

## MERTARVIK RELOCATION PROJECT

### Status Report for Steering Committee

Prepared by DOWL

December 14, 2017

The Steering Committee last met on November 8, 2017. Since then we want to report on the following:

- 1) Roads and Quarry Development:
  - a) DOWL meet with HC & GEI in November to evaluate the quarry and how to best approach the 2018 quarry development program. The recommendation is to blast a tighter grid which will cost an estimate of \$500,000. (ROM is \$10/cy of material for blasting plus \$125,000 for mob/demob for 50,000 cy.)
  - b) An RFP was sent out to suppliers on December 5 for quotes by December 15 to repair the crusher based on recommendations from GEI & HC.
  - c) Consider creating a quarry development plan.
  - d) NVC and Calista quarry negotiations in the hands of GEI.
- 2) MEC Request for Proposals from General Contractors:
  - a) NVC has reviewed the proposals and will provide the scoring sheet by 12 noon Wednesday. Five proposals were from F-E Contracting, Far West Ventures, Paug-Vik Development Corp, TC Construction and Wolverine Supply. The goal is to have a contract issued to the successful proposer on 1/5/2018.  
The RFP is set up with a base bid for the shell only and an alternate bid for MEP components of the project. The independent cost estimate for the project as designed is \$2.3M; available funding is \$1.85M (\$1.4M State and \$0.45M HUD for MEP). NVC meet with the USACE in DC (we've been told there is \$0.8M available upon approval of the Section 116 agreement) is critical to being able to start this project. There is concern as to whether or not the shell component can be built given limited funding NVC currently has.
  - b) Denali Commission has appropriated \$2M for house funding bringing the total to \$3.8 million (\$2.5 from the Denali Commission and \$300,000 from BIA).
- 3) Barracks Status:
  - a) Bettisworth North submitted a cost proposal for phase 3 construction documents for \$37,517 to include artists rendering. Denali Commission reviewed the document. A task order was sent on 12/13.
- 4) Energy:
  - a) AEA is moving forward with the development of a small power plant and distribution grid that can be built with available Denali Commission funding; this is "Plan B". The power plant will be sized to run the MEC and 10-20 houses as an interim measure. The 35% design cost summary is \$12,719,751.

- b) Newtok currently has only one (1) functioning generator. AEA is assisting with finding a 2<sup>nd</sup> unit that can provide backup generation to the community. Funding for the generator has not been secured.
- 5) Financial & Funding-Will be handed out.
- a) Grant Status:
    - i) DOWL submitted the FEMA Pre-Disaster Mitigation (\$575,000)
    - ii) USDA Tank Farm Grant submitted \$3M
    - iii) Tribal Transportation Safety Grants
  - b) NVC needs a determination from the BIA on whether or not the A16AV01004 “Bruce Grant” funds for technical assistance and training can be used as a match to the Denali Commission funds for prime power. The concept is to have the successful power contractor incorporate training program into the work for both construction and operations of the new power plant in Mertarvik. NVC sent a resolution supporting this process.
  - c) NVC has hired a grant writer to assist with grant applications. Current focus was on AHFC and FEMA grants:
    - (1) The Alaska Housing Finance Corporation (AHFC) funding for teacher housing was not submitted due an education plan needed to be created.
    - (2) DMVA Hazardous Mitigation Program Grant (HMPG) application was submitted.
  - d) An RFP for Accounting Services was sent on December 4 with proposals due on December 15, Opening and rating on 18<sup>th</sup>, selection on 19<sup>th</sup>. We advised NVC that we may need to extend QPA one month for a smooth transition due to the holiday season which they agree.
  - e) NVC met with CVRF (CDQ) verbal commitment (Andrew John) for \$1M.
- 6) Planning Efforts
- a) Mertarvik’s Strategic Implementation Plan is in draft form based upon the Master Development plan. DOWL and the Denali Commission created the “Newtok to Mertarvik Relocation Overview” for 2017 and 2018 for NVC to deliver to the federal agencies on their DC trip.
  - b) DOWL is developing the following plans for NVC:
    - i) Updating their Long Range Transportation Plan and Mertarvik strip maps.
    - ii) Developing their Tribal Transportation Safety Plan
- 7) Gaps
- a) Design and construction dollars for honey bucket / septage disposal pit and a trash disposal pit for pioneer homes in 2018.
  - b) A relocation plan for the 2018 residents who will be moving to Mertarvik needs to be developed.
- 8) Governance
- a) Submitted SF 1413s to and resolution to BIA to combine existing contracts into 3 contracts: Road maintenance, design & construction of Mertarvik roads and transportation planning.

## Meeting Notes with Gavin Dixon ANTHC 12/6 2pm-430pm

Sierra Branson will go on maternity leave through March 2018, Joe Hess (Lead Design Engineer) & Jackie Schaffer (Community Engagement) are his team.

2017 Completed - Mertarvik: Community layout design, geotech investigation, survey (CRW). Community Plat is in DNR's review at this time.

Base map for ANTHC (TCC) and F&W/USGS LIDAR completed incorporating into one map, to be published soon.

Geotechnical investigation identified possible rock quarry near airport, don't know if DOT will allow the community to use it or just for DOT. Another rock quarry was identified and may need a new road if they chose to develop it. Worthy of discussion once further study of rock coring results is completed by DOT in the near future.

Geophysical work 60/70 holes shows permafrost and bedrock not consistent need ground penetrating work to link those holes together for a better picture for \$100,000+

Joe H technical of rock quarry and has ideas such as use of a bucket crusher with the D8 (Mark Sherman has stated the undercarriage needs repair).

Completed-Newtok: upgrade some of water system, air quality work on homes and kits for cleaning mold, fire extinguishers (now recalled, but being replaced!), washeteria design for 2 showers and washer and dryer-short term use underway, construction in Newtok expected Spring/Summer 2018.

2018:

- 1) Land fill design 100% by January/February, this is a lower priority (than power plant, housing), will be a shallow trench (D8 can do the work) for \$1M, use quarry overburden to cover land fill is the plan.
- 2) Sewer system for MEC is a priority, need \$800,000 from USACE (This is independent of the Sewer System, and is not the cost; the USACE money could probable over, septic system, likely will recommend small washeteria be placed in MEC, no \$ identified.
- 3) Water & Sewer PER, design will be December/January timeframe for MEC, but the PER to inform the entirety of the communities potential water/sewer service will be in the spring/early summer.
- 4) This spring, Golder (ANTHC contractor) will send out staff to test water quality of one of the west well their samples were compromised (jars broke), and collect flow test data during break up Existing and recently conducted water testing indicate potentially connected aquifer and excellent water quality. MEC Well has sufficient production to supply water for pioneering community.

- 5) (see above) , get report back and will look at USDA regular program RD grant application for \$500,000.

After 5 years full water supply.

10 years currently anticipating recommending piped water and sewer. Portable alternative is \$20-50K, the existing homes retro fit estimated \$40/50K. ANTHC is trying to work with AVCP RHA on this idea. Short term (may) need funding for P.A.S.S. system.

DOE NOFA energy efficiency to renovate construction camp is current idea on the table Construction Camp currently can only be used in the summer; this will not work if people have to stay there in winter. Health and safety concerns with the CO2, CCHRC is doing the report, (not sure on this one yet) for water and sewer correction and ~\$120k for other units and mess hall. Bunkhouses will require further design and engineering to produce valid cost estimate for renovation.

Bunk house is significantly more challenging to retrofit for winter functionality, and is likely to be more expensive.

DOE: Heat recovery project potentially able to be combined with construction camp upgrades to reduce operations costs, heat recovery could be develop to provide heat to MEC and Construction camp. More affordable operations produce opportunity to have more flexible revenues if the school rents the MEC space from NVC.

Trying to find ways for geophysical work to tie into a water project, sot that water funding sources can be utilized to conduct geophysics.

The community needs to identify a water and power plant operators to live in Mertarvik.

They have a model (of Mertarvik) in the office if we want to use it of the community layout. They have a video that shows the different phases that can be used in presentations.

Action items:

Mertarvik did identify water and power plant operators on 12/11.