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## FACSIMILE COVER SHEET

TO: Benjamin Jones

FACSIMILE PHONE NO: (501) 682-0880

FROM: Kerry D. Chism

TOTAL NO. OF PAGES SENT (INCLUDING COVER SHEET): 3

RE: Vern Nelson, preliminary engineer's report

DATE/TIME: 10/18/13 @ 4:24p.m.

OPERATOR: KDC

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## NELSON ENGINEERING

Nov. 12<sup>TH</sup>, 2013

1601 Innsbrook, Harrison, AR 72601

(870) 365-8056

TO: KENNY TREAT

RE: TIRE DAM, MOUNTAIN HOME, ARKANSAS

DEAR MR. TREAT:

I HAVE REVIEWED THE SURVEYOR'S TOPOGRAPHICAL MAPS OF 9/23/2013 WITH A VIEW TO INCORPORATING AN ADDITIONAL 9065 30"X40"X66" CAR TIRE BALES INTO THE DOWNSTREAM SLOPE OF MY ORIGINAL DAM DESIGN.

### THESE ARE MY RECOMMENDATIONS:

- 1) THE LOWER PORTION OF THE DOWNSTREAM SLOPE IS TOO STEEP @ 2:1; IT SHOULD BE FLATTENED TO 3:1 BY PLACEMENT OF 3,000 TO 4,000 BALES WITH APPROPRIATE EARTH COVER.
- 2) THE ADDITIONAL 5,000 TO 6,000 BALES CAN BE PLACED FROM THE TOP OF THE DAM AS PER MY DRAWINGS TO INTERCEPT THE 3:1 SLOPE NEAR THE TOE OF THE DAM. THE FINISHED SLOPE FOR THIS PORTION OF THE DOWNSTREAM EMBANKMENT WILL BE 7%±.
- 3) ALL INSTALLED BALES SHALL ABUT EXISTING BALES OR SHALL KEY INTO EXISTING SOILS A DEPTH OF 30 INCHES.
- 4) BALES SHALL NOT BE STACKED DIRECTLY ON TOP OF OTHER BALE. THEY SHALL BE SEPARATED BY AT LEAST 6 INCHES WITH GRADED AND COMPACTED CLAY SOIL.
- 5) BALES SHALL BE TIGHTLY ABUTTED TOGETHER AS SHOWN ON THE DRAWINGS. THEY SHALL BE WALKED AND VIBRATED INTO PLACE WITH SEVERAL PASSES OF A BULLDOZER TO PREVENT DAMAGES TO WIRE BANDING.
- 6) A MINIMUM OF 12 INCHES OF CLAY COVER SHALL BE PROVIDED OVER THE COMPLETED BALES.
- 7) A MINIMUM COMPLETED SURFACE SLOPE OF 5% (i.e. 1' IN 20') SHALL BE PROVIDED FOR POSITIVE SLOPE DRAINAGE TO PREVENT PONDING ON THE EMBANKMENT.

1 OF 2

KENNY TREAT (CONT'D)

- 8) ALL DISTURBED AREAS SHALL BE SEEDS TO, A DENSE STAND OF GRASSES USING TILLAGE, SEED, LIME & FERTILIZER.
- 9) DO NOT USE FROZEN GROUND FOR BEDDING OR BACK FILLING BAILS.
- 10) THE ENGINEER SHALL PROVIDE INSPECTION ON AN AS-NEEDED BASIS. UPON COMPLETION OF THE WORK HE SHALL CERTIFY THAT THE SITE IS CLEARED OF ALL STORED BAILS AND THAT THE EARTH COVER AND SEEDING REQUIREMENTS HAVE BEEN COMPLIED WITH.

RESPECTFULLY YOURS,

