

September 2, 2010

# Expression of Interest

## Sled Run Improvements Blackwater Falls State Park

RFQ# B11013

Davis, West Virginia



**E.L. ROBINSON**

*the Challenge. the Choice.*™

E.L. Robinson Engineering Co.  
5088 Washington Street, West  
Charleston, WV 25313  
Phone: (304) 776-7473  
Fax: (304) 776-6426  
[www.elrobinson.com](http://www.elrobinson.com)

RECEIVED

2010 SEP -2 AM 10: 25

WV PURCHASING  
DIVISION

September 2, 2010

Mr. Frank Whittaker, Senior Buyer  
Purchasing Division  
2019 Washington Street, East  
P.O. Box 50130  
Charleston, WV 25305-0130

Reference: Expression of Interest for Sled Run Improvements  
Blackwater Falls State Park - RFQ No. DNRB11013

Dear Mr. Whittaker,

**E.L. Robinson Engineering Co. (ELR)** is pleased to have the opportunity to submit our qualifications for the referenced project.

ELR has assembled a great design team with a proven background of assisting WVDNR on past projects. We have also partnered with some key consultants with extensive history in the snow sports industry.

Fortunately, we were able to connect with Mr. John Dearborn, a Harman, WV based representative with Doppelmayr/Garaventa Group, a world leader in ski lifts. Mr. Dearborn services the Mid Atlantic ski resorts and put us in contact with firms he recommends for snowmaking and conveyor type ski lifts, HKD Snowmakers and Star Lifts, respectively.

We have also teamed with a St Albans, WV based electrical/ mechanical engineering firm, Harper Engineering to assist with the lighting and electrical elements associated with all the aspects of the project.

ELR ideally suited to assist WVDNR on this project with design professionals from the fields of surveying, engineering, landscape architecture, and construction inspectors and with our key consultants, our team will offer the appropriate practical solutions for completing the construction of the new sled run.

We have attached the required Purchasing Division documentation and 3 original copies of our expression of interest. We welcome the opportunity to assist the State of West Virginia with this project.

Sincerely,

  
Jeff Neisen, R.I.A.  
Project Manager.



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  
 DNRB11013

PAGE  
 1

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

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

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
08/03/2010				

OPENING DATE: 09/02/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
1	1	LS		906-00-00-001		
ARCHITECTURAL/ENGINEERING SERVICES						
EXPRESSION OF INTEREST (EOI)						
<p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL ENGINEERING AND RELATED SERVICES TO DESIGN, CONSTRUCT, OR SPECIFY IMPROVEMENTS TO THE SLED RUN AT BLACKWATER FALLS STATE PARK PER THE ATTACHED.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS PROJECT MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 08/16/2010 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE HAS LAPSED.</p> <p>QUESTIONS CONCERNING THE ACTUAL PROCESS BY WHICH A FIRM MAY SUBMIT AN EXPRESSION OF INTEREST TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TO BE TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN ANY FORMAT.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

TELEPHONE: 304-776-7473 DATE: 9-1-10

FEIN: 550594633 ADDRESS CHANGES TO BE NOTED ABOVE

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.htm](http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) 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).



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

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2

ADDRESS CORRESPONDENCE TO ATTENTION OF
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304-558-2316

VENDOR

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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	FOB	FREIGHT TERMS
08/03/2010				

OPENING DATE: 09/02/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
EXHIBIT 10						
REQUISITION NO.: .....						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO. S:						
NO. 1 .....						
NO. 2 .....						
NO. 3 .....						
NO. 4 .....						
NO. 5 .....						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF PROPOSALS.						
VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.						
..... SIGNATURE						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
TURE	TELEPHONE	DATE
FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
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OPENING DATE: 09/02/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
..... COMPANY ..... DATE						
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE PROPOSAL.  REV. 09/21/2009  BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.  NOTICE  A SIGNED EOI MUST BE SUBMITTED TO:  DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130   THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:  SEALED EOI						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
PHONE	TELEPHONE	DATE
FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
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# Request for Quotation

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**DNRB11013**

PAGE  
**4**

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**FRANK WHITTAKER**  
**304-558-2316**

VENDOR

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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
08/03/2010				

OPENING DATE: **09/02/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BUYER:				44		
EOI. NO.:				DNRB11006		
BID OPENING DATE:				09/02/2010		
EOI OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR PROPOSAL						
				<b>304-776-6426</b>	-----	
CONTACT PERSON (PLEASE PRINT CLEARLY):						
				<b>JEFF L. NELSEN</b>	-----	
***** THIS IS THE END OF RFQ DNRB11013 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

DATE	<b>9-1-10</b>
TELEPHONE	<b>304-776-7473</b>
FAX	<b>550594633</b>
ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**EXPRESSION OF INTEREST  
Blackwater Falls State Park  
Sled Run Improvements  
DNR# DNRB11013**

**Part 1 GENERAL INFORMATION**

**1.1 Purpose:**

The Acquisition and Contract Administration Section of the Purchasing Division "State" is soliciting Expression(s) of Interest (EOI) for West Virginia Division of Natural Resources, Parks and Recreation Section, "Agency", from qualified firms to provide architectural and engineering services as defined in section two (2) and three (3).

**1.2 Project:**

The mission or purpose of the project described in sections 2 & 3 is to provide professional architectural and engineering services pursuant to the following objectives:

Provide necessary professional architectural, engineering and related services to design, construct or specify improvements to the Sled Run at Blackwater Falls State Park.

**1.3 Format: N/A**

**1.4 Inquiries:**

Additional information inquiries regarding this EOI must be submitted in writing to the State Buyer with the exception of questions regarding proposal submission, which may be oral. The deadline for written inquiries is identified in the Schedule of Events, Section 1.16. All inquiries of specification clarification must be addressed to:

Frank Whittaker, Senior Buyer  
Purchasing Division  
P.O. Box 50130  
Charleston, WV 25305-0130  
Fax: (304) 558-4115

**The firm, or anyone on the firm's behalf, is not permitted to make any contact whatsoever with any member of the evaluation committee. Violation may result in rejection of the EOI. The State Buyer named above is the sole contact for any and all inquiries after this EOI has been released.**

**1.5 Vendor Registration:**



Firms participating in this process should complete and file a **Vendor Registration and Disclosure Statement** (Form WV-1) and remit the registration fee. Firm is not required to be a registered vendor in order to submit an EOI, but the **successful firm must** register and pay the fee prior to the issuance of an actual contract.

**1.6 Oral Statements and Commitments:**

Firm must clearly understand that any verbal representations made or assumed to be made during any oral discussions held between firm's representatives and any State personnel are **not** binding. Only the information issued in writing and added to the Expression of Interest specifications file by an official written addendum is binding.

**1.7 Economy of Preparation:**

EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements of the EOI. Emphasis should be placed on completeness and clarity of content.

**1.8 Labeling of the Sections:** The response sections should be labeled for ease of evaluation.

**1.9 Submission:**

1.9.1 State law requires that the original expression shall be submitted to the Purchasing Division. All copies to the Purchasing Division must be submitted **prior** to the date and time stipulated as the opening date. All expressions will be date and time stamped on the Purchasing Division official time clock to verify time and date of receipt.

1.9.2 Firms mailing expressions should allow sufficient time for mail delivery to ensure timely arrival. The Purchasing Division **CANNOT** waive or excuse late receipt of an expression which is delayed and late for any reason according West Virginia State Code §5A-3-11. Any EOI received after the bid opening time and date will be immediately disqualified in accordance with State law and the Legislative Rule 148-CSR-1.

**Submit:**

One original plus (3) convenience copies to:  
Purchasing Division  
2019 Washington Street, East  
P.O. Box 50130  
Charleston, WV 25305-0130

The outside of the envelope or package(s) should be clearly marked:

Buyer:  
Req#:  
Opening Date:

## Opening Time:

### 1.10 **Rejection of Expressions:**

The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. However, the State reserves the right to accept or reject any or all expressions and to reserve the right to withdraw this Expression of Interest at any time and for any reason. Submission of, or receipt by the State of Expressions confers no rights upon the firm nor obligates the State in any manner.

### 1.11 **Incurring Costs:**

The State and any of its employees or officers shall not be held liable for any expenses incurred by any firm responding to this EOI for expenses to prepare, deliver, or to attend the short-list interviews.

### 1.12 **Addenda:**

If it becomes necessary to revise any part of this EOI, an official written addendum will be issued by the State to all potential firms of record.

### 1.13 **Independent Price Determination:**

A contract will not be considered for award if the negotiated price was not arrived at independently without collusion, consultation, communication, or agreement as to any matter relating to prices with any competitor.

### 1.14 **Price Quotations:** No "price" or "fee" quotation is requested or permitted in the response.

### 1.15 **Public Record:**

#### 1.15.1 *Submissions are Public Record.*

All documents submitted to the State Purchasing Division related to purchase orders/contracts are considered public records. All EOI's submitted by firms shall become public information and are available for inspection during normal official business hours in the Purchasing Division Records and Distribution center after the expressions have been opened.

#### 1.15.2 *Written Release of Information.*

All public information may be released with or without a Freedom of Information request, however, only a written request will be acted upon with duplication fees paid in advance. Duplication fees shall apply to all requests for copies of any document. Currently the fees are \$0.50/page, or a minimum of \$10.00 per request, which ever is greater.

#### 1.15.3 *Risk of Disclosure.*

The only exemptions to disclosure of information are listed in West Virginia Code

§29B-1-4. Primarily, only trade secrets as submitted by a firm are the only exemption to public disclosure. The submission of any information to the State by a firm puts the risk of disclosure on the firm. The submission of any information to the State by a vendor puts the risk of disclosure on the vendor. The State does not guarantee non-disclosure of any information to the public.

**1.16 Schedule of Events:**

Release of the EOI  
Firm's Written Questions Submission Deadline.  
Addendum Issued  
Expressions of Interest Opening Date  
Estimated Date for Interviews TBD

**1.17 Mandatory Prebid Conference: Not Applicable**

**1.18 Bond Requirements: Not Applicable**

**1.19 Purchasing Affidavit:**

West Virginia State Code §5A-3-10a (3) (d) requires that all firms submit an Affidavit regarding any debt owed to the State and licensing and confidentiality certifications. The Affidavit **must** be signed and submitted prior to award. It is preferred that the Affidavit be submitted with the EOI.

**PART 2 OPERATING ENVIRONMENT**

**2.1 Location:** Agency is located at the following address:

West Virginian Division of Natural Resources  
Parks and Recreation Section  
324 4<sup>th</sup> Avenue  
South Charleston, WV 25305

Facilities where work will be performed:

Blackwater Falls State Park  
RR 29, PO Drawer 490  
Davis, WV 26260-0490

## **2.2 Background:**

The Division of Natural Resources operates a sled run facility at Blackwater Falls State Park. This facility was planned and constructed beginning around 1959 and improvements, upgrades and replacement facilities are necessary. Some improvements were originally planned in conjunction with the current cabin construction project but budget constraints forced the elimination of it from that project. This Project represents a significant increase in scope from that portion of the original project.

## **PART 3 PROCUREMENT SPECIFICATIONS**

### **3.1 General Requirements:**

Provide described services in accordance with applicable state code and accepted engineering standards.

### **3.2 Project Description:**

Provide professional architectural and engineering services pursuant to the following objectives:

Provide necessary professional architectural, engineering and related services to design, construct, or specify certain improvements to the sled run at Blackwater Falls State Park.

Improvements may include; construction of two wells and enlargement of an existing pond to provide a snowmaking water supply, snowmaking water distribution system including a pump house pump and lines, snowmaking equipment, necessary electrical service upgrades, area lighting for sled run, necessary site grading, surface lift or tow system, and other related improvements in Tucker County, West Virginia.

The professional architectural and engineering services desired include those necessary to effectively plan for the most effective and economical improvements, necessary design of the improvements, production of bidding documents and

construction contract administration including but not limited to, the evaluation of submittals necessary to insure compliance with the design parameters, and other necessary and related services as may be determined during the scope and fee negotiations of this agreement. Additionally, procurement of necessary environmental and other regulatory approvals and permits will be required, including but not limited to the Division of Culture and History, Department of Health and the Division of Environmental Protection.

The successful firms must demonstrate a proven record of success with similar projects including design, construction document preparation, cost estimation, construction contract administration. Expertise should be demonstrated by the firm or its sub-consultants in all areas or disciplines necessary for successful completion of this project. At a minimum, these disciplines or areas will include Civil, Electrical, and Mechanical Engineering with some active member of the design team having significant experience with design and construction of ski areas and be thoroughly familiar with American National Standard Safety Requirements for Passenger Ropeways, Aerial Tramways, Aerial Lifts, Surface Lifts, Tows and Conveyors designated as ANSI B77.1 – 2006. They must also demonstrate procedures to provide timely response to owner issues and have an effective procedure to communicate with the owner's representative for the project. Additionally, funding restrictions on this project dictate that the successful firm must demonstrate that they have effective procedures to go from execution of the contract for design to construction completion on budget in 3 years or less.

### 3.3 **Special Terms and Conditions:**

3.3.1 *Bid and Performance Bonds:* N/A

3.3.2 *Insurance Requirements:* \$1,000,000 General Liability per Occurrence  
\$2,000,000 Aggregate  
\$1,000,000 Automobile Liability  
\$1,000,000 Professional Liability  
Workers Compensation Certificate upon award  
West Virginia Statutory requirements including  
West Virginia Code §23-4-2 (Mandolidis)

### 3.4 **General Terms and Conditions:**

By signing and submitting the EOI, the successful firm agrees to be bound by all the terms contained in Section Three (3) of this EOI.

#### 3.4.1 *Conflict of Interest:*

Firm affirms that it, its officers or members or employees presently have no interest and shall not acquire any interest, direct or indirect which would conflict or

compromise in any manner or degree with the performance or its services hereunder. The firm further covenants that in the performance of the contract, the firm shall periodically inquire of its officers, members and employees concerning such interests. Any such interests discovered shall be promptly presented in detail to the Agency.

**3.4.2 *Prohibition Against Gratuities:***

Firm warrants that it has not employed any company or person other than a bona fide employee working solely for the firm or a company regularly employed as its marketing agent to solicit or secure the contract and that it has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award of the contract. For breach or violation of this warranty, the State shall have the right to annul this contract without liability at its discretion, and/or to pursue any other remedies available under this contract or by law.

**3.4.3 *Certifications Related to Lobbying:***

Firm certifies that no federal appropriated funds have been paid or will be paid, by or on behalf of the company or an employee thereof, to any person for purposes of influencing or attempting to influence an officer or employee of any Federal entity, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the firm shall complete and submit a disclosure form to report the lobbying.

Firm agrees that this language of certification shall be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this contract was made and entered into.

**3.4.4 *Vendor Relationship:***

The relationship of the firm to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this contract. The firm as an independent

contractor is solely liable for the acts and omissions of its employees and agents.

Firm shall be responsible for selecting, supervising and compensating all individuals employed pursuant to the terms of this EOI and resulting contract. Neither the firm nor any employees or contractors of the firm shall be deemed to be employees of the State for any purposes whatsoever.

The Firm shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred compensation plans, including but not limited to Workers' Compensation and Social Security obligations, and licensing fees, etc. and the filing of all necessary documents, forms and returns pertinent to all of the foregoing.

The Firm shall hold harmless the State, and shall provide the State and Agency with a defense against all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns.

The firm shall not assign, convey, transfer or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.

#### **3.4.5 *Indemnification:***

The firm agrees to indemnify, defend and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials or supplies in connection with the performance of the contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the firm, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use or disposition of any data used under the contract in a manner not authorized by the contract, or by Federal or State statutes or regulations; (3) Any failure of the firm, its officers, employees or subcontractors to observe State and Federal laws, including but not limited to labor and wage laws.

#### **3.4.6 *Contract Provisions:***

After the most qualified firm is identified, and fee negotiations are concluded, a formal contract document will be executed between the State and the firm. The order of precedence is the contract, the EOI and the firm's response to the EOI.

#### **3.4.7 *Governing Law:***

This contract shall be governed by the laws of the State of West Virginia. The firm further agrees to comply with the Civil Rights Act of 1964 and all other applicable laws (Federal, State or Local Government) regulations.

**3.4.8 Compliance with Laws and Regulations:**

The firm shall procure all necessary permits and licenses to comply with all applicable laws, Federal, State or municipal, along with all regulations, and ordinances of any regulating body.

The firm shall pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this contract, the transaction, or the equipment, or services delivered pursuant here to shall be borne by the contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this contract.

**3.4.9 Subcontracts/Joint Ventures:**

The State will consider the firm to be the sole point of contact with regard to all contractual matters. The firm may, with the prior written consent of the State, enter into written subcontracts for performance of work under this contract; however, the firm is totally responsible for payment of all subcontractors.

**3.4.10 Term of Contract:**

This contract will be effective (date set upon award) and shall extend until the scope of work is complete or for one (1) consecutive twelve (12) month period. The contract may be renewed upon mutual consent for two (2) consecutive years one (1) year periods or until such reasonable time as may be necessary to obtain a new contract or to complete work.

**3.4.11 Non-Appropriation of Funds:**

If the Agency is not allotted funds in any succeeding fiscal year for the continued use of the service covered by this contract by the West Virginia Legislature, the Agency may terminate the contract at the end of the affected current fiscal period without further charge or penalty. The Agency shall give the firm written notice of such non-allocation of funds as soon as possible after the Agency receives notice. No penalty shall accrue to the Agency in the event this provision is exercised.

**3.4.12 Contract Termination:**

The State may terminate any contract resulting from this EOI immediately at any time the firm fails to carry out its responsibilities or to make substantial progress under the terms of this EOI and resulting contract. The State shall provide the firm with advance notice of performance conditions, which are endangering the contract's continuation. If after such notice the firm fails to remedy the conditions contained in the notice, within the time contained in the notice, the State shall issue the firm an order to cease and desist all work immediately.

The State shall be obligated only for services rendered and accepted prior to the



date of the notice of termination. The contract may also be terminated upon mutual agreement of the parties with thirty (30) days prior notice.

**3.4.13 Changes:**

If changes to the original contract become necessary, a formal contract change order will be required. Prior to any work being performed, the change must be negotiated and approved by the State, the Agency and the firm. An approved contract change order is defined as one approved by the Purchasing Division and approved as to form by the West Virginia Attorney General's Office prior to the effective date of such amendment. **NO CHANGE SHALL BE IMPLEMENTED BY THE FIRM UNTIL THE FIRM RECEIVES AN APPROVED WRITTEN CHANGE ORDER.**

**3.4.14 Invoices, Progress Payments, & Retainage:**

The Firm shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract. Progress payments may be made at the option of the Agency based on percentage of work completed if so defined in the final contract. Any provision for progress payments must also include language for a minimum 10% retainage until the final deliverable is accepted.

If progress payments are permitted, firm is required to identify points in the work plan at which compensation would be appropriate. Progress reports must be submitted to Agency with the invoice detailing progress completed or any deliverables identified. Payment will be made only upon approval of acceptable progress or deliverables as documented in the firm's report. Invoices may not be submitted more than once monthly and State law forbids payment of invoices prior to receipt of services.

**3.4.15 Liquidated Damages:**

According to West Virginia State Code §5A-3-4(8), firm agrees that liquidated damages shall be imposed at the rate of \$100 per workday, for failure to provide deliverables at the agreed upon date identified in the final contract. This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue to any other additional remedy to which the State or Agency may have legal cause for action including further damages against the firm.

**3.4.16 Record Retention (Access & Confidentiality):**

Firm shall comply with all applicable Federal and State of West Virginia rules and regulations, and requirements governing the maintenance of documentation to verify any cost of services or commodities rendered under this contract by the firm. The firm shall maintain such records a minimum of five (5) years and make available all records to Agency personnel at firm's location during normal business hours upon written request by Agency within 10 days after receipt of the request.

Firm shall have access to private and confidential data maintained by Agency to the extent required for firm to carry out the duties and responsibilities defined in this contract. Firm agrees to maintain confidentiality and security of the data made available and shall indemnify and hold harmless the State and Agency against any and all claims brought by any party attributed to actions of breach of confidentiality by the firm, subcontractors, or individuals permitted access by the firm.

## **PART 4                      EVALUATION & AWARD**

### **4.1      Evaluation & Award Process:**

- a)      Expressions of Interest will be evaluated and awarded in accordance with **§5G-1-3 "Contracts for architectural and engineering services; selection process where total project costs are estimated to cost two hundred fifth thousand dollars or more."**

"In the procurement of architectural and engineering services for projects estimated to cost two hundred and fifty thousand dollars or more the director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project. All such jobs shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of article three [§59-3-1et seq.] A committee comprised of three to five representatives of the agency initiating the request shall evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service. Interviews with each firm selected shall be conducted and the committee shall conduct discussions regarding anticipated concepts and the proposed methods of approach to the assignment. The committee shall then rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm for architectural or engineering services or both. Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, price negotiations with the firm of second choice shall commence. Failing accord with the second most qualified professional firm, the committee shall undertake price negotiations with the third most qualified professional firm. Should the agency be unable to negotiate a satisfactory contract with any of the selected professional firms, it shall select additional professional firms in order of their competence and qualifications and it shall

continue negotiations in accordance with this section until an agreement is reached.”

b) The evaluation criteria and assigned point values are as follows:

**Scoring Criteria**

<b>Category</b>	<b>Points</b>
1. History and credentials of firm	40
2. History of completing similar projects	40
3. Oral Interview	20

STATE OF WEST VIRGINIA  
Purchasing Division

# PURCHASING AFFIDAVIT

**West Virginia Code §5A-3-10a states:** No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: EL Robinson Engineering Co.

Authorized Signature: [Signature] Date: 8-1-10

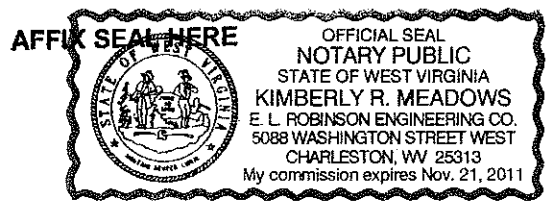
State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 1 day of September, 2010.

My Commission expires November 21, 2010.

NOTARY PUBLIC [Signature]





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## Firm Overview

E.L. Robinson is a multi-disciplined engineering /planning firm with a staff of over 100 full-time professionals and support personnel located in six offices throughout West Virginia (Charleston, Beckley and Chapmanville), Kentucky, and Ohio. Over the last 30 years, E.L. Robinson has grown to one of the largest firms in the region, offering a diverse scope of services. Since 1978, E.L. Robinson has provided a full range of quality engineering services, from planning and analysis to design and implementation

Named for its founder and president, Edward L. Robinson, P.E., P.S., the firm has based its success on a commitment to quality projects with superior client service. Finding new and creative ways to say yes to challenges has brought the firm's vision of excellence into reality. Along with this "yes, we can do it" attitude, the firm has grown to understand the ingredients of a professional service firm include not only brick and mortar, but also leading edge technology and a talented, motivated staff that is continually growing and advancing their skills.

The use of technology has allowed the firm to expand engineering capabilities and make use of new resources such as satellite imagery and digital mapping. In addition to the use of technology, E.L. Robinson also continues to strive to invent new and more effective ways to serve our clients. One of these ways is to provide a thorough pre-analysis of every project, saving the client time, money, and legal exposure. When the client is educated on every phase of the job and every challenge, the reputation of the firm grows stronger and attracts business from a larger marketplace.

E.L. Robinson has been providing its clients with quality products and superior service since 1978. Our staff combines state-of-the-art technology, experienced professionals, and innovative methods to help our clients meet their challenges.

- Transportation
- Infrastructure
- Bridge Design
- Structural Engineering
- Geotechnical Engineering
- Environmental Engineering
- Site Development
- Right-of-Way Services
- Construction Administration/Observation
- Surveying/Global Positioning
- Landscape Architecture



## Qualification Statement

E.L. Robinson has a strong background in planning and design of park spaces and infrastructure. Our team has over 30 years experience working with communities in developing parks, public spaces and new developments all across West Virginia, Ohio, and other states.

Additionally, E.L. Robinson has over 100 staff members including engineers, landscape architects, surveyors, and construction technicians. Our firm's office in Charleston, West Virginia will provide the identified scope of services.

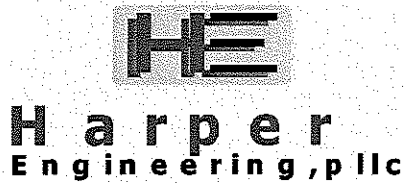
ELR's team has been fortunate to assist local, state and federal agencies with preservation, interpretation, and site planning of their capital improvements projects. The following is a partial listing of similar projects relevant to your project, the Blackwater Falls State Park Sled Run.

- Stonewall Jackson Resort State Park Development
- Blackwater Falls State Park Accessible Cabin
- Stonewall Jackson Resort Pedestrian Bridge
- Aspen Village Development
- Davis Riverfront
- Blackwater Falls Wastewater Treatment Plant.
- Coopers Rock Waterline
- Curry Ridge
- Jolo Phase I
- Route 52 Water Project

Profiles and descriptions of the most recent projects with the client references can be found toward the end of this statement of qualifications.

This team of engineers, landscape architects, surveyors, and construction inspectors and speciality consultants have been specifically assembled for this project because of their experience relating to your project and for preparing context sensitive solutions that are realistic. Resumes for each team member are included on pages 10-22 and page 25.

Our team includes Harper Engineering of St. Albans, WV for mechanical and electrical engineering. We will also review available manufacturers of lift, tow and snow making equipment such as Star Lifts and HKD Snowmakers.



## Qualification Statement

Harper Engineering, pllc was founded in 2008 to provide innovative engineering design services to architects, owners and contractors throughout the state. We are a unique combination of eager young talent and proven experience fused together to serve all of your building systems design needs including HVAC, plumbing, lighting, electrical, and fire alarm systems.

Our goal is to design optimized systems that meet all of our client's performance, energy use, and budgetary needs. The staff at Harper Engineering has a combined 85 years of experience working with clients in a variety of fields including but not limited to K-12 Schools, hospitals, offices, airports, manufacturing, and water treatment plants.

### Services:

#### HVAC Design

- Heating and Cooling load calculations
- Duct work sizing
- Hydronic pipe sizing
- Equipment selection

#### Electrical Design

- Electrical load calculations
- Panel and switch gear selection
- Lighting
- Fire alarm
- Site Utilities
- Emergency Generators
- Security and communications

#### Plumbing Design

- Pipe Sizing
- Fixture Selection
- Sprinkler design
- Site Utilities

#### Drafting

#### Specifications

#### Project Management

#### Construction Documents





**STAR LIFTS**

## Qualification Statement

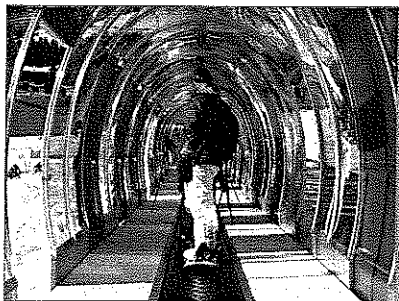
Owner Max Bruckschlogl has been designing and producing handle tows, fiber rope tows, and aerial ropeways for the ski industry since 1968 under the Bruckschlogl name.

In 1996 Bruckschlogl entered the American market and hired Peter Kavanagh to oversee importing, sales and service from their U.S. headquarters in Sunapee, New Hampshire.

In 1997 Bruckschlogl began producing Ski Conveyors under the name of SunKid Wonder Carpets. A relatively new product to the Ski Industry, Conveyors began to gain popularity in Ski Schools and later for use in Snow Tubing Centers.

In 2001 Star Lifts USA was formed as a U.S. company supplying Bruckschlogl handle and rope tows and SunKid Conveyors to the North American market. SunKid is recognized as the world leader in production of conveyors for the snow sports industry.

Star Lifts USA has just sold their 273rd SunKid Wonder Carpet in America and continues to be the leader in sales and service in the U.S. (complete reference list attached) Star Lifts USA also has a Western office in Camus, Washington overseen by Marc Wood P.E.

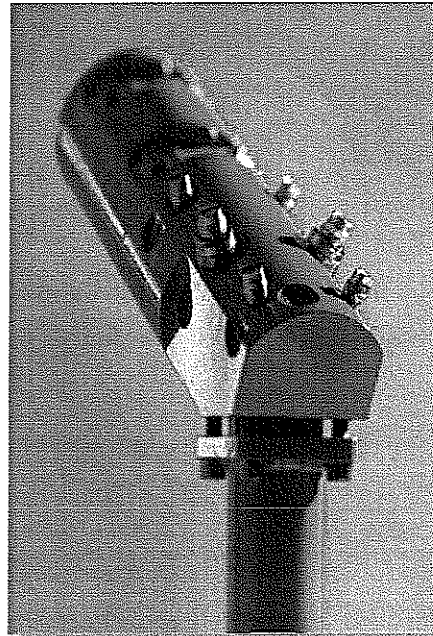




## Qualification Statement

HKD Snowmakers was founded 20 years ago and has provided snowmaking equipment and design services to over 450 ski resorts around the world. Our energy efficient snowmaking technology was initially developed at Seven Springs Mountain Resort in Champion, PA home of the world's largest snowmaking system - capable of over 25,000 Gallons per minute (gpm) of snowmaking capacity.

For the past twenty years, our goal at Snow Economics has been to deliver efficient snowmaking products, tailored to our North American customer. Our products are driven by the need for performance, operational ease, longevity, and the economics of snowmaking. As our product line has evolved with the market, we've stayed true to this founding principal. In fact, we're very excited to say; this season HKD will deliver gun number 20,000. What we are most proud of is that a majority of these 20,000 snowguns, sold over the years, are still in operation today.



We do have several customers in the Mid Atlantic market that are very satisfied with our technology and continue to invest with us as they expand their snowmaking systems. These include: Seven Springs Mountain Resort, Blue Nob, Snowshoe Mountain, Ober Gatlinburg, Massanutten, Mountain Creek, Ski Windham and Hunter Mountain.

We manufacture a diverse product line that includes snowguns designed for narrow and wide terrain. We have equipment that can operate on sleds or can be tower mounted at the side of the trail. Our technology can operate using a central compressed air plant, or we can provide on-hill compressors at each snowgun eliminating the expense of a central compressed air plant. All our products can be viewed on our web site at [www.hkdsnowmakers.com](http://www.hkdsnowmakers.com).

Our newest products - the SV10 Tower installed with a (10 HP compressor) is known as the SV10 Volt. The Volt is a very economical solution for a smaller system covering a tubing or sledding park. Once we have a chance to see the hill layout at Blackwater and gain an understanding of the available recourses including power and water, we can be more specific about snowmaking capacities and the appropriate snowguns needed to get the job done.



## Firm's Staffing/Capacity to Perform Project's Scope

Our team will be led by **Mr. Jeff Nelsen**, a landscape architect with an extensive background working with communities and other public and private clients throughout the state. He has developed master plans and construction documents focused on creation and preservation of public spaces and capitol improvements within state and local parks. Mr. Nelsen has managed numerous projects for West Virginia State Parks, including the site development of the Stonewall Resort. He has provided project management for design and construction of accessible cabins throughout the park system including Blackwater Falls. He has completed other projects in Tucker County for the communities of Davis, Parsons, Thomas as well as the Aspen Development near Timberline.

Mr. Nelsen will be providing the point of contact with you and coordination the planning and design efforts of the ELR Team.

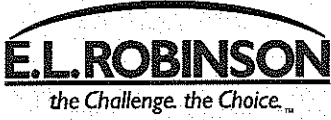
Other key E.L. Robinson staff members that will be assigned to this project are as follows:

**Mr. Brian Morton, P.E.** has over ten years of experience in many areas of civil engineering including roadway design projects, airport planning and design projects, water distribution systems, sanitary sewer collection systems, storm water collection systems, site development projects, and ADA accessible train and bus station improvements. His responsibilities include project management, construction management, contract administration, and project engineering and design.

**Mr. Joe Carney, P.E.** has over 35 years of experience as a utility infrastructure engineer. Mr. Carney has provided design and project management on several projects for WVDNR over his career, most recently the design and construction of a new waste water treatment plant for the lodge at Blackwater Falls. His other projects for WVDNR include infrastructure projects at Holly River and Tygart Lake State Parks.

**Mr. Ed Robinson, P.E., P.S.**, will serve as Quality Control and Quality Assurance representative for the project team. Mr. Robinson has over 30 years experience in the engineering and construction field, where he has been a member of many associations and boards within the design field.

**Mr. Tom Rayburn, P.S.**, will be assigned to oversee all Surveying activities. Our team of surveyors, managed by Mr. Rayburn, P.L.S., provided the Cities of Williamson and Mt. Hope with the latest in technology and experience in surveying and mapping. By using GIS based mapping and high-tech instrumentation, E.L. Robinson's survey team can evaluate any type of surface including lakes and river bottoms. Other services pertaining to surveying that our company specializes in are aerial photogrammetry consulting, hydrographic surveying, land surveying and GPS surveying.



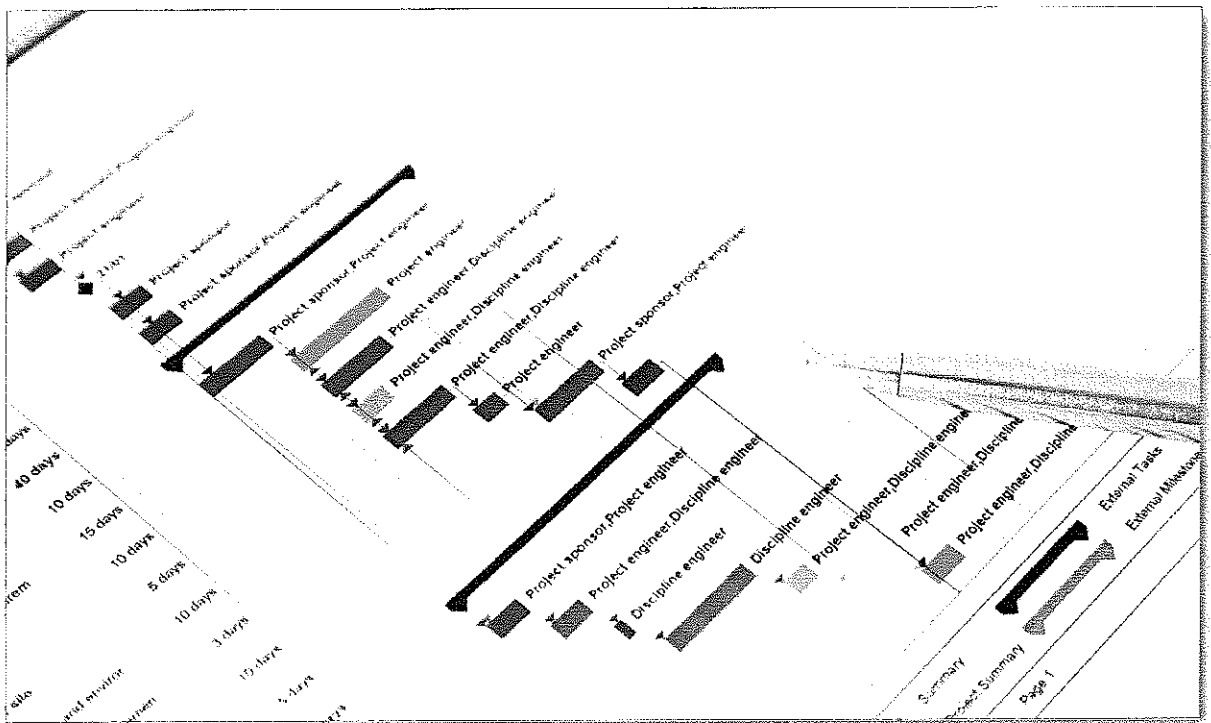
# Firm's Staffing/Capacity to Perform Project's Scope

**Mr. Daniel Akers**, Land Planner has a wide variety of experience in community design, amenity center, sports and recreation complexes, commercial and retail centers. He has managed projects through the approval process as well as administered construction observation. Mr. Akers was part of the planning team preparing the Wayne County Bike Path and the MacCorkle Avenue Trail Analysis. He provided a majority of the plan and graphics required in the project documents.

**Mr. Jeff Casto**, Construction Inspector has provided construction observation for the near by development, Charles Pointe in Bridgeport and will provide that same service for Blackwater Falls Sled Run project if required.

**Schedules and Deadlines** – are established with the client at the start of the project. These deadlines are set up in a software package to assist project managers in tracking actual tasks and completion. All project managers are familiar with this scheduling procedure and required to use it. Internal weekly resource meetings are held to check progress and reallocate staff resources if necessary.

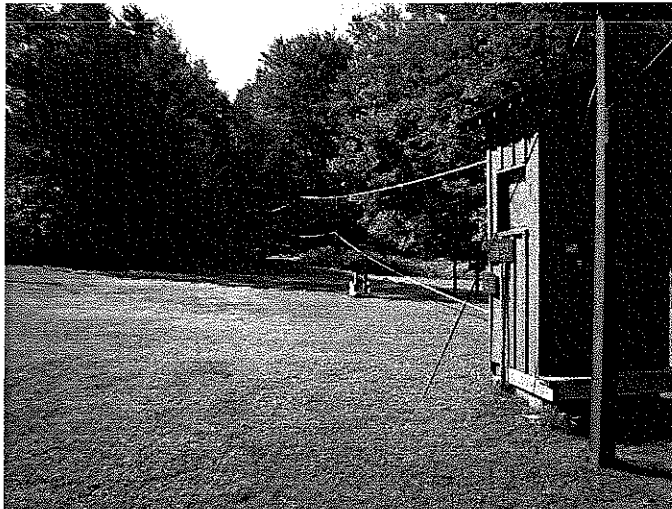
**Budget Management & Cost Estimating** – Keeping a project in budget requires having the right information and current information. ELR uses a daily web-based time sheet program. Project managers know where projects are relative to budget on a daily basis. At no time is the project manager unaware of what has been charged to the project.



The scope of services are well defined yet there are options to explore regarding appropriate location of wells, lighting, snow making and lift equipment. Improving the visitor's experience is the ultimate goal for the upgrade of this unique feature at the park for over 50 years.

Professional services will include the following:

- Schematic design of the sled run upgrade
- Cost estimate
- Final design
- Bidding and construction administration
- Permitting documents for the referenced agencies



# Our Project Team

**West Virginia  
Department of Natural  
Resources**

**QA/QC**  
Ed Robinson, P.E., P.S.

**Project Manager**  
Jeff Nelsen, RLA

**Harper Engineering**

**Star Lifts**

**HKD Snowmakers**

**Engineering and Design**  
Brian Morton, P.E.  
Joe Carney, P.E.  
Dan Akers, ASLA

**Construction Inspection**  
Jeff Casto

**Surveying/Mapping**  
Tom Rayburn, P.S.



# Edward L. Robinson, P.E., P.S.

## President

### **Education**

M.S. Civil Engineering, University of West Virginia (COGS), 1981  
B.S. Civil Engineering, West Virginia Institute of Technology, 1969

### **Registrations**

Registered Professional Engineer in West Virginia, Kentucky, Ohio, Pennsylvania, North Carolina, South Carolina, Virginia, Georgia, Maryland and Colorado  
Registered Professional Surveyor in West Virginia

### **Professional Experience**

Mr. Robinson founded E. L. Robinson Engineering Co. in 1978 with four employees. Initially the firm provided land surveying and land development services. Over the course of the next 20 years, the firm added water and wastewater engineering as well as structural inspection services simultaneously growing to 14 employees.

Under his leadership, E. L. Robinson enters the new millennium as a multi-disciplined professional services firm that utilizes the latest technology in the design of highways, bridges, structures, environmental, civil, and geotechnical projects as well as global position satellite surveying, right-of-way, construction inspection and architectural services.

The firm now employs more than 85 engineers, landscape architects, surveyors and support personnel and has been converted to an employee owned company through an Employee Stock Ownership Plan (ESOP).

### **Professional Memberships**

National Society of Professional Engineers  
American Society of Civil Engineers  
Water Environmental Federation

### **Offices Held**

Chairman of WVUIT Advisory Board  
President of West Virginia Council of Engineering Companies  
Chairman Transportation Committee – WV Association of Consulting Engineers  
State Director of West Virginia Society of Professional Engineers  
President of West Virginia Society of Professional Engineers  
Assistant Treasurer of the American Society of Civil Engineers  
National Director of the ASCE representing WV, NC, SC and VA  
President of West Virginia Section of ASCE

### **Honors Awarded**

Alumnus of the Year – West Virginia University Institute of Technology, 1992  
Engineer of the Year – West Virginia Society of Professional Engineers, 1997  
Engineer of the Year – American Society of Civil Engineers, 1998  
National Entrepreneur of the Year Finalist – Ernst & Young, 2001  
Engineering Entrepreneur of the Year – Ernst & Young, 2001  
Honorary PhD, *Doctor of Science* – West Virginia Institute of Technology 2002



## Jeff Nelsen, RLA *Project Manager*

### Education

Bachelor of Science in Landscape Architecture  
West Virginia University, 1976

### Registrations

Registered Landscape Architect in West Virginia, Indiana, Ohio, Maryland, Virginia

### Professional Experience

Mr. Nelsen has practiced landscape architecture for over 30 years principally in West Virginia but also has completed projects in Ohio, Indiana and Pennsylvania. His professional experience has afforded him opportunities to assist clients with park and recreation planning and design, community and urban planning, streetscape design, campus planning for elementary, secondary and higher education facilities and site planning and design for residential, commercial and public places. He has been involved in environmental planning and restoration especially lands degraded from past mining practices. He has managed site development on significant projects such as the Stonewall Jackson Resort and the Tamarack Art Center yet enjoys working with clients and communities assisting them visualize the improvements for their parcels and neighborhoods.

### Representative Projects

**Clay Center for the Arts and Sciences, Charleston, WV:** Prepared construction and bidding documents and provided construction administration for a new public plaza space at the corner of Leon Sullivan Way and Washington Street for Charleston's premier performing arts and science center. The site's design called creating a cool green zone for people to gather informally and as an entertainment venue for special events. The relative flat site consisted of a circular plaza and fountain surrounded by a concentric ring of granite seat walls at the edge of the pavement radiating outward into the lawn area. Large 4" and 6" caliper Linden and Honeylocust trees were planted to create a shaded canopy for the space in front of the center.

**Washington Street Streetscape, Charleston's East End, WV:** Prepared master plan, construction and bidding documents and provided construction administration services for the remaining segment of the Washington Street streetscape from the state Capitol grounds to Charleston Area Medical Center which entailed a ½ mile of sidewalk replacement, new street lighting, brick accent pavements, street trees, landscaping, utility line relocation and burial and new underground electrical service for 30 structures. Total budget for the project was approximately two million dollars.

**Rich Mountain, Laurel Hill and Corrick's Ford Civil War Battlefields, Randolph, Barbour and Tucker Counties, WV:** These are three distinct battlefields but are all related to each other because they are a progression of the first major conflict in northwestern Virginia in July, 1861 between approximately 9000 Union soldiers led by General George McClellan and 5000 Confederate troops led by General Robert Garnett. The armies engaged each other at these three locations over a week's time resulting in the defeat of the Confederate forces. This early Union victory allowed Union sympathizers in the western counties of Virginia to organize a secessionist movement to form the new state of West Virginia. Services included providing master planning, interpretation recommendations, signage and trail development for each of



## Nelsen Continued

these sites with archeological and historical consultants on the team. The planning and design efforts of these new public lands were focused on preservation and interpretation of each site's story about West Virginia's role in the Civil War.

**Tamarack Art Center, Beckley, WV:** Working with the architect for the project prepared the site master plan and managed design for all exterior improvements including access road, bus and car parking, earthwork, stormwater management, utility design, pedestrian walkways and plaza spaces, fountain design, landscaping, and irrigation design. This \$20 million facility is widely recognized in West Virginia and surrounding states as one of the finest venues for West Virginia artisans.

**Stonewall Jackson Resort, Roanoke, WV:** In the most recent major expansion of a West Virginia State Park, assisted the developer in an unique public private partnership to build new facilities at the park which included master planning for a lodge, golf course, expanded campgrounds, cabins, expanded day use facilities, trails and other site features. Prepared documents for regulatory review by the USACOE, WVDEP, and WVDNR. Managed the development of site preparation construction documents for the lodge, golf clubhouse, cabin area, and future campground areas. Assisted the golf course design team with storm water management and permitting issues. After the completion of new facilities have continued to assist the developer on future proposed amenities for the resort.

**BOPARC Master Plan Update, Morgantown, WV:** Due to the significant growth in Morgantown, assisted the Morgantown Board of Park and Recreation Commission with an update of the existing and proposed park facilities maintained by the City of Morgantown. This involved site review of approximately 20 facilities, development of a needs analysis survey and interpretation of its findings, preparation of new master plans for each park, preparation of cost opinions and phased recommendations for the planned \$12 million of improvements.

**Aspen Village, Timberline Resort, Canaan Valley, WV:** Provided master planning and managed site design, permitting and engineering for a new 50 lot subdivision near Timberline. The development involved grading layout for lots, roads, drives, utilities, pond enlargement, and site amenities. Project entailed 30 duplex and triples units and 20 single family lots. Coordinated utility extensions with each respective company and assisted several of the property owners with site planning of their home sites.

**West Side Community Renewal Plan, Charleston, WV:** Working with the Charleston Urban Renewal Authority, Charleston Planning Department and community leaders on the West Side developed the largest urban renewal plan within the city encompassing 228 acres and almost 900 buildings. With assistance of a public facilitation consultant held a series of meetings with residents and business owners to gain input into their vision for the plan. The adopted recommendations identified significant public and private recommendations with the strongest focus on a new home ownership zone around the new elementary school planned on Florida Street.



## Brian Morton, P.E. *Project Engineer*

### Education

B.S. Civil Engineering, West Virginia University Institute of Technology, 1998

### Registrations

Registered Professional Engineer in West Virginia, Ohio and Florida

WVDOH Certified Aggregate Sampling Inspector WVDOT Certified Portland Cement Concrete Inspector

Certified Student Pilot, FAA

### Professional Memberships

American Society of Civil Engineers (ASCE)

American Water Works Association (AWWA)

### Professional Experience

Mr. Morton has over seven years of experience in many areas of civil engineering including roadway design projects, airport design projects, water distribution systems, sanitary sewer collection systems, storm water collection systems, site development projects and ADA accessible train and bus station improvements. Prior to joining E.L. Robinson Engineering Co., Mr. Morton worked with the WV Division of Highways as an Engineering Co-op Technician. His responsibilities at E.L. Robinson Engineering Co. include project management, construction management, contract administration, and project engineering.

### Representative Projects

Highway Design:

**US Route 52 - Kermit Bypass:** This project consisted of 2.5 miles of four-lane divided highway, 3,000 LF of four-lane access road design, two 4-ramp intersections, one set of twin structures, one single bridge, and 2,900 LF of stream relocation, all of which resulted in 10 million cubic yards of excavation and an estimated total construction cost of \$88 million.

**Corridor H - Davis to Bismarck:** This project consisted of 1.75 miles of four-lane divided highway, one bridge, two at-grade intersections, and a 6' X 6' concrete box culvert. This project has an estimated total construction cost of \$9 million.

**Corridor H – Foreman to Moorefield:** This project consisted of 5 miles of four-lane divided highway, almost 3 miles of access road design, a truck escape ramp, one set of twin structures, one single bridge, a box culvert, and naturalized stream design. This project resulted in 10 million cubic yards of excavation and an estimated construction cost of \$75 million.

**Meadowbrook Road:** This project consisted of 1.4 miles of four-lane divided highway, one set of twin structures, two at-grade intersections, and a tie-in to existing US Route 19. The project had an estimated total construction cost of \$19 million.

**I-79 Bridgeport to Meadowbrook:** This project consisted of widening 2.1 miles of Interstate 79 to

# Morton Continued

**I-79 Bridgeport to Meadowbrook:** This project consisted of widening 2.1 miles of Interstate 79 to 8-lanes, including three bridges, tie-ins to two intersections, and water and sewer line relocation. The total construction cost for this project was near \$30 Million.

**Lower Gassaway Bridge Replacement:** This project consisted of 0.3 miles of roadway relocation, a 453' long bridge, three at-grade intersections, an at-grade railroad crossing, and a boat-loading ramp. The total construction cost for this project was \$3.5 Million.

## Airport Design:

**Implementation of the 2003 and 2004 AIP projects at the Lawrence County (Ohio) Airpark:** This included Runway Safety Area Study Report; Airport Layout Plan update including Aviation Forecasting, wind coverage analysis using FAA software "Airport Design 4.2D," non precision GPS instrument approach analysis, Part 77 Imaginary Surface analysis, Appendix II threshold siting criteria analysis, displaced threshold and declared distance calculations and property acquisition analysis.

The implementation consisted of the preparation of detailed plans and specifications conforming to FAA advisory circulars and cost estimations for the construction of a runway and taxiway rehabilitation, runway and taxiway pavement markings, apron and tie-down area expansion which included pavement design, major and minor drainage improvements around the airport and site grading and reclamation around apron and taxiways; assisted in the bidding phase and the preconstruction issues as well as construction management including airport safety briefings and NOTAMs for these projects.

## Utility Relocation:

Water and Sewer Relocation for the Route 35 / I-64 interchange; Waterline Relocation for the Big Tyler Center Turn Lane Project; Water and Sewer Relocation for Route 34 Roadway Widening Project; Sanitary Sewer Relocation for the I-79 Meadowbrook Bridge; Various Gas Line Relocations for Consumers Gas Company.

## Waterline Distribution:

Waterline Extension Projects in Cabell, Wayne, Kanawha and Putnam Counties included the design and construction management of miles of waterline and several water storage tanks and booster pump stations.

## Site Development:

**CAMC 33rd Street Relocation:** engineering design and construction management for the relocation of 33rd street and site development for a five story clinical teaching facility in Charleston, WV. Other site design projects include Uno's Pizzeria in Teays Valley, WV; Go Mart in Gallipolis, Ohio; Montgomery Amtrak Bus and Train Station Improvements Project in Montgomery WV.



## **Joe Carney, P.E.** *Project Engineer*

### **Education**

M.S. Civil Engineering, University of Missouri at Rolla, 1974  
B.S. Aerospace Engineering, West Virginia University, 1969

### **Registrations**

Registered Professional Engineer in West Virginia, Kentucky and Missouri  
Registered Professional Surveyor in West Virginia

### **Professional Experience**

Mr. Carney has extensive experience in design engineering, preparation of contract documents, construction supervision and contract administration.

His wide experience in civil engineering projects includes water, wastewater, storm sewers, roads, earthwork, utility relocation and site development.

He has worked in private industry and for several Consulting Engineering firms prior to joining ELR in 1982.

Mr. Carney has designed and supervised the construction of numerous projects, including a \$4 million sanitary sewer system, 5 bridges, over \$5 million of utility relocations for highway projects, and many \$1 million waterline and sewer projects.

### **Professional Memberships**

American Society of Civil Engineers  
National Society of Professional Engineers  
American Water Works Association  
Water Environment Federation

### **Offices Held**

State Director of West Virginia Society of Professional Engineers  
Past President of Charleston Chapter of WV Society of Professional Engineers

### **Honors Awarded**

1998 Engineer of the Year, West Virginia Society of Professional Engineers



## Dan Akers, ASLA *Land Planner*

### **Education**

Bachelor of Science in Landscape Architecture, West Virginia University, 2005

### **Registrations**

Currently pursuing Landscape Architect registration in the state of West Virginia

### **Professional Memberships**

American Society of Landscape Architects

West Virginia Chapter of the American Society of Landscape Architects

### **Professional Experience**

Mr. Akers has a wide variety of experience in community design, amenity centers, sports and recreation complexes, commercial and retail centers, parks, and streetscape enhancement projects throughout the Appalachian region and the south east. He has served vital roles in numerous projects from inception to construction observation. Mr. Akers provides each project with expertise in various computer programs that aid in conveying conceptual ideas, cost estimating, renderings, 3D models, animations and constructions documents.

### **Representative Projects**

#### **Man and Follansbee Streetscape Enhancements**

Complied illustrative documents to aid demolition and construction of new sidewalks, ADA ramps, new curbs and drive aprons.

#### **Williamson Streetscape Enhancements - Mingo County, WV**

Completed on site inventory and analysis and assessed the condition and ADA accessibility of the cities current sidewalks on Harvey Street which is the main gateway into downtown Williamson from WV Route 119. Conceptual master plans were generated and presented for approval. Once approved construction documents were created which had improvements in sidewalk widths, crosswalk locations, lighting, vegetation and a small park on the east end of Harvey Street.

#### **Corrick's Ford Battlefield - Parsons, WV**

Completed on site inventory and analysis of this historic Civil War battlefield dating back to the mid 1800's and graphically repented all on and off site attributes. Site use analysis maps were created using ACAD and Photoshop to suggest the best uses and locations for each program element. Conceptual site amenities were designed and graphically illustrated using 3D modeling and rendering software.

#### **Shamrock Condominiums - Snowshoe, WV**

On site inventory and analysis were taken and evaluated to develop a program for possible additions and or improvements to on site amenities, traffic circulation, storm water management, and landscaping. Each of more than 70 condominiums were reviewed to establish positive drainage away from the buildings. Conceptual 3D graphics were created to depict possible additions which included picnic areas, fire rings, shelters, and pedestrian circulation improvements through the site. A conceptual master plan was also generated and rendered.

# Akers Continued

## **Beech Fork State Park - Lavalette, WV**

On site inventory and analysis was taken to review the feasibility of 35, 50, and 75 room lodge. Multiple conceptual master plans, cost estimates, earth work calculations, and slope analysis maps were completed to rank each location for the most desirable location based on cost, proximity to the lake and visual impact to the state park.

## **Wayne County Bike Path - Ceredo & Kenova, WV**

Site exploration was conducted to route possible share the road bike paths throughout Ceredo and Kenova. Maps were created using aerial photography and mapped possible route. Working with the city municipalities, a route was chosen and approximately twelve miles of share the road bike paths were created. Construction documents were made for tail head maps, street signs, and information stations. Construction on this project is to begin in the near future.

## **Washington Street West Streetscape - Charleston, WV**

Working with the West Virginia Main Street office located on Charleston's west side, a plan was created evaluating Washington Street's current condition and pedestrian circulation. A conceptual master plan was created showing areas for improvement not only for aesthetic proposes but for pedestrian safety as well. Cost estimates and renderings accompanied this plan to convey the improvements needed.

## **Crossroads Retail Center - Bluffton, SC**

Multiple illustrative master plans were created and evaluated to find the most valuable solution to this 100 acre commercially zoned property. Plans were submitted and presented to the town council for review and recommended for approval and advancement into the initial master plan development.

## **Hampton Lake, Private Community & Amenities - Bluffton, SC**

Produced multiple construction documents for individual projects within the community which included entry sequence, gate house, amenity center, dog park, camp grounds, nature trails, playground, and streetscapes. Construction of this 900 acre community and amenity center was completed on the spring of 2008. The Hampton Lake Amenity center received the prestigious national award for "Best in American Living Award" for best community facility.

## **Holiday Inn, Redevelopment - Hilton Head Island, SC**

Schematic plans were created for the remodeling of an older hotel into high end beach front condominium units. Presentation graphics were made by means of digital modeling and rendering software.

## **Reynolds Plantation, Amenity Center - Greensboro, GA**

Conceptual plans were generated for the addition of a large outdoor pool, restaurant, spa, and event lawn. Presentation graphics were made utilizing digital rendering techniques and 3 dimensional modeling software. Conceptual plans were approved and full construction documents were created. This high end resort addition was completed in the spring of 2008.



# James T. Rayburn, P.S.

## Chief Surveyor

### Education

A.S. Mechanical Engineering, West Virginia Institute of Technology, 1970

### Registrations

Registered Professional Surveyor in West Virginia

### Professional Memberships

American Congress on Surveying and Mapping  
The American Association for Geodetic Surveying (AAGS)  
Member Organization of ACSM.  
Cartography and Geographic Information Society (CaGIS)  
Geographic and Land Information Society (GLIS)  
National Society of Professional Surveyors (NSPS)  
West Virginia Association of Land Surveyors, Inc.

### Professional Experience

Mr. Rayburn currently serves as Manager of Surveying for E.L. Robinson Engineering (ELR) and has more than 30 years of Design Surveying and Construction Surveying experience. The responsibilities include management of surveying and control for various design projects, including highways, buildings, and bridges. In addition, Mr. Rayburn manages and performs work consisting of courthouse research for property ownership resolution for the above mentioned project types. This includes preparation of property resolution maps, deed descriptions for property acquisitions required for project plan preparation. Mr. Rayburn has experience in Geodetic Control Surveys, 3D Laser Scanning, Photogrammetric Control, Topographic Surveys, Cemetery Surveys, Boundary Surveys, Construction Stakeout, Subdivision Surveys, along with Hydrographic surveys of river and lake bottoms. A few of the more notable surveying projects performed by ELR under the supervision of Mr. Rayburn, has been the Blennerhassett Bridge Project, 11 continuous miles of Corridor H design surveys, GPS Control for the West Virginia Statewide Mapping and Addressing Board Project, 3D Laser Scan and mapping of the CAMC Parking Garage partial collapse, and 3D Laser Scanning of I64/I77 Retaining Wall for Monitoring.

### Representative Projects

#### Design Surveys

- **Corridor H (WVDOT) Hardy County, WV:** Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately 11 miles of Corridor H in Hardy County, WV. This was for Sections 6 & 7 of Corridor H, both Sections of which are now under construction. Estimated construction cost of \$150 million dollars.
- **WV Route 10 (WVDOT) Logan to Man WV, Logan County, WV:** Lead Surveyor for Design Surveys for a section approximately five miles in length from Man, WV, to Rita, WV, including the Man Bridge. Also provided control surveying for the entire project length of approximately 12 miles. The approximate five miles section of roadway is now under construction at an estimated cost of \$51 million dollars.
- **Blennerhassett Bridge, Corridor D (WVDOT), Wood County, WV:** Lead Surveyor for Design Surveys

# Rayburn Continued

for this landmark Bridge Project which is now under construction at an estimated cost of \$120 million dollars.

- **James Ramsey Bridge (WVDOT) Potomac River, Shepardstown, WV:** Lead Surveyor for Design Surveys for this Bridge Project which is now completed at an estimated cost \$15.5 million dollars. This project involved working in an environmentally historic area, which adjoined a National Park.
- **US Route 35 (WVDOT) Mason County, WV:** Lead Surveyor for Design Surveys for two Design Sections each approximately 2.5 miles in length from Lower Five Mile Road to Upper Nine Mile Road. Also provided control surveying for the entire US 35 design project length of approximately 22 miles.
- **I64/US 35 (WVDOT) I64 to US 34 Crooked Creek, Putnam County, WV:** Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately four miles of US 35 including Interstate 64 Ramps and Flyovers in Putnam County, WV. This included the I64 Bridges and Flyovers, which is now under construction.
- **ATB-Parrish Road (ODOT) Ashtabula County, Ohio:** Project Design Surveyor for rail grade separation project. Project involved roadway realignment, 900' new bridge, new waterline, storm and sanitary sewers. Project is currently under construction. Estimated construction cost: \$8.6 million.
- **PIC-23-3.21 and Various (ODOT) Pickaway County, Ohio:** Project Design Surveyor for ODOT Project PIC-23-3.21 and Various. Project involves deck replacements along 11 miles of US 23 in Pickaway County. Project includes large diameter culvert liner, interchange upgrade that includes mainline profile correction, ramp reconstruction, and addition of barrier wall and storm drainage. Project is currently under design (90%). Project scheduled for construction in 2007. Estimated construction cost: \$12 million.
- **ATB-90-22.06 (ODOT) Ashtabula County, Ohio:** Project Design Surveyor for Interstate Reconstruction Project. Project includes total pavement replacement, bridge widening, and contra – crossover maintenance of traffic, culvert replacements and storm sewer rehabilitation and sign replacements. Project is currently under design (50%) and scheduled for construction in 2011. Estimated construction cost: \$36 million.

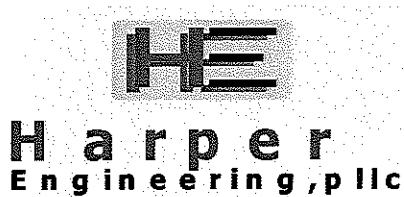
## Construction Surveys

- **Corridor D (WVDOT) Wood County, WV:** Lead Surveyor for Highway/Bridge Construction Monitoring surveys for the following segments of Corridor D and related relocation projects:
  - Godbey Athletic Field Relocation Construction
  - Godbey Colt Field and Soccer Field Construction
  - West WV 47-East WV 47 Highway/Bridge Construction
  - East Buckeye-West Little Kanawha River Highway/Bridge Construction
- **Interstate I-79 Widening and Median Barrier (WVDOT) Harrison County, WV:** Lead Surveyor for construction layout surveys for the widening of I-79 from the Meadowbrook Exit, north to the Jerry Dove Exit approximately three miles in length, as a subcontractor to the prime contractor.



## Rayburn Continued

- **CAMC 33rd Street Relocation and Building Expansion, Charleston, WV:** Lead Surveyor for construction layout surveys for 33rd Street relocation along with ancillary items including sidewalks, drainage and utilities. Also layout surveys for building expansion project.
- **Saturn Dealership, Hurricane, WV:** Lead Surveyor for Saturn Dealership site development and access roads at Hurricane Interchange of Interstate 64.
- **Arch Coal WV Mining Operations:** Lead Surveyor as a subcontractor to Arch Coal operations for Valley Fill Construction (Up to 27 million cubic yard fills), mine haul road layout, drill line staking, and dragline pit layout.



## Jason Harper, P.E. *Professional Engineer*

### **Education**

West Virginia University Institute of Technology  
Montgomery, WV  
Bachelor of Science-Mechanical Engineering

### **Registrations**

Licensed Professional Engineer—WV, KY, MD  
ASHRAE  
NFPA

### **Professional Experience**

Jason E. Harper, P.E. brings 9 years design experience to our firm. He has experience with HVAC, electrical, plumbing, and fire alarm system design. His projects include educational facilities (including colleges and universities), health care facilities, office buildings, banks, emergency services facilities, postal facilities, and government buildings.

### **Projects**

- Addition and Renovation to Geary School
- Baileysville Elementary HVAC Renovations
- W. Kent Carper Justice and Public Safety Complex
- Dominion Gas Office Building
- Renovations to Glenville Elementary
- Addition to Shady Spring Middle School
- Addition and Renovations to Flinn Elementary
- Renovations to Park Middle School



**STAR LIFTS**

## **Peter Kavanagh**

**1980-1983 Whaleback MT NH**

Mountain Operations Manager responsible for all aspects of outside ski area operations including but not limited to Snowmaking, lifts, grooming, and construction

**1989-1991 Mount Sunapee Resort NH**

Lift mechanic responsible for maintenance, repair, and troubleshooting of 7 aerial ski lifts.

**1991-1996 Mount Sunapee Resort NH**

Lift Maintenance Director responsible for maintenance, repair, and troubleshooting of 7 aerial ski lifts and a lift maintenance department with 4 full time personnel.

**1996-Present Bruckschlogl/ Star Lifts NH**

Oversee all aspects of importing, shipping, sales, service and installation of surface ski lifts.



## Experience/Capabilities of the Construction Inspectors

E. L. Robinson Engineering Company's Construction Inspection (CI) Staff consists of 15 individuals, each having outstanding experience and knowledge of construction. We maintain our CI Staff as permanent employees allowing our clients to benefit from the accumulation of years of experience both in observing construction and also in working with our Project Managers. To function as a team, the team members must be familiar with one another. By keeping a successful team together, our clients benefit from that continued experience.

When not providing CI services, our Staff serves as field designers where knowledge and experience gained from inspection work is then put to use in the design effort. The knowledge and experience gained from the design effort is in turn put to good use in the inspection work. This shifting of responsibilities and viewpoints makes for a better design and also improved inspection.

The CI Staff of E. L. Robinson Engineering Company has years of experience in providing quality construction inspection services for projects throughout West Virginia. The construction inspectors have completed many projects utilizing various funding scenarios that require significant oversight and varied record keeping.

Our CI Staff provides full time representation under the direction of the Project Manager. The Staff has experience in reviewing the progress schedule, schedule of Shop Drawing and Sample submittals, and schedule of values prepared by Contractor.

The CI Staff of our company has years of experience in the preparation of daily reports which include recording Contractor's hours on the Site, weather conditions, data relative to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions, site visitors, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures.

Additionally, our CI Staff provides maintenance of records and orderly files for correspondence, reports of job conferences, reproductions of original Contract Documents including all Change Orders, Field Orders, Work Change Directives, Addenda, additional Drawings issued subsequent to the execution of the Contract, Engineer's clarifications and interpretations of the Contract Documents, progress reports, Shop Drawing and Sample submittals received from and delivered to Contractor, and other Project-related documents. Our CI Staff also keeps a separate set of drawing mark-ups to supplement the Contractor's Record Drawings.

## Experience/Capabilities of the Construction Inspectors

Our CI Staff has experience and is completely familiar with the process of reviewing applications for Payment with Contractors for compliance with the established procedure for their submission and forwarding with recommendations to Project Manager, noting particularly the relationship of the payment requested to the schedule of values, work completed, and materials and equipment delivered at the Site but not incorporated in the Work.

The CI Staff is familiar with the preparation of punch lists and has attended numerous substantial and final inspections. We are familiar with all aspects of construction administration/inspection from the start of construction through final inspection.

E.L. Robinson Engineering Company maintains a permanent and highly qualified construction inspection staff with the necessary experience to very capably oversee the construction of your project.





## Jeff Casto *Construction Inspector*

### Education

- Herbert Hoover High School, 1975
- Carver Career Center, 1975

### Certifications

- Fairmont State University Level IV (TET-SC)
- Class A CDL License
- WVDOH Aggregate Sampler
- Lead Worker in Safety Course
- NICET Level IV Construction Certification
- WVDOH PCC Inspector
- OSHA 40 Hour Training Class
- Turn of the Nut & Rotational Capacity

### Professional Experience

Mr. Casto has 13.5 years experience with WVDOH District I. He has experience in all phases of construction projects. He has worked as an inspector on WV Highways and Bridge Projects throughout the state. Some of the projects Mr. Casto has been involved with include: lead removal, pipe replacements, slip repair, bridge replacement, and ramp and road widening.

### Representative Projects

- Corridor D, Route 50, Parkersburg, WV – Supervisor – 5 separate projects which included 9 bridges with construction of all phases.
- Ohio DNR, Pomeroy, Ohio – Lead Inspector – Remove and repair slip.
- Earl Ray Tomblin Industrial Park, Logan County, WV – Installation of storm and sanitary sewer, water line and construction of roadway, curbs, gutters and lighting.
- Charleston Area Medical Center General Division, Charleston, WV – Lead Inspector Repairment of collapsed parking building.
- Charleston Area Medical Center Memorial Division, Charleston, WV – Lead Inspector – Two construction projects that required roadway construction, storm sewer, sanitary sewer and water line relocation work of 33rd Street replacement.
- Chief Logan State Park, Logan, WV – Lead Inspector – Inspected excavation and compaction of materials in preparation of building pad for recreational center.
- Charles Pointe – North Land Bay, Bridgeport, WV – Lead Inspector - Inspected construction work on Charles Pointe Development. The work consisted of installation of storm and sanitary sewer, water line construction, curbs, lighting and roadway construction.
- West Hamlin Sewer line Replacement & Sludge Removal Project, West Hamlin, WV – Lead Inspector Cleaning and removal at waste pond. Replacement of sewer lines and manholes.
- Route 35 Design Build Project, Putnam County, WV - Inspection of work performed by contractor with emphasis on fills and culvert backfilling operations. Quality Control Testing on fills and culvert backfilling. Documentation of work performed through daily reports and the necessary WVDOH forms as needed.



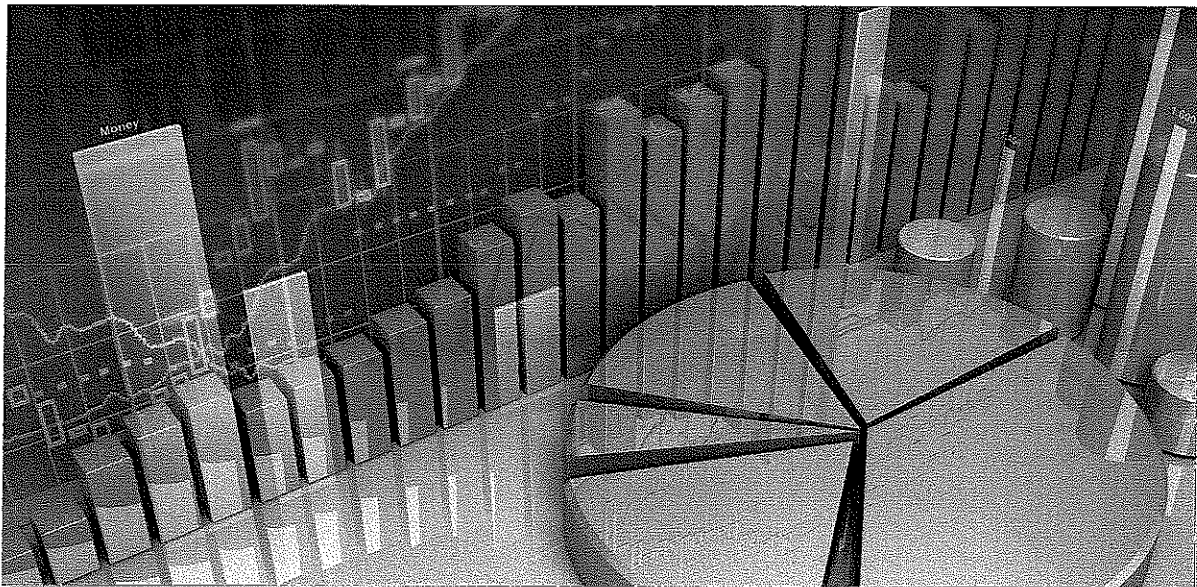
## Experience/Capabilities with Funding/Funding Agencies

E. L. Robinson Engineering Company acknowledges that the funding of projects is equally important to the design. ELR staff realizes that no matter how well a project is designed, without funding to allow the project to go to construction, the design remains on a shelf and collects dust. Design alone does nothing to improve the quality of life for the citizens who expect and demand service from our clients. Our track record of moving projects to completion is well known throughout the State as evidenced by obtaining repeat business from our clients.

E. L. Robinson has a close working relationship with both state and federal agencies that provide funds for various projects. These long-term relationships are based upon several factors, but probably the most important is trust and confidence in ELR's commitment to the completion of the projects. Another way this has been accomplished is by knowing program rules and regulations of various funding agencies. We have the ability to intermingle funds from various agencies, while maintaining each program's integrity. This allows maximum utilization of both grant and loan funds from all sources. Ultimately, the customer benefits from this ability to leverage among the programs.

"Ready to proceed" is of particular importance to secure an award of funds. ELR takes great pride in working with clients to accomplish this goal. Achieving a "ready to proceed" status improves the client's ability to attain a complete funding package. This allows the project to be constructed quickly and reduces the cost of inflation, which so often impacts funding of other projects throughout the State. When unnecessary delays occur, costs go up along with construction delays. The ELR project management team recognizes the cost of delays and prides itself on creating a timely "Ready to Proceed Project".

Within the last thirty-six months E. L. Robinson has worked with clients to obtain over \$61 million dollars in project funds. Throughout the last ten years, we estimate over \$150 million dollars of state and federal dollars have been used on our projects.



# Stonewall Jackson Lake Resort

Stonewall Jackson Lake State Park represents a new beginning for state supported recreation development in West Virginia. The 35 million dollar Resort planned by E.L. Robinson's landscape architects as part of the developer's team, was the first public/private partnership formed in the state for the development of facilities at a state park. The developer was responsible for coordinating all design and construction activity, while the state assisted in the financing package.

ELR landscape architects were responsible for master planning and site construction design for the 2,000 acre resort, including a 180-room lodge, an 18-hole signature golf course by Palmer Course Design Co., a 100-unit campground, cabins, day use improvements, a swimming pool, trails, access and parking. The firm was also responsible for permit coordination with the various state and federal agencies for wetlands, riparian corridors, utilities, stormwater and erosion controls. An extensive tree preservation and relocation program was planned and was coordinated by the firm.

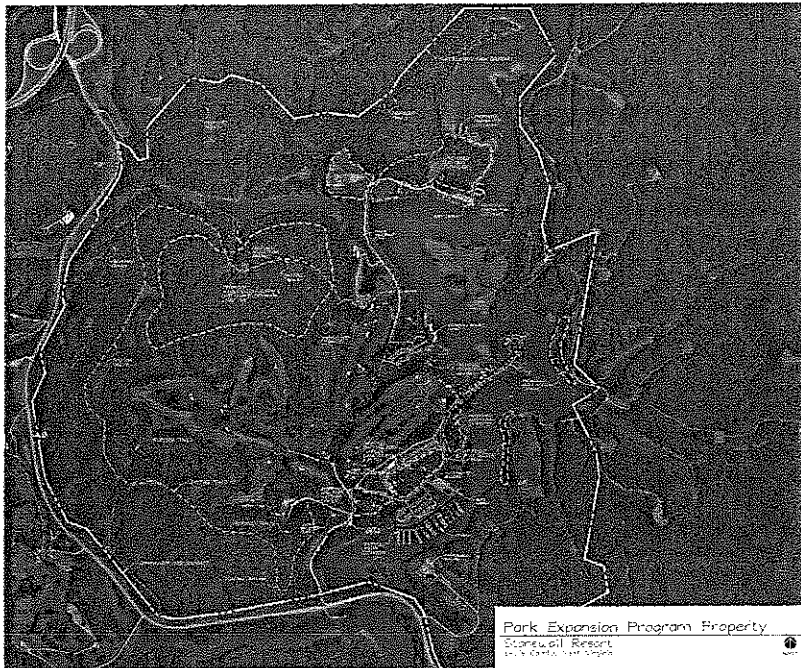
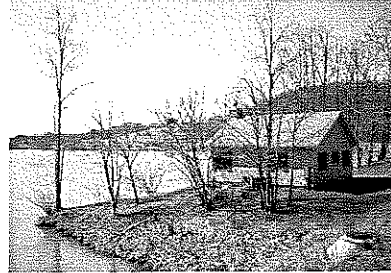
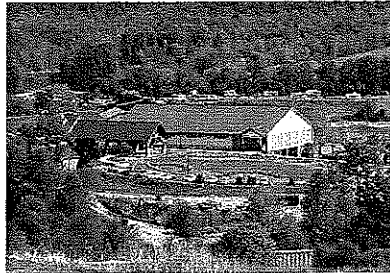
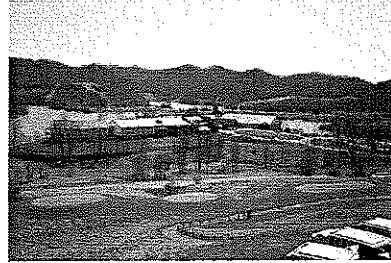
This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.

**CLIENT:**

McCabe-Henley Properties for West Virginia State Parks

**LOCATION:**

Weston, West Virginia



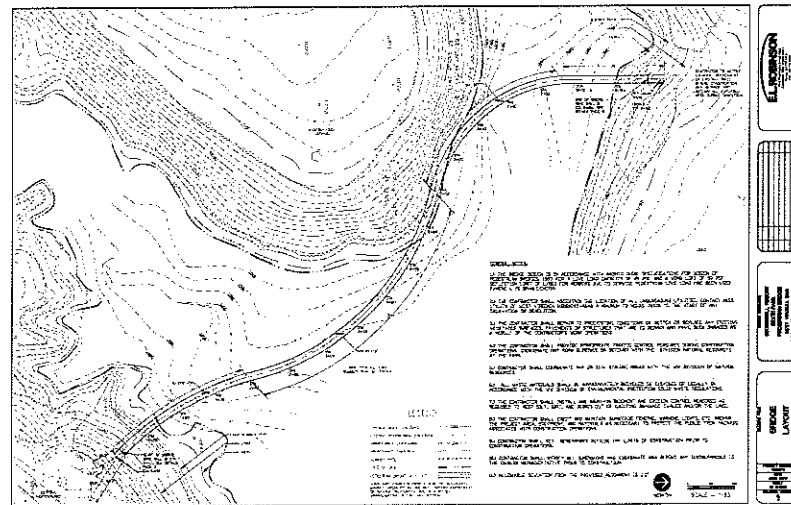


# Stonewall Jackson Lake Resort Pedestrian Bridge

West Virginia DNR received grant to build a pedestrian bridge approximately 900 feet across the lake from the lodge to the campground. An initial concept plan was developed for the bridge in 2008 which serves as the basis of the final design which E.L. Robinson was retained to develop.

It will be a 10' wide timber pile bridge with appropriate wooden decking and handrail. The accessible approach on the lodge side is complete and the contractor will be required to connect the bridge to that existing approach. At the campground end of the bridge an alignment will be shown on the plans that will allow for the Resort to build that accessible approach separate from the bridge construction.

**CLIENT:**  
West Virginia Division of Natural Resources  
**LOCATION:**  
Weston, West Virginia





# Davis Riverfront Park

E.L. Robinson's landscape architects were commissioned by the City of Davis to develop a master plan and report for upgrades to the Davis Riverfront Park, which is a five acre open space on the north shore of the Blackwater River extending from the bridge on WV route 32.

Wetlands are existent on a portion of the property, as well as concrete footings and pavements from the timber mill that preciously occupied the site during the late 1800's and early 1900's. At the time public access to the river was from WV route 32.

The Davis Park and Recreation Commission program recommendations for the park master plan were as follows:

- Create the park for foot traffic only with minimal vehicular intrusion for maintenance purposes only
- Further development of the herb garden and pond
- Interpret the industrial heritage of the site and the natural areas, i.e. wetlands
- Create improved access points to the park
- Develop a trail system for use by the town's populace for improved walking opportunities to maintain a healthy lifestyle
- Fishing opportunities along the Blackwater River
- Possible stage and/or amphitheater
- Picnic shelters

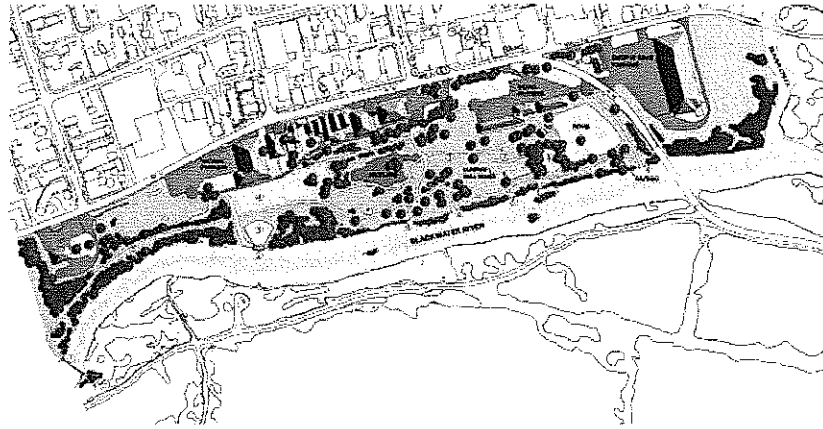
This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.

**CLIENT:**

Davis Park Commission

**LOCATION:**

Davis, WV



# Aspen Village

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E.L. Robinson's landscape architects provided master planning and managed site design, permitting and engineering for a new 50 lot subdivision near Timberline. The development involved grading layout for lots, roads, drives, utilities, pond enlargement, and site amenities. Project entailed 30 duplex and triples units and 20 single family lots. Coordinated utility extensions with each respective company and assisted several of the property owners with site planning of their home sites.

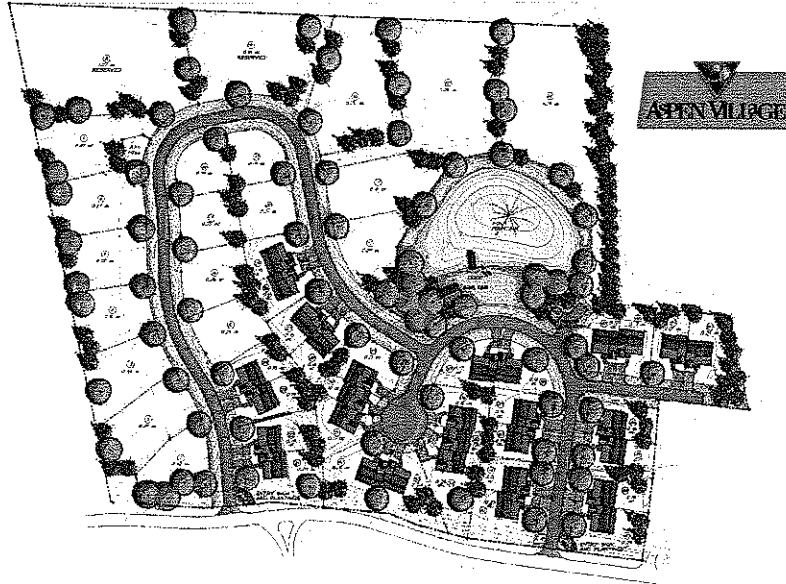
This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.

**CLIENT:**

Aspen Development, LLC

**LOCATION:**

Canaan Valley, West Virginia



# Blackwater Falls State Park Sewage Treatment Plant Replacement

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E.L. Robinson's role was to provide design and periodic construction inspection.

The existing metal sewage treatment plant serving the lodge at Blackwater Falls State Park is old and deteriorated. E.L. Robinson designed a new concrete sewage treatment plant, which eliminates the potential of rust. The new plant also uses ultraviolet disinfection and provides a sand filter prior to discharge into the Blackwater Canyon.

The new plant was constructed adjacent to the existing plant. Our design kept the existing plant in service during construction. A new building was also designed to match the building housing the existing plant.



**CLIENT:**

WV Department of Natural Resources

**LOCATION:**

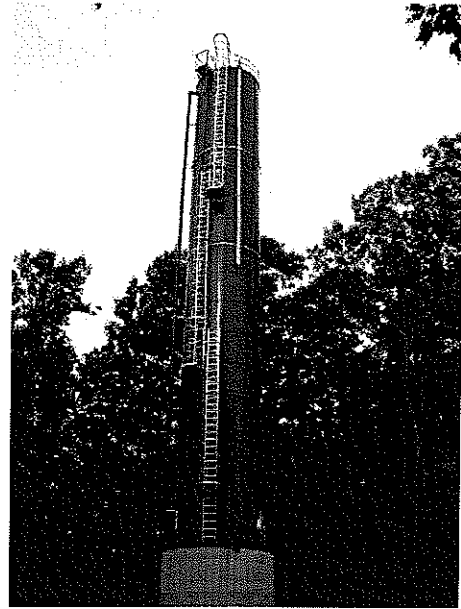
Tucker, West Virginia

# Coopers Rock, Pisgah and Laurel Run Waterline

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E.L. Robinson Engineering Co. was retained by the West Virginia Department of Environmental Protection to provide planning, design for water service improvements to Coopers Rock, Pisgah and Laurel Run.

The goal of ELR's water engineers was to produce a design that would enable our client to provide a safe, dependable and economical supply of water for their customers, whose water had been affected by pre-law mining. ELR prepared a computer model of the distribution system and performed hydraulic calculations of the proposed system and designed the necessary pumping and storage tank facility. The completed project supplies water to 77 customers. The system includes 32,226 LF of 6" waterline, 5,674 LF of 2" waterline, fire hydrants, a 53,000 gallon water storage tank and a 50 gpm duplex booster pump station.



**CLIENT:**

WV Department of  
Environmental  
Protection/Preston County  
PSD #4

**LOCATION:**

Preston County, West  
Virginia

# Curry Ridge Water Project

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E.L. Robinson was retained by the Town of Burnsville/Burnsville Public Utility Board PSD to provide services for this water project. The work involved upgrading the Burnsville Water Plant from a capacity of 250 gpm to 400 gpm. Also included was assumption of a portion of the Corps of Engineers water system and extension of the water system from the Bulltown Campground to Curry Ridge. The project serves 80 customers.

The project consisted of approximately 32,000 lineal feet of water main, a booster station, a 150,000 gallon water storage tank, fire hydrants, valves and other amenities.



**CLIENT:**

Town of Burnsville

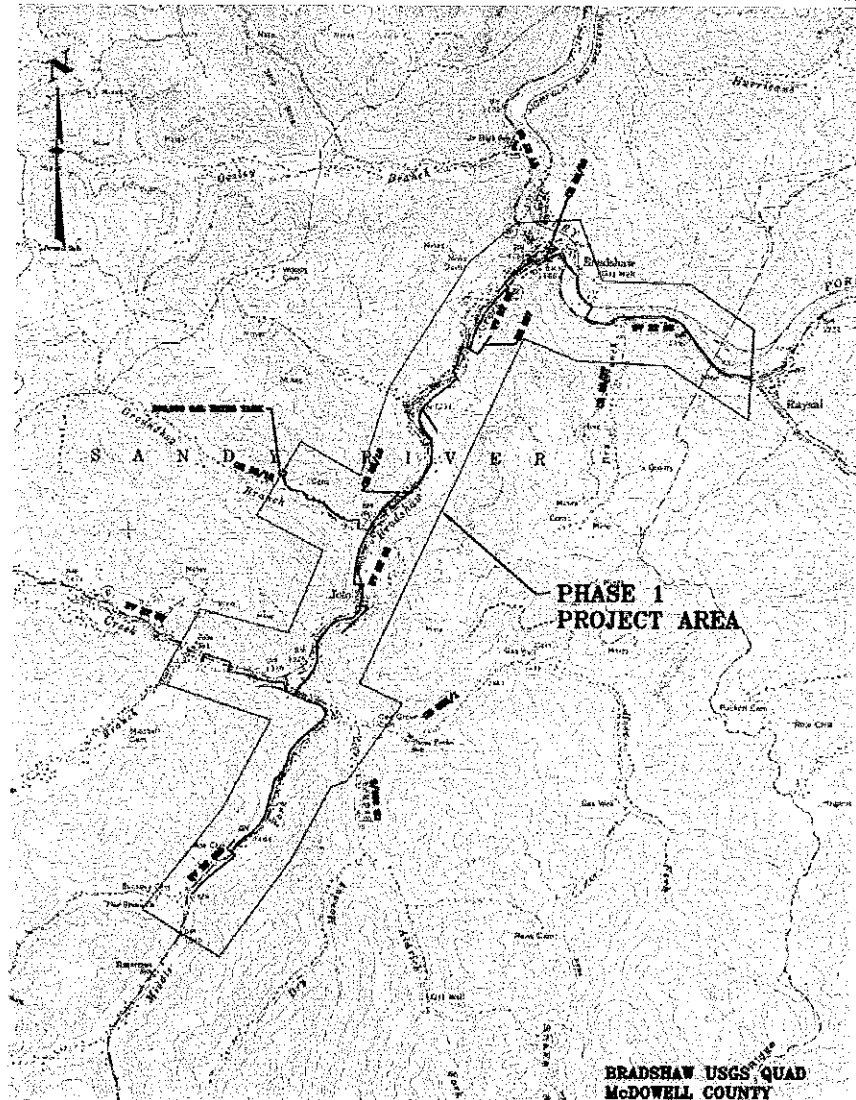
**LOCATION:**

Burnsville, West Virginia

# Jolo Phase 1 Water Project

E.L. Robinson assisted the McDowell County Public Service District in the extension of its Bartley Water System from Raysal through the Town of Bradshaw to the community of Jolo. The project involved upgrading the Bartley Water Treatment Plant from a flow rate of 230 to 460 gpm, constructing approximately 38,000 lineal feet of 10-inch and smaller diameter water lines, and constructing a 200,000 gallon water storage tank to serve 130 new customers and provide the basis for further phases.

**CLIENT:**  
McDowell County Public Service District  
**LOCATION:**  
McDowell County, West Virginia





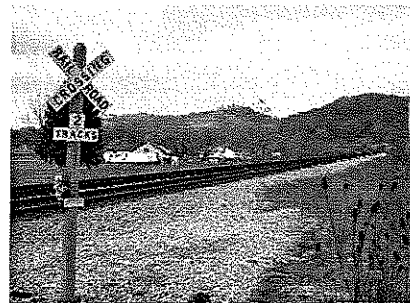
# Route 52 North

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E.L. Robinson was hired by the Wayne County Commission to provide an extension of water service to 260 residents along US 52 from just south of Prichard, WV, to just north of the intersection of 52/37 at the end of existing Fort Gay system and all intersection county routes.

The project consisted of approximately 122,318 lineal feet of water main, a water storage tank, one booster pump station, fire hydrants, valves and other amenities.

**CLIENT:**  
Lavalette Public Service District  
**LOCATION:**  
Lavalette, West Virginia



# **HE** Harper Engineering, PLLC

52 B Street  
St. Albans, WV 25177  
Office: 304.722.3602 Fax: 304.722.3603

Preston County Schools Fire Alarm Upgrades: New Fire Alarm Systems for Terra Alta Elementary School and Preston County High School.

Additions to Shady Spring Middle School: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for a four classroom addition.

Renovations to Park Middle School: HVAC, Plumbing, and Electrical design for a 3 classroom renovation.

Additions and Renovations to Flinn Elementary School: HVAC, Sprinkler, and Electrical design for renovations to an existing 35,800 sq ft elementary school. Also included a 12,800 sq ft addition. Currently under construction.

Renovations to Moorefield Elementary School: Electrical, Plumbing, Fire Alarm, and Sprinkler renovations to an existing 58,000 sq ft elementary school. Currently under construction.

Braxton Co Schools Bond Program: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for additions and renovations to 6 elementary schools throughout Braxton County. Total value of bond \$24,000,000.

W. Kent Carper Justice and Public Safety Complex: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for renovations to the 62,400 sq ft Justice and Public Safety Complex.

Rahall Technology and Business Center Community Based Outpatient Clinic: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for an 8,500 sq ft VA outpatient clinic.

Fairmont State College WV Folklife Center: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for a renovation to a 6,100 sq ft historic building.

**STAR LIFTS USA**  
Conveyors sold in USA Only!

#	Year	Serial #	Ski Area	State	Region	Use	Length			System Type
							(m)	Nominal (ft)	Actual (ft)	
1	1997		Big Sky	MT	W	Skiing	12	40	39	Belt - Diamond - Wooden
2	1997		Boyne Mt.	MI	M	Skiing	12	40	39	Belt - Diamond - Wooden
3	1997		Bretton Woods	NH	E	Skiing	12	40	39	Belt - Diamond - Wooden
4	1997		Steamboat City Park	CO	W	Skiing	15	50	49	Belt - Diamond - Wooden
5	1997		Stratton	VT	E	Skiing	15	50	49	Belt - Diamond - Wooden
3	1997		Killington	VT	E	Skiing	15	50	49	Belt - Diamond - Wooden
7	1998		Boyne Highlands	MI	M	Skiing	24	80	79	Belt - Diamond - Wooden
3	1999		Alpine Meadows	CA	W	Skiing	24	80	79	Chain
3	1999		Ascutney Mtn.	VT	E	Skiing	15	50	49	Belt - Diamond - Wooden
0	1999		Hidden Valley	PA	E	Skiing	24	80	79	Chain
1	1999		Hidden Valley	PA	E	Skiing	9	40	30	Belt - Diamond - Wooden
2	1999		Jiminy Peak	MA	E	Skiing	39	130	128	Belt - Diamond - Wooden
3	1999		King Pine	NH	E	Skiing	30	100	98	Belt - Diamond - Wooden
4	1999		Mammoth Mtn.	CA	W	Skiing	24	80	79	Belt - Diamond - Wooden - Deep Snow
5	1999		Mohawk	CT	E	Skiing	30	100	98	Chain
6	1999		Tahoe Donner	CA	W	Skiing	24	80	79	Chain
7	2000		Big Sky	MT	W	Skiing	66	220	217	Belt - Diamond - Wooden
8	2000	SK50098	Blue Hills	MA	E	Skiing	30	100	98	Belt - Diamond - Wooden
9	2000	SK50051	Cannon Mtn.	NH	E	Skiing	24	80	79	Belt - Diamond - Wooden
0	2000		Mammoth Mtn.	CA	W	Skiing	21	70	69	Belt - Diamond - Wooden - Deep Snow
1	2000	SK50097	Mt. Creek	NJ	E	Skiing	60	200	197	Belt - Diamond - Wooden
2	2000		Mt. Hood Meadows	OR	W	Skiing	18	60	59	Belt - Diamond - Wooden
3	2000	SK50009	Mt. Sunapee	NH	E	Skiing	15	50	49	Belt - Diamond - Wooden
4	2000	SK50008	Okemo Mtn.	VT	E	Skiing	15	50	49	Belt - Diamond - Wooden
5	2000	SK50079	Sun Valley	ID	W	Skiing	30	100	98	Chain
6	2000	SK50102	Whaleback	NH	E	Skiing	27	90	89	Belt - Diamond - Wooden
7	2001	SK60043	Boreal Ridge	CA	W	Skiing	39	130	128	Chain
8	2001	SK60058	Bretton Woods	NH	E	Skiing	33	110	108	Belt - Diamond - Wooden
9	2001	SK60007	Bromley	VT	E	Skiing	60	200	197	Belt - Diamond - Wooden
0	2001	SK60005	Buck Hill	MN	M	Skiing	30	100	98	Belt - Diamond - Wooden
1	2001	SK60055	Deer Valley	UT	W	Skiing	30	100	98	Screw Chain
2	2001	SK50134	Gore Mt.	NY	E	Skiing	30	100	98	Belt - Diamond - Wooden
3	2001	SK60044	Grand Geneva	WI	M	Skiing	48	160	157	Belt - Diamond - Wooden
4	2001	SK60114	Mohawk	CT	E	Skiing	18	60	59	Belt - Diamond - Wooden
5	2001	SK60073	Mt. Creek	NJ	E	Skiing	60	200	197	Belt - Diamond - Wooden
6	2001	SK60004	Mt. Rose	NV	W	Skiing	24	80	79	Belt - Diamond - Wooden
7	2001	SK60112	Sugar Bowl	CA	W	Skiing	30	100	98	Belt - Diamond - Wooden
8	2001	SK50133	Sunburst	WI	M	Skiing	18	60	59	Belt - Diamond - Wooden
9	2001	SK50140	Timberline Lodge	OR	W	Skiing	21	70	69	Belt - Diamond - Wooden - Deep Snow
0	2001	SK50141	White Pass	WA	W	Skiing	21	70	69	Belt - Diamond - Wooden
1	2001	SK50132	Wachusett	MA	E	Skiing	18	60	59	Belt - Rufftop - Wooden
2	2002	SK70029	Alta	UT	W	Skiing	45	150	148	7.5 kw Screw Chain
3	2002	SK70060	Boyne Highlands	MI	M	Skiing	90	300	295	Belt - Diamond - Wooden
4	2002	SK70052	Chestnut Mountain	IL	M	Skiing	30	100	98	Belt - Diamond - Wooden
5	2002		Gunstock	NH	E	Skiing	36	120	118	Belt - Diamond - Wooden
5	2002	SK70008	Loon Mountain	NH	E	Skiing	24	80	79	Belt - Diamond - Wooden
7	2002	SK70085	Mammoth Mtn.	CA	W	Skiing	24	80	79	Belt - Diamond - Hinged - Deep Snow - Height
3	2002	SK70009	Mt. Bachelor	OR	W	Skiing	21	70	69	Belt - Diamond - Wooden
3	2002	SK70006	Mt. Sunapee	NH	E	Skiing	108	360	354	Belt - Blue Eye - Hinged
0	2002	SK70134	Nashoba Valley	MA	E	Skiing	21	70	69	Belt - Blue Eye - Hinged
1	2002	SK70007	Okemo Mtn.	VT	E	Skiing	12	40	39	Belt - Diamond - Wooden
2	2002	SK70076	Paoifi Peaks	IN	M	Skiing	24	80	79	Belt - Diamond - Wooden
3	2002	SK70010	Smuggler's Notch	VT	E	Skiing	27	90	89	Belt - Diamond - Wooden
4	2002	SK70120	Snow Basin	UT	W	Skiing	24	80	79	Screw Belt - Diamond - Hinged
5	2002	SK70096	Sugarbush	VT	E	Skiing	27	90	89	Belt - Diamond - Wooden
5	2002	SK70046	Donner Ski Ranch	CA	W	Skiing	36	120	118	Belt - Diamond - Wooden
7	2003	SK80004	Alpine Valley	WI	M	Skiing	30	100	98	Belt - Blue Eye - Hinged
3	2003	SK80118	Angel Fire	NM	W	Skiing	36	120	118	Belt - Blue Eye - Fixed
3	2003		Anthony Lakes	OR	W	Skiing	24	80	79	Belt - Blue Eye - Wooden
0	2003	SK80003	Bittersweet	MI	M	Skiing	30	100	98	Belt - Blue Eye - Hinged
1	2003		Blue Mtn.	PA	E	Skiing	45	150	148	Belt - Blue Eye - Hinged
2	2003		Bromley	VT	E	Skiing	15	50	49	Belt - Rufftop - Fixed
3	2003	SK80154	Butternut	MA	E	Skiing	18	60	59	Belt - Blue Eye - Hinged
5	2003	SK80007	Catamount	NY	E	Skiing	87	290	285	Belt - Blue Eye - Hinged
5	2003	SK80012	Croched Mtn.	NH	E	Skiing	96	320	315	Belt - Blue Eye - Hinged
5	2003	SK80121	Hidden Valley	PA	E	Skiing	120	400	394	Belt - Blue Eye - Hinged
7	2003	SK80120	Hidden Valley	PA	E	Skiing	24	80	79	Belt - Blue Eye - Hinged
3	2003	SK80067	Kirkwood	CA	W	Skiing	24	80	79	Belt - Blue Eye - Fixed - Deep Snow - Height Adj.
3	2003	SK80068	Mammoth Mtn.	CA	W	Skiing	24	80	79	Belt - Blue Eye - Hinged - Deep Snow
0	2003	SK80088	McIntyre	NH	E	Skiing	51	170	167	Belt - Blue Eye - Hinged
1	2003	SK80046	Mt. Holly	MI	M	Skiing	30	100	98	Belt - Blue Eye - Hinged
2	2003	SK80002	Okemo Mtn.	VT	E	Skiing	120	400	394	Belt - Blue Eye - Fixed
3	2003	SK80011	Pats Peak	NH	E	Skiing	15	50	49	Belt - Rufftop - Hinged
1	2003	SK80005	Pine Knob	MI	M	Skiing	30	100	98	Belt - Blue Eye - Hinged
1	2003	SK80062	Snow Basin	UT	W	Skiing	72	240	236	Hyd Pas Belt - Blue Eye - Hinged

**STAR LIFTS USA**  
Conveyors sold in USA Only!

#	Year	Serial #	Ski Area	State	Region	Use	(m)	Length		Drive Size	System Type
								Nominal (ft)	Actual (ft)		
6	2003	SK70150	Sugar Bowl	CA	W	Skiing	72	240	236		Belt - Blue Eye - Fixed
7	2004	SK90014	Boreal Ridge	CA	W	Skiing	12	40	39		Belt - Blue Eye - Hinged - Deep Snow
8	2004	SK90015	Boreal Ridge	CA	W	Skiing	12	40	39		Belt - Blue Eye - Hinged - Deep Snow
9	2004	SK90005	Breckenridge	CO	W	Skiing	106	350	348		Belt - Rufftop - Fixed - Gallery
0	2004	SK90007	Breckenridge	CO	W	Skiing	39	130	128		Belt - Blue Eye - Fixed
1	2004	SK90008	Breckenridge	CO	W	Skiing	27	90	89		Belt - Blue Eye - Fixed
2	2004	SK90010	Breckenridge	CO	W	Skiing	18	60	59		Belt - Blue Eye - Fixed
3	2004	SK90011	Breckenridge	CO	W	Skiing	18	60	59		Belt - Blue Eye - Fixed
4	2004	SK90006	Heavenly Valley	CA	W	Skiing	60	200	197		Belt - Rufftop - Fixed
5	2004	SK90009	Keystone	CO	W	Skiing	27	90	89		Belt - Blue Eye - Fixed
6	2004	SK90013	Mammoth Mtn.	CA	W	Skiing	18	60	59		Belt - Blue Eye - Hinged - Deep Snow
7	2004	SK90012	Sundown	IA	M	Skiing	30	100	98		Belt - Blue Eye - Fixed
8	2004	SK90022	Crystal Mountain	MI	M	Skiing	109	360	358		Belt - Blue Eye - Fixed
9	2004	SK90023	Crystal Mountain	MI	M	Skiing	18	60	59		Belt - Blue Eye - Fixed
0	2004	SK90030	Hidden Valley Ski Area	MO	M	Skiing	90	300	295		Belt - Rufftop - Hinged
1	2004	SK90029	Big Rock	ME	E	Skiing	45	150	148		Belt - Rufftop - Fixed
2	2004	SK90024	Snow Summit	CA	W	Skiing	112	370	367		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
3	2004	SK90025	Snow Summit	CA	W	Skiing	87	290	285		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
4	2004	SK90028	Pats Peak	NH	E	Skiing	81	270	266		Belt - Blue Eye - Hinged
5	2004	SK90082	Cataloochee	NC	E	Tubing	69	230	226		Belt - Rufftop - Carpenter - 30"
6	2004	SK90165	Mohawk	CT	E	Skiing	54	180	177		Belt - Rufftop - Hinged
7	2004	SK80171	Cataloochee	NC	E	Skiing	21	70	69		Belt - Blue Eye - Hinged - SK8
8	2004	SK90035	Belleayre	NY	E	Skiing	24	80	79		Belt - Blue Eye - Hinged
9	2004	SK90068	Sun Valley	ID	W	Skiing	69	230	226		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
0	2004	SK90108	Sun Valley	ID	W	Tubing	99	330	325		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
1	2004	SK90067	Granite Gorge	NH	E	Skiing	90	300	295		Belt - Rufftop - Carpenter
2	2004	SK90066	Tubes-R-Uss	WA	W	Tubing	60	200	197		Belt - Rufftop - Hinged
3	2004	SK90065	Angel Fire	NM	W	Dual	219	720	719		Belt - Rufftop - Hinged - 30" - Active
4	2004	SK90064	Summit at Snoqualmie	WA	W	Skiing	48	160	157		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
5	2004	SK90076	Afton Alps	MN	M	Tubing	156	520	512		Belt - Rufftop - Carpenter - Active
6	2004	SK90077	Afton Alps	MN	M	Skiing	45	150	148		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
7	2004	SK90078	Afton Alps	MN	M	Skiing	36	120	118		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
8	2004	SK90075	Smuggler's Notch	VT	E	Skiing	75	250	246		Belt - Blue Eye - Hinged
9	2005	SK90163	Nashoba Valley	MA	E	Skiing	21	70	69		Belt - Blue Eye - Hinged
0	2005	SKD10010	Mt. Rose	NV	W	Skiing	129	430	423		Belt - Blue Eye - Fixed
1	2005	SKD10006	Bittersweet	MI	M	Skiing	114	380	374		Belt - Blue Eye - Hinged
2	2005	SKD10007	Mt. Holly	MI	M	Skiing	84	280	276		Belt - Blue Eye - Hinged
3	2005	SKD10009	Pine Knob	MI	M	Skiing	81	270	266		Belt - Blue Eye - Hinged
4	2005	SKD10008	Alpine Valley	WI	M	Skiing	81	270	266		Belt - Blue Eye - Hinged
5	2005	SKD10020	Keystone	CO	W	Skiing	81	270	266		Belt - Rufftop - Fixed - Gallery
6	2005	SKD10021	Breckenridge	CO	W	Skiing	30	100	98		Belt - Blue Eye - Fixed
7	2005	SKD10022	Breckenridge	CO	W	Skiing	30	100	98		Belt - Blue Eye - Fixed
8	2005	SKD10017	Bear Mountain	CA	W	Skiing	207	680	679		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed - Cwt
9	2005	SKD10016	Snow Summit	CA	W	Skiing	81	270	266		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
0	2005	SKD10015	Snow Summit	CA	W	Skiing	39	130	128		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
1	2005	SKD10014	Blue Mtn.	PA	E	Skiing	57	190	187		Belt - Blue Eye - Hinged
2	2005	SKD10018	Stevens Pass	WA	W	Skiing	30	100	98		Belt - Blue Eye - Fixed
3	2005	SKD10019	Stevens Pass	WA	W	Skiing	30	100	98		Belt - Blue Eye - Fixed
4	2005	SKD10027	Wild Mountain	MN	M	Tubing	150	500	492		Belt - Rufftop - Carpenter
5	2005	SKD10046	Schweitzer Mtn.	ID	W	Skiing	74	250	243		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
6	2005	SKD10057	Snowbird	UT	W	Skiing	30	100	98	Screw	Belt - Blue Eye - Hinged - Deep Snow
7	2005	SKD10052	Mad River Mountain	OH	M	Skiing	90	300	295		Belt - Rufftop - Hinged
8	2005	SKD10051	Paoli Peaks	IN	M	Skiing	90	300	295		Belt - Rufftop - Hinged
9	2005	SKD10053	Appalachian Ski Mtn.	NC	E	Skiing	96	320	315		Belt - Blue Eye - Hinged
0	2005	SKD10054	Monarch	CO	W	Skiing	18	60	59		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
1	2005	SKD10060	Okemo Mtn.	VT	E	Skiing	135	450	443		Belt - Blue Eye - Fixed
2	2005	SKD10061	Mt. Southington	VT	E	Skiing	15	50	49		Belt - Blue Eye - Hinged
3	2005	SKD10064	Vail Mtn.	CO	W	Skiing	117	390	384		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
4	2005	SKD10069	Blandford	MA	E	Skiing	18	60	59		Belt - Blue Eye - Hinged
5	2005	SKD10070	Granite Peak	WI	M	Skiing	74	250	243		Belt - Blue Eye - Fixed
6	2005	SKD10086	Stratton	VT	E	Skiing	18	60	59		Belt - Blue Eye - Hinged
7	2005	SKD10087	Stratton	VT	E	Skiing	30	100	98		Belt - Blue Eye - Hinged
8	2005	SKD10088	Copper Mountain	CO	W	Dual	120	400	394		Belt - Rufftop - 1/2 Hinged & 1/2 Fixed - 30"
9	2005	SKD10105	Aspen - Snowmass	CO	W	Skiing	36	120	118		Belt - Blue Eye - Fixed
0	2005	SKD10106	Aspen - Snowmass	CO	W	Skiing	36	120	118		Belt - Blue Eye - Fixed
1	2005	SKD10104	June Mountain	CA	W	Skiing	24	80	79		Belt - Blue Eye - Hinged
2	2005	SKD10098	Masanutten	VI	E	Tubing	168	560	551		Belt - Rufftop - Carpenter - 30"
3	2005	SKD10121	Shawnee Peak	ME	E	Skiing	63	210	207		Belt - Blue Eye - Fixed
4	2005	SKD10116	Sugarbush	VT	E	Skiing	132	440	433		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
5	2005	SKD10117	Homewood	CA	W	Skiing	24	80	79		Belt - Blue Eye - Hinged
6	2005	SKD10139	Bretton Woods	NW	E	Skiing	15	50	49		Belt - Blue Eye - Hinged
7	2005	SKD10157	Red River	NM	W	Skiing	30	100	98		Belt - Blue Eye - Hinged
8	2005	SKD10170	Moonlight Basin	MT	W	Skiing	24	80	79		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
9	2006	SKD11007	Elm Creek	MN	W	Tubing	108	360	354		Belt - Rufftop - "G" w/o - 30" - Cwt
0	2006	SKD11008	Snowbird	UT	W	Skiing	180	600	591	22.5 kw Active	Belt - Blue Eye - "G" w/ special walkways- Active
1	2006	SKD10195	Cataloochee	NC	E	Skiing	45	150	148		Belt - Blue Eye - Hinged
2	2006	SKD11009	Wintergreen	VA	E	Skiing	27	90	89		Belt - Blue Eye - "G" w/ Fixed One-side
3	2006	SKD11013	Alpine Valley	MI	M	Dual	78	260	256		Belt - Blue Eye - "G" w/ Fixed Both

**STAR LIFTS USA**  
Conveyors sold in USA Only!

#	Year	Serial #	Ski Area	State	Region	Use	(m)	Length		Drive Size	System Type
								Nominal (ft)	Actual (ft)		
54	2006	SKD11012	Devil's Head	WJ	M	Dual	123	410	404		Belt - Blue Eye - "G" w/ Fixed Both
55	2006	SKD11011	Sierra Summit	CA	W	Skiing	54	180	177		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
56	2006	SKD11016	Silver Mountain	ID	W	Dual	183	610	600		Belt - Blue Eye - Hinged
57	2006	SKD11015	Mt. Abram	ME	E	Skiing	45	150	148		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
58	2006	SKD11023	Big Boulder	PA	E	Tubing	180	600	591		Belt - Rufftop - "G" w/o - Active
59	2006	SKD11019	Boston Mills	OH	M	Tubing	75	250	246		Belt - Blue Eye - "G" w/ Fixed both
60	2006	SKD11020	Mad River Mountain	OH	M	Tubing	135	450	443		Belt - Rufftop - "G" w/ Fixed One-side
61	2006	SKD11021	Paoli Peaks	IN	M	Tubing	120	400	394		Belt - Rufftop - "G" w/ Fixed One-side
62	2006	SKD11022	Snow Creek	MO	M	Tubing	138	460	453		Belt - Rufftop - "G" w/o
63	2006	SKD11025	Bogus Basin	ID	W	Skiing	60	200	197		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
64	2006	SKD11031	Mammoth Mtn.	CA	W	Skiing	45	150	148		Belt - Blue Eye - Hinged
65	2006	SKD11026	Great Bear	SD	M	Skiing	90	300	295		Belt - Blue Eye - "G" w/ Fixed One-side
66	2006	SKD11033	Pats Peak	NH	E	Dual	156	520	512		Belt - Blue Eye - "G" w/ Fixed Both
67	2006	SKD11032	Attitash	NH	E	Skiing	63	210	207		Belt - Blue Eye - Hinged
68	2006	SKD11034	Winterplace	WV	E	Tubing	90	300	295		Belt - Rufftop - "G" w/o
69	2006	SKD11035	Winterplace	WV	E	Tubing	96	320	315		Belt - Rufftop - "G" w/o
70	2006	SKD11036	Winterplace	WV	E	Skiing	105	350	345		Belt - Blue Eye - "G" w/ Fixed One-side
71	2006	SKD11037	Winterplace	WV	E	Skiing	111	370	364		Belt - Blue Eye - "G" w/ Fixed One-side
72	2006	SKD11043	Bradford	MA	E	Skiing	30	100	98		Belt - Blue Eye - Hinged
73	2006	SKD11049	Wisp	MD	E	Tubing	156	520	512		Belt - Rufftop - "G" w/o
74	2006	SKD1104	Hyland	MN	M	Skiing	60	200	197		Belt - Rufftop - "G" 1/2 walkway 1/2 w/o - 30"
75	2006	SKD11048	Ski Sundown	CT	E	Skiing	15	50	49		Belt - Blue Eye - Hinged
76	2006	SKD11063	Showdown Montana	MT	W	Skiing	45	150	148		Belt - Blue Eye - Fixed
77	2006	SKD11064	Grand Geneva	WI	M	Skiing	48	160	157		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
78	2006	SKD11068	Homewood	CA	W	Skiing	36	120	118		Belt - Blue Eye - Hinged
79	2006	SKD10195	Smuggler's Notch	VT	E	Skiing	36	120	118		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
80	2006	SKD11103	Windam	NY	E	Skiing	51	170	167		Belt - Blue Eye - Hinged
81	2007	SKD12001	Tahoe Donner	CA	W	Skiing	120	400	394		Belt - Blue Eye - "G" w/ Walkways
82	2007	SKD12004	Keystone	CO	W	Tubing	129	430	423		Belt - Rufftop - Fixed - Gallery
83	2007	SKD12002	Aspen - Snowmass	CO	W	Skiing	24	80	79		Belt - Rufftop - Fixed - Gallery
84	2007	SKD12003	Aspen - Snowmass	CO	W	Skiing	75	250	246		Belt - Rufftop - Fixed - Gallery
85	2007	SKD12016	Breckenridge	CO	W	Skiing	18	60	59		Belt - Blue Eye - Fixed
86	2007	SKD12014	Stratton	VT	E	Skiing	168	560	551		Belt - Rufftop - 1/2 Hinged & 1/2 Fixed - Gallery
87	2007	SKD12015	Okemo Mtn.	VT	E	Skiing	108	360	354		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
88	2007	SKD12018	Powder Ridge	MN	M	Tubing	195	650	640		Belt - Rufftop - "G" w/o
89	2007	SKD12019	Brandywine	OH	E	Tubing	96	320	315		Belt - Rufftop - "G" w/o
90	2007	SKD12020	Brandywine	OH	E	Tubing	99	330	325		Belt - Rufftop - "G" w/o
91	2007	SKD12021	Mad River Mountain	OH	E	Tubing	135	450	443		Belt - Rufftop - "G" w/o
92	2007	SKD12022	Spring Hill Camp	MI	M	Tubing	90	300	295		Belt - Rufftop - "G" w/ Walkways
93	2007	SKD12029	Shawnee Mountain	PA	E	Skiing	135	450	443		Belt - Blue Eye - "G" w/ Walkways
94	2007	SKD12030	Shawnee Mountain	PA	E	Skiing	120	400	394		Belt - Blue Eye - "G" w/ Walkways
95	2007	SKD12034	Lutsen Mountains	MN	M	Skiing	84	280	276		Belt - Rufftop - "G" w/ Walkways
96	2007	SKD12037	Mountain High	CA	W	Tubing	132	440	433		Belt - Rufftop - "G" w/ Walkways
97	2007	SKD12038	Berkshire East	MA	E	Tubing	105	350	345		Belt - Rufftop - "G" w/ Walkways One-side
98	2007	SKD12065	Smuggler's Notch	VT	E	Skiing	6	20	20		Belt - Blue Eye - Hinged
99	2007	SKD12045	Alpine Valley	WI	M	Skiing	81	270	266		Belt - Blue Eye - Hinged
0	2007	SKD12046	Ragged Mountain	NH	E	Skiing	60	200	197		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
1	2007	SKD12081	Seven Springs	PA	E	Tubing	147	490	482		Belt - Rufftop - "G" w/ Walkways
2	2007	SKD11090	Snowshoe	WV	E	Skiing	45	150	148		Belt - Blue Eye - Hinged - Gallery
3	2007	SKD11184	Boreal Ridge	CA	W	Tubing	60	200	197		Belt - Rufftop - 1/2 Hinged & 1/2 Fixed
4	2008	SKD13019	Butternut	MA	E	Skiing	54	180	177		Belt - Blue Eye - Hinged
5	2008	SKD13004	Boreal Ridge	CA	W	Tubing	120	400	394		Belt - Rufftop - 1/2 Hinged & 1/2 Fixed
6	2008	SKD13003	Sea Coast Fun Park	ME	E	Tubing	105	350	345		Belt - Rufftop - "G" w/ Walkways
7	2008	SKD13007	Wild Mountain	MN	M	Skiing	33	110	108		Belt - Blue Eye - "G" w/ Walkways
8	2008	SKD13008	Amesbury Sports Park	MA	E	Tubing	156	520	512		Belt - Rufftop - "G" w/o - 30"
9	2008	SKD13015	Kirkwood	CA	W	Skiing	45	150	148		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
0	2008	SKD13016	Devil's Head	WI	M	Skiing	90	300	295		Belt - Blue Eye - "G" w/ Walkways
1	2008	SKD13011	Blue Mtn.	PA	E	Tubing	192	640	630		Belt - Rufftop - "G" w/ Walkways
2	2008	SKD13012	Loon Mountain	NH	E	Skiing	159	530	522		Belt - Blue Eye - "G" w/ Walkways
3	2008	SKD13018	Heavenly Valley	CA	W	Skiing	54	180	177		Belt - Blue Eye - Hinged
4	2008	SKD13020	Butternut	MA	E	Skiing	57	190	187		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
5	2008	SKD13019	Butternut	MA	E	Skiing	52	180	171		Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
6	2008	SKD13022	Alpine Meadows	CA	W	Skiing	60	200	197		Belt - Blue Eye - Fixed
7	2008	SKD13021	Mt. Hood Meadows	OR	W	Skiing	84	280	276		Belt - Rufftop - Fixed - Gallery
8	2008	SKD13041	Mt. Snow	VT	E	Skiing	30	100	98		Belt - Rufftop - Hinged - 30"
9	2008	SKD13046	Mountain High	CA	W	Skiing	54	180	177		Belt - Blue Eye - Hinged
0	2008	SKD13044	Breckenridge	CO	W	Skiing	12	40	39		Belt - Blue Eye - Fixed
1	2008	SKD13045	Ski Santa Fe	NM	W	Skiing	60	200	197	11 kW Screw	Belt - Blue Eye - "G" w/ Walkways - Screw Tens
2	2008	SKD13061	Taos Ski Valley	NM	W	Skiing	100	330	328	Hyd Pas	Belt - Rufftop - "G" w/ Walkways - Gallery
3	2008	SKD13062	Taos Ski Valley	NM	W	Skiing	30	100	98	7.5 kw Screw	Belt - Rufftop - "G" w/ Walkways
4	2008	SKD13050	Berkshire East	MA	E	Skiing	84	280	276		Belt - Blue Eye - "G" w/ Walkways
5	2008	SKD13060	Killington	VT	E	Skiing	138	460	453		Belt - Blue Eye - "G" w/ Walkways
6	2008	SKD13065	Seven Springs	PA	E	Tubing	150	500	492		Belt - Rufftop - "G" w/o - 30"
7	2008	SKD13063	Ski Apache	NM	W	Tubing	48	160	157		Belt - Blue Eye - "G" w/ Walkways - Screw Tens
8	2008	SKD13074	Granite Gorge	NH	E	Skiing	18	60	59		Belt - Blue Eye - "G" w/ Walkways
9	2008	SKD13075	Alta	UT	W	Skiing	45	150	148	7.5 Screw	Belt - Blue Eye - 1/2 Hinged & 1/2 Fixed
0	2008	SKD13094	Wisp	MD	E	Tubing	156	520	512	Hyd Pas	Belt - Rufftop - "G" w/ Walkways



## Project Profiles



### MONT SAINT-SAUVEUR

"With thanks to HKD Snowmakers and their SV10 technology, after 24 hours of operating time, in extremely marginal conditions of -2°C to -4°C (28F to 25F) and very high humidity, we were able to open for skiing and riding on October 18th. A record for us and the earliest opening for a Quebec Ski Area EVER!"

— **David Dufour**, Operations Director, Mont Saint-Sauveur International



"We strongly believe we are headed in the right direction with the SV10 method of snow production at our resort. While snowmaking will always require significant energy expense, by using the SV10201 Tower for the past two seasons, we have noticed a dramatic reduction in our system air/water ratios and the amount of physical effort needed to operate the SV10 Towers as compared to our old ground gun system . Plus, the quality of the snow produced is equal to the old system at its best and more consistent mountain wide."

— **Bill Schenk**, Snowmaking Foreman, Peek 'n Peak Resort & Spa



"The HKD SV10201 has enabled our Resort to open more terrain earlier in the season when trail count really matters. The marginal temperature performance is impressive, especially considering it only uses 100 cfm per tower. The SV10's four stages of water flow let our snowmakers maximize production while ensuring optimum snow quality as temperatures drop.

Bottom line—HKD Snowmakers allow us to make more snow with less compressed air."

—**Chris Corliss**, Mountain Manager, Mount Sunapee Resort



"This year we exclusively used the SV10 tower guns to make snow on the Hay Fever World Cup Slalom run. The versatility of this tower gun to allow lower flow at marginal temperatures and easily progress to higher water flow at lower temperatures by simply opening one or two valves, is really appreciated by our snowmaking team. The quality and volumes of snow produced insured that this run was opened well ahead of our late November race date."

—**Brad Brush**, Director of Mountain Operations, Panorama Mountain Village



With the 2007/08 ski season drawing to a close, the new snowmaking system we installed last Fall has more than proven its worth.

Our HKD Super Blizzard system significantly outperformed expectations. We were able to use up to 850' of hose from the hydrant, and at one point used 550' of hose from the trailer to the gun, providing huge versatility and range from each hydrant. Even though we had a great natural snow season, the snowmaking still allowed us to provide the best venue possible for teaching and races.

We can't wait to see how long it will carry us into the Spring. There is no question in my mind that in the future, as we look back, there will be two eras in Trapp Family Lodge Nordic skiing- "Before Snowmaking" and "After Snowmaking". Thanks again for all your support through the planning, installation and operation.

—**Sam von Trapp**, Trapp Family Lodge, Stowe, Vermont



"For the past three years we have used a variety of HKD energy efficient snow guns, including the SV10. This gun is a very reliable, low maintenance snowgun from initial start up at moderate temperatures to our lows in the mid minus 20's.

The series of banks to add or reduce water flow is a snowmakers dream. It uses a constant CFM of air so as it gets colder and requires more water it becomes more efficient. I would recommend this piece of artillery to any serious snowmaking team."

—**John Cameron**, Snowmaking Supervisor, Ski Martock



"The SV10 has completely changed the way we are able to run our business. The efficiency of this gun and the amount of snow it can generate in a short period of time has lengthened the ski season making it a better experience for our customers."

—**Rob Gasper**, Park Coordinator, D.M. Gordon Chinguacousy Park

### **Resorts all around the world are using the SV10201 Tower:**

Abenaki Ski Area NH  
Alpine Ski Club ONT  
Alts Resort, Japan  
Beaver Valley Ski Club ONT  
Blue Mountain ONT  
Bolton Valley Resort VT  
Bradford Ski Area MA  
Breckenridge Ski Resort CO

Northstar-at-Tahoe CA  
Okemo Mountain Resort VT  
Osler Bluffs Ski Club, Ltd. ONT  
Panorama Mountain Village BC  
Pats Peak NH  
Peek 'n Peak Resort & Spa NY  
Ragged Mountain CO  
Seven Springs Mountain Resort



Bromley Mountain Resort VT	PA
Bryce Resort VA	Ski Windham NY
Caledon Ski Club, Ltd. ONT	Snowshoe WV
Camelback Ski Area PA	Steamboat Ski & Resort Corp.
Chinguacousy Ski Area ONT	CO
Deer Valley Resort Company UT	Sunday River Ski Resort ME
Keystone Resort CO	The Canyons Resort UT
Mammoth CA	Trapps Family Lodge VT
Mount Sunapee Resort NH	Tremblant QU
Mt. St Louis Moonstone Ski Resort ONT	Wachusett Mountain Ski Area MA
	Whistler Blackcomb BC
	Yong Pyong Resort, Korea



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