

TECHNICAL SPECIFICATIONS
FOR
MID COUNTY TRANSFER
STATION CEMENT WALL

OWNER:
CHARLOTTE COUNTY, FLORIDA



19765 KENILWORTH BOULEVARD
PORT CHARLOTTE, FL 33954

WEC JOB No: CHA091-AAAA350-25014712

by



MARCH 2026

Engineer's certification

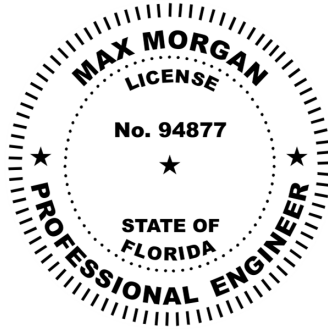
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Max Morgan, Professional Engineer,
State of Florida, License No. 94877

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SECTION 01 11 00

SUMMARY OF WORK

PART 1 - GENERAL

1.1 Summary

- A. The work includes construction of a new 6-foot-tall concrete masonry unit (CMU) border wall and all associated site modifications required to complete the installation. The scope covers removal of existing structures, selective demolition of existing pavements, preparation of subgrade, installation of new foundations and wall components, and restoration of disturbed surfaces.
- B. Provide all labor, materials, equipment, and services necessary to complete the project as shown on the drawings and described in the specifications.
- C. Coordinate all disciplines and ensure work is executed in the proper sequence to maintain schedule and quality.

END OF SECTION

SECTION 01 22 13

UNIT PRICE MEASUREMENT

PART 1 - GENERAL

1.1 Scope of Each Pay Item

- A. Each unit-price item includes all labor, materials, equipment, tools, transportation, and incidentals necessary to complete the work associated with that item. This includes preparation, installation, cleanup, and compliance with applicable codes and specifications. Work not specifically listed as a separate pay item is considered incidental and included in the related unit price.

1.2 Verification and Documentation

- A. Field measurements are verified jointly by the contractor and the owner's representative. Documentation such as sketches, measurement logs, and photographs may be required to support quantity verification. Discrepancies must be resolved before payment is processed.

1.3 Adjustments and Allowances

- A. Unit-price quantities may be adjusted based on actual field conditions, changes in scope, or unforeseen conditions. Adjustments follow the procedures outlined in the contract and require approval before additional work is performed. No separate payment will be made for rework or corrective actions resulting from non-conforming work.

1.4 Payment Conditions

- A. Payment is made only for completed and accepted work that meets specification requirements. Partial or incomplete work is not eligible for payment unless specifically authorized. Unit-price payments include all overhead, profit, and incidental costs associated with performing the work.

END OF SECTION

SECTION 01 30 00

ADMINISTRATIVE REQUIREMENTS

PART 1 – GENERAL

1.1 Section Includes

- A Meetings
- B Construction progress documentation
- C Submittals
- D Record documents

1.2 Preconstruction Meeting

- A. The COUNTY will schedule a preconstruction meeting prior to beginning the Work to review shop drawing procedures, submittal requirements, and construction administration requirements (project coordination and communication). The CONTRACTOR shall bring to the preconstruction meeting the proposed construction schedule, which will be reviewed with the COUNTY during the meeting.

1.3 Progress Meetings

- A. The frequency of progress meetings shall be determined during the preconstruction meeting. As a minimum, progress meetings shall be held once per week during construction.
- B. The CONTRACTOR and COUNTY shall attend the progress meetings.

1.4 Record Drawings

- A. As the Work progresses, the CONTRACTOR shall be responsible for recording information on the approved Contract Documents concurrently with construction progress. This field copy shall be maintained in the field office in clean and legible condition. It shall be available for inspection by the COUNTY or ENGINEER at any time and its completeness and accuracy will be used in evaluation of applications for payment.
- B. Mark on the Contract Drawings all changes in direction and location of structure, piping, equipment, electrical, and mechanical work.
- C. If requested, mark on the Specifications the manufacturer, trade name, catalog, and supplier of each product installed, and mark changes made by Change Order or Field Order.

- D. All Record Drawings shall be prepared by CONTRACTOR in ACAD format using base drawings provided by the COUNTY. As-built information shall be field verified, measured, certified, signed and sealed by the CONTRACTOR's licensed Surveyor who will be responsible for the accuracy of all dimensions and elevations.
- E. The as-built information is to include, but not be limited to, the following:
- I. Horizontal locations and vertical elevations for all installed utility lines and storm structures including but not limited to pipes, manholes, valves, inlets and cleanouts, etc.
 - II. Horizontal and vertical data for any construction that deviates from the approved Engineering drawings.
 - III. Where the plans contain specific horizontal location data, such as station and offset, the as-built drawings are to reflect the actual horizontal location.
 - IV. Where the plans contain specific vertical elevation data, the as-built drawings are to reflect the actual measured vertical elevation.
 - V. Deliver to COUNTY REPRESENTATIVE three (3) sets of Record Drawings signed and sealed by CONTRACTOR's surveyor plus one electronic copy (ACAD format) of the drawings. Also deliver the original red-line field copy to the COUNTY REPRESENTATIVE.

END OF SECTION

SECTION 01 33 00

SUBMITTALS

PART 1 – GENERAL

1.1 Construction Schedules

- A The CONTRACTOR shall submit two copies of Progress Schedules indicating the starting and completion dates of the various stages of the work. The proposed Progress Schedules shall be submitted to the COUNTY REPRESENTATIVE prior to the preconstruction meeting. The CONTRACTOR shall distribute copies of the Progress Schedules during the preconstruction meeting for discussion. The Progress Schedules shall be updated by the CONTRACTOR and submitted to the COUNTY REPRESENTATIVE, as a part of applications for progress payments, through completion of the Work. Failure to update progress schedule may be the basis for rejection of applications for progress payments.

- B The CONTRACTOR, if applicable, shall submit two copies of Schedules of Value of the work to the COUNTY REPRESENTATIVE. A preliminary Schedule of Values shall be submitted by the CONTRACTOR prior to the preconstruction meeting. A final Schedule of Values, presented in sufficient detail to serve as the basis for payments during construction, shall be submitted to the COUNTY REPRESENTATIVE for approval at least ten (10) days prior to submitting the first Application for payment.

1.2 Applications for Payment

- A. The CONTRACTOR shall submit Applications for payment to the COUNTY REPRESENTATIVE in accordance with the provisions of the General Conditions and in accordance with COUNTY requirements. Applications for Payment shall be made on forms provided by the COUNTY.

1.3 Shop Drawings, Product Data and Samples

- A. The CONTRACTOR shall submit shop drawings, product data and samples, as required by the individual Specification Sections, to the COUNTY REPRESENTATIVE.

- B. Shop drawings shall be presented in a clear and thorough manner. Details shall be identified by reference to Contract Drawing Number and Detail and Contract Specification Section and Page Number.

- C. The product data shall be presented in a clear and thorough manner identified the same as the shop drawings. Included with the information shall be performance characteristics and capacities depicting dimensions and clearances required. The manufacturer's standard schematic drawings and diagrams shall be modified to delete information which is not applicable to the work.

Manufacturers' standard information shall be supplemented to provide information specifically applicable to the work.

- D. Samples shall be of sufficient size and quantity to clearly illustrate functional characteristics of the product with integrally related parts and attachment devices depicting full range of color, texture and pattern.
- E. The CONTRACTOR shall make submittals in accordance with the approved schedule, and in such sequence as to cause no delay in the work or in the work of any CONTRACTOR. No damages will be awarded or extension of time granted due to the shop drawing and product data review process.
- F. The CONTRACTOR shall submit an entire package of shop drawings and product data information for major items of work so that the COUNTY REPRESENTATIVE can review the package as a unit.
- G. The required submittals will be Digital if approved by the COUNTY of Charlotte, otherwise there shall be six (6) copies of each shop drawing or product data information sheet. Submittals shall contain the following information:
 - I. Field dimensions clearly identified as such.
 - II. Relation to adjacent or critical features of the work or materials.
 - III. Applicable standards, such as ASTM or Federal Specification Numbers.
 - IV. Identification of deviations from Contract Documents.
 - V. Identification of revisions on re-submittals.
 - VI. CONTRACTOR'S stamp indicating as a minimum the Project Title, Date of Submission, Date of Previous Submission, and Contract Specification Section Reference which shall be initialed or signed, certifying the review and approval of submittal per General Conditions, verification of products, field measurements and field construction criteria, and coordination of the information within the submittal with requirements of the work and of Contract Documents.
- H. The ENGINEER shall affix a stamp and initials or signature and indicate confirmation or requirements for re-submittal. The COUNTY REPRESENTATIVE shall return to the CONTRACTOR three (3) copies of the product data information for distribution or for resubmission.
- I. The CONTRACTOR shall make all corrections or changes in the submittals required by the COUNTY REPRESENTATIVE and resubmit. The CONTRACTOR shall indicate any changes which have been made other than those requested by the COUNTY REPRESENTATIVE.

1.4 Specification Section Requirements

- A. Miscellaneous schedules, field reports, test reports, affidavits, certificates, permits, agreements and other items identified in the Technical Specification Sections, or as requested by the COUNTY REPRESENTATIVE. As a minimum, these submittals should be identified with the Project File, Date of Submission, and Contract Specification Section Reference.

1.5 Manufacturer's Operation and Maintenance Data

- A. The CONTRACTOR shall furnish seven (7) copies of all operation and maintenance data required by the various Technical Sections. Prior to 50 percent completion of the Project, the CONTRACTOR shall have submitted one (1) acceptable copy to the COUNTY REPRESENTATIVE.
- B. The operation and maintenance data shall be bound in a suitable three-ring binder(s). A Table of Contents shall be provided in the front of each binder to list the various sections of the Manual.
- C. The information to be provided in each section for each piece of equipment and project component shall include but not be limited to: detailed equipment drawings; sections cut through all of the major equipment and sub-assemblies; installation and operational procedures; complete wiring and piping schematics; lubrication materials and procedures; maintenance procedures; and parts lists complete enough to permit identification of parts by nomenclature, number and use.
- D. At the front of each section a maintenance schedule shall be provided for each piece of equipment in the section. The schedule shall display the daily, weekly, monthly, semi-annual, annual or fraction thereof, lubrication and preventative maintenance required to meet warranty conditions and the manufacturer's recommendations for optimum performance and life of the unit. A common schedule format is to be developed and used for all the sections.

END OF SECTION

SECTION 01 43 00

QUALITY CONTROL

PART 1 - GENERAL

1.1 Description of Requirements

A. Definitions

- I. Specific quality control requirements for the work are indicated throughout the Contract Documents. Quality control provisions for manufactured products are specified in individual work sections and in other related sections; and are not repeated in this section. The requirements of this section are primarily related to the performance of the work beyond the furnishing of manufactured products. The term "Quality Control" includes, but is not necessarily limited to, inspection and testing and associated requirements. This section does not specify or modify the COUNTY REPRESENTATIVE's duties relating to Contract quality review and observation.

1.2 Quality Assurance

A. General Workmanship Standards:

- I. Except as more definitively specified in other sections, comply with the recognized workmanship quality standards within the industry as applicable to each unit of work, including ANSI standards where applicable. It is a requirement that each category of tradesman or installer performing the work be prequalified, to the extent of being familiar with the applicable and recognized quality standards for his category of work, and being capable of workmanship complying with those standards.
- II. Colored concrete must be installed by a qualified decorative concrete installer and finisher

1.3 Submittals

- A. Refer to Section 01300 for the general submittal requirements applicable to inspection and test reports, project photographs, damage surveys, quality control samples, maintenance agreements, guaranties, warranties, and similar documentation of quality compliances as required.
- B. Copies and Distribution: Where inspection and test reports and certifications are required by governing authorities, provide additional copies as required, and, where required, send copies directly from inspection or testing agency to governing authority.

1.4 Product Delivery-Storage-Handling

- A. Materials, supplies, and equipment delivered to the site shall be inspected for damage, unloaded, and stored with a minimum of handling. Delivered items shall not be stored directly on the ground. Handle, store and protect materials and products, including fabricated components, by methods and means recommended by the manufacturer which will prevent damage, deterioration and losses (and resulting delays), thereby ensuring highest quality results as the performance of the work progresses. Control delivery schedules to minimize unnecessary long-term storage at the project site prior to installation. Periodically exercise equipment stored in accordance with the manufacturer's recommendations.
- B. The COUNTY REPRESENTATIVE may refuse to accept, or sample for testing, materials, supplies, or equipment that have been improperly or unsuitably stored.
- C. Materials, supplies or equipment found defective or unfit for use shall not be incorporated in the work and shall immediately be removed from the construction or storage site and replaced with new materials, supplies or equipment by the CONTRACTOR at no additional cost to the COUNTY.
- D. If, instead of requiring removal and replacement of defective items, the COUNTY (and, prior to approval of final payment) prefers to accept the defective item(s), he may do so. In such case, if acceptance occurs prior to approval of final payment, a change order shall be issued incorporating the necessary revisions in the Contract Documents, including appropriate reduction in the Contract price; or if the acceptance occurs after approval of final payment, an appropriate amount shall be paid by the CONTRACTOR to the COUNTY.

1.5 Responsibility for Inspections and Tests

- A. CONTRACTOR'S Responsibility:
 - I. It will be the CONTRACTOR's responsibility to employ and pay for the services of certified independent testing laboratories. In addition, the CONTRACTOR shall pay for all retests required due to failure to meet specifications.
 - II. The certified independent testing laboratories qualifications, test procedures, forms and quality control program shall be submitted to the COUNTY REPRESENTATIVE for review and approval.

III. No failure of test agencies, whether engaged by the COUNTY or CONTRACTOR, to perform adequate inspections or tests or to properly analyze or report results, shall relieve the CONTRACTOR of responsibility for the fulfillment of the requirements of the Contract Documents. It is recognized that the required inspection and testing program is intended to assist the CONTRACTOR, COUNTY REPRESENTATIVE and governing authorities in the nominal determination of probable compliances with requirements for certain crucial elements of work. The program is not intended to limit the CONTRACTOR in his regular quality control program, as needed for general assurance of compliances.

B. Coordination with COUNTY's Agencies:

I. Afford access and reasonable time in the construction sequence for COUNTY's inspections and tests to be performed. Cooperate with agencies and provide incidental labor and services needed for the removal and delivery of test samples, and for inspections and taking measurements. Provide patching and restoration services where test samples have been removed.

C. Test Agency Responsibilities:

I. Test agencies, regardless of whether engaged by the COUNTY or CONTRACTOR, are not authorized to change or negate the requirements of the Contract Documents. Each agency shall coordinate its assigned work with the construction schedule as maintained by the CONTRACTOR and shall perform its work promptly so as not to delay the work avoidably. Observations (by agencies) having a bearing on the work shall be reported to the COUNTY REPRESENTATIVE, in the most expeditious way possible, and shall be recorded in writing by the agency. Agency personnel shall not interfere with or assume the duties of the CONTRACTOR.

D. Quality Control Records:

I. CONTRACTOR shall keep a quality control report for each helical anchor that is installed. Copies of the reports shall be delivered to the ENGINEER and COUNTY at each progress meeting and upon request. The record information shall at a minimum be as shown on the example Helical Anchor Installation Quality Control Report at the end of this Section.

PART 2 – PRODUCTS

2.1 Equipment and Materials

- A. All equipment and materials furnished under these specifications shall be new and unused.

PART 3 - EXECUTION

3.1 Installation

A. Pre-Installation Conferences:

- I. Well in advance of the installation of every major unit of work which requires coordination with other work, meet at the project site with installers and representatives of manufacturers and fabricators who are involved in or affected by the unit of work, and in its coordination or integration with other work which has preceded or will follow. Advise COUNTY REPRESENTATIVE of scheduled meeting dates. At each meeting, review the progress of other work and preparations for the particular work under consideration including, but not limited to, the requirements of the Contract Documents, options, related change orders, purchases, deliveries, shop drawings, product data, quality control samples, possible conflicts, compatibility problems, time schedules, weather limitations, temporary facilities, space and access limitations, structural limitations, governing regulations, safety, inspection and testing requirements, required performance results, recording requirements, and protection. Record the significant discussions of each conference, and the agreements and disagreements, along with the final plan of action. Distribute record of meeting promptly to everyone concerned, including the COUNTY REPRESENTATIVE.
- II. The CONTRACTOR shall not proceed with the work if the associated pre-installation conference cannot be concluded successfully. Instigate actions to resolve impediments to the performance of the work and reconvene the conference at the earliest date feasible.

B. Installer's Inspection of Conditions:

- I. The CONTRACTOR shall require the Installer of each major unit of work to inspect the substrate to receive the work, and the conditions under which the work will be performed, and to report (in writing to the CONTRACTOR) unsatisfactory conditions. The CONTRACTOR shall not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.

3.2 Installation Quality Control

A. Manufacturers' Instructions:

I. Where installations include manufactured products, the CONTRACTOR shall comply with the manufacturer's applicable instructions and recommendations for installation, to whatever extent these are more explicit or more stringent than applicable requirements indicated in the Contract Documents.

B. The CONTRACTOR shall inspect each item of materials or equipment immediately prior to installation and reject damaged and defective items.

I. The CONTRACTOR shall provide attachment and connection devices and methods for securing work properly as it is installed; true to line and level, and within recognized industry tolerances if not otherwise indicated. Allow for expansion and building movements. Provide uniform joint widths in exposed work, organized for best possible visual effect. Refer questionable visual effect choices to ENGINEER for final decision.

II. The CONTRACTOR shall recheck measurements and dimensions of the work, as an integral step of starting each installation.

III. The CONTRACTOR shall install work during conditions of temperature, humidity, exposure, forecasted weather, and status of project completion which will ensure the best possible results for each unit of work, in coordination with the entire work. Isolate each unit of work from incompatible work, as required to prevent deterioration.

IV. The CONTRACTOR shall coordinate enclosure (closing-in) of work with required inspections and tests, to avoid the necessity of uncovering work for that purpose.

C. Mounting Heights:

I. Except as otherwise indicated, the CONTRACTOR shall mount individual units of work at the industry-recognized standard mounting heights and in compliance with Americans with Disabilities Act (ADA) requirements, for the applications indicated. Refer questionable mounting height choices to the COUNTY REPRESENTATIVE for final decision.

D. Adjust, clean, lubricate, restore marred finishes, and protect newly installed work, to ensure that it will remain without damage or deterioration during the remainder of the construction period.

END OF SECTION

SECTION 01 57 00

CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 – GENERAL

1.1 Land for Contractor's Use

- A. Site Access and Parking - The Contractor shall maintain driveways a minimum of 15 feet wide between and around combustible materials in storage and mobilization areas.
- B. The Contractor shall maintain traffic areas free as possible of excavated materials, construction equipment, products and debris.
- C. The Contractor shall not utilize existing parking facilities for construction personnel or for Contractor's vehicles or equipment, unless written permission from OWNER of parking facility is obtained.
- D. Private or Public Roads, Sidewalks and Parking Areas - The Contractor shall at all times provide emergency access to property in the vicinity of the construction for police and fire equipment, ambulances or other emergency vehicles to protect life, health and property.
- E. Contractor is responsible for constructing project in a sequence which will allow clear access to all businesses and residences within and in the vicinity of the Construction Area.
- F. Contractor is responsible for constructing project in a sequence which will allow the general public to utilize sections of park not actively being worked in.

1.2 Traffic Maintenance and Control

- A. Road Closing - No Street, road or section thereof shall be closed to through traffic unless otherwise provided for on the Plans, Specifications, or authorized by the agency with jurisdiction over the roads. Prior to the closing of a street, road, or section thereof, the Contractor shall provide the ENGINEER with a copy of a detour Plan approved by the agency having jurisdiction over the roads.
- B. In the event roads or streets are to be closed, the Contractor shall notify the local fire department, police department, local road authority, ambulance and emergency services, and public school system daily as to what streets will be partly blocked or closed, the length of time the streets will be blocked or closed and when the streets will be reopened to traffic.

- C. Maintaining Traffic - The Contractor shall provide Maintenance of Traffic for all area where construction will impede the normal flow of traffic in compliance with the Current FDOT Design Standards 600 Series.
- D. Existing Signs - No stop sign, traffic control or warning device shall be taken down until the agency having jurisdiction over the roads has been notified and arrangements for the immediate reinstallation have been made. The Contractor shall provide temporary signs, traffic control devices, warning devices, or watchmen continuously from the time the item is removed until it is reinstalled. All signs removed shall be replaced with signs meeting requirements of the agency having jurisdiction over the roads.

1.3 Temporary Utility Services

- A. ElectriCOUNTY and Lighting - The Contractor shall be responsible for and pay all costs for the installation and removal of circuit and branch wiring, with area distribution boxes located so that power and lighting is available throughout the construction by the use of construction-type power cords and shall pay all costs of electrical power used.
- B. Electrical wiring and distribution shall conform to the National Electrical Code and all applicable national, state and local codes.
- C. Use of Water - The Contractor shall acquire any and all permits, post any bonds and pay all fees required by the COUNTY of Charlotte's Utility Department prior to using any hydrant, existing water meter or temporary water meter as the source of water, and pay the COUNTY's Utility Department directly for any water used throughout the construction and during the initial 90-day landscape establishment period. Upon completion of the 90-day landscape establishment period and final acceptance of the project by the Owner, the meter(s) will be transferred in the name of the COUNTY of Charlotte. During the optional 9-month addition establishment period, the cost of water will be paid by the COUNTY of Charlotte.
- D. Sanitary Provisions - The Contractor shall be responsible for installation, maintenance and removal of temporary sanitary facilities for use of construction personnel. All rules and regulations of the State and local health officials shall be observed, with precautions taken to avoid creating unsanitary conditions.

END OF SECTION

SECTION 01 71 13

MOBILIZATION

PART 1 - GENERAL

1.01 Mobilization

A. Mobilization shall include the obtaining of all permits; moving onto the site of all equipment; temporary buildings and other construction facilities; essential personnel; and implementing security requirements; all as required for the proper performance and completion of the WORK. Mobilization shall include the following items:

1. Moving on to the site of all Contractor's equipment required for first month operation
2. Installing temporary construction power, wiring, and lighting facilities (if required).
3. Developing construction of water supply.
4. Providing all on-site communication facilities, including cellular phones.
5. Providing on-site sanitary facilities and potable water facilities.
6. Arranging for and erection of Contractor's work, site access, and storage.
7. Obtaining all required permits.
8. Having all OSHA required notices and establishment of safety programs.
9. Having the Contractor's Superintendent at the job site full time.
10. Submitting initial submittals.
11. Project identification and signs (as required by general provisions).
12. Demobilization at the completion of construction

Item: W-1

END OF SECTION

SECTION 01 77 00

CONTRACT CLOSEOUT

PART 1 - GENERAL

1.1 Contract Closeout

- A. Complete punch list items, submit warranties, as built documents, and operation manuals.
- B. Verify final invoices and payments
- C. Remove temporary facilities and restore affected areas.
- D. Obtain final inspections and approvals required for project completion.

END OF SECTION

SECTION 02 41 00

DEMOLITION

PART 1 – GENERAL

1.1 Summary

A. This Section includes demolition and removal of the following:

1. Fence
2. Existing Pavement
3. Protecting existing trees, shrubs, groundcovers, plants, and grass to remain.
4. Protecting existing utilities and concrete paving.
5. Clearing and grubbing.
6. Temporary erosion and sedimentation control measures.

1.2 Definitions

- A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or recycled.
- B. Remove and Salvage: Detach items from existing construction and deliver them to Owner.
- C. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or recycled.

1.3 Materials Ownership

- A. Except for stripped topsoil or other materials indicated to remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.4 Quality Assurance

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI A10.6 and NFPA 241.

1.5 Project Conditions

- A. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. Hazardous materials will be removed by Owner before start of the Work.
 - 2. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Engineer and Owner. Hazardous materials will be removed by Owner under a separate contract.
- B. Storage or sale of removed items or materials on-site is not permitted.
- C. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- D. Salvageable Improvements: Carefully remove items indicated to be salvaged and store them on Owner's premises where indicated.
- E. Utility Locator Service: Notify utility locator service to identify utilities for area where Project is located before site clearing.
- F. Do not commence site-clearing operations until temporary erosion and sedimentation control measures are in place.

1.6 Coordination

- A. Arrange demolition schedule so as not to interfere with on-site operations.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 Examination

- A. Survey existing conditions and correlate with requirements indicated to determine site demolition required.
- B. Review Project Record Documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.
- C. Inventory and record the condition of items to be removed and salvaged.
- D. When unanticipated mechanical, electrical, or structural elements are encountered, investigate and measure the nature and extent of the element. Promptly submit a written report to Engineer

3.2 Preparation

- A. Removed and Salvaged Items: See Section 02 42 00
- B. Protect and maintain benchmarks and survey control points from disturbance during construction.
- C. Locate and clearly flag trees and vegetation to remain or to be relocated.
- D. Protect existing site improvements to remain from damage during construction.
 - 1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.3 Temporary Erosion and Sedimentation Control

- A. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.
- B. Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
- C. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.5 Protection

- A. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during demolition. When permitted by Engineer, items may be removed to a suitable, protected storage location during demolition and reinstalled in their original locations after demolition operations are complete.
- B. Temporary Protection: Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction and as indicated. Comply with requirements in Division 1 Section "Temporary Facilities and Controls."
 - 1. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent structures to remain.

3.6 Demolition, General

- A. General: Demolish indicated existing fencing and indicated pavement completely. Use methods required to complete the Work within limitations of governing regulations.

3.7 Site Restoration

- A. Site Grading: Uniformly rough grade area of demolished construction to a smooth surface, free from irregular surface changes. Provide a smooth transition between adjacent existing grades and new grades.

3.8 Disposal

- A. Disposal: Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
- B. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities.

3.9 Repairs

- A. General: Promptly repair damage to adjacent construction caused by demolition operations.

3.10 Recycling Demolished Materials

- A. General: Separate recyclable demolished materials from other demolished materials to the maximum extent possible. Separate recyclable materials by type.
 - 1. Provide containers or other storage methods approved by Engineer for controlling recyclable materials until they are removed from Project site.
 - 2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - 3. Stockpile materials away from demolition area. Do not store within drip line of remaining trees.
 - 4. Store components off the ground and protect them from the weather.
 - 5. Transport recyclable materials off Owner's property and legally dispose of them.
- B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling building demolition materials shall accrue to Owner.

3.11 Disposal of Demolished Materials

- A. General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.12 Cleaning

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by structure demolition operations. Return adjacent areas to condition existing before structure demolition operations began.

END OF SECTION

SECTION 02 42 00

REMOVAL AND SALVAGE OF
CONSTRUCTION MATERIALS

PART 1 - GENERAL

1.1 Summary

A. This section includes the removal and salvaging of the following:

1. Fencing
2. Pavement Section

1.2 Materials Ownership

A. Except for materials indicated to remain Owner's property, removed materials shall become Contractor's property and shall be removed from Project site.

1.3 Salvageable Items

A. Carefully remove items indicated to be salvaged and store indicated by Owner

PART 3 EXECUTION

3.1 Examination

A. Review Project Record Documents of existing construction indicated to be salvaged by Owner. If upon discovery, existing conditions are not the same as indicated on the Record Documents, then the Owner will determine if it is worth salvaging.

B. Inventory and record the condition of items to be salvaged.

C. Removed and Salvaged Items: Comply with the Following:

1. Clean salvaged items of dirt and demolition debris
2. Pack or crate items after cleaning. Identify contents of containers.
3. Store items in secure area until delivery to Owner.
4. Transport items to Owner's storage area designated by Owner. Protect items from damage during transport and storage.

3.2 Recycling Demolished Materials: See Section 02 41 00

Item: W-2

END OF SECTION
SECTION 03 00 00

CONCRETE

PART 1 - GENERAL

1.1 Concrete Placement

- A. Place concrete in accordance with mix design requirements and environmental conditions.
- B. Deposit concrete in layers to avoid segregation and use vibration or consolidation methods to eliminate voids.
- C. Maintain continuous placement where possible to avoid cold joints unless otherwise detailed.

Item: W-3

END OF SECTION

SECTION 03 11 00

CONCRETE FORMING

PART 1 - GENERAL

1.1 Formwork

- A. Install formwork to the dimensions shown on the drawings, ensuring proper alignment, elevation, and bracing.
- B. Use form materials capable of producing the required finish and maintaining structural integrity during placement.
- C. Apply form release agents as needed and verify all embedded items, blockouts, sleeves, and anchors are correctly positioned before concrete placement.

Item: W-3

END OF SECTION

SECTION 03 20 00

CONCRETE REINFORCEING

PART 1 - GENERAL

1.1 Reinforcement

- A. Install ASTM standard reinforcing steel per plan, including bar sizes, spacing, laps, hooks, and supports.
- B. Secure reinforcement to maintain position during concrete placement, using chairs, ties, and spacers.
- C. Ensure proper cover requirements are met and reinforcement is clean, free of rust scale, oil, or debris.

Item: W-3

END OF SECTION

SECTION 03 35 00

CONCRETE FINISHING

PART 1 - GENERAL

1.1 Finishing

- A. Strike off and screed concrete to required elevations.
- B. Apply finishing techniques appropriate to the specified finish class (e.g., float finish, trowel finish, broom finish).
- C. Perform edge tooling, jointing, and surface treatments as required.
- D. Begin curing immediately after finishing using approved curing compounds, coverings, or moisture retention methods.

Item: W-6

END OF SECTION

SECTION 04 00 00

MASONRY

PART 1 - GENERAL

1.1 General Requirements

- A. Perform all masonry work in accordance with applicable codes, engineering drawings, and ASTM standards.
- B. Protect masonry from weather during construction and curing.
- C. Maintain clean work areas and coordinate inspections as required.

Item: W-5

END OF SECTION

SECTION 04 05 16

MASONRY GROUTING

PART 1 - GENERAL

1.1 Grouting

- A. Prepare cells designated for grouting by cleaning debris and ensuring proper consolidation paths.
- B. Use approved fine or coarse grout mixes depending on cell size and reinforcement density.
- C. Place grout in lifts per specification, consolidating each lift with mechanical vibration or rodding.
- D. Verify grout achieves full cell fill and encapsulates reinforcement without voids.

Item: W-5

END OF SECTION

SECTION 04 05 19

MASONRY ANCHORAGE AND REINFORCING

PART 1 - GENERAL

1.1 Reinforcing

- A. Install horizontal and vertical reinforcement per plans, including bar sizes, spacing, laps, and hooks.
- B. Place reinforcement in clean, unobstructed cells with required clearances and supports.
- C. Install masonry anchors, ties, and connectors to secure walls to adjacent structural elements.
- D. Ensure all reinforcement is properly tied, supported, and positioned prior to grouting.

Item: W-5

END OF SECTION

SECTION 04 05 23.13

MASONRY CONTROL AND EXPANSION JOINTS

PART 1 - GENERAL

1.1 Expansion and Control Joints

- A. Install control joints every 25' as shown on drawings to manage shrinkage and thermal movement.
- B. Use specified joint materials, including backer rods and sealants, to maintain flexibility and weather resistance.
- C. Ensure joints are clean, properly sized, and continuous through the full wall thickness.

Item: W-5

END OF SECTION

SECTION 04 05 16

MASONRY CAVITY DRAINAGE, WEEPHOLES, AND VENTS

PART 1 - GENERAL

1.1 Drainage and Weepholes

- A. Install weep holes at the base of cavity walls at 64" OC max.
- B. Use 3" diameter SCH.80 PVC to ensure proper drainage.
- C. Verify that flashing, cavity clearances, and drainage paths are unobstructed and functional.

Item: W-5

END OF SECTION

SECTION 04 22 00

CONCRETE UNIT MASONRY

PART 1 - GENERAL

1.1 CMU

- A. Construct CMU walls using specified block units, mortar type, and bond pattern.
- B. Ensure units are clean, properly aligned, and laid to required dimensions and tolerances.
- C. Install all embedded items, anchors, and accessories as shown on the drawings.
- D. Maintain uniform joint thickness and tooling consistent with specified finish requirements.

Item: W-5

END OF SECTION

SECTION 09 24 23

CEMENT STUCCO

PART 1 - GENERAL

1.1 General

- A. Perform all work in accordance with applicable codes, manufacturer instructions, and project specifications.
- B. Protect adjacent surfaces, landscaping, and finished materials during application.
- C. Maintain clean work areas and dispose of waste materials properly.
- D. Coordinate inspections and ensure compliance with quality standards throughout installation.

1.2 Installation

- A. Install cement based 5/8" 2-coat plain finish stucco in accordance with project drawings and applicable ASTM standards.
- B. Prepare substrates by cleaning, repairing defects, and installing required lath, trims, control joints, and accessories.
- C. Apply scratch, and finish coats to specified thicknesses, ensuring proper curing between coats.
- D. Maintain uniform texture, color, and finish across all surfaces.
- E. Protect adjacent materials and ensure proper moisture curing to prevent cracking or delamination.

Item: W-6

END OF SECTION

SECTION 09 90 00

PAINTING AND COATING

PART 1 - GENERAL

1.1 General

- A. Perform all work in accordance with applicable codes, manufacturer instructions, and project specifications.
- B. Protect adjacent surfaces, landscaping, and finished materials during application.
- C. Maintain clean work areas and dispose of waste materials properly.
- D. Coordinate inspections and ensure compliance with quality standards throughout installation.

1.2 Preparation

- A. Clean all surfaces to remove dirt, dust, efflorescence, loose material, and contaminants.
- B. Repair cracks, voids, and surface defects prior to coating.
- C. Prime substrates with manufacturer approved primers compatible with the finish system.
- D. Ensure moisture content, pH levels, and environmental conditions meet coating manufacturer requirements.

1.3 Application

- A. Apply specified paint or coating systems in the number of coats and mil thicknesses in accordance with the plans.
- B. Use approved application methods (brush, roller, or spray) to achieve uniform coverage and finish.
- C. Maintain consistent color, sheen, and texture across all coated surfaces.
- D. Allow proper drying and curing times between coats per manufacturer recommendations.

Item: W-6

END OF SECTION

SECTION 31 10 00

SITE CLEARING

PART 1 – GENERAL

1.1 DESCRIPTION OF WORK

- A. The work under this Section consists of site clearing and removal necessary to construct the proposed CMU dump wall and associated improvements at the Mid County Transfer Station.
- B. The work includes, but is not limited to:
 - 1. Removal of the existing fence within project limits.
 - 2. Removal of minor vegetation, brush, and surface obstructions required for construction access and wall installation.
 - 3. Removal of existing concrete footings associated with the fence, as required.
 - 4. Removal of asphalt, concrete pavement, or base material as required for wall footing installation.
 - 5. Protection of existing utilities, structures, and facilities to remain.
 - 6. Hauling and legal disposal of removed materials.
- C. Site clearing limits shall be confined to the minimum area necessary to perform the work as shown on the Contract Documents.
- D. Installation of all erosion and sediment control measures shown in the Contract Documents shall be in place prior to initiating clearing activities.

1.2 PROJECT CONDITIONS

- A. The Contractor shall verify project limits and existing site conditions prior to commencing work.
- B. Coordinate with Florida Power & Light (FPL) and other utility providers as required to avoid damage to overhead or underground utilities.
- C. C. The Mid County Transfer Station will remain operational during construction. The Contractor shall:
 - 1. Maintain safe access for facility operations.
 - 2. Prevent disruption to transfer station activities.
 - 3. Provide temporary barriers, fencing, or traffic control as required for safety.
- D. No clearing outside designated project limits shall be permitted without written authorization from the Owner.

1.3 PROTECTION OF EXISTING IMPROVEMENTS

- A. Protect existing improvements, utilities, pavement, structures, and equipment indicated to remain.
- B. Immediately notify the Owner of any damage to existing facilities.
- C. Repair or replace damaged improvements to the satisfaction of the Owner at no additional cost.
- D. Protect adjacent pavement from damage due to construction equipment. Any pavement damaged beyond the limits shown shall be restored.

PART 2 – EXECUTION

2.1 GENERAL CLEARING

- A. Remove vegetation, debris, fence materials, foundations, and obstructions interfering with construction of the CMU wall.
- B. Strip and stockpile topsoil only if directed by the Owner. Otherwise, remove and dispose of unsuitable materials.
- C. Carefully remove fence posts and foundations to minimize disturbance to adjacent pavement and utilities.
- D. Sawcut pavement prior to removal where required to provide clean, straight edges for restoration.

2.2 REMOVAL OF IMPROVEMENTS

- A. Remove existing chain link fence, posts, footings, and associated hardware within project limits.
- B. Remove concrete, asphalt, and base materials as required for installation of new wall footings.
- C. Remove abandoned underground obstructions encountered within the work limits.
- D. Backfill voids resulting from removals with suitable compacted material in accordance with project specifications.

2.3 DISPOSAL OF MATERIALS

- A. Burning on site is not permitted.
- B. Dispose of all cleared materials off-site in accordance with applicable local, state, and federal regulations.
- C. Salvageable materials shall remain the property of the Owner unless otherwise directed in writing.
- D. The Contractor is responsible for all hauling and disposal costs.

2.4 RESTORATION

- A. Restore disturbed areas not covered by new construction to original condition or better.
- B. Replace pavement removed for construction in accordance with project details.
- C. Remove temporary erosion control measures after final stabilization and approval by the Owner.

Item: W-2

END OF SECTION

SECTION 31 22 00

GRADING

DIVISION 31 – EARTHWORK
PART 1 – GENERAL

1.1 DESCRIPTION OF WORK

- A. The work under this Section includes excavation, filling, grading, and compaction required for construction of the CMU dump wall and associated improvements at the Mid County Transfer Station.
- B. Work includes, but is not limited to:
 - 1. Excavation for wall footings.
 - 2. Removal of unsuitable materials within construction limits.
 - 3. Backfilling of wall foundations.
 - 4. Placement and compaction of structural fill.
 - 5. Rough and fine grading to match existing site conditions.
 - 6. Establishment of positive drainage away from the proposed wall.
- C. Grading limits shall be confined to the areas necessary to construct the improvements shown in the Contract Documents.

1.2 PROJECT CONDITIONS

- A. The facility will remain operational during construction. The Contractor shall maintain safe access and prevent ponding, rutting, or unsafe surface conditions.
- B. Protect existing utilities and improvements to remain. Repair any damage at no additional cost to the Owner.

PART 2 – PRODUCTS

2.1 FILL MATERIAL

- A. Structural fill shall be clean sand or approved select fill free of organic material, debris, and deleterious substances.
- B. Fill material shall be suitable for compaction and capable of achieving specified densities.

PART 3 – EXECUTION

3.1 EXCAVATION

- A. Excavate to the lines and grades shown in the Contract Documents.
- B. Remove soft, loose, or unsuitable material encountered within footing areas and replace with compacted structural fill.

3.2 FILLING AND COMPACTION

- A. Place fill in lifts not exceeding 12 inches loose thickness.
- B. Compact fill to a minimum of 95 percent of the maximum dry density as determined by ASTM D1557, unless otherwise specified.
- C. Backfill foundations evenly on both sides to prevent displacement.

3.3 FINISH GRADING

- A. Grade disturbed areas to blend with adjacent existing grades.
- B. Provide positive drainage away from the wall and adjacent structures.
- C. Restore disturbed pavement areas in accordance with project details.

Item: W-1

END OF SECTION

SECTION 31 23 00
EXCAVATION AND FILL

PART 1 – GENERAL

1.1 SCOPE

- A. This Section includes excavation for CMU wall footings, removal and disposal of excavated materials, backfilling, placement of fill materials, and compaction.
- B. Work includes removal of existing fence footings and any unsuitable materials encountered within the limits of construction.

1.2 BASIS OF PAYMENT

- A. Work under this section shall be considered as incidental to construction and no additional payment shall be made for the work or materials specified herein.

1.3 SUBMITTALS

- A. The Contractor shall provide the Engineer with 2 certified copies of the test results of the compaction of the backfill as specified herein. The testing for compaction and the certification of the test results shall be performed by a testing laboratory approved by the Engineer.

PART 2 – EXECUTION

2.1 EXCAVATION

- A. Excavate to the lines and grades shown on the Contract Documents.
- B. Excavation shall include removal and disposal of all materials encountered, regardless of nature, within the required limits.
- C. Protect existing utilities, pavement, and structures to remain. Immediately notify the Owner of any unforeseen conditions.
- D. Remove soft, loose, or unsuitable materials beneath wall footings and replace with approved compacted structural fill.
- E. Stockpile excavated material in a manner that does not interfere with transfer station operations or create unsafe conditions.

- F. Dispose of excess or unsuitable material off-site in accordance with applicable regulations.

2.2 SHEETING AND SHORING

- A. Provide and maintain any necessary sheeting, shoring, or bracing required for safety and protection of adjacent improvements.
- B. All temporary support systems shall comply with applicable OSHA and state safety regulations.
- C. Sheeting and shoring shall be removed after backfill has been completed and the structure has attained sufficient strength.

2.3 BACKFILL

- A. Backfill shall not be placed until footings or structures have been inspected and approved.
- B. Backfill material shall consist of clean sand or approved granular fill free of organic material, debris, or oversized rock.
- C. Large stones, broken concrete, or unsuitable materials shall not be used as backfill.
- D. Backfill shall be placed evenly on both sides of the wall to prevent unbalanced loading.

2.4 COMPACTION

- A. All backfill behind and around the new Work shall be placed in layers, not more than 9 inches in depth, and shall be compacted to not less than 98 percent density per AASHTO T-180.
- B. Areas where the density does not affect the construction, as determined by the Engineer, shall be compacted to not less than 90 percent density per AASHTO T-180.

2.5 CLEANUP

- A. Remove excess materials and debris from the site upon completion of backfilling operations.
- B. Grade disturbed areas to match existing conditions and maintain positive drainage.

2.6 DEFECTIVE WORK

- A. Any portion of the backfill which is deficient in the specified density shall be corrected by the methods meeting the approval of the Engineer. Any extra testing or sampling required because of apparent deficiencies shall be at the Contractor's expense

Item: W-1

END OF SECTION

SECTION 34 71 00

ROADWAY CONSTRUCTION

PART 1 - GENERAL

1.1 General

- A. Perform all work in accordance with applicable DOT standards, project specifications, and manufacturer recommendations.
- B. Protect adjacent surfaces, structures, and utilities during construction.
- C. Maintain clean work areas and coordinate inspections and testing as required.
- D. Coordinate inspections and ensure compliance with quality standards throughout installation.

PART 2 - ASPHALT PAVING

2.1 Subgrade Preparation

- A. Excavate, grade, and compact the subgrade to the elevations shown on the drawings.
- B. Remove unsuitable soils and replace with approved fill as required.
- C. Verify final subgrade meets density, stability, and moisture requirements prior to base installation.

2.2 Base Course Installation

- A. Place approved aggregate base material to the specified thickness.
- B. Spread, shape, and compact the base to achieve uniform density and proper cross slope for drainage.
- C. Proof roll the base to confirm stability and identify any soft or deficient areas for correction.

2.3 Tack Coat Application

- A. Clean the prepared base or existing pavement surface of dust and debris.
- B. Apply tack coat uniformly at the specified rate to ensure proper bonding between layers.
- C. Allow tack coat to cure to a tacky condition before asphalt placement.

2.4 Asphalt Placement

- A. Deliver and place hot mix asphalt at the specified temperature and lift thickness.
- B. Spread and grade asphalt using mechanical pavers unless otherwise approved.
- C. Ensure continuous placement to avoid cold joints and maintain consistent mat quality.

2.5 Asphalt Compaction

- A. Compact asphalt using appropriate rollers to achieve required density and smoothness.
- B. Perform breakdown, intermediate, and finish rolling in accordance with industry standards.
- C. Verify final surface meets thickness, grade, and compaction requirements.

2.6 Joints, Edges, and Transitions

- A. Construct longitudinal and transverse joints to ensure proper bonding and smooth transitions.
- B. Compact edges and match existing pavement elevations where tie ins occur.
- C. Seal exposed joints as required to prevent moisture infiltration.

Item: W-4

END OF SECTION