



PROJECT: **JACKSON COUNTY
SOLID WASTE MANAGEMENT FACILITY TRANSFER STATION**

DATE: **July 8, 2009**

RFP 9182-01 ADDENDUM No. 5

PAGE: 1 OF 5

Plans and Specifications for the referenced project, as prepared by Moreland Altobelli Associates, Inc., are hereby modified in the following particulars:

A. ADDENDA

1. ADDENDUM NO. 1

- a. SECTION B. DRAWINGS, ITEM 5a: Modify Note number 16 added in Addendum No. 1 to read:
"THE OWNER WILL PERFORM GRADING OF BUILDING PADS AND SITE TO WITHIN 0.5 FEET OF INDICATED FINISH GRADE OR TOP OF FINISH FLOOR UNDER SLABS PRIOR TO EXCAVATION BY CONTRACTOR FOR UTILITIES, FOOTINGS AND RETAINING WALLS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING AND BACKFILLING FOR INSTALLATION OF CONTRACTOR INSTALLED UTILITIES AND FOR SLABS, FOOTINGS AND RETAINING WALLS."
- b. SECTION B. DRAWINGS, ITEM 8 (Transfer Building): Delete note added by Addendum No. 1. See item C14 for sheet E5.
- c. SECTION B. DRAWINGS, ITEM 9 (Scale Building): Delete note added by Addendum No. 1. See item C14 for sheet E5.

2. ADDENDUM NO. 2

- a. SECTION B. DRAWINGS, ITEM 1b: Modify General Note number 7 added in Addendum No. 2 to read:
"THE CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE PAVING WITHIN 5'-0" OF THE BUILDING, THE 15'x12' PAD ABOVE THE RETAINING WALL, THE 17'-6"x 20'-6" PAD OUTSIDE THE LOADING PIT. AND OTHER CONCRETE SLABS NOTED TO BE "BY CONTRACTOR" ON CIVIL PLANS."
- b. SECTION B. DRAWINGS, ITEM 6a: Modify Slab on Grade Note number 4 added in Addendum No. 2 to read:
"THE CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE PAVING WITHIN 5'-0" OF THE BUILDING, THE 15'x12' PAD ABOVE THE RETAINING WALL, THE 17'-6"x 20'-6" PAD OUTSIDE THE LOADING PIT. AND OTHER CONCRETE SLABS NOTED TO BE "BY CONTRACTOR" ON CIVIL PLANS."

B. CONTRACT DOCUMENTS MANUAL

1. SECTION 00100 – INSTRUCTIONS TO BIDDERS

- a. Modify paragraph H.1 to read:
"The Bid Proposal will include:
 - a. Completed Bid Proposal Form
 - b. Bid Bond or Certified Check
 - c. Execution of Proposal Form
 - d. Addenda Acknowledgement Form
 - e. Contractor's Qualification Statement – AIA form A305
 - e. Jackson County Vendor Master Form
 - f. Form W-9
 - g. GA Immigration and Security Compliance Act forms and affidavits for Contractor."

- b. Modify paragraph U.1 to add the following:

“d. GA Immigration and Security Compliance Act forms and affidavits for SubContractors.”

2. SECTION 00300 – BID (PRICE) PROPOSAL

- a. Replace Section 00300 with the attached Section 00300 – Addendum #5.

3. SECTION 01400 – TESTING LABORATORY SERVICES

- a. 1.5.C – Delete paragraph 6.

4. SECTION 02200 – EARTHWORK

- a. Replace Section 02200 with the attached Section 02200 – Addendum #5.

5. SECTION 13120 – METAL BUILDING SYSTEMS

- a. 2.01 MANUFACTURERS – Subject to compliance with project Plans and Specifications, add the following manufacturers:
 - 1. Vulcan Steel Structures, Inc.

6. SECTION 16000 ELECTRICAL SYSTEMS

- a. Delete section 2.9 LIGHTNING PROTECTION

C. DRAWINGS

1. CIVIL DRAWINGS – GENERAL:

- a. All erosion and sedimentation control measures, NPDES monitoring and land disturbance permitting will be the responsibility of the Owner.
- b. All storm water collection system installation will be the responsibility of the Owner.
- c. Installation of the fiber optic lines will be the responsibility of the Owner.

2. DRAWING C2.0 – SITE PLAN

- a. Modify note #3 to read as follows:

“THE OWNER SHALL ERECT BARRICADES, SIGNS, FLAGS, AND/OR OTHER DEVICES TO ADEQUATELY WARN, CONTROL, DIRECT, AND MAINTAIN TRAFFIC AT ALL TIMES. OPERATION OF THE EXISTING WASTE TRANSFER STATION AND TRUCK SCALE WILL CONTINUE DURING THIS CONSTRUCTION UNTIL SUCH TIME AS THE TRANSFER STATION AS INDICATED ON THESE CONSTRUCTION DRAWINGS IS COMPLETE AND READY FOR OCCUPANCY.”
- b. Modify note #6 to read as follows:

“THE OWNER SHALL PROVIDE WASTE DISPOSAL CONTAINERS AND RECYCLE CONTAINERS FOR SITE CONSTRUCTION AND SITE DEMOLITION DEBRIS AND WILL BE RESPONSIBLE FOR REMOVING THESE CONTAINERS FROM THE SITE.”
- c. Modify note #11 to read as follows:

“THE CONTRACTOR WILL INSTALL A 12’ x 30’ REINFORCED CONCRETE PAD FOR THE SELF CONTAINED COMPACTOR TO BE FURNISHED BY OTHERS. SEE SHEET C10.0 FOR DETAIL.”
- d. Add note #16 as follows:

“THE CONTRACTOR WILL INSTALL CONCRETE WHEEL SUPPORT PAD AND CONCRETE SKID SUPPORT PAD PER SHEET C10.0, CONCRETE PAVING DETAIL.”
- e. Add note #17 as follows:

THE CONTRACTOR WILL INSTALL THE 17’-6” X 20’-6” CONCRETE PAD PER SHEET C10.0, CONCRETE PAVING DETAIL.”

3. DRAWING C3.0 – INITIAL SITE DEMOLITION PLAN

- a. Add the following to notes #1, #4, #5, #6, and #7:

“WORK WILL BE THE RESPONSIBILITY OF THE OWNER.”
- b. Modify note #2 to read as follows:

"THE CONTRACTOR SHALL SAW CUT THE EXISTING CONCRETE RETAINING WALL TO ESTABLISH A CLEAN JOINT FOR CONSTRUCTION OF THE PROPOSED REINFORCED CONCRETE WALL CONNECTION. CONTRACTOR SHALL REMOVE WALL AND FOOTING BELOW GRADE. FOOTING SHALL BE ASSUMED AS CONTINUOUS 10 FT. IN WIDTH BY 1.5 FT. THICK WITH TOP OF FOOTING AT 1 FT. BELOW LOWEST GRADE. ALL DEMOLISHED WALL AND FOOTING DEBRIS WILL BE DISPOSED OF ON SITE AS DIRECTED BY THE SOLID WASTE MANAGER."

- c. Add note #8 as follows:

"EXISTING WATER LINE TO BE PLUGGED AND REMOVED DURING THE INITIAL SITE DEMOLITION PHASE SHALL BE THE RESPONSIBILITY OF THE OWNER."

4. DRAWING C4.0 – SITE GRADING AND DRAINAGE PLAN

- a. Modify note #10 to read as follows:

"THE CONTRACTOR WILL INSTALL A 12' x 30' REINFORCED CONCRETE PAD FOR THE SELF CONTAINED COMPACTOR TO BE FURNISHED BY OTHERS. SEE SHEET C10.0 FOR DETAIL."

- b. Modify note #11 to read as follows:

"THE OWNER WILL PREPARE THE SOILS UNDER THE TRUCK SCALES TO ACHIEVE BEARING CAPACITY OF 3,000 PSF AS REQUIRED BY THE SCALE MANUFACTURER. WORK SHALL BE COORDINATED WITH THE PROJECT ENGINEER FOR ALL TESTING."

- c. Add note #17 as follows:

"THE CONTRACTOR WILL INSTALL A CHAIN LINK FENCE WITH OPAQUE STRIPS WOVEN INTO THE FENCE FABRIC AND "W" BEAM GUARDRAIL PER GaDOT STD. NO 4010 ALONG TOP OF EXISTING AND NEW RETAINING WALL , SEE SHEET C10.1 DETAILS."

5. DRAWING C5.0 – SITE UTILITY PLAN

- a. Indicate new transformer location 15' north of Scale Building, centered between asphalt drives. Add note "NEW TRANSFORMER AND CONCRETE PAD BY UTILITY COMPANY"

- b. Indicate new electric meter location centered on north side of Scale Building. Add note: "ATTACH METER TO BUILDING WITH TOP OF METER AT 4'-0" ABOVE GRADE MAXIMUM."

- c. Indicate new transformer location 15' south of the northwest corner of Transfer Building, 15 feet from building. Add note "NEW TRANSFORMER AND CONCRETE PAD BY UTILITY COMPANY"

- d. Indicate new electric meter location 15' south of the northwest corner of Transfer Building. Add note: "ATTACH METER TO BUILDING WITH TOP OF METER AT 4'-0" ABOVE GRADE MAXIMUM."

- e. Indicate electrical disconnect located 5' east of south end of compactor pad. Add note: "DISCONNECT SHALL BE MOUNTED TO 3" STEEL CHANNEL WITH TOP OF BOX AT 4'-0" MAXIMUM ABOVE GRADE. PROVIDE 12"X 24" DEEP CONCRETE FOOTING FOR CHANNEL. COORDINATE SIZE OF DISCONNECT WITH COMPACTOR (BY OTHERS)"

- f. Add the following to note #5:

"THE TRENCH DRAIN IS A PART OF THE SANITARY SEWER SYSTEM AND WILL BE INSTALLED BY THE CONTRACTOR."

- g. Modify note #8 as follows:

"WATER AND SANITARY SEWER LINE CONSTRUCTION SHALL CONFORM WITH THE APPLICABLE JACKSON COUNTY WATER AND SEWER AUTHORITY DETAILS AND SPECIFICATIONS AND WITH JACKSON COUNTY DEPARTMENT OF PUBLIC DEVELOPMENT REGULATIONS."

- h. Modify "DOUBLE DETECTOR CHECK VALVE IN CONCRETE VAULT" to read "DOUBLE CHECK VALVE ASSEMBLY IN CONCRETE VAULT". **Double check valve assembly vault installation detail is attached.**

6. DRAWING C9.0 – FINAL SITE DEMOLITION PLAN

- a. Add the following to notes #1, #2, #4, #5, #6, #7, and #8:

“WORK WILL BE THE RESPONSIBILITY OF THE OWNER.”

- b. Add the following to note #3:

“WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.”

- c. Add note #9 as follows:

“THE CONTRACTOR WILL DEMOLISH THE EXISTING TRANSFER STATION STRUCTURE AND PLACE ALL METAL DEBRIS IN RECYCLE CONTAINERS PROVIDED BY THE OWNER. ALL OTHER DEBRIS RESULTING FROM THE DEMOLITION OF THE TRANSFER STATION WILL BE PLACED IN APPROPRIATE WASTE CONTAINERS PROVIDED BY THE OWNER. WASTE AND RECYCLE CONTAINERS WILL BE DISPOSED OF BY THE OWNER.”

- d. Add note #10 as follows:

“EXISTING 11” WIDE WALL AND BUILDING FOUNDATION WILL BE REMOVED BY THE OWNER.”

- e. Add note #11 as follows:

“REMOVAL OF OVERHEAD POWER LINES, POWER POLES AND GUY WIRES FOR THE FINAL DEMOLITION PHASE SHALL BE THE RESPONSIBILITY OF JACKSON EMC.”

7. DRAWING A2 – ELEVATIONS 4/A2 AND 5/A2

- a. Modify exterior light note to read: “LIGHT FIXTURE-SEE ELECTRICAL. PROVIDE ADDITIONAL FRAMING BETWEEN GIRTS AS REQUIRED”

8. DRAWING A2 – ELEVATION 8/A2

- a. Add exterior light fixtures on mounted to metal wall panels on both sides of opening. Add note: “LIGHT FIXTURE-SEE ELECTRICAL. PROVIDE ADDITIONAL FRAMING BETWEEN GIRTS AS REQUIRED”

9. DRAWING A3 – FINISH SCHEDULE

- a. Add the following below schedule

“ABBREVIATIONS:

VCT	Vinyl Composition Tile
RUB	Rubber Base (entire perimeter of room)
GB	Gypsum Board
ACT	Acoustical Ceiling Tile”

10. DRAWING A3 – SCALE BUILDING PLAN

- a. Modify note on east wall of Storage #106 to read: “ROUGH-IN 2” WASTE, HOT WATER AND COLD WATER”

11. DRAWING E1 – TRANSFER STATION BUILDING POWER PLAN

- a. Add underground power from panel “T” to Pump Station pump. See drawing C5.0 (modified in this addendum)

12. DRAWING E2 – TRANSFER STATION BUILDING LIGHTING PLAN

- a. Add light fixture type “W” on both sides of opening on north side of building to be circuited with other exterior lights.

13. DRAWING E3 – SCALE BUILDING POWER PLAN

- a. Add underground power from panel “S” to Compactor pad and provide disconnect at pad. See drawing C5.0 (modified in this addendum)

14. DRAWING E5 –

- a. **DETAILS 3/E5 AND 4/E5:**

- 1.) Modify transformer note to read: “PAD MOUNTED TRANSFORMER PROVIDED AND INSTALLED BY UTILITY COMPANY. WIRING SHALL BE UNDERGROUND TO PAD. SEE SHEET C5.0 FOR LOCATION”

- 2.) Modify electric meter note to read: "METER BY UTILITY COMPANY. METER BOX PROVIDED AND INSTALLED BY CONTRACTOR. WIRING SHALL BE UNDERGROUND TO PAD. SEE SHEET C5.0 FOR LOCATION"
 - 3.) Delete outlined meter location note.
- b. **Detail 1/E5: TRANSFER STATION PANEL SCHEDULE**
- 1.) Modify circuiting to add compactor circuit for 10 hp, 208 volt, 3 phase.
- c. **Detail 2/E5: SCALE BUILDING PANEL SCHEDULE**
- 1.) Modify circuiting to add lift station pump circuit for 2 hp, 208 volt, 3 phase pump.

END OF ADDENDUM No. 5

ATTACHMENTS:

Section 00300 BID PROPOSAL FORM (2 pages)

Section 02200 EARTHWORK (4 pages)

DOUBLE CHECK VALVE ASSEMBLY (1 page)

(TOTAL PAGES IN ADDENDUM NO. 5 : 12 PAGES)

SECTION 00300

BID (PRICE) PROPOSAL

TO: JACKSON COUNTY BOARD OF COMMISSIONERS

FROM: _____
Bidder's Name

FOR: TRANSFER STATION, SCALE HOUSE AND APPURTENANCES

Submitted: _____, 2009.

The undersigned Bidder, having examined the contract drawings, and the site of the proposed work and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of equipment and labor, hereby proposes to construct the project in accordance with the contract documents and the Specifications for "JACKSON COUNTY TRANSFER STATION, SCALE HOUSE AND APPURTENANCES".

The Bidder proposes and agrees, if this bid is accepted, to contract with the Jackson County Board of Commissioners in the form of contract agreement specified, to furnish all necessary products, machinery, tools, apparatus, means of transportation, material and labor necessary to complete the construction of the work in full and complete accordance with the Contract Documents including Addenda for the "JACKSON COUNTY TRANSFER STATION, SCALE HOUSE AND APPURTENANCES" for the following sum:

_____ Dollars

(\$ _____) which Sum is hereinafter called the "Base Bid".

UNIT PRICES:

The following unit prices are amounts to be used for work that will be added to or deleted from the Contract by Change Order in the event such additional work may be requested or required.

Unit prices are complete for labor, equipment, material, the hauling in of needed material and the hauling off and disposal of excess and unsuitable material, installation, applicable taxes, overhead and profit and all other incidental costs. Units will be measured in place.

OWNER reserves the right to accept or reject these unit prices or require the Work to be performed on a time and material basis with complete daily breakdowns and logs submitted.

	<u>Description</u>	<u>Unit Prices</u>	<u>Units</u>
A.	Mass Rock excavation and rock deposited elsewhere on site.	\$ _____	Per Cubic Yard.
B.	Trench Rock excavation, rock deposited elsewhere on site.	\$ _____	Per Cubic Yard
C.	Excavate unsuitable soil and deposit elsewhere on site.	\$ _____	Per Cubic Yard
D.	Bring in suitable soil from on-site and compact in-place to replace excavated rock or unsuitable soil:	\$ _____	Per Cubic Yard
E.	Haul in and placement of #57 stone	\$ _____	Per Cubic Yard
F.	Haul in and placement of crusher run stone	\$ _____	Per Cubic Yard
G.	8" D.I.P. Sanitary Sewer including trenching and backfill.	\$ _____	Per Linear Foot
H.	4" D.I.P. Sanitary Sewer including trenching and backfill.	\$ _____	Per Linear Foot
I.	8" D.I.P. Water Service including trenching and backfill.	\$ _____	Per Linear Foot
J.	2" D.I.P. Water Service including trenching and backfill.	\$ _____	Per Linear Foot
K.	1" D.I.P. Water Service including trenching and backfill.	\$ _____	Per Linear Foot

The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Owner, and to fully complete all work under this Contract within 240 consecutive calendar days from and including said date.

The Bidder furthermore agrees that, in the case of a failure on his part to execute the Contract Agreement and Bonds within ten (10) days after receipt of conformed Contract Documents for execution, the Bid Bond accompanying his/her bid and the monies payable thereon shall be paid into the funds of the Owner as liquidated damages for such failure.

Attached hereto is a bid bond for the sum of

Dollars (\$_____).

According to the provisions of "Invitation to Bid" and provisions thereof.

Bidder: _____

By: _____

(Type Name)

Title: _____

Address: _____

Phone: _____

END OF SECTION

**SECTION 02200
EARTHWORK**

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work Included: The extent of earthwork as shown on the drawings including but not necessarily limited to:
1. Excavation for footing and structures.
 2. Furnish and install graded aggregate base under concrete slabs as shown on the drawings.
 3. Cutting and filling to attain proper grades.
 4. Trenching and backfilling.
 5. All grading as shown or specified.

1.02 SITE CONDITIONS

- A. Existing grades, foundation conditions, soil condition and quantity of earthwork are shown only to the extent as discovered by the engineer during design and are not guaranteed accurate. Contractor must determine by personal examination and by such other means the extent of the actual existing conditions. Any foreseen conditions shall not be considered as a claim for increased compensation under the terms of the contract, including rock.

1.03 WORK CONDITIONS

- A. Contractor is required to erect any sheeting, shoring and bracing as needed for protection of workmen, structures and excavations.
- B. Provide dewatering as required to accomplish work under this contract.

1.04 QUALITY ASSURANCE

- A. Compaction Tests:
1. All soil compaction tests shall be performed by a testing laboratory employed by the Owner.
 2. If compaction does not meet the Specification, the Contractor shall remove that part of the work not meeting the specifications and replace with properly compacted material. Payment for all compaction tests made for such defective work is the responsibility of the Contractor.
- B. All earthwork operations shall comply with OSHA Standards, Part 1926, subparagraph P. and subparagraph O.

PART 2 - PRODUCTS

2.01 FILL MATERIAL

- A. Fill material shall consist of soil or soil-rock mixture which is free from topsoil, organic matter, and other deleterious substances. Large boulders, thick rock or quartz layers which are not broken down by compaction equipment will not be suitable for use in the fill.

- B. Fill material shall be subject to the approval of the Engineer.

2.02 TRENCH AND STRUCTURAL BACKFILL

- A. On-site material used for trench and structural backfill shall meet the requirements of paragraph 2.1.A above. Material shall be free of rock or stone larger than two inches.
- B. Granular material when required for trench and structural backfill shall be free from organic substance and other deleterious matter, shall be subject to the approval of the Engineer, and shall be in particle size grading within the following limits:
 - 1. Passing the number four sieve: 100%.
 - 2. Passing the number 200 sieve: 3% Maximum.

2.03 AGGREGATE BASE UNDER CONCRETE SLAB

- A. Aggregate base under concrete slabs on grade, where shown on the plans, shall be clean mineral aggregate with particle size grading within the following limits:
 - 1. Passing the one inch mesh: 100%.
 - 2. Passing the number four sieve: Not more than 5%.
 - 3. Passing the number 200 sieve: Not more than 1%.

2.04 RIP-RAP

- A. The stone used for rip-rap shall meet the requirements of Section 805.01-B of Ga. D.O.T. Specifications, 1983 edition, "Stone for Plain Rip-Rap."

2.05 NON-SPECIFIED MATERIALS

- A. All other materials, not specifically described but required for a complete and proper installation, shall be as selected by the Contractor subject to the approval of the Engineer.

PART 3 - EXECUTION

3.01 GENERAL

- A. Prior to all work of this Section, become thoroughly familiar with the site, the site conditions, and all portions of the work falling within this Section.
- B. Do not allow or cause any work to be covered up or enclosed by work of this Section prior to all required inspections, tests, and approvals. Should any of the work be covered up before it has been approved, uncover all such work for inspection at no additional cost to the Owner.

3.02 EXCAVATION

- A. Excavate to grades shown on the Drawings. Where excavation grades are not shown on the Drawings, excavate as required to accommodate the installation. Extend excavation as required for proper formwork constructions.
- B. Backfill and compact all over excavated areas as specified for fill below and at no additional cost to the Owner unless so directed by the Engineer in which case the contractor shall be paid the price bid per cubic yard.

- C. Control grading in vicinity of structures to prevent surface water from running into excavated areas.
- D. Where depressions result from, or have resulted from the removal of surface or subsurface obstructions, open the depression to equipment working width and remove all debris and soft material as directed by the Engineer.

3.03 TRENCHING

- A. Excavate for trenches to depth indicated or required and to establish indicated flow lines or invert elevations. Maintain uniform width required for particular item to be installed, including width to provide ample working room.
- B. Pipe trenches shall be straight and true to grade and in the location shown on the plans. The bottom of the trenches shall be hand dressed so that the pipe has an even bearing on solid undisturbed earth throughout its entire length between bell, or coupling holes.
- C. Bell holes shall be excavated at all pipe joints for bell and spigot and mechanical joint pipe. Bell holes shall be large enough to facilitate the proper installation of all joints. No part of the pipe bell or coupling shall be in contact with sides or bottom of the trench.

3.04 FILL UNDER STRUCTURES

- A. Prior to placing any fill material, the subgrade shall be proof-rolled in the presence of the Engineer. Any unstable areas shall be repaired and the placing of fill materials shall proceed only after inspection and approval by the Engineer.
- B. Approval of the fill material by the Engineer shall be required prior to initiating filling operations.
- C. No fill shall be placed or compacted in a frozen condition or on top of frozen material. No fill material shall be placed when free water is standing on the surface of the area where the fill is to be placed and no compaction of fill will be permitted with free water standing on any point of the surface of the fill to be compacted.
- D. Scarify existing surfaces to provide bond with new material.
- E. Place fill and backfill in layers not exceeding eight inches before compaction and thoroughly tamp with a sheepsfoot roller unless otherwise indicated or specified. Compact to a density of not less than 95% of the maximum laboratory dry density, as determined by ASTM D698-78. If necessary, in order to obtain the required compaction, the Contractor shall add moisture or shall air dry the material.
- F. Stones in earth fill must be well distributed and no stones over four inches in diameter may be left within 36 inches of finished grade.

3.05 BACKFILLING AROUND STRUCTURES

- A. Backfilling around structures shall not proceed until authorized by the Engineer.
- B. All formwork, debris and other undesirable material shall be removed prior to backfilling. Area shall be dewatered.
- C. Backfill material shall be as specified in this section. Backfill shall be placed in layers of 8 inches maximum and shall be of a moisture content which will permit proper compaction. Each layer shall be compacted by mechanical tampers and special care shall be taken to prevent uneven loading or damage to the structure.

- D. Compact backfill material to a minimum relative density of 90% as determined by ASTM D698 (Standard Proctor).

3.06 BACKFILLING TRENCHES

- A. The backfilling of pipe trenches shall be started immediately after the pipe installation has been approved by the Engineer.
- B. Backfill material shall be as specified in this section. The material shall contain no rock greater than two inches in maximum dimension.
- C. Backfill shall be tamped in layers not over 6 inches thick. Tamping shall be done with mechanical tamps in such a manner as to thoroughly compact the backfill without moving or injuring the pipe. The remainder of the backfill may be placed in the trench by a machine, but the backfill shall be compacted to the top of the trench, either by pneumatic hand tamps, hydro-tamps, or other approved methods. After compaction, the dry weight per cubic foot shall be at least 95 percent of the maximum laboratory dry weight per cubic foot as determined by ASTM D698-78. The trench shall be backfilled and the surface brought to its original grade and profile contour.
- D. In rock excavation, the backfill from the bottom of the trench to one foot above the top of the pipe shall be finely pulverized soil, free from rocks and stones. The rest of the backfill shall not contain over 75% broken stone, and the maximum mixed stone placed in the trench shall not have a weight exceeding 50 pounds. Excess rock and fragments of rock weighing more than 50 pounds shall be loaded and hauled to disposal as directed by the Engineer.

3.07 FINISH GRADING

- A. The contractor shall employ a competent person to interpret elevations and grading details shown on plans.
- B. Areas to be grassed shall be spread with selected topsoil that has been obtained from site clearing. The topsoil shall be mixed into the surface and compacted suitably for planting.
- C. Areas around buildings and structures shall be graded so as to prevent accumulation of water within the area.

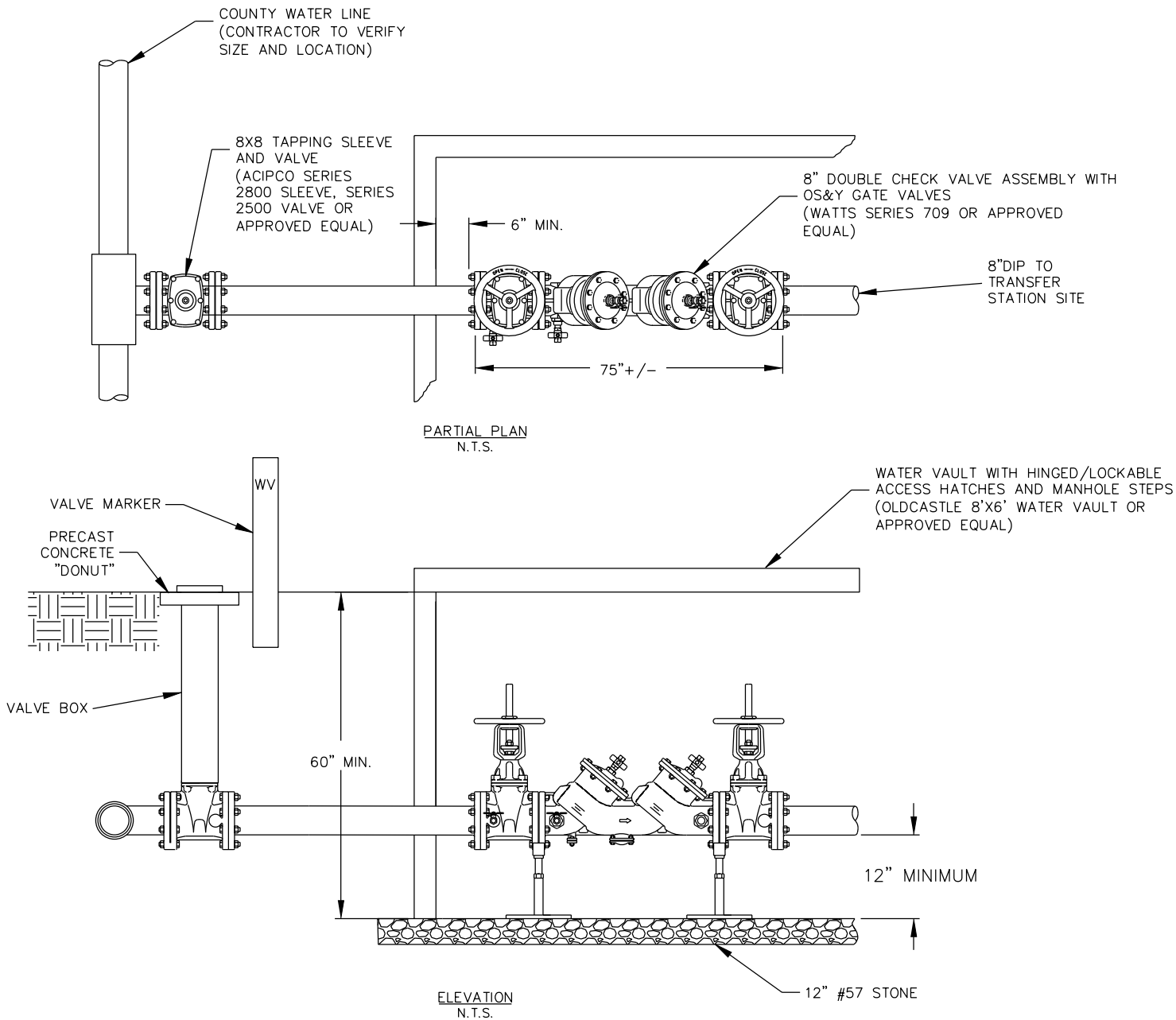
3.08 TEMPORARY EROSION CONTROL

- A. The Contractor will provide erosion and sediment control as shown on the plans. All erosion control measures taken shall comply with the Georgia Soil and Water Conservation Committee Standards. The contractor shall periodically inspect and maintain all erosion control devices.

3.09 DISPOSAL OF EXCESS MATERIAL

- A. Excess material may be disposed of on site in areas selected by the Contractor and approved by the Engineer.
- B. Disposal sites shall be graded to be free draining, with side slopes no greater than 3:1, and to blend in with the existing topography.
- C. Upon completion of work at the disposal sites, the areas shall be finish graded as required in this section and grassed as required.

END OF SECTION



DOUBLE CHECK VALVE ASSEMBLY
VAULT INSTALLATION
OS&Y GATES

**JACKSON COUNTY SOLID WASTE FACILITY
SCALE HOUSE / TRANSFER STATION BUILDING
ADDENDUM #5 - 07/08/09**