



**CITY OF NOVI CITY COUNCIL
SEPTEMBER 30, 2024**

SUBJECT: Approval to award engineering design services to Spalding DeDecker for the design of East Lake Drive Storm Sewer Improvements, in the amount of \$50,851.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

KEY HIGHLIGHTS:

- \$50,851 requested for engineering design required to upsize storm sewer on Monticello and East Lake Drives.
- The project will address a failing outlet pipe to Walled Lake and improve drainage on local streets.

FINANCIAL IMPACT

	FY 2024/25
EXPENDITURE REQUIRED	\$ 50,851
BUDGET	
<u>Drain Fund</u> (211-445.00-975.204)	\$784,437
APPROPRIATION REQUIRED	\$0
FUND BALANCE IMPACT	\$0
<ul style="list-style-type: none">• Budget includes current estimated total project costs (geotechnical services, construction, construction engineering, crew days, material testing, contingency, etc.).• Geotechnical investigation and easement acquisition will be performed during the engineering design phase.	

BACKGROUND INFORMATION:

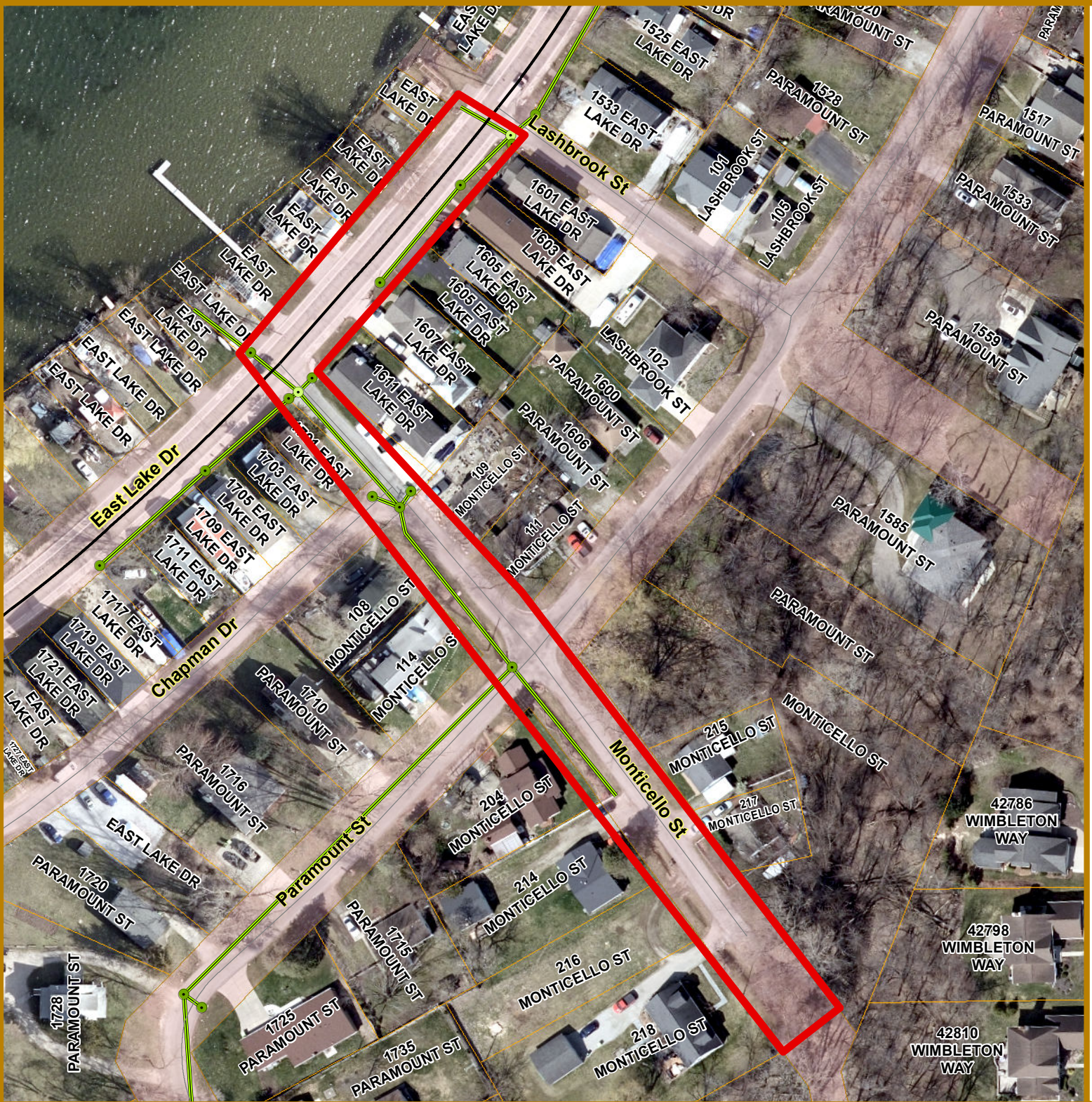
City field staff recently identified a failing stormwater outlet pipe to Walled Lake off East Lake Dr at Monticello Dr. The existing ditch on Monticello Dr. was also observed to be holding stormwater and not flowing properly to the outlet. Subsequently, City engineering consultant, Spalding DeDecker, performed an investigation and

condition assessment of the failing outlet pipe and adjacent drainage area. Spalding DeDecker recommends enclosing the ditch on Monticello Dr, upsizing the existing storm sewer, and rerouting the stormwater to outlet at a City-owned parcel near East Lake Dr and Lashbrook St north of the failing outlet. Replacing the failing outlet is not recommended because it is under a private shed with no recorded drainage easement and contact with the property owner has been unsuccessful.

Spalding DeDecker prepared a scope of services for design of the storm sewer improvements. The attached proposal outlines the detailed scope of services. The design fee will be \$50,851 (8.75% of the estimated construction cost of \$581,150). Design of the project would begin following the award, with construction expected to start in the summer of 2025.

RECOMMENDED ACTION: Approval to award engineering design services to Spalding DeDecker for the design of East Lake Drive Storm Sewer Improvements in the amount of \$50,851.

East Lake Drive Drainage Improvements Location Map



Map Author: Runkel
Date: 9-17-24
Version #: 1.0

MAP INTERPRETATION NOTICE
Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

Legend

- Stormwater Inlet
- Stormwater Manhole
- Project Area
- Storm Sewer
- Right of Way - Novi Edits



City of Novi

Engineering Division
Department of Public Works
26300 Lee BeGole Drive
Novi, MI 48375
cityofnovi.org



September 10, 2024

Mr. Ben Croy
City Engineer
City of Novi
26300 Lee Begole Drive
Novi, MI 48375

Re: East Lake Drive - Storm Sewer Design
City of Novi
SDA No. NV23007

Dear Mr. Croy,

Spalding DeDecker (SD) is pleased to have this opportunity to present this proposal for engineering design services based on the recommendations from our previous investigation into the stormwater issues along East Lake Drive where a culvert and outlet are failing near Monticello Street.

Project Understanding

SD understands that to improve drainage along Monticello Drive, the existing stormwater system and outlet into Walled Lake needs to be upsized to 24"-30" pipes to handle the large contributing drainage area which includes the detention pond discharge from the neighborhood south of 13 Mile. A proposed pipe was preliminarily sized at 24 inches and was modeled to confirm the reduction in surcharging during a 10-year event.

In February 2024, SD provided the City with an exhibit with two potential options and associated construction cost estimates. As shown in the attached exhibit, the two options include enclosing the existing drainage system and either obtaining an easement to replace the existing outlet or rerouting the storm sewer to outlet at the City owned parcel near the intersection of East Lake Drive and Lashbrook Street. Because a drainage easement at the current outfall location cannot be confirmed, it is recommended that the stormwater be rerouted to the north to the adjacent outlet.

Proposed Scope of Services

SD's scope will include:

- Prepare a topographic survey of the tributary drainage area and storm sewer route to obtain all surface features and surface elevation information.
- Obtain geotechnical investigation and report of existing pavement and subsurface conditions.
- Review and implement current documentation for existing utilities into the design to minimize conflicts in construction.
- Prepare preliminary layout and cost estimate for review.
- Prepare 70% plans and specifications for review by the City of Novi.
- Prepare MDEQ permit applications for submittal.
- Prepare final plans and specifications for review.

- Prepare bid documents.
- Assist the City during the bidding process as needed.

Construction Cost Estimate and Proposed Fees

Based on our pre-qualification status with the City, engineering design fees are typically based on a pre-determined percentage of the pre-design construction cost estimate. A preliminary cost estimate for the project has been generated with an estimated cost of \$581,150.00. Based on this estimated cost, the fee for this project will be:

Design Phase Services (8.75% of estimated cost) - **\$50,851.00**

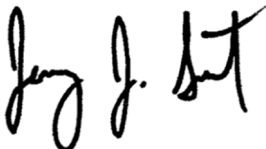
Project Schedule

The following summarizes the anticipated schedule for the project:

Milestone	Completed By
Design Project Award	Sep 2024
Initial Meetings and Site Visits	late Sep 2024
Survey Field Work	Oct 2024
70% Preliminary Plans	Dec 2024
MDEQ Permit Submittals	Dec 2024
90% Final Plans	Feb 2025
100% Bid Package & Advertising	Mar 2025
Bid Opening	Apr 2025
Award by Council	early May 2025
Construction Start	Jun 2025
Construction Completion	Sep 2025

Thank you for the opportunity to submit this proposal, and we look forward to continuing our work with the City on this effort. If you find this proposal acceptable, please sign and return one copy to our office and retain one for your records. If you wish to discuss this proposal or require additional information, please feel free to contact me.

Sincerely,
Spalding DeDecker

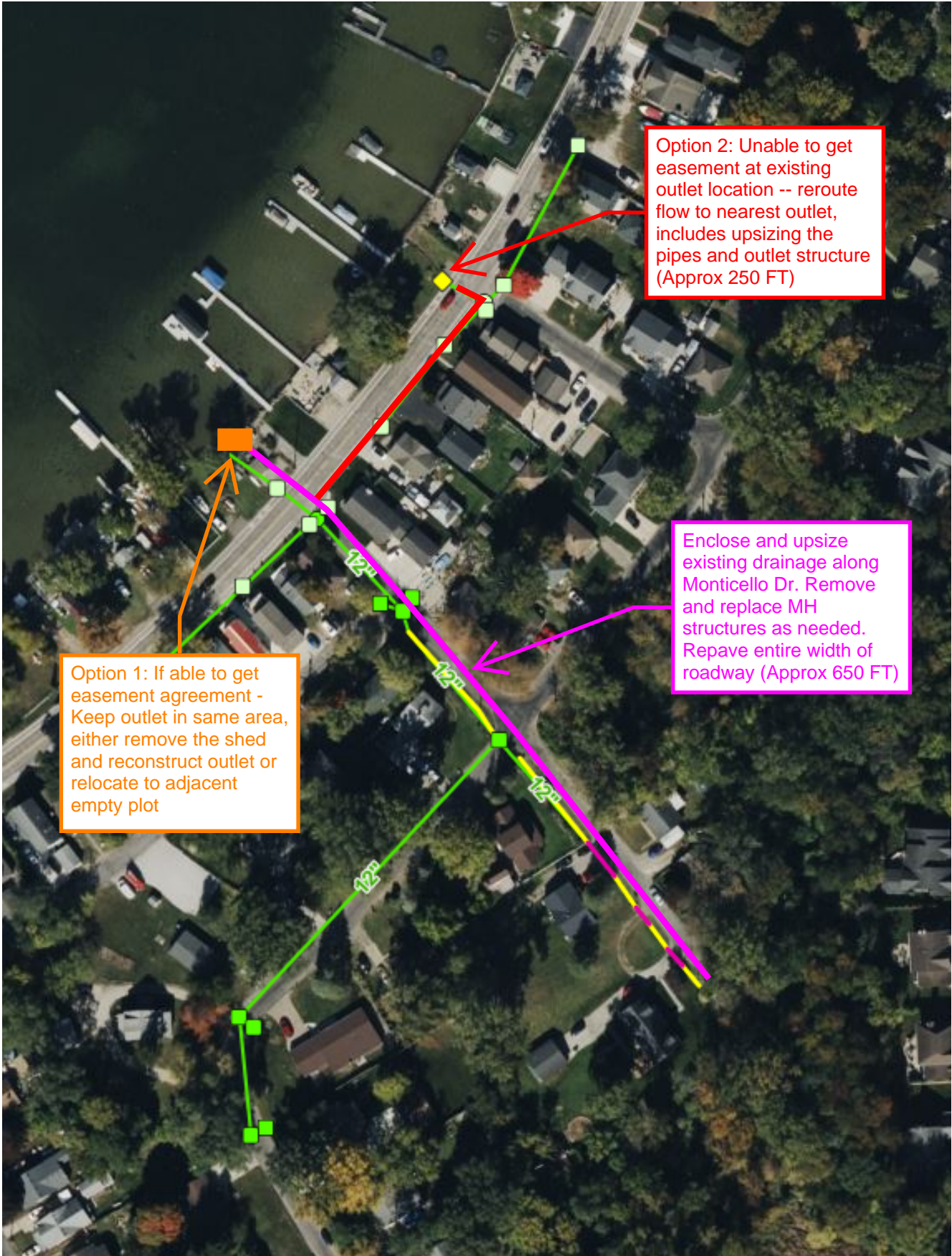


Jeremy Schrot, PE
Public Engineering Director

Accepted by:
City of Novi

Date: _____

NV23007 - Eastlake Drive Drainage Improvement Preliminary Plan to Address Drainage Issue



Option 2: Unable to get easement at existing outlet location -- reroute flow to nearest outlet, includes upsizing the pipes and outlet structure (Approx 250 FT)

Enclose and upsize existing drainage along Monticello Dr. Remove and replace MH structures as needed. Repave entire width of roadway (Approx 650 FT)

Option 1: If able to get easement agreement - Keep outlet in same area, either remove the shed and reconstruct outlet or relocate to adjacent empty plot

Project: Eastlake Drive Drainage Improvements
 Client: City of Novi
 By: APL

Proj. No: NV23007
 Date: 9/10/2024

OPINION OF PROBABLE CONSTRUCTION COST				
	Unit	Qty	Unit Price	Item Cost
1	Bonds, Insurance and Mobilization (10% Max)	LS	1	\$ 51,000.00 \$ 51,000.00
2	Pre-Construction Audio-Visual	LS	1	\$ 3,000.00 \$ 3,000.00
3	Clearing	LS	1	\$ 10,000.00 \$ 10,000.00
4	Soil Erosion & Sediment Control	LS	1	\$ 6,000.00 \$ 6,000.00
5	Tree Protection Fencing	LF	100	\$ 5.00 \$ 500.00
6	Pavt, Rem	SYD	2000	\$ 20.00 \$ 40,000.00
7	Excavation, Earth	CYD	50	\$ 50.00 \$ 2,500.00
8	Embankment	CYD	100	\$ 30.00 \$ 3,000.00
9	8" Aggregate Base	SYD	2000	\$ 20.00 \$ 40,000.00
10	4" HMA	TON	470	\$ 150.00 \$ 70,500.00
11	Temporary Traffic Control	LS	1	\$ 40,000.00 \$ 40,000.00
12	Sewer, Rem, Less than 24 inch	FT	120	\$ 20.00 \$ 2,400.00
13	Sewer, Abandon (Fill with Grout)	CYD	12	\$ 300.00 \$ 3,600.00
14	Sewer, 12 inch	FT	200	\$ 150.00 \$ 30,000.00
15	Sewer, 24 to 30 inch	FT	880	\$ 220.00 \$ 193,600.00
16	Sewer Tap, 12 inch	EA	2	\$ 500.00 \$ 1,000.00
17	Dr Structure Tap, 12 inch	EA	3	\$ 1,000.00 \$ 3,000.00
18	Sewer Bulkhead, 12 inch	EA	8	\$ 350.00 \$ 2,800.00
19	Dr Structure, Rem	EA	3	\$ 750.00 \$ 2,250.00
20	Dr Struture, 48 inch dia	EA	2	\$ 5,500.00 \$ 11,000.00
21	Dr Structure, 60 inch dia	EA	5	\$ 7,500.00 \$ 37,500.00
22	Outlet Structure, Abandon	EA	1	\$ 5,000.00 \$ 5,000.00
23	Outlet Structure	EA	1	\$ 10,000.00 \$ 10,000.00
24	Permits	DLR	2500	\$ 1.00 \$ 2,500.00
25	Restoration	LS	1	\$ 10,000.00 \$ 10,000.00
Construction Subtotal				\$ 581,150.00
ENGINEERING FEES (8.75%):				\$ 50,851.00
ROW ACQUISITION (\$2700/PERMANENT EASEMENT):				\$ -
GEOTECHNICAL (2.5%):				\$ 14,528.75
DESIGN CONTINGENCY (20%):				\$ 13,076.00
CONSTRUCTION ADMINISTRATION (6.00%):				\$ 34,869.00
25	Crew Days: 45	DAYS @	\$ 800.00	\$ 36,000.00
CONSTRUCTION MATERIAL TESTING (2.5%):				\$ 14,528.75
CONSTRUCTION CONTINGENCY (10%):				\$ 66,655.00
Total Estimated Cost:				\$811,658.50
OPINION OF PROBABLE CONSTRUCTION COST				
<i>In providing opinions of probable construction cost, the Client understands that the Consultant has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the Consultant's opinions of probable construction costs are made on the basis of the Consultant's professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant's opinion of probable construction cost.</i>				