



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DNRB12094

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

RFQ COPY

TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DIVISION OF NATURAL RESOURCES
 PARKS & RECREATION SECTION

324 4TH AVENUE
 SOUTH CHARLESTON, WV
 25303-1228 304-558-3397

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/08/2012				

BID OPENING DATE: 02/23/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
THIS ADDENDUM IS ISSUED TO:						
1) PROVIDE THE ATTACHED MANDATORY PRE-BID SIGN-IN SHEE						
2) PROVIDE THE PRE-BID MEETING NOTES.						
3) PROVIDE THE TECHNICAL QUESTIONS & ANSWERS.						
4) PROVIDE THE REVISED FORM OF PROPOSAL DATED 01/26/12						
5) PRIOVIDE THE ATTACHED TECHNICAL CLARIFICATIONS DATED 01/26/2012						
6) EXTEND THE DEADLINE FOR TECHNICAL QUESTIONS TO: 02/07/2012 AT 4:00 PM.						
7) EXTEND THE BID OPENING DATE AND TIME TO: 02/23/2012 AT 1:30 PM.						
***** END ADDENDUM NO. 1 *****						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

PRE-BID CONFERENCE
SIGN IN SHEET

Request for Quotation Number DNR B12094 Date 1/17/2012 Park Backwater Falls Contract 2

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

<p>Firm Name: <u>CAPTAIN VALLEY CONTRACTING</u> Firm Address: <u>67 Reese Drive</u> <u>Elkview WV 25071</u></p> <p>Representative Attending: <u>Andy Farnon</u> Phone Number: <u>(304) - 437-4505</u> Fax Number: <u>(304) - 965-2223</u> Email Address: <u>Mike@CapVal-Valley.com</u></p>	<p>Firm Name: <u>Jedens Construction Company, Inc</u> Firm Address: <u>501 5th Ave P.O. 1443</u> <u>Saint Albans WV 25177</u></p> <p>Representative Attending: <u>ARON BATTLE</u> Phone Number: <u>304-722-4237</u> Fax Number: <u>304-722-4230</u> Email Address: <u>aron@orders.construction.com</u></p>
<p>Firm Name: <u>Triple H Const</u> Firm Address: <u>Box 176</u> <u>Beaverdam WV 26253</u></p> <p>Representative Attending: <u>HOWARD HARPER</u> Phone Number: <u>304-636-1199</u> Fax Number: <u>304-636-4773</u> Email Address: <u>OPENHOUSE@tripleh.com</u></p>	<p>Firm Name: <u>Danhill Const. Co</u> Firm Address: <u>P.O. Box 685</u> <u>Cowley Bridge, WV 25085</u></p> <p>Representative Attending: <u>Dan Hill</u> Phone Number: <u>304-632-1600</u> Fax Number: <u>304-632-1501</u> Email Address: <u>Danhill1@hotmail.com</u></p>
<p>Firm Name: <u>Jimmy Dunn Excavating</u> Firm Address: <u>7414 Sissonville Dr</u> <u>Charleston WV 25320</u></p> <p>Representative Attending: <u>Mike Hoffman</u> Phone Number: <u>304-984-3246</u> Fax Number: <u>304-984-0319</u> Email Address: <u>mhoffman@jimmydunnexcavating.com</u></p>	<p>Firm Name: <u>Samett Construction</u> Firm Address: <u>P.O. Box 5250 Charleston WV</u> <u>25361</u></p> <p>Representative Attending: <u>Richard Wolford</u> Phone Number: <u>304-344-9140</u> Fax Number: <u>304-344-9143</u> Email Address: <u>Ed.Tyson@samett-construction.com</u></p>

PRE-BID CONFERENCE
SIGN IN SHEET

Request for Quotation Number DNRB 12094 Date 1/17/12 Park Blackwater Falls Contract 2

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

<p>Firm Name: <u>Oak Construction Co</u> Firm Address: <u>PO BOX 161 CHARLESTON WV 25322</u></p> <p>Representative Attending: Phone Number: <u>(304) 347-8820</u> Fax Number: <u>(304) 347-8821</u> Email Address: <u>lcarney@oakconstruction.com</u></p>	<p>Firm Name: <u>G.A. Brown & Son</u> Firm Address: <u>215 Mill St Fairmont, WV 26554</u></p> <p>Representative Attending: Phone Number: <u>Audrey Taylor 304.363.4500</u> Fax Number: <u>304.366.9456</u> Email Address: <u>gabrown.com</u></p>
<p>Firm Name: <u>Green Rural Group LLC</u> Firm Address: <u>530 Ashland St. Martinsburg WV 26158</u></p> <p>Representative Attending: Phone Number: <u>Bob (Alfred) Jr 304.594-3901</u> Fax Number: <u>304-594-3902</u> Email Address: <u>SCALPAT@GRLG.COM</u></p>	<p>Firm Name: <u>Blackwater Falls State Park</u> Firm Address: <u>40 Bas 44 Davis, WV 26260</u></p> <p>Representative Attending: Phone Number: <u>Rob Gilligan, Superintendent 304-259-5216</u> Fax Number: <u>304-259-5881</u> Email Address:</p>
<p>Firm Name: <u>Riffle Contracting LLC</u> Firm Address: <u>PO box 418 WV 26531</u></p> <p>Representative Attending: Phone Number: <u>Jason Riffle 304-685-4722</u> Fax Number: <u>304-241-4354</u> Email Address: <u>R.RifleContracting@gmail.com</u></p>	<p>Firm Name: <u>WV DNR</u> Firm Address: <u>Parks & Recreation 1200 Harpers Ave Suite 222 Elkins WV 26241</u></p> <p>Representative Attending: Phone Number: <u>Deborah Damron 304-637-0350</u> Fax Number: <u>304-637-0303</u> Email Address: <u>Debbie.D.Damron@wv.gov</u></p>

**Blackwater Falls State Park
Sled Run Improvements Project
Contract 2 – Snow Making Systems
Requisition DNRB12094
Addendum No. 1
January 26, 2012**

1. Date for receipt of technical questions shall be changed to 02/07/2012
2. List of attendees of the pre-bid meeting are attached.
3. Pre-bid Conference Meeting Notes are attached.
4. Bidder questions and answers are attached.
5. The attached Form of Proposal marked "REVISED January 26, 2012" shall be used for bid submittal.
6. The Contract Time shall be changed to 240 calendar days. The project shall be completed no later than November 30, 2012. Disregard other references to contract times. This time is excluding equipment Startup, Operator Training, and System Optimization. Retainage may be withheld until equipment Startup, Operator Training, and System Optimization is complete.
7. Technical Clarifications dated January 26, 2012, are attached.
8. Bidders should indicate receipt of this addendum in the space provided on the Request for Quotation.
9. This Addendum, as well as attachments, will be part of the Contract Documents.

-- end of addendum, not including attachments --

-- five (5) attachments are included --

Blackwater Falls State Park
Sled Run Improvements Project
Contract 2 – Snow Making Improvements
Requisition DNR B12094

Pre-Bid Conference Notes
January 17, 2012

1. Brad Leslie reviewed bidding requirements emphasizing the following:
 - Mandatory pre-bid, bidders must sign in..
 - Reviewed invitation to bid and form of proposal.
 - Reviewed instruction to bidders. Bidders must follow bidding requirements of the RFQ.
 - Reviewed bid opening date, time and place.
 - Reviewed procedure for issuing addenda.
 - Reviewed insurance and bond requirements.
 - Reviewed Owner's line of contract administration authority.
 - Reviewed contract completion time.
 - Reviewed liquidated damages.
 - Reviewed pay application procedures.
 - Reviewed process for requesting substitutions. Requests must come from bidders attending the pre-bid conference and should be submitted to Frank Whittaker.
2. The deadline for technical questions will be extended to February 2, 2012. Technical questions must be submitted to Frank Whittaker.
3. The bid form will be in accordance with the one in the Project Manual. It will be included in the first addendum.
4. The contract needs to be completed no later than November 30, 2012.
8. Joe Bird reviewed the technical aspects of the project.
9. The need for bidders to review the earthwork specification was emphasized and to review the testing requirements of the earthwork.
10. To the best of the knowledge of the Owner and the Architect, there are no permits that need to be obtained by the Contractor. This does not relieve the Contractor of the responsibility of verifying permit requirements and obtaining any permits that may be required. The Owner is in the process of obtaining a Sediment and Erosion Control permit.
11. Unsuitable soil or rock materials may be disposed of on Park property as directed by the Park Superintendent. Waste sites shall require proper sediment and erosion control measures.
12. If the removal of unsuitable materials is required beyond what is indicated on the drawings, it will be treated as a change in conditions.
13. Bidders were advised that the project area is environmentally sensitive and that clearing of vegetation should be minimized.
14. The pre-bid conference concluded with a tour of the project site.

-- end of meeting notes --

**Blackwater Falls State Park
Sled Run Improvements Project
Contract 2 – Snow Making Improvements
Requisition DNR B12094**

Bidder Questions and Answers
January 26, 2012

Q: Is there a field office required for the project?

A: No.

Q: Can you provide an exact location(s) for possible waste sites within the Park?

A: Waste sites will be located within three (3) miles of the project site, within the park. Multiple waste sites will be available and may be required. The contractor is reminded they will be responsible for sediment and erosion control measures at the waste sites, and waste material may be required to be evenly spread, bermed, or otherwise specifically placed at the sites. No compaction or other quality control is required at waste sites beyond seeding & mulching and other environmental controls, as required by the WV DEP's Sediment and Erosion Control Best Management Practices Manual.

Q: Disposal of materials section 2110 3.2 "B" seems to conflict with section 2200 3.19 "A thru D" which is correct?

A: Requirements of Section 02200, Article 3.19, shall govern.

Q: Is the contractor responsible for all QA/QC portions of the work?

A: Yes.

Q: Is the material contained with the pond excavation capable and or suitable for use as pond embankment according to section 2200-5 "K" ?

A: If the excavated materials meet the specification for acceptable materials it may be used for pond embankment.

Q: Is it the intent of the contract to place the pond embankment @ 0-3% optimum at 95% density?

A: The original specifications call for fill to be to be 0% to 3% of optimum moisture content and to be compacted to a minimum density of 98%. Refer to Technical Clarifications section of Addendum No. 1 for revised moisture content criteria for various fill materials.

Q: In looking at the roads throughout the Park, it appears that there could be a fair amount of damage to the roads by dump trucks during the waste process, how will this damage be addressed and at whose expense?

A: Damage to existing roads shall be repaired by the Contractor. Prior to commencement of work, the Contractor shall submit to the Engineer two copies of a video recording of the project site, including roads and shoulders from the park entrance to the project site, as well as from the project site to waste areas. No other concurrent construction is anticipated to require an appreciable amount of heavy truck traffic within the park.

Q: Should there be a minimum of 6" of soil placed on top of the Pond Rock Fill prior to placing the Geotextile and the Geomembrane materials?

A: The specific liner used as the basis of design allows the use of a non-woven geotextile in lieu of a soil or sand layer. Refer to specification section 13201-3.1. If an "or equal" Geomembrane liner is supplied subgrade preparation shall be in accordance with the manufacturer's written installation instructions.

Q: Will all of the submitted questions submitted by various contractors and answers be shared with all prospective bidders?

A: Yes.

Q: What is the desired pond bottom elevation?

A: The pond bottom varies in elevation from 3128' to 3127' at the locations indicated on sheet C4. Contours are provided for reference on sheet C4 at 1-foot intervals.

Q: What, if any, variation from this can there be in the desired elevation [pond bottom elevation]?

A: Refer to Technical Clarifications section of Addendum No. 1

Q: Does the engineer/geotech engineer expect any rock removal to be necessary to achieve the desired pond bottom elevation?

A: All excavation is unclassified, as such no opinions from the engineer or geotechnical engineer will be given. Bidders are encouraged to perform such subsurface site explorations as desired to confidently prepare their bids. Contact park staff for site access.

-- end --

**Blackwater State Park
Contract 2 - Sled Run Improvements Project
DIVISION OF NATURAL RESOURCES**

REVISED January 26, 2012

FORM OF PROPOSAL-1

Name of Bidder:

Address of Bidder:

Phone Number of Bidder:

WV Contractors License No.

We, the undersigned, having examined the site and being familiar with the local conditions affecting the cost of the work and also being familiar with the general conditions to bidders, drawings, and specifications, hereby proposes to furnish all materials, equipment, and labor to complete all work in a workmanlike manner, as described in the Bidding documents.

Base Bid

The Base Bid shall consist of the installation of a new snow making system, a pump building, construction of the pond expansion, and 2 snow guns. Two additional snow guns shall be included in Additive Alternate No. 1.

Unit Prices will not be considered as a factor in the award of the Contract. Unit Price is an amount as a price per unit of measurement for materials and labor services that will be added or deducted from the Contract Price by Change Order in the event the estimated quantities of Work required by the Contract Documents are increased or decreased. Award of the Contract shall be made to the lowest qualified Bidder whose proposal conforms to the cited requirements based on the Base Bid or the lowest combination of the Base Bid and Alternate Bid Items, as selected by the Owner.

Unit prices are provided for portions of the work as listed below:

**Blackwater State Park
 Contract 2 - Sled Run Improvements Project
 DIVISION OF NATURAL RESOURCES**

REVISED January 26, 2012

FORM OF PROPOSAL-2

Amounts to be shown in both words and figures. In case of a discrepancy, the amount in words shall govern.

<u>QTY.</u>	<u>UNIT</u>	<u>DESCRIPTION</u> <u>UNIT PRICE IN WORDS</u>	<u>UNIT PRICE</u> <u>IN FIGURES</u>	<u>TOTAL PRICE</u> <u>IN FIGURES</u>
12,500	C.Y.	Pond Excavation _____ Dollars and _____ Cents	\$ _____	\$ _____
2,500	C.Y.	Pond Fill _____ Dollars and _____ Cents	\$ _____	\$ _____
7,100	C.Y.	Rock Fill _____ Dollars and _____ Cents	\$ _____	\$ _____

Base Bid: Lump sum for all labor, materials, and equipment as stipulated in the Bidding Documents, written in numbers.

Base Bid: Lump sum for all labor, materials, and equipment as stipulated in the Bidding Documents, written in words.

Additive Alternates

The following Additive Alternate Bid Items are not to be included in the Base Bid. If the Additive Alternate is selected by the Owner, the work described in the Additive Alternate shall be added to the Contract and the amount indicated for the Additive Alternate shall be added to the Base Bid. The cost for each alternate is the net addition to the Base Bid to add the alternate to the Work. No other adjustments shall be made to the Base Bid or Contract amount.

No.	Description	Amount in Words	Amount in Figures
1	Two (2) snow guns.		

The contract award shall be based on the lowest base bid or the lowest combination of the base bid and alternate bid items, as selected by the Owner. The alternate bid items will be selected in the order indicated in the Form of Proposal.

The bidder understands that to the extent allowed by the West Virginia Code, the Owner reserves the right to waive any informality or irregularity in any Bid, or Bids, and to reject any or all Bids in whole or in part; to reject a bid not accompanied by the required bid security or by other data required by the Bidding Documents; to reject any condition of the bid by the Bidder that is in any way inconsistent with the requirements, terms and conditions of the Bidding Documents; or to reject a bid that is in any way incomplete or irregular.

The Bidder, if successful and awarded the contract, agrees that all work is to be completed within **240** consecutive calendar days following receipt of the Owner's written Notice to Proceed, and shall be completed by November 30, 2012. For each calendar day of delay in achieving completion, the Contractor shall be liable for, and shall pay the Owner liquidated damages in the amount of \$250 per day.

Any work performed or any materials contracted for prior to the receipt of the Owner's written Notice to Proceed, shall be at the Bidder's risk.

PROGRESS PAYMENTS - The CONTRACTOR will make current estimates in writing once each month on AIA Forms G702 and G703 on or before the date set by the OWNER at the time of starting the WORK. The progress payments shall be a true estimate of the materials complete in place and the amount of WORK performed in accordance with the CONTRACT during the preceding month and the value thereof figured at the CONTRACT unit prices or based on the approved schedule of value. Should there be any doubt of the OWNER as to the integrity of any part of the COMPLETED work, the estimates for that portion will not be allowed modified by the CONTRACTOR accordingly. CONTRACTOR shall submit evidence to document the extent of progress payments as required by the OWNER.

Progress payments will not be made when the total value of the WORK done since the last estimate amounts to less than Five Hundred Dollars (\$500.00). From the total of the amounts ascertained as payable, an amount equivalent to and in accordance with Article 9 of A201-2007 Supplementary Conditions of the State of West Virginia will be deducted and retained by the OWNER until completion of the entire CONTRACT in an acceptable manner. The balance, less all previous payments, will be certified for payment by the OWNER.

When the WORK under contract has been completed and its acceptance is recommended by the OWNER, the retainage shall be released and paid to the CONTRACTOR.

ADDENDUM ACKNOWLEDGEMENT

I hereby acknowledge receipt of the following checked addendum and have made the necessary revisions to my bid or proposal.

Addendum No.	Date

I understand that failure to confirm the receipt of the Addendum is cause for rejection of my bid or proposal.

Respectfully submitted:

Date:

WV Vendor Registration Number:

By: (signature in ink)

Title:

Firm Name:

Firm Address:

5. Replace specification section 02200, 3.12-H with the following:

Compact fill to minimum 98% of the material's maximum dry density value as determined by ASTM Standard Test Method D698. Granular materials composed of coarse sand or gravel, of uniform size or with low fines content shall be compacted to 75% of the material's maximum relative density value per ASTM Standard Test Methods D4253 and D4254.

6. Add the following to specification section 01150:

1.5 METHOD OF MEASUREMENT AND PAYMENT

- A. The method of measurement and basis of payment for each item as listed in the Form of Proposal shall be as stipulated in the following subparagraphs.

1. Pond Excavation. Excavation required for construction of the pond will be paid per cubic yard. Excavation is unclassified and shall include all excavated materials, including any undercut which may be required. Excavation volume shall be based on in-situ volumes determined by field survey. Refer to specification section 01050 - Field Engineering for survey requirements.
2. Pond Fill. All fill materials, except Rock Fill, required to be placed to bring pond and embankment to final grade will be paid for per cubic yard. Quantities shall be based on fill materials compacted, in place, at final grade as indicated on the plans. Refer to specification section 01050 - Field Engineering for survey requirements.
3. Rock Fill. All Rock Fill materials, as identified on the Drawings and specification 02200 - Earthwork, shall be paid per cubic yard. Quantities shall be based on materials compacted, in place, at final grade as indicated on the plans. Refer to specification section 01050 - Field Engineering for survey requirements.

7. Add the following to specification section 01050, 3.1:

D. Quantity Surveys

1. The Contractor shall provide field survey of existing conditions, excavation limits, and final in-place improvements as required to determine unit quantities as indicated on the Form of Proposal. The Contractor's Surveyor shall establish temporary bench marks as required to complete quantity surveys. Quantities will be determined based on computer generated surfaces, or by Average-End method from cross sections of work area along a straight centerline, at intervals not to exceed 20'.

CHAPMAN TECHNICAL GROUP



Stephen M. Johnson, PE
Project Engineer

SCANNED BY: [unreadable] DATE: [unreadable]