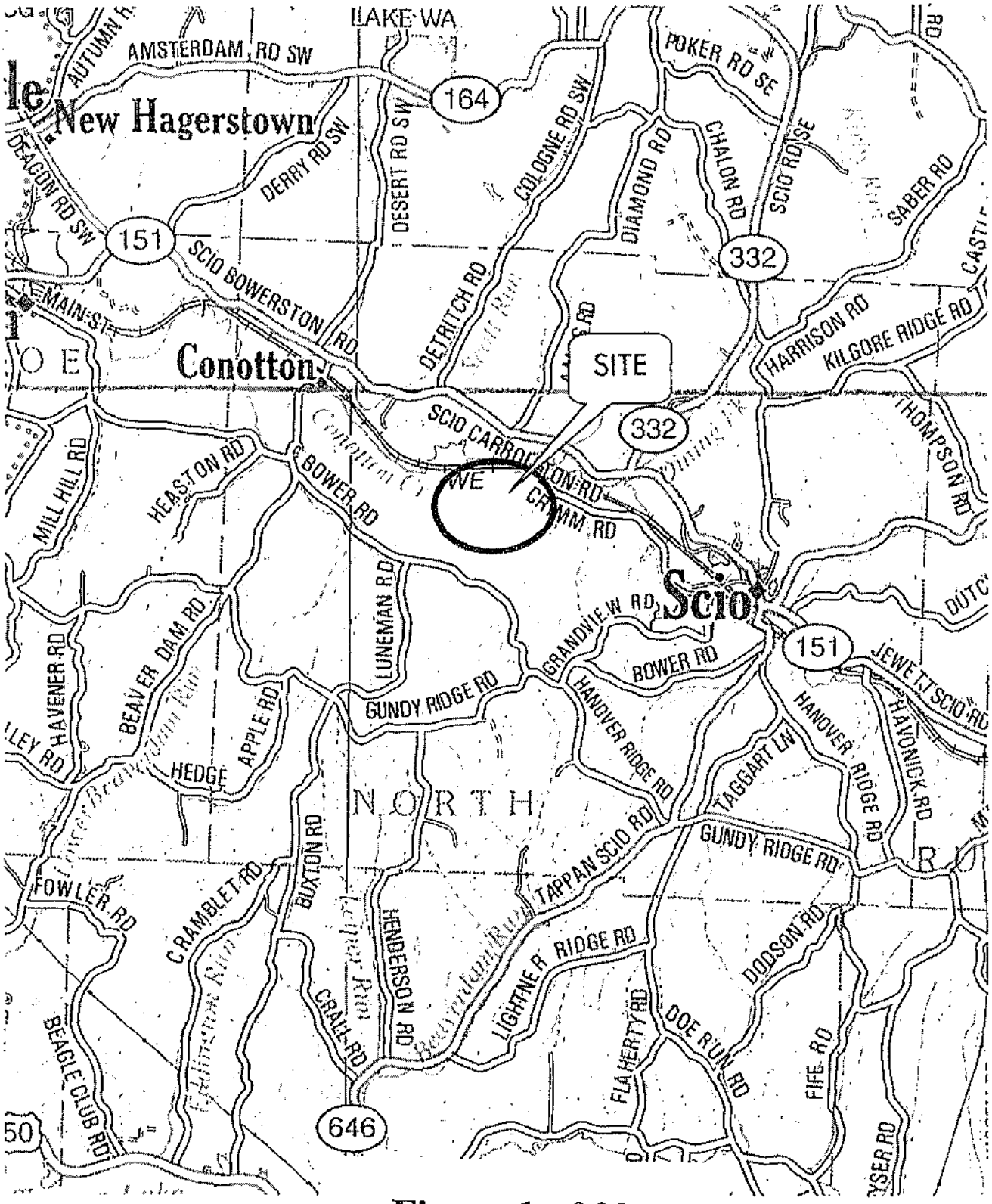


Figure 1 of 39

EMHT

Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road Columbus OH 43054
Phone: 614.775.4500 Fax: 614.775.4800
M C H X X V I

N

SCALE: 1"= 1 MILE

0 0.5 1.0 2.0 MILES

NORTH TOWNSHIP, HARRISON COUNTY, OHIO
UTICA EAST HARRISON HUB FACILITY
AREA LOCATION MAP
Exhibit 1

Source:
- OHIO ATLAS & GAZETTEER (2011)

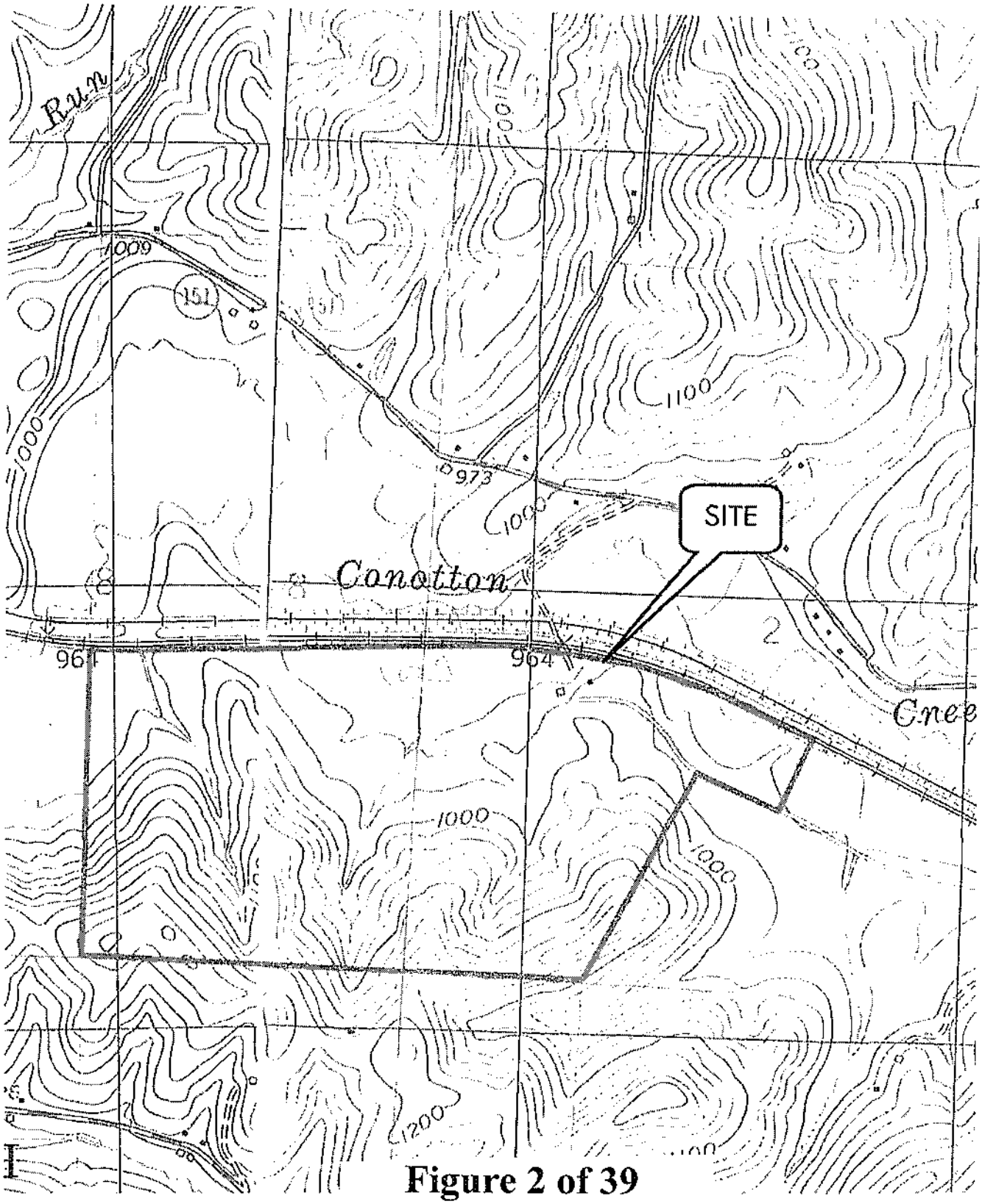


Figure 2 of 39

EMH&T

Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Fax: 614.775.4800

M C M X R V I

N

SCALE: 1"=1000'

0 500 1000 2000 FEET

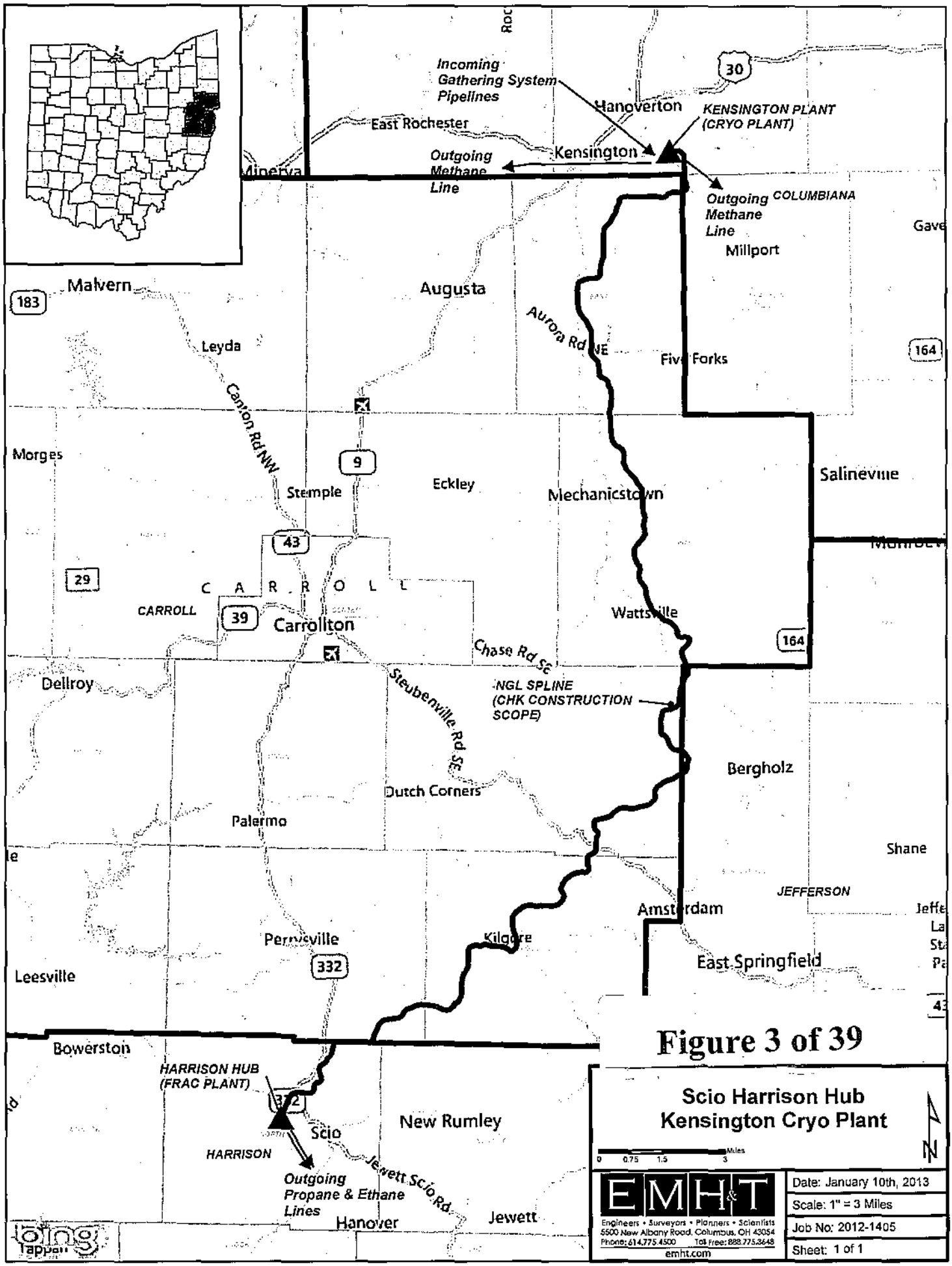
NORTH TOWNSHIP, HARRISON COUNTY, OHIO

UTICA EAST HARRISON HUB FACILITY

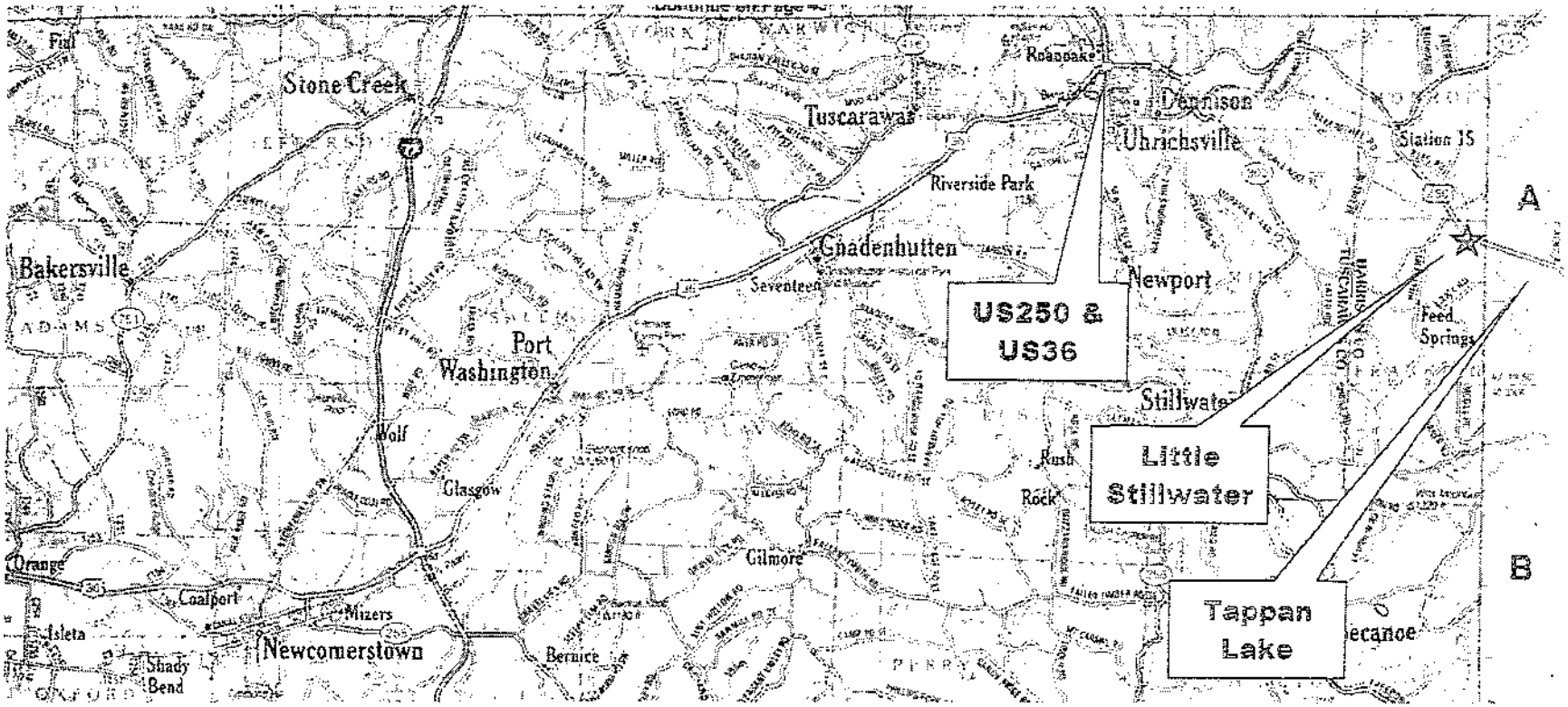
USGS TOPOGRAPHIC MAP

Exhibit 2

Sources:
- USGS SCIO, OHIO QUAD (1994)
- USGS BOWERSTON, OHIO QUAD (1994)

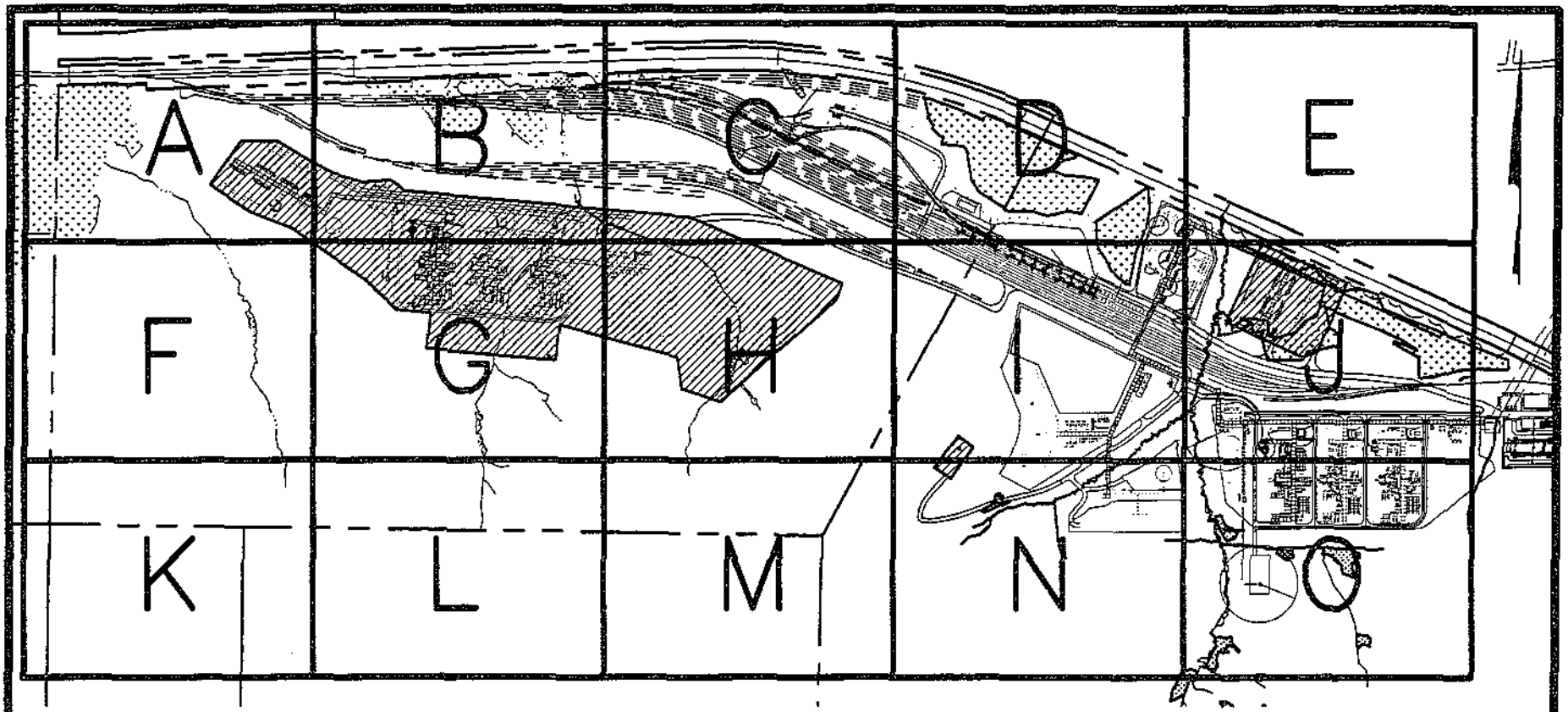

Incoming Gathering System Pipelines
Hanoverton
KENSINGTON PLANT (CRYO PLANT)
East Rochester
Kensington
Outgoing Methane Line
Outgoing Methane Line
COLUMBIANA
Millport
Malvern
Augusta
Leyda
Aurora Rd NE
Five Forks
Canton Rd NW
Morges
Stemple
Eckley
Mechanicstown
Salineville
CARROLL
Carrollton
Wattsville
Chase Rd SE
Dellroy
Steubenville Rd SE
NGL SPLINE (CHK CONSTRUCTION SCOPE)
Bergholz
Dutch Corners
Palermo
Shane
JEFFERSON
Amsterdam
Perrysville
Kilgore
East Springfield
Leesville
Bowerston
HARRISON HUB (FRAC PLANT)
Scio
New Rumley
HARRISON
Jewett Scio Rd
Outgoing Propane & Ethane Lines
Hanover
Jewett
Figure 3 of 39
Scio Harrison Hub
Kensington Cryo Plant
Miles
0 0.75 1.5 3
EMH&T
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com
Date: January 10th, 2013
Scale: 1" = 3 Miles
Job No: 2012-1405
Sheet: 1 of 1

LITTLE STILLWATER



Little Stillwater is located in Harrison County, on US 250 approximately 8 miles SE of the US250 and US36 intersection in Uhrichsville (or approximately 15 miles NW of Cadiz).

Figure 4 of 39



LEGEND

- PROPOSED C/L TRACK
- PROPOSED STONE ROAD
- PROPOSED INDUSTRIAL PAD
- EXISTING STREAM
- EXISTING WETLAND

GRAPHIC SCALE

0 400 800 1600

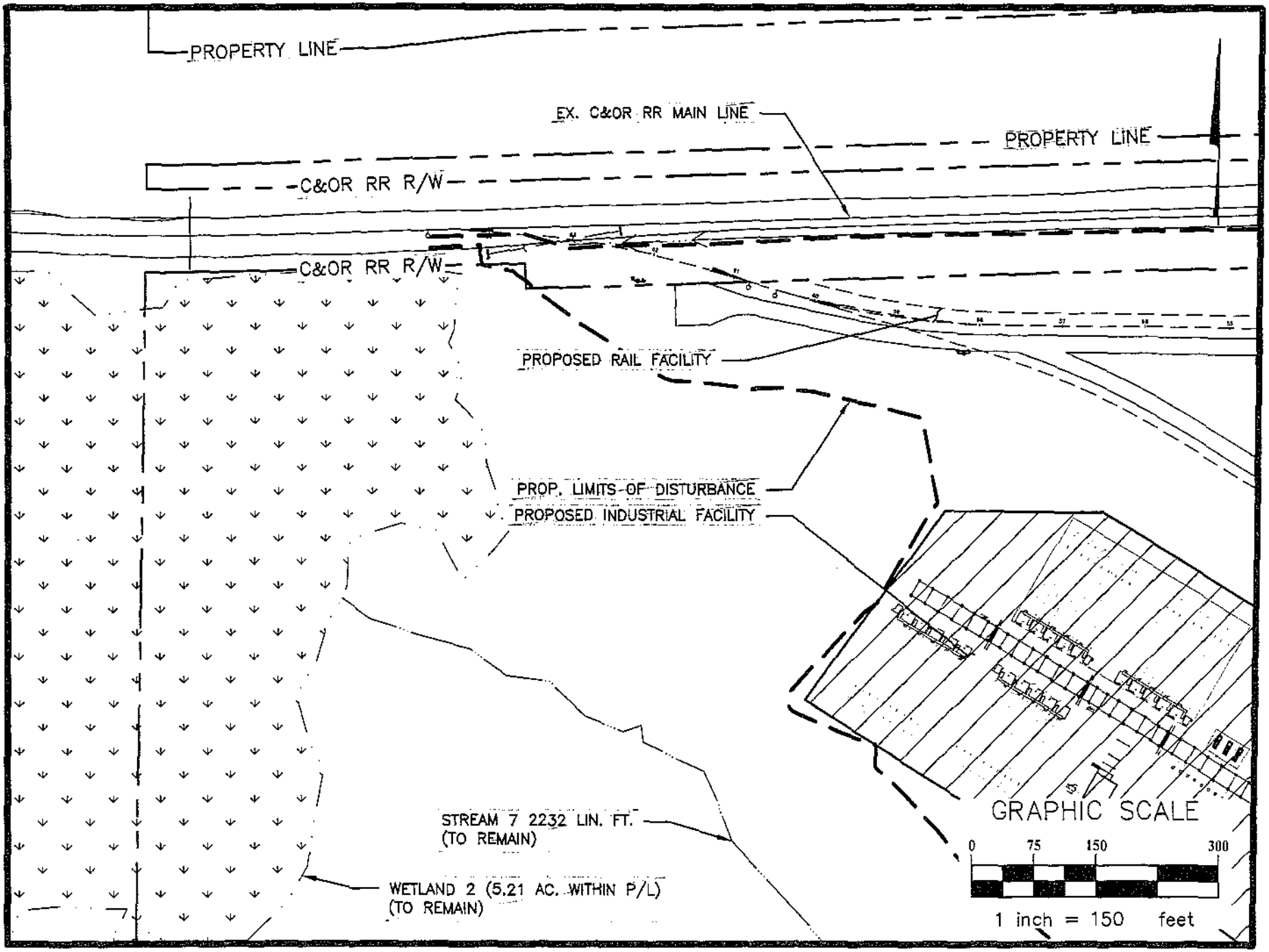
1 inch = 800 feet

VILLAGE OF SCIO, HARRISON COUNTY, OHIO
PHASE 2 PREFERRED SITE LAYOUT EXHIBIT
KEY PLAN
FOR

HARRISON HUB FACILITY
UTICA EAST OHIO MIDSTREAM, LLC

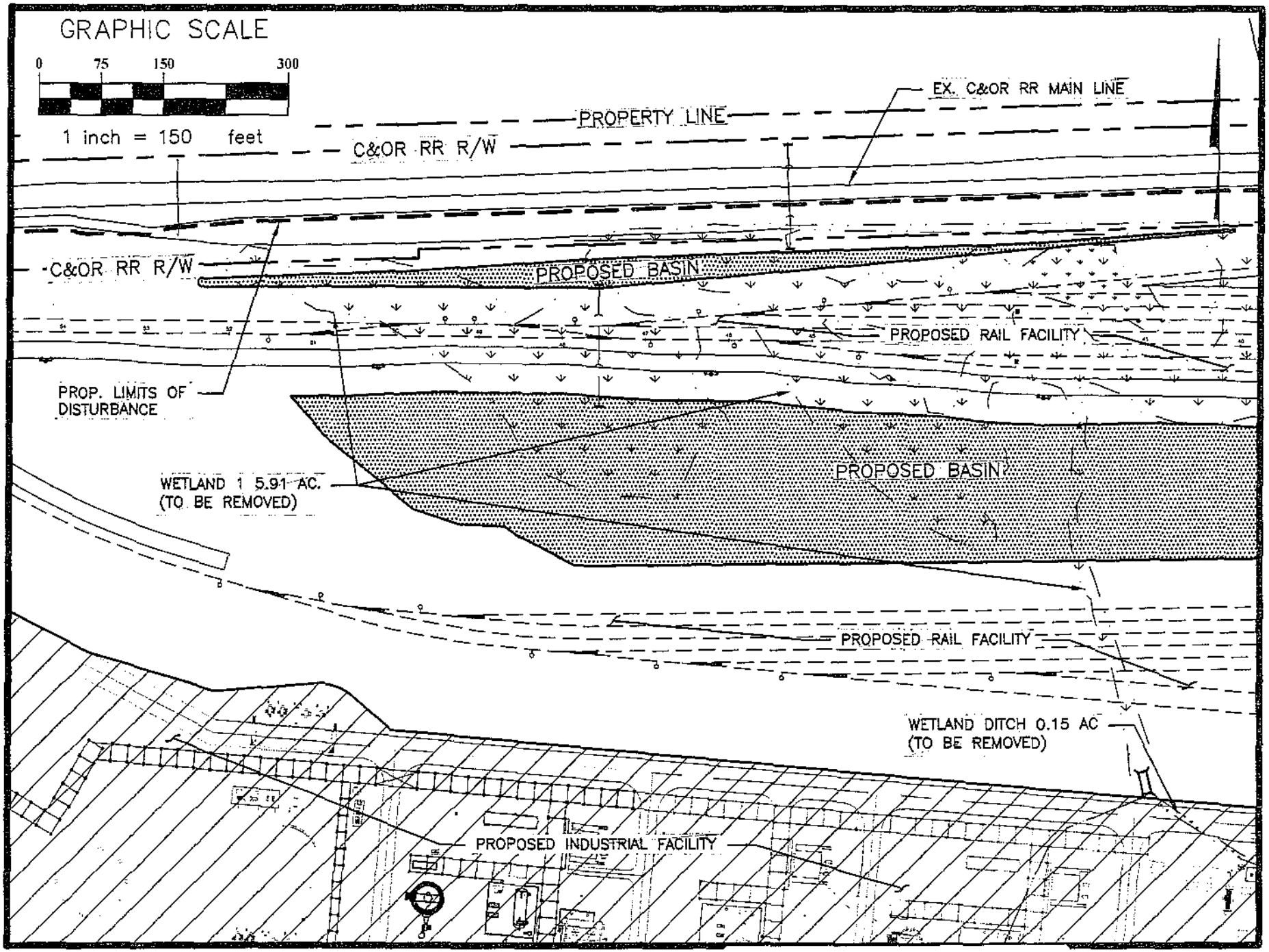
DATE: DECEMBER 27, 2012
JOB NUMBER: 2012-1405

Figure 5 of 39



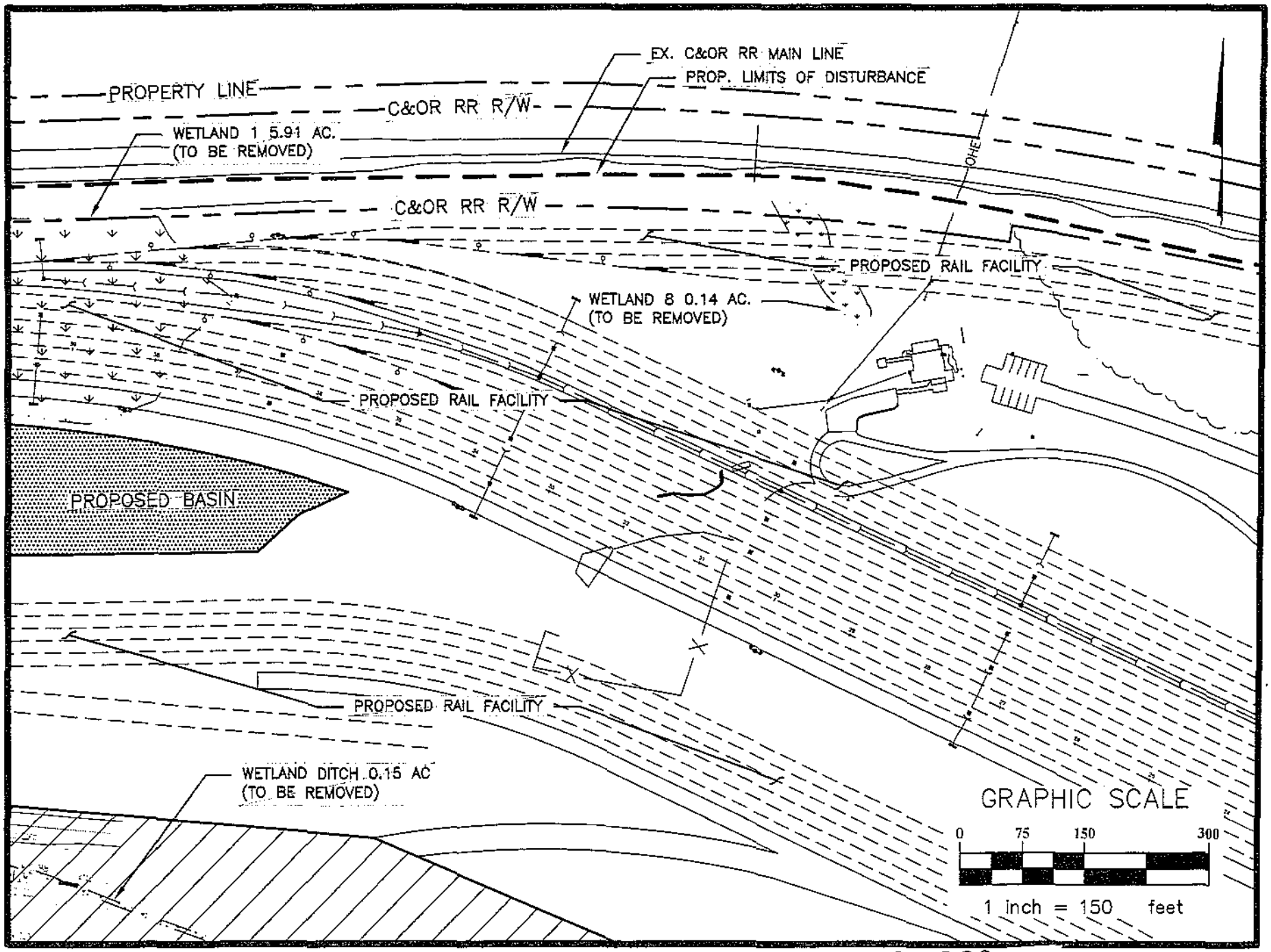
SHEET A

Figure 6 of 39



SHEET B

Figure 7 of 39



SHEET C **Figure 8 of 39**

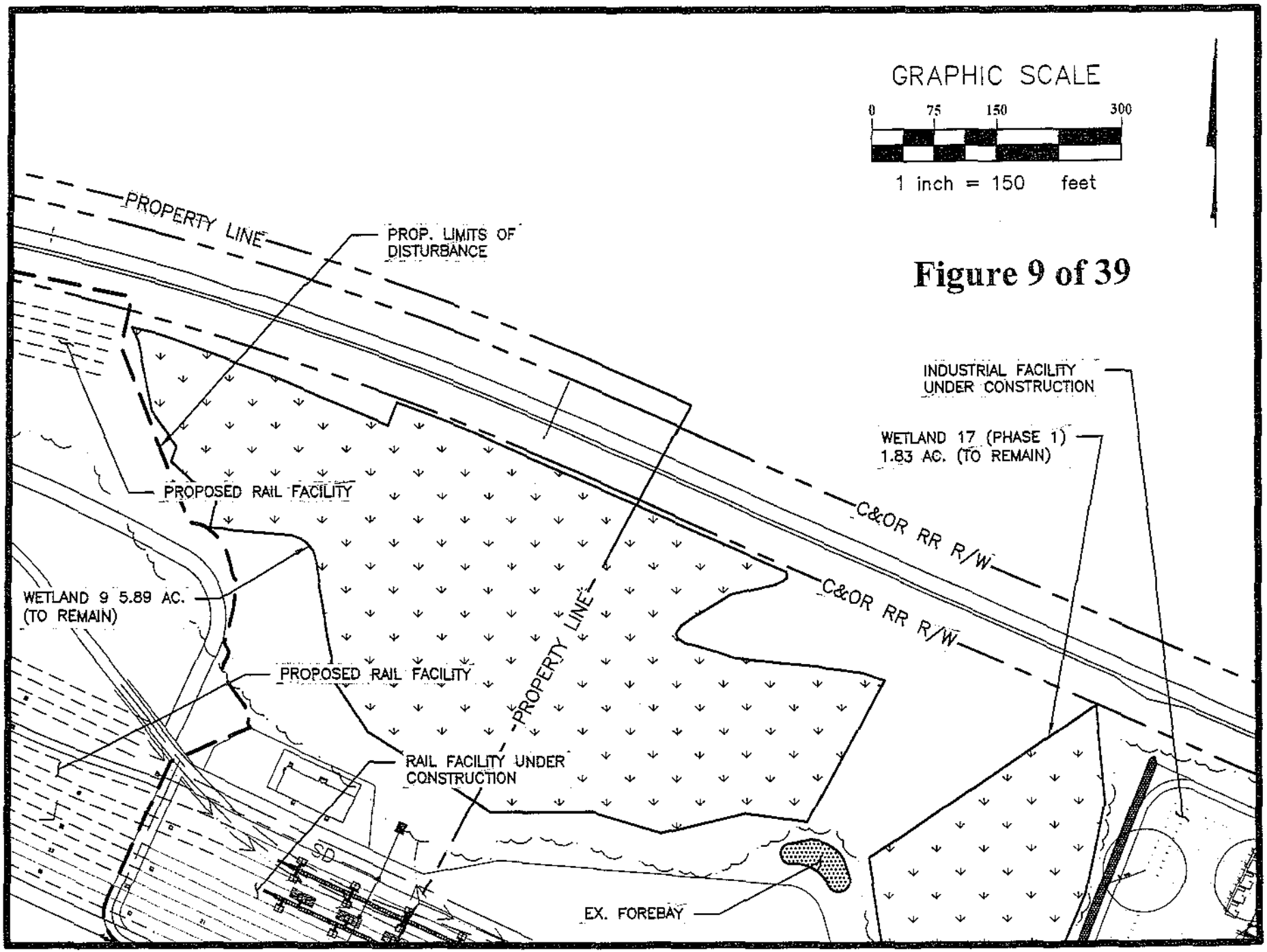


Figure 9 of 39

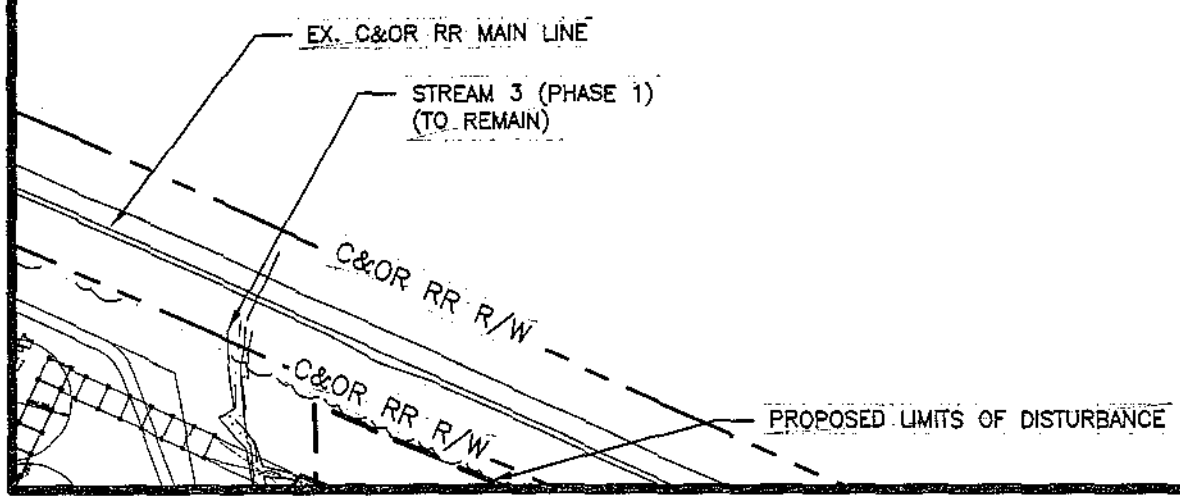
SHEET D

GRAPHIC SCALE

0 75 150 300

1 inch = 150 feet

Figure 10 of 39



SHEET E

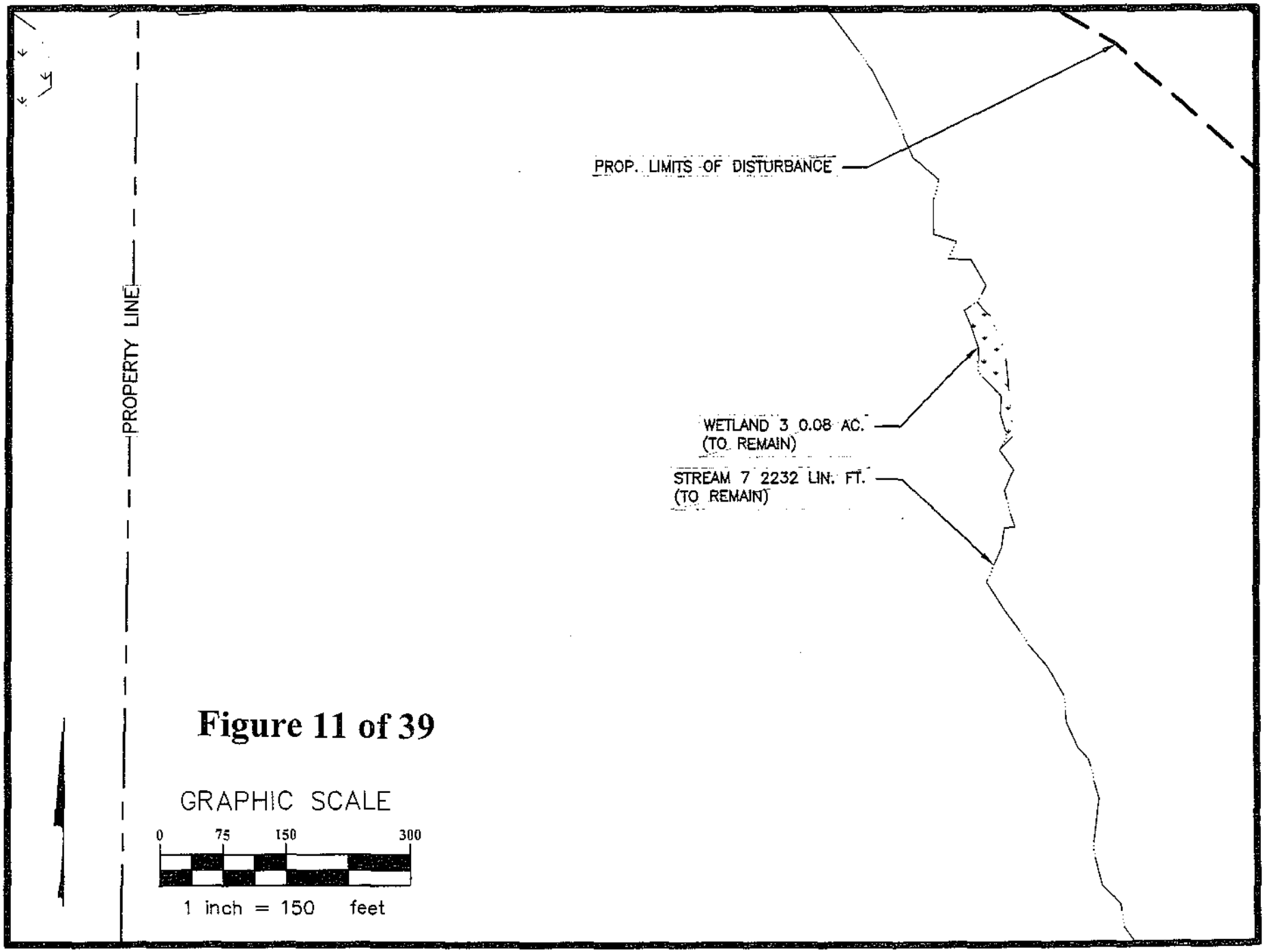


Figure 11 of 39

SHEET F

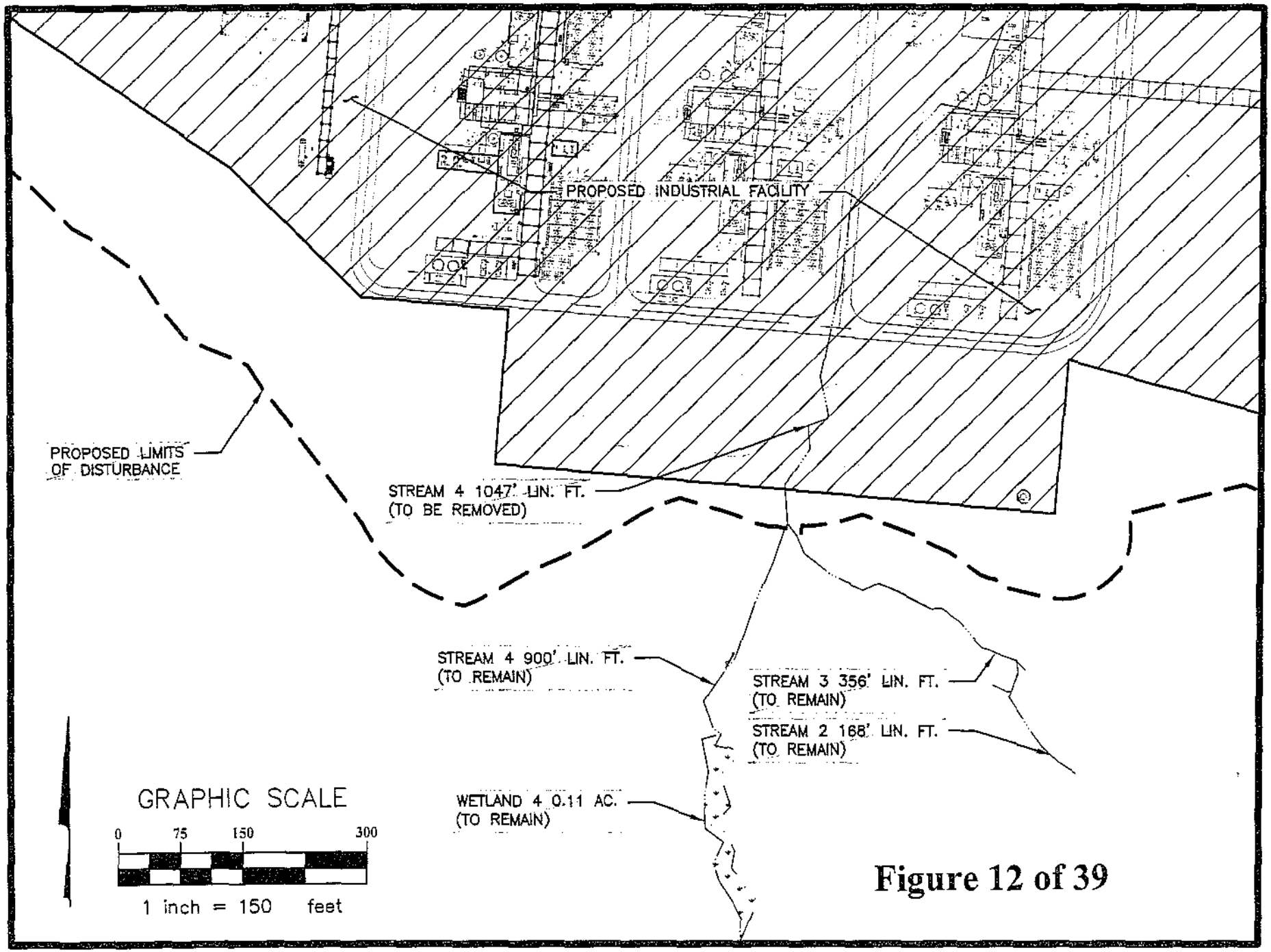


Figure 12 of 39

SHEET G

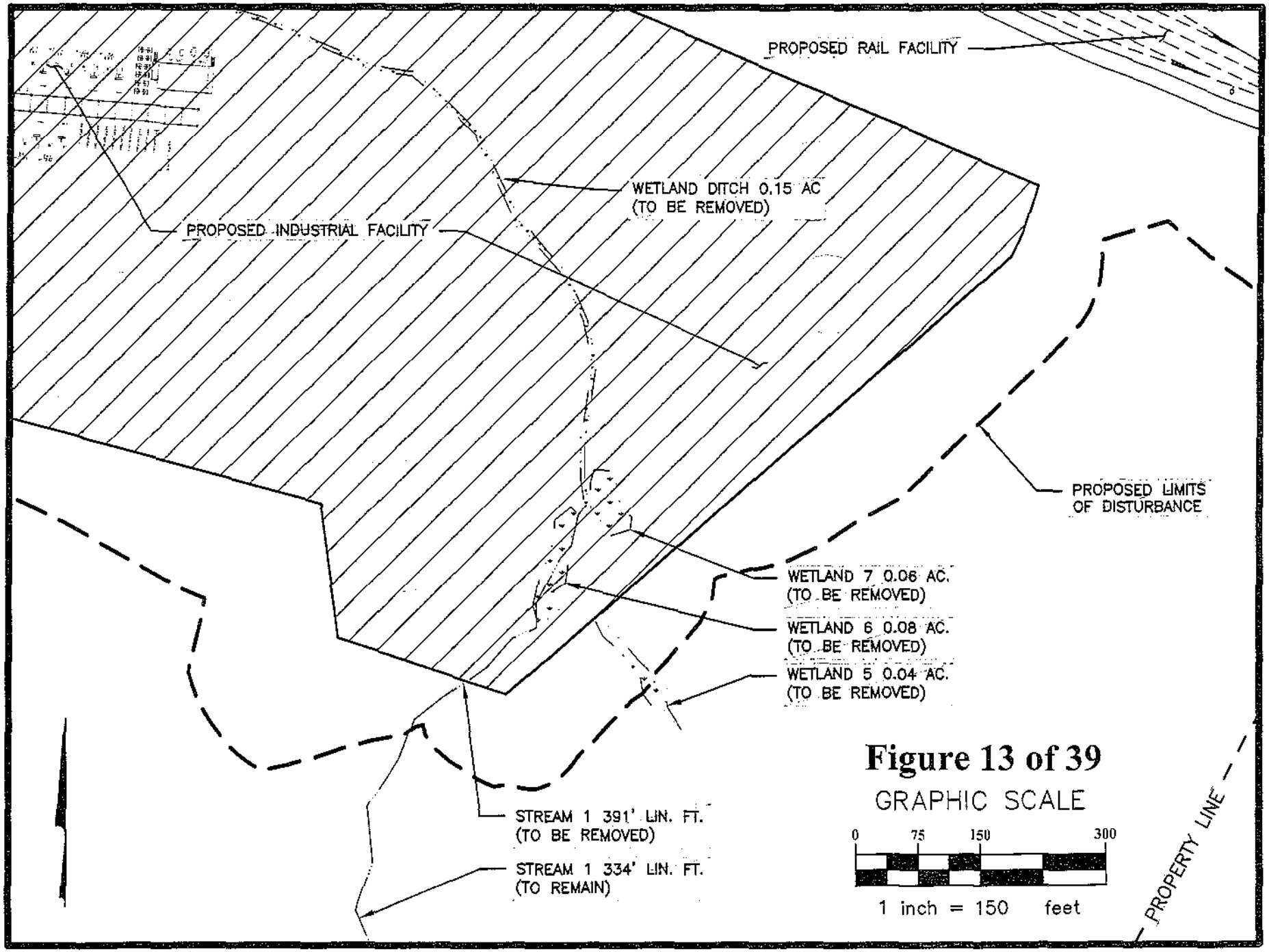


Figure 13 of 39

SHEET H

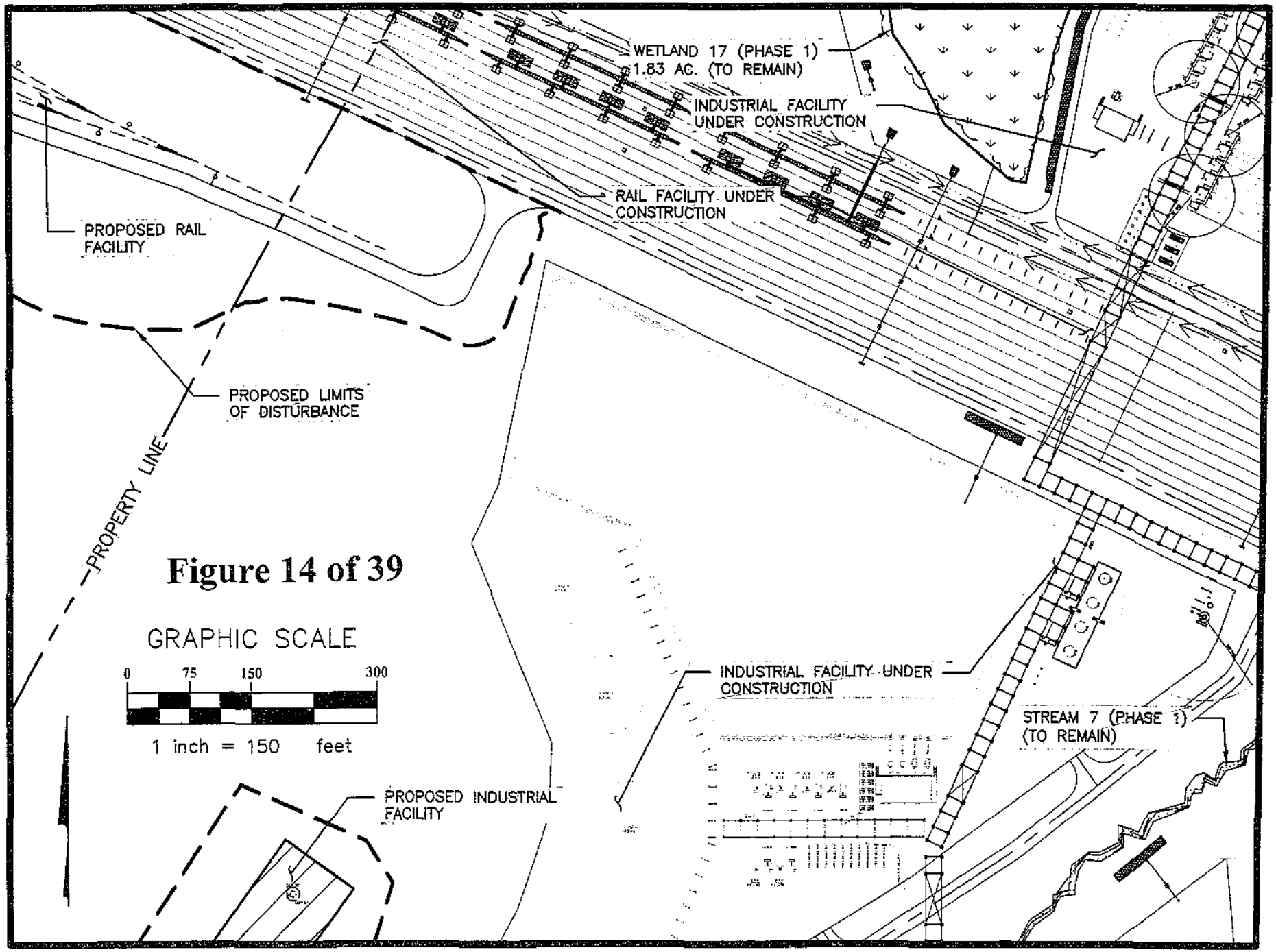
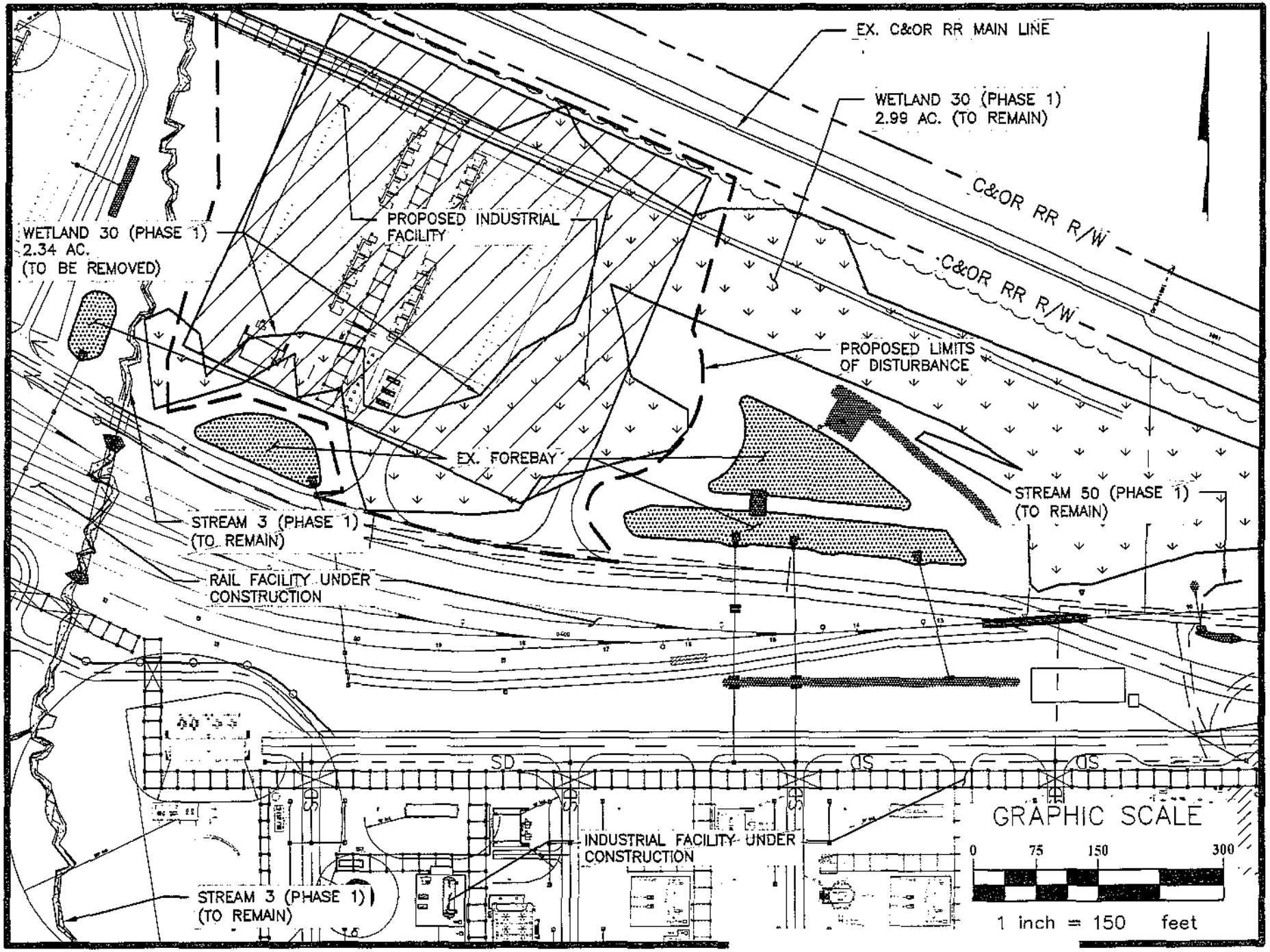


Figure 14 of 39

SHEET 1



SHEET J

Figure 15 of 39

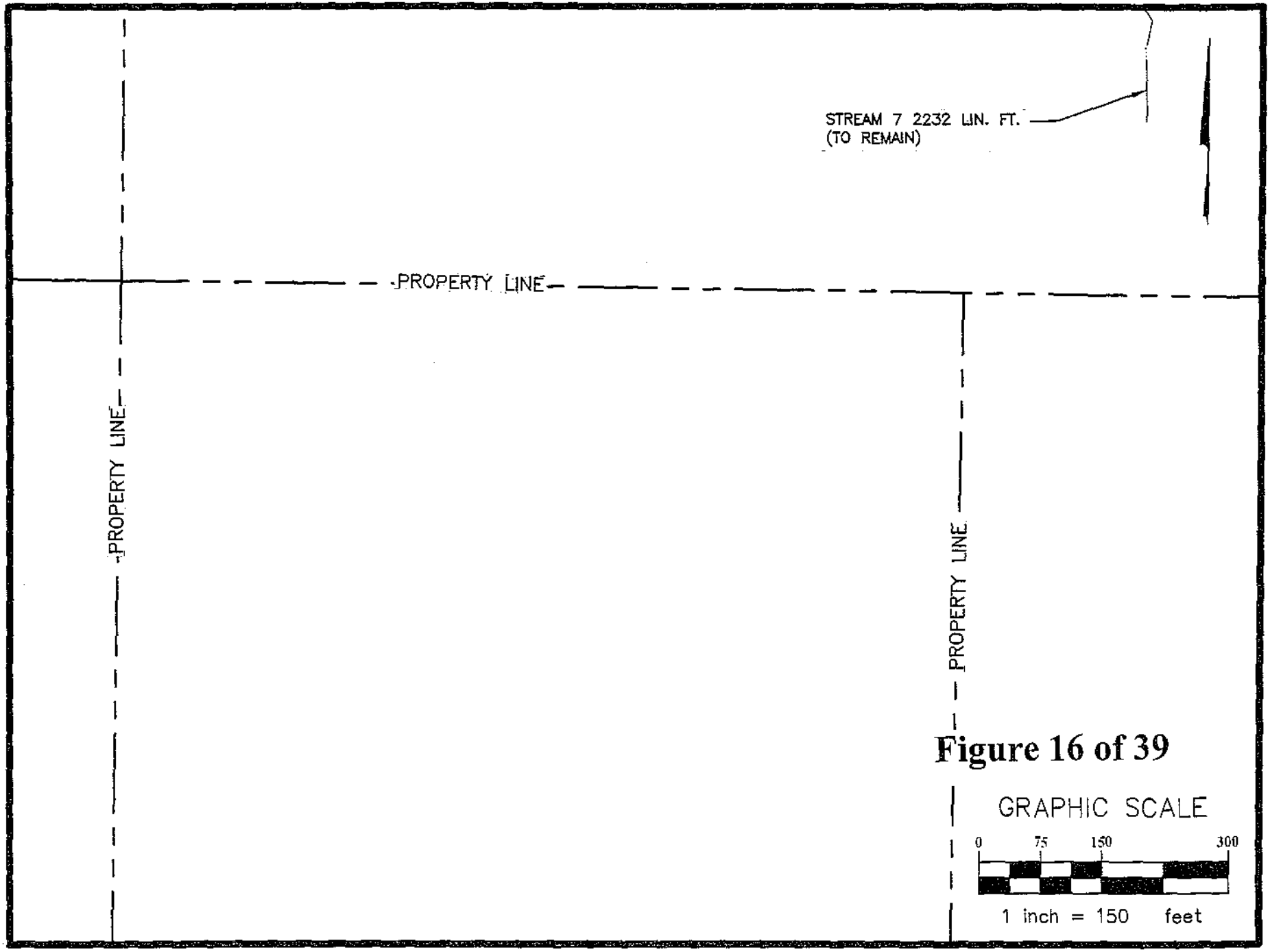


Figure 16 of 39

SHEET K

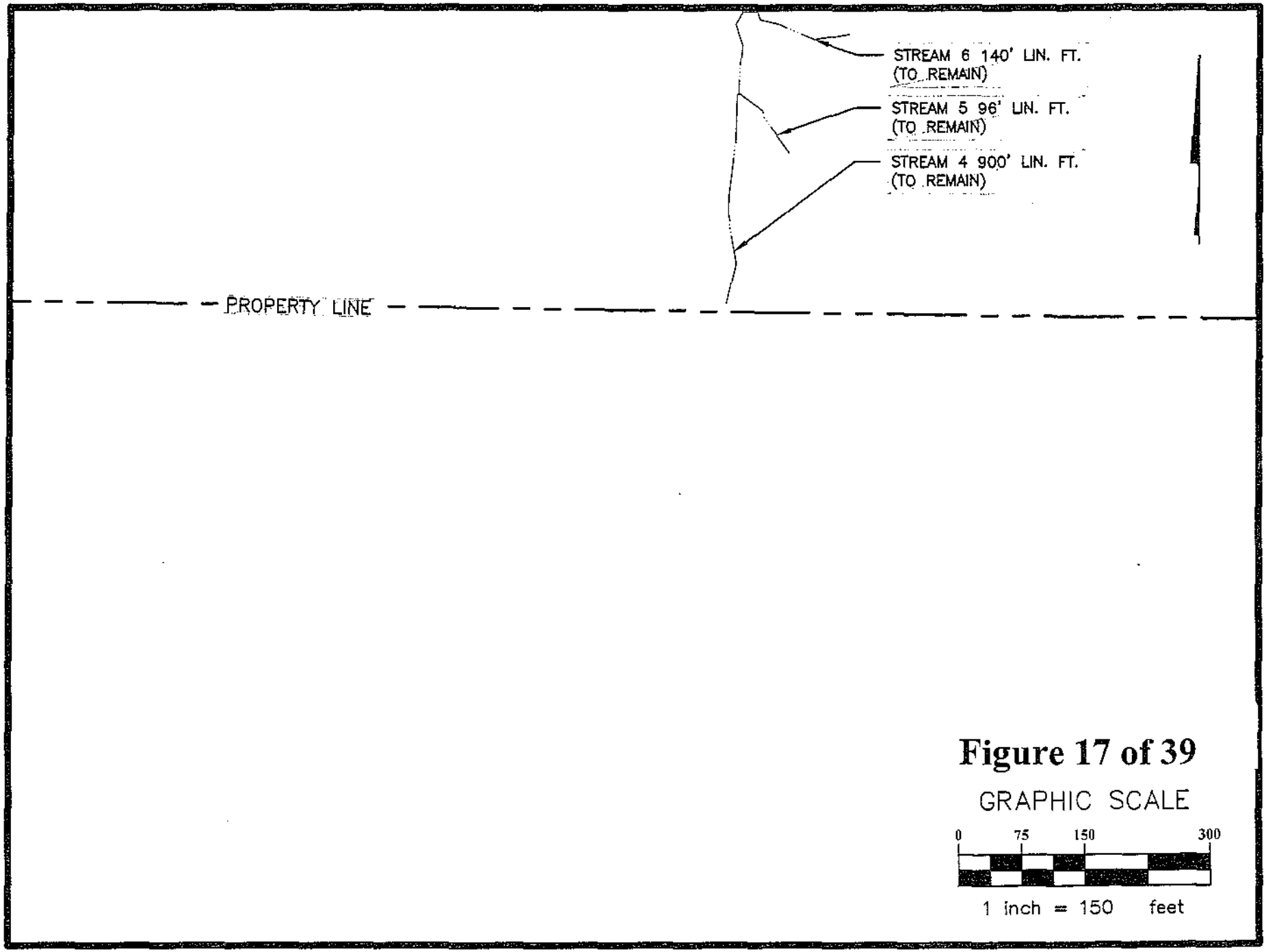


Figure 17 of 39

SHEET L

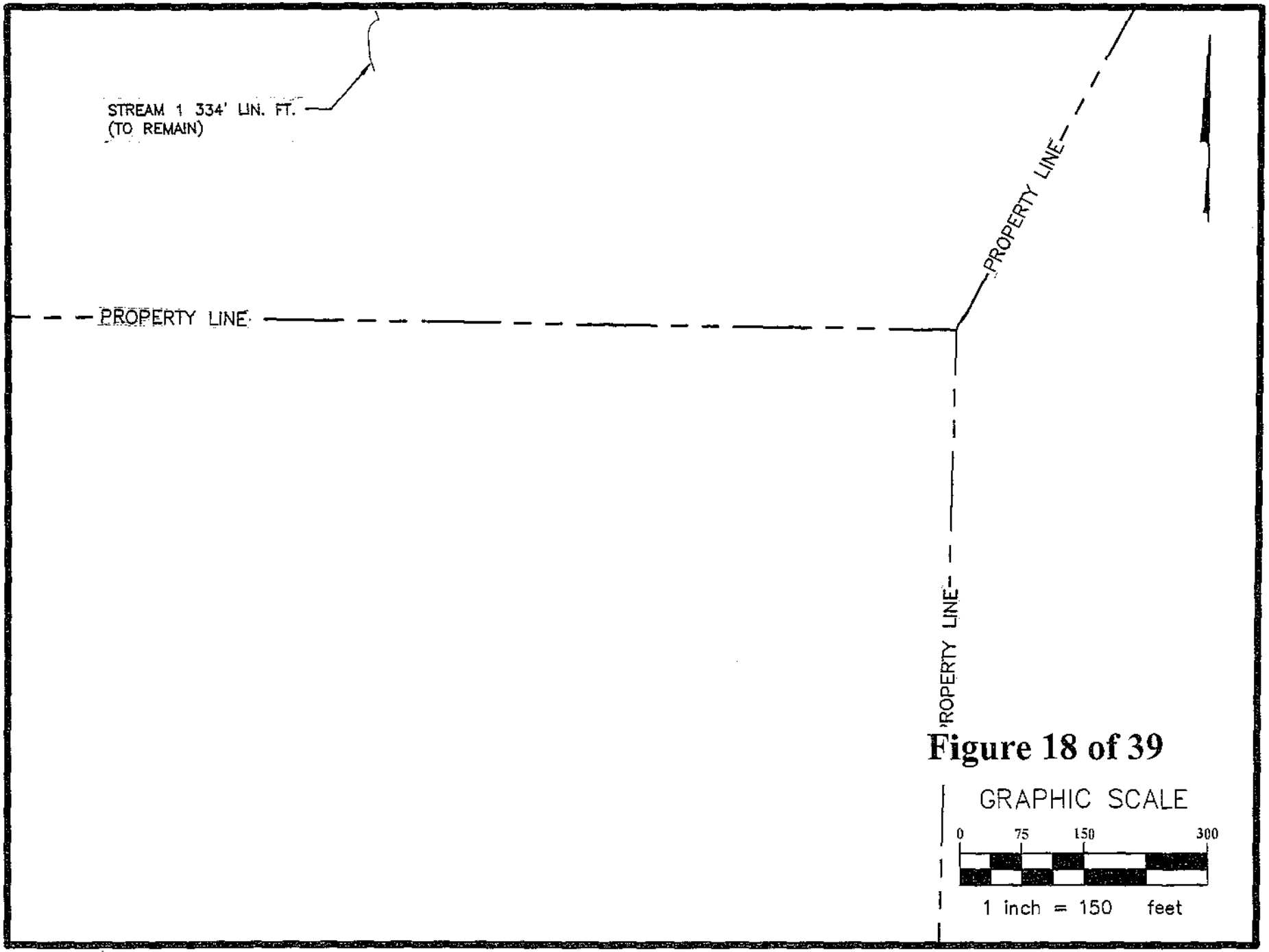


Figure 18 of 39

SHEET M

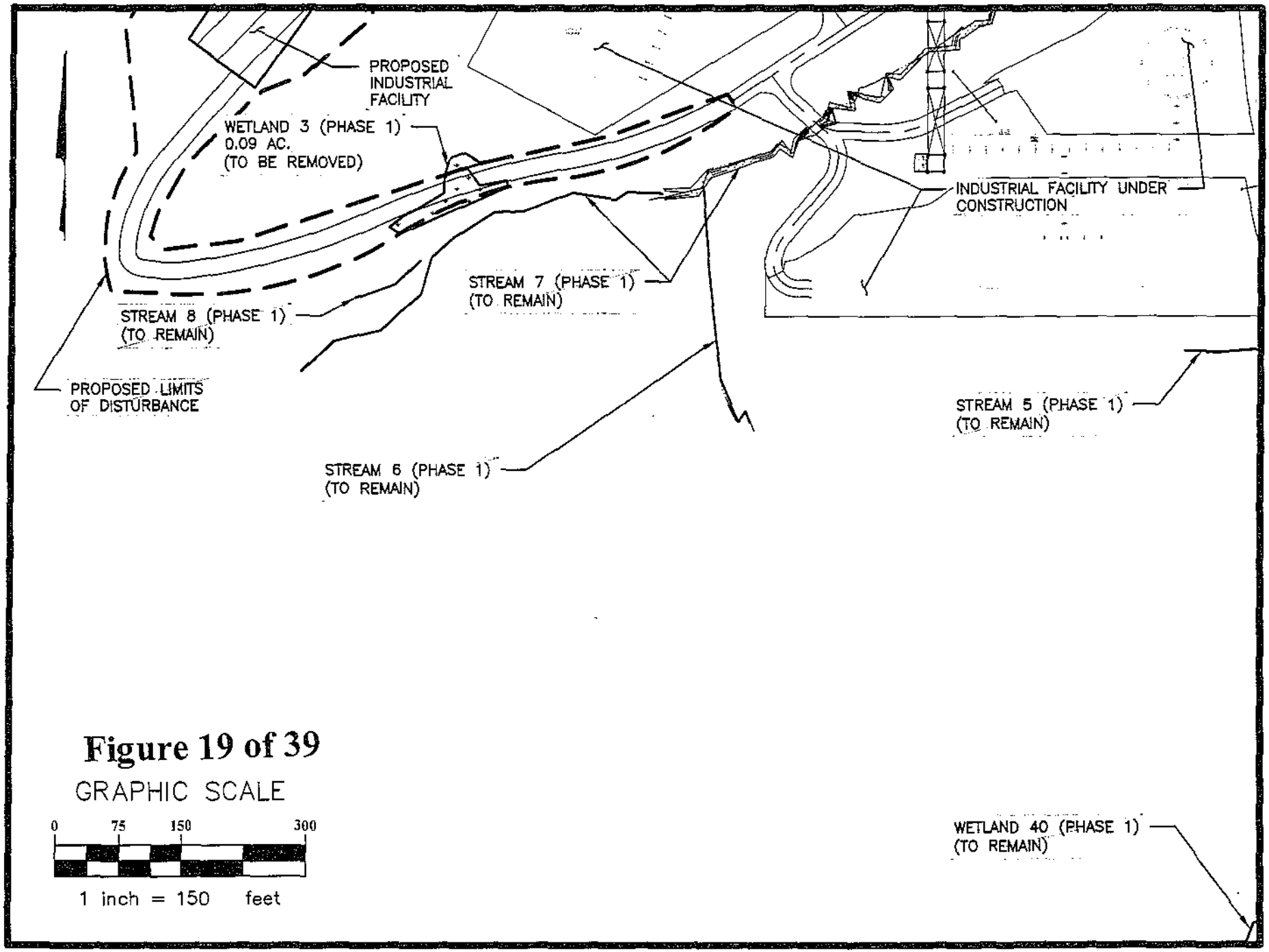


Figure 19 of 39

SHEET N

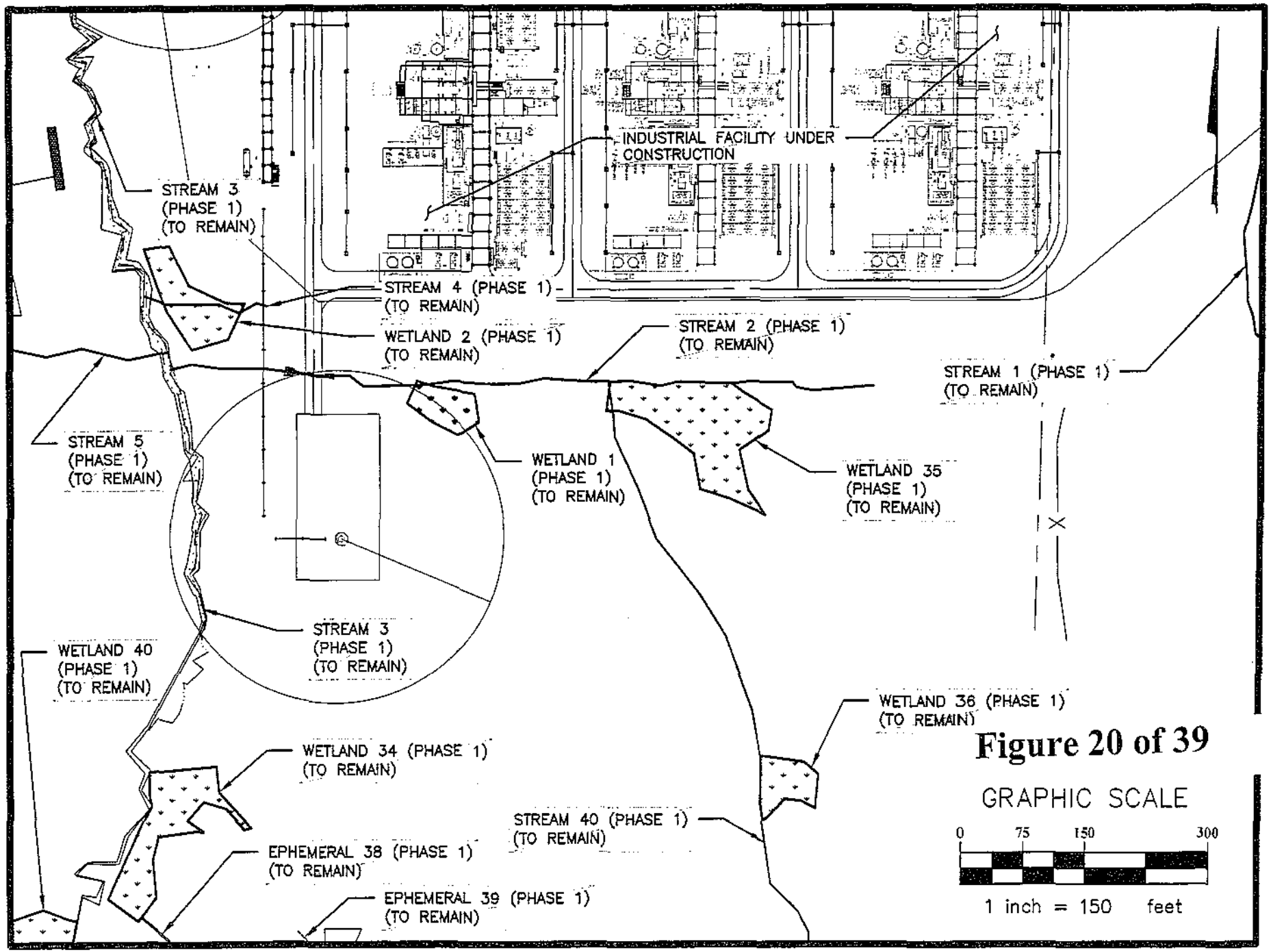
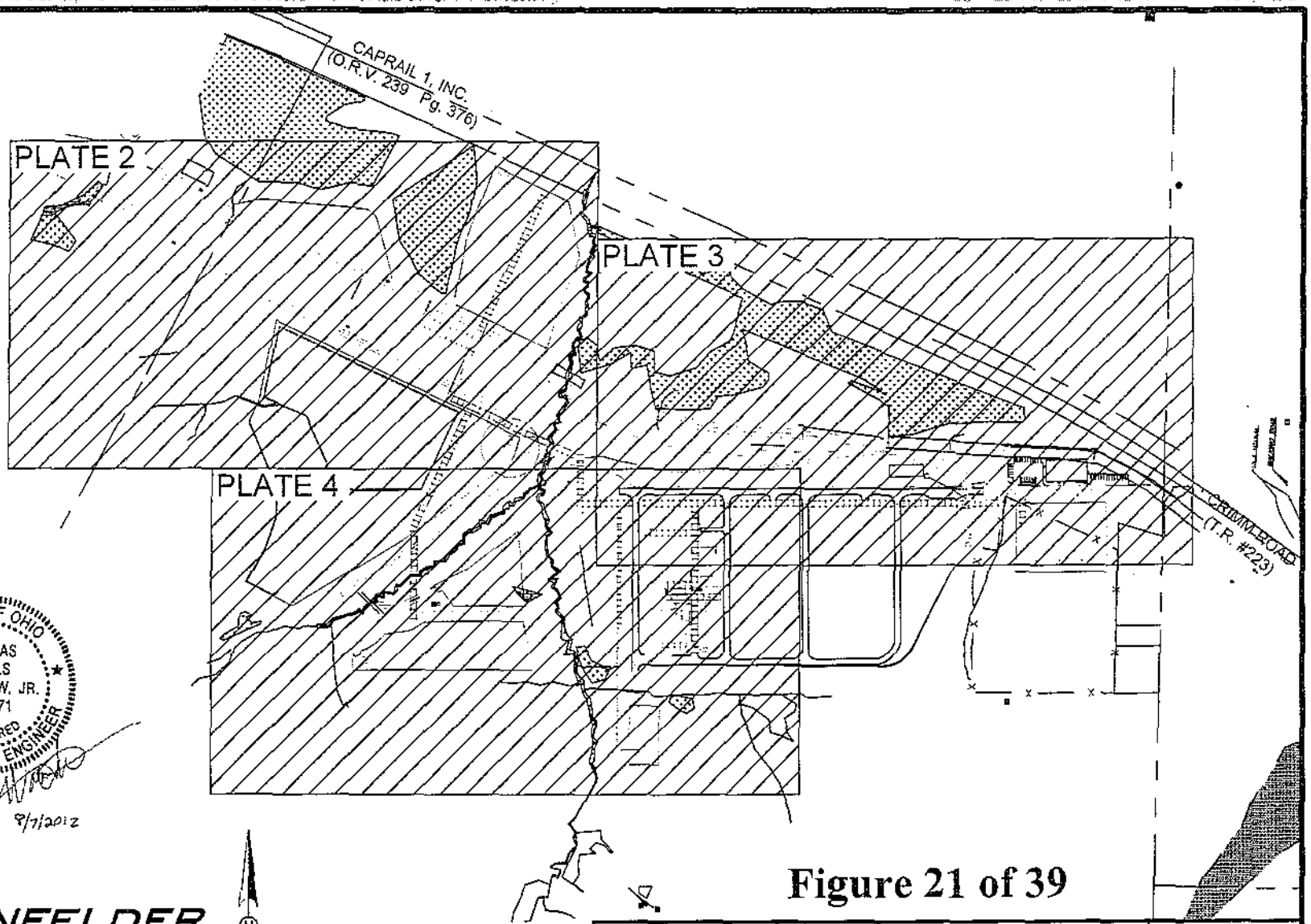


Figure 20 of 39

SHEET O



STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
REGISTERED PROFESSIONAL ENGINEER
8/7/2012

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0 500 1,000
SCALE: 1" = 500' SCALE IN FEET

Figure 21 of 39

PROJECT NO. 126187	PERMIT PLATE REFERENCE PERMIT PLATES	PLATE 1 of 18
DATE: 08/06/2012		
REVISED:		1
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		

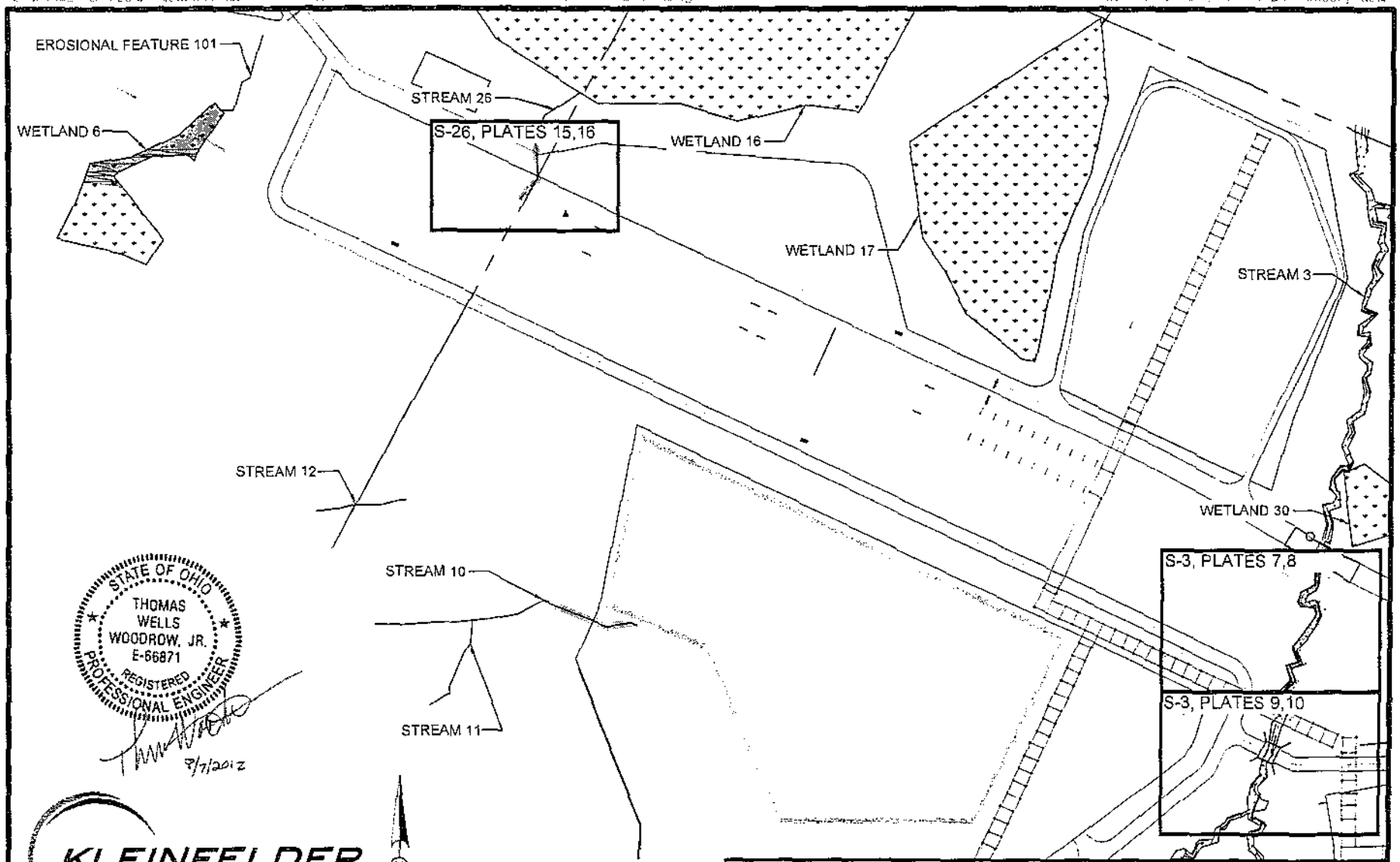

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Figure 22 of 39

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T NO. 126187 08/06/2012 REVISED: DRAWN BY: KSR CHECKED BY: AGB	PROPOSED PLAN PERMIT PLATE KEY MAP PERMIT PLATES	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	PLATE 2 of 18 2

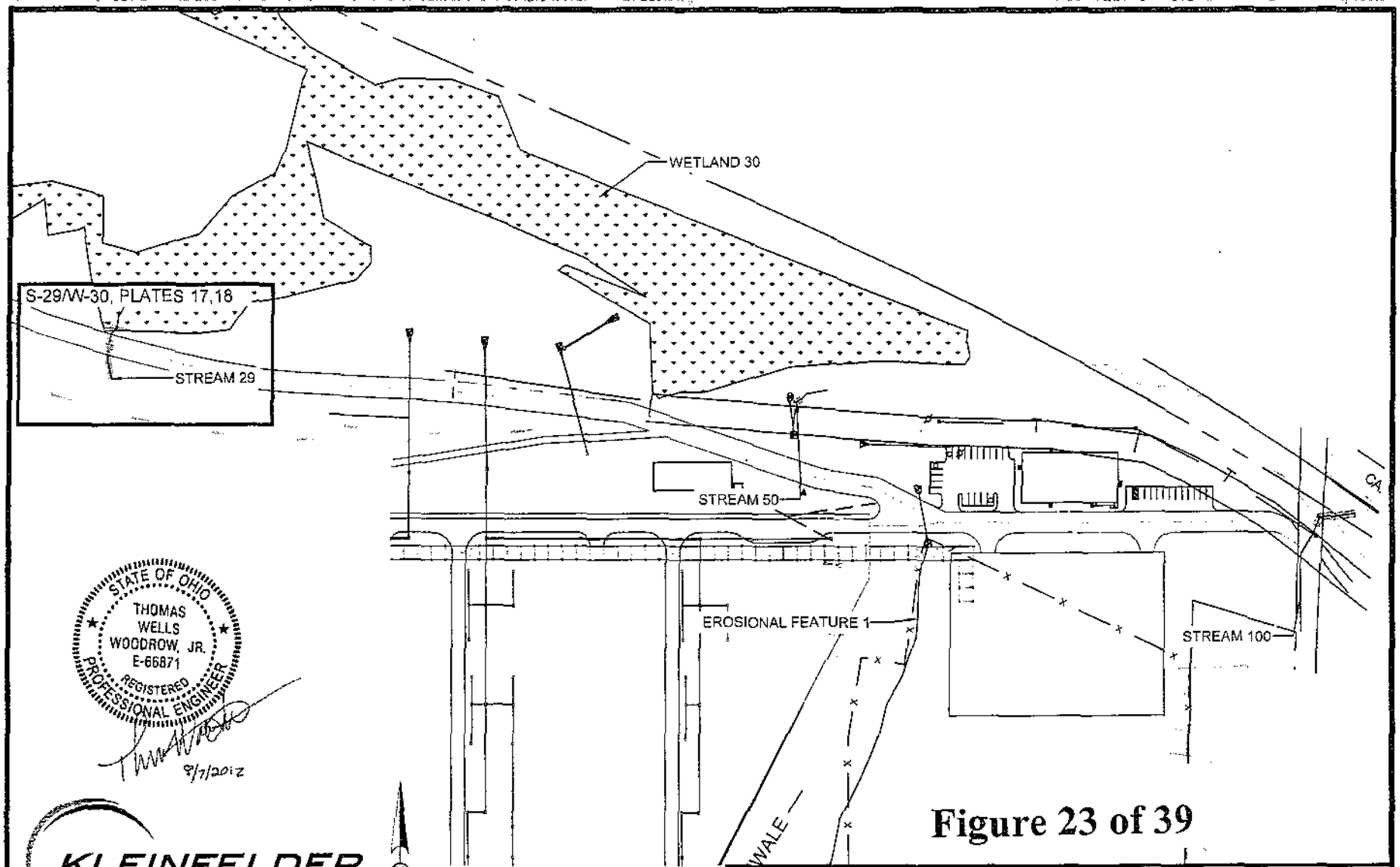

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Figure 23 of 39

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N

0 200 400
SCALE: 1" = 200' SCALE IN FEET

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PROJECT NO. 126187	PROPOSED PLAN PERMIT PLATE KEY MAP PERMIT PLATES	PLATE 3 of 18	
DATE: 08/06/2012			
REVISED:			
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	3	
CHECKED BY: AGB			

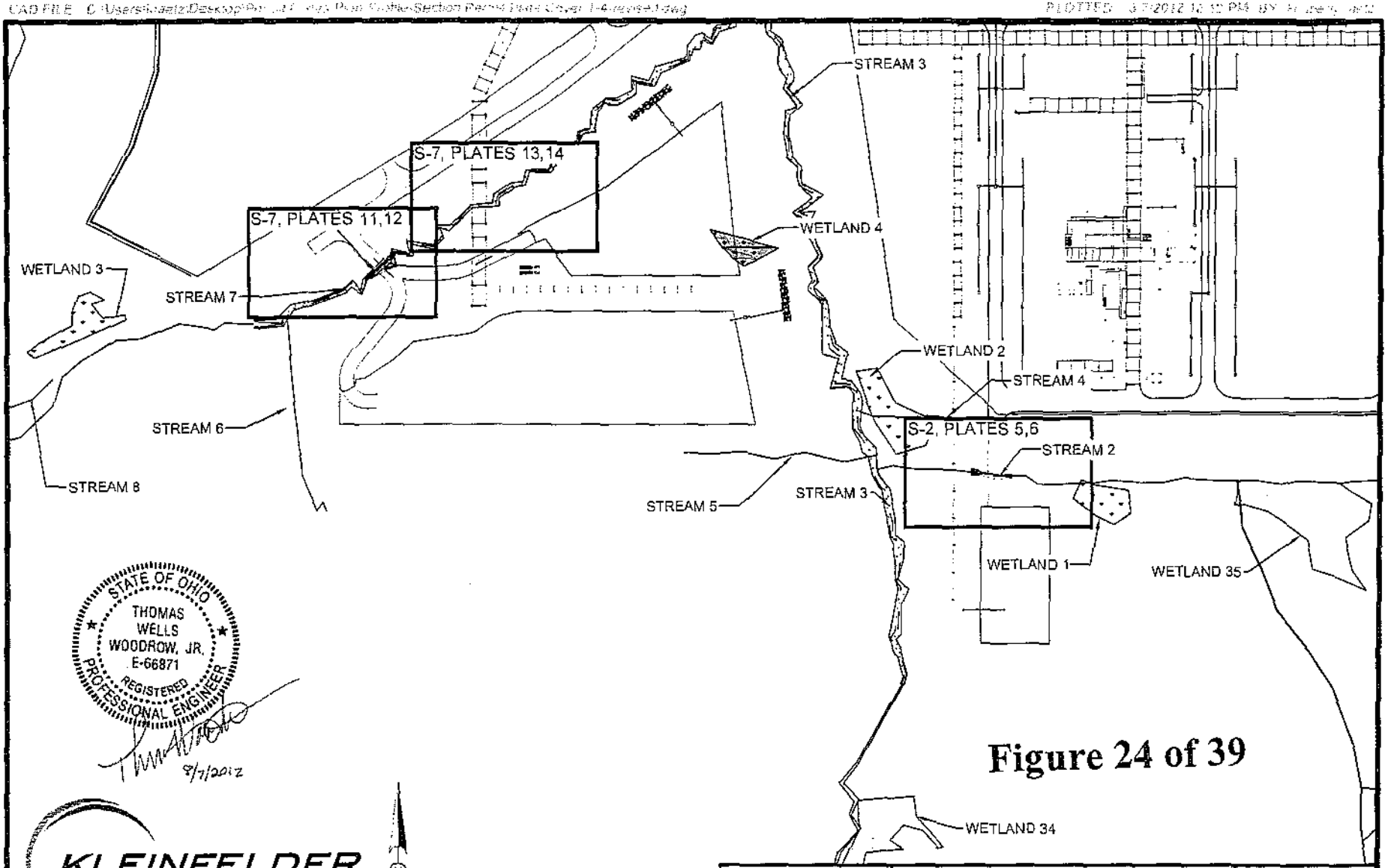

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Figure 24 of 39

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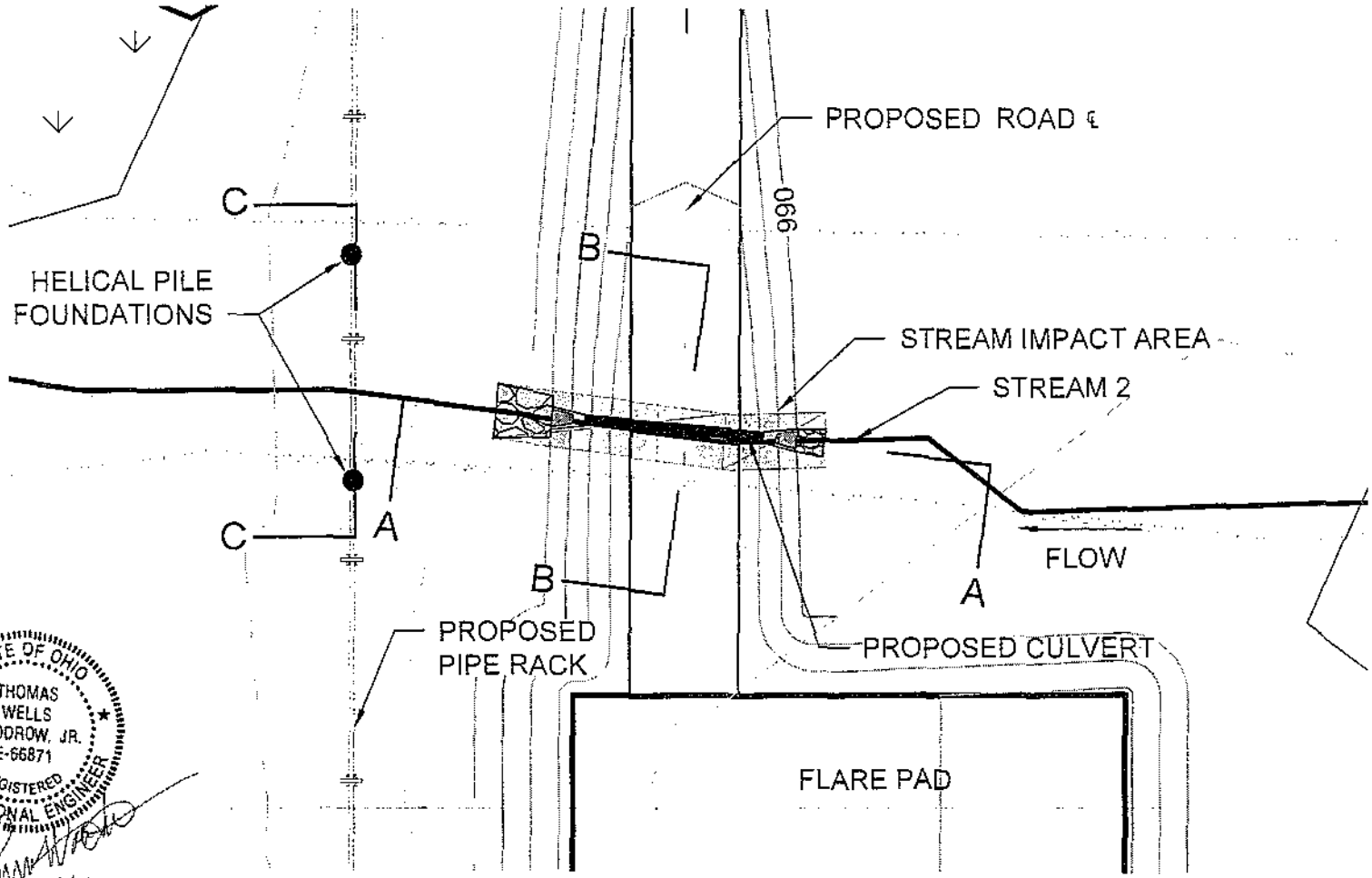
0 200 400
SCALE: 1" = 200' SCALE IN FEET

PROJECT NO. 126187	PROPOSED PLAN PERMIT PLATE KEY MAP PERMIT PLATES	PLATE 4 of 18	
DATE: 08/06/2012			
REVISED:			
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	4	
CHECKED BY: AGB			



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LINEAR IMPACT (LF) = 60
IMPACT AREA (ACRES) = 0.001

Figure 25 of 39

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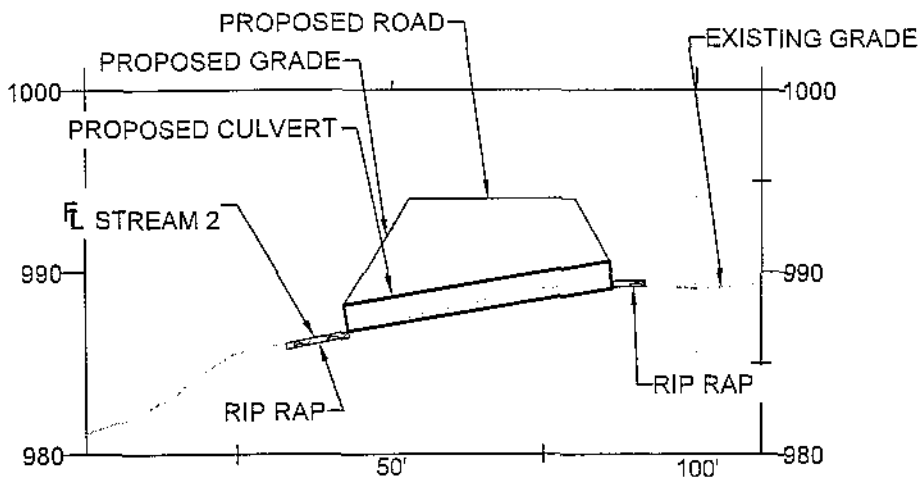
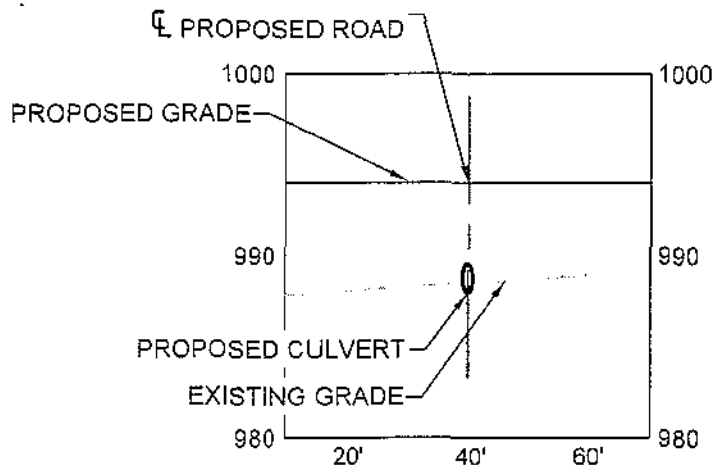
0 30 60
SCALE: 1" = 30' SCALE IN FEET

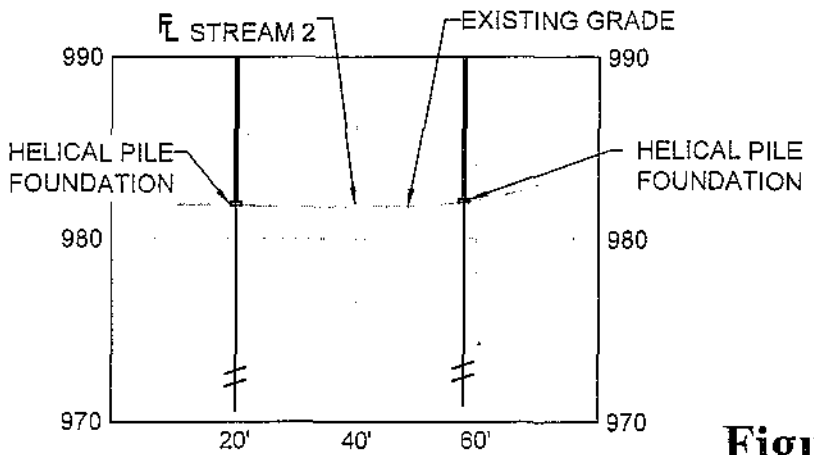
PROJECT NO. 126187	STREAM 2 PLAN VIEW PERMIT PLATES	PLATE 5 of 18
DATE: 08/06/2012		
REVISED:		S-2A
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		



SECTION A-A



SECTION B-B



SECTION C-C

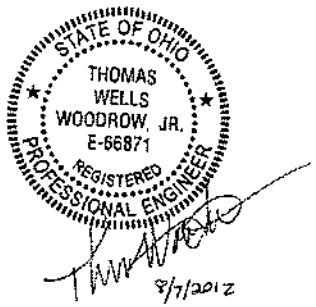


Figure 26 of 39

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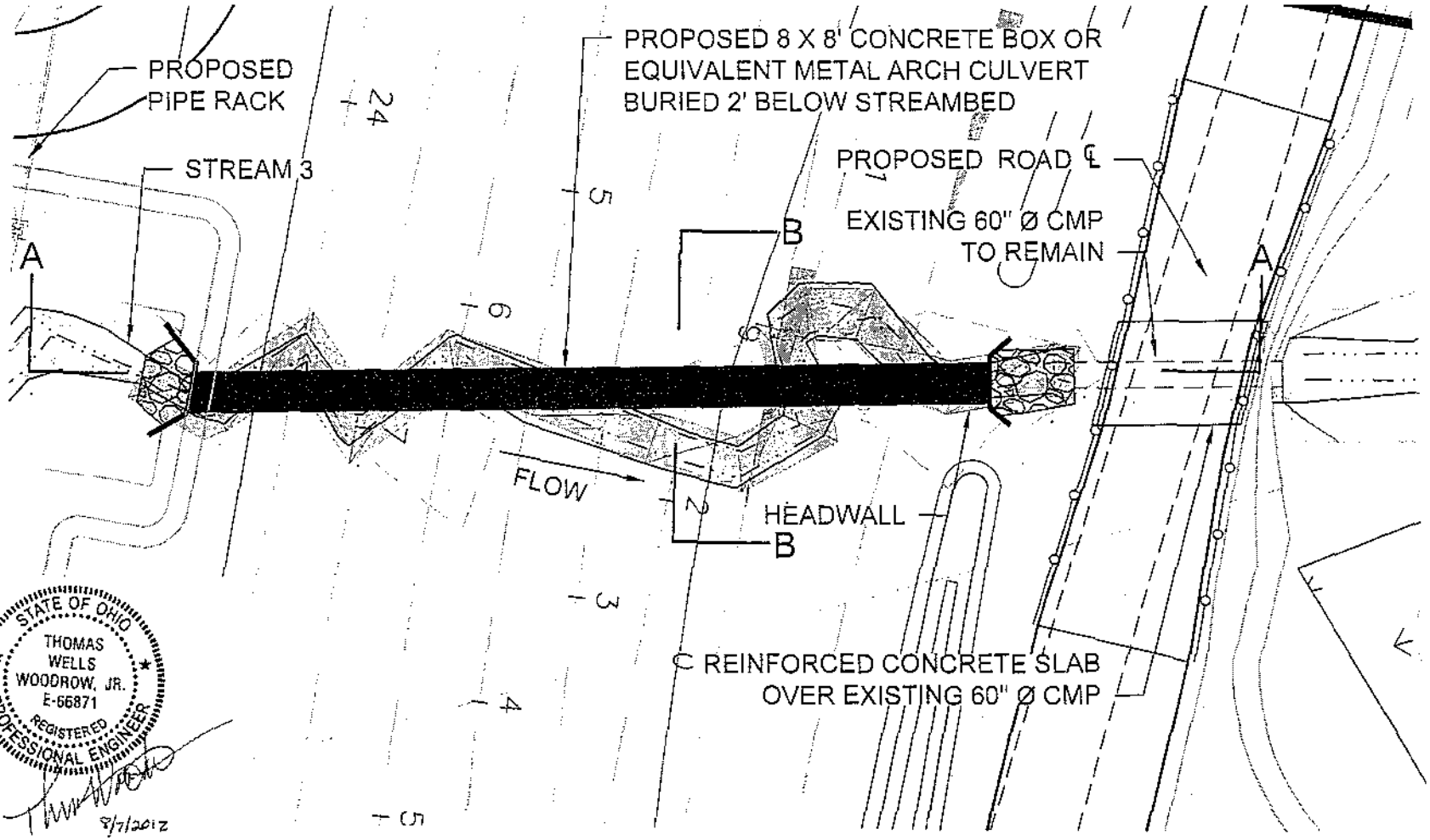
0 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

PROJECT NO. 126187	STREAM 2 SECTION VIEWS PERMIT PLATES	PLATE 6 of 18
DATE: 08/06/2012		
REVISED:		S-2B
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		



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LINEAR IMPACT (LF) = 235
IMPACT AREA (ACRES) = 0.054

Figure 27 of 39

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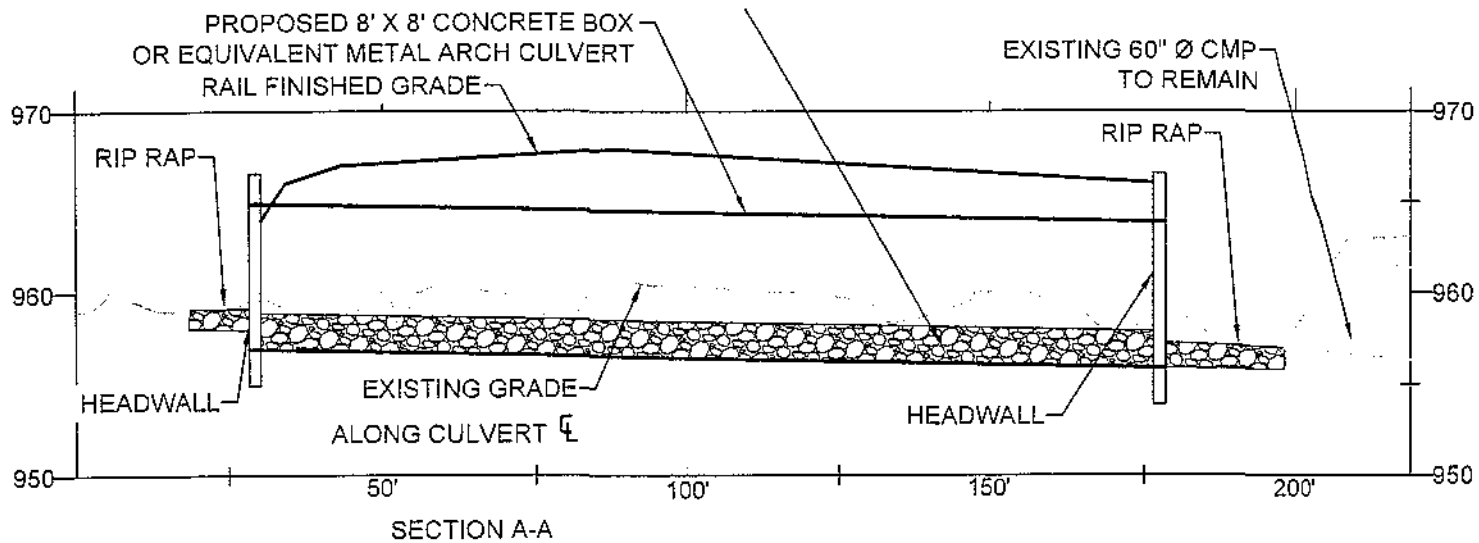
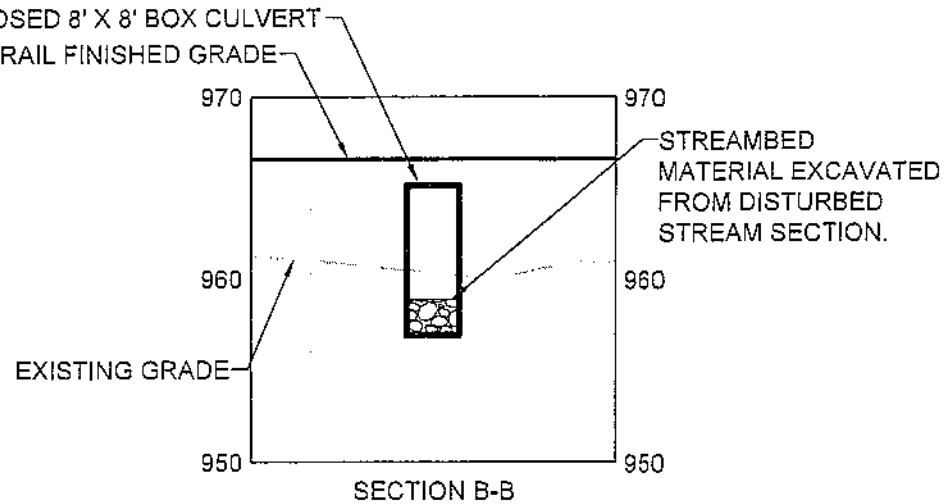
0 30 60
SCALE: 1" = 30' SCALE IN FEET

PROJECT NO. 126187	STREAM 3 PLAN VIEW PERMIT PLATES	PLATE 7 of 18
DATE: 08/06/2012		
REVISED:		S-3A1
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		



SECTION A-A



SECTION B-B

STATE OF OHIO
THOMAS WELLS WOODROW, JR.
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8/7/2012

Figure 28 of 39

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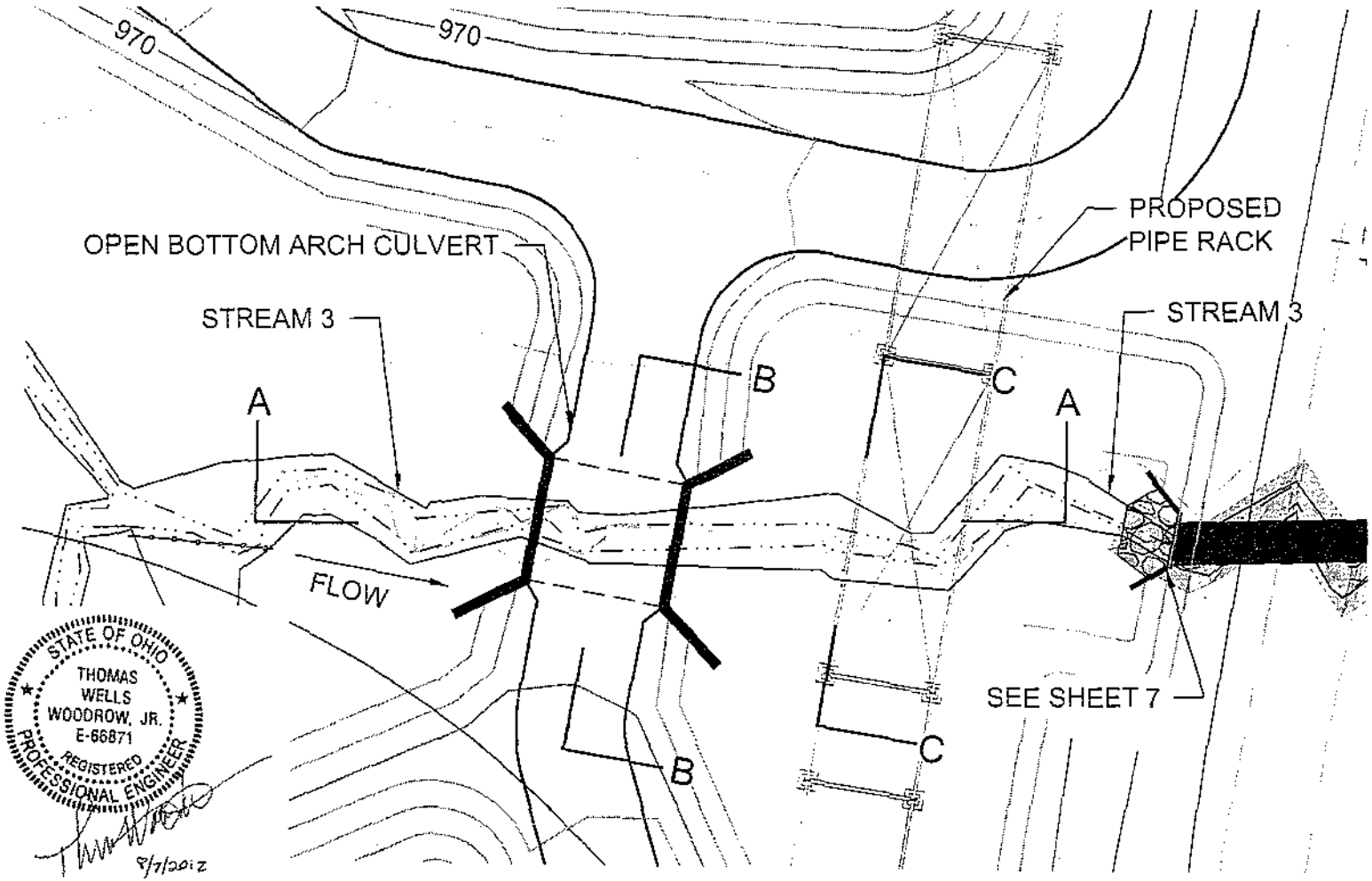
0 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

PROJECT NO. 126187	STREAM 3 SECTION VIEWS PERMIT PLATES	PLATE 8 of 18
DATE: 08/06/2012		
REVISED: -		S-3B1
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		



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LINEAR IMPACT (LF) = 0
IMPACT AREA (ACRES) = 0

Figure 29 of 39

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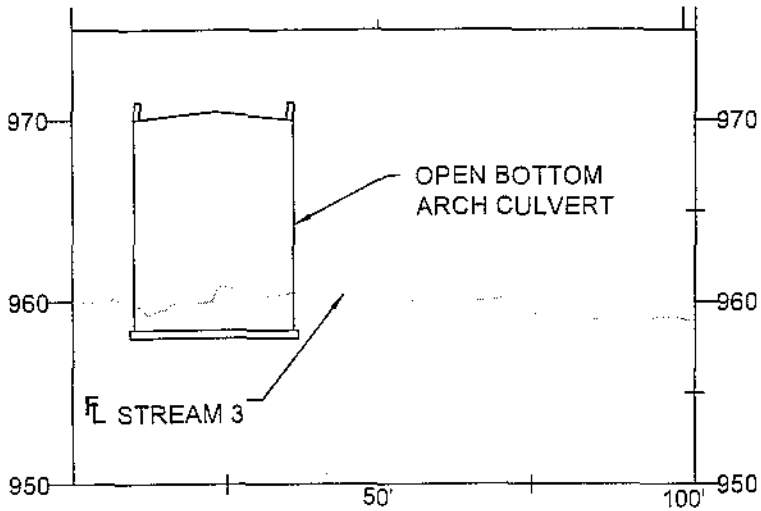
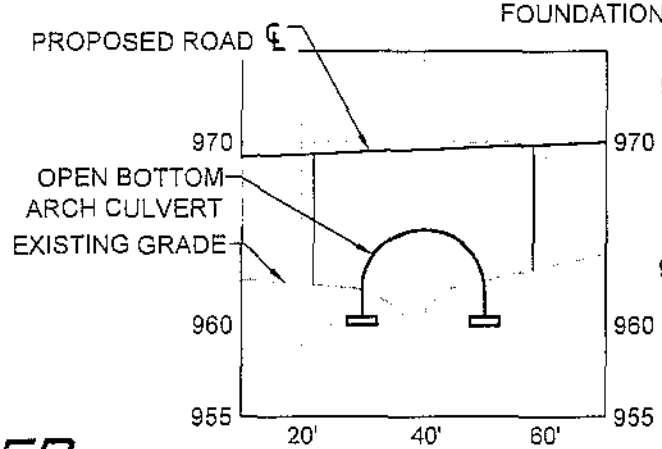
0 30 60
SCALE: 1" = 30' SCALE IN FEET

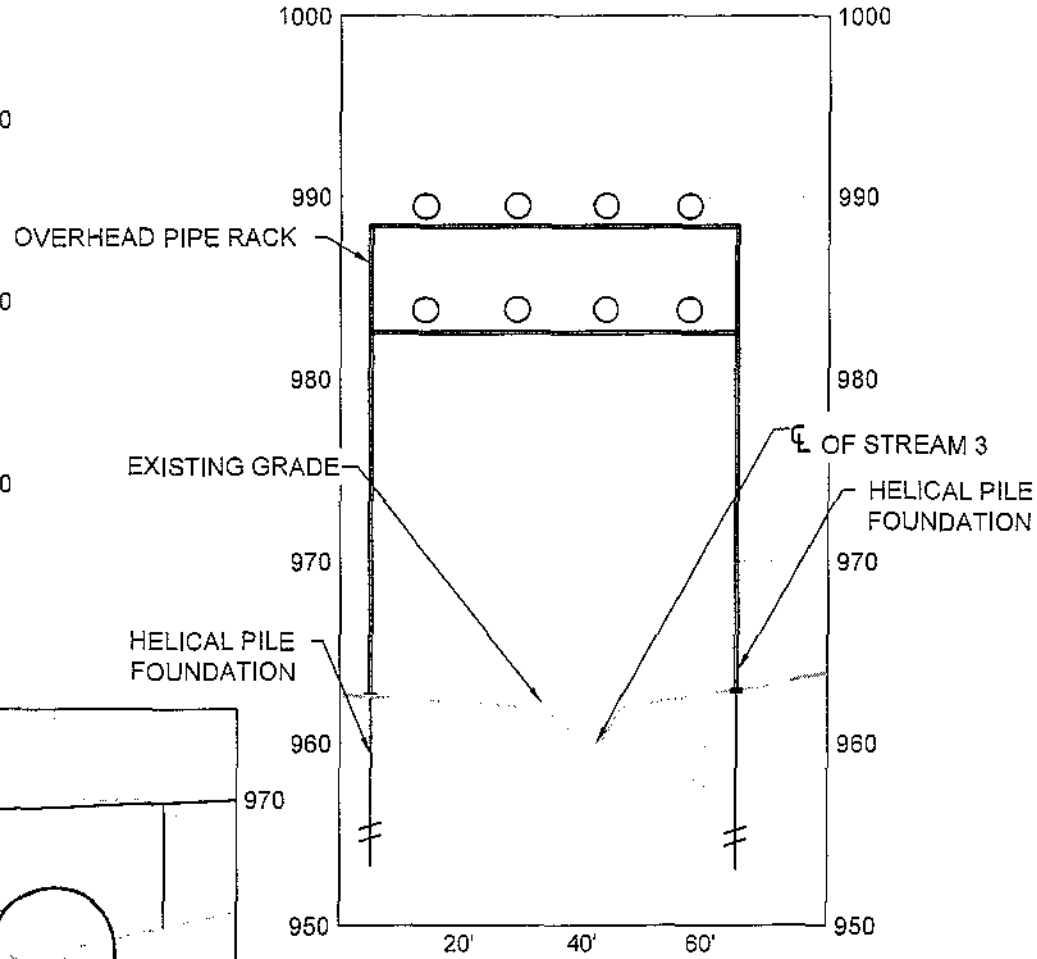
PROJECT NO. 126187	STREAM 3 PLAN VIEW PERMIT PLATES	PLATE 9 of 18
DATE: 08/06/2012		
REVISED: .		
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	S-3A2
CHECKED BY: AGB		



SECTION A-A



SECTION B-B



SECTION C-C

Figure 30 of 39

STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
REGISTERED PROFESSIONAL ENGINEER
8/7/2012

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0 30 60
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

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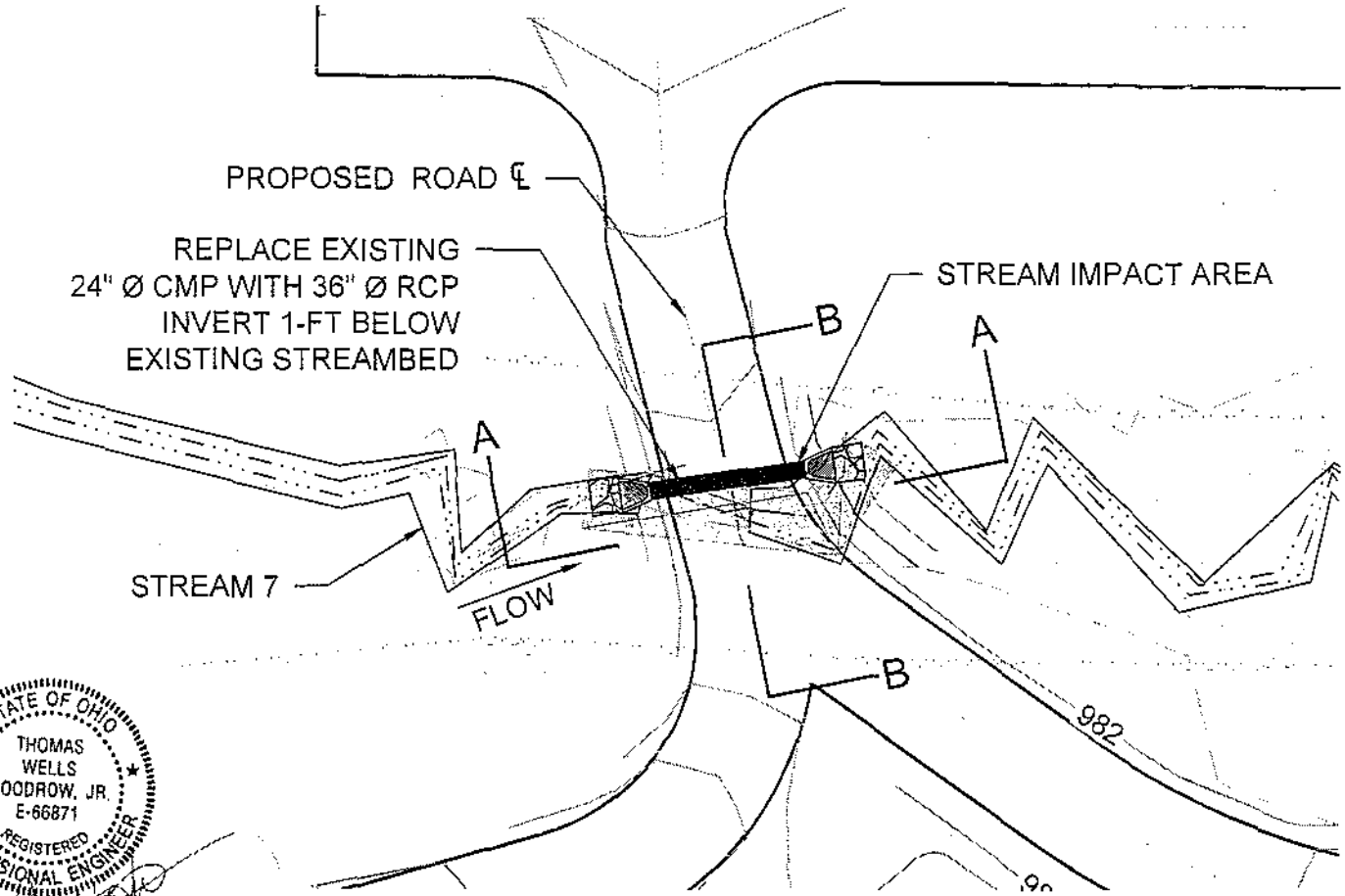
PROJECT NO. 126187	STREAM 3 SECTION VIEWS PERMIT PLATES	PLATE 10 of 18	
DATE: 08/06/2012			
REVISED: .			
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	S-3B2	
CHECKED BY: AGB			



STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
REGISTERED PROFESSIONAL ENGINEER
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LINEAR IMPACT (LF) = 55
IMPACT AREA (ACRES) = 0.006

Figure 31 of 39

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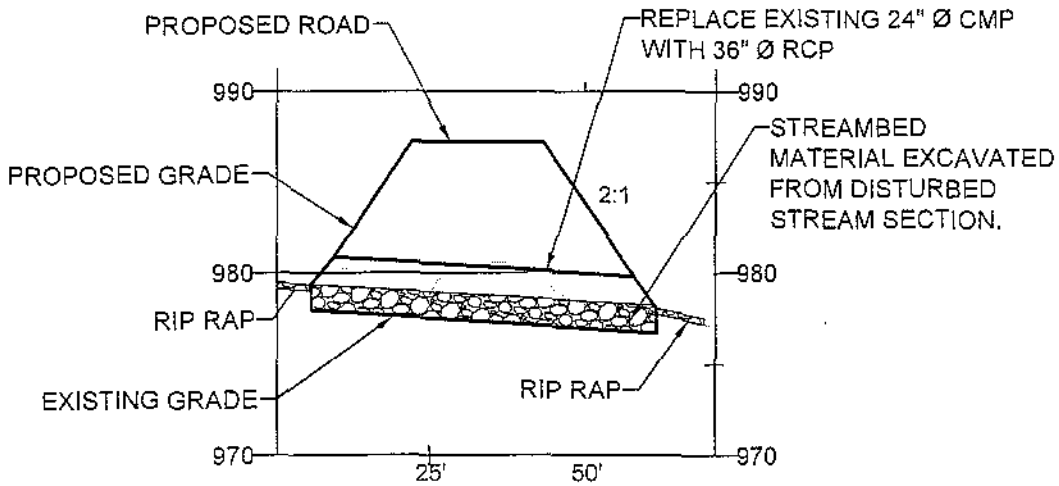
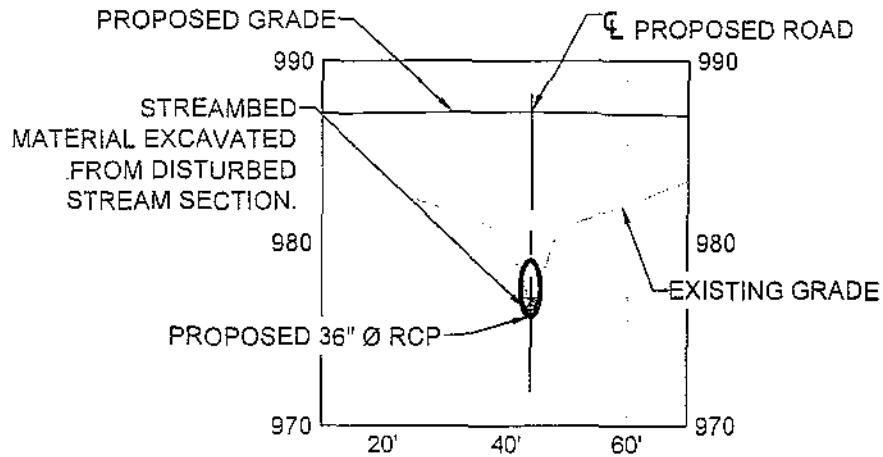
0 30 60
SCALE: 1" = 30' SCALE IN FEET

PROJECT NO. 126187	STREAM 7 PLAN VIEW PERMIT PLATES	PLATE 11 of 18
DATE: 08/06/2012		
REVISED: .		S-7A1
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		



SECTION A-A



SECTION B-B

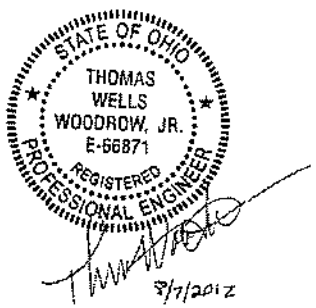


Figure 32 of 39

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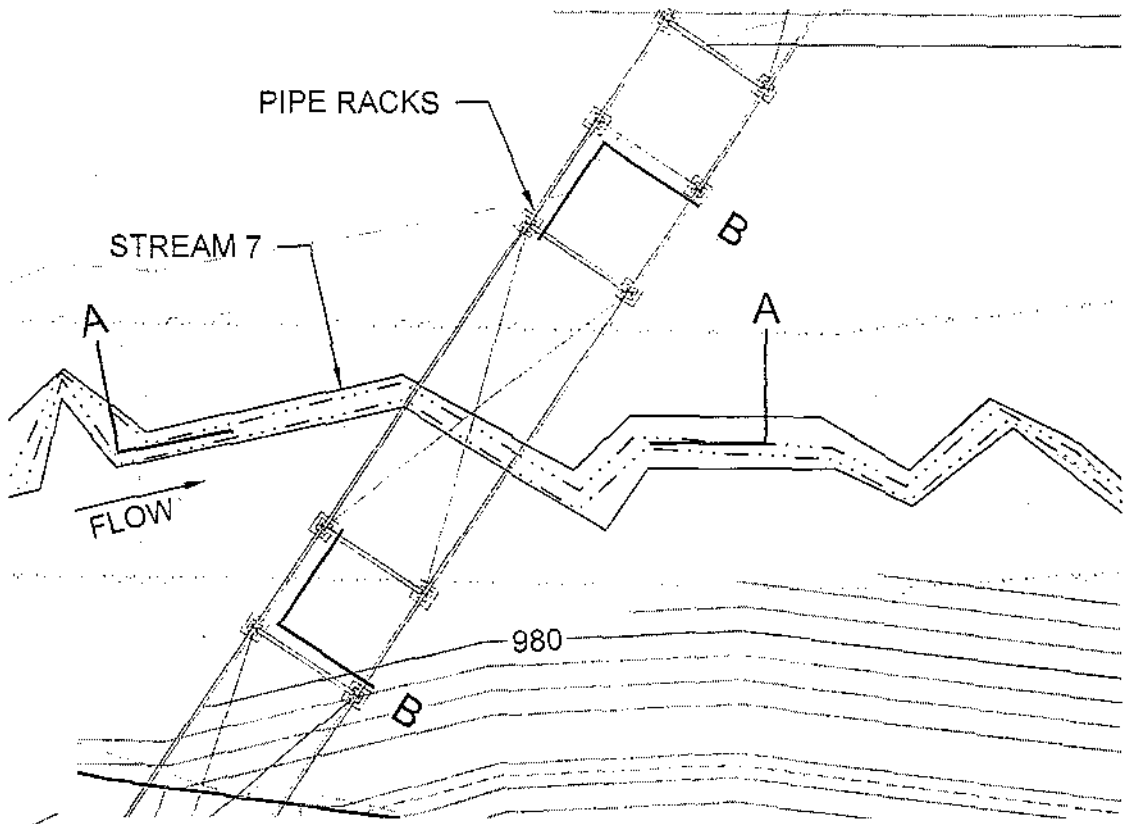
0 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

PROJECT NO. 126187	STREAM 7 SECTION VIEWS PERMIT PLATES	PLATE 12 of 18
DATE: 08/06/2012		
REVISED:		S-7B1
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		



STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
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LINEAR IMPACT (LF) = 0
IMPACT AREA (ACRES) = 0

Figure 33 of 39

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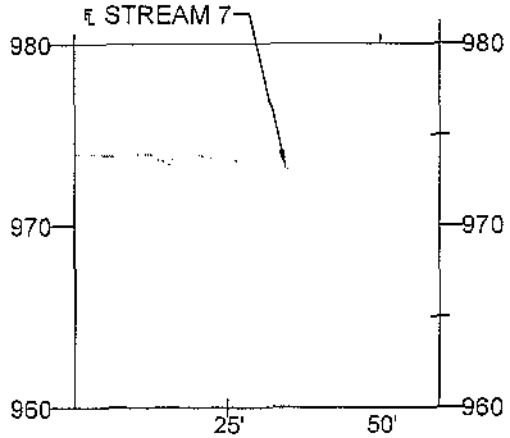
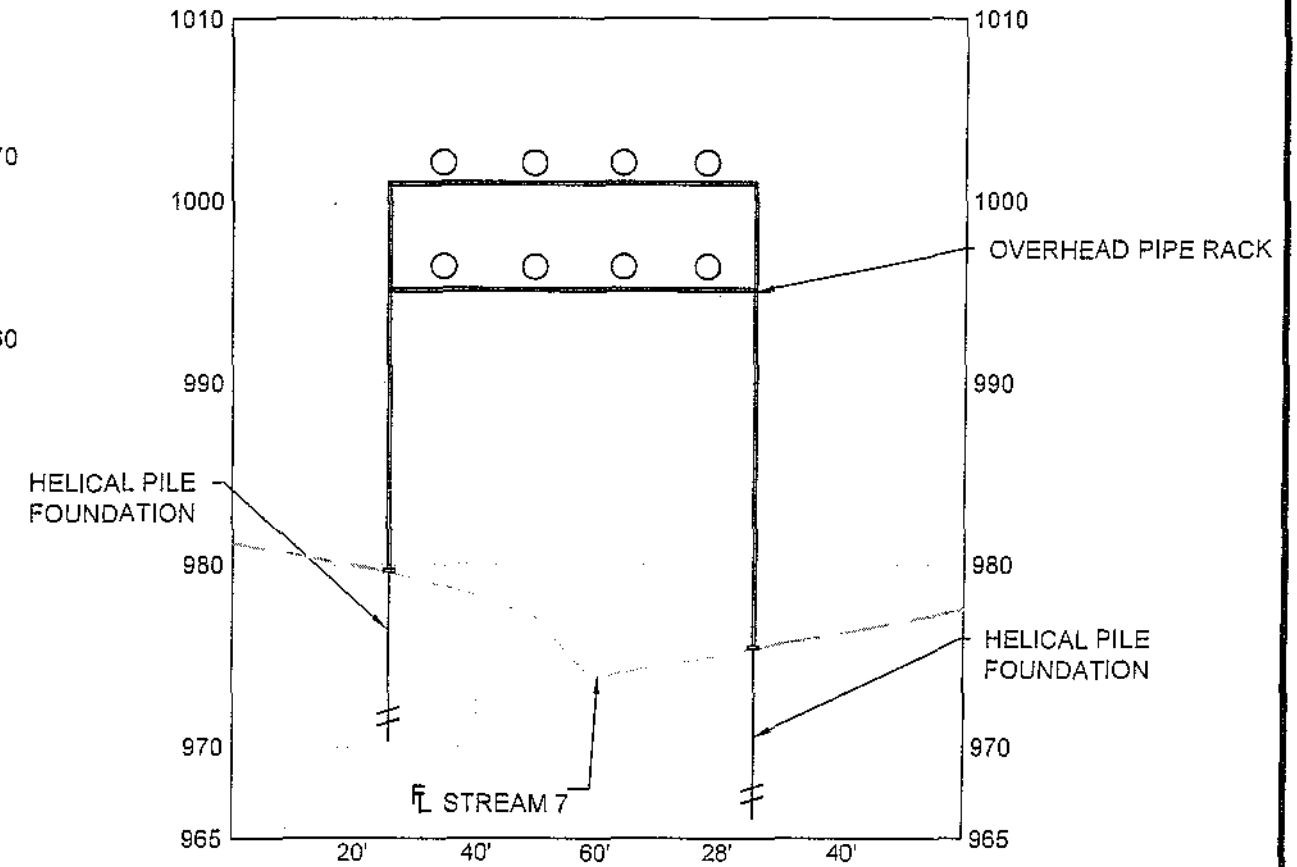
0 30 60
SCALE: 1" = 30' SCALE IN FEET

PROJECT NO. 126187	STREAM 7 PLAN VIEW PERMIT PLATES	PLATE 13 of 18
DATE: 08/06/2012		
REVISED:		
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	S-7A2
CHECKED BY: AGB		



SECTION A-A



SECTION B-B

Figure 34 of 39

STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
REGISTERED PROFESSIONAL ENGINEER
8/7/2012

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0 30 60
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

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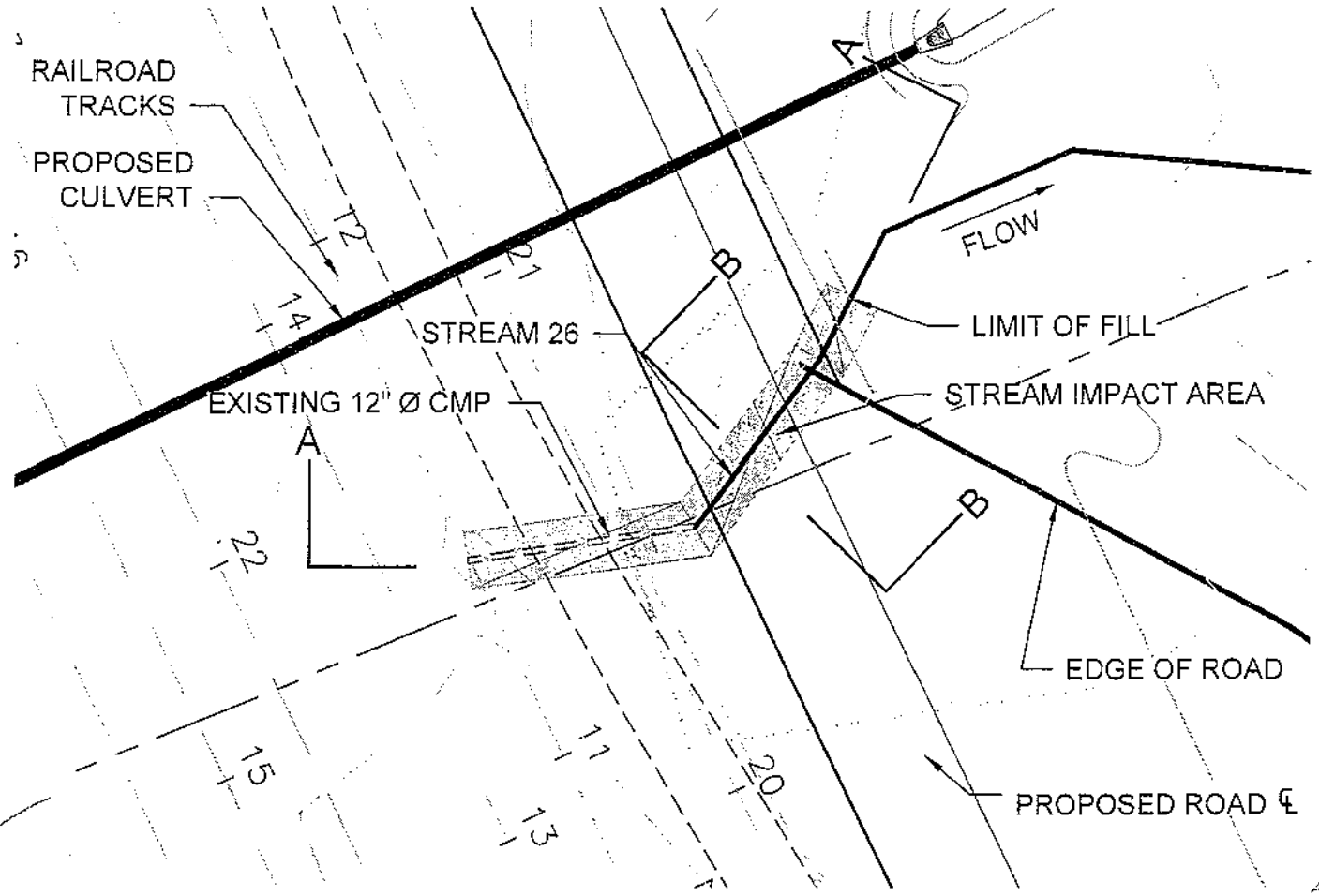
PROJECT NO. 126187	STREAM 7 SECTION VIEWS PERMIT PLATES	PLATE 14 of 18
DATE: 08/06/2012		
REVISED:		S-7B2
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		



STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
REGISTERED PROFESSIONAL ENGINEER
8/7/2012

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LINEAR IMPACT (LF) = 91
IMPACT AREA (ACRES) = 0.004

Figure 35 of 39

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

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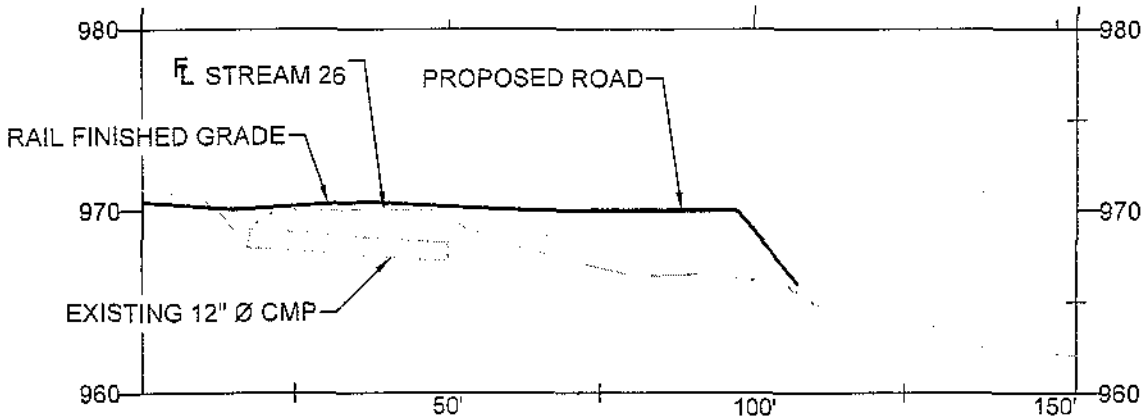
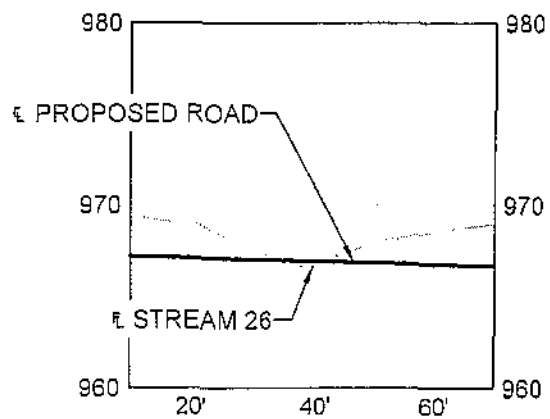
PROJECT NO. 126187	STREAM 26 PLAN VIEW PERMIT PLATES	PLATE 15 of 18
DATE: 08/06/2012		
REVISED:		S-26A
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		



SECTION A-A



SECTION B-B

STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
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Figure 36 of 39

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0 30 60
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

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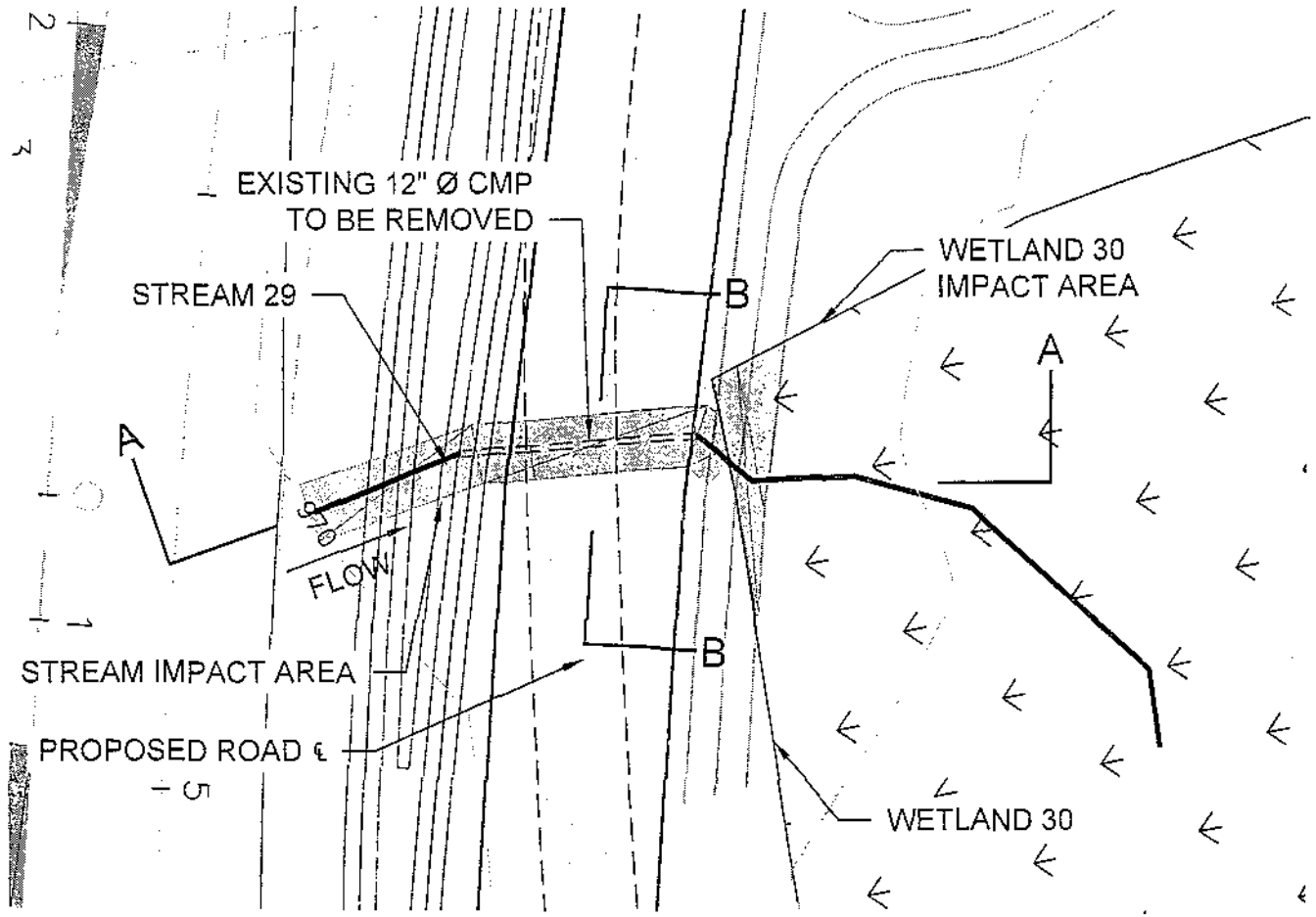
PROJECT NO. 126187	STREAM 26 SECTION VIEWS PERMIT PLATES	PLATE 16 of 18
DATE: 08/06/2012		
REVISED:		S-26B
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	
CHECKED BY: AGB		

Figure 37 of 39



STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
REGISTERED PROFESSIONAL ENGINEER
8/7/2012

STREAM 29
LINEAR IMPACT (LF) = 74
IMPACT AREA (ACRES) = 0.003

WETLAND 30
IMPACT AREA (ACRES) = 0.006

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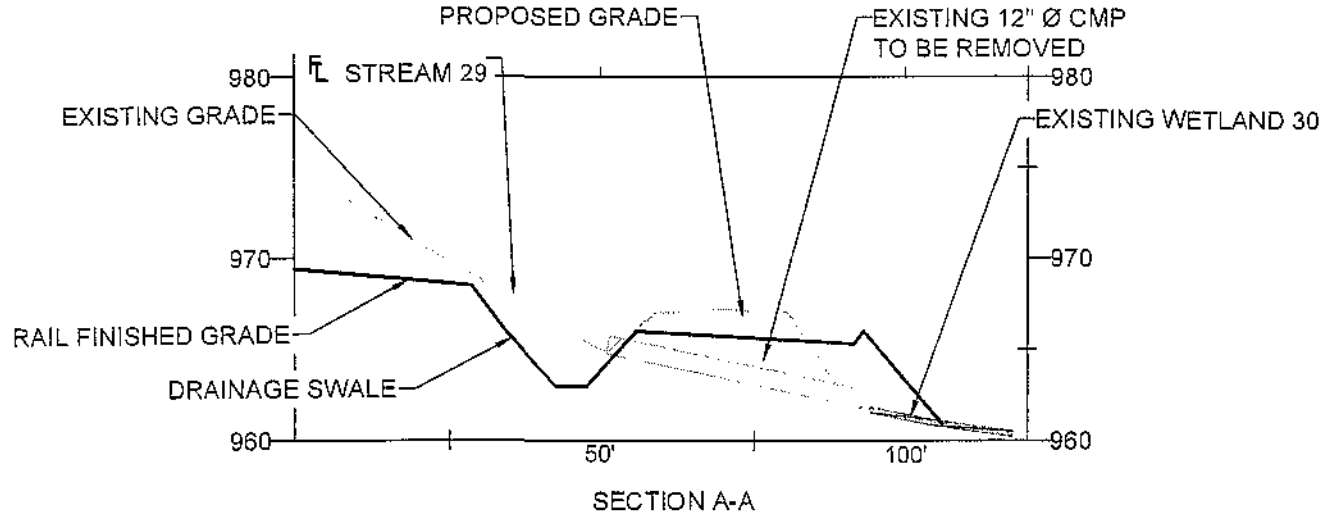
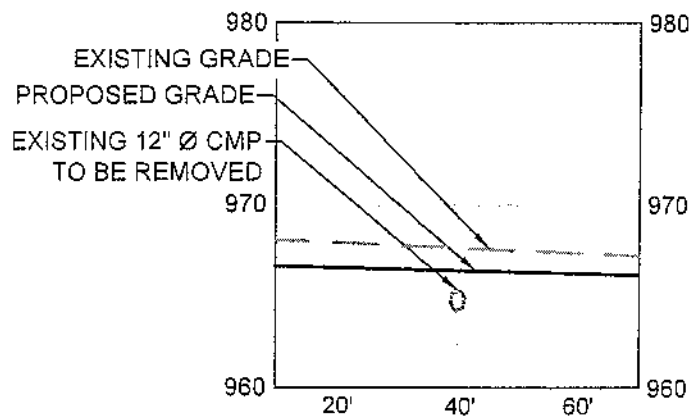
0 30 60
SCALE: 1" = 30' SCALE IN FEET

PROJECT NO. 126187	STREAM 29 & WETLAND 30-1 PLAN VIEW PERMIT PLATES	PLATE 17 of 18
DATE: 08/06/2012		S-29A
REVISED:		
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	W-30A
CHECKED BY: AGB		



SECTION A-A



SECTION B-B

STATE OF OHIO
THOMAS WELLS WOODROW, JR.
E-66871
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Figure 38 of 39

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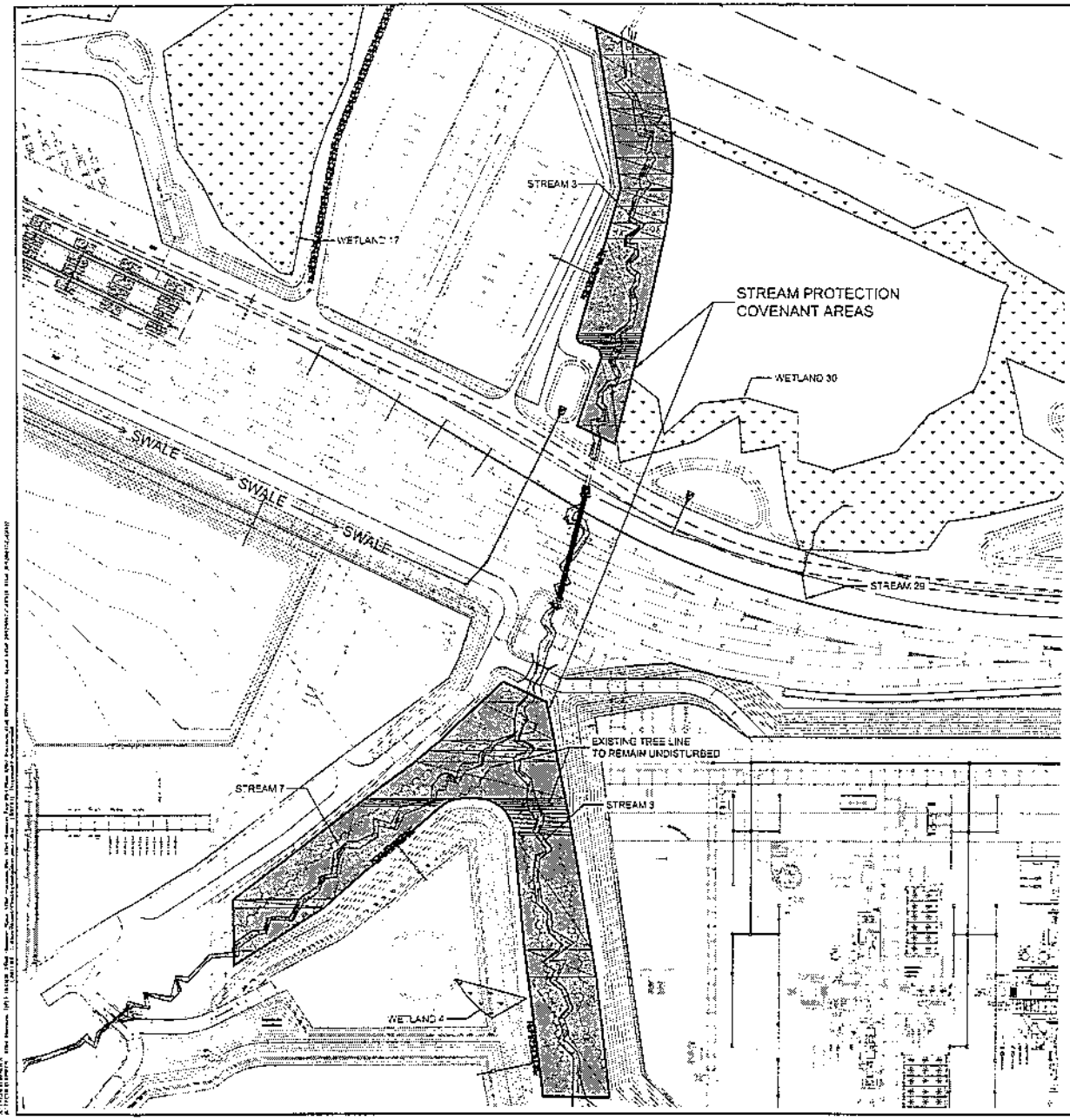
0 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

PROJECT NO. 126187	STREAM 29 & WETLAND 30-1 SECTION VIEWS PERMIT PLATES	PLATE 18 of 18
DATE: 08/06/2012		S-29B
REVISED:		
DRAWN BY: KSR	UTICA EAST OHIO MIDSTREAM, L.L.C. HARRISON FACILITY HARRISON COUNTY NORTH TOWNSHIP, OHIO	W-30B
CHECKED BY: AGB		



HARRISON FACILITY STREAM IMPACTS		
STREAM NAME	IMPACT (LINEAR FEET)	PERMIT PLATE SHEET NUMBER
STREAM 2	60	5
STREAM 3	235	7
STREAM 7	55	11
STREAM 26	91	15
STREAM 29	72	17
TOTAL LENGTH*	513	

TOTAL LENGTH* OF STREAM IMPACT = 513 LF
TOTAL LENGTH* OF STREAM PROTECTION COVENANT = 2,045 LF

* ALL LENGTHS ARE MEASURED ALONG STREAM THALWEG.

Figure 39 of 39

150 75 0 150
SCALE: 1 INCH=150 FEET

NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			

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STREAM MITIGATION/
ENVIRONMENTAL COVENANT AREAS

UTICA EAST OHIO MIDSTREAM LLC
HARRISON FACILITY
NORTH TOWNSHIP
HARRISON COUNTY
OHIO

DESIGNED BY:
MODIFIED BY:
CHECKED BY:
DATE:
SCALE:

EXHIBIT 4