

September 2016



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VALDEZ NEW BOAT HARBOR

CONSTRUCTION UPDATE (Phase 1 Uplands Civil Work)

Harris Sand & Gravel (HS&G) continued implementing SWPPP and traffic controls.

Water, Sewer and Storm Drain Systems – Chlorinated and tested service water lines and fire lines at ramps. Installed backflow preventer and insulated enclosure at Ramp #3.

Ramp Abutments – Placed reinforced concrete slabs at abutments where future ramps will be connected.

Utilities and High Mast Lighting – CVEA set transformers and pulled conductors. Puffin Electric worked on grounding for street lights, installed hand holes, switchboard cabinets and lighting controls, erected street lights, pulled wire and began making switchboard connections. Puffin also assembled high mast light poles, lowering devices and fixture arrays for installation next month. HS&G extended trenching through bedrock and GCI installed their remaining of conduit near the West access. HS&G continued installing bollards at fire hydrant locations.

Waterfront Boardwalk and Sidewalk – Zastrow finished forming and concrete placement for boardwalk sleepers, sleeper keys, stemwalls, sidewalk, curbs, ADA ramps, utility pads, abutments and maintenance access bollards. Boardwalk construction continued with placement of sleepers, brackets, stringers, bull rails, guardrails and handrails. Backfilling along boardwalk stemwalls continued.

Survey – Wrangell Mountain Technical Services continued surveying to document as-built conditions.

General – Sitework continued, including breaking bedrock and excavating the west and east ditches; shaping the West access mound; placing topsoil and hydroseeding throughout the site; preparing grade for curb, gutter and sidewalk; completing placement of Type II-A subgrade except in areas Western Marine is permitted to use for access and staging for breakwater construction; finish grading at Abutments and around East entrance and East side curb and gutter; placing Filter Rock to finish grade at NW slope of East fill. Started installing signs – some will be deferred for installation with paving. Asphalt paving and related leveling course and striping items will not be performed this year. Overall, the remaining Phase 1 construction work is approximately 93% and on track for completion in November 2016.

PROJECT ACHIEVEMENTS

- Finished placing and stamping colored concrete at islands
- Finished installing curb and sidewalk
- Finished placing topsoil and hydroseeding
- Continued pulling wire and installing equipment for site electrical
- Continued placing beams, bull rails, guardrails and handrails for boardwalk and picnic areas
- Received USACE Permit Modification for in-water mechanical rock removal test
- Conducted ripper test for removing in-water bedrock
- Tested water service lines at three ramps
- CVEA started installing primary electrical transformers
- Started assembling and installing high mast light poles

SEPTEMBER 2016 PROJECT UPDATE (CONT.)

Ripper Test - A test was conducted during low tides to evaluate the effectiveness of an X60 Xcentric ripper attached to an 800-class excavator for removing fractured and/or solid bedrock in the West outcrop and Drive-Down Flat Basin (east) areas. It was anticipated, but unfortunately not demonstrated, that this ripper would provide a cost-effective alternative to drilling and blasting for removal of some in-water rock. Although the ripper was not successful, subsequent testing with a rock bucket at the east area demonstrated that fractured bedrock could be removed.

In addition to Phase 1 work, HS&G continued delivering rock to Western Marine for construction of the breakwaters.

EMC provided general observations, inspected pipe, conduit and rebar installation, tested soil compaction and sampled and tested concrete for curb and gutter, abutments, utility pads and boardwalk sleepers.

DESIGN

R&M Consultants (R&M) continued to work with the City (COV) on design packages for future phases of the new harbor. The 95% design for Drive-Down Ramp and Float package is due by October 21. R&M continued to provide limited construction phase services for the Uplands Civil Work. R&M and Arcadis continued to work with the COV to develop and evaluate options to minimize the quantity and cost for removing in-water rock. Overall sequencing of the remaining work packages is dependent on Western Marine Construction's (WMC) completion of the USACE work and other factors. The project team has been reviewing and discussing this issue with WMC. The focus during October and November 2016 will be on timing for bidding and performing the remaining work packages. R&M and COV representatives will start conducting Substantial Completion inspections in October.

USACE NAVIGATION IMPROVEMENTS

The USACE is administering WMC's performance of the dredging and breakwater contract. WMC was granted a Temporary Land Use Permit from the City of Valdez to use the west end of the Uplands site to handle and store rock and access the west breakwater ramp, expediting the breakwater construction process. WMC continues dredging the new harbor basin, hauling rock from Valdez Glacier Quarry, and transporting rock by barge and trucks for construction of the breakwaters. Breakwater construction is several months ahead of schedule and it appears the South Breakwater might be constructed to approximately elevation +10' by the end of the 2016 construction season. Finish elevation of the breakwaters will be +19'. The COV is coordinating with WMC and USACE to widen the maneuvering channel and create more basin area at the west end. During October and November, we anticipate having discussions with WMC and USACE to reach mutually acceptable conditions for allowing access to the new harbor basin for a future COV contractor to begin installing piling and floats in fall 2017.

FUTURE MILESTONES

- Finish scope and bid documents for in-water rock removal
- Finish Drive-Down Ramp and Float 95% Design
- Issue fuel facility request for proposal (RFP)
- Energize (CVEA) primary electrical service
- Install posts and signs (except those deferred with paving)
- Finish installing insulated enclosures for backflow preventers
- Finish installation and test the high mast lights and street lights
- Finish construction of boardwalk and picnic area
- Inspect Civil, Structural and Electrical work for Substantial Completion
- Install temporary poles to mark site utilities and curbs for snow removal

PROJECT TEAM

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PRELIMINARY PROJECT SCHEDULE

* Schedule and Scope depends on funding and USACE's completion of dredging and breakwater.

Task	2014	2015				2016				2017				2018
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
CITY OF VALDEZ WORK														
Corps of Engineers Permit														
Phase 1 Uplands (Civil Work)														
Design/Bid/Award														
Construction														
Phase 2 Inner Harbor Facilities (Including Launch Ramp)														
Design/Bid/Award/Procurement*														
On-Site Construction*														
Uplands Facilities														
Design/Bid/Award/Procurement*														
On-Site Construction*														
Future Facilities	TBD													
CORPS OF ENGINEERS (USACE) WORK														
Harbor Dredging and Breakwaters														
Quarry Development/Dredging/ Breakwater Construction														

BUDGET SUMMARY

Description	Original Budget	Revised Budget	Committed	Spent as of 9/30/16	% Spent	Estimate at Completion
DESIGN	\$ 2,451,971	\$ 2,507,679	\$ 2,472,004	\$ 2,017,484	80%	\$ 2,507,679
Design	\$ 1,851,971	\$ 1,991,075	\$ 1,991,075	\$ 1,719,465	86%	\$ 1,991,075
Design Team Services During Construction	\$ 600,000	\$ 516,604	\$ 480,929	\$ 298,019	58%	\$ 516,604
PROJECT MANAGEMENT	\$ 2,340,548	\$ 2,362,548	\$ 1,841,827	\$ 1,691,534	72%	\$ 2,362,526
Project Management	\$ 1,740,548	\$ 1,762,548	\$ 1,478,877	\$ 1,363,123	77%	\$ 1,762,548
Inspection/Testing	\$ 600,000	\$ 600,000	\$ 362,950	\$ 328,411	55%	\$ 599,978
USACE CONSTRUCTION - CITY PORTION	\$ 9,345,453	\$ 9,345,453	\$ 7,525,453	\$ 5,141,258	55%	\$ 9,345,453
Initial Basin	\$ 7,145,453	\$ 7,145,453	\$ 7,145,453	\$ 4,761,258	67%	\$ 7,145,453
Other Basin Modifications	\$ 2,200,000	\$ 2,200,000	\$ 380,000	\$ 380,000	17%	\$ 2,200,000
CITY CONSTRUCTION	\$ 39,023,904	\$ 40,189,698	\$ 19,971,568	\$ 17,629,065	44%	\$ 40,899,232
Phase 1 Uplands	\$ 19,013,040	\$ 19,592,255	\$ 19,592,255	\$ 17,442,641	89%	\$ 19,592,255
Phase 2 Base Floats /Ramps/Fish Cleaning	\$ 9,300,100	\$ 9,800,100	\$ -	\$ -	0%	\$ 10,440,000
Upland Facilities	\$ 4,046,643	\$ 4,046,643	\$ -	\$ -	0%	\$ 4,116,277
Drive Down Float	\$ 4,951,721	\$ 4,951,721	\$ -	\$ -	0%	\$ 4,951,721
Drive-Down Float In-water Modifications	\$ 1,342,500	\$ 1,342,500	\$ -	\$ -	0%	\$ 1,342,500
Hotel Hill Clearing - Alaska Land Clearing	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	100%	\$ 40,000
Hotel Hill Clearing - P&R Enterprises	\$ 24,900	\$ 24,900	\$ 24,900	\$ 24,900	100%	\$ 24,900
Electric Primary	\$ 225,000	\$ 311,579	\$ 311,579	\$ 121,524	39%	\$ 311,579
CCTV/Security/Head End Equipment	\$ 80,000	\$ 80,000	\$ 2,834	\$ -	0%	\$ 80,000
ADMINISTRATION	\$ 60,000	\$ 60,000	\$ 44,225	\$ 45,345	76%	\$ 60,000
FFE	\$ 100,000	\$ 100,000	\$ -	\$ -	0%	\$ 100,000
CONTINGENCY (@ 15% original budget)	\$ 7,998,281	\$ 6,754,780			18%	\$ 6,045,268
TOTAL CITY FUNDED	\$ 61,320,158	\$ 61,320,158	\$ 31,855,077	\$ 26,524,686	43%	\$ 61,320,158
USACE FUNDED	\$ 21,277,761	\$ 21,277,761	\$ 21,277,761	\$ 14,816,679	70%	\$ 21,277,761
TOTAL CITY/USACE FUNDING	\$ 82,597,919	\$ 82,597,919	\$ 53,132,838	\$ 41,341,365	50%	\$ 82,597,919

* Data includes expenses from 5/22/14 which is the start of the Bond eligible costs authorized by COV Resolution 14-33. \$254,321.77 in R&M Expenses and other costs are not included. USACE expense data has been requested.



Spreading topsoil on berm at west property line



Typical boardwalk view with handrail and curb



Crane setting 100-foot high mast light pole on foundation



Brick imprinted concrete and topsoil separate access road traffic from parking spaces at east end of site



Installing cabinet for electrical distribution to floats



Xcentric ripper test on rock at east end of fill