

NOTES

1. TOPOGRAPHY PROVIDED BY HEIDORSON AERIAL SURVEYS INC (GROVE CITY, OHIO) ON 11/14/13. SURVEY PERFORMED ON MARCH 9, 2007 WITH CONTOUR INTERVAL OF 2 FT. SURVEY POINTS ARE IDENTIFIED BY THE MAIN DAM ON 8/23/10 AND IN THE BACK SECTION OF THE POND ON 4/17/12. ASH AREAS ESTIMATED BASED ON A SURVEY PERFORMED BY AEP IN APRIL 2013.
2. THE FINAL ELEVATION OF THE COP MATERIAL AT CLOSURE IS HIGHLY DEPENDENT UPON HOW AND THE TIME OF CLOSURE. THIS IS DIRECTLY RELATED TO LOGGING OTHER REFINERY POWER PLANTS AND THE ASH CONTENT OF THE COAL BURIED UNDER THE CONTOURS. THE REMAINING LIFE OF THE BIG SANDY PLANT.
3. THE CLOSURE GRADIENTS PRESENTED ARE BASED ON ESTIMATES OF THE AMOUNT OF ASH TO BE PRODUCED BETWEEN THE MOST PROBABLY OCCURRING CLOSURE SCENARIOS. CLOSURE GRADIENTS INDICATED ARE INTENDED TO REPRESENT THE GENERAL GRADING GRADIENTS FOR PORTIONS OF THE FACILITY FOOTPRINT OR THE ENTIRE FOOTPRINT MAY BE REQUIRED TO REPRESENT THE GRADIENTS. IT WILL HAVE A TYPICAL GRADE OF APPROXIMATELY 2% TO 3% OF THE GRADE OF APPROXIMATELY 22%.
4. FOR BORING LOCATIONS AND INFORMATION SEE THE HYDROLOGICAL SITE REPORT APPENDIX 33 OF THE PERMIT APPLICATION.

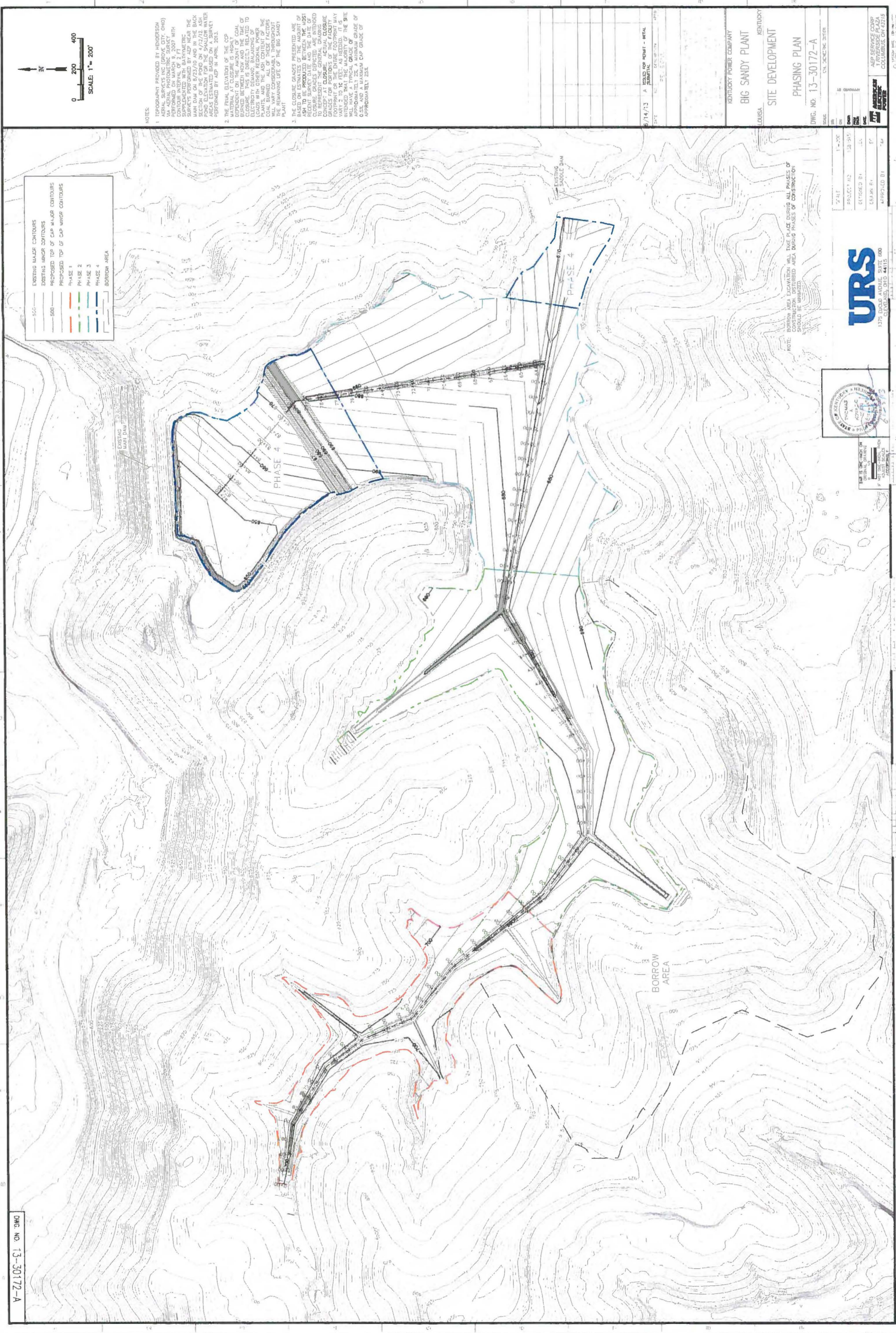
LEGEND

- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- ASB PROPERTY BOUNDARY
- EXISTING METLAND
- EXISTING STREAM
- EXISTING WATER ELEVATION
- EXISTING VEGETATION
- EXISTING ROAD
- HOUSING/MONITORING WELL LOCATION
- LIMIT OF DISTURBANCE
- PROPOSED BORROW AREA

KENTUCKY POWER COMPANY
BIG SANDY PLANT
LOUISIANA
CURRENT SITE CONDITIONS
ATTACHMENT 20
DWG. NO. 13-30161-A
AEP SERVICE CORP
7 FREDERICK PLAZA
COLUMBUS, OH 43215



DWG. NO. 13-30161-A



NOTES:

1. TOPOGRAPHY PROVIDED BY HEDDERSON SURVEYING AND ENGINEERING (OHIO) AND Aerial Photogrammetric Survey PERFORMED ON MARCH 9, 2007 WITH CONTOUR INTERVAL OF 5 FEET. METRIC SURVEYS PERFORMED BY ASP NEAR THE MAIN DAM ON 8/23/10 AND IN THE BACK DAM AREA ON 8/23/10. SHALLOW WATER POOL ELEVATIONS FOR THE SHALLOW WATER AREAS ESTIMATED BASED ON A SURVEY PERFORMED BY ASP IN APRIL 2011.
2. THE FINAL ELEVATION OF THE COP DEPENDS ON THE QUANTITY OF COAL BURNED BETWEEN NOW AND THE TIME OF CLOSURE. THIS IS DEPENDENT ON THE LOADS WITH OTHER REGIONAL POWER PLANTS AND THE ASH CONTENT OF THE WASTE. THE ASH CONTENT OF THE WASTE WILL VARY THROUGHOUT THE REMAINING LIFE OF THE BIG SANDY PLANT.
3. THE CLOSURE GRADES PRESENTED ARE TO BE PRODUCED BETWEEN THE LATEST RECENT SURVEY DATE AND THE DATE OF CLOSURE. THE CLOSURE GRADES ARE TO REPRESENT THE GENERAL DRAINAGE CONCEPT AT CLOSURE. ACTUAL CLOSURE FOOTPRINT OR THE ENTIRE FOOTPRINT MAY VARY 2 TO 10 FEET, AS NEEDED. IT IS UNDERSTOOD THAT THE TYPICAL GRADE OF APPROXIMATELY 2% A MINIMUM GRADE OF 0.5% AND A MAXIMUM CAP GRADE OF APPROXIMATELY 1.5%.

EXISTING MAJOR CONTOURS
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 9500
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 9850
 9900
 9950
 10000

DATE	5/14/13	BY	AS
PROJECT	BIG SANDY PLANT		
PHASE	PHASING PLAN		
SCALE	1" = 200'		

KENTUCKY POWER COMPANY
 BIG SANDY PLANT
 LOUISA, KENTUCKY
 SITE DEVELOPMENT
 PHASING PLAN
 DWG. NO. 13-30172-A

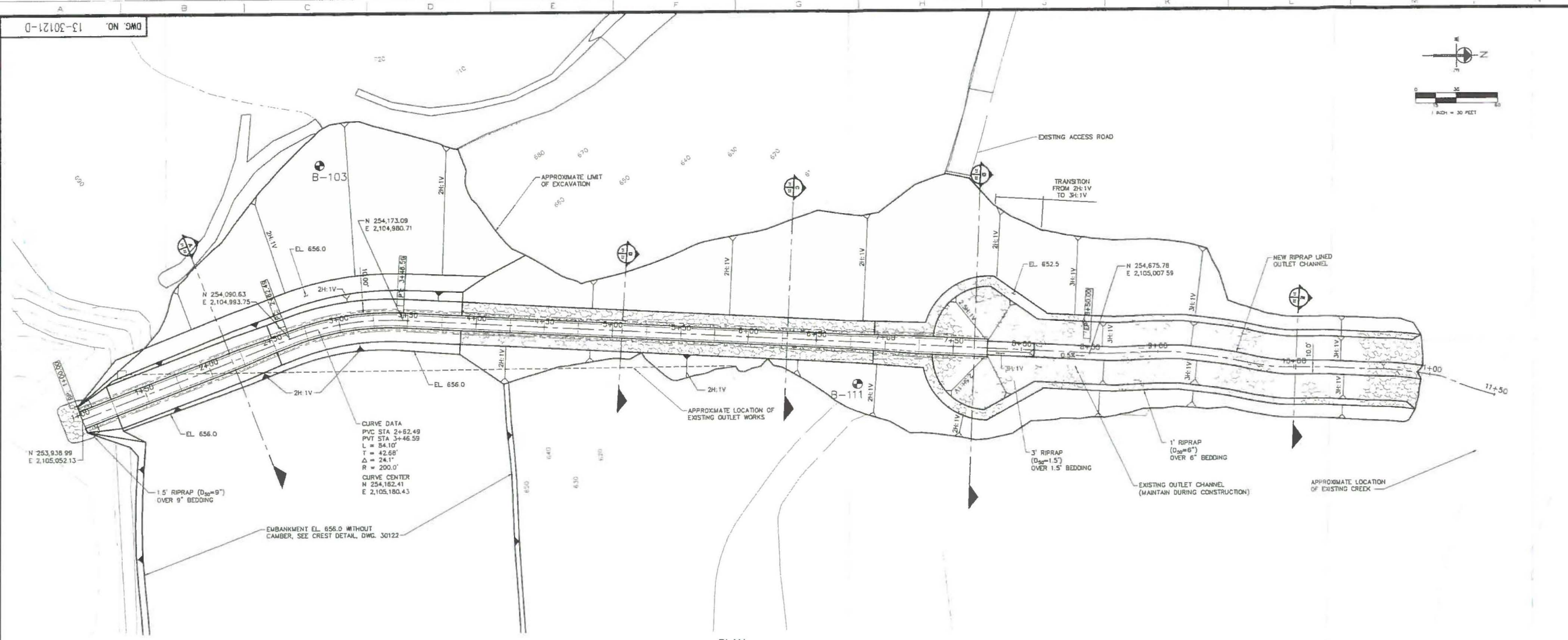
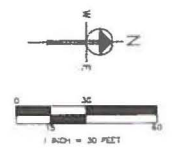


1375 EURO AVENUE, SUITE 600
 CLEVELAND, OHIO 44115
 URS CORPORATION
 10000 EAST AVENUE, SUITE 100
 CLEVELAND, OHIO 44130

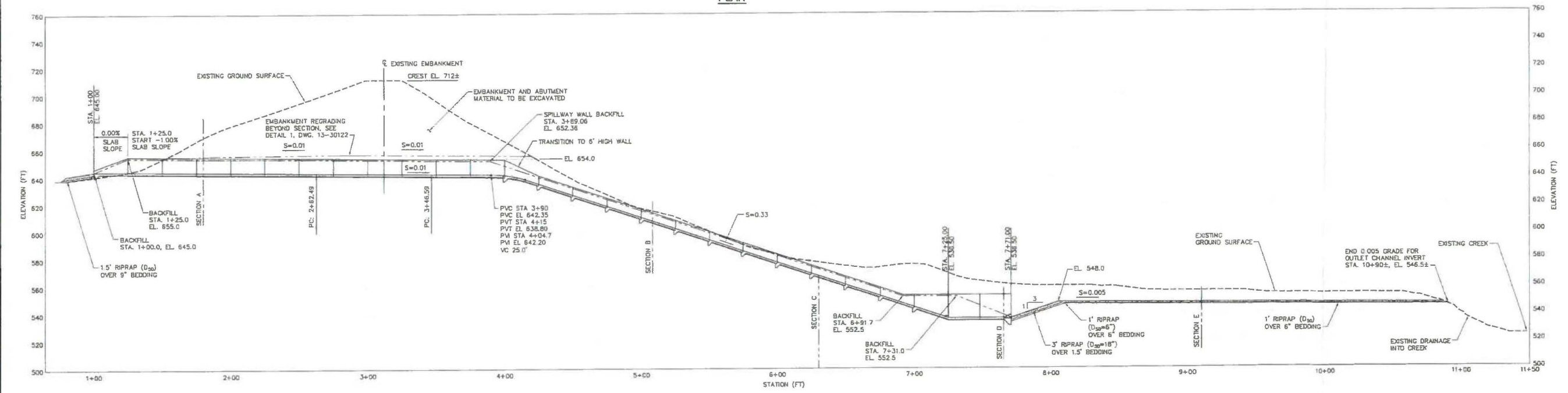


NOTE: BORROW AREA EXCAVATION WILL TAKE PLACE DURING ALL PHASES OF CONSTRUCTION. BORROW AREA EXCAVATION SHOULD BE UNOBTAINED DURING PHASES OF CONSTRUCTION.

DWG. NO. 13-30172-A



PLAN



PROFILE



LEGEND
BORING

DATE	NO.	DESCRIPTION	BY
06/05/13	D	100% SUBMITTAL-URS	
04/26/13	C	90% SUBMITTAL-URS	
02/20/13	B	70% SUBMITTAL-URS	
12/03/12	A	30% SUBMITTAL-URS	

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KENTUCKY POWER COMPANY
BIG SANDY PLANT
LOUISA KENTUCKY

SPILLWAY
PLAN AND PROFILE

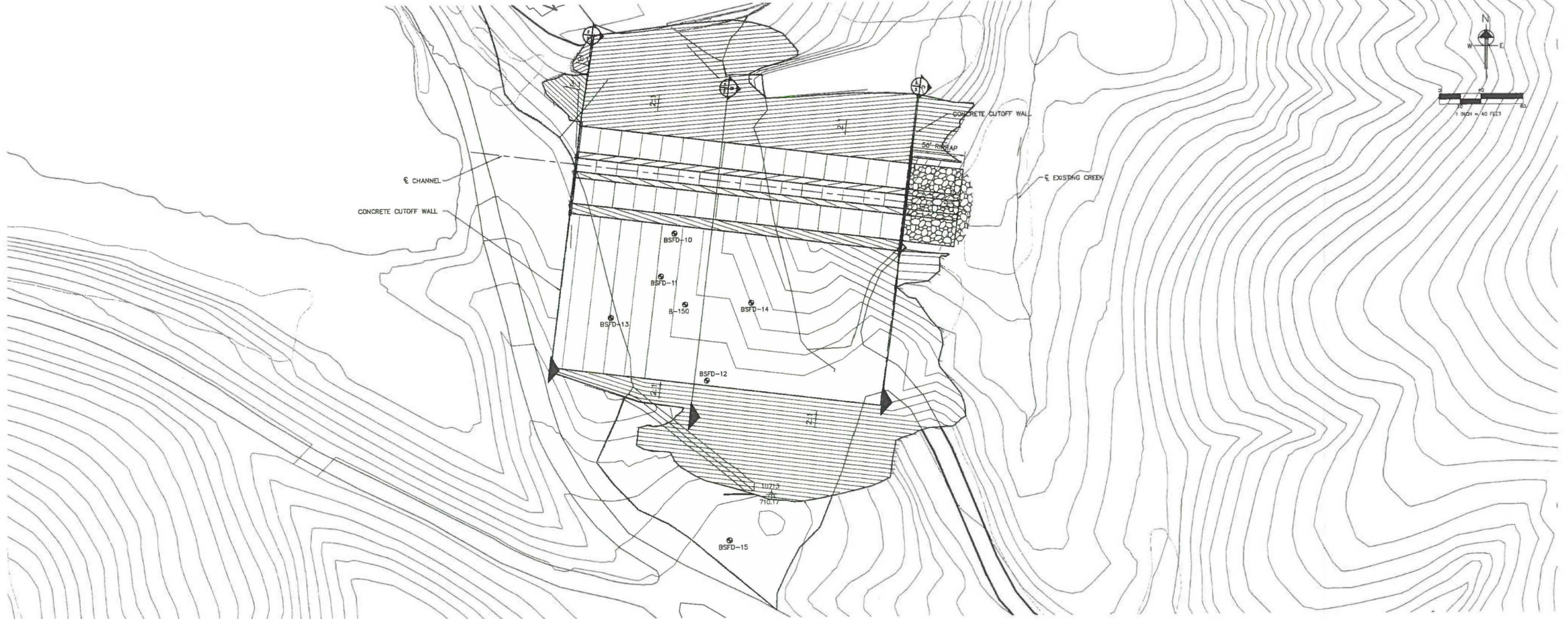
DWG. NO. 13-30121-D

SCALE	1" = 30'
PROJECT NO.	13B15151
DESIGNED BY	CJY
DRAWN BY	WJH
APPROVED BY	TAK



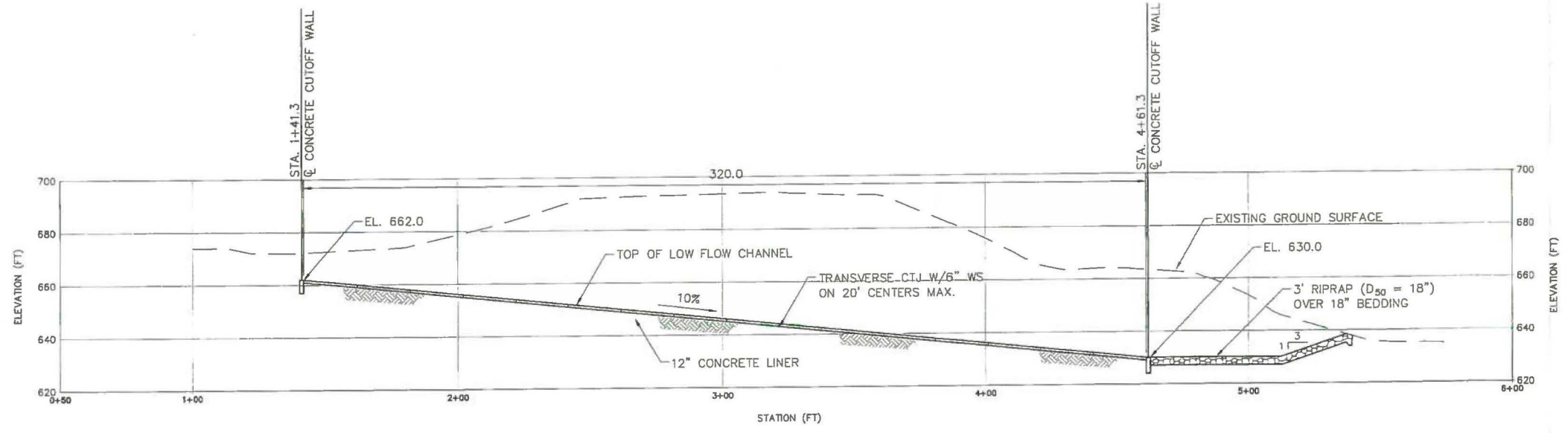
AEP SERVICE CORP
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

I:\Projects\13B15151\13B15151\Drawings\13-30121-D.dwg 9/2/2013 1:52:28 PM



PLAN

LEGEND
 ⊕ BORING



PROFILE

1 INCH = 20 FEET

DATE	NO.	DESCRIPTION	APPD.
06/05/13	D	100% SUBMITTAL-URS	
04/26/13	C	90% SUBMITTAL-URS	
02/20/13	B	70% SUBMITTAL-URS	
12/03/12	A	30% SUBMITTAL-URS	

REVISIONS

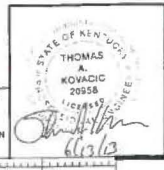
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KENTUCKY POWER COMPANY
 BIG SANDY PLANT
 LOUISA KENTUCKY

SADDLE DAM OUTLET
 PLAN AND PROFILE

DWG. NO. 13-30144-D

SCALE:	1" = 20'
PROJECT NO.:	13815151
DESIGNED BY:	CJT
DRAWN BY:	NDH
APPROVED BY:	TAK



MAX IS ONE-INCH ON ORIGINAL DRAWING
 IF NOT ONE-INCH, THEN ADJUST SCALES ACCORDINGLY