Specifications or Drawings are at variance therewith, the Contractor shall give the Engineer prompt written notice thereof, and any necessary changes shall be adjusted by an appropriate modification. If the Contractor performs any work knowing or having reason to know that it is contrary to such laws, ordinances, rules, and regulations, and without such notice to Engineer, the Contractor shall bear all costs arising therefrom; however, it shall not be the Contractor's primary responsibility to make certain that the Specifications and Drawings are in accordance with such laws, ordinances, rules, and regulations.
- B. Regulatory Requirements: The Contractor shall be responsible for obtaining a copy of all permits and for complying with any provisions or requirements that may relate to the conduct of construction activities.

1.06 WARRANTIES

- A. Warranties shall be in accordance with the General Conditions and Section 01780, Warranties and Bonds. Attachment 3 provides a specific, standalone warranty for the high-performance floor topping.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. All materials shall be suitably packaged to facilitate handling and protect against damage during transit and storage. Painted surfaces shall be protected against impact, abrasion, discoloration, and other damage. All painted surfaces which are damaged before acceptance of equipment shall be repainted to the satisfaction of Engineer.
- B. Each item, package, or bundle of material shall be tagged or marked as identified in the delivery schedule or on the Shop Drawings. Complete packing lists and bills of material shall be included with each shipment.

1.08 GENERAL REQUIREMENTS

- A. The Contractor shall obtain, maintain, and pay for all other permits, licenses and comply with building and construction codes and other authorizations required for the prosecution of the work, and bear the cost of all work performed in compliance with the terms and conditions of such permits, licenses, and authorizations, whether by himself or others.
- B. Staging Area: The Owner will allow the Contractor to store equipment, pipe, and other materials on selected property within the project limits. All other outside storage or office sites are to be obtained and paid for by the Contractor at no additional cost to the Owner.
- C. Protection of Adjacent Property: If adjacent property and existing drainage facilities, ditches, and canals are affected or endangered by any work done under this Contract, it shall be the responsibility of the Contractor to take whatever steps are necessary to protect the adjacent property and drainage systems and to contact the Engineer detailing the resolution of any problems.
- D. Taxes: The Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by him in accordance with the law of the place of the project.
- E. Labor, Materials, and Equipment:
 - 1. The Contractor shall provide competent, suitably qualified personnel to survey and layout the work and perform construction as required by the Contract Documents. The Contractor shall at all times maintain good discipline and order at the site. Except in connection with the safety or protection of persons or the work or property at the site or adjacent thereto, and except as otherwise indicated, all work at the site shall be performed during regular working hours, and the Contractor will not permit overtime work or the performance of the work on Saturday, Sunday, or any legal holiday without the Owner's written consent given after prior written notice to the Engineer.
 - 2. Unless otherwise shown, the Contractor shall furnish all materials, equipment, labor transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water and sanitary facilities, and all other facilities and incidentals necessary for the execution, testing, initial operation, and completion of the work.
 - 3. The Contractor shall be responsible for all materials furnished by him and shall replace at his/her own expense all such material found to be defective in manufacture or damaged in handling. This shall include the furnishing of all materials and labor required for the replacement of installed material

discovered defective before the final acceptance of the work.

F. Contractor Use of Premises:

1. The Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workmen to areas permitted by law, ordinances, permits, or the requirements of the Contract Documents, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment.
2. The Contractor shall not enter upon other private property for any purpose without first securing the permission of the property owner in writing and furnishing the Engineer with a copy of said permission. This requirement will be strictly enforced, particularly with regard to such vacant properties as may be utilized for materials storage.
3. The Contractor shall conduct his/her work in such a manner as to avoid damage to adjacent private or public property. Any damage to existing structures or work of any kind, including permanent reference markers or property corner markers, or the interruption of a utility service, shall be repaired or restored promptly at no additional expense to the Owner.
4. The Contractor shall preserve and protect all existing vegetation such as trees, shrubs, and grass on or adjacent to the site which do not reasonably interfere with the construction, as determined by the Engineer. The Contractor shall be responsible for all unauthorized cutting or damaging of trees and shrubs, including damage due to careless operation of equipment, stockpiling of materials, or tracking of grass by equipment. The Contractor shall be liable for, or shall be required to replace or restore at no additional expense to the Owner, all vegetation not protected or preserved as required herein that may be destroyed or damaged.
5. The Contractor will not be required to move or remove any utilities except as specifically required by the Drawings and Specifications.
6. During the progress of the work, the Contractor shall keep the premises free from accumulations of waste materials, rubbish, and other debris resulting from the work. At the completion of the work, the Contractor shall remove all waste materials, rubbish, and debris from and about the premises as well as all tools, appliances, construction equipment and machinery, and surplus materials, and shall leave the site clean and ready for occupancy by the Owner. The Contractor shall restore to their original condition those portions of the site not designated for alteration by the Contract Documents.
7. The Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall the Contractor subject any part of the work or adjacent property to stresses or pressures that will endanger it.

G. Unsuitable Material: All unsuitable materials found during excavation which are not suitable for backfill or bedding shall be completely removed and replaced with suitable soils, at no additional cost to the Owner, all as described in other sections of the Technical Specifications.

1.09 EQUIVALENT OR SOLE-SOURCE MATERIALS AND EQUIPMENT

A. Whenever a material or article is specified or described by using the name of a

proprietary product or the name of a particular manufacturer or vendor, the specified item mentioned shall be understood as establishing the type, function, and quality desired, unless specified in the plans and specifications as being necessary for the proper operation and function of the project. If so stated as a “sole-source” vendor and manufacturer, the Contractor shall match exactly the manufacturer, model, and type as shown in the plans. For materials not so stated, other manufacturers' products may be accepted provided sufficient information is submitted to allow Engineer to determine that the products proposed are equivalent to those named. The Engineer and Owner shall review and approve other manufacturer's products and/or services.

- B. Requests for review of equivalency will not be accepted from anyone except the Contractor.

1.10 ACCESS TO WORK AREAS

- A. The Owner will provide the access to the work areas. The Contractor shall confine his/her construction operations within the areas for buried utilities and pipelines, tanks, and pump stations indicated on the drawings, and shall use due care in placing construction tools, equipment, excavated materials, and pipeline materials and supplies, so as to cause the least possible damage to existing property and interference with plant operations.

1.11 NOTICES TO THE OWNER AND AUTHORITIES

- A. The Contractor shall notify the Owner and utilities when prosecution of the Work may affect them.
- B. Utilities, the Owner, and other concerned agencies shall be contacted at least 48 hours before cutting or closing streets or other traffic areas or excavating near underground utilities or pole lines.

1.12 CONNECTIONS TO EXISTING FACILITIES

- A. Unless otherwise specified or indicated, the Contractor shall make all necessary connections for all local trailers, offices, or other temporary facilities to existing facilities, such as electric, telephone, water, and sewer. In each case, the Contractor shall receive permission from the Owner and the owning utility before undertaking connections, at no additional cost to the Owner. The Contractor shall protect facilities against deleterious substances and damage.
- B. Connections to existing facilities that are in service shall be thoroughly planned in advance, and all required equipment, materials, and labor shall be on hand at the time of undertaking the connections. Work shall proceed continuously (around the clock) if necessary to complete connections in the minimum time. Operation of valves or other appurtenances on existing utilities, when required, shall be by or under the direct supervision of the owning utility.

1.13 UNFAVORABLE CONSTRUCTION CONDITIONS

- A. During unfavorable weather, wet ground, or other unsuitable construction conditions, the Contractor shall confine his/her operations to work, which shall not be affected adversely by such conditions. No portion of the Work shall be constructed under conditions, which would adversely affect the quality or

efficiency thereof, unless special means or precautions are taken by the Contractor to perform the work in a proper and satisfactory manner.

- B. If the Contractor must discontinue work until the weather conditions improve, make all necessary provisions for public safety, such as covering all open excavations, providing barricades and orange construction netting, installing flashing lights, moving equipment back to the Contractor's yard, and other provisions, similar to closing the site for nighttime.

1.14 CLEANING UP

- A. The Contractor shall keep the premises free at all times from accumulations of waste materials and rubbish. The Contractor shall provide adequate trash receptacles about the site and shall promptly empty the containers when filled.
- B. The Contractor shall stockpile all construction materials in a neat and workman-like manner. The Contractor shall promptly remove splattered concrete, asphalt, oil, paint, corrosive liquids, and cleaning solutions from surfaces to prevent marring or other damage.
- C. Volatile wastes shall be properly stored in covered metal containers and removed daily.
- D. Wastes shall not be buried or burned on the site or disposed of into storm drains, sanitary sewers, streams, or waterways. All wastes shall be removed from the site and disposed of in a manner complying with local ordinances and anti-pollution laws.
- E. The accumulation of dirt, stones, and other excavated materials away from trenches shall be controlled. All dirt shall be cleaned up and nearby paved areas swept before shutdown of daily operations, or as directed by the Engineer.
- F. Adequate cleanup will be a condition for recommendation of progress payment applications.
- G. The Owner shall reserve the right to limit the movement of construction crews when an area is not acceptably cleaned. Delays caused to the Contractor because of the Contractor's negligence in keeping the construction areas cleared shall be absorbed by the Contractor at no additional costs to the Owner in time or money.

1.15 WORKING HOURS

- A. Workdays shall consist of 10 hours maximum, between 7:00 am and 7:00 pm except as specifically arranged with the County during tipping floor preparation and installation work. Additional working hours and days will be authorized by the County for work on the tipping floor, after the Contractor provides a detailed installation schedule that minimizes outages and maintains transfer station operations.
- B. During floor and driveway demolition and reconstruction the Contractor may work 24 hours a day and on Sundays. The tipping floor will free of garbage Saturdays starting at 6 PM until Monday morning at 6 AM, when work on the floor is pre-scheduled to be performed by the Contractor.
- C. Except as noted above, work under this contract shall not be prosecuted on Sundays or on state and/or national holidays, except in time of emergency, and then only under written permission from the Owner who shall be the sole judge as to the

urgency of that situation. On weekdays and Saturdays, the workday shall be limited to daylight hours unless the Contractor provides a suitable light plant/tower(s).

- D. Should the Contractor deem it necessary to work on Sundays, holidays, or beyond daylight hours in order to comply with his construction schedule or because of an emergency, the Contractor shall request permission of the Owner to do so. If, in the opinion of the Owner, the need is bona fide, he will authorize the Contractor to work such hours as may be necessary.

1.16 ORDINANCES, REGULATIONS, STANDARDS, AND CODES

- A. Reference in the specifications to known standards, codes, specifications, etc., promulgated by professional or technical associations, institutions, and societies, is intended to mean the latest edition of each such standard adopted and published as of the date of the Advertisement for Bid on this project except where otherwise specifically indicated. Each such standard referred to shall be considered a part of the specifications to the same extent as if reproduced herein in full. The following is a list of applicable documents that apply to this contract.

1.17 REIMBURSEMENT FEES

- A. The following hourly rates shall be applied as the Owner's reimbursement of the Engineer's fee to be paid by the Contractor for expenses the Engineer's additional work as a result of unscheduled work, working beyond the hours per day, days per week and working beyond the Contract Time for Substantial and Final Completion listed in the Contract Documents.

1.	Senior Field Representative (Construction):	\$105
2.	Senior Construction Administrator:	\$160
3.	Engineering Consultant (Project Manager):	\$185
4.	Senior Administrative Assistant:	\$ 95

1.18 BID FORM DETAILS

1. Item No. 1, Mobilization/Demobilization/Cleanup—Payment for the lump-sum price bid in the Bid Schedule shall be full compensation for furnishing all labor, materials, and equipment required to do all related work of this Contract including insurance, bonds, submittals, work schedule, as-built information, health and safety, daily and final cleanup, and site demobilization. Partial payments shall be based on the breakdown loaded to the schedule activities. This item shall not exceed 10% of the total bid amount and payable 50% upon mobilization.
2. Item No. 2, Demolition—Payment for the lump-sum price bid in the Bid Schedule shall be full compensation for furnishing all labor, materials, and equipment required to do all related work of this Contract to demolish the existing facilities in preparation of new construction including concrete tipping floor, entrance and driveways, tipping floor drains, leachate management system, and related electrical conduits and wiring. Providing maintenance of traffic and signalmen during demolition activities when access to the tipping floor is impacted; loading, hauling, and legal disposal (including disposal fees) of all demolition debris.

3. Item No. 3, Leachate Management System—Payment for the lump-sum price bid in the Bid Schedule shall be full compensation for furnishing all labor, materials, and equipment required to do all related work of this Contract for the installation of the leachate management system including:
 - a. *Installing a new solids interceptor tank.*
 - b. *Installing a new pump station, pumps, controls, piping, valves, pipe stands, and related items.*
 - c. *Installing a new 8,700-gallon high-density crosslinked polyethylene (XLPE) storage tank.*
 - d. *Providing related site work, over excavation of existing soils, compaction, and backfill with structural fill and geogrid.*
 - e. *Dewatering.*
 - f. *Performing concrete ballasting.*
 - g. *Performing related electrical work.*
 - h. *Field adjusting to match actual conditions.*
 - i. *Providing equipment certification, testing, start-up, troubleshooting, and Owner training as indicated in the Contract Documents.*
4. Item No. 4, Tipping Floor Repairs – Concrete—Payment for the unit price bid in the Bid Schedule shall be full compensation for furnishing all labor, materials, and equipment required to do all related work of this Contract for repairing the existing tipping floor:
 - a. *Preparing remaining concrete surface after removing damaged concrete. Demolishing existing floor is included in Bid Item 2.*
 - b. *Placing reinforced concrete to level the demolished floor to within 1.5 to 2 inches (see drawings of limits of topping thickness) of the final elevations to prepare for placing the high-performance topping. The high-performance topping is included in Bid Item 5.*
 - c. *Field adjusting to match actual conditions.*
 - d. *Conducting concrete testing and finishing.*
 - e. *Performing the work in two or more phases.*
 - f. *Providing maintenance of traffic and signalmen.*
5. Item No. 5, Tipping Floor High-Performance Topping—Payment for the lump-sum price bid in the Bid Schedule shall be full compensation for furnishing all labor, materials, and equipment required to do all related work of this Contract for the repair of the existing tipping floor:
 - a. *Preparing repaired concrete surface performed under Bid Item 4.*
 - b. *Placing high-performance topping.*
 - c. *Placing wear indicators.*
 - d. *Testing and finishing.*
 - e. *Field adjusting to match actual conditions.*
 - f. *Performing the work in two or more phases.*
 - g. *Providing maintenance of traffic and signalmen.*
 - h. *Providing extended warranty.*
6. Item No. 6, Trench Drain System—Payment for the lump-sum price bid in the Bid Schedule shall be full compensation for furnishing all labor,

materials, and equipment required to do all related work of this Contract for the installation of the trench drain system including:

- a. *Saw cutting of tipping floor.*
- b. *Removing concrete.*
- c. *Installing 3-inch and 6-inch polyvinyl chloride (PVC) drain lines and connections, excavation, backfill, and compaction.*
- d. *Protecting existing cleanouts, bollards, and other items identified by the Engineer or replacing with like items.*
- e. *Installing piping connections to trench drain and existing piping.*
- f. *Providing trench drain products and grates.*
- g. *Performing concrete repairs and encasement.*
- h. *Field adjusting to match actual conditions.*
- i. *Reuse existing drain cleanouts (DCO) unless damaged or removed during demolition. If so, replace with similar heavy-traffic rated cleanouts.*
- j. *Testing of operations.*

7. Item No. 7, Entrance and Exit Driveways Concrete Paving—Payment for the lump-sum price bid in the Bid Schedule shall be full compensation for furnishing all labor, materials, and equipment required to do all related work of this Contract for the installation of the driveways including:

- a. *Saw-cutting existing pavement.*
- b. *Installing subgrade, geogrid, concrete pavement, excavation, backfill, and compaction.*
- c. *Dowling of driveway reinforcing steel to building foundation.*
- d. *Field adjusting to match actual conditions.*
- e. *Demolishing existing driveways is included in Bid Item 2.*

8. Item No. 8, Hopper Demolition and Repairs—Payment for the lump-sum price bid in the Bid Schedule shall be full compensation for furnishing all labor, materials, and equipment required to do all related work of this Contract for the repair of the Hopper including:

- a. *Saw-cutting of concrete and steel hopper cladding.*
- b. *Repairing existing concrete surfaces.*
- c. *Fabricating and installing steel hopper cladding.*
- d. *Field adjusting to match actual conditions.*
- e. *Loading, hauling, and legal disposal (including disposal fees) of all demolition debris. Demolishing the existing hopper is not included in Bid Item 2.*

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION