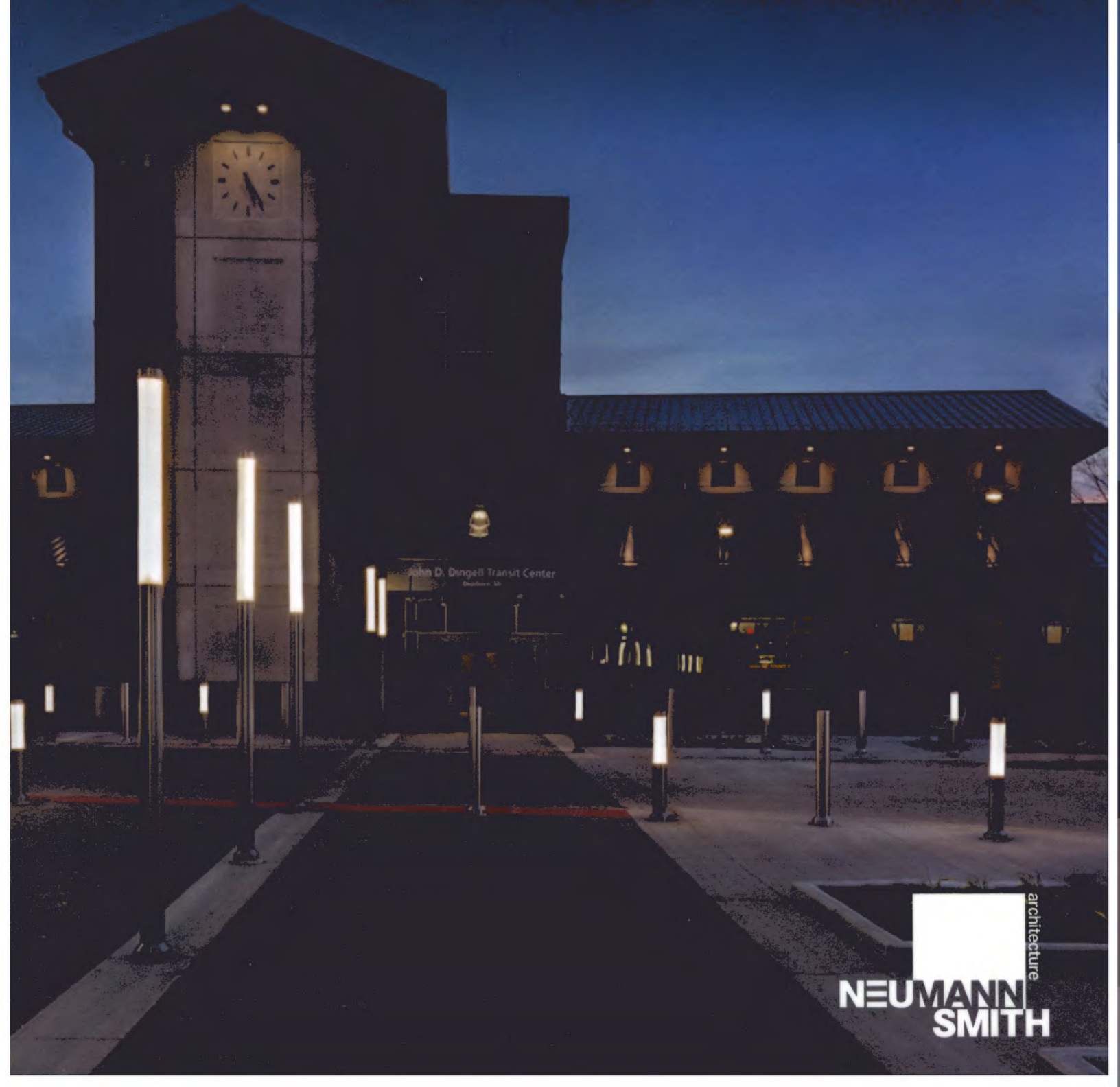


REQUEST FOR PROPOSAL FOR THE CITY OF ANN ARBOR
**ANN ARBOR STATION PRELIMINARY
ENGINEERING SERVICES**

PART 2: FEE PROPOSAL



architecture
**NEUMANN
SMITH**

ATTACHMENT A
THE CITY OF ANN ARBOR
AND
THE STATE OF MICHIGAN

NEUMANN/SMITH ARCHITECTURE

The estimated cost breakdown for the Ann Arbor Station Preliminary Engineering project:

DELIVERABLE	COST ESTIMATE
Task 1: Project Initiation	\$35,000.00
Task 2: Public Participation	\$150,000.00
Task 3: Preliminary Engineering	\$2,081,987.02
Task 4: Project Management	\$100,000.00
TOTAL FEES & DIRECT COSTS	\$2,366,987.02

NOTE: These fees and respective scope of work are based on receiving a single site selection, completed NEPA studies and a Notice to Proceed from the City of Ann Arbor at the start of our work engagement on November 1st, 2016. If the City of Ann Arbor or MDOT receives a time extension beyond June 30, 2017 for submission of the Preliminary Engineering studies we respectfully request the ability to revise our proposed fees for the extension period.

MASTER DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	Ann Arbor Station Preliminary Engineering Services

PRIME CONSULTANT NAME
Neumann/Smith Architecture

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Principal Architect in Charge	250		\$ 72.13		\$ 18,032.50
Project Manager	720		\$ 60.84		\$ 43,804.80
Project Designer	720		\$ 50.93		\$ 36,669.60
Project Architect	1000		\$ 50.10		\$ 50,100.00
Technical Spec Writer	130		\$ 45.81		\$ 5,955.30
Architectural Illustrator	320		\$ 44.73		\$ 14,313.60
Interior Designer	130		\$ 38.94		\$ 5,062.20
CAD Drafter	1200		\$ 35.00		\$ 42,000.00
	Total Hours		4470		Total Labor
					\$ 215,938.00

OVERHEAD

OVERHEAD Rate	<u>170.00%</u>	Total Labor x Overhead Rate	<u>\$ 367,094.60</u>	Total Overhead	<u>\$ 367,094.60</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate		Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Mileage	Miles	5,500		\$0.54		\$ 2,970.00
3D Renderings	each	10		\$2,500		\$ 25,000.00
Reproduction	allowance	1		\$25,000		\$ 25,000.00
Express Mail	allowance	1		\$14,000		\$ 14,000.00
Misc	allowance	1		\$5,000		\$ 5,000.00
						Total Direct
						\$ 71,970.00

SUBCONSULTANT COSTS:

SmithGroupJJR	\$ 337,877.86
Mitchell Mouat	\$ 240,060.00
Quandel	\$ 402,988.26
Rich Assoc	\$ 165,684.67
Desai Nasr	\$ 38,989.77
Peter Basso Assoc	\$ 63,332.57
LTK	\$ 147,590.91
FTCH	\$ 52,334.04
Somat	\$ 85,286.52
Mark Allan	\$ 89,996.23
Acoustics By Design	\$ 23,710.00
	Total Subconsultant
	\$ 1,647,850.83

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	<u>\$ 64,133.59</u>
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TOTAL COSTS **\$ 2,366,987.02**

DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	ANN ARBOR STATION PRELIMINARY ENGINEERING

SUBCONSULTANT NAME
Rich & Associates, Inc. Parking Consultants

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Principal Parking Consultant	24		\$ 72.00		\$ 1,728.00
Senior Parking Consultant	80		\$ 63.00		\$ 5,040.00
Senior Structural Engineer	140		\$ 63.00		\$ 8,820.00
Senior Associate / Project Manager	280		\$ 63.00		\$ 17,640.00
Associate Structural Engineer	200		\$ 45.00		\$ 9,000.00
CADD / Drafting Technicians	480		\$ 29.00		\$ 13,920.00
Clerical	40		\$ 18.00		\$ 720.00
	Total Hours				\$ 56,868.00
				Total Labor	\$ 56,868.00

OVERHEAD

OVERHEAD Rate	<u>164.00%</u>	Total Labor x Overhead Rate	<u>\$ 93,263.52</u>	Total Overhead	<u>\$ 93,263.52</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	_____	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Travel (Ann Arbor)		8		\$ 30.00		\$ 240.00
Printing / Copies		1		\$ 300.00		\$ 300.00
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
					Total Direct	\$ 540.00

SUBCONSULTANT COSTS:

	\$ -
	\$ -
Total Subconsultant	<u>\$ -</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x	10%	Total Fixed Fee	<u>\$ 15,013.15</u>
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TOTAL COSTS	<u>\$ 165,684.67</u>
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DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	ANN ARBOR STATION PRELIMINARY ENGINEERING

SUBCONSULTANT NAME
MARK ALLAN & ASSOCIATES, LLC

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
SR ESTIMATOR	488		\$ 78.76		\$ 38,434.88
	0		\$ -		\$ -
	0		\$ -		\$ -
	0		\$ -		\$ -
	0		\$ -		\$ -
	0		\$ -		\$ -
Total Hours	<u>488</u>			Total Labor	<u>\$ 38,434.88</u>

OVERHEAD

OVERHEAD Rate	<u>103.00%</u>	Total Labor x Overhead Rate	<u>\$ 39,587.93</u>	Total Overhead	<u>\$ 39,587.93</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	_____	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
MILEAGE	MILES	500		\$ 0.54		\$ 270.00
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
					Total Direct	<u>\$ 270.00</u>

SUBCONSULTANT COSTS:

	\$ -
	\$ -
Total Subconsultant	<u>\$ -</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 15% =	Total Fixed Fee	<u>\$ 11,703.42</u>
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TOTAL COSTS	<u>\$ 89,996.23</u>
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DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	ANN ARBOR STATION PRELIMINARY ENGINEERING

SUBCONSULTANT NAME

Acoustics By Design

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Department Manager/Senior Consultant	60		\$ 175.00		\$ 10,500.00
	0		\$ -		\$ -
	0		\$ -		\$ -
	0		\$ -		\$ -
	0		\$ -		\$ -
	0		\$ -		\$ -
Total Hours	60			Total Labor	\$ 10,500.00

OVERHEAD

OVERHEAD Rate	<u>100.00%</u>	Total Labor x Overhead Rate	<u>\$ 10,500.00</u>	Total Overhead	<u>\$ 10,500.00</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	_____	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Ann Arbor Site Visits		2		\$ 200.00		\$ 400.00
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
					Total Direct	\$ 400.00

SUBCONSULTANT COSTS:

	\$ -
	\$ -
Total Subconsultant	<u>\$ -</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	<u>\$ 2,310.00</u>
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TOTAL COSTS	<u>\$ 23,710.00</u>
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DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	Ann Arbor Station Preliminary Engineering Services

SUBCONSULTANT NAME

Quandel Consultants, LLC

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
PIC/QC	40		\$ 120.00		\$ 4,800.00
PM-RR	432		\$ 100.00		\$ 43,200.00
RR Ops	40		\$ 70.00		\$ 2,800.00
PE-4	944		\$ 55.00		\$ 51,920.00
PE-3	280		\$ 44.00		\$ 12,320.00
PE-2	360		\$ 35.00		\$ 12,600.00
PE-1	680		\$ 31.00		\$ 21,080.00
	Total Hours				\$ 148,720.00
				Total Labor	\$ 148,720.00

OVERHEAD

OVERHEAD Rate	<u>134.55%</u>	Total Labor x Overhead Rate	<u>\$ 200,102.76</u>	Total Overhead	<u>\$ 200,102.76</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	_____	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Auto Rental	Trip	39		\$100		\$ 3,900.00
Fuel	Trip	39		\$120		\$ 4,680.00
Hotel	Night	39		\$85		\$ 3,315.00
Per Diem	Day	78		\$45		\$ 3,510.00
Misc	Day	39		\$10		\$ 390.00
					Total Direct	\$ 15,795.00

SUBCONSULTANT COSTS:

	\$ -
	\$ -
Total Subconsultant	\$ -

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	<u>\$ 38,370.50</u>
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TOTAL COSTS	\$ 402,988.26
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DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
Preliminary Design	Ann Arbor Station
SUBCONSULTANT NAME	
Mitchell and Mouat Architects, Inc.	

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Principal	480		\$ 60.00		\$ 28,800.00
Project Manager	240		\$ 55.00		\$ 13,200.00
Senior Architect	720		\$ 55.00		\$ 39,600.00
Associate Architect	360		\$ 40.00		\$ 14,400.00
	0		\$ -		\$ -
	0		\$ -		\$ -
Total Hours	1800			Total Labor	\$ 96,000.00

OVERHEAD

OVERHEAD Rate	<u>125.00%</u>	Total Labor x Overhead Rate	<u>\$ 120,000.00</u>	Total Overhead	<u>\$ 120,000.00</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	_____	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Trips outside of Ann Arbor		10		\$ 30.00		\$ 300.00
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
					Total Direct	\$ 300.00

SUBCONSULTANT COSTS:

	\$ -
	\$ -
Total Subconsultant	<u>\$ -</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	<u>\$ 23,760.00</u>
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TOTAL COSTS	<u>\$ 240,060.00</u>
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DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S) RFP No. 981	PROJECT DESCRIPTION Ann Arbor Station Preliminary Engineering Services
SUBCONSULTANT NAME LTK Engineering Services	

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Engineer	596		\$ 82.35		\$ 49,080.60
CADD	120		\$ 32.41		\$ 3,889.20
	0		\$ -		\$ -
	0		\$ -		\$ -
	0		\$ -		\$ -
	0		\$ -		\$ -
Total Hours	<u>716</u>			Total Labor	<u>\$ 52,969.80</u>

OVERHEAD

OVERHEAD Rate	<u>148.86%</u>	Total Labor x Overhead Rate	<u>\$ 78,850.84</u>	Total Overhead	<u>\$ 78,850.84</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	_____	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Reproduction/Mailing	1	1		\$ 300.00		\$ 300.00
Travel	1	2		\$ 485.00		\$ 970.00
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
Total Direct						<u>\$ 1,270.00</u>

SUBCONSULTANT COSTS:

	\$ -
	\$ -
Total Subconsultant	<u>\$ -</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	<u>\$ 14,500.27</u>
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TOTAL COSTS	<u>\$ 147,590.91</u>
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DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	Ann Arbor Station (Task 3.6 Transportation Study)

SUBCONSULTANT NAME

FTCH

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Chris Wall, PE, PTP, PTOE	60		\$ 53.58		\$ 3,214.80
Kristen Pawlowski, PE	152		\$ 33.75		\$ 5,130.00
Todd Jacobs	160		\$ 26.25		\$ 4,200.00
Angel Gengler	70		\$ 17.50		\$ 1,225.00
Valerie Rice	70		\$ 21.50		\$ 1,505.00
Christine Price	32		\$ 22.50		\$ 720.00
	Total Hours				Total Labor
	<u>544</u>				<u>\$ 15,994.80</u>

OVERHEAD

OVERHEAD Rate	<u>190.77%</u>	Total Labor x Overhead Rate	<u>\$ 30,513.28</u>	Total Overhead	<u>\$ 30,513.28</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	<u>0.51%</u>	Total Labor x F.C.C.M. Rate	<u>\$ 81.57</u>	Total F.C.C.M.	<u>\$ 81.57</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Travel - Personal Vehicle	Mile	150		\$ 0.54		\$ 81.00
Travel - Company Vehicle	Mile	50		\$ 0.95		\$ 47.50
Count Gear	LS	1		\$ 500.00		\$ 500.00
						Total Direct
						<u>\$ 628.50</u>

SUBCONSULTANT COSTS:

NA				\$	-
				\$	-
				Total Subconsultant	<u>\$ -</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	<u>\$ 5,115.89</u>
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TOTAL COSTS \$ 52,334.04

DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	ANN ARBOR STATION PRELIMINARY ENGINEERING
SUBCONSULTANT NAME	
Peter Basso Associates, Inc.	

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Principal, Senior Engineer	8		\$ 58.00		\$ 464.00
Project Manager	18		\$ 58.00		\$ 1,044.00
Senior Engineer	65		\$ 58.00		\$ 3,770.00
Engineer	0		\$ 48.00		\$ -
Design Coordinator	6		\$ 40.00		\$ 240.00
Associate Architect	0		\$ 28.00		\$ -
Mechanical HVAC Engineer	147		\$ 48.00		\$ 7,056.00
Electrical Engineer	149		\$ 48.00		\$ 7,152.00
Plumbing and Fire Protection Engineer	48		\$ 48.00		\$ 2,304.00
Cadd Operator/Associate Architect	34		\$ 20.00		\$ 680.00
Administrator	0		\$ 20.00		\$ -
	Total Hours				\$ 22,710.00
	<u>475</u>				<u>\$ 22,710.00</u>

OVERHEAD

OVERHEAD Rate	<u>148.00%</u>	Total Labor x Overhead Rate	<u>\$ 33,610.80</u>	Total Overhead	<u>\$ 33,610.80</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	<u> </u>	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Mileage to AA mtgs		1512		\$ 0.54		\$ 816.48
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
						\$ 816.48
						<u>\$ 816.48</u>

SUBCONSULTANT COSTS:

Total Subconsultant	\$ -
	<u>\$ -</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	<u>\$ 6,195.29</u>
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TOTAL COSTS	<u>\$ 63,332.57</u>
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DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
DNCE Project No. 9907	Ann Arbor Train Station/Task 3-Preliminary Engineering (PE) 30%*
SUBCONSULTANT NAME	
Desai/Nasr Consulting Engineers, Inc.	

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Principal Structural Engineer	36		\$ 62.50		\$ 2,250.00
Senior Structural Engineer	108		\$ 47.35		\$ 5,113.80
Intermediate Structural Engineer	120		\$ 37.88		\$ 4,545.60
CAD	96		\$ 28.40		\$ 2,726.40
	0		\$ -		\$ -
	0		\$ -		\$ -
	Total Hours		360		Total Labor
					\$ 14,635.80

OVERHEAD

OVERHEAD Rate	<u>140.00%</u>	Total Labor x Overhead Rate	\$ 20,490.12	Total Overhead	\$ 20,490.12
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	_____	Total Labor x F.C.C.M. Rate	\$ -	Total F.C.C.M.	\$ -
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
		0		\$ -		\$ -
						Total Direct
						\$ -

SUBCONSULTANT COSTS:

	\$ -
	\$ -
Total Subconsultant	\$ -

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	\$ 3,863.85
	TOTAL COSTS	\$ 38,989.77

*Cost Estimating not included

*No involvement in Tasks 1, 2 & 4

DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
NA	Ann Arbor Station Preliminary Engineering Services
SUBCONSULTANT NAME	
SmithGroupJJR 9.22.16	

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
Sr. Landscape Architect I	220		\$ 46.76		\$ 10,287.20
Sr. Landscape Architect II	340		\$ 38.90		\$ 13,226.00
Landscape Architect I	510		\$ 22.03		\$ 11,235.30
Landscape Architect II	0		\$ -		\$ -
Sr. Civil Engineer I	240		\$ 76.50		\$ 18,360.00
Civil Engineer I	510		\$ 31.07		\$ 15,845.70
Environmental	80		\$ 32.77		\$ 2,621.60
Survey I	218		\$ 44.90		\$ 9,788.20
Survey II	434		\$ 31.70		\$ 13,757.80
CAD/Technical	200		\$ 31.07		\$ 6,214.00
Clerical	120		\$ 21.97		\$ 2,636.40
	Total Hours				Total Labor
	<u>2872</u>				<u>\$ 103,972.20</u>

OVERHEAD

OVERHEAD Rate	<u>170.41%</u>	Total Labor x Overhead Rate	<u>\$ 177,179.03</u>	Total Overhead	<u>\$ 177,179.03</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	<u>0.00%</u>	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Milage	mile	200		\$ 0.50		\$ 100.00
Printing (plots)	24x36	200		\$ 15.00		\$ 3,000.00
Printing (handouts)	81/2x11	400		\$ 1.00		\$ 400.00
Survey Research	lump sum	1		\$ 300.00		\$ 300.00
Rail Coordination (flagman)	days	20		\$ 1,000.00		\$ 20,000.00
Misc (room charges, ads, supplies, meals)	lump sum	1		\$ 2,000.00		\$ 2,000.00
		0		\$ -		\$ -
						Total Direct
						<u>\$ 25,800.00</u>

SUBCONSULTANT COSTS:

	\$ -
	\$ -
Total Subconsultant	<u>\$ -</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 11% =	Total Fixed Fee	<u>\$ 30,926.63</u>
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TOTAL COSTS	<u>\$ 337,877.86</u>
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DERIVATION OF COST PROPOSAL

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	ANN ARBOR STATION PRELIMINARY ENGINEERING SERVICES GEOTECHNICAL SERVICES

SUBCONSULTANT NAME

SOMAT ENGINEERING, INC

DIRECT LABOR:

CLASSIFICATION	Hours	x	Hourly Rate	=	Labor Cost
SR. PROJECT MANAGER	10		\$ 60.10		\$ 601.00
PROJECT MANAGER	36		\$ 43.00		\$ 1,548.00
PROJECT ENGINEER	80		\$ 31.00		\$ 2,480.00
STAFF GEOLOGIST	8		\$ 28.00		\$ 224.00
LABORATORY SUPERVISOR	34		\$ 19.50		\$ 663.00
FIELD ENGINEER	126		\$ 21.00		\$ 2,646.00
FIELD TECHNICIAN	56		\$ 18.50		\$ 1,036.00
CLERICAL	10		\$ 19.50		\$ 195.00
Total Hours	<u>360</u>				Total Labor <u>\$ 9,393.00</u>

OVERHEAD

OVERHEAD Rate	<u>172.90%</u>	Total Labor x Overhead Rate	<u>\$ 16,240.50</u>	Total Overhead	<u>\$ 16,240.50</u>
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FACILITIES CAPITAL COST OF MONEY:

F.C.C.M. Rate	<u>0.00%</u>	Total Labor x F.C.C.M. Rate	<u>\$ -</u>	Total F.C.C.M.	<u>\$ -</u>
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DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

TYPE OF EXPENSE	Unit	Quantity	x	Rate	=	Direct Cost
Mileage	per mile	550		\$ 0.56		\$ 308.00
Pavement Coring	each	10		\$ 75.00		\$ 750.00
E-Rail training	Lump sum	1		\$ 500.00		\$ 500.00
Sample Jars	each	100		\$ 20.00		\$ 2,000.00
		0		\$ -		\$ -
						Total Direct <u>\$ 3,558.00</u>

SUBCONSULTANT COSTS:

Drilling subcontractor	\$ 24,750.00
Railroad Flagger	\$ 20,000.00
Tree Clearing	\$ 7,500.00
Total Subconsultant	<u>\$ 52,250.00</u>

FIXED FEE FOR PROFIT:

(Total Labor + Total Overhead) x 15% =	Total Fixed Fee	<u>\$ 3,845.02</u>
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TOTAL COSTS	<u>\$ 85,286.52</u>
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