



# City of New London

Department of Finance-Purchasing Agent  
13 Masonic Street • New London, CT 06320 • Phone (860) 447-5215 • Fax (860) 447-5297

## Invitation for Bids

### ADDENDUM

**Bid No.: 2013-09**

**Addendum No.: 2**

**Date Issued: March 5, 2013**

**Renovations at Calkins Park**

**Opening Date and Time: March 14, 2013 at 2:00 P.M.**

**Bidders Notes:** This addendum is issued to provide all bidders with:

1. A revised Bid Proposal Form – Addendum No. 2 (consisting of seven (7) pages), which must be used by all bidders.
2. Changes to the Plans and Specifications (consisting of fourteen (14) pages).

All other terms and conditions remain the same.

**This Addendum cover page must be signed and returned with your bid.**

\_\_\_\_\_  
Authorized Signature of Bidder

\_\_\_\_\_  
Company Name

### Return Proposal To:

William R. Hathaway, Purchasing Agent  
City of New London  
13 Masonic Street  
New London, CT 06320

**Proposals cannot be accepted after the Proposal Opening Date and Time indicated above.**

**SECTION 00310**  
**BID PROPOSAL - GENERAL BIDS**  
**Revised BID Proposal Form - Addendum No. 2**

**TO THE PURCHASING OFFICER OF CITY OF NEW LONDON**, acting in the name and on behalf of the City of New London, Connecticut Department of Public Works.

The undersigned proposes to furnish all labor and materials required for construction of the **Site Improvements at Calkins Park**, located at **Riverview Avenue and 2<sup>nd</sup> Crescent Street, New London, CT**, in accordance with the accompanying Contract Documents, plans and specifications dated January 2013 for the Bid Price specified below, subject to additions and deductions according to the terms of the contract documents.

**A. ADDENDA**

This bid includes Addenda numbered: \_\_\_\_\_ and dated: \_\_\_\_\_

This bid includes Addenda numbered: \_\_\_\_\_ and dated: \_\_\_\_\_

This bid includes Addenda numbered: \_\_\_\_\_ and dated: \_\_\_\_\_

This bid includes Addenda numbered: \_\_\_\_\_ and dated: \_\_\_\_\_

**B. BASE BID ( includes all work to complete the project)**

**Total Proposed Base Bid Price** \_\_\_\_\_ **DOLLARS \$** \_\_\_\_\_  
 (Price in Words) (Numbers)

**BASE BID BREAKDOWN:**

Item No.	Item Description	Unit	Specification Section	In Dollars and Cents Item Price
1	Site Preparation & Demolition _____ (Lump Sum written in words)	Lump Sum	02000 General Sitework 02130 Sediment & Erosion Control 02230 Site Clearing 02231 Sod Removal	\$ _____
2	Earthwork _____ (Lump Sum written in words)	Lump Sum	02300 Earthwork 02301 Earthwork at Athletic Fields 02332 Gravel	\$ _____
3	Fences and Gates _____ (Lump Sum written in words)	Lump Sum	02821 Chain Link Fences and Gates	\$ _____
4	Concrete _____ (Lump Sum written in words)	Lump Sum	02751 Site Concrete	\$ _____

**BASE BID BREAKDOWN: (CONT'D)**

**SECTION 00310**  
**BID PROPOSAL - GENERAL BIDS**  
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Item No.	Item Description	Unit	Specification Section	In Dollars and Cents Item Price
5	Pipe Railings <hr/> (Lump Sum written in words)	Lump Sum	05521 Pipe Railings	\$ _____
6	Site Furnishings <hr/> (Lump Sum written in words)	Lump Sum	02870 Site Furnishings 02871 Bleachers 02872 Safety Netting 02873 Ballfield Equipment	\$ _____
7	Walkway Pavements <hr/> (Unit Price written in words)	Lump Sum	02741 Asphalt Paving 02332 Gravel 02333 Processed Aggregate Base	\$ _____
8	Landscaping – Plantings, mulch and related work <hr/> (Unit Price written in words)	Lump Sum	02905 Plants	\$ _____
9A	Topsoil , Turf and Grasses <hr/> (Lump Sum written in words)	Lump Sum	02900 Topsoil (Both stripped and from on-site stockpile) 02920 Turf and Grasses	\$ _____
10	ADDITIONAL FILL FROM OFFSITE SOURCE <hr/> (Unit Price written in words)	1,000 CY	02300 General Excavation Part 2 Item 2.3 Granular Fill at Athletic Fields.	\$ _____
11	Architectural Work <hr/> (Lump Sum written in words)	Lump Sum	06200 Finish Carpentry 06401 Exterior Architectural Woodwork 09910 Painting Plumbing Notes	\$ _____

**SECTION 00310**  
**BID PROPOSAL - GENERAL BIDS**  
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**TOTAL BASE BID BREAKDOWN; ITEM NOS. 1 THRU 11 ABOVE EQUALS:**

\$ \_\_\_\_\_

NOTE: The Total Base Bid Breakdown: Item Nos. 1 thru 11, above should equal the Total Proposed Base Bid Price indicated on Page 00310-1. In case of conflict, the Total Proposed Base Bid Price indicated on Page 00310-1 shall govern.

**C. ALTERNATES:**

Item No.	Item Description	Unit	Estimated Quantity	In Dollars and Cents	
				Unit Price	Item Price
Add Alternate No. 1	Add Alternate: No. 1. – Includes furnish and installation of flagpole at restroom building as shown on the plans  _____ (Lump Sum written in words)	Lump Sum	NA	NA	\$ _____
Add Alternate No.2	Add Alternate: No. 2. – Includes porous asphalt in place of asphalt pavement at areas shown on plans along perimeter walkway.  _____ (Lump Sum written in words)	Lump Sum	NA	NA	\$ _____
Deduct Alternate No. 1	Deduct Alternate: No. 1. – Includes deduction of bike rack from project.  _____ (Unit Price written in words)	Lump Sum	NA	NA	\$ _____

**D. BASE BID PRICE BREAKDOWN**

The PROPOSED BASE BID PRICE IS SUBDIVIDED AS FOLLOWS:

ITEM 1. The work of the General Contractor, being all work performed by the General Contractor's own work force:

\_\_\_\_\_

DOLLARS \$ \_\_\_\_\_

(Price in Words) (Numbers)

**SECTION 00310**  
**BID PROPOSAL - GENERAL BIDS**  
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ITEM 2. The work of the General Contractor, being all work performed by a subcontractor not part of the General Contractor's own work force which is covered by ITEM 1 above:

SUB-TRADE	NAME OF SUBCONTRACTOR	AMOUNT
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____

TOTAL OF ITEM NO. 2: \_\_\_\_\_  
(Price in Words)  
 \$ \_\_\_\_\_  
(Price in Numbers)

**E. QUALIFICATIONS OF SUBCONTRACTORS**

The undersigned agrees that each of the above-named will be used for the work indicated at the amounts stated, unless a substitution is made with prior written approval of the Owner.

The undersigned further agrees to pay the premium for the performance and payment bonds furnished by the subcontractors as required herein and that all of the cost of all such premiums is included in the amount set forth in items of this bid.

**F. LEGAL ORGANIZATION**

The undersigned is a (an) \_\_\_\_\_ **(Individual-Partnership-Corporation-Joint Venture)**. Attach copies of articles of incorporation or partnership agreement, and Connecticut Secretary of State's Certificate of Good Standing.

**G. QUALIFICATIONS TO PERFORM WORK**

The undersigned offers the following information as evidence of its organizational qualifications to perform the work as bid upon according to all requirements of the plans and the specifications.

1. **The undersigned has been in business as a General Contractor under present business name for \_\_\_\_\_ years.**
2. List at least two and no more than five recent projects on which the undersigned served as the General Contractor for work of similar character as required for the above named project, along with the date of the project, the name of the Architect/Engineer, and the contract price.

**SECTION 00310**  
**BID PROPOSAL - GENERAL BIDS**  
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PROJECT NAME	DATE	ARCHITECT/ENGINEER	CONTRACT PRICE
1. _____	_____	_____	\$ _____
2. _____	_____	_____	\$ _____
3. _____	_____	_____	\$ _____
4. _____	_____	_____	\$ _____
5. _____	_____	_____	\$ _____

3. List all construction contracts between the undersigned and the State of Connecticut in the past five (5) years:

PROJECT NAME	DATE	STATE AGENCY	CONTRACT PRICE
1. _____	_____	_____	\$ _____
2. _____	_____	_____	\$ _____
3. _____	_____	_____	\$ _____
4. _____	_____	_____	\$ _____

4. **The undersigned has been in business as a landscaping Contractor under present business name for \_\_\_\_\_ years.**

List at least two and no more than five recent projects on which the undersigned has served as the Turf Grass/Athletic Field Contractor or Sub-Contractor for work of similar character as required for the above named project, along with the date of the project, the name of the Architect/Engineer, and the contract price.

PROJECT NAME	DATE	ARCHITECT/ENGINEER	CONTRACT PRICE
1. _____	_____	_____	\$ _____
2. _____	_____	_____	\$ _____
3. _____	_____	_____	\$ _____
4. _____	_____	_____	\$ _____

**SECTION 00310**  
**BID PROPOSAL - GENERAL BIDS**  
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5. \_\_\_\_\_ \$ \_\_\_\_\_

5. List all athletic field construction contracts between the undersigned and the State of Connecticut in the past five (5) years:

PROJECT NAME	DATE	STATE AGENCY	CONTRACT PRICE
1. _____	_____	_____	\$ _____
2. _____	_____	_____	\$ _____
3. _____	_____	_____	\$ _____
4. _____	_____	_____	\$ _____

**H. VIOLATION OF CT LAWS AND REGULATIONS**

The undersigned **is / is not (Please circle one)** currently cited as being in violation of any law or regulation administered by the State of Connecticut

If Yes please explain. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**I. REQUIREMENT FOR LICENSE NUMBER**

In compliance with the requirements of The State of Connecticut General Laws, my license number for work to be performed by this firm as prime contractor is:

**LICENSE NUMBER:** \_\_\_\_\_

**The undersigned acknowledges by signature below that the undersigned has read and understands the Information to Bidders, the terms of which are hereby incorporated into the Proposal.**

**DATE:** \_\_\_\_\_

**BIDDER:** \_\_\_\_\_

**BY:** \_\_\_\_\_  
Signature

**SECTION 00310**  
**BID PROPOSAL - GENERAL BIDS**  
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**BY:** \_\_\_\_\_  
Print or Typed Name Title

**BUSINESS ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**TELEPHONE NUMBER:** \_\_\_\_\_

**FEIN NO:** \_\_\_\_\_

**\*\*\*\*\*END OF REVISED BID PROPOSAL\*\*\*\*\***  
**END OF ADDENDUM NO 2**



**CITY OF NEW LONDON  
CALKINS PARK SITE IMPROVEMENTS**

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ADDENDUM NO 2  
MARCH 5, 2013  
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**NOTICE TO PROSPECTIVE BIDDERS**

**ADDENDUM NO. 2**

Prospective Bidders and all concerned are hereby notified of the following changes to the Specifications and Plans for the proposed Site Improvements for Calkins Park, New London, Connecticut. These changes shall be incorporated into the Specifications and Plans and shall become an integral part of the Contract Documents.

**PART 1 - DRAWING AMENDMENTS AND CLARIFICATIONS**

The following amendments and clarifications are made as a result of a review of plans subsequent to the advertisement for bid and the pre-bid conference.

1. For the following drawings: L-1.0 THROUGH ES-1, note number 2 in title block under NOTES should read as follows:

"2. Site layout information is based on survey dated **08-15-12.**"

**FOR DRAWING NO L-1.1 SITE LAYOUT PLAN**

2. Bituminous concrete (asphalt) pavement shall be installed under both bleachers. Refer to detail 1/L-4.0
3. Refer to Sheet SK-1 attached for delineation of porous bituminous concrete pavement – Add Alternate No. 2.

**FOR DRAWING NO L- 4.0 SITE DETAILS**

4. For detail 1A/L-5.0:
  1. Change detail number to 1A/L-4.0
  2. Change depth of Compacted Rolled granular base from 6 inches to 8 inches depth.
5. For detail 2/LA-4.0
  1. The callout for topsoil shall read: "Topsoil at 6-inch depth after compaction."
6. For detail 3/L-4.0:
  1. UNDER NOTES: Note number 1 shall read: "Refer to Exhibit A in Addendum No 2 for soil tests for existing topsoil stockpile. Contractor to provide soil test for any additional topsoil to be brought to the site. Soil test to provide the following:

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CALKINS PARK SITE IMPROVEMENTS**

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- i. Particle size analysis ( ASTM F-1632)
  - ii. textural class/organic matter
  - iii. ratio of N- P- K
7. For Detail 5/L-4.0: Specifications for the Sand callout have been eliminated. Refer to Item 4 under Part 2 of this Addendum.
8. For Detail 6/L-4.0: Stone dust surface to be used at ball field dugouts
9. For Details 12/L-4.0: HANDRAIL AT STAIRS. The rail shall extend 1'-0" beyond the rear of the post at the edge of the landing.

**FOR DRAWING NO L- 4.1 SITE DETAILS**

10. For changes to SITE PREPARATION METHODS AT WETLAND AND DETAIL 1/L-4.1 refer to Sheet SK-2 attached.
11. For Detail 3/L-4.1: The soil mix for shrub plantings. in Note #1 shall read as follows: "Improved Soil Mix: Soil medium consisting 50-60 % sand, 20-30% topsoil, and 20-30% leaf compost." This mix is ONLY for shrub plantings in the bio-retention swale/rain garden areas.
12. For **POST CONSTRUCTION METHODS AT WETLAND:** Notes shall read as follows:
  1. Subsequent to reconstruction of wetland, ensure that erosion and sediment control measures limit any and all vehicular or pedestrian access to bio-retention cells/rain gardens. Access may be allowed ONLY for adjustments to plantings or perimeter erosion and sediment control measures
  2. Subsequent to completion of new bio-retention cells/rain gardens, adjust orange "snow-fencing" around the area to ensure protection of new work and to limit access by any and all vehicles.
13. For **RAIN GARDEN (BIORETENTION CELL) INSTALLATION:** Notes shall read as follows:
  1. Note #6 shall read: If existing soil is not well-drained planting soil, remove existing soil to depth of at least 3'-0" or to water table. Fill bottom of cell with a 4-inch thick layer of washed gravel or stone. Price for washed gravel or stone to be unit price times quantity. Refer to Item 12, Addendum No 2 of revised Bid Proposal Form to provide unit price. Washed gravel or stone to comply with Section M.02.01 of CT DOT Form 816 for Granular Fill.
  2. Note #7 shall read: "Back fill rain garden (bioretention cell) with planting soil as per specifications for this contract."

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**FOR DRAWING NO L- 4.1 SITE DETAILS**

14. For Detail 1/L-4.2, "compacted *controlled* fill" shall read as ONLY "compacted fill".

**FOR DRAWING NO L- 4.1 SITE DETAILS**

15. For Detail 9/L-4.3 SAFETY NETTING: add the following:
1. Size of line posts to be as specified on page 2 of 3 of section 02872 under Part 2 Products Item 2.01 Ball Safety Netting B COMPONENTS – Item 1.
  2. Netting to be as specified on page 2 of 3 of Section 02872 under Part 2 Products Item 2.01 Ball Safety Netting A. BASE.

**FOR DRAWING NO L- 4.4 SITE DETAILS**

16. For Detail 2/L-4.4, The font for the lettering on the walking path sign shall be Century Gothic.
17. For Detail 3/L-4.4, refer to Sheet SK-3 for revisions.

**PART 2 - WRITTEN SPECIFICATION AMENDMENTS AND CLARIFICATIONS**

The following amendments and clarifications are made as a result of a review of plans subsequent to the advertisement for bid and the pre-bid conference.

1. Review to attached Exhibit B for revised bid form
2. Section 01020, page 2 of 2, Part 3- Execution, Section 3.3 SCHEDULE OF ALLOWANCES, Item A. **The Contingency Allowance of \$60,000 shall be DELETED FROM THE BID.**
3. Section 01340, Page 3 of 3, Section 3.2 CONSTRUCTION SCHEDULE, Item A shall read. "Construction to start upon receipt of Notice to Proceed and Purchase Order issued from the City of New London. Contractor must complete all work by June 1, 2014."
4. Section 02300, page 4 of 10, Section 2.2 SAND AND GRAVEL BASE AT ATHLETIC FIELDS. Eliminate this section in its entirety.

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5. Section 02300, page 6 of 10, Section 3.4 EXCAVATION WITHIN TREE PROTECTION ZONE. For clarification, there is one large tree to be protected as noted on the plans.
6. Section 02821, page 4 of 7, Section 2.5. I- Finish. Change Item 1.a to read as follows: "Type 2b polymer coating over metallic coating."

**PART 3 – RESPONSE TO QUESTIONS FROM PRE-BID CONFERENCE**

1. What is contractor responsibility for ensuring turf establishment for fields?

*Contractor is responsible for taking all necessary measures and precautions to ensure that fields are established and that an acceptable and substantial stand of turf as specified is provided to the Owner by June 1, 2014.*

2. What is the experience requirement for turf grass installers?

*Section 02920, page 3 of 13, Section 1.6 QUALITY ASSURANCE, of the specifications specifies the requirements for turf grass and field installers. We are also requesting that three (3) references for prior projects completed within the past 5 years, be provided with the contractor bid form. Section 02920 also specifies the necessary specifications for pesticide applicators.*

3. Where is the project staging area?

*The contractor may use the existing parking lot on Cottage Street as the project staging area. The new parking lot at the end of this street may be used ONLY for parking contractor automobiles. No heavy equipment or stockpiling of materials will be allowed on this newer lot.*

4. Is there irrigation for fields? If no irrigation, where is water available?

*The contract is not requesting irrigation of these fields due to underground conditions and cost. The contractor may access water from City of New London hydrants on Riverview Avenue or on Cottage Street. There will be a fee for water access. The contractor is advised to contact Veolia Water, 120 Broad Street, New London, CT 06320 860-447-5222. Fax: 860-437-6323.*

CITY OF NEW LONDON  
CALKINS PARK SITE IMPROVEMENTS

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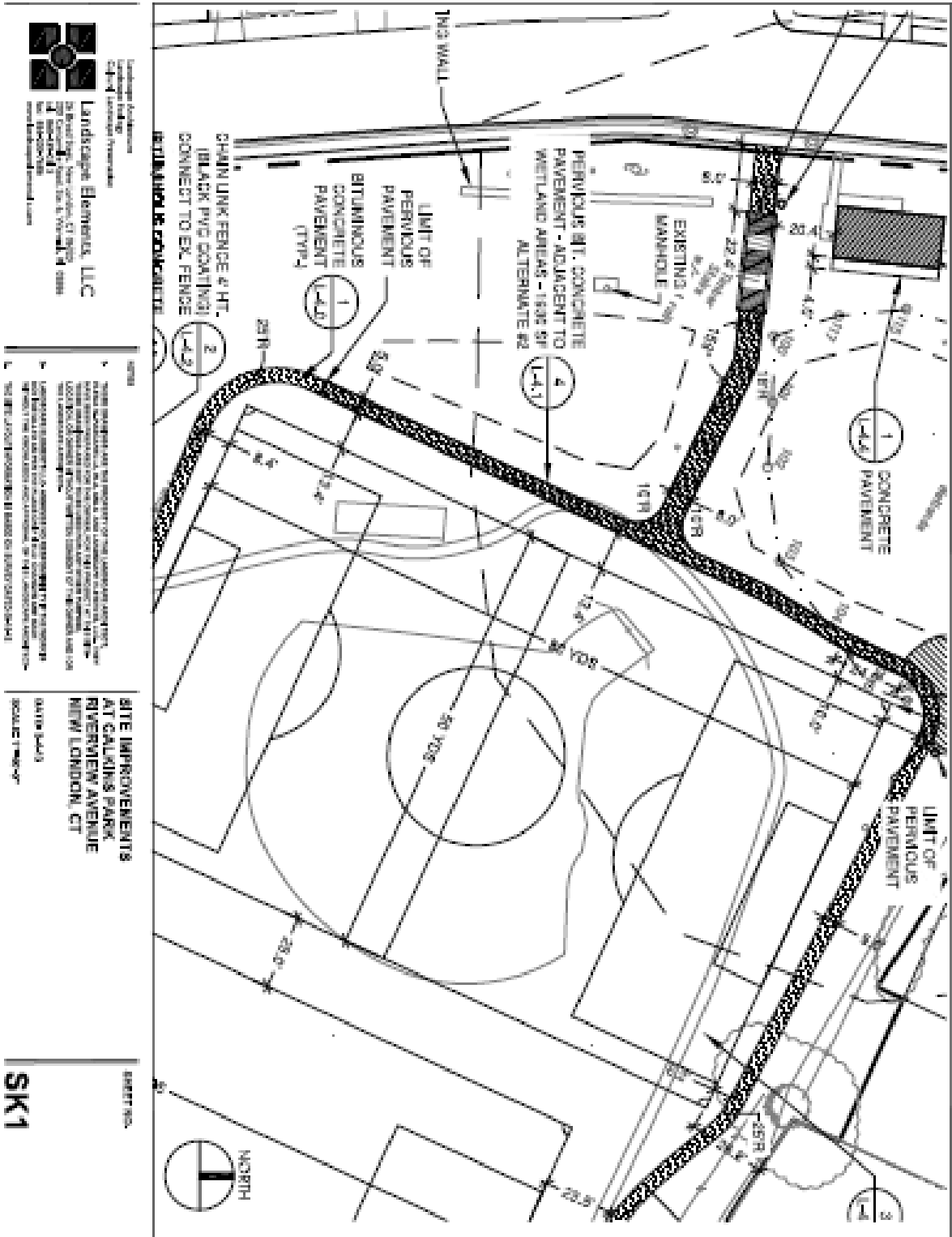
5. Are the building interiors accessible for viewing?

*The Riverview Avenue building does not require any interior work as part of this contract. **The restroom building at the parking lot on Cottage Street will be open for viewing of the interior restrooms on FRIDAY MARCH 8, 2013 BETWEEN 10:00AM AND NOON.***

6. Refer to Exhibit A for Hummel Soil Test Results for existing loam Stockpile
7. Refer to Exhibit B for REVISED BID PROPOSAL FORM – 7 PAGES.

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 CALKINS PARK SITE IMPROVEMENTS

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 Landscape Architecture  
 City of New London  
 Landscape Elements, LLC  
 200 Water Street, Suite 200  
 New London, CT 06320  
 Tel: 860-439-1111  
 www.landscapeelements.com

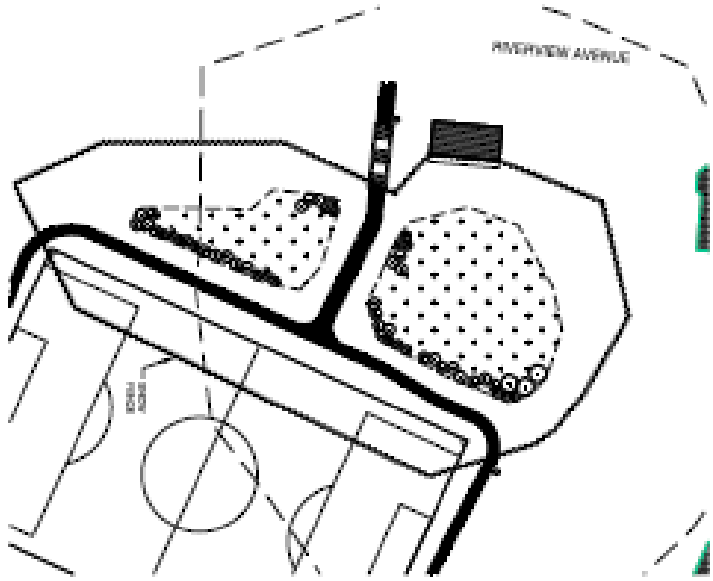
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW LONDON AND THE STATE OF CONNECTICUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW LONDON AND THE STATE OF CONNECTICUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW LONDON AND THE STATE OF CONNECTICUT.

**SITE IMPROVEMENTS**  
 AT CALKINS PARK  
 RIVERVIEW AVENUE  
 NEW LONDON, CT  
 DATE: 03/05/13  
 SCALE: 1/8"=1'-0"

SHEET NO.  
**SK1**

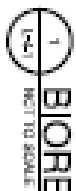
CITY OF NEW LONDON  
 CALKINS PARK SITE IMPROVEMENTS

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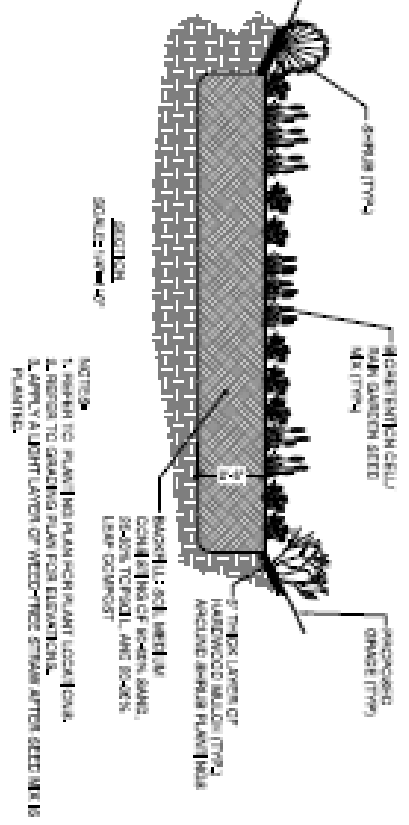


**SITE PREPARATION METHODS AT WETLAND**

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
2. INSTALL CHAINED SNOW FENCE AROUND AREA OF CONSTRUCTION TO LIMIT ACCESS FOR MOTORIST WORK ONLY.
3. EXISTING PLANT MATERIAL WITHIN EXISTING WETLAND WILL BE REMOVED AS PART OF SITE PREPARATION WORK.



**BIORETENTION CELL / RAIN GARDEN**



Landscape Architecture  
 1000 Main Street, Suite 200  
 New London, CT 06320  
 Phone: 860.545.1234  
 Fax: 860.545.1235  
 www.landscape.com

**Landscape Elements, LLC**  
 1000 Main Street, Suite 200  
 New London, CT 06320  
 Phone: 860.545.1234  
 Fax: 860.545.1235  
 www.landscape.com

**NOTES:**  
 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW LONDON AND THE STATE OF CONNECTICUT.  
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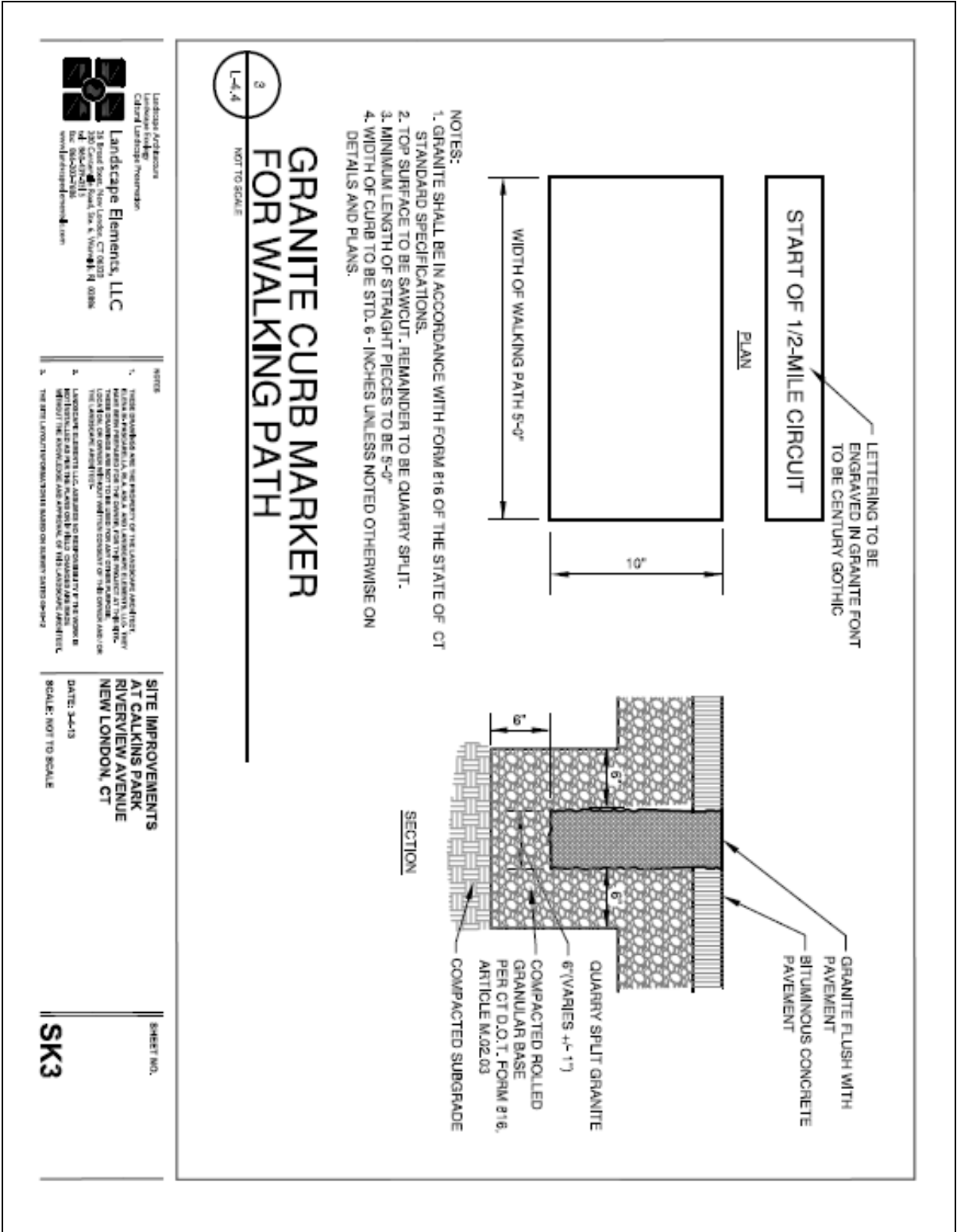
**SITE IMPROVEMENTS  
 AT CALKINS PARK  
 RIVERVIEW AVENUE  
 NEW LONDON, CT**

DATE: 04-11  
 SCALE: 1/4" = 1'-0"

SHEET NO.  
**SK2**

**CITY OF NEW LONDON  
CALKINS PARK SITE IMPROVEMENTS**

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**EXHIBIT A – SOIL TESTS**

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Hammel & Co., Inc. • 35 Gump Street • PO, Box 606 • Trumbull, New York 14884 • Phone: (607) 887-4004 • Fax: (607) 887-0489 • Web Site: www.hammelco.com



**MATERIALS TEST REPORT FOR  
Calkins Design**

**REPORT TO:** Phil Barlow  
TO Design  
114 West Main Street, Suite 201  
New Britain, CT 06601

**DATE RECEIVED:** July 30, 2012  
**TEST DATE:** July 30 - August 2, 8, 2012  
**REPORT DATE:** August 10, 2012  
**CONDITION OF SAMPLE:** Normal

**PARTICLE SIZE ANALYSIS (ASTM F-1632)**

Lab ID No.	Sample	Gravel %		Soil Separate %			Sieve Size/Sand Fraction Sand Particle Diameter				
		1/4"	No. 10 2 mm	Sand	Silt	Clay	No. 18 V. coarse 1 mm	No. 35 Coarse 0.5 mm	No. 60 Medium 0.25 mm	No. 140 Fine 0.10 mm	No. 270 V. fine 0.05 mm
31289-1	Calkins Park A	0.0	1.4	64.7	30.0	5.4	2.7	8.0	12.2	23.2	13.7
31289-2	Calkins Park B	0.1	0.4	61.2	29.9	7.0	3.5	12.8	17.5	17.8	11.5
31289-3	Topsoil Pile	5.7	3.2	65.8	26.7	7.4	3.8	8.7	19.3	22.1	11.8

**TEXTURAL CLASS /ORGANIC MATTER**

Lab ID No.	Sample	pH <sup>1</sup>	Organic Matter <sup>2</sup> (%)	Textural Class (USDA)
31289-1	Calkins Park A	5.7	4.49	Sandy loam
31289-2	Calkins Park B	4.8	6.06	Sandy loam
31289-3	Topsoil Pile	5.3	4.16	Sandy loam

1 ASTM D4972, method A, CaCl<sub>2</sub>; 25 g sample used. pH in water available on request.  
2 ASTM F1647, method 1

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TO Design/Calkins Park  
August 10, 2012  
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**Comments:** The soil samples (Lab ID No. 31289-1 to 31289-3) were tested as received. We have no specifications for this project but my understanding is that the soils will be used for sports fields. I also don't know what the expectations of the client are in terms of performance and intensity of use.

The results of the particle size analyses show that the samples were similar in particle size and would be classified as sandy loams, per the U.S. Department of Agriculture classification system. There was a small amount of fine gravel in the samples. The sand in the soil predominated in the very fine through medium sand size fractions, which is a little finer than desired.

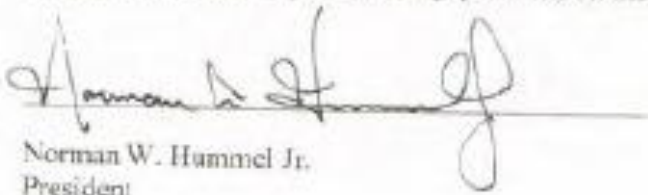
Sandy loams are fine textured soils that can be good grass growing soils due to their high water and nutrient storage capacities. They are often the textural class of choice for soil based sports fields. Sandy loams are prone to compaction and can be poorly drained when they are. Therefore, aeration will have to be a part of the maintenance program where these soils are used for high traffic areas. Since vertical drainage is likely to be limited, it will be important that any fields built with these soils are crowned or pitched ( $\geq 1.5\%$ ) to shed excess surface water from rainfall or snow melt. If that is not the case, small irregularities in grade may be a spot where water will pond.

Organic matter is another component of topsoil quality. For fine turf areas and most landscape installations, we recommend an organic matter content of between 4 and 8%. You can see that the samples had organic matters within this range.

The pHs were low enough to justify lime.

Based on these analyses, these are good quality topsoils, recognizing the limitations discussed. Samples were forwarded for chemical analysis. We will provide you with these results and suggested fertilizer amendments when the testing is completed.

Please let me know if you have any questions on these results or comments. Thank you



Norman W. Hummel Jr.  
President

**CITY OF NEW LONDON  
CALKINS PARK SITE IMPROVEMENTS**

ADDENDUM NO 2  
MARCH 5, 2013  
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**MATERIALS TEST REPORT FOR  
Caulkins Design**

**REPORT ID:** PH1 Barlow  
**TO Design:** TO Design  
 114 West Main Street, Suite 201  
 New Britain, CT 06051

**DATE RECEIVED:** July 30, 2012  
**TEST DATE:** July 30 - August 2, 2012  
**REPORT DATE:** August 2, 2012  
**CONDITION OF SAMPLE:** Normal

**PARTICLE SIZE ANALYSIS (ASTM F1632)**

Lab ID No.	Sample	Gravel %		Soil Separate %			Sieve Size/Sand Fraction Sand Particle Diameter % Retained				
		1/4" No. 10	2 mm No. 10	Sand	Silt	Clay	No. 10 V, coarse 1 mm	No. 35 Course 0.5 mm	No. 60 Medium 0.25 mm	No. 140 Fine 0.10 mm	No. 270 V, fine 0.05 mm
31289-1	Calkins Park A	0.0	1.4	64.7	30.0	5.4	2.7	8.0	12.2	23.2	18.7
31289-2	Calkins Park B	0.1	0.4	63.2	29.9	7.0	3.5	12.4	17.5	17.5	11.5
31289-3	Topsoil Pile	5.7	3.2	65.8	26.7	7.4	2.8	8.7	19.3	22.2	11.8

**TEXTURAL CLASS / ORGANIC MATTER**

Lab ID No.	Sample	Organic Matter (%)	Textural Class (USDA)
31289-1	Calkins Park A	4.49	Sandy loam
31289-2	Calkins Park B	6.00	Sandy loam
31289-3	Topsoil Pile	4.16	Sandy loam

1. ASTM F1647, method 1

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**Comments:** The soil samples (Lab ID No. 31289-1 to 31289-3) were tested as received. We have no specifications for this project but my understanding is that the soils will be used for sports fields. I also don't know what the expectations of the client are in terms of performance and intensity of use.

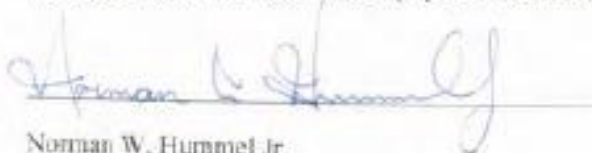
The results of the particle size analyses show that the samples were similar in particle size and would be classified as sandy loams, per the U.S. Department of Agriculture classification system. There was a small amount of fine gravel in the samples. The sand in the soil predominated in the very fine through medium sand size fractions, which is a little finer than desired.

Sandy loams are fine textured soils that can be good grass growing soils due to their high water and nutrient storage capacities. They are often the textural class of choice for soil based sports fields. Sandy loams are prone to compaction and can be poorly drained when they are. Therefore, aeration will have to be a part of the maintenance program where these soils are used for high traffic areas. Since vertical drainage is likely to be limited, it will be important that any fields built with these soils are crowned or pitched ( $\geq 1.5\%$ ) to shed excess surface water from rainfall or snow melt. If that is not the case, small irregularities in grade may be a spot where water will pond.

Organic matter is another component of topsoil quality. For fine turf areas and most landscape installations, we recommend an organic matter content of between 4 and 8%. You can see that the samples had organic matters within this range.

Based on these analyses, these are good quality topsoils, recognizing the limitations discussed. Samples were forwarded for chemical analysis. We will provide you with these results and suggested fertilizer amendments when the testing is completed.

Please let me know if you have any questions on these results or comments. Thank you.



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**EXHIBIT B REVISED BID PROPOSAL FORM**  
**7 PAGES**