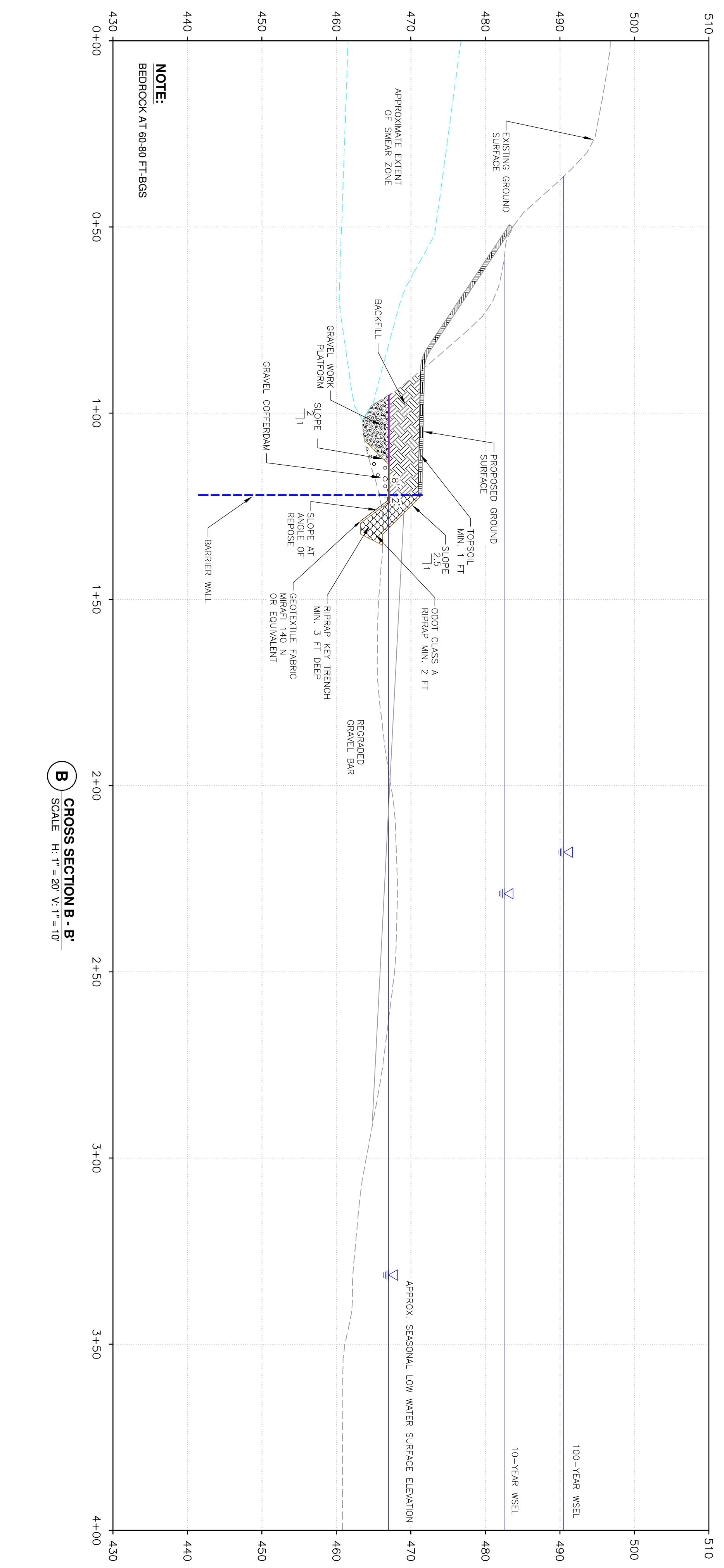


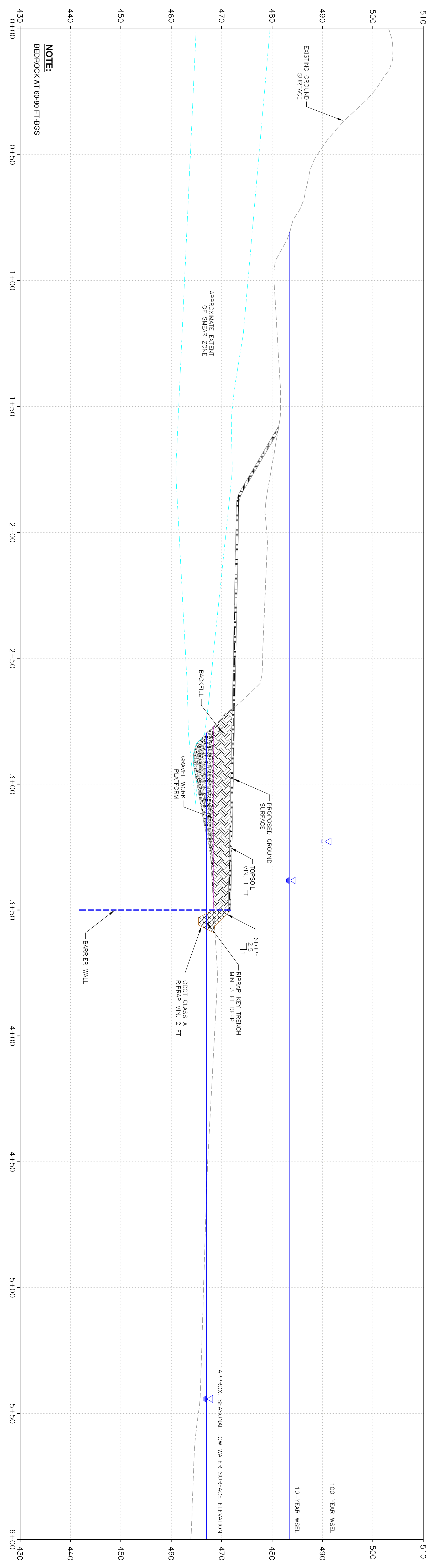
US EPA ARCHIVE DOCUMENT



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

EXPLANATION

— WATER SURFACE ELEVATION
 FT AMSL FEET ABOVE MEAN SEA LEVEL
 WSEL WATER SURFACE ELEVATION



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

EXPLANATION

— WATER SURFACE ELEVATION
 FT AMSL FEET ABOVE MEAN SEA LEVEL
 WSEL WATER SURFACE ELEVATION

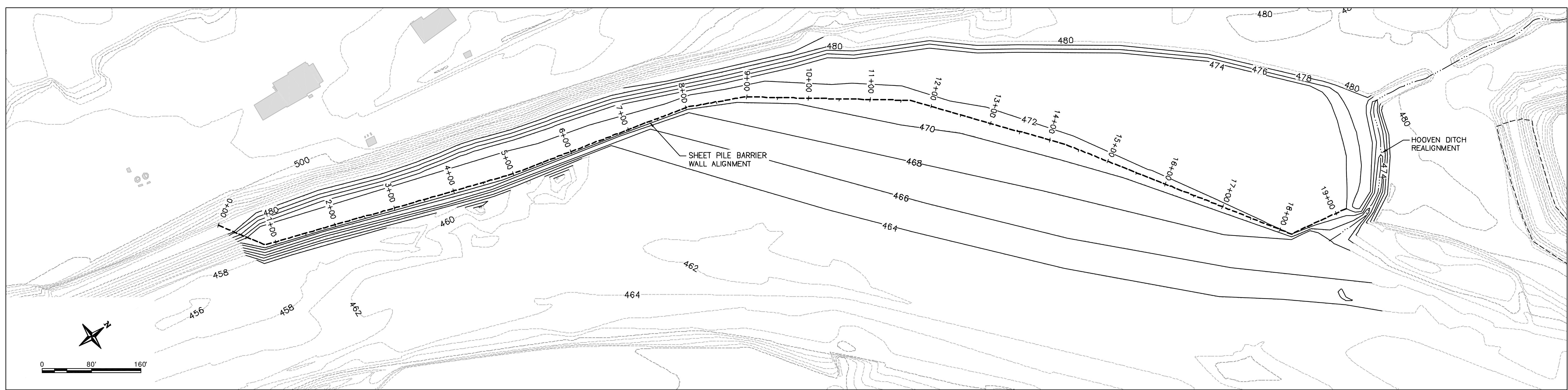
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A	12/28/2007	WORK PLAN SUBMITTAL TO EPA	REP	JGP
0	07/17/2007	PEER ASSIST	SV	JGP

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

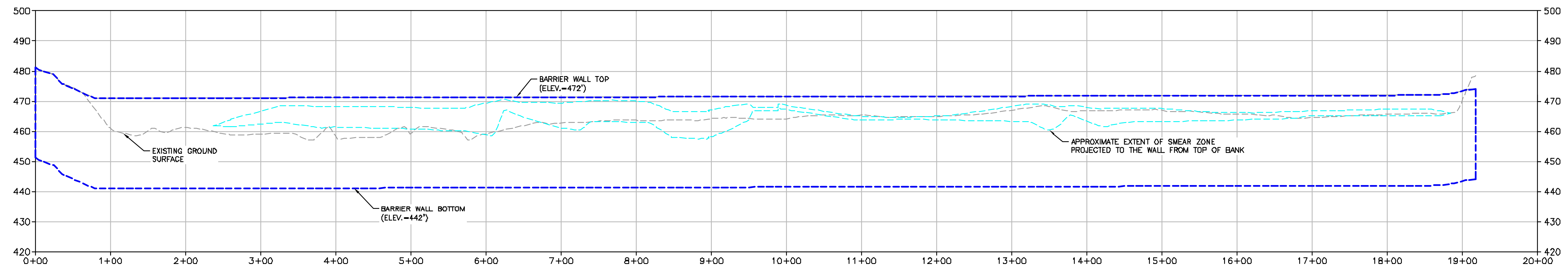
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 DATE: 12/28/07
 SCALE: AS SHOWN
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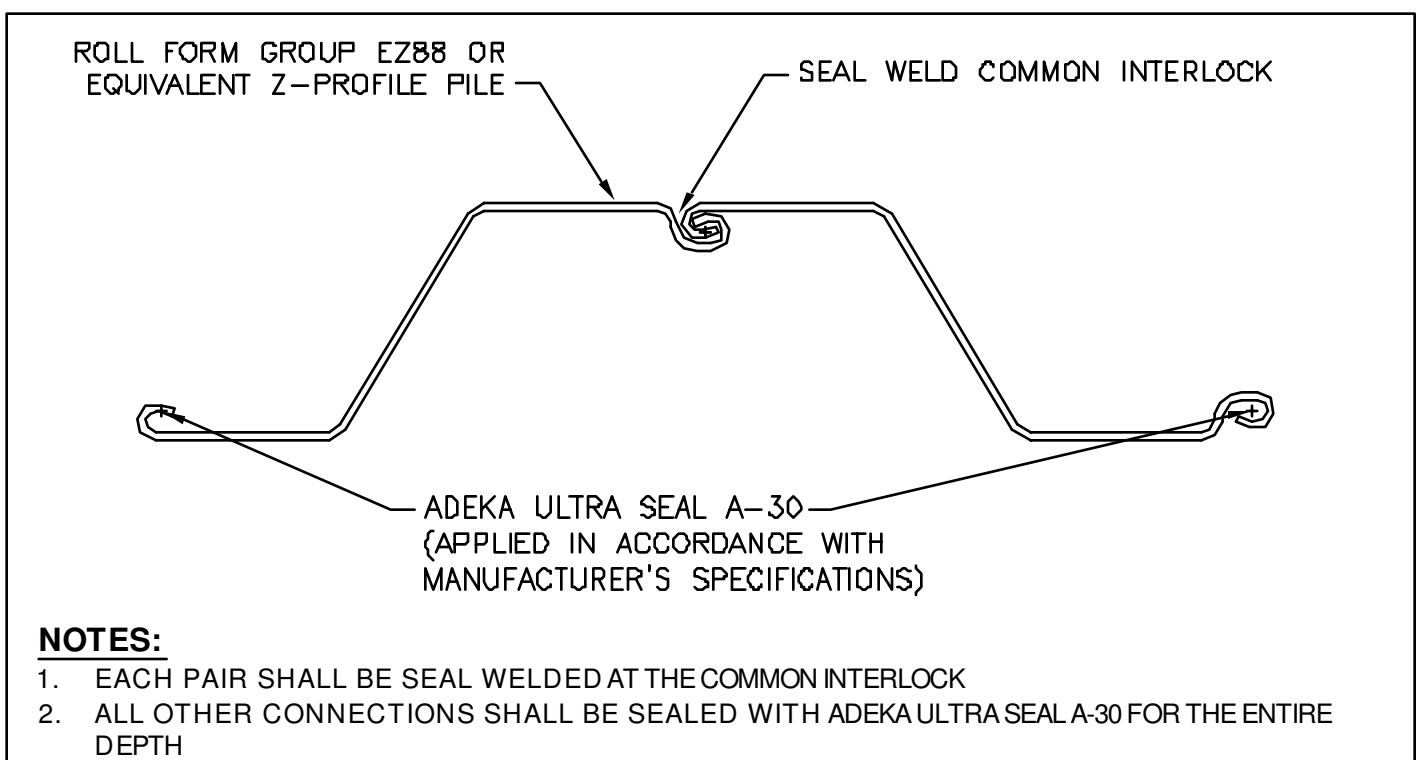
CROSS SECTION B-B' AND CROSS SECTION C-C'
SHEET PILE BARRIER AND RIVER BANK STABILIZATION PROJECT
CHEVRON CINCINNATI FACILITY, OHIO



1 SHEET PILE BARRIER PLAN
SCALE: 1" = 80'



A SHEET PILE BARRIER PROFILE
SCALE H: 1" = 80' V: 1" = 20'



NOTES:
1. EACH PAIR SHALL BE SEAL WELDED AT THE COMMON INTERLOCK
2. ALL OTHER CONNECTIONS SHALL BE SEALED WITH ADEKA ULTRA SEAL A-30 FOR THE ENTIRE DEPTH

B TYPICAL CONNECTION
SCALE: NONE

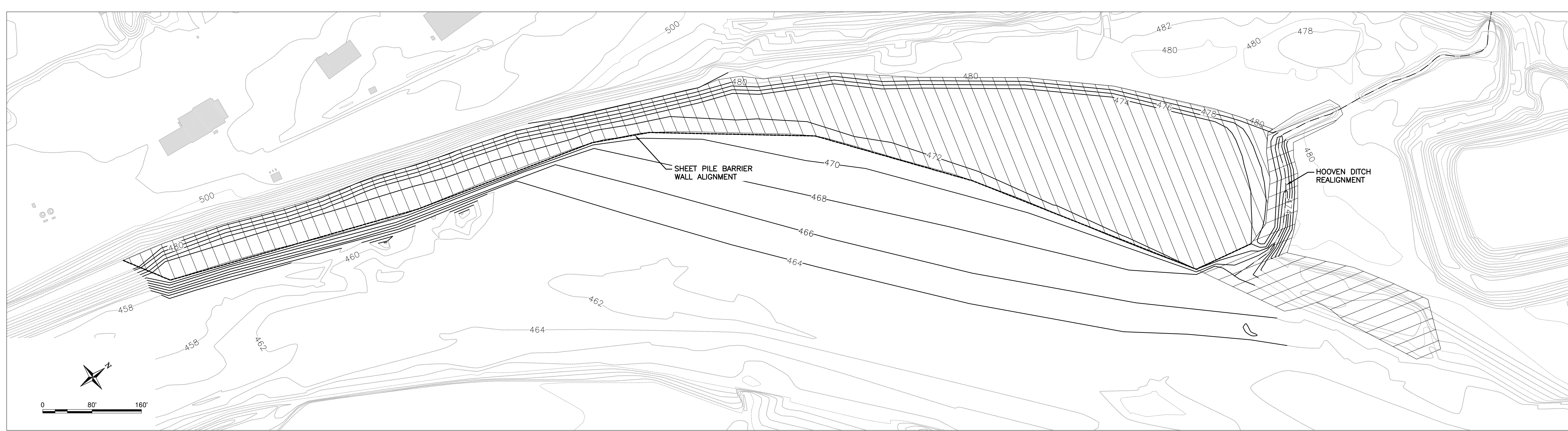
EXPLANATION

— 480 — PROPOSED GROUND SURFACE
(INTERVAL: 2 FT, EL: FT AMSL)

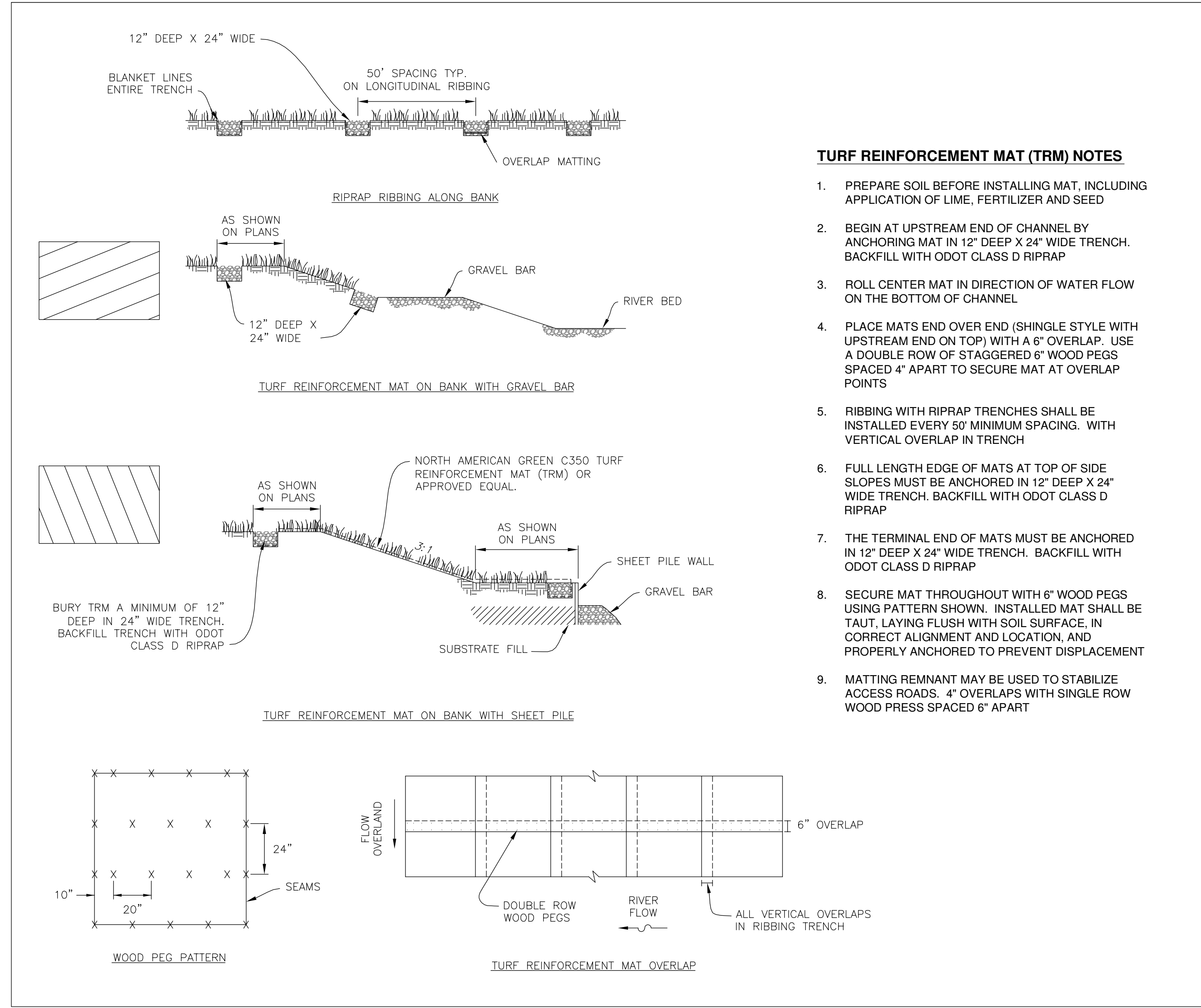
- - - 480 - - - EXISTING GROUND SURFACE
(INTERVAL: 2 FT, EL: FT AMSL)

FT AMSL FEET ABOVE MEAN SEALEVEL

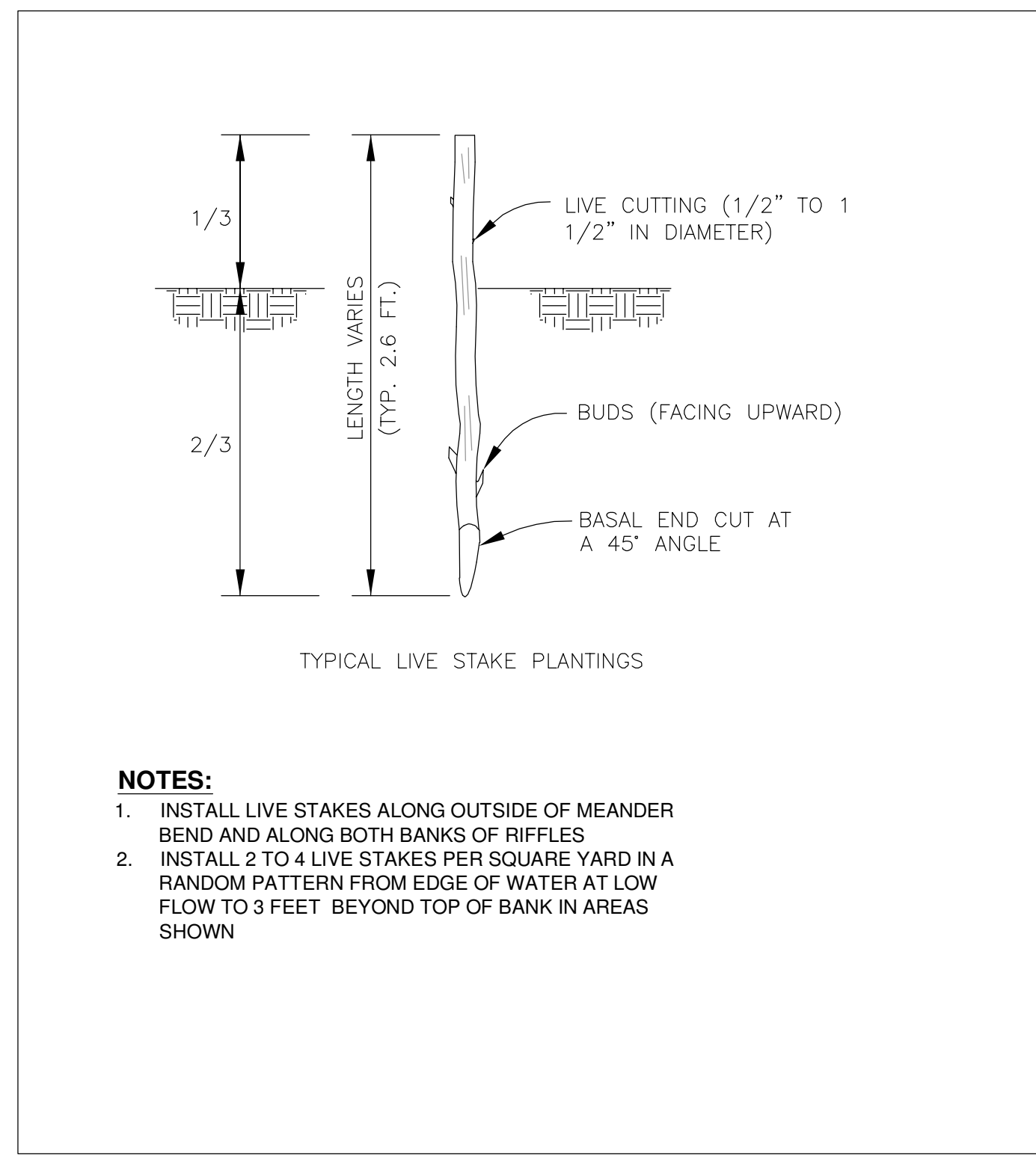
DRAWN BY: REP		CHECKED BY: JGP		DATE: 12/28/07		SCALE: AS SHOWN		FILE: 500SHEETP-LEPPD_55	
WARNING		IF THIS BAR DOES NOT MEASURE 1" IN LENGTH THEN DRAWING IS NOT AT INTENDED SCALE							
SHEET PILE BARRIER PLAN, PROFILE, AND DETAILS		SHEET PILE BARRIER AND RIVER BANK STABILIZATION PROJECT							
CHEVRON CINCINNATI FACILITY, OHIO		SHEET 5 OF 8							
REV: A		REV. DATE DESCRIPTION BY							
		A 12/28/2007 WORK PLAN SUBMITTAL TO EPA JGP							
		0 07/17/2007 PEER ASSIST SV JGP							
		REVISIONS							



1 FLOOD-TOLERANT VEGETATION PLANTING AREA
SCALE: 1" = 80'



2 EARTHEN TURF REINFORCEMENT MAT CHANNEL
SCALE: NONE



3 TYPICAL STAKE
SCALE: NONE

EXPLANATION

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

REP	JGP	BY	CHKD
SV	JGP	DATE	DESCRIPTION
0	07/17/2007	PEER ASSIST	REVISIONS
A	12/28/2007	WORK PLAN SUBMITTAL TO EPA	

WARNING

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

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CHECKED BY:	JGP	
DATE:	12/28/07	
SCALE:	AS SHOWN	
FILE:	500VEGETATION_S6	

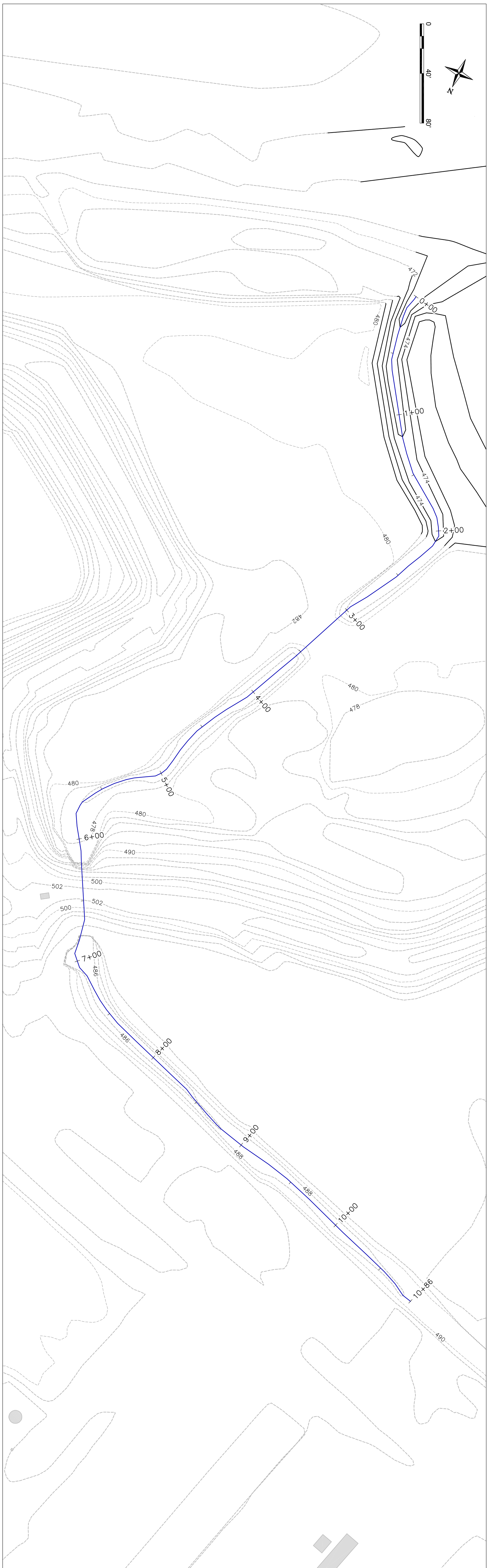


FLOOD-TOLERANT VEGETATION PLAN AND DETAILS

SHEET PILE BARRIER AND RIVER BANK STABILIZATION PROJECT

CHEVRON CINCINNATI FACILITY, OHIO

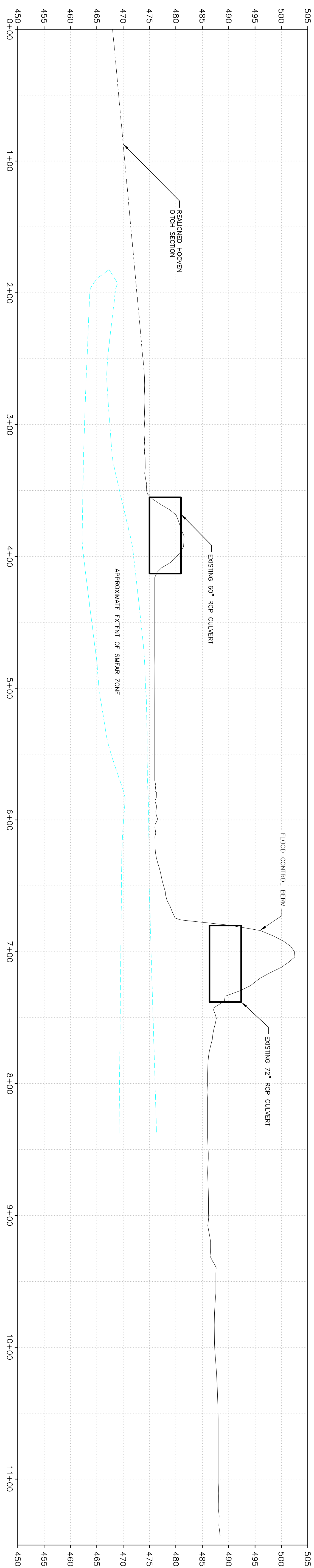
SHEET	6
6 OF 8	
REV:	A



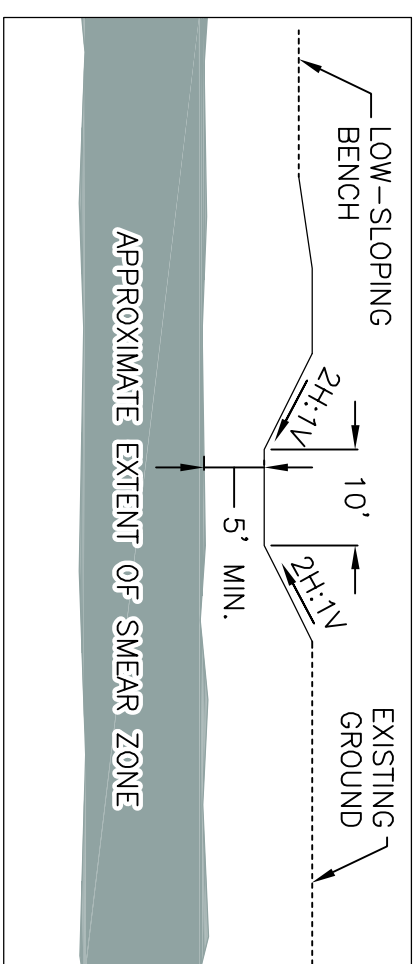
1 TYPICAL HOOVEN DITCH PLAN VIEW
SCALE: H: V = 40'

EXPLANATION

- 480 PROPOSED GROUND SURFACE (INTERVAL: 2 FT. EL.: FT. AMSL)
- 480 EXISTING GROUND SURFACE (INTERVAL: 2 FT. EL.: FT. AMSL)
- FT. AMSL FEET ABOVE MEAN SEA LEVEL



A TYPICAL HOOVEN DITCH PROFILE
SCALE: H: V = 40' V: H = 10'



B TYPICAL HOOVEN DITCH CROSS SECTION FOR REALIGNED SECTION
SCALE: H: V = 20'

SHEET
7
7 OF 8

**HOOVEN DITCH REALIGNMENT PLAN,
PROFILE AND TYPICAL CROSS SECTION**

**SHEET PILE BARRIER AND RIVER BANK
STABILIZATION PROJECT**

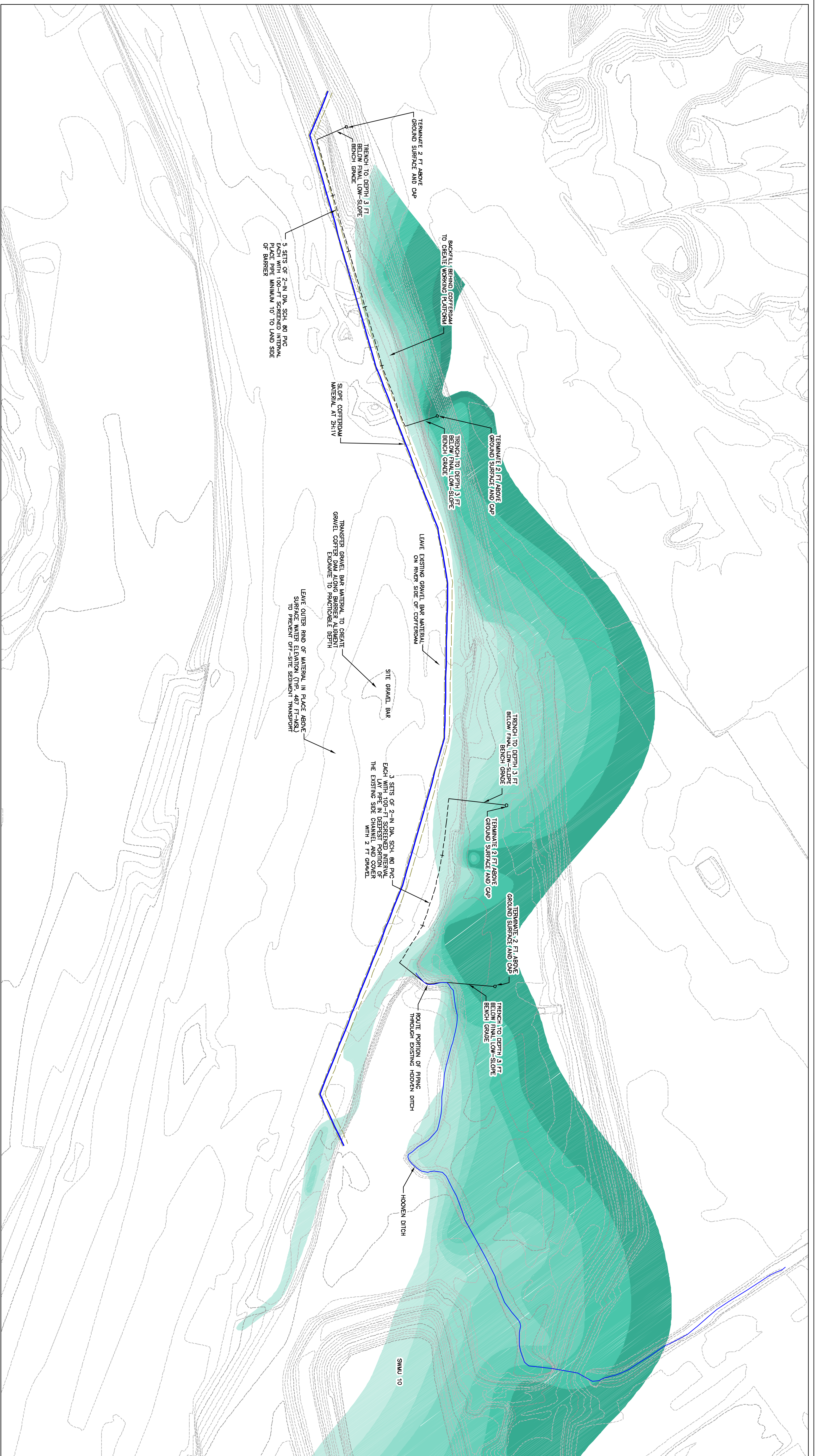
CHEVRON CINCINNATI FACILITY, OHIO



DRAWN BY: REP
CHECKED BY: JGP
DATE: 12/28/07
SCALE: AS SHOWN
FILE: 500HD_REALIGN_S7

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

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A	12/28/2007	WORK PLAN SUBMITTAL TO EPA	REP	JGP
0	07/17/2007	PEER ASSIST	SV	JGP

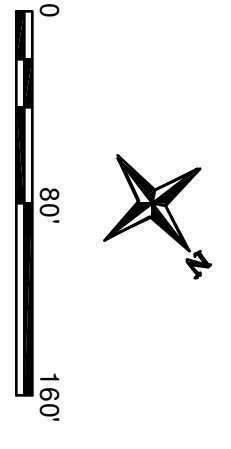


EXPLANATION

- SHEET PILE BARRIER WALL ALIGNMENT
- HORIZONTAL AIR SPARGE PIPING
- HORIZONTAL AIR SPARGE PIPING, SCREENED
- GRAVEL COFFER DAM BOUNDARY
- EXISTING GROUND SURFACE (INTERVAL: 2 FT. E, FT/MS)
- FEET ABOVE MEAN SEA LEVEL
- APPROXIMATE

SHEAR ZONE THICKNESSES IN FEET

0-2 FT
2-4 FT
4-6 FT
6-8 FT
8-10 FT
10-12 FT
12-14 FT
14-16 FT



SHEET 8 8 OF 8	HORIZONTAL AIR SPARGE PIPING AND COFFER DAM LAYOUT		 1252 Commerce Drive Laramie, Wyoming 82070 www.trihydro.com (307) 746-7474 (307) 745-7729	DRAWN BY: REP CHECKED BY: JGP DATE: 12/28/07 SCALE: 1" = 80' FILE: 500AIRSPARGE_S8	WARNING IF THIS BAR DOES NOT MEASURE 1" IN LENGTH THEN DRAWING IS NOT AT INTENDED SCALE				
	REV: A	SHEET PILE BARRIER AND RIVER BANK STABILIZATION PROJECT CHEVRON CINCINNATI FACILITY, OHIO							
						A 12/28/2007 WORK PLAN SUBMITTAL TO EPA 0 07/17/2007 PEER ASSIST	REP JGP SV JGP		
						REV. DATE DESCRIPTION REVISIONS	BY CHK'D		