WM-48

Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, New Mexico 87115

RETURN ORIGINAL TO PDR, HQ.

FEB 07 1991

Mr. Ramon E. Hall
Director, Uranium Recovery
Field Office
Region IV
U.S. Nuclear Regulatory Commission
P.O. Box 25325
Denver, CO 80225

Dear Mr. Hall:

Enclosed for your information is a Class III Project Interface Document (PID) No. 03-S-41 for the Durango, Colorado, Uranium Mill Tailings Remedial Action site. The PID involves a change for the completion date in Specification 01010-1.8.A. In addition, a copy of the previously sent Class II PID 03-S-30 is enclosed per the request of Dawn Jacoby of your staff.

Should you have any questions, please contact Steve Hamm of my staff at FTS 845-5640.

Sincerely,

Mark L. Matthews
Project Manager
Uranium Mill Tailings Remedial Action
Project Office

Enclosures

cc w/o enclosures:
M. Abrams, UMTRA
D. Gillen, NRC

91-0254

MK-FERGUSON
A MORRISON KNUDSEN COMPANY

UMTRA PROJECT OFFICE
PROJECT INTERFACE DOCUMENT

Site	Date	PID No.	Site No.	Vic Pro No.
Durango, Colorado	12/31/90	03-S-41	03	
Originator and Location	**Phone**	**Organization**	**Answer By:**	**References:**
Tom Jennings, APO	(505) 766-1667	MK-Ferguson		Subcontract:
Subject				Subcontract No: DUR-86-02
Extension of Subcontract Completion Date				

Description of Problem and Recommended Solution ☐ Clarification ☒ Change

Problem: The Subcontract completion date of Specification 01010-1.8.A is December 31, 1990, but because of delays to the work, the Project cannot be completed by that date. An extension of time to June 30, 1991, is considered to be in the best interest of the Government.

Solution: In 01010-1.8.A, Change "December 31, 1990" to "June 30, 1991".

Originator _____ 1/3/91
Signature Date

Disposition ☒ Approved ☐ Disapproved ☐ Approved as Noted

Criteria Change? (If Yes, DOE approval required) ☐ Yes ☒ No

CONTROLLED WORK COPY

RAC Site Manager	Bill Zebuck	1/1/91
RAC Project Control	W. Lang W. Thomson	1/4/91
RAC Engineering/Design	J. N. Glenn	1/3/91
RAC Construction Engineer	Robert E Carey	1/4/91
Reviewed for Quality Requirements	Steven Tilstra for DCC	1/4/91

Signature Date

Distribution	Name	Location	Name	Location
RAC Site Mgr.	M Thomson		RAC Constr. Engr. Mgr.	R. Carey
DOE Proj Engr.	J Hamp		RAC Qual. Mgr.	P Cole
TAC Site Mgr.	R Edge		Other	J Okelberry D Sanders
RAC Site Qual. Engr.	T. Harrell			J Thomas
RAC HS&E Mgr.	F. Peterka			M Adams

Cost/Time Est.
☐ Attached
☒ Not Required
☐ DOE Approval Req.

0104C

MK-087-MM(10/84)
Revision 1

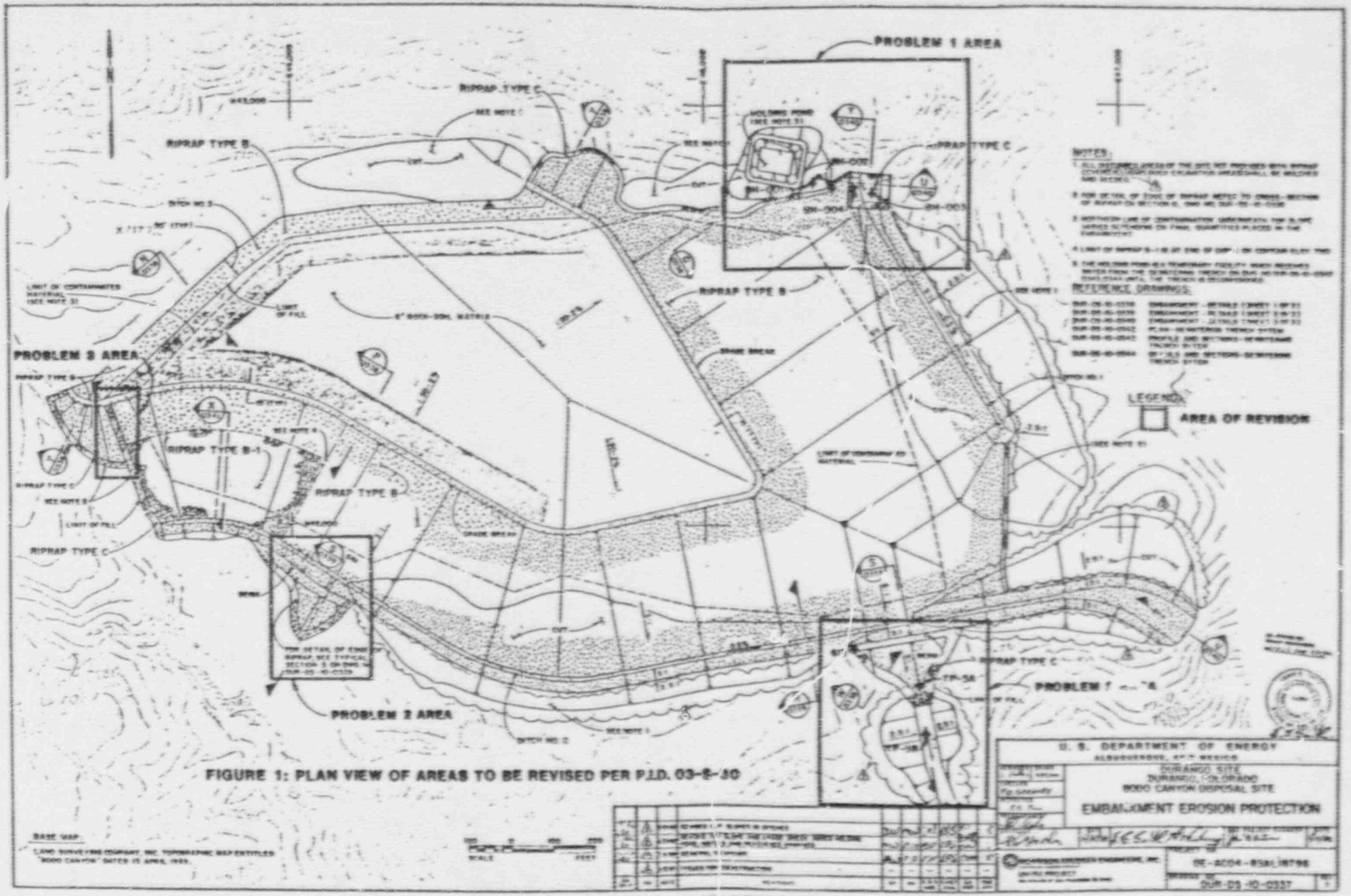


FIGURE 1: PLAN VIEW OF AREAS TO BE REVISED PER P.I.D. 03-8-30

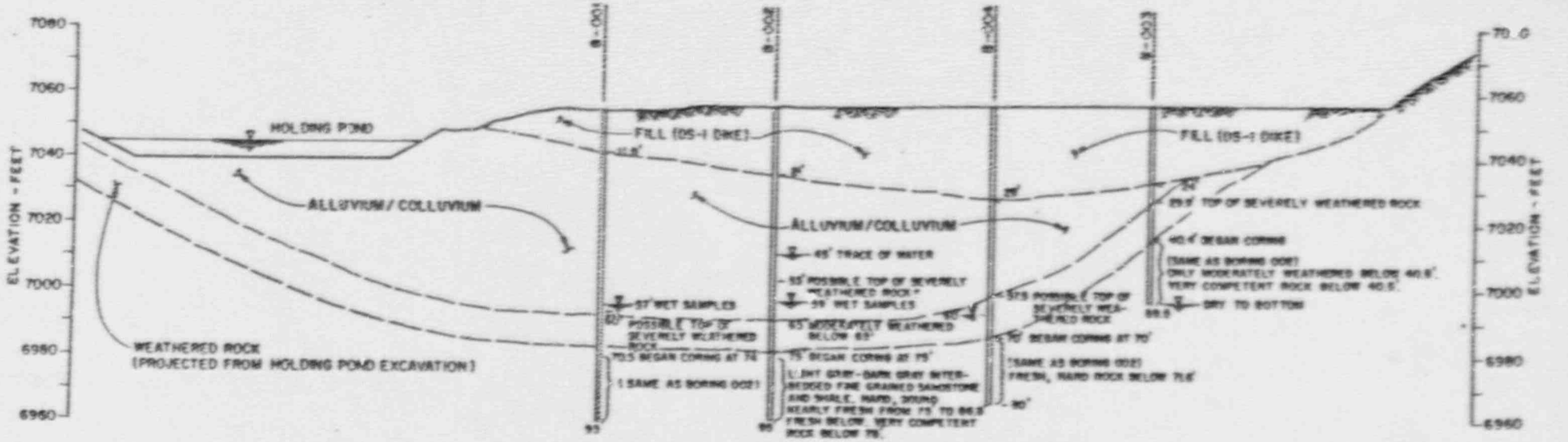


FIGURE 2.

PROFILE (LOOKING NORTHERLY)

0 30 60

SCALE FEET

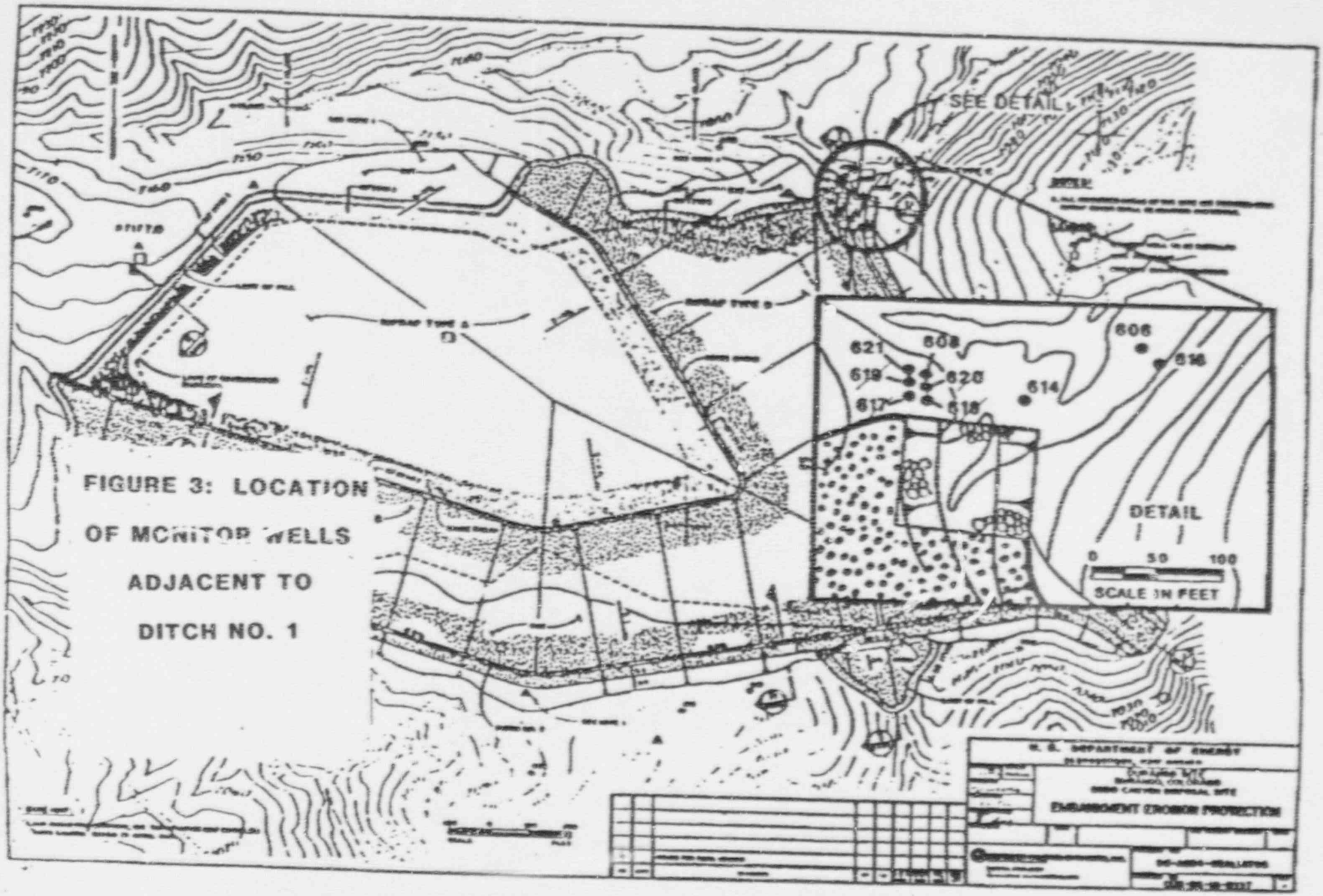


FIGURE 3: LOCATION OF MONITOR WELLS ADJACENT TO DITCH NO. 1

FIGURE 4: REDESIGN OF DITCH NO. 1 OUTLET

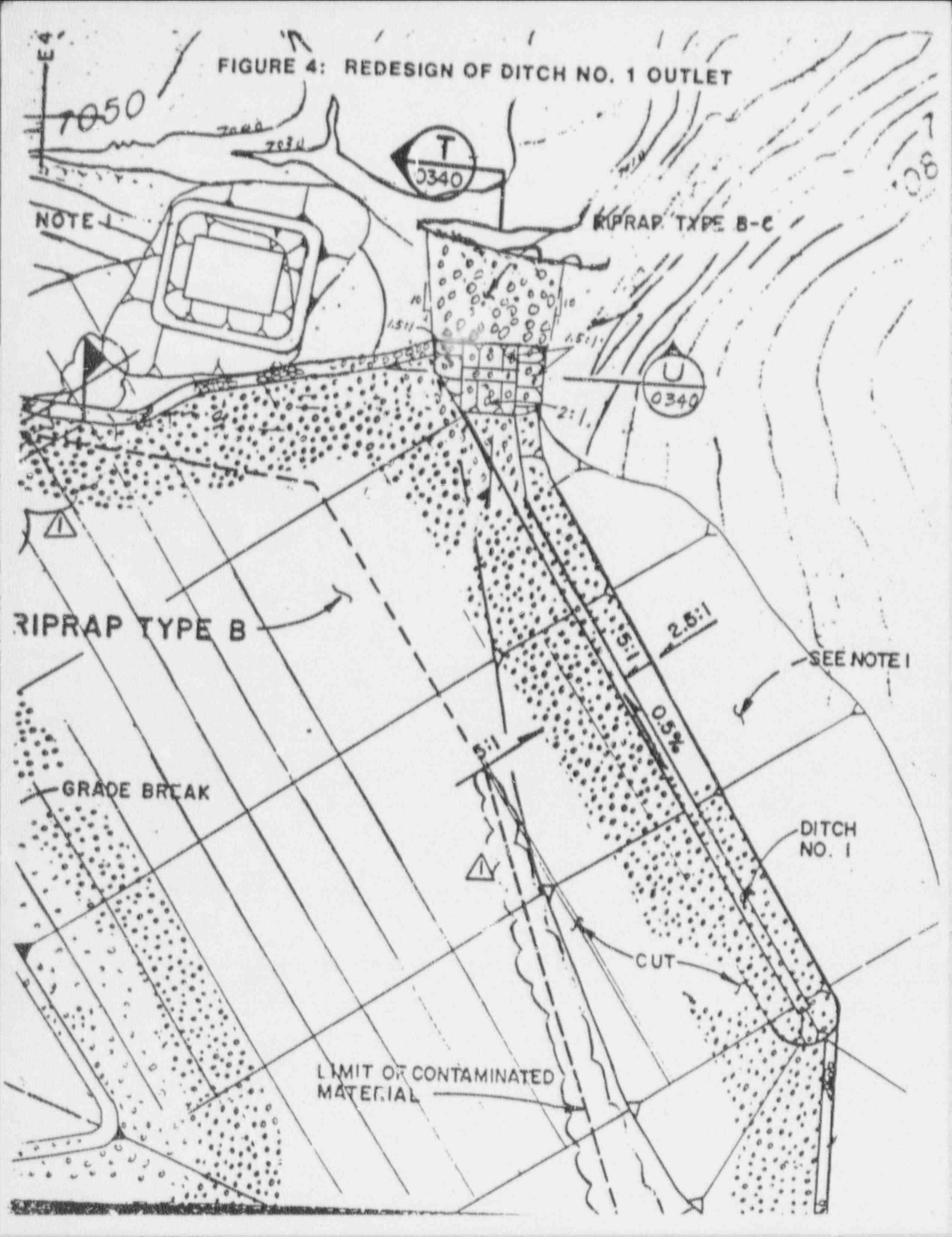
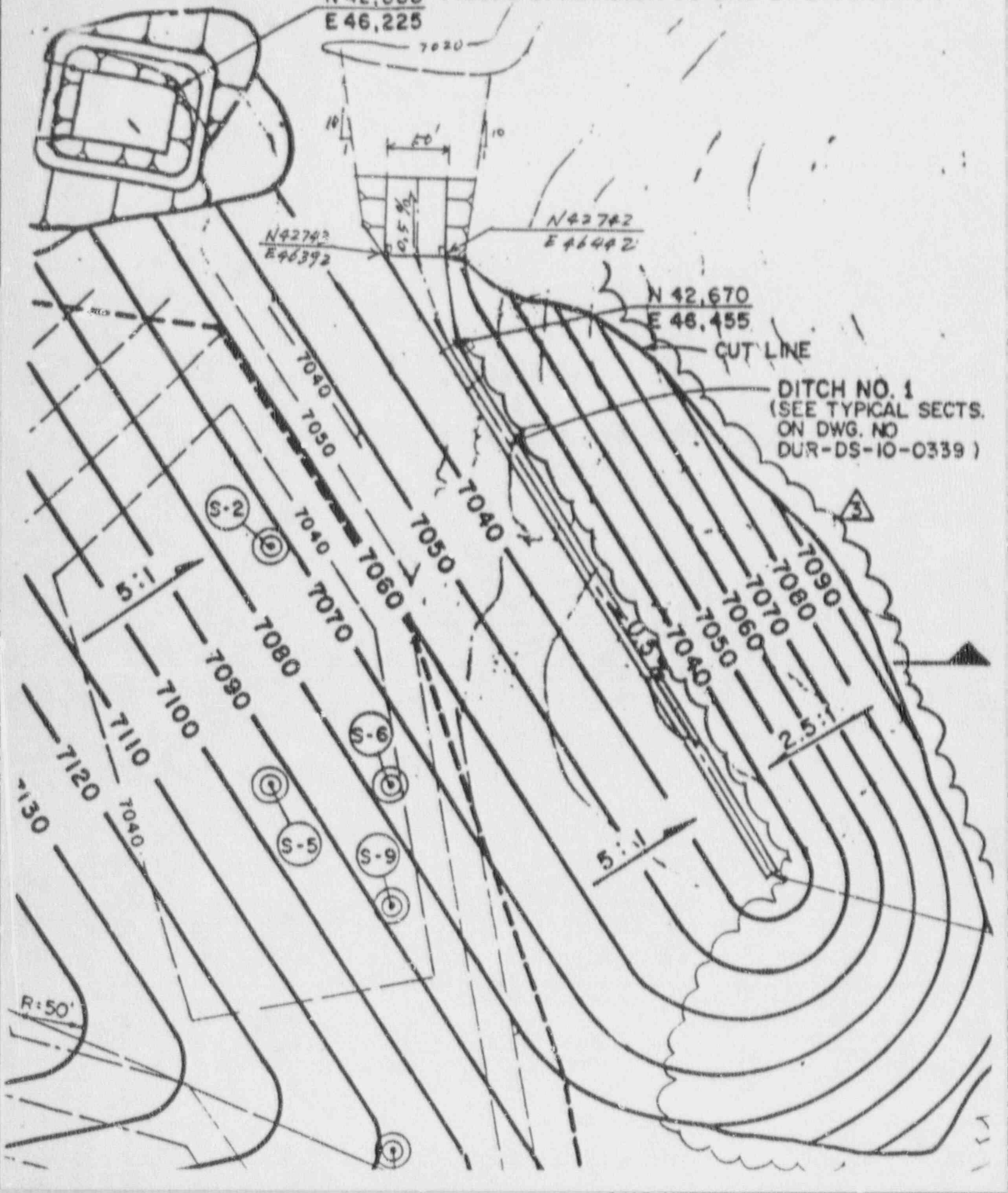
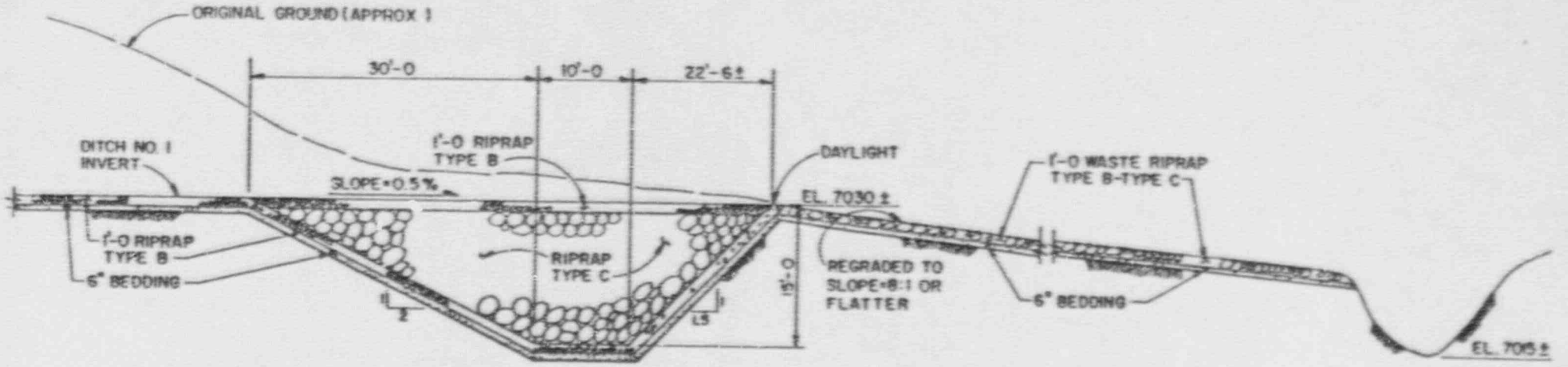
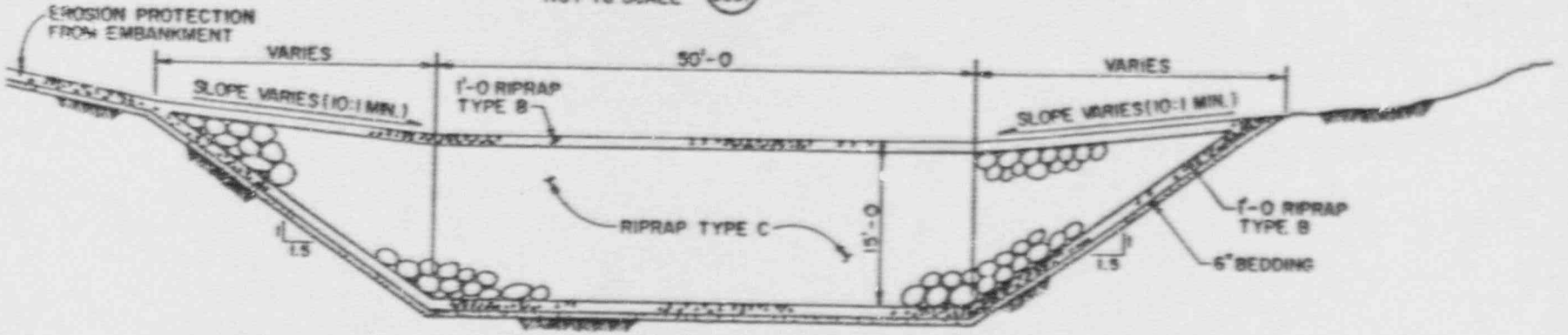


FIGURE 5: REVISION TO END OF DITCH NO. 1





OUTLET FOR DITCH NO. 1
SECTION T (0337)
NOT TO SCALE



OUTLET FOR DITCH NO. 1
SECTION U (0337)
NOT TO SCALE

FIGURE 6: SECTIONS T AND U REVISIONS

DURANGO SITE
DURANGO, COLORADO
BODO CANYON DISPOSAL SITE

EROSION PROTECTION
AT DITCH NO. 1 OUTLET

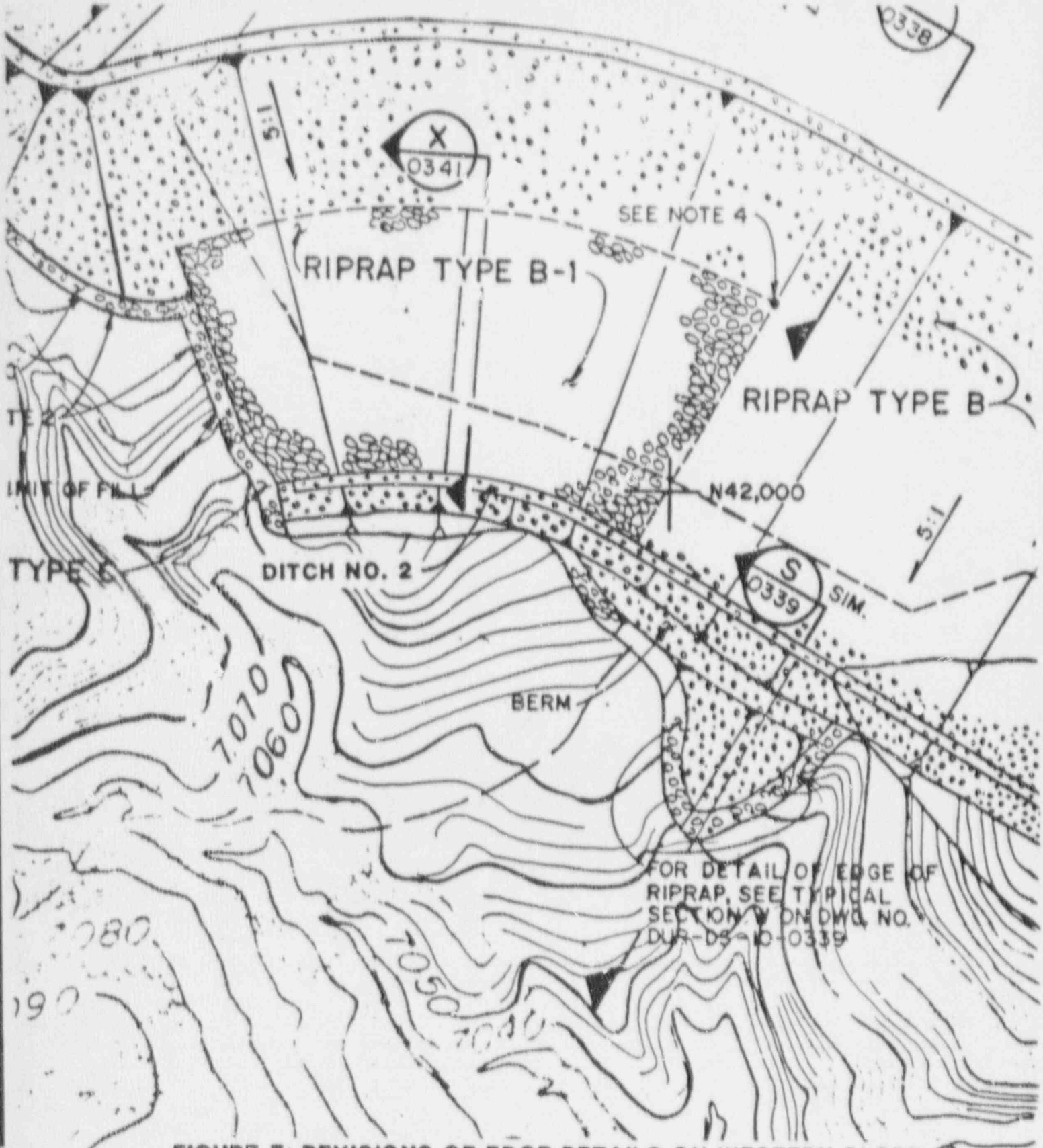
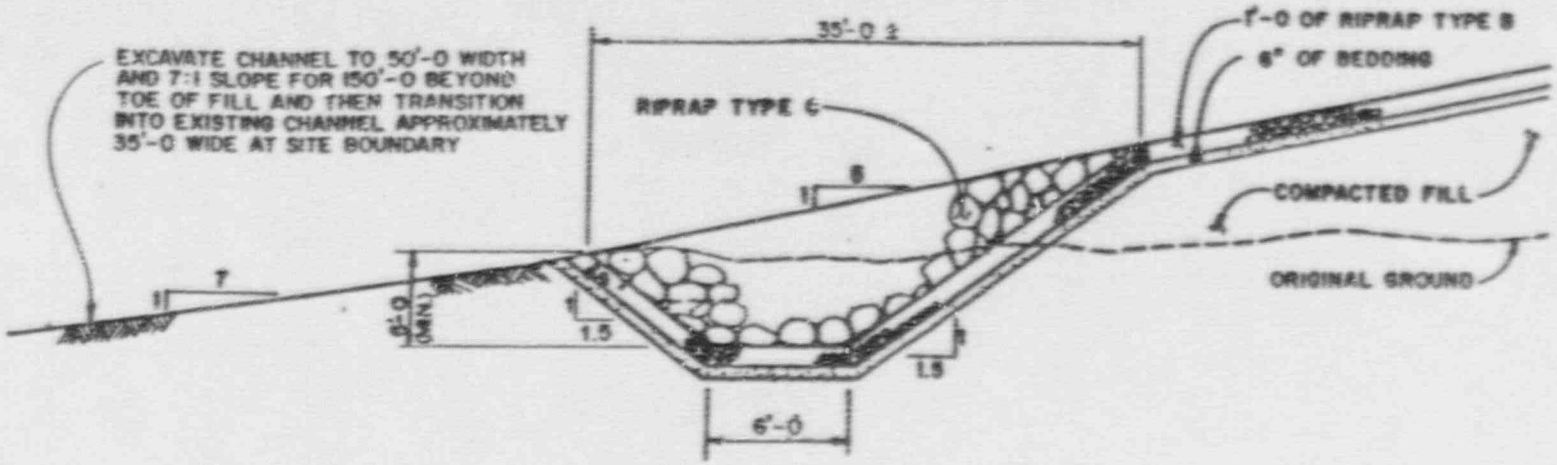
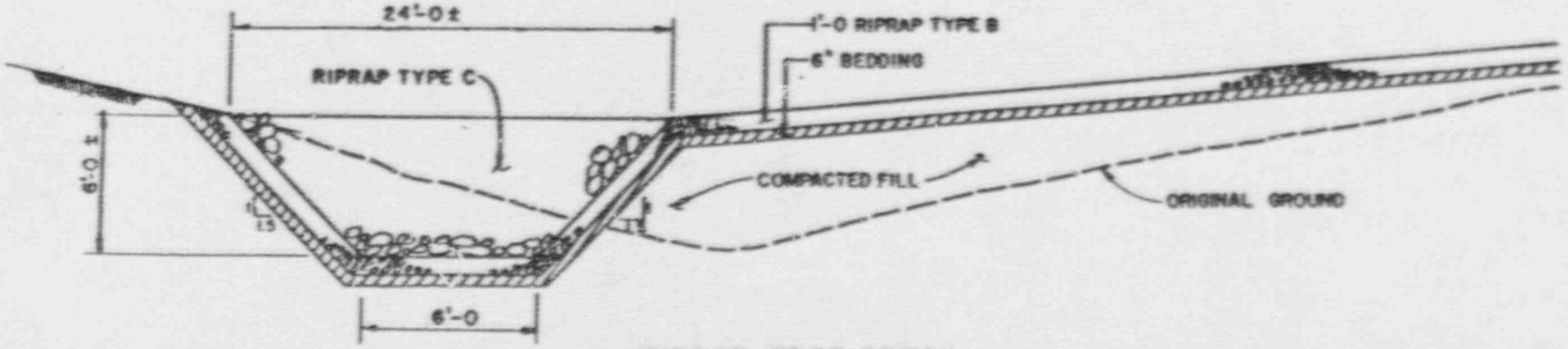


FIGURE 7: REVISIONS OF EDGE DETAILS ON WESTERN SLOPE AND SOUTHWESTERN DRAINAGE ALONG DITCH NO. 2



SECTION S (0337)

NOT TO SCALE



RIPRAP EDGE DETAIL

SECTION W (0337)

NOT TO SCALE

FIGURE 8: SECTION S AND W REVISIONS

MORRISON KNUDSEN

UMTRA PROJECT OFFICE
PROJECT INTERFACE DOCUMENT

PID0330.DUR
Sheet 1 of 3

Site: Durango	Date: 08/09/90	PID No.: 03-S-30	Site No.: 03	Vic Pro No.
Originator and Location: M. L. Wesely, SF	Phone: 415/442-7517	Organization: MKES	Answer By:	References: Subcontract: Subcontract No:
Subject: Redesign of the Ditch No. 1 Outlet and Two Drainage Outlets Along Ditch No. 2				

Description of Problem and Recommended Solution ☐ Clarification ☒ Change

PROBLEM 1: A drilling program was completed in June to help delineate the bedrock locations in the region of the Ditch No. 1 outfall. The plan view and profile of the outlet area are shown in Figure 1 and 2, respectively. The depth to bedrock at the outlet of Ditch No. 1 is much deeper than originally anticipated. If the original design to key into competent bedrock was implemented, the excavation of the outlet would cut into the adjacent observation wells (see location of wells in Figure 3) and undercut the existing holding pond embankment which contains the discharge water of the toe trench. It would also form a large reservoir for water exiting the ditch and affect the groundwater regime in this area.

SOLUTION 1: Revise the outlet structure on Drawing DUR-DS-10-0337 per Figure 4, revise the end of Ditch No. 1 on Drawing DUR-DS-10-0335 per Figure 5, and revise Sections T and U on Drawing DUR-DS-10-0340 per Figure 6. Add the following note to Drawing DUR-DS-10-0340:

Originator M Wesely 8/10/90
Signature Date

Disposition ☒ Approved ☐ Disapproved ☐ Approved as Noted

Criteria Change? ☐ Yes ☒ No
(If Yes, DOE approval required)

Class II

CONTROLLED WORK COPY

RAC Site Manager [illegible] for MWT 8/23/90
RAC Project Control [illegible] 8/21/90
RAC Engineering/Design [illegible] 8/10/90
RAC Construction Engineer Robert E. Cooney 8/21/90
Reviewed for Quality Requirements [illegible] 8/21/90
Signature Date

Distribution	Name	Location	Name	Location
RAC Site Mgr.	M. Thomson		RAC Constr. Engr. Mgr.	R. Cooney
DOE Proj Engr.	E. Dayler		RAC Qual. Mgr.	P. Cate
TAC Site Mgr.	E. Edge		Other	A. Goldman D. Jackson
RAC Site Qual. Engr.	T. Harrell			T. Hymas
RAC HS&E Mgr.	F. Rekla			M. Abrams

Cost/Time Est.
☐ Attached
☐ Not Required
☐ DOE Approval Req.

0104C

MK-067-MM(10/84)
Revision 1

"2. Riprap for the apron from the edge of outfall to natural drainage channel shall be Type B-Type C approved designated waste riprap from Wheeler Pit screening operations with approximate size range of 6 - 16 inches."

COMMENT:
Design of the outlet structure was reevaluated to determine what volume and size of rock would be required to maintain erosion protection for water discharging from Ditch No. 1. The attached drawings (Figures 4, 5, and 6) and supporting calculations present the proposed revisions. Changes include:

- Removal of the words "key into bedrock",
- Slope from ditch into outlet box steepened to 2:1 and subsequent shift of outlet further away from the northern drainage channel.
- Addition of a rock apron from the far edge of the outlet to the northern drainage channel to prevent gully initiation from water exiting the outlet box,
- Regrade slope of natural ground towards northern drainage channel to approximately 8:1, and
- Continue 1 foot of Type B riprap from ditch across top of outlet box.

PROBLEM 2: A similar situation of bedrock not encountered for a considerable distance occurs along the southern Ditch No. 2. Two small regions on the outside edge of the ditch were covered with riprap and edged with a key trench and spillway. During installation of temporary retention basins DS-3 and DS-4 rock was not encountered. Test pits in these regions indicate depths up to 23 feet. The site boundary, adjacent to the southeastern drainage, limits extension of the design if the trench must be excavated to key into competent bedrock.

SOLUTION 2: Revise Drawing DUR-DS-10-0337 per Figure 7 and revise Sections W on Drawing DUR-DS-10-0338 and Section S on Drawing DUR-DS-10-0339 per Figure 8. Revise Note 5 on Drawing DUR-DS-10-0335 to read "5. Existing channel shall be widened as noted in Section S on Drawing DUR-DS-10-0339."

COMMENT:
The southeastern and southwestern riprapped key trenches were also reevaluated. The drainage areas for both are quite small as shown in the attached supporting calculation. The proposed revisions are shown in Figure 7 and Figure 8 and include:

- Removal of the words "key into bedrock",
- Section W to be included in both areas and the top width set at approximately 24 feet,

PROBLEM 3: On the western edge of the disposal cell, the key trench is duplicated on an inner edge rather than only edging the outside rim. This extra detail is not necessary for maintaining a raw edge since it is in the middle of a 5:1 riprapped slope.

SOLUTION 3: Remove the inner key trench in the middle of the 5:1 slope on Drawing DUR-DS-10-0337 per Figure 7.