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September 14, 1988

Intera Technologies Inc. Suite 300 6850 Austin Center Blvd. Austin, Texas 78731 Tel.: (512)-346-2000 Telex: 792 352 Telecopier: (512) 346-9436

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RETURY ORIGINAL TO PDR HQ.

Mr. E/Jward Hawkins, Chief Licensing Branch 1 Uranium Recovery Field Office Region IV Box 25325 Denver, Colorado 80225



RE: Docket No. 04008904 1800, Responses to July 26, 1968 NRC Comments

Dear Mr. Hawkins:

Please find enclosed five (5) copies of INTERA/BP AMERICA responses to comments 1 a.d 2 from the NRC letter of July 26, 1988 identifying surface water hydrologic deficiencies in the L-B&r Reclamation Plan. These responses come as a result of several discussions betwoen our hydrologic consultant, Dr Alan Kuhn, and Ray Gonzales of your staff. We believe these responses answer the concerns presented in your letter and we therefore assume that all outstanding deficiencies have been resolved. We look forward to final approval of the L-Bar Reclamation Plan, which we understand is forthcoming shortly.

Based on your letter of May 27, 1988 expressing no fatal flaws in the Reclamation Plan, your letter of July 26, 1988 capressing near completion of Reclamation Plan review and the two deficiencies (addressed herein) and telephone conversations with Scott Grace which indicated he knew of no other outstanding deficiencies or issues and could see no record why construction should not start, BP AD and awarded a reclamation construction contract to Twin Mountain book Company effective August 16, 1988. Reclamation activities have begun

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Gade Safe 88-1249 at the site and the preliminary schedule indicates reclamation activities will be completed by $\kappa_{\rm P} \ll 1$ 10, 1989.

INTERA and BP AMERICA appreciate the thorough review NRC has given this Reclamation Plan. We also appreciate the assistance NRC has provided to BP AMERICA in carrying out its commitment to an environmentally sound site closure.

We look forward to final Reclamation Plan approval and remain available to assist the NRC in any way to expedite the process.

Sincerely,

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T.G. Osborn Project Coordinator

TGO:111

cc.: G.E. Crisak Ralph DeLeonardis

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INTERA RESPONSE TO NRC COMMENTS OF JULY 26, 1988

COMMENT 1.

The design basis flood used to design the shape of the top of the pile and the swale where the flood passes over the impoundment was not conservatively derived. Based on our independent evaluations, the proposed rock size for the swale would not be adequate. The design basis flood should be recalculated, as we have discussed with your consultant, and the swale redesigned. The changes in the design could include increasing the size of the rock, widening the swale, or a combination of these. Also, you may wish to consider redesigning the top to eliminate the swale and instead, direct flows over the entire length of the embankment outslopes. This option, however, would necessitate that the rock size on the embankment outslopes be increased to accommodate the larger design flows.

RESPONSE TO COMMENT 1.

The design basis flood of the top of the pile has been recalculated using an ultraconservative runoff coefficient of 1.0. As a result the cover swale has been redesigned and the rip rap criteria of NUREG/CR-4651 have been incorporated. The calculation and sketches for this redesign are enclosed.

We must point out that our decision to redesign to the above criteria does not reflect our agreement with the appropriateness of the criteria. We believe using a runoff coefficient of 1.0 for an area of vegetated ground with a very slight slope is unreasonably conservative. A tiled roof or asphalt parking lot would yield a lower runoff coefficient than 1.0. Using a runoff coefficient of 1.0, which assumes that every drop of water turns into runoff, should also greatly reduce any concerns regarding infiltration, which was mentioned as a possible concern in the July 26, 1988 NRC letter.



NUREG/CR-465? is a report of results of rip rap tests in plumes on materials no larger chan about six inches. The appropriateness of extrapolating those results to non-plume situation and larger materials is yet to be demonstrated. We therefore question its use as the regulatory guideline under circumstances such as those that exist at the L-Bar site.

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COMMENT 2.

Our independent evaluations of the flows used to design the diversion ditches indicate that they are acceptable. Nowever, the method used (Manning's equation for uniform flow) to estimate flow depths and velocities in the channels is not constructive, tending to underestimate the need for erosion protection. Our evaluations, which were performed using gradually varied flow calculations (the computer program HEC-2 was used) indicate that there are a few locations in the north channel where erosion protection may be required because velocities exceed 3 feet per second (fps). Velocities above 3 fps on bare soils are assumed to be erosive. Likewise, in the southern channel, flows exceed 3 fps, particularly in areas from the sedimentation/stilling basin to the outfall areas. The upper end of the sedimentation/stilling basin and the "G" portion of the southern channel may also need additional erosion protection. You should reestimate velocities and water surface elevations in the diversion channels using gradually varied flow conditions and redesign the channels accordingly. The redesigns may consist of placing rock in certain sections of the channels, widening and/or flattening the channels, or some combination thereof.

REPLY TO COMMENT 2.

The design of the diversion channels at L-Bar incorporated numerous levels of conservation which, when taken together, clear'v result in a design which is more than adequately conservative to address the concerns expressed in the July 26 NRC letter. A letter explaining these conservatisms from our hydrologic consultant, Alan Kuhn, is attached.

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ALAN K. KUHN, Ph.D., P.E. CONSULTANT IN GEOLOGICAL ENGINEERING AND APPLIED GEOSCIENCES 13212 Manitoba Drive NE, Albuquergue, NM 87111-2955 505-298-9839

August 19, 1988

Dr. Tom Osborn Intera Technologies 6850 Austin Center Blvd. Suite 300 Austin, TX 78731



CONSERVATISMS INCORPORATED IN THE DESIGN OF DIVERSION CHANNELS L-BAR URANIUM OPERATIONS RECLAMATION PLAN

Dear Tom:

On August 4 I had a meeting at the Denver NRC office with Ray Gonzales concerning the NRC letter to BP America of July 26. That letter stated that the L-Bar Reclamation Plan was "deficient" in two areas related to hydraulic design. The first area had to do with the design basis flood for runoff control from the top of the covered pile. Mr. Gonzales stated that the NRC required that a runoff coefficient, C, of 1.0 be used to calculate the runoff from a PMP event. A value of 1.0 means that it is assumed that every drop of rainfall turns into a drop of runoff, with no infiltration, detention or retention of any water on the pond cover. This assumption is conservative in the extreme. However, I have completed a redesign of the top swale on the pond cover and the front slope swale for the control and discharge of the runoff assuming a C = 1.0.

In addition to the use of the C = 1.0 value for determining runoff, the NRC now requires that the Mannings coefficient, n, and the sizing of riprap follow the results of test reported in NUREG/CR-4651, a report of results of riprap tests performed in flumes at Colorado State University and first published in May, 1987. The size of material tested in the CSU program included no sizes larger than about six inches. I have called NRC's attention to the fact that much of the riprap to be used at the L-Bar will be larger than the maximum size tested by CSU, and therefore, the 1 sults of the CSU tests might not be applicable to all of the L-Bar riprap. NRC (Ray Gonzales) has responded by saying that while our riprap sizes exceed the range of sizes tested by CSU, they believe that there are no better criteria to use and, therefore, the design guidelines in NUREG/CR-4651 should be used for the design of riprap at the L-Bar. The redesign of the top and front slope swales which I have just completed follows the design criteria of NUREG/CR-4651 and uses discharges resulting from a runoff coefficient of 1.0.

The other "deficient" area sited by NRC's letter states that NRC believes the diversion channel designs are "acceptable," but that the method used for design is "not conservative." NRC based

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their evaluation, based on calculations they made assuming gradually varied flow and using the computer program HEC-2.

In my meeting with Ray Gonzales on August 4, I described to him the conservatisms incorporated in the present design of the diversion channels. He stated that he was not aware that we had already incorporated several levels of conservatism and suggested that I write a letter enumerating the conservatisms in this design. I believe that the conservatisms are already clearly discernible in the design summary and the detailed calculations appended to that summary. However, for the sake of expediting the review and approval of the diversion system designs, it may be useful to list the design assumptions, methods and parameters taht have already led to a very conservative design of surface water diversion channels. These designs include the following sources of conservatism:

1. The probable maximum precipitation (PMP) one-hour local storm event was used for computing the design sunoff to the diversion system. The PMP estimates were based on HMR #55A and provide an estimate of the largest-ever predicted storm event of a duration most likely to produce the greatest runoff for an area of less than one square mile, applicable to the L-Bar site. The authors of NUREG/CR-4620 have stated that the computational method for PMP rainfall intensities in such small watersheds are "extremely conservative" (NUREG/CR-4620, F. 12). The entire hydrograph for this storm and runoff event would last only a few hours, with the peak discharge rate providing the design basis discharge for all diversion channels. This peak discharge would last for much less than an hour. Therefore, for a design protection period of 200 to 1000 years, we have used the greatest-ever storm event with a recurrence interval well over 1000 years and for which the duration is less than an hour. Even if left unprotected against such a storm event, the diversion channels would suffer a relatively minor amount of scour during this very short period of peak discharge. Therefore, using this runoff event as the design basis event is a very conservative assumption and produces an extremely conservative input parameter (i.e., the design discharge). 2.

The runoff coefficient, C, used for the calculation of runoff from the tributary areas to the diversion channels was 0.7. This value is equivalent to the lower end of the range used for asphait pavements or roofs. Compared to natural ground it is roughly equivalent to the upper end of bare clay surfaces. The selected C value of 0.7 is very conservative when

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compared to the recommended values presented in Tables 4.4, 4.5 and 4.6 in NUREG/CR-4620.

3.

. . .

- To simplify calculations an assumption was made that all flow entering a reach of a channel from the area tributary to that reach entered at the top of the reach as a slug or injection of discharge. As a result, even though uniform flow was assumed (again in order to simplify calculations), the channel dimensions in each reach were based on the maximum discharge that would occur at the bottom of the reach rather than the average discharge for the entire reach. Therefore, in every reach the dimensions are conservatively large, and this conservatism can be quantified roughly as the difference between the average discharge that would occur along the reach and the maximum discharge at the downstream end of the reach. For the south channel, for example, from station 0+00 to the discharge point, the discharge was assumed to be constant at 5185 cfs. This value is approximately 21 percent higher than the calculated discharge at the upper end of the south channel (4284 cfs) and is approximately equal to the discharge that would exit the bottom end of the channel.
- 4. As a result of a meeting with Ray Gonzales on December, 15, 1987 the maximum permissible velocity for all channels was clanged from higher values given in standard hydraulics references for the materials expected in the channel bottom to a uniform and conservative value of 3.0 fps, a value deemed by Headquarters NRC to be appropriate for exposed soils. The test pit excavations and other site explorations have all indicated that we can expect most if not all channel beds to be on hardpan clay or shale. The maximum permissible velocity for such material is listed by most investigators (Fortier and Scokey, 1926; Lane, 1955; and Brater and King, 1976) to be 6.0 fps. The NRC calculations using the gradually varied flow method of calculation and the HEC-2 compu'r program indicate that velocities could be as high as 5.0 to 6.0 fps. My own calculations assuming gradually varied flow produce a maximum velocity near the discharge end of the south channel of 5.72 fps. Therefore, the present design still results in maximum velocities that are below the maximums considered permissible by most experts in the field. It should also be emphasized that these peak velocities would occur only during the peak of the PMF hydrograph (i.e., for less than an hour in 200 to 1000 years, if ever). Therefore, the channels have been designed to protect against the

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greatest erosional stress which might occur in virtually an instant of time within a span of thousands of years.

5. The layout of the diversion channels is such that the erosion of the channel beds themselves will never expose tailings. None of these channels are located immediately adjacent to or on top of covered tailings. Therefore, even if the channel bed should erode, the eroded material will be natural ground, not contaminated materials.

The conservatisms described above are the most important of those used for the design of the diversion systems at the L-Bar. Some others include the conservative rounding of calculated numbers and the assumption of lineal flow (as opposed to sinuous natural channel flow) in determining the times of concentrations for discharge calculations. Given these multiple levels of conservatism already incorporated in the present design, it is quite apparent to me that the concerns expressed in item #2 of the NCR's letter of July 26 have been adequately addressed in the existing design. There is no need to change the design in the direction of greater conservatism; and, therefore, I recommend that a copy of this letter be forwarded to the NRC as an explanation of the current design and the adaquacy of its conservatism.

Yours truly,

alan K. Kulu

Alan K. Kuhn

ALAN K. KUHN, Ph.D., P.E. CONSULTANT IN GEOLOGICAL ENGINEERING AND APPLIED GEOSCIENCES 13212 Manitoba Drive NE, Albuquerque, NM 87111-2955 505-298-9839

August 19, 1988

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Mr. Scott Grace Uranium Recovery Field Office U.S. Nuclear Regulatory Commission F.O. Eox 25325 Denver, CC 80225

REDESIGN OF COVER SWALES USING NUREG/CR-4651 CRITERIA L-BAR URANIUM OPERATIONS RECLAMATION PLAN

Dear Scott:

At Intera's request I am submitting the enclosed sketches and calculations for the redesign of the L-Bar cover swales for NRC review. This submittal responds to item all of NRC's letter of July 26, 1938. I met with Kay Gonzales on August 4 to discuss that letter and his concerns about the hydraulic designs. Following that meeting I redesigned the cover swales (top and front slope) using a runoff coefficient of 1.0 and the criteria of NUREG/CR-4651, which apparently represents the current NRC technical position on design of riprap. The decision to redesign to these criteria was taken after consultation with Inters and was based on confiderations of expediency; I believe that NUREG/ CR-4651 criteria have not been demonstrated to be applicable to riprap larger than d50=5", and a runoff coefficient of 1.0 is unreaschably conservative.

In a separate letter to Intera, I have addressed item #2 of NRC's July 26 letter. I understand that they will forward a copy of that letter to you. I am confident that it will demonstrate that the diversion channel designs included more than sufficient conservatism.

NRC's expeditious review of the attached material will be greatly appreciated.

Yours truly,

alan K. Kulu

Alan K. Kuhn

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cover scope 8/2/88 L-Bar 12 and Runoff A.K. KUMN 84-103, 68 Rex, 1 TO re-calculate runoffe PURPOSE: cover using runoff coeff. Staff position (Ret. Thelow) and to redesign swates per criteria of ref. 3 bolow Revences: 1) Telcon AKK to Ray Congales of USNRC 7/15/88, Notes in AKK 'tolcon record #5. ETS ETS SHE 2000 42 43 2) calc. 84-103.08 14 1/22/88 (Reno) 23.33 3) NIREG / CR-4651, May 1987 4) NUREG/CR-4620 5) French, 1985, Open - Channel Hydraulics CALCULATONS; 1) Hydrologic barameters for design storm (PMP) and its 1.) Parameters from the coner coles. Per Ref. Z. One hour local PMP = 10.96 t L'impest flort path = 20001 S, slope gradient = 0.002 Te = 0.64 hrs = 38.5 min rainfall depth = 9.954 intensity = 15.5"/hr. 1.2) Revised Parameters C= rynott coeff. increased Trom 0.5 40 1.0 = unit width discharge = cia where a = 2800 \$43560 ft 2/acre

A.K. KUHN and Runoff 84-103.68 Rev. 1 18 CALCS (1.2 cont'd) B= 1.0 (15.5) 2000/43560 = 0.996, say 1.0 cfs Q= area discharge = C: A area = A = 130 acres (Ref. 2) Q=C:A=2015 cfs Y = sheat flow depth 000 = [1.486 Ste] 3/5 n=0.03 22-141 22-142 $= \left[\frac{10(0.03)}{1.486(0.02)^{1/2}} \right]^{3/5} = 0.6274$ 6 V = sheet flow relocity = f/y = 1.0/0.62 = 1.61 fps. < 3.0 Aps allowed, UK 1.3) Flow convergence concentration $g' = \sqrt{\gamma'} = 3.0 \left[\frac{g'(0.03)}{1.486(0.002)^2}\right]^{3/5}$ = 1.86 g '3/5 8'3/5 = 1.86 g'= 4.72 cts y'= 1,57 ft, same as Rov. 0 Bradius from conter of Vos. o. are length at x, 0=180° = \$/q - 2015/4.72=427

A.K. KUHN and Runoff 84-103.08 Rev. 1 3/8 cales (1.3 contid) r = arc leight = 427 = 136 A. Alternative method, for check Q=AV= 3.0(A) Y=R, hyd radius SHEETS SHEETS SHEETS $R = \left[\frac{V n}{1.486(5)'2} \right]^{1.5}$ 300100 42 44 = 1.58 = y', as in Rel.0 222 6 A= 2015/30=672 FAZ width of flow at V=3.0 = 672/y'= 672/1.58=425' VS. 427 by other nethod (Note: Because C=1.0, is used as a very conservative value. the Rev. O conservation of very a 120° are for the flow source to calculate i for rock protection can be climinated) > Swale with fiprap is needed contours to 136 distance 2.0) FRONT SLOPE SUTPLE DEGIAN (Portion on 5H: IV Front slope) 9 = 2015 cts + rainfall on small = 2015 cts + 0,78 cts/4 (Ref. 2, Bill) - XBX2 (for increase to C=1.0) For estimating total Phan assume B= 1301, then THE AT A DUTIES IN THE AVERAGE AND Q= 2219 cts on front slope

A.K. KUHN 84-103. 68, Rev. 1 48 AND RUNOFF CARCE (2.0 cont'd) 2.1) select doo, diro of Riprap It b (channel bed width) I BO', the g = 2214/130 9 = 17.1 cAs/A. This exceeds tooted range of NUREG 4651, so use: SHEETS SHEETS SHEETS 2002 dso= 12", d,00=17" 42 42 222 2.2) Determine not riprop channel n= 0.0456 (dsox5) Ret. 3, Eq. 4.8 6 for dso=12" + 5=0.2 \rightarrow n = 0.0522.3) Determine allowable unit discharge using gradure of riprop per Fig. 4.3 Ref. 3 as upper limit. 8+ For 5=0.2, 0/50=12" -> gr = 16.1 cts estrapolating 2.4) Determine necessary channel > B=9/9+ = 2219/16.1 = 138 A4. 2.5) Determine amount of interstitial Flows, q: and Qi and Qi -----9# = 0.079 (Cu -0.94 5 0.06 107) 1.990 (g & so) "." and many construction of the second at a shore of an effective processing a Cu= 1.62 = deo, ussuming. (See Attachment A)

A. K. KUHN 5/8 84-103.68, Rav. 1 AND PUNCEF CALCS (2.5 contid) 5=0.2 np=0.45 (Ref. 3, Table B.1) 8 = 0.53 cts/in g: = gt x 17 " thickness of SHEETS SHEETS SHEETS riprap = 9.0 crs 888 9; for B= 138'= 9.0x138' = 1242 cfs ::: 223 2. 6) Determine Open Channel Flow, Po Goverflow (apen channel flow, Po abere riprop) 6 > 90 = 138 (16.1-9;) = 980 cfs 27) Determine depth of open channel Ad Yo= [1.48615] \$15 Ref. 4.46 = 0.70 A. = 1.15 ft. if no interstitud flow occurs Use design depth of dios of ripiap with one lift of diss = 17" and an and the second second

8/18/80 CONER SLOPE L-BAR 6/8 AND RUNDEF A.K.KUHN 84-103.C8, REV. 1 CA205 (3.0) 3.0) TOP SWALE DESIGN Design to provide a control rection upstream of Front Swale to channelize, How, and a transition section at 5=0.002 for direction SHEETS SHEETS SHEETS 2005 4 4 4 3.1) control section 222 6 Use B=, Bot front slope Swale, 1381 Assume q = 16.1 cs/4, although actually lower (2015/188 = 14.6 cfs/4 for safety an added 10% safety S = 0.01 selected to be steeper than coveral Hatter than radial section to provide reduced' relocities. 150 = 4" (Ret 3, Fig. 4.3) di00 = 6" n= 0.027 (Ref. 3, Epn. 4.8) Yo= firm death asseming no interstitich flow (conservative) $= \int \frac{16.1 (0.027)}{1.486 \sqrt{0.01}} \int = 2.05^{1}$ Yo Vo= 90/yo= 7.85 495

8/18/88 A.K.Kuth COTER SLOTE L-BATC 84-103.68 Rev. 1 1/2 AND RUNOFF - CALCS (3.1 cont'd) length of control saction, set at 1/2 B, = 69 (See Figure 84-103, (.8.3) Elevation at cost and is SIG7 + 69 (0.01) = 6197.69 STI STI SHEE 3.2) Transition or Radial Flow 50 section 42 42 outer limit = limit of Viprap protection = 136 A. from cleater of corrature (c.o. c) (page 3 these calco) See Figure 84-103. C8.3 222 6 Contour aler. 75 6199+ 136×1,002 = 6199.27 Inner limit = outer boundary of control section 5, slope, will vary around this section being steepst along 45 % radii from coci ah/al = (619-27-6197.60/445' (seeled) = 0.0355 flatest along £: (6199.27-6197.69) 67'= 0.0236 the state of the second second second second second and (6199.27 - 6197)/67 = 0.0339 along break in slope (top of front slope) 3.2.1) Determine (prap sizes needed rap At r= 69 from 60.C are length = TTr = 217 and a second part of the second comparison and so and the second sec ing a new second of a second conservation q = 2015/217 = 9.30 ts/A. and the state of the second second and the second second

84-103, C8, Rev. 1 18 A.R. KUHN AND RUNDER CA2CS (3.2.1 cont'd) 9. will range from 4.72 cfs/A. at 1= 136 from C.O.C. 20 9.3 cfs/A. at r=69 from COC For 5 = 0.02 to 20.04 and g = 9.3 ds= 4" will be suitable based SHEETS SHEETS SHEETS En interpolations on Fig. 4.3 Ret 3 888 142 3.2.2) Determine flow depth disregarding interstitial flows using max g. and S 222 6 Y = [9.3 (0.033) 1.486 0.0355] 73/5 =1.06 2.159 where n= 0.04 \$ (4". 0.0355) = 0.033 Contour transition or radial section to provide smooth gradual changes from radially converging flow to channelized flow in control section per Figures 84-103. C8.3, CH.4, and C8.5)

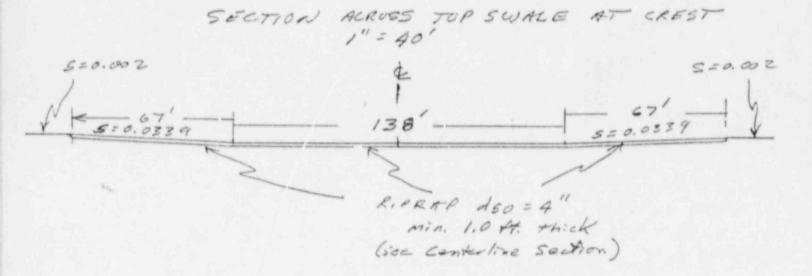
= 0 = dec/ = 13/ = 1.62 ~ ONHERRITY COEFFICIENT OF RIPRAP WITH DSOFIZ CAIC. 84-103. CB Par. DISTRIBUTION RITHCHMENT A # 55 Umin G ` LINFAR 0100 = 100 % FINER 21=090 N 50 alo = a 0 12. . 0 2:5

1.4 SWATE DESIGN DIMENSIOUS S. 1.0337 Ter OF 5:1 540PE AND FRONT SLOPE FIGURE 64-103. C8.3 REVISION OF 8/18/82 L-BAR REC. TLAN 100015 PLAN VIEW A. K. KUHN eler. 6197 COVER 6199.27 6.0. C. (elas. 6197) 51 42 SWALE VIE 6197.69 0.22.7 <u> 4198.0.</u> -6198.5 . 1361 FRONT SLOPE - - - 5-19-PEZO'O 25 15 100 121=1 63 0.002 9=04 5 InjFLOW SECTION 2 138' WIDE 64 Land R. PRAP dSo= 4" dio= 6" Ricker dosa, In 5= 0.0276 to 0.0355 elev. 6197 Perion 4= 2219 CONTROL SECTION Dosvan Q= 2015 67.14 5:0.02 5: 0.01 radius 136' ż KARIAL

FIGURE 84-103. C8.4 SWATE DESIGN DIMENSIONS 0= 4 of repose REVISION 15 2/18/88 5=0.0023 COVER AND FRONT SLOPE. 1 4 = 0 \$ 1 4 50 = 4 11 tiller layer 6" min. T.XANSITION DETRIL L-BAR REC. PLAN thickness 12" min. R.K. KUHN 1 200 = 6 " 1 = 11 ×~2.5% . 67 5=0.0236 450 = 9 M RIPARP 21775 N "LI=05P. (see detail SECTIN PRONG CENTERLINE 1"= 40 HAV der (41/4+) <50 1 6 = 001 p 5 < dis (tiper) < 40 Trans, the 520.01 ds0=6" × 69 FILTER LAVERS dso (ripicy) d85 (filler) (dustis) 5'p filter layer 6 min. thickness 17" min. dso=12" divo=17" RIPRAP 5=0.2

FIGURE 84-103, C8, 5 L-BAR REC. PLAN COVER AND FRONT SLOPE SWALE DESIGN DIMENSIONS

REVISION OF 8/18/48 A.IL. KUHA



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SECTION ACRUES FRONT SLOPE SWALE 1" = 40'



