

TOWN OF MORIAH

ADDENDUM NO. 1

March 30, 2017

This Addendum, issued to bid document holders of record, indicates changes to the documents for the *RFQ ENGINEERING FIRM – SEWER SYSTEM* RFP opening April 27, 2017. All clarifications described herein shall be incorporated into the Contractor's Proposal. This Addendum is part of the Contract Documents. Adjustments required by each item shall be understood to apply to all document references affected by the clarifications described.

Please see the attached Previous Planning Document prepared by AES dated July 19, 2016.

End of Addendum # 1

Town of Moriah

Office of Community Renewal (OCR) Community Development Block Grant (CDBG) Application For Sewer Main Replacements on Lamos Lane

AES Project 4517
July 19, 2016

Prepared for:
Town of Moriah
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AES Project No. 4517

Town of Moriah
Office of Community Renewal (OCR)
Community Development Block Grant (CDBG) Application
For Sewer Main Replacements on Lamos Lnae
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**Summary of Work (SOW)
for the
Town of Moriah**

**Office of Community Renewal (OCR)
Community Development Block Grant (CDBG) Application
For Sewer Main Replacement on Lamos Lane**

**AES Project No. 4517
July 19, 2016**

I. INTRODUCTION

The Town of Moriah (hereinafter "Town") owns, operates, and maintains its own sewer infrastructure for the residents of the Town. The Town has been very proactive in investigating and developing a long-term plan for replacement, reconstruction, or rehabilitation of the aged and sometimes dilapidated sewer infrastructure which serves the Town residents.

This Community Development Block Grant (CDBG) Application to the Office of Community Renewal (OCR) is being provided in order to continue the Town's long-term goals to support and complete improvements to these critical infrastructure components. This project entails the replacement of sewer infrastructure for Lamos Lane as indicated in the schematic plan of project areas shown in **Exhibit A**.

In support of this application, Essex County Office of Community Resources conducted an Income Survey which resulted in 76.5% of the residents being "Low/Mod" Income (refer to **Exhibit B**). The components of the project improvements are discussed below.

II. SUMMARY OF INVESTIGATION

2.1 Previous Findings

In 2013, the Town of Moriah and Village of Port Henry entered into an Order of Consent with the New York State Department of Environmental Conservation (NYSDEC) for sanitary sewer overflows experienced at Manhole 13 (MH13). MH13 is located within the Village of Port Henry collection system, approximately 1,800 ft. north of the treatment plant. During peak flows, MH13 experiences sewer overflows due to the Town of Moriah collection system being hydraulically connected to MH13. The Town of Moriah entered into another Order on Consent with the NYSDEC in 2015 as a result of chronic sanitary sewer overflows in the Mineville/Witherbee area. The sewer mains located on Lamos Lane contribute to these sewer overflows, as significant I&I have been documented. These

sewer mains are constructed of Vitrified Clay Tile (VCT) piping which has deteriorated over time, and been subject to intruding roots and root balls which lead to blockings and reduced flow capacity. A history of Sanitary Sewer Overflows (SSO's) is shown in Exhibit C. The blockings and reduced flow capacity due to I&I increase the energy usage at the treatment plant, which in turn result in sewer overflows at MH13.

2.2 Existing Conditions

The sewer main located at Lamos Lane is located in Witherbee, adjacent to the old mine tailing stockpiles. The sewer main collects wastewater from Lamos Lane properties, as well as adjacent upstream properties located on Wasson Street, Belfry Hill Road, Tracy Road, Silver Hill Road, and portions of Witherbee Road. This sewer main consists of 6" and 8" VCT piping. The VCT piping was installed in the 1940's and has weakened over time. Manhole numbers and corresponding piping size is shown in Exhibit D. The VCT piping inspected in this area has numerous locations of intruding roots and root balls. Furthermore, the VCT piping was installed in small sections and has a significant number of joints which allow groundwater infiltration.

III. PROPOSED PROJECT

This project entails the replacement of sewer infrastructure for Lamos Lane as indicated in the schematic plan of project areas shown in Exhibit A. Included in the proposed project is installation of a new sewer main, reconnection of manholes, and details of manhole abandonment.

IV. PROJECT COSTS

The estimated probable project cost for this project is \$744,084. Probable project costs are presented in Exhibit E. With the assistance of the OCR CDBG of \$600,000, the Town is prepared to supplement additional funding and utilize "Town Force Account" work efforts to meet the project funding needs.

V. SUMMARY

The sewer main located at Lamos Lane has deteriorated over the past 70 years, and currently experiences blockages and reduced flow capacity as a result of I&I. These hindrances cause the energy usage at the treatment plant to increase which causes MH13 and other areas to overflow as a result of exceedence of flow capacity. With the approval and funding of this application for this critical infrastructure improvement, the quality of the sewer main at located at Lamos Lane will significantly be enhanced, which will reduce the potential of MH13 and other areas from overflowing as a result of improved flow capacity and energy usage.

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List of Exhibits

Exhibit	Description
A	Schematic Plan
B	Income Survey
C	SSO History
D	Manhole Data
E	Probable Project Costs

EXHIBIT A

Schematic Plan

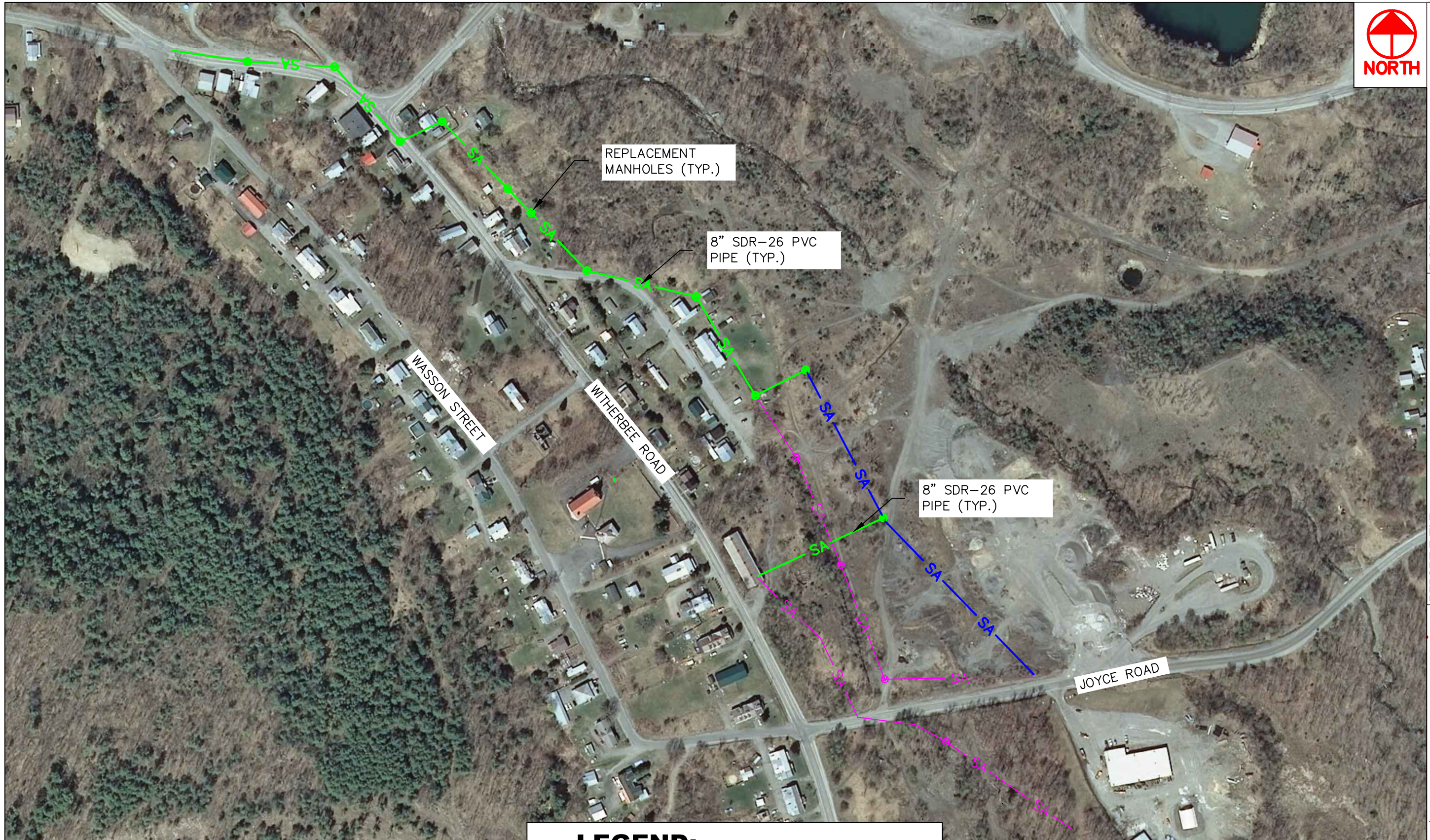


FIGURE NO.:
EXHIBIT A
SCHEMATIC PLAN

REPORT TITLE:
TOWN OF MORIAH
CDBG APPLICATION

PROJECT NO.:
4517

Plot Date: 7/14/16 Plot Time: 12:35 PM

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AES
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LEGEND:

		SANITARY SEWER REPLACEMENT
		EXISTING SANITARY SEWER
		ABANDON EXISTING SANITARY SEWER

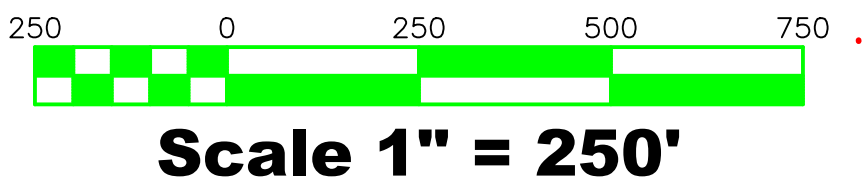


EXHIBIT B

Income Survey



INCOME SURVEY RESULTS: Town of Moriah - Lamos Lane

MOST RECENT UPDATE:	7/10/16
TOTAL NUMBER OF HOUSEHOLDS	20
TOTAL NUMBER OF VACANT HOUSEHOLDS	2
TOTAL NUMBER OF OCCUPIED HOUSEHOLDS:	18
TOTAL NUMBER OF RESPONSES:	18
RESPONSE RATE:	100%
NUMBER LOW/MOD INCOME HOUSEHOLDS:	15
NUMBER HOUSEHOLDS ABOVE LOW/MOD:	3
PERCENT LOW/MOD HOUSEHOLDS:	83.3%
PERCENT NON LOW/MOD HOUSEHOLDS:	16.7%
NUMBER OF INDIVIDUALS:	34
NUMBER OF LOW/MOD INDIVIDUALS:	26
NUMBER OF NON LOW/MOD INDIVIDUALS:	8
PERCENT LOW/MOD INDIVIDUALS:	76.5
AVERAGE LOW/MOD HOUSEHOLD SIZE:	1.73 Persons/Hshld.
AVERAGE NON LOW/MOD HOUSEHOLD SIZE:	2.67 Persons/Hshld.
ESTIMATED TOTAL LOW/MOD HOUSEHOLDS:	16
ESTIMATED TOTAL ABOVE LOW/MOD HOUSHOLDS:	4
ESTIMATED TOTAL LOW/MOD INDIVIDUALS:	27.7
ESTIMATED TOTAL ABOVE LOW/MOD INDIVIDUALS:	10.7
NUMBER LOW INCOME HOUSEHOLDS:	15
PERCENT LOW INCOME HOUSEHOLDS:	83.3%
NUMBER LOW INCOME INDIVIDUALS:	26
PERCENT LOW INCOME INDIVIDUALS:	76%
ESTIMATED TOTAL INDIVIDUALS:	38.4
MEDIAN HOUSEHOLD INCOME:	\$27,000



INCOME SURVEY RESULTS: Town of Moriah – Lamos Lane

ADDITIONAL INCOME SURVEY DATA REQUIRED FOR SMALL CITIES REPORTING:

VERY LOW INCOME POPULATION:

NUMBER OF HOUSEHOLDS SURVEYED @ 0-30% OF HAMFI:	8
PERCENT OF HOUSEHOLDS @ 0-30% OF HAMFI:	44.4%
NUMBER OF INDIVIDUALS SURVEYED @ 0-30% OF HAMFI:	8
PERCENT OF INDIVIDUALS @ 0-30% OF HAMFI:	23.5%

LOW INCOME POPULATION:

NUMBER OF HOUSEHOLDS SURVEYED @ 31-50% OF HAMFI:	3
PERCENT OF HOUSEHOLDS @ 31-50% OF HAMFI:	16.7%
NUMBER OF INDIVIDUALS SURVEYED @ 31-50% OF HAMFI:	9
PERCENT OF INDIVIDUALS @ 31-50% OF HAMFI:	26.5%

MODERATE INCOME POPULATION:

NUMBER OF HOUSEHOLDS SURVEYED @ 51-80% OF HAMFI:	5
PERCENT OF HOUSEHOLDS @ 51-80% OF HAMFI:	19.2%
NUMBER OF INDIVIDUALS SURVEYED @ 51-80% OF HAMFI:	9
PERCENT OF INDIVIDUALS @ 51-80% OF HAMFI:	26.5%

ABOVE LOW/MOD INCOME POPULATION:

NUMBER OF HOUSEHOLDS SURVEYED @ =>81% OF HAMFI:	4
PERCENT OF HOUSEHOLDS @ =>81% OF HAMFI:	16.7%
NUMBER OF INDIVIDUALS SURVEYED @ =>81% OF HAMFI:	8
PERCENT OF INDIVIDUALS @ =>81% OF HAMFI:	23.5%



INCOME SURVEY RESULTS: Town of Moriah – Lamos Lane

ADDITIONAL INCOME SURVEY DATA REQUIRED FOR SMALL CITIES REPORTING:

	# of Persons	# who are Hispanic
WHITE	31	
BLACK / AFRICAN AMERICAN	3	
ASIAN		
AMERICAN INDIAN / ALASKAN NATIVE		
NATIVE HAWAIIAN / OTHER PACIFIC ISLANDER		
AMERICAN INDIAN/ALASKAN NATIVE & WHITE		
ASIAN & WHITE		
BLACK / AFRICAN AMERICAN & WHITE		
AMER. INDIAN/ALASKAN NATIVE & BLACK/AFRICAN AMER.		
OTHER MULTI-RACIAL		
TOTALS*	34	

of disabled individuals among responding households:

of female heads of household among responding households:

* Racial/ethnic totals will not necessarily equal the total number of individuals reported on Page 1 because some households may decline to respond to this survey question.

EXHIBIT C

SSO History

Date	Manhole (MH)	Cause of SSO
03/05/2002	Wetherbee Rd/Lamos Lane (MH location not documented by Town)	6" VCT pipe plugged with roots and rags
08/02/2009	MH32	Overflow due to blockage. Town removed dirt, stones, grease, roots, plastic soda bottle, and broken brick
02/10/2010	MH33/34	Greaser blockage caused sewer backup into customer home
03/26/2010	MH28	Overflow due to high rainfall event

EXHIBIT D

Manhole Data

Downstream Manhole	Upstream Manhole	Size	Type
MH35	MH22	6"	VCT
MH34	MH35	6"	VCT
MH32	MH33	6"	VCT
MH31	MH32	6"	VCT
MH30	MH31	6"	VCT
MH29	MH30	6"	VCT
MH28	MH29	8"	VCT
MH27	MH28	8"	VCT
MH26	MH27	8"	VCT
MH25	MH26	8"	VCT

EXHIBIT E

Probable Project Costs

TOWN OF MORIAH
Office of Community Renewal (OCR)
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for Sewer Main Replacement on Lamos Lane
Probable Project Costs
Exhibit E

No.	Description of Item	Units	Est. Qty	Average Unit Cost	Total
1	8" SDR 26 PVC	LF	2,115	\$ 80.00	\$ 169,200.00
2	4'Dia Sanitary Manhole	EA	10	\$ 5,000.00	\$ 50,000.00
3	4"SDR 26 PVC	LF	250	\$ 50.00	\$ 12,500.00
4	Cleanout	EA	10	\$ 300.00	\$ 3,000.00
5	Abandon Existing Manholes	EA	10	\$ 500.00	\$ 5,000.00
6	Asphalt Pavement Repairs	SY	90	\$ 40.00	\$ 3,600.00
7	Restoration	LF	2,115	\$ 20.00	\$ 42,300.00
8	Maintenance and Protection of Traffic	DAY	5	\$ 1,000.00	\$ 5,000.00
9	Select Granular Fill	CY	5,640	\$ 20.00	\$ 112,800.00
10	#2 Stone	Tons	705	\$ 40.00	\$ 28,200.00
11	General Allowance	LS	1	\$ 50,000.00	\$ 50,000.00
12	Allowance	LS	1	\$ 10,000.00	\$ 10,000.00
13	Rock Removal	CY	100	\$ 100.00	\$ 10,000.00
14	Pavement Line Striping	LS	1	\$ 4,100.00	\$ 4,100.00
15	Silt Fencing	LF	2,000	\$ 4.00	\$ 8,000.00
16	Check Dams	EA	10	\$ 500.00	\$ 5,000.00
17	Sediment Trap	EA	1	\$ 5,000.00	\$ 5,000.00
18	Temporay Construction Fence	LF	200	\$ 200.00	\$ 40,000.00
19	Subtotal Construction				\$ 563,700.00
20	Engineering Services Construction Observation, Legal and Bonding Fees @20%				\$ 112,740.00
21	Project Contingencies @10%				\$ 67,644.00
22	Total Cost				\$ 744,084.00