



City of Grand Island

Tuesday, February 9, 2021

Council Session

Item G-4

**#2021-22 - Approving Certificate of Final Completion for
Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1**

Staff Contact: John Collins, P.E. - Public Works Director

Council Agenda Memo

From: Keith Kurz PE, Assistant Public Works Director

Meeting: February 9, 2021

Subject: Approving Certificate of Final Completion for Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1

Presenter(s): John Collins PE, Public Works Director

Background

The Diamond Engineering Company of Grand Island, Nebraska was awarded a \$1,794,404.38 contract for construction of Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1 on August 28, 2018 via Resolution No. 2018-252.

On August 27, 2019, via Resolution No. 2019-258, City Council approved Change Order No. 1 to provide a time extension for substantial completion from August 1, 2019 to November 12, 2019, with final completion from September 30, 2019 to January 7, 2020 with no contract amount modification.

On November 12, 2019, via Resolution No. 2019-339, City Council approved Change Order No. 2, which allowed for both a time extension and additional work necessary to complete the project. The time extension authorized substantial completion from November 12, 2019 to May 1, 2020, with final completion from January 7, 2020 to May 15, 2020. The additional work allowed for the refeed of underpass lighting and installation of a new electrical service, along with additional concrete repair and lowering of a gas main due to a storm sewer conflict in the amount of \$74,820.00, resulting in a revised contract amount of \$1,869,224.38.

The Sycamore Street Underpass was built in 1950 and an engineering analysis identified a number of repairs and replacements necessary to preserve the structure. This included a number of issues related to the retaining walls, the South Front Street Bridge, and the storm sewer pumping system.

Work commenced on November 7, 2018 and was completed on August 17, 2020.

Discussion

The project was completed in accordance with the terms, conditions, and stipulations of the contract, plans and specifications. Construction was completed with an underrun of \$79,395.55, for a total cost of \$1,789,828.83. The underrun on this project was due to the reduced amount of traffic control necessary, as well as the additional North Front Street Bridge deck repair not being needed, which was approved in Change Order No. 2. Additional project costs are shown below.

ADDITIONAL COSTS

Olsson, Inc.- Structural Observation	\$ 3,618.81
Public Works- Engineering	\$ 26,781.64
Alfred Benesch- Engineering	\$ 551,832.08
Grand Island Independent- Advertising	\$ 125.07
Pedro Rivera Hernandez- Structural Inspection	\$ 1,000.00
B2 Environmental- Lead Based Paint Assessment	\$ 550.00

Additional Costs = \$ 583,907.60

Total project costs equate to \$2,373,736.43.

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

Recommendation

City Administration recommends that the Council approve the Certificate of Final Completion for Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1.

Sample Motion

Move to approve the Certificate of Final Completion.

ENGINEER'S CERTIFICATE OF FINAL COMPLETION

Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1
CITY OF GRAND ISLAND, NEBRASKA
February 9, 2021

TO THE MEMBERS OF THE COUNCIL
CITY OF GRAND ISLAND
GRAND ISLAND, NEBRASKA

This is to certify that Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1 has been fully completed by The Diamond Engineering Company of Grand Island, Nebraska under the contract awarded August 28, 2018. The work has been completed in accordance with the terms, conditions, and stipulations of said contract and complies with the contract, the plans and specifications. The work is hereby accepted for the City of Grand Island, Nebraska, by me as Public Works Director in accordance with the provisions of Section 16-650 R.R.S., 1943.

Item No.	Description	Total Quantity	Unit	Unit Price	Total Cost
Base Bid Section					
1	Site Preparation & Mobilization	1.00	LS	\$ 27,724.74	\$ 27,724.74
2	Dewatering	1.00	LS	\$ 27,935.03	\$ 27,935.03
3	Remove Existing Bridge Structure	1.00	LS	\$ 31,988.96	\$ 31,988.96
4	Saw Cut Pavement	252.00	LF	\$ 3.15	\$ 793.80
5	Remove Existing Pavement	4,928.00	SY	\$ 3.52	\$ 17,346.56
6	Remove Existing Curb Inlet	1.00	EA	\$ 440.59	\$ 440.59
7	Remove Existing Manhole	4.00	EA	\$ 737.13	\$ 2,948.52
8	Remove Existing Storm Sewer Pipe	55.00	LF	\$ 25.32	\$ 1,392.60
9	Remove Existing 6" Water Main	120.00	LF	\$ 21.70	\$ 2,604.00
10	Adjust Valve to Grade	2.00	EA	\$ 393.54	\$ 787.08
11	Adjust Monitoring Well to Grade	1.00	EA	\$ 603.54	\$ 603.54
12	Excavation	134.00	CY	\$ 13.75	\$ 1,842.50
13	Excavation for Structures	1,200.00	CY	\$ 7.16	\$ 8,592.00
14	Over Excavation	0.00	CY	\$ 21.64	\$ -
15	Embankment	0.00	CY	\$ 12.82	\$ -
16	Controlled Earth Embankment	20.00	CY	\$ 16.77	\$ 335.40
17	Sand Gravel Backfill	1,000.00	CY	\$ 18.36	\$ 18,360.00
18	Temporary Crushed Rock Surfacing	0.00	SY	\$ 18.56	\$ -
19	7" Portland Cement Concrete Pavement	1,415.00	SY	\$ 42.76	\$ 60,505.40
20	9" Portland Cement Concrete Pavement	78.00	SY	\$ 53.41	\$ 4,165.98
21	9" Portland Cement Concrete Pavement with Integral Curb	2,647.00	SY	\$ 47.93	\$ 126,870.71
22	5" Concrete Sidewalk	6,555.00	SF	\$ 6.48	\$ 42,476.40
23	Detectable Warning Panel	84.00	SF	\$ 29.83	\$ 2,505.72
24	Sidewalk Chase	0.00	LF	\$ 268.74	\$ -
25	Pavement Marking, 4" Yellow	1,840.00	LF	\$ 4.54	\$ 8,353.60
26	Tap Existing Storm Drain Structure	2.00	EA	\$ 1,359.82	\$ 2,719.64
27	4" PVC Tee	1.00	EA	\$ 325.36	\$ 325.36
28	12" x 6" PVC Tee	4.00	EA	\$ 494.29	\$ 1,977.16
29	12" PVC Tee Cap	1.00	EA	\$ 364.34	\$ 364.34
30	12" x 45 Deg. PVC Bend	1.00	EA	\$ 392.59	\$ 392.59
31	8" x 22.5 Deg. Bend, M.J.	2.00	EA	\$ 336.09	\$ 672.18
32	4" Perforated PVC (Contech A2000 or Equal)	106.00	LF	\$ 14.68	\$ 1,556.08
33	4" PVC (Contech A2000 or Equal)	6.00	LF	\$ 62.13	\$ 372.78
34	6" PVC (Contech A2000 or Equal)	24.00	LF	\$ 64.28	\$ 1,542.72
35	12" PVC (Contech A2000 or Equal)	120.00	LF	\$ 38.27	\$ 4,592.40
36	8" Ductile Iron Pipe Storm Drain	22.00	LF	\$ 101.79	\$ 2,239.38
37	12" RCP (Class III)	0.00	LF	\$ 49.99	\$ -
38	15" RCP (Class III)	348.00	LF	\$ 46.26	\$ 16,098.48
39	36" RCP (Class III)	0.00	LF	\$ 125.55	\$ -

40	Storm Drain Concrete Collar	3.00	EA	\$ 956.03	\$ 2,868.09
41	Storm Sewer Lift Station	1.00	LS	\$ 459,850.70	\$ 459,850.70
42	Storm Drain Manhole, Type A	2.00	EA	\$ 6,083.80	\$ 12,167.60
43	Storm Drain Manhole, Type B	1.50	EA	\$ 4,725.00	\$ 7,087.50
44	Storm Drain Manhole, Type C	1.00	EA	\$ 6,892.21	\$ 6,892.21
45	Curb Inlet	2.00	EA	\$ 2,902.12	\$ 5,804.24
46	Grate Inlet	3.00	EA	\$ 3,487.16	\$ 10,461.48
47	24" Dia. Grate Inlet (Nyoplast or Equal)	1.00	EA	\$ 2,087.48	\$ 2,087.48
48	Trench Drain (Neeah or Equal)	28.00	LF	\$ 839.70	\$ 23,511.60
49	Trench Drain (Aco Slab Drain or Equal)	28.00	LF	\$ 281.76	\$ 7,889.28
50	Field Tap Storm Drain	3.00	EA	\$ 707.98	\$ 2,123.94
51	Concrete Thrust Block	1.00	EA	\$ 427.44	\$ 427.44
52	Concrete Gravity Block	1.00	EA	\$ 427.44	\$ 427.44
53	Flowable Fill	4.00	CY	\$ 347.21	\$ 1,388.84
54	6" Plug with Blind Flange, M.J.	0.00	EA	\$ 254.19	\$ -
55	Bollard	5.00	EA	\$ 573.93	\$ 2,869.65
56	Stop Sign & Post	1.00	EA	\$ 226.54	\$ 226.54
57	SWPPP Reporting & Erosion Control Measures	1.00	LS	\$ 2,278.34	\$ 2,278.34
58	Sandblast & Paint Existing Pipe Railing / Lights	1.00	LS	\$ 45,361.74	\$ 45,361.74
59	Sign Day	8,565.00	EA	\$ 0.39	\$ 3,340.35
60	Barricade Sign Day	7,171.00	EA	\$ 0.87	\$ 6,238.77
61	Barricade, Type II	3,342.00	BDAY	\$ 0.87	\$ 2,907.54
62	Barricade, Type III	12,305.00	BDAY	\$ 0.50	\$ 6,152.50
63	Concrete Protection Barrier	0.00	LF	\$ 52.50	\$ -
64	Replace Existing Pipe Railing (In Kind)	90.00	LF	\$ 40.86	\$ 3,677.40
65	Retaining Wall Repair – Vertical Cracks	566.90	LF	\$ 45.75	\$ 25,935.68
66	Retaining Wall Repair – Spall	587.00	SF	\$ 87.92	\$ 51,609.04
67	Retaining Wall Repair – Breakout	1.00	SF	\$ 209.51	\$ 209.51
68	Retaining Wall Repair – Pop Out	2.50	CF	\$ 289.70	\$ 724.25
69	Retaining Wall Repair – Gouge / Pull Away	0.00	EA	\$ 851.79	\$ -
70	Retaining Wall Repair – Joint Repair	0.00	EA	\$ 915.07	\$ -
71	Underpass Lighting	1.00	LS	\$ 24,753.75	\$ 24,753.75
72	Class 47B Concrete for Bridge	374.60	CY	\$ 602.83	\$ 225,820.12
73	Epoxy Coated Reinforcing Steel	51,500.00	LB	\$ 1.46	\$ 75,190.00
74	Pedestrian Railing (Chain-Link Type)	30.00	LF	\$ 247.81	\$ 7,434.30
75	Temporary Bridge Shoring	1.00	LS	\$ 120,132.14	\$ 120,132.14
76	Bridge Deck Grooving	0.00	SY	\$ 48.49	\$ -
77	Modify Pipe Handrail	1.00	LS	\$ 1,543.96	\$ 1,543.96
78	Inlet Protection – Type 1	0.00	EA	\$ 139.71	\$ -
79	Sediment Control Log	0.00	LF	\$ 10.55	\$ -
80	Construction Entrance	0.00	EA	\$ 3,549.39	\$ -
81	SWPPP Sign	1.00	EA	\$ 753.18	\$ 753.18
82	SikaQuick Smooth Finish	26,600.00	SF	\$ 7.46	\$ 198,436.00
Total Base Bid = \$ 1,770,008.83					
Change Order No. 1					
CO1-1	Time Extension- Substantial Completion from 2019/8/1 to 2019/11/12; Final Completion from 2019/9/30 to 2020/1/7	1.00	LS	\$ -	\$ -
Total Change Order No. 1 = \$ -					
Change Order No. 2					
CO2-1	Time Extension- Substantial Completion from 2019/11/12 to 2019/5/1; Final Completion from 2020/1/7 to 2020/5/15	1.00	LS	\$ -	\$ -
CO2-2	Extra length of conduit and wiring to new pole location	1.00	LS	\$ 3,300.00	\$ 3,300.00
CO2-3	North Front Street Bridge Repair (full deck concrete repair)	0.00	LS	\$ 31,500.00	\$ -
CO2-4	Pedestrian Walkway panel repair (remove and replace)	7.00	EA	\$ 1,260.00	\$ 8,820.00
CO2-5	2" Steel Gas Main Lowering for Storm Sewer Conflict	1.00	LS	\$ 1,750.00	\$ 1,750.00
CO2-6	Window Well Sealing (123 S Front St)	10.00	EA	\$ 2,400.00	\$ 24,000.00
CO2-7	Refeed Underpass Lighting (240/120 removed & 480/277 installed)	1.00	EA	\$ 5,450.00	\$ 5,450.00
Total Change Order No. 2 = \$ 43,320.00					
Liquidated Damages for Final Completion Date (2020/5/15 to 2020/8/17)					\$ (23,500.00)

Additional Costs:

Olsson, Inc.- Structural Observation	\$ 3,618.81
Public Works- Engineering	\$ 26,781.64
Alfred Benesch- Engineering	\$ 551,832.08
Grand Island Independent- Advertising	\$ 125.07
Pedro Rivera Hernandez- Structural Inspection	\$ 1,000.00
B2 Environmental- Lead Based Paint Assessment	\$ 550.00

Additional Costs = \$583,907.60

Grand Total =	\$ 2,373,736.43
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I hereby recommend that the Engineer's Certificate of Final Completion for Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1 be approved.

John Collins – City Engineer/Public Works Director

Roger G. Steele – Mayor

RESOLUTION 2021-22

WHEREAS, the City Engineering/Public Works Director for the City of Grand Island issued a Certificate of Final Completion for Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1 certifying that The Diamond Engineering Company of Grand Island, Nebraska, under contract, has completed such project for the total construction amount of \$1,789,828.83; and

WHEREAS, the City Engineer/Public Works Director recommends the acceptance of the project; and

WHEREAS, additional project costs equate to \$583,907.60, as shown

ADDITIONAL COSTS

Olsson, Inc.- Structural Observation	\$ 3,618.81
Public Works- Engineering	\$ 26,781.64
Alfred Benesch- Engineering	\$ 551,832.08
Grand Island Independent- Advertising	\$ 125.07
Pedro Rivera Hernandez- Structural Inspection	\$ 1,000.00
B2 Environmental- Lead Based Paint Assessment	\$ 550.00

Additional Costs = \$583,907.60

WHEREAS, the Mayor concurs with the recommendation of the City Engineer/Public Works Director.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that:

1. The Certificate of Final Completion for Sycamore Street Underpass Rehabilitation; Project No. 2017-U-1, in the total amount of \$2,373,736.43 is hereby confirmed.

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Adopted by the City Council of the City of Grand Island, Nebraska, February 9, 2021.

Roger G. Steele, Mayor

Attest:

RaNae Edwards, City Clerk

Approved as to Form	☐ _____
February 5, 2021	☐ City Attorney