006250

**Fluor Fernald, Inc.**
P.O. Box 538704
Cincinnati, OH 45253-8704

**FLUOR**

March 20, 2006

Fernald Closure Project
Letter No. C:CPD:2006-0032

Mr. Johnny W. Reising, Director
U. S. Department of Energy
Ohio Field Office – Fernald Closure Project
175 Tri-County Parkway
Cincinnati, Ohio 45246

Dear Mr. Reising:

**CONTRACT DE-AC24-01OH20115, TRANSMITTAL OF REVISED GRADING PLANS AND RESPONSES TO OHIO ENVIRONMENTAL PROTECTION AGENCY COMMENTS ON THE AREA 6 – FORMER PRODUCTION AREA MAIN DRAINAGE CORRIDOR FIRST AND SECOND STREETS, AND AREA 5**

References: 1) Letter, T. Schneider to J. Reising, "Comments on the Area 6 – Former Production Area (FPA) MDC First and Second Streets, and Area 5 Restoration Grading Plans," dated February 1, 2006

2) Letter, J. Reising to J. Saric and T. Schneider, "Transmittal of Area 6 – Former Production Area (FPA) MDC First and Second Streets, and Area 5 Restoration Grading Plans," dated December 14, 2005

This letter transmits revised grading plans for Area 6 – Former Production Area Main Drainage Corridor First and Second Streets and Area 5 and responses to Ohio Environmental Protection Agency (OEPA) comments are also attached. The grading plans have been revised based on the OEPA comments. Efforts have been made to further naturalize ponds and swales.

If you have any questions or comments pertaining to this letter, please contact Jyh-Dong Chiou at 738-2834 or Eric Woods at 478-1547.

Sincerely,

Cornelius M. Murphy
Closure Project Director

CMM:EW:ldt

Enclosure

c: With Enclosure
Helen E. Bilson, MS1
John Homer, MS90
Gregg Johnson, MS60
Frank Johnston, MS12
Timothy L. Jones, DOE Contracting Officer, DOE/EMCBC
Joe Desormeau, DOE-OH/FCP
Mike Stumbo, MS60
Harold Swiger, MS90
Chuck Van Arsdale, MS88
Jerry Williams, MS60
W. Eric Woods, MS90
DOE Records Center
File Record Subject - Waste Pits Area & Paddys Run NRRDP
Letter Log Copy, MS1
Project Number 20600
Administrative Record (2 copies), MS6

Without Enclosure
Christina Carr, DOE-OH/FCP
John S. Brown, DOE/EMCBC
Reinhard Friske, MS60
Uday Kumthekar, MS88
Lisa McHenry, MS90
Frank L. Miller, MS88
Dennis Nixon, MS1
M. D. Powell, MS64
Dennis Sizemore, Fluor Fernald, Inc. Prime Contract, MS1
Gary Stegner, DOE/OH

# RESPONSES TO
# OHIO ENVIRONMENTAL PROTECTION AGENCY
# COMMENTS ON THE
# AREA 6 FORMER PRODUCTION AREA MDC
# FIRST AND SECOND STREETS, AND
# AREA 5 RESTORATION GRADING PLANS

FERNALD CLOSURE PROJECT
FERNALD, OHIO

MARCH 2006

U.S. DEPARTMENT OF ENERGY

# OHIO ENVIRONMENTAL PROTECTION AGENCY
# COMMENTS ON THE AREA 6 FORMER PRODUCTION AREA MDC FIRST AND SECOND STREETS, AND AREA 5 RESTORATION GRADING PLANS

## GENERAL COMMENTS:

1. Commenting Organization: Ohio EPA Commenter: DSW
Section #: Drwg 99X-5500-G-00936 Pg #: Line #: NA Code: C
General Comment #: 1
Comment: The drawing shows what appears to be a gall bladder and bile duct. The long narrow pool bottom draining to the south could be changed so that it increases and decreases gradually in elevation. Doing so will allow the outlet to be a grass swale as gradient could be greatly reduced.
Response: This pool is designed to pond water to 3 feet in height from elevation 569 to 572 before it flows through a spillway to the south. The stem of the pond can be graded to allow a more gradual rise in the pond prior to discharge.
Action: Revise grading in stem of pond to reduce gradient.

2. Commenting Organization: Ohio EPA Commenter: DSW
Section #: Drwg 99X-5500-G-00938 Pg #: Line #: NA Code: C
General Comment #: 2
Comment: This pool (eastern side of drawing) also has very unnatural contours. The sides could be changed to have a less engineered appearance and have some irregularity to them. It is also unclear how the water will flow into and out of this pool. If the flow is to the south, it would appear as though there should be some outlet structure installed.
Response: The pool will be re-contoured to more of a teardrop shape for more natural contouring. The pool is designed as a staged discharge. When the water elevation exceeds the maximum height of 577.0, the flow discharges by spillway to feed the Second Street ditch.
Action: The pool will be re-shaped to a less engineered appearance. The spillway width will be enlarged and spillway protection added. There will be no outlet structure installed.

3. Commenting Organization: Ohio EPA Commenter: DSW
Section #: Drwg 99X-5500-G-00939 Pg #: Line #: NA Code: C
General Comment #: 3
Comment: Contours should be added to the big ditch, by making the flow path sinuous, it will look more natural and have a natural flow path. Following a 2-stage ditch design at a minimum is recommended. Also, it is not clear to which area the catch basin detail refers. It appears as though the basin in which it will be installed will not dewater and the catch basin hold water normally. If that is true, the basin to which this will pertain should show the high water level.
Response: The ditch west of Area 5 can be re-contoured with a sinuous path. This ditch will flow into an existing 60" culvert to the SSOD area. This ditch is already designed with 2 stages. The ponds north of this ditch do not feed to this ditch until the elevation exceeds 563.0.

The catch basin is shown on the plan view at the low point of Area 5. This catch basin is designed to pond water in Area 5 to approximately 1.2 feet in height before it flows through the windows of the catch basin. A second stage on the catch basin allows additional flow to discharge when the pond elevation reaches an approximate 2.2 foot height.
Action: The ditch west of Area 5 will be re-contoured with a sinuous path. A normal pond elevation will be shown on the drawings near the catch basin.

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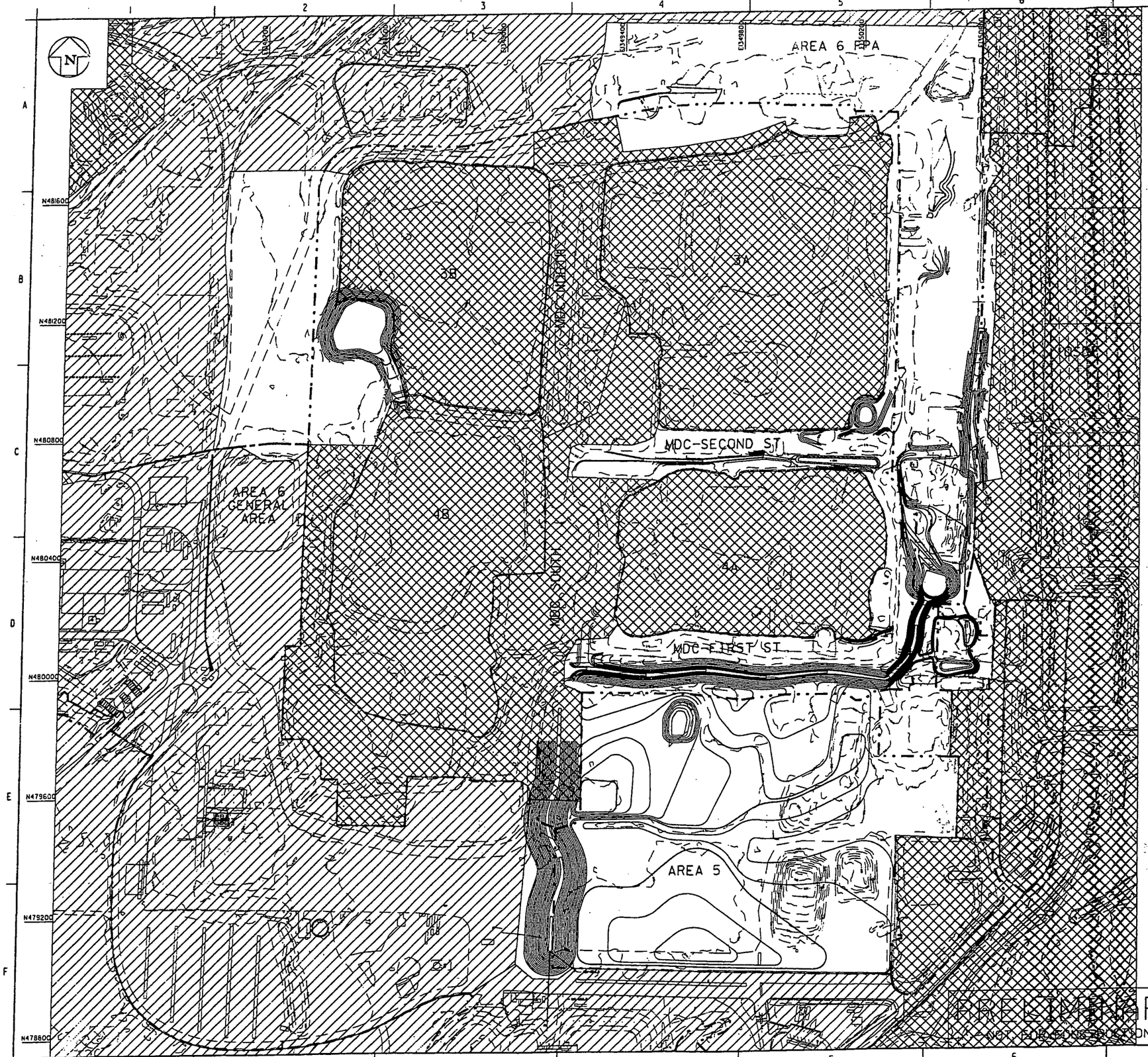


## GENERAL NOTES

1. THIS DRAWING DEPICTS AN OVERALL VIEW OF AREA 6 FORMER PRODUCTION AREA (FPA), FIRST STREET, SECOND STREET, AND AREA 5. DETAILS FOR GRADING, CERTIFICATION BOUNDARIES, PLANTING AND SOIL AMENDMENT ARE PROVIDED ON SHEETS G-2 THRU G-9.
2. EXISTING TOPOGRAPHY TAKEN FROM CURRENT LIDAR SURVEY PERFORMED ON JANUARY 07, 2006.
3. HORIZONTAL CONTROL SHOWN ON DRAWING IS BASED UPON NORTH AMERICAN DATUM 1983 (NAD 83).
4. VERTICAL CONTROL SHOWN ON DRAWING IS BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 1929).

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## LEGEND

- RESTORATION AREAS INCLUDED IN THIS PACKAGE
- RESTORATION AREA DESIGNS COMPLETED
- RESTORATION AREA DESIGNS TO BE SUBMITTED OR FIELD FIT

## CONSTRUCTION DRAWING INDEX

| DRAWING NO. | DRAWING TITLE | SHEET NO. |
|---|---|---|
| 99X-5500-G-00935 | OVERALL RESTORATION GRADING PLAN | G-1 |
| 99X-5500-G-00936 | RESTORATION GRADING PLAN SHEET 1 OF 4 | G-2 |
| 99X-5500-G-00937 | RESTORATION GRADING PLAN SHEET 2 OF 4 | G-3 |
| 99X-5500-G-00938 | RESTORATION GRADING PLAN SHEET 3 OF 4 | G-4 |
| 99X-5500-G-00939 | RESTORATION GRADING PLAN SHEET 4 OF 4 | G-5 |
| 99X-5500-G-00940 | SOIL AMENDMENT PLAN SHEET 1 OF 4 | G-6 |
| 99X-5500-G-00941 | SOIL AMENDMENT PLAN SHEET 2 OF 4 | G-7 |
| 99X-5500-G-00942 | SOIL AMENDMENT PLAN SHEET 3 OF 4 | G-8 |
| 99X-5500-G-00943 | SOIL AMENDMENT PLAN SHEET 4 OF 4 | G-9 |
| 99X-5500-G-00957 | RESTORATION GRADING CONTROL POINTS | G-10 |

SCALE: 1" = 120'

0 60 120 300 600

SCALE IN FEET

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 12/12/05 | | |

INITIALS AND DATE

**UNITED STATES DEPARTMENT OF ENERGY**
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY

**FLUOR FERNALD, INC.**

PROJECT NAME

SOIL REMEDIATION

DRAWING TITLE

AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
OVERALL RESTORATION GRADING PLAN

APPROVALS

| | | | |
|---|---|---|---|
| COGNIZANT ENG. | | SAFETY ENG. | |
| CIVIL & STR. | | MAINTENANCE | |
| ELECTRICAL | | FIRE PROTECT. | |
| ENGINEER | | WASTE MANAGE | |
| INSTRUMENT | | SECURITY | |
| MECHANICAL | | QA | |
| RESTORATION | | CONSTRUCTION | |
| CHECKED | | | |
| APPROVED | | | |

PRELIMINARY
NOT FOR CONSTRUCTION

| DRAWN BY | PROJECT NO. | DRAWING INDEX CODE NO. | SHEET NO. | REV. NO. |
|---|---|---|---|---|
| A.L. RABBITT | 20600 | 99X-5500-G-00935 | G-1 | B |
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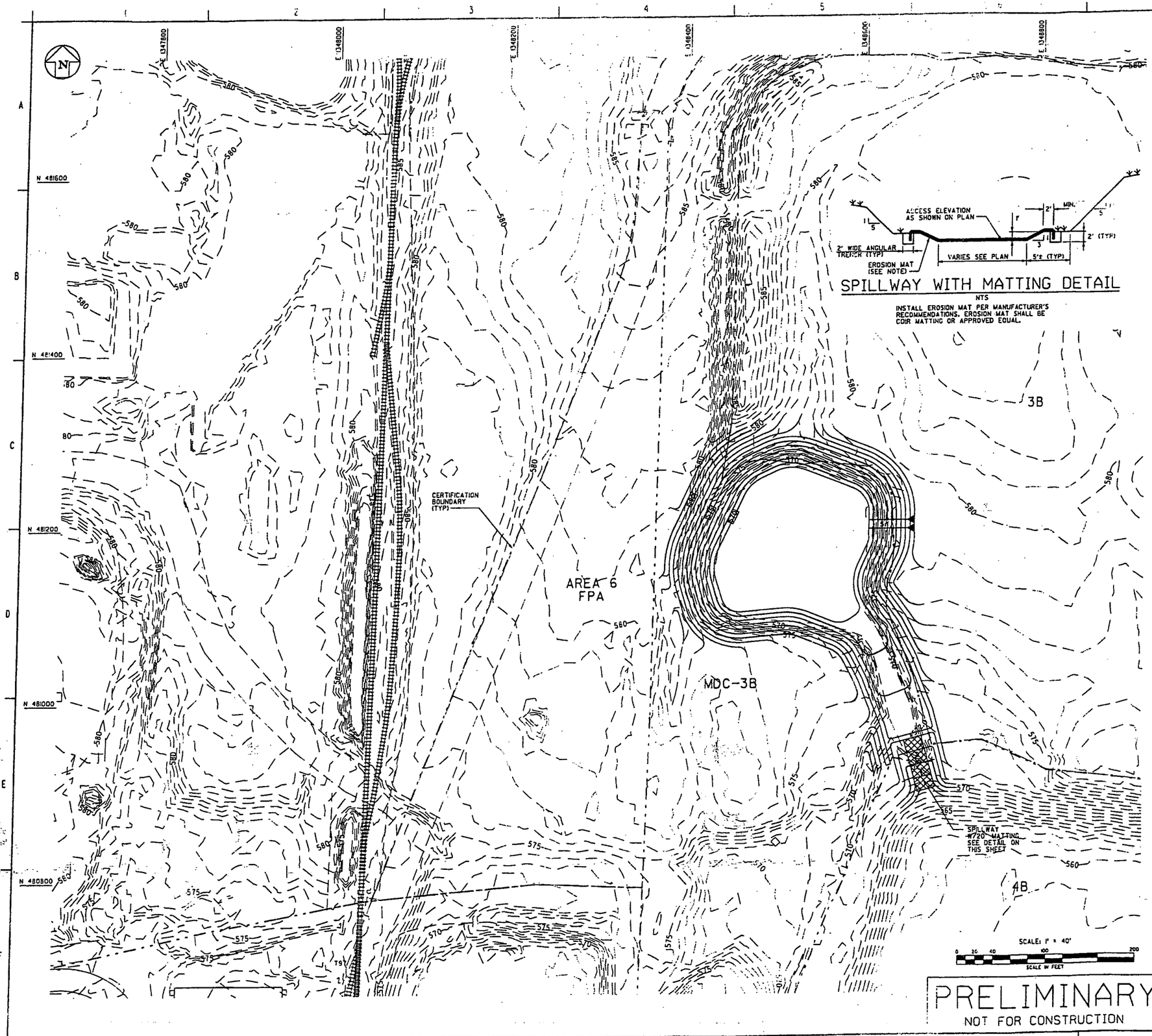


PRELIMINARY
NOT FOR CONSTRUCTION

## GENERAL NOTES

1. EXISTING TOPOGRAPHY TAKEN FROM CURRENT LIDAR SURVEY PERFORMED ON JANUARY 07, 2006.
2. HORIZONTAL CONTROL SHOWN ON DRAWING IS BASED UPON NORTH AMERICAN DATUM 1983 (NAD 83).
3. VERTICAL CONTROL SHOWN ON DRAWING IS BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 1929).
4. CONSTRUCTION MANAGER SHALL VERIFY EXISTING TOPOGRAPHY CONDITIONS PRIOR TO CONSTRUCTION.
5. EXCAVATE DEPRESSIONS, RESTORATION DITCHES, AND PONDS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02200. COMPACT BERMS AND EMBANKMENT FILL TO 90 PERCENT OF STANDARD PROCTOR, MAXIMUM DRY DENSITY.
6. FOR GRADING CONTROL POINT COORDINATES SEE DRAWING 99X-5500-G-00957.

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## LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- RR TRACKS
- FENCE
- EROSION MATTING
- CERTIFICATION BOUNDARY
- FLOW DIRECTION

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 12/12/05 | | |

INITIALS AND DATE

**UNITED STATES DEPARTMENT OF ENERGY**
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY
**FLUOR FERNALD, INC.**

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
RESTORATION GRADING PLAN
SHEET 1 OF 4

APPROVALS

| | | | |
|---|---|---|---|
| COGNIZANT ENG. | | SAFETY ENG. | |
| CIVIL & STR. | | MAINTENANCE | |
| ELECTRICAL | | FIRE PROTECT. | |
| ENGINEER | | WASTE MANAGE | |
| INSTRUMENT | | SECURITY | |
| MECHANICAL | | QA | |
| RESTORATION | | CONSTRUCTION | |
| CHECKED | | | |
| APPROVED | | | |

| DRAWN BY | PROJECT NO. | DRAWING INDEX CODE NO. | SHEET NO. | REV. NO. |
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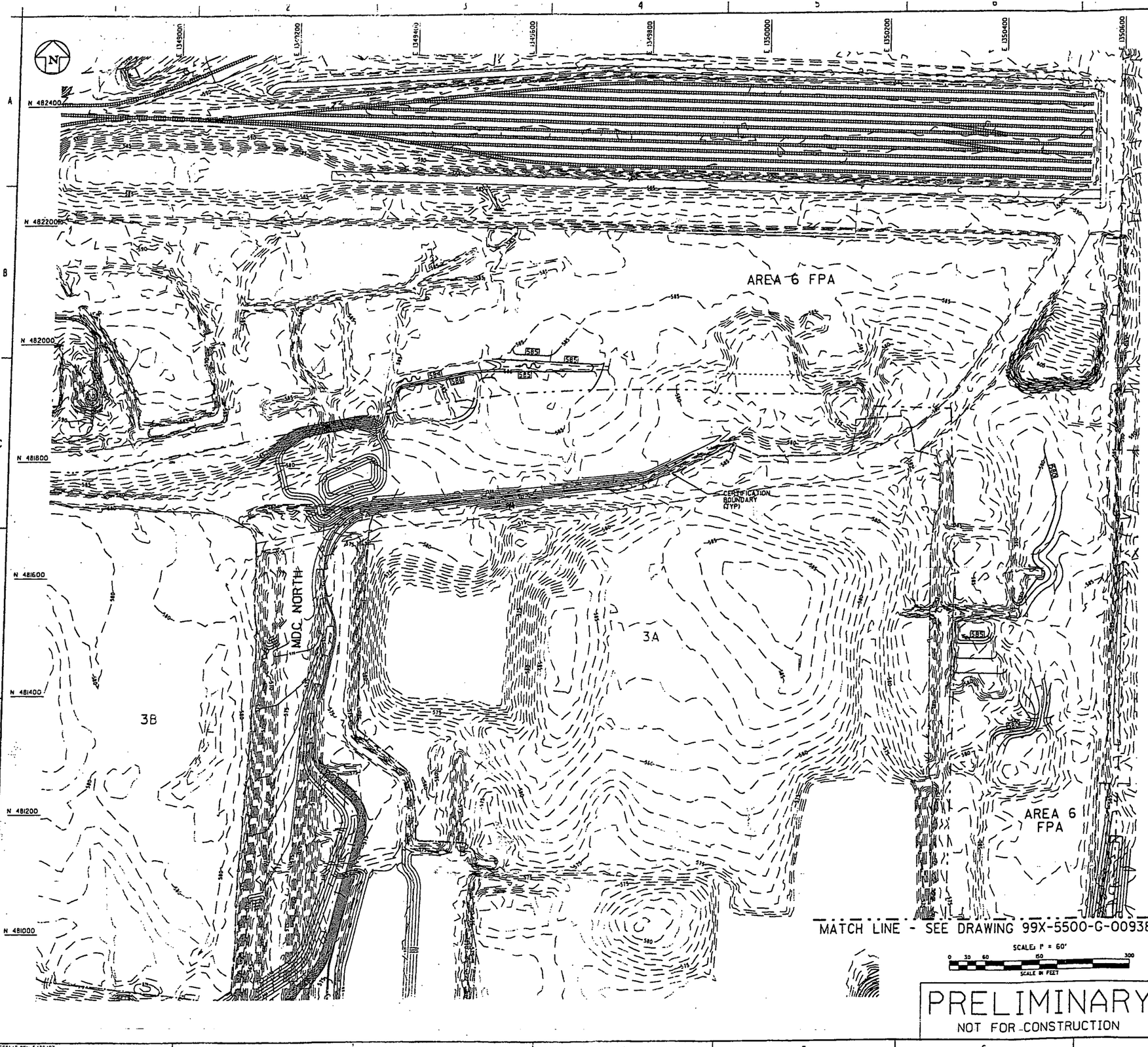


PRELIMINARY
NOT FOR CONSTRUCTION

## GENERAL NOTES

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6. FOR GRADING CONTROL POINT COORDINATES SEE DRAWING 99X-5500-G-00957.

006250

## LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- RR TRACKS
- FENCE
- EROSION MATTING
- CERTIFICATION BOUNDARY
- FLOW DIRECTION

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 12/12/05 | | |

INITIALS AND DATE

UNITED STATES
DEPARTMENT OF ENERGY
FERNALD CLOSURE PROJECT

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FLUOR FERNALD, INC.

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
RESTORATION GRADING PLAN
SHEET 2 OF 4

APPROVALS

| | | | |
|---|---|---|---|
| COGNIZANT ENG. | | SAFETY ENG. | |
| CIVIL & STR. | | MAINTENANCE | |
| ELECTRICAL | | FIRE PROTECT. | |
| ENGINEER | | WASTE MANAGE. | |
| INSTRUMENT | | SECURITY | |
| MECHANICAL | | QA | |
| RESTORATION | | CONSTRUCTION | |
| CHECKED | | | |
| APPROVED | | | |

| DRAWN BY | PROJECT NO. | DRAWING INDEX CODE NO. | SHEET NO. | REV. NO. |
|---|---|---|---|---|
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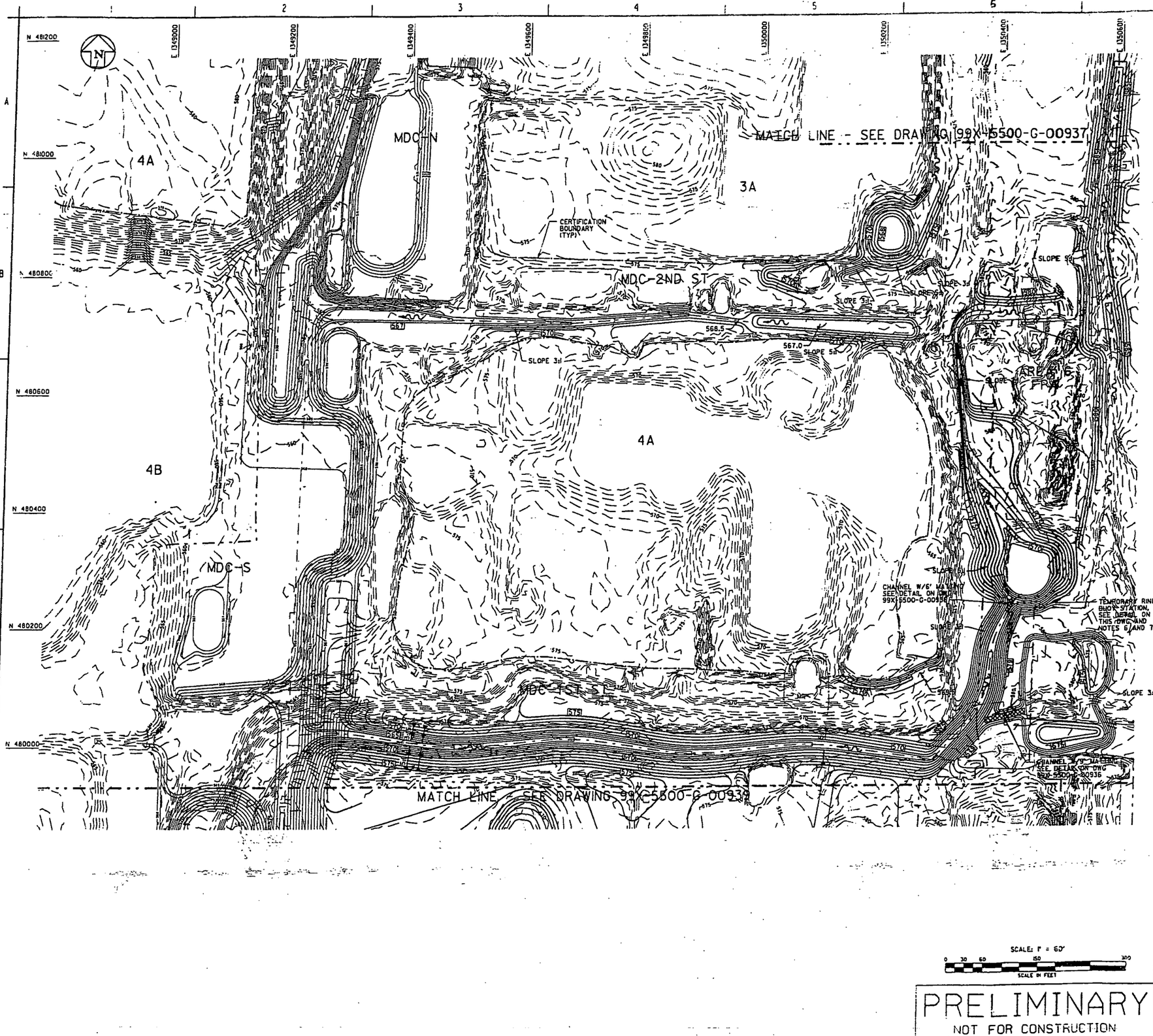


PRELIMINARY
NOT FOR CONSTRUCTION

## GENERAL NOTES

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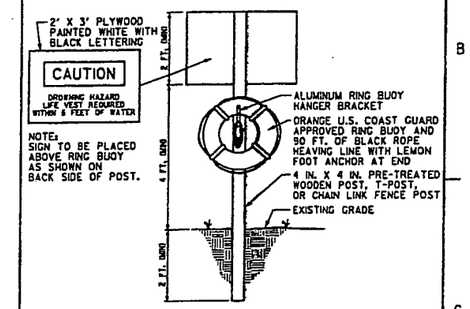
6. RING BUOYS WITH AT LEAST 90 FEET OF LINE SHALL BE PROVIDED DURING CONSTRUCTION AND READILY AVAILABLE FOR EMERGENCY RESCUE OPERATIONS. DISTANCE BETWEEN RING BUOYS SHALL NOT EXCEED 200 FEET.
7. RING BUOYS WILL BE REMOVED WHEN RESTORATION CONSTRUCTION IS COMPLETE.




TEMPORARY TYPICAL RING BUOY STATION DETAIL
NOT TO SCALE

## LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- FENCE
- EROSION MATTING
- CERTIFICATION BOUNDARY
- FLOW DIRECTION

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 12/12/05 | | |

INITIALS AND DATE

**UNITED STATES DEPARTMENT OF ENERGY**
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY
**FLUOR FERNALD, INC.**

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
RESTORATION GRADING PLAN
SHEET 3 OF 4

APPROVALS

| | | | |
|---|---|---|---|
| COGNIZANT ENG. | | SAFETY ENG. | |
| CIVIL & STR. | | MAINTENANCE | |
| ELECTRICAL | | FIRE PROTECT. | |
| ENGINEER | | WASTE MANAGE | |
| INSTRUMENT | | SECURITY | |
| MECHANICAL | | QA | |
| RESTORATION | | CONSTRUCTION | |
| CHECKED | | | |
| APPROVED | | | |

| DRAWN BY | PROJECT NO. | DRAWING INDEX CODE NO. | SHEET NO. | REV. NO. |
|---|---|---|---|---|
| G.L. RABBITT | 20600 | 99X-5500-G-00938 | G-4 | B |
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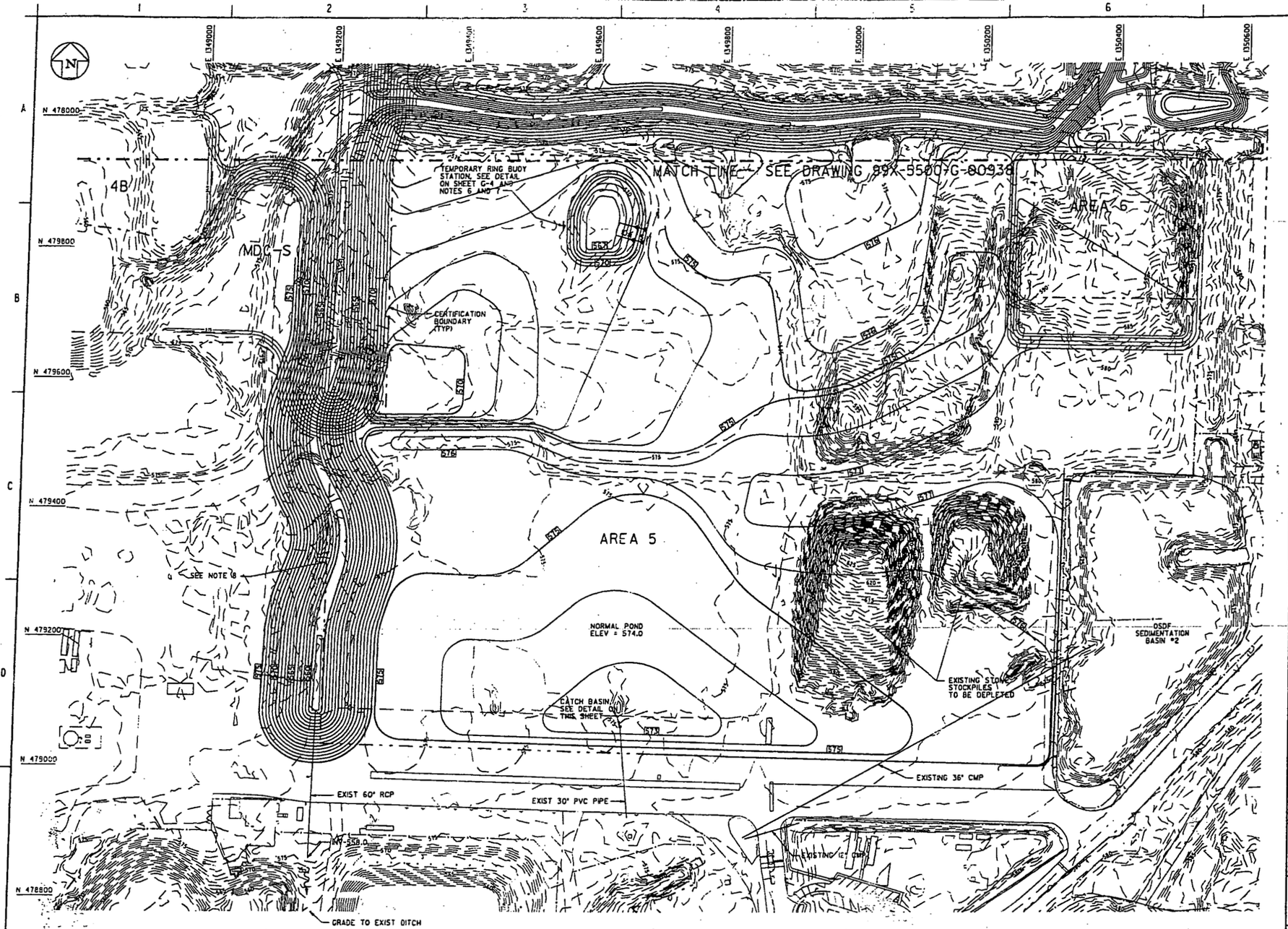


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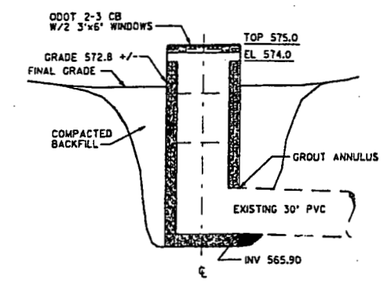
6. RING BUOYS WITH AT LEAST 90 FEET OF LINE SHALL BE PROVIDED DURING CONSTRUCTION AND READILY AVAILABLE FOR EMERGENCY RESCUE OPERATIONS. DISTANCE BETWEEN RING BUOYS SHALL NOT EXCEED 200 FEET.
7. RING BUOYS WILL BE REMOVED WHEN RESTORATION CONSTRUCTION IS COMPLETE.
8. RIP-RAP OR CLEAN CONCRETE DEBRIS MAY BE USED AS EROSION PROTECTION ALONG THE CHANNEL.




## CATCH BASIN DETAIL

NTS

## LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- FENCE
- EROSION MATTING
- CERTIFICATION BOUNDARY

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 12/12/05 | | |

DATUALS AND DATE

**UNITED STATES DEPARTMENT OF ENERGY**
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY

**FLUOR FERNALD, INC.**

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
RESTORATION GRADING PLAN
SHEET 4 OF 4

APPROVALS

| | | | | | |
|---|---|---|---|---|---|
| COGNIZANT ENG. | | | SAFETY ENG. | | |
| CIVIL & STR. | | | MAINTENANCE | | |
| ELECTRICAL | | | FIRE PROTECT. | | |
| ENGINEER | | | WASTE MANAGE. | | |
| INSTRUMENT | | | SECURITY | | |
| MECHANICAL | | | QA | | |
| RESTORATION | | | CONSTRUCTION | | |
| CHECKED | | | | | |
| APPROVED | | | | | |

SCALE: 1" = 60'
0 30 60 150 300
SCALE IN FEET

PRELIMINARY
NOT FOR CONSTRUCTION

| DRAWN BY | PROJECT NO. | DRAWING INDEX CODE NO. | SHEET NO. | REV. NO. |
|---|---|---|---|---|
| K.L. RABBITT | 20600 | 99X-5500-G-00939 | G-5 | B |
| RES PROJECT NO. | FILENAME 99x00939.dgn | | | |

FCPSAE.DGN 5/30/03

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PRELIMINARY
NOT FOR CONSTRUCTION

## GENERAL NOTES

1. NO AMENDMENT IN PONDS BELOW SPILLWAY WATER LEVELS
2. SURFACE APPLICATION ONLY IN WETLANDS.
3. BERMS AND PERIMETER REQUIRE FULL AMENDMENT IF TOPSOIL IS NOT PRESENT.

## LEGEND

N.A. - NO AMENDMENT
TOTAL ACREAGE = 0.9 ACRES

S.A. - SOIL AMENDMENT REQUIRED
TOTAL ACREAGE = 9.7 ACRES

CERTIFICATION BOUNDARY

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 8/12/05 | | |

INITIALS AND DATE

**UNITED STATES DEPARTMENT OF ENERGY**
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY
**FLUOR FERNALD, INC.**

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
SOIL AMENDMENT PLAN
SHEET 1 OF 4

APPROVALS

| | | | |
|---|---|---|---|
| COGNIZANT ENG. | | SAFETY ENG. | |
| CIVIL & STR. | | MAINTENANCE | |
| ELECTRICAL | | FIRE PROTECT. | |
| ENGINEER | | WASTE MANAGE | |
| INSTRUMENT | | SECURITY | |
| MECHANICAL | | QA | |
| RESTORATION | | CONSTRUCTION | |
| CHECKED | | | |
| APPROVED | | | |

| DRAWN BY | PROJECT NO. | DRAWING INDEX CODE NO. | SHEET NO. | REV. NO. |
|---|---|---|---|---|
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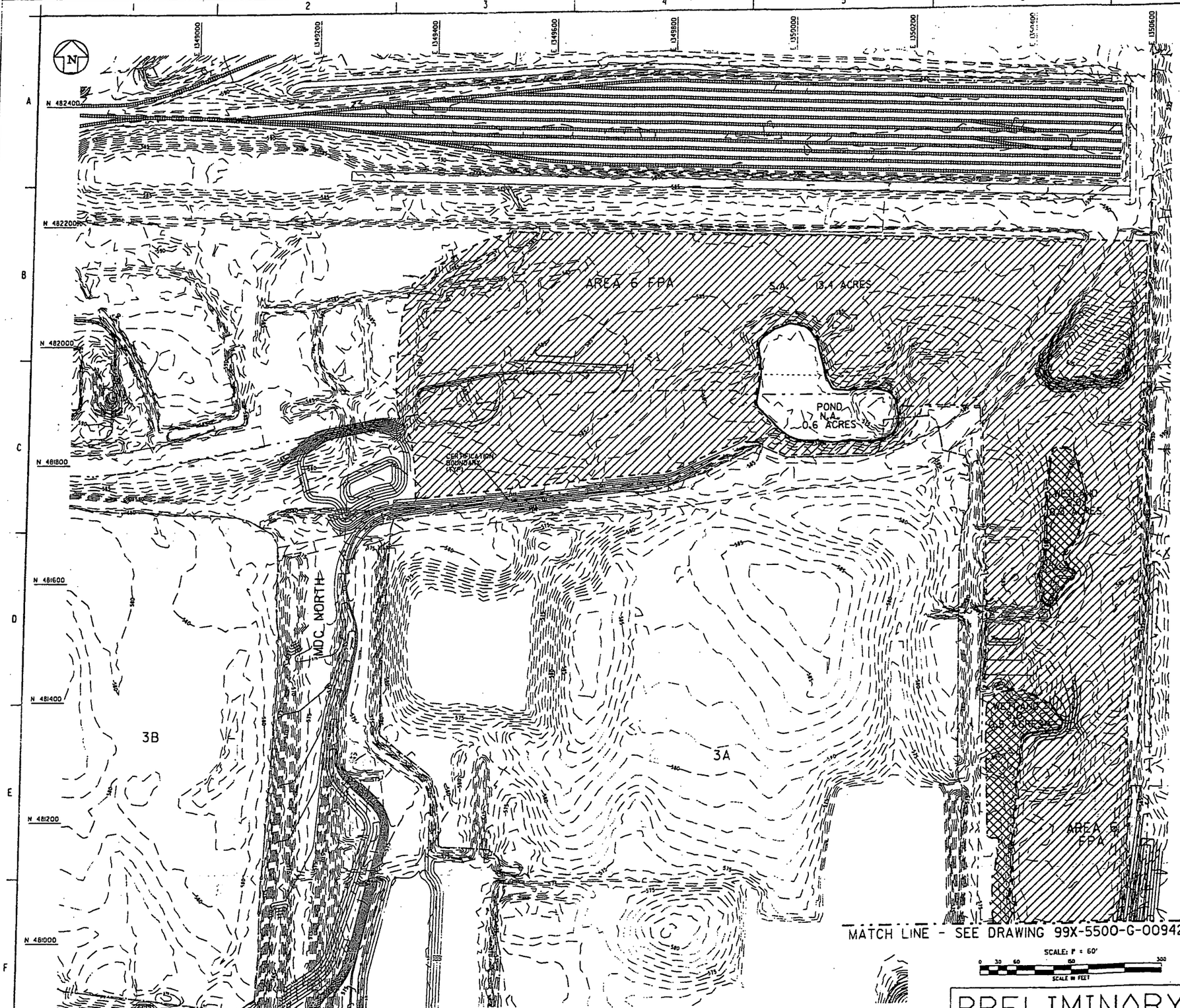



PRELIMINARY
NOT FOR CONSTRUCTION

## GENERAL NOTES

1. NO AMENDMENT IN PONDS BELOW SPILLWAY WATER LEVELS.
2. SURFACE APPLICATION ONLY IN WETLANDS.
3. BERMS AND PERIMETER REQUIRE FULL AMENDMENT IF TOPSOIL IS NOT PRESENT.

## LEGEND

- N.A. - NO AMENDMENT TOTAL ACREAGE = 0.6 ACRES
- S.O. - SURFACE APPLICATION ONLY TOTAL ACREAGE = 0.8 ACRES
- S.A. - SOIL AMENDMENT REQUIRED TOTAL ACREAGE = 13.4 ACRES
- CERTIFICATION BOUNDARY

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 12/12/05 | | |

INITIALS AND DATE

**UNITED STATES DEPARTMENT OF ENERGY**
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY
**FLUOR FERNALD, INC.**

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
SOIL AMENDMENT PLAN
SHEET 2 OF 4

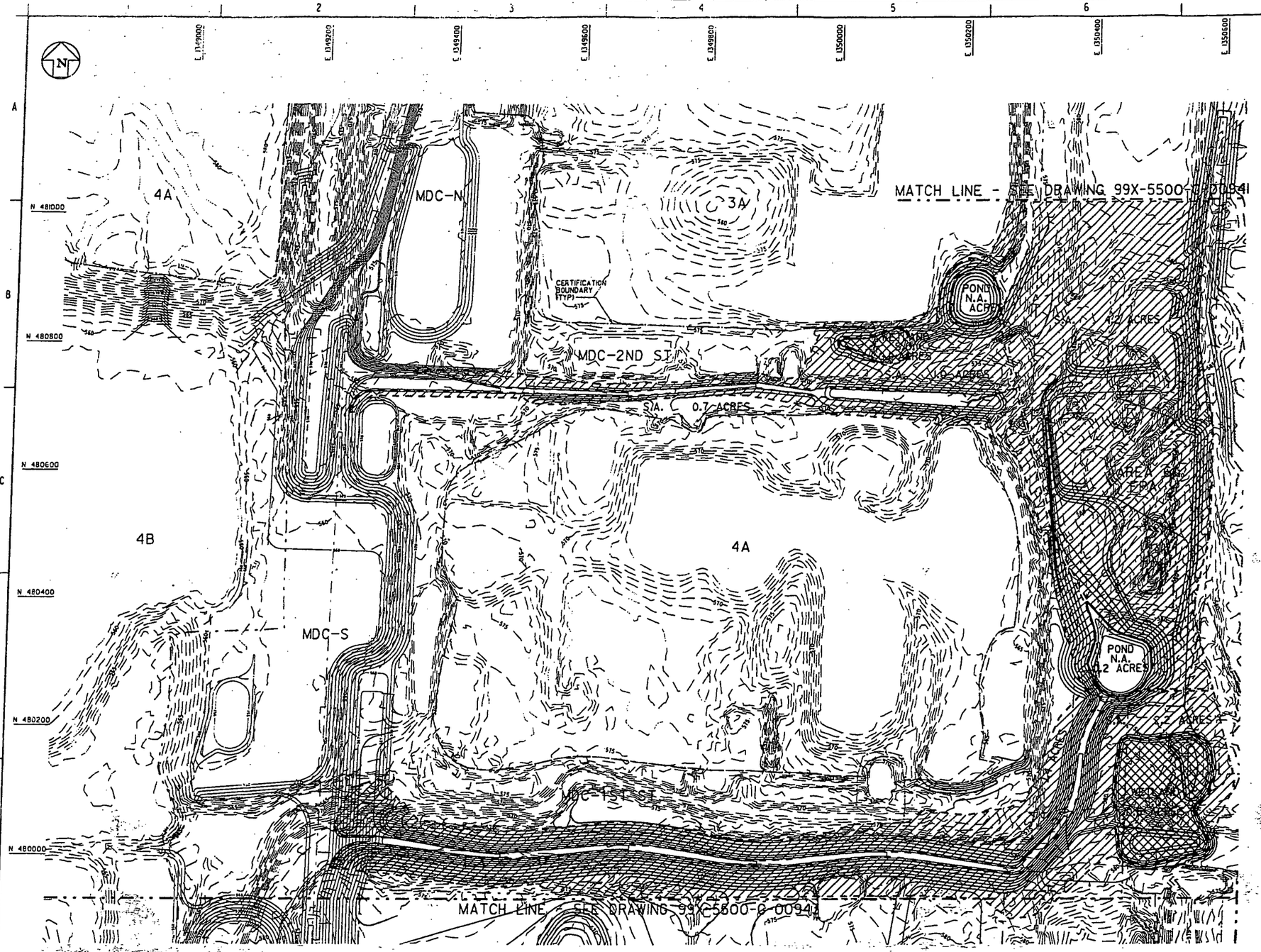
APPROVALS

| | | | |
|---|---|---|---|
| COGNIZANT ENG. | | SAFETY ENG. | |
| CIVIL & STR. | | MAINTENANCE | |
| ELECTRICAL | | FIRE PROTECT. | |
| ENGINEER | | WASTE MANAGE | |
| INSTRUMENT | | SECURITY | |
| MECHANICAL | | QA | |
| RESTORATION | | CONSTRUCTION | |
| CHECKED | | | |
| APPROVED | | | |

| DRAWN BY | PROJECT NO. | DRAWING MDCS CODE NO. | SHEET NO. | REV. NO. |
|---|---|---|---|---|
| K.L. RABBITT | 20600 | 99X-5500-G-00941 | G-7 | B |
| RES PROJECT NO. | FILENAME 99xg0941.dgn | | | |

006250

19xg0942 OSDF3 lind8392 03/16/2006 12:45:23 PM




## GENERAL NOTES

1. NO AMENDMENT IN PONDS BELOW SPILLWAY WATER LEVELS.
2. SURFACE APPLICATION ONLY IN WETLANDS.
3. BERMS AND PERIMETER REQUIRE FULL AMENDMENT IF TOPSOIL IS NOT PRESENT.

## LEGEND

- N.A. - NO AMENDMENT TOTAL ACREAGE = 0.3 ACRES
- S.O. - SURFACE APPLICATION ONLY TOTAL ACREAGE = 0.7 ACRES
- S.A. - SOIL AMENDMENT REQUIRED TOTAL ACREAGE = 9.5 ACRES
- CERTIFICATION BOUNDARY

SCALE: 1" = 60'

0 30 60 60 100

SCALE IN FEET

PRELIMINARY

NOT FOR CONSTRUCTION

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 12/12/05 | | |

INITIALS AND DATE

**UNITED STATES DEPARTMENT OF ENERGY**

FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY

**FLUOR FERNALD, INC.**

PROJECT NAME

SOIL REMEDIATION

DRAWING TITLE

AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5

SOIL AMENDMENT PLAN

SHEET 3 OF 4

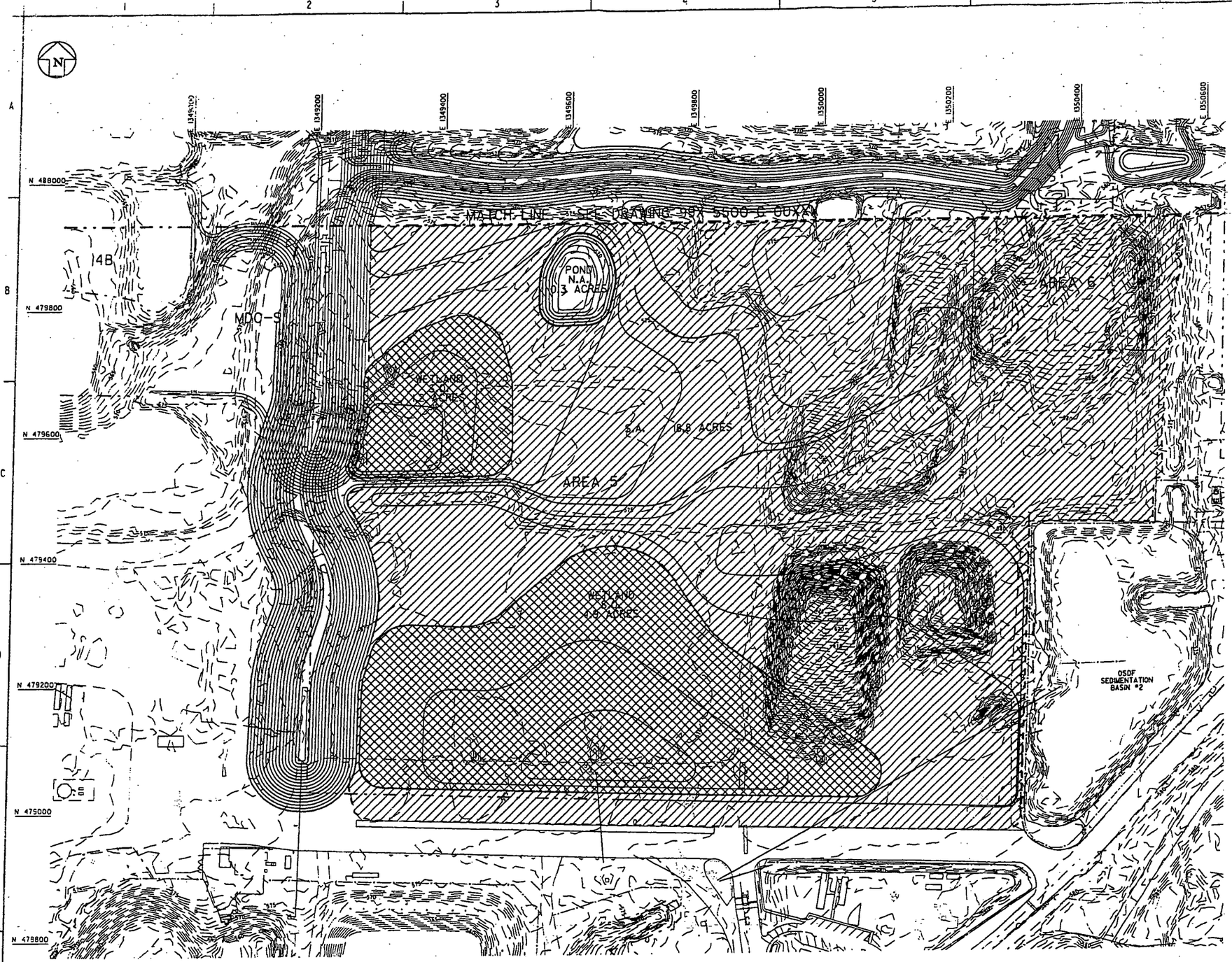
APPROVALS

| | | | |
|---|---|---|---|
| COGNIZANT ENG. | | SAFETY ENG. | |
| CIVIL & STR. | | MAINTENANCE | |
| ELECTRICAL | | FIRE PROTECT. | |
| ENGINEER | | WASTE MANAGE | |
| INSTRUMENT | | SECURITY | |
| MECHANICAL | | QA | |
| RESTORATION | | CONSTRUCTION | |
| CHECKED | | | |
| APPROVED | | | |

| DRAWN BY | PROJECT NO. | DRAWING INDEX CODE NO. | SHEET NO. | REV. NO. |
|---|---|---|---|---|
| A.L. RABBITT | 206.00 | 99X-5500-G-00942 | G-8 | B |
| AES PROJECT NO. | FILENAME 99xg0942.dgn | | | |

006250

99xg0943 OSDF3 lind8392 03/16/2006 12:58:11 PM




SCALE: 1" = 60'

0 30 60 150 300

SCALE IN FEET

PRELIMINARY

NOT FOR CONSTRUCTION

## GENERAL NOTES

1. NO AMENDMENT IN PONDS BELOW SPILLWAY WATER LEVELS.
2. SURFACE APPLICATION ONLY IN WETLANDS.
3. BERMS AND PERIMETER REQUIRE FULL AMENDMENT IF TOPSOIL IS NOT PRESENT.

006250

## LEGEND

N.A. - NO AMENDMENT
TOTAL ACREAGE = 0.3 ACRES

S.C. - SURFACE APPLICATION ONLY
TOTAL ACREAGE = 6.0 ACRES

S.A. - SOIL AMENDMENT REQUIRED
TOTAL ACREAGE = 18.8 ACRES

CERTIFICATION BOUNDARY

| REV. NO. | ISSUE OR REVISION PURPOSE - DESCRIPTION | DATE | REV. BY | APPR. |
|---|---|---|---|---|
| B | RE-ISSUED FOR AGENCY REVIEW | 3/16/06 | | |
| A | ISSUED FOR AGENCY REVIEW | 12/12/05 | | |

- INITIALS AND DATE

UNITED STATES
DEPARTMENT OF ENERGY
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY

FLUOR FERNALD, INC.

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
SOIL AMENDMENT PLAN
SHEET 4 OF 4

APPROVALS

| | | | |
|---|---|---|---|
| COGNIZANT ENG. | | SAFETY ENG. | |
| CIVIL & STR. | | MAINTENANCE | |
| ELECTRICAL | | FIRE PROTECT. | |
| ENGINEER | | WASTE MANAGE | |
| INSTRUMENT | | SECURITY | |
| MECHANICAL | | QA | |
| RESTORATION | | CONSTRUCTION | |
| CHECKED | | | |
| APPROVED | | | |

| DRAWN BY | PROJECT NO. | DRAWING INDEX CODE NO. | SHEET NO. | REV. NO. |
|---|---|---|---|---|
| K.L. RABBITT | 20600 | 99X-5500-G-00943 | G-9 | B |
| RES PROJECT NO. | FILENAME 99xg0943.dgn | | | |