

**WALLA WALLA COST ENGINEERING
MANDATORY CENTER OF EXPERTISE**

COST AGENCY TECHNICAL REVIEW

CERTIFICATION STATEMENT

Project No. 464170

POA Port of Nome Navigation Improvement Project

The Port of Nome Navigation Improvement Project, as presented by Alaska District, has undergone a successful Cost Agency Technical Review (Cost ATR), performed by the Walla Walla District Cost Engineering Mandatory Center of Expertise (Cost MCX) team. The Cost ATR included study of the project scope, report, cost estimates, schedules, escalation, and risk-based contingencies. This certification signifies the products meet the quality standards as prescribed in ER 1110-2-1150 Engineering and Design for Civil Works Projects and ER 1110-2-1302 Civil Works Cost Engineering.

As of March 23, 2020, the Cost MCX certifies the estimated total project cost of:

NED Plan:

Total First Costs (FY20):	\$490,919,000
Fully Funded Costs:	\$591,917,000

It remains the responsibility of the District to correctly reflect these cost values within the Final Report and to implement effective project management controls and implementation procedures including risk management throughout the life of the project.



FOR: Michael P. Jacobs, PE, CCE
Chief, Cost Engineering MCX
Walla Walla District

**** TOTAL PROJECT COST SUMMARY ****

PROJECT: Port of Nome Modification Feasibility Study
PROJECT NO: P2 464170
LOCATION: Nome, Alaska

DISTRICT: Alaska District-POA
POC: CHIEF, COST ENGINEERING, Karl Harvey
PREPARED: 2/19/2020

This Estimate reflects the scope and schedule in report; December 2019, Draft Integrated Feasibility Report & EA

Civil Works Work Breakdown Structure		ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)					TOTAL PROJECT COST (FULLY FUNDED)					
WBS NUMBER A	Civil Works Feature & Sub-Feature Description B	COST (\$K) C	CNTG (\$K) D	CNTG (%) E	TOTAL (\$K) F	ESC (%) G	COST (\$K) H	CNTG (\$K) I	TOTAL (\$K) J	Program Year (Budget EC): Effective Price Level Date: 2020 1 OCT 19		TOTAL FIRST COST (\$K) K	INFLATED (%) L	COST (\$K) M	CNTG (\$K) N	FULL (\$K) O
										Spent Thru: 1-Oct-18 (\$K)						
10	BREAKWATER & SEAWALLS	\$283,928	\$96,536	34.0%	\$380,464	2.3%	\$290,532	\$98,781	\$389,312	\$0	\$389,312	17.8%	\$342,149	\$116,331	\$458,480	
12	NAVIGATION PORTS & HARBORS	\$53,116	\$18,059	34.0%	\$71,175	3.7%	\$55,068	\$18,723	\$73,791	\$0	\$73,791	36.8%	\$75,326	\$25,611	\$100,937	
12	LOCAL SERVICE FACILITIES (Berthing)	\$8,579	\$2,917	34.0%	\$11,496	3.7%	\$8,894	\$3,024	\$11,918	\$0			excluded from Fully Funded Costs			
08	LOCAL SERVICE FACILITIES (Bridge, Roads)	\$77,389	\$26,312	34.0%	\$103,701	1.9%	\$78,852	\$26,810	\$105,662	\$0			excluded from Fully Funded Costs			
19	LOCAL SERVICE FACILITY (Utilities)	\$2,268	\$771	34.0%	\$3,039	0.4%	\$2,277	\$774	\$3,051	\$0			excluded from Fully Funded Costs			
12	ASSOCIATED (ATON)	\$69	\$24	34.0%	\$93	3.7%	\$72	\$24	\$96	\$0			excluded from Fully Funded Costs			
CONSTRUCTION ESTIMATE TOTALS:		\$425,349	\$144,619		\$569,968	2.4%	\$435,695	\$148,136	\$583,831	\$0	\$463,104		\$417,475	\$141,942	\$559,417	
01	LANDS AND DAMAGES	\$16	\$5	34.0%	\$21	1.9%	\$16	\$6	\$22	\$0	\$22		excluded from Fully Funded Costs			
30	PLANNING, ENGINEERING & DESIGN	\$6,742	\$2,292	34.0%	\$9,035	3.4%	\$6,972	\$2,370	\$9,342	\$0	\$9,342	4.9%	\$7,312	\$2,486	\$9,798	
31	CONSTRUCTION MANAGEMENT	\$13,316	\$4,527	34.0%	\$17,843	3.4%	\$13,770	\$4,682	\$18,451	\$0	\$18,451	23.0%	\$16,941	\$5,760	\$22,701	
PROJECT COST TOTALS:		\$445,423	\$151,444	34.0%	\$596,867		\$456,453	\$155,194	\$611,646	\$0	\$490,919		\$441,729	\$150,188	\$591,917	

CHIEF, COST ENGINEERING, Karl Harvey

PROJECT MANAGER, Jen Cate/Steve Howard

CHIEF, REAL ESTATE, Vacant

CHIEF, PLANNING, Cindy Upah

CHIEF, ENGINEERING, Mark Derocchi

CHIEF, OPERATIONS, Julie Anderson

CHIEF, CONSTRUCTION, Mark Derocchi

CHIEF, CONTRACTING, Chris Tew

CHIEF, PM-CW, Bruce Sexauer

CHIEF, DPM, Randy Bowker

ESTIMATED TOTAL PROJECT COST: **\$591,917**
GENERAL NAVIGATION FEATURES: \$559,417

PROJECT FIRST COST: **\$490,919**
LOCAL SERVICE FACILITIES COST: \$120,631
ASSOCIATED COSTS: \$96
LERR: \$22

**** TOTAL PROJECT COST SUMMARY ****

**** CONTRACT COST SUMMARY ****

PROJECT: Port of Nome Modification Feasibility Study
 LOCATION: Nome, Alaska
 This Estimate reflects the scope and schedule in report; December 2019, Draft Integrated Feasibility Report & EA

DISTRICT: Alaska District-POA
 POC: CHIEF, COST ENGINEERING, Karl Harvey
 PREPARED: 2/19/2020

Civil Works Work Breakdown Structure		ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)				TOTAL PROJECT COST (FULLY FUNDED)				
		Estimate Prepared: 19-Feb-20		Program Year (Budget EC): 2020		Effective Price Level: 1-Oct-18		Effective Price Level Date: 1 OCT 19						
		RISK BASED												
WBS NUMBER A	Civil Works Feature & Sub-Feature Description B	COST (\$K) C	CNTG (\$K) D	CNTG (%) E	TOTAL (\$K) F	ESC (%) G	COST (\$K) H	CNTG (\$K) I	TOTAL (\$K) J	Mid-Point Date P	INFLATED (%) L	COST (\$K) M	CNTG (\$K) N	FULL (\$K) O
General Navigation Features														
10	BW Demo & Construct, mob-demobe	\$283,928	\$96,536	34.0%	\$380,464	2.3%	\$290,532	\$98,781	\$389,312	2025Q3	17.8%	\$342,149	\$116,331	\$458,480
12	Dredging Basins, Mob-demobe	\$53,116	\$18,059	34.0%	\$71,175	3.7%	\$55,068	\$18,723	\$73,791	2025Q3	17.8%	\$64,852	\$22,050	\$86,901
12	Navigation Aids Foundations	\$69	\$24	34.0%	\$93	3.7%	\$72	\$24	\$96	2025Q3	17.8%	\$84	\$29	\$113
CONSTRUCTION ESTIMATE TOTALS:		\$337,113	\$114,618	34.0%	\$451,732		\$345,671	\$117,528	\$463,200			\$407,085	\$138,409	\$545,495
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
0.1%	Project Management	\$202	\$69	34.0%	\$271	3.4%	\$209	\$71	\$280	2021Q1	3.8%	\$217	\$74	\$291
0.1%	Planning & Environmental Compliance	\$202	\$69	34.0%	\$271	3.4%	\$209	\$71	\$280	2021Q1	3.8%	\$217	\$74	\$291
1.0%	Engineering & Design	\$3,371	\$1,146	34.0%	\$4,517	3.4%	\$3,486	\$1,185	\$4,671	2021Q1	3.8%	\$3,619	\$1,231	\$4,850
0.1%	Reviews, ATRs, IEPRs, VE	\$202	\$69	34.0%	\$271	3.4%	\$209	\$71	\$280	2021Q1	3.8%	\$217	\$74	\$291
0.1%	Life Cycle Updates (cost, schedule, risks)	\$202	\$69	34.0%	\$271	3.4%	\$209	\$71	\$280	2021Q1	3.8%	\$217	\$74	\$291
0.6%	Contracting & Reprographics	\$2,023	\$688	34.0%	\$2,710	3.4%	\$2,092	\$711	\$2,803	2021Q1	3.8%	\$2,172	\$738	\$2,910
0.1%	Engineering During Construction	\$202	\$69	34.0%	\$271	3.4%	\$209	\$71	\$280	2025Q3	23.0%	\$257	\$87	\$345
0.1%	Planning During Construction	\$169	\$57	34.0%	\$226	3.4%	\$174	\$59	\$234	2025Q3	23.0%	\$214	\$73	\$287
0.0%	Adaptive Management & Monitoring	\$0	\$0	34.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
0.1%	Project Operations	\$169	\$57	34.0%	\$226	3.4%	\$174	\$59	\$234	2021Q1	3.8%	\$181	\$62	\$242
31	CONSTRUCTION MANAGEMENT													
3.4%	Construction Management	\$11,462	\$3,897	34.0%	\$15,359	3.4%	\$11,852	\$4,030	\$15,882	2025Q3	23.0%	\$14,582	\$4,958	\$19,540
0.5%	Project Operation:	\$1,686	\$573	34.0%	\$2,259	3.4%	\$1,743	\$593	\$2,336	2025Q3	23.0%	\$2,144	\$729	\$2,874
0.1%	Project Management	\$169	\$57	34.0%	\$226	3.4%	\$174	\$59	\$234	2025Q3	23.0%	\$214	\$73	\$287
CONTRACT COST TOTALS:		\$357,171	\$121,438		\$478,610		\$366,413	\$124,580	\$490,993			\$431,339	\$146,655	\$577,994

**** TOTAL PROJECT COST SUMMARY ****

**** CONTRACT COST SUMMARY ****

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 LOCATION: Nome, Alaska
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DISTRICT: Alaska District-POA
 POC: CHIEF, COST ENGINEERING, Karl Harvey
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		Estimate Prepared: Effective Price Level:		19-Feb-20 1-Oct-18		Program Year (Budget EC): Effective Price Level Date:		2020 1 OCT 19						
WBS NUMBER	Civil Works Feature & Sub-Feature Description	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	ESC (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	Mid-Point Date	INFLATED (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
A	B	C	D	E	F	G	H	I	J	P	L	M	N	O
Local Sponsor Funded Items														
10	BREAKWATER & SEAWALLS	\$0	\$0	26.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
12	LSF-Dredge Dock Berthing Areas	\$8,579	\$2,917	34.0%	\$11,496	3.7%	\$8,894	\$3,024	\$11,918	2025Q3	17.8%	\$10,474	\$3,561	\$14,036
08	LSF-Docks, Mooring Pts, Bridge, Causeway R	\$77,389	\$26,312	34.0%	\$103,701	1.9%	\$78,852	\$26,810	\$105,662	2025Q3	17.8%	\$92,862	\$31,573	\$124,434
19	LSF-Utilities	\$2,268	\$771	34.0%	\$3,039	0.4%	\$2,277	\$774	\$3,051	2025Q3	17.8%	\$2,681	\$912	\$3,593
CONSTRUCTION ESTIMATE TOTALS:		\$88,236	\$30,000	34.0%	\$118,236		\$90,023	\$30,608	\$120,631			\$106,017	\$36,046	\$142,063
01	LANDS AND DAMAGES	\$16	\$5	34.0%	\$21	1.9%	\$16	\$6	\$22	2018Q1	-6.1%	\$15	\$5	\$21
30	PLANNING, ENGINEERING & DESIGN													
0.1%	Project Management	\$53	\$18	34.0%	\$71	3.4%	\$55	\$19	\$73	2021Q1	3.8%	\$57	\$19	\$76
0.1%	Planning & Environmental Compliance	\$53	\$18	34.0%	\$71	3.4%	\$55	\$19	\$73	2021Q1	3.8%	\$57	\$19	\$76
1.0%	Engineering & Design	\$882	\$300	34.0%	\$1,182	3.4%	\$912	\$310	\$1,223	2021Q1	3.8%	\$947	\$322	\$1,269
0.1%	Reviews, ATRs, IEPRs, VE	\$53	\$18	34.0%	\$71	3.4%	\$55	\$19	\$73	2021Q1	3.8%	\$57	\$19	\$76
0.1%	Life Cycle Updates (cost, schedule, risks)	\$53	\$18	34.0%	\$71	3.4%	\$55	\$19	\$73	2021Q1	3.8%	\$57	\$19	\$76
0.6%	Contracting & Reprographics	\$529	\$180	34.0%	\$709	3.4%	\$547	\$186	\$734	2021Q1	3.8%	\$568	\$193	\$762
0.1%	Engineering During Construction	\$53	\$18	34.0%	\$71	3.4%	\$55	\$19	\$73	2025Q3	23.0%	\$67	\$23	\$90
0.1%	Planning During Construction	\$44	\$15	34.0%	\$59	3.4%	\$46	\$16	\$61	2025Q3	23.0%	\$56	\$19	\$75
0.0%	Adaptive Management & Monitoring	\$0	\$0	34.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
0.1%	Project Operations	\$44	\$15	34.0%	\$59	3.4%	\$46	\$16	\$61	2021Q1	3.8%	\$47	\$16	\$63
31	CONSTRUCTION MANAGEMENT													
3.4%	Construction Management	\$3,000	\$1,020	34.0%	\$4,020	3.4%	\$3,102	\$1,055	\$4,157	2025Q3	23.0%	\$3,817	\$1,298	\$5,115
0.5%	Project Operation:	\$441	\$150	34.0%	\$591	3.4%	\$456	\$155	\$611	2025Q3	23.0%	\$561	\$191	\$752
0.1%	Project Management	\$44	\$15	34.0%	\$59	3.4%	\$46	\$16	\$61	2025Q3	23.0%	\$56	\$19	\$75
CONTRACT COST TOTALS:		\$93,502	\$31,791		\$125,293		\$95,468	\$32,459	\$127,928			\$112,381	\$38,209	\$150,590