



April 26, 2001

C0401-10
Environmental Technical Specification 5.4.1.

Docket Nos.: 50-315
50-316

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop O-P1-17
Washington, D.C. 20555-0001

Donald C. Cook Nuclear Plant Units 1 and 2
ANNUAL ENVIRONMENTAL OPERATING REPORT

Enclosed is the Donald C. Cook Nuclear Plant Annual Environmental Operating Report. This report covers the period from January 1, 2000, through December 31, 2000, and it was prepared in accordance with the requirements of Environmental Technical Specification 5.4.1.

Should you have any questions, please contact Mr. Ronald W. Gaston, Manager of Regulatory Affairs at (616) 697-5020.

Sincerely,

Ant A. Thacker

Scot A. Greenlee
Director of Design Engineering and Regulatory Affairs

/dmb

Attachment

c: J. E. Dyer
MDEQ – DW & RPD, w/o attachment
NRC Resident Inspector
R. Whale, w/o attachment

5E25

ATTACHMENT TO C0401-10
ANNUAL ENVIRONMENTAL OPERATING REPORT

Donald C. Cook Nuclear Plant Units 1 & 2

Annual Environmental Operating Report

January 1 through December 31, 2000

Indiana Michigan Power Company
Bridgman, Michigan

Docket Nos. 50-315 & 50-316
License Nos. DPR-58 & DPR-74

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I. INTRODUCTION

Technical Specifications Appendix B, Part 2, Section 5.4.1, requires that an Annual Environmental Operating Report be produced and include summaries and analyses of the results of the environmental protection activities required by Section 4.2 of the Environmental Protection Plan for the report period. The Annual Environmental Operating Report shall include a comparison with preoperational studies, operational controls (as appropriate), previous non-radiological environmental monitoring reports, and an assessment of the observed impacts of the plant operation on the environment.

This report serves to fulfill these requirements and represents the Annual Environmental Operating Report for Units 1 and 2 of the Donald C. Cook Nuclear Plant for the operating period from January 1 through December 31, 2000.

The following table summarizes the pertinent data concerning the Plant's operation during the period from January 1 to December 31, 2000.

<u>Parameter</u>	<u>Unit 1</u>	<u>Unit 2</u>
Gross Electrical Generation (MWH)	457,392	4,950,860
Unit Service Factor (%)	2.8	51.9
Unit Capacity Factor--MDC* Net (%)	1.5	51.4

II. CHANGES TO THE ENVIRONMENTAL TECHNICAL SPECIFICATIONS

There were no changes to Environmental Technical Specifications in 2000.

III. NON-RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

A. Non-Routine Reports

A summary of the 2000 non-routine events is located in Appendix I of this Report. No long-term, adverse environmental effects were noted.

B. Environmental Protection Plan

There were no instances of Environmental Protection Plan noncompliance in 2000.

C. Plant Design and Operation

During 2000, there were no changes in station design, operations, tests, or experiments which involved a potentially significant unreviewed environmental issue. There were no environmental evaluations performed during the reporting period. Additional project environmental reviews performed in 2000 that were associated with the environmental evaluation for the Unit 1 Steam Generator Replacement Project reported in the 1999 Annual Environmental Operating Report are included in Appendix II of this report.

D. Environmental Monitoring – Herbicide Application

Herbicide applications are the activities monitored in accordance with Technical Specification Appendix B Section 4.2. There were no pre-operational herbicide studies to which comparisons could be made. Herbicide applications are managed by plant procedure PMP 2160 HER.001.

A summary of the 2000 herbicide applications is contained in Appendix III of this report. Based on observations, there were no negative impacts or evidence of trends toward irreversible change to the environment as a result of the herbicide applications. Based on our review of application records and field observations, the applications conformed to EPA and State requirements for the approved use of herbicide.

APPENDIX I
NON-ROUTINE REPORTS
2000

2000 Non-Routine Events

January 18, 2000 - At 0030 hours, a hydraulic line failed on one of the plant's cranes. The cracked line leaked approximately 5-20 gallons of hydraulic oil to the ground.

February 14, 2000 - At 1130 hours, the main sanitary wastewater line to the plant's sewage plant became blocked. The blocked line caused the sanitary wastewater to back up, spilling approximately 10 gallons of sanitary wastewater to the ground via two clean-out access pipes.

March 24, 2000 - During a routine inspection of the stormwater system, an illicit connection to the plant's North Stormwater Outfall (#001S) was discovered. During a renovation at the plant's office complex, a coffee station and sink were installed. The drain from the sink was routed to a floor drain that drained directly to the storm drain system.

March 26, 2000 - At 1600 hours, a hydraulic line failed on the plant's 55-ton mobile crane. The cracked line leaked approximately 5-20 gallons of hydraulic oil to the ground.

April 19, 2000 - At 1515 hours, the discharge from the North Storm Water Outfall (001S) was noted to be cloudy, turbid, and contained a small amount of foam. No oily sheen was noted. This condition we believe, was caused by a "first flush" of the storm system during this rain event.

June 17, 2000 - At 1336 hours, the Alternate Plant Heating Boiler blowdown line leaked approximately 15 gallons of condensate to a catch basin. The condensate contained up to 3.1 ppb hydrazine and <0.3 ppm ethanolamine based on samples taken on June 16, 2000 from the boiler.

September 29 through October 4, 2000 - A visual observation for oil sheen at the absorption pond was not performed as required. The plant's new groundwater permit M00988 was issued on September 29, 2000 and became effective on this date. The new permit included a provision for a daily visual observation of the plant's absorption pond for presence of an oil sheen. Plant personnel became aware of this daily visual observation requirement upon receipt of the new permit on October 5, 2000. Plant personnel commenced the required daily inspections along with the other requirements of the permit on the date of receipt. A letter of response dated November 14, 2000 from the Michigan Department of Environmental Quality determined that the reasons for the lack of monitoring were reasonable and no further action would be taken on this issue.

December 4, 2000 - At 1324 hours, approximately 1500 gallons of water was discharged to Outfall 00D with a pH value of 2.4. The discharge was necessary to prevent flooding of equipment and also avoid discharging to Lake Michigan.

December 18, 2000 - At 1400 hours, a hydraulic line failed on a contractor's excavator. The cracked line leaked approximately 20 gallons of hydraulic oil to the ground.

December 22, 2000 - At 2121 hours, approximately 1500 gallons of water was discharged to Outfall 00D with a pH value of 2.4. The discharge was necessary to prevent flooding of equipment and also avoid discharging to Lake Michigan.

APPENDIX II
ENVIRONMENTAL SCREENING REPORTS
2000

ATTACHMENT A
SGRP ENVIRONMENTAL REVIEWS

2000 Annual Environmental Operating Report	99-041	Repair road north of the 345 kV Switch yard.	11/1/99
	99-042	Construct swale to convey runoff from new intersection at Red Arrow Highway.	12/15/99
	99-043	Park SGRP RP Consumables Trailer 45' overland enclosed located near the sewage plant.	10/13/00
	99-044	Dig trenches between SGRP Building and north and south trailers.	3/29/00
	99-047	Increase road width north of 345 kV yard and slope bank on a 2/1 slope.	12/7/99
	99-049	Excavate trench to install permanent electrical feed to the steam generator mausoleum. Trench to be backfilled using spoils material.	3/29/00
	99-051	Install parking lot signs at the SGRP Office.	1/7/00
	99-053	Secure leveling plate around catch basin north of the RPAC.	2/16/00
	00-02	Convert storage building into SGRP Decon Facility.	10/17/00
	00-03	Repair existing H ₂ O valve box and roadway.	7/17/00
	00-04	Provide temporary test area, pumper area, chute, washout area and spoil concrete area to support restoration of Unit 1 concrete S/G enclosures.	8/9/00
	00-08	Use area adjacent to Environmental Spoils Yard to store Unit 1 SGRP Seavans.	1/2/01
	00-29	Remove temporary power feed from junction panel to temporary Change and Purchasing trailers. Also, install soil erosion material as required.	9/20/00

A/R # _____
J.O. # _____
J.O.A.# _____

(Assigned by Environmental Affairs)
Review # 99-041
Revision # 0 as of 8/25/99
Expiration Date 3-25-99 00

PMP 6090 ADM.001
Attachment 2

Closed 11/1/99
COU

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

SEE ATTACHED DRAWING (BECHTEL) 23733-C-002 SH1 REV. D
MAKE REPAIRS TO THE ROAD AS REQUIRED. INTERSECTION OF ROAD,
NORTH OF THE 345 KV SWITCHGEAR YARD.

Department: SGRP Contact: JIMMY PUTNAM Ext. 3554

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

No vegetation removal.
Direct spoil to hillside for large quantities

3. Potential permit or plan requirements/changes

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Critical Dune/High Risk Erosion | <input checked="" type="checkbox"/> Asbestos | <input checked="" type="checkbox"/> Ground water |
| <input type="checkbox"/> Michigan Storm Water Construction Permit | <input type="checkbox"/> PIP Plan | <input type="checkbox"/> Storm water |
| <input type="checkbox"/> Erosion (Berrien Co. Drain Comm) | <input type="checkbox"/> SPCC Plan | <input type="checkbox"/> Chemical Storage Perm |
| <input type="checkbox"/> Waste Storage Permit | <input type="checkbox"/> Hazwoper | <input checked="" type="checkbox"/> NPDES |
| <input type="checkbox"/> Air | <input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit fo | |
| | Wetlands and Waterways | |

4. Additional comments:

No Permits work is Roadway only

Reviewer/Evaluator [Signature] Date 8-25-99
General Supervisor - [Signature] Date 8-25-99
Environmental Review

PART OF DWG
23733-C-0025 HT 1

E 1,395,500

N 182,500

PARKING

E 1,396,000

EXISTING RAIL

EXISTING ROAD

OFF-LOAD
SEE DWG

OSGLA/RSGLA
HAUL ROUTE

TREE LINE

AREA OF
EXPANSION

RSGLA HAUL
ROUTE

REPLACEMENT STEAM
GENERATOR LOWER
ASSEMBLY STORAGE
FACILITY, FABSHOP &
WAREHOUSE AREA

N 182,000

345 KV SWITCHGEAR YARD

18

A/R # A0172343
J.O. # C49096
J.O.A. # _____

(Assigned by Environmental Affairs)
Review # 99-042
Revision # 0
Expiration Date 12/31/99

PMP 6090 ADM.001
Attachment 2
Closed 12/15/99

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

CONSTRUCT A SWALE TO CONVEY RUNOFF FROM NEW INTERSECTION AT RED ARROW HIGHWAY. WORK WILL INCLUDE CLEARING A PORTION OF THE EXISTING SWALE THAT WILL RECEIVE RUNOFF FROM NEW SWALE. SEE ATTACHED DRAWING, C49096-RS807.

Department: SGRP Contact: RAY BROWN Ext. 3565

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)
2. Work requirements and restrictions

Ensure stumps + mulching are done promptly to avoid erosion of the swale.

3. Potential permit or plan requirements/changes

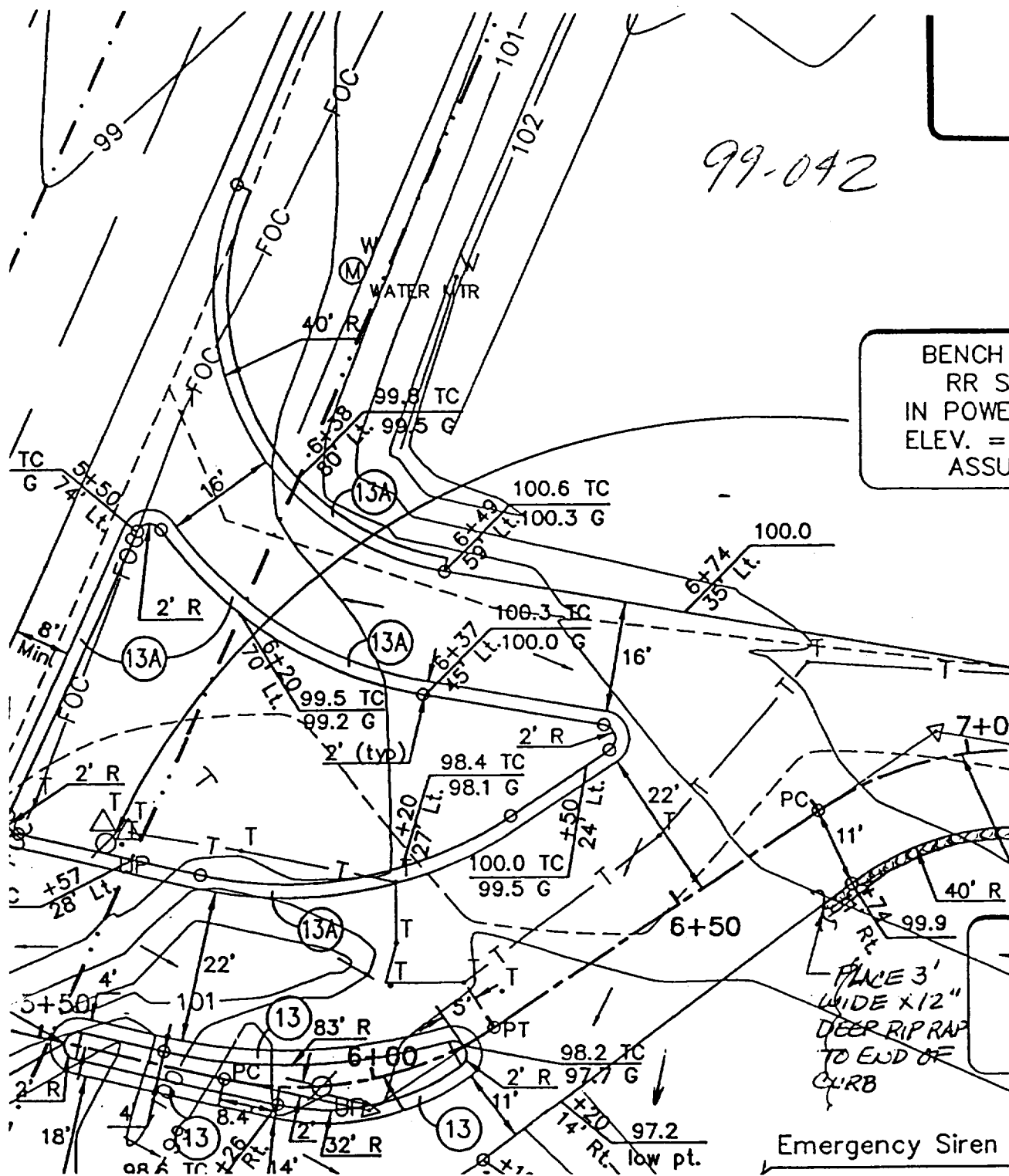
- | | | |
|---|--|--|
| <input type="checkbox"/> <u>LA</u> Critical Dune/High Risk Erosion | <input type="checkbox"/> <u>LA</u> Asbestos | <input type="checkbox"/> <u>LA</u> Ground water |
| <input type="checkbox"/> <u>LA</u> Michigan Storm Water Construction Permit | <input type="checkbox"/> PIP Plan | <input type="checkbox"/> Storm water |
| <input type="checkbox"/> Erosion (Berrien Co. Drain Comm) | <input type="checkbox"/> SPCC Plan | <input type="checkbox"/> Chemical Storage Permit |
| <input type="checkbox"/> Waste Storage Permit | <input type="checkbox"/> Hazwoper | <input type="checkbox"/> NPDES |
| <input type="checkbox"/> Air | <input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways | |

4. Additional comments:

Senay Melby agrees with the attached plans - (MDEQ storm water).
Include the changes in the SUP3 Annual review.
The area will also need to be inspected semi-annually.

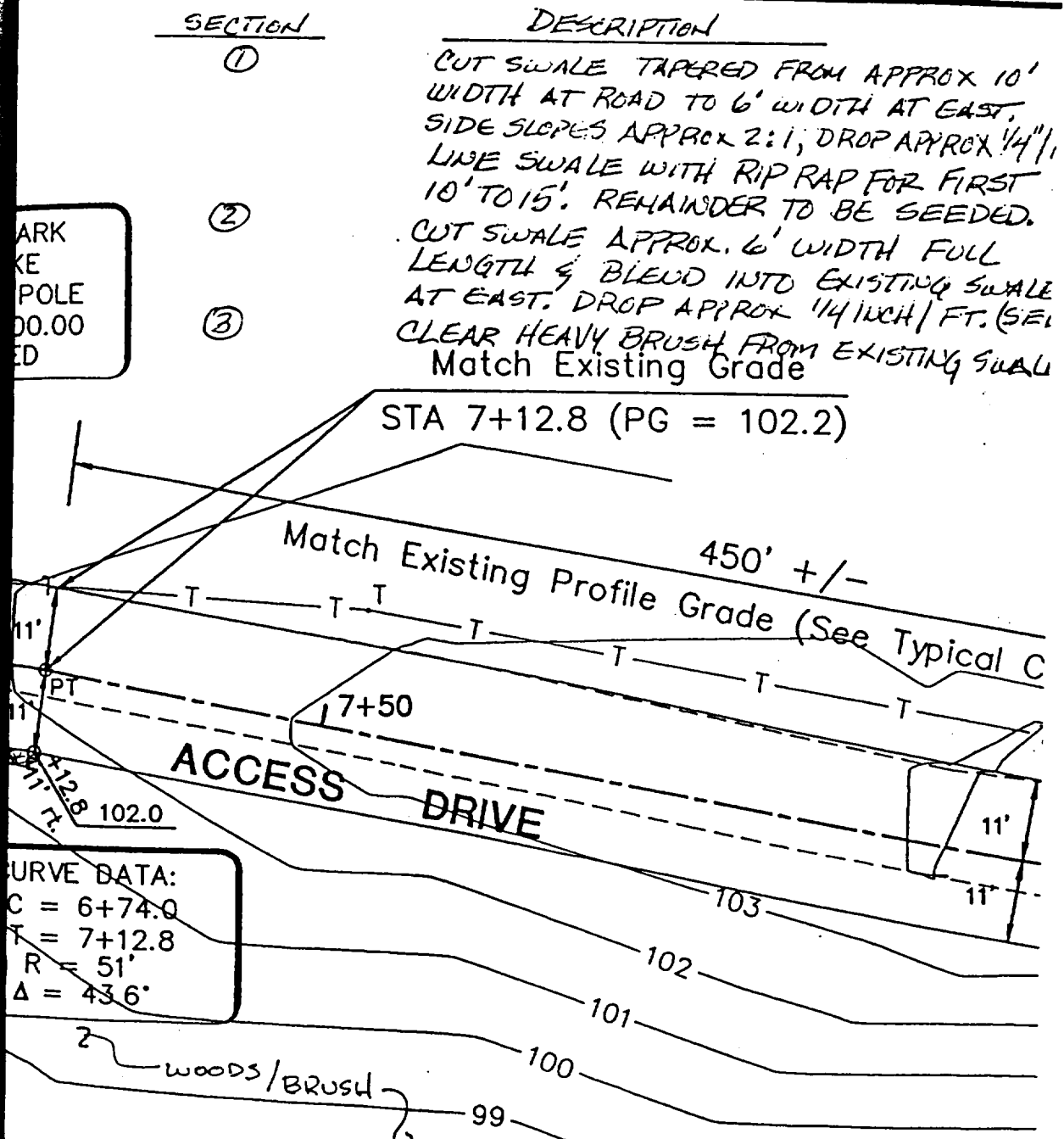
Reviewer/Evaluator [Signature] Date 9-13-99
General Supervisor - [Signature]
Environmental Review [Signature] Date 9/17/99

BENCH
RR S
IN POWE
ELEV. =
ASSU



- (A) 1.5" Bituminous Surface
(B) 2.5" Bituminous Base

- (C) 8" Aggregate Base
(D) Aggregate Shoulder



DUPLICATE - USE AS ORIGINAL

A/R # 1NA
J.O. # _____
J.O.A.# _____

(Assigned by Environmental Affairs)
Review # 77-043
Revision # 0-04.1
Expiration Date 9/30/00

PMP 6090 ADM.001
Attachment 2

Closed and
sent to NDM
10/13/00

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

Park SGRP RP Consumer Trailer 45' overland enclosed
@ S.E. location by sewage plant & 4914 yard. Trailer will contain
supplies for use in all SGRP by RP. see attached list.

Department: SGRP RP Contact: TOM HARRIS Ext. 3514

B. ENVIRONMENTAL REVIEW/EVALUATION (Sporty)

(Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

Chemical storage permit per PMI-2160 is required
if chemicals will be stored in the trailer. B. Harrington 9-28-99

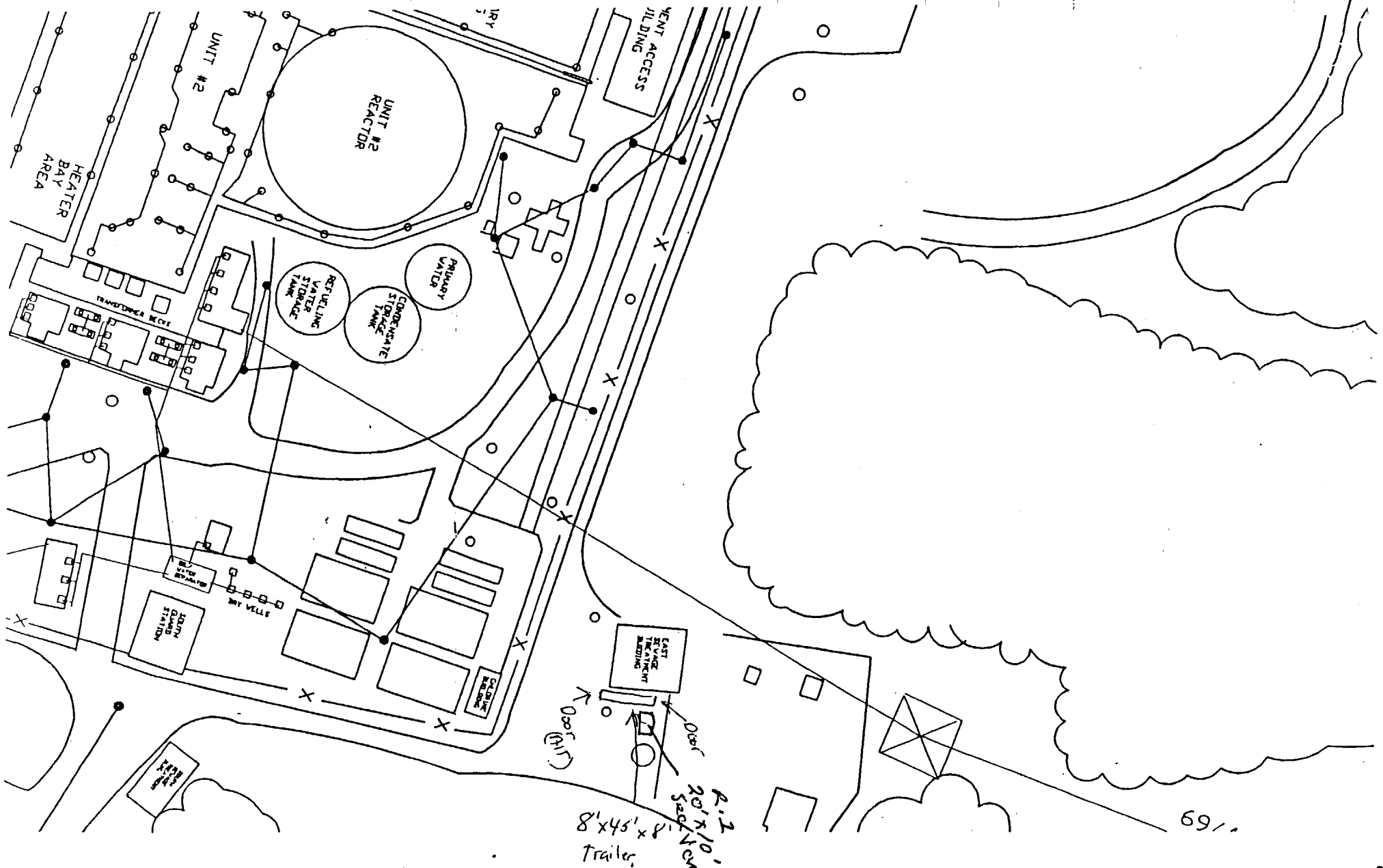
3. Potential permit or plan requirements/changes

<input checked="" type="checkbox"/> <u>NA</u> Critical Dune/High Risk Erosion	<input checked="" type="checkbox"/> <u>NA</u> Asbestos	<input checked="" type="checkbox"/> <u>NA</u> Ground water
<input type="checkbox"/> Michigan Storm Water Construction Permit	<input type="checkbox"/> PIP Plan	<input type="checkbox"/> Storm water
<input type="checkbox"/> Erosion (Berrien Co. Drain Comm)	<input type="checkbox"/> SPCC Plan	<input type="checkbox"/> Chemical Storage Permit
<input type="checkbox"/> Waste Storage Permit	<input type="checkbox"/> Hazwoper	<input checked="" type="checkbox"/> NPDES
<input type="checkbox"/> Air	<input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways	

4. Additional comments:

No Digging - No Bulk Liquids therefore No Dunes Permit or B.C. erosion
required. Enclose trailer - No Stormwater concerns.
Add a 20' x 10' Sea Van ga 11-10-99

Reviewer/Evaluator DeJong Date 9-28-99
General Supervisor - [Signature]
Environmental Review [Signature] Date 10-1-99



02 PLANT (W/001S & 002S)

99-043

A/R # A 190651
J.O. # C 52262
J.O.A.# 03

(Assigned by Environmental Affairs)
Review # 99-044
Revision # 0
Expiration Date 12/31/99

PMP 6090 ADM.001

Closed Attachment 2
3/29/00
Edu.

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

DIG ONE TRENCH FROM PANEL MDP-2 ON SGRS BLANG TO SOUTH TRAILER AND
DIG ONE TRENCH FROM PANEL MDP-3 TO NORTH TRAILER. BOTH TRENCHES
APPROXIMATELY 1' WIDE BY 18" DEEP.

Department: SGRP Contact: PETE STATHAKIS Ext. 3456

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

Prevent soil contamination of any stormdrains in
Plant access Road. Re Use Soil as Fill when
Trench work is complete

3. Potential permit or plan requirements/changes

- | | | |
|---|--|--|
| <input type="checkbox"/> <u>1</u> Critical Dune/High Risk Erosion | <input type="checkbox"/> <u>1</u> Asbestos | <input type="checkbox"/> <u>1</u> Ground water |
| <input type="checkbox"/> Michigan Storm Water Construction Permit | <input type="checkbox"/> PIP Plan | <input type="checkbox"/> Storm water |
| <input type="checkbox"/> Erosion (Berrien Co. Drain Comm) | <input type="checkbox"/> SPCC Plan | <input type="checkbox"/> Chemical Storage Permit |
| <input type="checkbox"/> Waste Storage Permit | <input type="checkbox"/> Hazwoper | <input type="checkbox"/> NPDES |
| <input type="checkbox"/> Air | <input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways | |

4. Additional comments:

>500 feet from lake Crit Dunes: Exempted in
Previous Permit for the area since it is
no where near Dunes

Reviewer/Evaluator
General Supervisor -
Environmental Review

[Signature]
[Signature]

Date 9/10-599
Date 10-6-99

VISITOR ENTRANCE R

250 W. HPS

50 W. HPS

250 W

10

SPACE

SPH205T

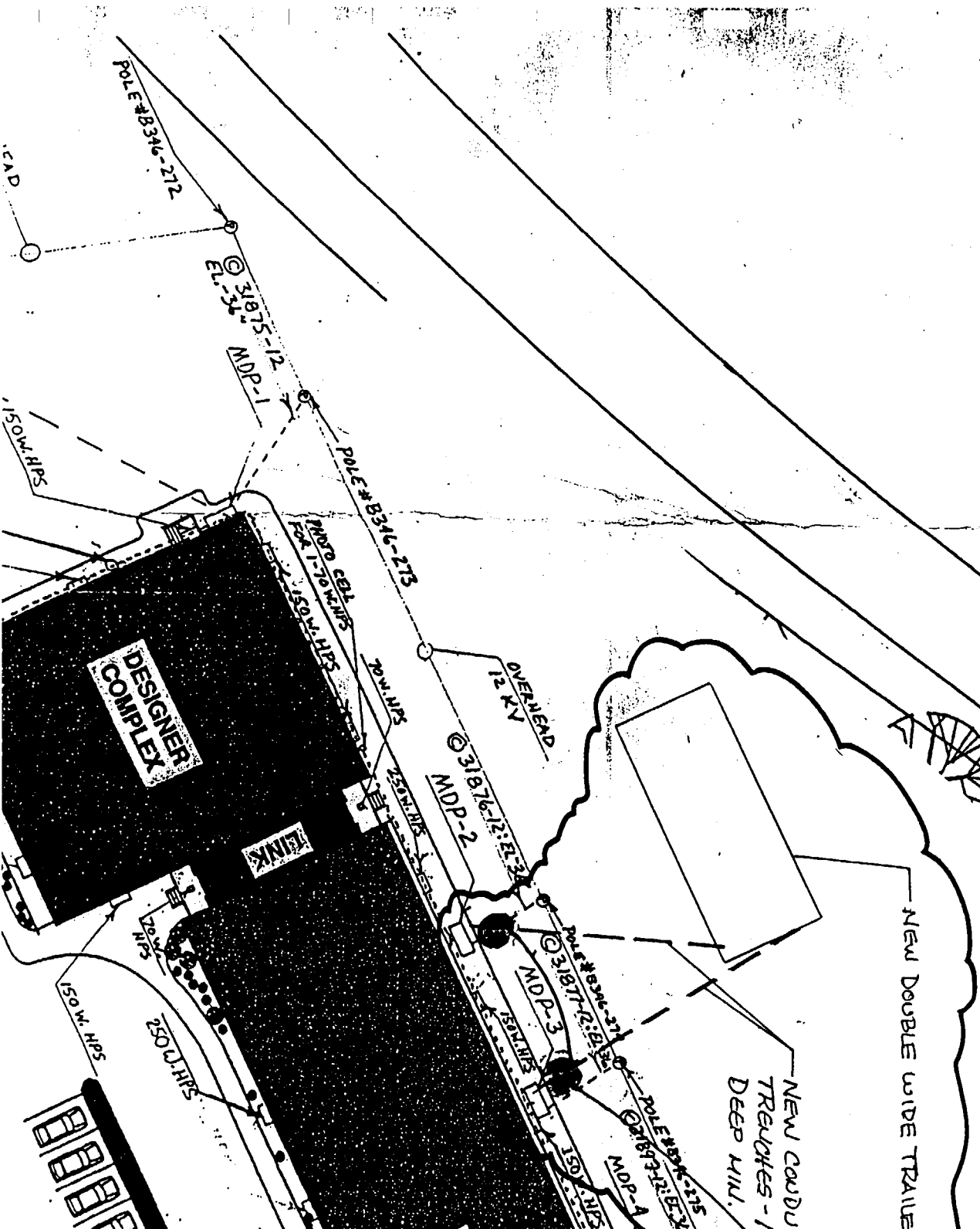
5th

ROAD

COPIED FROM GE CAPITAL
DRAWING 5-1

ATTACHMENT TO DIG PERMIT
No. 1059
REV 0 ~~RBB~~ 9/28/99

Notified Authority
in hand
to
Cable connections
to
Use As-built
Expert Scan
by
10/1/99



A/R # A0169472

J.O. # C0052424

J.O.A. # C0052424-01

02
CA. 10/21/99

(Assigned by Environmental Affairs)

Review # 99-047

Revision # 0

Expiration Date 3/1/06

PMP 6090 ADM.001

Attachment 2

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

INCREASE ROAD WIDTH NORTH OF 345 KV YARD
AND SLOPE BANK BACK ON A 3/1 SLOPE.
- SEE ATTACHED HAND SKETCH -

Department: SGRP Contact: DEWAYNE J. HUNTER Ext. 3581

B. ENVIRONMENTAL REVIEW/EVALUATION

(Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

Perform work as described in attached drawing

3. Potential permit or plan requirements/changes

<input type="checkbox"/> Critical Dune/High Risk Erosion	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Ground water
<input type="checkbox"/> Michigan Storm Water Construction Permit	<input type="checkbox"/> PIP Plan	<input type="checkbox"/> Storm water
<input type="checkbox"/> Erosion (Berrien Co. Drain Comm.)	<input type="checkbox"/> SPCC Plan	<input type="checkbox"/> Chemical Storage Permit
<input type="checkbox"/> Waste Storage Permit	<input type="checkbox"/> Hazwoper	<input type="checkbox"/> NPDES
<input type="checkbox"/> Air	<input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways	

4. Additional comments:

No additional permits required

Reviewer/Evaluator

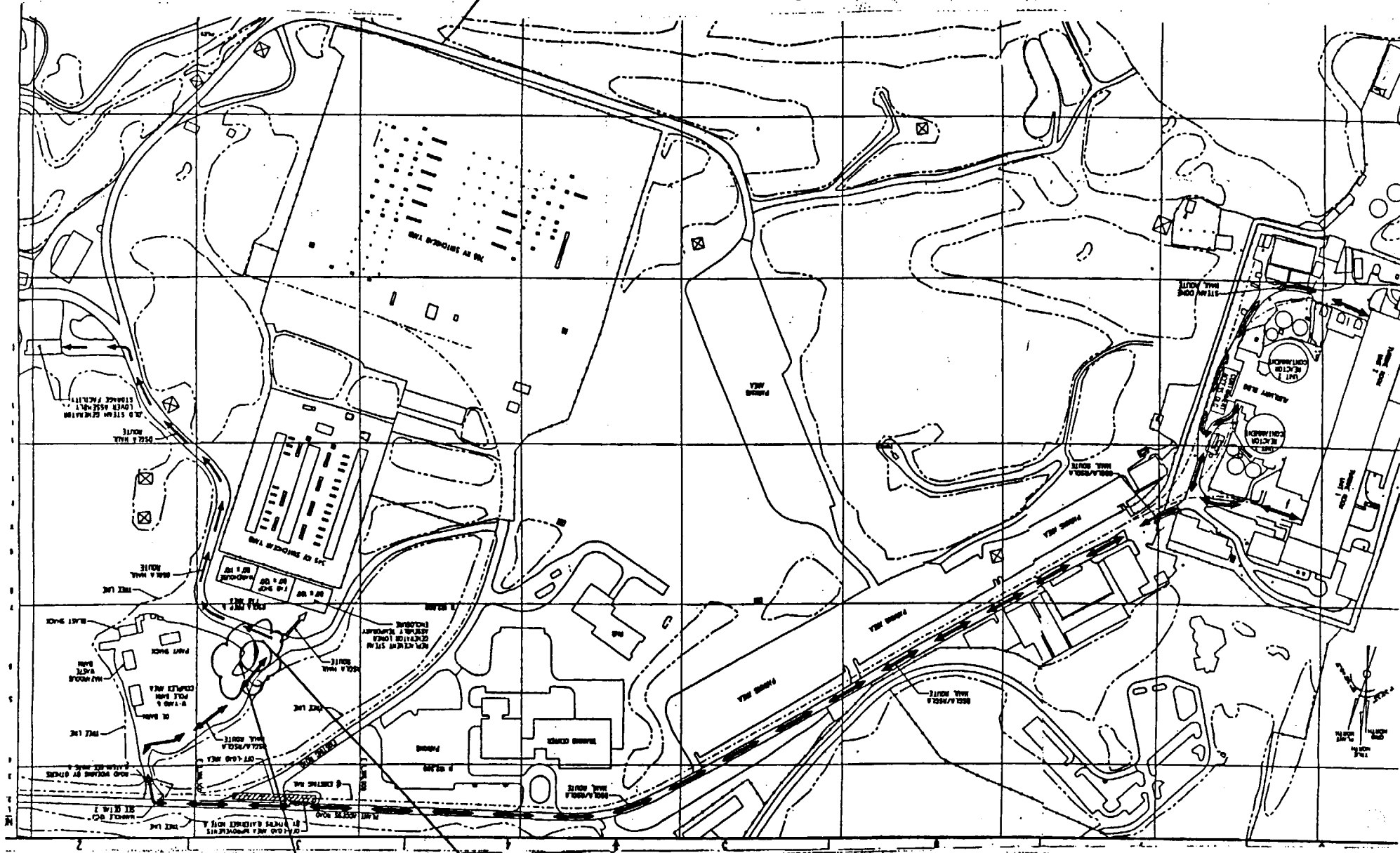
General Supervisor -

Environmental Review

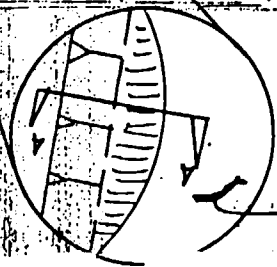
Date 10/19/99

Date 1-21/99

Haul Route Modification

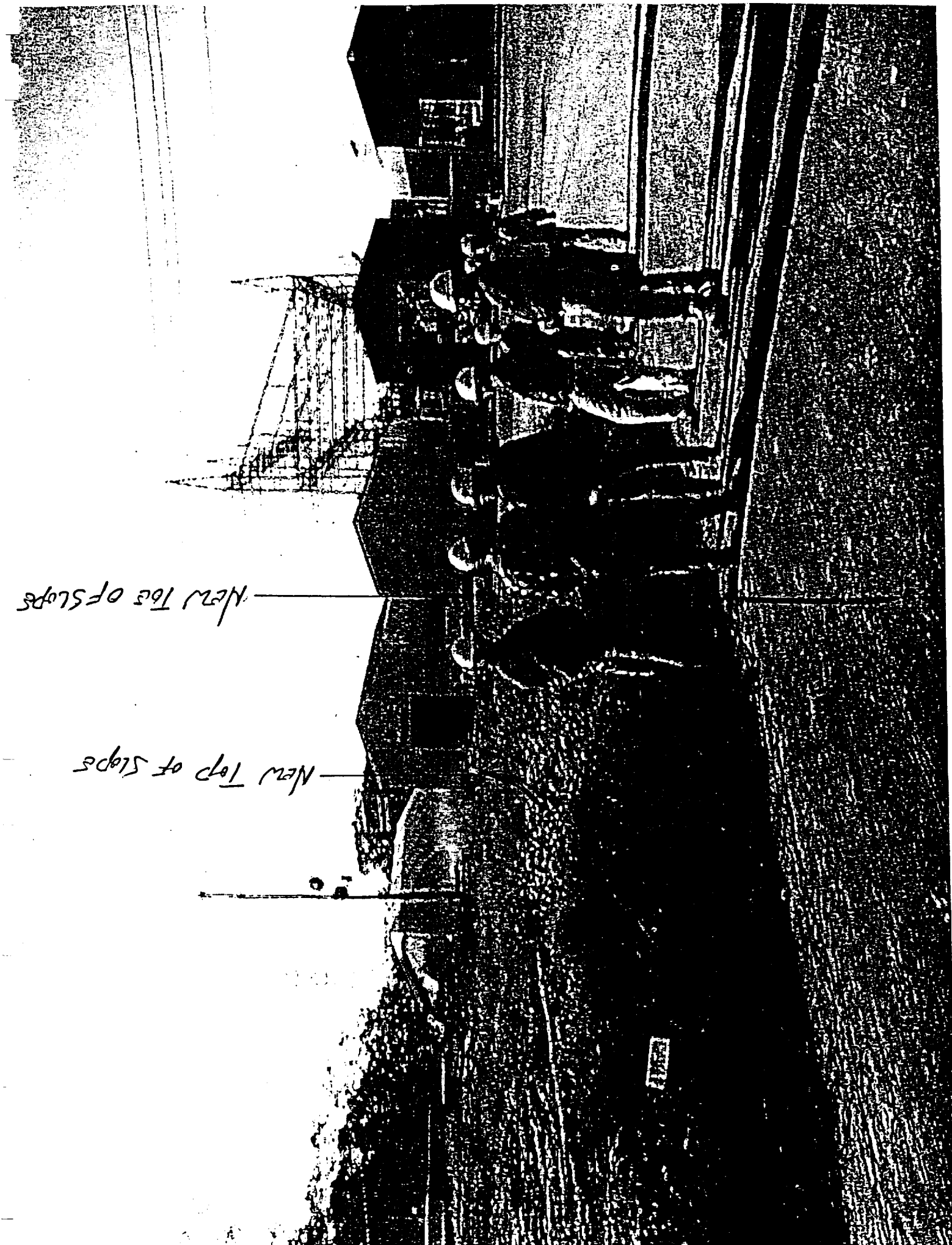


• EAST APPROX 12°
• PLACE EROSION
• FABRIC ON NEAR
2/1 SLOPE.



New Top of Slope

New Top of Slope



A/R # A0189489
J.O. # 052148
J.O.A.# 02

(Assigned by Environmental Affairs)
Review # 99-049
Revision # 0
Expiration Date 2/1/00

PMP 6090 ADM.001
Attachment 2

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

EXCAVATE TRENCH TO INSTALL PERMANENT ELECTRICAL FEED
TO THE STEAM GENERATOR MAUSOLEUM. SEE ATTACHED
SKETCH. TRENCH TO BE BACKFILLED USING SPOIL MATERIAL.

Department: SGRP Contact: RAY BROWN Ext. 3565

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

prevent soil erosion during trenching. Protect nearby Creek
from silting - should be prevented by vegetation established
down bank from the site and the creek.

3. Potential permit or plan requirements/changes

☒ NA Critical Dune/High Risk Erosion
☐ Michigan Storm Water Construction Permit
☐ Erosion (Berrien Co. Drain Comm)
☐ Waste Storage Permit
☒ Air

☒ Asbestos
☒ PIP Plan
☒ SPCC Plan
☒ Hazwoper
☐ Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways

☒ Ground water
☒ Storm water
☒ Chemical Storage Permit
☒ NPDES

4. Additional comments:

None

Reviewer/Evaluator

General Supervisor -

Environmental Review

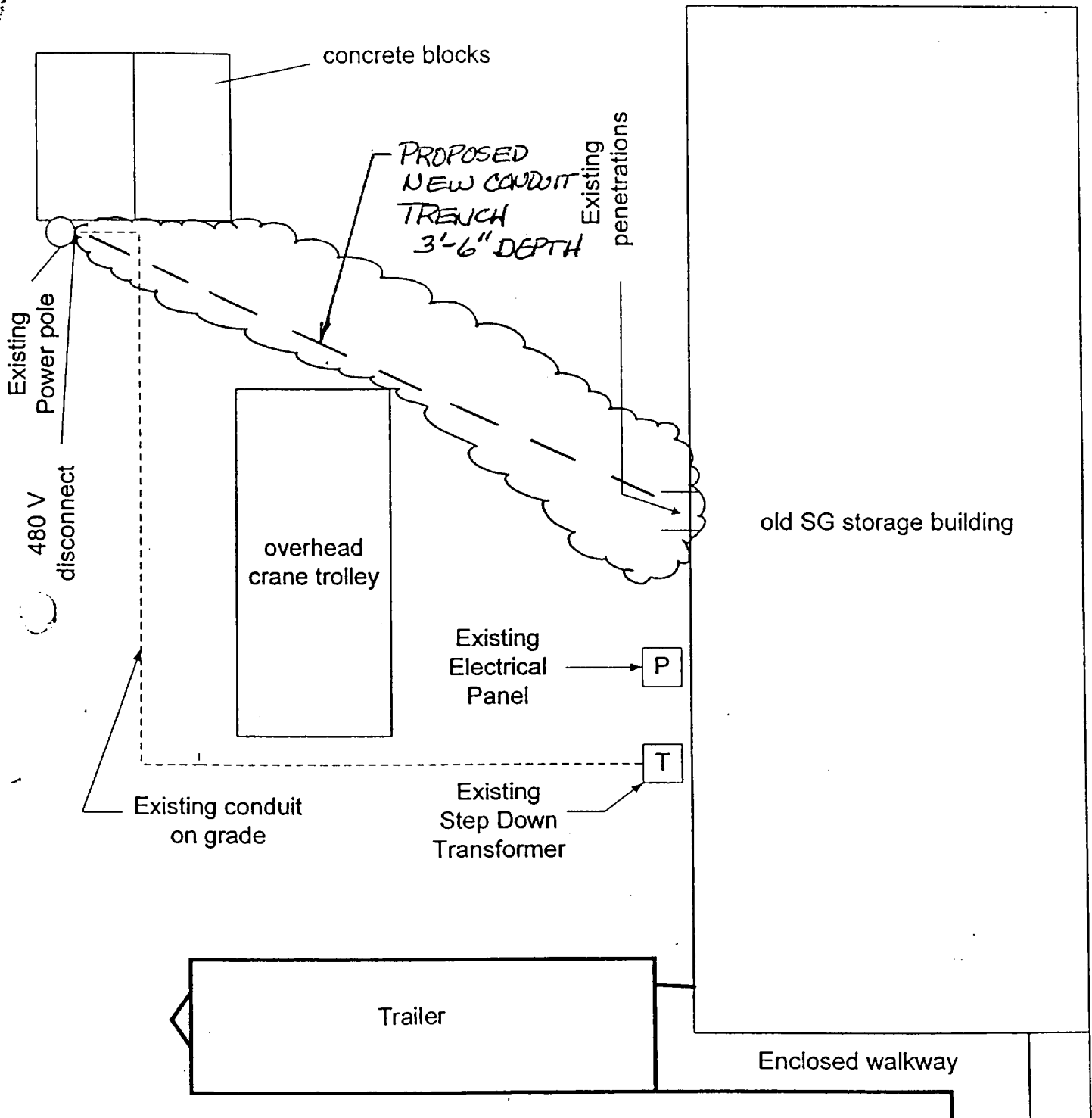
Date

Date

ATTACHMENT TO ENV. PERMIT
FOR LDGP 310

scale 1" = 15'

N



WOODS

A/R # NA
J.O. # _____
J.O.A.# _____

(Assigned by Environmental Affairs)
Review # 99-051
Revision # 0
Expiration Date 12/31/99

PMP 6090 ADM.001
Attachment 2

Closed and
sent to NRIM
E. 1/17/00

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

INSTALL PARKING LOT SIGNS AT THE SGRP OFFICE
(SEE ATTACHED SKETCH)

Department: SGRP (ENGL) Contact: DEWANE LUNKE Ext. 3581

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

No requirements for Post-holes

3. Potential permit or plan requirements/changes

<input checked="" type="checkbox"/> Critical Dune/High Risk Erosion	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Ground water
<input type="checkbox"/> Michigan Storm Water Construction Permit	<input type="checkbox"/> PIP Plan	<input type="checkbox"/> Storm water
<input type="checkbox"/> Erosion (Berrien Co. Drain Comm)	<input type="checkbox"/> SPCC Plan	<input type="checkbox"/> Chemical Storage Permit
<input type="checkbox"/> Waste Storage Permit	<input type="checkbox"/> Hazwoper	<input type="checkbox"/> NPDES
<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways	

4. Additional comments:

Reviewer/Evaluator
General Supervisor -
Environmental Review

Date 11/29/99

Date 11/29/99

A/R # AD189472
J.O. # C-53144
J.O.A. # C-53144-01

(Assigned by Environmental Affairs)
Review # 79-053
Revision # 0
Expiration Date 01 APRIL 00

PMP 6090 ADM.001
Attachment 2

*Closed and
sent to INRM
on 2/16/00
C.W.*

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

SECURE (NOIL) LEVELING PLATE AROUND CATCH BASIN LOCATED
NORTH OF RPAC. SEE ATTACHED DRAWINGS

Department: SGRP Contact: DEWAYNE LUKKE Ext. 3581

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

No Restrictions

3. Potential permit or plan requirements/changes

- | | | |
|---|--|--|
| <input type="checkbox"/> Critical Dune/High Risk Erosion | <input type="checkbox"/> Asbestos | <input type="checkbox"/> Ground water |
| <input type="checkbox"/> Michigan Storm Water Construction Permit | <input type="checkbox"/> PIP Plan | <input type="checkbox"/> Storm water |
| <input type="checkbox"/> Erosion (Berrien Co. Drain Comm) | <input type="checkbox"/> SPCC Plan | <input type="checkbox"/> Chemical Storage Permit |
| <input type="checkbox"/> Waste Storage Permit | <input type="checkbox"/> Hazwoper | <input type="checkbox"/> NPDES |
| <input type="checkbox"/> Air | <input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways | |

4. Additional comments:

Reviewer/Evaluator Beyford Date 12-17-99
General Supervisor - J. C. [Signature] Date 12-17-99
Environmental Review

DUPLICATE - USE AS ORIGINAL

closed 10/17/00
and sent to NDM Ene

A/R # A185916
J.O. # C54724
J.O.A. # _____

(Assigned by Environmental Affairs)

Review # 00-02

Revision # 1

Expiration Date 8/30/00 7/30/00 Ene 8/3/00
extended to 10/31/00 BK 7/26/00

PMP 6090 ADM.001

Attachment 2

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

This permit revision is to change the decontamination processes from those described in revision 0. The CO₂ and sponge blast processes included in the Master-Lee proposal will not be used. A PlasBlast self-contained plastic bead-blasting unit supplied by Bartlett will now be used. The plastic bead media is approved for use per permit # 1824. All other conditions remain the same.

Department: SGRP Contact: Steven Skrentny Ext./Pager 3536

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☒ YES ☐ N/A
(If yes, attach screening to this review) attached

2. Work requirements and restrictions

Sample Plastic Beads to ensure that waste is not desorb
as hazardous - contact env. during process so a sample for
TCLP can be taken. No other restrictions apply since it is self-
contained.

3. Potential permit or plan requirements/changes

- | | | |
|---|--|--|
| <input type="checkbox"/> Critical Dune/High Risk Erosion | <input type="checkbox"/> Asbestos | <input type="checkbox"/> Ground water |
| <input type="checkbox"/> Michigan Storm Water Construction Permit | <input checked="" type="checkbox"/> PIP Plan | <input type="checkbox"/> Storm water |
| <input type="checkbox"/> Erosion (Berrien Co. Drain Comm) | <input checked="" type="checkbox"/> SPCC Plan | <input type="checkbox"/> Chemical Storage Permit |
| <input type="checkbox"/> Waste Storage Permit | <input type="checkbox"/> Hazwoper | <input type="checkbox"/> NPDES |
| <input checked="" type="checkbox"/> Air | <input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways | |

4. Additional comments:

No additional critical dune erosion or stormwater permits
are required. No modification of the property will take place.
all work will take place in a controlled building

Reviewer/Evaluator Bla Jorjell
General Supervisor - W. Snyder
Environmental Review W. Snyder

Date 5-4-00

Date 5/5/00

ENVIRONMENTAL SCREENING FOR THE CONVERSION OF A SGRP LOWER ASSEMBLY STORAGE BUILDING INTO A DECONTAMINATION FACILITY

Pursuant to Technical Specifications Appendix B, Section 3.1, a review of the proposed activity is required to determine if the proposed activity has the potential for affecting the environment. A determination that the activity has the potential for significant adverse environmental impact would require an Environmental Evaluation. The Environmental review ensures compliance with local, state and federal environmental regulations pertaining to construction and related activities. Pursuant to 12 EA 6090 ENV.107, it is concluded that this activity does not adversely affect the environment.

DESCRIPTION OF PROPOSED ACTIVITY

A storage building originally intended to house the replacement steam generator lower assembly is to be converted into a decontamination facility. Equipment used in the SGRP will be decontaminated at this facility for unconditional release. The facility is a pre-fab steel walled warehouse. It is connected by doorway on both sides to other similar buildings. The side access doors will be boarded and nailed to prevent entry. The building will become a radiologically controlled area. The floor will be covered with herculite. Equipment will be brought in at one end to a staging area. (See attached layout) A PlasBlast self-contained glove box type plastic bead blast with attached recovery unit will be used. The enclosure is maintained at a negative pressure during operations and HEPA ventilation units are attached. There will be continuous air sampling and radiation protection coverage during operation of the PlasBlast plastic bead blasting unit. Effluent air samples will be taken inside the building's general area. All items that enter the controlled area as radioactive materials shall be surveyed and properly labeled prior to transport. Items entering the decontamination facility will be limited to < 25k dpm/100cm² loose surface contamination and < 100 mRem/hr contact dose rate.

Equipment that is determined to be radioactive after two efforts will be properly labeled and disposition may include retention, storage, disposal or shipment as appropriate and in compliance with applicable AEP procedures.

ENVIRONMENTAL REVIEW/EVALUATION

The only applicable environmental regulations involve air emissions and spill control measures.

The PlasBlast unit is a self contained enclosure. Air emissions from the unit are filtered through a HEPA ventilation unit and will meet ambient air requirements. No visible emissions will escape from the blast unit or the building confines. There are no particulate air emission environmental concerns.

The plastic bead material will generate particulate waste. The waste is sorted by the PlasBlast unit. Some of the plastic bead material will be recycled and used in the plastic bead-blasting unit. The plastic bead material that cannot be recycled will be disposed of as radioactive waste. The plastic bead must be labeled in accordance with the plant's chemical control program.

The currently installed electric air compressor will be used to supply compressed air to the PlasBlast unit. A 10' x 12' diesel powered compressor utilizing about 30 gallons/day of diesel may be required to be used if the electric air compressor is unavailable. Since the fuel thru-put is less than 73.5 gal/hr, an air permit is not required. The horse power rating on the diesel engine is 115 HP, which is less than the 300 HP required to be tracked for purposes of the annual air emissions inventory. The compressor will be located outside of the warehouse building. A berm enclosure to encompass the compressor will be used to contain diesel spills. The berm capacity will contain 110% of the oil volume in the compressor.

Provided that the above conditions are met, the project is in compliance with air permitting, SPCC and PIP Plan requirements.

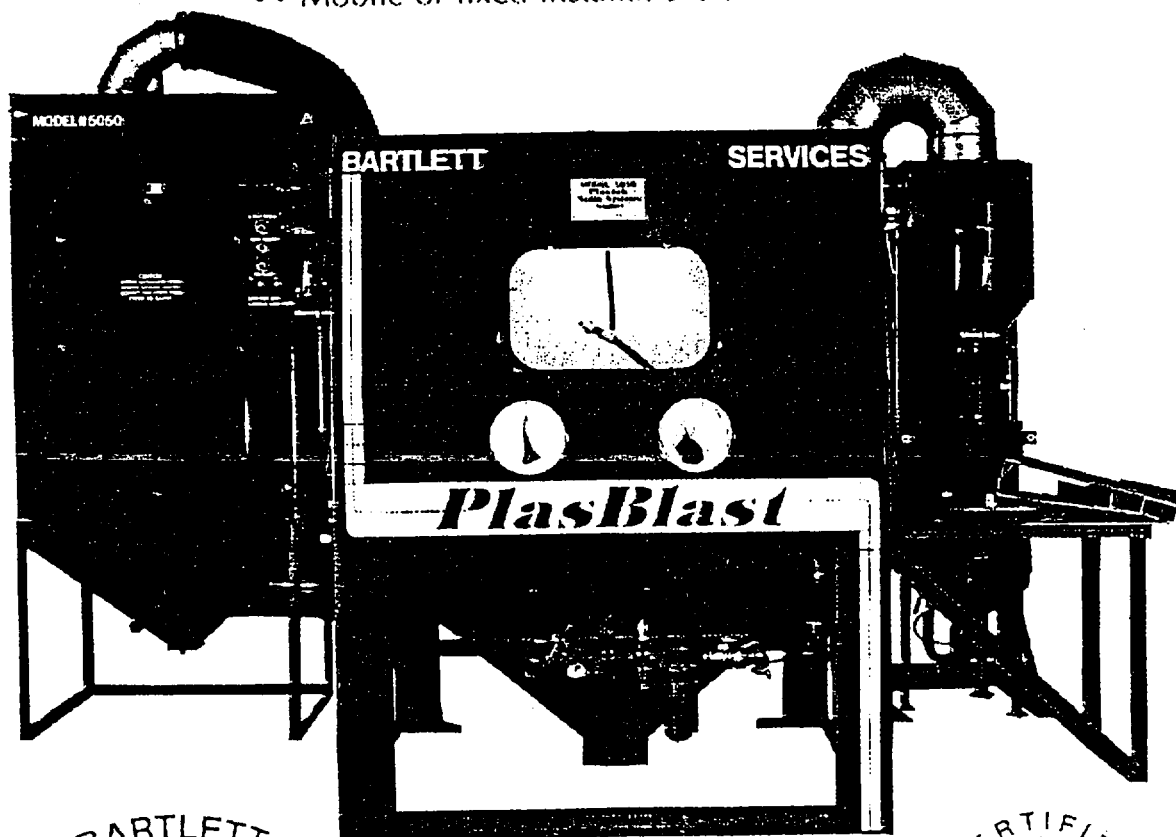
Plastek™ is fully approved for disposal by land burial and is SEG certified incinerable.

PlasBlast™

The decontamination system with an incinerable medium.

The Bartlett **PlasBlast**™ decontamination system utilizes a high velocity stream of incinerable plastic particles (**Plastek**™) to decontaminate most surfaces.

- The **PlasBlast**™ system has a lower capital cost than CO₂. ••
- More aggressive medium than CO₂. ••
- **Plastek**™ medium is recycled to reduce waste volume. ••
- Self-cleaning prefilter housing. ••
- Mobile or fixed installations available. ••



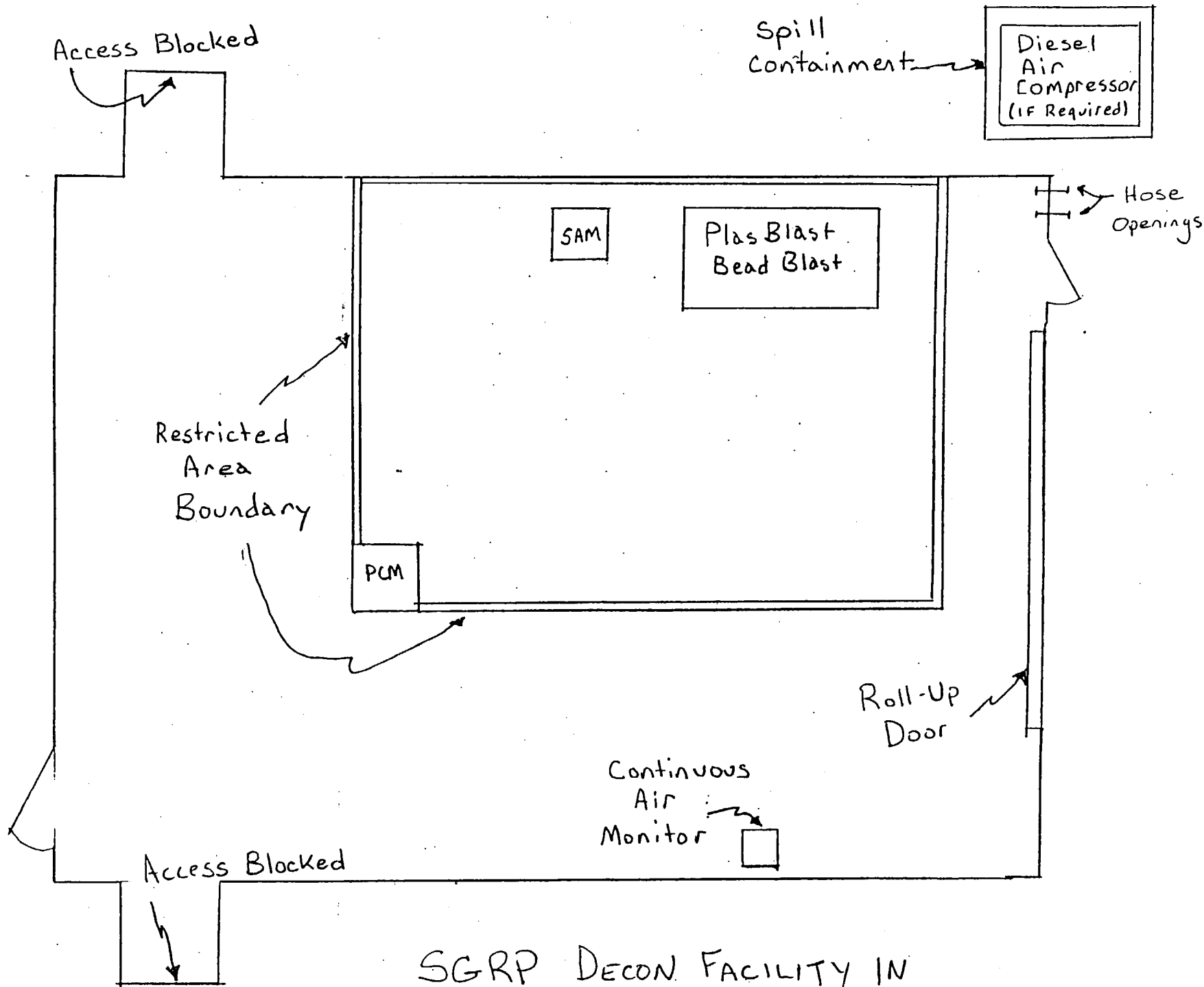
Call today for more information:

800-225-0385

Ext. 120
or 136

Bartlett Services, Inc. • Post Office Box 1800
Plymouth, MA 02362





SGRP DECON FACILITY IN
#2 STORAGE BUILDING

Closed 7/17/00
Cen.

A/R # A0188075
J.O. # C50502
J.O.A.# C50502-01

(Assigned by Environmental Affairs)
Review # 00-03
Revision # 0
Expiration Date 6/4/00

PMP 6090 ADM.001
Attachment 2

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

REF OLD Dig PERMIT NO. 1043 AND ATTACHED MAP
- REPAIR EXISTING H₂O VALVE BOX (CONSTRUCTION) AND ROADWAY

Department: SGRP Contact: DEWAYNE SYHNKE Ext. 3581

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

Protect all storm drain from soil + runoff
CONTACT ENV. for disposal of waste debris.

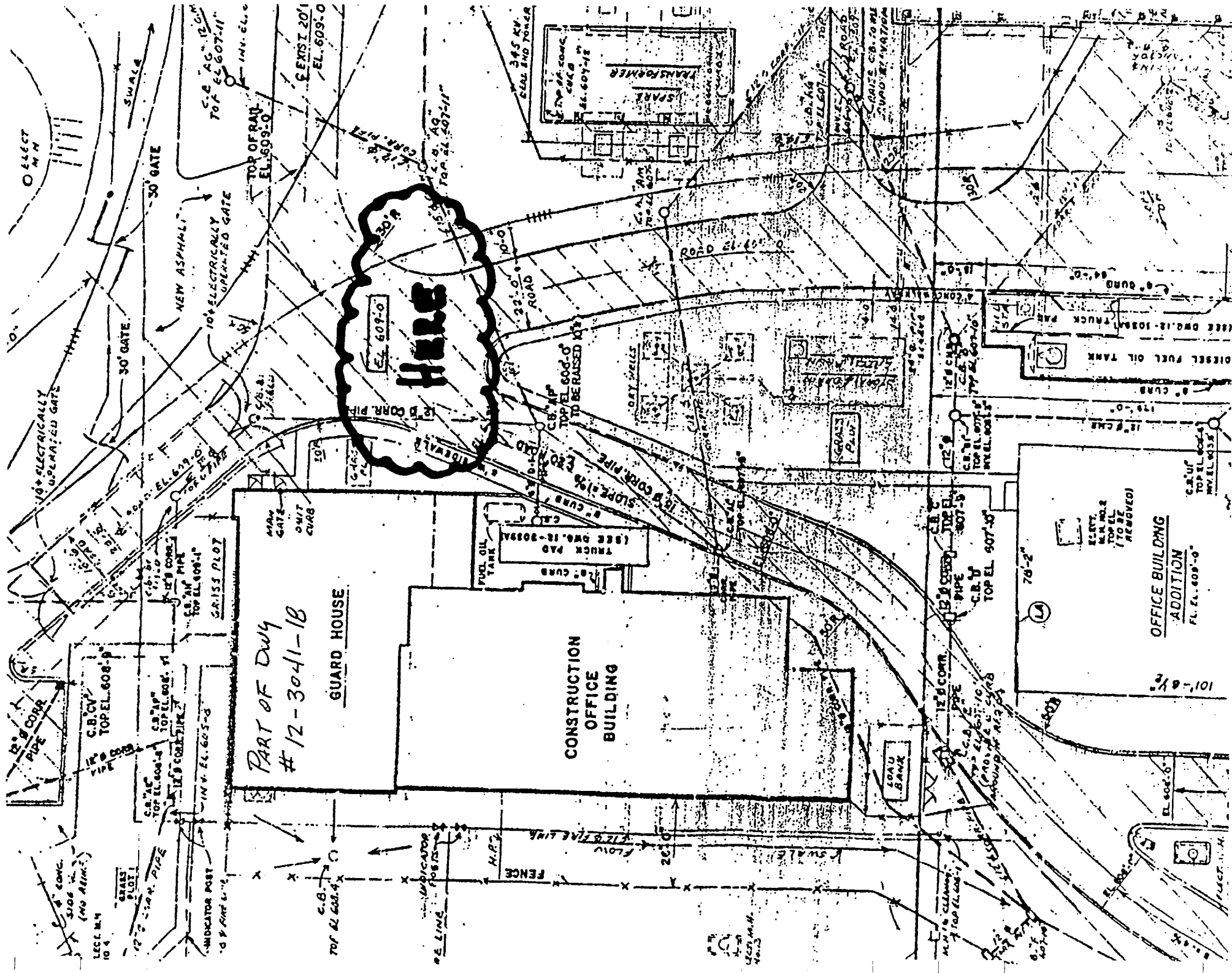
3. Potential permit or plan requirements/changes

<input checked="" type="checkbox"/> Critical Dune/High Risk Erosion	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Ground water
<input checked="" type="checkbox"/> Michigan Storm Water Construction Permit	<input checked="" type="checkbox"/> PIP Plan	<input checked="" type="checkbox"/> Storm water
<input checked="" type="checkbox"/> Erosion (Berrien Co. Drain Comm)	<input checked="" type="checkbox"/> SPCC Plan	<input checked="" type="checkbox"/> Chemical Storage Permit
<input checked="" type="checkbox"/> Waste Storage Permit	<input checked="" type="checkbox"/> Hazwoper	<input checked="" type="checkbox"/> NPDES
<input checked="" type="checkbox"/> Air	<input checked="" type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways	

4. Additional comments:

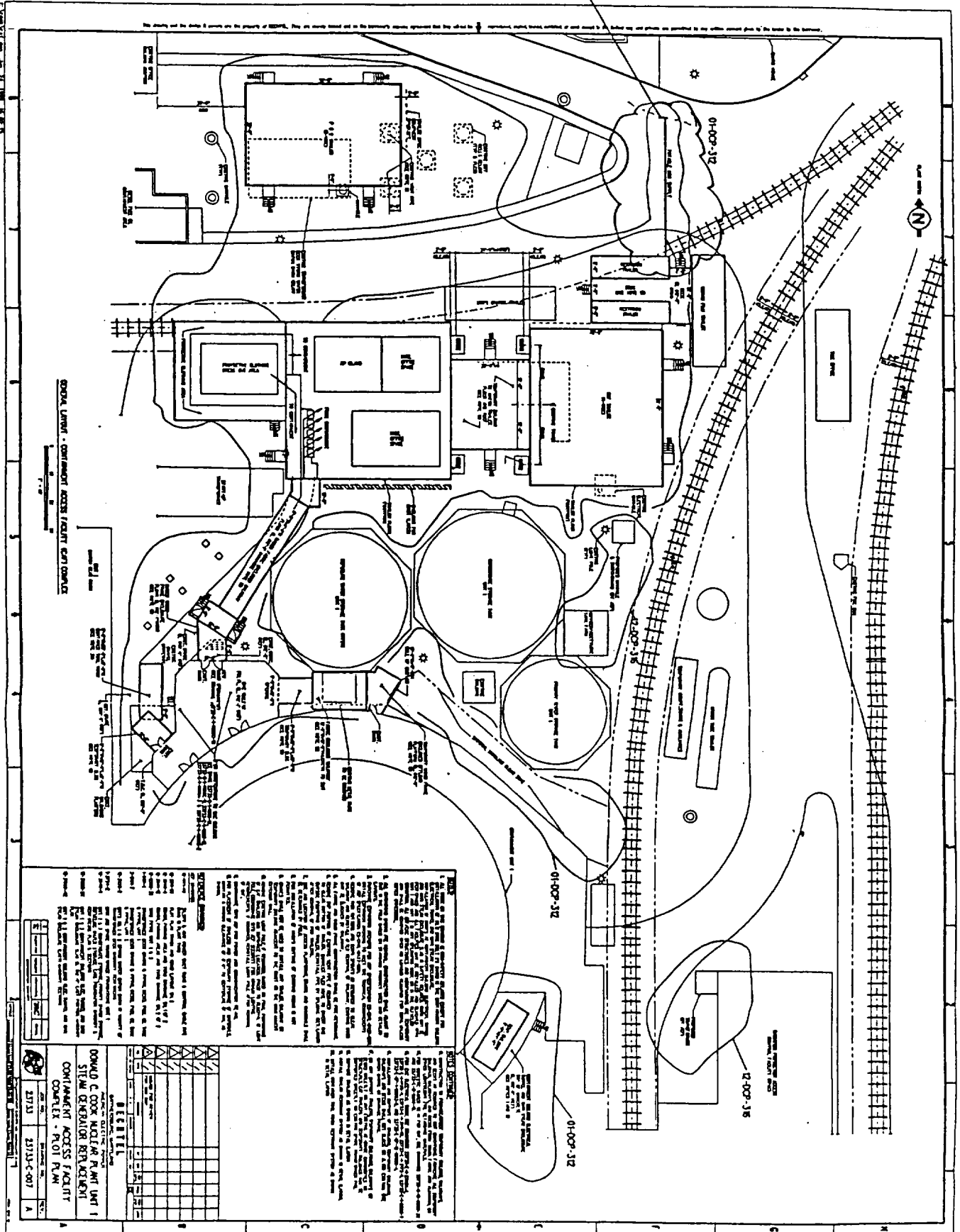
BC Erosion permit #2732 shall in effect until 6/4/00
Crit Dune Exemption letter June 1, 1999.

Reviewer/Evaluator Blaford Date 2/23/00
General Supervisor - [Signature] Date 2/24/00
Environmental Review



H/OCS 700000
 2751

located bearing
 AT 10'



LEGEND

01-00P-312: 01-00P-312

01-00P-316: 01-00P-316

01-00P-318: 01-00P-318

01-00P-319: 01-00P-319

01-00P-320: 01-00P-320

01-00P-321: 01-00P-321

01-00P-322: 01-00P-322

01-00P-323: 01-00P-323

01-00P-324: 01-00P-324

01-00P-325: 01-00P-325

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01-00P-327: 01-00P-327

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01-00P-397: 01-00P-397

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01-00P-399: 01-00P-399

01-00P-400: 01-00P-400

Closed and sent to NRM
8-9-00 D. Warner

AVR # A139356 (Assigned by Environmental Affairs) PMP 6090 ADM.001
J.O. # C54764 Review # 00-04 Attachment 2
J.O.A.# 01 Revision # 2
DCP # 01-DCP-309 Expiration Date 6/1/00 6/1/00 B&Z
7/30/00 - extended.

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

PROVIDE TEMPORARY TEST AREA, PUMPER AREA, CHUTE WASH OUT
AREA & SPOIL CONCRETE AREA TO SUPPORT RESTORATION OF U1 SG
ENCLOSURE CONCRETE. NOTE ALL AREAS SAME AS PER REVISION 1
EXCEPT ALTERNATE LOCATION FOR CHUTE WASH OUT.

Department: SGRP Contact: RAY BROWN Ext. 3565

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

Keep area clear of non-company vehicles, follow attached
instructions.

3. Potential permit or plan requirements/changes

<input type="checkbox"/> Critical Dune/High Risk Erosion	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Ground water
<input type="checkbox"/> Michigan Storm Water Construction Permit	<input type="checkbox"/> PIP Plan	<input type="checkbox"/> Storm water
<input type="checkbox"/> Erosion (Berrien Co. Drain Comm)	<input type="checkbox"/> SPCC Plan	<input type="checkbox"/> Chemical Storage Permit
<input type="checkbox"/> Waste Storage Permit	<input type="checkbox"/> Hazwoper	<input type="checkbox"/> NPDES
<input type="checkbox"/> Air	<input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways	

4. Additional comments:

(00-04)

Same as Rev. 0, and 1. This revision is to change location
to one near the paint and blast buildings.

Reviewer/Evaluator
General Supervisor -
Environmental Review

B. J. Jordan
[Signature]

Date 5-8-00

Date 5-8-00

Closed and sent to NRM
8-9-00 D. Warlin

A/R # A189356
J.O. # C54764
J.O.A.# 01

(Assigned by Environmental Affairs)
Review # 00-04
Revision # 1
Expiration Date 6/4/00

PMP 6090 ADM.001
Attachment 2

DCP# 01-DCP-309

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

PROVIDE TEMPORARY TEST AREA, PUMPER AREA, CHUTE WASH OUT AREA & SPILL CONCRETE AREA TO SUPPORT RESTORATION OF UI SG ENCLOSURE CONCRETE.

Department: SGRP Contact: RAY BROWN Ext. 3565

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

All Requirements remain in effect from original Review
00-04- Revision Q. - See Attachment to this form.
(A) Relocate Temp Spill area to Location agreed upon by Gnu.

3. Potential permit or plan requirements/changes

<input type="checkbox"/> Critical Dune/High Risk Erosion	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Ground water
<input type="checkbox"/> Michigan Storm Water Construction Permit	<input type="checkbox"/> PIP Plan	<input type="checkbox"/> Storm water
<input type="checkbox"/> Erosion (Berrien Co. Drain Comm)	<input type="checkbox"/> SPCC Plan	<input type="checkbox"/> Chemical Storage Permit
<input type="checkbox"/> Waste Storage Permit	<input type="checkbox"/> Hazwoper	<input type="checkbox"/> NPDES
<input type="checkbox"/> Air	<input type="checkbox"/> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways	

4. Additional comments:

All Requirements remain in effect from original Review.

Reviewer/Evaluator

General Supervisor -

Environmental Review

Date

Date

Closed and sent to NRM
8-9-00 D. Walker

A/R # A0189356

J.O. # C54764

J.O.A. # 01

DCP # 01-DCP-309

(Assigned by Environmental Affairs)

Review # 00-04

Revision # 0

Expiration Date 6/4/02

PMP 6090 ADM.001

Attachment 2

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

PROVIDE TEMPORARY STAGING AREAS FOR UNIT #1 (DOG HOUSE) CONCRETE REPLACEMENT. INCLUDING BUT NOT LIMITED TO TESTING AREA, CHUTE CLEAN OUT BASIN (CONCRETE MIXERS) AND CONCRETE SPILL AREA.

Department: SGRP Contact: DEWAYNE SUMNER Ext. 3581/1370

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

NO Chute cleanouts or rinsing is allowed to go to the ground. (STATE LAW)
Clean-out in designated areas only. Concrete waste to designated areas only. When cured, place in dumpster. CONTACT ENV for disposal of waste debris.
See addendum #1

3. Potential permit or plan requirements/changes

- ☐ MA Critical Dune/High Risk Erosion
☐ Michigan Storm Water Construction Permit
☐ Erosion (Berrien Co. Drain Comm)
☐ Waste Storage Permit
☐ Air

- ☐ Asbestos
☐ PIP-Plan
☐ SPCC Plan
☐ Hazwoper
☐ Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways
- Controlled for Direction
☒ Ground water
☐ Storm water
☐ Chemical Storage Permit
☐ NPDES

4. Additional comments:

Per GW office:
Waste Concrete in Barrels: Segregate all Barrels, Ship to Berrien Co. as separate Load. Contact Berrien Co. first before shipping.
(616) 756-4252
See addendum #1

Reviewer/Evaluator
General Supervisor -
Environmental Review

B. Blaford

Date 2-23-00

J. L. L.

Date 2-24-00

A/R # 1VA
J.O. # NA
J.O.A.# 1VA

(Assigned by Environmental Affairs)

Review # 00-08

Revision # 0

Expiration Date 11/1/00 extend until 12/31/00

PMP 6090 ADM.001

Attachment 2

C.U. 10/13/00

PROJECT ENVIRONMENTAL REVIEW

Closed and
sent to NAM
1/2/01 E.U.

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

Utilize areas adjacent to hard pan gravel road surfaces in Env.
spoils yard to store U/L SWRP sealants with U/L giant equip &
Radioactive waste (non-chemical) awaiting reuse or shipment/outgoing
AND OUTLAYING AREAS AS NOTED ON ATTACHED MAPS.

Department: SWRP / RP Contact: John Harris Ext. 2738

B. ENVIRONMENTAL REVIEW/EVALUATION (Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

Temporary area along creek is approved until 7/1/00.
All Seal Vans must be moved ^{H&L} into their new spots by then.
No Site Preparation is allowed in this permit - this is beyond an area only.

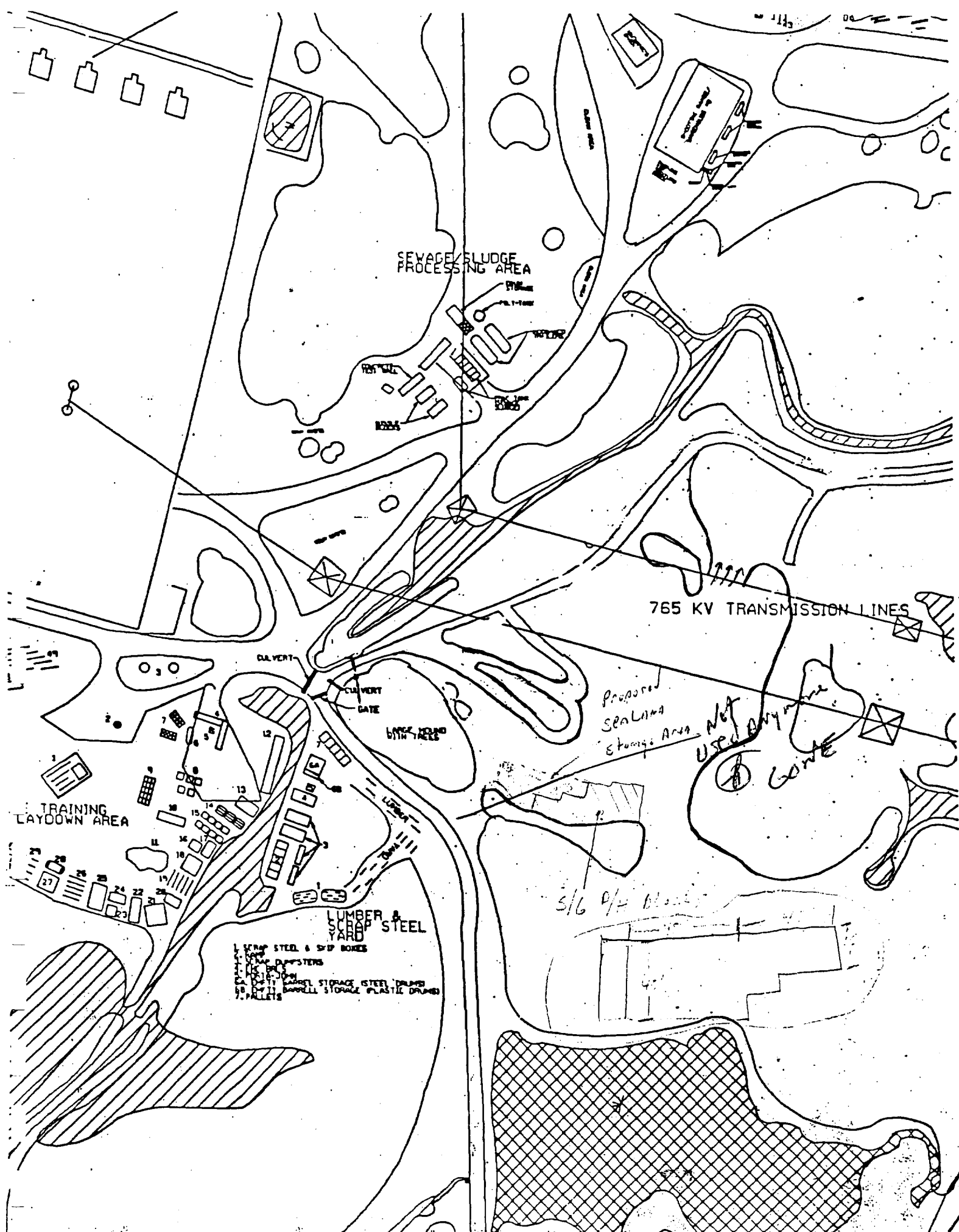
3. Potential permit or plan requirements/changes

- | | | |
|---|--|--|
| <input type="checkbox"/> <u>NA</u> Critical Dune/High Risk Erosion | <input type="checkbox"/> <u>NA</u> Asbestos | <input type="checkbox"/> <u>NA</u> Ground water |
| <input type="checkbox"/> <u>NA</u> Michigan Storm Water Construction Permit | <input type="checkbox"/> <u>NA</u> PIP Plan | <input type="checkbox"/> <u>NA</u> Storm water |
| <input type="checkbox"/> <u>NA</u> Erosion (Berrien Co. Drain Comm) | <input type="checkbox"/> <u>NA</u> SPCC Plan | <input type="checkbox"/> <u>NA</u> Chemical Storage Permit |
| <input type="checkbox"/> <u>NA</u> Waste Storage Permit | <input type="checkbox"/> <u>NA</u> Hazwoper | <input type="checkbox"/> <u>NA</u> NPDES |
| <input type="checkbox"/> <u>NA</u> Air | <input type="checkbox"/> <u>NA</u> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways | |

4. Additional comments:

Inspect sites occasionally for Erosion/spots, trash, or other debris
that impact the ^{ORZ} site. When complete with area, restore
area with a walkdown. No Cracking or other debris is permissible.

Reviewer/Evaluator Blaford Date 3-28-00
General Supervisor - M. Snyder
Environmental Review 11/1/00 Date 3/28/00



SEWAGE/SLUDGE
PROCESSING AREA

765 KV TRANSMISSION LINES

TRAINING
LAYDOWN AREA

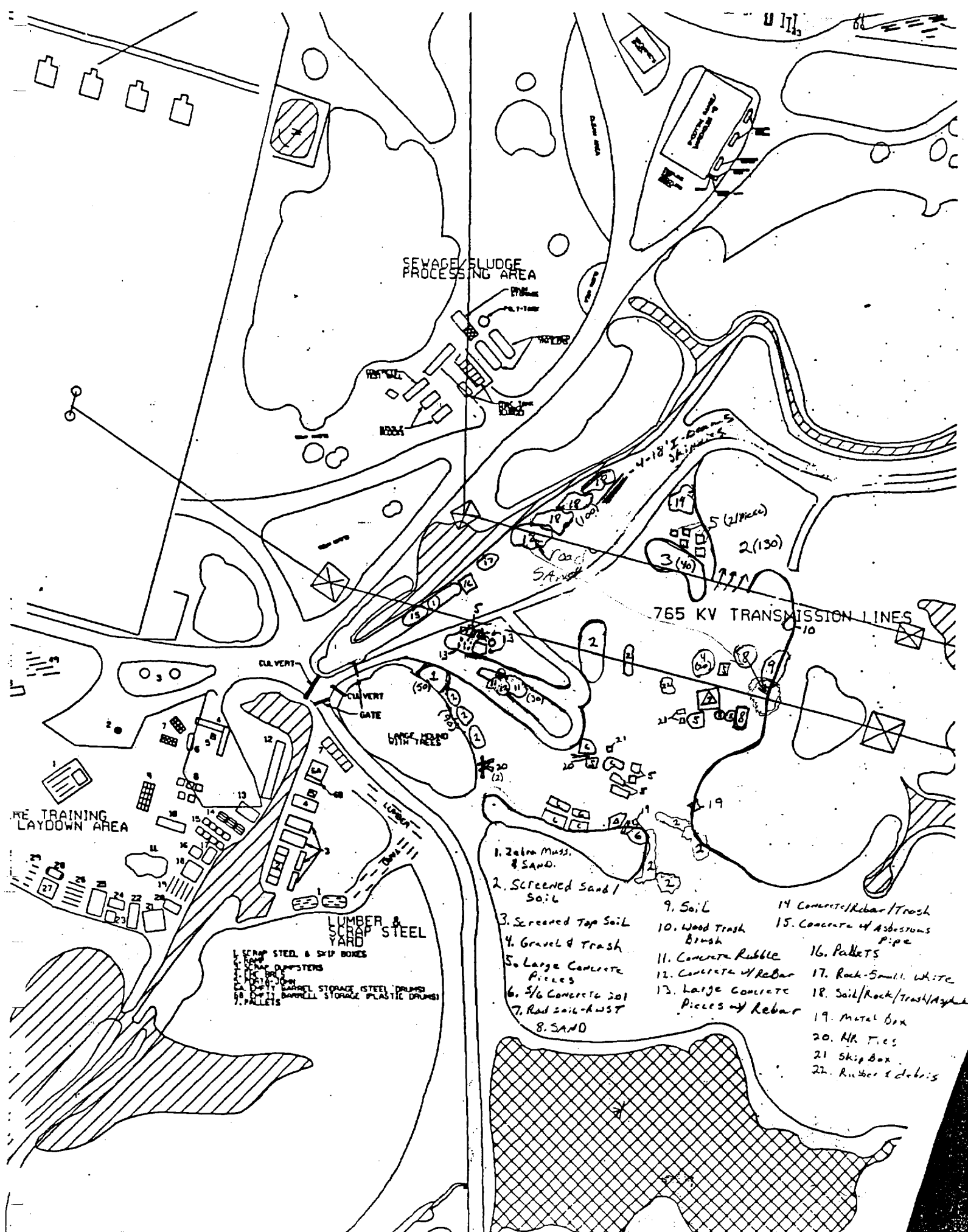
LUMBER &
SCRAP STEEL
YARD

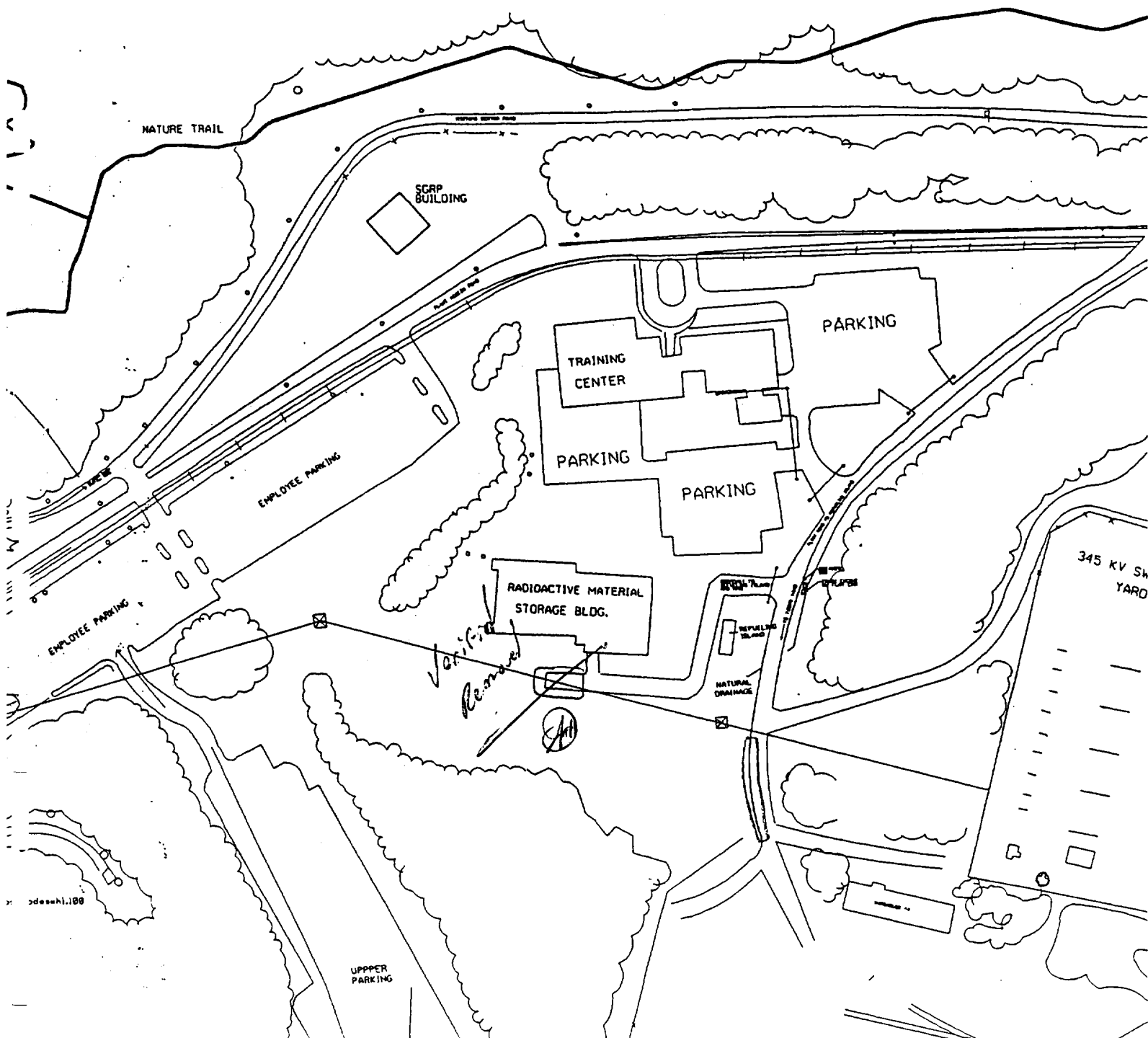
1. SCRAP STEEL & SHIP BOXES
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PROPOSED
SEALING
STORAGE AREA

NOT
USED ANYMORE
GONE

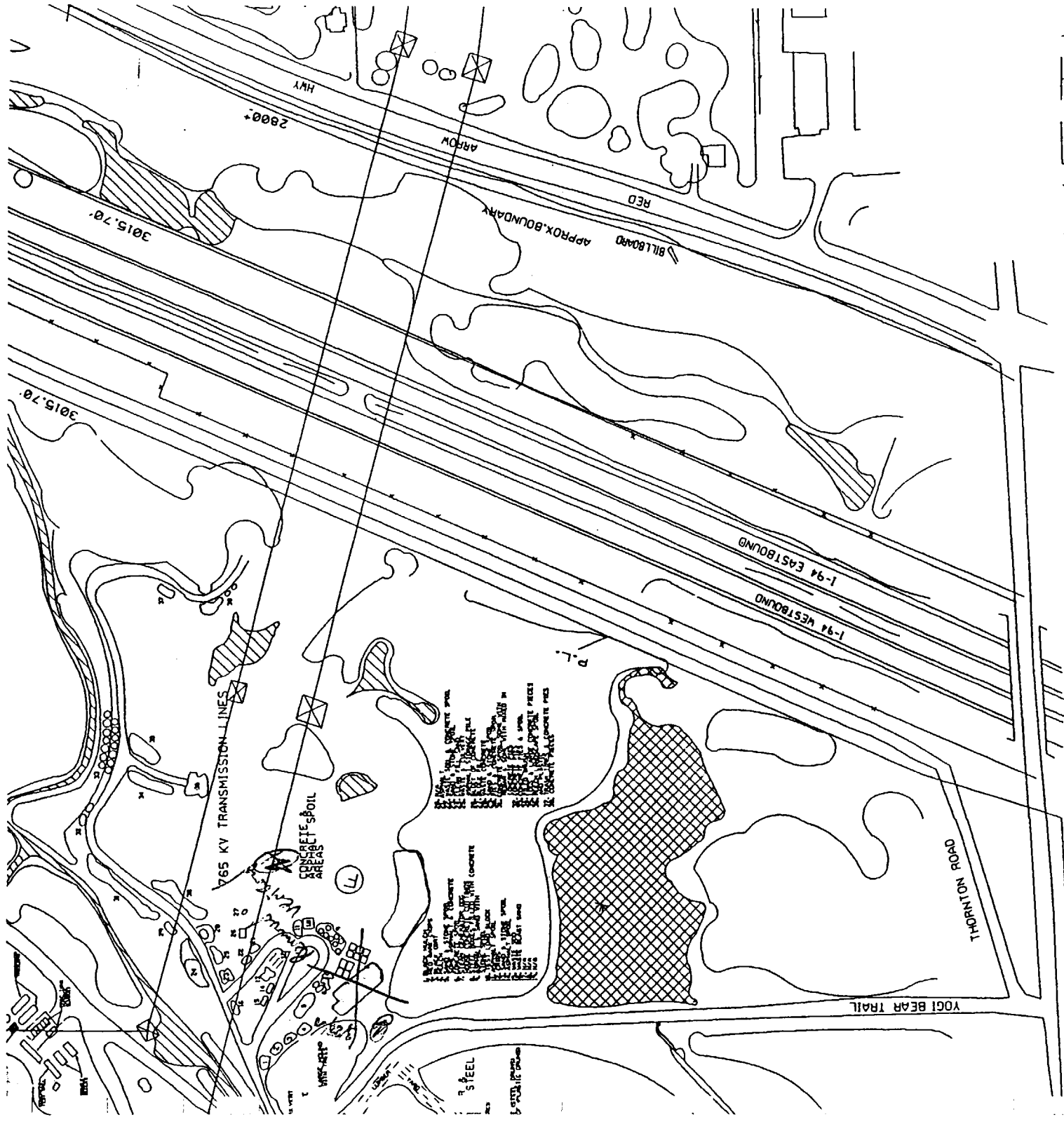
5/6 P/H BLOCK

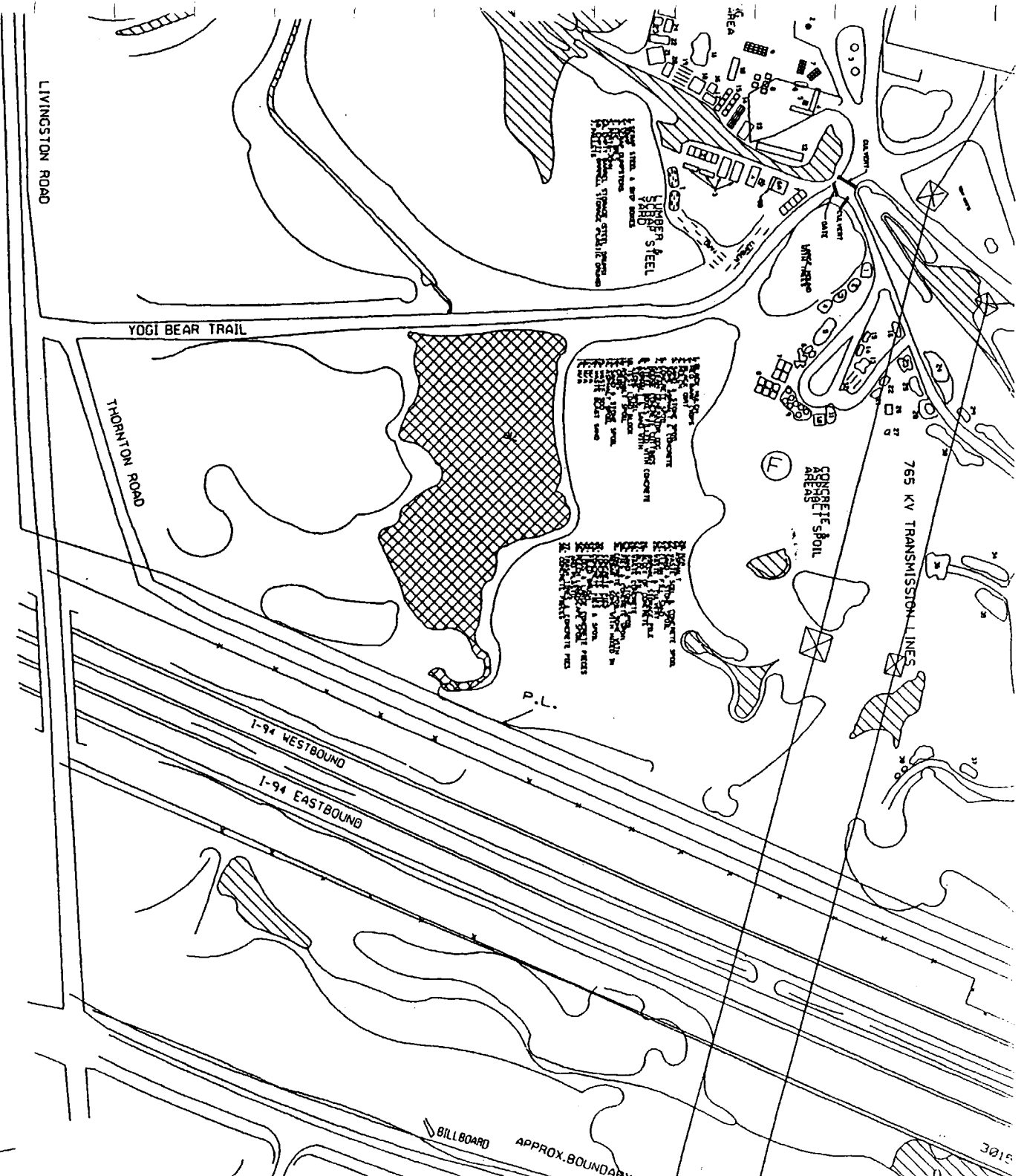




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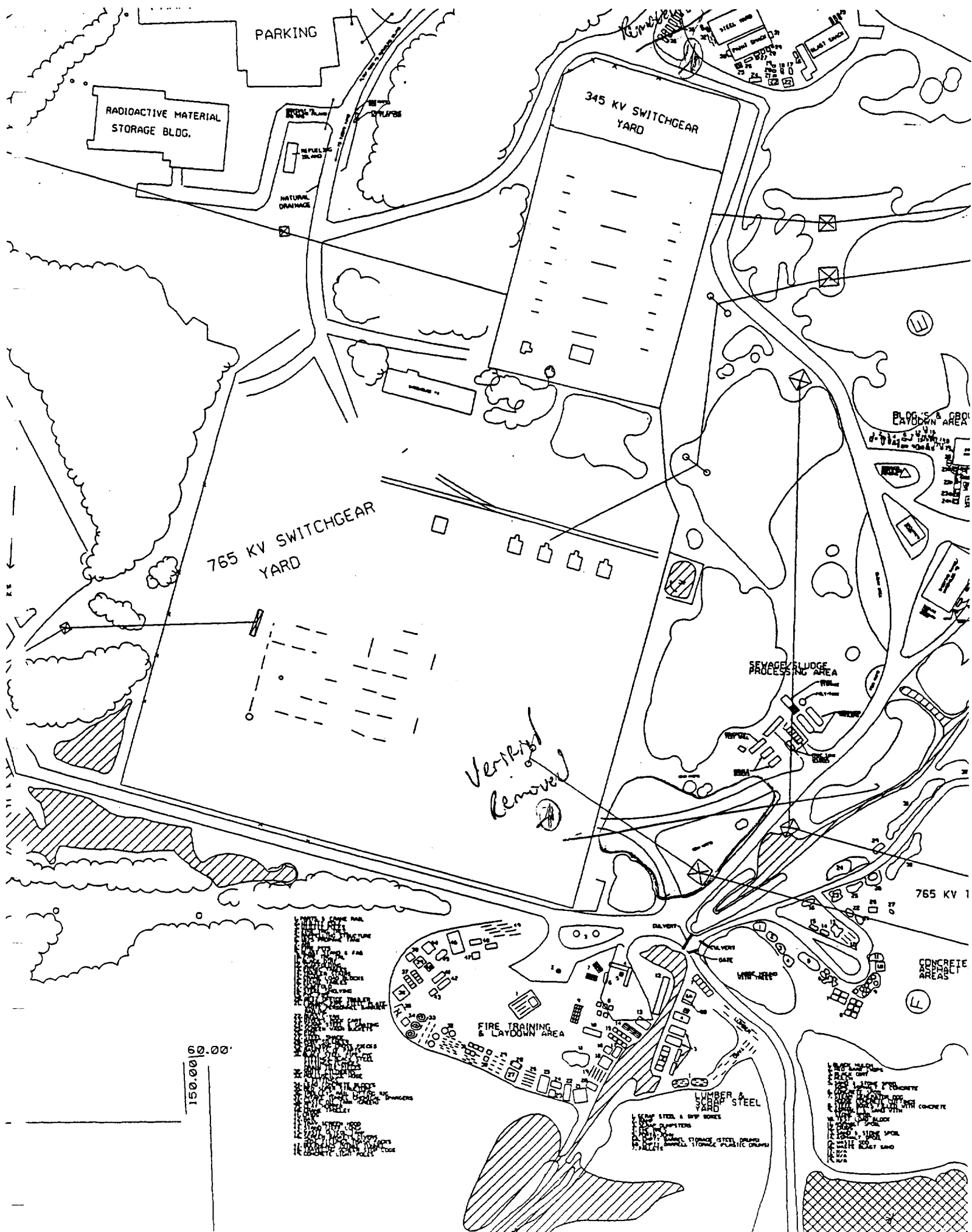


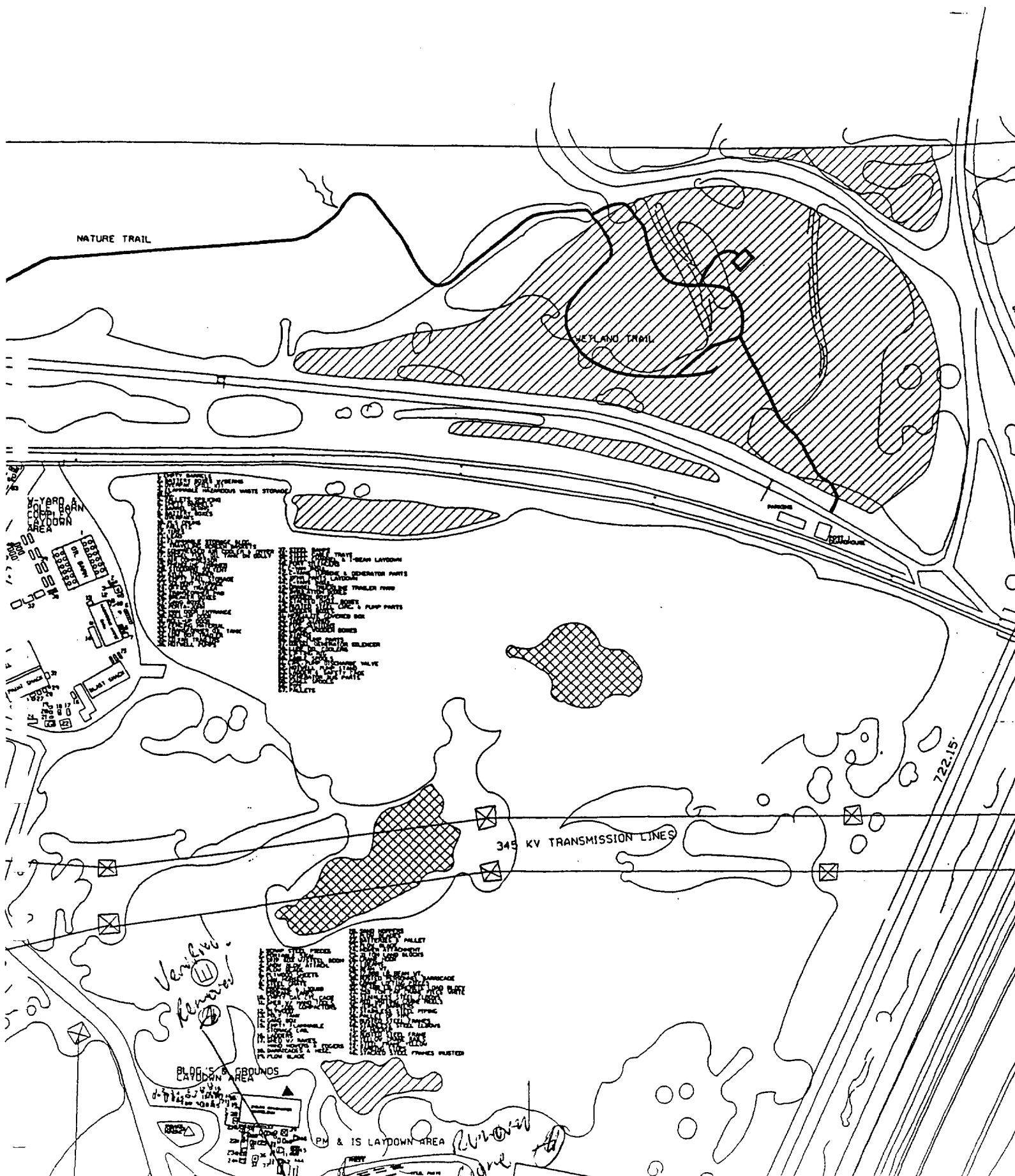
JK SITE MAP

NOVEMBER 1997

s/cook/u12 sitemaps/npdeswh1.100

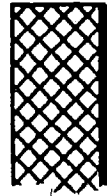




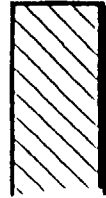




WETLANDS



NATURAL



NATURAL/MANMADE



EXEMPT

A/R # A0185916

J.O. # 01

J.O.A. # C0049698-01

WP#IR # C-F10-110

(Assigned by Environmental Affairs)

Review # 00-29 (REF 99-013)

Revision # 0

Expiration Date 8/31/00

PMP 6090 ADM.001

Attachment 2

Closed 7/20/00

and sent
to NDM

PROJECT ENVIRONMENTAL REVIEW

A. DESCRIPTION OF PROPOSED ACTIVITY

Provide a brief description of the proposed activity. Include applicable supporting documentation to facilitate the review (e.g., map/drawing, type of chemicals, etc.). Provide Action Request number, Job Order and Job Order Activity, if applicable. Attach additional pages as necessary.

REMOVE TEMPORARY POWER FEED FROM JUNCTION PANEL TO TEMPORARY
CHANGE AND PURCHASING TRAILERS (SEE ATTACHED DRAWING) ALSO INSTALLATION
OF SOIL EROSION MATERIAL AS REQUIRED.

Department: SGRP Contact: DEWANE VIKINS Ext. 3521

B. ENVIRONMENTAL REVIEW/EVALUATION

(Environmental Affairs to Complete)

1. Is an Environmental Screening required? ☐ YES ☒ N/A
(If yes, attach screening to this review)

2. Work requirements and restrictions

Prevent soil erosion at slopes by mulching with
straw mat, straw, or etc. mulch material.

3. Potential permit or plan requirements/changes

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> <u>NA</u> Critical Dune/High Risk Erosion | <input checked="" type="checkbox"/> <u>NA</u> Asbestos | <input checked="" type="checkbox"/> <u>NA</u> Ground water |
| <input checked="" type="checkbox"/> <u>NA</u> Michigan Storm Water Construction Permit | <input checked="" type="checkbox"/> <u>NA</u> PIP Plan | <input checked="" type="checkbox"/> <u>NA</u> Storm water |
| <input checked="" type="checkbox"/> <u>NA</u> Erosion (Berrien Co. Drain Comm) | <input checked="" type="checkbox"/> <u>NA</u> SPCC Plan | <input checked="" type="checkbox"/> <u>NA</u> Chemical Storage Permit |
| <input checked="" type="checkbox"/> <u>NA</u> Waste Storage Permit | <input checked="" type="checkbox"/> <u>NA</u> Hazwoper | <input checked="" type="checkbox"/> <u>NA</u> NPDES |
| <input checked="" type="checkbox"/> <u>NA</u> Air | <input checked="" type="checkbox"/> <u>NA</u> Joint Army Corps of Engineer/MDEQ Permit for Wetlands and Waterways | |

4. Additional comments:

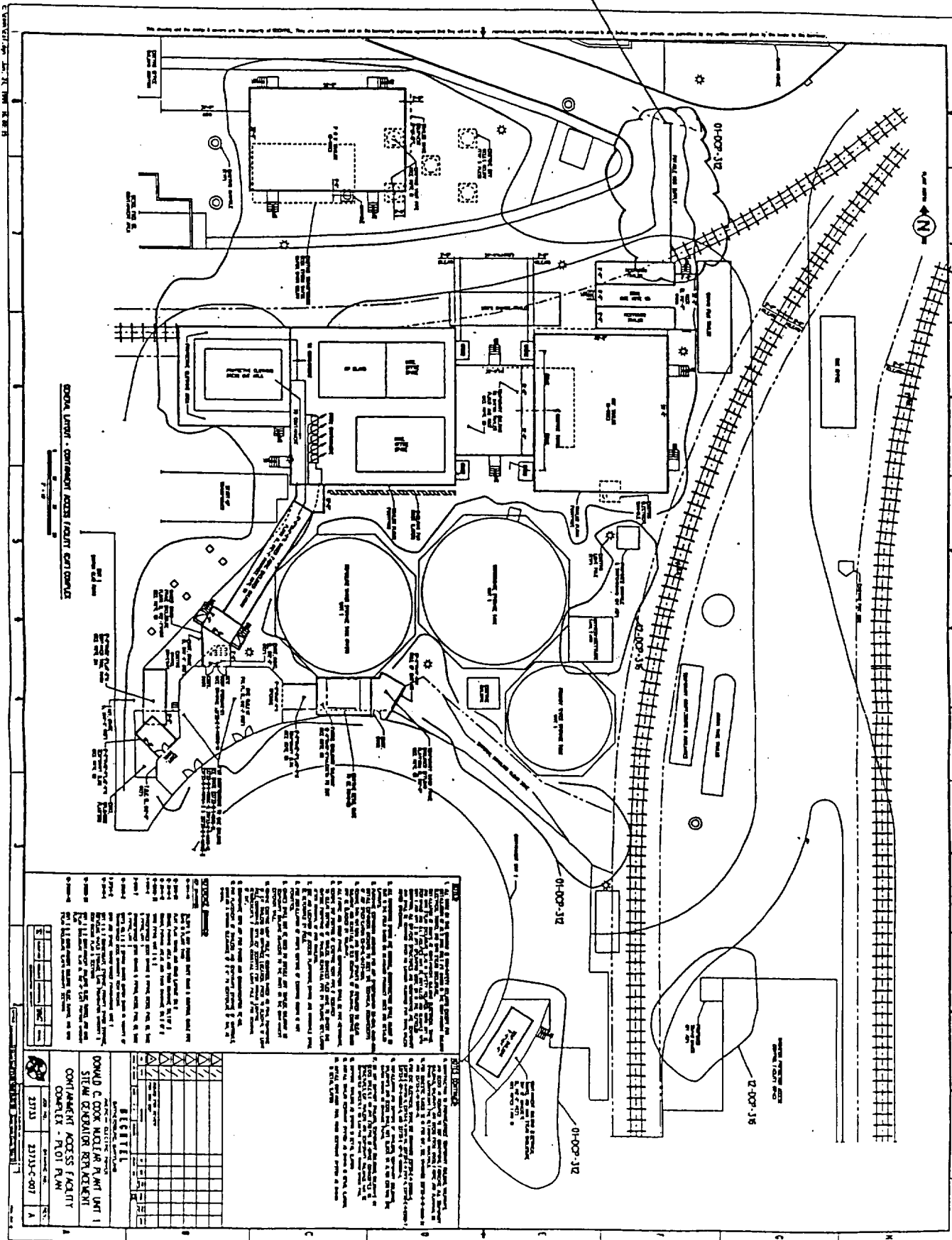
No additional permits required.

Reviewer/Evaluator
General Supervisor -
Environmental Review

Date 7-24-00

Date 7-25-00

AT 10'



APPENDIX III
HERBICIDE APPLICATION REPORT
2000



Date January 31, 2001
Subject 2000 Herbicide Spray Report - Cook Nuclear Plant
From Jon H. Harner
To J. P. Carlson

The following herbicides were applied on Cook Nuclear Plant property during 2000:

Weed-B-Gone	Oust
Karmex DF with Hi-Lite Indicator	Round-Up Pro
Riverdale Solution Water Soluble IVM	Garlon 4
Arboroil	Ax-it
Tordon	

DeAngelo Brothers

On the dates of May 2, 3, 4, and 11 a mixture of Karmex DF with indicator, Oust, and Riverdale Solution was used for total plant control in the 69KV, 345KV and 765 KV switch yards, railroad right-of-ways, around buildings, parking lots, and within the plant's protected area. DeAngelo Brothers; a Michigan licensed herbicide applicator (Jeff Callaway) on contract to the AEP Western Division performed the application. A total of 308 pounds of Karmex DF, 77 oz. of Oust, and 693 oz. (21.7 qts) of Riverdale Solution were used for the application and spread over 48 acres. Hi-Light Indicator, a marker dye, was used at a rate of 3 oz. per 80-gallon mix or less. The following table details the application rates used compared to the allowable application rates. The herbicides were applied according to the manufacturer's labeled instructions and according to Federal and State requirements.

Product Name	Quantity Used	Quantity Used/Acre	Quantity Allowed/Acre
Karmex DF	308 lb.	6.4 lb.	15 lb.
Oust	77 oz.	1.6 oz.	8 oz.
Riverdale Solution	693 oz.	14.4 oz.	45 oz.
Hi-Light Indicator	178 oz.	3 oz./80 gal. mix	9.6 oz./80 gal. mix

Plant Buildings and Grounds

On the following dates, Round-Up Pro mixed with water in a backpack sprayer was used to spot spray weeds in the landscaped stone, 06/06/00, 07/26/00, 08/24/00, 8/25/00, and 10/31/00. The stone areas included, along the plant railroad tracks, the sewage ponds, and around the trailers, transformers, and U-1 refueling water storage tank in the protected area. A total of 90 ounces of Round-Up Pro was used for spot spraying in 2000. Weed-B-Gone was applied to the grassy areas in side the protected area on 08/23/00 and again on 09/21/00. During these applications a total of 11 ounces of Weed-B-Gone were used to spot treat weeds.

The applications were performed by a licensed applicator from the Maintenance Sunstates Buildings and Grounds crew, Pat O'Malley. As these applications were not broadcast, weeds were individually spot sprayed, product usage rates per acre are not reported for these applications. The herbicides were applied according to manufacturer's labeled instructions, Federal, and State requirements.

Product Name	Quantity Used	Quantity Used/Area	Quantity Allowed/Area
Weed-B-Gone	11oz.	Spot sprayed at 1.0 oz/gal	1.0 oz/gal for Spot spraying
Round-Up Pro	74 oz.	Spot sprayed at 2.0 oz/gal	2.0 oz/gal for Spot spraying

AEP Transmission Personnel

On 06/08/2000, 06/27/00, and 08/23/00 the herbicide products listed below were applied to various stumps around the meteorological tower, under the 765kv transmission lines, and the crosstie area between the 34kv line to the 345kv switchyard. These applications were performed by licensed applicators of AEP (Earl Farrington, Greg Thompson, and John Trombley) and with oversight by a Plant Environmental Specialist. The herbicides were applied according to the manufacturer's labeled instructions and according to Federal and State requirements.

Product Name	Quantity Used	Quantity Used/Area	Quantity Allowed/Area
Tordon	0.5 gal	Applied to stumps – met tower (1.6 A).	2 gal/Acre
Garlon – 4/Arboroil	8 gal (25/75)	Applied to stumps – 765kv (4.5 A)	8 gal/Acre
Garlon – 4/Ax-it	1 pint -premix	Applied to stumps- 34kv/345kv (0.5A)	8 gal/Acre

Mortality Inspection

Between October 23 and October 29, 2000, the mortality of these herbicide applications was assessed to be greater than 95% with a few specific exceptions by environmental technician Mr. Dean Warlin as per 12 PMP 2160 HER.001. There was no evidence of over-spray or spillage in any of the application areas. The results of the inspection were as follows:

- Along the railroad tracks East of Red Arrow Highway there is plant growth in the area of the first switch to the North of the CSX tracks on the AEP side for about 250 feet, also, the final 500 feet South before our tracks rejoin the CSX tracks.
- Grapevine growing along the railroad tracks at the switch off our main spur to the 765kV Yard.
- Scattered small aspens and two small bushes in the 765kV yard next to the Preferred Source #2 breaker bank.
- Plants coming up in the 345kV Yard at the entrance from the 765kV Yard, the SE corner and along the West side.

Areas untreated in 2000 but need treatment in 2001.

- The following areas (flower beds) showed a need for treatment:
 1. West of the RMB
 2. Around the N.E. fire door from the RMB
 3. South and East lawns of the Training Building
 4. South of the OBA.

Summary

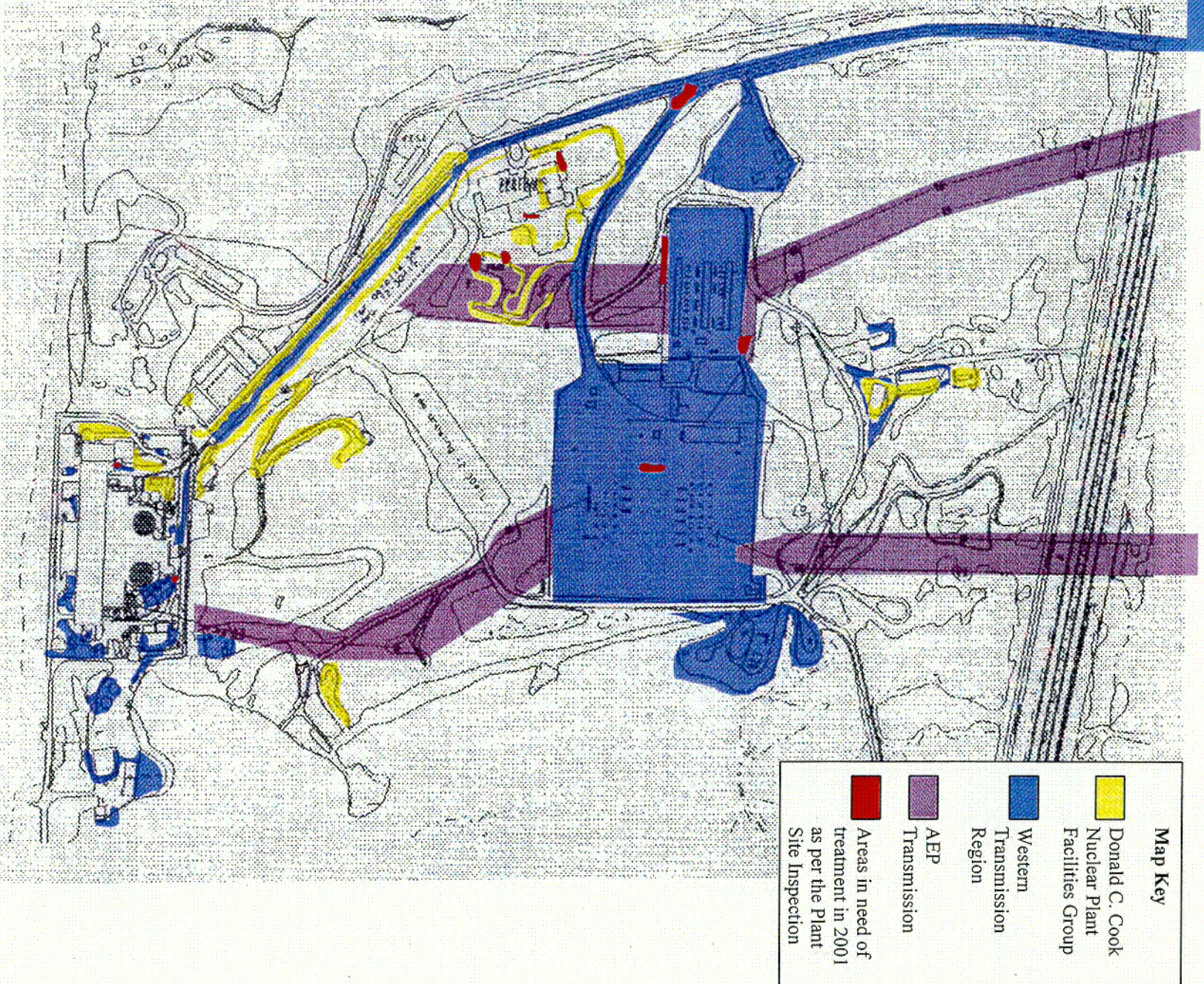
Based upon our review of the application records, manufacturer specifications, material safety data sheets (MSDSs) and observations of the treated areas, the herbicides were applied according to the manufacturer's labeled instructions and according to Federal and State requirements. As required by the State of Michigan all personnel performing herbicide applications were licensed. A map has been included with this report indicating areas of herbicide application. Detailed maps and application records are filed in 12 PMP 2160 HER.001, Guidelines for the Application of Approved Herbicides. No signs of over spray or spillage were observed or noted. No adverse environmental effects occurred.

Jon H. Harner – Environmental Specialist

Guidelines for the Application of Approved Herbicides

Figure 1

Map 1

Page:
9
Meteorological Tower

C-1