

STRUCTURAL STABILITY ASSESSMENT

40 CFR 257.73 (d)

Ash Pond

Cabin Creek Site

Chelyan, WV

Revision 1- July 2026

Prepared for: Appalachian Power Company

Prepared by: American Electric Power Service Corporation

1 Riverside Plaza

Columbus, OH 43215



Cabin Creek Site

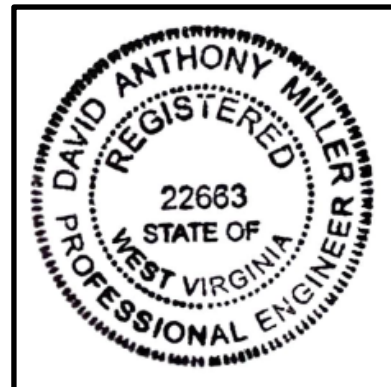
Ash Pond

Structural Stability Assessment

PREPARED BY _____ DATE _____
Dan Murphy, P.E.

REVIEWED BY _____ DATE _____
Blake Arthur, P.E.

APPROVED BY David Anthony Miller DATE 08.10.2026
David Miller, P.E.
Director- Ash Management Services



I certify to the best of my knowledge, information, and belief that the information contained in this structural stability assessment meets the requirements of 40 CFR § 257.73(d)

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Log of Revisions

Revision No.	Date	Summary
1	July 2026	Rehabilitation of 24" storm drain and timber piling inspection included in assessment.

1.0 OBJECTIVE

The “Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals From Electric Utilities; Legacy CCR Surface Impoundments”, 89 Fed. Reg. 38950 (May 8, 2024) (amending 40 C.F.R. §257) requires owners and operators of facilities with a legacy coal combustion residual (CCR) surface impoundment to prepare an initial structural stability assessment document for each legacy CCR surface impoundment at the facility.

The Ash Pond at the Cabin Creek Site is subjected to this rule.

2.0 DESCRIPTION OF THE CCR UNIT

The Cabin Creek site is located near Chelyan, West Virginia, near the intersection of MacCorkle Ave SE and Cabin Creek Rd., Cabin Creek, WV 25035. The latitude/longitude of the facility is: 38°11'52"N / 81°29' 6" W. The Ash Pond is approximately 19 acres. The Cabin Creek Power Plant was placed in service in 1914, stopped generating electricity in 1977, retired in 1981 and the site was razed in 1985-1987. The Ash Pond was constructed sometime around 1956.

The Ash Pond is located near the Kanawha River on the west side of the plant property. The Ash Pond was located on the west side of Cabin Creek, and the Power Plant was located on the East side of Cabin Creek.

According to the 1956 U.S. Army Corps Permit application, the ash pond was constructed by building a dike around Cabin Creek Island and filling the former river backchannel with dredged river sediments. To offset the loss of channel volume, approximately 200,000 cubic yards of compensatory dredging was completed adjacent to the Cabin Creek Island within the main river channel. The dike included a 650-foot-long southwest section reinforced with 35-foot-deep wood piling and rockfill, and a similarly long northeast section protecting the shoreline with riprap armor. The exterior slope of the dike was designed at 2H:1V and the interior slope was designed at 1.5H:1V. The 2H:1V slope extends below the navigational pool of the Marmet Lock and Dam (590 ft-msl) to an elevation of 575 ft-msl, 15 below the normal pool.

The former discharge structure is a pipe and riser type structure located at the western end of the Ash Pond. The riser structure is made of concrete and has grooves for receiving stop logs for controlling the pool level when the pond was active. The outlet pipe is a 24-inch-diameter reinforced concrete pipe. The discharge structure no longer functions, and the facility no longer impounds water.

3.0 STRUCTURAL STABILITY ASSESSMENT 257.73(d)

The Structural Stability Assessment was prepared by WSP USA, Inc. in July 2026 and is included as Attachment A.

Available records for the Cabin Creek Ash Pond indicate timber piling was installed along the normal pool shoreline of the Kanawha River for at least a portion of the dikes overall length. Remnants of the timber pile system were observed during previous annual inspections. An engineering assessment on the timber pilings was performed in June 2026 by Wood Research and Development. The timber pile system provides stability to slope failure surface along the critical failure section of the perimeter dike. However, sections of the Cabin Creek Ash Pond dike do not appear to have been constructed with timber piles along the shoreline. The sections of the embankment dam without timber piling does not meet the required factors of safety for slope stability. AEP is evaluating options to address the inadequate factor of safety deficiency.

There is a 24-inch-diameter storm drain that passes through the Cabin Creek Ash Pond. The Initial Structural Stability Assessment in May 2026 identified accumulated sediments were present in the pipe and the sediments limited the length of the pipe that could be inspected by the camera. AEP completed rehabilitation of the storm drain in June 2026 including replacing section the pipe outside of the limits of the pond and removing accumulated sediments to ensure functionality of the system. A video pipe inspection was performed after rehabilitating the storm drain system. The video pipe inspection identified no significant structural deficiencies that would adversely affect the performance of the system.

Based on the findings and general assessment in the updated Structural Stability Assessment, the Cabin Creek Ash Pond requires corrective action to meet required factors of safety for slope stability and to address dense vegetation on the slopes, which will be an on-going maintenance effort. AEP is evaluating options to address the inadequate factor of safety deficiency.

ATTACHMENT A

Initial Structural Stability Assessment Report



REPORT

Initial Structural Stability Assessment

Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, West Virginia

Submitted to:

Ms. Jane Petrie

American Electric Power Company, Inc.
Project Manager
1 Riverside Plaza,
Columbus, OH 43215

Submitted by:

WSP USA Inc.

3348 Peachtree Road NE, Suite 1100, Atlanta, Georgia, 30326

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US0041868.3924

July 9, 2026



Distribution List

Dan Murphy (dsmurphy1@aep.com)

Benjamin J Hackett (bjhackett@aep.com)

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FIGURES

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Figure 2: Site Topographic Map

APPENDICES

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Historical Drawings

APPENDIX B
Site Reconnaissance Photo Log

APPENDIX C
Cabin Creek Storm Drain Rehabilitation Documentation

CERTIFICATION

Professional Engineer Certification Statement [40 CFR §257.73(d)]

I hereby certify that, having reviewed the attached documentation and being familiar with the provisions of Title 40 of the Code of Federal Regulations Section §257.73 (40 CFR Part §257.73(d)), I attest that this Structural Stability Assessment is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of 40 CFR Part §257.73(d) periodic structural stability assessments.

WSP USA Inc.



Signature

July 9, 2026

Date of Report Certification

Steven J. Moeller, PE (AL, GA, NC, SC, TN, WV)

Name

27354

Professional Engineering Certification Number



1 INTRODUCTION

WSP USA Inc. (WSP) was retained by Appalachian Power Company, a subsidiary of American Electric Power Company, Inc. (AEP), to perform this initial Structural Stability Assessment for the Cabin Creek Ash Pond, an inactive Coal Combustion Residuals (CCR) surface impoundment. This assessment has been prepared in accordance with the requirements of 40 CFR Part §257, Subpart D, specifically §257.73(d).

The Former Cabin Creek Power Station (Plant), owned and operated by the Appalachian Power Company, is located along West Virginia State Route 61, adjacent to the Kanawha River (Figure 1). Cabin Creek is located between the former Plant and the ash pond and discharges into the Kanawha River, as shown in Figure 2. Operations at the Plant began in 1914 and ceased in 1977. The Plant and associated structures were demolished in 1981, and the ash pond was closed in compliance with applicable state regulations at that time. The ash pond covers approximately 19 acres and is surrounded by commercial and residential properties.

For this initial assessment, WSP performed a site visit on July 16, 2025, to observe site conditions.

2 BACKGROUND

The former Cabin Creek Power Station utilized a single surface impoundment, the Cabin Creek Ash Pond, to manage sluiced ash. This impoundment is located west of Cabin Creek and is classified as a legacy CCR impoundment under the United States Environmental Protection Agency's (USEPA) Legacy CCR Final Rule (May 28, 2024), which established regulatory requirements for legacy CCR surface impoundments and CCR management units.

The Cabin Creek Ash Pond is an inactive impoundment, which no longer impounds surface water, surrounded by an earthen berm that ranges in elevation from approximately 590 to 620 feet Mean Sea Level (MSL). The thickness of the ash within the bermed area ranges between approximately 5 and 33 feet. Only limited design and construction drawings are available, primarily from a United States Corps of Engineers (USACE) permit application from the 1950s (Appendix A).

The ash pond was constructed in the 1950s by dredging alluvial materials and sediments from the Kanawha River north of Cabin Creek Island and placing the dredged materials in the back channel on the southern side of the island. Historical drawings and boring logs indicate that these dredged materials were used to construct the perimeter dike to an approximate elevation of 605 feet MSL. The original USACE drawings show a timber pile retaining wall along a portion of the northern dike adjacent to the Kanawha River. Initial field observations (Appendix B) indicate that the north side of the pilings has filled in with sediments, and the top of the wall no longer extends above the waterline in the river. During the annual inspection of the ash pond performed in September 2025, AEP located remnants of these timber piles along the shoreline of the ash pond's northern dike. The images 1a and 1b (shown below) were taken in the western portion of the ash pond's northern dike and show the piles at the approximate locations depicted in the 1950 USACE drawings (Appendix A).



Image 1a



Image 1b

Images 1a and 1b: Timber piles along the shoreline in the western half of the ash pond's northern dike

The Cabin Creek Ash Pond received CCR material from the former Plant between approximately 1958 and 1977, after which time the Plant ceased operation. During its active period, bottom ash and fly ash were sluiced into the pond, and water levels were controlled via an outfall structure located on the western end that of the ash pond that conveyed stormwater from the impoundment to the Kanawha River. Based on a review of the embankment boring logs, it appears that the perimeter dike was raised at least twice to its current elevation of approximately 620 feet MSL. Initially, CCR materials were used to raise the height of the perimeter dike, followed by the use of CCR-Soil Mix to construct the uppermost section of the dike. CCR-Soil Mix refers to Earthfill material that contains inclusions of CCR. It is not meant to imply a uniformly blended mix of CCR and Earthfill.

Prior to 2025, the Cabin Creek Ash Pond was overgrown with vegetation and trees. In April and May 2025, AEP cleared vegetation from the top of the ash pond in preparation for subsequent investigations. Additionally, later in 2025, AEP cleared pathways on the northern embankment adjacent to the Kanawha River to facilitate access to this portion of the embankment for future inspections.

In June 2026, WSP retained Wood Research & Development, Inc. (WRD) to perform an inspection of the timber piles along the shoreline of the ash pond's northern dike.

3 Site Visit

WSP conducted a site visit to the Cabin Creek Ash Pond on July 16, 2025, to observe current site conditions, verify proposed boring locations, evaluate site accessibility for drilling equipment, and identify any logistical constraints. Mr. Steven Moeller and Mr. Naveen Kumar Ganji conducted the site visit on behalf of WSP. WSP personnel performed the following:

- Observed site conditions related to the structural stability of the impoundment, including berms, dikes, erosion protection, vegetation, slopes, stormwater drainage features, etc.
- Reviewed site access routes, working areas, and potential safety hazards
- Confirmed proposed boring locations and access to these locations
- Photographed site features (Appendix B)

During the site reconnaissance, the site observations were limited to features and structures that could be visually observed at the ground surface, and did not include invasive inspection, investigation, or exploration of the site, embankments, or structures. WSP noted the following observations at the site:

- The top of the former impoundment was recently cleared of trees and vegetation
- The principal spillway structure for the former impoundment was not properly abandoned and had been filled with soil and organic materials
- Several pipelines and manholes are located within the limits of the Cabin Creek Ash Pond, primarily related to routing stormwater around the ash pond
- The northern slope of the ash pond along the Kanawha River and the northeastern slope are heavily wooded with trees and vegetation, making it difficult to inspect
- Uprooted fallen trees were observed at the crest of the northern slope of the ash pond along the Kanawha River
- Due to the heavy vegetation observed on the exterior dike slopes, only limited areas of erosion were observed

4 STRUCTURAL STABILITY ASSESSMENT [CFR 40 §257.73(d)(1)(i)-(vii)]

The CCR Rule requires an initial structural stability assessment to be conducted by a qualified professional engineer to document whether the design, construction, operation, and maintenance are consistent with recognized and generally accepted good engineering practices for the maximum volume of CCR and CCR wastewater that can be impounded therein. The following sections provide documentation of the initial structural stability assessment and rely mainly on the recent site inspection performed at the site. The most recent inspection was completed by WSP in July 2025, specifically to assess the structural stability of the ash pond.

4.1 Foundations and Abutments [CFR 40 §257.73(d)(1)(i)]

CCR unit has been designed, constructed, operated, and maintained with stable foundations and abutments.

The stability of the foundations and abutments was evaluated by observing the legacy CCR impoundment and using soil data from field investigations performed at the site to assess the stability of the dike and foundations. There has been no indication of foundational or abutment instability or movement in the recent site inspection.

The alluvium consists primarily of silt, silty clay, and lean clays with varying amounts of sand, gravel, and mica. Field standard penetration tests (SPT) N-values recorded in the alluvial soils ranged from Weight of Hammer (WOH) over 18 inches to 17 blows per foot (bpf), indicating very soft to very stiff consistency. Laboratory tests conducted on the alluvial soils indicate in situ moisture contents ranging from 19.7% to 29%.

Atterberg Limits testing performed on samples of the alluvial soils resulted in Liquid Limits ranging from NP (Non-Plastic) to 23% and Plasticity Indices ranging from NP to 5%. Gradation testing performed on these samples showed 19.8% to 67.8% material passing the No. 200 sieve.

Based on the stability analysis performed, stabilization measures will be required for the northern dike to meet the prescribed factors of safety for the site and demonstrate stable foundations. Additionally, minor regrading will likely be required for the southern dike to meet the prescribed factors of safety for the site.

4.2 Slope Protection [CFR 40 §257.73(d)(1)(ii)]

CCR unit has been designed, constructed, operated, and maintained with adequate slope protection to protect against surface erosion, wave action and adverse effects of sudden drawdown.

There are no interior slopes for the ash pond as the impoundment is full and no longer impounds water. The downstream slopes of the ash pond dike are protected from erosion and deterioration by the establishment of heavy vegetative cover. Thick vegetation is present over the downstream slope of the dike adjacent to the Kanawha River. Existing slopes have been inspected for erosion, signs of seepage, animal burrows, and sloughing. Although no evidence of significant erosion or wave action was observed, there are areas along the dike above the normal pool level in the Kanawha River that show signs of erosion with over-steepened slopes above the erosion areas. Since the area was heavily wooded, it wasn't possible to inspect the full extents of the slope. Generally, the existing slope protection measures are considered adequate to further protect against surface erosion, wave action, and the adverse effects of sudden drawdown. The larger trees/vegetation will need to be removed to provide better access in order to fully inspect the downstream slopes.

4.3 Dikes (Embankment) [CFR 40 §257.73(d)(1)(iii)]

CCR unit has been designed, constructed, operated, and maintained with dikes mechanically compacted to a density sufficient to withstand the range of loading conditions in the CCR unit.

As previously noted, certified drawings were not available for the original design of the Cabin Creek Ash Pond. Based on subsurface investigation information, it is believed that the perimeter dike was constructed with standard earthwork equipment and is comprised of fill material consisting of re-compacted alluvial soils, bottom ash, and fly ash.

Earthfills used to construct the perimeter berms were visually classified as silt and silty sand. Field SPT N-values recorded in this material ranged from 0 to 44 bpf, with most of the blow counts ranging between 5 and 25 bpf, indicating loose to compact relative density. The average of SPT-N values for this material was 12 bpf. Laboratory tests indicated the in-situ moisture contents ranging from 6.7% to 29.2%. Gradation tests performed on four samples showed 22.6% to 52.6% material passing the No. 200 sieve.

CCR-Soil Mix (Embankment) and CCR (Embankment) materials used to raise the perimeter berms were also visually classified as silt and silty sand. SPT N-values for these materials ranged from 1 to 24 bpf, with most values between 5 and 15 bpf indicating loose to compact relative density. The average of SPT-N values for these

materials was 11 bpf. Laboratory tests showed in-situ moisture contents ranging from 15% to 41.9%. Gradation tests on four samples showed that 18.9% to 78.6% of the material passed the No. 200 sieve.

Slope stability analyses were performed to evaluate slip surfaces passing through the dikes over the range of expected loading conditions as defined within the section (§257.73). Calculations performed at the site indicate that the steeper slopes of the embankment do not meet the prescribed factors of safety under the CCR Rule. Based on the results of the stability analysis, the embankment dikes are not sufficient to withstand the range of loading conditions in the ash pond. Slope stabilization measures are required meet the minimum factors of safety.

4.4 Vegetated Slopes [CFR 40 §257.73(d)(1)(iv)]

CCR unit has been designed, constructed, operated, and maintained with vegetated slopes of dikes and surrounding areas, except for slopes which have an alternate form or forms of slope protection.

The EPA has vacated the requirement that vegetative cover on surface impoundment dikes be maintained at no more than six inches. However, the heavy tree growth/vegetation on the exterior slopes of the dike specifically on the north and east ends of the ash pond are not consistent with good engineering practices. These areas should be cleared such that appropriate monitoring of the perimeter dike can be performed.

4.5 Spillways [CFR 40 §257.73(d)(1)(v)]

CCR unit has been designed, constructed, operated, and maintained with a single spillway or a combination of spillways configured as specified in paragraph (d)(1)(v)(A). The combined capacity of all spillways must be designed, constructed, operated, and maintained to adequately manage flow during and following the peak discharge.

The Cabin Creek Ash Pond is an inactive impoundment that no longer retains or has the ability to retain ponded water within the impoundment. Therefore, this section of the structural stability assessment is not applicable.

4.6 Hydraulic Structures [CFR 40 §257.73(d)(1)(vi)]

CCR unit has been designed, constructed, operated, and maintained such that the hydraulic structures underlying the base of the CCR unit or passing through the dike of the CCR unit maintain structural integrity and are free of significant deterioration, deformation, distortion, bedding deficiencies, sedimentation, and debris which may negatively affect the operation of the hydraulic structure.

There are numerous hydraulic structures, primarily pipes, that are located within the boundaries of the CCR unit. In order to evaluate these hydraulic structures, AEP completed storm drain rehabilitation activities and a comprehensive video pipe inspection (VPI) program during May and June 2026. Rehabilitation work included replacement of approximately 250 feet of severely corroded corrugated metal pipe with new corrugated plastic pipe, installation of a new precast concrete manhole to facilitate future inspection and maintenance, and stabilization of the outlet at the Kanawha River. The extent of the storm drain rehabilitation project is shown in Figure 2. The entire length of corrugated metal pipe at the outfall into the Kanawha River was replaced up to where the storm drain transitions to reinforced concrete pipe.

The remaining concrete storm drain beneath the CCR unit from the newly installed manhole to the existing manhole near the intersection of Grady Street and Appalachian Street was hydro-jetted to remove accumulated sediment and subsequently inspected using closed-circuit television (CCTV). The post-cleaning CCTV inspection confirmed that sediment accumulation had been successfully removed and that the storm drain is unobstructed and in generally good functional condition. The CCTV inspection identified no significant structural deficiencies

including cracks, offset joints, excessive deformation, or other conditions that would adversely affect the hydraulic performance of the pipe. Representative rehabilitation activities and post-cleaning inspection results are documented in Appendix C, including construction photographs and CCTV images showing storm drain conditions before and after hydro-jetting.

Although the storm drainpipe has been rehabilitated, the presence of this pipe in the foundation of the former ash pond could require additional measures during the closure of the Cabin Creek Ash Pond. Additionally, there are other inactive pipes located within the ash pond that should be evaluated and properly abandoned as part of future closure activities, if necessary.

4.7 Downstream Slopes Adjacent to Water Body [CFR 40 §257.73(d)(1)(vii)]

CCR unit has been designed, constructed, operated and maintained with, for CCR units with downstream slopes which can be inundated by the pool of an adjacent water body, such as a river, stream or lake, downstream slopes that maintain structural stability during low pool of the adjacent water body or sudden drawdown of the adjacent water body.

The Cabin Creek Ash Pond is situated immediately adjacent to the Kanawha River. The river water elevation is regulated through a system of locks and gates, providing controlled flow conditions under normal and high-water scenarios. WSP reviewed USGS water gauge data both upstream and downstream of the site. The data indicate that prolonged flooding doesn't occur in this portion of the Kanawha River. As the river is a navigable channel, the river rises quickly during storm events, and then water is released, and the base water level conditions are re-established. Given this operational control, the occurrence of prolonged high-water levels sufficient to saturate the exterior slope of the dike (i.e., temporarily increasing the phreatic surface in the ash pond), followed by a sudden and significant drawdown, is not considered a credible loading condition. WSP reviewed available water level readings along the Kanawha River, which further suggests that significant water level changes in the alluvial soil do not occur.

Accordingly, a rapid drawdown stability analysis has not been performed, as this loading condition does not represent a realistic or governing case for the site.

5 STRUCTURAL STABILITY DEFICIENCIES [CFR 40 §257.73(d)(ii)]

The periodic assessment described in CFR 40 §257.73(d)(i) must identify any structural stability deficiencies associated with the CCR unit in addition to recommending corrective measures. If a deficiency or a release is identified during the periodic assessment, the owner or operator unit must remedy the deficiency or release as soon as feasible and prepare documentation detailing the corrective measures taken.

As indicated in the previous paragraphs, a few structural deficiencies were noted at the Cabin Creek Ash Pond. AEP must remedy these deficiencies as soon as feasible and document the corrective measures taken.

Signature Page

WSP USA Inc.



Naveen Kumar Ganji, PE (GA, TN, TX, VA)
Senior Consultant

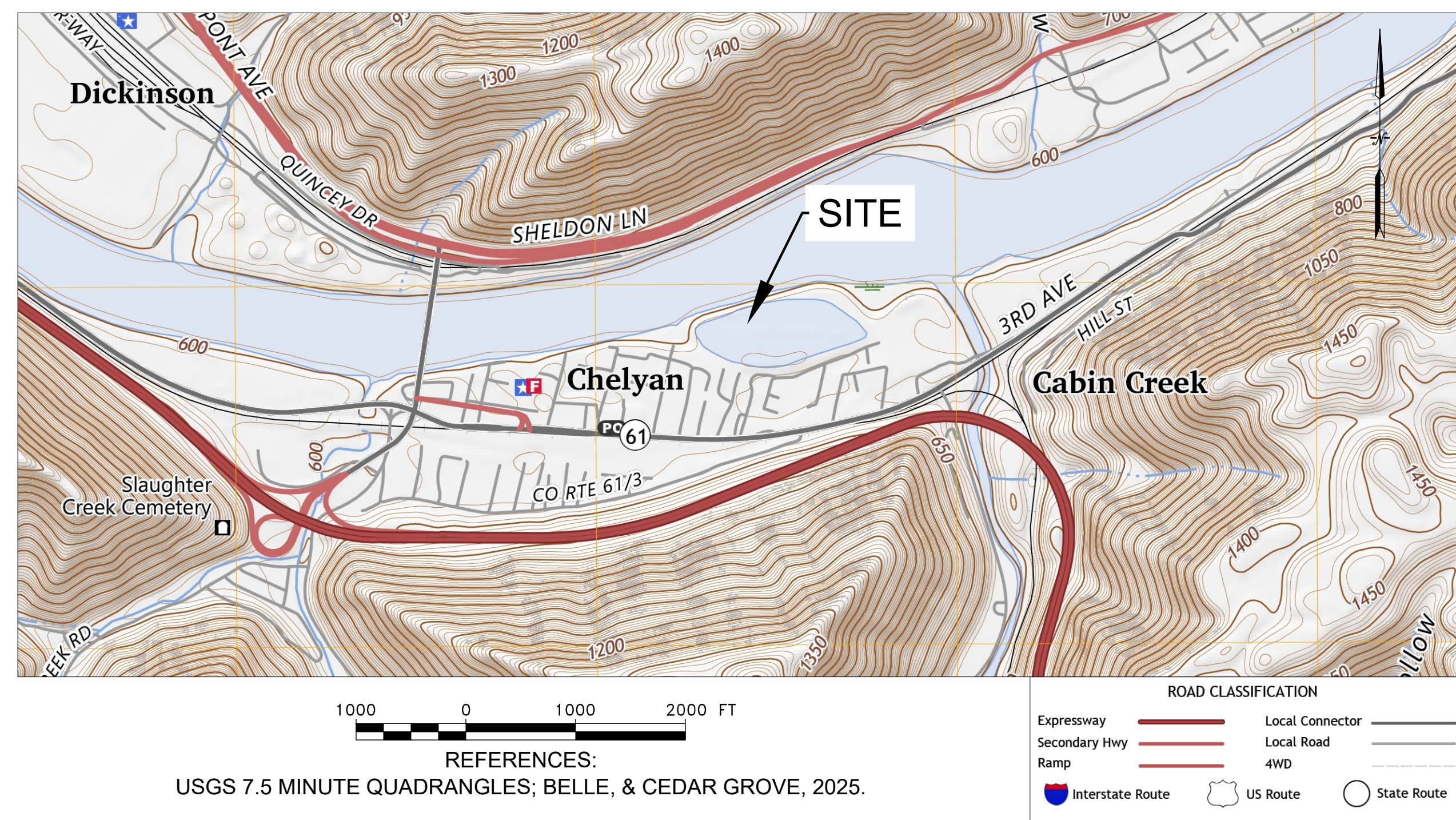
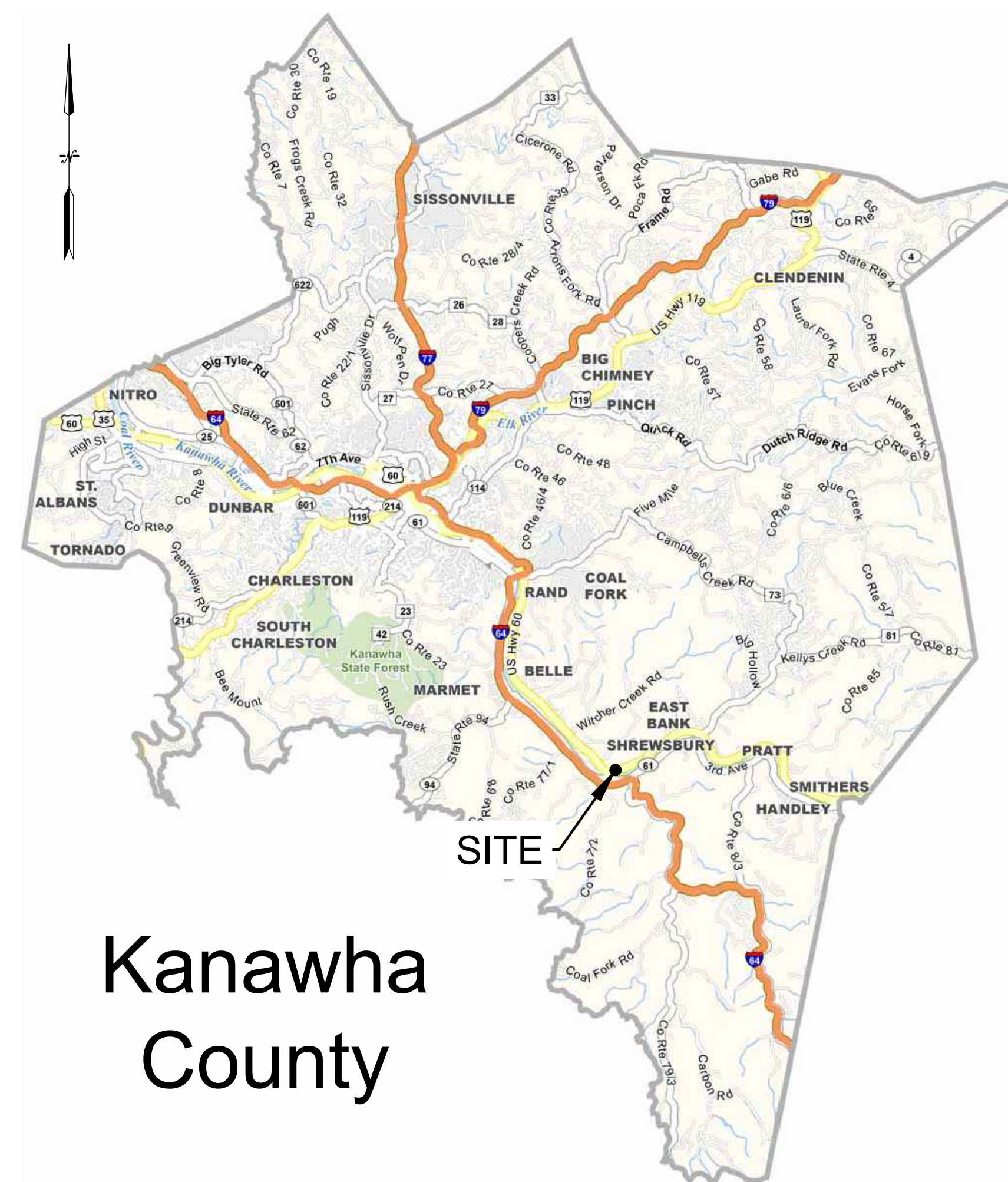
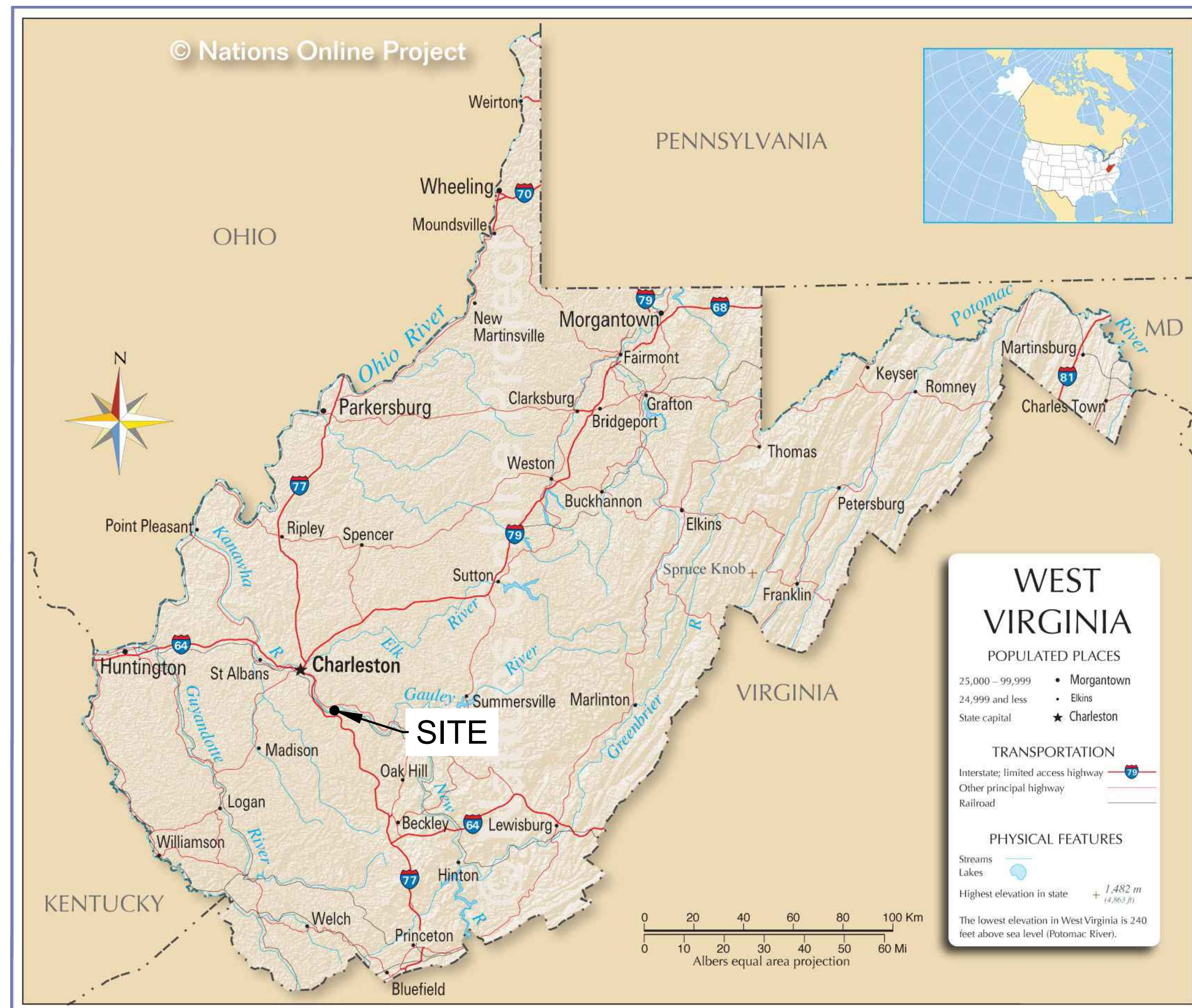


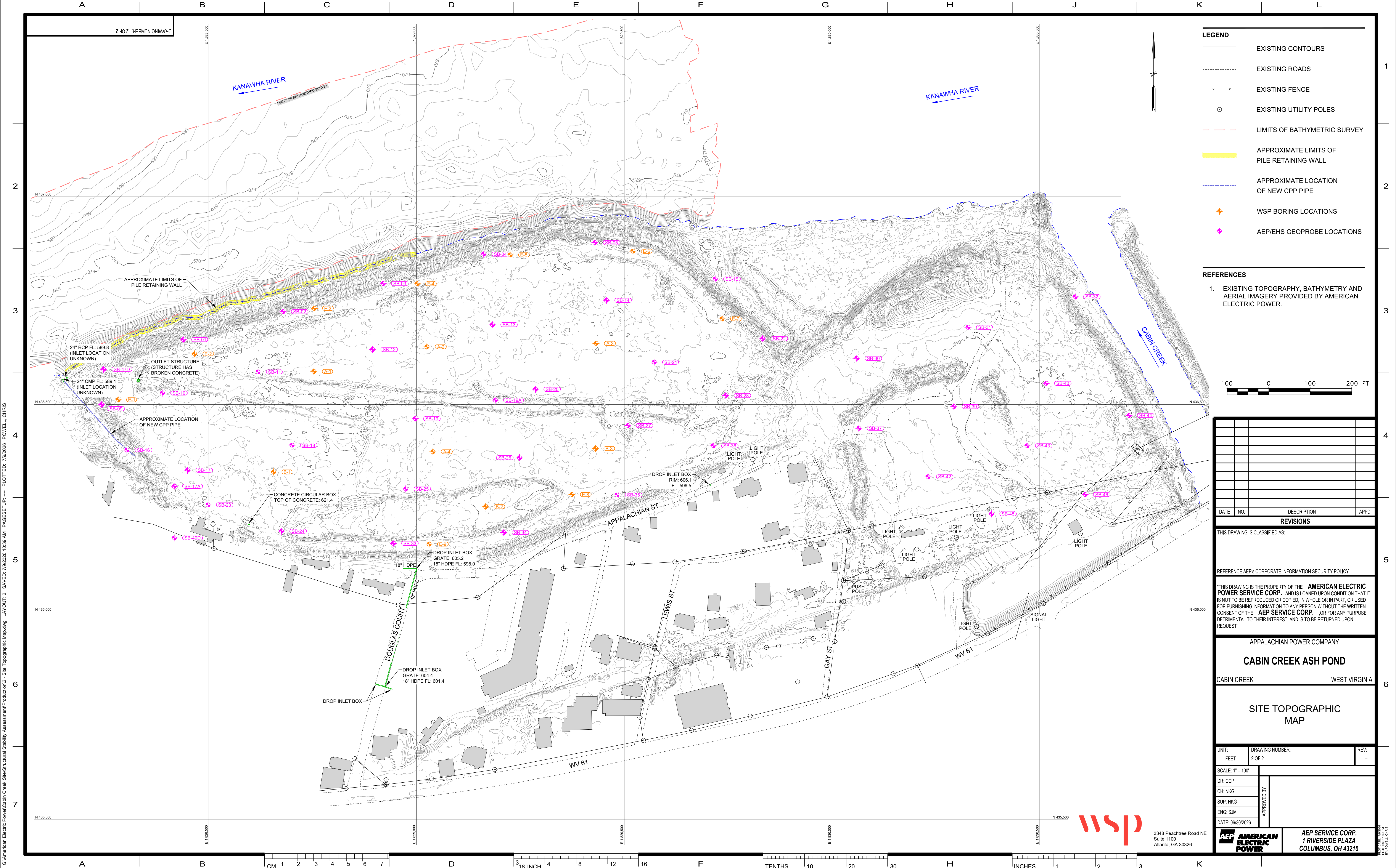
Steven J. Moeller, PE (AL, GA, NC, SC, TN, WV)
Senior Vice President

NG/SM/ng

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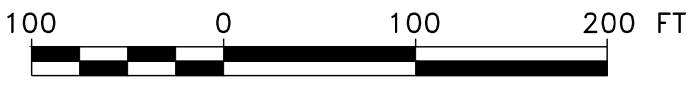
Figures

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- LEGEND**
- EXISTING CONTOURS
 - EXISTING ROADS
 - EXISTING FENCE
 - EXISTING UTILITY POLES
 - LIMITS OF BATHYMETRIC SURVEY
 - APPROXIMATE LIMITS OF PILE RETAINING WALL
 - APPROXIMATE LOCATION OF NEW CPP PIPE
 - WSP BORING LOCATIONS
 - AEP/EHS GEOPROBE LOCATIONS

- REFERENCES**
- EXISTING TOPOGRAPHY, BATHYMETRY AND AERIAL IMAGERY PROVIDED BY AMERICAN ELECTRIC POWER.



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REVISIONS			
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APPALACHIAN POWER COMPANY			
CABIN CREEK ASH POND			
CABIN CREEK		WEST VIRGINIA	
SITE TOPOGRAPHIC MAP			
UNIT: FEET	DRAWING NUMBER: 2 OF 2	REV: --	
SCALE: 1" = 100'		APPROVED BY	
DR: CCP			
CH: NKG			
SUP: NKG			
ENG: SUM			
DATE: 06/30/2026			
 AMERICAN ELECTRIC POWER		AEP SERVICE CORP. 1 RIVERSIDE PLAZA COLUMBUS, OH 43215	



3348 Peachtree Road NE
Suite 1100
Atlanta, GA 30326

APPENDIX A

Historical Drawings

PM.6 (Yankee) - Pine
Dredging) - 11.11.11

11 January 1956

Appalachian Electric Power Company
30 Church Street
New York 6, New York

Gentlemen:

In accordance with your written request dated 6 January 1956, the revised plans hereto attached are approved to supersede the plans for the works authorized by the Secretary of the Army, in letter dated 14 April 1954, from the Acting District Engineer at Huntington, West Virginia, to construct a dike around Cabin Creek Island, dredge approximately 200,000 cubic yards of material along the island and fill the back channel of the island, in the Kanawha River, at Cabin Creek Junction, West Virginia, 74.0 miles above the mouth of the river.

The revised plans provide for the addition of a line of wood piles, with rock fill landward of the piling, for a distance of 650 feet along the downstream riverward portion of the dike, and stone riprap for a distance of 650 feet along the upstream riverward portion of the dike.

The conditions to which the work is made subject remain in full force and effect.

Please acknowledge receipt of this letter.

By authority of the Secretary of the Army:

Drawing No. S-SK 13153,
in 3 sheets, revised
6 January 1956, attached

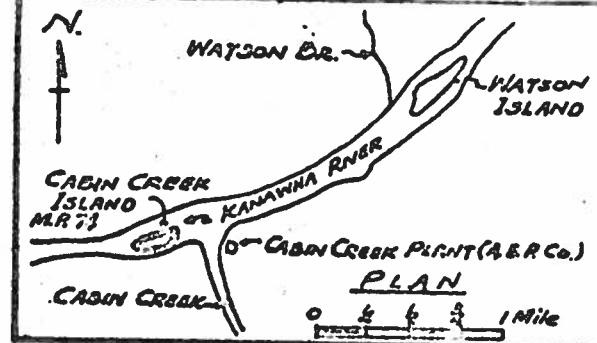
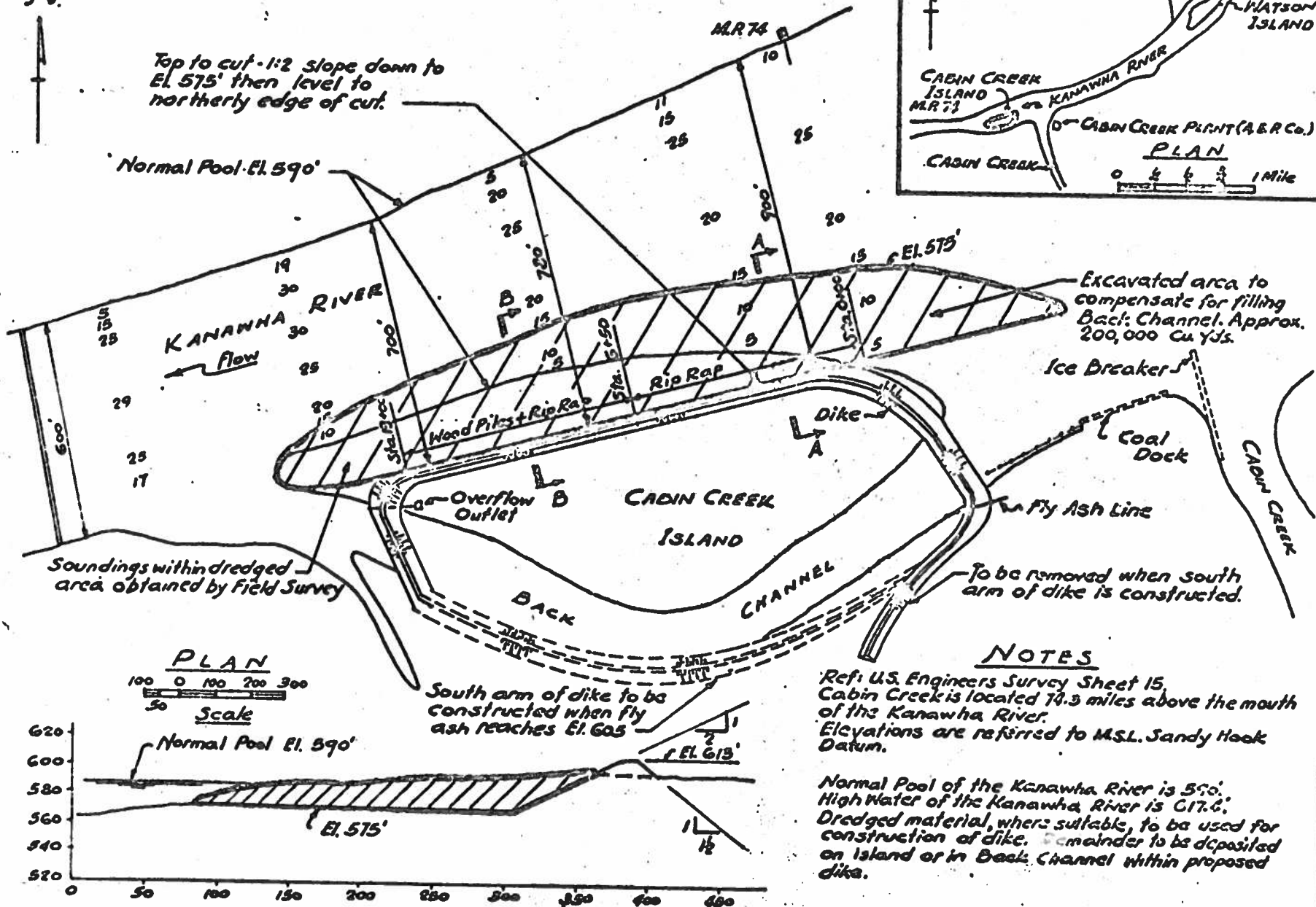

G. T. DERBY
Colonel, Corps of Engineers
District Engineer

PM.6 (Kanawha R. - Dike & Dredging) - 14.91



Top to cut 1:2 slope down to
El. 575' then level to
northerly edge of cut.

Normal Pool El. 590'



NOTES

Ref: U.S. Engineers Survey Sheet 15,
Cabin Creek is located 74.3 miles above the mouth
of the Kanawha River.
Elevations are referred to M.S.L. Sandy Hook
Datum.

Normal Pool of the Kanawha River is 590'.
High Water of the Kanawha River is 617.6'.
Dredged material, where suitable, to be used for
construction of dike. Remainder to be deposited
on island or in Back Channel within proposed
dike.

Application By:
Appalachian Electric Power Company,
Cabin Creek, West Virginia.
October 21, 1954

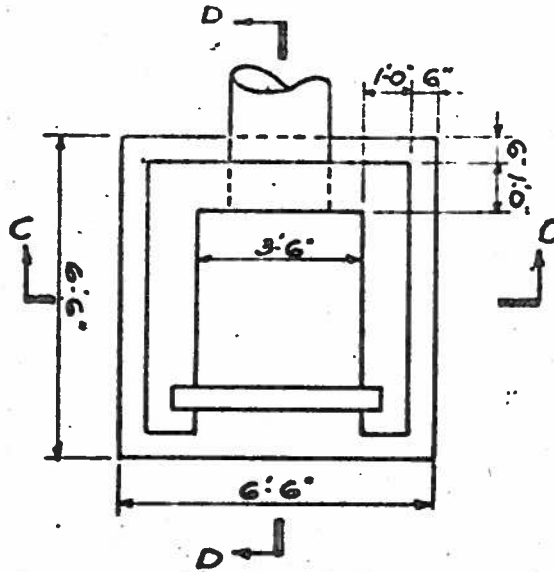
Revised 2-13-56
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PROPOSED FLY ASH STORAGE
AT CABIN CREEK ISLAND
CABIN CREEK POWER PLANT

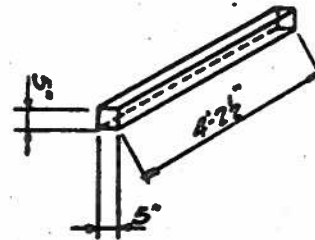
Application By:
 Appalachian Electric Power Company
 Cabin Creek, West Virginia
 October 24, 1958

Revised 1-6-58

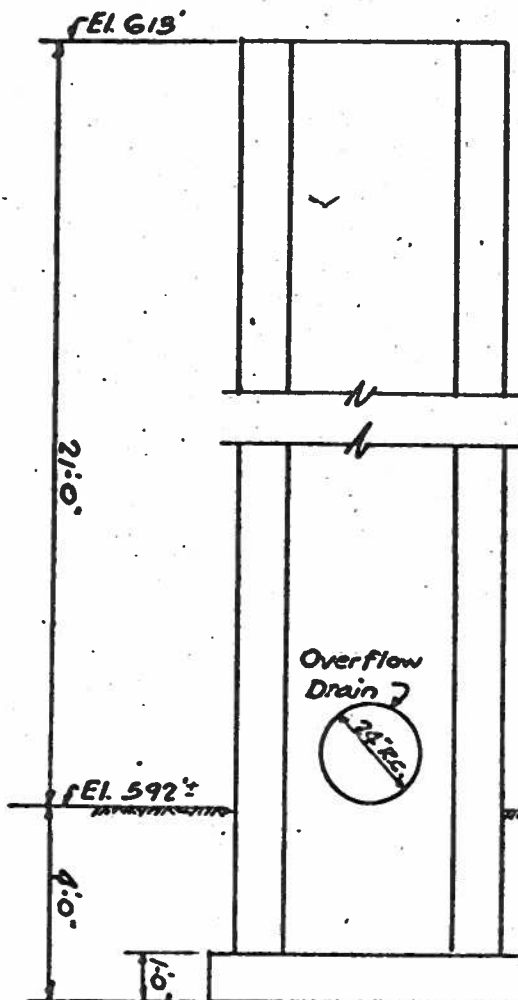
DETAIL OF OVERFLOW OUTLET
 IN FLY ASH STORAGE AREA
 AT CABIN CREEK ISLAND
 CABIN CREEK POWER PLANT
 D-1 NA 5-1-1153



PLAN

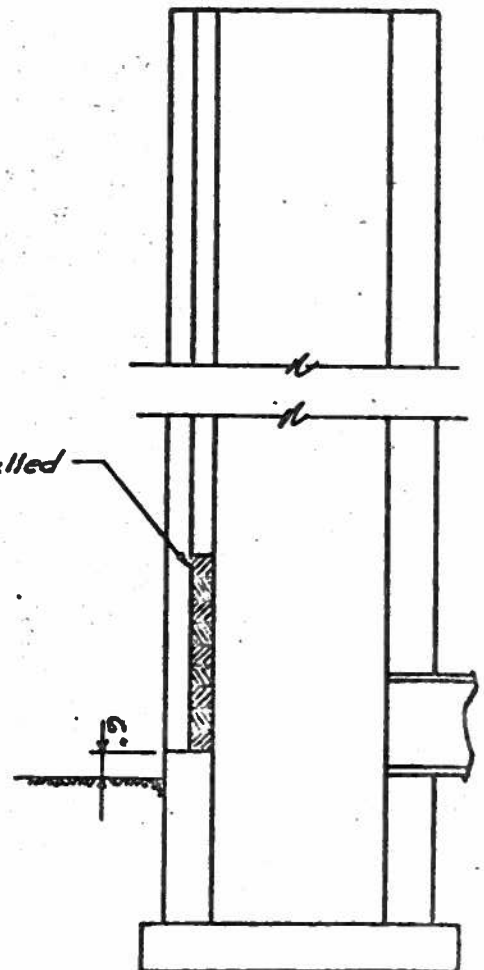


DETAIL OF CONCRETE PLANK

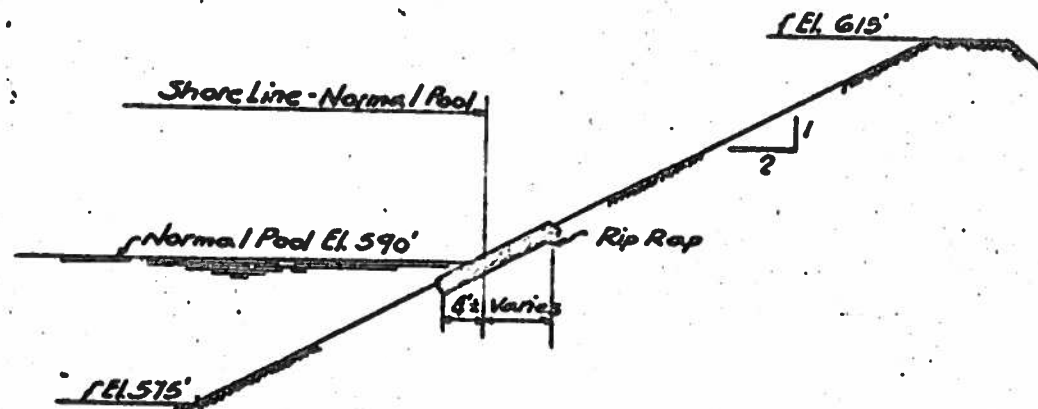


SECTION C-C

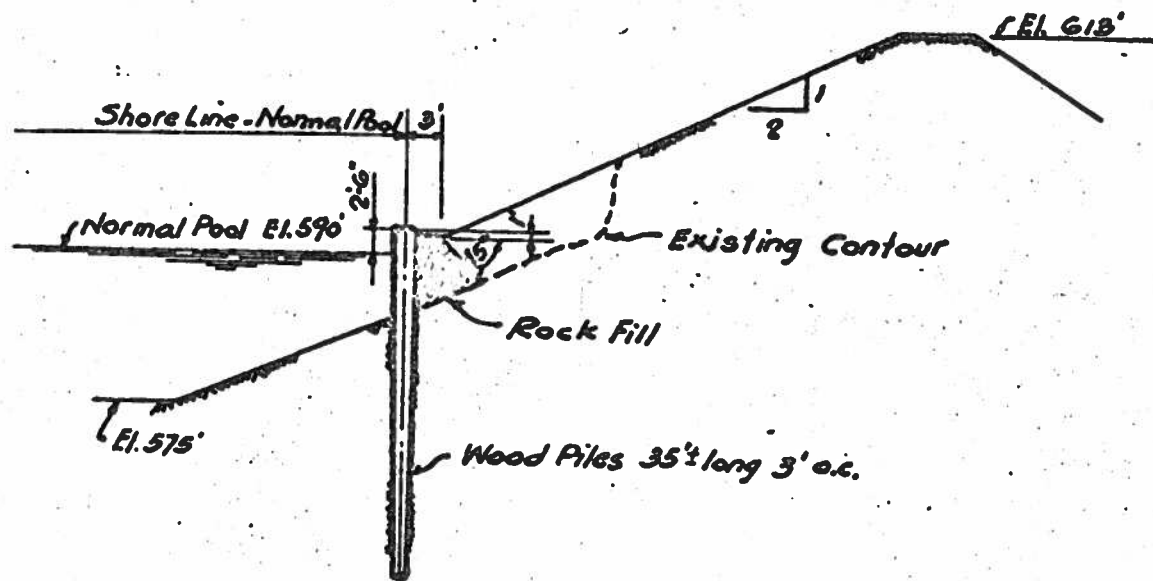
Planks installed
 as required



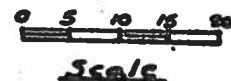
SECTION D-D



SECTION A-A (ENLARGED)
Typical For Stations 0+00-6+50



SECTION B-B
Typical For Stations 6+50-13+00



Application By:
 Appalachian Electric Power Company
 Cabin Creek, West Virginia
 January 6, 1956

PROPOSED FLY ASH STORAGE
 AT CABIN CREEK ISLAND
 CABIN CREEK POWER PLANT
 JAN 13 1956

DEPARTMENT OF THE ARMY

NOTE.—It is to be understood that this instrument does not give any property rights either in real estate or material, or any exclusive privilege; and that it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining State assent to the work authorized. IT EXPRESSLY EXPRESSES THE ASSENT OF THE FEDERAL GOVERNMENT SO FAR AS CONCERNS THE PUBLIC RIGHTS OF NAVIGATION. (See *Crummey v. Chicago*, 188 U. S., 410.)

16-17104-2

PERMIT

Huntington District
Corps of Engineers.
Huntington 18, W. Va.
18 April, 1954

Appalachian Electric Power Company
30 Church Street
New York 6, New York

Gentlemen:

Referring to written request dated 19 February 1954 (signed by H. A. Kamber, Vice President) addressed to the District Engineer, Huntington District, Corps of Engineers, U. S. Army, P. O. Box 2127, Huntington, West Virginia,

I have to inform you that, upon the recommendation of the Chief of Engineers, and under the provisions of Section 10 of the Act of Congress approved March 3, 1899, entitled "An act making appropriations for the construction, repair, and preservation of certain public works on rivers and harbors, and for other purposes," you are hereby authorized by the Secretary of the Army.

to construct a dike around Cabin Creek Island, dredge approximately 200,000 cubic yards of material along the island and fill the back channel of the island,
(Here describe the proposed structure or work.)

in the Kanawha River,

(Here to be named the river, harbor, or waterway concerned.)

at Cabin Creek Junction, West Virginia, 74.0 miles above the mouth of the river,
(Here to be named the nearest well-known locality—preferably a town or city—and the distance in miles and tenths from some definite point in the same, stating whether above or below or giving direction by points of compass.)

in red

in accordance with the plans shown on the drawing attached hereto marked "Proposed Fly Ash Storage at Cabin Creek Island #2, Dwg. No. S-SK-10153," in two sheets, dated 21 October 1953, revised 16 February 1954,
(Or drawings: give file number or other definite identification marks.)

subject to the following conditions:

(a) That the work shall be subject to the review and approval of the District Engineer, Corps of Engineers, in charge of the locality, who may suspend and suspend the work at any time, if in his judgment the interests of navigation so require.

(b) That any material dredged in the prosecution of the work herein authorized shall be removed evenly and no large refuse piles, ridges across the bed of the waterway, or deep holes that may have a tendency to cause injury to navigable channels or to the bottom of the waterway shall be left. If any pipe, wire, or cable hereby authorized is laid in a trench, the formation of the bottom of the waterway shall be avoided and the back filling shall be so done as not to increase the cost of future dredging for navigation. Any material to be deposited or dumped under this authorization, shall be in the waterway or on shore above high-water mark, shall be deposited or dumped at the locality shown on the drawing to be attached, and, if so prescribed thereon, within or behind a good and substantial bulkhead or bulkheads, such as will prevent escape of the material in the waterway. If the material is to be deposited in the harbor of New York, or in its adjacent or tributary waters, or in Long Island Sound, a permit therefor must be previously obtained from the Supervisor of New York Harbor, Whitehall Building, New York City.

(c) That there shall be no unreasonable interference with navigation by the work herein authorized.

(d) That if inspections or any other operations by the United States are necessary in the interest of navigation, all expenses connected therewith shall be borne by the permittee.

(e) That no attempt shall be made by the permittee or the owner to forbid the full and free use by the public of all navigable waters at or adjacent to the work or structure.

(f) That if future operations by the United States require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army, it shall cause unreasonable obstruction to the free navigation of said water, the owner will be required upon due notice from the Secretary of the Army, to remove or alter the structural work or obstructions caused thereby without expense to the United States, so as to render navigation reasonably free, easy, and unobstructed; and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners shall, without expense to the United States, and to such extent and in such time and manner as the Secretary of the Army may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable capacity of the watercourse. No claim shall be made against the United States on account of any such removal or alteration.

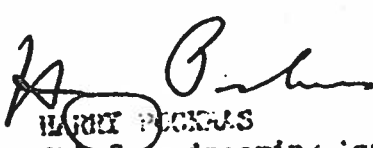
(g) That the United States shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the Government for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

(h) That if the display of lights and signals on any work hereby authorized is not otherwise provided for by law, such lights and signals as may be prescribed by the U. S. Coast Guard, shall be installed and maintained by and at the expense of the owner.

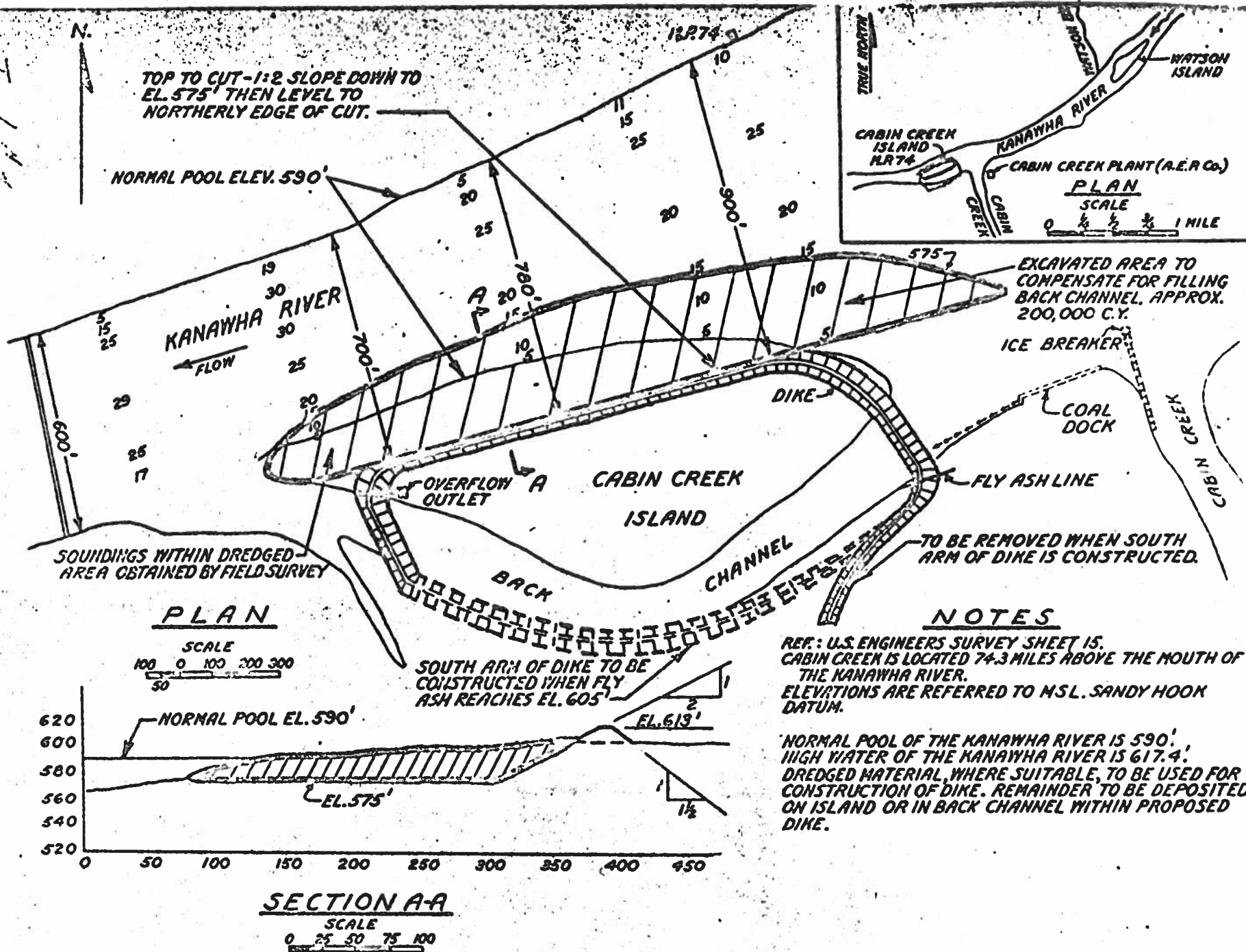
(i) That the permittee shall notify the said district engineer at what time the work will be commenced, and as far in advance of the time of commencement as the said district engineer may specify, and shall also notify him promptly, in writing, of the commencement of work, suspension of work, if for a period of more than one week, resumption of work, and its completion.

(j) That if the structure or work herein authorized is not completed on or before thirty-first (31st) day of October, 1917, this permit, if not previously revoked or specifically extended, shall cease and be null and void.

By authority of the Secretary of the Army:

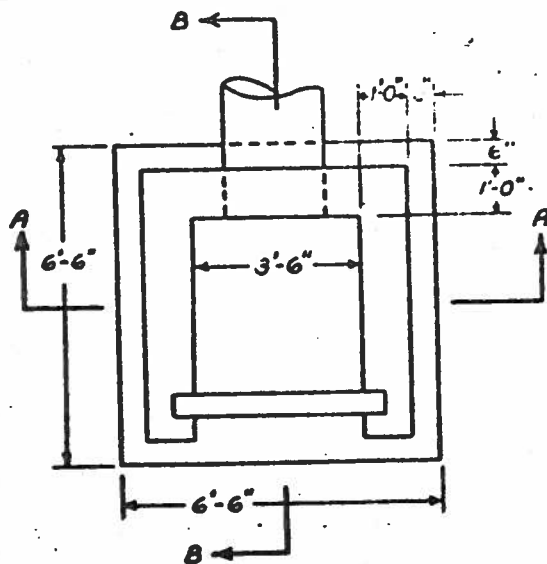

HARRY BECKWITH
Chief Engineer, Assistant
Acting District Engineer

Incl. 1

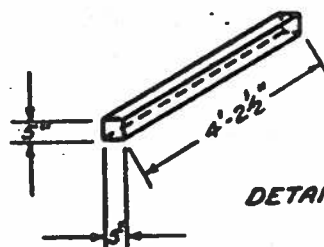


APPLICATION BY:
APPALACHIAN ELECTRIC POWER COMPANY
CARIN CREEK, WEST VIRGINIA
OCTOBER 21, 1953 REVISED 2-16-54

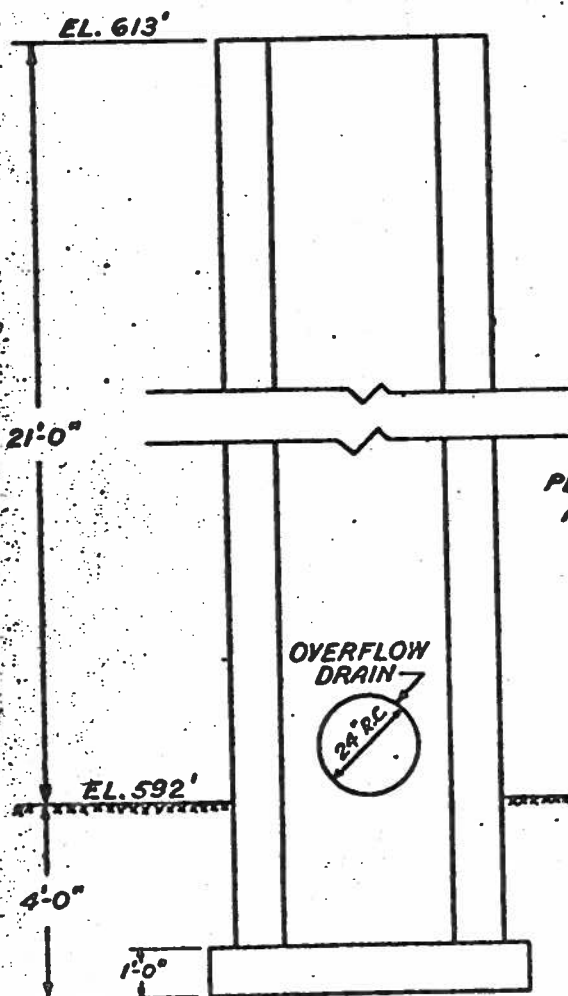
**PROPOSED FLY ASH STORAGE
AT CABIN CREEK ISLAND
CABIN CREEK POWER PLANT
SHEET 1052 DWG No. S-SK-10153**



PLAN

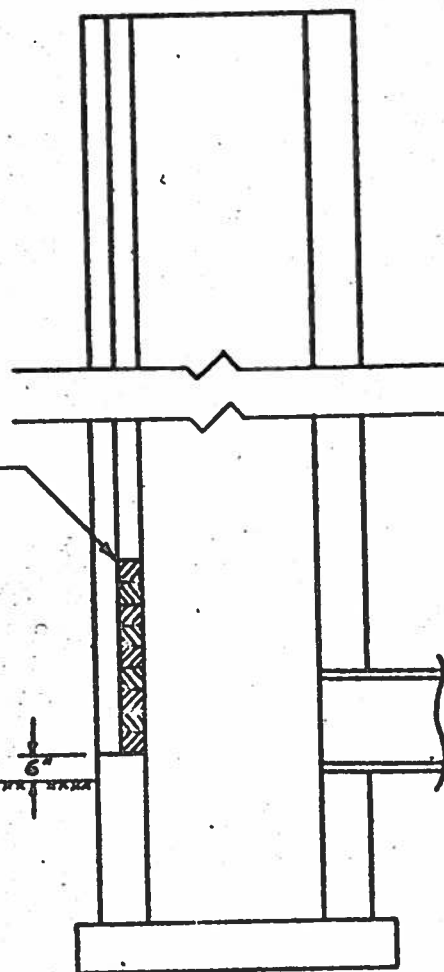


DETAIL OF CONCRETE PLANK



SECTION A-A

PLANKS INSTALLED
AS REQUIRED



SECTION B-B

DETAIL OF OVERFLOW OUTLET
FLY ASH STORAGE AREA
CABIN CREEK POWER PLANT
SHEET 2 OF 2 - DWG. No. S-SK-10153
SCALE: 1/4" = 1'-0"

APPLICATION BY:
APPALACHIAN ELECTRIC POWER COMPANY
CABIN CREEK, WEST VIRGINIA
OCTOBER 21, 1953

WAR DEPARTMENT

NOTE.—It is to be understood that this instrument does not give any property rights either in real estate or material, or any exclusive privileges; and that it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining State assent to the work authorized. IT MERELY EXPRESSES THE ASSENT OF THE FEDERAL GOVERNMENT SO FAR AS CONCERNS THE PUBLIC RIGHTS OF NAVIGATION. (See *Cummings v. Chicago*, 183 U. S., 410.) 10-12143

PERMIT

United States Engineer Office.
Ohio River Division
Columbus, Ohio August 2, 1903.

Appalachian Electric Power Company
201 Virginia Street
Charleston, West Virginia

Gentlemen:

Referring to written request dated July 10, 1903 (signed by Dr. P. B. Montague, Civil Engineer) addressed to the District Engineer, United States Engineer Office, Huntington, West Virginia—

I have to inform you that, upon the recommendation of the Chief of Engineers, and under the provisions of Section 10 of the Act of Congress approved March 3, 1899, entitled "An act making appropriations for the construction, repair, and preservation of certain public works on rivers and harbors, and for other purposes," you are hereby authorized by the Secretary of War,

to construct a 10-inch sanitary sewer outlet and concrete handrail.

(Here describe the proposed structure or work.)

in Kanawha River, left bank,

(Here to be named the river, harbor, or waterway concerned.)

at Cabin Creek, West Virginia, 5000 feet above the mouth of Cabin Creek, 71.0

(Here to be named the nearest well-known locality—preferably a town or city—and the distance in miles and tenths from some definite point in the same, stating whether above or below or giving direction by points of compass.)

miles above the mouth of the Kanawha River.

In accordance with the plans shown on the drawing attached hereto marked "Proposed

(Or drawings; give file number or other definite identification marks.)

Handrail & Outlet for A 10" Sanitary Sewer 0 0 0", in one sheet dated July 10, 1903

subject to the following conditions:

INCL. 272

(c) That the work shall be subject to the supervision and approval of the District Engineer, Engineer Department at Large, in charge of the locality, who may temporarily suspend the work at any time, if in his judgment, the interests of navigation so require.

(b) That any material dredged in the prosecution of the work herein authorized shall be removed evenly, and no large refuse piles, ridges across the bed of the waterway, or deep holes that may have a tendency to cause injury to navigable channels or to the banks of the waterway shall be left. If any pipe, wire, or cable hereby authorized is laid in a trench, the formation of permanent ridges across the bed of the waterway shall be avoided and the back filling shall be so done as not to increase the cost of future dredging for navigation. Any material to be deposited or dumped under this authorization, either in the waterway or on shore above high-water mark, shall be deposited or dumped at the locality shown on the drawing hereto attached, and, if so prescribed thereon, within or behind a good and substantial bulkhead or bulkheads, such as will prevent escape of the material into the waterway. If the material is to be deposited in the harbor of New York, or in its adjacent or tributary waters, or in Long Island Sound, a permit therefor must be previously obtained from the Supervisor of New York Harbor, Army Building, New York City.

(c) That there shall be no unreasonable interference with navigation by the work herein authorized.

(d) That if inspections or any other operations by the United States are necessary in the interests of navigation, all expenses connected therewith shall be borne by the permittee.

(e) That no attempt shall be made by the permittee or the owner to forbid the full and free use by the public of all navigable waters at or adjacent to the work or structure.

(f) That if future operations by the United States require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Secretary of War, it shall cause unreasonable obstruction to the free navigation of said water, the owner will be required, upon due notice from the Secretary of War, to remove or alter the structural work or obstructions caused thereby without expense to the United States, so as to render navigation reasonably free, easy, and unobstructed; and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners shall, without expense to the United States, and to such extent and in such time and manner as the Secretary of War may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable capacity of the watercourse. No claim shall be made against the United States on account of any such removal or alteration.

(g) That the United States shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the Government for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

(A) That if the display of lights and signals on any work hereby authorized is not otherwise provided for by law, such lights and signals as may be prescribed by the U. S. Coast Guard, shall be installed and maintained by and at the expense of the owner.

(i) That the permittee shall notify the said district engineer at what time the work will be commenced, and as far in advance of the time of commencement as the said district engineer may specify, and shall also notify him promptly, in writing, of the commencement of work, suspension of work, if for a period of more than one week, resumption of work, and its completion.

(j) That if the structure or work herein authorized is not completed on or before ~~the expiration of~~ () day of ~~the month of~~, 1911, this permit, if not previously revoked or specifically extended, shall cease and be null and void.

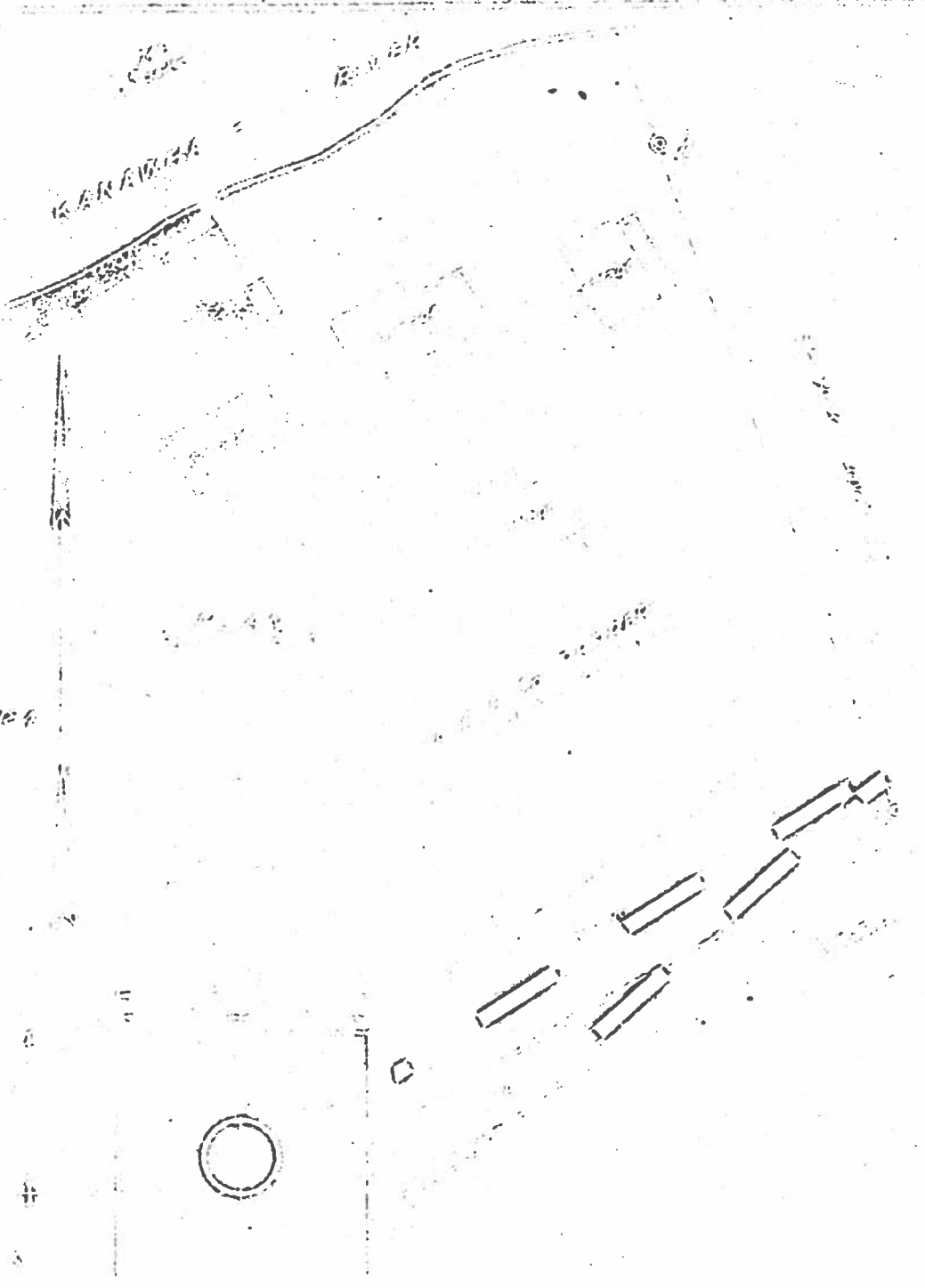
By authority of the Secretary of War:

WAR DEPARTMENT
O. C. of E.
Form No. 56
Revised Jan. 17, 1910

10-12165

U. S. GOVERNMENT PRINTING OFFICE

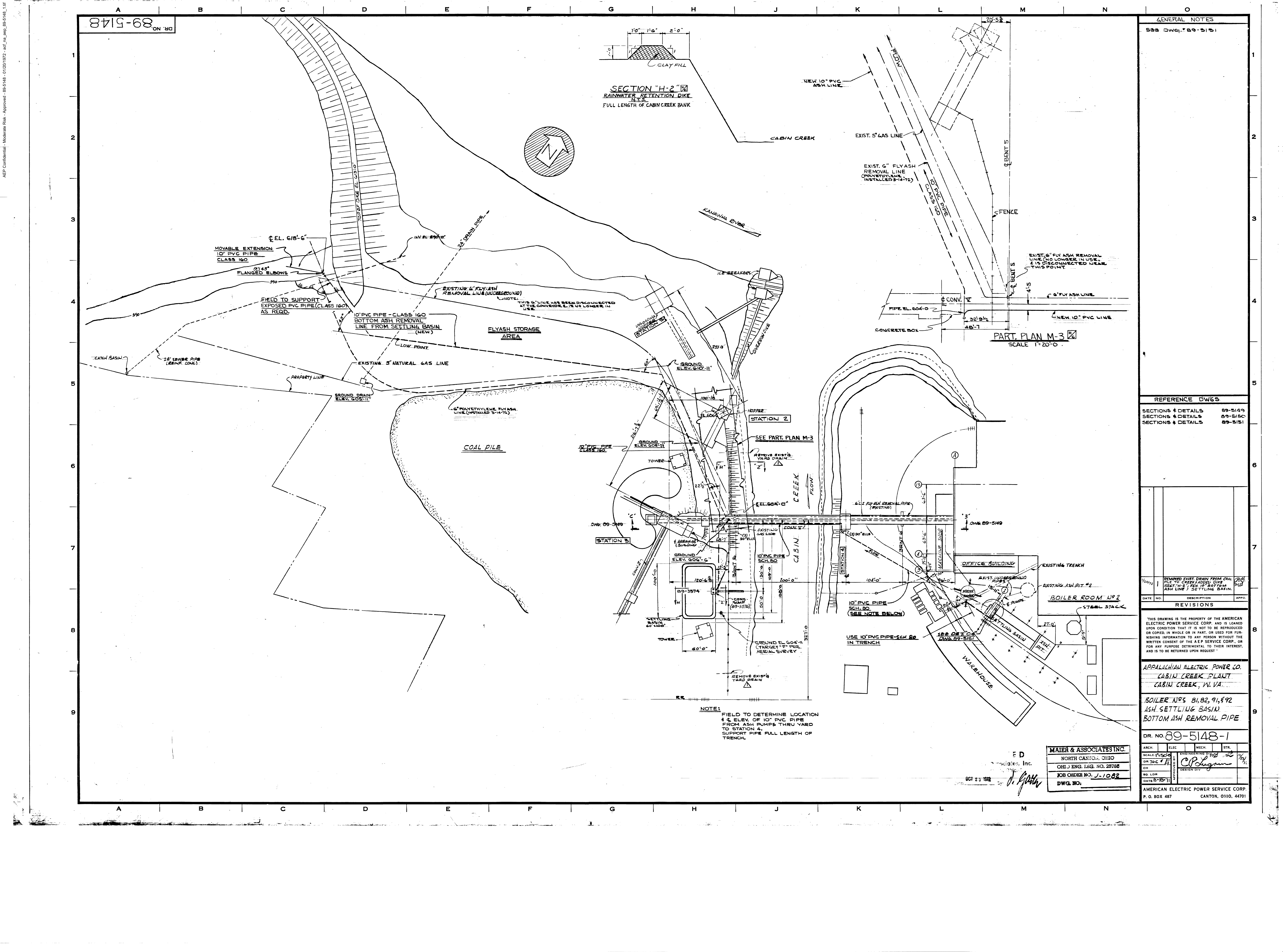

Colonel, Corps of Engineers
Division Engineer



Note
Height 6500 feet 6100 ft



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... ..
... ..
... ..
... ..
... ..



DR. NO. 89-5148

SECTION "H-2" 1/4
RAINWATER RETENTION DIKE
FULL LENGTH OF CABIN CREEK BANK

PART PLAN M-3 3/4
SCALE 1"=20'-0"

GENERAL NOTES
SEE DWG. 89-5151

REFERENCE DWGS		
SECTIONS & DETAILS	89-5149	
SECTIONS & DETAILS	89-5150	
SECTIONS & DETAILS	89-5151	

REVISIONS		
DATE	DESCRIPTION	APP'D.
1/24/72	REMOVED EXIST. DRAIN FROM COAL PILE TO CREEK ADDED ONE 2" X 1/2" X 1/2" FLY ASH LINE 1" SETTLING BASIN.	WCB

"THIS DRAWING IS THE PROPERTY OF THE AMERICAN ELECTRIC POWER SERVICE CORP. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE AEP SERVICE CORP. OR FOR ANY PURPOSE DETRIMENTAL TO THEIR INTEREST, AND IS TO BE RETURNED UPON REQUEST."

APPALACHIAN ELECTRIC POWER CO.
CABIN CREEK PLANT
CABIN CREEK, W. VA.

BOILER NOS. 81, 82, 91, & 92
ASH SETTLING BASIN
BOTTOM ASH REMOVAL PIPE

DR. NO. 89-5148-1

MAIER & ASSOCIATES INC.			
NORTH CANTON, OHIO			
OHIO ENG. REG. NO. 28788			
JOB ORDER NO. J-1082			
DWG. NO.			

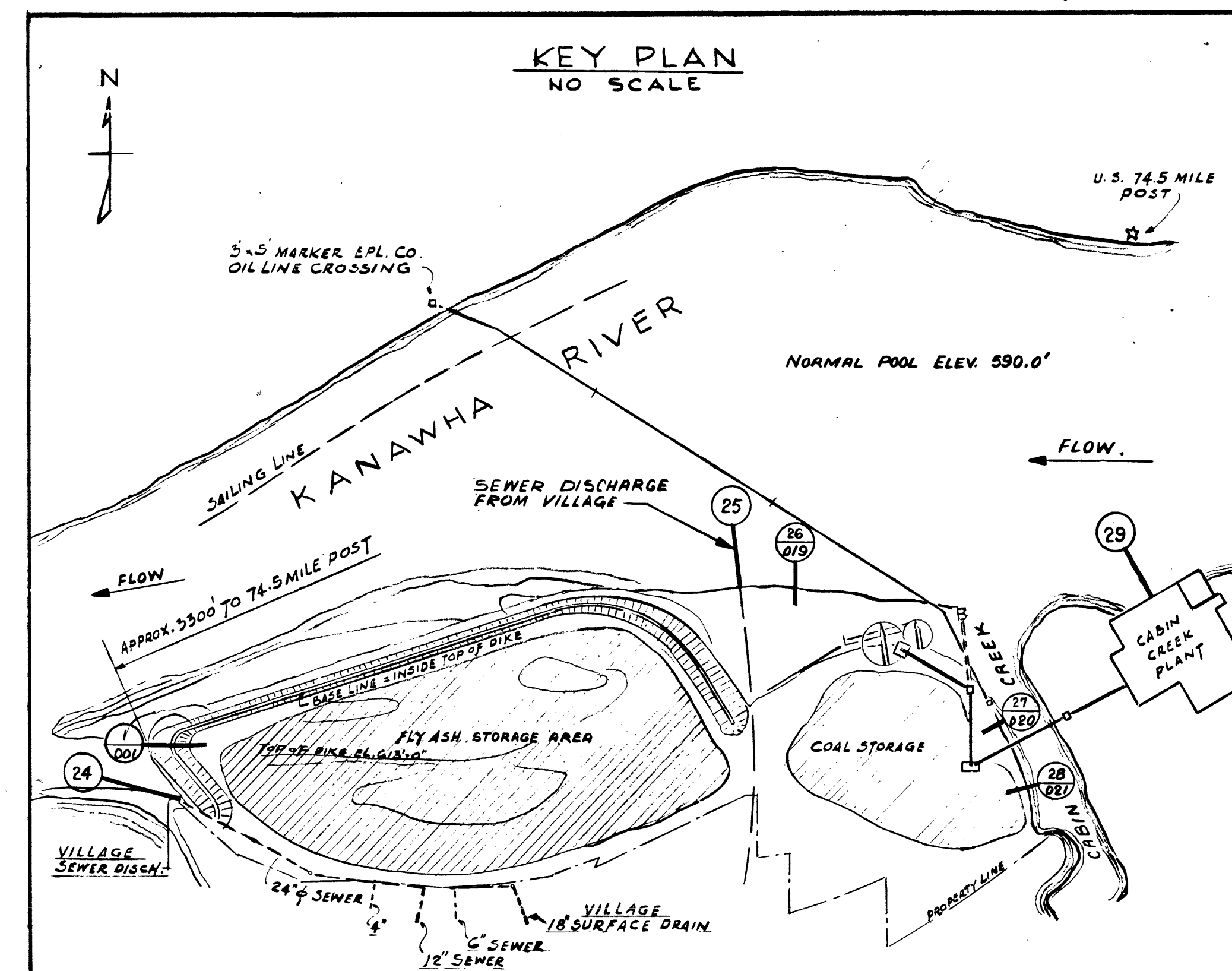
ED

OCT 23 1972

AMERICAN ELECTRIC POWER SERVICE CORP.
P. O. BOX 487 CANTON, OHIO, 44701

SCHEDULE OF RIVER OUTFALLS

OUTFALL NO.	SERVICE	SIZE	CONSTRUCTION	INVERT ELEVATION AT DISCHARGE	LOCATION	REMARKS
1	FLY ASH STORAGE AREA OVERFLOW	24"	CONCRETE PIPE	590.0'	SEE THIS DWG. H/3	INTERMITTENT FLOW NEAR SKIMMER FOR SOLIDS RETENTION AT OVERFLOW
2	STORM DRAIN & SANITARY DRAIN	30"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. D/3	UNCONTAMINATED STORM WATER & TREATED SANITARY WASTES
3 & 3A	STORM DRAINS	8"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. D/3	UNCONTAMINATED STORM WATER (2 PIPES)
4	STORM DRAIN	20"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. D/3	UNCONTAMINATED STORM WATER
5	STORM DRAIN & SANITARY DRAIN	24"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. D/8	UNCONTAMINATED STORM WATER & TREATED SANITARY WASTES
6	STORM DRAIN, FILTER BACKWASH DRAIN & BAKER ROOM DRAIN	20"	TILE PIPE	591.16'	SEE THIS DWG. D/7	UNCONTAMINATED STORM WATER & INTERMITTENT DISCHARGE OF PROCESS WASTES FROM FILTERS
7	BOTTOM ASH PIT OVERFLOW	30"	TILE PIPE	595.0'	SEE THIS DWG. D/4	NEAR SKIMMER FOR SOLIDS RETENTION AT OVERFLOW
8	STORM DRAIN, SANITARY DRAIN, BAKER BUILDING DISCHARGE	24"	TILE PIPE	598.0'	SEE THIS DWG. F/5	UNCONTAMINATED STORM WATER, TREATED SANITARY WASTES, UNTREATED PROCESS WASTES
9A, 9B, 9C, 9D, 9E	STORM DRAINS	4"	IRON PIPE	ABOVE 590.0'	SEE THIS DWG. G/4, H/4	UNCONTAMINATED STORM WATER (5 PIPES)
10	ALTERNATE EMERGENCY DRAIN FROM EVAPORATOR	6"	STEEL PIPE	590.0'	SEE THIS DWG. G/5 300' WEST M.P. 74.5	EMERGENCY PROCESS DRAIN UNTREATED PROCESS WASTES
11	CIRCULATING WATER DISCHARGE	54"	IRON PIPE	576.92'	SEE THIS DWG. G/5 330' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #9
11A	CIRCULATING WATER DISCHARGE	54"	IRON PIPE	576.92'	SEE THIS DWG. G/5 300' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #5
12	EMERGENCY SUMP DRAIN	14"	STEEL PIPE	596.0'	SEE THIS DWG. G/5 290' WEST M.P. 74.5	UNCONTAMINATED TURBINE ROOM FLOOR DRAINS
13	CIRCULATING WATER DISCHARGE	54"	IRON PIPE	576.92'	SEE THIS DWG. G/5 280' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #8
13A	CIRCULATING WATER DISCHARGE	54"	IRON PIPE	576.92'	SEE THIS DWG. G/5 250' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #8
14	TURBINE ROOM SUMP PUMP DISCHARGE	8"	STEEL PIPE	587.67'	SEE THIS DWG. G/5 270' WEST M.P. 74.5	INTERMITTENT DISCHARGE UNTREATED PROCESS WASTES
14A	TURBINE ROOM SUMP PUMP DISCHARGE	8"	STEEL PIPE	580.0'	SEE THIS DWG. H/5 100' WEST M.P. 74.5	INTERMITTENT DISCHARGE UNTREATED PROCESS WASTES
15	CIRCULATING WATER DISCHARGE	48"	IRON PIPE	566.67'	SEE THIS DWG. H/5 190' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #6 INACTIVE - COLD RESERVE
16	CIRCULATING WATER DISCHARGE	36"	IRON PIPE	566.67'	SEE THIS DWG. H/5 175' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #5 INACTIVE - COLD RESERVE
17	TURBINE ROOM SUMP DISCHARGE	10"	STEEL PIPE	600.0'	SEE THIS DWG. H/5 150' WEST M.P. 74.5	INACTIVE - NO FLOW #3.5.4 TURBINE DEACTIVATED
18	CIRCULATING WATER DISCHARGE	42"	STEEL PIPE	574.92'	SEE THIS DWG. H/5 145' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #4 INACTIVE - COLD RESERVE
19	CIRCULATING WATER DISCHARGE	42"	STEEL PIPE	574.92'	SEE THIS DWG. H/5 140' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #3 INACTIVE - COLD RESERVE
20	CIRCULATING WATER INTAKE SCREEN WASH WATER TROUGH	20"	STEEL TROUGH	ABOVE 590.0'	SEE THIS DWG. H/5 100' WEST M.P. 74.5	THE RETURN TO THE RIVER OF RIVER TRASH WASHED OFF THE INTAKE SCREENS
21	CIRCULATING WATER DISCHARGE	6"	STEEL PIPE	592.0'	SEE THIS DWG. J/6 30' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER FROM TRANSFORMERS
22	STORM DRAIN	18"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. M/7 500' EAST M.P. 74.5	UNCONTAMINATED STORM WATER
23	STORM DRAIN & SANITARY DRAIN	10"	TILE PIPE	ABOVE 590.0'	775' EAST M.P. 74.5	UNCONTAMINATED STORM WATER & TREATED SANITARY WASTES
24	STORM DRAIN & SANITARY DRAIN	24"	CONCRETE PIPE	590.3'	3300' WEST M.P. 74.5	UNCONTAMINATED STORM WATER & SANITARY WASTES FROM VILLAGE OF CABIN CREEK
25	STORM DRAIN & SANITARY DRAIN	24"	CONCRETE PIPE	590.3'	1600' WEST M.P. 74.5	UNCONTAMINATED STORM WATER & SANITARY WASTES FROM VILLAGE OF CABIN CREEK
26	STORM DRAIN FROM COAL PILE	24"	CORRUGATED STEEL PIPE	603.0'	1500' WEST M.P. 74.5	STORM WATER RUNOFF FROM COAL STORAGE AREA
27	STORM DRAIN FROM COAL PILE	24"	OPEN CONCRETE TROUGH	595.0'	800' WEST M.P. 74.5	STORM WATER RUNOFF FROM COAL STORAGE AREA
28	STORM DRAIN FROM COAL PILE	24"	OPEN CONCRETE TROUGH	595.0'	800' WEST M.P. 74.5	STORM WATER RUNOFF FROM COAL STORAGE AREA
29	FLOOR DRAINS & SANITARY DRAIN	6"	STEEL PIPE	ABOVE 590.0'	230' WEST M.P. 74.5	UNCONTAMINATED FLOOR DRAINS & SANITARY WASTES FROM VILLAGE OF CABIN CREEK



NORMAL POOL ELEV. 590.0'

KANAWHA RIVER

COAL STORAGE AREA

CABIN CREEK

COAL CONVEYOR

1500' BOILERS

150' BOILERS

250' BOILERS

44 KV YARD

PARKING AREA

APT. HOUSE

OIL STORAGE

CHARLESTON WEST VIRGINIA STATE HIGHWAY NO. 61 MONTGOMERY

1	ADDED: ARMY CORPS OF ENGINEERS DISCHARGE SERIAL NO. FOR OUTFALLS H/1, H/2, H/3, H/4, H/5, H/6, H/7, H/8, H/9, H/10, H/11, H/12, H/13, H/14, H/15, H/16, H/17, H/18, H/19, H/20, H/21, H/22, H/23, H/24, H/25, H/26, H/27, H/28, H/29, H/30, H/31, H/32, H/33, H/34, H/35, H/36, H/37, H/38, H/39, H/40, H/41, H/42, H/43, H/44, H/45, H/46, H/47, H/48, H/49, H/50, H/51, H/52, H/53, H/54, H/55, H/56, H/57, H/58, H/59, H/60, H/61, H/62, H/63, H/64, H/65, H/66, H/67, H/68, H/69, H/70, H/71, H/72, H/73, H/74, H/75, H/76, H/77, H/78, H/79, H/80, H/81, H/82, H/83, H/84, H/85, H/86, H/87, H/88, H/89, H/90, H/91, H/92, H/93, H/94, H/95, H/96, H/97, H/98, H/99, H/100, H/101, H/102, H/103, H/104, H/105, H/106, H/107, H/108, H/109, H/110, H/111, H/112, H/113, H/114, H/115, H/116, H/117, H/118, H/119, H/120, H/121, H/122, H/123, H/124, H/125, H/126, H/127, H/128, H/129, H/130, H/131, H/132, H/133, H/134, H/135, H/136, H/137, H/138, H/139, H/140, H/141, H/142, H/143, H/144, H/145, H/146, H/147, H/148, H/149, H/150, H/151, H/152, H/153, H/154, H/155, H/156, 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1933
Surface of water elevation 579.2
Normal Pool Elevation 577.9

View upstream along left bank of Kanawha River from
as shown at the mouth of Cabin Creek



NOTES:
ALL ELEVATIONS ON U.S.G.S. SANDY MOUNT DATUM.
CONTOUR TAKEN FROM ORIGINAL BENCH MARKS IN
U.S. ENGINEER OFFICE, CHARLESTON, W. VA. SURVEY MADE
OCT. 1931 - FEB. 1932.
SURVEY LINE MARKED "V" RUN BY U.S. ARMY ENGINEERS
SURVEY LINE MARKED "T" RUN BY C. B. TAYLOR CO. ENG.
SURVEY LINE MARKED "D" PLOTTED FROM DEED

APPENDIX B

Site Reconnaissance Photo Log



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 1: Road adjacent to the ash pond

Media 2: Drainage pipe from the former power plant area

Latitude: 38.1979
Longitude: -81.4823
Bearing: W

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1982
Longitude: -81.4822
Bearing: SE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 3: Potential drainage outlet pipe at the downstream toe of the perimeter dike



Media 4: Drainage way near perimeter dike

Latitude: 38.1982
Longitude: -81.4823
Bearing: SW

Weather: Patchy light rain with
thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1984
Longitude: -81.4826
Bearing: NW

Weather: Patchy light rain with
thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 5: Floodplain area located to the east of the ash pond near the perimeter dike toe of slope

Media 6: Floodplain area located to the east of the ash pond near the perimeter dike toe of slope

Latitude: 38.1986
Longitude: -81.4828
Bearing: NW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1987
Longitude: -81.4829
Bearing: SE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

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Report Date: 2025-12-08

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Media 7: Perimeter dike at the northeast corner of the ash pond

Media 8: Erosion control measures on perimeter dike

Latitude: 38.1988
Longitude: -81.4831
Bearing: SW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1988
Longitude: -81.4832
Bearing: SW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 9: Erosion control measures on perimeter dike

Media 10: Access road on the north side of the ash pond (top of ash pond)

Latitude: 38.1987
Longitude: -81.4833
Bearing: W

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1987
Longitude: -81.4834
Bearing: NW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 11: Top of ash pond looking from north to south



Media 12: Top of ash pond looking southwest

Latitude: 38.1986
Longitude: -81.4835
Bearing: S

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1986
Longitude: -81.4844
Bearing: SW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

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Media 13: Access road along the north side of the ash pond (top of ash pond)



Media 14: Access road along north side of ash pond (top of ash pond)

Latitude: 38.1987
Longitude: -81.4845
Bearing: W

Weather: Patchy light rain with
thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1986
Longitude: -81.4850
Bearing: W

Weather: Patchy light rain with
thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 15: Looking north towards the Kanawha River down the perimeter dike (heavy vegetation)



Media 16: Top of ash pond looking from north to south

Latitude: 38.1986
Longitude: -81.4855
Bearing: N

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1984
Longitude: -81.4859
Bearing: S

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 17: Looking north towards the Kanawha River down the perimeter dike (heavy vegetation)

Latitude: 38.1985
Longitude: -81.4862
Bearing: NW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Media 18: Looking north towards the Kanawha River down the perimeter dike (heavy vegetation)

Latitude: 38.1983
Longitude: -81.4867
Bearing: NW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 19: Access road along the north side of the ash pond (top of ash pond)



Media 20: Top of ash pond looking from north to south

Latitude: 38.1982
Longitude: -81.4868
Bearing: W

Weather: Patchy light rain with
thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1981
Longitude: -81.4872
Bearing: SE

Weather: Patchy light rain with
thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

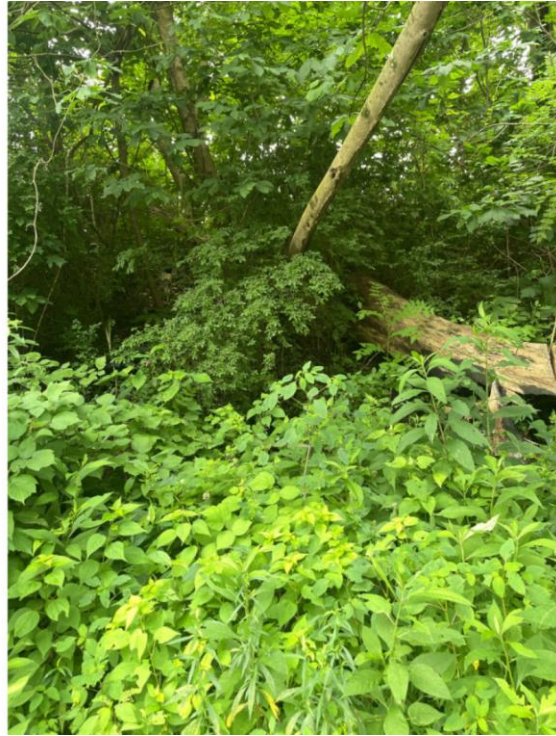
Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 21: Access road along the north side of the ash pond (top of ash pond)



Media 22: Looking up the perimeter dike slope from the Kanawha River (heavy vegetation)

Latitude: 38.1980
Longitude: -81.4876
Bearing: W

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1983
Longitude: -81.4874
Bearing: S

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 23: Perimeter dike at the northwest end of the ash pond



Media 24: Heavy vegetation is shown on the perimeter dike at the northwest end of the ash pond adjacent to the Kanawha River

Latitude: 38.1982
Longitude: -81.4877
Bearing: S

Weather: Patchy light rain with
thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1982
Longitude: -81.4877
Bearing: S

Weather: Patchy light rain with
thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

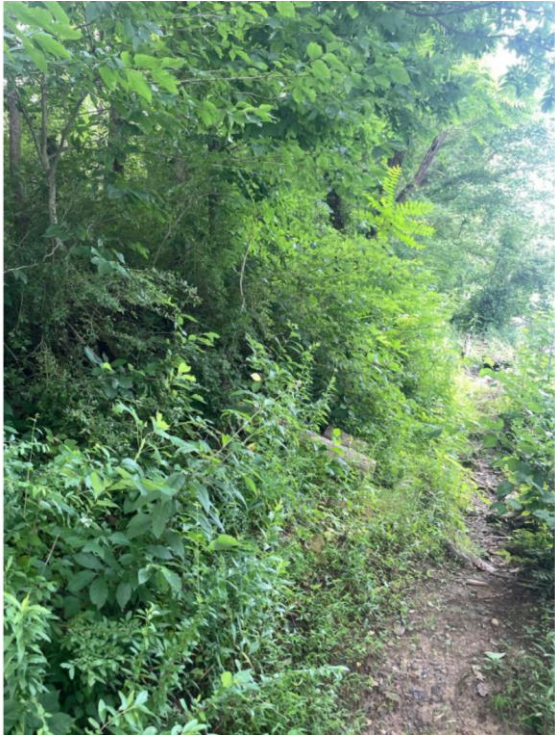
Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 25: Heavy vegetation shown on the perimeter dike at the northwest end of the ash pond adjacent to the Kanawha River

Latitude: 38.1982
Longitude: -81.4877
Bearing: SW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Media 26: Floodplain area shown to the northwest of the ash pond

Latitude: 38.1979
Longitude: -81.4886
Bearing: W

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 27: Corrugated metal storm water pipe by the concrete outlet pipe



Media 28: Concrete spillway outlet pipe

Latitude: 38.1979
Longitude: -81.4884
Bearing: E

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1979
Longitude: -81.4884
Bearing: W

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 29: Corrugated metal storm drain outlet

Latitude: 38.1979
Longitude: -81.4884
Bearing: SW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Media 30: View of perimeter dike adjacent to the Kanawha River

Latitude: 38.1979
Longitude: -81.4884
Bearing: NE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

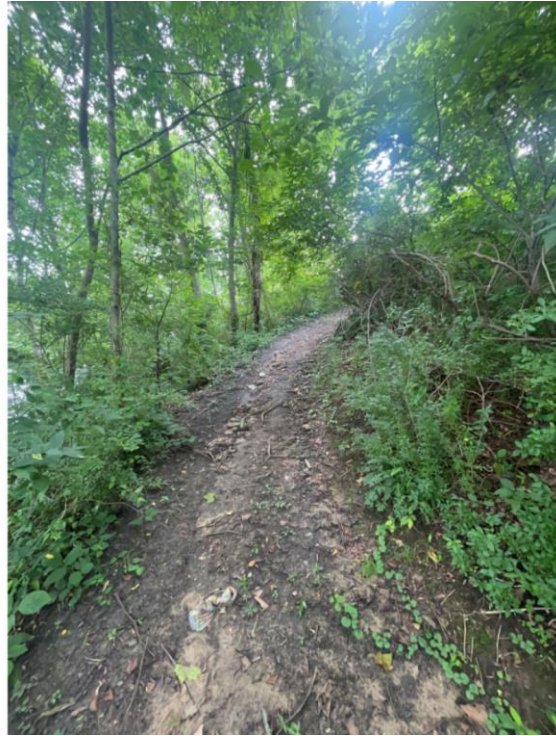
Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 31: Floodplain area adjacent to the ash pond (northwest end of ash pond)

Media 32: ATV trail on perimeter dike at the northwest end of the ash pond

Latitude: 38.1980
Longitude: -81.4882
Bearing: NW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1980
Longitude: -81.4882
Bearing: E

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 33: Perimeter dike at the northwest end of the ash pond



Media 34: Remnants of old concrete outlet structure used when the ash pond was active

Latitude: 38.1979
Longitude: -81.4880
Bearing: NW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1979
Longitude: -81.4878
Bearing: NE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 35: Remnants of an old concrete outlet structure used when the ash pond was active



Media 36: Cleared area on the top of the ash pond with in-place erosion control measures (recently cleared)

Latitude: 38.1979
Longitude: -81.4878
Bearing: NE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1979
Longitude: -81.4878
Bearing: NW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

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Media 37: Top of ash pond near the northwest corner of the pond

Media 38: Looking west to east on top of the ash pond (area recently cleared)

Latitude: 38.1976
Longitude: -81.4877
Bearing: SW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1976
Longitude: -81.4877
Bearing: NE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 39: Looking northwest across the top of the ash pond towards the Kanawha River

Media 40: Looking northeast across the top of the ash pond

Latitude: 38.1973
Longitude: -81.4872
Bearing: W

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Latitude: 38.1973
Longitude: -81.4872
Bearing: NE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 41: Looking southeast across the top of the ash pond towards the neighborhood to the south

Latitude: 38.1973
 Longitude: -81.4872
 Bearing: SE

Weather: Patchy light rain with thunder
 Date Taken: 07/16/2025
 Taken By: Naveen Kumar Ganji

Tags: NA



Media 42: Top of concrete stormwater manhole. Access point for stormwater drainage pipes that traverse the ash pond

Latitude: 38.1970
 Longitude: -81.4868
 Bearing: S

Weather: Patchy light rain with thunder
 Date Taken: 07/16/2025
 Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 43: Top of concrete stormwater manhole. Access point for stormwater drainage pipes that traverse the ash pond



Media 44: Top of concrete stormwater manhole. Access point for stormwater drainage pipes that traverse the ash pond

Latitude: 38.1970
Longitude: -81.4868
Bearing: SW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1969
Longitude: -81.4869
Bearing: NE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 45: Looking towards the northeast across the top of the ash pond (area recently cleared)

Latitude: 38.1969
Longitude: -81.4867
Bearing: N

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Media 46: Looking east along the top of the perimeter dike south of the ash pond

Latitude: 38.1969
Longitude: -81.4865
Bearing: E

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 47: Looking west along the top of the perimeter dike south of the ash pond

Latitude: 38.1968
Longitude: -81.4858
Bearing: W

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Media 48: Looking west along the top of the perimeter dike south of the ash pond

Latitude: 38.1968
Longitude: -81.4852
Bearing: W

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 49: Looking east along the top of the perimeter dike south of the ash pond



Media 50: Looking south from the top of the perimeter dike, showing manhole location in the adjacent street

Latitude: 38.1969
Longitude: -81.4846
Bearing: E

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1974
Longitude: -81.4831
Bearing: SE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

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Media 51: Splitter dike running through the middle of the ash pond



Media 52: Looking west on the south side of the ash pond

Latitude: 38.1974
Longitude: -81.4830
Bearing: NW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA

Latitude: 38.1975
Longitude: -81.4828
Bearing: NE

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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Media 53: South side of ash pond on top of perimeter dike looking west

Latitude: 38.1974
Longitude: -81.4829
Bearing: SW

Weather: Patchy light rain with thunder
Date Taken: 07/16/2025
Taken By: Naveen Kumar Ganji

Tags: NA



Project Name: AEP Cabin Creek

Project Location: Cabin Creek Ash Pond, Former Cabin Creek Power Plant, Cabin Creek, WV

Client: AEP

Project Code: US0041868.3924

Preparer: Naveen Kumar Ganji

Reviewer: Steven Moeller

Report Date: 2025-12-08

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APPENDIX C

**Cabin Creek Storm Drain
Rehabilitation Documentation**

Cabin Creek Site

File Memo

Storm drain rehabilitation project at the legacy ash pond

Prepared by: Dan Murphy

Date: June 10, 2026

Reviewed by: Jon Webster

Date: June 17, 2026

Contents

Introduction	2
Background.....	2
Summary of Work Performed.....	2
Conclusions.....	3

List of Attachments

Attachment A- Construction Photo Log
Attachment B – As-Built Drawings
Attachment C- Relevant Historical Drawing

Introduction

Appalachian Power Company (AEP) completed rehabilitation of a 24-inch storm drain beneath the former Cabin Creek ash pond to address conditions identified during inspections for compliance with the Coal Combustion Residual (CCR) Rule.

Construction was performed by United Construction Contractors, Inc. (UCCI) and Mobile Power Washing (MPW). Jane Mason served as Project Manager, Dan Murphy, P.E. provided technical support, and Laura Keeney was Construction Coordinator

Background

Site clearing in spring 2025 revealed a 5-foot diameter manhole near the southwestern ash pond boundary. Dye testing confirmed a 24-inch storm drain conveys stormwater from the Village of Chelyan to the Kanawha River. The West Virginia Department of Highways discharges into this system under a joint-use agreement expiring August 31, 2026.

Video pipe inspection in August 2025 was limited by sediment accumulation. During planning for cleaning, a sinkhole was identified and investigated in April 2026, revealing a failure at the transition between concrete pipe (within the pond) and corrugated metal pipe (outside). The pipes are estimated to be roughly 75 years old and there are no records of prior maintenance.

Summary of Work Performed

In May and June 2026, United Construction Contractors Inc. placed approximately 250 linear feet of new corrugated plastic pipe to replace the highly corroded existing corrugated metal pipe. The intent of the project was to replace the pipe in kind, following the existing pipe geometry as close as possible.

Temporary pumps and sandbags were used to take the impacted section of the storm drain out of service. A new 19' deep, 4' diameter precast concrete manhole was installed where the dissimilar materials join to create a soil tight connection and to facilitate future maintenance access. The pipe was bedded and backfilled to 1 foot above the crown of the pipe with $\frac{3}{4}$ " diameter crushed limestone (No. 57). The pipe was placed on a 1% slope to the Kanawha River. A trench box was used to ensure safe excavation due to in part the depths of excavation but also the proximity to the property line. The remainder of the trench was

backfilled to match existing surrounding grade with the excavated material and placed in 1-foot lifts and compacted with a hydraulic vibratory plate compacter attached to the excavator arm. Due to relatively deep tie in elevations and gravity drainage, the final outlet for the storm drainpipe is 2.2 feet below the navigational pool of the Kanawha River (Marmet lock and dam). Therefore, the pipe outlet is underwater and not visible during normal river levels. A riprap revetment was placed to stabilize the final outlet into the Kanawha River.

From June 1 to June 3, Mobile Power Washing (MPW) was mobilized to the site to perform hydro jetting and video pipe inspection. The hydro jetting and inspection was performed on section of the concrete pipe that was not replaced. The hydro jetting work was performed in a manner that prevented the release of any sediments or sediment laden waters. A vacuum truck collected water and sediments from within the new precast concrete manhole. A temporary seal installed in the bottom of the new manhole to isolate the 24" corrugated plastic pipe to prevent any sediment laden water from discharging into the new pipe or to the Kanawha River. The vacuum trucks emptied water/sediments into "Frac" tanks for temporarily collection. The waste generated was characterized and for hauled offsite for final disposal.

Upon cleaning the inside of the pipe, a robotic camera inspection was performed. The video pipe inspection revealed that the sediments have been removed from the pipe. There were no major structural defects observed by the camera inspection, including cracks, offset joints or excessive deformation. The video inspection identified a small diameter (~4") former sanitary sewer tap location exists approximately 190 feet upstream of the existing concrete manhole. The tie in location is near the property line between Appalachian Power Company and 100 Douglas Court. It is known that the Chelyan Public Service District installed sanitary sewer collection system in the limits of Chelyan in the 1970s it is assumed that this sewer tap has been abandoned in place and no longer functions.

The video pipe inspection was able to reach the closed lid manhole near the intersection of Grady Street and Appalachian Street where the WVDOH Storm drain discharges into Appalachian Power Company pipe.

Conclusions

Over the course of investigations and assessments required by the legacy CCR rule, AEP identified the need for rehabilitation of a storm drain under the Cabin Creek Ash Pond. The work was executed without incident and addresses immediate concerns with the functionality of the drainage system.

A video pipe inspection occurred after completing the hydro jetting. The results of the video pipe inspection show that the storm drainpipe is unobstructed and in a generally good

functional condition. The video pipe inspection revealed that the storm drainpipe is free of structural defects, cracks, misaligned joints or other deficiencies and is functioning as designed.

Although the storm drainpipe has been rehabilitated, the presence of this pipe in the foundation of the former ash pond could require additional measures during the closure of the Cabin Creek Ash Pond.

Attachment A- Construction Photo Log



Photograph 1.
UCCI excavating for installation
of new concrete manhole.



Photograph 2.
UCCI setting and backfilling
around new precast concrete
manhole.



Photograph 3.
UCCI excavating to begin
installing new corrugated plastic
pipe, pumps used to divert water
from work area.



Photograph 4.
UCCI continues to lay new
corrugated plastic drain pipe.



Photograph 5.
View showing the final piece of corrugated plastic pipe before excavating river bank and stabilizing with riprap.



Photograph 6.
View showing the stabilized outlet area for the new storm drainpipe.

Note the pipe outlet is not visible, but its location is approximated by the red arrow.



Photograph 7.
View of hydro jetting being performed and accessed via the new precast concrete manhole.



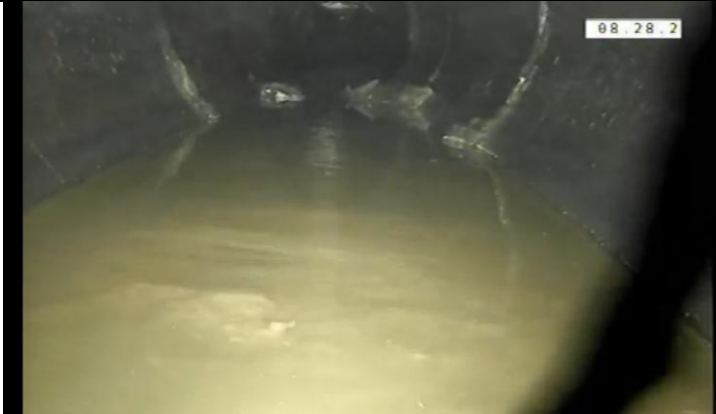
Photograph 8.
Showing the backfilled trench
with the red line approximating
the replaced storm drain
alignment.



Photograph 9.
Screenshot taken from video
pipe inspection, showing
condition of the storm drainpipe
before hydro jetting.



Photograph 10.
Screenshot taken from video
pipe inspection showing the
condition of the storm drainpipe
after cleaning.



Photograph 11.
Screenshot taken from video
pipe inspection, showing
condition of the storm drainpipe
before hydro jetting.



Photograph 12.
Screenshot taken from video
pipe inspection showing the
condition of the storm drainpipe
after cleaning.



Photograph 13. View of the 4"
diameter sanitary sewer tie into
the 24" concrete pipe.

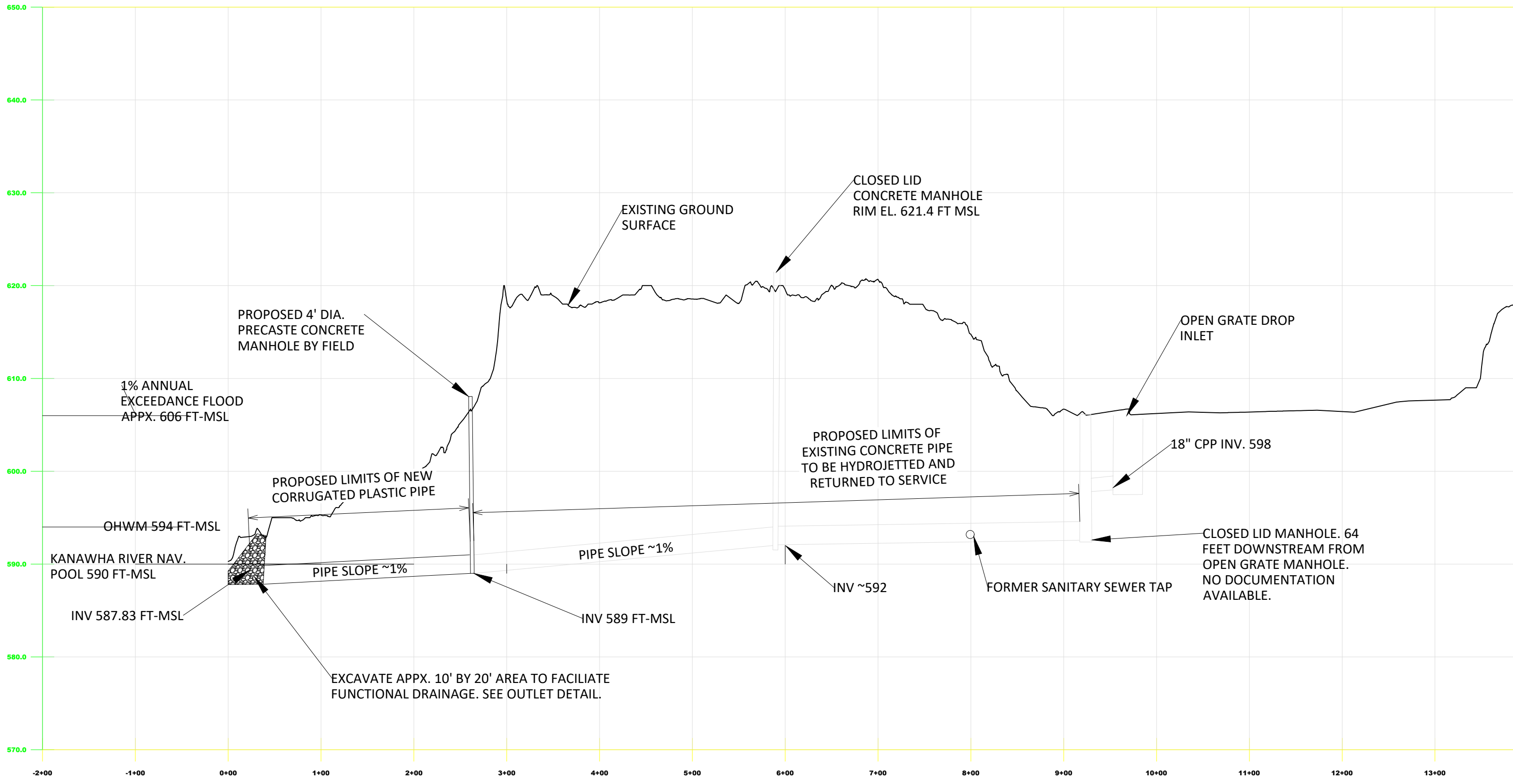


Photograph 14. View inside the closed lid manhole near the intersection of Grady Steet and Appalachian Street.

This is the location where the 18" CPP storm drain belonging to the WVDOH discharges into ApCo's pipe.

Attachment B- As Built Drawings

24" STORM DRAIN PROFILE



HORIZONTAL SCALE: 1" = 100 FT.
VERTICAL SCALE: 1" = 10 FT.

1. TOPOGRAPHIC CONTOURS AND AERIAL PHOTOGRAPH PROVIDED BY AGE ENGINEERING, JULY 2025.
2. FEMA FLOODPLAIN AND FLOODWAY AS SHOWN WERE DOWNLOADED FROM THE NATIONAL FLOOD HAZARD LAYER WEBSITE.
3. ORDINARY HIGH WATER MARK ASSIGNED FROM US ARMY CORPS NAVIGATION CHARTS AS EL. 594 FT-MSL.
4. EXCAVATE AND BACKFILL PIPE SHALL COMPLETED BY END OF EACH SHIFT. NO TEMPORARY STOCKPILES OR OPEN EXCAVATIONS WILL BE ALLOWED.
5. THERE WILL BE NO NET FILL WITHIN THE 1% ANNUAL EXCEEDANCE FLOODPLAIN.

20' X 10' RIPRAP STABILIZATION AT OUTLET. EXCAVATE ONLY AS REQUIRED TO FACILIATE FUNCTIONAL DRAINAGE FROM WITHIN THE PROPOSED PIPE.

AEP PROPERTY LINE

LIMITS OF FLOODWAY

ORDINARY HIGHWATER MARK EL 594 FT-MSL

1% ANNUAL EXCEEDANCE FLOOD LIMITS

NEW 4 FT. DIAMETER PRECAST CONCRETE MANHOLE
TOP EL. 608 FT-MSL
INVERT IN: 24" CONCRETE PIPE 589 FT-MSL
INVERT OUT: 24" CORRUGATED PLASTIC PIPE 589 FT-MSL

COORDINATE POINT TABLE			
DESCRIPTION	NORTHING (FT)	EASTING (FT)	ELEVATION (FT-MSL)
CONTROL POINT #1 REBAR/CAP	436348.363	1830448.735	608.91
NEW 4-FT DIA. CONCRETE MANHOLE	436376.38	1828321.09	TOP RIM 608 INVERT 589
NEW 24" CPP OUTLET	436552.13	1828165.33	INVERT 587.83
WEST VIRGINIA SOUTH STATE PLANE COORDINATE SYSTEM. NOV088/ NAD 83			

LIMITS OF EXISTING CONCRETE PIPE TO BE HYDROJETTED AND REMAIN IN SERVICE

MW-2508 B

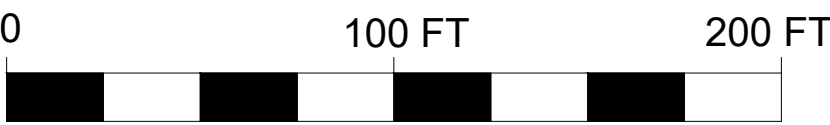
MW-2508 S

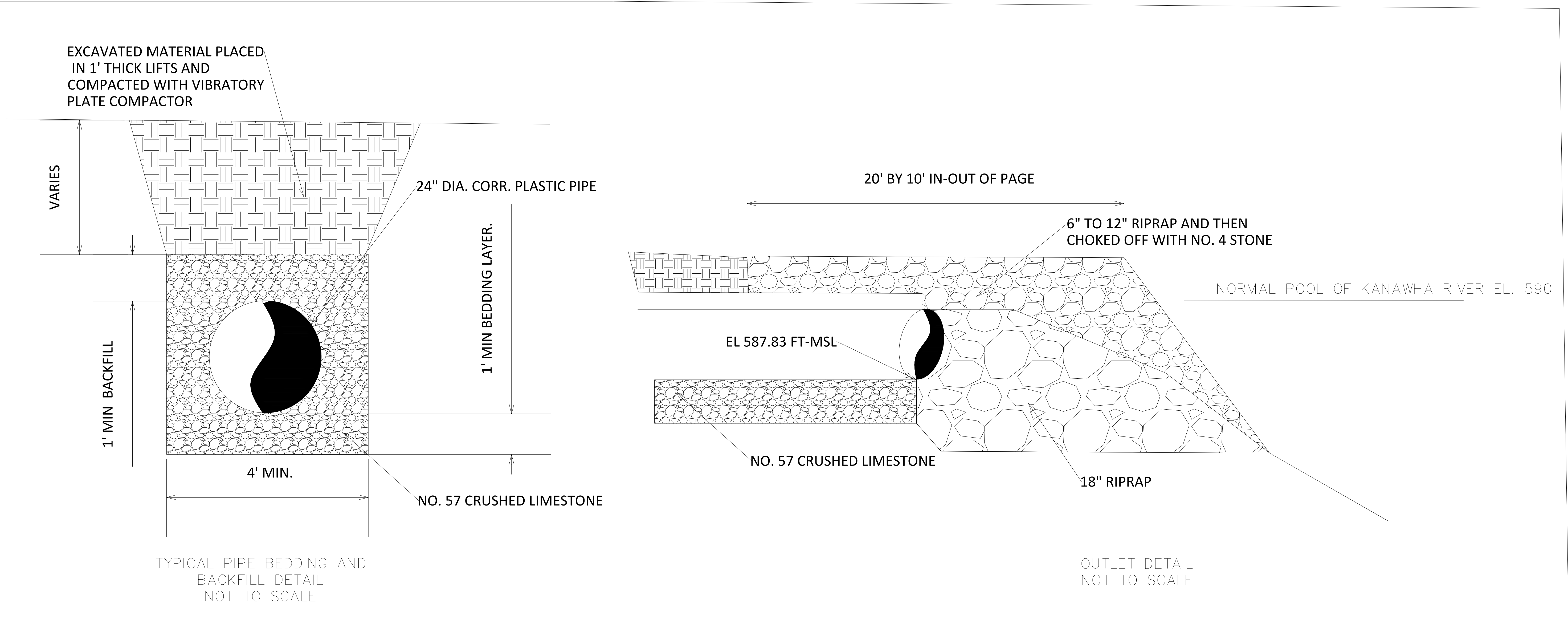
EX. CONCRETE MANHOLE TOP OF LID EL. 621.4

ABANDONED SANITARY TAP

EXISTING ACCESS ROAD

ABANDONED IN PLACE 6" GAS LINE

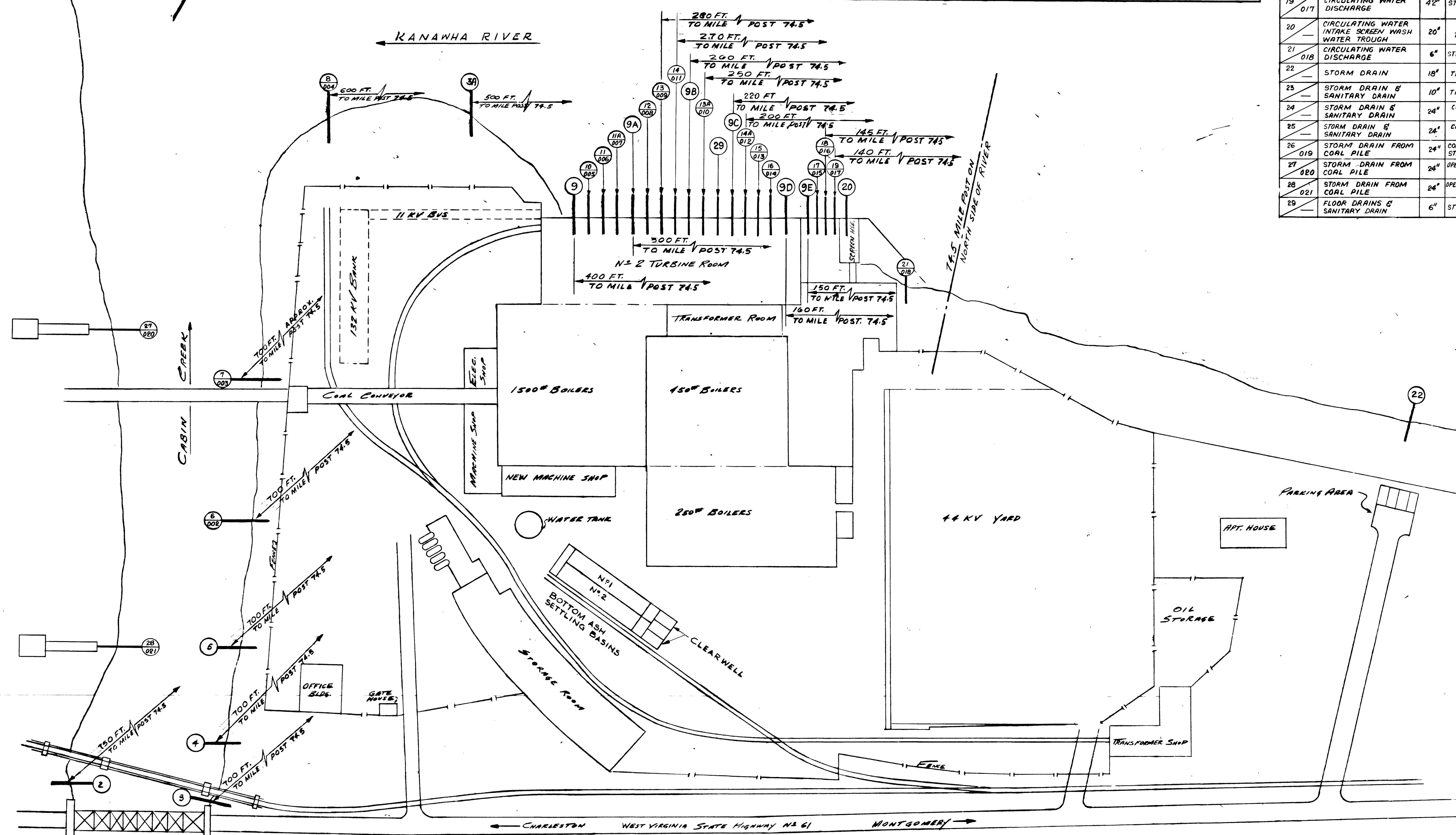
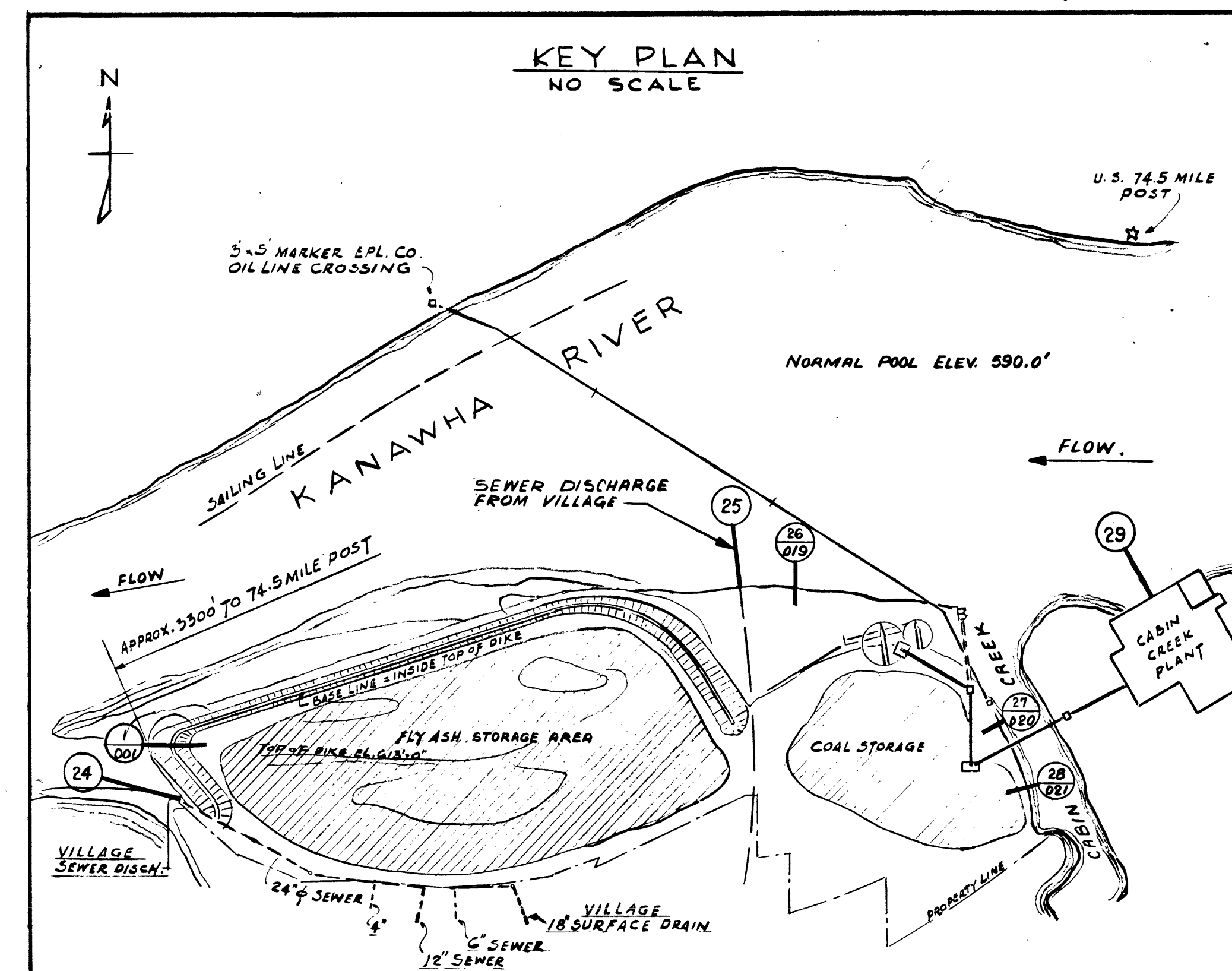




Attachment C - Relevant Historical Drawing

SCHEDULE OF RIVER OUTFALLS

OUTFALL NO.	SERVICE	SIZE	CONSTRUCTION	INVERT ELEVATION AT DISCHARGE	LOCATION	REMARKS
1	FLY ASH STORAGE AREA OVERFLOW	24"	CONCRETE PIPE	590.0'	SEE THIS DWG. H/3	INTERMITTENT FLOW NEAR SKIMMER FOR SOLIDS RETENTION AT OVERFLOW
2	STORM DRAIN & SANITARY DRAIN	30"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. C/3	UNCONTAMINATED STORM WATER & TREATED SANITARY WASTES
3 & 3A	STORM DRAINS	8"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. D/3	UNCONTAMINATED STORM WATER (2 PIPES)
4	STORM DRAIN	20"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. D/3	UNCONTAMINATED STORM WATER
5	STORM DRAIN & SANITARY DRAIN	24"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. D/8	UNCONTAMINATED STORM WATER & TREATED SANITARY WASTES
6	STORM DRAIN, FILTER BACKWASH DRAIN & BAKER ROOM DRAIN	20"	TILE PIPE	591.16'	SEE THIS DWG. D/7	UNCONTAMINATED STORM WATER & INTERMITTENT DISCHARGE OF PROCESS WASTES FROM FILTERS
7	BOTTOM ASH PIT OVERFLOW	30"	TILE PIPE	595.0'	SEE THIS DWG. D/4	NEAR SKIMMER FOR SOLIDS RETENTION AT OVERFLOW
8	STORM DRAIN, SANITARY DRAIN, BAKER BUILDING DISCHARGE	24"	TILE PIPE	598.0'	SEE THIS DWG. F/5	UNCONTAMINATED STORM WATER, TREATED SANITARY WASTES, UNTREATED PROCESS WASTES
9A, 9B, 9C, 9D, 9E	STORM DRAINS	4"	IRON PIPE	ABOVE 590.0'	SEE THIS DWG. G/4, H/4	UNCONTAMINATED STORM WATER (5 PIPES)
10	ALTERNATE EMERGENCY DRAIN FROM EVAPORATOR	6"	STEEL PIPE	590.0'	SEE THIS DWG. G/5 300' WEST M.P. 74.5	EMERGENCY PROCESS DRAIN UNTREATED PROCESS WASTES
11	CIRCULATING WATER DISCHARGE	54"	IRON PIPE	576.92'	SEE THIS DWG. G/5 330' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #9
11A	CIRCULATING WATER DISCHARGE	54"	IRON PIPE	576.92'	SEE THIS DWG. G/5 300' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #5
12	EMERGENCY SUMP DRAIN	14"	STEEL PIPE	596.0'	SEE THIS DWG. G/5 290' WEST M.P. 74.5	UNCONTAMINATED TURBINE ROOM FLOOR DRAINS
13	CIRCULATING WATER DISCHARGE	54"	IRON PIPE	576.92'	SEE THIS DWG. G/5 280' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #8
13A	CIRCULATING WATER DISCHARGE	54"	IRON PIPE	576.92'	SEE THIS DWG. G/5 250' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #8
14	TURBINE ROOM SUMP PUMP DISCHARGE	8"	STEEL PIPE	587.67'	SEE THIS DWG. G/5 270' WEST M.P. 74.5	INTERMITTENT DISCHARGE UNTREATED PROCESS WASTES
14A	TURBINE ROOM SUMP PUMP DISCHARGE	8"	STEEL PIPE	580.0'	SEE THIS DWG. H/5 200' WEST M.P. 74.5	INTERMITTENT DISCHARGE UNTREATED PROCESS WASTES
15	CIRCULATING WATER DISCHARGE	48"	IRON PIPE	566.67'	SEE THIS DWG. H/5 190' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #6 INACTIVE - COLD RESERVE
16	CIRCULATING WATER DISCHARGE	36"	IRON PIPE	566.67'	SEE THIS DWG. H/5 175' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #5 INACTIVE - COLD RESERVE
17	TURBINE ROOM SUMP DISCHARGE	10"	STEEL PIPE	600.0'	SEE THIS DWG. H/5 150' WEST M.P. 74.5	INACTIVE - NO FLOW #3.5.4 TURBINE DEACTIVATED
18	CIRCULATING WATER DISCHARGE	42"	STEEL PIPE	574.92'	SEE THIS DWG. H/5 145' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #4 INACTIVE - COLD RESERVE
19	CIRCULATING WATER DISCHARGE	42"	STEEL PIPE	574.92'	SEE THIS DWG. H/5 140' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER CONDENSER #3 INACTIVE - COLD RESERVE
20	CIRCULATING WATER INTAKE SCREEN WASH WATER TROUGH	20"	STEEL TROUGH	ABOVE 590.0'	SEE THIS DWG. H/5 100' WEST M.P. 74.5	THE RETURN TO THE RIVER OF RIVER TRASH WASHED OFF THE INTAKE SCREENS
21	CIRCULATING WATER DISCHARGE	6"	STEEL PIPE	592.0'	SEE THIS DWG. J/6 30' WEST M.P. 74.5	UNCONTAMINATED COOLING WATER FROM TRANSFORMERS
22	STORM DRAIN	18"	TILE PIPE	ABOVE 590.0'	SEE THIS DWG. M/7 500' EAST M.P. 74.5	UNCONTAMINATED STORM WATER
23	STORM DRAIN & SANITARY DRAIN	10"	TILE PIPE	ABOVE 590.0'	775' EAST M.P. 74.5	UNCONTAMINATED STORM WATER & TREATED SANITARY WASTES
24	STORM DRAIN & SANITARY DRAIN	24"	CONCRETE PIPE	590.3'	3300' WEST M.P. 74.5	UNCONTAMINATED STORM WATER & SANITARY WASTES FROM VILLAGE OF CABIN CREEK
25	STORM DRAIN & SANITARY DRAIN	24"	CONCRETE PIPE	590.3'	1600' WEST M.P. 74.5	UNCONTAMINATED STORM WATER & SANITARY WASTES FROM VILLAGE OF CABIN CREEK
26	STORM DRAIN FROM COAL PILE	24"	CORRUGATED STEEL PIPE	603.0'	1500' WEST M.P. 74.5	STORM WATER RUNOFF FROM COAL STORAGE AREA
27	STORM DRAIN FROM COAL PILE	24"	OPEN CONCRETE TROUGH	595.0'	800' WEST M.P. 74.5	STORM WATER RUNOFF FROM COAL STORAGE AREA
28	STORM DRAIN FROM COAL PILE	24"	OPEN CONCRETE TROUGH	595.0'	800' WEST M.P. 74.5	STORM WATER RUNOFF FROM COAL STORAGE AREA
29	FLOOR DRAINS & SANITARY DRAIN	6"	STEEL PIPE	ABOVE 590.0'	230' WEST M.P. 74.5	UNCONTAMINATED FLOOR DRAINS & SANITARY WASTES FROM VILLAGE OF CABIN CREEK



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