



## INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee  
 FROM: Bob Giberson, Public Works Director *BG*  
 BY: Steve Carstens, Senior Program Manager  
 CC: Mayor Ekberg  
 DATE: June 9, 2017  
 SUBJECT: Major Maintenance on 3 Bridges Project  
 Project No. 91510406, 91510407, and 91510408  
 Bid Award

### ISSUE

Award the construction bid to Razz Construction, Inc. (Razz) for the Major Maintenance on 3 Bridges.

### BACKGROUND

The Major Maintenance on 3 Bridges includes the Grady Way Bridge, the Beacon Ave S Bridge, and the Frank Zepp Bridge (S 180<sup>th</sup> St). Improvements include seismic retrofit (Zepp & Grady), bridge painting (Zepp & Beacon), and deck and joint repairs (Zepp & Beacon). Construction bids were originally advertised in March 2017. Only one bid was received that was significantly over the Engineer's Estimate and was subsequently rejected by Resolution No. 1907.

A second call for bids was advertised on May 3 and May 10, 2017 and two addenda were issued addressing clarifications in the bid documents. Three bids were opened on May 31, 2017 and the apparent low bidder was Razz Construction for \$2,688,958.

### DISCUSSION

The construction bids were reviewed and only one minor irregularity was found. There were no errors in the bid submitted by Razz. WSDOT concurrence is required to award the bid for a federally funded project, including a review of Disadvantaged Business Enterprise (DBE) requirements. WSDOT determined that the bidder does meet the DBE requirements and WSDOT has provided concurrence to award the bid to Razz.

Razz has been doing business since 2005 in Washington and has experience with projects of similar size and scope. Razz does not have any exceptions and has not been debarred from working on federally funded projects.

### FISCAL IMPACT

	<u>Bid Results</u>	<u>Eng Estimate</u>	<u>Budget</u>
Razz Construction	\$ 2,688,958.00	\$ 2,696,215.00	\$ 3,889,000.00
Contingency (15%)	403,343.00		
Total	<u>\$ 3,092,301.00</u>	<u>\$ 2,696,215.00</u>	<u>\$3,889,000.00</u>

### RECOMMENDATION

Council is being asked to award the bid to Razz Construction, Inc. in the amount of \$2,688,958.00 for the Major Maintenance on 3 Bridges Project and consider this item on the Consent Agenda at the June 19, 2017 Regular Meeting.

## CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2017 to 2022

**PROJECT:** **Major Maintenance on 3 Bridges 2015** 91510406  
Project Nos. 91510407  
91510408

**DESCRIPTION:** Perform Seismic Retrofit, Deck and Joint Repair, and Bridge Painting work under the Local Agency Bridge Program on the Frank Zepp Bridge, Grady Way Bridge and the Beacon Avenue South Bridge.

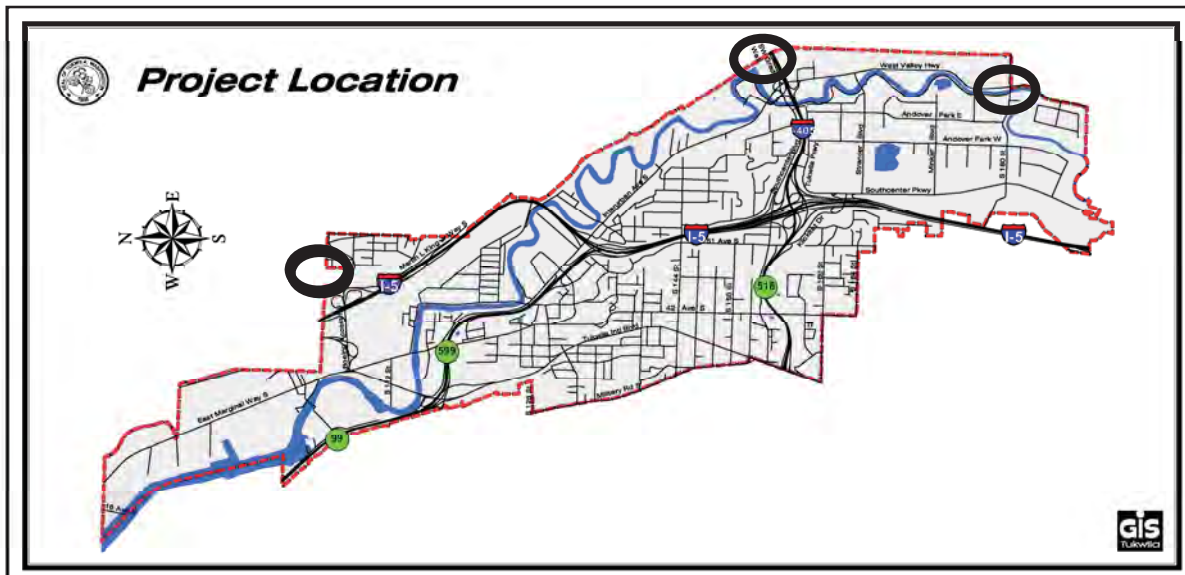
**JUSTIFICATION:** The three bridges were identified as good candidates for federal funding under the Local Agency Bridge Program administered by WSDOT. The proposed work will preserve the City owned infrastructure and extend the service lives of the bridges.

**STATUS:** Federal grant funding was approved December 2014. Council budget amendment approved 8/3/15.

**MAINT. IMPACT:** Maintenance needs will be reduced once these three major maintenance projects are completed.

**COMMENT:** The three bridges were approved for grants under separate federal aid numbers but will be combined into one for the design & construction contract. Grant funding requires a 10% match for the design phase; projects that obtain construction authorization by 9/30/18 are eligible for 100% Federal construction funding.

FINANCIAL (in \$000's)	Through 2015	Estimated 2016	2017	2018	2019	2020	2021	2022	BEYOND	TOTAL
<b>EXPENSES</b>										
Design	421	445								866
Land (R/W)										0
Const. Mgmt.			300	293						593
Construction			2,886	1,003						3,889
<b>TOTAL EXPENSES</b>	<b>421</b>	<b>445</b>	<b>3,186</b>	<b>1,296</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,348</b>
<b>FUND SOURCES</b>										
Fed BRAC Grant	379	401	3,186	1,296						5,262
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	42	44	0	0	0	0	0	0	0	86
<b>TOTAL SOURCES</b>	<b>421</b>	<b>445</b>	<b>3,186</b>	<b>1,296</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,348</b>



CITY OF TUKWILA - MAJOR MAINTENANCE OF THREE BRIDGES

FINAL BID LIST SUMMARY

May 31, 2017

SCHEDULE A - BEACON AVENUE S BRIDGE											
Item No.	Item Description	Quantity	Unit	Engineer's Estimate		Razz Construction		Road Construction Northwest, Inc.		Triton Marine Construction	
				Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost
A1	UNEXPECTED SITE CHANGES	1	FA	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
A2	RESOLUTION OF UTILITY CONFLICTS	1	FA	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
A3	SPPC PLAN	1	LS	2,000	2,000	3,000	3,000	900	900	1,200	1,200
A4	MOBILIZATION	1	LS	51,800	51,800	72,000	72,000	83,000	83,000	4,800	4,800
A5	PROJECT TEMPORARY TRAFFIC CONTROL	1	LS	45,000	45,000	30,000	30,000	37,500	37,500	20,000	20,000
A6	PEDESTRIAN TRAFFIC CONTROL	1	LS	5,000	5,000	6,000	6,000	2,200	2,200	14,300	14,300
A7	FLAGGERS, min Bid \$65.00	200	HR	65	13,000	65	13,000	65	13,000	68	13,600
A8	REMOVING ASPHALT CONC. PAVEMENT	180	SY	10	1,800	13	2,340	21	3,780	44	7,920
A9	ROADWAY EXCAVATION INCL. HAUL	75	CY	50	3,750	30	2,250	50	3,750	72	5,400
A10	CRUSHED SURFACING BASE COURSE	25	TON	60	1,500	64	1,600	70	1,750	140	3,500
A11	HMA CL 1/2 INCH PG 64-22	22	TON	200	4,400	312	6,864	440	9,680	370	8,140
A12	EROSION/WATER POLLUTION CONTROL	1	FA	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
A13	ESC LEAD	60	DAY	60	3,600	80	4,800	90	5,400	1	60
A14	STORMWATER POLLUTION PREVENTION PLAN	1	LS	2,000	2,000	3,000	3,000	900	900	8,500	8,500
A15	TYPE B PROGRESS SCHEDULE	1	LS	1,500	1,500	5,000	5,000	1,500	1,500	1	1
A16	ADA FEATURES SURVEYING	1	LS	2,000	2,000	2,000	2,000	2,000	2,000	1,400	1,400
A17	STRUCTURE SURVEYING	1	LS	5,000	5,000	5,000	5,000	3,500	3,500	6,400	6,400
A18	WORK PLATFORM AND CONTAINMENT SYSTEM	1	LS	15,000	15,000	20,000	20,000	20,000	20,000	15,000	15,000
A19	REMOVAL OF EXISTING ASPHALT AND CORRUGATED METAL DECK	1	LS	20,000	20,000	20,000	20,000	22,200	22,200	41,000	41,000
A20	EPOXY-COATED ST. REINF. BAR	14,200	LB	2	24,140	2	28,400	2	24,850	2	29,678
A21	DRILL AND EPOXY DOWELS	182	EA	65	11,830	24	4,368	115	20,930	39	7,098
A22	STRUCTURAL CARBON STEEL	1	LS	5,000	5,000	60,000	60,000	57,800	57,800	60,000	60,000
A23	CONC. CLASS 4000 FOR SIDEWALK	8	CY	850	6,800	750	6,000	730	5,840	1,600	12,800
A24	CONC. CLASS 4000 FOR BRIDGE	42	CY	1,000	42,000	900	37,800	4,000	168,000	1,400	58,800
A25	SAW-CUT EXPANSION JOINT	68	LF	85	5,780	12	816	30	2,040	57	3,876
A26	CLEANING AND PAINTING	1	LS	145,000	145,000	160,000	160,000	170,000	170,000	204,112	204,112
A27	CONTAINMENT OF ABRASIVES	1	LS	50,000	50,000	20,000	20,000	32,000	32,000	39,000	39,000
A28	TESTING AND DISPOSAL OF CONTAINMENT WASTE	1	FA	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
A29	REPAIR EXISTING STEEL BEAMS	1	FA	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
A30	CORRUGATED METAL DECKING	2,500	SF	12	30,000	17	42,500	23	57,500	15	37,500
A31	REMOVING CEMENT CONC. SIDEWALK	15	SY	25	375	35	525	50	750	130	1,950
A32	HMA SIDEWALK	12	SY	150	1,800	312	3,744	75	900	1,500	18,000
A33	ROADSIDE CLEANUP	1	FA	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
A34	PROPERTY RESTORATION	1	FA	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
<b>SCHEDULE A TOTAL BID</b>				<b>605,075</b>	<b>666,007</b>	<b>666,007</b>	<b>868,870</b>	<b>868,870</b>	<b>729,035</b>		

SCHEDULE B - SW GRADY WAY BRIDGE											
Item No.	Item Description	Quantity	Unit	Engineer's Estimate		Razz Construction		Road Construction Northwest, Inc.		Triton Marine Construction	
				Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost
B1	UNEXPECTED SITE CHANGES	1	FA	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
B2	SPPC PLAN	1	LS	1,500	1,500	3,000	3,000	900	900	1,200	1,200
B3	MOBILIZATION	1	LS	28,700	28,700	21,000	21,000	45,000	45,000	3,400	3,400
B4	PROJECT TEMPORARY TRAFFIC CONTROL	1	LS	15,000	15,000	15,000	15,000	37,500	37,500	10,000	10,000
B5	FLAGGERS, min Bid \$65.00	100	HR	65	6,500	65	6,500	65	6,500	68	6,800
B6	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1	LS	1,000	1,000	7,500	7,500	7,200	7,200	190	190
B7	EROSION/WATER POLLUTION CONTROL	1	FA	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B8	ESC LEAD	10	DAY	60	600	80	800	90	900	1	10
B9	STORMWATER POLLUTION PREVENTION PLAN	1	LS	1,500	1,500	5,000	5,000	900	900	3,500	3,500
B10	TYPE B PROGRESS SCHEDULE	1	LS	2,000	2,000	2,500	2,500	1,500	1,500	1	1
B11	CLEANING ABUTMENT BEARING SEAT	1	LS	3,000	3,000	1,000	1,000	3,000	3,000	610	610
B12	STRUCTURAL CARBON STEEL	1	LS	200,000	200,000	122,000	122,000	280,000	280,000	150,000	150,000
B13	RESIN BONDED ANCHORS	1	LS	50,000	50,000	35,000	35,000	70,000	70,000	35,000	35,000
B14	ROADSIDE CLEANUP	1	FA	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
B15	PROPERTY RESTORATION	1	FA	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
<b>SCHEDULE B TOTAL BID</b>				<b>315,300</b>	<b>224,800</b>	<b>224,800</b>	<b>458,900</b>	<b>458,900</b>	<b>216,211</b>		

**CITY OF TUKWILA - MAJOR MAINTENANCE OF THREE BRIDGES**  
**FINAL BID LIST SUMMARY**  
 May 31, 2017

**SCHEDULE C - FRANK ZEPP (S 180TH STREET)**

Item No.	Item Description	Quantity	Unit	Engineer's Estimate		Razz Construction		Road Construction Northwest, Inc.		Triton Marine Construction	
				Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost
C1	UNEXPECTED SITE CHANGES	1	FA	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
C2	RESOLUTION OF UTILITY CONFLICTS	1	FA	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
C3	REIMBURSEMENT FOR THIRD PARTY DAMAGE	1	EST	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
C4	SPEC PLAN	1	LS	10,000	10,000	3,000	3,000	1,700	1,700	1,200	1,200
C5	MOBILIZATION	1	LS	175,000	175,000	171,000	171,000	210,000	210,000	16,000	16,000
C6	FLAGGERS, min Bid \$65.00	160	HR	65	10,400	65	10,400	65	10,400	68	10,880
C7	PORTABLE ILLUMINATION	4	EA	1,350	5,400	3,000	12,000	4,500	18,000	3,300	13,200
C8	FURNISHING TC DEVICES FOR 400 FT TRANSITIONS	4	EA	1,500	6,000	1	4	2,300	9,200	23,000	92,000
C9	PORTABLE CHANGEABLE MESSAGE SIGN	4,000	HR	3	12,000	6	24,000	5	19,000	6	24,640
C10	INSTALL ALTERNATE ROUTE SIGNING	1	LS	29,250	29,250	50,000	50,000	6,000	6,000	36,000	36,000
C11	PEDESTRIAN TRAFFIC CONTROL	1	LS	1,600	1,600	5,000	5,000	4,500	4,500	21,000	21,000
C12	UNIFORMED POLICE OFFICER	50	HR	100	5,000	95	4,750	160	8,000	110	5,500
C13	TYPE 3 BARRICADE	15	EA	100	1,500	150	2,250	230	3,450	230	3,450
C14	CONSTRUCTION LIAISON	1	LS	20,000	20,000	50,000	50,000	10,000	10,000	11,000	11,000
C15	OTHER TRAFFIC CONTROL LABOR, min Bid \$60.00	25	HR	60	1,500	75	1,875	65	1,625	100	2,500
C16	SEQUENTIAL ARROW SIGN	500	HR	5	2,500	7	3,500	13	6,625	2	1,000
C17	CONSTRUCTION SIGNS CLASS A	100	SF	25	2,500	32	3,200	40	4,000	42	4,200
C18	TEMPORARY SIGNAL MODIFICATION	1	LS	11,000	11,000	10,000	10,000	45,000	45,000	50,000	50,000
C19	SIGN COVERING	420	SF	10	4,200	3	1,260	5	2,100	10	4,200
C20	CLEARING AND GRUBBING	1	LS	15,000	15,000	3,000	3,000	6,000	6,000	16,000	16,000
C21	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1	LS	20,000	20,000	10,000	10,000	3,000	3,000	46,000	46,000
C22	REMOVING ASPHALT CONC. PAVEMENT	190	SY	25	4,750	30	5,700	21	3,990	12	2,280
C23	HMA FOR APPROACH CL. 1/2 IN. PG 64-22	22	TON	150	3,300	312	6,864	330	7,260	370	8,140
C24	CRUSHED SURFACING BASE COURSE	14	CY	100	1,400	100	1,400	125	1,750	270	3,780
C25	ADJUST MANHOLE	1	EA	1,000	1,000	500	500	800	800	1,100	1,100
C26	EROSION/WATER POLLUTION CONTROL	1	FA	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
C27	HIGH VISIBILITY SILT FENCE	400	LF	5	2,000	4	1,600	4	1,600	12	4,800
C28	TYPE B PROGRESS SCHEDULE	1	LS	5,000	5,000	5,000	5,000	3,000	3,000	1	1
C29	HEALTH AND SAFETY PLAN	1	LS	10,000	10,000	5,000	5,000	900	900	5,000	5,000
C30	NO TRESPASSING SIGN	2	EA	500	1,000	150	300	700	1,400	200	400
C31	FAST-ITE CLEANUP OF BIO. AND PHYSICAL HAZARDS	1	FA	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
C32	STRUCTURE SURVEYING	1	LS	40,000	40,000	10,000	10,000	12,000	12,000	14,000	14,000
C33	STRUCTURE EXCAVATION CLASS A INCL. HAUL	86	CY	30	2,580	32	2,752	100	8,600	100	8,600
C34	WORK PLATFORM AND CONTAINMENT SYSTEM	1	LS	150,000	150,000	150,000	150,000	440,000	440,000	108,000	108,000
C35	BRIDGE APPROACH SLAB	200	SY	250	50,000	330	66,000	385	77,000	390	78,000
C36	SEISMIC RETROFIT - FRANK ZEPP	1	LS	425,000	425,000	255,000	255,000	395,000	395,000	457,726	457,726
C37	EPOXY CRACK SEALING	160	LF	60	9,600	105	16,800	110	17,600	160	25,600
C38	CONCRETE SPALL REPAIR	12	SF	500	6,000	326	3,912	325	3,900	200	2,400
C39	EXPANSION JOINT SYSTEM STRIP SEAL - SUPERSTR	1	LS	48,000	48,000	75,000	75,000	73,500	73,500	93,000	93,000
C40	EXPANSION JOINT SYSTEM COMPRESSION SEAL - SUPERSTR	1	LS	14,000	14,000	20,000	20,000	15,500	15,500	7,000	7,000
C41	CLEANING AND PAINTING RAILING	1	LS	10,000	10,000	55,000	55,000	80,500	80,500	96,000	96,000
C42	TESTING AND DISPOSAL OF CONTAMINMENT WASTE	1	FA	10,000	10,000	10,000	10,000	117,200	117,200	140,000	140,000
C43	CLEANING AND EPOXY SEALING	1	LS	220,000	220,000	60,000	60,000	117,200	117,200	140,000	140,000
C44	POLYESTER CONCRETE OVERLAY	1	LS	225,000	225,000	398,000	398,000	281,600	281,600	438,000	438,000
C45	SCARIFYING CONC. SURFACE	1,580	SY	30	47,400	77	121,660	57	89,270	80	126,400
C46	FURTHER DECK PREPARATION FOR TYPE 2 DECK REPAIR	400	SF	180	72,000	60	24,000	70	28,000	81	32,400
C47	FLEXIBLE GUIDE POST	10	EA	40	400	150	1,500	145	1,450	180	1,800
C48	PLASTIC TRAFFIC ARROW	4	EA	300	1,200	212	848	200	800	320	1,280
C49	PLASTIC TRAFFIC LETTER	8	EA	150	1,200	142	1,136	125	1,000	180	1,440
C50	PLASTIC STOP LINE	60	LF	16	960	14	840	14	855	35	2,100
C51	TEMPORARY STRIPING	1,000	LF	4	4,000	3	2,500	2	2,000	3	2,830
C52	RAISED PAVEMENT MARKER TYPE 1	4	HUND	250	1,000	500	2,000	500	2,000	640	2,560
C53	RAISED PAVEMENT MARKER TYPE 2	1	HUND	450	450	600	600	600	600	1,100	1,100
C54	ROADSIDE CLEANUP	1	FA	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000

**CITY OF TUKWILA - MAJOR MAINTENANCE OF THREE BRIDGES**  
**FINAL BID LIST SUMMARY**  
 May 31, 2017

<b>SCHEDULE C TOTAL BID</b>	<b>1,734,151</b>	<b>2,112,675</b>	<b>2,099,507</b>
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RCN's total  
 Difference due to RCN calc error for Item C19

**SCHEDULE D - FRANK ZEPP (S 180TH STREET) NON-FEDERAL PARTICIPATION**

Item No.	Item Description	Quantity	Unit	Engineer's Estimate		Razz Construction		Road Construction Northwest, Inc.		Triton Marine Construction	
				Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost
D1	MOBILIZATION	1	LS	1,000	1,000	3,000	3,000	3,300	3,300	40,000	40,000
D2	ILLUMINATION SYSTEM - TRAIL	1	LS	10,000	10,000	61,000	61,000	37,500	37,500		
<b>SCHEDULE D TOTAL BID</b>				<b>11,000</b>	<b>11,000</b>	<b>64,000</b>	<b>64,000</b>	<b>40,800</b>	<b>40,800</b>	<b>40,000</b>	<b>40,000</b>

Engineer's Estimate		Razz Construction		Road Construction Northwest, Inc.		Triton Marine Construction	
605,075	666,007	666,007	666,007	868,870	868,870	729,035	729,035
315,300	224,800	224,800	224,800	458,900	458,900	216,211	216,211
1,764,840	1,734,151	1,734,151	1,734,151	2,112,675	2,112,675	2,099,507	2,099,507
11,000	64,000	64,000	64,000	40,800	40,800	40,000	40,000
<b>2,696,215</b>	<b>2,688,958</b>	<b>2,688,958</b>	<b>2,688,958</b>	<b>3,481,245</b>	<b>3,481,245</b>	<b>3,084,754</b>	<b>3,084,754</b>

RCN's total  
 Difference due to RCN calc error for Item C19

Certified by *Richard Hovde* Date June 1, 2017  
 Richard Hovde, P.E.  
 David Evans and Associates, Inc.