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ADDENDUM TO THE PHASE I DATA
SUMMARY INDUSTRIAL AREA
ENVIRONMENTAL EVALUATION

ROCKY FLATS PLANT
INDUSTRIAL AREA
(OPERABLE UNIT NOS 8, 9, 10, 12, 13 and 14)

US DEPARTMENT OF ENERGY
Rocky Flats Plant
Golden, Colorado

ENVIRONMENTAL MANAGEMENT PROGRAM

NOVEMBER 1993

ADMIN RECORD

A-DU08-000180

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1.0 INTRODUCTION

This document is an addendum to the Phase I Data Summary (DOE, 1993a) that was submitted on October 27, 1993. The Phase I Data Summary and this addendum are intended to satisfy the Work Plan requirements for the Industrial Area Environmental Evaluation (IAEE). The bird survey was not conducted during the original field program because of access restrictions. Field activities were performed as outlined in the IAEE Field Sampling Plan (DOE, 1993b). The purpose of this addendum is to briefly summarize field activities and results of the bird survey.

The bird survey was conducted late in the Fall. Bird species had completed their nesting activities and young had left the nests. Fall migration had commenced and many species, such as Say's Phoebe, had left or were leaving the area to winter elsewhere, while others remained as year-round residents such as the Starling. The purpose of the bird survey was to identify those species presently within the Industrial Area.

All surveys and investigations followed the Ecology Standard Operating Procedures prepared by EG&G (EG&G, 1992a and 1992b).

2.0 BIRD SURVEY

The IAEE bird survey was conducted between 8:00 a.m. and 11:00 a.m. hours on three separate mornings from October 28 to November 8, 1993. The following areas were surveyed:

- East Drainage;
- North Pond and Seep;
- Northwest Drainage;
- West Railroad; and
- West Area.

Birds within each study area were identified by first traversing and then locating birds from an observation point. All birds were identified and a statement was entered into the log book to note the birds' activity when observed. Approximately 30 minutes were spent at each study area except at the North Pond and Seep and West Railroad where 10 minutes were spent in observations. Figures 1 through 5 show observation locations and traverse routes for each study area.

The weather during the survey periods was generally cool and breezy. During the first two survey periods, the sky was overcast and snow was forecast for the following day. On the last day of the survey the temperature was at 32°F but the sky was clear. The majority of birds were observed in willows and trees in the drainage. Few birds were observed flying or perched on fences or telephone wires.

A total of 14 species were observed in the five study areas combined, and these observations are summarized in Table 1. This list includes birds seen flying overhead and those using the habitat within the study area. The most abundant bird was the European Starling which generally occurred in small groups flying overhead or feeding around a trash bin in the West Area. The most diverse assemblage of birds occurred in the Northwest Drainage study area. Most of the birds were observed feeding or perched in the willows or Russian olive trees. No birds were observed in and around the West Railroad, and only two species were identified within the North Pond and Seep.

One interesting observation was that of the Brown-capped race of the Rosey Finch which spends summers at higher elevations and had moved down into the IA for the winter. This species and the Slate-colored race of the Dark-eyed Junco were abundant in the Northwest Drainage study area. Another interesting observation was that of a Ferruginous Hawk flying overhead at the Northwest Drainage. This species is a Federal Category 2 species.

3.0 REFERENCES

- DOE, 1993a. Phase I Data Summary Industrial Area Environmental Evaluation. Rocky Flats Plant. Draft. October, 1993.
- DOE, 1993b. *Industrial Area Environmental Evaluation Field Sampling Plan*. Rocky Flats Plant. October 15, 1993.
- EG&G, 1992a. *Standard Operating Procedures Manual, Volume V, Ecology, Manual No. 5-21200-OPS-EE*. Golden, Colorado. EG&G Rocky Flats, Inc. (Currently undergoing review).
- EG&G, 1992b. *Standard Operating Procedures Manual, Volume I, Field Operations, Manual No. 5-2100-OPS-FO*. Golden, Colorado. EG&G Rocky Flats, Inc. (revision 5/12/92).
- Robbins, C.S., B. Brun, and H.S. Zim. 1966. *Birds of North America*. Western Publishing Co., Inc., Golden Press, NY, p. 340.

TABLE 1
BIRD SPECIES OBSERVED IN THE INDUSTRIAL AREA
DURING A THREE DAY SURVEY -- OCTOBER 28 TO NOVEMBER 8, 1993

SPECIES	EAST DRAINAGE	NO. POND & SEEP	NORTHWEST DRAINAGE	WEST RAILROAD	WEST AREA
Raven	4	0	0	0	2
Rock Dove	2	3	3	0	0
House Finch	5	0	6	0	0
Cassin's Finch	0	0	1	0	0
Starling	9	4	0	0	20
American Robin	0	0	0	0	2
House Sparrow	2	3	0	0	0
Vesper Sparrow	0	1	8	0	3
Dark-eyed Junco (slate-colored race)	0	0	8	0	3
Rosey Finch (Brown-capped race)	0	0	3	0	0
Unknown Sparrows*	0	0	11	0	0
American Kestrel	1	0	0	0	1
Ferruginous Hawk	0	0	1	0	0
Herring Gull	1	0	1	0	0
TOTAL BIRDS	24	11	41	0	30
TOTAL SPECIES	7	4	9	0	6
SPECIES USING HABITAT AND NOT FLYING OVERHEAD	3	2	6	0	5

* These sparrows were deep into the willows and could not be identified with certainty.

FIGURES

APPENDIX A
SONG BIRD SURVEY

REVISION NO: 0

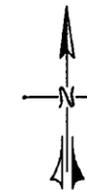
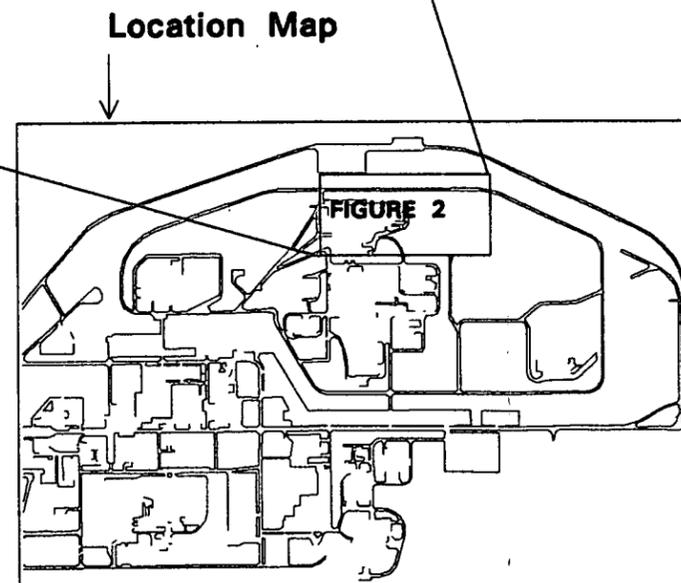
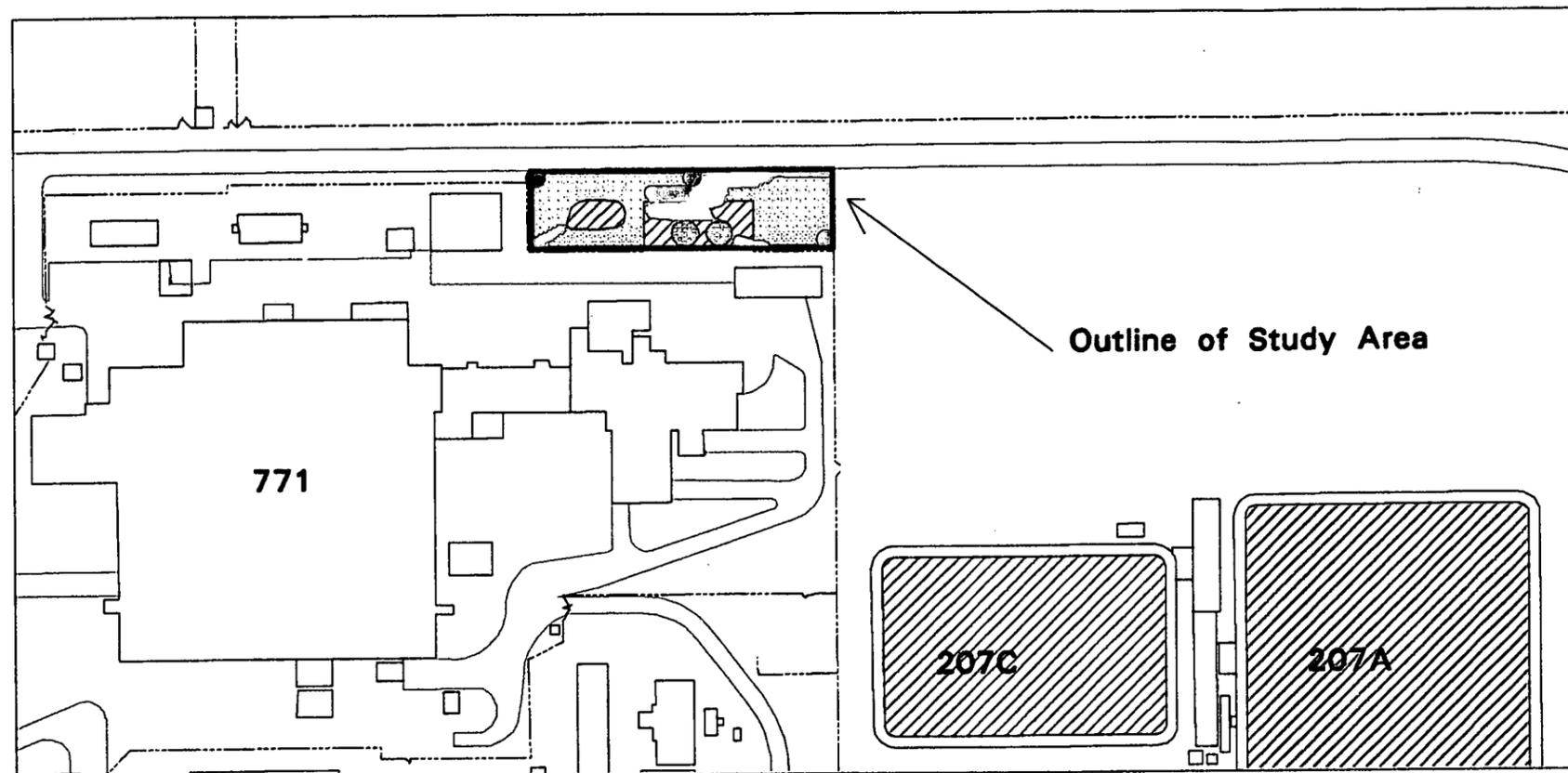
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DATE: November 11, 1993

DRAWN BY: K. Stephens

APPROVED BY: *JEF*

CHECKED BY: *WJ*



- Drainage
- ▨ Pond
- Buildings
- Fence
- Paved Road

- ▨ Tank
- Short Marsh
- Tall Marsh
- ▨ Disturbed/Reclaimed

- Outline of Study Area
- Bird Observation Points

Scale: 1 Inch = 150 feet

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FIGURE 2
 INDUSTRIAL AREA
 ENVIRONMENTAL EVALUATION
 NORTH POND AND SEEP

REVISION NO. 1

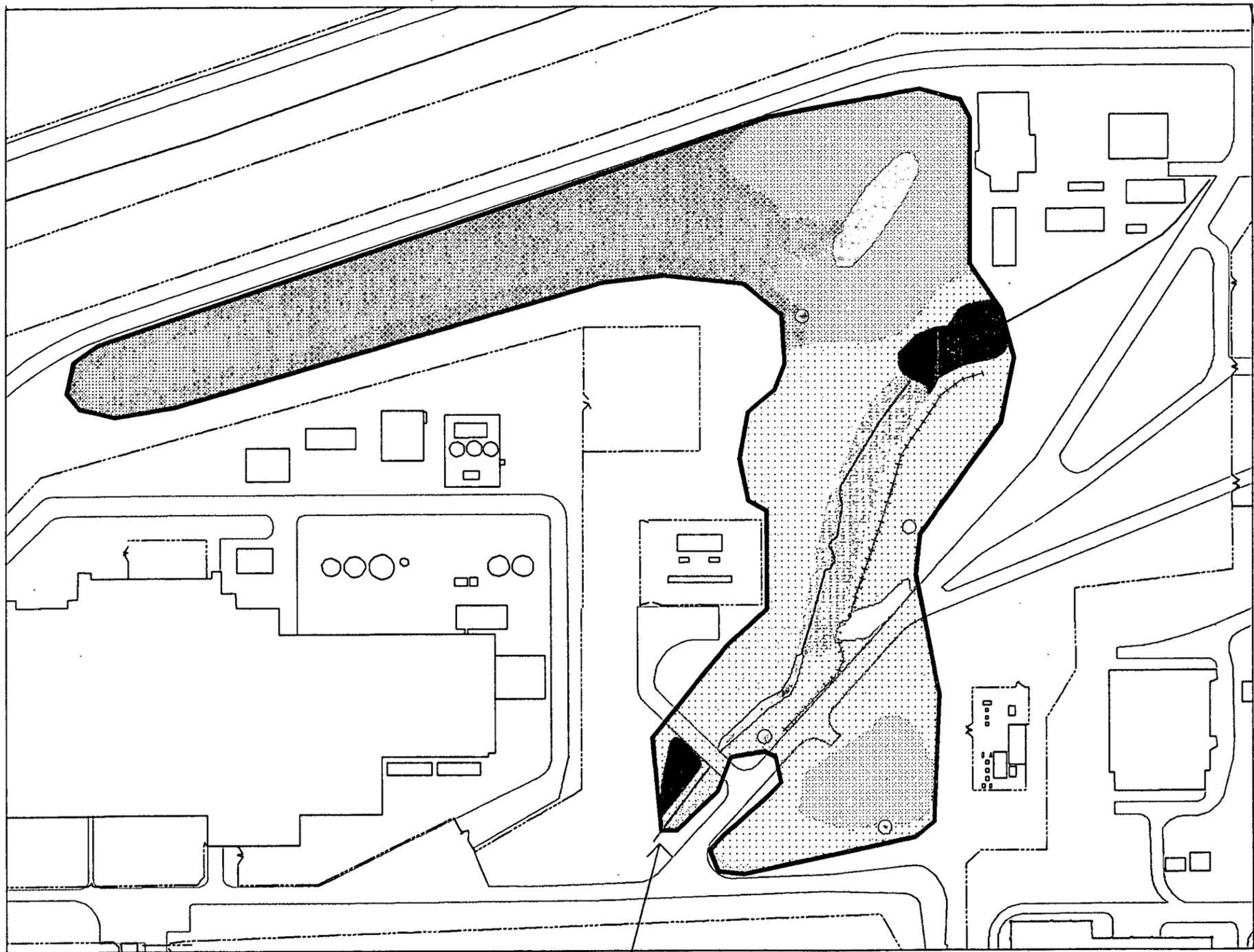
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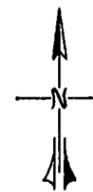
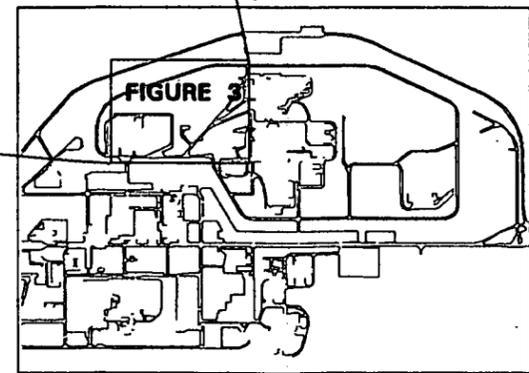
APPROVED BY: *USF*

CHECKED BY: *BR*



Outline of Study Area

Location Map



- Drainage
- Buildings
- Fence
- Paved Road
- ▨ Disturbed
- Bare
- ▨ Reclaimed Grassland
- ▨ Reclaimed/Disturbed
- ▨ Reclaimed/Mesic Grass.
- ▨ Mesic Grassland
- ▨ Short Marsh
- Tall Marsh
- Deciduous Woodland
- ▨ Riparian Shrub
- ▨ Xeric/Mesic Grass.

- Outline of Study Area
- +— Traverse Route
- Bird Observation Points

Scale: 1 inch = 150 feet

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FIGURE 3
 INDUSTRIAL AREA
 ENVIRONMENTAL EVALUATION
 NORTHWEST DRAINAGE

REVISION NO: 1

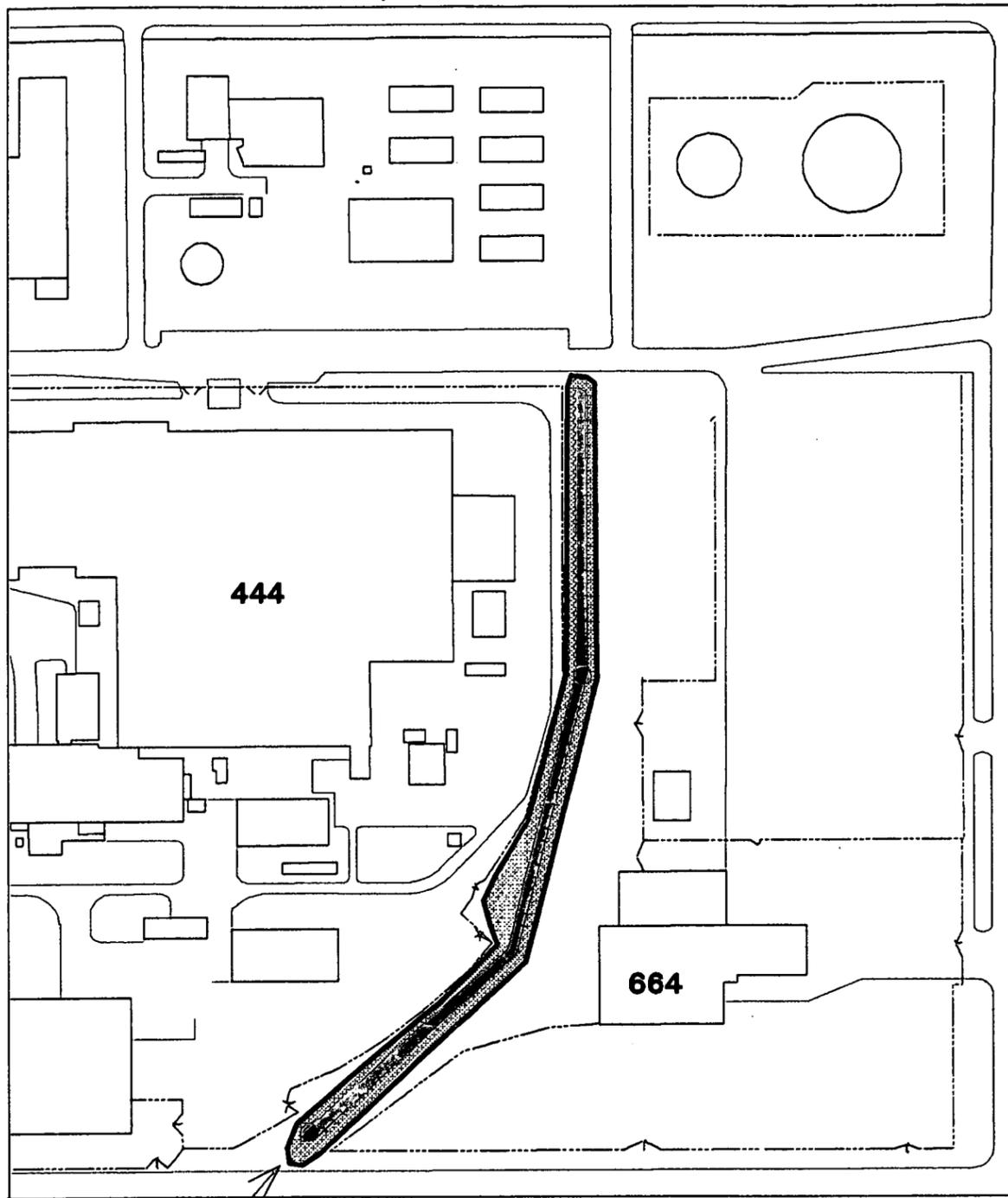
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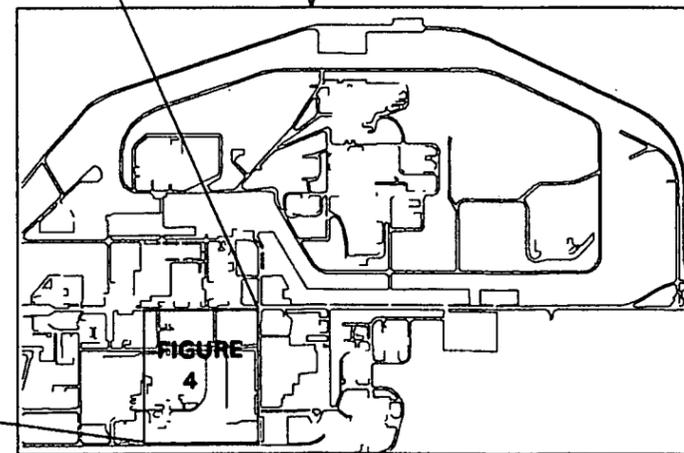
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APPROVED BY: VEF

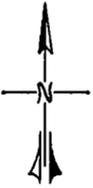
CHECKED BY: WJ



Outline of Study Area



Location Map



- Drainage
- Buildings
- Fence
- Paved Road

- Short Marsh
- ▨ Disturbed

- Outline of Study Area
- ++ Traverse Route
- Bird Observation Points

Scale: 1 Inch = 150 feet

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FIGURE 4
 INDUSTRIAL AREA
 ENVIRONMENTAL EVALUATION
 WEST RAILROAD

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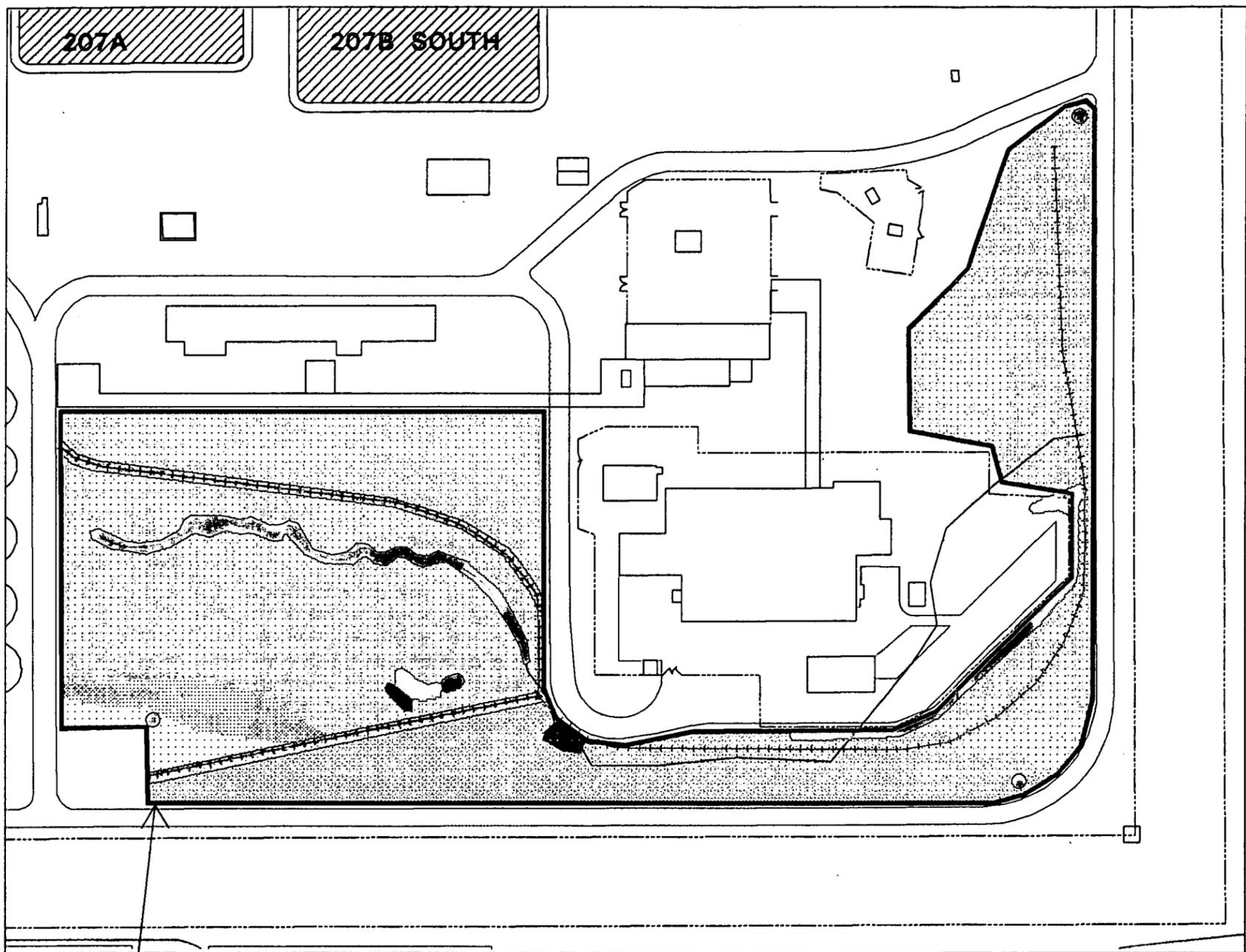
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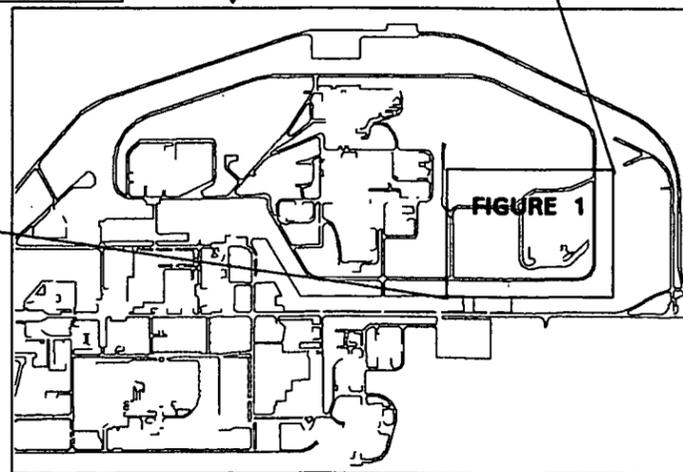
JEF

APPROVED BY:

CHECKED BY: WJ



Location Map



Outline of Study Area



- Drainage
- ▨ Pond
- Buildings
- Fence
- Paved Road
- Sidewalk
- Rock
- ▨ Reclaimed Grassland
- ▨ Short Marsh
- Tall Marsh
- ▨ Disturbed
- Bare Ground
- Deciduous Woodland
- ▨ Disturbed/Reclaimed
- Outline of Study Area
- - - Traverse Route
- Bird Observation Points

Scale: 1 Inch = 150 feet

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FIGURE 1
 INDUSTRIAL AREA
 ENVIRONMENTAL EVALUATION
 EAST DRAINAGE

REVISION NO: 1

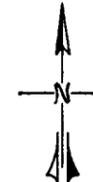
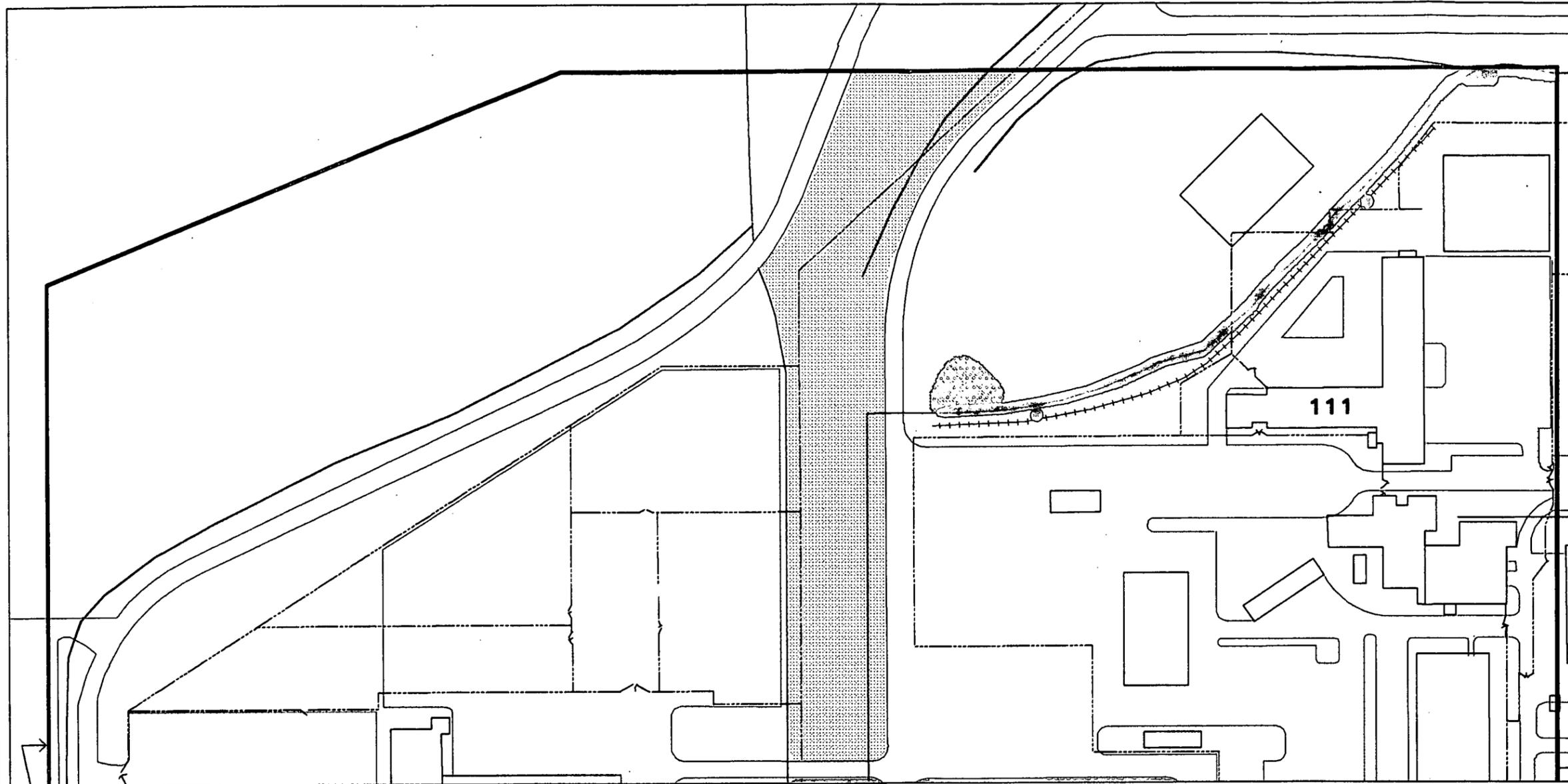
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DATE: November 11, 1993

DRAWN BY: K. Stephens

APPROVED BY: *Yff*

CHECKED BY: *WQ*



- Drainage
- Buildings
- Fence
- Paved Road

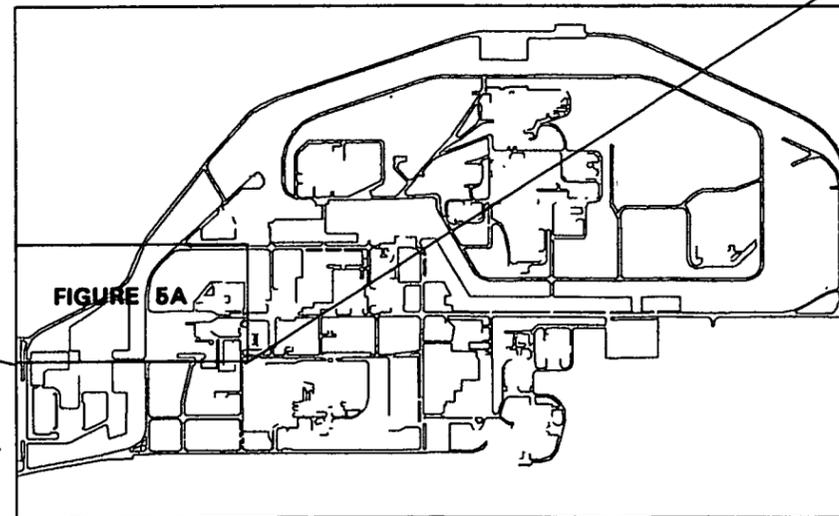
- Ornamental Trees
- ▨ Disturbed/Mesic Grass.
- ▩ Short Marsh
- Tall Marsh

- Outline of Study Area
- +— Traverse Route
- Bird Observation Points

Scale: 1 inch = 150 feet

Outline of Study Area

Location Map



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FIGURE 5A
 INDUSTRIAL AREA
 ENVIRONMENTAL EVALUATION
 WEST AREA

REVISION NO: 1

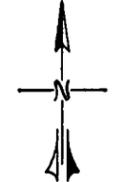
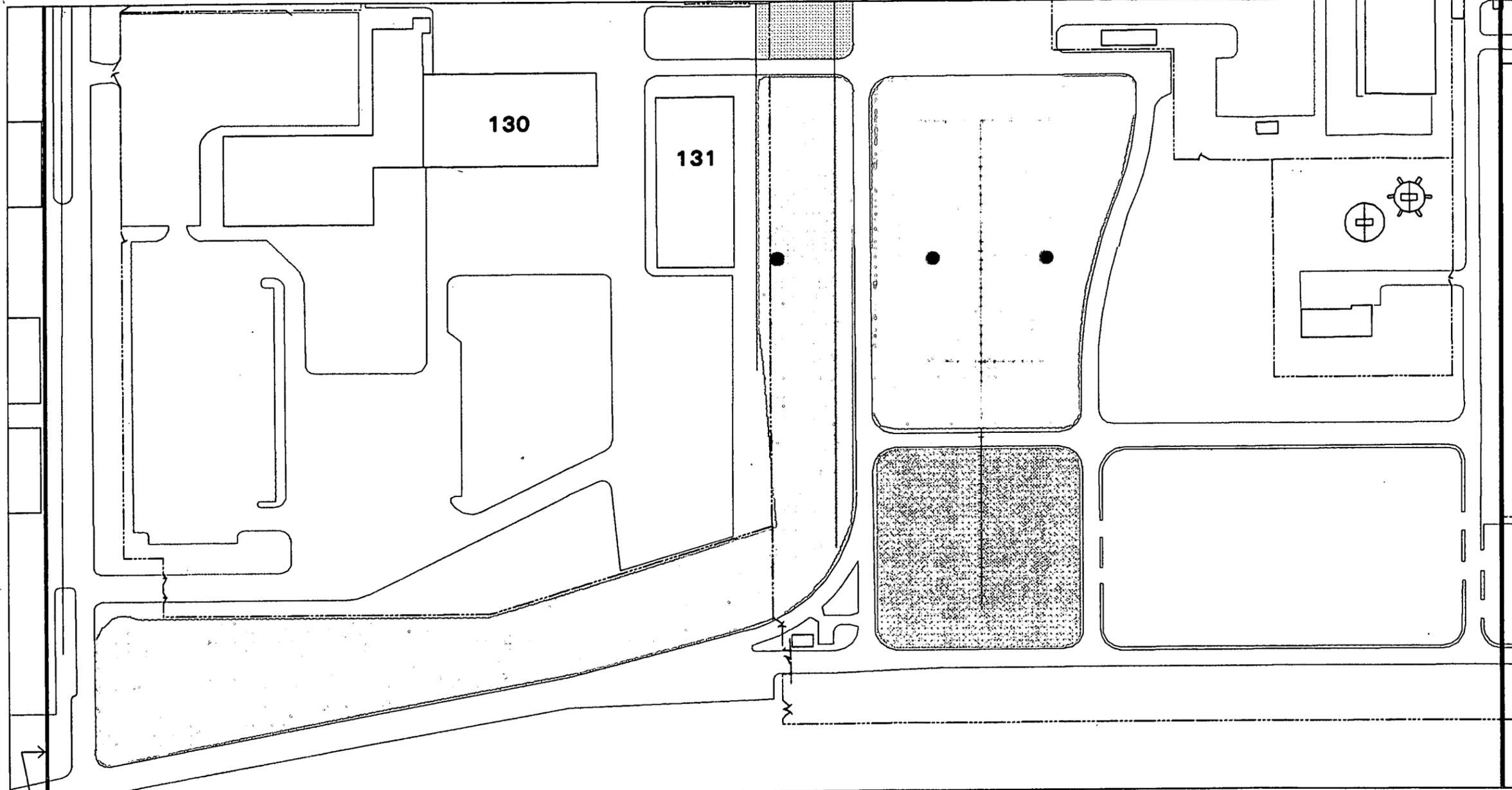
FILENAME: mb5brbird.dwg

DATE: November 11, 1993

DRAWN BY: K. Stephens

APPROVED BY: JEF

CHECKED BY: WJ



- Drainage
- Buildings
- Fence
- Paved Road

- ▨ Xeric Grassland
- Xeric/Mesic Grass.
- ▨ Disturbed/Mesic Grass.

- Outline of Study Area
- +— Traverse Route
- Bird Observation Points

Scale: 1 inch = 300 feet

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FIGURE 5B
 INDUSTRIAL AREA
 ENVIRONMENTAL EVALUATION
 WEST AREA

Outline of Study Area

Location Map

