

Steve Jones

From: Michael Anderson <manderson@water.nv.gov>
Sent: Tuesday, November 10, 2015 9:38 AM
To: Steve Jones
Cc: Edmund Quaglieri
Subject: RE: Skye Canyon - J-716

Steve;

OK. We have read the new specifications and reviewed the replacement plans. As a preface, specifications for dam construction are a special condition so road construction, although close, has many details that are not relevant to or are absolutely forbidden in dam construction. To wit:

- 1) In the design document there must be a discussion of downstream hazard classification. I apologize as this should have been pointed out in our prior feedback, if not in our meeting.
- 2) Plans call out "HSS" as the material for use in presumably steel construction. We were unable to find a definitive definition of the acronym nor a reference to a specification for "HSS."
 - a. Related to this, specification 609.02.01.E appears to be in conflict with other steel specifications and the plans at Sheet 8, Detail (1).
- 3) Specifications:
 - a. Generally, all references to compaction (90% of maximum dry density per ASTM D-1557), although acceptable, are in conflict with the Geotechnical Report and violates the stability assumptions therein. Either all references to 90% should be changed to 95% or the stability calculations should be revisited for 90%.
 - b. Generally, if roads are a part of the project, a differentiation between road embankment construction and dam embankment construction must be made.
 - c. 201.03.03 – No stumps are allowed in the embankment footprint.
 - d. 203.03.06 – Page SP-202-3 - Gradation requirements should be referenced. Is this the correct specification number (202)? Also, the page states "END OF SECTION 206."
 - e. 203.03.10, 203.03.16.C & 203.03.16.E – All are unsuitable for dam embankment construction.
 - f. 203.03.16.F – This is the only noted reference to a "detention basin berm." This term must be defined as the initial thought is there must be a sediment berm within the basin. If reference is being made to the dam, the preferred term is "dam embankment."
 - g. 203.03.17 – This specification is in conflict with 203.03.73. Suggest deletion of 203.03.17.
 - h. 207.03.01.C & 207.03.03.A – (backfill lift thickness) may not be used within dam footprint.
 - i. 208.03.12 and on – May not be used within dam footprint or abutment areas. Specification 708.01.01.F should be cross referenced.
 - j. 610.02.05 & 610.03.06 – Rounded or sub-rounded stone is not allowed in areas subject to flowing water or wave action. Gabion fill in these areas must be angular or sub-angular only. Care must be taken to minimize amount of stone at or smaller than the basket apparent opening size and not allow small stones to be at the exterior of the basket.

Please provide revised sheets, addendums or complete documents (in duplicate) as soon as practicable. Review will recommence upon receipt of revised information.

Thanking you in advance,

Mike!

Michael J. Anderson, P.E.

Safety of Dams
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From: Steve Jones [mailto:sjones@shg-inc.com]
Sent: Thursday, October 29, 2015 8:07 AM
To: Michael Anderson
Subject: RE: Skye Canyon - J-716

OK. Thanks for the update.

Steve Jones, P.E.
Project Manager

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From: Michael Anderson [mailto:manderson@water.nv.gov]
Sent: Thursday, October 29, 2015 8:06 AM
To: Steve Jones
Subject: RE: Skye Canyon - J-716

Steve;

Should be much quicker. I have the box staring at me right here. Time line? 4 weeks, I believe... hopefully quicker.

Mike!
Michael J. Anderson, P.E.
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From: Steve Jones [mailto:sjones@shg-inc.com]
Sent: Thursday, October 29, 2015 7:55 AM
To: Michael Anderson
Subject: RE: Skye Canyon - J-716

Mike,

You should have received our package for this project earlier this week. Does the 3 month review timeline restart with this package or is it a little quicker since you started looking at it previously? Could you give me an estimated time on when we might your review completion?

Steve Jones, P.E.
Project Manager

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From: Steve Jones
Sent: Wednesday, October 21, 2015 7:35 AM
To: 'Michael Anderson'
Subject: RE: Skye Canyon - J-716

Yes, we figured out how to show the foundation elevation on the plans. Thanks, talk to you soon.

Steve Jones, P.E.
Project Manager

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From: Michael Anderson [<mailto:manderson@water.nv.gov>]
Sent: Tuesday, October 20, 2015 4:11 PM
To: Steve Jones
Subject: RE: Skye Canyon - J-716

Steve;

Yes, that would be great. Did you ever get a response to your query regarding identifying the foundation elevation on the plans?

Mike!

Michael J. Anderson, P.E.
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From: Steve Jones [<mailto:sjones@shg-inc.com>]
Sent: Tuesday, October 20, 2015 3:15 PM
To: Michael Anderson
Cc: Edmund Quaglieri
Subject: RE: Skye Canyon - J-716

Mike,

We are completing the stand-alone specifications this week and the few changes on the plans you identified. We have also amended the plans based on Clark County Regional Flood Control District comments. Therefore, we will be sending you, likely early next week, 3 new sets of plans and 3 sets of specifications.

Would you like an executive summary detailing the CCRFCD changes beyond what you asked for in your email below to assist with your review?

Steve Jones, P.E.
Project Manager

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From: Michael Anderson [<mailto:manderson@water.nv.gov>]
Sent: Thursday, September 10, 2015 4:15 PM
To: Steve Jones
Cc: Edmund Quaglieri
Subject: Skye Canyon - J-716

Steve;

Eddy and I have reviewed the application package and have come a cropper on a few items. Please find attached a brief list of those items we need addressed prior to completing our review.

One thing that bears mentioning is that we have insisted on specifications be clearly stated for the dam instead of referenced. We do not have a copy of the standard specifications for every jurisdiction. We are looking into getting a copy of the industry standard specifications for civil works so we may relax this requirement a bit. However we do not have it yet.

I will return to the office on 9/22 and will be pleased to answer any questions you may have at that time.

Sincerely,

Mike!
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