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**HANDOUTS FROM PUBLIC WORKSHOP ON INTERMEDIATE DESIGN OF THE
FERNALD ON-SITE DISPOSAL FACILITY, JUNE 4, 1996, THE
PLANTATION**

06/04/96

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HANDOUTS

**PUBLIC WORKSHOP ON
INTERMEDIATE DESIGN OF THE
FERNALD ON-SITE DISPOSAL FACILITY**

June 4, 1996
The Plantation

ON-SITE DISPOSAL FACILITY DESIGN SCHEDULE

Submit Preliminary Design Review Package to EPA
December 22, 1995

Submit Intermediate Design Review Package to EPA
April 12, 1996

Submit Pre-Final Design Review Package to EPA
June 28, 1996

Issue Final Design Review Package to EPA
October 14, 1996

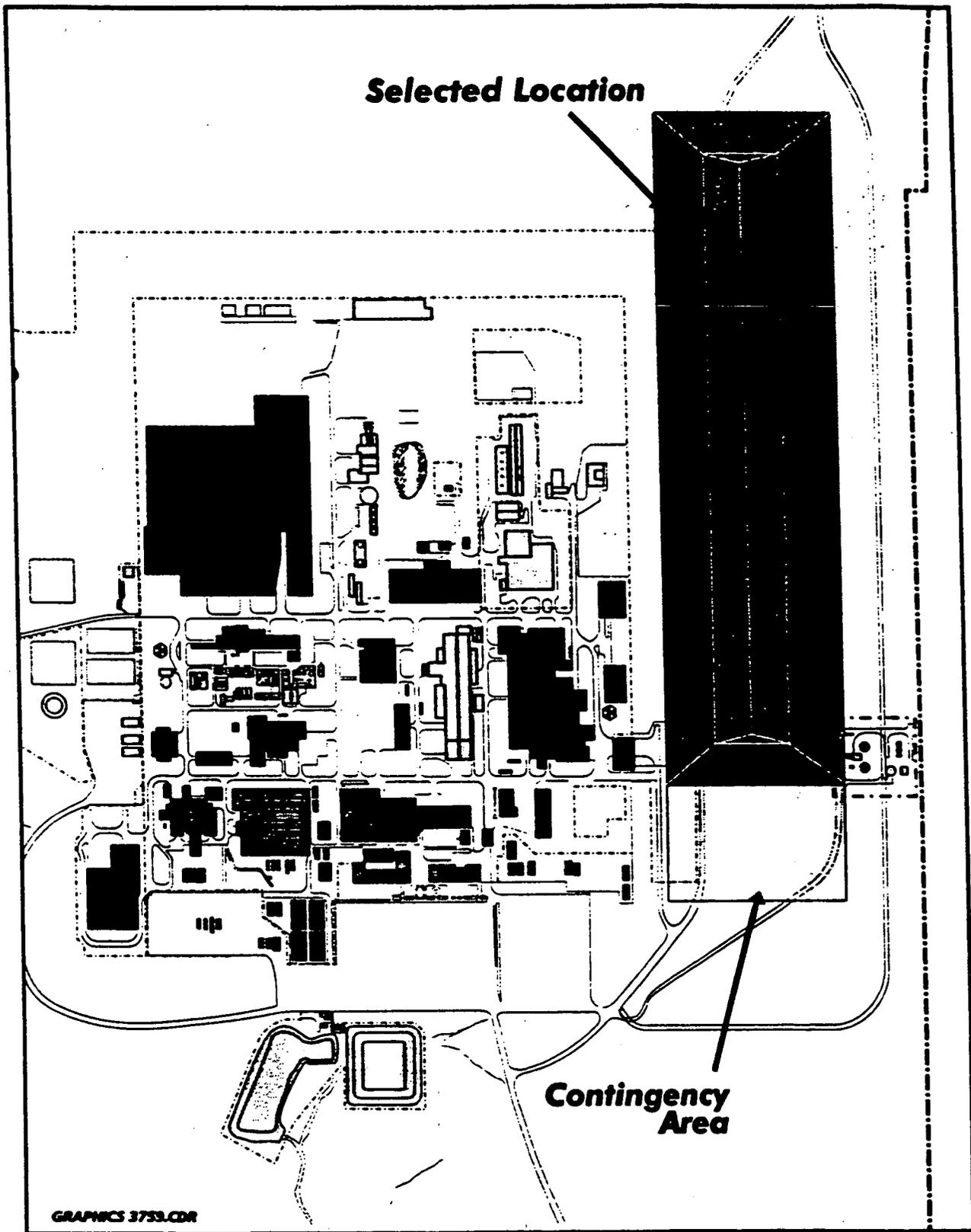


FIGURE 5-4 SELECTED LOCATION FOR THE ON-PROPERTY DISPOSAL FACILITY

SIZE OF THE ON-SITE DISPOSAL FACILITY

Length: 3700 feet

Width: 800 feet

Height: 64 feet maximum

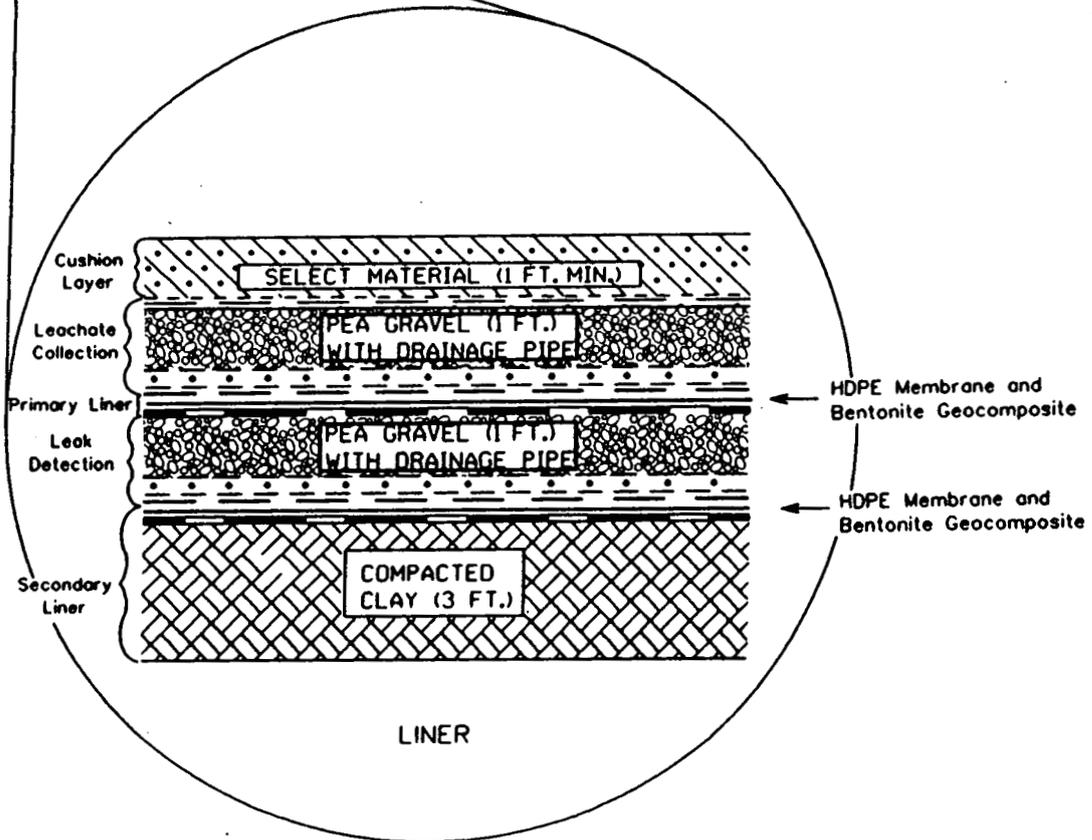
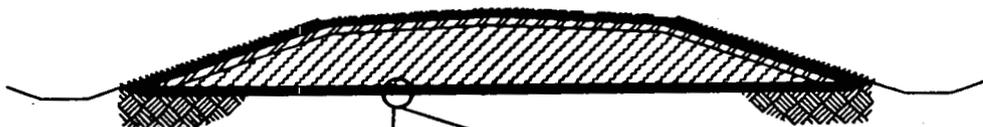
Area: 70 acres without buffer

138 acres with required 300-foot buffer zone

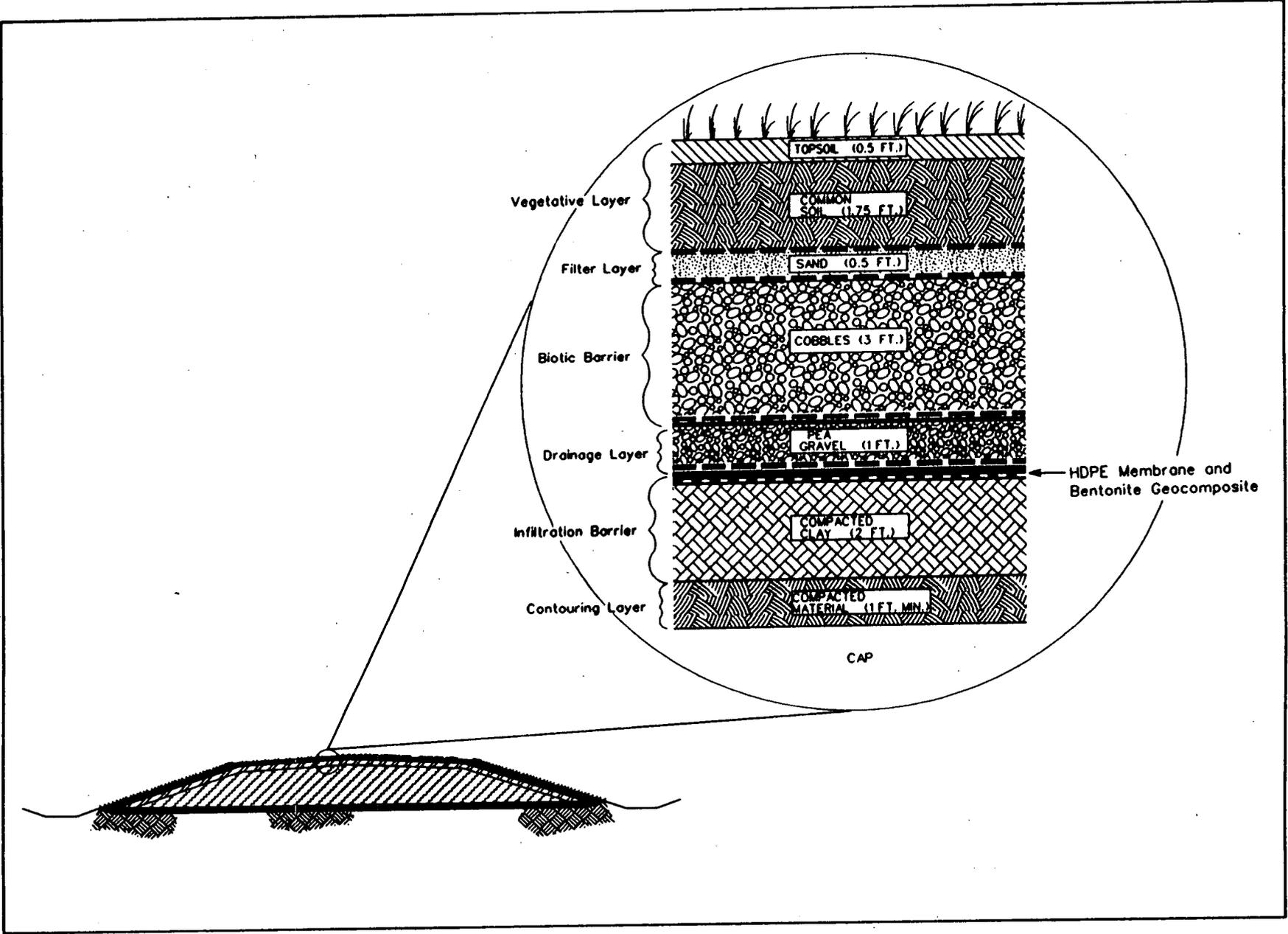
WASTE DISPOSAL

- 2.5 million cubic yards
- Waste from OU2, OU3, and OU5 - mostly soil and debris
- "Balanced approach"
 - low volume, high concentration waste sent off-site
 - large volume, low concentration waste safely disposed on-site

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ON-SITE DISPOSAL FACILITY UPDATE

- Intermediate (60%) Design
- Remedial Action Work Plan (RAWP)
- 10 Support Plans
- Test Pad Work Plan
- Leachate/Liner Compatibility Study Work Plan
- Direct Shear Test Work Plan

MODIFICATIONS TO PRELIMINARY (30%) DESIGN

- Modified North Entrance Road
- Optimized Cap Tie-Ins
- Optimized Protective Layers

REMEDIAL ACTION WORK PLAN

Remedial Action Strategy

- Construction Management
- Procurement Strategy
- Construction Sequence
- Sampling and Analysis Requirements
- Environmental Monitoring
- Health and Safety Requirements
- Community Relations

SUPPORT PLANS

- Permitting Plan
- Air Monitoring Plan
- Borrow Area Management and Restoration Plan
- Surface Water Management and Erosion Control Plan
- Cultural Resource Plan
- Construction Quality Assurance Plan (CQA Plan)
- Systems Plan
- Impacted Material Placement Plan (IMPP)
- Groundwater Monitoring Plan (in outline format)
- Post-Closure Care and Inspection Plan (in outline format)

PERMITTING PLAN

- CERCLA does not require permits for activities that will be conducted entirely on site
- Presents the permitting strategy for the on-site disposal facility (National Pollutant Discharge Elimination System permit)
- Identifies substantive requirements and compliance for permits that would have been necessary without CERCLA (hazardous waste permit, Ohio solid waste permit, etc.)

AIR MONITORING PLAN

- Proposes using existing perimeter system
- First line of monitoring will be the personnel monitors used to protect the on-site workers

BORROW AREA MANAGEMENT AND RESTORATION PLAN

- How borrow material will be removed
- How to manage storm water within the Borrow Area
- How to restore Borrow Area

SURFACE WATER MANAGEMENT AND EROSION CONTROL PLAN

- Presents how storm water will be managed within the limits of the on-site disposal facility

CULTURAL RESOURCE PLAN

- Identifies the procedure to follow in the case of an unexpected cultural resource discovery during remediation

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CONSTRUCTION QUALITY ASSURANCE PLAN

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- Encompasses all clean construction
- Presents key personnel qualifications
- Presents Quality Assurance requirements for
 - Clay liner
 - Geomembrane liner and cover
 - Geosynthetic clay liner and cover
 - Geotextile filter and cushions
 - Other construction materials

SYSTEMS PLAN

- Presents System Requirements
 - Leachate management
 - Final cover
 - Seasonal cover
 - Access roads
 - Record keeping and reporting

WASTE ACCEPTANCE CRITERIA (WAC)

- Chemical/Radiological limits
- Defined in the various Records of Decision
- WAC for Operable Unit 3 is conditional, based on ROD approval by regulatory agencies
- Also covers physical parameters
 - size
 - segregation
- WAC identifies prohibited items
 - acid brick
 - used oils
 - impacted material exceeding WAC

IMPACTED MATERIAL PLACEMENT PLAN

- Presents Waste Acceptance Criteria
- Presents Five Categories of Material
 - Category 1 (soil or soil-like material)
 - Category 2 (enmasse concrete)
 - Category 3 (debris)
 - Category 4 (organic)
 - Category 5 (special handling)
- Required Documentation

WASTE MATERIAL CATEGORIES

CATEGORY 1

- Soil
- Soil-like material without large pieces (max. size 12 inches)

CATEGORY 2

- Concrete
- Concrete/soil mixture

CATEGORY 3

- Debris - transite panels, crushed drums

CATEGORY 4

- Organics - grasses, chipped trees

CATEGORY 5

- Asbestos
- Large pieces of equipment