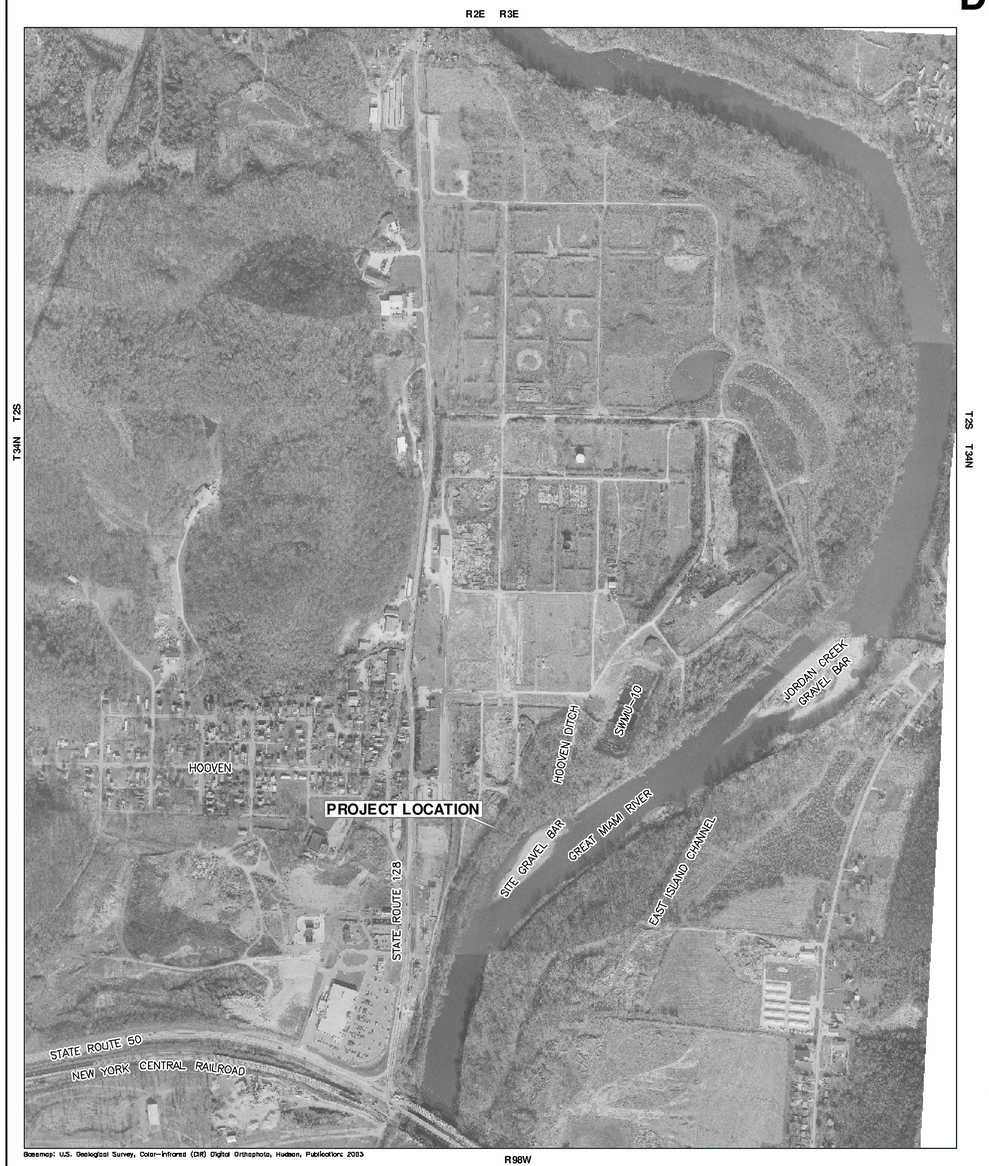
US EPA ARCHIVE DOCUMENT

SHEET PILE BARRIER AND BANK STABILIZATION ALONG THE GREAT MIAMI RIVER

CHEVRON CINCINNATI FACILITY
HOOVEN, OHIO
DECEMBER 28, 2007



Basemap: U.S. Geological Survey, Color-Infrared (CIR) Digital Orthophoto, Hudson, Publication: 2003

0 500' 1,000'

1 **SITE VICINITY MAP**
SCALE 1" = 500'

CERTIFICATE OF ENGINEER

STATE OF OHIO)
) SS:
COUNTY OF HAMILTON)

THIS CERTIFIES THAT THE STRUCTURAL DESIGN CALCULATIONS, DRAWINGS, AND DETAILS PERTAINING TO THE STEEL SHEET PILE BARRIER WALL AND RIPRAP REVETMENT SYSTEM HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

CERTIFICATE OF ENGINEER

STATE OF OHIO)
) SS:
COUNTY OF HAMILTON)

THIS CERTIFIES THAT THE HYDRAULIC MODELING AND FLOOD-TOLERANT VEGETATION DESIGN, DRAWINGS, AND DETAILS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

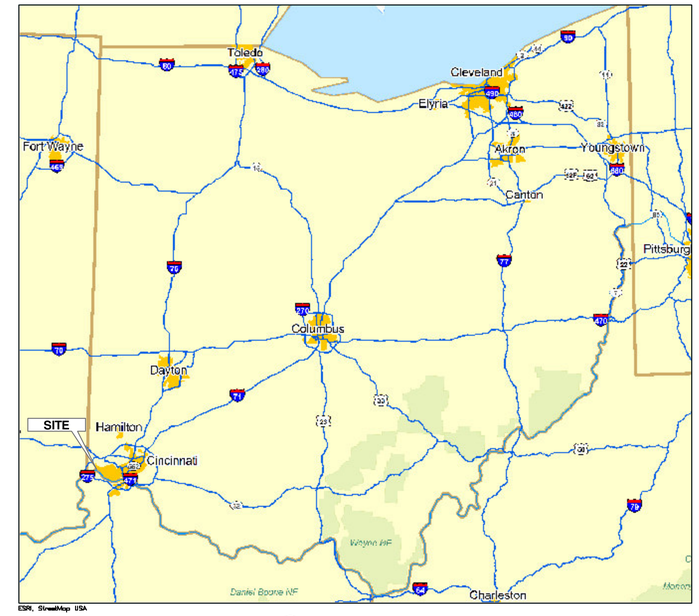
CERTIFICATE OF ENGINEER

STATE OF OHIO)
) SS:
COUNTY OF HAMILTON)

THIS CERTIFIES THAT THE DESIGN, DRAWINGS, AND DETAILS FOR THE AIR SPARGE SYSTEM, AND GENERAL SITE WORK HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

DIA.	DIAMETER
EL.	ELEVATION
FT AMSL	FEET ABOVE MEAN SEA LEVEL
HWL	HIGH WATER LEVEL
MIN.	MINIMUM
N	NORTH
NO.	NUMBER
PVC	POLYVINYL CHLORIDE
R	RANGE
T	TOWNSHIP
TYP.	TYPICAL

3 **PLAN SET ABBREVIATIONS**



2 **OHIO STATE MAP**
SCALE 1" = ~30 MILES

0 ~30 MILES ~60 MILES

SHEET NO.	TITLE	REV.
1	PROJECT LOCATION, INDEX OF SHEETS AND PLAN SET ABBREVIATIONS	A
2	GENERAL REMEDY PLAN	A
3	CROSS SECTION LOCATIONS AND CROSS SECTION A-A'	A
4	CROSS SECTION B-B' AND CROSS SECTION C-C'	A
5	SHEET PILE BARRIER PLAN, PROFILE, AND DETAILS	A
6	FLOOD-TOLERANT VEGETATION PLAN AND DETAILS	A
7	HOOVEN DITCH REALIGNMENT PLAN, PROFILE AND TYPICAL CROSS SECTION	A
8	HORIZONTAL AIR SPARGE PIPING AND COFFER DAM LAYOUT	A

4 **INDEX OF SHEETS**

SET NO._____

REV.	DATE	DESCRIPTION	BY	CHK'D
A	11/28/2007	WORK PLAN SUBMITTAL TO EPA	REP	JGP
0	07/17/2007	PEER ASSIST	SV	JGP

REVISIONS

WARNING
IF THIS BAR DOES NOT MEASURE 1" IN LENGTH THEN DRAWING IS NOT AT INTENDED SCALE

DRAWN BY: REP
CHECKED BY: JGP
DATE: 12/28/07
SCALE: AS SHOWN
FILE: 500TITLECOVER_S1

Trihydro CORPORATION
12252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307.745.7474 (F) 307.745.7729

PROJECT LOCATION, INDEX OF SHEETS AND PLAN SET ABBREVIATIONS

SHEET PILE BARRIER AND RIVER BANK STABILIZATION PROJECT
CHEVRON CINCINNATI FACILITY, OHIO

COVER SHEET
1
1 OF 8
REV: A

US EPA ARCHIVE DOCUMENT

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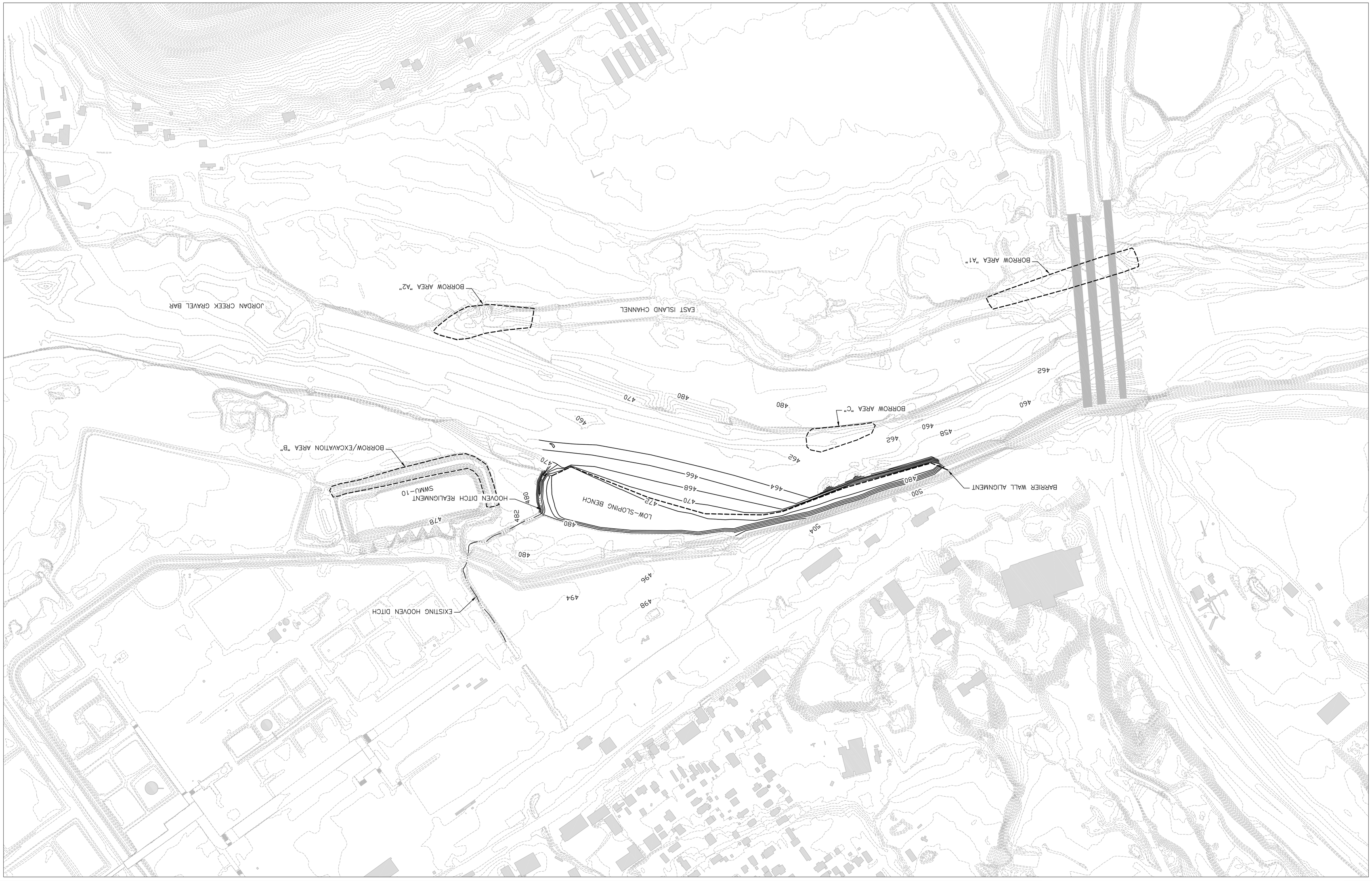

WARNING
IF THIS BAR DOES NOT MEASURE 1" IN LENGTH THEN DRAWING IS NOT AT INTENDED SCALE

REV.	DATE	DESCRIPTION	BY	CHK'D
A	12/28/2007	WORK PLAN SUBMITTAL TO EPA	REP	JGP
0	07/17/2007	PEER ASSIST	SV	JGP

REVISIONS

DRAWN BY: SV
CHECKED BY: JGP
DATE: 7/17/07
SCALE: 1" = 200'
FILE: 500REMEDYPLAN_S2

Trihydro CORPORATION
1252 Commerce Drive
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GENERAL REMEDY PLAN

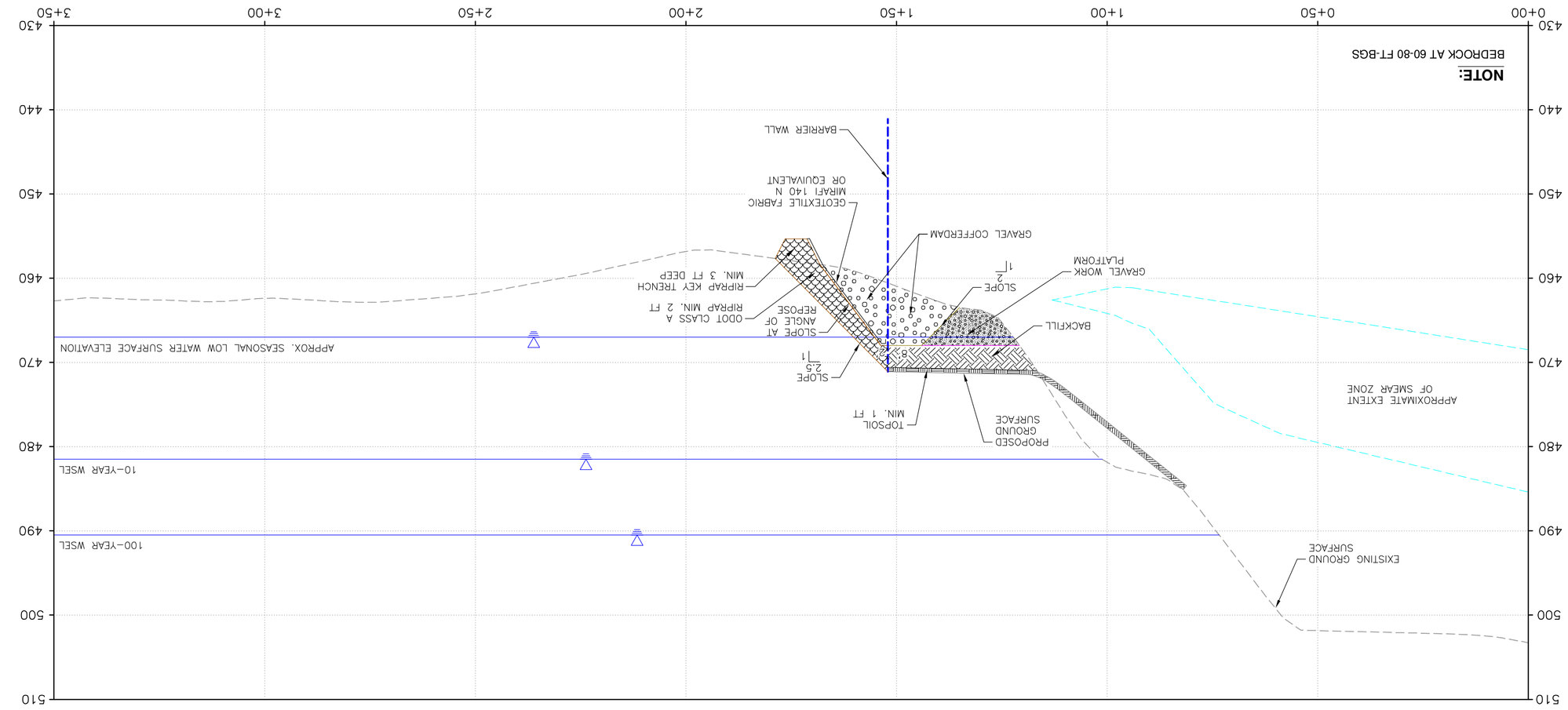
SHEET PILE BARRIER AND RIVER BANK STABILIZATION PROJECT

CHEVRON CINCINNATI FACILITY, OHIO

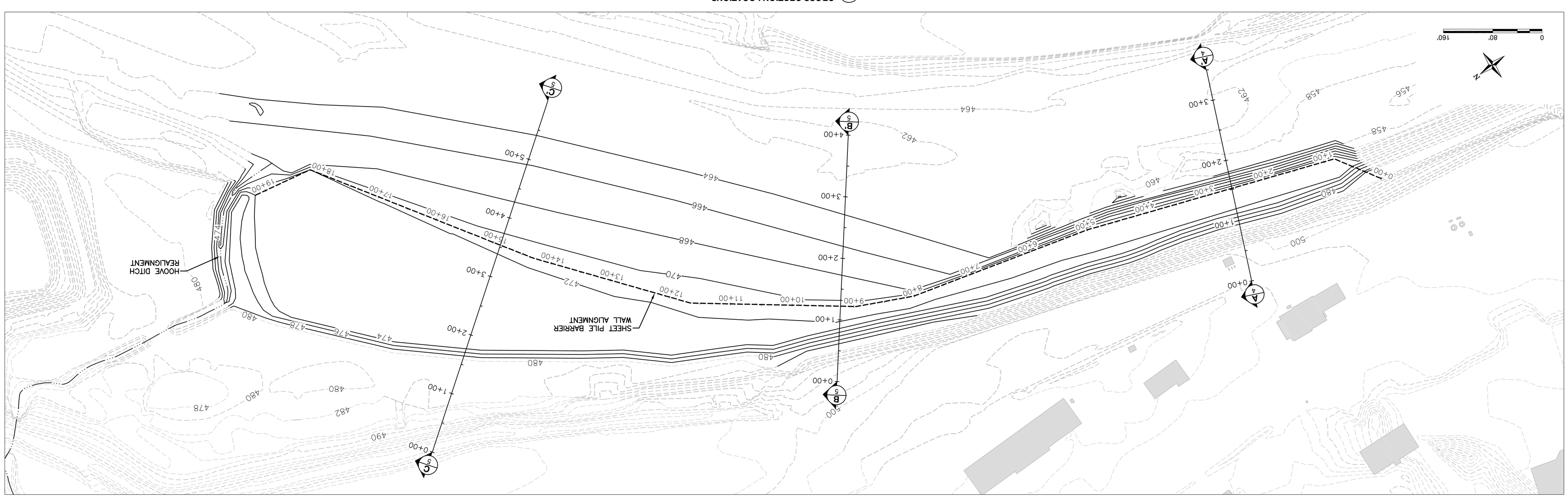
SHEET 2
2 OF 8

REV: A

US EPA ARCHIVE DOCUMENT



A CROSS SECTION A - A'
SCALE H: 1" = 20' V: 1" = 10'



1 CROSS SECTION LOCATIONS
SCALE: 1" = 80'

EXPLANATION

480	PROPOSED GROUND SURFACE (INTERVAL: 2 FT, EL: FT AMSL)
480	EXISTING GROUND SURFACE (INTERVAL: 2 FT, EL: FT AMSL)
	WATER SURFACE ELEVATION
FT AMSL	FEET ABOVE MEAN SEA LEVEL
WSEL	WATER SURFACE ELEVATION

CROSS SECTION LOCATIONS AND CROSS SECTION A-A'

SHEET PILE BARRIER AND RIVER BANK STABILIZATION PROJECT
CHEVRON CINCINNATI FACILITY, OHIO

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SHEET 3
3 OF 8
REV: A

DRAWN BY: REP
CHECKED BY: JGP
DATE: 12/28/07
SCALE: AS SHOWN
FILE: 500GMRTYPSECTIONS_S3-4

WARNING
IF THIS BAR DOES NOT MEASURE 1" IN LENGTH THEN DRAWING IS NOT AT INTENDED SCALE

REV.	DATE	DESCRIPTION	BY	CHK'D
A	12/28/2007	WORK PLAN SUBMITTAL TO EPA	REP	JGP
0	07/17/2007	PEER ASSIST	SV	JGP

REVISIONS