



ESSEX COUNTY

OFFICE OF THE MANAGER

7551 Court Street · P.O. Box 217 · Elizabethtown, New York 12932
Telephone (518) 873-3332 · Fax (518) 873-3339

Daniel L. Palmer
County Manager

Linda M. Wolf
Purchasing Agent

TO: All Bidders

FROM: Linda Wolf, CPA, Purchasing Agent

DATE: October 26, 2016

SUBJECT: Addendum #1 CONCRETE REPAIRS

This Addendum, issued to bid document holders of record, indicates changes to the bid documents for the *CONCRETE REPAIRS* Bid Opening November 9, 2016.

Please see attached Questions and Answers, as well as SECTION 312213 ROUGH GRADING and SECTION 312316 EXCAVATION.

END OF ADDENDUM # 1

Questions and Answers

1. Is a building permit and cost for the building permit required for this project, or will it be waived for a government project? **Essex County will issue a building permit for the project based on the scope that gets awarded.**
2. Are there any defined M/WBE goals for this project? **No, there is no state or federal funding involved so these goals are not required.**
3. Specification 033000 paragraph 1.4.C states testing (cast-in-place concrete) is by the County, however, paragraph 3.15.A refers to testing by the Contractor. Which is correct? **Essex County has a third party testing firm under contract which will be made available to the successful bidder. Coordination of the actual testing will be the responsibility of the successful bidder.**
4. Is any in place testing required for specification sections 310513 and 310516? We did not find any in place testing requirements for these sections. **Yes, refer to specification sections 312213 and 312316 added in this addendum.**
5. Specification 033000 paragraph 2.10.D refers to synthetic structural fibers. Is this required for any of the concrete on this project? **No.**
6. Appendix E paragraph 57 states that performance and payment bonds may be required. We to know pre-bid if they will be required in order to include the cost for these items. Please review and advise. **These will not be required in this case.**
7. Specification section 310516 Part 2 products have several products that are listed as "crushed stone". The plans specifically call out NYS DOT Item 304.12 Type 2 for subbase under sidewalks, however, under concrete slabs the plans call out crushed stone. Which product from specification 310516 part 2 is to be used for "crushed stone"? **Contractor shall provide NYS DOT Item 304.12 Type 2 where "crushed stone" is called out.**

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SECTION 312213

ROUGH GRADING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Excavating topsoil.
 2. Excavating subsoil.
 3. Cutting, grading, filling, rough contouring and compacting site for site structures, and other site improvements.
- B. Related Sections:
1. Section 310513 - Soils for Earthwork.
 2. Section 310516 - Aggregates for Earthwork.
 3. Section 312316 – Excavation.

1.2 REFERENCES

- A. American Association of State Highway and Transportation Officials:
1. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop.
- B. ASTM International:
1. ASTM C136 - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 2. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)).
 3. ASTM D1556 - Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method.
 4. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)).
 5. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
 6. ASTM D2419 - Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate.
 7. ASTM D2434 - Standard Test Method for Permeability of Granular Soils (Constant Head).
 8. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
 9. ASTM D3017 - Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).

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- C. The term "Standard Specification" as used in this section shall mean the Standard Specifications, Construction and Materials, New York State Department of Transportation, Design and Construction Division, latest version and including all addendums thereto. Where the Standard Specifications are cited such work or material shall conform in every respect except for "Method of Payment" or if cited otherwise herein.

1.3 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Requirements for submittals.
- B. Samples: Submit, in air-tight containers, 50 lb sample of each type of fill to testing laboratory.
- C. Materials Source: Submit name of imported materials suppliers.

1.4 CLOSEOUT SUBMITTALS

- A. Section 017000 - Execution and Closeout Requirements: Requirements for submittals.
- B. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.

1.5 QUALITY ASSURANCE

- A. Perform Work in accordance with ASTM C136, ASTM D2419, and ASTM D2434, as applicable.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Topsoil: As specified in Section 310513.
- B. Subsoil Fill: As specified in Section 310513.
- C. NYSDOT 304.12: As specified in Section 310516.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 013000 - Administrative Requirements: Verification of existing conditions before starting work.
- B. Verify site conditions under provisions of Section 013000.

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- C. Verify survey bench mark and intended elevations for the Work are as indicated on Drawings.

3.2 PREPARATION

- A. Contact Local Utility Line Information service at “Dig Safely New York” (www.digsafelyny.org), not less than five working days before performing Work.
 - 1. Request underground utilities to be located and marked within and surrounding construction areas.
 - 2. When located beyond “Dig Safely New York” jurisdiction (i.e., private property), contract locating service to identify underground utilities beyond “Dig Safely New York” jurisdiction.
- B. Identify required lines, levels, contours, and datum.
- C. Notify utility company to remove and relocate utilities.
- D. Protect utilities indicated to remain from damage.
- E. Protect plant life, lawns, and other features remaining as portion of final landscaping.
- F. Protect bench marks, survey control point, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.

3.3 TOPSOIL EXCAVATION

- A. Excavate topsoil from areas to be further excavated, re-landscaped, or re-graded, without mixing with foreign materials for use in finish grading.
- B. Do not excavate wet topsoil.
- C. Stockpile in area designated on site to depth not exceeding 8 feet and protect from erosion. Stockpile material and cover over with impervious material, until disposal.
- D. Remove excess topsoil not intended for reuse, from site.

3.4 SUBSOIL EXCAVATION

- A. Excavate subsoil from areas to be further excavated, re-landscaped, or re-graded.
- B. Do not excavate wet subsoil or excavate and process wet material to obtain optimum moisture content.
- C. When excavating through roots, perform Work by hand and cut roots with sharp axe.
- D. Remove excess subsoil not intended for reuse from site.

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- E. Stockpile subsoil to be reused in area designated on site by Engineer to depth not exceeding 8 feet and protect from erosion.
- F. Stockpile excavated material in area designated on site in accordance with Sections 310513 and 310516.
- G. Benching Slopes: Horizontally bench existing slopes greater than 1: 4 to key placed fill material to slope to provide firm bearing.
- H. Stability: Replace damaged or displaced subsoil as specified for fill.

3.5 FILLING

- A. Fill areas to contours and elevations with unfrozen materials.
- B. Place material in continuous layers as follows:
 - 1. Subsoil Fill: Maximum 8 inches compacted depth.
 - 2. NYSDOT 304.12: Maximum 6 inches compacted depth.
- C. Maintain optimum moisture content of fill materials to attain required compaction density.
- D. Slope grade away from building minimum 2 percent slope for minimum distance of 10 ft, unless noted otherwise.
- E. Make grade changes gradual. Blend slope into level areas.
- F. Repair or replace items indicated to remain damaged by excavation or filling.

3.6 TOLERANCES

- A. Section 014000 - Quality Requirements: Tolerances.
- B. Top Surface of Subgrade: Plus or minus 1/10 foot from required elevation.

3.7 FIELD QUALITY CONTROL

- A. Sections 014000 - Quality Requirements and 017000 - Execution and Closeout Requirements: Field inspecting, testing, adjusting, and balancing.
- B. Perform laboratory material tests in accordance with ASTM D1557, ASTM D698, AASHTO T180, (as applicable).
- C. Perform in place compaction tests in accordance with the following:
 - 1. Density Tests: ASTM D1556, ASTM D2167, or ASTM D2922, (as applicable).
 - 2. Moisture Tests: ASTM D3017.

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- D. When tests indicate Work does not meet specified requirements, remove Work, replace and retest.
- E. Frequency of Tests: One test per 2,500 square feet per lift.

3.8 SCHEDULES

- A. NYS DOT Item 304.12, Type 2:
 - 1. Compact uniformly to minimum 95 percent of maximum density.
- B. Topsoil Fill:
 - 1. Topsoil: Six (6) inches thick.
 - 2. Compact uniformly to minimum 90 percent of maximum density.

END OF SECTION

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SECTION 312316

EXCAVATION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Soil densification.
 - 2. Excavating for foundations.
 - 3. Excavating for paving, roads, walks, and parking areas.
 - 4. Excavating for slabs-on-grade.
- B. Related Sections:
 - 1. Section 310513 - Soils for Earthwork.
 - 2. Section 310516 - Aggregates for Earthwork.

1.2 REFERENCES

- A. Local utility standards when working within 24 inches of utility lines.
- B. ASTM D698, Moisture-Density Relations of Soils and Soil Aggregate Mixtures, Using a 5.5-lb Rammer and a 12 inch Drop.
- C. ASTM D1556, Density of Soil In-Place by the Sand-Cone Method.
- D. ASTM D2049, Relative Density of Cohesionless Soils.
- E. ASTM D2167, Density of Soil in Place by the Rubber-Balloon Method.
- F. ASTM D2922, Density of Soil and Soil Aggregate in Place by Nuclear Methods (Shallow Depth).
- G. The term "Standard Specification" as used in this section shall mean the Standard Specifications, Construction and Materials, New York State Department of Transportation, Design and Construction Division, latest version and including all addendums thereto. Where the Standard Specifications are cited such work or material shall conform in every respect except for "Method of Payment" or if cited otherwise herein.

1.3 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Requirements for submittals.
- B. Samples: Submit, in air-tight containers, 50 lb sample of each type of excavated material to testing laboratory to determine suitability for use as fill material.

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- C. Shop Drawings: Indicate soil densification grid for each size and configuration footing requiring soils densification.

1.4 QUALITY ASSURANCE

- A. Do not proceed with filling operations or foundation construction until the subgrade has been approved by the Geotechnical Engineer.
- B. The Contractor must be cognizant of impending weather conditions and schedule the work in order to avoid disturbances of subgrade by precipitation or freezing. No additional compensation will be provided for correction of saturated or frozen subgrades.
- C. Compacted material which does not meet density requirements shall be re-compacted or removed and replaced at contractor's total expense. It shall be retested at the contractor's total expense until it meets the requirements.
- D. Testing costs will be paid by the Owner. Retesting for failed test results will be at contractor's expense.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 PREPARATION

- A. Identify required lines, levels, contours, and datum locations.
- B. Notify utility company to remove and relocate utilities.
- C. Protect utilities indicated to remain from damage.
- D. Protect plant life, lawns, and other features remaining as portion of final landscaping.
- E. Protect bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.

3.2 EXCAVATION

- A. Review Geotechnical Reports (if applicable) provided as an Appendix to these specifications.
- B. Underpin adjacent structures which may be damaged by excavation work. Provide sheeting, shoring or bracing to protect excavations from failing or settlements of adjacent structures.

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- C. Excavate subsoil to accommodate site structure foundations, paving, manholes and construction operations.
- D. Slope banks with machine to angle of repose or less until shored.
- E. Do not interfere with 45 degree bearing splay of foundations.
- F. Grade top perimeter of excavation to prevent surface water from draining into excavation.
- G. Hand trim excavation. Remove loose matter.
- H. Remove lumped subsoil, boulders, and rock up to 1½ cu yd measured by volume.
- I. Notify Engineer of unexpected subsurface conditions and discontinue affected Work in area until notified to resume Work.
- J. Excavated material may be used as structural backfill provided it complies with specification requirements. Remove excess excavated materials from the site.
- K. Correct areas over excavated within the building footprint with structural fill or concrete as directed by Engineer.
- L. Remove excess and unsuitable material from site and dispose of at a permitted site.
- M. Stockpile excavated material in area designated on site in accordance with Section 310513.
- N. Repair or replace items indicated to remain damaged by excavation.

3.3 FIELD QUALITY CONTROL

- A. Section 017000 - Execution and Closeout Requirements: Field inspecting, testing, adjusting, and balancing.
- B. Request visual inspection of bearing surfaces by Geotechnical Engineer before installing subsequent work.

3.4 PROTECTION

- A. Prevent displacement or loose soil from falling into excavation; maintain soil stability.
- B. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.
- C. Protect structures, utilities and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth operations.

END OF SECTION