



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
 DEP15097

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 CHUCK BOWMAN
 304-558-2157

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
06/29/2010				

BID OPENING DATE: 07/20/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
ADDENDUM ISSUED FOR THE GARDEN GROUND HIGHWALLS PROJECT TO DISTRIBUTE THE PRE-BID SIGN-IN SHEETS, TABLE OF CONTENTS, AGGREGATE GRADATIONS CHARTS, REVISED TRIANGULAR SILT DIKE DRAWING, REVISED IMPOUNDMENT DRAIN TEMPORARY TRAP DRAWING, REVISED SEDIMENT TRAP DRAWING, SPECIFICATION REVISIONS, VOLUME CALCULATION SHEETS, AND THE Q/A RESULTING FROM THE MANDATORY PRE-BID MEETING 06/20/10.						
BID OPENING DATE & TIME REMAIN UNCHANGED AS 07/20/10 AT 1:30 PM.						
***** NO OTHER CHANGES *****						
0001	1	JB	962-73	RECLAMATION: RESTORATION OF LAND & OTHER PROPERTIES		
***** THIS IS THE END OF RFQ DEP15097 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	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 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).

MANDATORY PRE-BID SIGN-IN ATTENDANCE SHEET
GARDEN Ground HW Phase I
PRINT LEGIBLY

RFQ # : 15097
Project: GARDEN Ground HWs
Phase I

Bid Date: JULY 20, 2010
Pre-Bid Date: JUNE 22, 2010

Name : NOEL C RYDER
Company: DAVID L RYDER CONTRACTOR
Address: PO Box 447
White Sulphur Springs
WV 24986
Phone #: 304-536-9383
Fax #: 304-536-9381
Email : RYDERCONTRACTING@Sudden
LINKMAIL.COM

Name : Buck Green
Company: West Contracting, Inc
Address: 2608 Airport Rd
MARBLE, NC 28905
Phone#: 919-624-2911
Fax #: 919-851-6739
Email : bgreen@WESTCONTRACTINGINC.COM

Name : Brad Bowers
Company: Kokosing Construction
Address: 886 McKinley Ave
Columbus OH 43222
Phone #: 614-228-1029
Fax #: 614-228-7065
Email : rbbs@kokosing.biz

Name : LES BOLEN
Company: ASPEN CORP
Address: 2400 RITER DR
DANIELS WV
25832
Phone#: 304-763-4573
Fax #: 304-763-4591
Email : lbolex@aspengolf.com

Name : Ken Lake
Company: Kokosing Const.
Address: 886 McKinley Ave
Columbus, Ohio 43222
Phone #: 614-228-1029
Fax #:
Email : Ken@Kokosing.biz

Name : David H. Bowman
Company: GREEN MOUNTAIN CO
Address: 511 50th STREET
CHAS WV 25304
Phone#: 304 925 0253
Fax #: 925 9230
Email : Jody Maye AOL.COM

Name : Mike Lively
Company: Veccellio & Rogaw Inc
Address: P.O Box 2438
2251 Robert C Byrd Dr
Beckley, WV 25802
Phone #: 304-252-6575
Fax #: 304-252-4131
Email : mlively@veccellioRogaw.com

Name : DENNIS C. ELBAN
Company: COWGIRL UP INC
Address: PO Box 245
SIMPSON, WV 26435
Phone#: 304-739-4397
Fax #: 304-739-4401
Email : DCE-COWGIRLUP@EARTHWAVE.NET

MANDATORY PRE-BID SIGN-IN ATTENDANCE SHEET

PRINT LEGIBLY

RFQ # : ~~15997~~ 15097
 Project: Garden Ground Highwalls
Phase I

Bid Date: 7/20/10
 Pre-Bid Date: 6/22/10

Name : Rick Hertzner
 Company: Veccilio & Grogan
 Address: P.O. Box 8438
Beckley WV
25802

Phone #: 304-252-6575
 Fax #: 252-4131
 Email : Rick.Hertzner@veccilio.com
JJ.com

Name : Ann Warowell
 Company: EASTERN Arrow
 Address: PO BOX 4108
CHARLES TON WV
25364

Phone#: 304-414-0255
 Fax #: 0256
 Email : easternarrow@hotmail.com

Name : DAVID LAWMAN
 Company: KANAWHA STONE CO.
 Address: P.O. BOX 503
NITRO WV 25143

Phone #: 304-755-8271
 Fax #: 304-755-8274
 Email : David.Lawman@KanawhaStone.com

Name : Tony Bradford
 Company: Pineville Paving & Excavating Inc.
 Address: P.O. Box 1290
Pineville WV 24874

Phone#: 304-732-8303
 Fax #: 304-732-7855
 Email : tonypp@aol.com

Name : TYLER DODD
 Company: BEAR CONTRACTING
 Address: 112 STATE ST
BRIDGEPORT WV 26330

Phone #: 304 842 3002
 Fax #: 304 842 7433
 Email : tdodd@bear-contracting.com

Name : Jon Comer
 Company: NORCO
 Address: 467 Phillips Run Rd
Summersville 26651

Phone#: 304 619-7889
 Fax #: 304 877-4365
 Email : jonathan.comer@yahoo.com

Name : JAMES ALLEN
 Company: JF ALLEN CO
 Address: PO Box 2019
Duckhannon WV

Phone #: 304 472 8890
 Fax #: 304 472 8897
 Email : JAMES.ALLEN@JFALLENCO.COM

Name : DERRICK SEARS
 Company: FOSTER SUPPLY
 Address: PO Box 488
SCOTT DEPOT WV

Phone#: 304-553-6565
 Fax #: 304-755-8280
 Email : dsears@fostersupply.com

MANDATORY PRE-BID SIGN-IN ATTENDANCE SHEET

PRINT LEGIBLY

RFQ # : ~~15907~~ 15097
Project: Garden Ground Highwalls
Phase I

Bid Date: 7/20/10
Pre-Bid Date: 6/22/10

Name : Dale Thexton
Company: Thexton Const Co Inc
Address: PO Box 18279
Charleston WV
25360
Phone #: 304 984 2294
Fax #: 304 984 2334
Email : _____

Name : _____
Company: _____
Address: _____
Phone# : _____
Fax # : _____
Email : _____

Name : Randy Carpenter
Company: Carpenter Reclamation
Address: PO Box 13015
Sissonville, WV
25360
Phone #: 304-984-1115
Fax #: 984-2770
Email : RC ar p on 1030 act.com

Name : _____
Company: _____
Address: _____
Phone# : _____
Fax # : _____
Email : _____

Name : Mike Hoffman
Company: Jimmy Dunn Excavating
Address: PO Box 7414 Sissonville Wv
Sissonville WV 25320
Phone #: 304-722-3246
Fax #: 304-722-4317
Email : dunn@jimmydunnexcavating.com

Name : _____
Company: _____
Address: _____
Phone# : _____
Fax # : _____
Email : _____

Name : Joe Pingley
Company: E.C.I.
Address: 100 Pingley Ridge
Milton, WV 25544

Name : _____
Company: _____
Address: _____

Phone #: 304 546 8241
Fax #: 304 755-7321
Email : joepingley@earthlink.net

Phone# : _____
Fax # : _____
Email : _____

**TECHNICAL SPECIFICATIONS
GARDEN GROUND HIGHWALLS
PHASE I**

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Special Provisions

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Technical Specifications

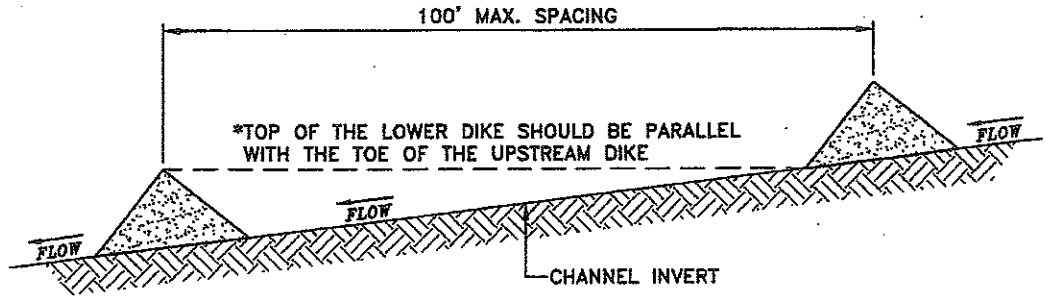
1.0 Mobilization and Demobilization	11
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**ADDENDUM NO. 1
AGGREGATE GRADATIONS
GARDEN GROUND HIGHWALLS-PHASE I
FAYETTE COUNTY, WEST VIRGINIA**

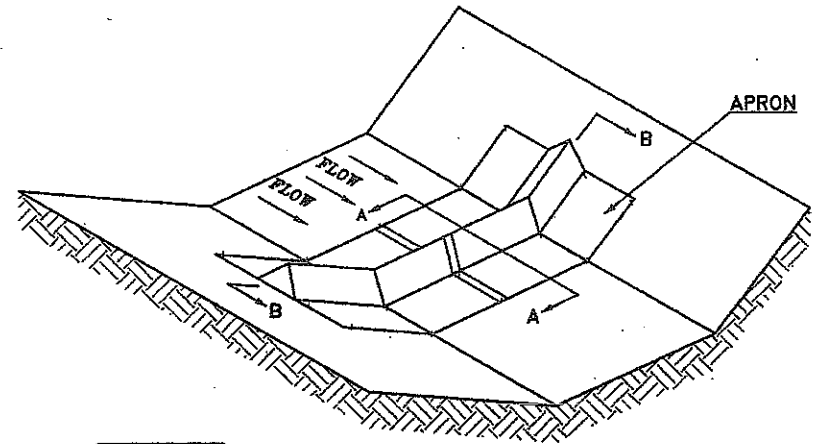
Aggregate Type	Aggregate Description	Amounts Finer than Sieve Size, Percentage by Weight									
		18	9	4	2	1	3/4	1/2	#4	#40	#200
A	Rip-Rap (Large)	100	0								
B	Rip-Rap (Medium)		100	0							
C	Drainage Stone				100	90-100	20-55	0-10			
D	Pipe Bedding/Backfill							100	30-75	8-40	4-20

The above referenced chart contains information as to the stone that will be crushed on site for the landowner. For the Garden Ground Highwalls AML project, the following stone used on the project correlates accordingly:

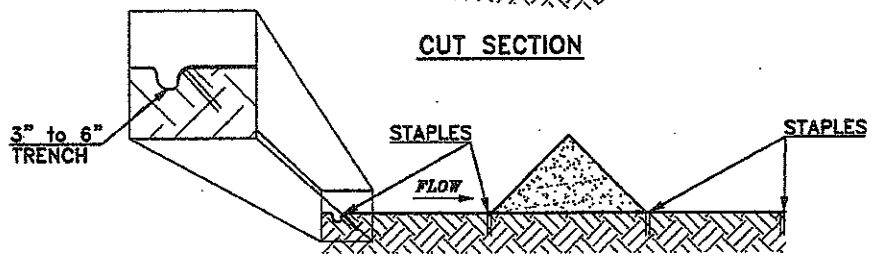
- Riprap, with D_{max} of 18 inches and D_{50} of 12 inches, to a D_{min} of 6 inches diameter, shall be Type A. This riprap shall be used for Type C channels, riprap aprons, drive throughs and riprap groins accordingly.
- Riprap, with D_{max} of 9 inches, shall be Type B. This riprap shall be used for sediment traps.
- #57 Stone, used at sediment traps, shall be Type C.
- AASHTO #4 stone, used for underdrains and mine seals, shall be Type C.
- AASHTO #5 stone, used for the construction entrance, shall be Type C.
- Class I (crusher run) Pipe Bedding shall be Type D.
- The 1"-9" rock fill used for the fill benches, shall be shot rock as provided by the crushing operation.



TYPICAL SPACING DIAGRAM



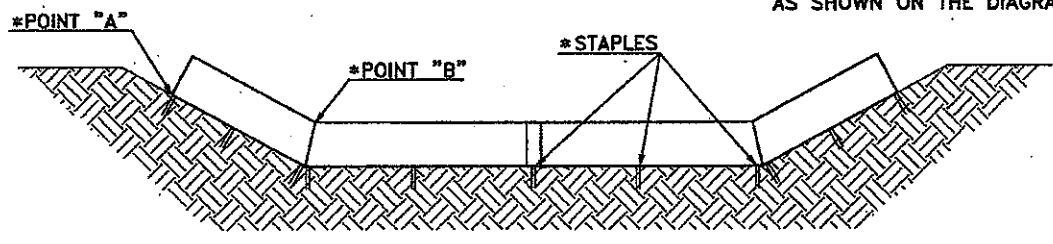
CUT SECTION



SECTION A-A

*POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

* STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE 7" UNIT AS SHOWN ON THE DIAGRAMS.



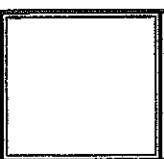
SECTION B-B

NOTES:

1. BY ACF ENVIRONMENTAL TRISILT7 OR EQUAL.
2. CONTRACTOR TO REMOVE AFTER VEGETATION HAS BEEN ESTABLISHED. SILT DIKE CAN THEN BE REUSED IN ALTERNATE LOCATION.
3. CONTRACTOR TO MAINTAIN ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

A TRIANGULAR SILT DIKE
79 NO SCALE

DATE	NO.	REVISION

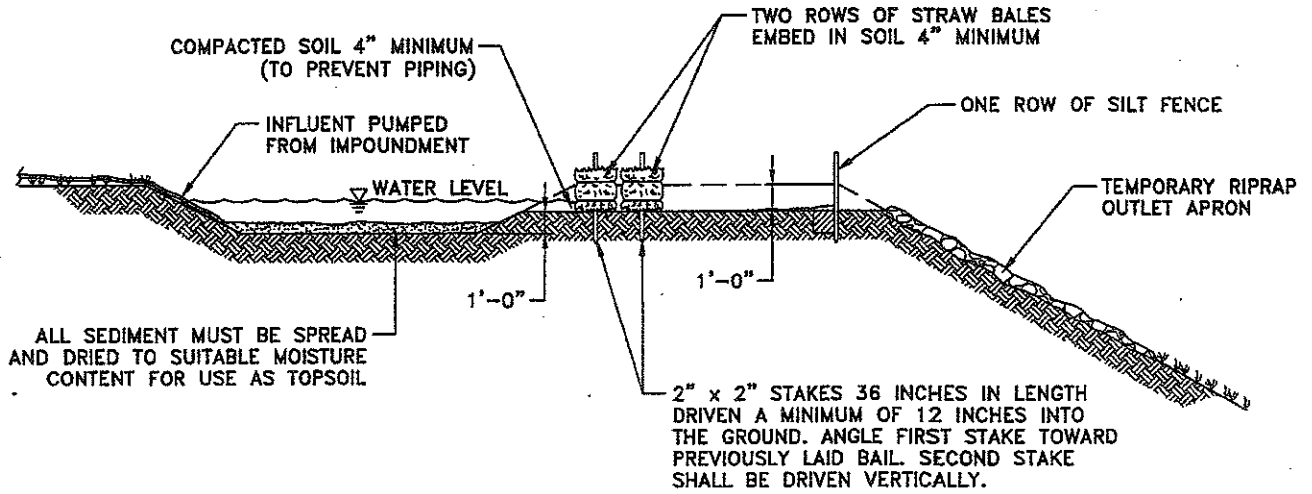


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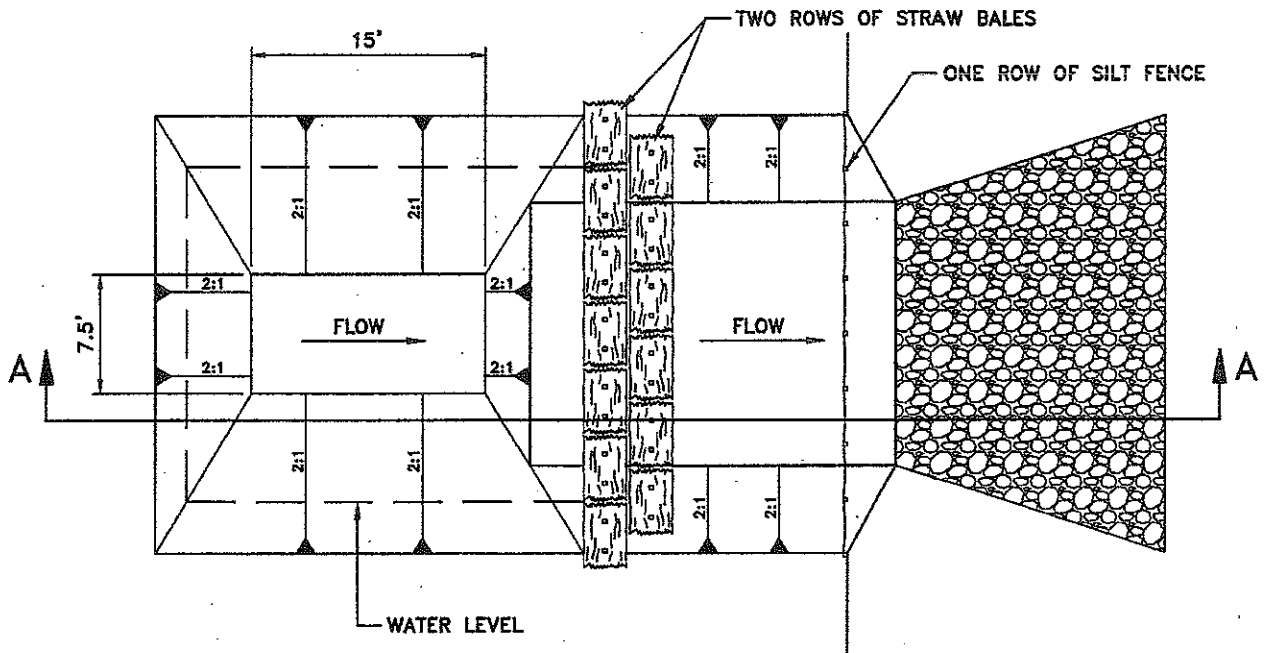
ADDENDUM - 1
MISCELLANEOUS DETAILS SHEET 79
GARDEN GROUND HIGHWALLS - PHASE 1
FAYETTE COUNTY, WEST VIRGINIA

Project No.	09056-0039
Drawn	WLD
Checked	TYW
Approved	TYW
Date	AS NOTED
Date	6-24-2010
Scale	AS NOTED
Sheet No.	09056-0039-05

AD-1



SECTION A-A



PLAN VIEW

NOTES:

1. STAKING TO BE DRIVEN THROUGH THE BALE A MINIMUM OF 12 INCHES INTO THE GROUND.
2. STRAW BALES SHALL BE PLACED AND SECURED AS SHOWN TO CONTAIN AND FILTER IMPOUNDMENT WATER.

C **IMPOUNDMENT DRAIN TEMPORARY TRAP**
79 NO SCALE

DATE	NO.	REVISION



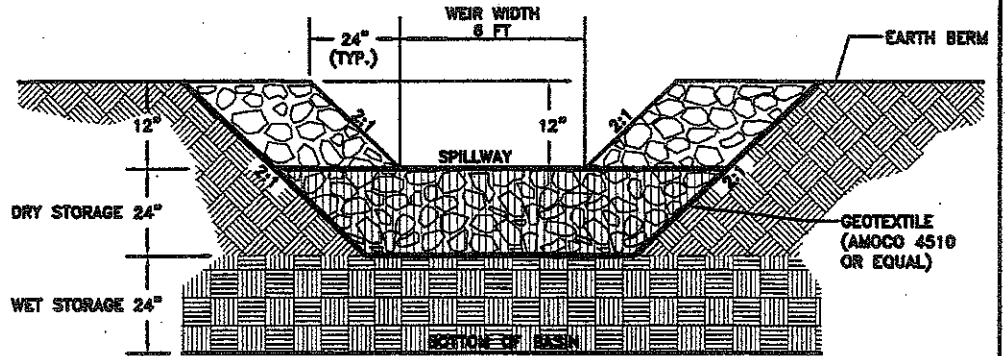
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ADDENDUM - 1
MISCELLANEOUS DETAILS SHEET 79

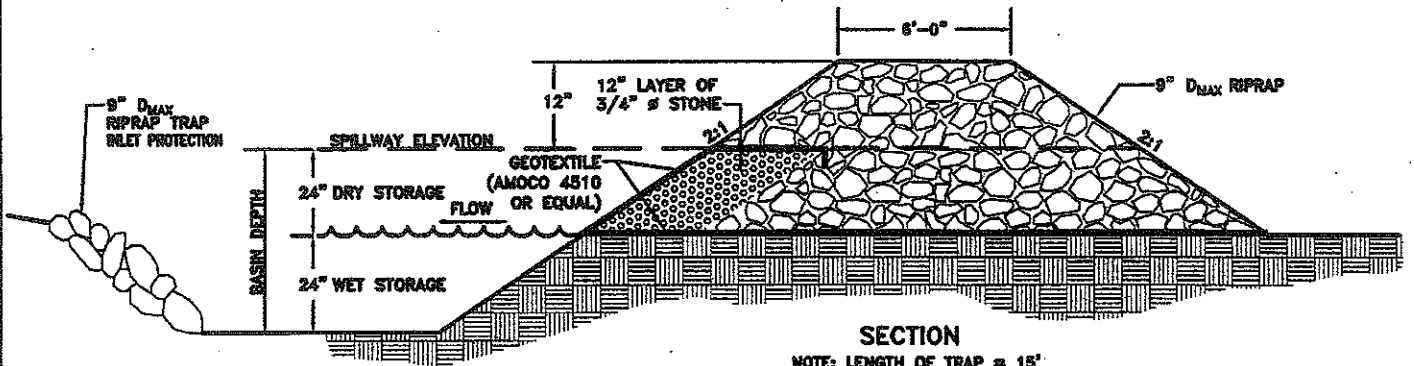
GARDEN GROUND HIGHWALLS - PHASE 1
FAYETTE COUNTY, WEST VIRGINIA

Project No.	09058-0030
Drawn	WLC
Checked	TTW
Approved	TTW
Scale	AS NOTED
Date	8-24-2010
CD No.	09058-0030-05

AD-2



ELEVATION



SECTION

NOTE: LENGTH OF TRAP = 15'

F SEDIMENT TRAP
 76 NO SCALE (ES-SED-TRAP.DWG)

DATE	NO.	REVISION



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ADDENDUM - 1
 MISCELLANEOUS DETAILS SHEET 76
 GARDEN GROUND HIGHWALLS - PHASE 1
 FAYETTE COUNTY, WEST VIRGINIA

Project No.	00056-0039
Drawn	MLG
Checked	TTW
Approved	TTW
Scale	AS NOTED
Date	6-24-2010
CAD File #	00056-0039-05

AD-3

Req # DEP 15097
Garden Ground Highwalls Phase I
Addendum #1

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REVISIONS TO SPECIFICATIONS

Article II – Bidding Information – 8.0 “Time of Completion and Liquidated Damages” - Last sentence – Eliminate “two hundred and fifty dollars (\$250), Add “five hundred dollars (\$500).

Sheet Index is attached for the Construction Specifications.

Special Provision XIV “Electricity, Water Supply and Sanitary Facilities” - Delete the following sentences “There are no available supplies at the site of electricity and water and, additionally, there are no sanitary facilities. Arrangements for electric service, water supply and sanitary facilities shall be made by the Contractor, and all costs for such arrangements shall be borne by the Contractor at no additional cost to the Department.” Add “The Contractor shall supply the office trailer and make any necessary hookups. The Contractor will not be responsible for water and sewer payment. The Contractor will be responsible for cost of electricity, telephone, fax, toilet facilities, housekeeping and trash pickup and associated hookups. These costs will be incidental to the cost of Mobilization.”

Special Provision XVIII “Temporary Access Roads” – Add “The Contractor shall obtain permission from the landowner to construct any access roads not shown on the drawings. The Contractor shall maintain these roads, provide sediment control for these roads and reclaim these roads at no cost to the WVDEP.” Also add “Roads outside of the AML Construction Limits that are shared by other Contractors will be maintained by the landowner.

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Garden Ground Highwalls Phase I
Addendum #1

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To meet NPDES permit requirements add Special Provision XXII "Construction Sequence" as follows:

Special Provision XXII Construction Sequence

Installation of super silt fence.
Clearing and grubbing as work progresses.
Grading of site.
Placing of straw wattles as fills reach grade.
Seeding and mulching as soon as site reaches final grade.
Construction of drainage structures.
Installation of sediment traps and erosion matting within drainage channels.
Final seeding and mulching.
Sediment control devices will remain in place and will not be removed.

Add Special Provision XXIII "Work Hours/Site Security" – "The Contractor shall be allowed to work Monday through Saturday as many shifts as necessary. The Contractor will not be allowed to work on Sundays except in emergency situations and with the approval of the WVDEP and the landowner. The Contractor shall be responsible for security of the AML project sites and equipment."

Specification 1.2 "Description" – second paragraph – last sentence – Delete "The site will have sewer, electric and water service provided to the trailer." Add "The site will have, provided by the owner, sewer and water service, but the Contractor shall provide services and payments as outlined in Special Provision XIV "Electric, Water Supply and Sanitary Facilities."

Specification 2.3.1 "Construction Methods" – Add "The Contractor is required to have a survey crew on site daily to set and check grades."

Specification 2.4 – Measurement and Payment – Add "Cross sections for payment and as-built plans shall be signed by a Licensed Land Surveyor licensed in the State of WV."

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Garden Ground Highwalls Phase I
Addendum #1

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Specification 3.1.1 “Fill and Compaction” – First paragraph - Add “The Contractor is required to have a compaction technician on site daily when fill is being placed. Material placed in highwall backfill, including rock already on site, shall be no larger than 2 feet in any dimension.

Specification 5.2.6 – second sentence – Delete “Six inch maximum diameter size riprap shall be used to construct the traps as well as filter fabric (AMOCO 4510, or equal), per the detail shown in the plans.” Add “Type B Aggregate riprap shall be used to construct the traps as well as filter fabric (AMOCO 4510, or equal), per the detail shown and as outlined in the Aggregate Gradations chart attached to Addendum No. 1.

Specification 5.4.3 – Add “A detail drawing labeled “Triangular Silt Dike” giving additional information for silt dike construction is attached to Addendum No. 1. The silt dikes is not required to remove the silt dikes after vegetation is established.

Specification 7.2.1 – First paragraph – Second sentence – Delete “The rock shall range in size from a Dmax of 24 inches, D50 of 12 inches, to a Dmin of 6 inches diameter with no more than 15 percent by weight less than Dmin for each type where riprap is to be used.” Add “The rock shall be the aggregate type outlined in the Aggregate Gradations chart attached to Addendum No. 1.

Specification 7.2.1 – Second paragraph – Delete third sentence “For this project, the property owner, Trinity Works LLC, will crush all rock necessary for the project, and will also load all rock required at the rock quarry location shown on the plans.” Add “For this project the landowner will crush all rock necessary for the project and will place the rock in stockpiles at the rock borrow site. The Contractor will be responsible for loading the rock in his trucks and hauling the rock to the locations on the project.” (This is a change from the discussion at the prebid meeting).

Specification 7.3.3 – third sentence – Delete “Groins are “V” shaped and are to receive 18-inches of Dmax 18-inch riprap, with a Dmin of 6” and D50 of 12 inches.” Add “Groins are “V” shaped and are to receive Aggregate Type A stone as outlined in the Aggregate Gradations chart attached to Addendum No. 1.

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Garden Ground Highwalls Phase I
Addendum #1

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Specification 7.3.8 – Delete “The Type C channel shall be a typical riprap channel, as detailed in the plans. The rock shall range in size from a Dmax of 18 inches to a Dmin of 6 inches diameter, and D50 of 12 inches with no more than 15 percent by weight less than Dmin.” Add “The rock shall be Aggregate Type C aggregate as outlined in the Aggregate Gradations chart attached to Addendum No. 1.

Specification 8.2 “Water Handling” – Add “The existing impoundments on the bench areas shall be dewatered by pumping. The water shall discharge into straw bale sediment control devices shown on the attached drawings. No separate payment shall be made for this work. Payment for the pumping and construction of the sediment control devices shall be incidental to Item 8.0 “Unclassified Excavation.” A detail drawing labeled “Impoundment Drain Temporary Trap” is attached to Addendum No. 1.

Specification 8.6 – “Final Shaping and Contouring” – Add “Final grade elevation tolerance for the highwall backfill slopes shall be within +/- 2 feet of the final grade shown on the plans. Grade adjustments will require approval from the WVDEP.”

Specification 8.8 “Basis of Payment” – Add “Payment for excavation can be submitted on the 15th of each month and 30th of each month. Quantities must be reasonably estimated and submitted on the 15th but cross sections are to be submitted on the 30th. These cross sections will encompass the areas submitted for payment on the 15th for verification and quantities will be adjusted at that time.”

Specification 9.2.1 “Stone” – Delete “The stone shall consist of sound, durable No. 4 (1/2” to 1/34”) non-calcareous crushed stone such as that commercially available.” Add “The stone shall consist of sound, durable Type C aggregate as outlined in the Aggregate Gradations chart attached to Addendum No. 1.”

Specification 9.3.4 – The Contractor is reminded that the pipes and bulkheads in the bat gates need to be installed prior to September 1, 2010. The pipes will be extended as fills are placed.

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Garden Ground Highwalls Phase I
Addendum #1

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Specification 11.2.1 – First sentence – Delete “Stone for underdrain shall consist of crushed, non-calcareous stone aggregate meeting the gradation requirements of AASHTO No. 4 aggregate.” Add “Stone for underdrain shall consist of Type C aggregate as outlined in the Aggregate Gradations chart attached to Addendum No. 1.”

Specification 11.4.1 – Second sentence – Delete “AASHTO No. 1 aggregate” and replace with “Type C aggregate as outlined in the Aggregate Gradations chart attached to Addendum No. 1.”

QUESTIONS AND ANSWERS

QUESTIONS AT NATIONAL GUARD ARMORY

Q: Can you provide us with a quantity of rock that will be used for muck excavation?

A: No. The Contractor can use cross sections that show the impoundment areas to calculate an approximate volume of rock required.

Q: When do we anticipate a Notice to Proceed?

A: If the winning bidder submits required information (such as bond, insurance, etc.) to the Purchasing Division, the Preconstruction Meeting can possibly be held within a week after bid opening. The WVDEP can issue a Notice to Proceed the day of the Preconstruction Meeting if the Contractor submits all necessary paper work.

Q: When will the addendum be put out?

A: Completed by us and sent to Purchasing this week and sent to you by Purchasing next week (week of June 28th).

Q: The specifications state that liquidated damages are \$250.00 per day but you stated \$500.00 per day. Will this be revised to \$500.00?

A: Yes, liquidated damages are now going to be \$500.00 per day.

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Garden Ground Highwalls Phase I
Addendum #1

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Q: If we are the only one using an access road will the stone required to repair the road be free or the cost of the Contractor?

A: The stone will be provided by the landowner. The stone will have to be loaded and hauled by the Contractor as revised and outlined in Specification 7.2.1, Addendum No. 1.

Q: Are the roads already there?

A: The roads are already in place. Other roads that the Contractor may want to construct will require a written agreement between the Contractor and the landowner. The Contractor will be responsible for maintaining and providing sediment control for any additional roads at no cost to the WVDEP.

Q: Will the sign in sheet be included in the addendum?

A: Yes. The sheets are attached.

Q: Who will determine that too much rock is being used?

A: If the landowner feels that too much rock is being used, we will have a meeting between the Contractor, the landowner and the WVDEP to resolve the situation.

Q: Can the Contractors be provided with the average end calculations for each section?

A: Yes. The average end calculations are attached. The calculations are approximate and not an exact number.

Q: Will the WVDEP have any restrictions on work hours?

A: See Special Provision XXIII "Work Hours" above.

Q: Do cross sections need to be signed by a surveyor?

A: Yes, as outlined in Specification 2.4.

Q: Is there a 2' lift thickness requirement whether on slopes or benches and the same everywhere on the project?

A: Yes, except there are tighter lift specifications for items outlined in Section 7.0 "Drainage Structures".

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QUESTIONS ASKED AT PROJECT SITES

Q: Do we have to stockpile timber where the landowner wants it or where the Contractor wants?

A: There are areas specified on the drawings. Other timber stockpile areas the Contractor may utilize with the approval of the WVDEP and the landowner.

Q: Are we cutting the top of the highwall and pushing down?

A: No, most of the highwall backfill consists of moving material from in front of the highwall as outlined on the drawings. A few areas will require excavation from above the highwall as shown on the drawings.

Q: Is the Contractor responsible for sediment control on shared access roads?

A: No. The Contractor is responsible for sediment control on access roads within the Construction Limits and new roads constructed by the Contractor.

Q: Everything we are seeing on the sites will be here when we start construction?

A: Yes.

Q: Is there acid water on site?

A: None was found however the Contractor will be responsible for any damages caused by dewatering activities. Water from the impoundments is to be pumped and discharged through the straw bale filters as attached in this addendum.

Q: Can the Contractor use on site rock to stabilize the bottom of the dewatered impoundments?

A: Yes but the rock must be properly sized and consist of hard durable sandstone approved by the WVDEP.

Q: Do the roads get stoned?

A: No, the benches are to be seeded when finished.

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Q: Is the Contractor responsible for erosion and sediment control after construction is completed and the next Contractor moves in or is the original Contractor responsible for 1 year?

A: When the new Contractor moves in and starts construction, the new Contractor becomes responsible. If the new Contractor does not move in, the original Contractor will be responsible until the 1 year warranty period has expired.

Q: So the roads will not be driven on after we are done?

A: The Contractor will not be responsible for damages by others.

Q: Do all the sites balance?

A: Yes. The Contractor will not need to haul material from one site to another but some trucking may be required within each of the sites.

Q: Are all of the bat gates the same?

A: They are constructed of the same material but some of the gates have sloping pipes and some do not. See the drawings for details.

Q: What size pipe is used for the gates?

A: The pipe is 36" inside diameter as shown on the drawings.

Q: What is the rock used for on this highwall (asked at Highwall F)?

A: Riprap channels, rock aprons and any impoundment areas that may need dewatered and muck removed.

Q: Can the Contractor make wide areas so rock trucks can pass?

A: Yes, at appropriate areas.

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Q: What about coming back to the site after todays prebid?

A: The Contractor will be allowed to visit the site but visits must be arranged through Rob Ridgeway of Trinity Works, LLC (telephone 304-877-7907) and must check in with security guards. The Contractor will be allowed to visit the AML sites only.

Q: Is the WVDEP good with the gradation of the stone that will be supplied at the rock borrow site?

A: Yes, the suppliers will meet our gradation requirements. An Aggregate Gradations chart is attached to this addendum revising the aggregate sizes outlined in the specifications. This is the size rock that will be supplied and accepted by the WVDEP.

Volume Report

Project: T:\Project Arrow\DWG\Production Drawings\Highway\09056-0039-
**GARDEN GROUND HIGHWALLS\PHASE-1\Dwg\09056-0039-16-BASELINE-A-B-
 SECTIONS.dwg**

Alignment: SITE-1-HIGHWALL-B

Sample Line Group: highwall b sections

Start Sta: 0+00.000

End Sta: 6+50.000

<u>Station</u>	<u>Cut Area</u> (Sq.ft.)	<u>Cut Volume</u> (Cu.yd.)	<u>Reusable Volume</u> (Cu.yd.)	<u>Fill Area</u> (Sq.ft.)	<u>Fill Volume</u> (Cu.yd.)	<u>Cum. Cut Vol.</u> (Cu.yd.)	<u>Cum. Reusable Vol.</u> (Cu.yd.)	<u>Cum. Fill Vol.</u> (Cu.yd.)	<u>Cum. Net Vol.</u> (Cu.yd.)
0+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.000	163.95	151.80	151.80	80.78	74.80	151.80	151.80	74.80	77.01
1+00.000	196.34	333.60	333.60	286.56	340.13	485.40	485.40	414.93	70.47
1+50.000	250.69	413.92	413.92	455.40	687.01	899.32	899.32	1101.93	-202.61
2+00.000	262.64	475.31	475.31	902.02	1256.87	1374.63	1374.63	2358.80	-984.17
2+50.000	156.03	387.66	387.66	869.15	1639.97	1762.29	1762.29	3998.78	2236.48
3+00.000	217.80	333.83	333.83	964.74	1798.90	2096.13	2096.13	5797.68	3701.55
3+50.000	357.03	532.25	532.25	910.44	1736.27	2628.38	2628.38	7533.95	4905.57
4+00.000	314.21	646.01	646.01	1054.51	1719.42	3274.39	3274.39	9253.37	5978.98
4+50.000	252.96	525.16	525.16	628.75	1558.57	3799.54	3799.54	10811.94	7012.40
5+00.000	238.54	448.71	448.71	419.04	982.85	4248.25	4248.25	11794.80	7546.55
5+50.000	374.23	557.98	557.98	217.00	596.35	4806.23	4806.23	12391.14	7584.91
5+74.562	217.94	269.34	269.34	163.89	173.25	5075.58	5075.58	12564.39	7488.82
6+00.000	97.72	148.51	148.51	230.68	178.54	5224.09	5224.09	12742.94	7518.85
6+50.000	255.59	321.93	321.93	362.26	478.39	5546.02	5546.02	13221.33	7675.31

Volume Report

Project: T:\Project Arrow\DWG\Production Drawings\Highway\09056-0039-
**GARDEN GROUND HIGHWALLS\PHASE-1\Dwg\09056-0039-16-BASELINE-A-B-
 SECTIONS.dwg**

Alignment: SITE-1-HIGHWALL-A

Sample Line Group: HW-A-SECTIONS

Start Sta: 0+00.000

End Sta: 95+00.000

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
0+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.000	237.15	219.58	219.58	63.73	59.01	219.58	219.58	59.01	160.57
1+50.000	999.55	1145.09	1145.09	272.67	311.48	1364.67	1364.67	370.49	994.18
2+00.000	1046.44	1894.43	1894.43	661.80	865.26	3259.11	3259.11	1235.75	2023.36
2+50.000	285.37	1233.16	1233.16	435.43	1015.96	4492.26	4492.26	2251.70	2240.56
3+00.000	105.47	361.89	361.89	478.44	846.18	4854.15	4854.15	3097.88	1756.27
3+50.000	174.18	274.83	274.83	444.13	1043.04	5128.98	5128.98	4140.92	988.07
4+00.000	458.40	811.41	811.41	0.00	682.05	5940.40	5940.40	4822.97	1117.43
4+50.000	165.25	701.35	701.35	22.25	20.30	6641.74	6641.74	4843.27	1798.47
5+00.000	1.86	418.09	418.09	1460.08	5384.29	7059.84	7059.84	10227.57	-3167.73
5+50.000	480.47	463.96	463.96	709.10	3654.15	7523.79	7523.79	13881.72	-6357.92
6+00.000	503.82	911.37	911.37	319.81	952.69	8435.17	8435.17	14834.40	-6399.24
6+50.000	521.32	949.20	949.20	295.54	569.77	9384.36	9384.36	15404.17	-6019.81
7+00.000	552.94	994.68	994.68	461.23	700.71	10379.04	10379.04	16104.89	-5725.85
7+50.000	363.87	848.89	848.89	229.97	640.00	11227.93	11227.93	16744.89	-5516.95
8+00.000	608.56	853.67	853.67	5.46	209.06	12081.61	12081.61	16953.95	-4872.34
8+50.000	1015.59	1317.18	1317.18	0.00	5.27	13398.78	13398.78	16959.22	-3560.44
9+00.000	671.34	1516.51	1516.51	18.03	17.03	14915.29	14915.29	16976.25	-2060.96
9+50.000	340.47	936.86	936.86	95.78	105.38	15852.15	15852.15	17081.63	-1229.48
9+86.955	282.95	426.64	426.64	126.95	152.43	16278.78	16278.78	17234.05	-955.27
10+00.000	404.92	166.17	166.17	188.91	76.30	16444.95	16444.95	17310.36	-865.40
10+50.000	613.30	802.41	802.41	374.92	473.38	17247.37	17247.37	17783.74	-536.37
11+00.000	1159.00	1299.36	1299.36	31.36	316.14	18546.73	18546.73	18099.88	446.85
11+50.000	1594.61	2039.54	2039.54	0.02	29.86	20586.27	20586.27	18129.74	2456.53
12+00.000	1261.15	2132.16	2132.16	29.98	28.41	22718.43	22718.43	18158.15	4560.28

12+50.000	1044.85	1951.78	1951.78	71.91	96.46	24670.21	24670.21	18254.61	6415.60
13+00.000	1048.35	1938.15	1938.15	58.61	120.86	26608.36	26608.36	18375.47	8232.89
13+50.000	992.10	1590.55	1590.55	0.04	58.37	28198.91	28198.91	18433.84	9765.08
14+00.000	673.13	1290.64	1290.64	0.00	0.04	29489.55	29489.55	18433.88	11055.68
14+50.000	543.42	914.69	914.69	0.00	0.00	30404.25	30404.25	18433.88	11970.37
15+00.000	503.76	771.32	771.32	0.00	0.00	31175.57	31175.57	18433.88	12741.69
15+50.000	464.26	707.71	707.71	0.00	0.00	31883.27	31883.27	18433.88	13449.40
16+00.000	391.68	725.69	725.69	1.47	1.39	32608.96	32608.96	18435.26	14173.70
16+50.000	176.46	526.06	526.06	70.26	66.42	33135.02	33135.02	18501.68	14633.34
17+00.000	186.40	300.36	300.36	104.33	161.86	33435.38	33435.38	18663.54	14771.83
17+50.000	214.36	294.98	294.98	50.25	143.32	33730.35	33730.35	18806.86	14923.50
18+00.000	317.70	394.08	394.08	53.90	97.81	34124.43	34124.43	18904.67	15219.76
18+50.000	320.58	470.95	470.95	70.46	117.16	34595.38	34595.38	19021.83	15573.55
19+00.000	1022.59	1184.46	1184.46	23.17	84.12	35779.85	35779.85	19105.96	16673.89
19+50.000	1429.40	2270.36	2270.36	74.07	90.04	38050.20	38050.20	19196.00	18854.21
20+00.000	1656.59	2857.39	2857.39	92.56	154.29	40907.59	40907.59	19350.29	21557.30
20+50.000	1412.12	3000.31	3000.31	40.88	133.21	43907.91	43907.91	19483.50	24424.41
21+00.000	736.61	2831.54	2831.54	631.07	1118.99	46739.44	46739.44	20602.49	26136.96
21+50.000	1378.42	2704.69	2704.69	1138.03	2969.50	49444.13	49444.13	23571.99	25872.15
22+00.000	892.42	2615.04	2615.04	1437.47	3917.74	52059.18	52059.18	27489.73	24569.45
22+50.000	1155.30	1896.04	1896.04	1209.02	2450.45	53955.22	53955.22	29940.18	24015.04
23+00.000	1219.24	1886.24	1886.24	1346.19	1118.39	55841.46	55841.46	31058.57	24782.88
23+50.000	349.63	1243.80	1243.80	1778.21	1141.04	57085.26	57085.26	32199.61	24885.65
24+00.000	465.54	672.49	672.49	1785.89	1338.99	57757.74	57757.74	33538.60	24219.14
24+50.000	1135.87	1334.52	1334.52	1290.39	1177.49	59092.26	59092.26	34716.09	24376.17
25+00.000	1379.25	2092.18	2092.18	1084.51	1110.10	61184.44	61184.44	35826.19	25358.25
25+50.000	1377.40	2552.45	2552.45	730.13	1680.22	63736.89	63736.89	37506.41	26230.48
26+00.000	1067.73	2264.00	2264.00	480.57	1121.02	66000.90	66000.90	38627.43	27373.47
26+50.000	188.04	1314.17	1314.17	154.26	908.82	67315.07	67315.07	39536.25	27778.82
27+00.000	110.82	313.86	313.86	227.37	405.71	67628.93	67628.93	39941.96	27686.97
27+50.000	672.51	961.64	961.64	227.52	618.96	68590.57	68590.57	40560.92	28029.65
28+00.000	1903.70	3179.77	3179.77	455.94	1264.27	71770.34	71770.34	41825.20	29945.14
28+50.000	1541.02	4090.67	4090.67	780.98	2324.18	75861.01	75861.01	44149.37	31711.64
29+00.000	1533.99	3105.25	3105.25	980.22	2313.93	78966.26	78966.26	46463.30	32502.95
29+50.000	1489.92	2799.92	2799.92	1177.88	1998.24	81766.18	81766.18	48461.55	33304.63
30+00.000	1244.34	2531.72	2531.72	1314.66	2307.91	84297.90	84297.90	50769.45	33528.45
30+50.000	1162.34	2228.40	2228.40	1266.22	2389.70	86526.31	86526.31	53159.16	33367.15
31+00.000									

	1314.93	2257.33	2257.33	1407.90	2168.29	88783.64	88783.64	55327.45	33456.19
31+50.000	1367.88	2413.24	2413.24	1652.41	2286.84	91196.88	91196.88	57614.29	33582.59
32+00.000	1711.29	2851.08	2851.08	1979.26	3362.65	94047.95	94047.95	60976.94	33071.01
32+50.000	1557.58	2991.14	2991.14	1805.01	3298.01	97039.09	97039.09	64274.95	32764.14
33+00.000	0.07	1186.43	1186.43	2499.55	1424.09	98225.53	98225.53	65699.04	32526.49
33+50.000	1895.65	1755.30	1755.30	1573.85	3771.67	99980.83	99980.83	69470.70	30510.12
34+00.000	2135.73	3791.90	3791.90	855.06	2381.53	103772.72	103772.72	71852.24	31920.48
34+50.000	814.42	2769.31	2769.31	392.95	1216.00	106542.03	106542.03	73068.23	33473.80
35+00.000	909.50	1599.15	1599.15	777.66	1134.50	108141.18	108141.18	74202.73	33938.45
35+50.000	619.32	1415.58	1415.58	656.46	1327.89	109556.76	109556.76	75530.62	34026.14
36+00.000	402.90	946.50	946.50	682.38	1239.67	110503.26	110503.26	76770.29	33732.97
36+50.000	122.18	486.19	486.19	359.15	964.39	110989.45	110989.45	77734.68	33254.77
37+00.000	192.01	290.92	290.92	500.54	796.01	111280.37	111280.37	78530.69	32749.68
37+50.000	145.75	312.74	312.74	667.83	1081.82	111593.11	111593.11	79612.51	31980.60
38+00.000	499.65	597.59	597.59	482.94	1065.53	112190.70	112190.70	80678.04	31512.66
38+50.000	504.28	929.57	929.57	683.90	1080.41	113120.26	113120.26	81758.45	31361.82
39+00.000	620.01	1117.90	1117.90	436.87	1089.85	114238.16	114238.16	82848.30	31389.86
39+50.000	713.38	1433.16	1433.16	384.32	697.53	115671.32	115671.32	83545.82	32125.49
40+00.000	1135.97	1983.20	1983.20	478.79	970.00	117654.51	117654.51	84515.83	33138.68
40+50.000	986.91	2159.08	2159.08	1065.74	2006.81	119813.59	119813.59	86522.64	33290.95
41+00.000	938.01	1782.33	1782.33	1292.29	2183.36	121595.92	121595.92	88706.00	32889.92
41+50.000	1225.25	2003.02	2003.02	1770.12	2835.56	123598.94	123598.94	91541.56	32057.37
42+00.000	1055.98	2112.25	2112.25	1306.50	2848.72	125711.19	125711.19	94390.28	31320.90
42+50.000	396.67	1345.04	1345.04	1211.59	2331.56	127056.23	127056.23	96721.84	30334.39
43+00.000	168.97	463.13	463.13	1378.01	1590.66	127519.36	127519.36	98312.50	29206.86
43+50.000	132.00	188.59	188.59	1488.64	1350.91	127707.95	127707.95	99663.42	28044.54
44+00.000	246.31	285.37	285.37	1128.23	1368.56	127993.32	127993.32	101031.97	26961.35
44+50.000	443.97	639.15	639.15	1200.41	2156.15	128632.47	128632.47	103188.12	25444.35
45+00.000	1122.63	1450.55	1450.55	2054.67	3013.97	130083.02	130083.02	106202.09	23880.94
45+50.000	1180.22	2090.35	2090.35	1623.62	1919.72	132173.37	132173.37	108121.81	24051.56
46+00.000	1758.51	2554.33	2554.33	1282.87	1491.96	134727.70	134727.70	109613.77	25113.93
46+50.000	1679.63	2978.14	2978.14	540.82	1184.61	137705.84	137705.84	110798.38	26907.46
47+00.000	1157.82	2627.27	2627.27	274.14	754.59	140333.10	140333.10	111552.96	28780.14
47+50.000	1181.57	2166.09	2166.09	379.12	604.87	142499.20	142499.20	112157.83	30341.37
48+00.000	1490.96	3070.22	3070.22	3.81	459.36	145569.42	145569.42	112617.20	32952.23
48+50.000	1881.99	3945.70	3945.70	678.78	1178.41	149515.12	149515.12	113795.60	35719.52
49+00.000	1179.85	3128.67	3128.67	623.56	1711.80	152643.79	152643.79	115507.40	37136.39
49+50.000									

	495.48	1551.23	1551.23	478.61	1020.52	154195.02	154195.02	116527.92	37667.10
50+00.000	904.48	1240.68	1240.68	1014.69	1112.35	155435.70	155435.70	117640.27	37795.43
50+50.000	1137.20	1691.74	1691.74	1109.63	909.88	157127.44	157127.44	118550.15	38577.29
51+00.000	830.53	1620.40	1620.40	963.33	747.21	158747.84	158747.84	119297.36	39450.47
51+50.000	470.33	1144.59	1144.59	794.44	1090.78	159892.43	159892.43	120388.14	39504.29
52+00.000	508.46	870.49	870.49	822.75	830.99	160762.92	160762.92	121219.14	39543.78
52+50.000	207.91	641.89	641.89	882.38	864.21	161404.81	161404.81	122083.34	39321.47
53+00.000	85.45	271.63	271.63	314.30	1108.04	161676.45	161676.45	123191.38	38485.07
53+50.000	181.43	247.11	247.11	63.60	349.90	161923.56	161923.56	123541.28	38382.28
54+00.000	112.54	272.20	272.20	20.35	77.73	162195.76	162195.76	123619.01	38576.75
54+50.000	99.97	196.77	196.77	6.02	24.42	162392.53	162392.53	123643.43	38749.10
55+00.000	119.02	202.77	202.77	0.00	5.57	162595.30	162595.30	123649.00	38946.30
55+50.000	114.07	215.83	215.83	0.00	0.00	162811.13	162811.13	123649.00	39162.12
56+00.000	57.07	158.46	158.46	0.00	0.00	162969.59	162969.59	123649.00	39320.59
56+50.000	43.69	93.30	93.30	0.00	0.00	163062.89	163062.89	123649.00	39413.89
57+00.000	50.28	87.00	87.00	0.00	0.00	163149.89	163149.89	123649.00	39500.89
57+50.000	78.93	119.63	119.63	0.00	0.00	163269.52	163269.52	123649.00	39620.52
58+00.000	124.72	188.56	188.56	0.03	0.03	163458.08	163458.08	123649.03	39809.05
58+50.000	51.65	163.30	163.30	0.00	0.03	163621.38	163621.38	123649.05	39972.33
59+00.000	119.95	158.89	158.89	0.00	0.00	163780.27	163780.27	123649.06	40131.21
59+50.000	57.25	164.07	164.07	0.97	0.90	163944.34	163944.34	123649.96	40294.38
60+00.000	181.31	220.89	220.89	0.41	1.28	164165.23	164165.23	123651.24	40513.98
60+50.000	131.98	51.33	51.33	2.72	1.95	164216.56	164216.56	123653.19	40563.37
61+00.000	35.36	-17.58	-17.58	3.12	2.98	164198.98	164198.98	123656.17	40542.80
61+50.000	127.39	72.98	72.98	14.18	12.01	164271.96	164271.96	123668.18	40603.77
62+00.000	557.54	387.60	387.60	0.02	10.18	164659.56	164659.56	123678.36	40981.20
62+50.000	847.70	1094.39	1094.39	0.01	0.02	165753.95	165753.95	123678.38	42075.57
63+00.000	572.77	1315.26	1315.26	162.91	150.85	167069.21	167069.21	123829.24	43239.97
63+50.000	659.43	965.94	965.94	93.42	143.95	168035.15	168035.15	123973.19	44061.96
64+00.000	594.01	1160.59	1160.59	243.07	311.57	169195.73	169195.73	124284.76	44910.97
64+50.000	347.93	872.16	872.16	608.14	788.16	170067.89	170067.89	125072.92	44994.97
65+00.000	344.36	641.01	641.01	1435.06	1891.85	170708.90	170708.90	126964.78	43744.13
65+50.000	333.97	632.92	632.92	1376.07	1544.52	171341.82	171341.82	128509.29	42832.53
66+00.000	419.43	699.19	699.19	1206.81	1296.23	172041.02	172041.02	129805.52	42235.50
66+50.000	303.99	667.19	667.19	1029.44	1131.14	172708.21	172708.21	130936.66	41771.54
67+00.000	175.27	436.65	436.65	858.62	1211.55	173144.86	173144.86	132148.21	40996.64
67+50.000	396.43	529.35	529.35	437.56	1200.17	173674.20	173674.20	133348.38	40325.82
68+00.000									

	451.35	784.98	784.98	281.44	665.74	174459.18	174459.18	134014.12	40445.06
68+50.000	293.46	689.64	689.64	1444.90	1598.45	175148.82	175148.82	135612.57	39536.25
69+00.000	711.25	930.29	930.29	636.18	1926.92	176079.11	176079.11	137539.50	38539.61
69+50.000	1136.46	2366.87	2366.87	0.00	1264.46	178445.98	178445.98	138803.96	39642.02
70+00.000	788.30	2553.12	2553.12	14.91	25.32	180999.10	180999.10	138829.28	42169.82
70+50.000	612.38	1541.64	1541.64	72.85	125.34	182540.74	182540.74	138954.62	43586.12
71+00.000	79.58	640.70	640.70	285.57	331.88	183181.44	183181.44	139286.49	43894.95
71+50.000	578.97	676.26	676.26	254.98	666.54	183857.70	183857.70	139953.03	43904.67
72+00.000	249.73	767.31	767.31	160.73	384.92	184625.01	184625.01	140337.95	44287.06
72+50.000	382.39	585.29	585.29	355.90	478.37	185210.30	185210.30	140816.32	44393.98
73+00.000	469.10	608.44	608.44	453.71	764.37	185818.74	185818.74	141580.69	44238.06
73+50.000	615.67	1004.42	1004.42	442.26	829.60	186823.16	186823.16	142410.29	44412.87
74+00.000	541.04	1169.62	1169.62	522.86	871.43	187992.78	187992.78	143281.72	44711.06
74+50.000	230.59	770.24	770.24	484.02	919.53	188763.02	188763.02	144201.25	44561.77
75+00.000	197.21	396.11	396.11	205.14	638.12	189159.13	189159.13	144839.37	44319.76
75+50.000	259.34	422.73	422.73	321.62	487.74	189581.86	189581.86	145327.11	44254.75
76+00.000	335.41	494.25	494.25	234.55	449.06	190076.11	190076.11	145776.17	44299.94
76+50.000	301.64	435.26	435.26	228.31	257.49	190511.37	190511.37	146033.66	44477.71
77+00.000	367.52	473.51	473.51	384.36	267.98	190984.88	190984.88	146301.64	44683.24
77+50.000	702.92	973.95	973.95	713.33	957.37	191958.84	191958.84	147259.01	44699.82
78+00.000	841.05	1495.35	1495.35	767.61	1634.76	193454.19	193454.19	148893.77	44560.41
78+50.000	872.72	1586.83	1586.83	1063.30	1695.29	195041.01	195041.01	150589.07	44451.95
79+00.000	613.39	1376.03	1376.03	918.17	1834.70	196417.04	196417.04	152423.77	43993.28
79+50.000	266.77	765.42	765.42	1064.03	1119.24	197182.46	197182.46	153543.00	43639.45
80+00.000	226.28	449.26	449.26	722.03	1466.71	197631.72	197631.72	155009.71	42622.01
80+50.000	529.12	699.44	699.44	569.17	1195.56	198331.16	198331.16	156205.27	42125.89
81+00.000	856.20	1282.70	1282.70	794.23	1262.41	199613.86	199613.86	157467.68	42146.18
81+50.000	644.83	1467.00	1467.00	624.77	1766.95	201080.86	201080.86	159234.63	41846.23
82+00.000	476.83	1059.30	1059.30	1074.08	2444.09	202140.16	202140.16	161678.72	40461.44
82+50.000	384.14	809.34	809.34	807.35	2060.71	202949.50	202949.50	163739.44	39210.07
83+00.000	587.83	1057.18	1057.18	81.16	1278.35	204006.68	204006.68	165017.78	38988.90
83+50.000	509.41	1061.39	1061.39	123.20	214.46	205068.07	205068.07	165232.24	39835.83
84+00.000	325.04	772.64	772.64	197.20	296.67	205840.71	205840.71	165528.91	40311.80
84+50.000	241.11	524.21	524.21	86.33	262.52	206364.92	206364.92	165791.43	40573.49
85+00.000	37.13	199.87	199.87	259.16	299.41	206564.80	206564.80	166090.84	40473.96
85+50.000	1.14	35.44	35.44	562.48	760.78	206600.24	206600.24	166851.62	39748.62
86+00.000	0.54	1.55	1.55	691.31	1160.92	206601.79	206601.79	168012.53	38589.26
86+50.000									

	164.40	152.72	152.72	624.31	1218.17	206754.51	206754.51	169230.70	37523.81
87+00.000	545.88	653.05	653.05	746.09	574.67	207407.56	207407.56	169805.37	37602.19
87+50.000	566.86	1013.45	1013.45	917.77	1132.40	208421.01	208421.01	170937.78	37483.23
88+00.000	1038.51	1486.46	1486.46	1712.23	2435.18	209907.46	209907.46	173372.95	36534.51
88+50.000	1430.16	2285.80	2285.80	1534.22	3005.97	212193.27	212193.27	176378.93	35814.34
89+00.000	771.10	2038.20	2038.20	1332.76	2654.62	214231.47	214231.47	179033.54	35197.92
89+50.000	47.24	757.72	757.72	1152.61	2301.27	214989.19	214989.19	181334.82	33654.38
90+00.000	915.71	826.12	826.12	783.24	1313.09	215815.31	215815.31	182647.91	33167.40
90+50.000	829.99	1424.55	1424.55	1523.05	1040.02	217239.86	217239.86	183687.93	33551.93
91+00.000	1150.19	1652.85	1652.85	1677.03	1354.41	218892.70	218892.70	185042.34	33850.37
91+50.000	1220.57	2071.77	2071.77	1672.87	1434.17	220964.47	220964.47	186476.51	34487.96
92+00.000	1099.53	2141.75	2141.75	1721.50	2964.35	223106.22	223106.22	189440.86	33665.36
92+50.000	925.88	1875.38	1875.38	1610.69	3085.36	224981.59	224981.59	192526.22	32455.37
93+00.000	941.11	1728.70	1728.70	1412.59	2799.33	226710.29	226710.29	195325.55	31384.74
93+50.000	1039.07	1926.01	1926.01	1125.85	3015.62	228636.30	228636.30	198341.17	30295.13
94+00.000	923.59	1931.07	1931.07	629.26	2098.02	230567.38	230567.38	200439.19	30128.19
94+50.000	346.72	1276.56	1276.56	32.29	761.06	231843.94	231843.94	201200.24	30643.70
95+00.000	0.00	321.04	321.04	0.00	29.90	232164.98	232164.98	201230.14	30934.84

Volume Report

Project: T:\Project Arrow\DWG\Production Drawings\Highway\09056-0039-GARDEN GROUND HIGHWALLS\PHASE-1\DWg\09056-0039-18-BASELINE-C-SECTIONS.dwg

Alignment: SITE-1-HIGHWALL-C

Sample Line Group: SL Collection - 5

Start Sta: 0+00.000

End Sta: 24+50.000

<u>Station</u>	<u>Cut Area</u> (Sq.ft.)	<u>Cut Volume</u> (Cu.yd.)	<u>Reusable Volume</u> (Cu.yd.)	<u>Fill Area</u> (Sq.ft.)	<u>Fill Volume</u> (Cu.yd.)	<u>Cum. Cut Vol.</u> (Cu.yd.)	<u>Cum. Reusable Vol.</u> (Cu.yd.)	<u>Cum. Fill Vol.</u> (Cu.yd.)	<u>Cum. Net Vol.</u> (Cu.yd.)
0+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1+50.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2+50.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3+50.000	3.89	3.60	3.60	108.54	100.50	3.60	3.60	100.50	-96.90
4+00.000	269.10	212.38	212.38	43.09	127.22	215.97	215.97	227.72	-11.74
4+50.000	210.84	194.64	194.64	82.01	66.19	410.62	410.62	293.91	116.71
5+00.000	123.39	132.78	132.78	118.42	101.58	543.40	543.40	395.48	147.92
5+50.000	47.32	69.56	69.56	195.73	159.00	612.96	612.96	554.49	58.47
6+00.000	181.27	88.08	88.08	216.46	203.65	701.04	701.04	758.14	-57.10
6+50.000	187.17	136.72	136.72	162.87	179.86	837.76	837.76	938.00	-100.24
7+00.000	62.29	192.11	192.11	354.57	414.76	1029.87	1029.87	1352.76	-322.89
7+50.000	122.79	171.37	171.37	203.28	516.53	1201.24	1201.24	1869.29	-668.05
8+00.000	196.33	295.48	295.48	148.30	325.54	1496.72	1496.72	2194.83	-698.11
8+50.000	109.82	283.47	283.47	188.15	311.53	1780.19	1780.19	2506.36	-726.17
9+00.000	34.71	133.82	133.82	36.60	208.10	1914.01	1914.01	2714.47	-800.46
9+50.000	258.70	271.67	271.67	204.61	223.34	2185.68	2185.68	2937.81	-752.13
10+00.000	77.83	253.78	253.78	121.28	259.09	2439.45	2439.45	3196.90	-757.45
10+50.000	117.46	93.77	93.77	150.78	154.40	2533.23	2533.23	3351.31	-818.08
11+00.000	99.85	105.36	105.36	161.08	181.93	2638.59	2638.59	3533.24	-894.65
11+50.000	204.63	147.12	147.12	166.46	191.10	2785.71	2785.71	3724.34	-938.63
12+00.000	112.44	153.36	153.36	236.24	235.27	2939.07	2939.07	3959.61	-1020.55

12+50.000	78.32	156.51	156.51	15.58	212.42	3095.58	3095.58	4172.04	-	1076.46
13+00.000	133.40	196.04	196.04	0.55	14.93	3291.62	3291.62	4186.97	-895.35	
13+50.000	137.47	250.81	250.81	12.55	12.13	3542.43	3542.43	4199.10	-656.67	
14+00.000	101.13	220.92	220.92	41.48	50.03	3763.35	3763.35	4249.13	-485.78	
14+50.000	106.67	113.92	113.92	73.97	72.35	3877.27	3877.27	4321.48	-444.21	
15+00.000	74.49	167.74	167.74	51.28	115.97	4045.01	4045.01	4437.45	-392.44	
15+50.000	108.20	169.16	169.16	63.43	106.22	4214.18	4214.18	4543.67	-329.50	
16+00.000	108.37	200.53	200.53	29.28	85.84	4414.70	4414.70	4629.52	-214.81	
16+50.000	43.02	140.17	140.17	106.07	125.32	4554.88	4554.88	4754.84	-199.96	
17+00.000	0.00	39.83	39.83	372.85	443.45	4594.71	4594.71	5198.29	-603.58	
17+50.000	0.00	0.00	0.00	0.00	345.23	4594.71	4594.71	5543.52	-948.81	
18+00.000	8.29	7.67	7.67	0.00	0.00	4602.38	4602.38	5543.52	-941.14	
18+50.000	3.12	4.87	4.87	1.35	0.64	4607.25	4607.25	5544.16	-936.91	
19+00.000	95.22	85.04	85.04	29.98	27.40	4692.29	4692.29	5571.57	-879.28	
19+50.000	66.61	149.84	149.84	55.50	79.15	4842.13	4842.13	5650.72	-808.58	
20+00.000	61.03	118.18	118.18	5.77	56.74	4960.31	4960.31	5707.45	-747.14	
20+50.000	70.11	111.03	111.03	26.70	27.10	5071.35	5071.35	5734.56	-663.21	
21+00.000	58.15	75.22	75.22	42.33	36.19	5146.56	5146.56	5770.75	-624.19	
21+50.000	76.72	77.66	77.66	10.99	27.89	5224.22	5224.22	5798.64	-574.42	
22+00.000	118.12	110.27	110.27	0.31	5.80	5334.49	5334.49	5804.44	-469.95	
22+50.000	122.05	139.23	139.23	6.75	3.64	5473.72	5473.72	5808.09	-334.37	
23+00.000	0.20	75.17	75.17	49.55	32.62	5548.89	5548.89	5840.71	-291.82	
23+50.000	0.00	0.18	0.18	0.00	45.88	5549.07	5549.07	5886.59	-337.52	
24+00.000	0.00	0.00	0.00	0.00	0.00	5549.07	5549.07	5886.59	-337.52	
24+50.000	0.00	0.00	0.00	0.00	0.00	5549.07	5549.07	5886.59	-337.52	

Volume Report

**Project: T:\Project Arrow\DWG\Production
Drawings\Highway\09056-0039-GARDEN GROUND
HIGHWALLS\PHASE-1\Dwg\09056-0039-13-BASELINE-D-
SECTIONS.dwg**

Alignment: SITE-2-HIGHWALL-D
Sample Line Group: SL Collection - 6
Start Sta: 9+50.000
End Sta: 29+00.000

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
9+50.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+00.000	103.34	95.68	95.68	57.54	53.28	95.68	95.68	53.28	42.41
10+50.000	655.69	702.80	702.80	308.97	339.36	798.48	798.48	392.64	405.85
11+00.000	1333.32	1389.74	1389.74	358.87	124.29	2188.22	2188.22	516.93	1671.29
11+50.000	1317.04	1439.04	1439.04	0.00	-261.60	3627.26	3627.26	255.33	3371.93
12+00.000	1503.34	2137.55	2137.55	0.00	0.00	5764.82	5764.82	255.33	5509.49
12+50.000	1078.56	3037.30	3037.30	731.97	1339.84	8802.12	8802.12	1595.17	7206.95
13+00.000	1028.71	1746.78	1746.78	897.97	795.64	10548.89	10548.89	2390.81	8158.09
13+50.000	960.57	1620.44	1620.44	1032.39	839.50	12169.34	12169.34	3230.31	8939.03
14+00.000	1139.93	2264.75	2264.75	1418.90	4220.01	14434.09	14434.09	7450.32	6983.77
14+50.000	1179.34	2147.48	2147.48	1197.42	2422.52	16581.57	16581.57	9872.84	6708.73
15+00.000	1030.58	1794.05	1794.05	1024.96	890.64	18375.62	18375.62	10763.48	7612.14
15+50.000	993.90	1451.64	1451.64	911.16	219.29	19827.26	19827.26	10982.77	8844.49
16+00.000	1433.59	2911.99	2911.99	970.68	3585.80	22739.25	22739.25	14568.57	8170.68
16+50.000	1691.23	3647.31	3647.31	1094.20	3770.94	26386.57	26386.57	18339.52	8047.05
17+00.000	1503.59	2167.14	2167.14	440.67	-2.21	28553.71	28553.71	18337.31	10216.40
17+50.000	1162.61	2468.71	2468.71	1881.25	2149.93	31022.42	31022.42	20487.23	10535.18
18+00.000	1009.22	2010.95	2010.95	1769.07	3379.92	33033.37	33033.37	23867.16	9166.21
18+50.000	896.53	1659.16	1659.16	1583.55	2158.80	34692.53	34692.53	26025.95	8666.58
19+00.000	784.43	1556.44	1556.44	1165.87	2545.76	36248.97	36248.97	28571.71	7677.26
19+50.000	1035.59	1685.21	1685.21	1036.40	2039.14	37934.18	37934.18	30610.85	7323.33
20+00.000	1224.47	2092.66	2092.66	917.15	1808.85	40026.83	40026.83	32419.70	7607.13
20+50.000	1132.23	1890.89	1890.89	957.67	783.11	41917.73	41917.73	33202.81	8714.91
21+00.000	791.48	1781.21	1781.21	1172.07	1971.98	43698.94	43698.94	35174.79	8524.15
21+50.000	831.83	1393.28	1393.28	1499.64	1599.72	45092.22	45092.22	36774.52	8317.70
22+00.000	709.83	1320.76	1320.76	1495.13	1641.40	46412.97	46412.97	38415.92	7997.05

Quantities Report

22+50.000	974.31	1623.45	1623.45	1338.32	3395.58	48036.43	48036.43	41811.50	6224.93
23+00.000	1201.29	2141.27	2141.27	846.57	2906.96	50177.69	50177.69	44718.46	5459.23
23+50.000	1330.46	2344.21	2344.21	1039.76	1746.60	52521.91	52521.91	46465.06	6056.85
24+00.000	1297.53	2433.32	2433.32	925.14	1819.35	54955.23	54955.23	48284.41	6670.82
24+50.000	1124.46	2122.28	2122.28	1119.10	1324.63	57077.52	57077.52	49609.05	7468.47
25+00.000	905.26	1797.80	1797.80	1138.11	1523.98	58875.32	58875.32	51133.02	7742.29
25+50.000	1013.63	1613.61	1613.61	1054.56	817.14	60488.92	60488.92	51950.16	8538.76
26+00.000	906.34	1647.04	1647.04	1127.36	1120.20	62135.96	62135.96	53070.36	9065.60
26+50.000	542.79	1341.78	1341.78	1161.22	2119.05	63477.75	63477.75	55189.41	8288.34
27+00.000	1024.07	1514.47	1514.47	834.98	2131.39	64992.22	64992.22	57320.80	7671.42
27+50.000	1971.31	3672.17	3672.17	1191.93	3813.99	68664.39	68664.39	61134.79	7529.60
28+00.000	1708.20	3648.84	3648.84	600.34	2081.08	72313.23	72313.23	63215.87	9097.37
28+50.000	507.88	2051.92	2051.92	298.94	832.67	74365.15	74365.15	64048.54	10316.61
29+00.000	0.00	470.26	470.26	0.00	276.80	74835.41	74835.41	64325.34	10510.08

Volume Report

Project: T:\Project Arrow\DWG\Production
Drawings\Highway\09056-0039-GARDEN GROUND
HIGHWALLS\PHASE-1\Dwg\09056-0039-14-BASELINE-E-
SECTIONS.dwg

Alignment: SITE-2-HIGHWALL-E
 Sample Line Group: SEC HW E
 Start Sta: 8+50.000
 End Sta: 17+50.000

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
8+50.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+00.000	23.20	21.48	21.48	122.77	113.68	21.48	21.48	113.68	-92.20
9+50.000	509.25	493.01	493.01	140.76	244.01	514.49	514.49	357.69	156.80
10+00.000	492.36	927.42	927.42	57.28	183.37	1441.91	1441.91	541.07	900.85
10+50.000	215.10	655.06	655.06	328.53	357.24	2096.97	2096.97	898.31	1198.66
11+00.000	247.68	428.50	428.50	71.70	370.59	2525.47	2525.47	1268.90	1256.57
11+50.000	349.59	449.31	449.31	48.92	61.88	2974.77	2974.77	1330.78	1643.99
12+00.000	483.33	535.98	535.98	30.74	27.17	3510.75	3510.75	1357.96	2152.80
12+50.000	511.87	1025.96	1025.96	593.32	846.62	4536.71	4536.71	2204.58	2332.13
13+00.000	391.51	871.13	871.13	935.01	1705.56	5407.84	5407.84	3910.14	1497.70
13+50.000	342.88	679.99	679.99	1167.29	1946.57	6087.83	6087.83	5856.70	231.13
14+00.000	397.49	606.80	606.80	1138.24	1027.07	6694.63	6694.63	6883.78	-189.15
14+50.000	562.97	785.12	785.12	647.90	738.47	7479.75	7479.75	7622.25	-142.50
15+00.000	731.66	1119.77	1119.77	501.22	728.13	8599.52	8599.52	8350.37	249.14
15+50.000	473.49	944.97	944.97	499.73	268.95	9544.49	9544.49	8619.32	925.17
16+00.000	639.33	1546.94	1546.94	200.10	1643.73	11091.43	11091.43	10263.05	828.39
16+50.000	584.69	1477.49	1477.49	43.84	393.40	12568.93	12568.93	10656.45	1912.48
17+00.000	149.14	679.47	679.47	0.00	40.59	13248.40	13248.40	10697.03	2551.36
17+50.000	0.00	138.09	138.09	0.00	0.00	13386.49	13386.49	10697.03	2689.46

Volume Report

Project: T:\Project Arrow\DWG\Production Drawings\Highway\09056-0039-
**GARDEN GROUND HIGHWALLS\PHASE-1\Dwg\09056-0039-15-BASELINE-F-G-
H-SECTIONS.dwg**

Alignment: SITE-3-HIGHWALL-F-G-H

Sample Line Group: SL Collection - 5

Start Sta: 0+00.000

End Sta: 101+00.000

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
0+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.000	356.17	463.23	463.23	0.00	0.00	463.23	463.23	0.00	463.23
1+50.000	675.46	1331.20	1331.20	94.62	166.79	1794.43	1794.43	166.79	1627.65
2+00.000	467.18	1281.49	1281.49	183.23	399.70	3075.92	3075.92	566.49	2509.43
2+50.000	440.54	840.49	840.49	44.37	210.74	3916.41	3916.41	777.23	3139.18
3+00.000	435.15	810.83	810.83	239.60	262.93	4727.24	4727.24	1040.16	3687.08
3+50.000	512.37	842.29	842.29	445.89	492.53	5569.53	5569.53	1532.69	4036.84
4+00.000	759.07	1177.26	1177.26	599.15	967.63	6746.80	6746.80	2500.32	4246.48
4+50.000	556.17	1217.82	1217.82	957.45	1441.30	7964.62	7964.62	3941.62	4023.00
5+00.000	518.42	977.03	977.03	1018.38	1670.69	8941.65	8941.65	5612.31	3329.34
5+50.000	423.44	696.20	696.20	585.75	110.34	9637.85	9637.85	5722.65	3915.20
6+00.000	391.18	682.56	682.56	827.45	765.15	10320.42	10320.42	6487.80	3832.62
6+50.000	387.38	632.21	632.21	756.70	621.72	10952.63	10952.63	7109.51	3843.11
7+00.000	124.51	415.60	415.60	637.52	475.19	11368.23	11368.23	7584.70	3783.53
7+50.000	38.23	146.38	146.38	315.65	787.63	11514.62	11514.62	8372.33	3142.29
8+00.000	178.54	176.39	176.39	123.27	345.29	11691.00	11691.00	8717.62	2973.38
8+50.000	159.93	331.30	331.30	58.12	171.77	12022.30	12022.30	8889.39	3132.91
9+00.000	99.08	255.32	255.32	69.52	116.37	12277.62	12277.62	9005.76	3271.86
9+50.000	236.46	310.69	310.69	0.00	64.38	12588.30	12588.30	9070.13	3518.17
10+00.000	625.92	800.97	800.97	0.00	0.00	13389.27	13389.27	9070.13	4319.14
10+50.000	664.68	1400.06	1400.06	0.85	0.58	14789.33	14789.33	9070.72	5718.61
11+00.000	556.22	1259.87	1259.87	0.09	0.81	16049.20	16049.20	9071.52	6977.68
11+50.000	395.18	880.93	880.93	0.00	0.08	16930.13	16930.13	9071.61	7858.52
12+00.000	441.30	774.52	774.52	0.00	0.00	17704.65	17704.65	9071.61	8633.04
12+50.000	425.54	819.73	819.73	0.00	0.00	18524.38	18524.38	9071.62	9452.76
13+00.000	430.57	802.10	802.10	0.00	0.00	19326.48	19326.48	9071.62	10254.86
13+50.000	373.38	744.39	744.39	0.00	0.00	20070.87	20070.87	9071.62	10999.25
14+00.000	393.47	710.04	710.04	0.00	0.00	20780.91	20780.91	9071.62	11709.30
14+50.000	572.15	894.09	894.09	0.00	0.00	21675.01	21675.01	9071.62	12603.39
15+00.000	473.70	968.38	968.38	0.00	0.00	22643.39	22643.39	9071.62	13571.77

15+50.000	866.74	1304.72	1304.72	0.00	0.00	23948.10	23948.10	9071.62	14876.49
16+00.000	888.09	1712.53	1712.53	0.01	0.02	25660.64	25660.64	9071.63	16589.00
16+50.000	1067.31	1810.56	1810.56	37.91	35.11	27471.19	27471.19	9106.74	18364.45
17+00.000	1208.42	2107.15	2107.15	114.91	141.50	29578.35	29578.35	9248.24	20330.11
17+50.000	1105.06	2142.11	2142.11	401.45	478.11	31720.46	31720.46	9726.35	21994.11
18+00.000	939.23	1875.53	1875.53	773.12	1132.07	33595.99	33595.99	10858.41	22737.58
18+50.000	988.50	1742.88	1742.88	302.94	1249.68	35338.86	35338.86	12108.10	23230.77
19+00.000	225.52	1124.09	1124.09	814.28	1034.47	36462.96	36462.96	13142.56	23320.40
19+50.000	52.25	257.20	257.20	1069.10	1743.87	36720.16	36720.16	14886.43	21833.72
20+00.000	395.14	413.68	413.68	860.29	1440.75	37133.83	37133.83	16327.19	20806.65
20+50.000	627.19	904.32	904.32	357.00	666.63	38038.15	38038.15	16993.82	21044.33
21+00.000	469.15	1015.13	1015.13	153.96	473.11	39053.28	39053.28	17466.93	21586.36
21+50.000	559.00	1035.29	1035.29	0.09	213.07	40088.58	40088.58	17680.00	22408.58
22+00.000	1584.24	2483.18	2483.18	0.00	0.11	42571.76	42571.76	17680.11	24891.64
22+50.000	2723.18	5564.39	5564.39	1.23	2.71	48136.14	48136.14	17682.83	30453.32
23+00.000	839.88	4328.32	4328.32	1956.95	3252.40	52464.47	52464.47	20935.23	31529.24
23+50.000	474.51	1017.32	1017.32	2322.48	6687.25	53481.79	53481.79	27622.48	25859.31
24+00.000	645.31	932.80	932.80	3032.26	6355.64	54414.59	54414.59	33978.12	20436.47
24+50.000	1221.69	1739.88	1739.88	2500.31	4842.25	56154.46	56154.46	38820.37	17334.09
25+00.000	1541.76	2402.03	2402.03	2336.54	940.97	58556.50	58556.50	39761.34	18795.15
25+50.000	1818.66	3078.48	3078.48	2073.40	3747.45	61634.97	61634.97	43508.79	18126.19
26+00.000	1730.36	3286.13	3286.13	1883.05	3663.38	64921.10	64921.10	47172.16	17748.94
26+50.000	1775.03	3025.77	3025.77	1942.37	867.38	67946.87	67946.87	48039.55	19907.32
27+00.000	502.98	2086.38	2086.38	1855.26	2083.67	70033.25	70033.25	50123.21	19910.04
27+50.000	1232.13	1649.55	1649.55	2320.63	1976.40	71682.80	71682.80	52099.62	19583.19
28+00.000	1675.35	2680.70	2680.70	2304.48	1715.43	74363.50	74363.50	53815.05	20548.45
28+50.000	1671.71	3051.14	3051.14	1963.87	3057.82	77414.64	77414.64	56872.87	20541.77
29+00.000	1841.46	3205.04	3205.04	1923.22	3135.20	80619.68	80619.68	60008.06	20611.62
29+50.000	2241.71	3780.71	3780.71	1638.47	3297.86	84400.39	84400.39	63305.92	21094.46
30+00.000	1953.69	3884.63	3884.63	1262.53	2686.12	88285.02	88285.02	65992.04	22292.98
30+50.000	1779.67	3456.81	3456.81	1443.61	2505.69	91741.83	91741.83	68497.73	23244.10
31+00.000	1642.64	3168.80	3168.80	1781.62	2986.33	94910.63	94910.63	71484.06	23426.58
31+50.000	1499.71	2707.34	2707.34	1679.19	1575.18	97617.97	97617.97	73059.24	24558.74
32+00.000	1800.38	3013.35	3013.35	1229.81	2256.62	100631.32	100631.32	75315.86	25315.46
32+50.000	1442.50	3076.78	3076.78	1388.23	781.36	103708.11	103708.11	76097.22	27610.89
33+00.000	1570.43	2789.75	2789.75	1390.20	2572.61	106497.86	106497.86	78669.83	27828.03
33+50.000	1317.96	2674.44	2674.44	1064.58	2272.94	109172.29	109172.29	80942.77	28229.52
34+00.000	1408.21	2602.02	2602.02	916.95	2386.17	111774.31	111774.31	83328.94	28445.37
34+50.000	784.09	2107.02	2107.02	1188.53	2824.36	113881.33	113881.33	86153.30	27728.03
35+00.000	1275.48	1907.01	1907.01	1111.84	2129.97	115788.34	115788.34	88283.27	27505.07
35+50.000	1838.39	2883.21	2883.21	1620.72	2530.14	118671.55	118671.55	90813.42	27858.13
36+00.000	2078.89	3486.03	3486.03	1426.69	1984.99	122157.58	122157.58	92798.40	29359.17
36+50.000									

		3919.19	3919.19	1585.38	2788.96	126076.76	126076.76	95587.36	30489.40
37+00.000	2408.76	4224.62	4224.62	1804.99	3139.24	130301.38	130301.38	98726.60	31574.78
37+50.000	2058.94	4136.76	4136.76	1542.37	3099.40	134438.14	134438.14	101826.01	32612.13
38+00.000	1531.49	3299.10	3299.10	1203.36	2119.38	137737.23	137737.23	103945.38	33791.85
38+50.000	1437.37	2701.23	2701.23	1581.49	1552.26	140438.47	140438.47	105497.65	34940.82
39+00.000	1002.61	2259.23	2259.23	1428.55	2787.07	142697.70	142697.70	108284.72	34412.98
39+50.000	1059.83	1909.66	1909.66	1137.75	2376.20	144607.36	144607.36	110660.93	33946.44
40+00.000	1101.06	2000.82	2000.82	677.81	1681.08	146608.18	146608.18	112342.00	34266.18
40+50.000	1259.66	2357.42	2357.42	879.70	2059.73	148965.61	148965.61	114401.74	34563.87
41+00.000	1554.22	3209.89	3209.89	1161.53	3535.13	152175.49	152175.49	117936.87	34238.63
41+50.000	2095.99	4512.12	4512.12	510.66	3038.22	156687.61	156687.61	120975.09	35712.53
42+00.000	1573.73	4440.92	4440.92	571.88	1953.76	161128.54	161128.54	122928.85	38199.69
42+50.000	667.55	2314.17	2314.17	1089.08	2552.58	163442.71	163442.71	125481.43	37961.28
43+00.000	1098.66	1628.88	1628.88	1690.70	3226.19	165071.59	165071.59	128707.62	36363.97
43+50.000	1018.09	1959.96	1959.96	1215.52	2690.95	167031.55	167031.55	131398.57	35632.98
44+00.000	1133.90	1992.59	1992.59	1407.30	2428.54	169024.14	169024.14	133827.10	35197.04
44+50.000	1253.76	2210.80	2210.80	1479.10	2672.59	171234.94	171234.94	136499.69	34735.24
45+00.000	1238.61	2307.75	2307.75	2024.32	3243.91	173542.69	173542.69	139743.60	33799.09
45+50.000	1527.75	2022.26	2022.26	2095.63	1192.66	175564.95	175564.95	140936.26	34628.69
46+00.000	1594.82	2459.69	2459.69	2529.58	2368.12	178024.64	178024.64	143304.39	34720.26
46+50.000	1732.12	3080.50	3080.50	1799.90	4008.79	181105.14	181105.14	147313.17	33791.97
47+00.000	1903.42	2349.40	2349.40	2313.96	506.01	183454.54	183454.54	147819.18	35635.36
47+50.000	1812.53	2414.30	2414.30	1678.08	484.99	185868.85	185868.85	148304.17	37564.68
48+00.000	1821.14	3364.51	3364.51	2332.49	3713.49	189233.35	189233.35	152017.66	37215.69
48+50.000	894.27	2514.27	2514.27	2161.81	4161.39	191747.62	191747.62	156179.05	35568.57
49+00.000	380.25	992.26	992.26	2228.17	1360.12	192739.88	192739.88	157539.17	35200.71
49+50.000	789.87	1083.44	1083.44	934.84	2928.71	193823.32	193823.32	160467.88	33355.44
50+00.000	839.10	1508.30	1508.30	1431.68	2191.22	195331.62	195331.62	162659.10	32672.52
50+50.000	1177.48	1956.10	1956.10	1975.68	3617.49	197287.72	197287.72	166276.59	31011.13
51+00.000	1589.54	2562.05	2562.05	2145.00	3815.44	199849.77	199849.77	170092.03	29757.74
51+50.000	1712.79	2766.60	2766.60	2220.19	2091.76	202616.38	202616.38	172183.79	30432.58
52+00.000	1494.89	2877.61	2877.61	2310.18	3252.68	205493.99	205493.99	175436.47	30057.52
52+50.000	2192.46	3612.16	3612.16	1511.46	4707.12	209106.15	209106.15	180143.59	28962.56
53+00.000	2251.99	4115.23	4115.23	1706.10	2979.23	213221.38	213221.38	183122.82	30098.57
53+50.000	1886.45	4274.67	4274.67	1681.84	4734.12	217496.05	217496.05	187856.94	29639.11
54+00.000	1513.38	3147.99	3147.99	1218.33	2685.34	220644.04	220644.04	190542.28	30101.76
54+50.000	1157.76	2516.78	2516.78	739.28	1957.48	223160.83	223160.83	192499.77	30661.06
55+00.000	1579.91	3572.48	3572.48	388.26	3127.22	226733.30	226733.30	195626.98	31106.32
55+50.000	1070.29	2655.15	2655.15	131.88	659.69	229388.46	229388.46	196286.68	33101.78
56+00.000	1503.21	3901.93	3901.93	231.32	1057.96	233290.39	233290.39	197344.64	35945.75
56+50.000	969.66	3312.33	3312.33	632.76	1828.01	236602.72	236602.72	199172.64	37430.08
57+00.000	850.55	1544.07	1544.07	416.25	723.15	238146.80	238146.80	199895.79	38251.00
57+50.000									

Quantities Report

		1377.48	1377.48	915.49	1233.09	239524.28	239524.28	201128.89	38395.39
58+00.000	767.78	966.11	966.11	1221.04	698.55	240490.39	240490.39	201827.44	38662.95
58+50.000	724.34	951.14	951.14	1294.40	528.75	241441.53	241441.53	202356.19	39085.34
59+00.000	807.34	1418.23	1418.23	1448.56	2539.77	242859.76	242859.76	204895.96	37963.80
59+50.000	880.11	1251.54	1251.54	1209.30	1196.95	244111.30	244111.30	206092.90	38018.39
60+00.000	882.04	1070.91	1070.91	1311.22	200.51	245182.21	245182.21	206293.41	38888.80
60+50.000	439.14	975.51	975.51	1324.23	800.63	246157.72	246157.72	207094.05	39063.67
61+00.000	806.88	913.38	913.38	1655.77	310.58	247071.10	247071.10	207404.63	39666.47
61+50.000	1189.13	1793.53	1793.53	1222.96	2367.86	248864.63	248864.63	209772.49	39092.14
62+00.000	775.87	1819.44	1819.44	1032.50	2088.40	250684.07	250684.07	211860.88	38823.18
62+50.000	1176.39	2084.10	2084.10	653.72	2254.60	252768.16	252768.16	214115.49	38652.67
63+00.000	1176.00	2846.15	2846.15	1041.03	2931.34	255614.32	255614.32	217046.83	38567.49
63+50.000	1156.64	2247.06	2247.06	1277.73	2386.93	257861.37	257861.37	219433.76	38427.62
64+00.000	804.93	1552.62	1552.62	1055.58	1337.37	259414.00	259414.00	220771.13	38642.87
64+50.000	641.34	1090.82	1090.82	1198.57	1017.75	260504.82	260504.82	221788.88	38715.94
65+00.000	798.53	1333.21	1333.21	1267.37	2283.28	261838.03	261838.03	224072.16	37765.87
65+50.000	640.80	1306.19	1306.19	881.61	1867.95	263144.22	263144.22	225940.11	37204.11
66+00.000	446.26	723.58	723.58	894.09	389.34	263867.81	263867.81	226329.45	37538.36
66+50.000	464.01	768.27	768.27	847.51	1232.79	264636.08	264636.08	227562.24	37073.84
67+00.000	379.07	661.57	661.57	631.53	791.16	265297.65	265297.65	228353.40	36944.25
67+50.000	943.34	1151.48	1151.48	758.15	1090.57	266449.13	266449.13	229443.97	37005.16
68+00.000	373.16	1620.70	1620.70	258.04	1697.03	268069.83	268069.83	231141.00	36928.83
68+50.000	943.03	1681.99	1681.99	737.19	1743.94	269751.82	269751.82	232884.94	36866.88
69+00.000	106.97	1282.26	1282.26	1167.92	2968.99	271034.07	271034.07	235853.93	35180.14
69+50.000	1143.09	1080.88	1080.88	1443.63	1979.77	272114.96	272114.96	237833.70	34281.25
70+00.000	1149.44	1857.72	1857.72	1655.72	1692.89	273972.68	273972.68	239526.60	34446.08
70+50.000	1002.68	1992.71	1992.71	2224.95	3593.21	275965.38	275965.38	243119.81	32845.57
71+00.000	499.68	1211.75	1211.75	2211.09	1696.25	277177.14	277177.14	244816.06	32361.08
71+50.000	502.05	927.52	927.52	1652.07	3577.00	278104.66	278104.66	248393.06	29711.60
72+00.000	759.77	1013.26	1013.26	1009.70	1057.61	279117.92	279117.92	249450.67	29667.25
72+50.000	642.15	963.28	963.28	1091.57	18.07	280081.19	280081.19	249468.74	30612.46
73+00.000	734.75	1274.91	1274.91	1001.67	1938.19	281356.10	281356.10	251406.92	29949.18
73+50.000	1121.33	1718.59	1718.59	808.26	1675.86	283074.70	283074.70	253082.78	29991.91
74+00.000	890.70	1972.63	1972.63	1132.04	2131.35	285047.33	285047.33	255214.14	29833.19
74+50.000	976.71	1705.52	1705.52	1072.33	1947.54	286752.84	286752.84	257161.67	29591.17
75+00.000	921.20	1336.89	1336.89	1156.92	459.86	288089.73	288089.73	257621.54	30468.19
75+50.000	569.31	1380.10	1380.10	1221.70	2202.43	289469.83	289469.83	259823.97	29645.87
76+00.000	568.70	1157.92	1157.92	585.89	2631.55	290627.75	290627.75	262455.52	28172.23
76+50.000	722.63	1195.67	1195.67	626.05	1122.16	291823.42	291823.42	263577.69	28245.74
77+00.000	879.53	1224.85	1224.85	526.94	424.68	293048.27	293048.27	264002.36	29045.91
77+50.000	822.11	1513.51	1513.51	521.59	829.53	294561.79	294561.79	264831.89	29729.90
78+00.000	362.64	1096.99	1096.99	276.85	739.30	295658.78	295658.78	265571.19	30087.59
78+50.000									

		871.41	871.41	220.38	460.40	296530.19	296530.19	266031.59	30498.60
79+00.000	494.59	1002.64	1002.64	84.81	294.94	297532.83	297532.83	266326.53	31206.30
79+50.000	359.02	813.71	813.71	239.18	369.90	298346.54	298346.54	266696.43	31650.11
80+00.000	622.37	911.79	911.79	620.87	971.60	299258.33	299258.33	267668.03	31590.30
80+50.000	523.99	1072.34	1072.34	574.00	1296.04	300330.68	300330.68	268964.07	31366.61
81+00.000	445.52	1021.22	1021.22	201.20	1131.63	301351.90	301351.90	270095.69	31256.20
81+50.000	930.47	1779.47	1779.47	256.09	792.36	303131.37	303131.37	270888.06	32243.31
82+00.000	609.76	2069.47	2069.47	0.00	475.67	305200.84	305200.84	271363.73	33837.11
82+50.000	464.19	1244.00	1244.00	506.93	696.07	306444.84	306444.84	272059.80	34385.04
83+00.000	619.21	1003.15	1003.15	884.90	1288.73	307447.99	307447.99	273348.53	34099.46
83+50.000	687.62	1210.02	1210.02	1041.98	1784.15	308658.02	308658.02	275132.68	33525.34
84+00.000	181.16	933.89	933.89	512.28	2000.59	309591.91	309591.91	277133.27	32458.64
84+50.000	1119.21	1702.20	1702.20	508.97	1726.89	311294.11	311294.11	278860.16	32433.95
85+00.000	951.91	2577.62	2577.62	286.66	1467.62	313871.73	313871.73	280327.78	33543.95
85+50.000	473.38	1488.96	1488.96	815.24	1550.90	315360.69	315360.69	281878.67	33482.01
86+00.000	134.01	552.70	552.70	338.39	1502.19	315913.39	315913.39	283380.86	32532.53
86+50.000	136.97	250.90	250.90	137.02	440.19	316164.30	316164.30	283821.05	32343.24
87+00.000	114.63	210.51	210.51	202.14	187.50	316374.81	316374.81	284008.55	32366.26
87+50.000	243.66	306.31	306.31	321.32	297.37	316681.12	316681.12	284305.92	32375.20
88+00.000	341.29	541.62	541.62	997.39	1221.03	317222.74	317222.74	285526.95	31695.80
88+50.000	352.61	642.50	642.50	1199.51	2034.17	317865.25	317865.25	287561.12	30304.13
89+00.000	538.09	796.83	796.83	1184.52	1656.95	318662.08	318662.08	289218.07	29444.00
89+50.000	659.85	1048.73	1048.73	981.72	1532.34	319710.81	319710.81	290750.41	28960.40
90+00.000	651.56	1214.27	1214.27	792.26	1642.58	320925.08	320925.08	292392.99	28532.09
90+50.000	796.59	1408.06	1408.06	283.18	1190.03	322333.14	322333.14	293583.02	28750.12
91+00.000	1048.79	2075.37	2075.37	508.37	1251.37	324408.51	324408.51	294834.39	29574.12
91+50.000	954.87	2236.54	2236.54	901.89	2190.05	326645.05	326645.05	297024.43	29620.62
92+00.000	800.71	1703.65	1703.65	1098.85	2287.35	328348.70	328348.70	299311.79	29036.91
92+50.000	822.94	1377.95	1377.95	1084.38	664.72	329726.65	329726.65	299976.51	29750.14
93+00.000	525.80	1134.46	1134.46	1214.28	695.20	330861.11	330861.11	300671.71	30189.40
93+50.000	688.09	990.15	990.15	1363.14	800.15	331851.26	331851.26	301471.87	30379.39
94+00.000	929.13	1390.73	1390.73	1490.26	1785.27	333241.99	333241.99	303257.13	29984.86
94+50.000	959.36	1535.65	1535.65	1415.51	1302.51	334777.64	334777.64	304559.64	30218.00
95+00.000	756.14	1588.43	1588.43	1518.85	2717.00	336366.07	336366.07	307276.65	29089.42
95+50.000	776.85	1388.04	1388.04	1095.36	2227.31	337754.11	337754.11	309503.96	28250.15
96+00.000	644.58	1316.14	1316.14	869.93	1819.71	339070.25	339070.25	311323.67	27746.58
96+50.000	74.02	694.17	694.17	868.31	1816.37	339764.42	339764.42	313140.04	26624.38
97+00.000	443.04	535.10	535.10	1161.56	2470.33	340299.52	340299.52	315610.37	24689.15
97+50.000	271.21	661.34	661.34	1251.72	2234.52	340960.86	340960.86	317844.89	23115.97
98+00.000	261.27	373.79	373.79	1409.35	1068.29	341334.66	341334.66	318913.17	22421.48
98+50.000	484.51	642.56	642.56	1249.87	2040.46	341977.22	341977.22	320953.63	21023.59
99+00.000	618.73	753.80	753.80	1087.25	694.00	342731.02	342731.02	321647.63	21083.39
99+50.000									

		1213.27	1213.27	858.85	2959.32	343944.29	343944.29	324606.96	19337.33
100+00.000	151.62	692.44	692.44	0.00	1437.28	344636.72	344636.72	326044.23	18592.49
100+50.000	0.00	167.16	167.16	0.00	0.00	344803.88	344803.88	326044.23	18759.64
101+00.000	0.00	0.00	0.00	0.00	0.00	344803.88	344803.88	326044.23	18759.64

Volume Report

**Project: T:\Project Arrow\DWG\Production
Drawings\Highway\09056-0039-GARDEN GROUND
HIGHWALLS\PHASE-1\Dwg\09056-0039-15-BASELINE-I-
SECTIONS.dwg**

Alignment: SITE-4-HIGHWALL-I3
Sample Line Group: SL Collection - 6
Start Sta: 0+50.000
End Sta: 4+50.000

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
0+50.000	2013.99	0.00	0.00	2401.77	0.00	0.00	0.00	0.00	0.00
1+00.000	3566.84	5167.44	5167.44	1959.48	4038.20	5167.44	5167.44	4038.20	1129.24
1+50.000	3749.32	6774.22	6774.22	1968.04	3636.59	11941.66	11941.66	7674.79	4266.88
2+00.000	4128.60	7294.37	7294.37	734.33	2502.19	19236.04	19236.04	10176.98	9059.06
2+50.000	3559.20	7118.34	7118.34	693.08	1321.68	26354.37	26354.37	11498.65	14855.72
3+00.000	1266.60	4468.34	4468.34	3341.49	3735.71	30822.71	30822.71	15234.36	15588.35
3+50.000	38.54	1208.47	1208.47	2707.73	5601.13	32031.18	32031.18	20835.49	11195.69
4+00.000	20.80	54.95	54.95	222.91	2713.56	32086.13	32086.13	23549.06	8537.07
4+50.000	0.00	19.26	19.26	0.00	206.40	32105.39	32105.39	23755.46	8349.93

Volume Report

**Project: T:\Project Arrow\DWG\Production
Drawings\Highway\09056-0039-GARDEN GROUND
HIGHWALLS\PHASE-1\Dwg\09056-0039-15-BASELINE-I-
SECTIONS.dwg**

Alignment: SITE-4-HIGHWALL-I
Sample Line Group: SL Collection - 5
Start Sta: 99+00.000
End Sta: 203+50.000

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
99+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99+50.000	167.68	155.26	155.26	0.00	0.00	155.26	155.26	0.00	155.26
100+00.000	274.46	409.38	409.38	0.00	0.00	564.64	564.64	0.00	564.64
100+50.000	262.64	497.31	497.31	0.00	0.00	1061.95	1061.95	0.00	1061.95
101+00.000	177.28	407.33	407.33	0.00	0.00	1469.28	1469.28	0.00	1469.28
101+50.000	285.24	428.26	428.26	0.00	0.00	1897.54	1897.54	0.00	1897.54
102+00.000	178.54	429.43	429.43	0.00	0.00	2326.97	2326.97	0.00	2326.97
102+50.000	173.97	326.40	326.40	27.80	25.74	2653.38	2653.38	25.74	2627.64
103+00.000	88.85	243.36	243.36	148.32	163.07	2896.74	2896.74	188.80	2707.93
103+50.000	134.73	207.02	207.02	145.19	271.77	3103.76	3103.76	460.57	2643.19
104+00.000	329.92	390.40	390.40	136.39	181.18	3494.16	3494.16	641.75	2852.41
104+50.000	316.26	598.32	598.32	154.53	269.38	4092.48	4092.48	911.13	3181.35
105+00.000	340.39	608.01	608.01	173.42	303.66	4700.49	4700.49	1214.79	3485.70
105+50.000	334.18	564.00	564.00	141.55	170.31	5264.49	5264.49	1385.10	3879.40
106+00.000	387.85	675.37	675.37	343.23	476.98	5939.86	5939.86	1862.07	4077.79
106+50.000	494.80	851.95	851.95	265.02	746.93	6791.82	6791.82	2609.01	4182.81
107+00.000	607.66	1020.80	1020.80	69.65	309.88	7812.62	7812.62	2918.88	4893.73
107+50.000	505.68	981.37	981.37	71.71	102.64	8793.99	8793.99	3021.52	5772.47
108+00.000	439.87	875.51	875.51	194.88	246.85	9669.50	9669.50	3268.37	6401.13
108+50.000	439.37	814.11	814.11	341.28	496.45	10483.61	10483.61	3764.82	6718.79
109+00.000	468.45	840.57	840.57	541.71	817.58	11324.18	11324.18	4582.40	6741.78
109+50.000	376.68	782.53	782.53	943.82	1375.49	12106.70	12106.70	5957.89	6148.82
110+00.000	558.32	865.75	865.75	789.61	1605.02	12972.45	12972.45	7562.91	5409.54
110+50.000	335.75	827.84	827.84	939.34	1600.87	13800.29	13800.29	9163.78	4636.51
111+00.000	218.54	513.23	513.23	717.07	1533.71	14313.52	14313.52	10697.49	3616.02
111+50.000	179.42	361.83	361.83	367.22	941.60	14675.35	14675.35	11639.10	3036.25

Quantities Report

112+00.000	202.44	347.13	347.13	498.18	751.50	15022.48	15022.48	12390.59	2631.89
112+50.000	564.76	695.16	695.16	856.39	1136.18	15717.64	15717.64	13526.77	2190.86
113+00.000	949.35	1249.66	1249.66	956.94	728.07	16967.30	16967.30	14254.84	2712.46
113+50.000	1325.24	1914.34	1914.34	999.42	700.40	18881.64	18881.64	14955.25	3926.39
114+00.000	1300.01	2210.31	2210.31	1166.34	713.28	21091.95	21091.95	15668.52	5423.43
114+50.000	1334.24	2289.15	2289.15	955.41	1182.60	23381.10	23381.10	16851.12	6529.98
115+00.000	746.67	1926.76	1926.76	453.24	1304.31	25307.86	25307.86	18155.43	7152.43
115+50.000	757.48	1392.72	1392.72	544.53	923.86	26700.58	26700.58	19079.30	7621.29
116+00.000	787.75	1430.76	1430.76	274.55	758.41	28131.34	28131.34	19837.70	8293.64
116+50.000	1123.38	1795.86	1795.86	745.32	1004.01	29927.21	29927.21	20841.71	9085.49
117+00.000	1177.50	2130.44	2130.44	620.64	1264.77	32057.65	32057.65	22106.49	9951.16
117+50.000	1195.00	2196.76	2196.76	314.65	866.00	34254.41	34254.41	22972.49	11281.92
118+00.000	2023.04	2979.67	2979.67	630.39	875.04	37234.07	37234.07	23847.53	13386.55
118+50.000	2528.37	4214.27	4214.27	1007.02	1516.12	41448.34	41448.34	25363.65	16084.69
119+00.000	1835.29	4040.42	4040.42	1189.14	2033.47	45488.76	45488.76	27397.12	18091.64
119+50.000	1963.02	3552.67	3552.67	0.00	3317.02	49041.43	49041.43	30714.14	18327.30
120+00.000	803.66	2310.75	2310.75	407.32	715.66	51352.19	51352.19	31429.80	19922.39
120+50.000	1462.34	1900.72	1900.72	1117.31	3913.21	53252.91	53252.91	35343.00	17909.90
121+00.000	1637.55	2870.26	2870.26	1002.20	1962.51	56123.17	56123.17	37305.52	18817.65
121+50.000	822.09	2277.44	2277.44	1200.38	2039.43	58400.61	58400.61	39344.94	19055.67
122+00.000	715.59	1423.78	1423.78	1233.74	2253.81	59824.39	59824.39	41598.75	18225.64
122+50.000	637.79	1202.51	1202.51	660.31	1373.35	61026.91	61026.91	42972.11	18054.80
123+00.000	725.36	1358.49	1358.49	596.10	1585.57	62385.40	62385.40	44557.67	17827.73
123+50.000	651.56	1286.24	1286.24	1188.81	1723.51	63671.64	63671.64	46281.18	17390.46
124+00.000	617.13	1127.12	1127.12	1621.76	2140.45	64798.76	64798.76	48421.63	16377.13
124+50.000	571.00	1048.57	1048.57	1487.04	2352.52	65847.33	65847.33	50774.15	15073.18
125+00.000	432.60	837.27	837.27	1408.82	1604.06	66684.60	66684.60	52378.22	14306.39
125+50.000	308.45	686.16	686.16	1453.20	2650.02	67370.76	67370.76	55028.23	12342.53
126+00.000	214.90	496.47	496.47	1580.22	3132.97	67867.23	67867.23	58161.20	9706.03
126+50.000	224.03	417.56	417.56	1208.34	2874.18	68284.80	68284.80	61035.38	7249.42
127+00.000	120.00	318.54	318.54	1766.21	2754.22	68603.34	68603.34	63789.60	4813.74
127+50.000	132.97	203.50	203.50	1822.44	2291.11	68806.84	68806.84	66080.71	2726.13
128+00.000	161.40	232.45	232.45	1781.11	2065.88	69039.29	69039.29	68146.59	892.69
128+50.000	201.63	336.14	336.14	1291.85	2845.33	69375.42	69375.42	70991.93	-1616.50
129+00.000	242.42	411.15	411.15	1302.33	2402.02	69786.58	69786.58	73393.95	-3607.37
129+50.000	262.23	467.27	467.27	692.57	1847.12	70253.85	70253.85	75241.07	-4987.22
130+00.000	327.22	545.79	545.79	2096.83	2582.78	70799.64	70799.64	77823.85	-7024.21
130+50.000	589.81	717.73	717.73	1550.36	1069.79	71517.38	71517.38	78893.64	-7376.26
131+00.000	947.28	1227.73	1227.73	1386.27	1395.75	72745.11	72745.11	80289.39	-7544.28
131+50.000	910.10	1719.80	1719.80	1623.42	2786.76	74464.91	74464.91	83076.14	-8611.24

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132+00.000	623.33	1419.85	1419.85	1257.42	2667.44	75884.75	75884.75	85743.59	-9858.83
132+50.000	1003.12	1397.93	1397.93	1027.60	1424.97	77282.68	77282.68	87168.56	-9885.87
133+00.000	796.62	1565.61	1565.61	1225.00	1439.35	78848.29	78848.29	88607.90	-9759.61
133+50.000	726.75	1428.77	1428.77	890.41	2130.44	80277.06	80277.06	90738.34	10461.27
134+00.000	922.79	1544.18	1544.18	1058.44	1942.91	81821.25	81821.25	92681.25	10860.00
134+50.000	645.25	1451.90	1451.90	897.63	1811.18	83273.14	83273.14	94492.42	11219.28
135+00.000	1342.36	1840.39	1840.39	983.71	1741.98	85113.53	85113.53	96234.40	11120.87
135+50.000	1454.52	2674.96	2674.96	1011.17	790.06	87788.49	87788.49	97024.46	-9235.97
136+00.000	1005.25	2360.15	2360.15	202.74	-108.67	90148.64	90148.64	96915.79	-6767.16
136+50.000	709.72	1440.11	1440.11	253.64	33.22	91588.75	91588.75	96949.02	-5360.27
137+00.000	337.34	914.45	914.45	1054.13	841.87	92503.20	92503.20	97790.89	-5287.69
137+50.000	574.15	843.97	843.97	472.12	1413.20	93347.17	93347.17	99204.09	-5856.92
138+00.000	115.22	886.86	886.86	37.26	974.42	94234.03	94234.03	100178.51	-5944.48
138+50.000	43.27	218.48	218.48	70.45	172.58	94452.52	94452.52	100351.09	-5898.57
139+00.000	119.66	173.02	173.02	82.24	187.67	94625.54	94625.54	100538.76	-5913.23
139+50.000	77.54	182.59	182.59	276.17	331.86	94808.12	94808.12	100870.62	-6062.49
140+00.000	163.59	213.77	213.77	208.16	408.12	95021.89	95021.89	101278.74	-6256.85
140+50.000	232.71	354.44	354.44	292.43	416.72	95376.33	95376.33	101695.46	-6319.13
141+00.000	236.86	434.78	434.78	149.82	409.49	95811.11	95811.11	102104.95	-6293.84
141+50.000	247.06	465.25	465.25	242.60	406.75	96276.37	96276.37	102511.70	-6235.33
142+00.000	277.34	485.56	485.56	463.31	653.62	96761.92	96761.92	103165.32	-6403.40
142+50.000	192.73	420.01	420.01	211.07	550.10	97181.93	97181.93	103715.42	-6533.49
143+00.000	174.20	321.09	321.09	38.21	192.76	97503.02	97503.02	103908.18	-6405.15
143+50.000	251.97	380.43	380.43	636.78	483.17	97883.45	97883.45	104391.35	-6507.89
144+00.000	282.01	484.25	484.25	928.96	1104.67	98367.71	98367.71	105496.02	-7128.31
144+50.000	401.69	618.61	618.61	802.28	1222.96	98986.32	98986.32	106718.98	-7732.66
145+00.000	481.79	790.78	790.78	793.40	1019.27	99777.10	99777.10	107738.26	-7961.15
145+50.000	486.33	876.81	876.81	955.22	1299.82	100653.91	100653.91	109038.08	-8384.16
146+00.000	423.34	848.83	848.83	388.09	1295.16	101502.74	101502.74	110333.24	-8830.49
146+50.000	383.14	876.29	876.29	303.36	1011.96	102379.04	102379.04	111345.20	-8966.16
147+00.000	361.60	725.80	725.80	251.54	603.26	103104.84	103104.84	111948.46	-8843.62
147+50.000	383.58	689.98	689.98	214.69	431.69	103794.82	103794.82	112380.15	-8585.33
148+00.000	261.98	576.42	576.42	233.58	333.32	104371.24	104371.24	112713.47	-8342.23
148+50.000	558.11	713.00	713.00	216.44	273.79	105084.23	105084.23	112987.26	-7903.03
149+00.000	822.92	1229.49	1229.49	279.24	289.09	106313.72	106313.72	113276.35	-6962.63
149+50.000	1189.13	1841.96	1841.96	135.06	268.52	108155.68	108155.68	113544.87	-5389.19
150+00.000	1446.66	2366.02	2366.02	144.21	120.55	110521.70	110521.70	113665.43	-3143.72
150+50.000	1316.48	2398.32	2398.32	538.64	277.21	112920.02	112920.02	113942.64	-1022.62

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151+00.000	1141.02	2275.47	2275.47	1189.50	1600.13	115195.49	115195.49	115542.77	-347.28
151+50.000	1036.53	2016.25	2016.25	985.18	2013.59	117211.74	117211.74	117556.37	-344.62
152+00.000	793.17	1763.43	1763.43	683.98	1805.99	118975.17	118975.17	119362.35	-387.18
152+50.000	330.63	1079.16	1079.16	197.89	938.53	120054.33	120054.33	120300.89	-246.56
153+00.000	357.39	616.52	616.52	379.97	471.61	120670.85	120670.85	120772.50	-101.65
153+50.000	341.37	597.50	597.50	513.20	587.78	121268.35	121268.35	121360.28	-91.92
154+00.000	323.38	615.51	615.51	1226.36	1610.70	121883.87	121883.87	122970.98	-1087.11
154+50.000	338.78	613.11	613.11	724.50	1806.35	122496.97	122496.97	124777.33	-2280.35
155+00.000	174.75	475.49	475.49	458.40	1095.28	122972.46	122972.46	125872.61	-2900.15
155+50.000	271.15	648.60	648.60	45.20	1063.57	123621.06	123621.06	126936.18	-3315.12
156+00.000	168.67	662.49	662.49	13.84	150.73	124283.55	124283.55	127086.91	-2803.35
156+50.000	69.65	293.76	293.76	1592.78	3401.17	124577.32	124577.32	130488.07	-5910.75
157+00.000	180.92	233.29	233.29	2150.45	2996.65	124810.61	124810.61	133484.72	-8674.11
157+50.000	325.47	476.47	476.47	2202.45	3532.62	125287.08	125287.08	137017.34	-
158+00.000	99.98	386.63	386.63	2311.26	5367.06	125673.71	125673.71	142384.40	11730.26
158+50.000	358.44	454.24	454.24	1544.00	4668.38	126127.96	126127.96	147052.78	-
159+00.000	502.27	764.01	764.01	1515.65	2444.96	126891.96	126891.96	149497.73	20924.82
159+50.000	700.53	833.83	833.83	1380.02	588.61	127725.80	127725.80	150086.35	-
160+00.000	909.35	1280.04	1280.04	1487.10	1281.18	129005.83	129005.83	151367.53	22605.77
160+50.000	865.69	1725.92	1725.92	2250.83	4344.65	130731.75	130731.75	155712.18	-
161+00.000	723.74	1532.79	1532.79	2939.74	6110.94	132264.54	132264.54	161823.12	24980.43
161+50.000	776.59	1466.03	1466.03	1850.49	5617.10	133730.57	133730.57	167440.22	-
162+00.000	1073.97	1783.37	1783.37	751.63	2864.98	135513.94	135513.94	170305.20	33709.65
162+50.000	1583.90	2420.15	2420.15	887.30	1343.85	137934.10	137934.10	171649.05	-
163+00.000	1541.83	2754.03	2754.03	971.01	775.58	140688.13	140688.13	172424.62	34791.26
163+50.000	1935.72	3057.53	3057.53	744.10	722.17	143745.66	143745.66	173146.80	-
164+00.000	2082.31	3552.38	3552.38	386.78	739.32	147298.04	147298.04	173886.12	29401.14
164+50.000	1601.88	2819.63	2819.63	404.57	123.15	150117.66	150117.66	174009.28	-
165+00.000	1439.40	2277.69	2277.69	372.38	93.72	152395.35	152395.35	174103.00	26588.09
									23891.61
									-
									21707.65
									-

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165+50.000	1640.30	2403.85	2403.85	387.43	99.90	154799.20	154799.20	174202.90	19403.70
166+00.000	1425.96	2653.78	2653.78	195.54	315.25	157452.97	157452.97	174518.14	17065.17
166+50.000	1008.77	2254.38	2254.38	107.48	280.57	159707.35	159707.35	174798.72	15091.36
167+00.000	588.96	1479.38	1479.38	136.53	225.94	161186.73	161186.73	175024.65	13837.92
167+50.000	584.43	1404.80	1404.80	79.90	340.20	162591.53	162591.53	175364.85	12773.32
168+00.000	298.27	1057.22	1057.22	48.45	218.73	163648.76	163648.76	175583.58	11934.82
168+50.000	235.63	607.10	607.10	183.72	348.93	164255.86	164255.86	175932.51	11676.65
169+00.000	432.63	618.76	618.76	126.39	287.13	164874.62	164874.62	176219.64	11345.02
169+50.000	453.81	820.77	820.77	196.18	298.67	165695.40	165695.40	176518.31	10822.92
170+00.000	490.49	769.72	769.72	309.20	324.31	166465.12	166465.12	176842.62	10377.50
170+50.000	527.62	942.70	942.70	204.10	475.28	167407.81	167407.81	177317.90	-9910.08
171+00.000	644.14	966.07	966.07	168.41	249.48	168373.88	168373.88	177567.38	-9193.50
171+50.000	796.59	1216.39	1216.39	108.07	189.23	169590.27	169590.27	177756.61	-8166.34
172+00.000	930.21	1598.90	1598.90	89.66	183.08	171189.16	171189.16	177939.69	-6750.53
172+50.000	1002.87	1700.38	1700.38	274.04	274.21	172889.54	172889.54	178213.89	-5324.35
173+00.000	1088.41	1629.42	1629.42	275.94	168.80	174518.96	174518.96	178382.70	-3863.74
173+50.000	1030.30	1917.33	1917.33	207.21	397.25	176436.29	176436.29	178779.95	-2343.66
174+00.000	899.78	1787.11	1787.11	206.17	382.76	178223.40	178223.40	179162.71	-939.31
174+50.000	861.43	1630.75	1630.75	333.81	499.98	179854.14	179854.14	179662.69	191.45
175+00.000	948.31	1523.39	1523.39	339.73	334.27	181377.53	181377.53	179996.96	1380.58
175+50.000	609.02	1441.97	1441.97	379.38	665.85	182819.51	182819.51	180662.81	2156.70
176+00.000	419.34	876.16	876.16	337.31	394.15	183695.66	183695.66	181056.95	2638.71
176+50.000	804.08	1132.80	1132.80	1151.33	1378.38	184828.46	184828.46	182435.33	2393.13
177+00.000	1082.27	1746.62	1746.62	1295.84	2265.91	186575.08	186575.08	184701.23	1873.85
177+50.000	992.93	1921.49	1921.49	1331.74	2432.95	188496.57	188496.57	187134.19	1362.38
178+00.000	901.38	1651.03	1651.03	1310.99	1794.31	190147.60	190147.60	188928.50	1219.10
178+50.000	742.93	1393.03	1393.03	1422.11	1631.83	191540.63	191540.63	190560.33	980.30
179+00.000	449.81	1104.39	1104.39	1376.80	2591.58	192645.02	192645.02	193151.91	-506.89
179+50.000	424.95	809.96	809.96	1082.89	2277.48	193454.98	193454.98	195429.39	-1974.41
180+00.000	517.34	872.49	872.49	1291.80	2198.79	194327.47	194327.47	197628.18	-3300.70
180+50.000	885.01	1856.70	1856.70	0.00	2466.41	196184.17	196184.17	200094.59	-3910.42
181+00.000	380.56	1847.07	1847.07	171.01	312.40	198031.25	198031.25	200406.99	-2375.75
181+50.000	486.28	1063.97	1063.97	183.01	649.52	199095.22	199095.22	201056.51	-1961.29
182+00.000	834.99	1763.28	1763.28	0.40	277.25	200858.49	200858.49	201333.76	-475.26

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182+50.000	16.34	1642.88	1642.88	1109.73	1502.07	202501.37	202501.37	202835.82	-334.45
183+00.000	107.98	164.53	164.53	19.83	1531.05	202665.90	202665.90	204366.87	-1700.97
183+50.000	152.37	279.27	279.27	55.40	90.77	202945.17	202945.17	204457.64	-1512.48
184+00.000	152.07	281.89	281.89	74.62	120.38	203227.06	203227.06	204578.03	-1350.97
184+50.000	97.95	210.60	210.60	16.36	71.69	203437.65	203437.65	204649.72	-1212.07
185+00.000	107.50	169.99	169.99	2.16	14.52	203607.65	203607.65	204664.24	-1056.59
185+50.000	98.18	190.44	190.44	25.71	25.80	203798.09	203798.09	204690.04	-891.96
186+00.000	116.67	198.93	198.93	0.35	24.13	203997.01	203997.01	204714.17	-717.16
186+50.000	111.90	211.64	211.64	0.00	0.33	204208.66	204208.66	204714.50	-505.85
187+00.000	56.20	158.42	158.42	22.53	21.41	204367.08	204367.08	204735.91	-368.83
187+50.000	159.37	199.60	199.60	59.95	76.37	204566.68	204566.68	204812.28	-245.60
188+00.000	239.82	342.75	342.75	95.57	123.93	204909.43	204909.43	204936.21	-26.78
188+50.000	328.71	394.51	394.51	100.89	83.56	205303.94	205303.94	205019.77	284.17
189+00.000	304.03	480.93	480.93	502.98	258.35	205784.87	205784.87	205278.12	506.75
189+50.000	649.32	794.95	794.95	366.28	434.56	206579.83	206579.83	205712.68	867.15
190+00.000	847.23	1385.69	1385.69	282.77	600.97	207965.52	207965.52	206313.65	1651.87
190+50.000	816.13	1247.95	1247.95	268.92	192.98	209213.47	209213.47	206506.63	2706.84
191+00.000	947.69	1291.70	1291.70	300.31	150.87	210505.17	210505.17	206657.50	3847.67
191+50.000	734.88	1241.78	1241.78	320.93	179.91	211746.95	211746.95	206837.40	4909.55
192+00.000	295.19	953.76	953.76	855.22	1089.04	212700.72	212700.72	207926.44	4774.28
192+50.000	299.86	550.97	550.97	1321.35	2015.35	213251.68	213251.68	209941.79	3309.89
193+00.000	252.41	493.36	493.36	1006.09	1777.38	213745.05	213745.05	211719.17	2025.88
193+50.000	250.09	454.15	454.15	602.60	1367.69	214199.19	214199.19	213086.85	1112.34
194+00.000	445.74	828.66	828.66	361.42	1669.40	215027.86	215027.86	214756.26	271.60
194+50.000	1106.36	1960.38	1960.38	193.30	1045.05	216988.24	216988.24	215801.31	1186.93
195+00.000	965.32	2500.45	2500.45	108.54	608.94	219488.69	219488.69	216410.25	3078.43
195+50.000	752.32	1792.63	1792.63	394.16	739.15	221281.32	221281.32	217149.41	4131.91
196+00.000	614.15	1265.26	1265.26	178.23	529.99	222546.57	222546.57	217679.40	4867.18
196+50.000	276.94	842.85	842.85	377.07	551.78	223389.42	223389.42	218231.18	5158.25
197+00.000	453.49	712.00	712.00	1182.62	1691.41	224101.43	224101.43	219922.58	4178.84
197+50.000	380.69	678.89	678.89	997.14	1025.44	224780.32	224780.32	220948.02	3832.30
198+00.000	642.65	883.81	883.81	1067.41	944.45	225664.13	225664.13	221892.47	3771.65
198+50.000	898.06	1372.00	1372.00	1182.53	1581.87	227036.13	227036.13	223474.34	3561.78
199+00.000	1068.70	1821.08	1821.08	667.64	1713.12	228857.20	228857.20	225187.46	3669.74
199+50.000	1085.33	1994.47	1994.47	871.59	1425.21	230851.68	230851.68	226612.67	4239.01
200+00.000	1071.93	1997.47	1997.47	1144.71	1866.94	232849.14	232849.14	228479.61	4369.53
200+50.000	889.89	1933.98	1933.98	1097.73	760.27	234783.13	234783.13	229239.89	5543.24
201+00.000	697.93	1470.86	1470.86	1068.33	785.41	236253.99	236253.99	230025.29	6228.70
201+50.000	571.92	1126.57	1126.57	1058.05	1162.13	237380.56	237380.56	231187.42	6193.13
202+00.000	626.37	1109.52	1109.52	760.95	1684.26	238490.08	238490.08	232871.68	5618.40

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202+50.000	742.45	1267.42	1267.42	136.02	830.52	239757.50	239757.50	233702.20	6055.30
203+00.000	281.86	948.44	948.44	0.00	125.94	240705.95	240705.95	233828.14	6877.80
203+50.000	0.00	260.99	260.99	0.00	0.00	240966.93	240966.93	233828.14	7138.79