



proud past, promising future

CLARK COUNTY
WASHINGTON

TO: Board of County Councilors

FROM: Michael Westerman, Purchasing Manager 

DATE: August 28, 2015

SUBJECT: Award of CRP #332822
VAST: Orchards Traffic Signal Optimization

This contract provides for the improvement of traffic signal systems at various locations in the Orchards area of Clark County, between NE 55th Avenue and NE Ward Road, by installing signal hardware, video cameras, count stations, signs and interconnection (using both new and existing conduit), and upgrading and repairing traffic detection systems.

Purchasing received three responses for the construction of the Orchards Traffic Signal Optimization. The bids were checked for accuracy, content, and compliance to specifications.

Purchasing and Public Works recommend that CRP #332822, be awarded to the low bidder, Northeast Electric, LLC of Woodland, WA, in the total bid amount of \$4,006,055.64 including Washington State Sales Tax, and grant authority to the County Manager to sign all bid related contracts.

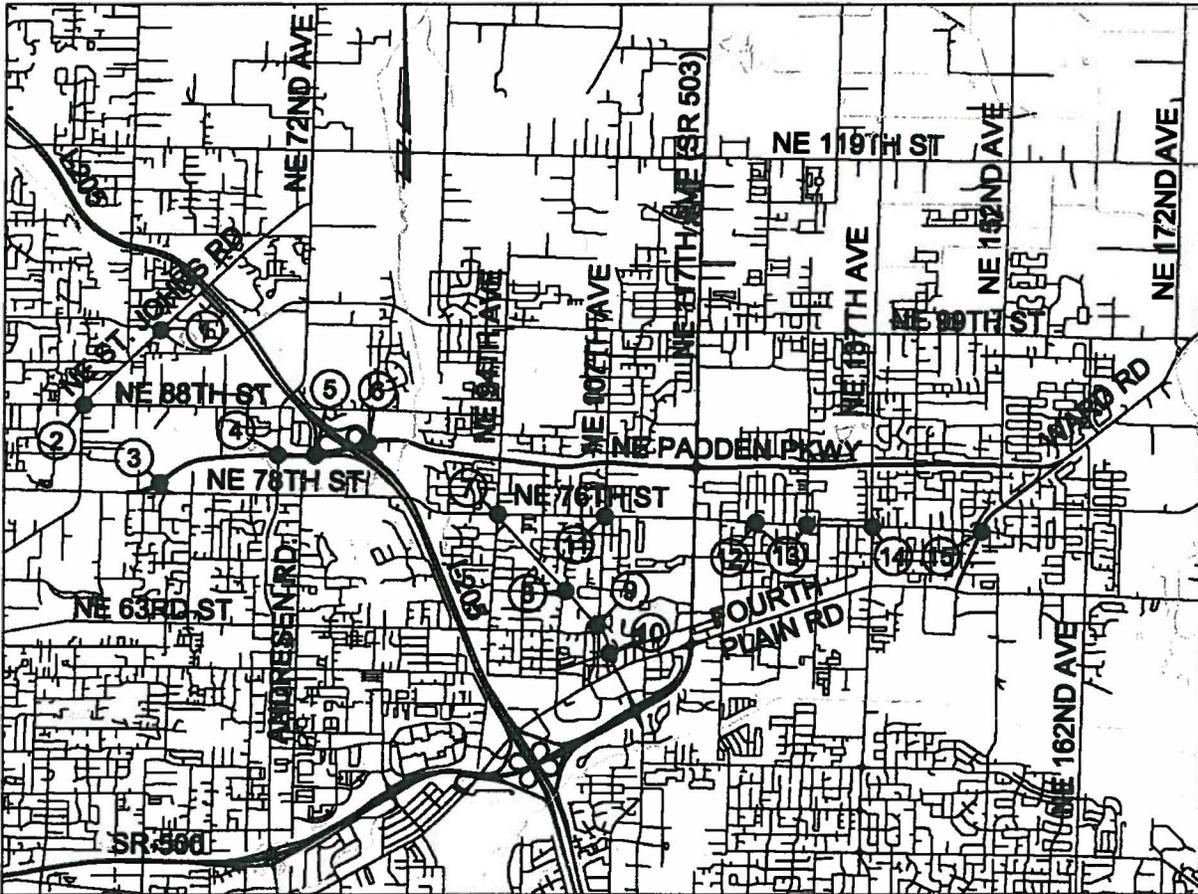


proud past, promising future

CLARK COUNTY
WASHINGTON

Department of Public Works
Engineering & Construction Division
Orchards Area Traffic Signal Optimization

CRP# 332822



- | | |
|--|------------------------------------|
| ① NE LALONDE DR. AND NE ST JOHNS ROAD | ⑫ NE 76TH STREET AND NE 124TH AVE. |
| ② NE ST JOHNS ROAD AND NE 88TH STREET | ⑬ NE 76TH STREET AND NE 130TH AVE. |
| ③ NE PADDEN PARKWAY AND NE 55TH AVENUE | ⑭ NE 76TH STREET AND NE 137TH AVE. |
| ④ NE PADDEN PARKWAY AND NE ANDRESEN ROAD | ⑮ NE 76TH STREET AND NE WARD ROAD |
| ⑤ I-205 SB RAMP | |
| ⑥ I-205 NB RAMP | |
| ⑦ NE 76TH STREET AND NE COVINGTON RD. | |
| ⑧ NE COVINGTON RD. AND NE 102ND AVE. | |
| ⑨ NE COVINGTON RD. AND NE 107TH AVE. | |
| ⑩ NE COVINGTON RD. AND NE ROSEWOOD AVE. | |
| ⑪ NE 76TH STREET AND NE 107TH AVE. | |

VOLUME 1

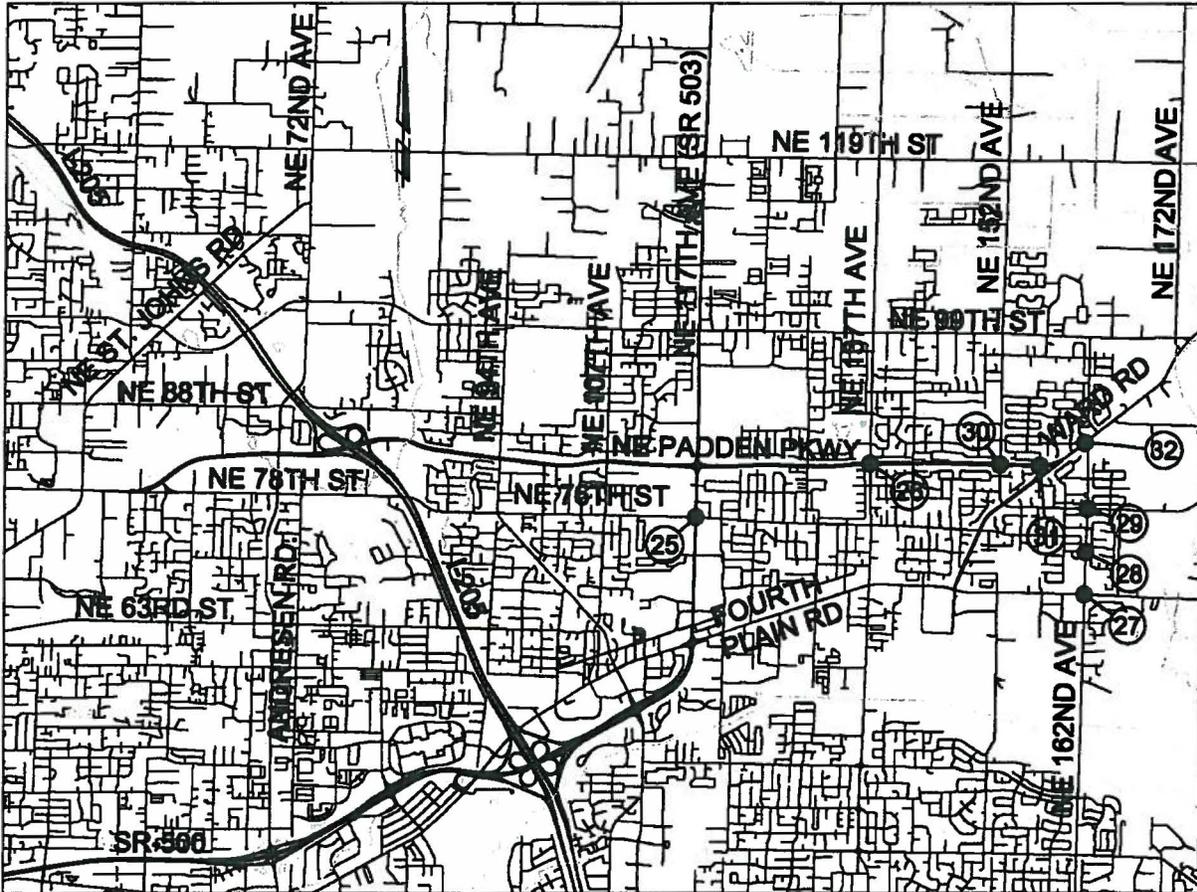
Vicinity Map



proud past, promising future

CLARK COUNTY
WASHINGTON

Department of Public Works
Engineering & Construction Division
Orchards Area Traffic Signal Optimization
CRP# 332822



- 25 NE 78TH STREET AND NE 117TH AVE.
- 27 NE PADDEN PARKWAY AND NE 137TH AVE.
- 28 NE 162ND AVE. AND NE FOURTH PLAIN RD.
- 29 NE 162ND AVE. AND NE 73RD STREET
- 30 NE 162ND AVE. AND NE 78TH STREET
- 31 NE PADDEN PARKWAY AND NE 152ND AVENUE
- 32 NE PADDEN PARKWAY AND NE WARD ROAD
- 32 NE WARD ROAD AND NE 162ND AVE-WSDOT

VOLUME 3

Vicinity Map



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CLARK COUNTY
WASHINGTON

MEMORANDUM

TO: Michael Westerman, Purchasing Manager

FROM: Gunnar Fridriksson, P.L.S., P.E., Construction Manager *DWJ*
for
Heath Henderson, P.E., Director/County Engineer

DATE: August 27, 2015

REF: VAST: Orchards Traffic Signal Optimization
NE 55th Avenue to NE Ward Road
CRP# 332822
Federal Aid # CM-9906(040)

SUBJECT: BID AWARD

This contract provides for the improvement traffic signal systems at various locations in the Orchards area of Clark County, between NE 55th Avenue and NE Ward Road, by installing signal hardware, video cameras, count stations, signs and interconnection (using both new and existing conduit), and upgrading and repairing traffic detection.

Below is a brief summary of the costs for the traffic signal optimization project:

Expenses

Preliminary Engineering	\$205,470
Right-of-Way	\$70,170
Construction Contract	\$4,006,056
Construction Engineering	\$642,720
Total Project Estimated Cost:	\$4,924,416

Budgeted Revenue

Federal Grant (CMAQ)	\$3,500,000
Washington State Department of Transportation	\$115,330
County Road Fund	\$1,309,086
Total Budgeted Revenues:	\$4,924,416



This project will provide **40** family wage jobs for the community.

The Department of Public Works has reviewed the submitted bids for the proposed construction of the above subject project.

The bids have been checked for accuracy and compliance with the bidding requirements.

Three (3) firms submitted bids in the amounts shown on the attached Tabulation of Bids and Bidders. The low bid of \$4,006,055.64 was submitted by Northeast Electric, LLC, of Woodland, WA.

We recommend that the Board of County Councilors award the contract for the construction of the Orchards Traffic Signal Optimization, from NE 55th Avenue to NE Ward Road, CRP #332822, to Northeast Electric, LLC, in the amount of \$4,006,055.64.

Attachment: 1) Tabulated Bids
2) Vicinity Map

cc w/enc: Susan Wilson - Transportation Programming Manager
Amanda Miller - Auditor/Accounting
Troy Pierce - Project Manager
Matt Hall – Project Management Manager
Tom Grange – Engineering & Construction Division Manager
Heath Henderson – Public Works Director/County Engineer
Project File – Contract
Project File – Correspondence

DATE OF BID OPENING:			DATE OF BID OPENING: August 11, 2015			Orchards Area Traffic Signal Optimization				C.R.P.# 332822			
Spec Yr: 14			PUBLIC SERVICE CENTER, SIXTH FLOOR Commissioners Hearing Room Office of Clark County Commissioners			ENGINEER'S ESTIMATE		Northeast Electric LLC 7004 Green Mtn Rd. Woodland WA 98674 (360)225-7004		Mill Plain Electric 6000 NE 88th St. STE B105 Vancouver WA 98665 (360) 574-7265		Elcon Corporation 1720 75th ST. SW Everett WA 98203 (425) 743-5600	
ITEM NO.	BID ITEM IDENT NO.	QUANTITY	BID ITEM DESCRIPTION	UNIT	UNIT PRICE	Total	UNIT PRICE	Total	UNIT PRICE	Total	UNIT PRICE	Total	

SCHEDULE 1: ORCHARDS AREA TRAFFIC SIGNAL OPTIMIZATION
Include all applicable use and/or sales taxes in the individual Unit and Lump Sum prices.

1	101.07	1	MOBILIZATION	L.S.	\$25,000	\$25,000	\$50,000.00	\$50,000.00	\$241,650.00	\$241,650.00	\$65,000.00	\$65,000.00
2	107.11	800	TRAINING	HOUR	\$25	\$20,000	\$7.00	\$5,600.00	\$5.00	\$4,000.00	\$60.00	\$48,000.00
3	105.4	1	REPLACEMENT STAKING SERVICES	HOUR	-\$100	-\$100	-\$100.00	-\$100.00	-\$100.00	-\$100.00	-\$100.00	-\$100.00
4	107.15	1	SPCC PLAN	L.S.	\$2,500	\$2,500	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00	\$3,500.00	\$3,500.00
5	108.01	1	TYPE B PROGRESS SCHEDULE(Minimum bid of \$4,000.00)	L.S.	\$4,000	\$4,000	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$4,500.00	\$4,500.00
6	110	1	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	\$25,000	\$25,000	\$75,000.00	\$75,000.00	\$118,370.00	\$118,370.00	\$149,995.00	\$149,995.00
7	110.02	1000	FLAGGERS	HOUR	\$60	\$60,000	\$51.00	\$51,000.00	\$65.00	\$65,000.00	\$65.00	\$65,000.00
8	110.04	1000	CONSTRUCTION SIGNS CLASS A	S.F.	\$10	\$10,000	\$20.00	\$20,000.00	\$17.00	\$17,000.00	\$18.00	\$18,000.00
9	110.13	1	PEDESTRIAN TRAFFIC CONTROL(Minimum bid of \$10,000.00)	L.S.	\$10,000	\$10,000	\$15,000.00	\$15,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
10	201.02	1	ROADSIDE CLEANUP	EST.	\$3,000	\$3,000	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00
11	801.1	67	INLET PROTECTION	EACH	\$75	\$5,025	\$75.00	\$5,025.00	\$75.00	\$5,025.00	\$95.00	\$6,365.00
12	801.11	800	SILT FENCE	L.F.	\$3	\$2,400	\$5.00	\$4,000.00	\$4.50	\$3,600.00	\$3.50	\$2,800.00
13	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 152nd Av at NE 119th St)	L.S.	\$138,492	\$138,492	\$121,663.00	\$121,663.00	\$143,030.00	\$143,030.00	\$178,153.00	\$178,153.00
14	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 112th Av at NE 119th St)	L.S.	\$80,606	\$80,606	\$89,452.00	\$89,452.00	\$105,730.00	\$105,730.00	\$110,307.00	\$110,307.00
15	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 172nd Av at NE Ward Rd)	L.S.	\$140,982	\$140,982	\$118,178.00	\$118,178.00	\$140,990.00	\$140,990.00	\$169,863.00	\$169,863.00
16	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 99th St at NE 137th Av)	L.S.	\$89,258	\$89,258	\$88,507.00	\$88,507.00	\$99,450.00	\$99,450.00	\$122,122.00	\$122,122.00
17	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 99th St at NE 130th Av)	L.S.	\$66,601	\$66,601	\$68,093.00	\$68,093.00	\$76,110.00	\$76,110.00	\$83,380.00	\$83,380.00
18	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 99th St at NE 124th Av)	L.S.	\$57,264	\$57,264	\$65,937.00	\$65,937.00	\$81,180.00	\$81,180.00	\$91,166.00	\$91,166.00
19	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 162nd Av at NE Ward Rd (County))	L.S.	\$134,110	\$134,110	\$93,438.00	\$93,438.00	\$119,200.00	\$119,200.00	\$150,075.00	\$150,075.00
20	820.1	1	TRAFFIC SIGNAL SYSTEM (NE Ward Rd at Ped Crossing)	L.S.	\$82,473	\$82,473	\$77,637.00	\$77,637.00	\$89,280.00	\$89,280.00	\$102,947.00	\$102,947.00
21	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 78th St/152nd Av at NE Ward Rd)	L.S.	\$144,592	\$144,592	\$124,682.00	\$124,682.00	\$154,840.00	\$154,840.00	\$178,285.00	\$178,285.00
22	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 76th St at NE Ward Rd)	L.S.	\$141,791	\$141,791	\$124,265.00	\$124,265.00	\$134,380.00	\$134,380.00	\$158,305.00	\$158,305.00
23	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 76th St at NE 137th Av)	L.S.	\$156,170	\$156,170	\$130,512.00	\$130,512.00	\$153,510.00	\$153,510.00	\$198,163.00	\$198,163.00
24	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 76th St at NE 130th Av)	L.S.	\$143,347	\$143,347	\$106,008.00	\$106,008.00	\$128,680.00	\$128,680.00	\$184,072.00	\$184,072.00
25	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 76th St at NE 124th Av)	L.S.	\$137,808	\$137,808	\$117,875.00	\$117,875.00	\$133,450.00	\$133,450.00	\$172,867.00	\$172,867.00
26	820.1	1	TRAFFIC SIGNAL SYSTEM (NE117th Av at 76th St)	L.S.	\$77,805	\$77,805	\$29,380.00	\$29,380.00	\$32,320.00	\$32,320.00	\$99,755.00	\$99,755.00
27	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 76th St at NE 107th Av)	L.S.	\$158,971	\$158,971	\$117,688.00	\$117,688.00	\$140,600.00	\$140,600.00	\$191,857.00	\$191,857.00
28	820.1	1	TRAFFIC SIGNAL SYSTEM (NE Covington Rd at NE 76th St)	L.S.	\$196,130	\$196,130	\$142,936.00	\$142,936.00	\$162,630.00	\$162,630.00	\$290,079.00	\$290,079.00
29	820.1	1	TRAFFIC SIGNAL SYSTEM (NE Covington Rd at NE 102nd Av)	L.S.	\$109,860	\$109,860	\$137,472.00	\$137,472.00	\$115,700.00	\$115,700.00	\$153,735.00	\$153,735.00
30	820.1	1	TRAFFIC SIGNAL SYSTEM (NE Covington Rd at NE 107th Av)	L.S.	\$139,737	\$139,737	\$115,692.00	\$115,692.00	\$137,600.00	\$137,600.00	\$180,797.00	\$180,797.00
31	820.1	1	TRAFFIC SIGNAL SYSTEM (NE Covington Rd at NE Rosewood Av)	L.S.	\$106,748	\$106,748	\$107,906.00	\$107,906.00	\$125,110.00	\$125,110.00	\$153,695.00	\$153,695.00
32	820.1	1	TRAFFIC SIGNAL SYSTEM (Padden Parkway at NE Andresen Rd)	L.S.	\$8,714	\$8,714	\$17,635.00	\$17,635.00	\$15,930.00	\$15,930.00	\$31,904.00	\$31,904.00
33	820.1	1	TRAFFIC SIGNAL SYSTEM (Padden Parkway at NE 55th Av/NE 78th S	L.S.	\$17,428	\$17,428	\$23,189.00	\$23,189.00	\$27,630.00	\$27,630.00	\$42,144.00	\$42,144.00
34	820.1	1	TRAFFIC SIGNAL SYSTEM (Padden Parkway at NE 94th Av)	L.S.	\$42,948	\$42,948	\$39,215.00	\$39,215.00	\$42,890.00	\$42,890.00	\$81,586.00	\$81,586.00
35	820.1	1	TRAFFIC SIGNAL SYSTEM (NE St. Johns Rd at NE LaLonde Rd)	L.S.	\$4,357	\$4,357	\$2,400.00	\$2,400.00	\$3,790.00	\$3,790.00	\$19,940.00	\$19,940.00
36	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 88th St at NE St. Johns Rd)	L.S.	\$19,296	\$19,296	\$10,130.00	\$10,130.00	\$12,080.00	\$12,080.00	\$32,964.00	\$32,964.00
37	820.15	1	TRAFFIC SIGNAL FIBER OPTIC COMMUNICATION SYSTEM	L.S.	\$877,236	\$877,236	\$777,466.00	\$777,466.00	\$613,690.00	\$613,690.00	\$101,142.00	\$101,142.00
38	820.16	1	FIBER OPTIC SYSTEM TESTING	L.S.	\$2,000	\$2,000	\$36,384.00	\$36,384.00	\$19,550.00	\$19,550.00	\$13,165.00	\$13,165.00
39	821.01	1	PERMANENT SIGNING	L.S.	\$3,000	\$3,000	\$32,000.00	\$32,000.00	\$28,670.00	\$28,670.00	\$42,384.00	\$42,384.00
SCHEDULE 1 TOTAL												
						\$3,444,549.07		\$3,151,765.00		\$3,511,565.00		\$3,710,912.00

SCHEDULE 2: ORCHARDS AREA TRAFFIC SIGNAL OPTIMIZATION
Do Not include sales taxes in the individual Unit and Lump Sum prices.

40	101.07	1	MOBILIZATION	L.S.	\$10,000	\$10,000.00	\$50,000.00	\$50,000.00	\$68,400.00	\$68,400.00	\$65,000.00	\$65,000.00	
41	105.4	1	REPLACEMENT STAKING SERVICES	HOUR	-\$100	-\$100.00	-\$100.00	-\$100.00	-\$100.00	-\$100.00	-\$100.00	-\$100.00	
42	107.15	1	SPCC PLAN	L.S.	\$500	\$500.00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	\$2,500.00	\$2,500.00	
43	108.01	1	TYPE B PROGRESS SCHEDULE(Minimum bid of \$1,000.00)	L.S.	\$1,000	\$1,000.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	
44	110	1	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	\$10,000	\$10,000.00	\$45,000.00	\$45,000.00	\$39,460.00	\$39,460.00	\$58,795.00	\$58,795.00	
45	110.02	400	FLAGGERS	HOUR	\$60	\$24,000.00	\$51.00	\$20,400.00	\$65.00	\$26,000.00	\$65.00	\$26,000.00	
46	110.04	250	CONSTRUCTION SIGNS CLASS A	S.F.	\$10	\$2,500.00	\$20.00	\$5,000.00	\$17.00	\$4,250.00	\$18.00	\$4,500.00	
47	110.08	4	TRANSPORTABLE ATTENUATOR	EACH	\$7,250	\$29,000.00	\$1,500.00	\$6,000.00		\$6,590.00	\$6,500.00	\$26,000.00	
48	110.13	1	PEDESTRIAN TRAFFIC CONTROL(Minimum bid of \$2,500.00)	L.S.	\$2,500	\$2,500.00	\$15,000.00	\$15,000.00	\$2,500.00	\$2,500.00	\$3,500.00	\$3,500.00	
49	201.02	1	ROADSIDE CLEANUP	EST.	\$1,500	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	
50	801.1	19	INLET PROTECTION	EACH	\$75	\$1,425.00	\$75.00	\$1,425.00	\$75.00	\$1,425.00	\$95.00	\$1,805.00	
51	801.11	25	SILT FENCE	L.F.	\$3	\$75.00	\$5.00	\$125.00	\$4.50	\$112.50	\$3.52	\$88.00	
52	820.1	1	TRAFFIC SIGNAL SYSTEM (I-205 NB Onramp at Padden Parkway)	L.S.	\$13,071	\$13,071.19	\$4,500.00	\$4,500.00	\$4,890.00	\$4,890.00	\$10,010.00	\$10,010.00	
53	820.1	1	TRAFFIC SIGNAL SYSTEM (I-205 SB Offramp at Padden Parkway)	L.S.	\$19,296	\$19,295.56	\$1,000.00	\$1,000.00	\$3,060.00	\$3,060.00	\$34,155.00	\$34,155.00	
54	820.1	1	TRAFFIC SIGNAL SYSTEM (Padden Parkway at NE 137th Av)	L.S.	\$84,180	\$84,180.00	\$44,758.00	\$44,758.00	\$49,740.00	\$49,740.00	\$89,514.00	\$89,514.00	
55	820.1	1	TRAFFIC SIGNAL SYSTEM (Padden Parkway at NE 152nd Av)	L.S.	\$97,520	\$97,520.00	\$52,430.00	\$52,430.00	\$69,070.00	\$69,070.00	\$88,723.00	\$88,723.00	
56	820.1	1	TRAFFIC SIGNAL SYSTEM (Padden Parkway at Ward Rd)	L.S.	\$66,355	\$66,355.00	\$44,988.00	\$44,988.00	\$45,290.00	\$45,290.00	\$55,501.00	\$55,501.00	
57	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 162nd Av at NE Ward Rd)	L.S.	\$93,380	\$93,380.00	\$60,238.00	\$60,238.00	\$70,830.00	\$70,830.00	\$97,457.00	\$97,457.00	
58	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 162nd Av at NE 78th St)	L.S.	\$30,705	\$30,705.00	\$11,008.00	\$11,008.00	\$28,900.00	\$28,900.00	\$48,098.00	\$48,098.00	
59	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 162nd Av at NE 73rd St)	L.S.	\$57,673	\$57,672.50	\$58,478.00	\$58,478.00	\$49,620.00	\$49,620.00	\$81,139.00	\$81,139.00	
60	820.1	1	TRAFFIC SIGNAL SYSTEM (NE 162nd Av at 4th Plain)	L.S.	\$87,745	\$87,745.00	\$61,118.00	\$61,118.00	\$66,550.00	\$66,550.00	\$186,596.00	\$186,596.00	
61	820.15	1	TRAFFIC SIGNAL FIBER OPTIC COMMUNICATION SYSTEM	L.S.	\$126,786	\$126,786.00	\$288,471.00	\$288,471.00	\$239,650.00	\$239,650.00	\$45,208.00	\$45,208.00	
62	820.16	1	FIBER OPTIC SYSTEM TESTING	L.S.	\$1,500	\$1,500.00	\$13,752.00	\$13,752.00	\$11,900.00	\$11,900.00	\$9,796.00	\$9,796.00	
SCHEDULE 2 SUBTOTAL							\$760,610.25		\$788,091.00		\$792,137.50		\$937,785.00
WASHINGTON STATE SALES TAX AT 8.40%							\$63,891.26		\$66,199.64		\$66,539.55		\$78,773.94
SCHEDULE 2 TOTAL							\$824,501.51		\$854,290.64		\$858,677.05		\$1,016,558.94

TOTAL BID (Schedule 1 + Schedule 2)					\$4,269,050.58	\$4,006,055.64	\$4,370,242.05	\$4,727,470.94
RANKING						First	Second	Third
% OVER OR UNDER ENGR. EST.						-6.16%	2.37%	10.74%