Note: Site boundaries on this figure are approximate and do not constitute an official survey product.

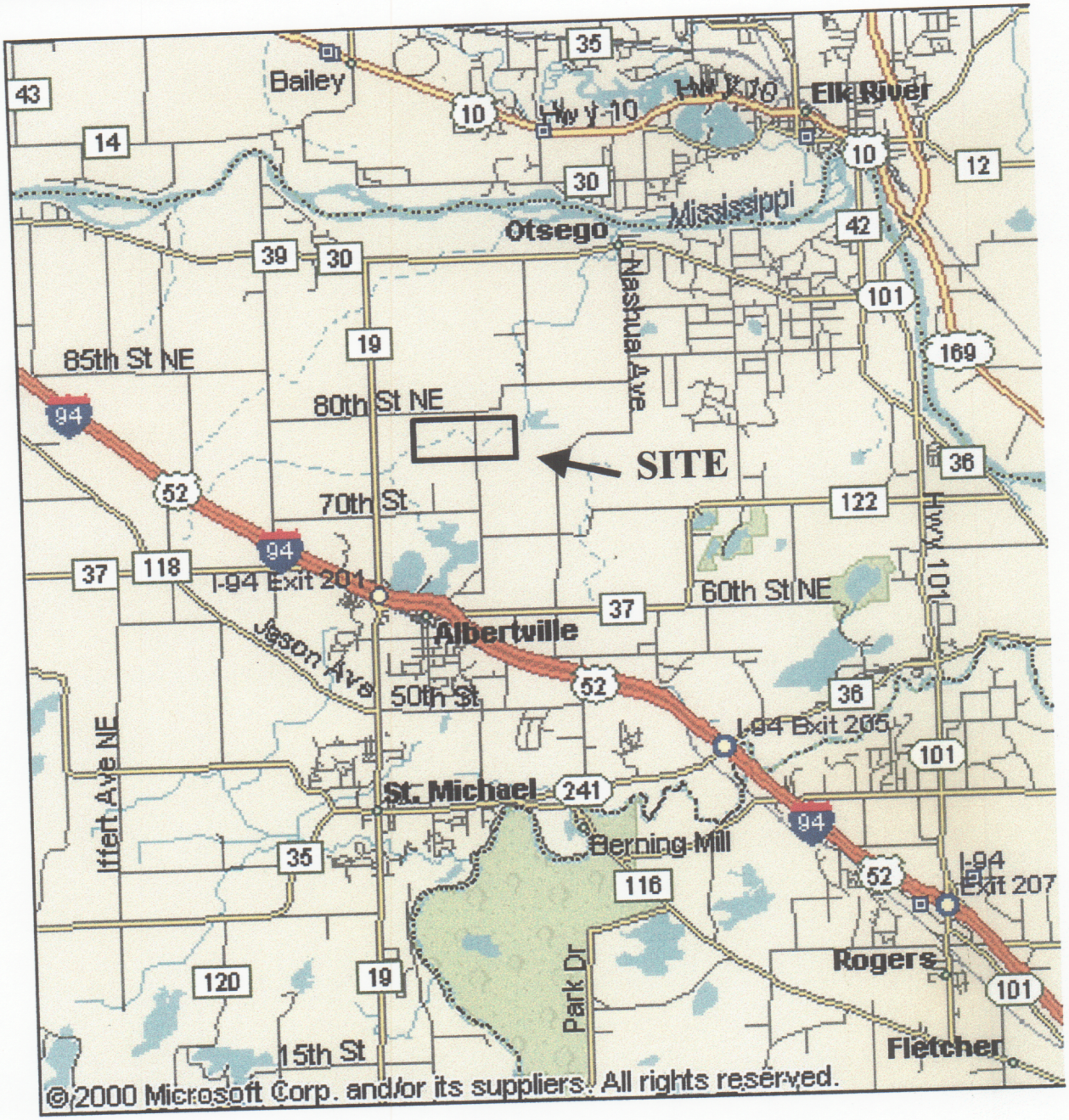

Figure 1 – Site Location Map

Arbor Creek (KES No. 2002-144)
Otsego, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N

No Scale

03-04612-TJF
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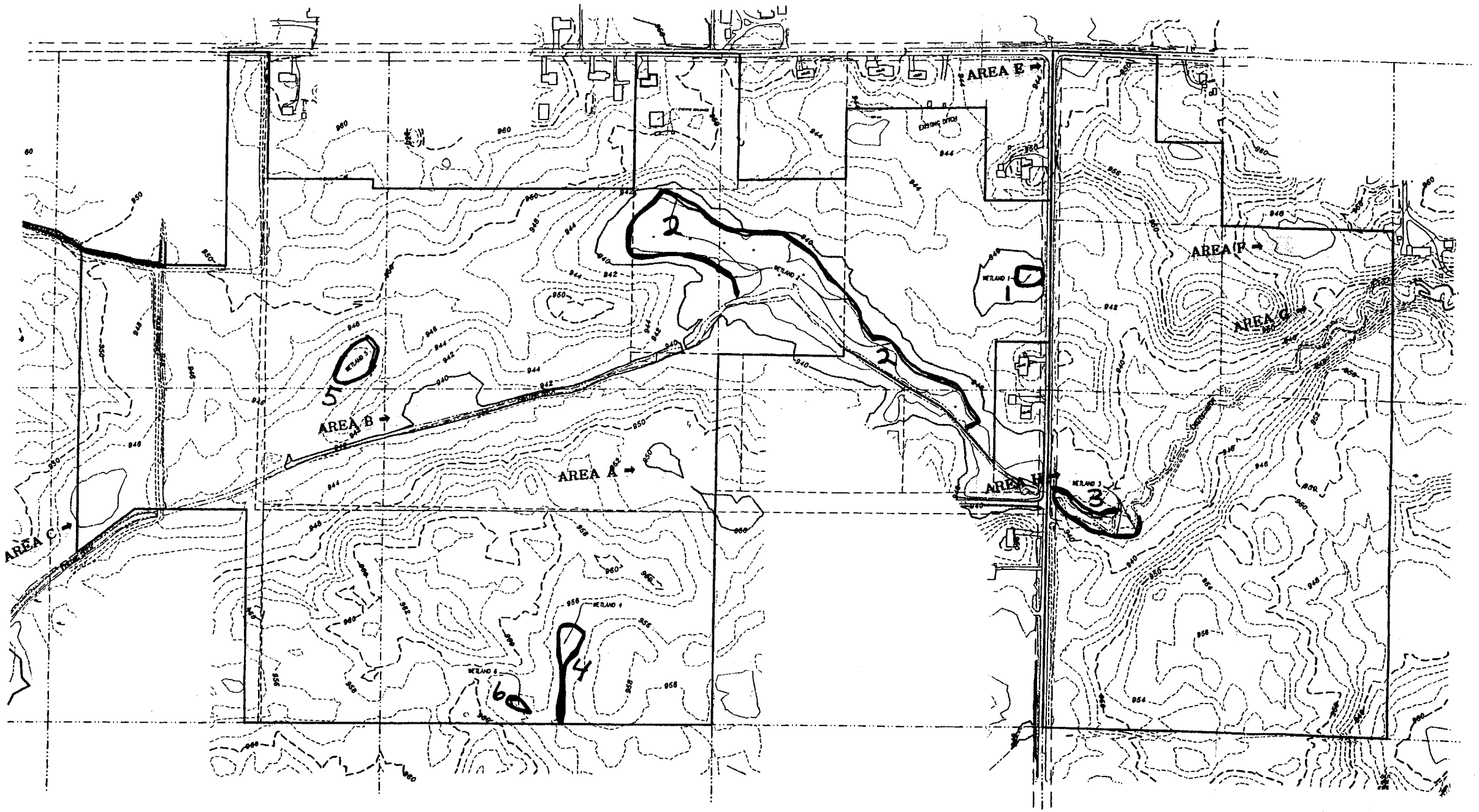

WETLANDS 1-6

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FIGURE 2

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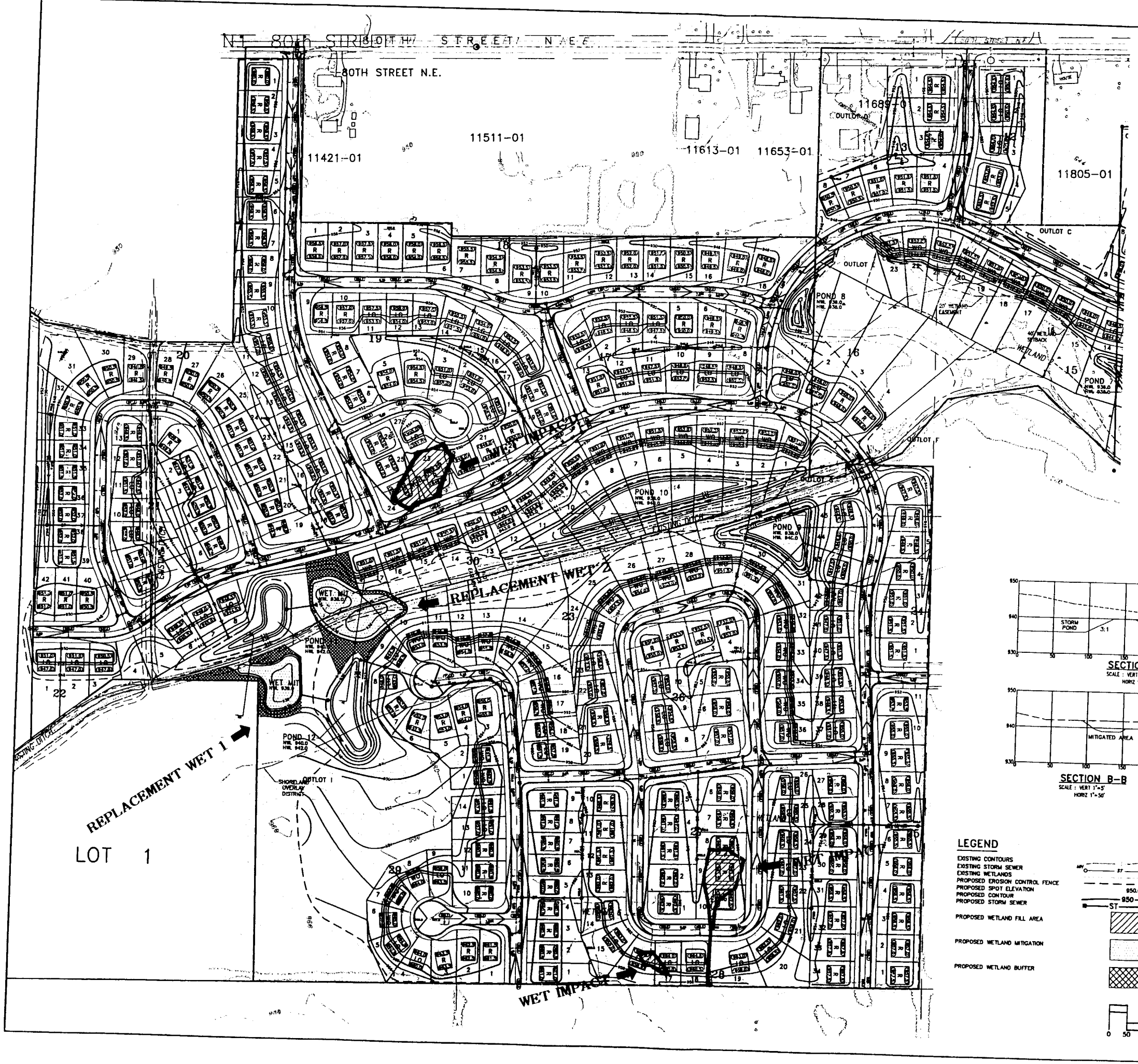
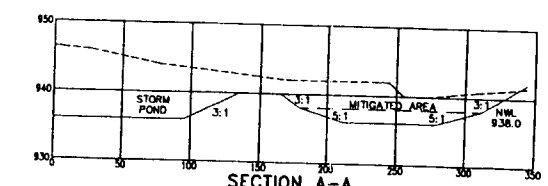


WETLAND IMPACT AND MITIGATION

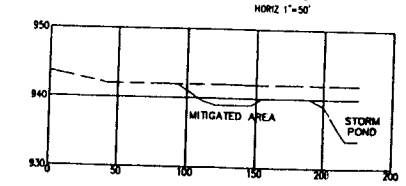
TOTAL WETLAND IMPACT AREA	37,840 SF = 0.87 AC
NEW WETLAND MITIGATION AREA	40,489 SF = 0.93 AC
PROPOSED WETLAND BUFFERS	35,290 SF = 0.81 AC
TOTAL MITIGATION	75,779 SF = 1.74 AC

POND AREAS

	AREA NWL (SF)	AREA BETWEEN NWL & HWL (SF)
POND 1	14,395	7084
POND 2	7955	3607
POND 3	27,465	12,468
POND 4	22,955	5660
POND 5	11,318	4625
POND 6	12,646	4122
POND 7	9790	3893
POND 8	4661	2630
POND 9	28,348	8455
POND 10	56,458	16,030
POND 11	23,724	6368
POND 12	21,580	5604
TOTAL	244,293	78,544



SECTION A-A
SCALE : VERT 1"=5'
HORIZ 1"=50'



SECTION B-B
SCALE : VERT 1"=5'
HORIZ 1"=50'

FIGURE 3

LEGEND

- EXISTING CONTOURS
- EXISTING STORM SEWER
- EXISTING WETLANDS
- PROPOSED EROSION CONTROL FENCE
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED STORM SEWER
- PROPOSED WETLAND FILL AREA
- PROPOSED WETLAND MITIGATION
- PROPOSED WETLAND BUFFER

NORTH

0 50 100 200 400

Engineering • Planning • Surveying

MFRA
McCombs Frank Roos Associates, Inc.

15200 23rd Avenue North • Plymouth, Minnesota • 55447
phone 763/476-6010 • fax 763/476-8332
E-Mail: mfra@mfra.com

Client

Emmerich Development Corporation

Andover, MN

Project

Arbor Creek

Otsego, MN

Sheet Title

Preliminary Wetland Impact/Mitigation Plan

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature

Name David J. Nash

Date 3/18/03 License # 21836

Designed	RMB	Checked	DJN
Drawn	MLS/JHB	Approved	
Date	3/18/03		

Revisions

No.	Date	By	Remarks

WEST

Sheet	Revision
1/2	

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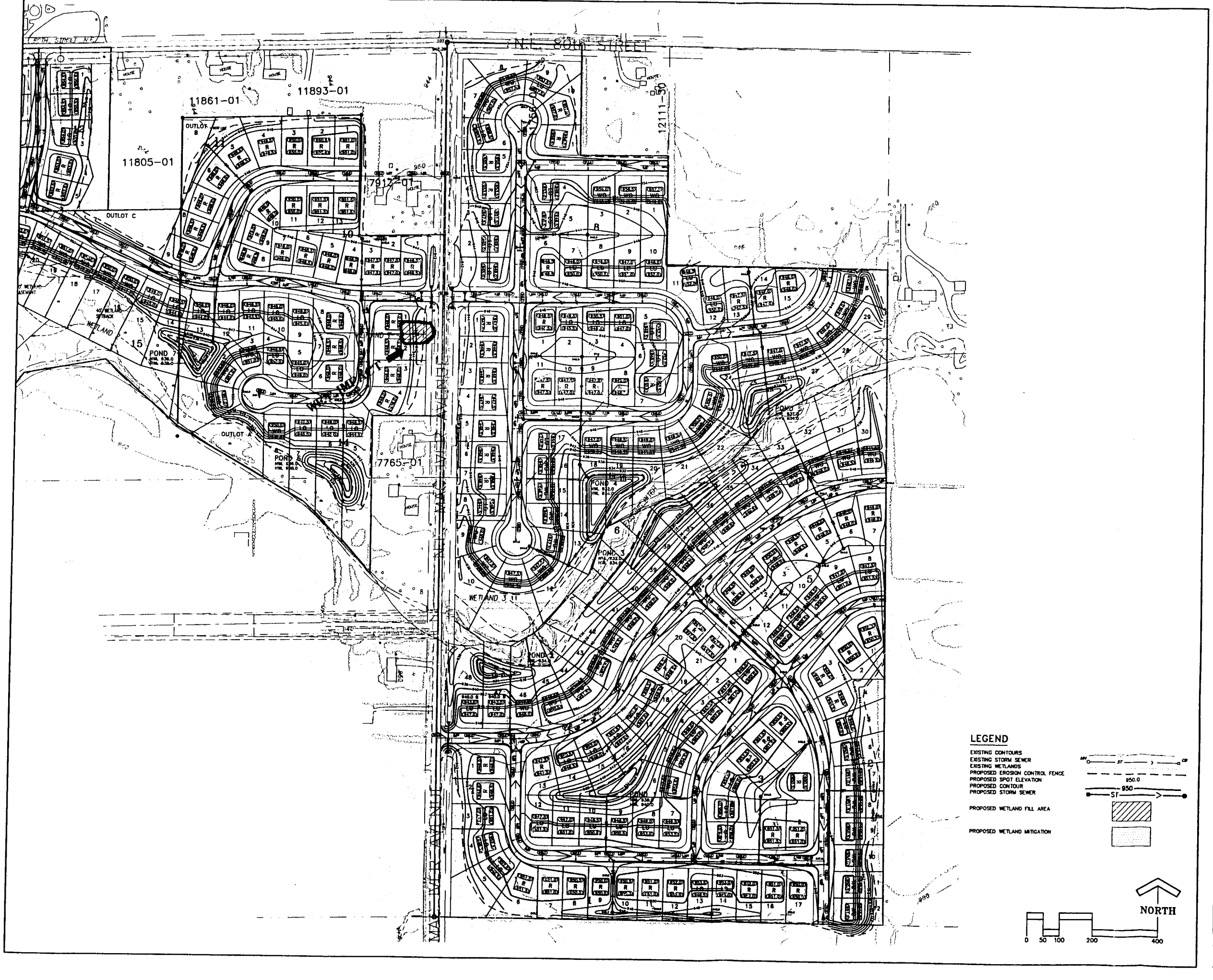
MFRA FILE NO.: 13789



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I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature

Name David J. Nash

Date 3/18/03 License # 21836

Designed RWB Checked DJN

Drawn MLS/JHB Approved

Date 3/18/03

Revisions

No.	Date	By	Remarks

Sheet Revision

2/2

EAST
03-04612-TJF
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FIGURE 4

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