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Village Manager's Office

MAY 12 2011

May 10, 2011

Mayor Daniel J. McLaughlin
Village of Orland Park
14700 Ravinia Avenue
Orland Park, IL 60462

VILLAGE OF ORLAND PARK

Attn: Paul Grimes
Village Manager

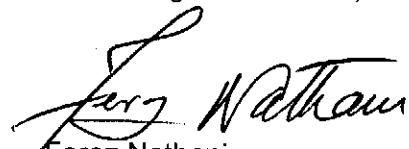
Re: Phase 2 Engineering Design Services
143rd Street – Wolf Road to Will Cook Road

Dear Mayor McLaughlin:

Please find attached a proposal to complete Phase 2 Engineering Design Services for the above referenced project. The proposed services for Phase 2 engineering as detailed in the attached documents total \$420,699.80 including sub-consultant services. Please be advised Phase 2 engineering is programmed for \$450,000 utilizing STP funding. The local share is 30%. Since 143rd Street is an unmarked state route under IDOT jurisdiction, the Village should consider writing a letter and request a joint agreement, as they did in Phase I, for IDOT to split the local match.

We appreciate the opportunity to provide engineering services to the Village of Orland Park. Please call me at (312) 946-7104 if you have any questions or require additional information.

Very truly yours,
McDonough Associates, Inc.


Feroz Nathani
President

cc. Ed Wilmes, Mike Hannemann

**143rd Street Reconstruction
Will-Cook Road to Wolf Road
Village of Orland Park**

Scope of Work

The project objective is to prepare Phase II Contract Plans and Specifications for the improvement of the 143rd Street between Will-Cook Road and Wolf Road. The roadway is being reconstructed from two-lane to four-lane with median/left-turn lane. The limits will be from the east leg of Will-Cook Road to the west leg of Wolf Road, tying into adjacent projects. It is assumed that no land bridge will be constructed as a part of this project. If this is not the case, an extra will be required to design the land bridge. Design includes a 10'x6' triple box culvert, new traffic signal installation at Creek Crossing Drive, new sidewalk and new closed drainage system. Approximate total length of project is 4,700 feet. All work will be performed in full accordance with IDOT standards, procedures, requirements and criteria.

1. Ground Survey

	Man-hours	Direct Costs
Survey		
Establish Project Control and Alignment	64	
Cross Sections	48	
Topographic (object type, size, location, condition)	96	
Drainage Survey (size, type, invert and flow direction)	40	
CADD	32	
Survey Materials		\$ 100.00
Vehicle Allowance		\$ 630.00
Sub-Total	280	\$ 730.00

2. Final Design Items

Culvert		
10'x6' Triple Box Culvert TS&L	80	
Drainage System		
Storm Sewer Calculations	24	
Detention Calculations	16	
Safety		
Guardrail and Handrail Design	40	
Sub-Total	160	\$ 150.00

3. Ground Stabilization Design and Coordination

Piled Embankment Design	40	\$ 81,925.80
Settlement Analysis and Discussions	24	
Preferred Alternative Meetings with Wang Engineering and Village Officials	24	
Sub-Total	88	\$ 81,925.80

4. Permitting

United States Army Corps of Engineers 404 Permit and Regional Permits	40	
Illinois Department of Natural Resources - Office of Water Resources Floodway Permit	20	
Illinois Environmental Protection Agency - NPDES Permit	4	
Sub-Total	64	\$ 250.00

5. Roadway - Contract Plans, Specifications and Estimate

	Sheets	Hrs/Sheet	Man-hours	Direct Costs
Cover Sheet	1	8	8	
Plan Index, General Notes and Legend	1	30	30	
Summary of Quantities and Schedules	5	20	100	
Alignment, Ties, Benchmarks and Right-Of-Way Corners	2	20	40	
Traffic Control Drawings (3 Stages)	8	20	160	
Typical Cross Section Drawings	2	24	48	
Roadway Plan and Profile Drawing (4 Mainline)	4	30	120	
Drainage Plan and Profile Drawings (4 Mainline)	4	30	120	
Retaining Wall Details and Sections	3	30	90	
Triple Box Culvert Plans and Details	3	40	120	
Ground Stabilization Plans and Details	4	40	160	

Miscellaneous Design Details	2	20	40	
Traffic Signal Plans (Creek Crossing Drive)	4	30	120	
Traffic Signal Details	4	4	16	
Temporary Erosion Control Plans	4	20	80	
Landscaping and Erosion Control Plans	4	30	120	
Pavement Marking Plans	4	30	120	
Roadway Cross Sections (every 50 feet and driveways)	12	12	144	
Specifications and Special Provisions			40	
Storm Water Pollution Prevention Plan			20	
Engineering Cost Estimate (Preliminary, PreFinal and Final)			20	
Quantity and Design Calculations			40	
QA/QC			80	
Computer Plotting, Xerox Copies and Reproductions (See Exhibit G)				\$ 4,000.00
Meeting Transportation (10 meetings at \$36)				\$ 500.00
Sub-Total	71		1836	\$ 4,500.00

6. Meetings and Coordination

Village of Orland Park		40	
Illinois Department of Transportation		40	
United States Army Corps of Engineers		16	
Stakeholders, Businesses and General Public		40	
Project Management and Administration		80	
Sub-Total		216	\$ -

TOTAL MAN-HOURS	2644	
ESTIMATED AVERAGE HOURLY WAGE RATE		\$ 45.00
MULTIPLIER	2.8	
SUB-TOTAL	\$ 333,144.00	
IN-HOUSE COSTS AND SERVICES BY OTHERS (SEE ABOVE)	\$ 87,555.80	
PROJECT TOTAL	\$ 420,699.80	

