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**TIME-CRITICAL REMOVAL ACTION - EROSION
CONTROL AT THE INACTIVE FLYASH PILE**

08/17/93

DOE-FN/EPA

DOE-2764-93

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LETTER

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Department of Energy
Fernald Environmental Management Project
P.O. Box 398705
Cincinnati, Ohio 45239-8705
(513) 738-6357

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AUG 17 1993

DOE-2764-93

Mr. James A. Saric, Remedial Project Director
U.S. Environmental Protection Agency
Region V - 5HRE-8J
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590

Mr. Graham E. Mitchell, Project Manager
Ohio Environmental Protection Agency
40 South Main Street
Dayton, Ohio 45402-2086

Dear Mr. Saric and Mr. Mitchell:

TIME-CRITICAL REMOVAL ACTION - EROSION CONTROL AT THE INACTIVE FLYASH PILE

On March 24, 1993 a letter was sent to you concerning the Emergency or Phase I of the Time-Critical Removal Action to provide bank stabilization at Paddys Run Creek, adjacent to the Inactive Flyash Pile. Several discussions were held with you at that time to outline the specific activities planned to provide interim stabilization to prevent the discharge of wastes to Paddys Run Creek. The interim action consisted of a weighted rock berm approximately 220 feet in length. Authorization for bank stabilization was obtained from the Army Corps of Engineers (COE) through a Nationwide Permit (NWP) #13. This action began on April 23 and was completed on May 4, 1993.

Geotechnical sampling and testing and a stability evaluation were performed to support an alternative assessment for long term stabilization. Based on this work, DOE has determined that the addition to the rock berm height at critical areas to the top of the original bank and added toe protection to the berm will provide long term stabilization of the bank.

The planned Phase II bank stabilization work is also authorized by NWP #13. However, with the additional toe protection, the amount of material per running foot requires DOE to provide "General Notification" to the COE. This "General Notification" requires DOE to notify COE of the intended activity and wait thirty days to allow COE and interested agencies to review the activity. A letter was submitted to the COE for the planned Phase II activities on July 23, 1993.

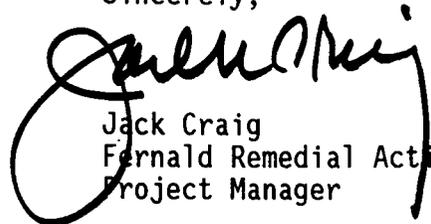
The Phase II construction activities are planned to begin by August 30, 1993. This letter is to notify you of the planned Phase II action. Attached is a description of the activities to be conducted to complete the removal action.

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If you or your staff have any questions, please contact Rod Warner at (513) 648-3156.

Sincerely,



Jack Craig
Fernald Remedial Action
Project Manager

FN:Warner

Attachment: As Stated

cc w/att:

cc w/enc:

K. A. Chaney, EM-424, TREV
D. R. Kozlowski, EM-424 TREV
G. Jablonowski, USEPA-V, AT-18J
J. Kwasniewski, OEPA-Columbus
P. Harris, OEPA-Dayton
M. Proffitt, OEPA-Dayton
T. Schneider, OEPA-Dayton
J. Michaels, PRC
L. August, GeoTrans
F. Bell, ATSDR
K. L. Alkema, FERMCO
P. F. Clay, FERMCO/19
J. B. Williams, FERMCO
AR Coordinator, FERMCO

cc w/o enc:

R. L. Glenn, Parsons
J. W. Thiesing, FERMCO/2

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PLANNED ACTIVITIES

I. NAME: Erosion Control at the Inactive Flyash Pile - Time Critical Removal Action - Phase II.

II. PURPOSE: Complete the slope protection of approximately 220 lineal feet of the Paddy's Run bank adjacent to the Inactive Flyash Pile. This action will provide long term mitigation of the undercutting of the bank and prevent sloughing of the bank into Paddy's Run. The Emergency/ Phase I Removal Action provided interim protection using a rock berm. The Phase II Removal Action will use the interim rock berm and provide additional slope and toe protection.

III. WORK ACTIVITIES:

General Description: At a bend in Paddy's Run tangent to the Inactive Flyash Pile, approximately 220 lineal feet of bank is in need of slope improvement. Slope improvement will stabilize the bank and mitigate break-up and sloughing of the Inactive Flyash Pile.

Phase I, interim slope improvement was performed in April, 1993 with the installation of a weighted berm in the run approximately 7' deep x 10' wide (top) x 220' long.

Phase II consists of the installation of additional Rip Rap Stone at the top at critical areas and toe of the weighted berm installed during Phase I.

IV ASSUMPTIONS:

The construction plan is based on the following assumptions:

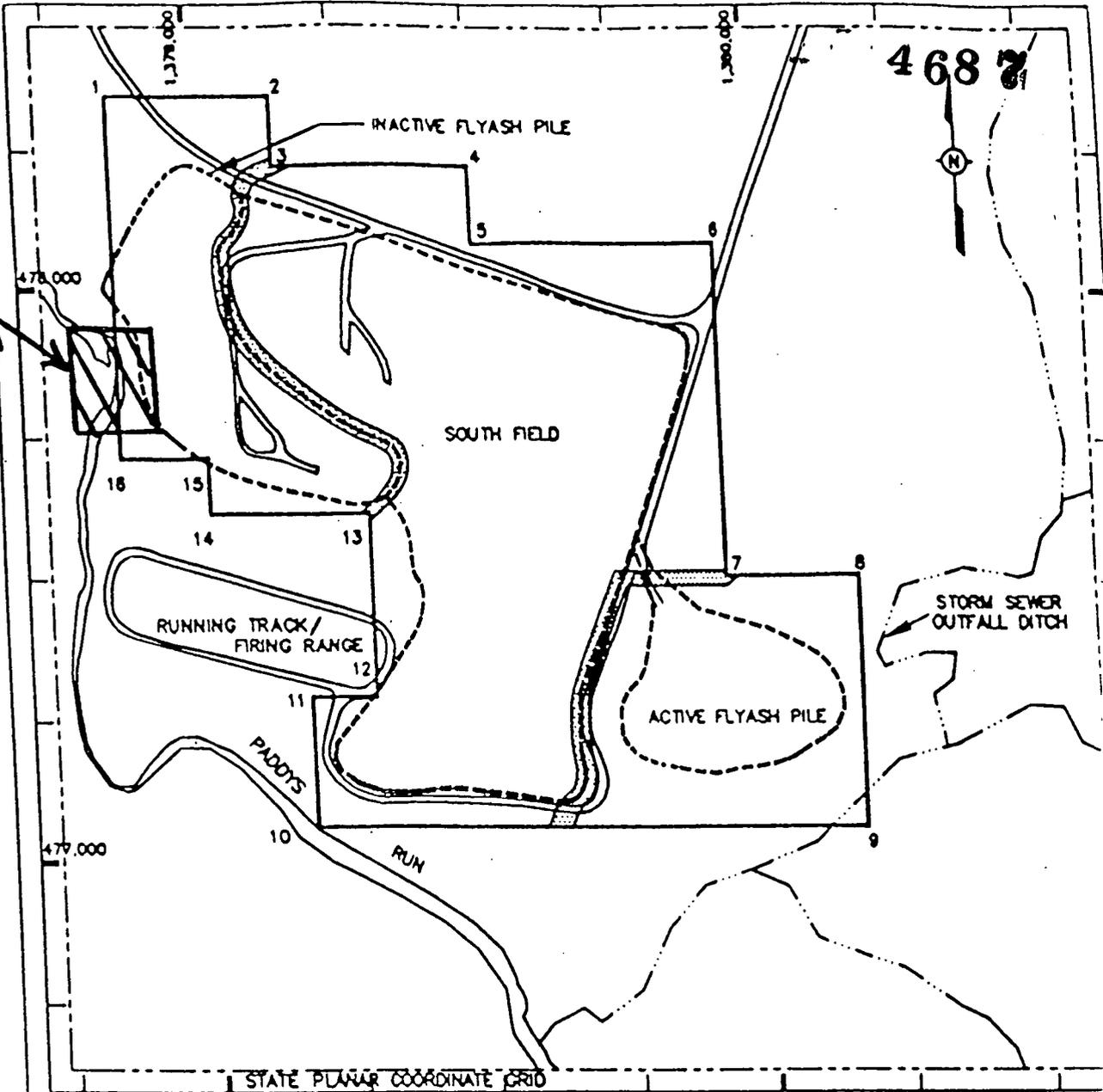
- Access to the site will be from the existing road starting at the waste treatment plant, past the Inactive Flyash pile, to the newly constructed roadway at the Paddy's Run bank.
- Access to the site and the work site itself are outside of any known radiological contamination zones.
- The top soil to be disturbed during culvert construction near the access ramp to the rock berm is not expected to be contaminated.
- The work will be done by the direct hire labor force, using rented equipment (dozer, back-hoe, and end loader) and locally purchased materials.
- Construction support activities include Rad Tech support and

- Construction support activities include Rad Tech support and construction safety support.
- Work will be completed in a four (4) week time frame, weather permitting.

V. CONSTRUCTION PLAN:

1. Layout and set grade stakes for new berm work, and culvert at access ramp.
2. Clear trees and shrubs as required to construct the remaining portion of the berm. Cut trees to stump, cut and pile wood for future removal.
3. Place and back fill a 24" diameter reinforced concrete pipe culvert approximately 30' long in the ditch where it crosses the access roadway near the rock berm.
4. Construct new portion of the rock berm by placing Ohio DOT Type D crushed limestone at the toe and the top of the existing berm. Top off new berm portion with 4" stone and #57 crushed stone to provide smooth finished surface.
5. Maintain all access roads with the dozer during the course of the project.
6. Install chain gate at new berm access ramp.
7. Provide 50 cubic yard stockpile of 12" stone for future maintenance.
8. Cleanup all construction debris and restore site to existing conditions to the greatest extent possible.

REMOVAL ACTION

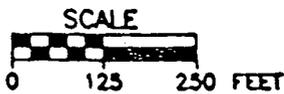


LEGEND:

- FLYASH/SOUTH FIELD BOUNDARY
- ▨ BOUNDARY BETWEEN FLYASH PILES AND SOUTH FIELD
- - - OPERABLE UNIT 2 STUDY AREA
- == ROADWAY
- · - · - DRAINAGEWAY
- · - · - · EXTENT OF FILL

STATE PLANAR COORDINAT

| | | |
|----|---------|---------|
| 1 | N478348 | E137885 |
| 2 | N478348 | E137914 |
| 3 | N478225 | E137914 |
| 4 | N478225 | E137950 |
| 5 | N478091 | E137950 |
| 6 | N478091 | E137993 |
| 7 | N477509 | E137993 |
| 8 | N477509 | E138017 |
| 9 | N477064 | E138017 |
| 10 | N477064 | E137917 |
| 11 | N477295 | E137917 |
| 12 | N477295 | E137921 |
| 13 | N477617 | E137921 |
| 14 | N477617 | E137900 |
| 15 | N477715 | E137900 |
| 16 | N477715 | E137885 |



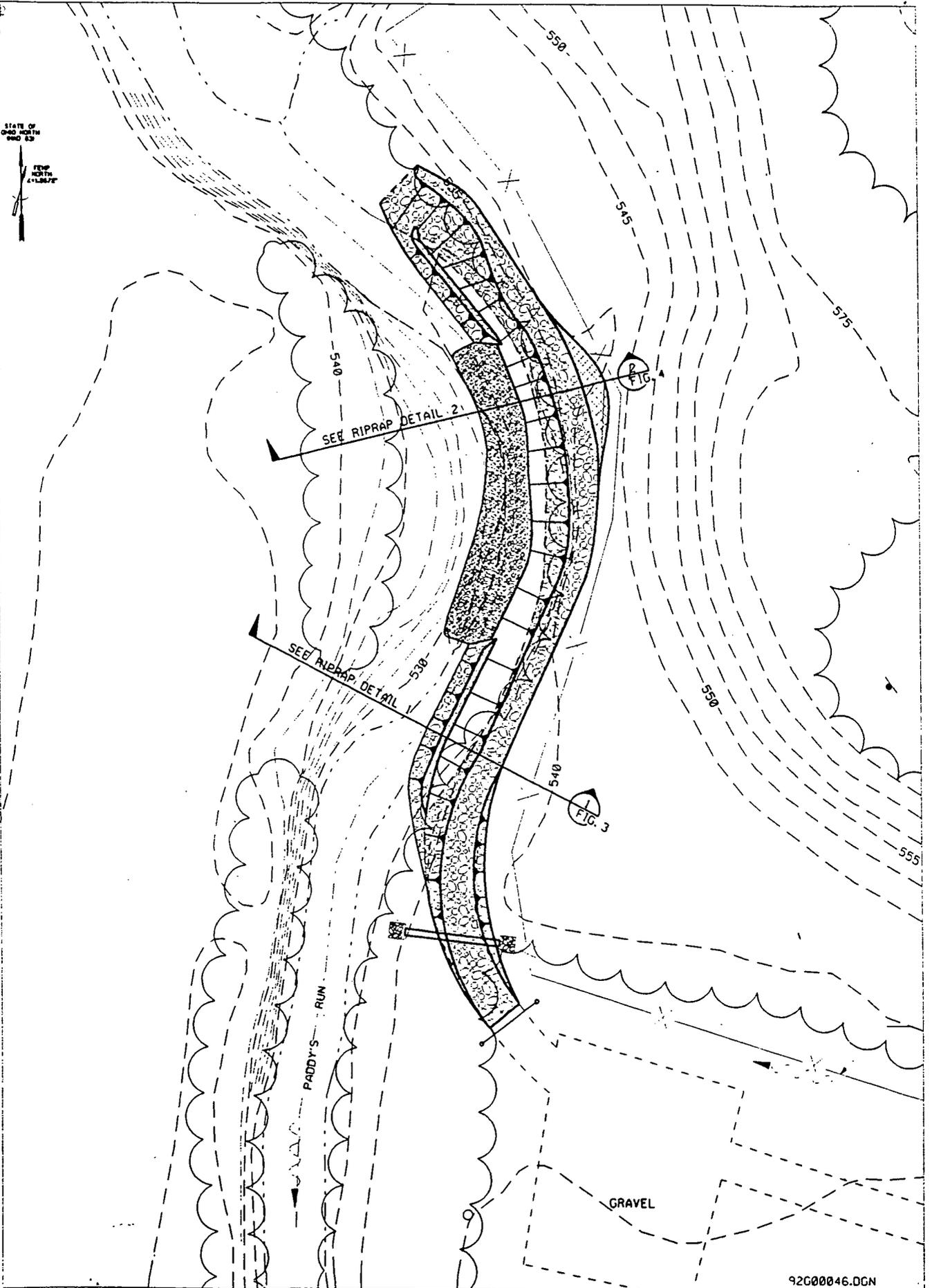
KVP 11/12/82 REV. 2
SAC J. PHILLIPS, D12, DR

FIGURE 1-7. FLYASH/SOUTH FIELD STUDY AREA

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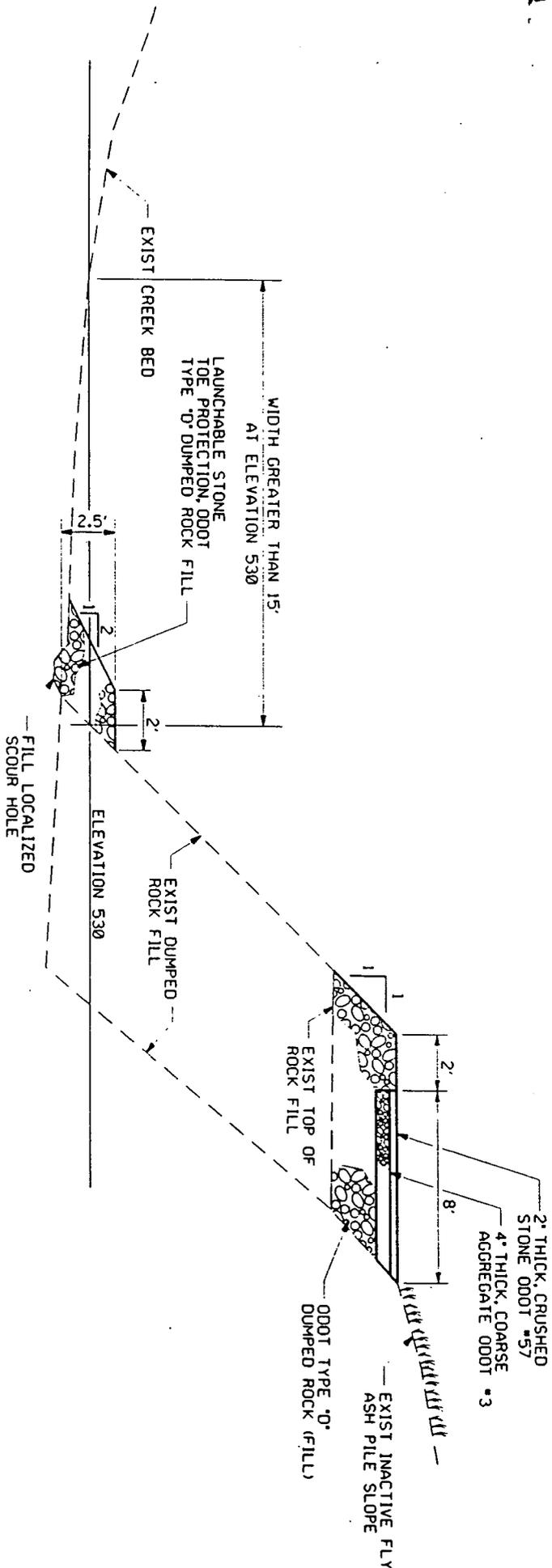
STATE OF
OHIO NORTH
AND EAST



92000046.DGN

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FIGURE NO. 2



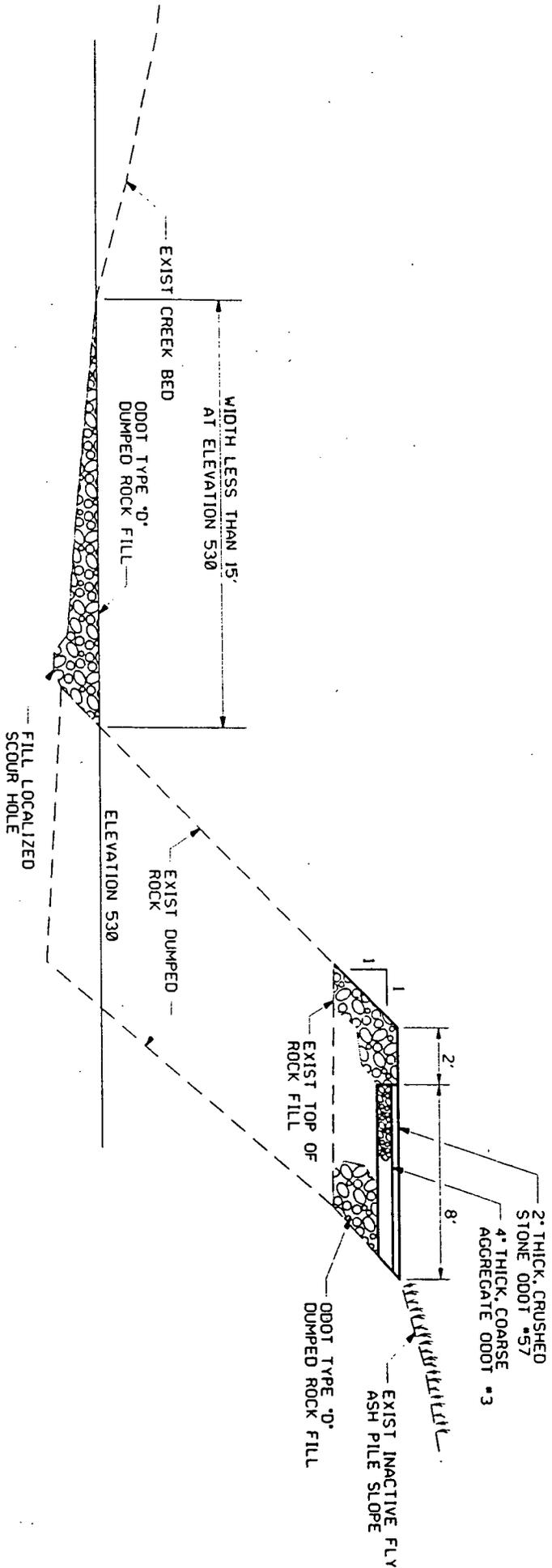
RIPRAP DETAIL

NTS

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FIGURE NO. 3

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RIPRAP DETAIL
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FIGURE NO. 4