
Public / SBU / FOUO

Comment Report: All Comments

Project: Fargo Moorhead Metro - Reach 4 Design by MVK

Review: DTR Pkg.- DQC 65% Review

Displaying 61 comments for the criteria specified in this report.

Id	Discipline	DocType	Spec	Sheet	Detail
5032406	Environmental	Design Memorandum or Report	n/a	n/a	n/a

Comment Classification: **Public (Public)**

Coordinating Discipline(s): Cultural Resources

DDR Main Report Section 12.4 and Appendix K: Environmental, Section K.4 -- Revised paragraphs on cultural resources for these report sections will be provided to Environmental PDT member as requested to update existing paragraphs.

Submitted By: [Virginia Gnabasiik](#) (651-290-5262). Submitted On: Feb 12 2013

1-0 Evaluation Concurred

Check. Thanks.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Revised paragraphs have been added.

Submitted By: [Virginia Gnabasiik](#) (651-290-5262) Submitted On: Mar 26 2013

Current Comment Status: **Comment Closed**

5032433	Environmental	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **Public (Public)**

Coordinating Discipline(s): Cultural Resources

DDR Appendix K: Environmental, Section K.2.5 -- Add following sentence to end of paragraph: "No cultural resources mitigation or monitoring is needed for Reach 4."

Submitted By: [Virginia Gnabasiik](#) (651-290-5262). Submitted On: Feb 12 2013

1-0 Evaluation Concurred

Check.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Sentence has been added.

Submitted By: [Virginia Gnabasik](#) (651-290-5262) Submitted On: Mar 26 2013

Current Comment Status: **Comment Closed**

5032552 Project Management Plans n/a n/a n/a

Comment Classification: **Public (Public)**

[**This item is flagged as a critical issue.**]

Coordinating Discipline(s): Cultural Resources

Reach 4 Plans -- Excavated material pile area and staging area (Vol. 2, sheet CS101) and Excavated material pile area (Vol. 3, sheets CS101 and CS102) need Phase I cultural resources survey. Should add to URS Phase I cultural resources survey contract for spring 2013 if ROEs are available.

Submitted By: [Virginia Gnabasik](#) (651-290-5262). Submitted On: Feb 12 2013

1-0 Evaluation Concurred
Check.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Mar 07 2013

1-1 Backcheck Recommendation Close Comment

These EMP and staging areas have been added to the non-Federal sponsors' Phase I cultural resources survey contract with URS Corporation.

Submitted By: [Virginia Gnabasik](#) (651-290-5262) Submitted On: Mar 26 2013

Current Comment Status: **Comment Closed**

5034341 General Design Memorandum or Report n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

(**Document Reference: Page 1, Section 1.2**)

This paragraph mentions the Red River reaching flood stage 48 of the past 109 years, and every year from 1993 through 2011. It is not clear if the record of 109 years ends with 2011, or if 2012 is included in this data. The way it reads, it sounds like 2011 is the last year included. If necessary, can the record be updated to include 2012? Also, "the past 109 years" is not specific enough to be referenced at a later time. (It might be better to specify exactly which 109 years.)

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

The statement was made prior to the 2011 flood so a statement that is correct and addresses the comment would be:

The Red River of the North has exceeded the National Weather Service flood stage of 18 feet in 49 of the past 111 years (1902 through 2012), and recently every year from 1993 through 2011.

That change will be made.

Submitted By: [Raymond Wilson](#) (601-631-5738) Submitted On: Feb 26 2013

1-1 Backcheck Recommendation Close Comment

Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034343	General	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Page 2, Section 1.5](#))

The "reference documents" are still inaccessible. Both the "within USACE" and "outside of USACE" links take me to a page where I am either told "Access Denied" or to login with a username and password. If the links don't work, should they be removed from the report?

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Fargo-Moorhead Sharepoint read access permissions will be given to all DQC and ATR team members.

Submitted By: [Jonathan Boone](#) (601-631-5502) Submitted On: Mar 20 2013

1-1 Backcheck Recommendation Close Comment

I checked the internal USACE project link and access was granted. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 26 2013

Current Comment Status: **Comment Closed**

5034346	General	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Page 8, Section 2.2.2 and 2.2.3](#))

The abbreviation "EMB" is defined properly in the text in section 2.2.3, but it is not the first time that the abbreviation appears in the report. The definition of the term should probably appear in Section 2.2.2 instead of 2.2.3.

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

EMB is included, in parenthesis, following Excavated Material Berms in the title of Section 2.2.2 instead of in the text that follows.

Submitted By: [Raymond Wilson](#) (601-631-5738) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034349	Hydraulics	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Page 14, Section 5.1](#))

The 2nd to last sentence mentions "extreme diversion flows that fortunately will occur with high tailwater stages", but there is no explanation for why this is "fortunate". The word fortunately might not be necessary here, or possibly a further explanation could be made to inform the reader why high tailwater stages are fortunate.

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Removed "fortunately" from statement.

Submitted By: [Raymond Wilson](#) (601-631-5738) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034354	Hydraulics	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Page 15, Section 5.3](#))

This is a very long section to be contained in only one paragraph. The exact breaks can be best chosen by the writer, but in one instance, it would make sense for new paragraph to start with the sentence, "The goal of the hydraulic design for the project...".

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Edited to two paragraphs with break as recommended.

Submitted By: [Raymond Wilson](#) (601-631-5738) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034357	Hydraulics	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Page 14-16, Section 5.3](#))

The descriptions of the diversion channel widths and slopes would be more effective if accompanied by drawings of typical cross-sections. If the typical sections cannot be included in the main report, it might be good to point out to the reader that these can be found in the Hydraulics Appendix.

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Added the following statement in Section 5.3:

"A typical Reach 4 Diversion cross-section is provided as Figure C.2. on page C-5 of Appendix C: Hydraulics and Hydrology."

Submitted By: [Raymond Wilson](#) (601-631-5738) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Thanks. This is a good reference statement. Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034373	Hydraulics	Engineering Appendix	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Page C-iii, Attachments](#))

Coordinating Discipline(s): Hydraulics

The section heading "Attachments" is not followed by any items. Later in this appendix, it is stated that a supplemental report by Moore Engineering is attached, and that should be indicated here.

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

The "Attachments" heading was removed from the report. The text stating that the Moore Engineering report was attached has been changed to point the reader to Appendix M.

Submitted By: [Donald Duncan](#) (314-331-8809) Submitted On: Feb 22 2013

1-1 Backcheck Recommendation Close Comment

Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034376	Hydraulics	Engineering Appendix	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Page C-7, Section C.2.1.3](#))

Coordinating Discipline(s): Hydraulics

The information about typical diversion roughness values does not agree with the same information in the main report. The main report states 0.028, and the appendix states 0.027. These values should be in agreement, so one of the two should be revised.

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Changed the roughness value on page 16 of the main report from 0.028 to 0.027.

Submitted By: [Raymond Wilson](#) (601-631-5738) Submitted On: Mar 01 2013

1-1 Backcheck Recommendation Close Comment

Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034377	Hydraulics	Engineering Appendix	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Page C-10 to C-11, Section C-6 and C-7](#))

Coordinating Discipline(s): Hydraulics

These two figures have the same title, "Preliminary Plans for Triple Pipe Structure with Headwall." I believe that Figure C-7 should be called "Preliminary Plans for Triple Pipe Structure with Flared Inlet End Sections".

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Title of Figure C-7 changed as recommended.

Submitted By: [Raymond Wilson](#) (601-631-5738) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034381 Hydraulics Engineering Appendix n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: Page C-12, Section C.3.1)

Coordinating Discipline(s): Hydraulics

This section describes the Reach 4 drainage structure design, and conduit flow calculations follow on the next page, but the method of calculation was not indicated in the document. Was this a hand calculation, or can you include the name of the software used for this computation?

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Most of the calculations were hand calculations. The equations were entered into an Excel spreadsheet for convenience. The normal depth calculations were performed using a program available online at: ponce.sdsu.edu/onlinechannel01.php

That link will be included.

Submitted By: [Raymond Wilson](#) (601-631-5738) Submitted On: Feb 26 2013

1-1 Backcheck Recommendation Close Comment

Reference link noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034382 Hydraulics Engineering Appendix n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: Page C-16, Section C.5)

Coordinating Discipline(s): Hydraulics

The section is titled "Rush Inlet Structure" but the first sentence reads, "The Diversion Outlet Structure serves two main purposes." Please correct the structure name in that first sentence.

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Text was modified to "The Rush Inlet Structure serves two main purposes."

Submitted By: [Donald Duncan](#) (314-331-8809) Submitted On: Feb 22 2013

1-1 Backcheck Recommendation Close Comment

Change noted and verified in the revised document on Projectwise. Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034385 Hydraulics Engineering Appendix n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Page C-24, Figure C-16](#))

Coordinating Discipline(s): Hydraulics

It appears that the highest velocities are observed in the largest discharge profile (3,490 cfs). Since only 7 events were studied, and the remaining 6 are smaller events than 3,490 cfs, was there any consideration given to running a larger magnitude of flow to see if velocities ended up even greater than those for the 3,490 cfs profile?

Submitted By: [John Boeckmann](#) (314-331-8801). Submitted On: Feb 13 2013

1-0 Evaluation For Information Only

Table C-6 presents design flow rates for the structure. 3,490 cfs represents the 0.2% chance profile. Section C.5.2.6 states that the riprap design was based on the condition during construction and that after the full diversion is constructed backwater from the diversion channel would greatly reduce velocities for rarer events, such as the 0.2% event. The risk of an event exceeding the 0.2% chance event during construction is extremely small. If one assumes it takes an additional 20 years to complete the remainder of the diversion, the chance of the 0.2% event being exceeded is only 0.4%.

Submitted By: [Donald Duncan](#) (314-331-8809) Submitted On: Feb 22 2013

1-1 Backcheck Recommendation Close Comment

Good explanation. Thanks. (No report change to verify.) Comment closed.

Submitted By: [John Boeckmann](#) (314-331-8801) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5034765 Geotechnical Design Memorandum or Report n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Recommend adding appropriate headers and footers with project and report name, attachment numbers and names, and page numbers to all attachments.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. Headers and footers will be added to the attachments.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034770	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Recommend labeling all materials in Geostudio models.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

Revised Feb 13 2013.

1-0 Evaluation Concurred

Concur. Soil layers will be labeled in the Geostudio output plates.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034773	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

PDF pages 89-94. The model is labeled incorrectly in the smaller title block used in zoomed view. Should be Section 6B, rather than 6C.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. Will update label to 6B rather than 6C.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034816	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(**Document Reference: Appendix D1**)

Coordinating Discipline(s): Geotechnical

Attachment D1-5: Values on PDF page 96 contradict those on PDF page 97 and Table D-6 in report.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation For Information Only

Page 96 is for the Design Grade, Page 97 and Table D-6 were for the geotech maximum heights. Will clarify this in the appendix when label tables.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Open Comment

Table D-6, page D-15, should be updated to reflect changed settlement values.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

2-0 Evaluation Concurred

Concur. Have updated Table D-6 to match the calculated settlement.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Mar 13 2013

2-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034819	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Recommend labeling which settlement condition the values represent in the Attachment D1-5 summary tables (design or max load).

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. Will label the tables in the attachment.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034828	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Attachment D1-5 CSETT input parameters are unclear. Recommend presenting parameters in separate table in the Appendix. (Or, for example, Reach 4 Appendix D2 Attachment D2-5, the CSETT output display format is more clearly presented and easier to understand.)

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

Revised Feb 13 2013.

1-0 Evaluation Concurred

Concur. Will add CSETT parameters in separate table in the attachment.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034839	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Attachment D-5, CSETT .in pages (PDF Page 112 and 115). Line 170, Cc parameter entered is 0.3, according to Table D-5, this should be 0.22.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. Cc for Sherack will be updated to 0.22 in all analyses.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Mar 04 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034856	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

No rebound calculations presented.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. Rebound calculations were accidentally omitted from the review and will be added to Attachment D1-5.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Open Comment

Rebound calcs incorporated, however the excavation depth values in Table D-7, page D-17 of report, are inconsistent with those presented in the Attachment.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

2-0 Evaluation Concurred

Concur. Incorrect table was pulled from spreadsheet to present in report. Table D-7 has been updated to match the attachment.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Mar 13 2013

2-1 Backcheck Recommendation Close Comment

Changes have been incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034905	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Attachment D1-4. Provide a layout of the geometry for each section before the Geostudio analyses are presented.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. Layout will be provided prior to presenting the stability analyses.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034952	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Paragraph D.3.3 page D-4. Last paragraph. Recommend the "additional investigation" details be included within the paragraph D.4.6 Future Work.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation For Information Only

This language was taken directly from the Reach 1 project and will be removed as MVK is not planning any additional investigation.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

Backcheck not conducted

2-0 Evaluation For Information Only

After further discussion with the designers, it has been decided that MVP is planning on performing additional investigation and this will be left in the report. If details of additional investigation are provided by MVP these can be added to the report.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 28 2013

2-1 Backcheck Recommendation Close Comment

Paragraph D.4.6 appropriately updated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034966	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Paragraph D.4.1.2 3) EMBS, page D-5.

Recommend better explanation of the geometry/configuration of the drainage structure/EMB and possibly providing an illustration. Include actual EMB elevation.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. A more detailed explanation of the drainage structure will be provided.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034970	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Paragraph D.4.1.2 3) EMBS, page D-5.

It is mentioned that the design will have to be verified to meet all stability requirements, but no models are included in the attachments except excavation. Recommend including stability models for the constructed section.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. Will determine if any additional analyses are required at the structure and include those in later submittals if required.

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Comment has been appropriately addressed.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5034979	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix D1](#))

Coordinating Discipline(s): Geotechnical

Paragraph D.6, pg D-12, Closed Bullet 3, Open Bullet 4

To maintain consistency, per 2/4/2012 email from Greg Wachman, PI<55 should be changed to LL<=90.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 13 2013

1-0 Evaluation Concurred

Concur. Appendix was finalized for DQC review prior to receiving the guidance. PI

Submitted By: [Heather Sibley](#) (601-631-5917) Submitted On: Feb 14 2013

1-1 Backcheck Recommendation Close Comment

Changes have been appropriately incorporated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 13 2013

Current Comment Status: **Comment Closed**

5036540	Environmental	Other	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

Reach 4 Diversion Channel and Rush River Inlet/Drop Structure

Good; well written.

Update Table of Contents

Submitted By: [Teri Allen](#) (314-331-8084). Submitted On: Feb 14 2013

1-0 Evaluation Concurred

Check.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Continue to update as needed.

Submitted By: [Teri Allen](#) (314-331-8084) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5036551	Environmental	Other	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

Reach 4 Diversion Channel and Rush River Inlet/Drop Structure

Appendix K: Environmental

Page K-2 of 5

States... "It should be noted that providing fish passage channels around the Red River and Wild Rice River Control Structures is no longer being considered because of an increase in allowable flows through town before the project operates."

Add sentence stating how this affects the availability of passage for fish.

Submitted By: [Teri Allen](#) (314-331-8084). Submitted On: Feb 14 2013

Revised Feb 14 2013.

1-0 Evaluation Concurred

removed this sentence from document. what is being done at the Red and Wild Rice rivers has no bearing on what will be designed for the Rush River drop structure.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Mar 07 2013

1-1 Backcheck Recommendation Close Comment

Verified that revision was made.

Submitted By: [Teri Allen](#) (314-331-8084) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5036557	Environmental	Other	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

Page K-3 of 5

K.3.1 Fish Passage at Outlet Structure – Not applicable to this reach.

States... "Not applicable to this reach."

Remove information if it is not applicable.

Submitted By: [Teri Allen](#) (314-331-8084). Submitted On: Feb 14 2013

Revised Feb 14 2013.

1-0 Evaluation Concurred

Will edit wording.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Mar 07 2013

1-1 Backcheck Recommendation Close Comment

Verified that revision was made.

Submitted By: [Teri Allen](#) (314-331-8084) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5036573	Environmental	Other	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

Attachment K-2

Page K2-1 of 16

States... "The fundamental purpose of the proposed fish passage structure is to provide a pathway for the immigration and emigration of fish from the Red River to the Rush and Lower Rush Rivers."

Suggest rewording to "The fundamental purpose of the proposed fish passage structure is to provide a pathway for the immigration and emigration of fish among the Red River and the Rush and Lower Rush Rivers."

(immigration and emigration connotes multidirectional passage; i.e., both "to" and "from")

Submitted By: [Teri Allen](#) (314-331-8084). Submitted On: Feb 14 2013

Revised Feb 14 2013.

1-0 Evaluation Concurred

Will reword as recommended.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Verified that revision was made.

Submitted By: [Teri Allen](#) (314-331-8084) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5036580	Environmental	Other	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

Attachment K-2

Page K2-5 of 16

Table K2-2.

State what the italics in Table K2-2 represents.

Submitted By: [Teri Allen](#) (314-331-8084). Submitted On: Feb 14 2013

Revised Feb 14 2013.

1-0 Evaluation Concurred

Will remove italics - were for authors reference only.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Feb 25 2013

1-1 Backcheck Recommendation Close Comment

Verified that revision was made.

Submitted By: [Teri Allen](#) (314-331-8084) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5036585	Environmental	Other	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

Attachment K-2

Page K2-15 of 16

States... "Monitoring will be performed post?construction to assess fish migration through various project features, including Red and Wild Rice river control structures, aqueducts and other features. Monitoring activities specific to this fish passage feature will be considered within the context of overall fish passage monitoring for the entire system."

Describe pre-construction monitoring and how pre- and post- monitoring will be compared.

Submitted By: [Teri Allen](#) (314-331-8084). Submitted On: Feb 14 2013

Revised Feb 14 2013.

1-0 Evaluation Concurred

A monitoring plan is currently under development by the Corps in coordination with state agencies and the sponsor.

Submitted By: [Ken Cook](#) (314-331-8498) Submitted On: Mar 07 2013

1-1 Backcheck Recommendation Close Comment

Discussed with Ken Cook.

Submitted By: [Teri Allen](#) (314-331-8084) Submitted On: Mar 14 2013

Current Comment Status: **Comment Closed**

5037420	Specifications	Specifications	n/a	n/a	n/a
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Comment Classification: **Public (Public)**
Coordinating Discipline(s): Specifications

The Geotextile Section is missing in the Earthwork Section of the outline. There should also be a pre-cast concrete specification in the outline for the 72 inch RCP in the bid schedule.

Submitted By: [Jane Flewellen](#) (651-290-5554). Submitted On: Feb 14 2013

Revised Feb 15 2013.

1-0 Evaluation Concurred

The geotextile section and pre-cast concrete specification (72 inch RCP) will be added in a future submittal.

Submitted By: [Jonathan Boone](#) (601-631-5502) Submitted On: Mar 11 2013

1-1 Backcheck Recommendation Close Comment

Submitted By: [Jane Flewellen](#) (651-290-5554) Submitted On: Apr 12 2013

Current Comment Status: **Comment Closed**

5038508	Civil	Quality Control Plan	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

Reviewed 65% DQC and Plans regarding utility relocations on Reach 4. No comments, documents appear to cover subject matter as needed at this time.

Submitted By: [David Wallace](#) (601 631 5981). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

Thank you for reviewing the documents.

Submitted By: [Jonathan Boone](#) (601-631-5502) Submitted On: Mar 11 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [David Wallace](#) (601 631 5981) Submitted On: Oct 24 2013

Current Comment Status: **Comment Closed**

5039276	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

Paragraph D.4.1.1, page D-3. Clarify which direction the longitudinal slope is decreasing. Recommend providing specific details about the grading.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The paragraph was updated to include the following "The Rush River will empty into the FMM Diversion Channel via a rock ramp with a 2% longitudinal slope increasing from downstream to upstream in order to tie into the invert of the river."

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Close Comment

Report updated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

Current Comment Status: **Comment Closed**

5039279	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

D.4.2, Table D-2, page D-5. This table implies RR1 has a low flow invert, recommend separating out the 2 sections in different tables to better describe geometries.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The table was misleading b/c the RR1 low flow invert should have read N/A and Ramp invert EL should have read 861.53. The table was updated and should be clearer. These can be separated into two tables if the change is not clear enough.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Close Comment

Table updated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

Current Comment Status: **Comment Closed**

5039283	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

D.4.5, Table D-4, page D-7. Recommend presenting the Case 5 results for the one diversion channel section analyzed.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

These analyses will be completed and included for the FTR submittal. We do not anticipate that these analyses will impact the overall design envelope because they are primarily for maintenance purposes, though there is an erosional component of the analyses.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Open Comment

Proposal to update the report for the FTR submittal is acceptable.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

1-2 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Dennis Gilmore](#) (314-331-8108) Submitted On: Jul 30 2013

Current Comment Status: **Comment Closed**

5039284	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

D.4.6, page D-7, last sentence. Case 5 takes into account potential scour as well as sedimentation.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The wording was updated to better reflect the intent of the case 5 analyses. "The Case 5 analyses for the Section 6a need to be completed, however this design element is primarily for maintenance purposes, though it does have an erosional component, and it is not anticipated to effect the design envelope."

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Close Comment

Report updated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

Current Comment Status: **Comment Closed**

5039288	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D2](#))

Coordinating Discipline(s): Geotechnical

D.6.2, page D-10. Shouldn't the surcharge be equivalent to the max EMB considering geotechnical constraints? (17' according to Table D-5)

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The settlement analyses were completed early in the design process before the 17' EMB height restriction was determined. This assumption is conservative. These analyses will be updated for the FTR to better reflect the actual design condition.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Open Comment

Proposal to update the report for the FTR submittal is acceptable.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

1-2 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Dennis Gilmore](#) (314-331-8108) Submitted On: Jul 30 2013

Current Comment Status: **Comment Closed**

5039293	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D2](#))

Coordinating Discipline(s): Geotechnical

D.6.2, Table D-7, page D-10. According to Attachment D2-5, Page 12, Finite Design Load Total settlement should be 1.536, not 1.589.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The table has been updated to show the correct settlement.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Close Comment

Table has been updated appropriately.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

Current Comment Status: **Comment Closed**

5039296 Geotechnical Design Memorandum or Report n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: Appendix D2)

Coordinating Discipline(s): Geotechnical

D.12, page D-15. Include Attachment D-5.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

Attachment D-5 was added.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Close Comment

Report appropriately updated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

Current Comment Status: **Comment Closed**

5039300 Geotechnical Design Memorandum or Report n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: Appendix D2)

Coordinating Discipline(s): Geotechnical

Attachment D-4. Overall seepage view should be presented first followed by zoomed seepage, followed by overall global, etc. Plates seem to be out of order.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

concur. the order has been fixed.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Close Comment

Presentation of plates has been updated.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

Current Comment Status: **Comment Closed**

5039302 Geotechnical Design Memorandum or Report n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

Attachment D-4. Label contour lines on Section 6 seepage model.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

contour lines have been labeled.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Close Comment

Models updated appropriately.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

Current Comment Status: **Comment Closed**

5039305	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

Attachment D-4. Recommend labeling models on Plates 22-25 to clearly define the models and conditions represented.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

models have been labeled to clearly id between the with and with out rip rap conditions.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Close Comment

Models updated appropriately.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

Current Comment Status: **Comment Closed**

5039308	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D2](#))

Coordinating Discipline(s): Geotechnical

Attachment D-5. It is not clear where settlement of 1.589 is derived from on page 7. According to page 12, it should be 1.536.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

Settlement should be 1.536 not 1.589. An incorrect cell was referenced in excel.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Open Comment

Proposal to update the report for the FTR submittal is acceptable.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

1-2 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Dennis Gilmore](#) (314-331-8108) Submitted On: Jul 30 2013

Current Comment Status: **Comment Closed**

5039316	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: [Appendix D2](#))

Coordinating Discipline(s): Geotechnical

Attachment D-5. This attachment could be better organized, with all calculations first, clearly labeled, and the summary table at the end.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

the attachment will be cleaned up.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Open Comment

Proposal to update the report for the FTR submittal is acceptable.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

1-2 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Dennis Gilmore](#) (314-331-8108) Submitted On: Jul 30 2013

Current Comment Status: **Comment Closed**

5039334 Geotechnical Design Memorandum or Report n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

Attachment D-5. Recommend labeling or placing title on calculations to distinguish between infinite and finite loading analysis.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred
will do

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Open Comment

Proposal to update the report for the FTR submittal is acceptable.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

1-2 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Dennis Gilmore](#) (314-331-8108) Submitted On: Jul 30 2013

Current Comment Status: **Comment Closed**

5039337 Geotechnical Design Memorandum or Report n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

Attachment D-5. Settlement and Rebound excel calculations are missing "checked by" information.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred
these will be added

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Open Comment

Proposal to update the report for the FTR submittal is acceptable.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

1-2 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Dennis Gilmore](#) (314-331-8108) Submitted On: Jul 30 2013

Current Comment Status: **Comment Closed**

5039349	Geotechnical	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Appendix D2](#))

Coordinating Discipline(s): Geotechnical

Attachment D-5 page 5. In Table 8. Soil Data. The effective unit weight for strata 1 should be 120 pcf instead of 123 pcf. Recommend updating settlement analysis.

Submitted By: [Rachel Lopez](#) (314-331-8425). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

this will be updated. The appropriate tables in the report will be updated as well.

Submitted By: [Nathan Rose](#) (314-331-8443) Submitted On: Mar 22 2013

1-1 Backcheck Recommendation Open Comment

Proposal to update the report for the FTR submittal is acceptable.

Submitted By: [Rachel Lopez](#) (314-331-8425) Submitted On: Mar 22 2013

1-2 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Dennis Gilmore](#) (314-331-8108) Submitted On: Jul 30 2013

Current Comment Status: **Comment Closed**

5039384	Structural	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: Appendix F, Paragraph F.4.4](#))

In the DDR on page F3, paragraph F.4.4 says that the "Headwall Alternative" was chosen as the best option. This option is described in paragraph F.4.1. This description does not match the design description in paragraph F.2. For instance, F.4.1 says that the layout consists of 738 linear feet of pipe while paragraph F.2 (and the plans) show 615 linear feet. Other differences exist. Suggest acknowledging the difference between concept and actual design and perhaps giving reasons for difference in paragraph F.4.4.

Submitted By: [Jonathan Bennett](#) (601 631 5599). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The following has been added to paragraph F.4.4 for clarification: "Originally, the Headwall Alternative consisted of 738 linear feet of 72 inch diameter Class IV RCP. This alternative was modified after the decision was made to lower the EMB at the drainage structure. Lowering the EMB decreased the pipe length required. The actual design of the Headwall Alternative includes all features discussed in F.4.1, but has 615 linear feet of Class IV RCP instead of 738 linear feet."

Submitted By: [Marneshia Richard](#) (601-631-7055) Submitted On: Feb 20 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jonathan Bennett](#) (601 631 5599) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5039392	Structural	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix F, Paragraph F.3](#))

EM 1110-2-2105 is mentioned in paragraph F.5 but is not listed in the References. This EM should be listed in the References (paragraph F.3).

Submitted By: [Jonathan Bennett](#) (601 631 5599). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

EM 1110-2-2105 has been added to the reference list.

Submitted By: [Marneshia Richard](#) (601-631-7055) Submitted On: Feb 19 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jonathan Bennett](#) (601 631 5599) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5039396	Structural	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix F, Paragraph F.3](#))

EM 1110-2-3104 is mentioned in paragraph F.8 but is not listed in the References. This EM should be listed in the References (paragraph F.3).

Submitted By: [Jonathan Bennett](#) (601 631 5599). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

EM 1110-2-3104 has been added to the reference list.

Submitted By: [Marneshia Richard](#) (601-631-7055) Submitted On: Feb 19 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jonathan Bennett](#) (601 631 5599) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5039399	Structural	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix F, Paragraph F.3](#))

EM 1110-2-2902 is mentioned in paragraph F.9.3 but is not listed in the References. This EM should be listed in the References (paragraph F.3).

Submitted By: [Jonathan Bennett](#) (601 631 5599). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

EM 1110-2-2902 has been added to the reference list.

Submitted By: [Marneshia Richard](#) (601-631-7055) Submitted On: Feb 19 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jonathan Bennett](#) (601 631 5599) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5039402	Structural	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix F, Paragraph F.3](#))

Paragraph F.11.2 mentions "Hydraulic Design of Stilling Basin for Pipe or Channel Outlets" by the Bureau of Reclamation. This should be listed in the References (paragraph F.3).

Submitted By: [Jonathan Bennett](#) (601 631 5599). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The "Hydraulic Design of Stilling Basin for Pipe or Channel Outlets" has been added to the reference list.

Submitted By: [Marneshia Richard](#) (601-631-7055) Submitted On: Feb 19 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jonathan Bennett](#) (601 631 5599) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5039403	Structural	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix F, Paragraph F.9.1](#))

Paragraph F.9.1 says the invert elevation of the pipes at the inlet headwall is 885.5 ft. This should be 886.5 ft.

Submitted By: [Jonathan Bennett](#) (601 631 5599). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The invert elevation of the pipes has been updated to show 886.5 ft.

Submitted By: [Marneshia Richard](#) (601-631-7055) Submitted On: Feb 19 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jonathan Bennett](#) (601 631 5599) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5039412	Structural	Design Memorandum or Report	n/a	n/a	n/a
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Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix F, Attachment F-1](#))

For the Inlet Headwall Design Calculations (Pipe Section) - While it doesn't affect these calculations, On page 1/24 the reinforcing steel F_y should be 60,000 psi.

Submitted By: [Jonathan Bennett](#) (601 631 5599). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The reinforcing steel has been changed to $f_y = 60,000$ psi.

Submitted By: [Marneshia Richard](#) (601-631-7055) Submitted On: Feb 19 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jonathan Bennett](#) (601 631 5599) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5039413 Structural Design Memorandum or Report n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [Appendix F, Attachment F-3](#))

For the Inlet Headwall Design Calculations (Wing Wall Section) - While it doesn't affect these calculations, On page 1/24 the reinforcing steel Fy should be 60,000 psi.

Submitted By: [Jonathan Bennett](#) (601 631 5599). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

The reinforcing steel has been changed to fy = 60,000 psi.

Submitted By: [Marneshia Richard](#) (601-631-7055) Submitted On: Feb 19 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jonathan Bennett](#) (601 631 5599) Submitted On: Mar 20 2013

Current Comment Status: **Comment Closed**

5039563 Civil Plans n/a CS501 n/a

Comment Classification: **For Official Use Only (FOUO)**

The Levee Benching Detail appears to be missing it's label/ sheet reference.

Submitted By: [Jason Mooney](#) (601-631-5614). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

Appropriate sheet reference has been added to detail.

Submitted By: [Michael Hanks](#) (314-331-8252) Submitted On: Mar 11 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jason Mooney](#) (601-631-5614) Submitted On: Aug 22 2013

Current Comment Status: **Comment Closed**

5039595 Civil Plans n/a CS503/504 n/a

Comment Classification: **For Official Use Only (FOUO)**

Recommend adding a key-in detail for rip rap and filter fabric at those locations where these materials intersect natural ground.

Submitted By: [Jason Mooney](#) (601-631-5614). Submitted On: Feb 15 2013

1-0 Evaluation Concurred

A key-in detail is being developed by MVP. The detail will be added to the plan set in a future submittal.

Submitted By: [Jonathan Boone](#) (601-631-5502) Submitted On: Mar 20 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Jason Mooney](#) (601-631-5614) Submitted On: Aug 22 2013

Current Comment Status: **Comment Closed**

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Patent 11/892,984 [ProjNet](#) property of ERDC since 2004.
