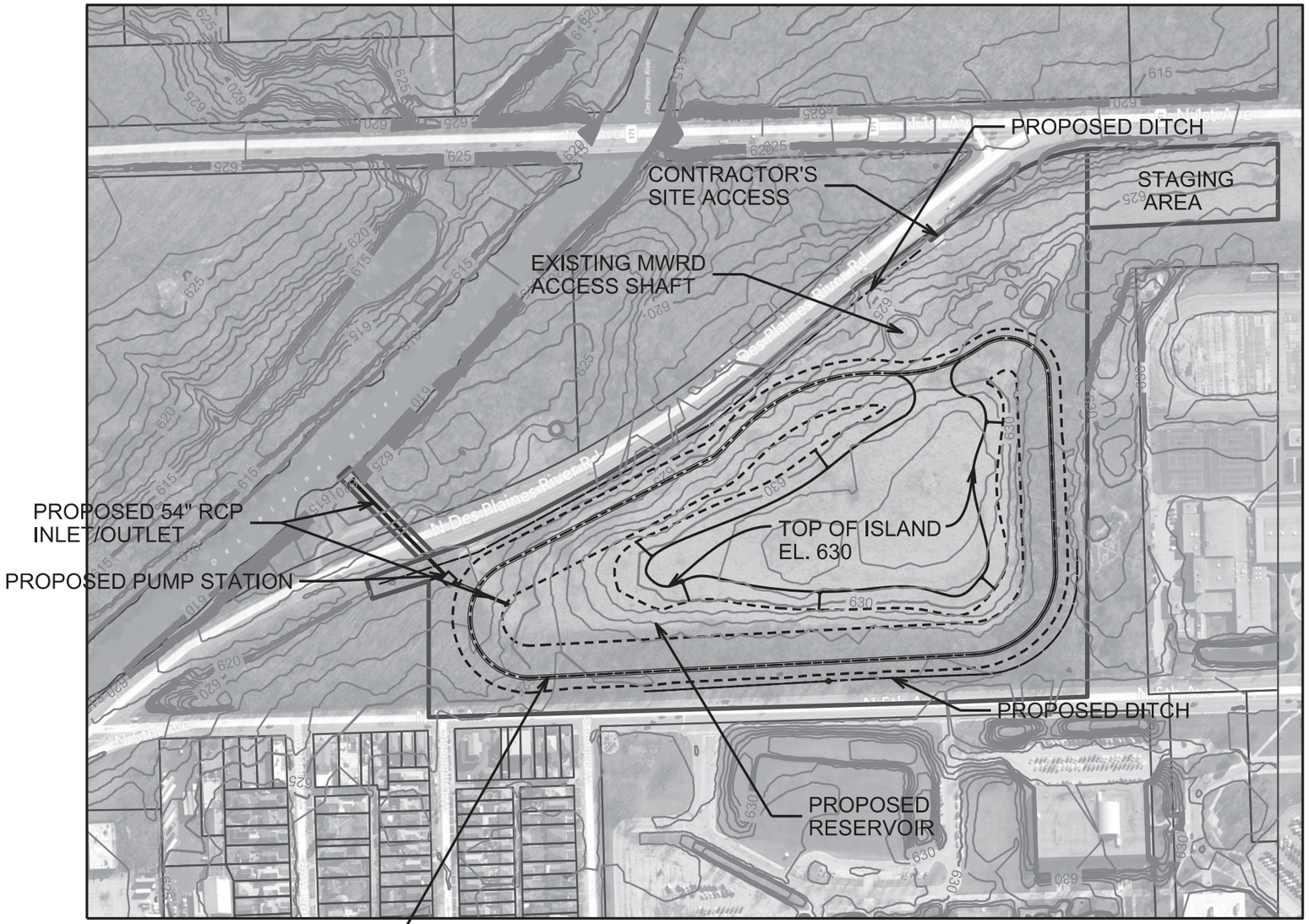


RESERVOIR DATA

TOP AREA = 16.5 AC
BOTTOM OF RESERVOIR EL. = 611.5
STORAGE = 150 AC-FT DESIGN VOLUME (100-YR)
200 AC-FT VOLUME (100-YR + 3FT FREEBOARD)

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM LOCAL GIS DATA AND REPRESENT CONDITIONS AT THAT TIME. REFER TO THE CIVIL APPENDIX FOR THE SURVEY DATA SOURCES.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLAN COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD) US FEET.

4. THE EXISTING MWRD ACCESS SHAFT SHALL BE PROTECTED.

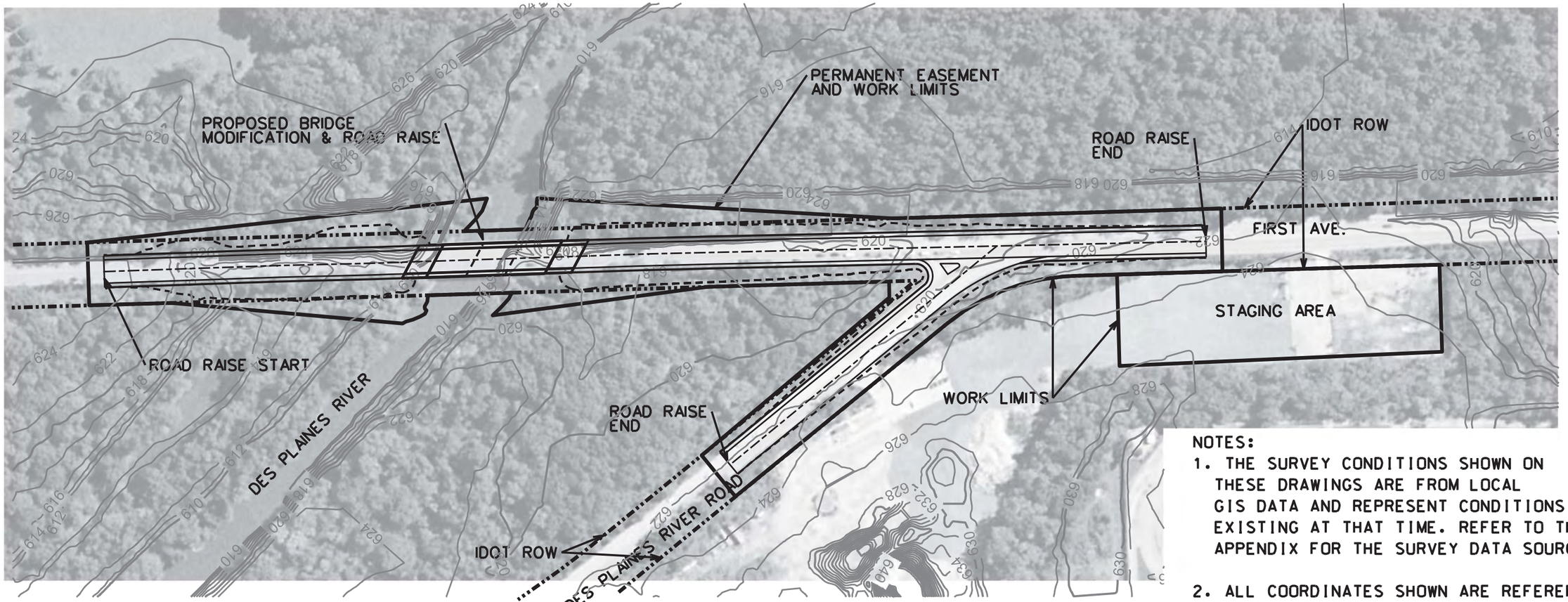
0 300' 600'

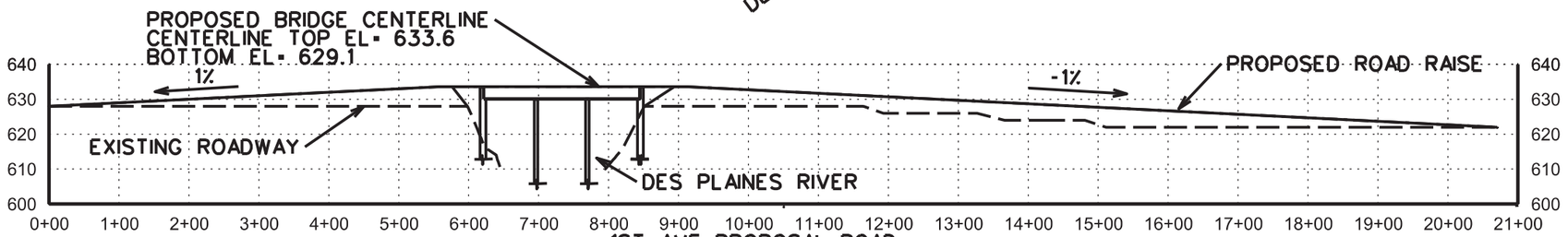
U.S. Army Corps of Engineers Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIRONMENTAL ASSESSMENT

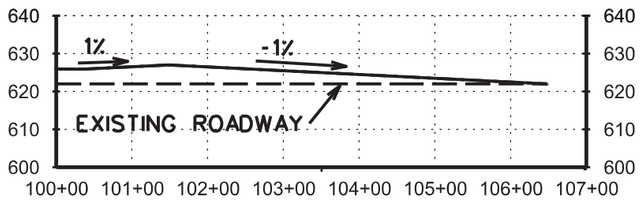
DPRS04 RESERVOIR CONCEPTUAL SITE PLAN RIVER GROVE, IL

SCALE:	DATE:	DRAWING CODE:
1" = 300'	MAR 2014	DPRS04_Siteplan.DGN

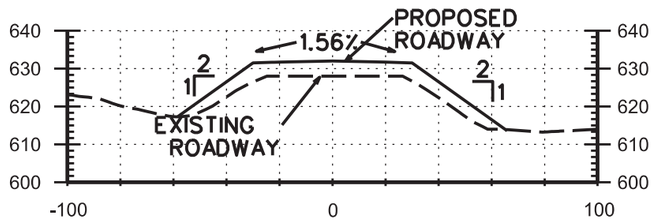




1ST AVE PROPOSAL ROAD
RAISE CENTERLINE PROFILE
VERTICAL SCALE: 1IN = 40 FT



RIVER ROAD PROPOSED ROAD RAISE CENTERLINE PROFILE
VERTICAL SCALE: 1IN = 40FT



PROPOSED ROAD RAISE TYPICAL SECTION
NTS

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM LOCAL GIS DATA AND REPRESENT CONDITIONS EXISTING AT THAT TIME. REFER TO THE CIVIL APPENDIX FOR THE SURVEY DATA SOURCES.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.)

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.

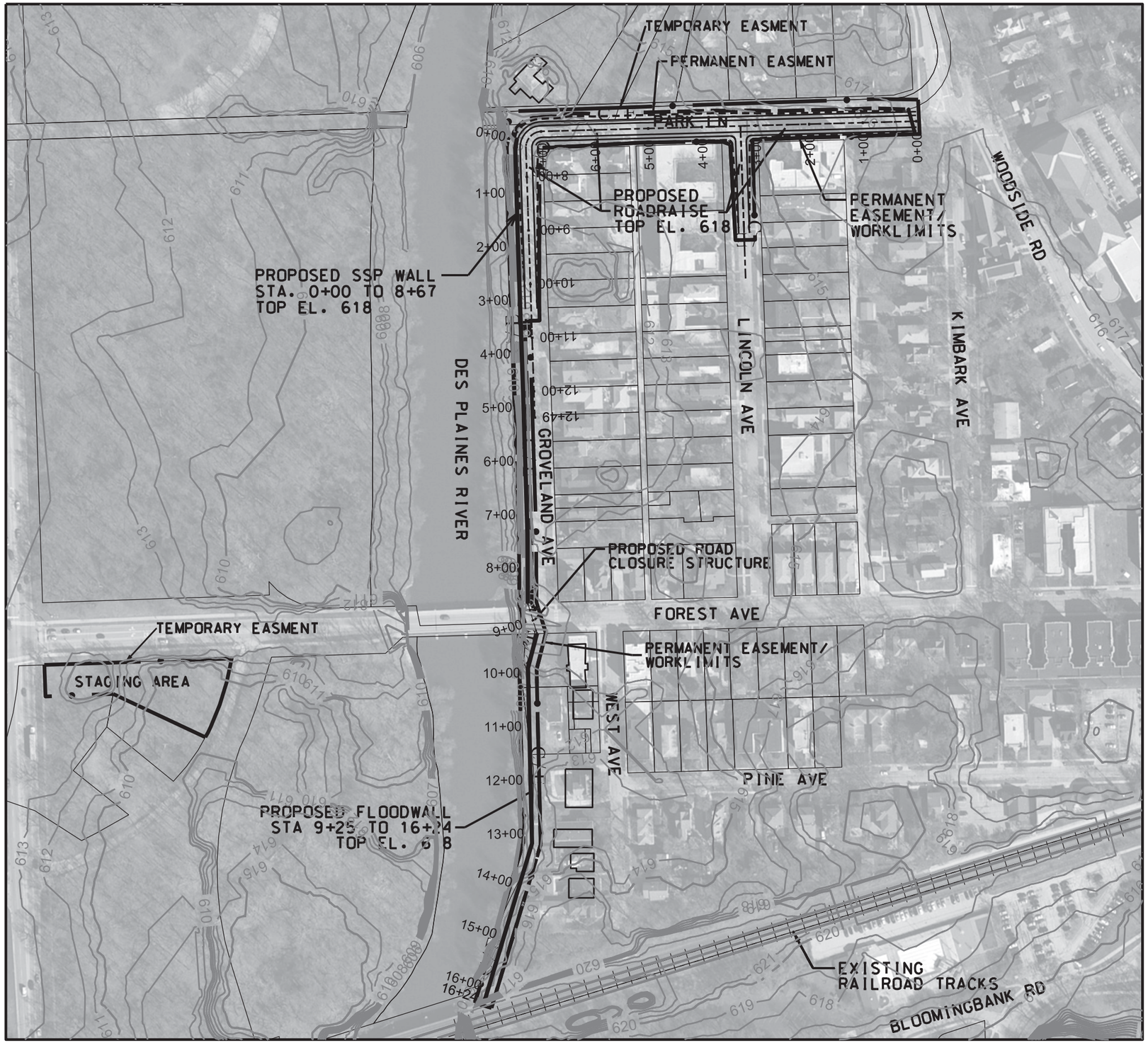
0 200 400

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER
AND TRIBUTARIES
FEASIBILITY REPORT AND
ENVIRONMENT ASSESSMENT

DPBM04 BRIDGE & ROAD RAISE
CONCEPTUAL SITE PLAN
RIVER GROVE, IL

SCALE:	DATE:	DRAWING CODE:
AS-SHOWN	MAR 2014	DPBM04_Siteplan.dgn



NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM LOCAL GIS DATA AND REPRESENT CONDITIONS EXISTING AT THAT TIME.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.

4. STEEL SHEET PILE WILL BE DRIVEN INTO THE EXISTING LEVEE ALONG GROVELAND AVE. TO RAISE THE TOP ELEVATION TO 618. THE LENGTH OF SHEET PILE IS 867 LF.

5. THE PROPOSED FLOODWALL ON THE SOUTH SIDE OF FOREST AVE HAS A LENGTH OF 699 LF AND TOP ELEVATION OF 618.

6. THE PROPOSED ROADRAISE HAS A TOP ELEVATION OF 618 AND SIDE SLOPES OF 1(V):2(H).

7. ONE ROAD CLOSURE STRUCTURE WILL BE REQUIRED AT FOREST AVE TO CONTINUE THE LINE OF FLOOD PROTECTION.

N

200' 100' 0 200'

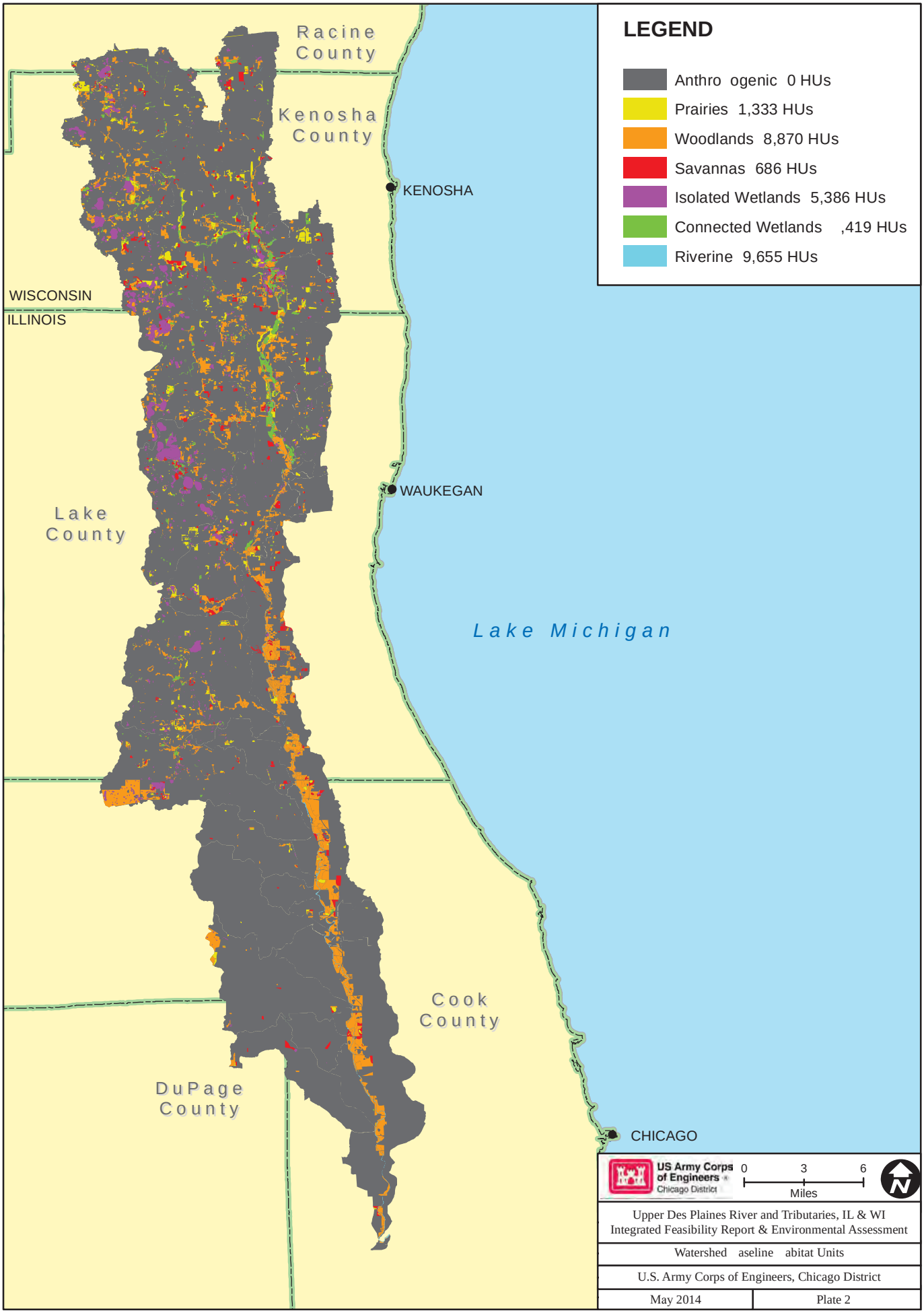
SCALE: 1'' = 200'-0"

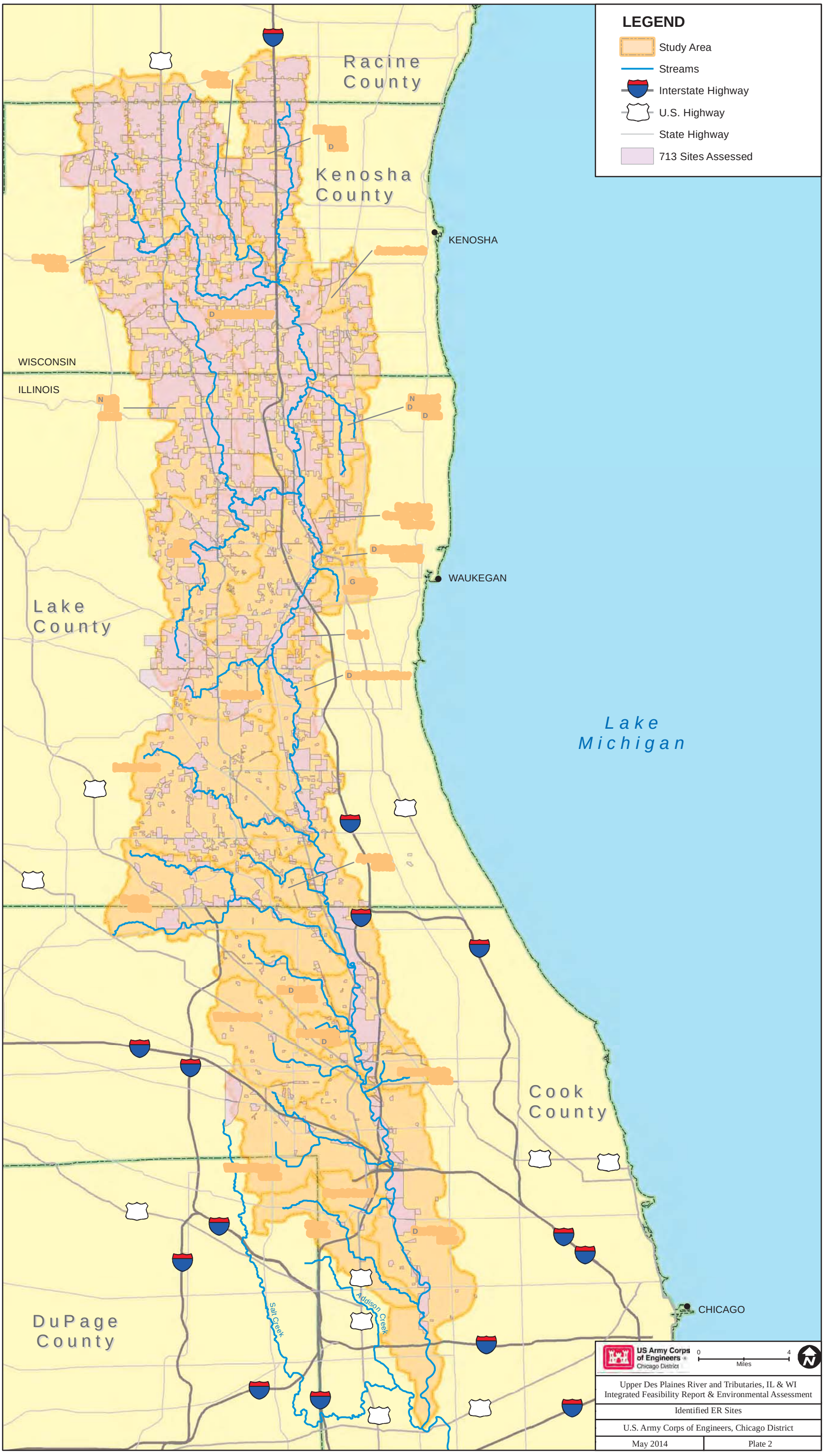
U.S. Army Corps of Engineers Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIRONMENT ASSESSMENT

DPLV01 FLOODWALL
CONCEPTUAL SITE PLAN
RIVERSIDE . COOK COUNTY. IL

SCALE:	DATE:	DRAWING CODE:
1" = 200'	MAR 2014	DPLV01_Siteplan.dgn


LEGEND
Anthro ogenic 0 HUs
Prairies 1,333 HUs
Woodlands 8,870 HUs
Savannas 686 HUs
Isolated Wetlands 5,386 HUs
Connected Wetlands ,419 HUs
Riverine 9,655 HUs
Racine County
Kenosha County
KENOSHA
WISCONSIN
ILLINOIS
WAUKEGAN
Lake County
Lake Michigan
Cook County
DuPage County
CHICAGO
US Army Corps of Engineers
Chicago District
0
3
6
Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Watershed aseline abitat Units
U.S. Army Corps of Engineers, Chicago District
May 2014
Plate 2


LEGEND
Study Area
Streams
Interstate Highway
U.S. Highway
State Highway
713 Sites Assessed
Racine County
Kenosha County
Lake County
DuPage County
Cook County
KENOSHA
WAUKEGAN
CHICAGO
WISCONSIN
ILLINOIS
Lake Michigan
Salt Creek
Addison Creek
US Army Corps of Engineers
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0
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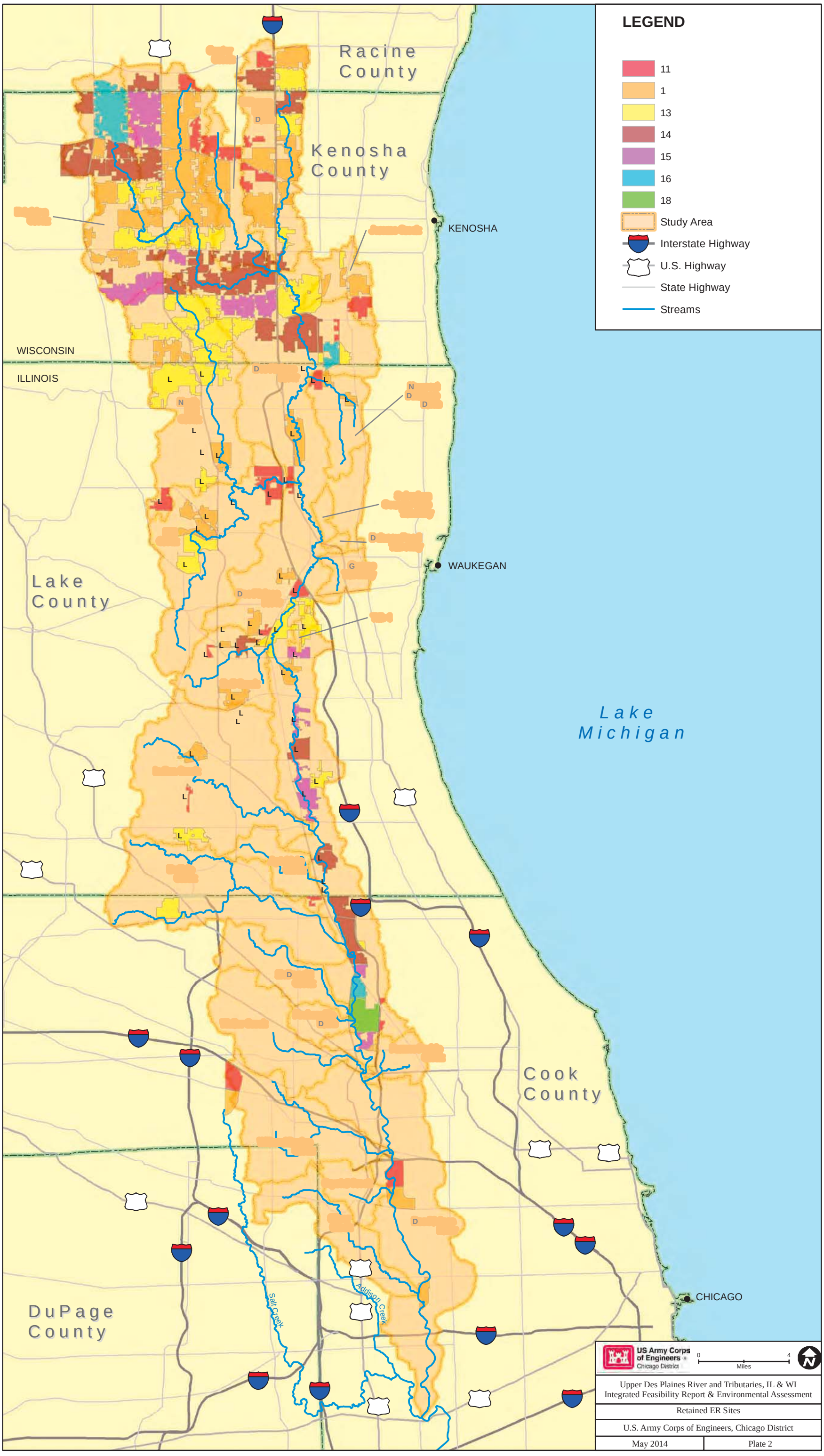
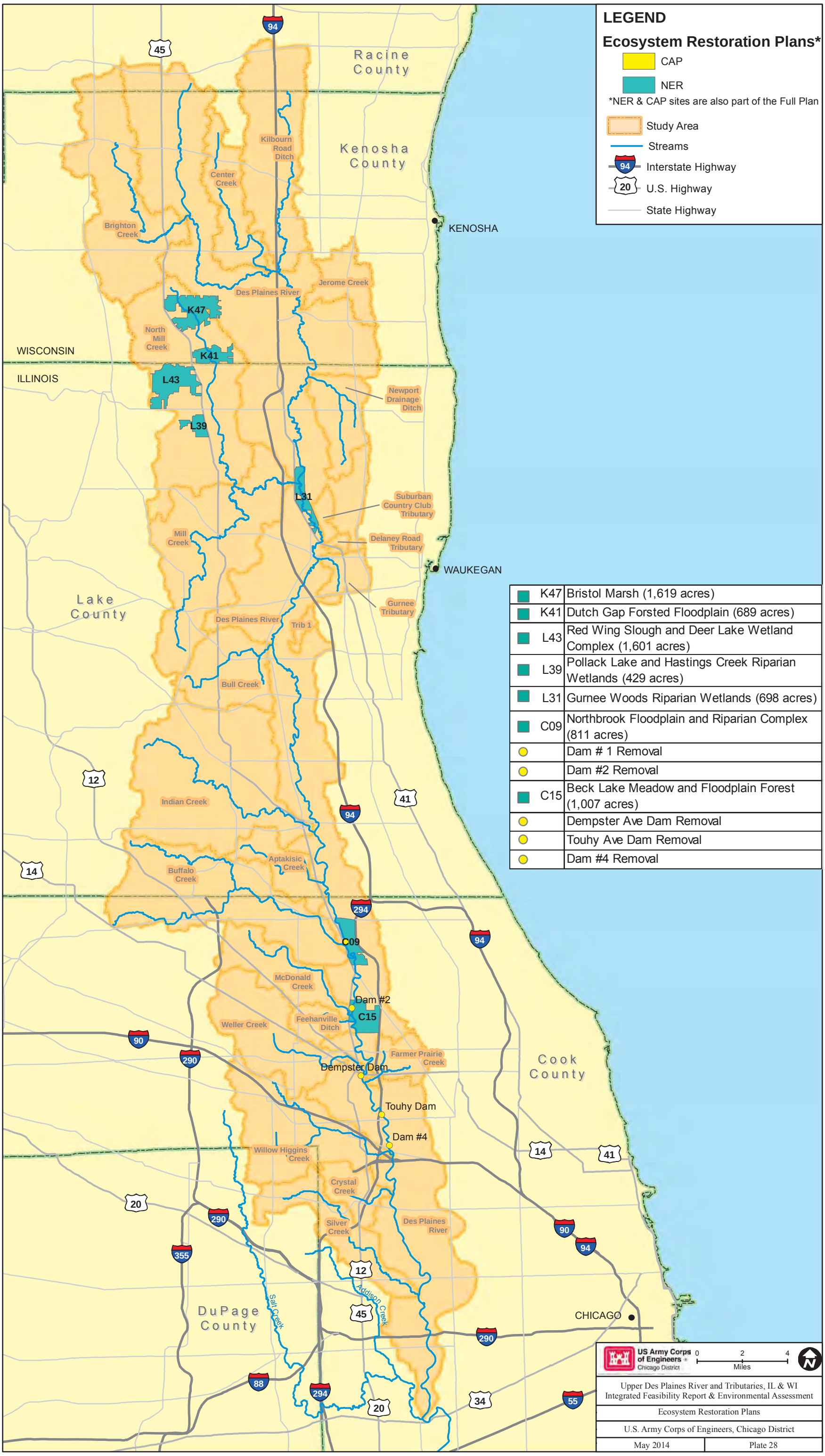
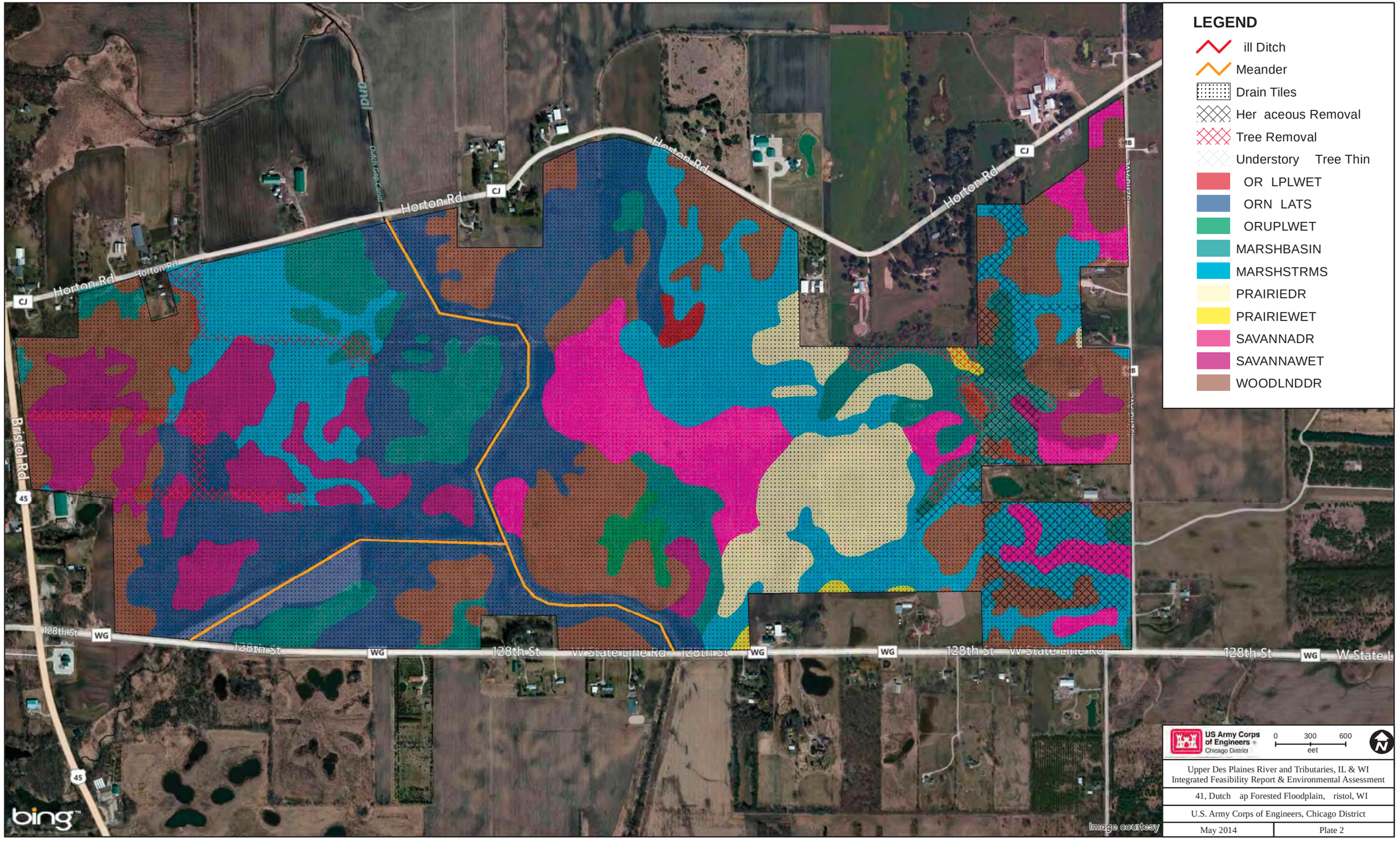
Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Identified ER Sites
U.S. Army Corps of Engineers, Chicago District
May 2014
Plate 2


LEGEND
11
1
13
14
15
16
18
Study Area
Interstate Highway
U.S. Highway
State Highway
Streams
Racine County
Kenosha County
Lake County
DuPage County
Cook County
KENOSHA
WAUKEGAN
CHICAGO
WISCONSIN
ILLINOIS
Lake Michigan
Salt Creek
Addison Creek
US Army Corps of Engineers
Chicago District
0
4
Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Retained ER Sites
U.S. Army Corps of Engineers, Chicago District
May 2014
Plate 2


LEGEND
Ecosystem Restoration Plans*
CAP
NER
*NER & CAP sites are also part of the Full Plan
Study Area
Streams
Interstate Highway
U.S. Highway
State Highway
Racine County
Kenosha County
Lake County
DuPage County
Cook County
WISCONSIN
ILLINOIS
KENOSHA
WAUKEGAN
CHICAGO
Kilbourn Road Ditch
Center Creek
Brighton Creek
Jerome Creek
Des Plaines River
North Mill Creek
K47
K41
L43
L39
L31
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Gurnee Tributary
Mill Creek
Trib 1
Bull Creek
Indian Creek
Aptakisic Creek
Buffalo Creek
C09
McDonald Creek
Dam #2
C15
Feehanville Ditch
Weller Creek
Farmer Prairie Creek
Dempster Dam
Touhy Dam
Dam #4
Willow Higgins Creek
Crystal Creek
Silver Creek
Des Plaines River
Salt Creek
Addison Creek
K47 Bristol Marsh (1,619 acres)
K41 Dutch Gap Forsted Floodplain (689 acres)
L43 Red Wing Slough and Deer Lake Wetland Complex (1,601 acres)
L39 Pollack Lake and Hastings Creek Riparian Wetlands (429 acres)
L31 Gurnee Woods Riparian Wetlands (698 acres)
C09 Northbrook Floodplain and Riparian Complex (811 acres)
Dam # 1 Removal
Dam #2 Removal
C15 Beck Lake Meadow and Floodplain Forest (1,007 acres)
Dempster Ave Dam Removal
Touhy Ave Dam Removal
Dam #4 Removal
US Army Corps of Engineers
Chicago District
0 2 4
Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Ecosystem Restoration Plans
U.S. Army Corps of Engineers, Chicago District
May 2014
Plate 28

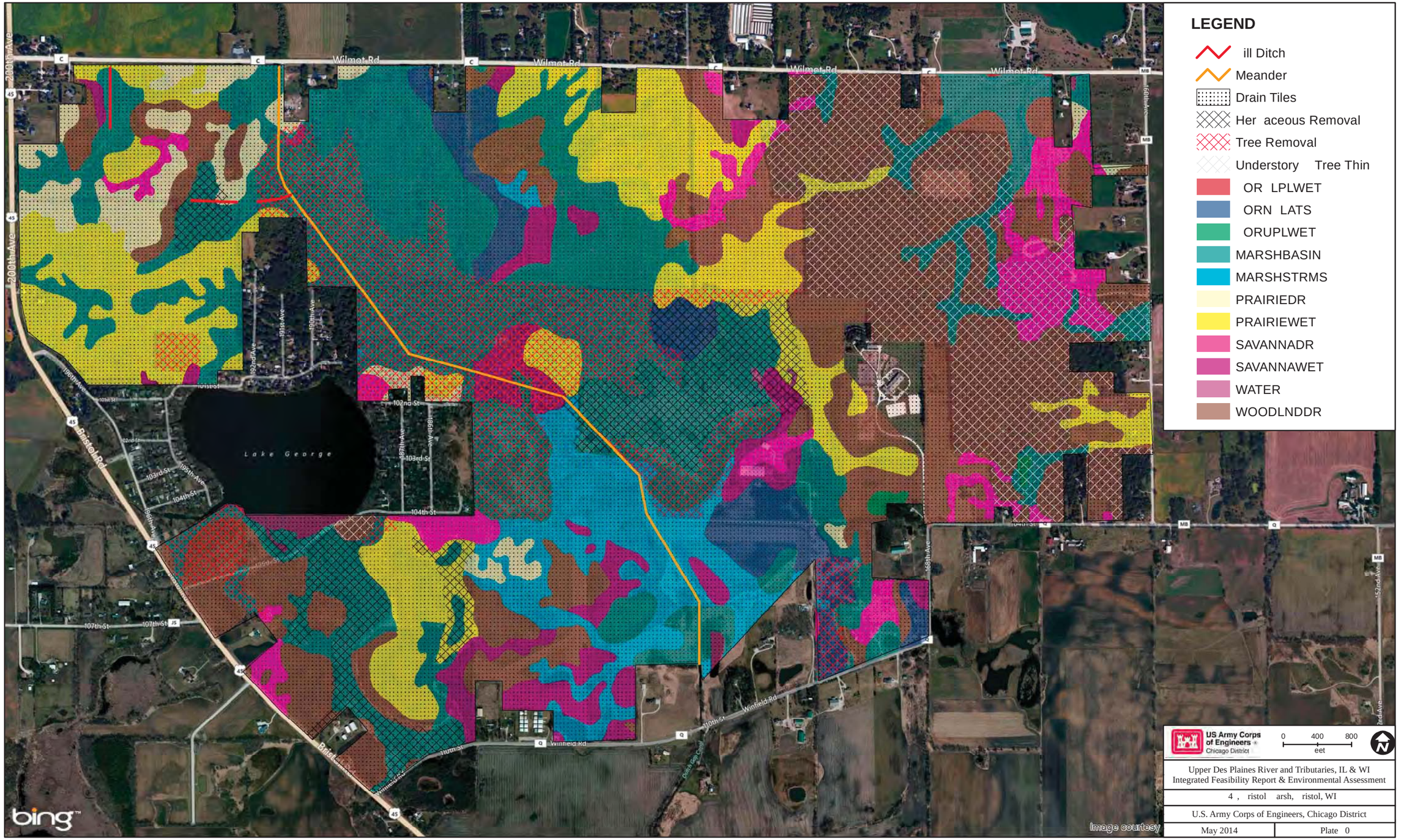


Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

41, Dutch ap Forested Floodplain, ristol, WI

U.S. Army Corps of Engineers, Chicago District

May 2014	Plate 2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WATER
WOODLNDDR
Wilmot Rd
200th Ave
Lake George
Bristol Rd
Winfield Rd
US Army Corps of Engineers
Chicago District
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Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
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U.S. Army Corps of Engineers, Chicago District
May 2014
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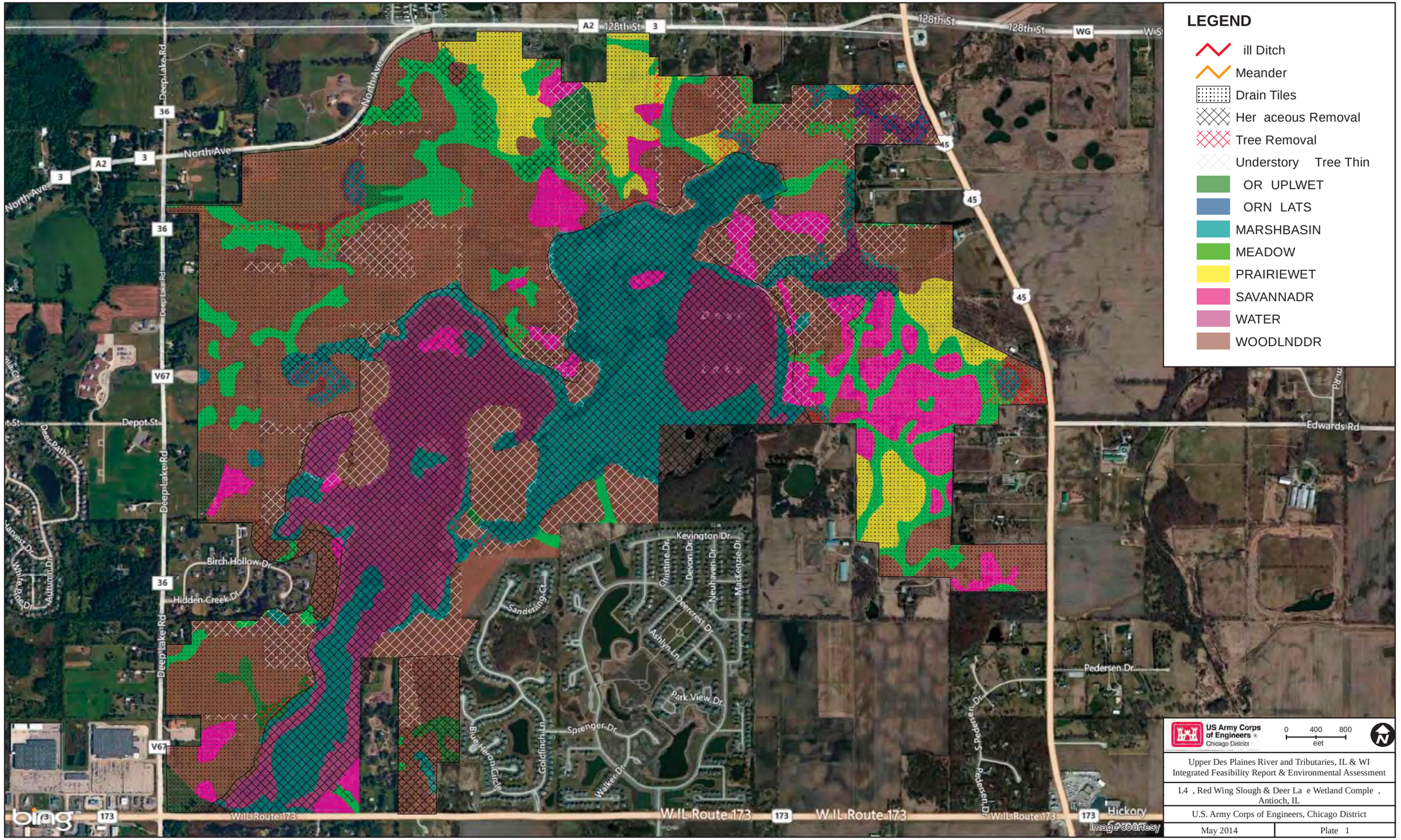
Image courtesy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WOODLNDDR
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128th St
North Ave
Deep Lake Rd
Depot St
Edwards Rd
Pedersen Dr
Kevington Dr
Christine Dr
Devon Dr
Neuhaven Dr
MacKenzie Dr
Deercrest Dr
Ashlyn Ln
Park View Dr
Sprenger Dr
Walker Dr
Sandering Ct
Goldfinch Ln
Blue Heron Circle
Birch Hollow Dr
Hidden Creek Dr
Harvest Dr
Autumn Dr
White Pine Dr
Deer Path
WIL Route 173
Hickory
US Army Corps of Engineers
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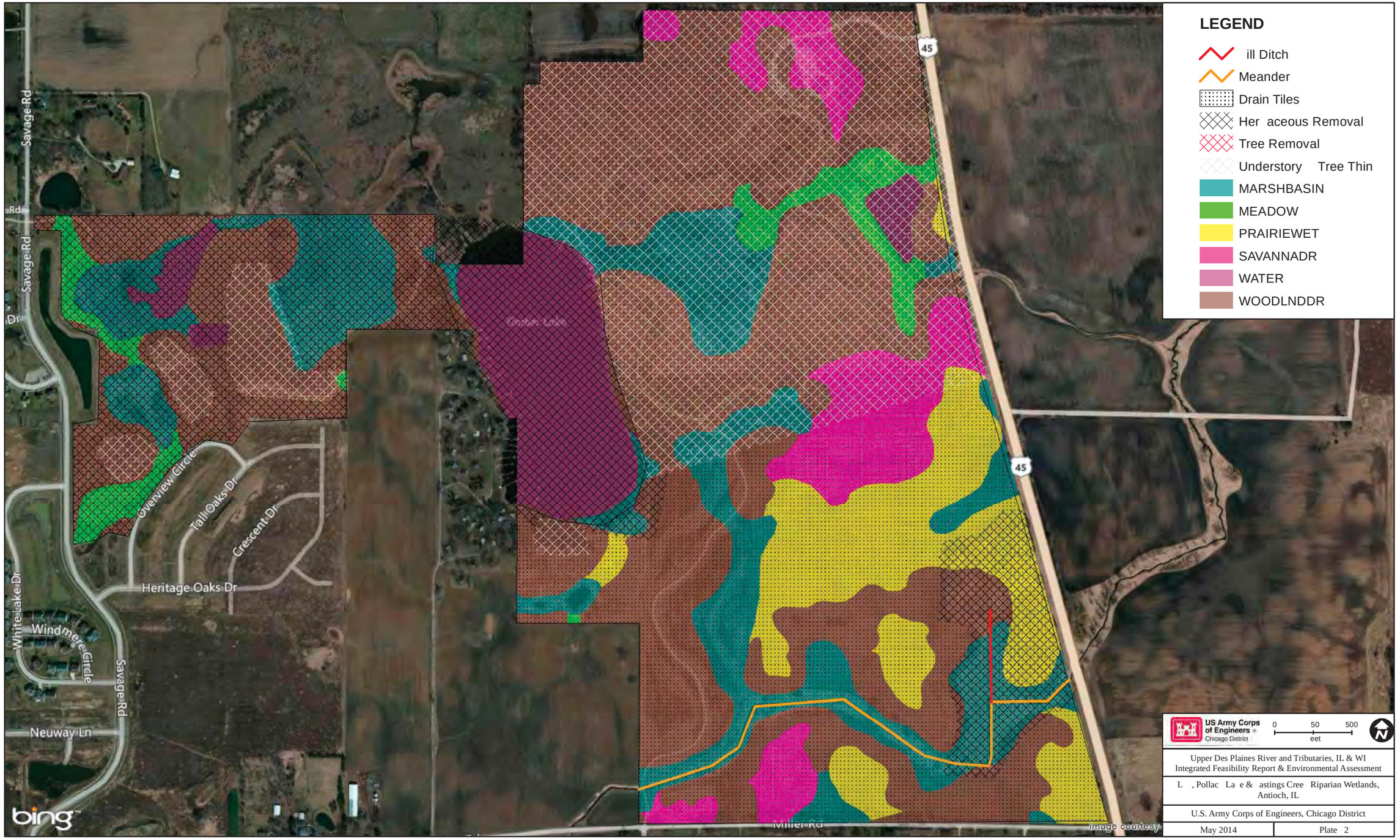
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
L4 , Red Wing Slough & Deer La e Wetland Comple , Antioch, IL
U.S. Army Corps of Engineers, Chicago District
May 2014
Plate 1

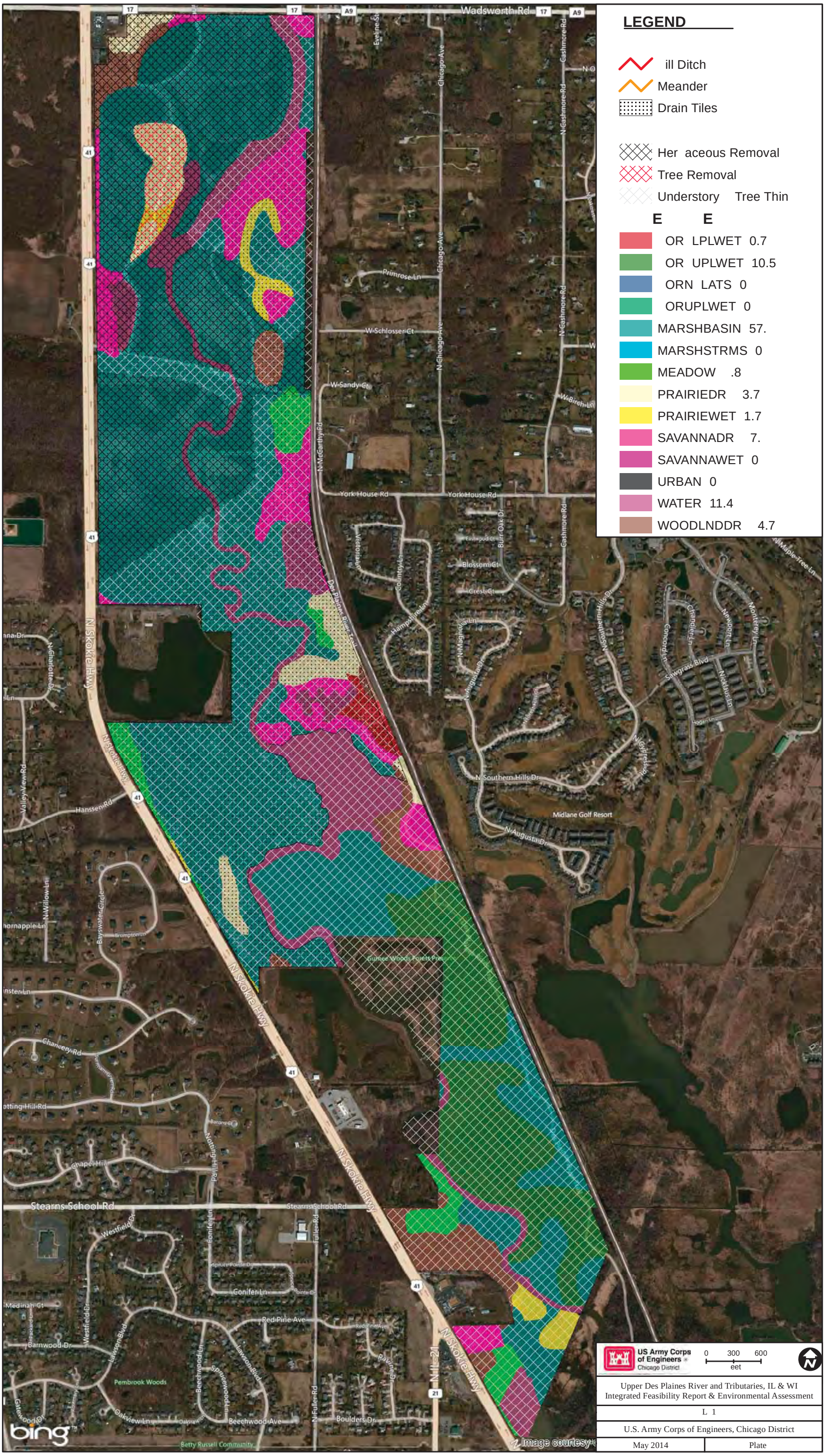


Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

L , Pollac La e & astings Cree Riparian Wetlands, Antioch, IL

U.S. Army Corps of Engineers, Chicago District

May 2014	Plate 2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Tree Removal
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ORN LATS 0
ORUPLWET 0
MARSHBASIN 57.
MARSHSTRMS 0
MEADOW .8
PRAIRIEDR 3.7
PRAIRIEWET 1.7
SAVANNADR 7.
SAVANNAWET 0
URBAN 0
WATER 11.4
WOODLNDDR 4.7
Wadsworth Rd
Chicago Ave
Cashmore Rd
Primrose Ln
W Schlosser Ct
W Sandy Ct
W Birch Ln
N McCarthy Rd
York House Rd
Victoria Ln
Country Ln
Eastwood Ct
Blossom Ct
Crest Ct
Hampshire Ln
Magnolia Ln
Augusta Dr
Southern Hills Dr
Midlane Golf Resort
Sawgrass Blvd
Concord Ln
Newport Ln
Monterey Ln
Nicklaus Ln
Maple Tree Ln
Des Plaines River Trail
N Skokie Hwy
Hanssen Rd
Valley View Rd
Charlotte Dr
Willow Ln
Bayswater Circle
Brompton Ln
Gurnee Woods Forest Pres
Chancery Rd
Tournament Dr
Stearns School Rd
Westfield Dr
Conifer Ln
Spruce Pointe Dr
Fuller Rd
Medinah Ct
Red Pine Ave
Barnwood Dr
Lawson Blvd
Pembrook Woods
Beechwood Ln
Spruce Wood Ln
Beechwood Ave
Oakview Ln
Gatewood Dr
Boulders Dr
Ravine Dr
Betty Russell Community
IL-21
US Army Corps of Engineers
Chicago District
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Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
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U.S. Army Corps of Engineers, Chicago District
May 2014
Plate
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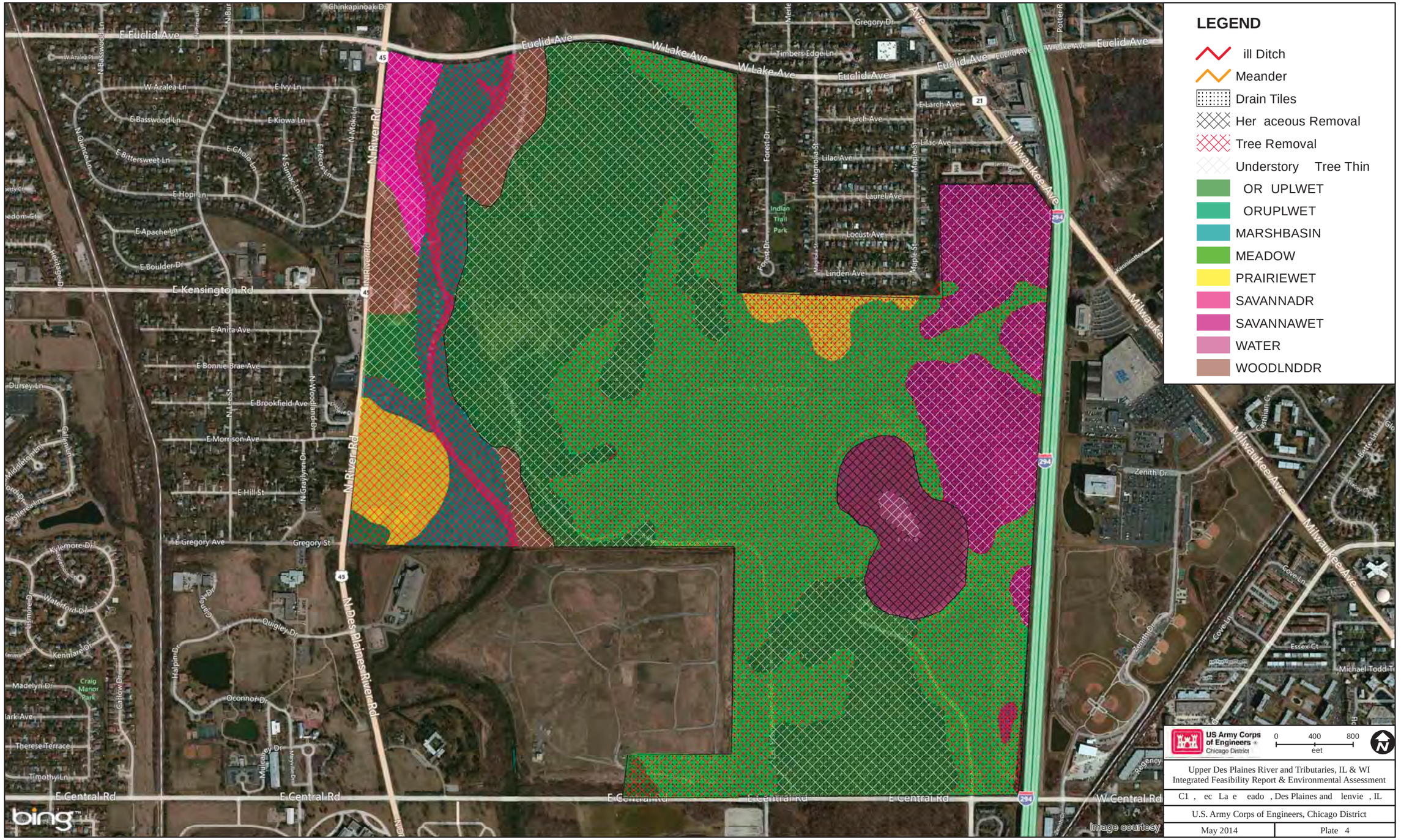
Image courtesy

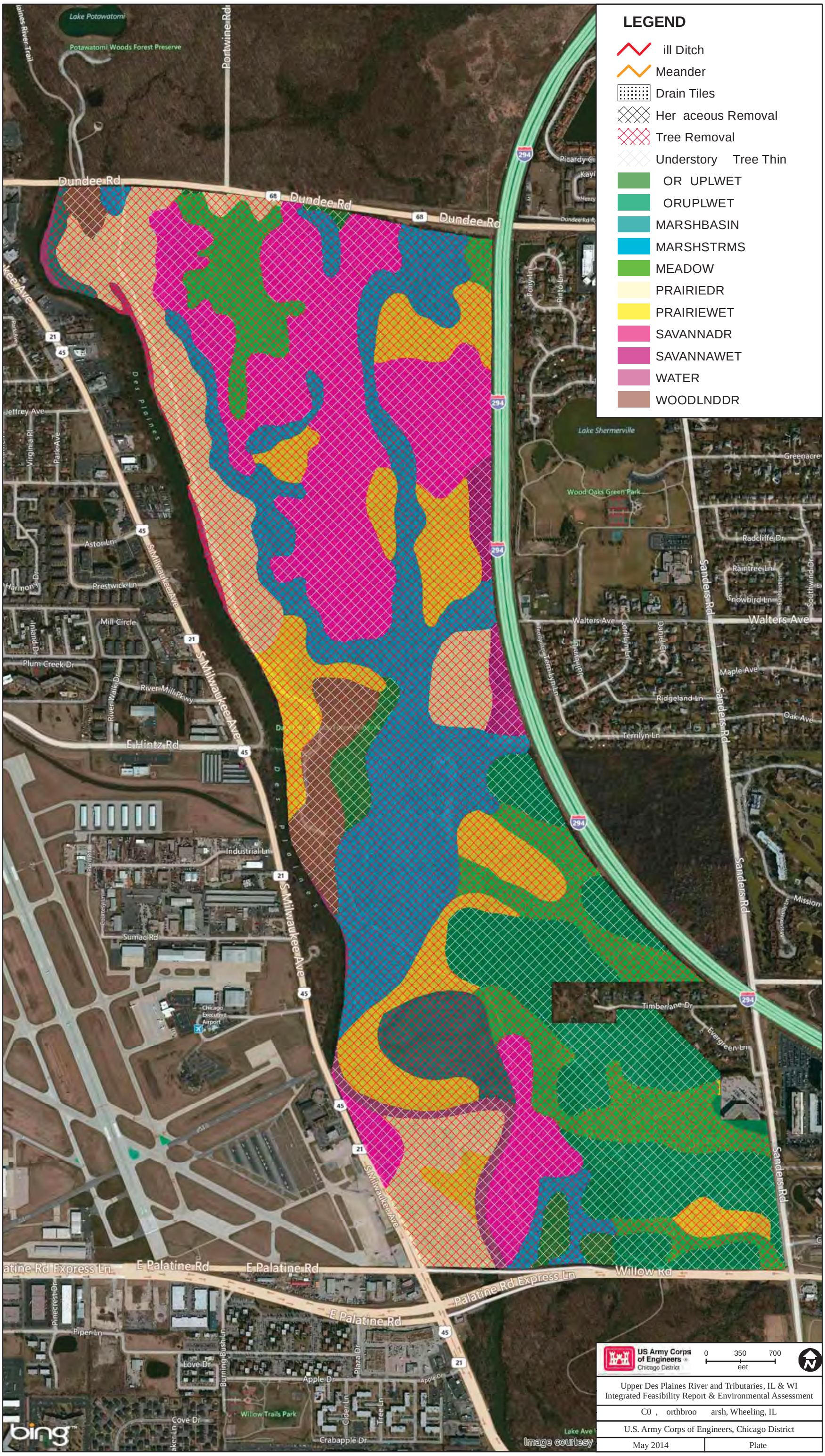


Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

C1 , ec La e eado , Des Plaines and lenvie , IL

U.S. Army Corps of Engineers, Chicago District

May 2014	Plate 4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Tree Removal
Understory Tree Thin
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MARSHSTRMS
MEADOW
PRAIRIEDR
PRAIRIEWET
SAVANNADR
SAVANNAWET
WATER
WOODLNDDR
Lake Potawatomi
Potawatomi Woods Forest Preserve
Portwine Rd
Dundee Rd
68
294
Lake Shermerville
Wood Oaks Green Park
Greenacres
Radcliffe Dr
Raintree Ln
Snowbird Ln
Walters Ave
Sanders Rd
Maple Ave
Ridgeland Ln
Oak Ave
Terrilyn Ln
Mission
Timberlane Dr
Evergreen Ln
Jeffrey Ave
Virginia Pl
Park Ave
Astor Ln
Prestwick Ln
Harmony Dr
Mill Circle
Inland Dr
Plum Creek Dr
River Walk Dr
River Mill Pkwy
E Hintz Rd
S Milwaukee Ave
21
45
Des Plaines
Industrial Ln
Sumac Rd
Chicago Executive Airport
E Palatine Rd
Palatine Rd Express Ln
Willow Rd
Pinecrest Dr
Piper Ln
Love Dr
Burning Bush Ln
Plaza Dr
Apple Dr
Cider Ln
Tree Ln
Crabapple Dr
Cove Dr
Willow Trails Park
Baker Ln
Courtesy Ln
Image courtesy
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US Army Corps of Engineers
Chicago District
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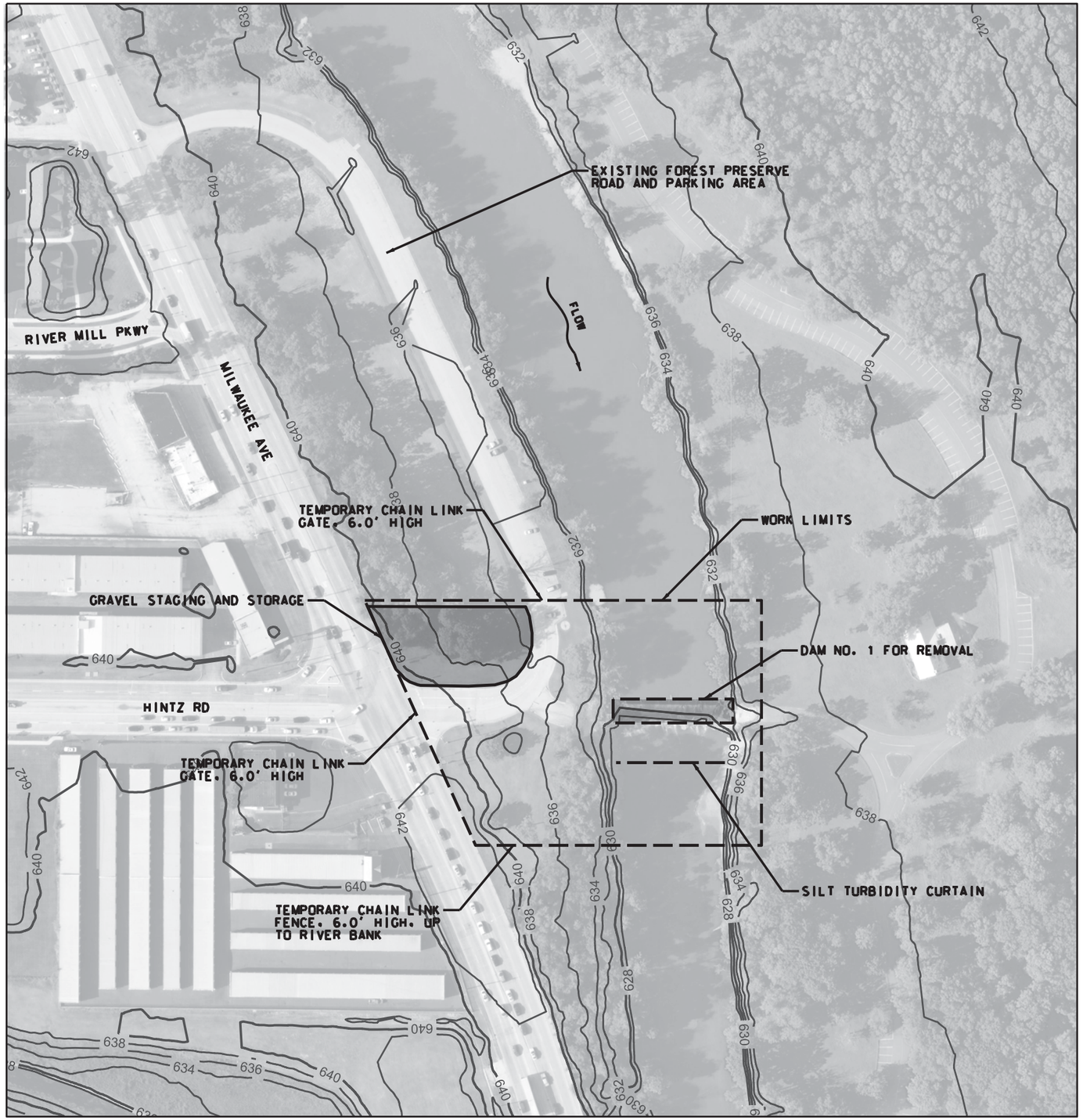
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
C0 , orthbroo arsh, Wheeling, IL
U.S. Army Corps of Engineers, Chicago District
May 2014
Plate



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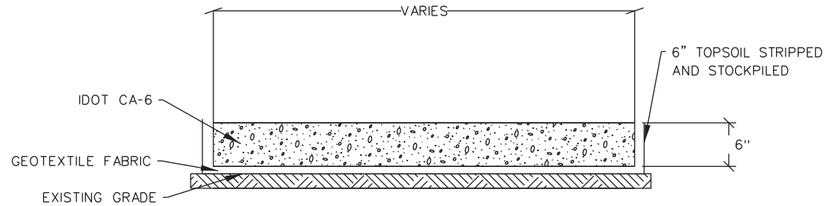


DAM NO. 1 GRAVEL STAGING & STORAGE (TYP)
N.T.S.

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM LOCAL GIS DATA AND REPRESENT CONDITIONS EXISTING AT THAT TIME.
2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.
4. STAGING AND STORAGE AREAS SHALL BE CONSTRUCTED AS SHOWN ON TYPICAL SECTION.
5. ALL GRAVEL AND GEOTEXTILE FABRIC SHALL BE REMOVED AFTER DEMOLITION ACTIVITIES ARE COMPLETED AND PROPERLY DISPOSED.
6. STRIPPED TOPSOIL SHALL BE REPLACED AND THE ACCESS ROAD AND STAGING/STORAGE AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
7. AT A MINIMUM CLEARING AND GRUBBING SHALL TAKE PLACE ON THE AREA COVERED BY THE TEMPORARY GRAVEL ACCESS ROAD AND STAGING/STORAGE AREA TO ALLOW THE CONTRACTOR ACCESS TO THE DAM.

0 150' 300'

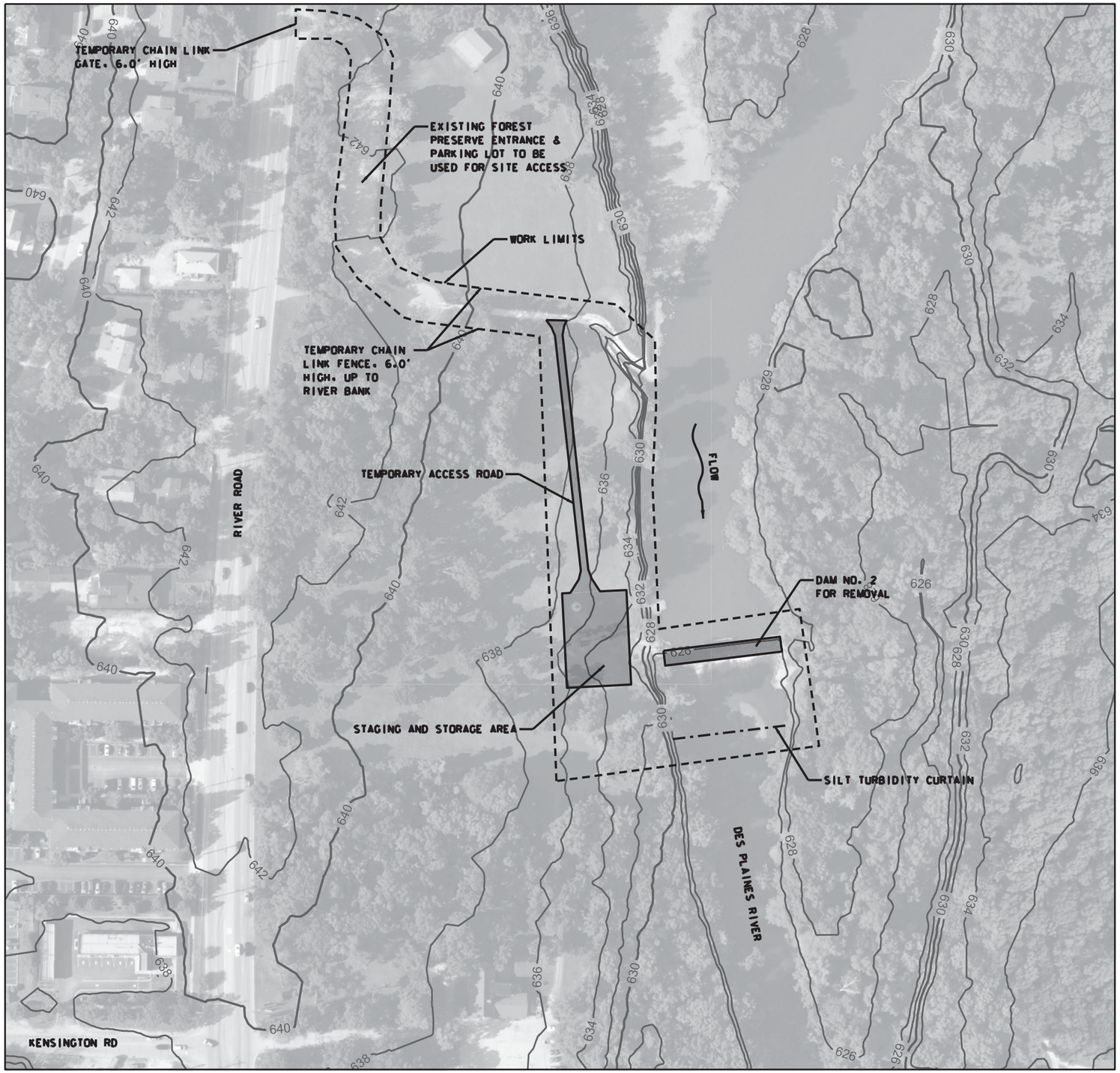
SCALE:1"=150'

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIRONMENTAL ASSESSMENT

DAM NO. 1 REMOVAL SITE PLAN
WHEELING, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" = 150'-0"	MAR 2014	DAM_NO_1_SITE_PLAN.DGN



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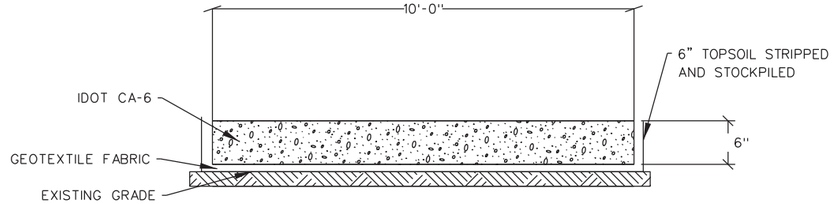
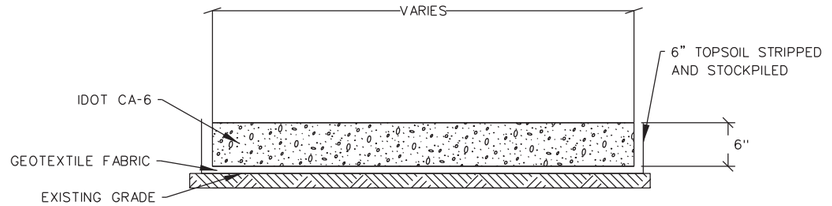


DAM NO. 2 GRAVEL ACCESS ROAD (TYP)

N.T.S.



DAM NO. 2 GRAVEL STAGING & STORAGE (TYP)

N.T.S.

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME.
2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.
4. STAGING AND STORAGE AREAS SHALL BE CONSTRUCTED AS SHOWN ON TYPICAL SECTION
5. ALL GRAVEL AND GEOTEXTILE FABRIC SHALL BE REMOVED AFTER DEMOLITION ACTIVITIES ARE COMPLETED AND PROPERLY DISPOSED.
6. STRIPPED TOPSOIL SHALL BE REPLACED AND THE ACCESS ROAD AND STAGING/STORAGE AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
7. AT A MINIMUM CLEARING AND GRUBBING SHALL TAKE PLACE ON THE AREA COVERED BY THE TEMPORARY GRAVEL ACCESS ROAD AND STAGING/STORAGE AREA TO ALLOW THE CONTRACTOR ACCESS TO THE DAM.

0 150' 300'

SCALE:1"=150'

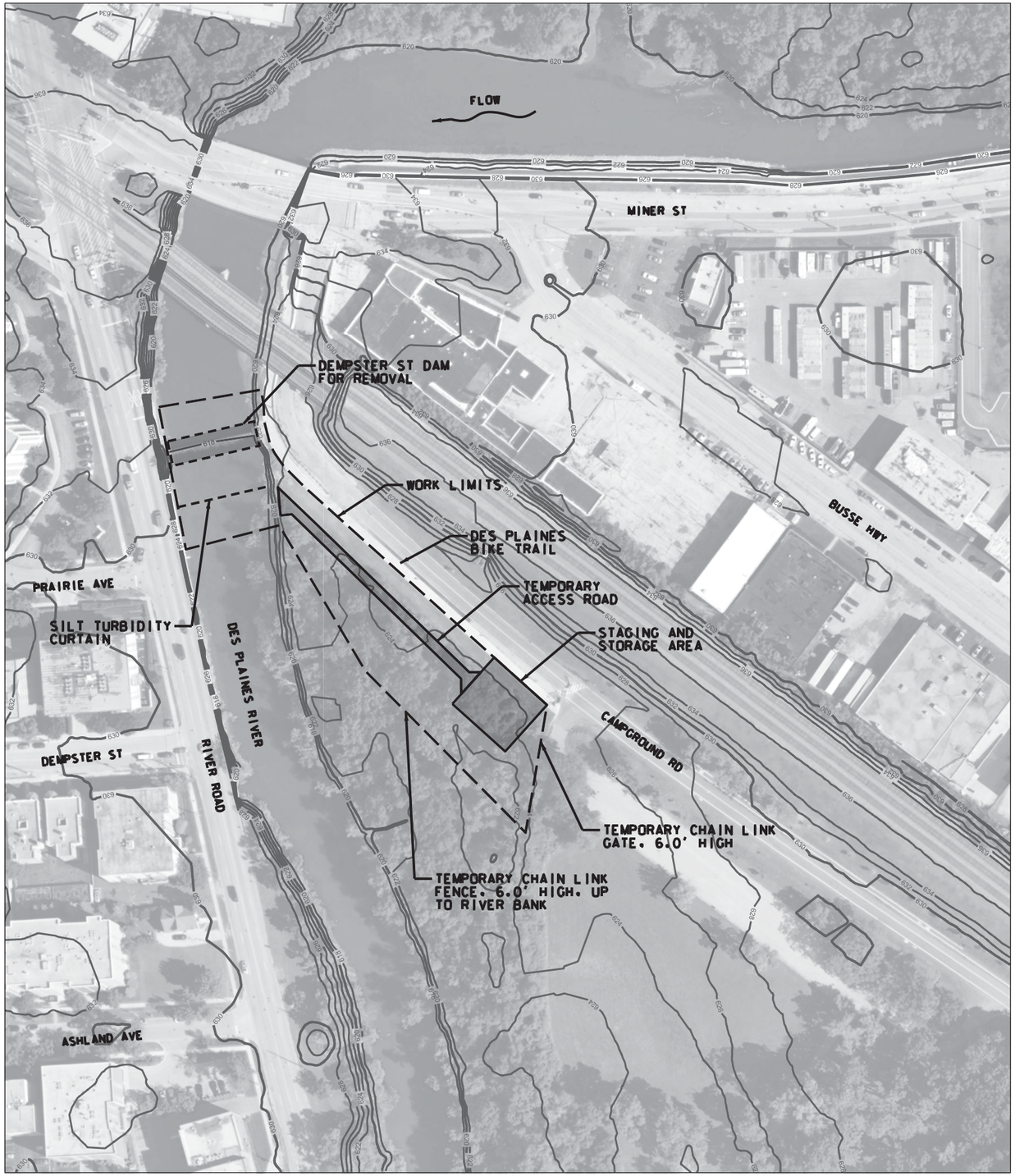
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIROMENTAL ASSESSMENT

DAM NO. 2 REMOVAL SITE PLAN MOUNT PROSPECT, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" = 150'- 0"	MAR 2014	DAM_NO_2_SITE_PLAN.DGN

PLATE 37



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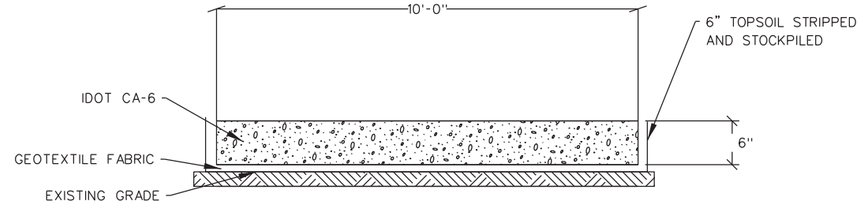
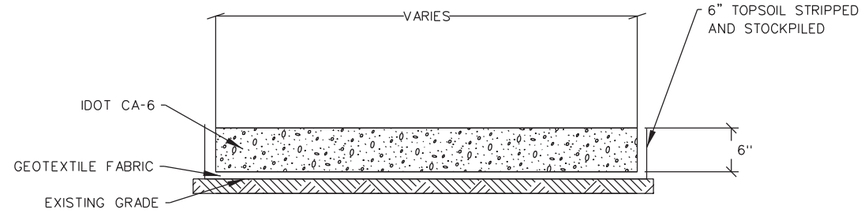


DEMPSTER ST. DAM GRAVEL ACCESS ROAD (TYP)
N.T.S.



DEMPSTER ST. DAM GRAVEL STAGING & STORAGE (TYP)
N.T.S.

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM LOCAL GIS DATA AND REPRESENT CONDITIONS EXISTING AT THAT TIME.
2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.
4. STAGING AND STORAGE AREAS SHALL BE CONSTRUCTED AS SHOWN ON TYPICAL SECTION.
5. ALL GRAVEL AND GEOTEXTILE FABRIC SHALL BE REMOVED AFTER DEMOLITION ACTIVITIES ARE COMPLETED AND PROPERLY DISPOSED.
6. STRIPPED TOPSOIL SHALL BE REPLACED AND THE ACCESS ROAD AND STAGING/STORAGE AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
7. AT A MINIMUM CLEARING AND GRUBBING SHALL TAKE PLACE ON THE AREA COVERED BY THE TEMPORARY GRAVEL ACCESS ROAD AND STAGING/STORAGE AREA TO ALLOW THE CONTRACTOR ACCESS TO THE DAM.

0 150' 300'

SCALE:1"=150'

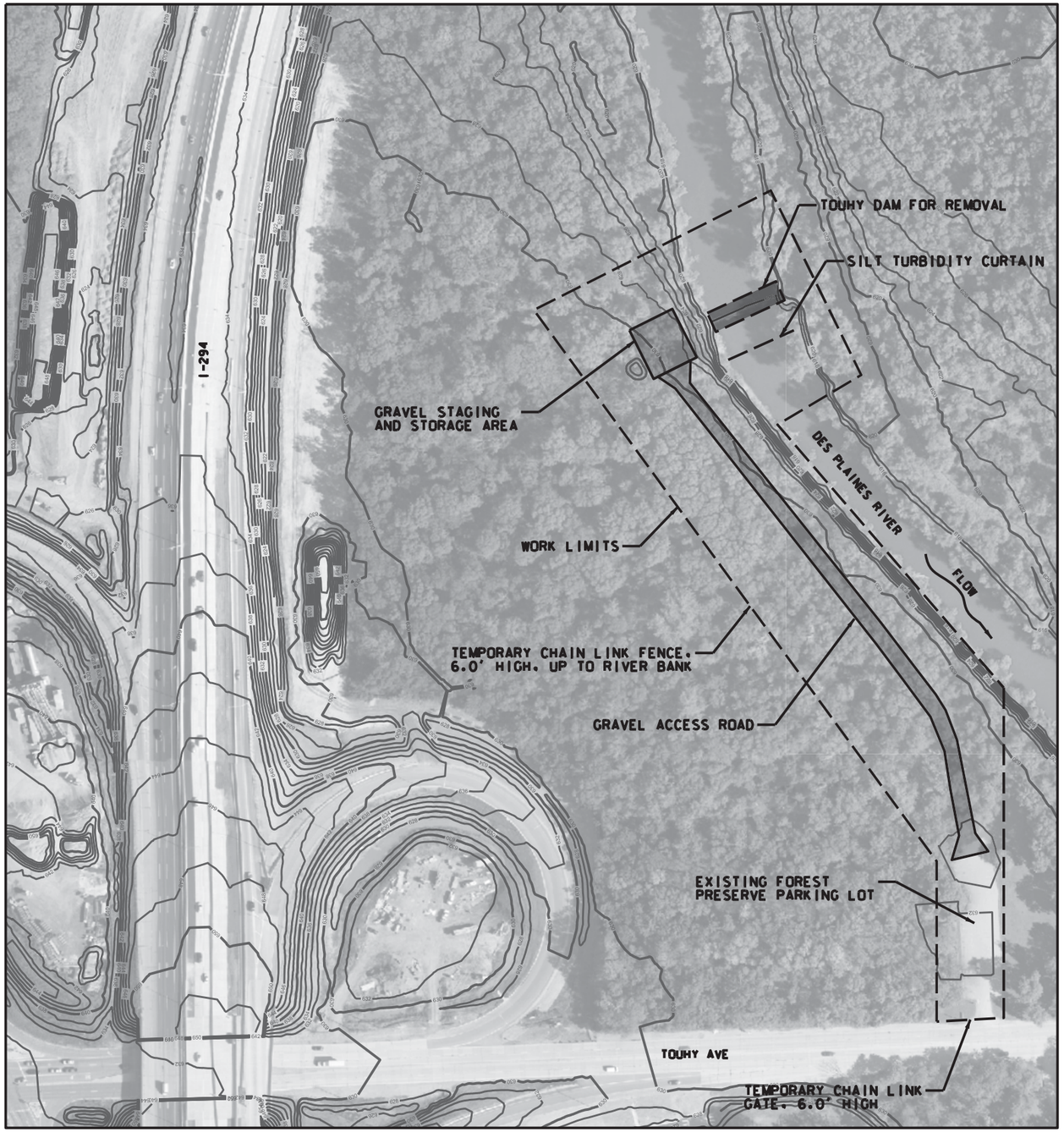
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIRONMENTAL ASSESSMENT

DEMPSTER ST. DAM REMOVAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" = 150'- 0"	MAR 2014	DEMPSTER_DAM_SITE_PLAN.DGN

PLATE 38



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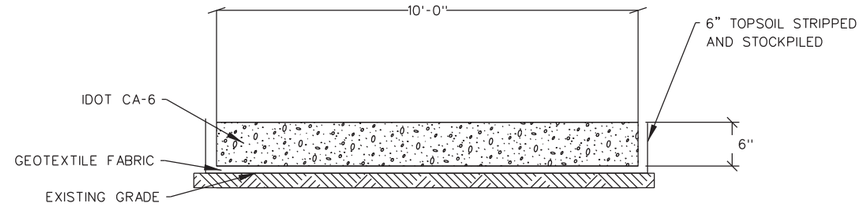
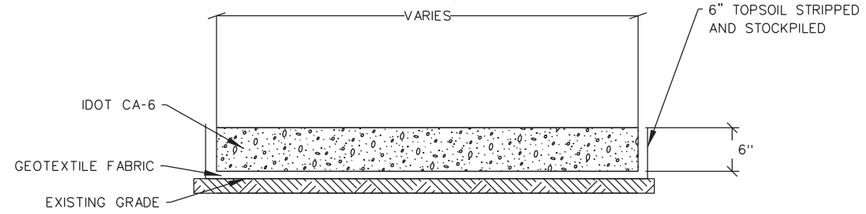


TOUHY DAM GRAVEL ACCESS ROAD (TYP)
N.T.S.



TOUHY DAM GRAVEL STAGING & STORAGE (TYP)
N.T.S.

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0 200' 400'

SCALE:1"=200'

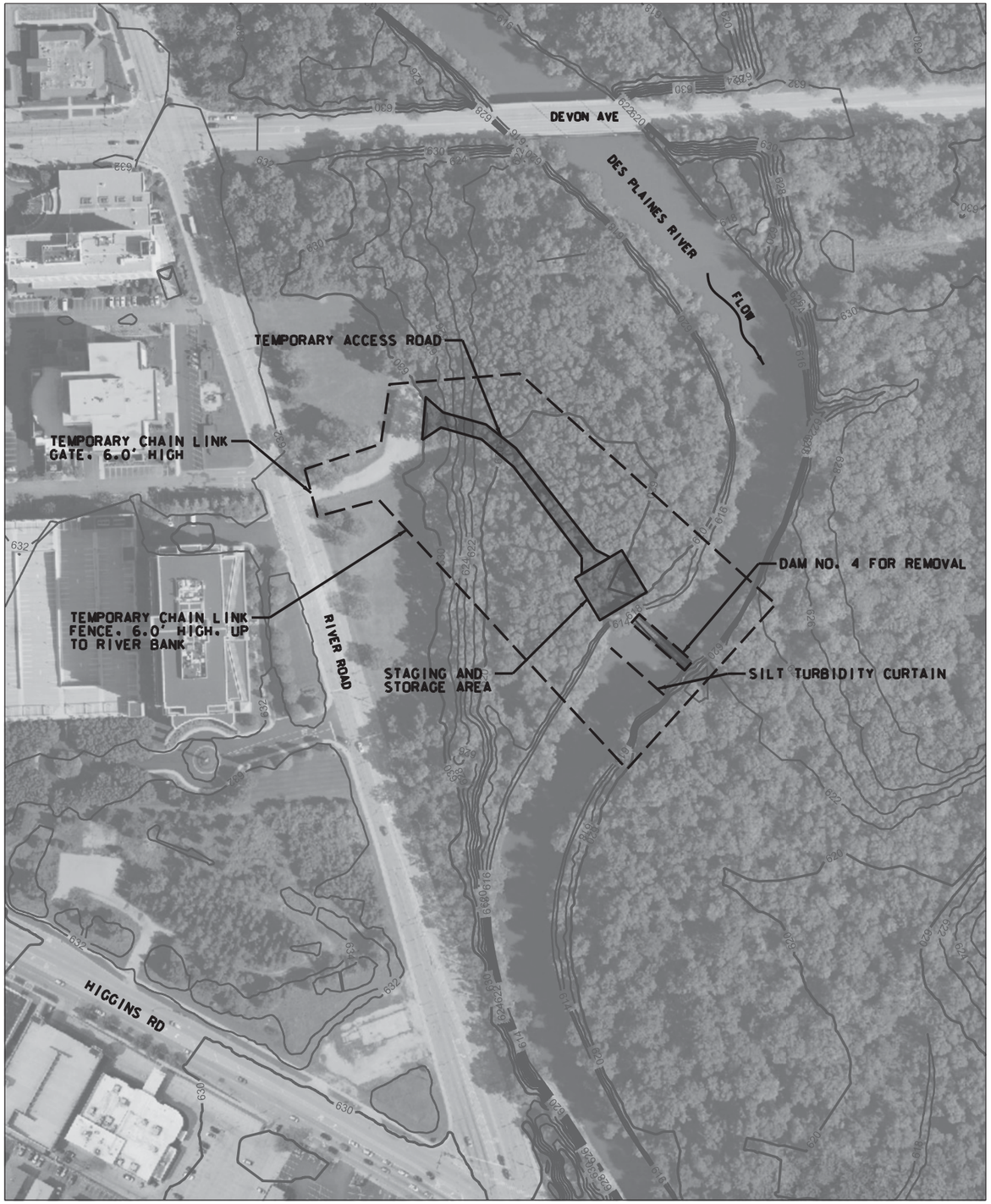
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER
AND TRIBUTARIES
FEASIBILITY REPORT
AND ENVIRONMENTAL ASSESSMENT

TOUHY DAM REMOVAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" = 200'- 0"	MAR 2014	TOUHY_DAM_SITE_PLAN.DGN

PLATE 39



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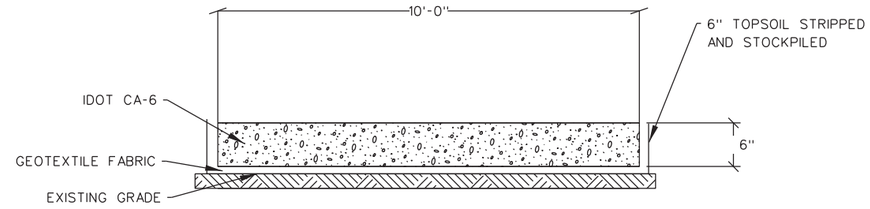
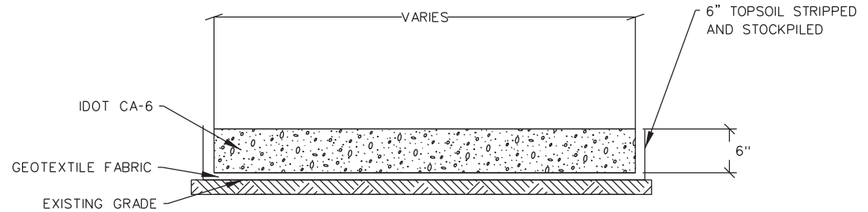


DAM NO. 4 GRAVEL ACCESS ROAD (TYP)
N.T.S.



DAM NO. 4 GRAVEL STAGING & STORAGE (TYP)
N.T.S.

NOTES:

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0 200' 400'

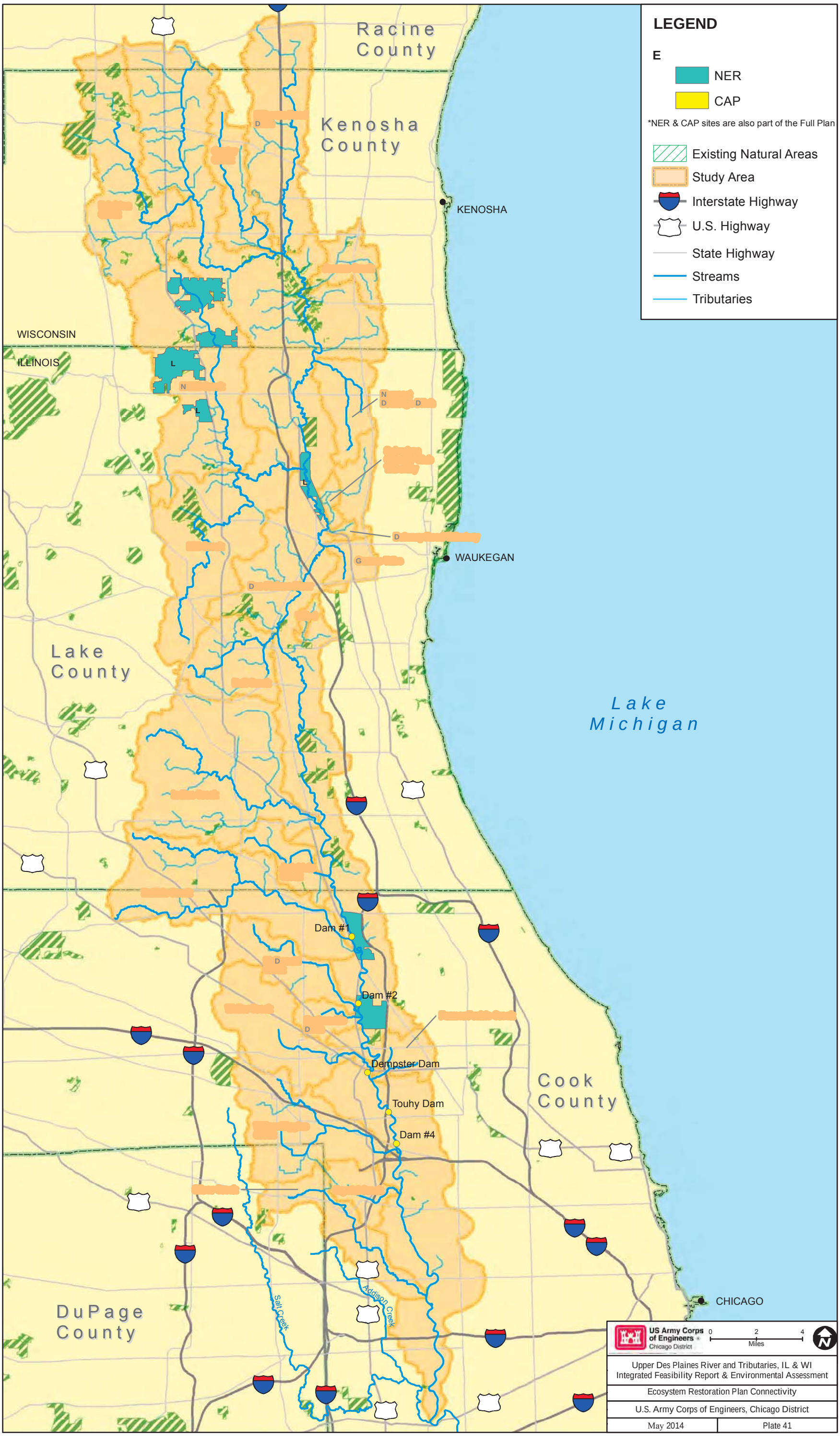
SCALE:1"=200'

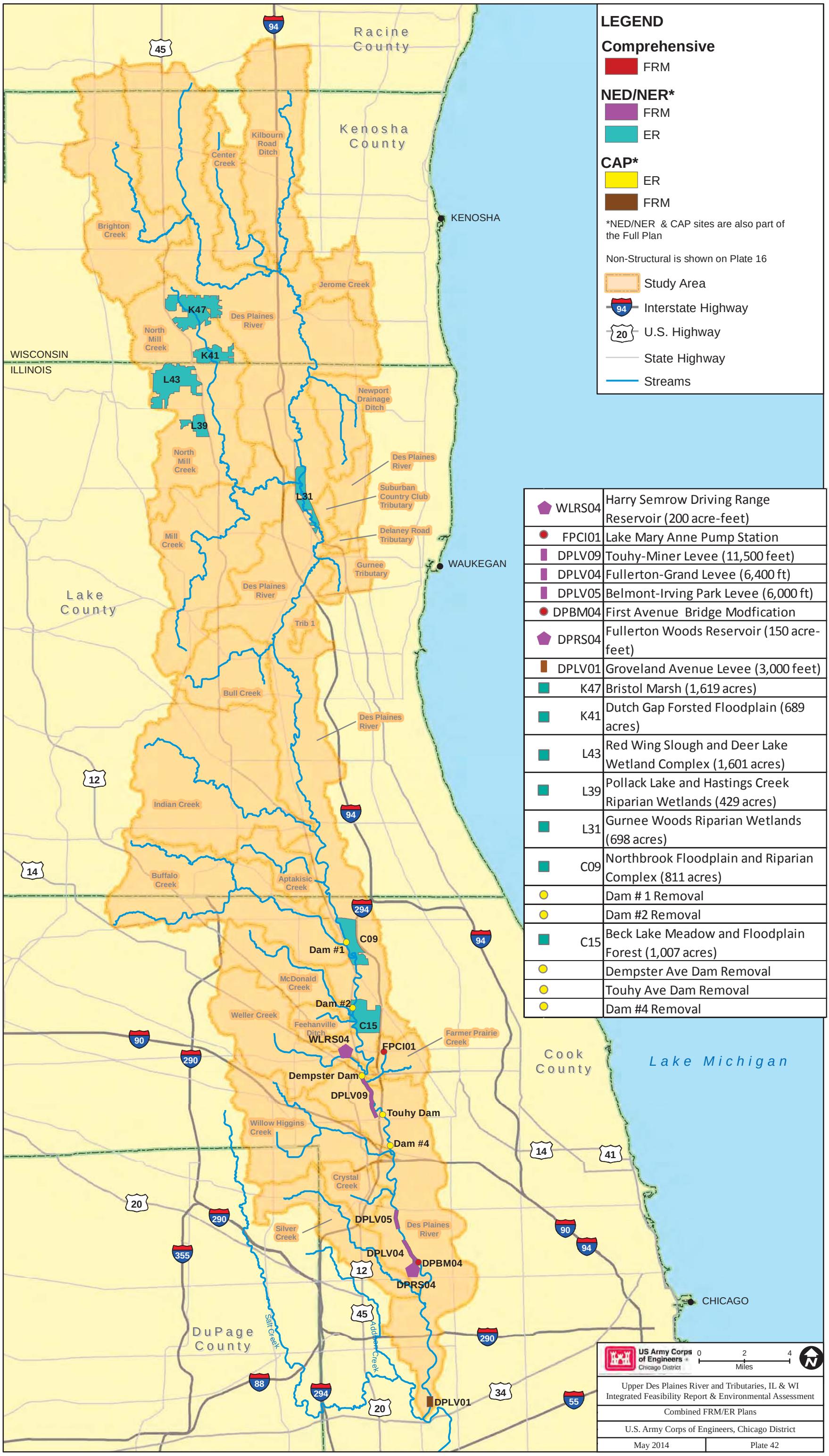
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND ENVIRONMENTAL ASSESSMENT

DAM NO. 4 REMOVAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" - 200'- 0"	MAR 2014	DAM_NO_4_SITE_PLAN.DGN


Racine County
Kenosha County
KENOSHA
WISCONSIN
ILLINOIS
WAUKEGAN
Lake County
Lake Michigan
Dam #1
Dam #2
Dempster Dam
Touhy Dam
Dam #4
Cook County
CHICAGO
DuPage County
Salt Creek
Addison Creek
LEGEND
E
NER
CAP
*NER & CAP sites are also part of the Full Plan
Existing Natural Areas
Study Area
Interstate Highway
U.S. Highway
State Highway
Streams
Tributaries
US Army Corps of Engineers
Chicago District
0
2
4
Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Ecosystem Restoration Plan Connectivity
U.S. Army Corps of Engineers, Chicago District
May 2014
Plate 41



WLRS04	Harry Semrow Driving Range Reservoir (200 acre-feet)
FPCI01	Lake Mary Anne Pump Station
DPLV09	Touhy-Miner Levee (11,500 feet)
DPLV04	Fullerton-Grand Levee (6,400 ft)
DPLV05	Belmont-Irving Park Levee (6,000 ft)
DPBM04	First Avenue Bridge Modfication
DPRS04	Fullerton Woods Reservoir (150 acre-feet)
DPLV01	Groveland Avenue Levee (3,000 feet)
K47	Bristol Marsh (1,619 acres)
K41	Dutch Gap Forsted Floodplain (689 acres)
L43	Red Wing Slough and Deer Lake Wetland Complex (1,601 acres)
L39	Pollack Lake and Hastings Creek Riparian Wetlands (429 acres)
L31	Gurnee Woods Riparian Wetlands (698 acres)
C09	Northbrook Floodplain and Riparian Complex (811 acres)
	Dam # 1 Removal
	Dam #2 Removal
C15	Beck Lake Meadow and Floodplain Forest (1,007 acres)
	Dempster Ave Dam Removal
	Touhy Ave Dam Removal
	Dam #4 Removal