

Copper River Watershed Habitat Enhancement Project
Cordova EVOS Site COP 43, 44, and 45
95% Plans and Specifications Review Meeting

Draft Meeting Minutes

Date: December 2, 2019
Time: 10:00 pm
Location: Teleconference
Conference Calling Number: 1-877-620-0608
Code: 12345654321#

MEETING PARTICIPANTS

Heather Hanson	US Fish & Wildlife	Heather_hanson@fws.gov
Kate Morse	CRWSP	kate@copperriver.org
Bill Spencer	HDR	Bill.spencer@hdrinc.com
George Uligan	BCE	george@bce-ak.com
Egor Esipov	BCE	egor@bce-ak.com

The purpose of today's meeting was to discuss Heather's comments on the 95% design and to discuss and answer any questions remaining from the 95% design review team meeting held on November 19th.

WORK WINDOW

Heather referred to Megan Marie's email defining the work window as June 1 to July 31. The smolt out-migration is in early June. There will be downstream passage around the worksites. We would monitor the downstream

Currently, there is diversion channel upstream only for existing channel we will be using upstream. Per Bill, our thought was that we would block the one culvert being worked on, divert waters using the ditch line and/or pond to the other two crossings so that the water would continue to flow out of those area. This leaves the downstream section of the particular culvert you're working on. In order to keep that water, we would divert some water around that so the downstream channel below each individual culvert would continue to be watered. So, if there are fish in that water, they can still survive.

Heather is for doing this without diversion channels. As long as it meets the intent of what Fish & Game wants to see here. The contractor will need to know what's needed.

CONSTRUCTION COMPLETION

Construction to be completed by August 15. Heather doesn't want to extend beyond that. As an added note, September 1 is moose hunting season.

DESIGN DRAWINGS (Heather's comments)

Sheet C302, Note 2

Diversion culvert not necessary, stream flows...hydraulically connected...contractor to clear flow from one site to another ADD: "and to ensure smolts out migrate during construction."

This can be further explained at the pre-construction meeting. We just need to keep downstream channels watered in some fashion.

Sheet G001

There is a table on Sheet G001. Add Cop 46 for extension under project descriptions

SPECIFICATIONS (Heather's comments)

Scope of Work

Add extending one culvert in addition to replacing three culverts.

Clearing and Grubbing

Since there is a window for bird migration from May 15 to July 15 the contractor will need to clear before May 15.

There is a reference to 60-days. Remove that and use actual dates instead for clarification.

36-hour shutdown

Concerning the one contiguous shutdown or three 12-hour shutdowns, we should change sentence about the shutdown.

Cannot be shut down for more than 4 hours—should say 36-hour or three 12-hour periods for each site.

Concerning the statement that the maximum impact to traffic is 45-days for all three sites, either remove it or make it in alignment with other dates. Seems restrictive.

Egor to verify with ADOT if it can be changed or removed.

Kate noted that there are agencies who may have research camps in the area during the summertime and her concern is their ability to access these camps during a traffic closure. Heather responded that there should be a traffic control plan that would cover the road closure. The contractor can be required to give a two weeks' notice before any road closures so that CRWP can notify any stakeholders or agencies with camps in the area of the work site.

Special Provision – Traffic Maintenance

ADD: two weeks' notice of any road closures to the engineer (CRWP) so they can notify public and stakeholders.

Construction Complete Date

For work below high water, construction to be completed by 8/15. This gives us two weeks after the July 31 date to wrap up.

Section 201 – Clearing and Grubbing (pg 5)

There was discussion concerning the need to have a requirement that the contractor harvest vegetative mat, but don't salvage, stockpile and re-use.

REMOVE: Additional vegetative mate, if required

ADD: Vegetative mat will be made available offsite to support revegetation needed for this project. The contractor SHALL harvest and transport vegetation from the approved offsite location. Harvest vegetative mat within 5 miles of the project work site.

KEEP: the contractor shall notify engineer 72-hours in advance. Harvest and transplant within one day

Remove anything that says, "if needed"

ADD: Section 603 for extension
Refer to pay items, basis of payment only

Quantify Rip Rap + 1

Discussion about how the detail shows all the larger rock, but there is a variety of sizes in there. Don't remove it. Add a note that we expect it to be per linear foot, quantify it to make sure we have enough. From the meeting minutes have 30% coverage. Heather is not sure this is enough.

ADD Riprap should cover 50% of the area; foot thick; (1 cy per 20 lf of thalweg)

MINUTES

Project Engineer

The Project Engineer and Engineer roles are not the same. ADOT&PF defines the project engineer and engineer at the beginning of the specs, which is helpful.

Heather will be the project engineer. She can pass on any questions for the design to BCE. She will deal with engineering questions. The Engineer/Contracting Officer will be Copper River Watershed Project (CRWP)

Excavation

Discussion about excavation. Added table of subsidiary items for quantities to let contactors know what we calculated. Heather is good with this change.

Page 5

SWPPP, correct the spelling of the acronym.

Other Requirements

Concerning Sub-base F, Section 203, is it Subsidiary or bid item? Per Heather, make it a stand-alone item and provide a bid quantity.

Page 15

At the bottom of the page, change to 1 cubic yard per 20 feet

Ditch Lines (pg. 16-17)

The ditch line is an important part of how the water flows between these different crossings between 44 and 45 and from 45 to 46. If the beaver blocks one of the pipes, the water needs to go somewhere else. We want to maintain the ditch lines so the water didn't have to jump over the toe wood. Once you maintain the ditch line, there was no real area for toe wood, so we would remove it from the drawing.

Heather agrees that we want to maintain the ditch line. In her experience, every single site they end up making adjustments to the bank revegetation based on what we actually see out there. In one location the ditch line ran into the back of the toe wood. So, we had to go back to fix and re-grade the ditch line.

Keep it in the bid items, keep them in the drawings. We'll eliminate in the field, if necessary, and won't pay for it. Gives us the flexibility in the field. It doesn't always match what the surveyors find because they don't always understand the points we need for water flow.

KEEP it as is.

ADD a note that we're going to maintain a ditch line. All re-vegetation may be adjusted in the field by the direction of the engineer.

Section 602

Excavation will be subsidiary

Bid Schedule

Heather would like to see an updated to make sure we have all the bid items as needed.

Section 640

ADOT wanted to add pay items for 640, lodging and per diem. It was decided that it's okay to keep as is.

Section 641 (pg 5)

ADOT wanted to add some contingencies...4, 5, 6. It was decided that it's okay to keep as is.

3-man survey crew

It was decided that it's okay to add this requirement. May be used, if needed. The project will have a grade checker.

Kate is to make sure we have a requirement for the grade checker's background in the bid package to make sure we have a competent grade checker. Heather will put together a list from the specs on everything the contractor is required to submit.

SCHEDULE

- | | |
|-------------------|---|
| 12/13/19 | <ul style="list-style-type: none">• BCE to submit 99.9% specifications for last review by the team.• BCE to submit 99.9% drawings to Heather and Kate for their last review.• 11/19/19 Meeting minutes will be distributed to the team. |
| 12/16 to 12/20/19 | Team is to review and return their comments on the specifications. |
| 1/3/2020 | 100% Design and Specs are due. |
| 1/6/2020 | Bid package assembled and out to bid. |

Heather asked that we update meeting minutes with today's discussion, and we can distribute them.

With no other questions or comments, the meeting was adjourned.