

ORDINANCE NO. 2016-01

AN ORDINANCE AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES WITH RICHLAND ENGINEERING, LIMITED OF MANSFIELD, OHIO FOR ENGINEERING SERVICES FOR THE U.S. ROUTE 20 SEWER SEPARATION & STATE ROUTE 101 ROADWAY IMPROVEMENTS (SAN-USR20-26.40) IN THE CITY OF CLYDE; APPROPRIATING FUNDS AND AUTHORIZING THE EXPENDITURE OF MONEYS THEREFOR.

BE IT ORDAINED by the Council of the City of Clyde, State of Ohio:

SECTION 1. That the City Manager be and he is hereby authorized to enter into an agreement with Richland Engineering, Limited of Mansfield, Ohio for engineering services for the Field Survey and Base Mapping, Preliminary Development, and Final Design Contract Plans phases of the U.S. Route 20 Sewer Separation and State Route 101 Roadway Improvement Project (SAN-USR20-26.40) in the City of Clyde, as per the attached proposal, for a cost not to exceed \$128,843.00.

SECTION 2. That the expenditure of funds for such services in the amount not to exceed One Hundred Twenty Eight Thousand Eight Hundred Forty-three Dollars and Zero Cents (\$128,843.00) is hereby expressly authorized and shall be taken from the Permanent Improvement Fund.

SECTION 3. That inasmuch as the services to be performed are of a professional nature, any bidding requirements imposed by law are hereby waived.

SECTION 4. That the City Manager is further authorized to execute any change and/or additional work orders by agreed upon pricing by the City of Clyde and Richland Engineering, Limited.

SECTION 5. That this Ordinance shall be in effect on and after its passage at the earliest period allowed by law.

PASSED: 1-19-16

ATTEST: Janet R. Dickman
Clerk of Council

Vice-Mayor Kenn O'Neil

APPROVED AS TO FORM:

Zachary J. Selvey
Zachary J. Selvey, Solicitor

PROPOSAL FOR CONSULTING SERVICES

CITY OF CLYDE

SAN-USR20-26.40

**USR 20 SEWER SEPARATION AND SR 101 ROADWAY IMPROVEMENTS
FINAL DEVELOPMENT**

December 10, 2015

RICHLAND ENGINEERING LIMITED

Table of Contents

<u>Description</u>	<u>Sheet No.</u>
Letter of Transmittal	---
Table of Contents	---
Proposal Cost Summary.....	1
Proposed Labor Rates	4
Project Narrative	8

	A	B	C	D	E	F	G	H	I	J	
1	PROPOSAL COST SUMMARY										
2											
3											
4	C/R/S :	SAN-USR20-26.40 Storm Sewer and Roadway Improvements									
5							Overhead Percentage =			158.00%	
6	PID NO.:										
7							Net Fee Percentage =			11.00%	
8	CONSULTANT:	Richland Engineering Limited									
9											
10	DATE:	December 18, 2015									
11											
12											
13	Task		Hourly	Total	Direct	Overhead	Direct	Subcon.	Net	Total	
14	Description		Rate	Hours	Labor	Costs	Costs	Costs	Fee	Cost	
15	Phase 1 - Field Survey and Base Mapping										
16	Field Survey (2 person crew)										
17	Research and Data Collection		\$38.08	12	\$457	\$722	\$0	\$0	\$130	\$1,309	
18	Iron Pin & Property Lines		\$26.69	32	\$854	\$1,349	\$0	\$0	\$242	\$2,445	
19	Existing/Proposed Control		\$20.81	16	\$333	\$526	\$0	\$0	\$94	\$953	
20	Topo Identification		\$20.79	24	\$499	\$788	\$675	\$0	\$142	\$2,104	
21	Cross Sections - USR 20		\$20.81	32	\$666	\$1,052	\$0	\$0	\$189	\$1,907	
22	Cross Sections - SR 101		\$20.79	24	\$499	\$788	\$0	\$0	\$142	\$1,429	
23	Drainage Survey		\$20.81	32	\$666	\$1,052	\$0	\$0	\$189	\$1,907	
24	Locate Utilities		\$22.38	24	\$537	\$848	\$0	\$0	\$152	\$1,537	
25	Bench Marks		\$20.75	8	\$166	\$262	\$0	\$0	\$47	\$475	
26											
27	Download Data, Computer File -ODOT info		\$44.38	8	\$355	\$561	\$0	\$0	\$101	\$1,017	
28	Survey Calculations & C/L Location		\$34.94	32	\$1,118	\$1,766	\$0	\$0	\$317	\$3,201	
29	Field Survey (2 person crew) Subtotal		\$25.20	244	\$6,150	\$9,714	\$675	\$0	\$1,745	\$18,284	
30			Avg. Rate								
31											
32	Computer Aided Drafting										
33	Point Plot		\$31.67	3	\$95	\$150	\$0	\$0	\$27	\$272	
34	Develop Existing Plan & Contours		\$31.83	6	\$191	\$302	\$0	\$0	\$54	\$547	
35	Add Utilities, Water, Sewer		\$29.30	10	\$293	\$463	\$0	\$0	\$83	\$839	
36	Develop Cross Sections		\$31.67	3	\$95	\$150	\$0	\$0	\$27	\$272	
37	Computer Aided Drafting Subtotal		\$30.64	22	\$674	\$1,065	\$0	\$0	\$191	\$1,930	
38			Avg. Rate								
39											
40	Phase 1 - Field Survey and Base Mapping										
41			Total								
42			\$25.65	266	\$6,824	\$10,779	\$675	\$0	\$1,936	\$20,214	
43			Avg. Rate								

	A	B	C	D	E	F	G	H	I	J	
1	PROPOSAL COST SUMMARY										
2											
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4	C/R/S :	SAN-USR20-26.40 Storm Sewer and Roadway Improvements									
5							Overhead Percentage =			158.00%	
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9											
10	DATE:	December 18, 2015									
11											
12											
13	Task		Hourly	Total	Direct	Overhead	Direct	Subcon.	Net	Total	
14	Description		Rate	Hours	Labor	Costs	Costs	Costs	Fee	Cost	
44	Phase 2 - Preliminary Development										
45	Preliminary Roadway Plans										
46	Site Visit		\$44.33	6	\$266	\$420	\$240	\$0	\$75	\$1,001	
47	Title Sheet		\$35.00	2	\$70	\$111	\$0	\$0	\$20	\$201	
48	ODOT Scoping Coordination		\$53.46	13	\$695	\$1,098	\$0	\$0	\$197	\$1,990	
49	Typical Sections		\$33.10	10	\$331	\$523	\$0	\$0	\$94	\$948	
50	Preliminary Design		\$38.29	42	\$1,608	\$2,541	\$0	\$0	\$456	\$4,605	
51	Plan & Profile (5 sheets)		\$33.61	56	\$1,882	\$2,974	\$0	\$0	\$534	\$5,390	
52	Cross Sections (Roadway 12 sheets)		\$34.95	64	\$2,237	\$3,534	\$0	\$0	\$635	\$6,406	
53	Limited Storm Sewer Hydraulics		\$41.29	68	\$2,808	\$4,437	\$0	\$0	\$797	\$8,042	
54	Storm Sewer Details		\$38.40	78	\$2,995	\$4,732	\$0	\$0	\$850	\$8,577	
55	Utility Coordination		\$40.13	16	\$642	\$1,014	\$0	\$0	\$182	\$1,838	
56	CE plan information - for ODOT		\$43.00	11	\$473	\$747	\$0	\$0	\$134	\$1,354	
57	Purpose & Need Statement		\$44.50	2	\$89	\$141	\$0	\$0	\$25	\$255	
58	Coordination with ODOT		\$52.58	24	\$1,262	\$1,994	\$0	\$0	\$358	\$3,614	
59	Preliminary Cost Estimate		\$45.76	17	\$778	\$1,229	\$0	\$0	\$221	\$2,228	
60	Preliminary Design Submission & Revisions		\$35.94	33	\$1,186	\$1,874	\$0	\$0	\$337	\$3,397	
61	Preliminary Roadway Plans Subtotal		\$39.19	442	\$17,322	\$27,369	\$240	\$0	\$4,915	\$49,846	
62			Avg. Rate								
63											
64											
65	Phase 2 - Preliminary Development										
66	Total		\$39.19	442	\$17,322	\$27,369	\$240	\$0	\$4,915	\$49,846	
67			Avg. Rate								
68											

	A	B	C	D	E	F	G	H	I	J	
1	PROPOSAL COST SUMMARY										
2											
3											
4	C/R/S :	SAN-USR20-26.40 Storm Sewer and Roadway Improvements									
5								Overhead Percentage =		158.00%	
6	PID NO.:										
7								Net Fee Percentage =		11.00%	
8	CONSULTANT:	Richland Engineering Limited									
9											
10	DATE:	December 18, 2015									
11											
12											
13	Task		Hourly	Total	Direct						
14	Description		Rate	Hours	Labor	Overhead	Direct	Subcon.	Net	Total	
					Costs	Costs	Costs	Costs	Fee	Cost	
69	Phase 3 - Final Design Contract Plans										
70	Roadway Plans										
71	Complete Title Sheet		\$35.00	2	\$70	\$111	\$0	\$0	\$20	\$201	
72	Complete Typical Sections		\$35.00	4	\$140	\$221	\$0	\$0	\$40	\$401	
73											
74	General Notes		\$35.00	6	\$210	\$332	\$0	\$0	\$60	\$602	
75	General Summary, Calculations		\$38.08	24	\$914	\$1,444	\$0	\$0	\$259	\$2,617	
76	Complete Plan & Profile (5 sheets)		\$35.92	66	\$2,371	\$3,746	\$0	\$0	\$673	\$6,790	
77	Cross Sections (Roadway 12 sheets)		\$34.95	80	\$2,796	\$4,418	\$0	\$0	\$794	\$8,008	
78	Complete Limited Storm Sewer Hydraulics		\$41.25	48	\$1,980	\$3,128	\$0	\$0	\$562	\$5,670	
79	Incorporate Storm Sewer Details		\$36.84	74	\$2,726	\$4,307	\$0	\$0	\$774	\$7,807	
80	MOT Notes and Details		\$35.64	76	\$2,709	\$4,280	\$0	\$0	\$769	\$7,758	
81	Utility Coordination		\$41.40	10	\$414	\$654	\$0	\$0	\$117	\$1,185	
82	Construction Cost Estimate		\$44.42	12	\$533	\$842	\$0	\$0	\$151	\$1,526	
83											
84	Coordination with ODOT		\$38.53	36	\$1,387	\$2,191	\$0	\$0	\$394	\$3,972	
85	Review Submissions & Revisions		\$36.85	34	\$1,253	\$1,980	\$0	\$0	\$356	\$3,589	
86	Final Tracing Submission- ODOT let		\$38.52	54	\$2,080	\$3,286	\$0	\$0	\$590	\$5,956	
87	Pre-Bid		\$52.39	18	\$943	\$1,490	\$0	\$0	\$268	\$2,701	
88											
88		Roadway Plans Subtotal	\$37.73	544	\$20,526	\$32,430	\$0	\$0	\$5,827	\$58,783	
89			Avg. Rate								
90											
91	Phase 3 - Final Design Contract Plans										
92		Total	\$37.73	544	\$20,526	\$32,430	\$0	\$0	\$5,827	\$58,783	
93			Avg. Rate								
94											
95											
96	MAXIMUM ALL PARTS OF PROJECT		\$35.68	1,252	\$44,672	\$70,578	\$915	\$0	\$12,678	\$128,843	
97			Avg. Rate								

	A	B	C	D	E	F	G	H
1	DETAILED BREAKDOWN OF PROPOSED TOTAL HOURS,							
2	PERSONNEL CATEGORIES, AND LABOR RATES							
3								
4	C/R/S :	SAN-USR20-26.40 Storm Sewer and Road			HOURLY RATES	2016		
5					Personnel Category	Salary Rate		
6	PID NO.:				Principal	\$67.10		
7					Engineer	\$44.40		
8	CONSULTANT:	Richland Engineering Limited			Draft/Tech	\$25.50		
9					Surveyor	\$20.80		
10	DATE:	December 18, 2015						
11								
12		HOURS BY PERSONNEL CATEGORY						
13	Task				Draft/		Total	Labor
14	Description	Principal	Engineer	Tech	Surveyor	Hours	Costs	
15	Phase 1 - Field Survey and Base Mapping							
16	Field Survey (2 person crew)							
17	Research and Data Collection	0	8	4	0	12	\$457	
18	Iron Pin & Property Lines	0	8	0	24	32	\$854	
19	Existing/Proposed Control	0	0	0	16	16	\$333	
20	Topo Identification	0	0	0	24	24	\$499	
21	Cross Sections - USR 20	0	0	0	32	32	\$666	
22	Cross Sections - SR 101	0	0	0	24	24	\$499	
23	Drainage Survey	0	0	0	32	32	\$666	
24	Locate Utilities	0	0	8	16	24	\$537	
25	Bench Marks	0	0	0	8	8	\$166	
26								
27	Download Data, Computer File -ODOT info	0	8	0	0	8	\$355	
28	Survey Calculations & C/L Location	0	16	16	0	32	\$1,118	
29	Field Survey (2 person crew)	Subtotal	0	40	28	176	244	\$6,150
30								
31								
32	Computer Aided Drafting							
33	Point Plot	0	1	2	0	3	\$95	
34	Develop Existing Plan & Contours	0	2	4	0	6	\$191	
35	Add Utilities, Water, Sewer	0	2	8	0	10	\$293	
36	Develop Cross Sections	0	1	2	0	3	\$95	
37	Computer Aided Drafting	Subtotal	0	6	16	0	22	\$674
38								
39								
40	Phase 1 - Field Survey and Base Mapping							
41	Total	0	46	44	176	266	\$6,824	
42								
43								

	A	B	C	D	E	F	G	H
1	DETAILED BREAKDOWN OF PROPOSED TOTAL HOURS,							
2	PERSONNEL CATEGORIES, AND LABOR RATES							
3								
4	C/R/S :	SAN-USR20-26.40 Storm Sewer and Road			HOURLY RATES		2016	
5						<u>Personnel Category</u>	<u>Salary Rate</u>	
6	PID NO.:					Principal	\$67.10	
7						Engineer	\$44.40	
8	CONSULTANT:	Richland Engineering Limited				Draft/Tech	\$25.50	
9						Surveyor	\$20.80	
10	DATE:	December 18, 2015						
11								
12		HOURS BY PERSONNEL CATEGORY						
13	Task					Draft/	Total	Labor
14	Description	Principal	Engineer	Tech	Surveyor		Hours	Costs
44	Phase 2 - Preliminary Development							
45	Preliminary Roadway Plans							
46	Site Visit	0	6	0	0		6	\$266
47	Title Sheet	0	1	1	0		2	\$70
48	ODOT Scoping Coordination	6	6	1	0		13	\$695
49	Typical Sections	0	4	6	0		10	\$331
50	Preliminary Design	2	24	16	0		42	\$1,608
51	Plan & Profile (5 sheets)	0	24	32	0		56	\$1,882
52	Cross Sections (Roadway 12 sheets)	0	32	32	0		64	\$2,237
53	Limited Storm Sewer Hydraulics	4	48	16	0		68	\$2,808
54	Storm Sewer Details	6	40	32	0		78	\$2,995
55	Utility Coordination	2	8	6	0		16	\$642
56	CE plan information - for ODOT	1	8	2	0		11	\$473
57	Purpose & Need Statement	0	2	0	0		2	\$89
58	Coordination with ODOT	12	8	4	0		24	\$1,262
59	Preliminary Cost Estimate	1	16	0	0		17	\$778
60	Preliminary Design Submission & Revisions	1	16	16	0		33	\$1,186
61	Preliminary Roadway Plans	Subtotal	35	243	164	0	442	\$17,322
62								
63								
64								
65	Phase 2 - Preliminary Development							
66		Total	35	243	164	0	442	\$17,322
67								
68								

	A	B	C	D	E	F	G	H
1	DETAILED BREAKDOWN OF PROPOSED TOTAL HOURS,							
2	PERSONNEL CATEGORIES, AND LABOR RATES							
3								
4	C/R/S :	SAN-USR20-26.40 Storm Sewer and Road			HOURLY RATES	2016		
5					<u>Personnel Category</u>	<u>Salary Rate</u>		
6	PID NO.:				Principal	\$67.10		
7					Engineer	\$44.40		
8	CONSULTANT:	Richland Engineering Limited			Draft/Tech	\$25.50		
9					Surveyor	\$20.80		
10	DATE:	December 18, 2015						
11								
12		HOURS BY PERSONNEL CATEGORY						
13	Task				Draft/		Total	Labor
14	Description	Principal	Engineer	Tech	Surveyor	Hours	Costs	
69	Phase 3 - Final Design Contract Plans							
70	Roadway Plans							
71	Complete Title Sheet	0	1	1	0	2	\$70	
72	Complete Typical Sections	0	2	2	0	4	\$140	
73								
74	General Notes	0	3	3	0	6	\$210	
75	General Summary, Calculations	0	16	8	0	24	\$914	
76	Complete Plan & Profile (5 sheets)	2	32	32	0	66	\$2,371	
77	Cross Sections (Roadway 12 sheets)	0	40	40	0	80	\$2,796	
78	Complete Limited Storm Sewer Hydraulics	0	40	8	0	48	\$1,980	
79	Incorporate Storm Sewer Details	2	40	32	0	74	\$2,726	
80	MOT Notes and Details	4	32	40	0	76	\$2,709	
81	Utility Coordination	2	4	4	0	10	\$414	
82	Construction Cost Estimate	0	12	0	0	12	\$533	
83								
84	Coordination with ODOT	4	16	16	0	36	\$1,387	
85	Review Submissions & Revisions	2	16	16	0	34	\$1,253	
86	Final Tracing Submission- ODOT let	6	24	24	0	54	\$2,080	
87	Pre-Bid	8	8	2	0	18	\$943	
88								
89								
90								
91	Phase 3 - Final Design Contract Plans							
92								
93								
94								
95								
96	MAXIMUM ALL PARTS OF PROJECT	65	575	436	176	1,252	\$44,672	
97								

	A	B	C
1	DETAILED BREAKDOWN OF DIRECT COSTS		
2			
3			
4	C/R/S :	SAN-USR20-26.40 Storm Sewer and Roadway Improvements	
5			
6	PID NO.:		
7			
8	CONSULTANT:	Richland Engineering Limited	
9			
10	DATE:	December 18, 2015	
11			
12		<u>DIRECT COSTS</u>	
13			
14			
15			
16			
17	Field Survey (2 person crew)		
18	<u>Mileage</u>		
19	To/From Site	120 miles/trip * 10 trips * \$0.5/mile =	\$600
20	On Site	5 miles/day * 10 days * \$0.5/mile =	\$25
21	Total Mileage		\$625
22			
23	<u>Consumables</u>	Hubs, lath, paint, rebar.	\$50
24			
25	Field Survey (2 person crew)	Total	\$675
26			
27	Roadway Plans		
28	<u>Mileage</u>		
29	Site Visit	120 miles/trip * 2 trips * \$0.5/mile =	\$120
30	Project Meeting	120 miles/trip * 2 trips * \$0.5/mile =	\$120
31			
32			
33	Roadway Plans	Total	\$240
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			

PROJECT NARRATIVE

City of Clyde

SAN-USR20-26.40

USR 20 Sewer Separation and SR 101 Roadway Improvements

Richland Engineering Limited

Project Description

The project will include preliminary development and preparation of construction contract plans for storm sewer installation on US Route 20 from Main Street to the Sunrise railroad spur and from the Sunrise railroad spur to East Street to separate storm water from the sanitary sewer; and State Route 101 roadway improvements from US Route 20 to the Sunrise railroad spur to maintain the roadway in a serviceable condition in the City of Clyde. The proposed work will furnish engineering and surveying services to prepare construction contract plans for the improvements. The work is planned within the existing roadway right of way.

The City of Clyde anticipates obtaining funding assistance from ODOT to construct the proposed improvements. The roadway design and plans will be prepared in accordance with City and ODOT Standards. The proposed roadway improvements consist of constructing a new storm sewer parallel to the existing combined sewer under US Route 20 with minimal roadway improvements. The proposed project work will be from approximately 100 feet west of Main Street to approximately 100 feet east of East Street. No work will occur at the Sunrise railroad spur crossing with US Route 20. The project will also include roadway reconstruction of approximately 350 feet of State Route 101 from US Route 20 to the Sunrise railroad spur. The US Route 20 and the State Route 101 roadway horizontal and vertical alignment will be the same as the existing alignment and profile grade. The proposed storm sewer improvements will outlet into existing drainage structures located near the Main Street intersection and the East Street intersection. No water work and sanitary work will be included in the plans.

No new roadway right of way is anticipated for the proposed improvements. No right of way plan preparation is included in the fee proposal. No Right of Way acquisition services are included in the proposal. No environmental studies/permitting is included in the proposal. No geotechnical investigation is included in the proposal. REL will coordinate with the ODOT District Environmental Coordinator during project development to provide information to ODOT to prepare the categorical exclusion and the purpose and need statement under a separate part of the proposal to be authorized for project development. No railroad coordination or railroad agreement preparation is included in the proposal.

Federal and local funds are anticipated to be used for construction. The project is being administered by ODOT in anticipation of being an ODOT-let LPA project. It is anticipated that ODOT will bid and award the construction project. It is anticipated that ODOT will review the plans, specifications,

and engineers estimate. The work is to be performed in phases and parts as authorized by the City, and as described below:

Scope of Work

Phase 1 – Field Survey and Base Mapping consists of furnishing field survey work of the existing condition; establishing the existing right of way, and the preparation of base mapping to utilize for plan preparation. Field survey work will establish horizontal and vertical control points; and locate the existing roadway right of way of US Route 20 and State Route 101. Field survey work will cover about 1500 feet along the south side of US Route 20 from approximately 100 feet west of Main Street to approximately 100 east of East Street. Field survey work will also cover about 500 feet of State Route 101 from US Route 20 to the Sunrise railroad spur. The field survey work will include locating existing roadway and property monuments; existing US Route 20 cross sections (south side only); existing State Route 101 cross sections; drainage survey; contours; OUPS delineated utility locations; topographic features including outline of trees, signs, water work appurtenances, sanitary sewer appurtenances; house numbers; and private drive locations. Reference points and benchmarks will be established. Information regarding the existing sanitary sewer lateral locations and the existing storm sewer system will be obtained from the City. Right of way entry letters will be prepared and provided to the City to mail to the adjacent property owners. The field survey basemap will be supplemented with information from the City GIS information, statewide aerial mapping, and available parcel information from Sandusky County. No tree clearing will be performed to obtain the field survey data. No subsurface utility engineering (SUE) work is included.

Existing utilities in the area of the project will be shown on the plans as identified by utility owners.

Phase 2 - Preliminary Development consists of coordination with ODOT, design and preliminary plans, providing plan information for use by ODOT for their use to prepare an ODOT categorical exclusion, Purpose and Need documentation, and coordination with the ODOT District personnel. Preliminary plans include title sheet; plan view for US Route 20; line, grade and typical section for State Route 101; and storm sewer details type, size and location. The proposed roadway design elements will be verified for compliance to normal design criteria. No design exception preparation is included in the proposal.

The existing combined sewer runs along the south side of the existing US Route 20 roadway. The existing US Route 20 roadway has a level profile grade. The proposed storm sewer under the south side of US Route 20 will be on a similar alignment parallel to the existing combined sewer location and outlet into the existing drainage structures at Main Street and at East Street. The proposed roadway vertical alignment for State Route 101 will be similar to the existing profile grade. The proposed storm sewer will generally follow a similar grade as the existing combined sewer. The cross slope on State Route 101 will be evaluated to try to address the drainage concern indicated by the City at the adjacent business.

The proposed storm sewer will initially be evaluated in accordance with the ODOT hydraulic design guidelines through the project location. It is anticipated the existing outlet structure and existing conduit size at Main Street and at East Street will need to be considered for the determination of the

proposed storm sewer conduit size. No extensive watershed analysis will be performed. This storm sewer evaluation data will be compiled and reviewed with the City to determine the size of the proposed storm sewer conduit installed for the sewer separation. An open cut with phased construction installation option will be considered. Roadway pavement work on US Route 20 will be limited to repair of the roadway over the conduit trench only. No detailed hydraulic analysis of the upstream or downstream storm sewer system or sanitary sewer system will be performed due to the limited scope of the sewer separation project. No PCSWM analysis or implementation is included in the fee proposal.

Maintenance of traffic during construction will be evaluated for staged construction closing one lane of a multi lane US Route 20 facility to minimize disruption to the traveling public. Part width phased construction will be evaluated for State Route 101. Notes and details referencing the ODOT Standard Construction Drawings will be included in the plans.

No utility relocation plans will be provided and is not included in the proposal. Early utility coordination will be conducted and documented. The proposed improvements will need to consider potential impacts to utilities especially the sanitary sewers, water lines, and gas lines. Overhead utility lines, poles, and street lights may need to be relocated by others to construct the improvements.

The plan format will be based on general practice established in ODOT's design and plan preparation manuals. Plans will be prepared in English measurements at appropriate scales to delineate the proposed work. Plans will be prepared using computer aided drafting.

An ODOT Stage 2 (Line, Grade, and Typical Section) set of plans depicting the proposed work and an opinion of probable construction cost will be provided to the City and ODOT for review. No preparation of a design exception document is anticipated and is not included in the proposal.

Phase 3 - Final Design Contract Plans consists of preparation of contract plans and specifications for the sewer separation as determined by the preliminary design; and minimal US Route 20 roadway improvement work. The State Route 101 pavement will be replaced with full depth concrete pavement and curb as requested by the City. The construction contract plan work includes preparation of detailed plans and estimated quantities for maintaining traffic, roadway, pavement, drainage, erosion control, and traffic control.

The proposed improvement work will be developed to be constructed inside the existing roadway right of way. Private right of way encroachments in the existing right of way will be identified in the area of the improvements for the City to obtain removal of the items from the existing right of way. No proposed right of way plan development is included in the fee proposal. No Right of Way acquisition services is included in the proposal.

Environmental Coordination consists of coordinating with ODOT. No environmental permit preparation or studies is included in the proposal.

A Stage 3 final plan submission will be prepared for City/ODOT review after receiving comments on the Stage 2 submission. The Stage 3 submission will include final detailed plans, quantities, and an opinion of probable construction cost.

Information will be submitted to ODOT for use in preparing an OEPA Notice of Intent (NOI).

Final construction contract plans and a final opinion of probable construction cost will be submitted to the City to obtain ODOT PS&E approval to advertise and receive construction bids. REL will assist the City with prebid questions assuming the project is an ODOT-Let LPA project. A complete final plan set will be sent to the utilities within the project area prior to the PS&E submission. No construction services or construction surveying is included in the proposal.

Engineering Fee

Phase 1 – Field Survey and Base Mapping - A Total Lump Sum Fee of \$20,214.00.

Phase 2 - Preliminary Development - A Total Lump Sum Fee of \$49,846.00.

Phase 3 - Final Design Contract Plans - A Total Lump Sum Fee of \$58,783.00.

The maximum proposed fee for all parts of development is \$128,843.00.