

A. B. Brown History of Construction
40 CFR § 257.73 (c)

- (i.) Owner Name: Southern Indiana Gas and Electric Company dba Vectren Power Supply
Owner Address: One Vectren Square, PO Box 209, Evansville, IN 47708
CCR Unit Name: A. B. Brown Ash Pond
Identification Number: not applicable

- (ii.) Location: West Franklin Quadrangle, Posey County, Indiana;
Section 24, Township 7S, Range 12W

- (iii.) Purpose of CCR Unit:
The A. B. Brown Ash Pond receives the discharge from the Physical-Chemical Waste Water Treatment System which processes waters from landfill run-off and wash water used to spray off the filter cake belt filter and filter cake truck loading bays from both scrubbers; south side runoff pond water consisting of coal pile run-off, boiler water pretreatment system, reverse osmosis reject, water treatment filter & softener backwash, boiler blow down, precipitator & ash pit area floor drains, air heater wash, the hopper seal & ash hopper overflow, storm water, coal trestle dust suppression system, coal handling French drain, coal handling and sanitary waste from the coal handling area and SIMI building, and the East Ditch Drain; storm water; water from plant floor drains; bottom ash; and intermittently fly ash.

The ash pond has a further purpose of serving as the source water for the cleaning of the filter cake belt filter and truck loading bays. These waters recirculate back to the ash pond after passing through the aforementioned physical-chemical treatment system. Additionally, the Hydroveyor system used to move dry fly ash to the load out facility at the river requires a vacuum which is created by the flow of water which is created by recirculating water in the ash pond.

- (iv.) Watershed size and name: The drainage area is 242.4 acres. The pond is located within the Ohio River watershed. (2016 Inflow Design Plan)

- (v.) Foundation Properties:
The foundation soils consist of interbedded stiff to very stiff clay and loose to medium dense silt soils (2016 Structural Stability Assessment). The dam was constructed across a western end of a natural valley. (see ABB Civil Plan 1974 in section vii)

- (vi.) CCR Unit Construction:
Construction drawings required the embankment be compacted to 95% of the Standard Proctor maximum dry density (ASTM D 698). Based on geotechnical field evaluations, the dam embankment consists of stiff to very stiff clayey soils that have consistency and strength indicative of well-compacted materials. The soil buttress that exists against the downstream slope of the dam was constructed in 8-inch loose lifts and was mechanically compacted to at least 95% Standard Proctor maximum dry density. (2016 Structural Stability Assessment) In 2003, an Emergency Spillway was added to the far southern end of the dam to supplement the original Principal Spillway. The emergency spillway was cut into native soils to an elevation of 447 ft and protected by riprap (see ABB

Lower Dam Emergency Spillway 2003 in section vii). The pond was created by damming a natural valley and the base of the pond is native soils. The ABB Pre Plant 1957 Topo listed below shows original natural contours.

(vii.) Construction Drawings:

Drawings of the original dam construction and modifications are listed below.

ABB Site 1974 Civil Plan	ABB 1974 Lower Dam Engineering Plan
ABB Lower Dam Profile and Storage Curve	ABB Lower Dam Principal Spillway
ABB Lower Dam Construction Drawing	ABB 2003 Emergency Spillway
ABB Lower Dam 2016 Post Buttress Plan and Cross Section	
ABB Pre Plant 1957 Topo	

(viii.) Instrumentation: No instrumentation is present.

(ix.) Area Capacity Curve: The original storage capacity curve is listed on the ABB Lower Dam Profile and Storage Curve drawing identified above.

(x.) Spillway Description:

The principal spillway is a 36" reinforced concrete pipe with an invert elevation of 444 ft. Peak flow rate during a 1000 year, 24-hour storm event is 38.8 cfs. Calculations to determine the flowrate can be found in the 2016 Inflow Design Flood Control System Plan posted on the A. B Brown CCR webpage. The construction is further described on the ABB Lower Dam Principal Spillway drawing listed above.

The emergency spillway is a 30' wide trapezoidal channel cut into native soils and lined with rip rap for erosion protection. Based on calculations from the 2016 Inflow Design Flood Control System Plan posted on the A. B Brown CCR webpage, the design storm event will not reach the elevation of the emergency spillway and therefore the peak flow rate is 0 cfs. The construction is further described on the ABB Lower Dam Emergency Spillway 2003 drawing listed above.

(xi.) Surveillance, Maintenance and Repair:

The dam is inspected weekly as required by the CCR regulation 40 CFR § 257.83(a)(i). Deficiencies are either identified as requiring additional observation or entered into a Work Order request to trigger repairs. Water surface elevation is remotely monitored through a level indicator which is set to alarm in the Control Room if the water level is within 0.5 ft of the Principal Spillway elevation. The system also alarms if the water level drops below 440.5 ft. The plant routinely monitors weather forecasts to prepare the pond for predicted high precipitation events. Video cameras or other surveillance technologies are not present.

(xii.) Record of Structural Instability:

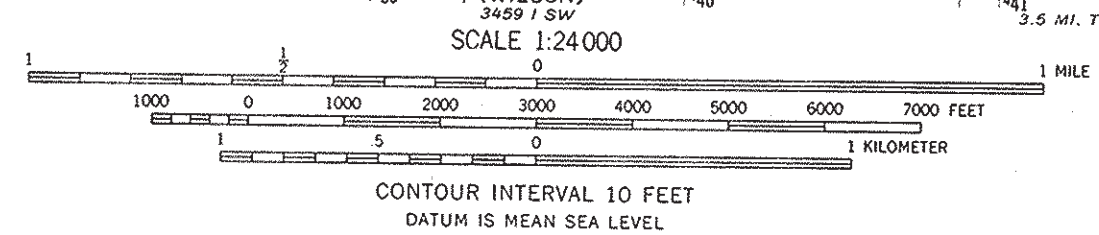
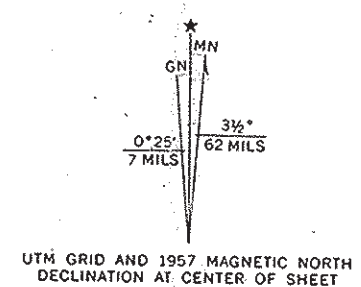
Extensive information on the stability of the dam and foundation can be found in the 2016 Structural Stability Assessment and 2016 Safety Factor Assessment documents posted on the A. B. Brown CCR webpage. In 2016, a 190,000 cy yd stabilizing buttress was constructed against the downstream slope of the dam to address potential seismic consideration. The buttress crest is up to 200 ft wide and varies in elevation from 432 ft

to 444 ft. The buttress was installed to insure Safety Factor criteria were met and was not in response to a suspected instability.

NOTE: Information in the History of Construction is based on information that was reasonably and readily available. The CCR rule does not require owners of existing surface impoundments to generate new information or provide anecdotal or speculative information regarding the design or construction history. (Final Rule Preamble, Fed Reg 80, page 21380)



Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and USCE
Culture and drainage in part compiled from aerial photographs
taken 1950 (Kentucky) and 1956 (Indiana). Indiana topography
by photogrammetric methods and planetable surveys 1957.
Kentucky topography by planetable surveys 1952. Revised 1957
Polyconic projection. 1927 North American datum
10,000-foot grids based on Indiana coordinate system, west zone,
and Kentucky coordinate system, south zone 1000-meter Universal
Transverse Mercator grid ticks, zone 16, shown in blue
The state boundary as shown represents the approximate
position of the low waterline as determined from
U. S. Department of the Army, Corps of Engineers, Ohio
River charts, surveyed 1912, and supplementary information
Fine red dashed lines indicate selected fence and field lines
visible on aerial photographs. This information is unchecked
All wells shown are oil wells



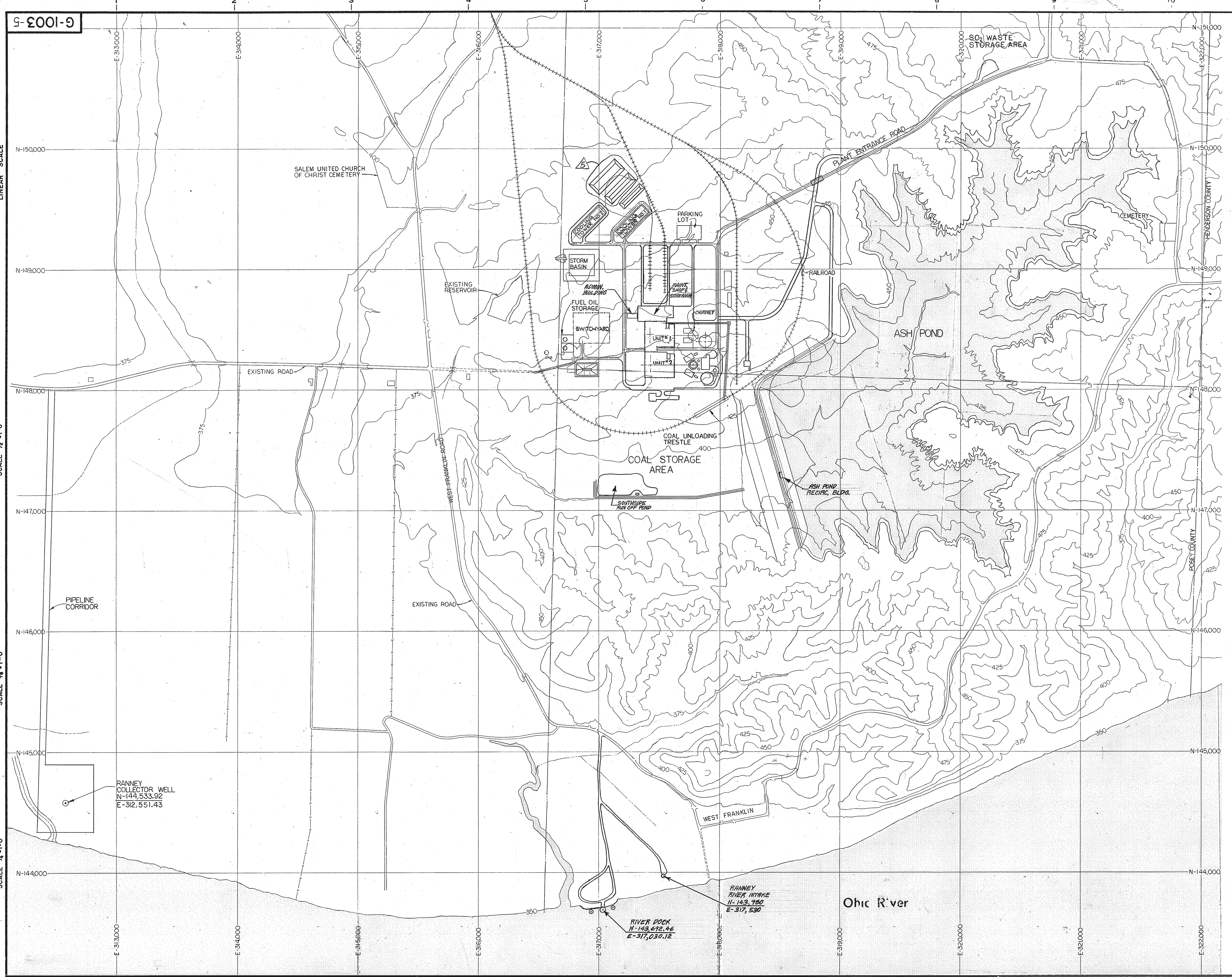
ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
State Route	

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242,
INDIANA DEPARTMENT OF CONSERVATION, INDIANAPOLIS, INDIANA,
KENTUCKY GEOLOGICAL SURVEY, LEXINGTON, KENTUCKY,
AND KENTUCKY DEPARTMENT OF COMMERCE, FRANKFORT, KENTUCKY
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

WEST FRANKLIN, IND.-KY.
NW 1/4 HENDERSON 15' QUADRANGLE
N 3752.5-W 8737.5/7.5
1957
AMS 3459 I NW--SERIES V851

G-1003-G



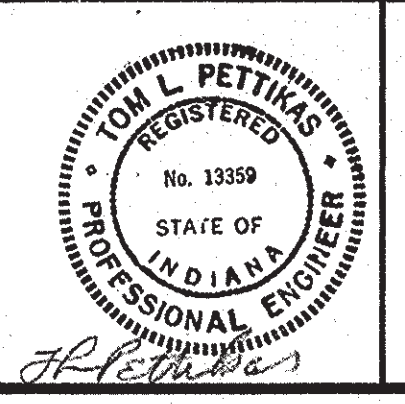
NO.	DATE	REVISION	BY	CHK.	APP.
6	10-08-87	ADDED RIVER INTAKE & RIVER POND ET. AL.			
5	2-20-86	REVISED BASINS			
4	10-21-83	REVISED AS NOTED FOR UNIT NO. 2			
3	3-20-81	ISS. FOR CONSTRUCTION PER MV LTR GISELR			
2	5-23-80	ADDED UNIT #2 / ISSUED FOR BLD'G PERMIT			
1	5-2-80	REV. A.S. BUILT - UNIT #1			
0	5-2-77	ISSUED FOR CONSTRUCTION			

DRAWN
J. Brodheimer

CHECKED
RADIRKSEN

APPROVED
J. Brodheimer 5-2-77

CUSTOMER APP.



MID-VALLEY, INC.
ENGINEERS - CONSTRUCTORS
OAK BROOK, ILLINOIS

SOUTHERN INDIANA GAS & ELECTRIC CO.
EVANSVILLE, INDIANA
A.B. BROWN STATION
UNIT NO. 1&2

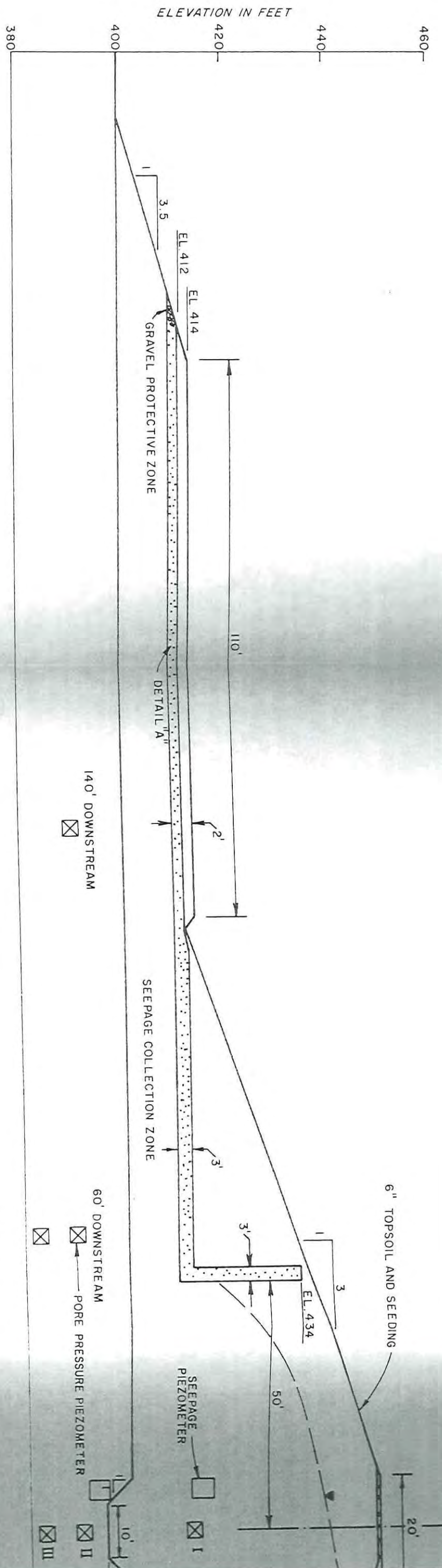
DRAWING TITLE
CIVIL
SITE PLAN

CONTRACT NO.
CP-0013

DATE: MAY 1, 1976

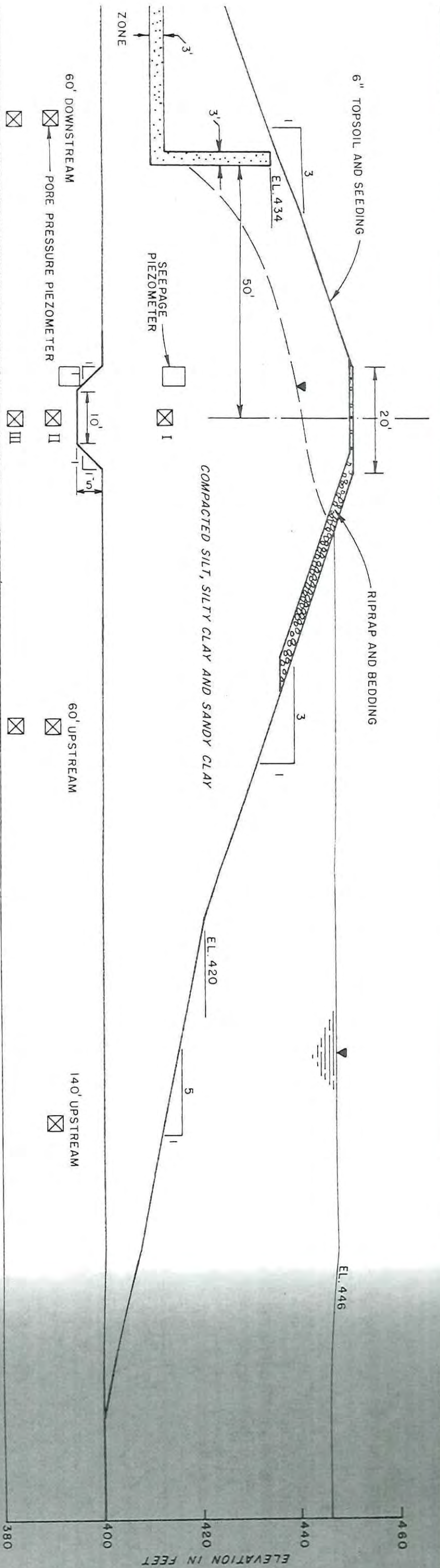
SCALE: 1" = 300'

DRAWING NO.
G-1003-G



NOTES:

1. Compact embankment fill to at least 92% of maximum standard density
2. Compact railroad subgrade above sand drainage zone to 95% modified maximum density
3. Compact horizontal sand drainage zone 6 passes of 25 ton rubber tired roller on to each 12 inch lift. Compact vertical zone with hand tampers
4. Sand drainage zone should be nonplastic and have less than 10% passing sieve
5. Slope sand drainage zone to daylight or slope in areas where berm is not required downstream surface grade is above El. 430.
6. Sand drainage zone not required for embankment sections where downstream surface grade is above El. 430.



NOTES:

1. Compact embankment fill to at least 92% of maximum standard density
2. Compact railroad subgrade above sand drainage zone to 95% modified maximum density
3. Compact horizontal sand drainage zone with 6 passes of 25 ton rubber tired roller applied to each 12 inch lift. Compact vertical sand zone with hand tampers
4. Sand drainage zone should be nonplastic, well graded and have less than 10% passing No. 200 sieve
5. Slope sand drainage zone to daylight at toe of slope in areas where berm is not required or downstream surface grade is above El. 414
6. Sand drainage zone not required for embankment sections where downstream surface grade is at or above El. 430.

Pore Pressure Piezometers

Type	Tip Elevation
I	400
II	380
III	10' below top of shale

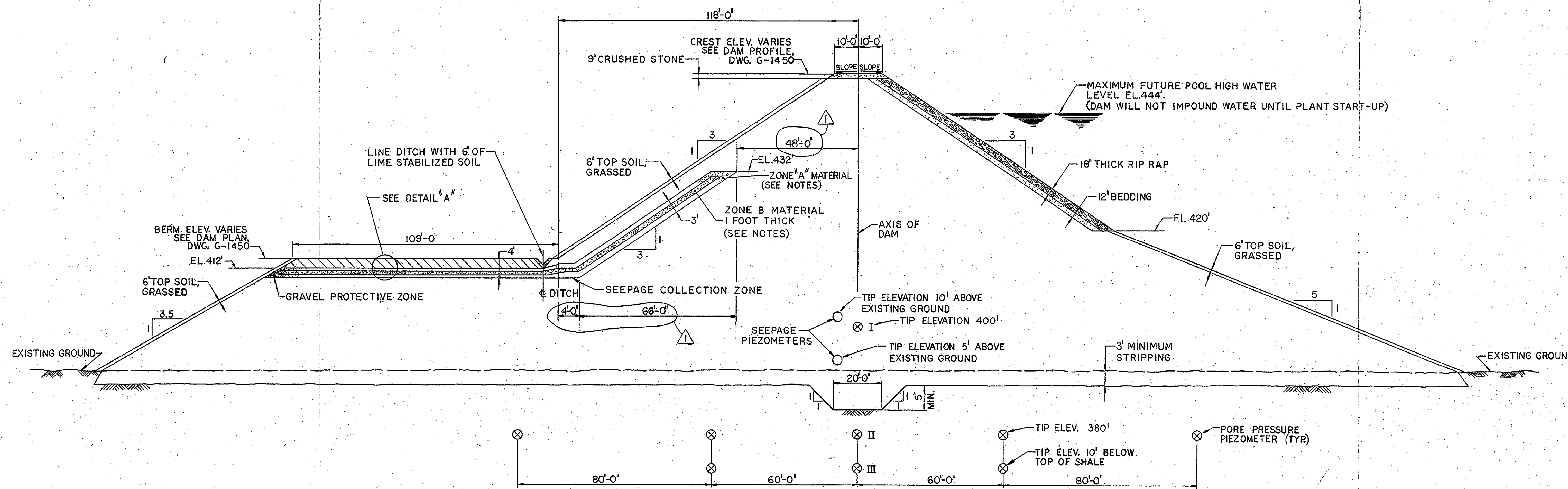
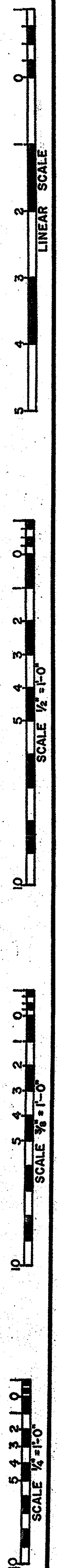
Locate three systems or nine piezometers in valley area with surface grade at or below El. 410.

Seepage Piezometers

Type	Tip Elevation
I	5' above natural grade
II	10' below natural grade

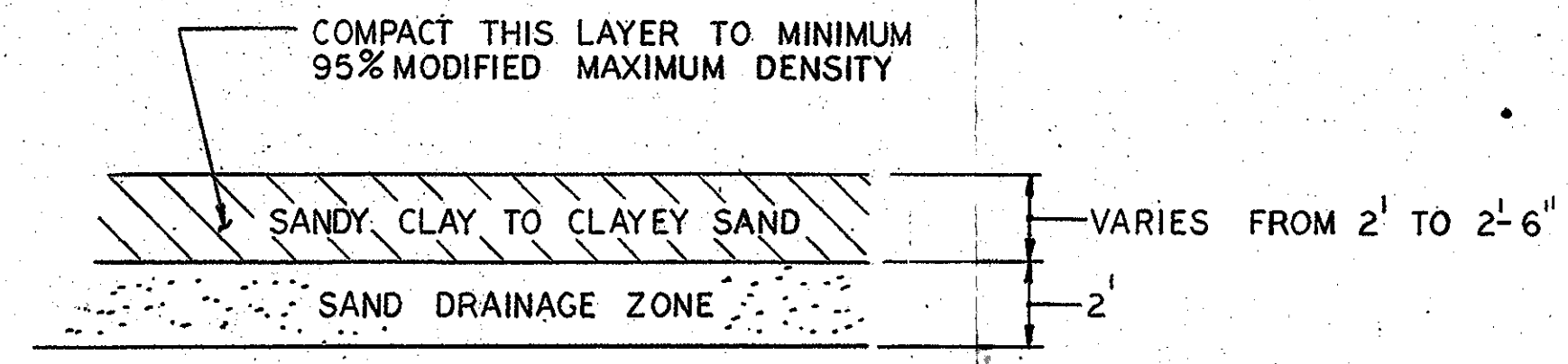
Locate three system of two piezometers in valley area with surface grade at or below El. 410.

TYPICAL EMBANKMENT SECTION



TYPICAL CROSS SECTION

SCALE
HORIZONTAL: 1"=20'-0"
VERTICAL: 1"=10'-0"

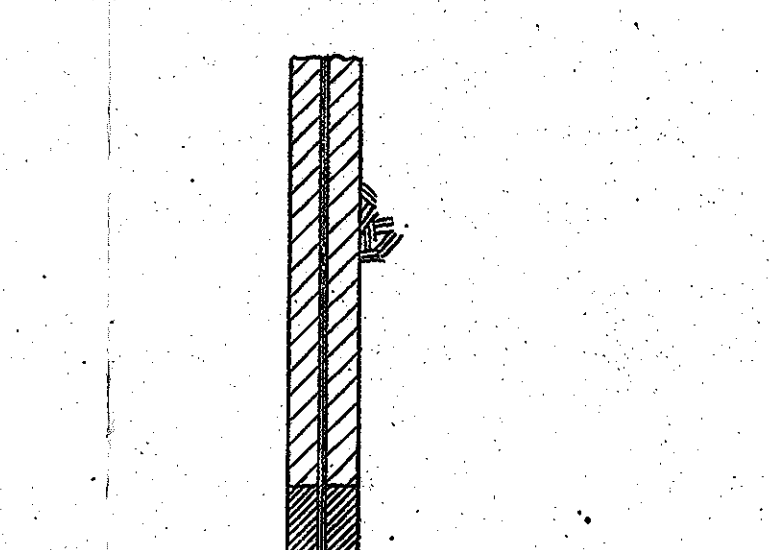
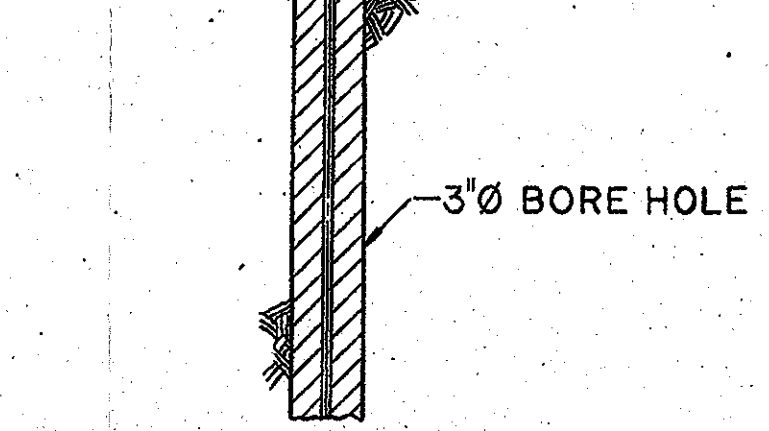


DETAIL A

USE ONE READOUT STATION FOR EACH LINE OF PIEZOMETERS (3 REQUIRED)

INSTALL HORIZONTAL TUBING RUN IN DITCH. PLACE SAND IN BOTTOM, USE BENTONITE CUTOFFS ALONG TRENCH AND BACKFILL WITH EMBANKMENT MATERIAL.

AT CHANGE IN DIRECTION OF TUBING RUN USE EXPANSION BOX OR LEAVE EXTRA LOOPS



TYPICAL PIEZOMETER INSTALLATION

SCALE: 1/2"=1'-0"

NOTES:

1. PIEZOMETERS SHALL BE HYDRAULICALLY FLUSHABLE, THREE TUBE PNEUMATIC MODEL P-1020 AS MANUFACTURED BY TERRA TECHNOLOGY OF SEATTLE, WASHINGTON OR ENGINEER APPROVED EQUAL.
2. PLACE PIEZOMETER IN POROUS BAG FILL WITH MOIST SAND AND PLACE ASSEMBLY IN BORE HOLE.
3. ALL TUBING RUNS SHALL HAVE 10% SLACK TO ALLOW FOR DAM SETTLEMENT AND TO PREVENT TUBES FROM STRETCHING.

NOTE:
FOR LOCATION OF PIEZOMETERS ALONG C OF DAM, SEE DWG. G-1050

1. EMBANKMENT MATERIAL SHALL CONSIST OF CLAY, SILTY CLAY, AND SANDY CLAY UNLESS OTHERWISE NOTED.
2. COMPACT EMBANKMENT TO MINIMUM OF 95% MAXIMUM STANDARD DENSITY AS DETERMINED BY ASTM DESIGNATION D 698 UNLESS OTHERWISE NOTED.
3. RIP RAP SHALL CONFORM TO MID-VALLEY, INC. SPECIFICATION C-127.
4. SEEDING SHALL CONFORM TO MID-VALLEY, INC. SPECIFICATION C-127.1.
5. CRUSHED STONE ON CREST SHALL CONFORM TO GRADING NO. 22 OF THE INDIANA STATE HIGHWAY STANDARD SPECIFICATION COMPACTED TO 95% MAXIMUM STANDARD DENSITY.
6. WHERE EXISTING GROUND CONTOUR HAS LESS SLOPE THAN THOSE SHOWN, LEAVE THE EXISTING SLOPE.
7. SAND OR CRUSHED STONE FOR USE IN THE SEEPAGE COLLECTION ZONE SHALL BE CLEAN, WELL GRADED, & NON PLASTIC.
8. ZONE "A" MATERIAL SHALL BE ASPHALT SAND CONFORMING TO ASTM DESIGNATION D 1073, GRADING #1:

SIEVE SIZE	% PASS (AMOUNT FINER BY WEIGHT)
3/8	100
NO. 4	95-100
8	70-100
16	40-80
30	20-65
60	7-40
100	1-20
200	0-10
9. ZONE "B" MATERIAL SHALL HAVE UNIFORM GRADING MEETING THE FOLLOWING GRAIN SIZE REQUIREMENTS:
 D₁₅ = 1.75 MM ± 1MM
 D₃₀ = 6 MM ± 2MM
 D₆₀ = 15 MM ± 2MM
 100% PASS #20 SIEVE
 MAX. 2% PASS #100 SIEVE
10. A SIEVE ANALYSIS OF THE AGGREGATES PROPOSED FOR USE IN THE SEEPAGE COLLECTION ZONE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THEIR USE. THE SIEVE ANALYSIS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION C-130 AND SHALL BE REPORTED ON THE BASIS OF TOTAL PERCENTAGE OF MATERIAL PASSING EACH SIEVE.
11. COMPACT THE HORIZONTAL SEEPAGE COLLECTION ZONE WITH 6 PASSES OF A 25 TON RUBBER TIRE ROLLER FOR EACH LIFT. COMPACT VERTICAL COLLECTION ZONE WITH HAND TAMPERS.
12. EXTREME CARE SHALL BE TAKEN TO PREVENT MIXING EMBANKMENT MATERIAL WITH THE DRAINAGE ZONE. THE COLLECTION ZONE SHALL BE COMPLETELY FREE OF FOREIGN MATERIALS.
13. SLOPE SEEPAGE COLLECTION ZONE TO DAYLIGHT AT THE TOE OF THE SLOPE IN AREAS WHERE THE RAILROAD BERM IS NOT REQUIRED OR WHERE THE DOWNSTREAM SURFACE GRADE IS ABOVE ELEVATION 414.0'
14. THE SEEPAGE COLLECTION ZONE IS NOT REQUIRED FOR DAM SECTIONS WHERE THE DOWNSTREAM SURFACE GRADE IS AT OR ABOVE ELEVATION 430.0'
15. STRIP UNSUITABLE MATERIAL AND COMPACT FOUNDATION BEFORE PLACING EMBANKMENT.
16. ELEVATIONS OF PIEZOMETERS ARE NOT SHOWN TO SCALE.
17. CLEARING AND GRUBBING HAS BEEN COMPLETED BY OTHERS.
18. PLACE CLAYEY MATERIAL IN CORE AREA AND UPSTREAM FACE AS DIRECTED BY THE GENERAL CONTRACTOR'S REPRESENTATIVE.
19. CRUSHED STONE ON CREST TO HAVE 14" PER FOOT CROWN.
20. LIME STABILIZED SOIL TO HAVE 4% LIME BY WEIGHT.

REFERENCE DRAWINGS

1. G-1450 DAM PLAN AND PROFILE
2. G-1451 DAM SPILLWAY SECTIONS & DETAILS
3. G-1453 DAM DETAILS

DRAWING NUMBER WAS G-1052-1

NO.	DATE	REVISION	BY	CHK.	APP.
1	12-20-64	REVISED DIMEN. PER AS BUILT	RRR	BY	MM
2	2-15-75	ISSUED TO INDIANA DEPT. OF NATURAL RESOURCES FOR APPROVAL	W.T.B.	MM	MM

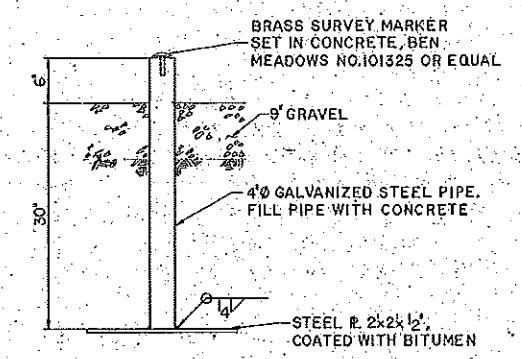
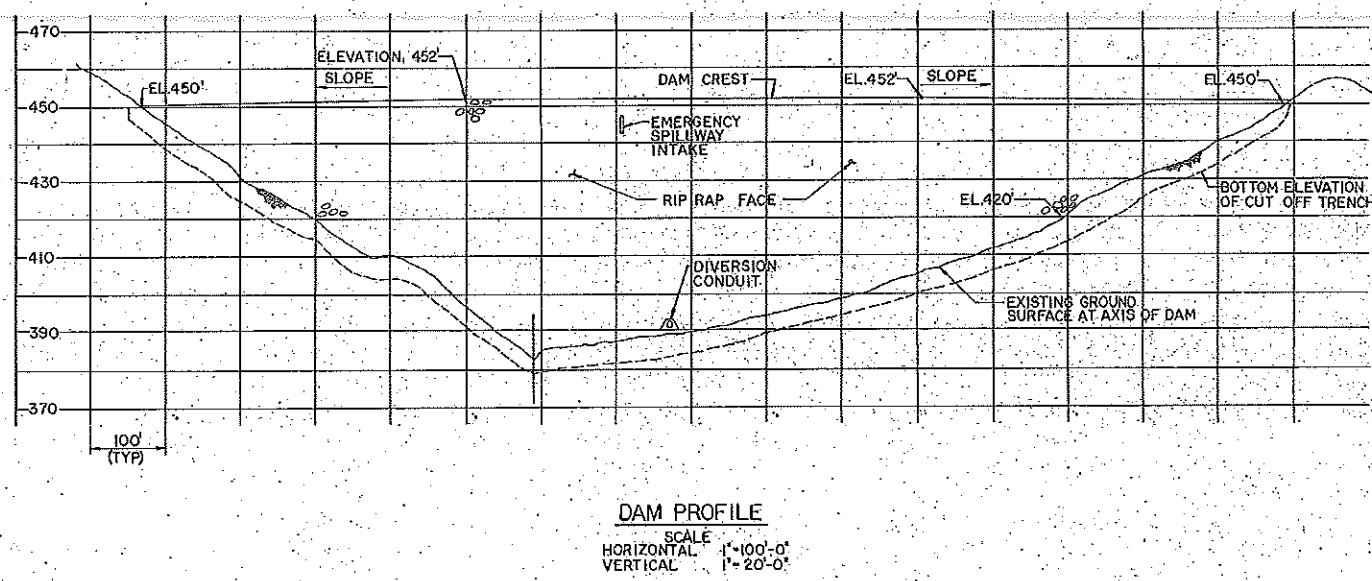
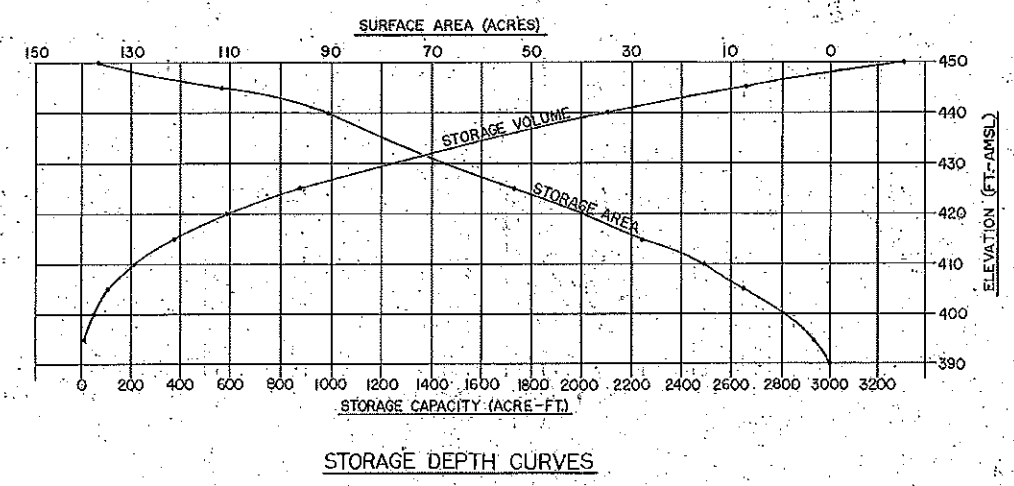
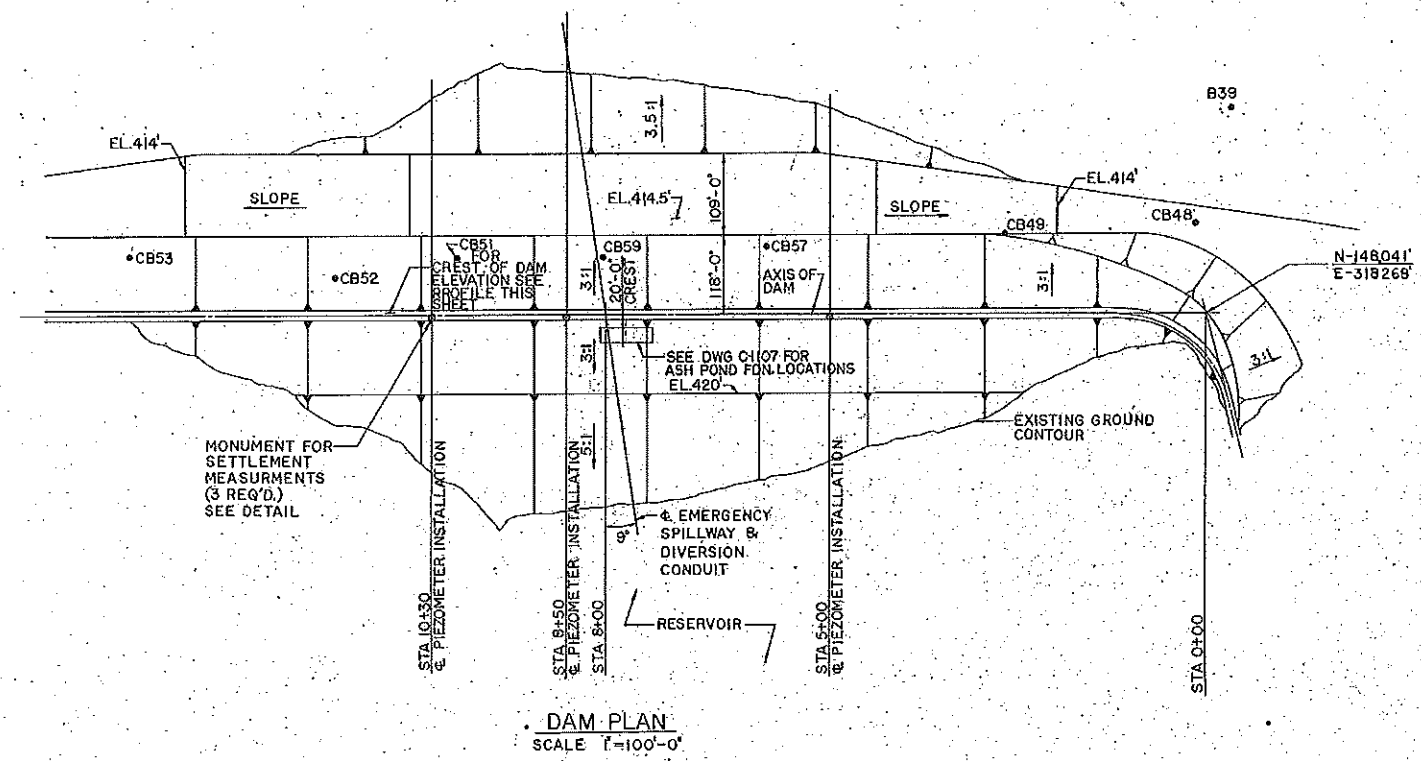
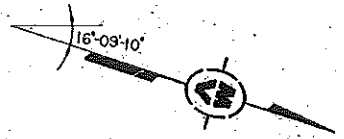


MID-VALLEY, INC.
ENGINEERS - CONSTRUCTORS
OAK BROOK, ILLINOIS

SOUTHERN INDIANA GAS & ELECTRIC CO.
EVANSVILLE, INDIANA
A.B. BROWN STATION
UNIT NO. 1&2

DRAWING TITLE
CIVIL
DAM
SECTIONS & DETAILS

CONTRACT NO.
CP-0013
DATE: JAN. 24, 1975
SCALE: AS SHOWN
DRAWING NO.
G-1452-1



LEGEND	
1	SETTLEMENT MONUMENT
2	BORING LOCATION

- NOTES**
- ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM AS ESTABLISHED BY THE UNITED STATES COAST AND GEODETIC SURVEY.
 - GRID COORDINATES ARE BASED ON THE INDIANA COORDINATE SYSTEM, WEST ZONE.
 - NORTH ARROW IS GRID NORTH.
 - CONTOUR LINES, ELEVATIONS, AND THE EXTENT OF SLOPES ARE APPROXIMATE.
 - PLACE ALIGNMENT STAKES AT TOE OF SLOPES FOR OBSERVATION OF POSSIBLE MOVEMENT.
 - FOR BORING LOCATIONS AND BORING LOG SEE DRAWING G-1002.

REFERENCE DRAWINGS	
1	G-1002 SOIL BORING LOCATION PLAN AND SOIL PROFILES
2	G-1451 DAM SPILLWAY SECTIONS & DETAILS
3	G-1452 DAM SECTIONS & DETAILS
4	G-1453 DAM DETAILS

DRAWN BARADAS, WALTER T.
 CHECKED [Signature]
 APPROVED [Signature]

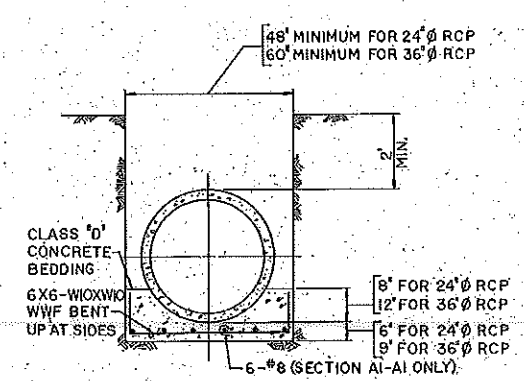
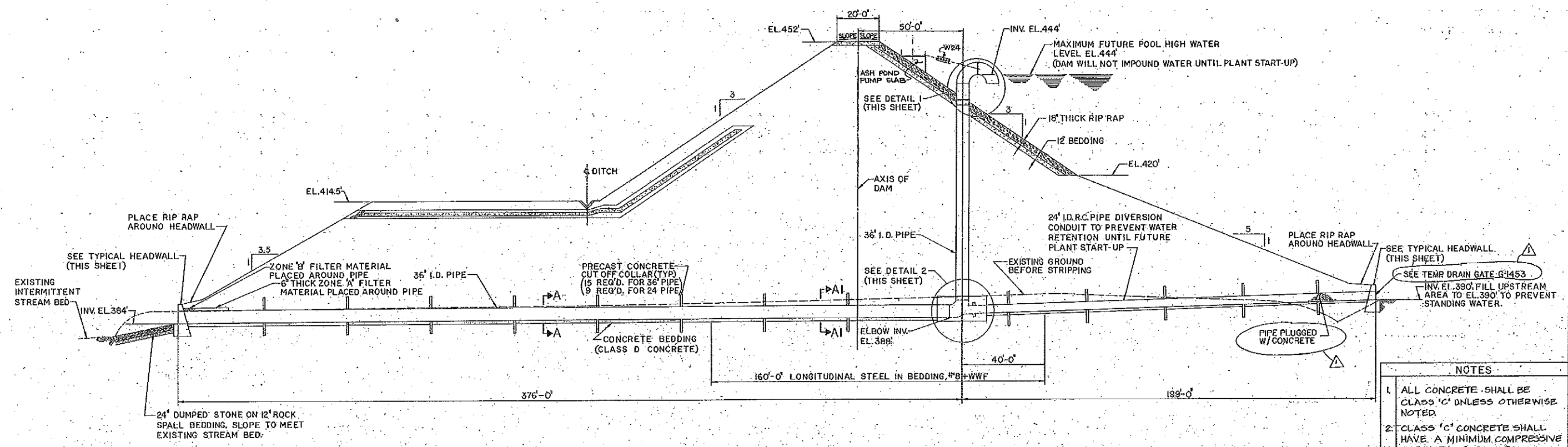
MID-VALLEY, INC.
 ENGINEERS - CONSTRUCTORS

SOUTHERN INDIANA GAS & ELECTRIC CO.
 EVANSVILLE, INDIANA

DRAWING TITLE
 CIVIL
 DAM

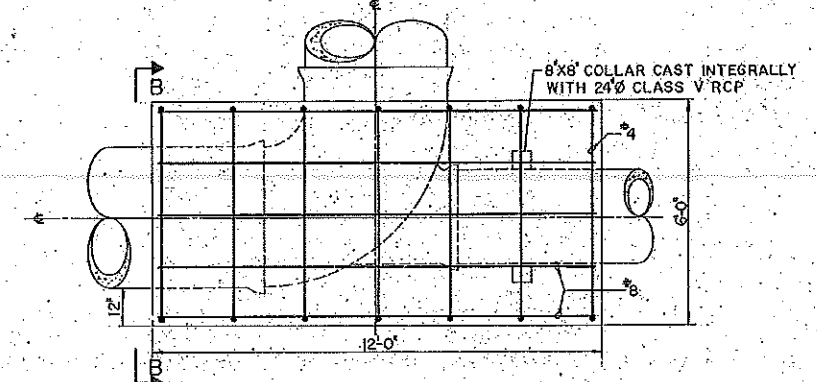
CONTRACT NO. CP-0013
 DATE: JAN 16, 1975
 SCALE: AS SHOWN

DRAWING NUMBER WAS G1050

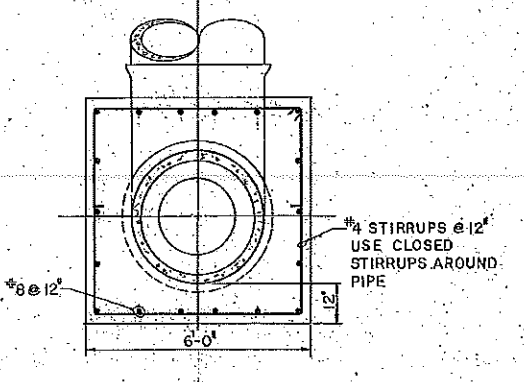


SECTION A-A
SECTION A1-A1
SCALE 1/2" = 1'-0"

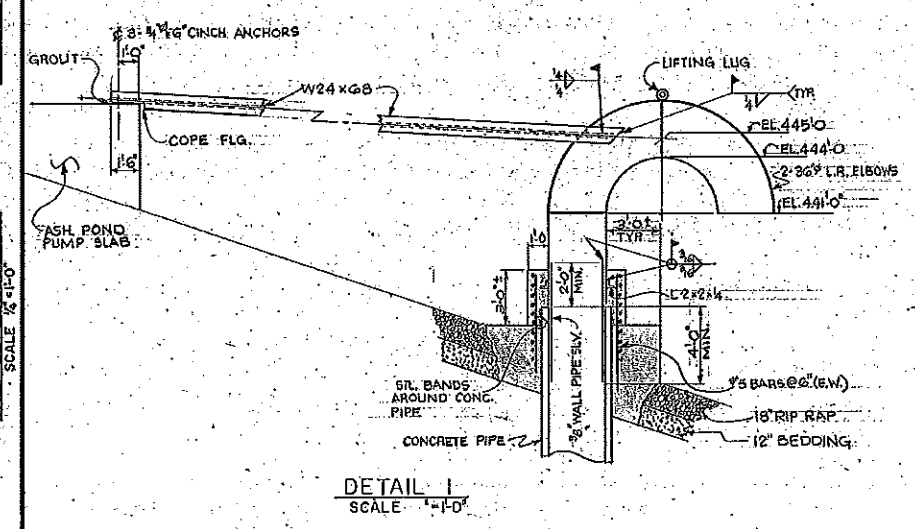
CROSS SECTION AT SPILLWAY
SCALE
HORIZONTAL 1" = 20'-0"
VERTICAL 1" = 10'-0"



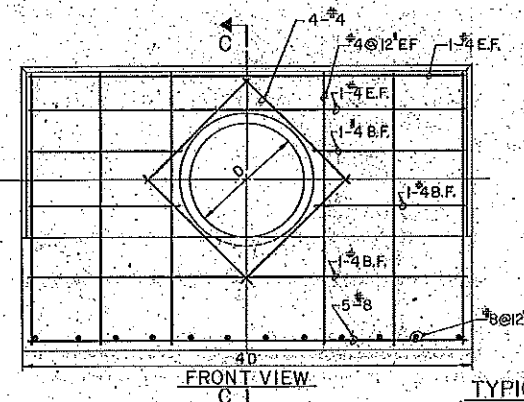
DETAIL 2
SCALE 1/2" = 1'-0"



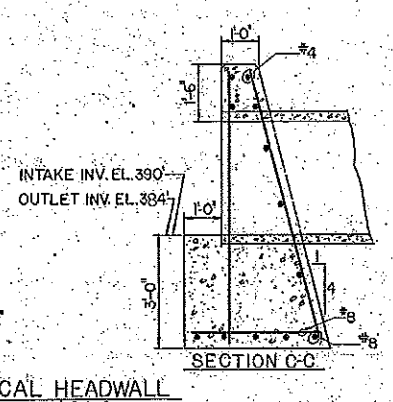
SECTION B-B
SCALE 1/2" = 1'-0"



DETAIL 1
SCALE 1" = 1'-0"



FRONT VIEW



TYPICAL HEADWALL
SCALE 1/2" = 1'-0"

NOTE:
24" I.D. RCP WILL
HAVE BELL END
IN HEADWALL.

NOTES

1. ALL CONCRETE SHALL BE CLASS 'C' UNLESS OTHERWISE NOTED.
2. CLASS 'C' CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
3. ALL REINFORCING BARS SHALL CONFORM TO ASTM DESIGNATION A615 GRADE 60.
4. ALL PIPE SHALL BE REINFORCED CONCRETE CONFORMING TO ASTM DESIGNATION C-76, CLASS V, WALL 'D'.
5. REINFORCED CONCRETE PIPE SHALL HAVE CONFINED O-RING RUBBER JOINTS CONFORMING TO ASTM DESIGNATION C-443.
6. ALL EXPOSED CONCRETE CORNERS SHALL HAVE 3" CHAMFER UNLESS OTHERWISE NOTED.
7. CUTOFF COLLARS ON 36" I.D. RCP TO BE 8"x8" AND ON 24" I.D. RCP TO BE 6"x6" MINIMUM SIZE.
8. CUTOFF COLLARS TO BE EVENLY SPACED ALONG PIPE.
9. COMPACT BACKFILL AROUND PIPE TO A MINIMUM OF 95% MAXIMUM STANDARD DENSITY.
10. CLASS 'D' CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
11. ALL REINFORCING STEEL TO HAVE 3" MINIMUM COVER.
12. ON OUTLET HEADWALL INSTALL 4 PIECES OF 1/2" I.D. GALVANIZED STEEL OR PLASTIC PIPE TO ALLOW SEEPAGE FROM FILTER BEHIND HEADWALL. SPACE PIPES EVENLY AROUND 36" I.D. OUTLET.
13. PLACE 1/2" FEMOLDED BITUMINOUS FILLERS OR GRAPHITE-COATED PAPER TO SEPARATE THE PIPE FROM THE CUTOFF COLLARS. THIS JOINT SHALL BE WATER TIGHT.
14. DUMPED STONE AT 36" PIPE OUTLET TO HAVE MINIMUM 18" TOP STONES.

REFERENCE DRAWINGS

1. G-1450 DAM PLAN AND PROFILE.
2. G-1452 DAM SECTIONS & DETAILS.
3. G-1453 DAM DETAILS.

2	01/85	REVISED	DET. 1		
1	01/85	REVISED	PER AS BUILT		
		CHECKED			
		APPROVED			



MID-VALLEY, INC.
ENGINEERS - CONSTRUCTORS

SOUTHERN INDIANA GAS & ELECTRIC CO.
EVANSVILLE, INDIANA
A R BROWN STATION

DRAWING TITLE
CIVIL
DAM

CONTRACT NO.	DATE
CP-0013	JAN. 22, 1975
SCALE:	AS SHOWN

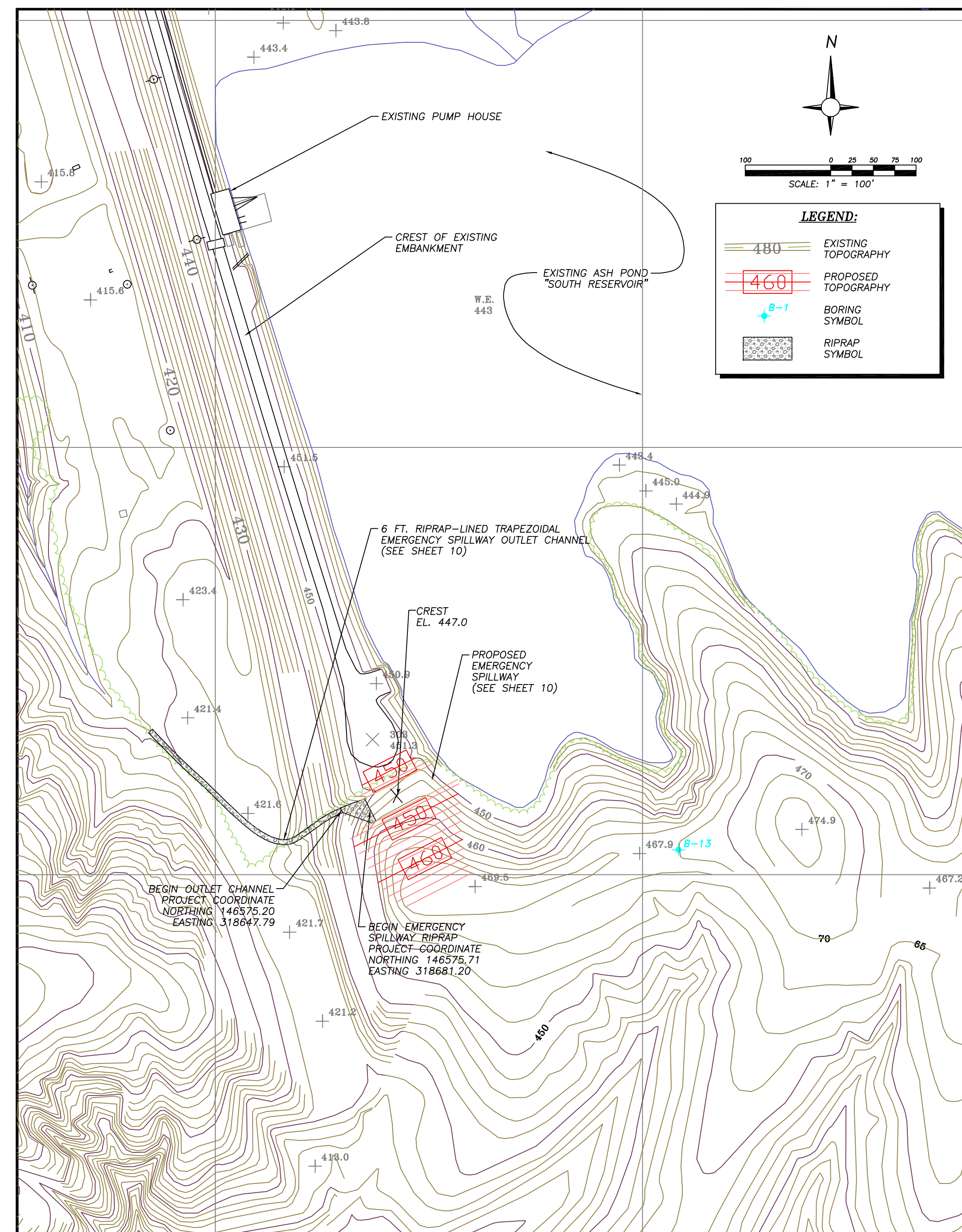
DRAWING NUMBER WAS G-1051

Revision:	1/02
Project Number:	86.33159.0030
Drawing File:	DETAIL2
Date:	1/2/03
Scale:	
Des. By:	CR
Chk. By:	TC
App'd By:	

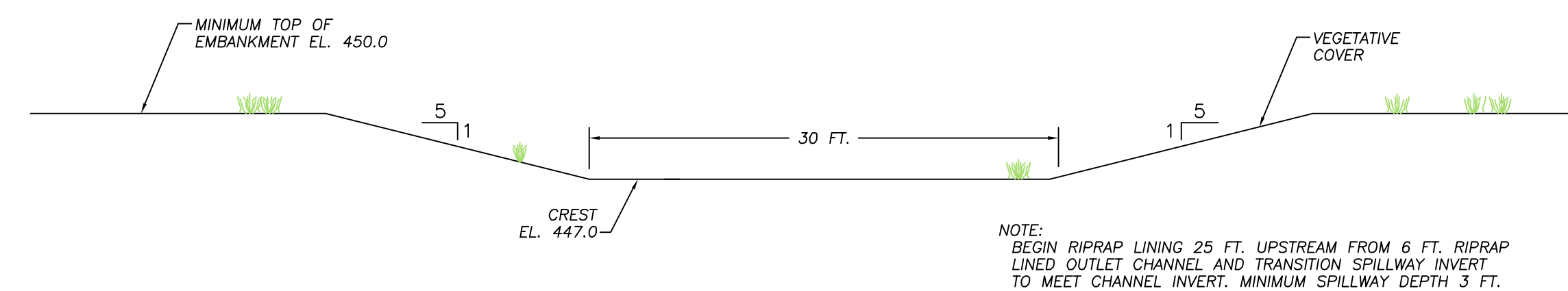
Company Name:
SOUTHERN INDIANA GAS AND ELECTRIC COMPANY



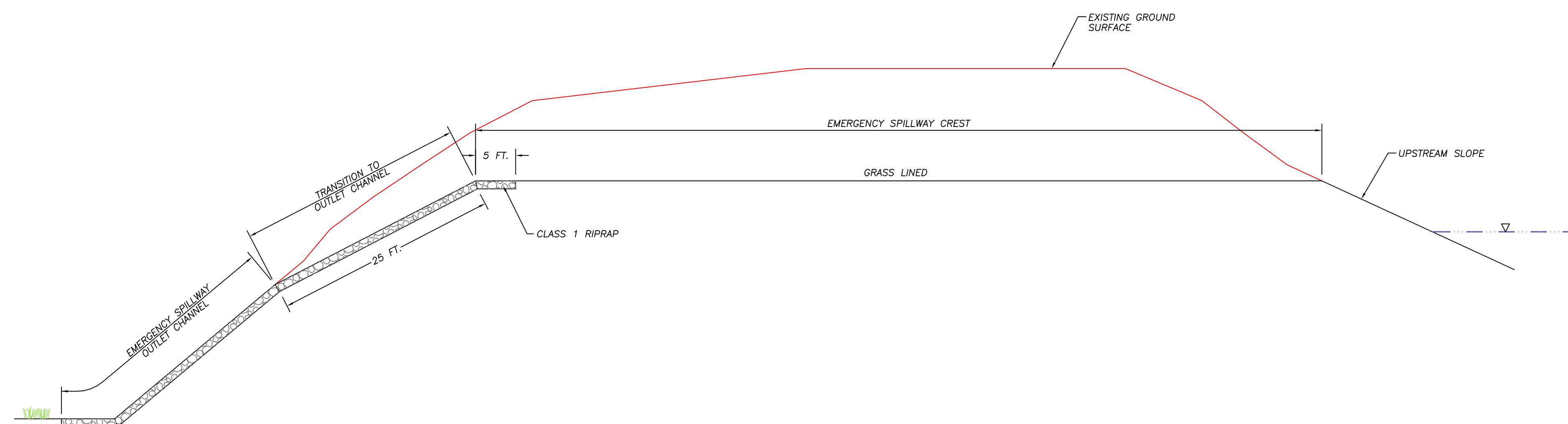
Drawing Title:
NEW EMERGENCY SPILLWAY OF EXISTING EMBANKMENT
A.B. BROWN GENERATING STATION
WEST FRANKLIN, INDIANA



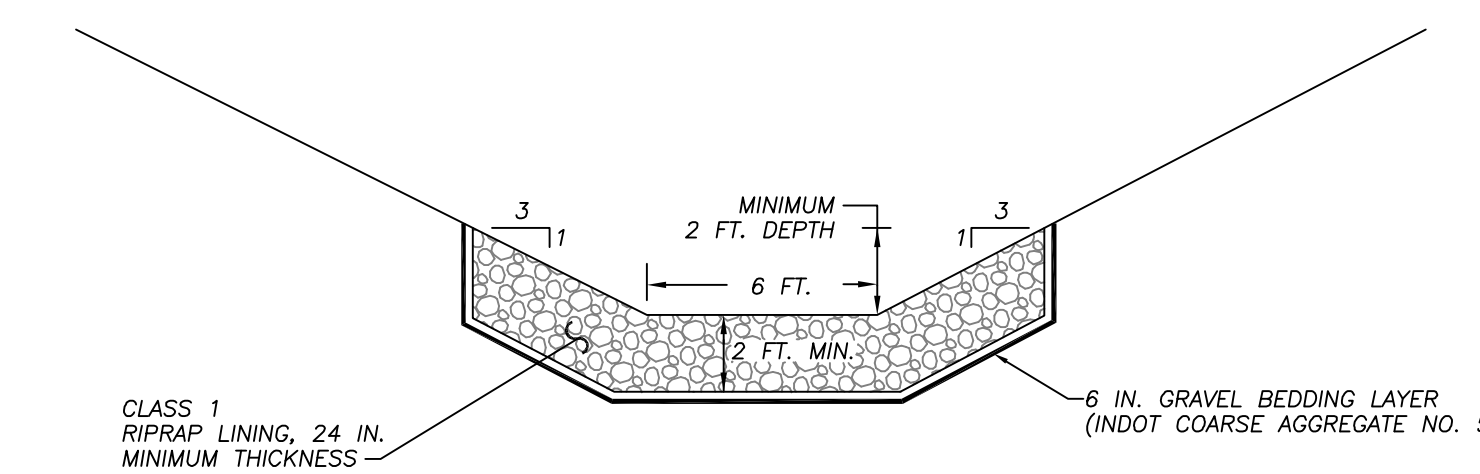
LOCATION OF NEW EMERGENCY SPILLWAY FOR EXISTING EMBANKMENT



SOUTH IMPOUNDMENT EMERGENCY SPILLWAY (NOT TO SCALE)



TYPICAL EMERGENCY SPILLWAY PROFILE (NOT TO SCALE)

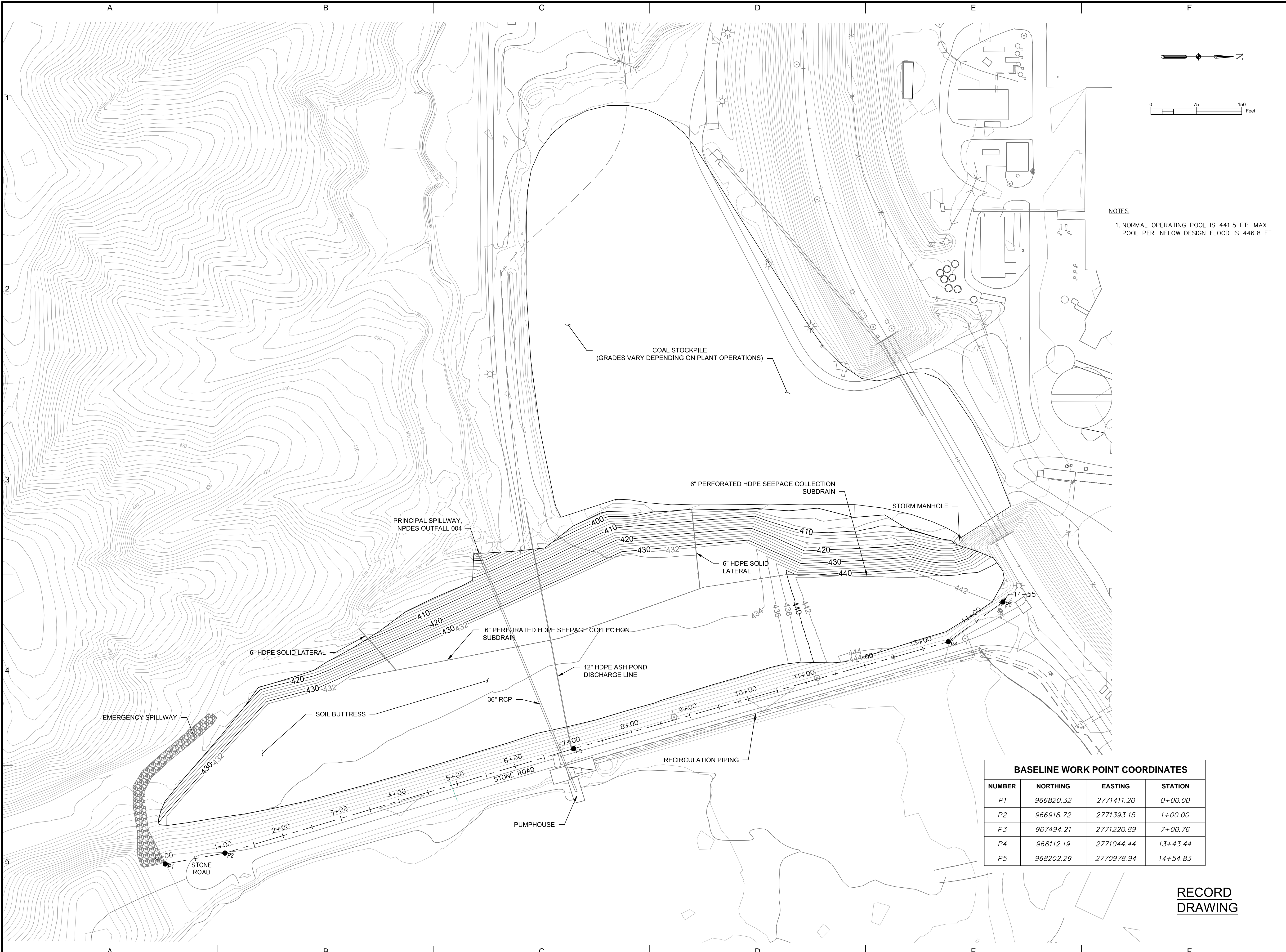


EMERGENCY SPILLWAY OUTLET CHANNEL FOR NORTH AND SOUTH IMPOUNDMENTS AND DOWNSTREAM OF PRINCIPAL SPILLWAY OUTLET (NOT TO SCALE)

NOTES:
TRANSITION 30 FT. CREST WIDTH THROUGH EMBANKMENTS INTO 6 FT. WIDE RIPRAP-LINED TRAPEZOIDAL DITCH ALONG DOWNSTREAM EMBANKMENT SLOPE, AS NOTED ON TYPICAL EMERGENCY PROFILE.
FOR SOUTH IMPOUNDMENT, EXTEND RIPRAP-LINED DITCH SECTION TO TRANSITION INTO EXISTING VEGETATED DITCH AS SHOWN ON THE DESIGN DRAWINGS.

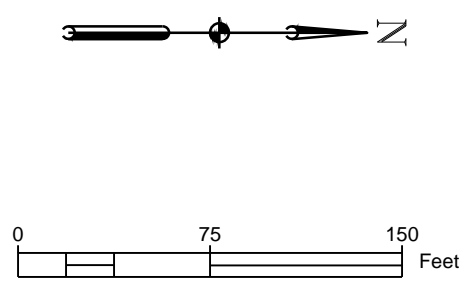
IVC_AILEEN_10/11/2016_9:53 AM

AECOM DRAWING PATH: K:\Projects\Vectren Corporation\60442676_ABBrown\DWG\C\GEOTECH\Sheets\As-Built\Buttress Plan.dwg



NOTES

1. NORMAL OPERATING POOL IS 441.5 FT. MAX POOL PER INFLOW DESIGN FLOOD IS 446.8 FT.



AECOM

1300 E. 9TH STREET
SUITE 500
CLEVELAND, OH
216-622-2300 (PHONE)

VECTREN
Live Smart

P.O. BOX 209
EVANSVILLE, IN 47702
1-800-227-1376

A.B. BROWN
GENERATING STATION
POSEY COUNTY, IN

LOWER DAM
STABILIZING
BUTTRESS



ISSUED FOR BIDDING - 3/28/16 VKG
DATE BY

ISSUED FOR CONSTRUCTION 5/12/16 VKG
DATE BY

REVISIONS		
NO.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	5/12/16
1	REVISION 1	7/11/16
2	AS-BUILT DRAWINGS	10/11/16

AECOM PROJECT NO: 60442676
DRAWN BY: ACI
DESIGNED BY: ACI
CHECKED BY: VKG
DATE CREATED: 10/05/2016
PLOT DATE: 10/05/2016
SCALE: AS SHOWN
ACAD VER: AUTOCAD CIVIL 3D 2014

SHEET TITLE

BUTTRESS PLAN

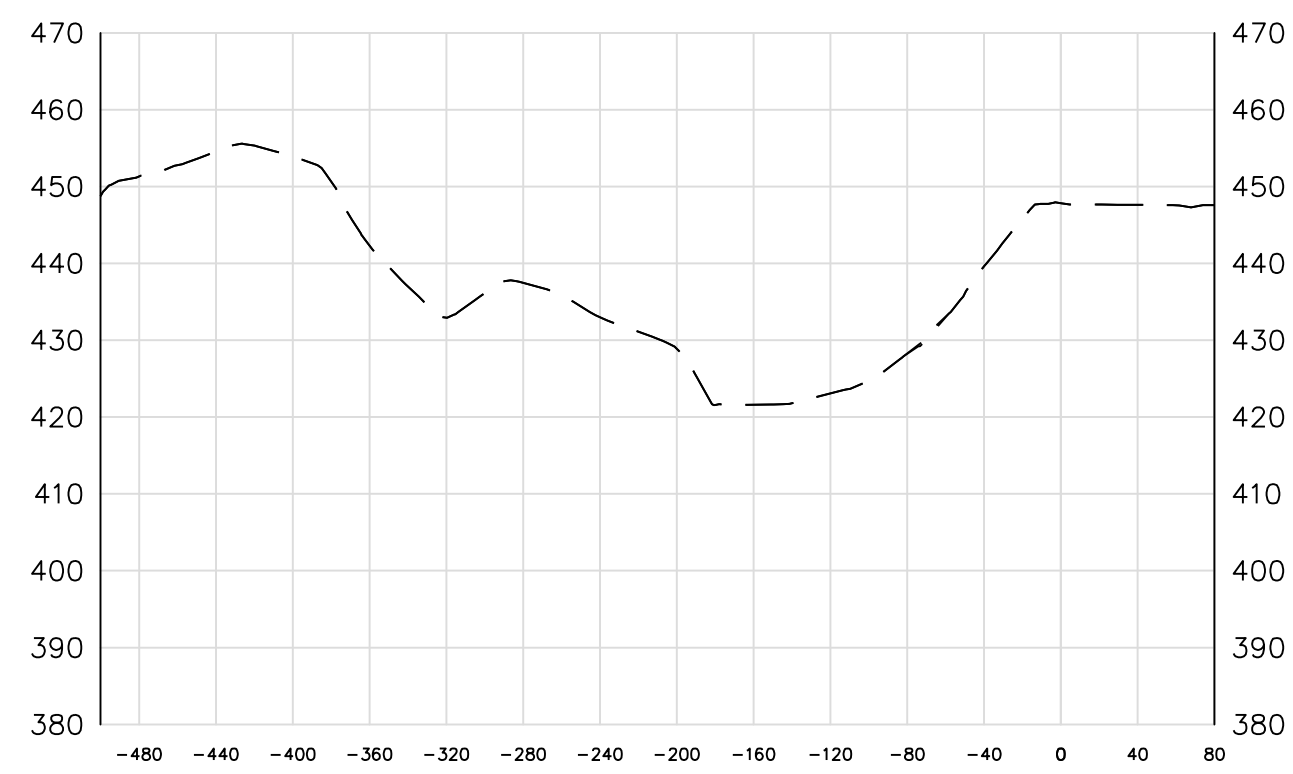
C-200
SHEET 07 OF 25

BASELINE WORK POINT COORDINATES			
NUMBER	NORTHING	EASTING	STATION
P1	966820.32	2771411.20	0+00.00
P2	966918.72	2771393.15	1+00.00
P3	967494.21	2771220.89	7+00.76
P4	968112.19	2771044.44	13+43.44
P5	968202.29	2770978.94	14+54.83

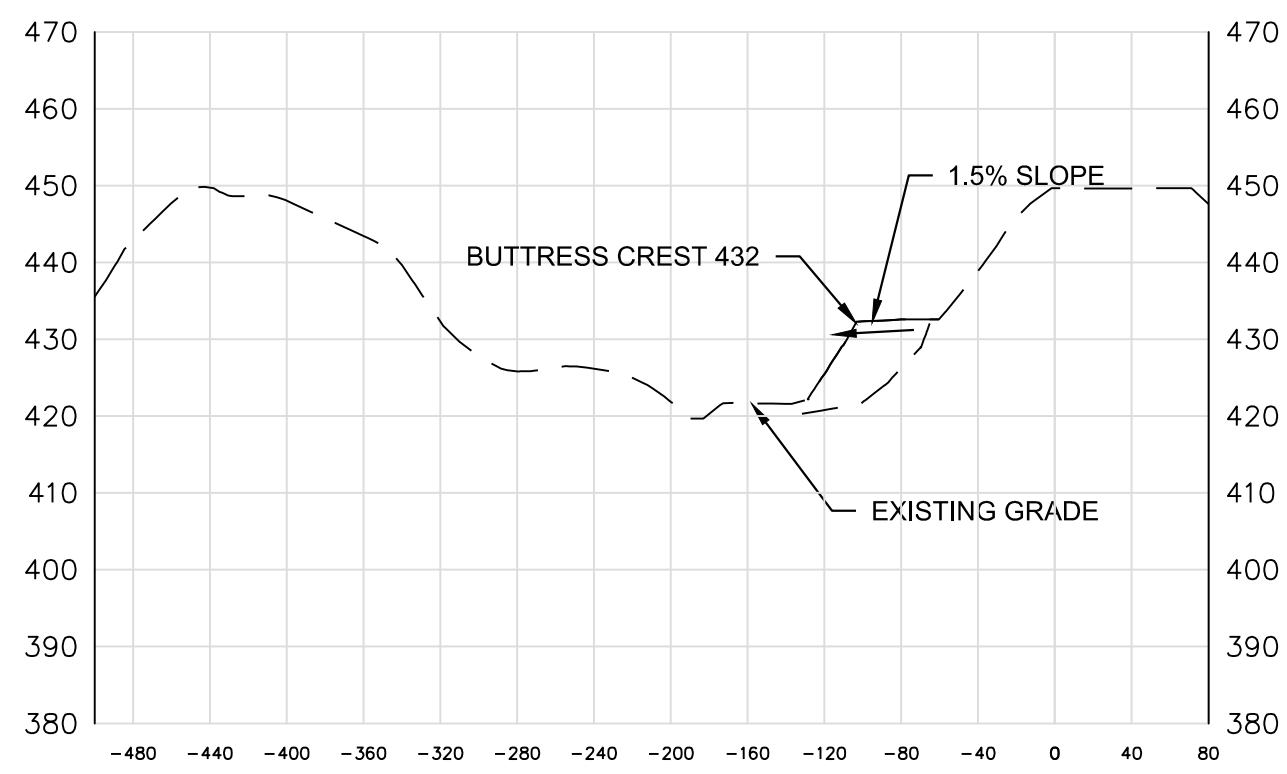
RECORD
DRAWING

IVC_AILEEN_10/11/2016_9:55 AM

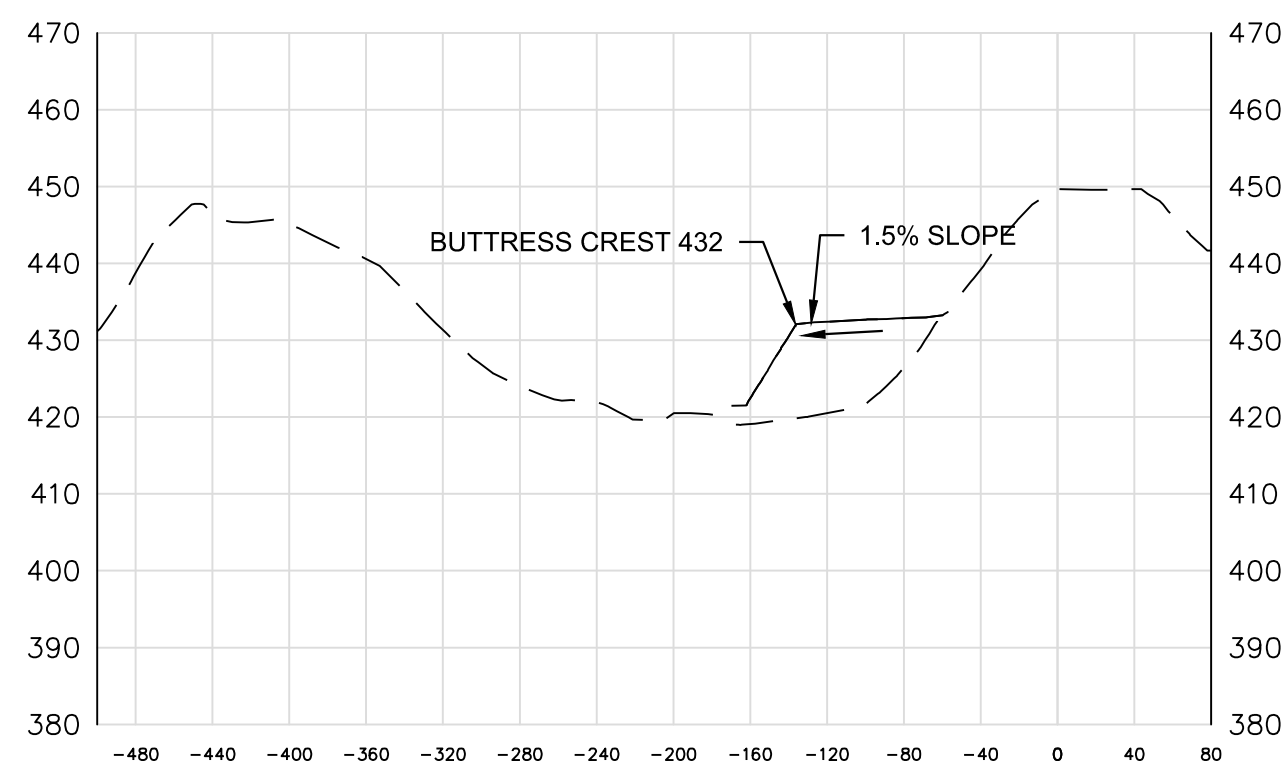
K:\Projects\AECOM\Projects\AECOM Corporation\60442676_ABBrown\DWG\C\GEOE\Tech\Sheets\As-Built\08 - 09 - Cross Sections\Buttress.dwg



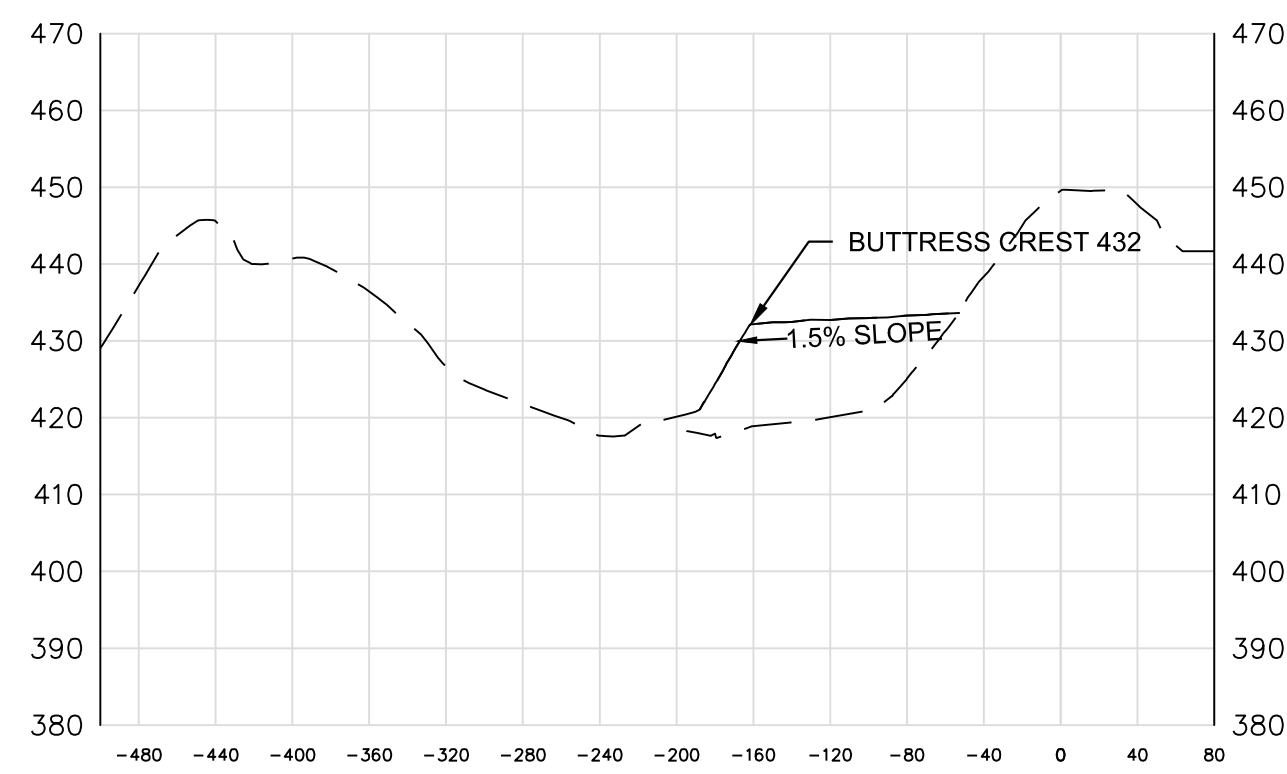
STA. 0+00



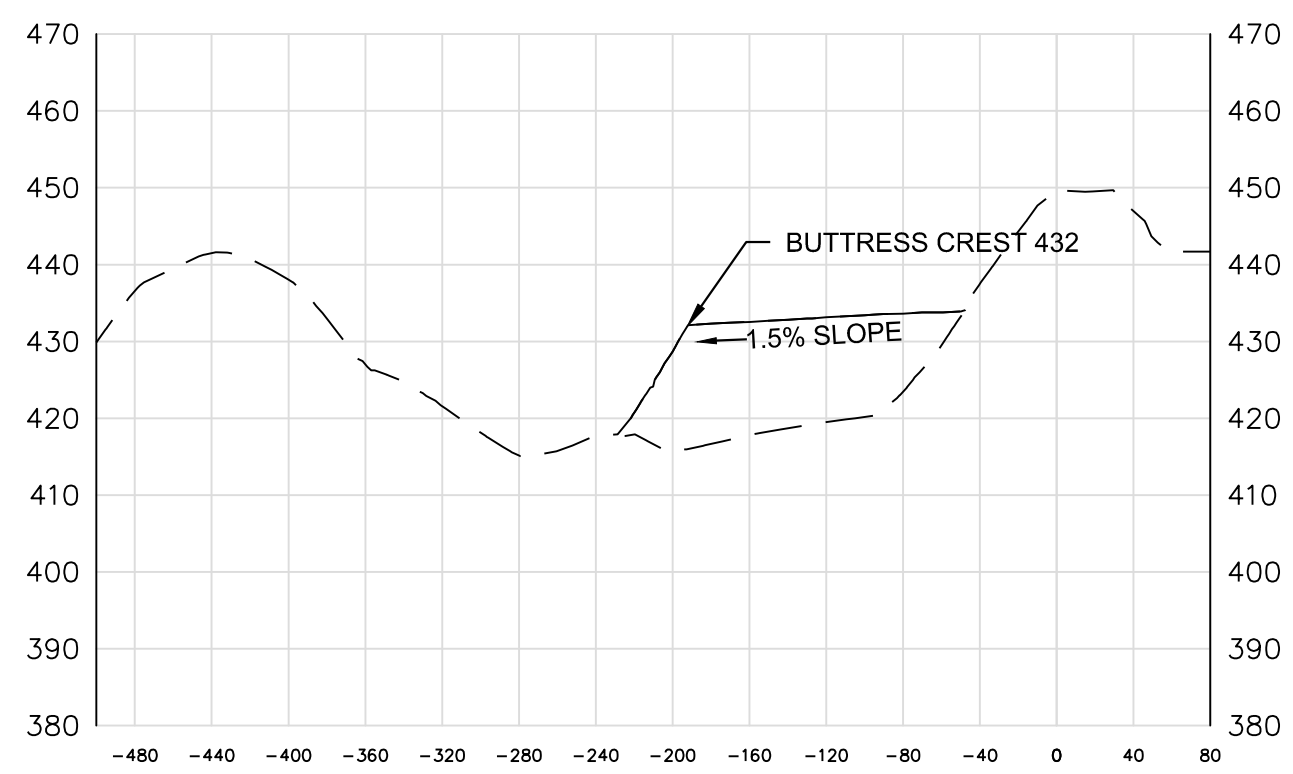
STA. 0+50



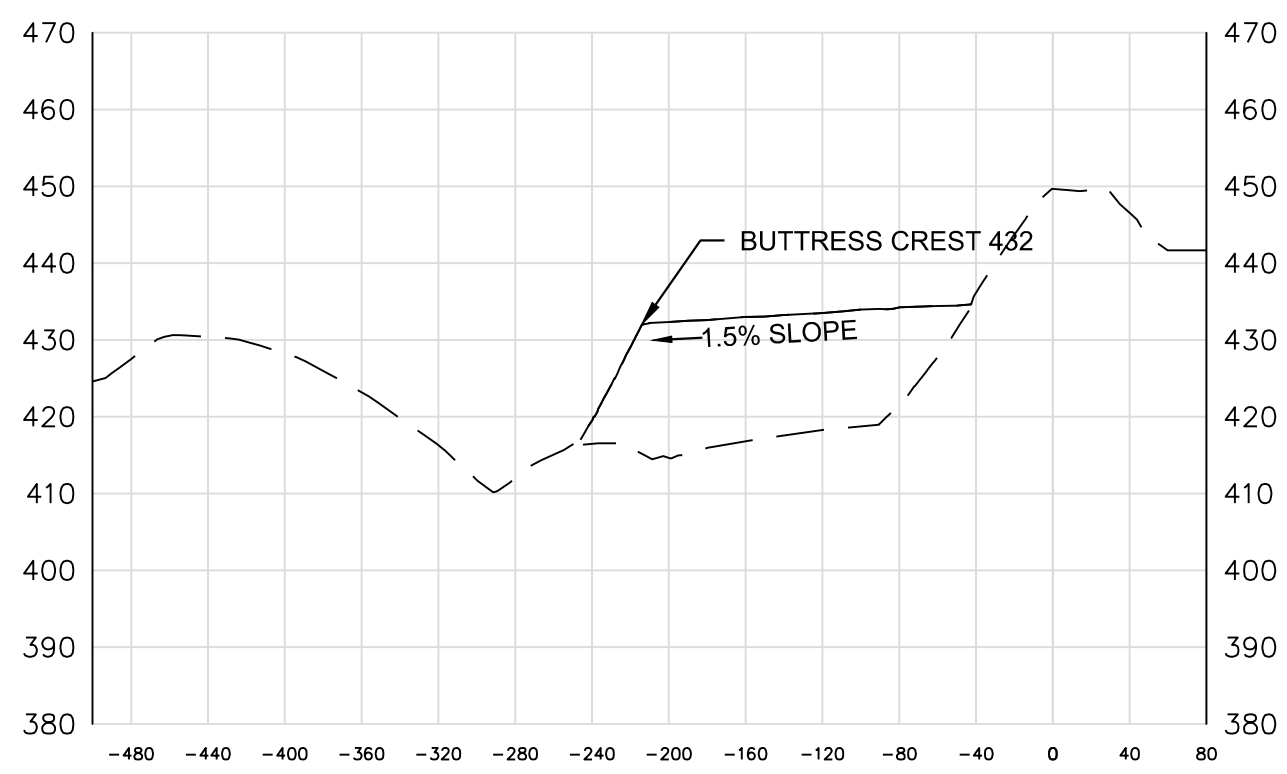
STA. 1+00



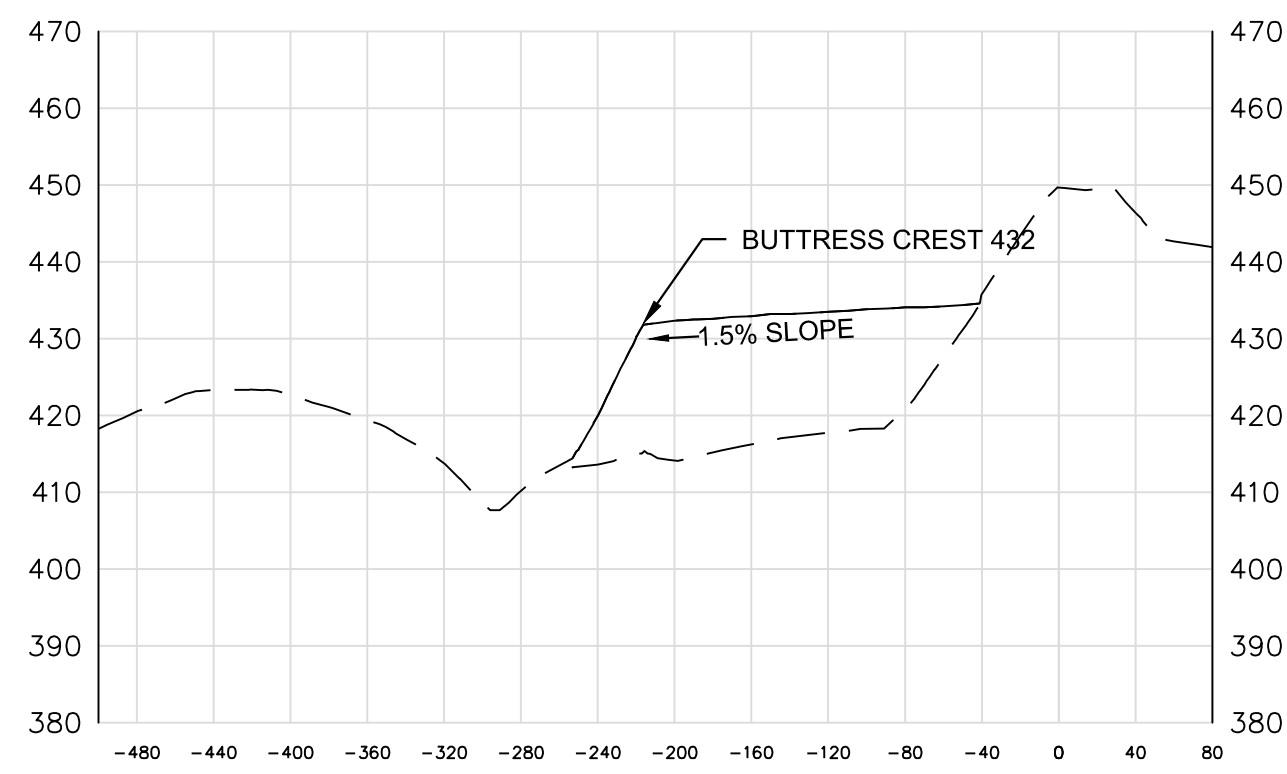
STA. 1+50



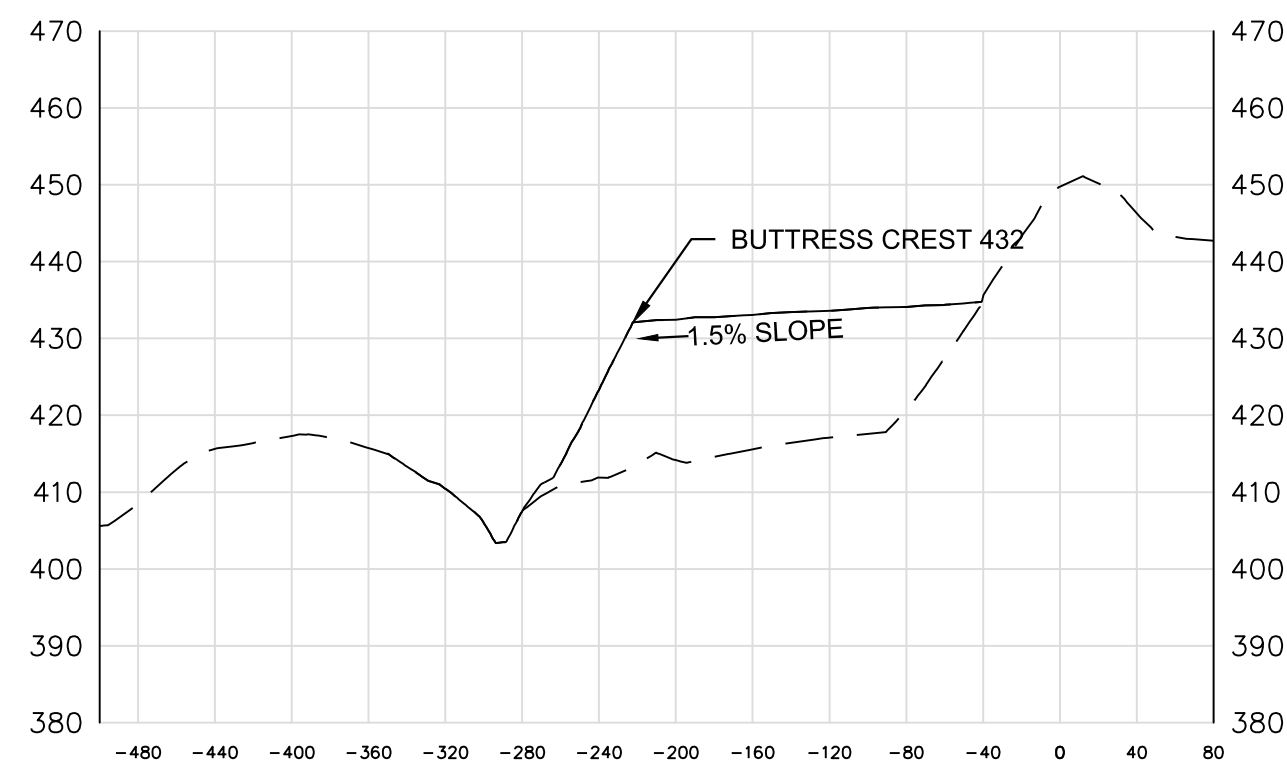
STA. 2+00



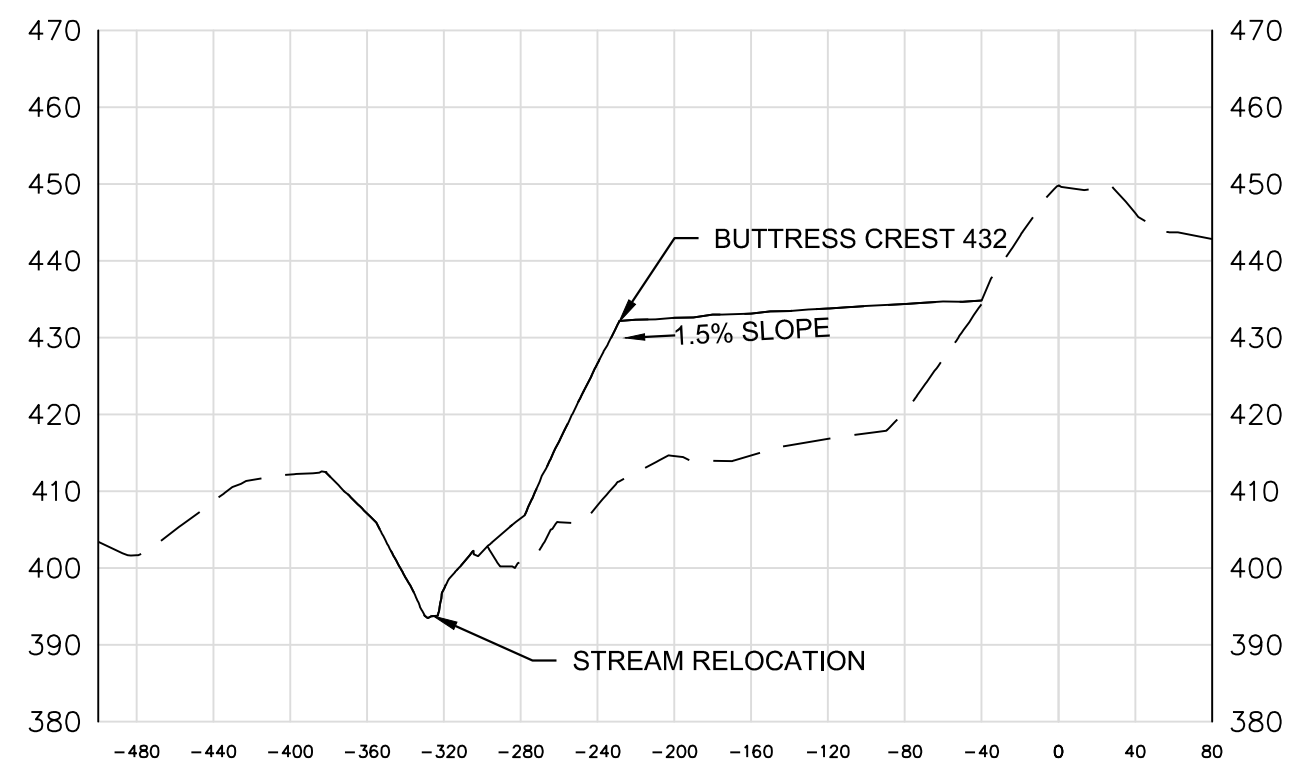
STA. 3+00



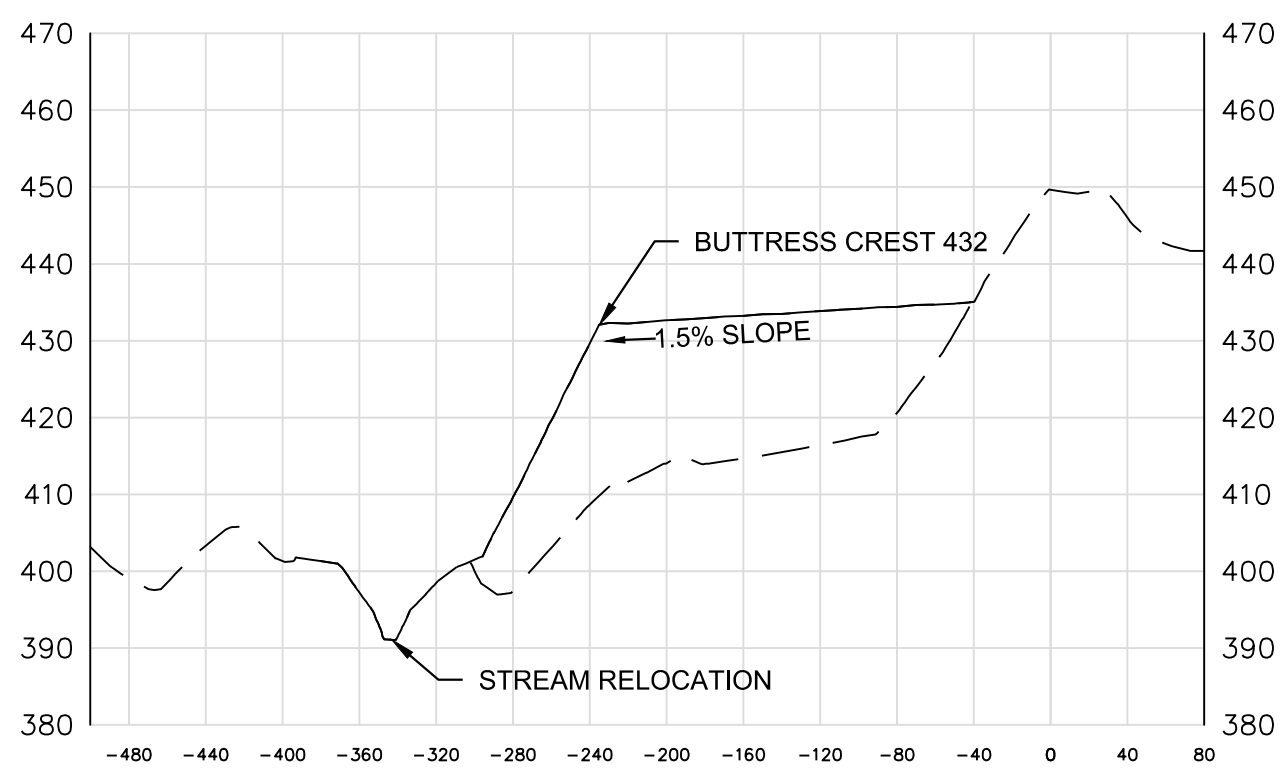
STA. 3+50



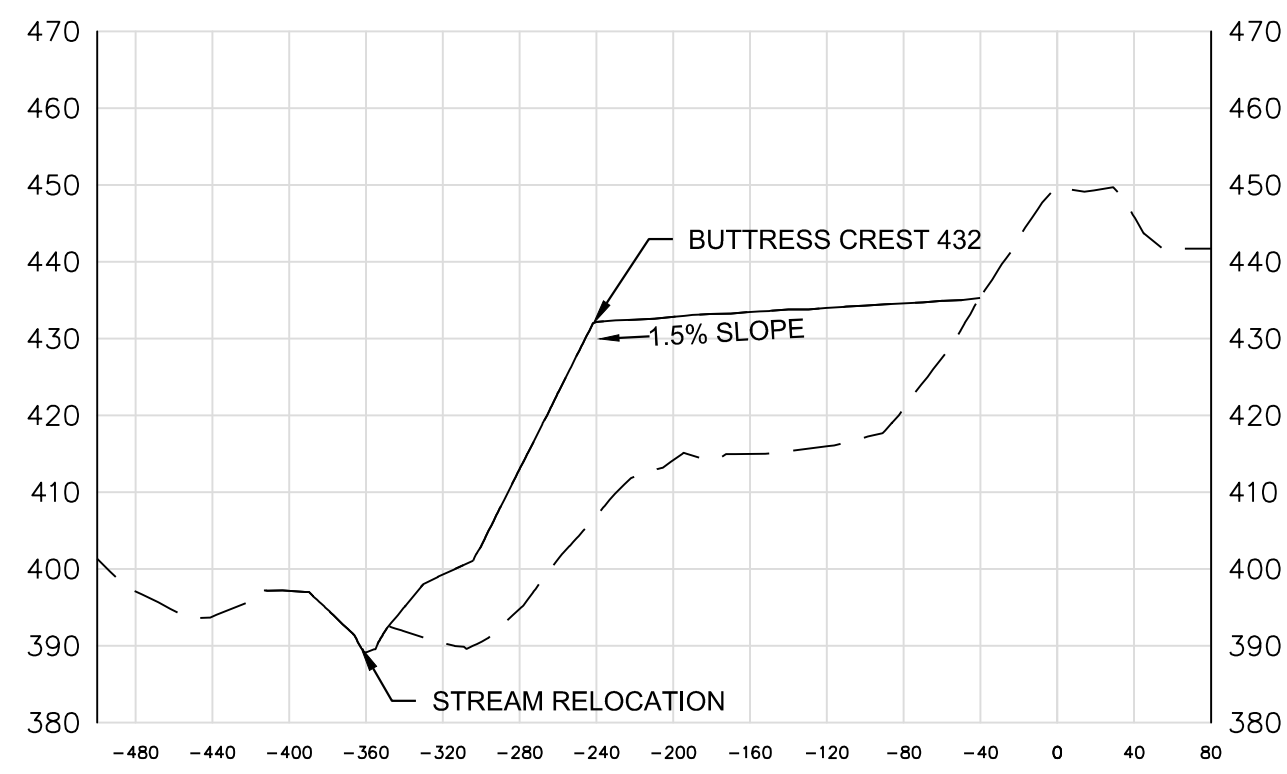
STA. 4+00



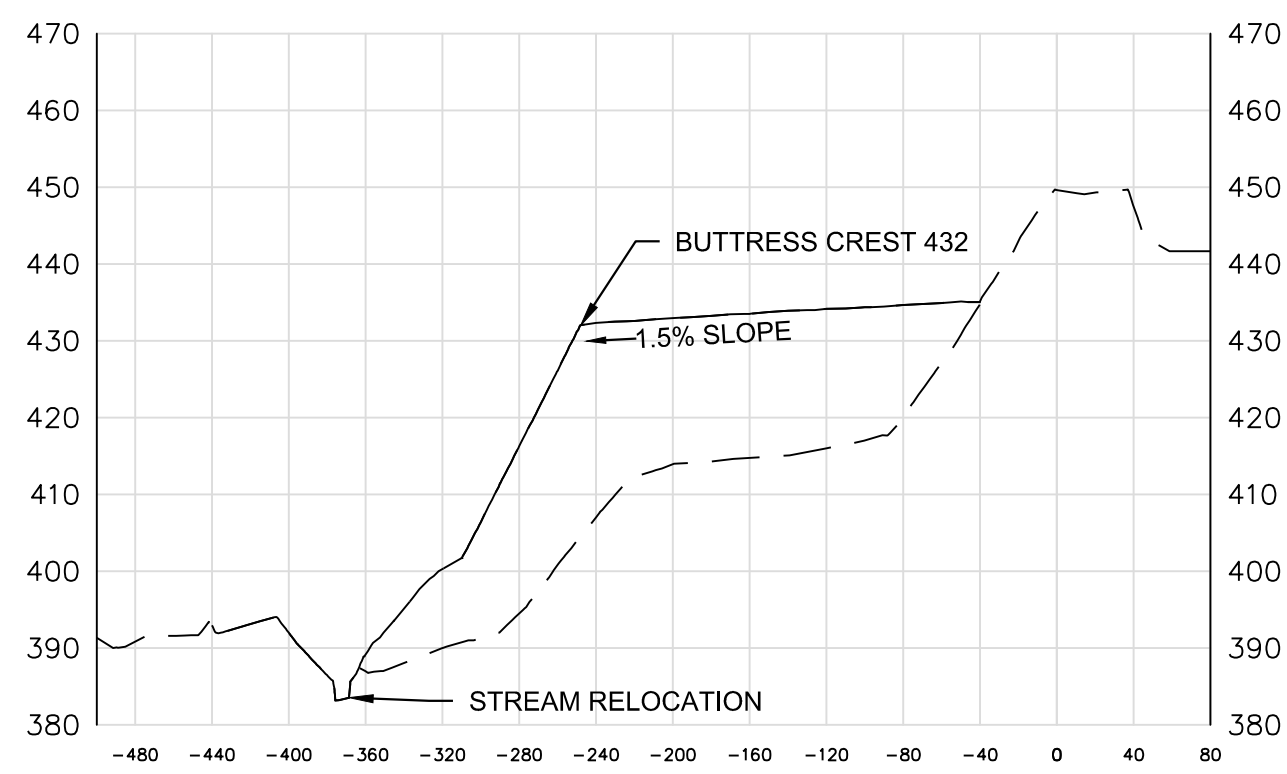
STA. 4+50



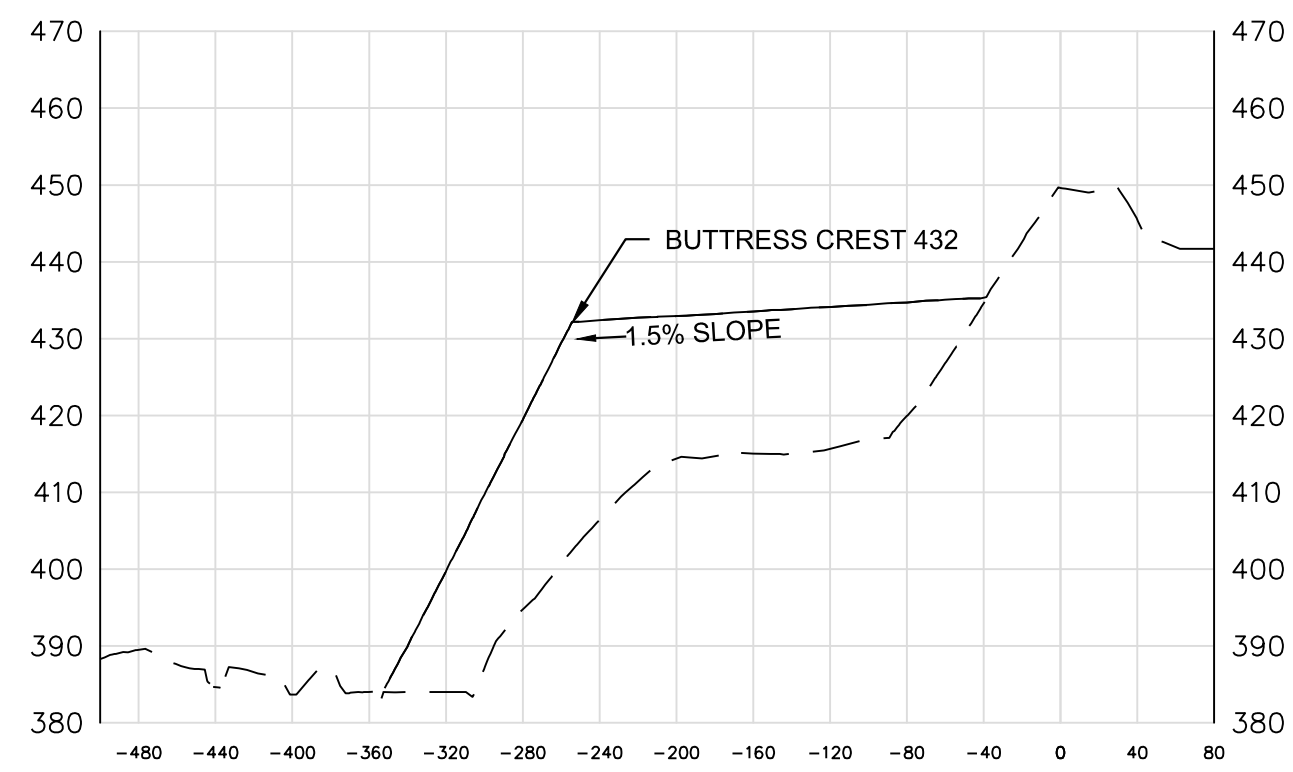
STA. 5+00



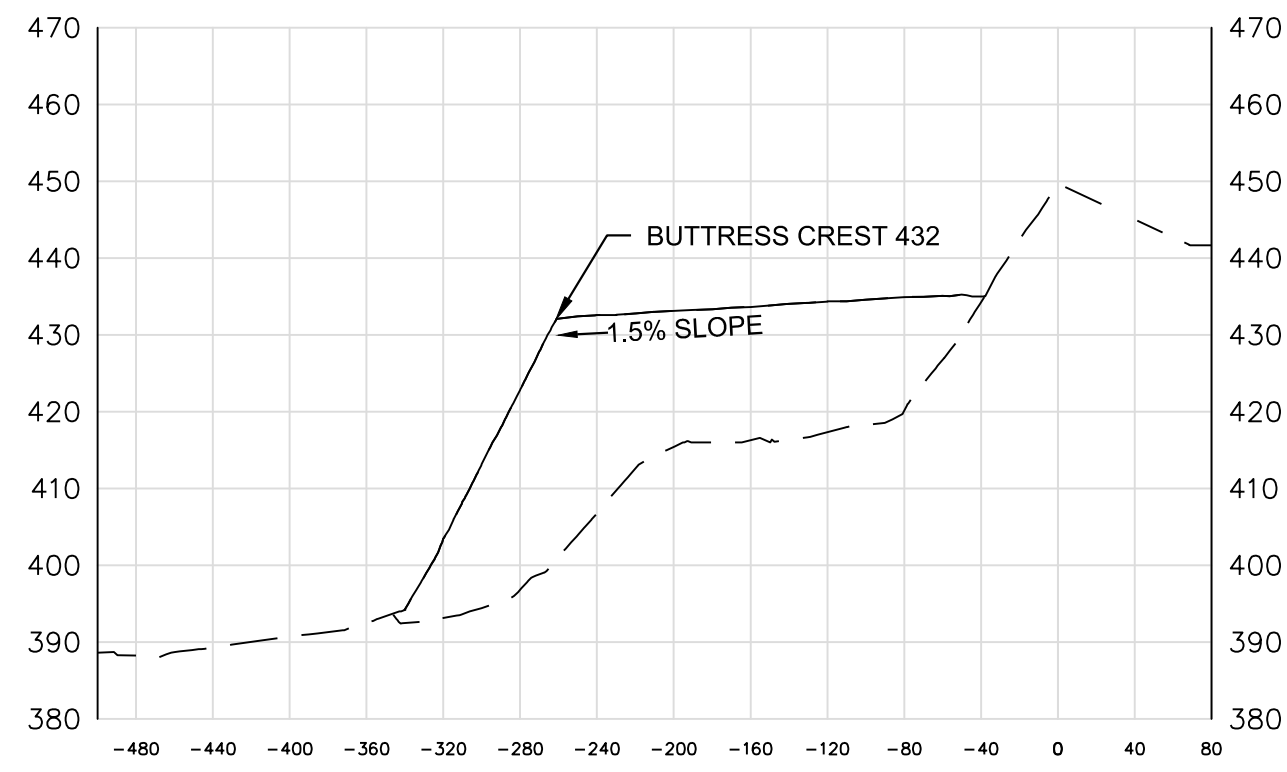
STA. 5+50



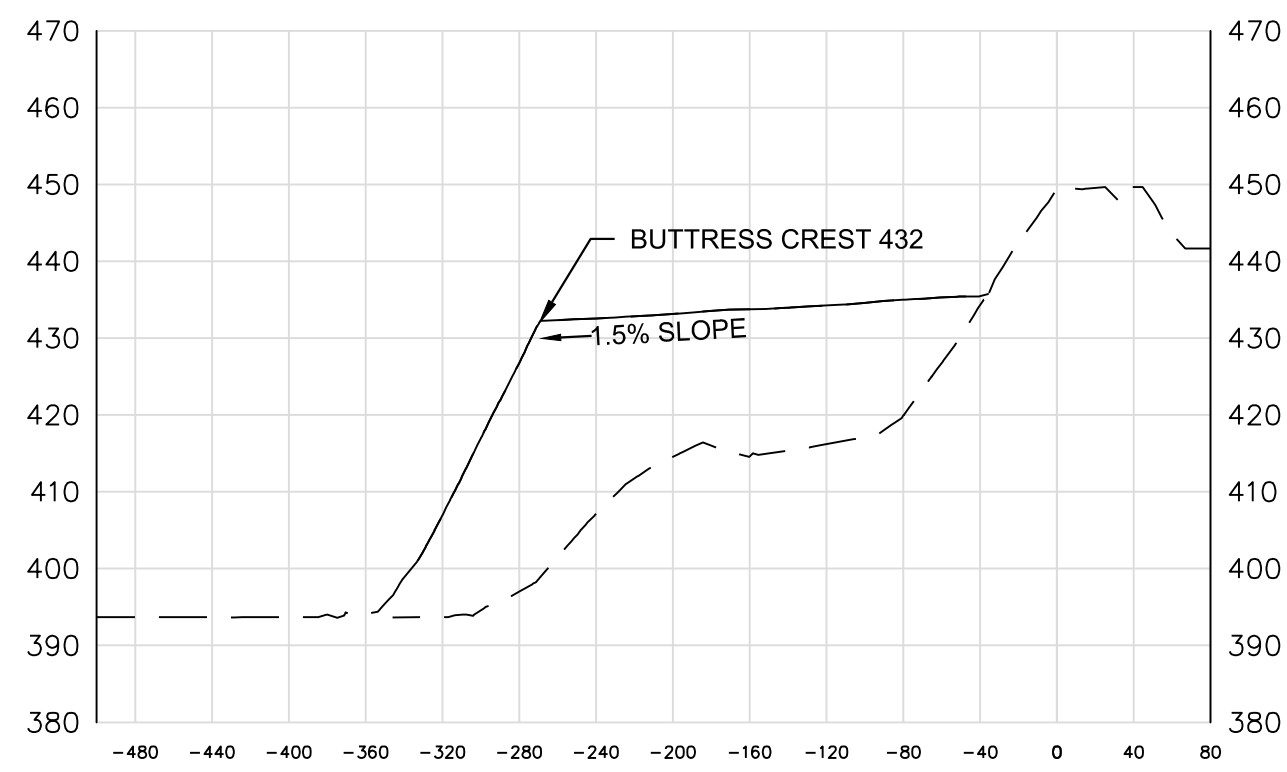
STA. 6+00



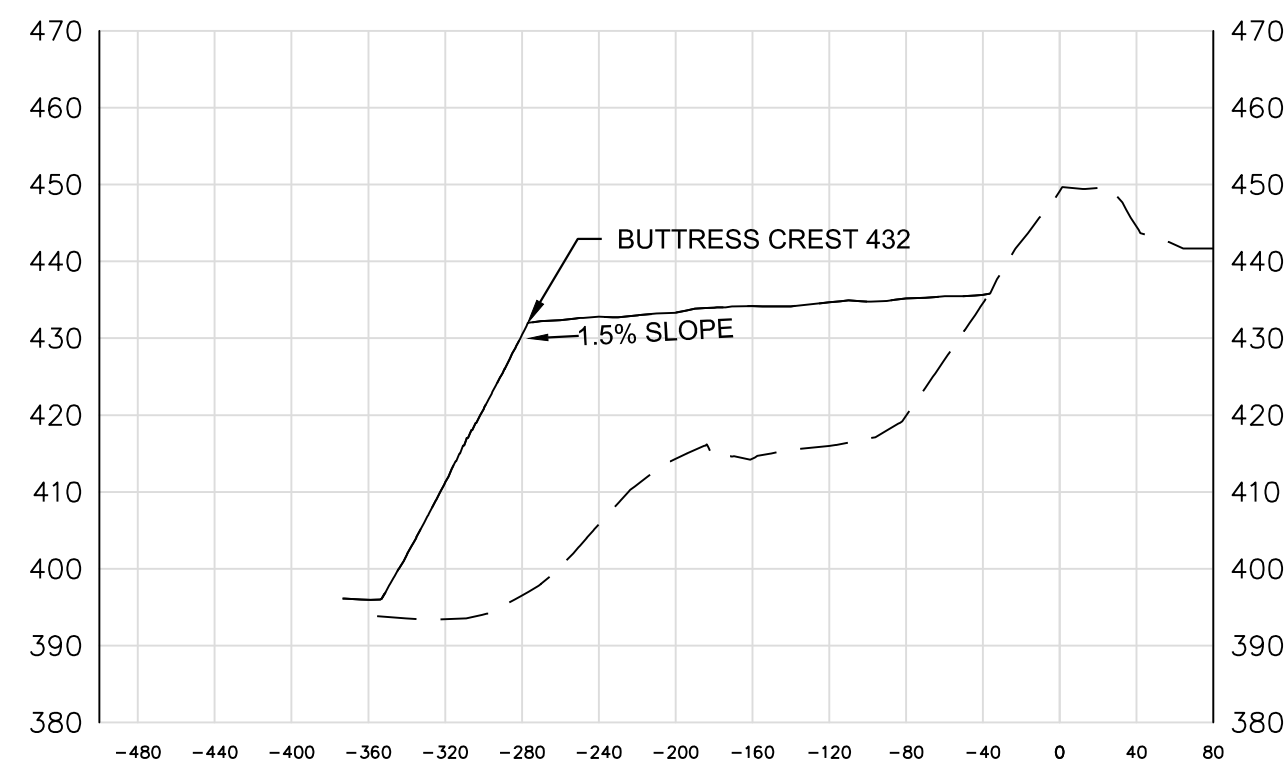
STA. 6+50



STA. 7+00



STA. 7+50



STA. 8+00

RECORD
DRAWING



1300 E. 9TH STREET
SUITE 500
CLEVELAND, OH
216-622-2300 (PHONE)



P.O. BOX 209
EVANSVILLE, IN 47702
1-800-227-1376

A.B. BROWN
GENERATING STATION
POSEY COUNTY, IN

LOWER DAM
STABILIZING
BUTTRESS



ISSUED FOR BIDDING 3/28/16 VKG

ISSUED FOR CONSTRUCTION 5/12/16 VKG

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	5/12/16
1	REVISION 1	7/11/16
2	AS-BUILT DRAWINGS	10/11/16

AECOM PROJECT NO: 60442676

DRAWN BY: ACI

DESIGNED BY: ACI

CHECKED BY: VKG

DATE CREATED: 10/06/2016

PLOT DATE: 10/06/2016

SCALE: AS SHOWN

ACAD VER: AUTOCAD CIVIL 3D 2014

SHEET TITLE

CROSS
SECTIONS - SOIL
BUTTRESS

C-201

SHEET 08 OF 25

