

REVISED
JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A Hagood Avenue
Charleston, South Carolina 29403-5107
and
THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Office of Environmental Quality Control
Water Quality Certification and Wetlands Programs Section
2600 Bull Street
Columbia, South Carolina 29201

REGULATORY DIVISION

Refer to: P/N # SAC-2009-00369-5IK

June 15, 2011

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the S.C. Construction in Navigable Waters Permit Program (R. 19-450, et. seq., 1976 S.C. Code of Laws, as amended), an application has been submitted to the Department of the Army and the South Carolina Department of Health and Environmental Control by

LANCASTER COUNTY WATER & SEWER DISTRICT
AND
UNION COUNTY, NORTH CAROLINA
CATAWBA RIVER WATER SUPPLY PROJECT
CATAWBA RIVER WATER TREATMENT PLANT
ATTN.: MR. MIKE BAILES
5107 RIVERSIDE ROAD
VAN WYCK, SOUTH CAROLINA 29744

for a permit to place fill material in wetlands and other waters of the United States in and adjacent to the

CATAWBA RIVER AND AN UNNAMED TRIBUTARY

located at the Catawba River Water Treatment Plant, 5107 Riverside Road, Van Wyck, in Lancaster County, South Carolina (Latitude: 34.8433 Longitude: -80.8624).

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by the Corps and SCDHEC until

30 DAYS FROM THE DATE OF THIS NOTICE

from those interested in the activity and whose interests may be affected by the proposed work.

The applicant has stated that due to the changes made by the Federal Energy Regulatory Commission (FERC) during the relicensing of the Duke Energy Catawba-Wateree Project, Duke Energy can no longer release water based on Catawba River Water Treatment Plant needs, specifically the Catawba River stage 4 drought conditions. As such, the purpose of the proposed work is to construct a new reservoir adjacent to the existing reservoir that provides a safe, reliable, drought resistant supply of drinking water for the customers of

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Lancaster County Water & Sewer District and Union County, NC. The proposed work consists of filling 0.23 acre of waters of the United States comprised of 1,000 linear feet of an unnamed tributary to the Catawba River with approximately 750 cubic yards of material placed below the ordinary high water mark to construct an earthen embankment. The entire embankment will measure approximately 500,000 cubic yards. The embankment will create a 92 acre open water impoundment, which will flood 1.08 acres of waters of the United States, which includes 6,320 linear feet of this unnamed tributary and 0.36 acre of abutting wetlands. The construction of the intake structure and its associated coffer dam in the Catawba River will impact approximately 0.5 acre of river bed. Based on the Charleston District Compensatory Mitigation SOP the applicant has calculated that the proposed work would require 51,374 stream credits and 3.67 wetland credits. As compensatory mitigation to offset the permanent loss of waters of the United States, including wetlands, the applicant reviewed the potential for purchasing all required credits from approved mitigation banks and has indicated that there are not enough stream mitigation credits within the basin to offset the required number of credits to mitigate for the stream impacts and that there are not any wetland mitigation credits available in the basin. The applicant has proposed a compensatory mitigation plan consisting of the purchase of available stream mitigation bank credits with the remainder as Permittee-Responsible Mitigation for both stream and wetland impacts. The specific Permittee-Responsible Mitigation site will be determined at a later date.

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
69A Hagood Avenue
Charleston, South Carolina 29403-5107**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards (Section 401 of the Clean Water Act). The District Engineer will not process this application to a conclusion until such certification is received. This activity may also require evaluation for compliance with the S. C. Construction in Navigable Waters Permit Program. State review, permitting and certification is conducted by the S. C. Department of Health and Environmental Control. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. Persons wishing to comment or object to State certification or the navigable waters permit must submit all comments in writing to the S. C. Department of Health and Environmental Control at the above address within thirty (30) days of the date of this notice.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 1.81 acres of freshwater habitat well inland of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

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The District Engineer has consulted the most recently available information and has determined that the project will have no effect on any Federally endangered, threatened, or proposed species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended).

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

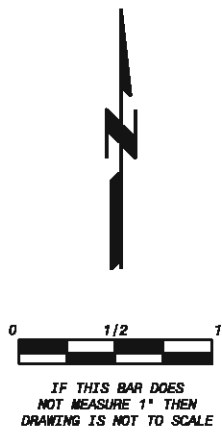
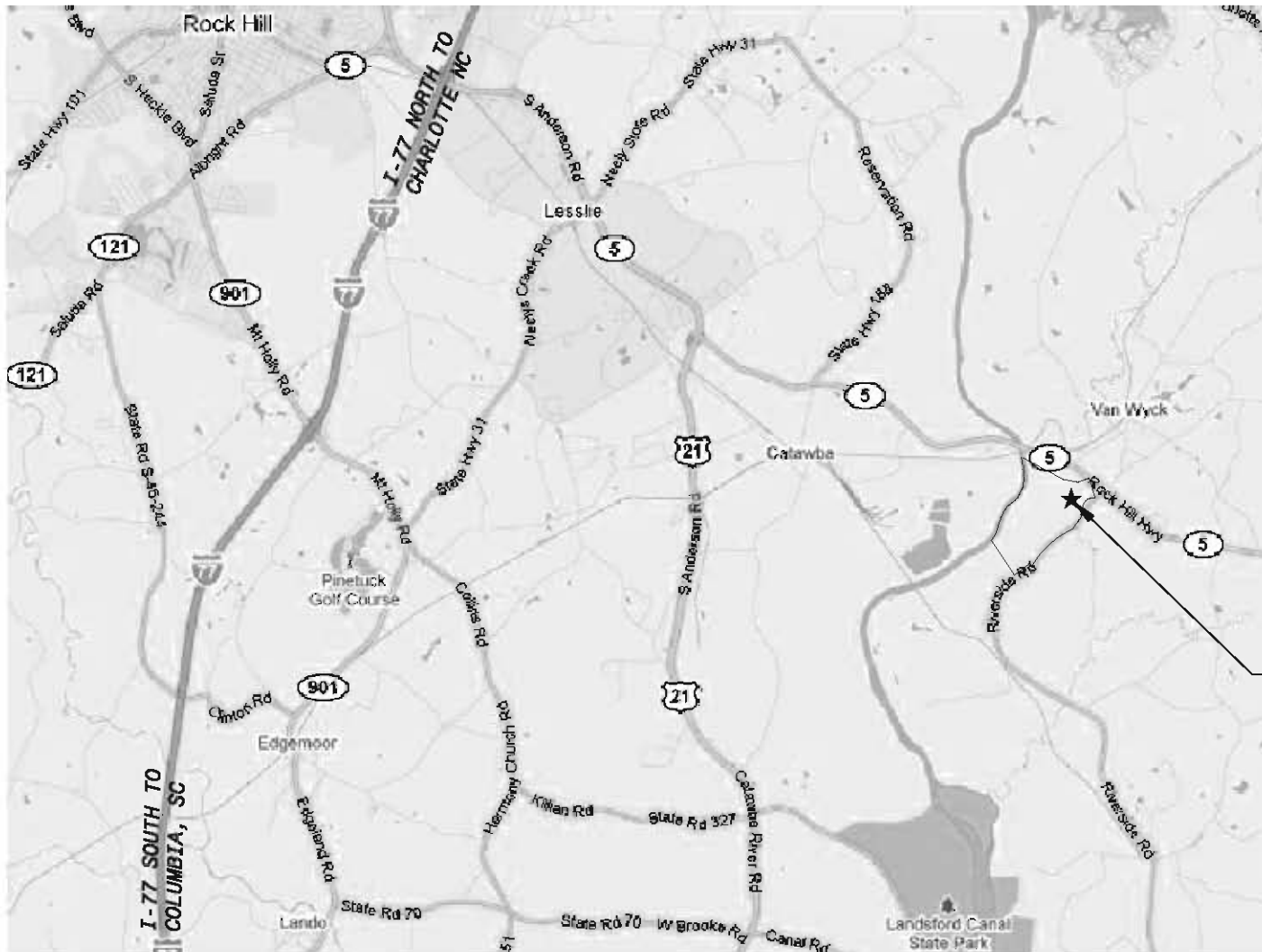
In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this public notice, please contact Leslie Parker at 803-253-3444.



**CATAWBA RIVER WATER TREATMENT PLANT
5107 RIVERSIDE ROAD
VAN WYCK, SC 29744**

AREA MAP
1" = 10,000'

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Black & Veatch
Engineers - Architects



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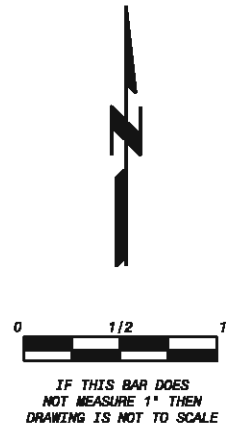
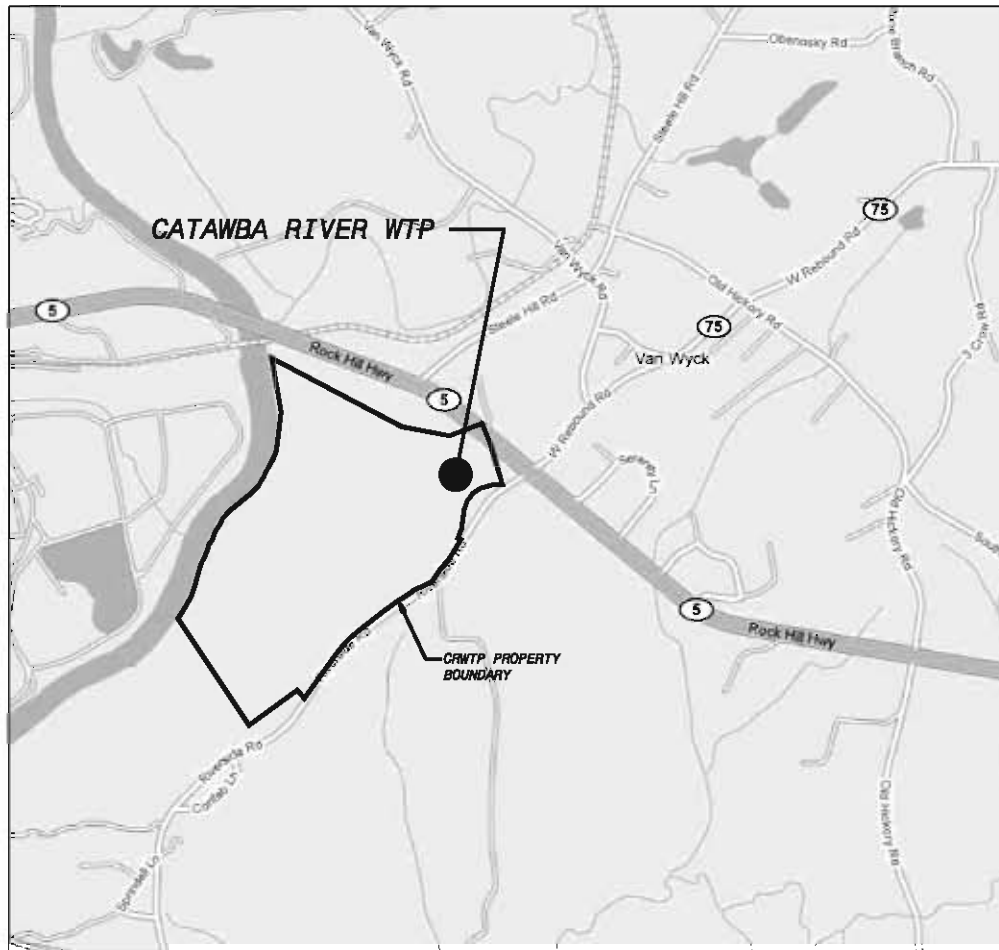
CATAWBA RIVER WATER SUPPLY PROJECT

**CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE A - AREA MAP**

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LOCATION MAP
1" = 5,000'

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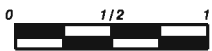
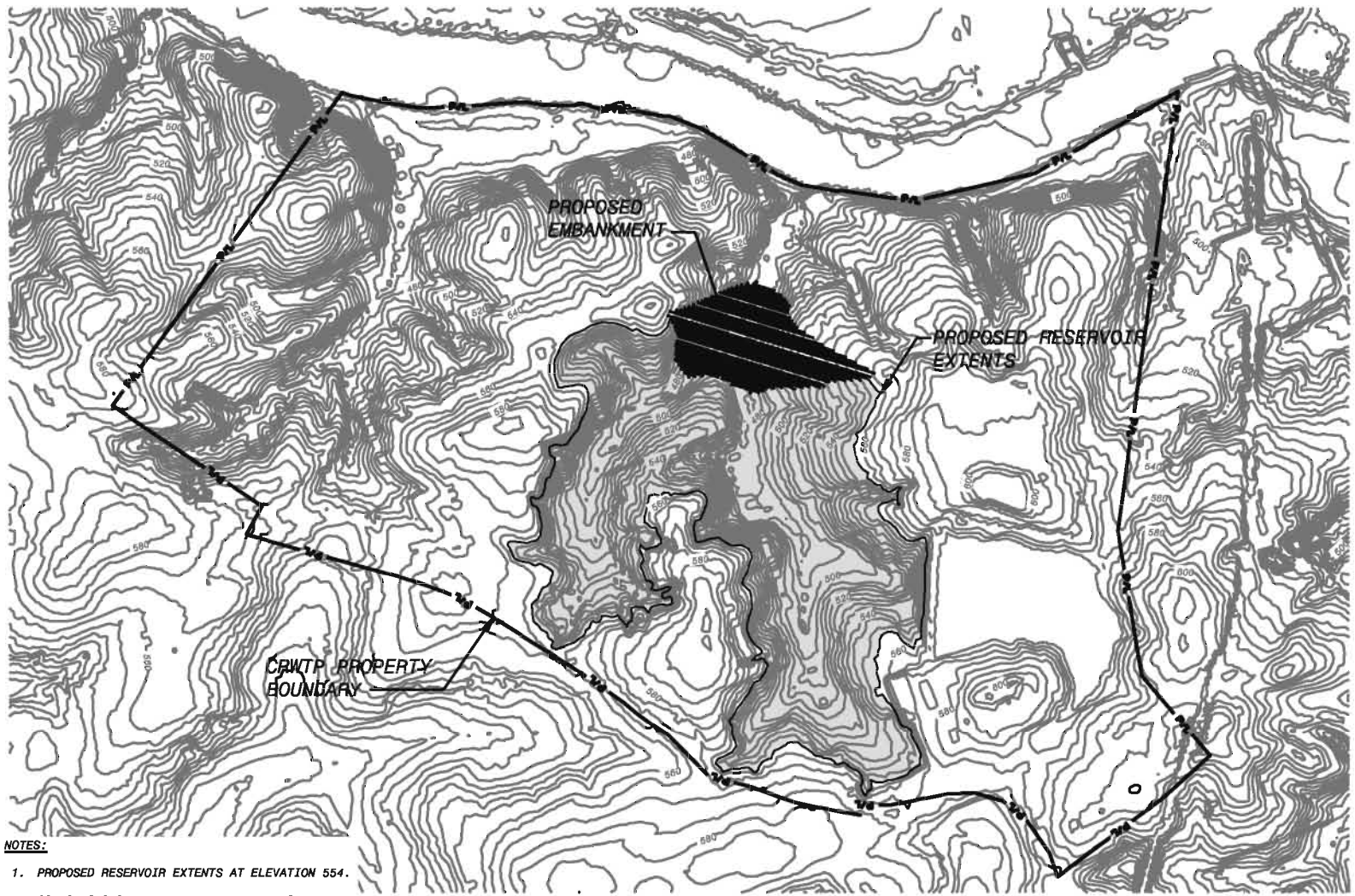
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CATAWBA RIVER WATER SUPPLY PROJECT

**CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE B - LOCATION MAP**

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

NOTES:

1. PROPOSED RESERVOIR EXTENTS AT ELEVATION 554.
2. CONTOURS SHOWN ARE IN 5 FT INTERVALS.

USGS TOPO MAP
1" = 1000'

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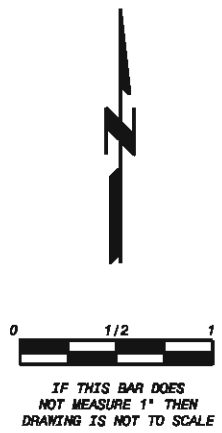
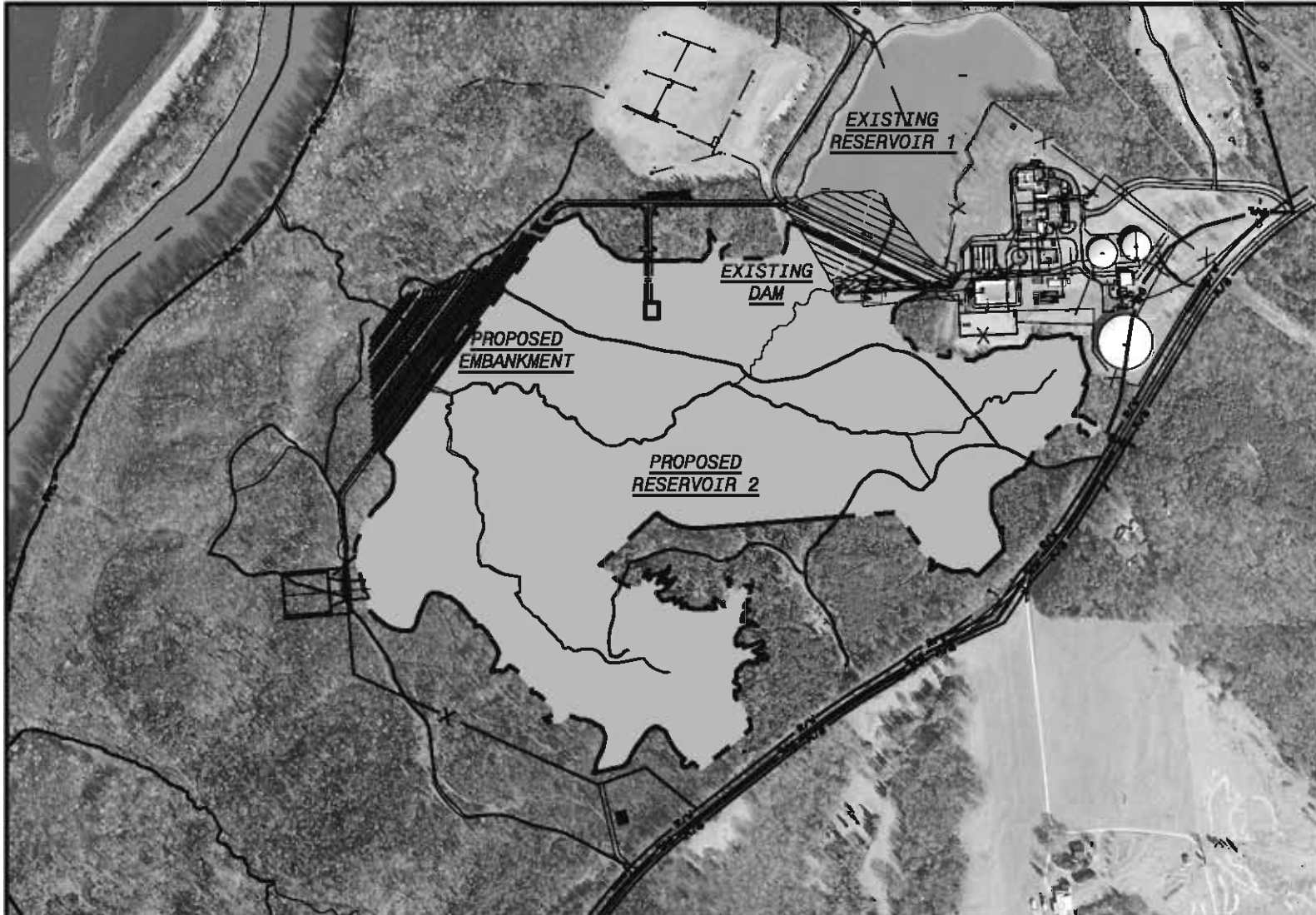
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CATAWBA RIVER WATER SUPPLY PROJECT


CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIG C- USGS TOPO MAP

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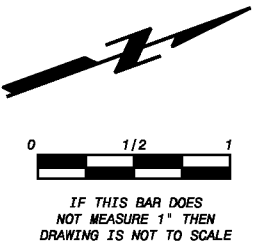
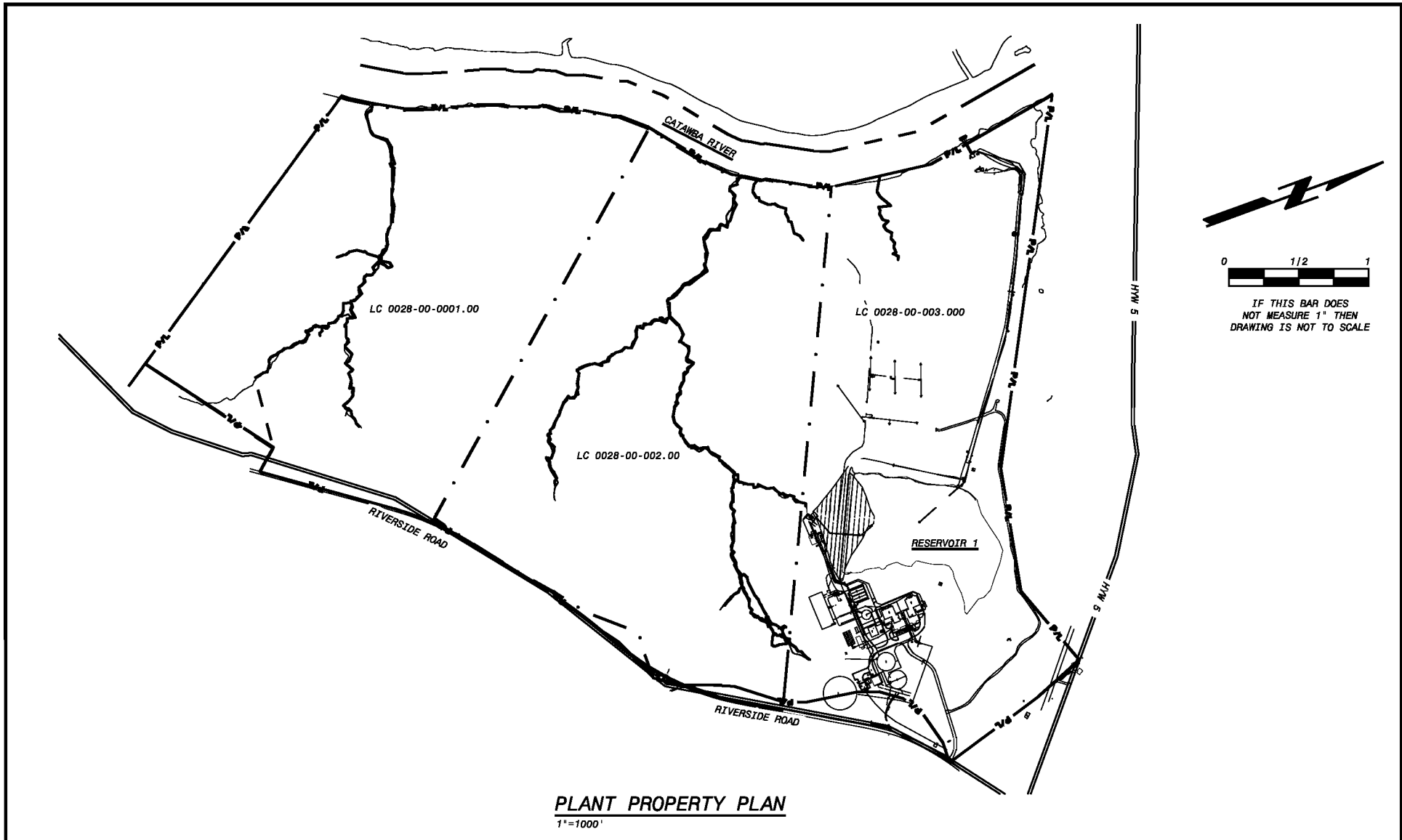
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PROPOSED SITE LAYOUT
1" = 700'

		 Black & Veatch Engineers - Architects		CATAWBA RIVER WATER SUPPLY PROJECT		SHEET 4 OF 17	
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PLANT PROPERTY PLAN
1"=1000'

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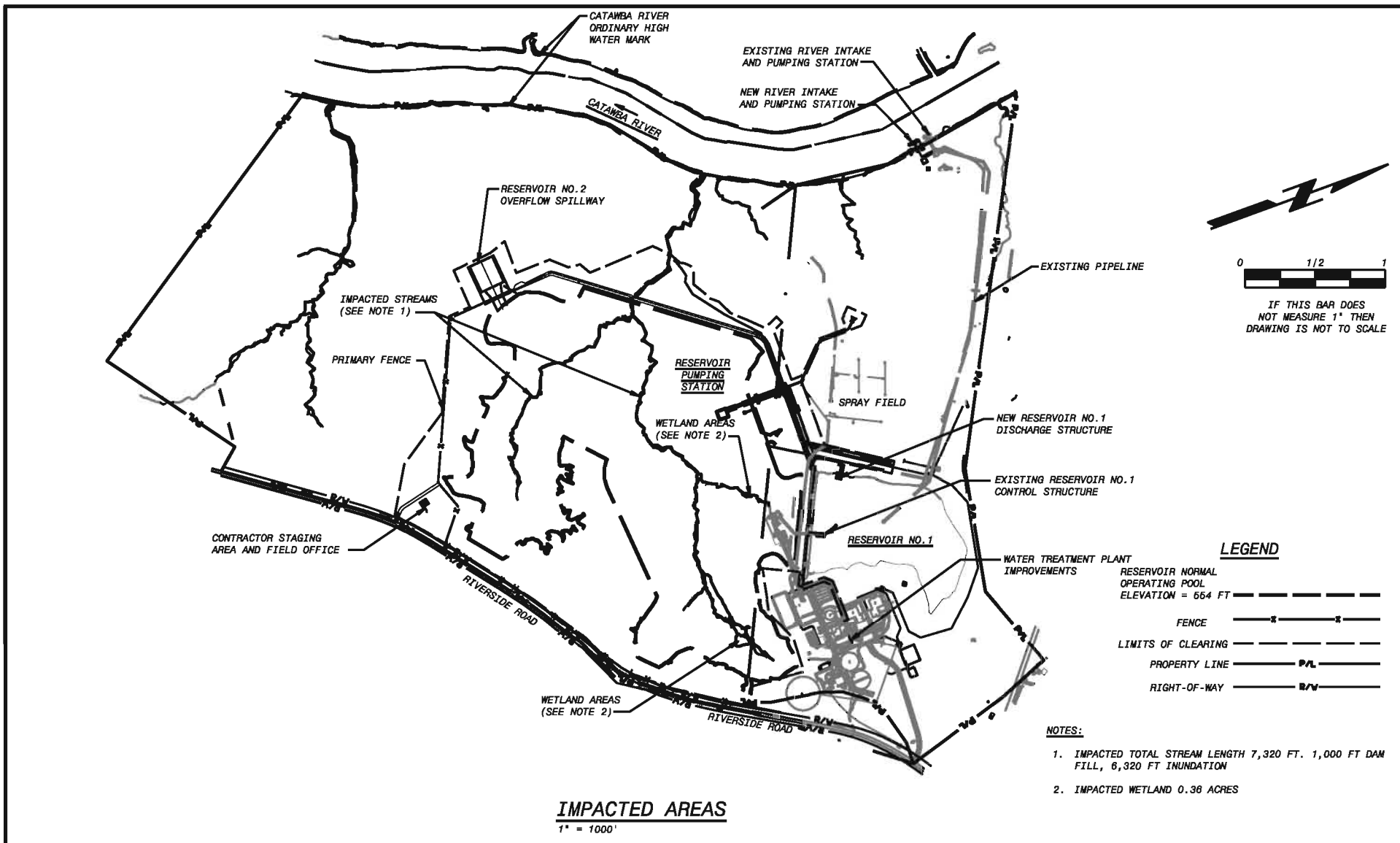
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CATAWBA RIVER WATER SUPPLY PROJECT

CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE E- PLANT PROPERTY PLAN

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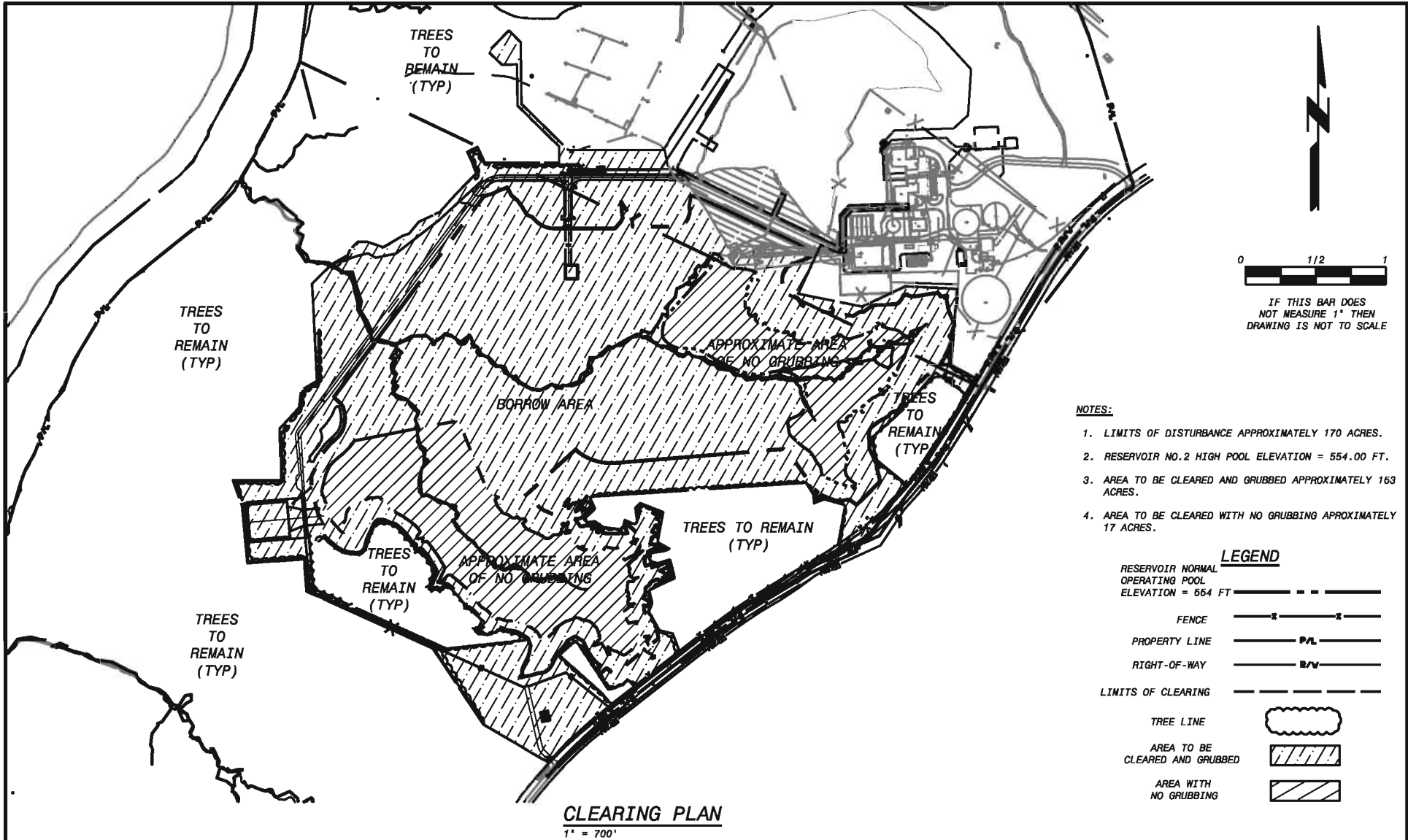
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CATAWBA RIVER WATER SUPPLY PROJECT

**CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE F - IMPACTED AREAS**



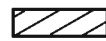
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- NOTES:**
1. LIMITS OF DISTURBANCE APPROXIMATELY 170 ACRES.
 2. RESERVOIR NO.2 HIGH POOL ELEVATION = 554.00 FT.
 3. AREA TO BE CLEARED AND GRUBBED APPROXIMATELY 163 ACRES.
 4. AREA TO BE CLEARED WITH NO GRUBBING APPROXIMATELY 17 ACRES.

LEGEND

RESERVOIR NORMAL OPERATING POOL ELEVATION = 664 FT	-----
FENCE	---x---
PROPERTY LINE	---PL---
RIGHT-OF-WAY	---R/W---
LIMITS OF CLEARING	-----
TREE LINE	
AREA TO BE CLEARED AND GRUBBED	
AREA WITH NO GRUBBING	

CLEARING PLAN
1" = 700'

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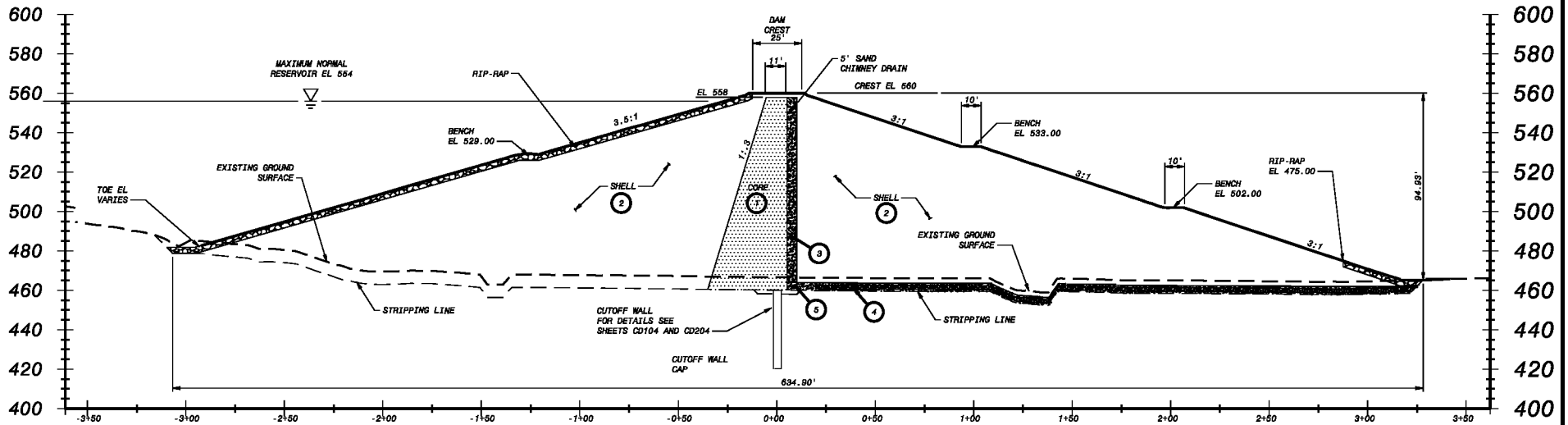
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CATAWBA RIVER WATER SUPPLY PROJECT

CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE G - CLEARING PLAN

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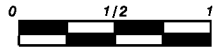
DAM CROSS SECTION - STA 5+50

1" = 80'-0"

LEGEND


EMBANKMENT ZONING

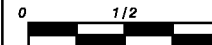
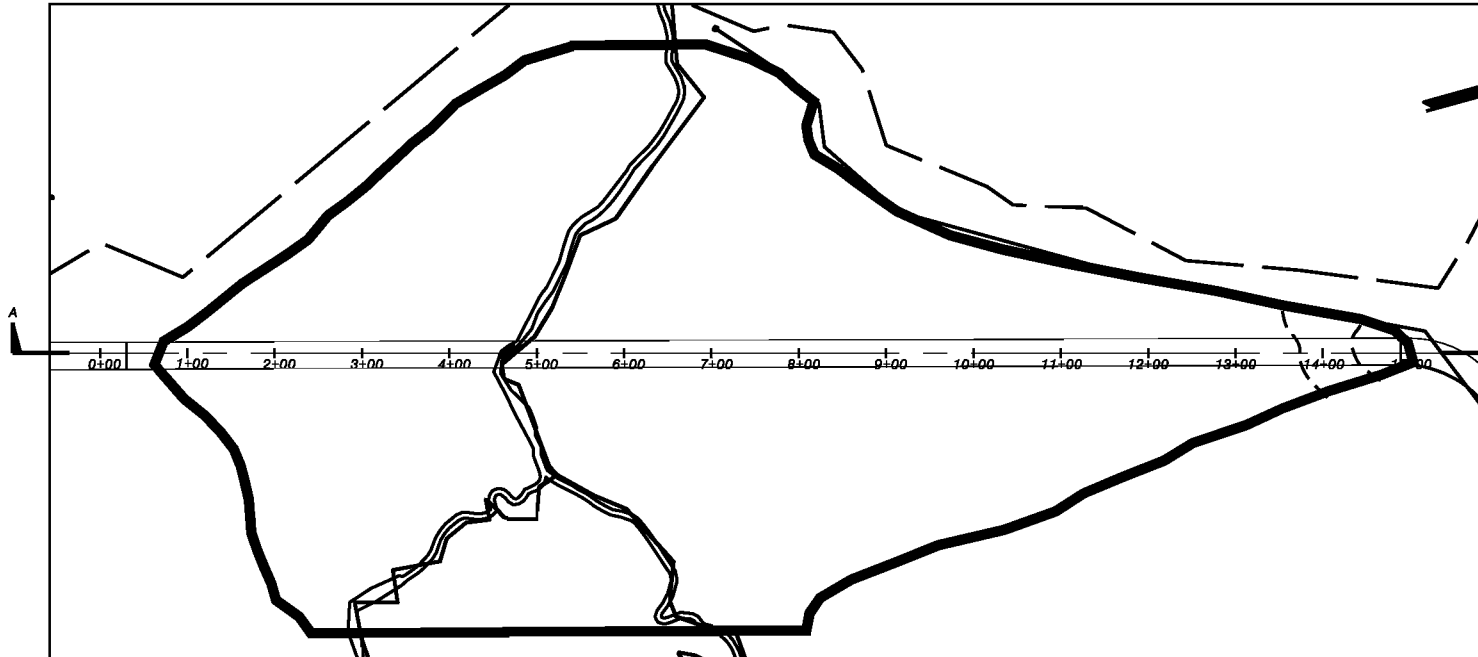
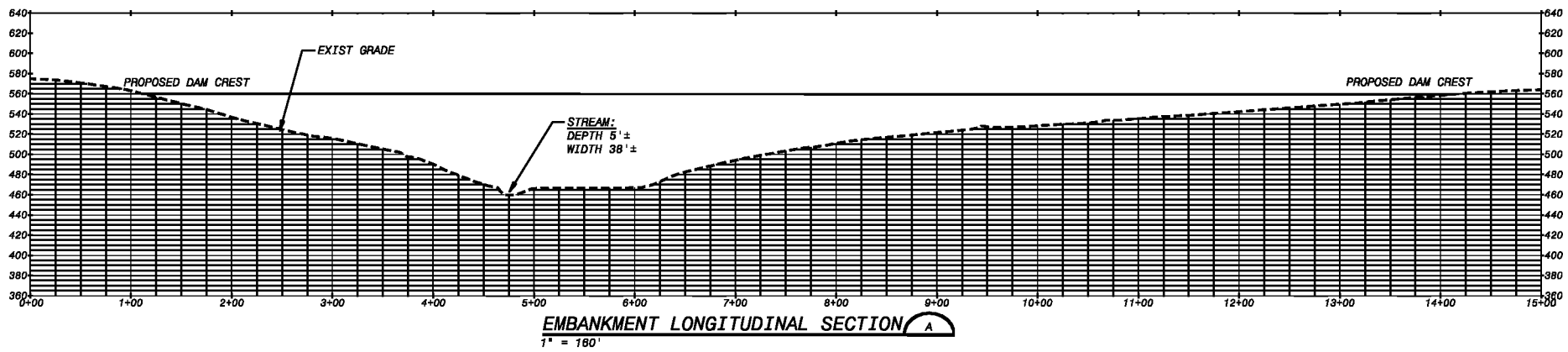
- ZONE 1: CORE
- ZONE 2: SHELL
- ZONE 3: CHIMNEY DRAIN (NC 4S SAND)
- ZONE 4: COMPOSITE BLANKET DRAIN GRAVEL (SC DOT8M)
- ZONE 5: COMPOSITE BLANKET DRAIN SAND (FA-13 SAND)



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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			Black & Veatch Engineers - Architects	CATAWBA RIVER WATER SUPPLY PROJECT		SHEET 8 OF 17
				 PROJECT 165000	CATAWBA RIVER WATER TREATMENT PLANT RAW WATER RESERVOIR EXPANSION FIGURE H - TYPICAL EMBANKMENT SECTION	
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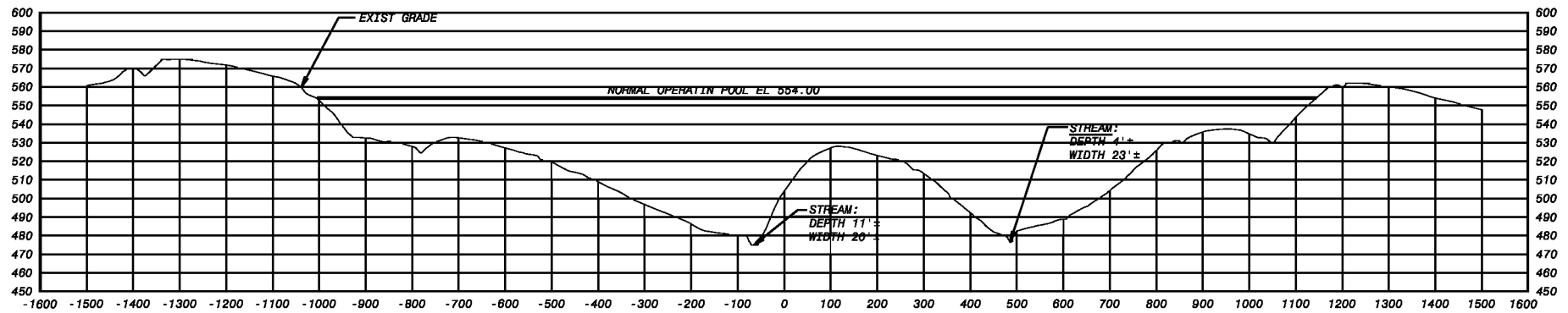
CATAWBA RIVER WATER SUPPLY PROJECT

CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE I - EMBANKMENT LONGITUDINAL SECTION

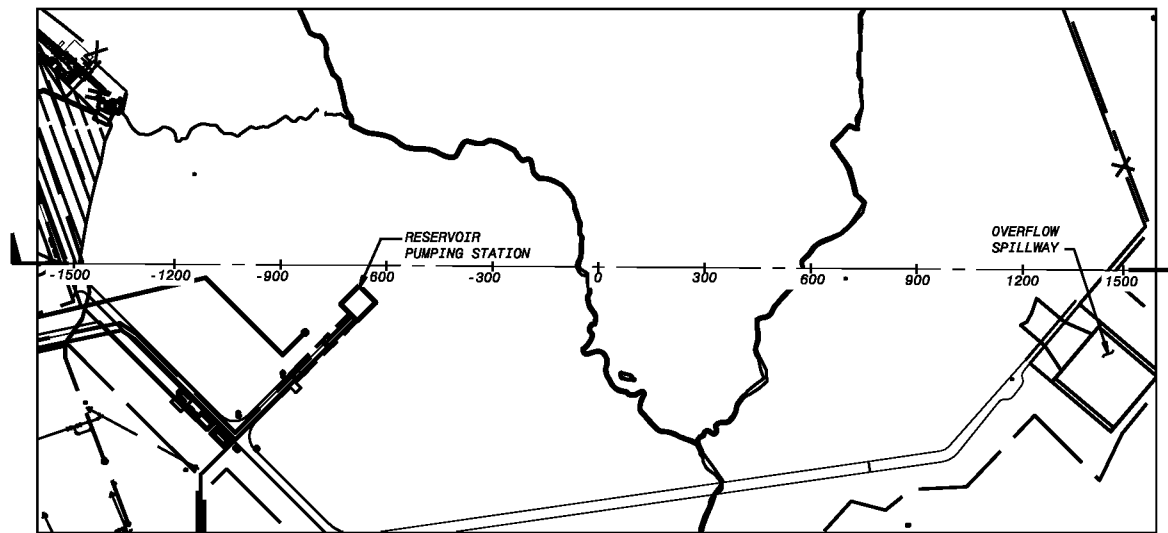
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RESERVOIR LONGITUDINAL SECTION
 1" = 350'-0"



RESERVOIR PLAN
 1" = 500'-0"

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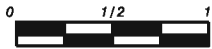
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CATAWBA RIVER WATER SUPPLY PROJECT

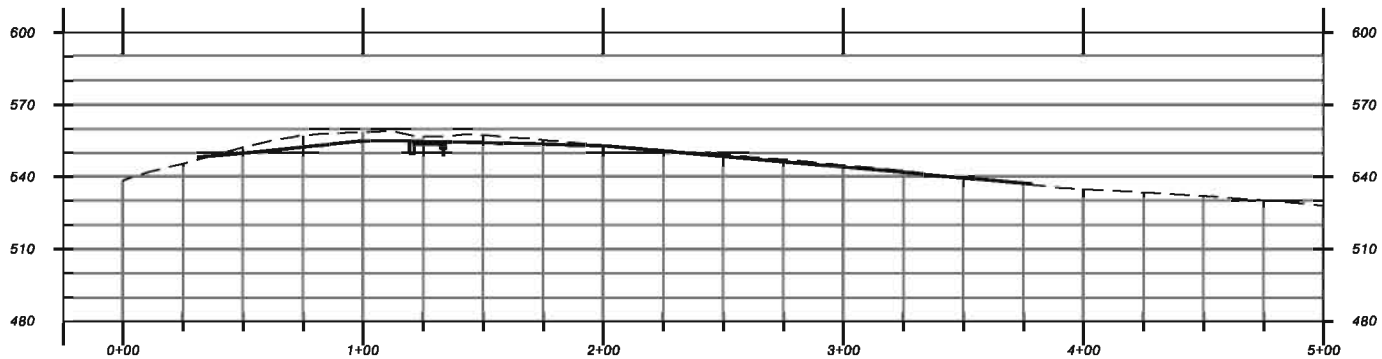
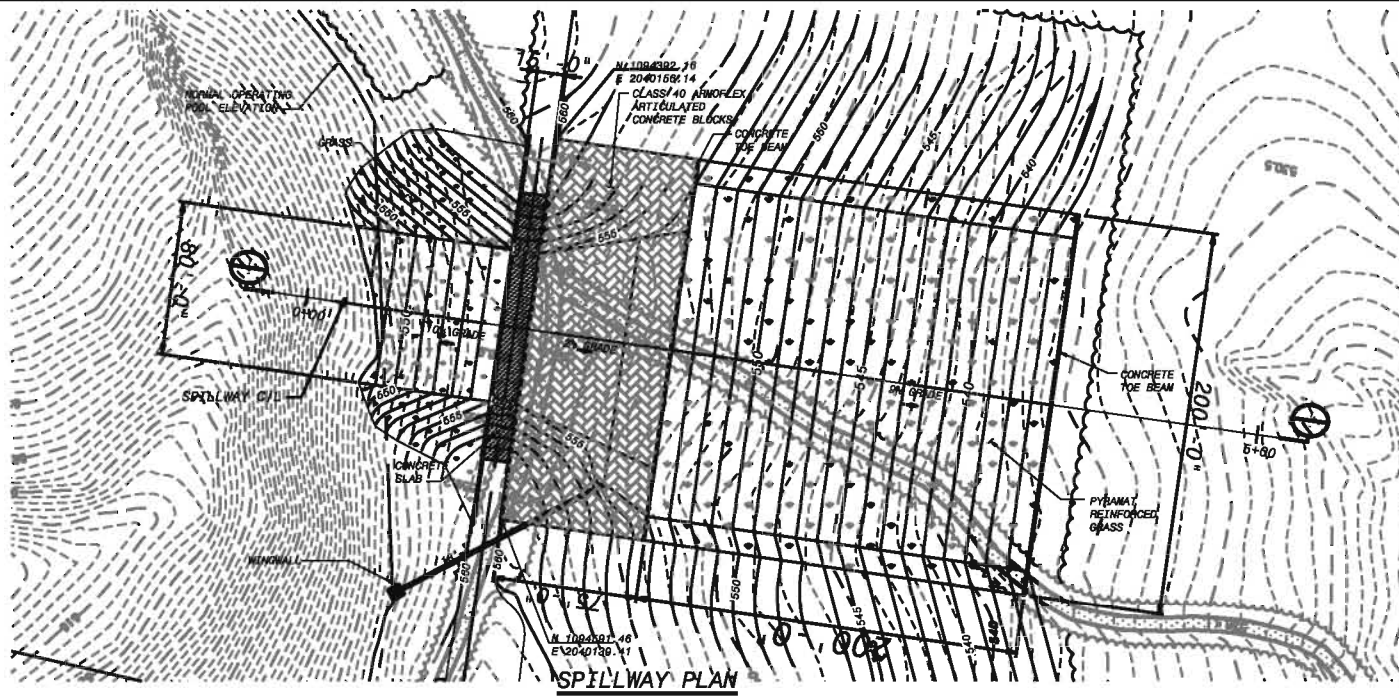
CATAWBA RIVER WATER TREATMENT PLANT
 RAW WATER RESERVOIR EXPANSION
FIGURE J - FILL IMPACTED AREAS AT STREAM LOCATIONS

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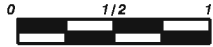
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CATAWBA RIVER WATER SUPPLY PROJECT

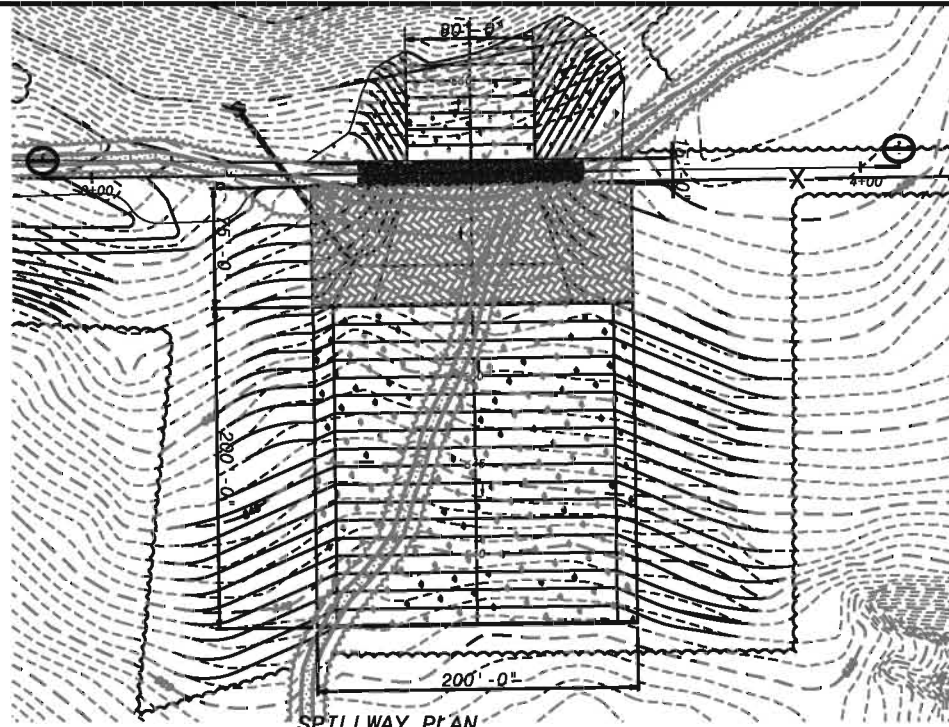
CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE K - SPILLWAY PLAN AND PROFILE

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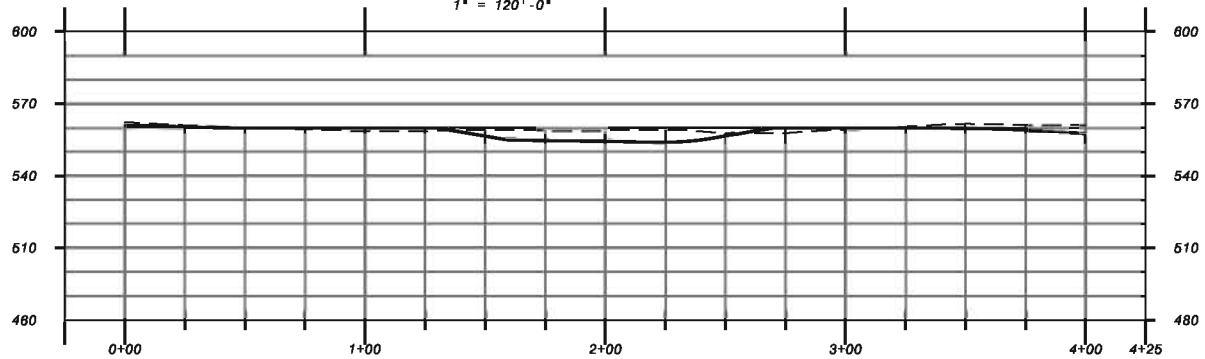


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SPILLWAY PLAN

1" = 120'-0"



SPILLWAY SECTION 2-2

1" = 80'-0"

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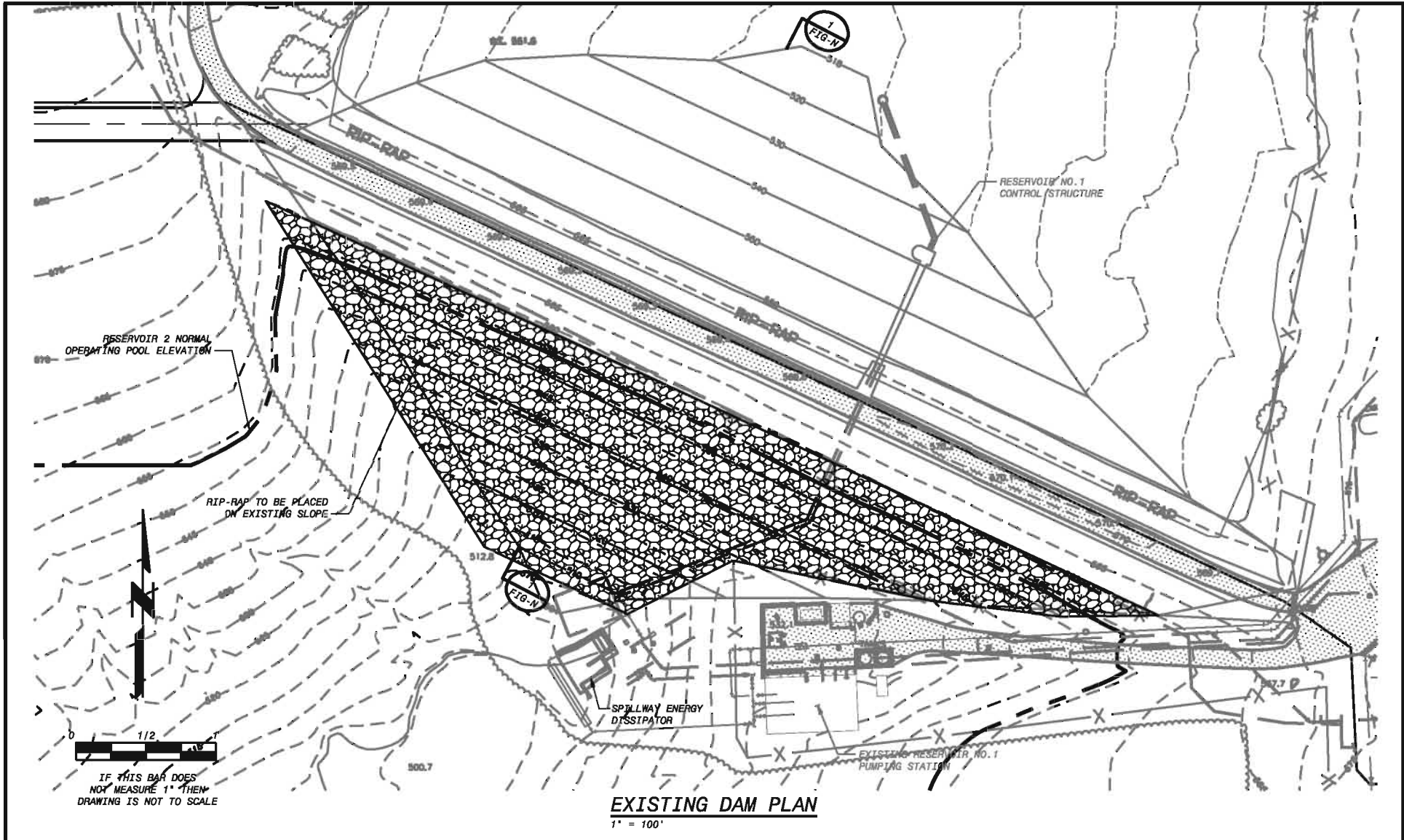
CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE L - SPILLWAY SECTION

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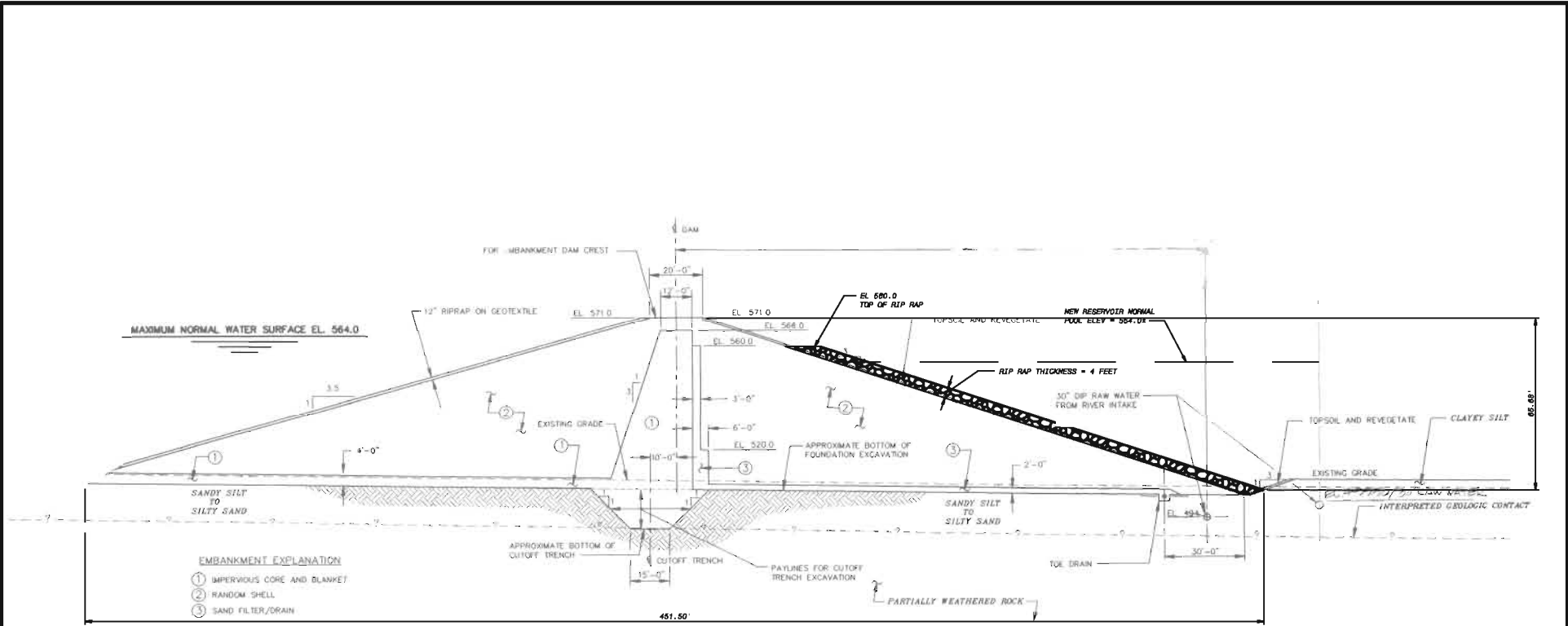
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EXISTING DAM PLAN
1" = 100'

		Black & Veatch Engineers - Architects		CATAWBA RIVER WATER SUPPLY PROJECT		SHEET	
		 PROJECT 165000		CATAWBA RIVER WATER TREATMENT PLANT RAW WATER RESERVOIR EXPANSION FIGURE M - EXISTING DAM PLAN		13 OF 17	
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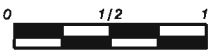
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EXISTING DAM SECTION 1
 1' = 60'-0"

NOTES:

1. ORIGINAL DRAWING BY HOR.
2. STRIPPED DOWNSTREAM SLOPE AND NEW MATERIALS WILL REQUIRE PROTECTION FROM EROSION DURING CONSTRUCTION PRIOR TO PLACEMENT OF RIP-RAP.



IF THIS BAR DOES NOT MEASURE 1' THEN DRAWING IS NOT TO SCALE

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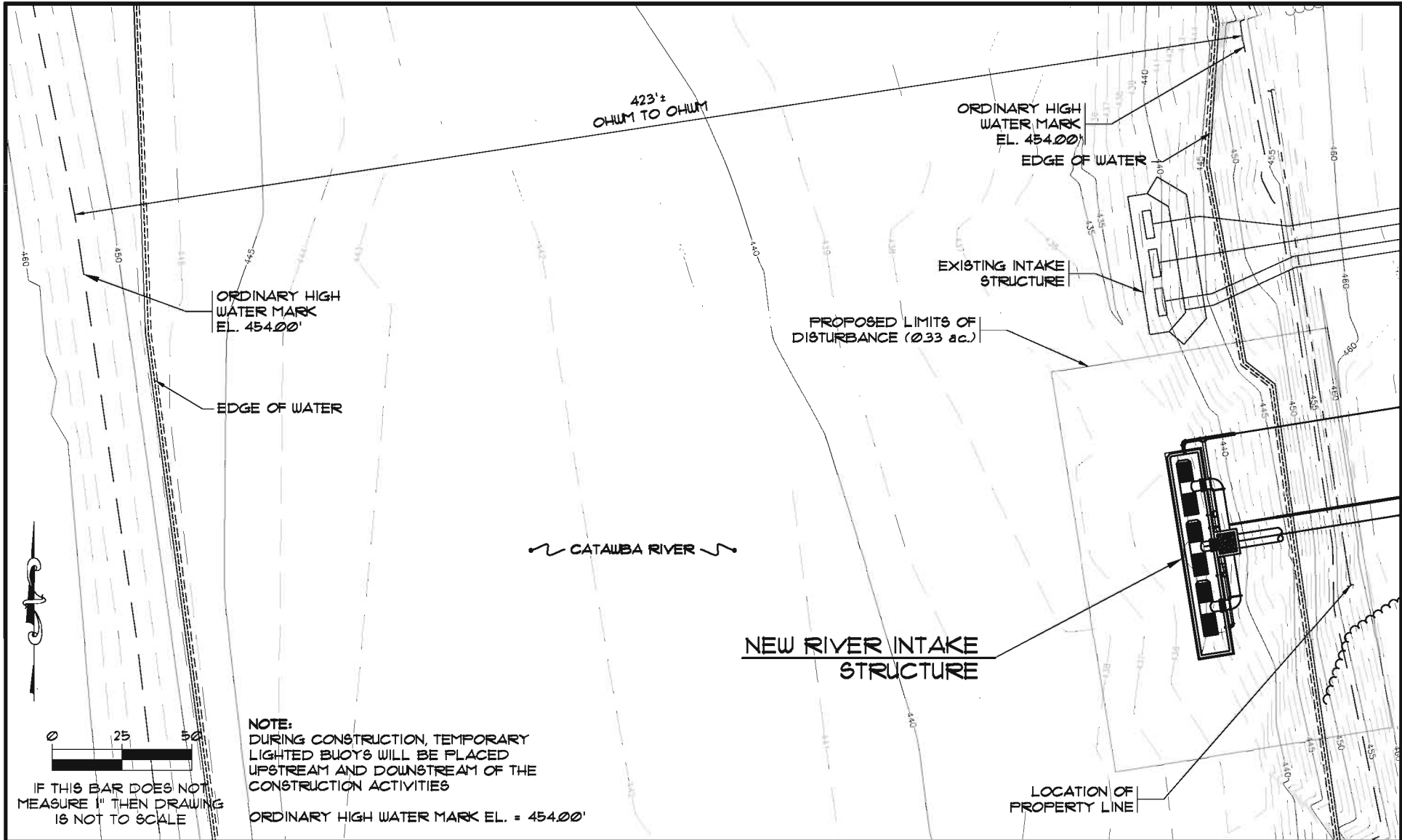
CATAWBA RIVER WATER SUPPLY PROJECT

CATAWBA RIVER WATER TREATMENT PLANT
 RAW WATER RESERVOIR EXPANSION
 FIGURE N - EXISTING DAM SECTION

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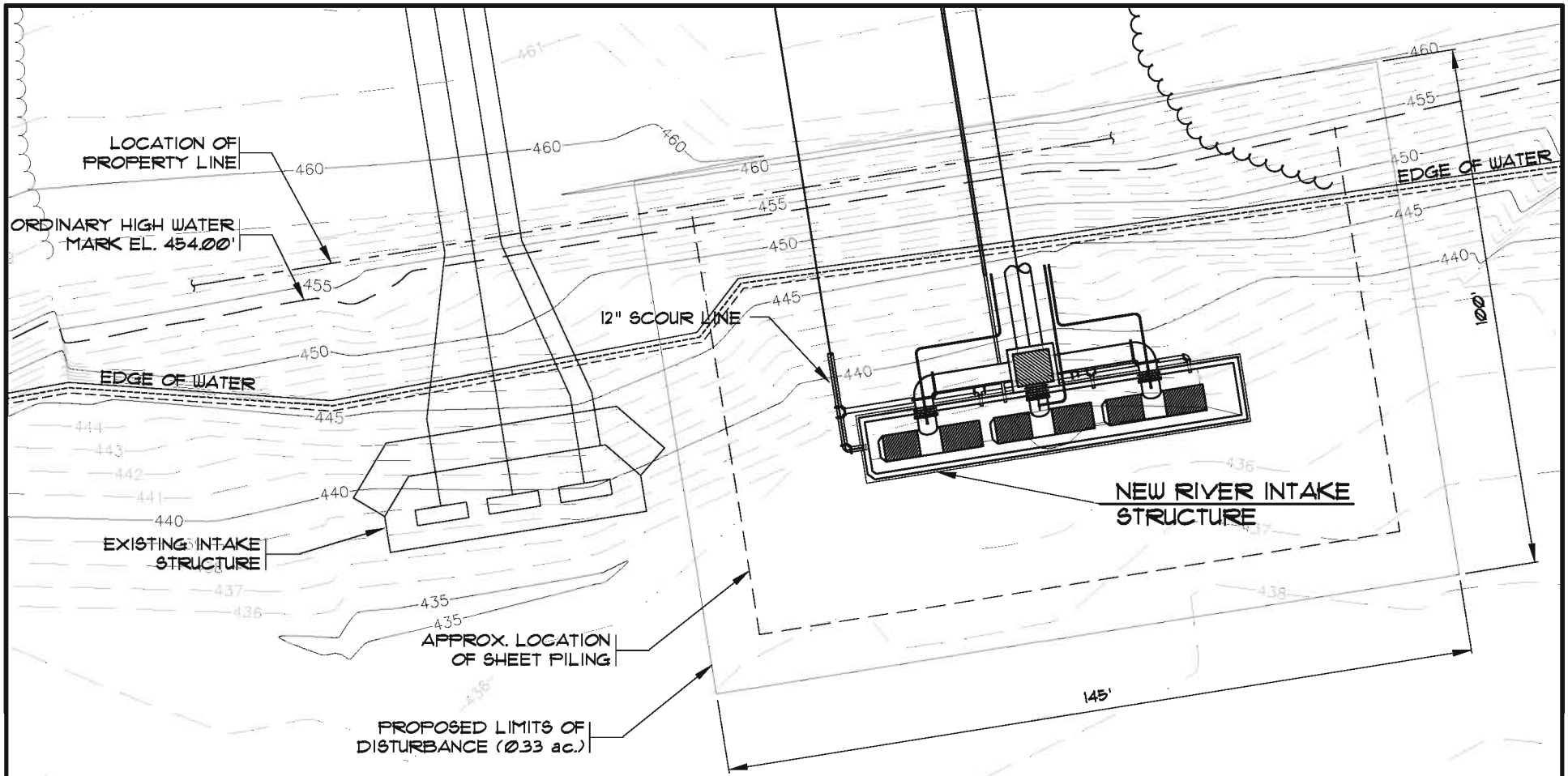
Hobbs Upchurch Associates
 engineering | planning | surveying
 Charlotte Office
 9140 Arrowpoint Blvd, Suite 120 | Charlotte, North Carolina 28273
 P: (704) 342-3000 | F: (704) 342-3077
 www.hobbsupchurch.com

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CAWATABA RIVER WATER SUPPLY PROJECT

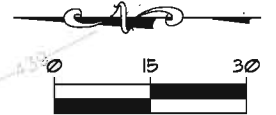
CATAWBA RIVER WATER TREATMENT PLANT
 RAW WATER RESERVOIR EXPANSION
 FIGURE 0 - RIVER INTAKE AREA PLAN

SHEET
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NOTE:
 DURING CONSTRUCTION, TEMPORARY LIGHTED BUOYS WILL BE PLACED UPSTREAM AND DOWNSTREAM OF THE CONSTRUCTION ACTIVITIES

~ CATAWBA RIVER ~




IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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Hobbs Upchurch Associates
 engineering | planning | surveying
 Charlotte Office
 9140 Arrowpoint Blvd, Suite 120 | Charlotte, North Carolina 28273
 P: (704) 342-3000 | F: (704) 342-3077
 www.hobbsupchurch.com



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CATAWBA RIVER WATER SUPPLY PROJECT

**CATAWBA RIVER WATER TREATMENT PLANT
 RAW WATER RESERVOIR EXPANSION
 FIGURE P - RIVER INTAKE**

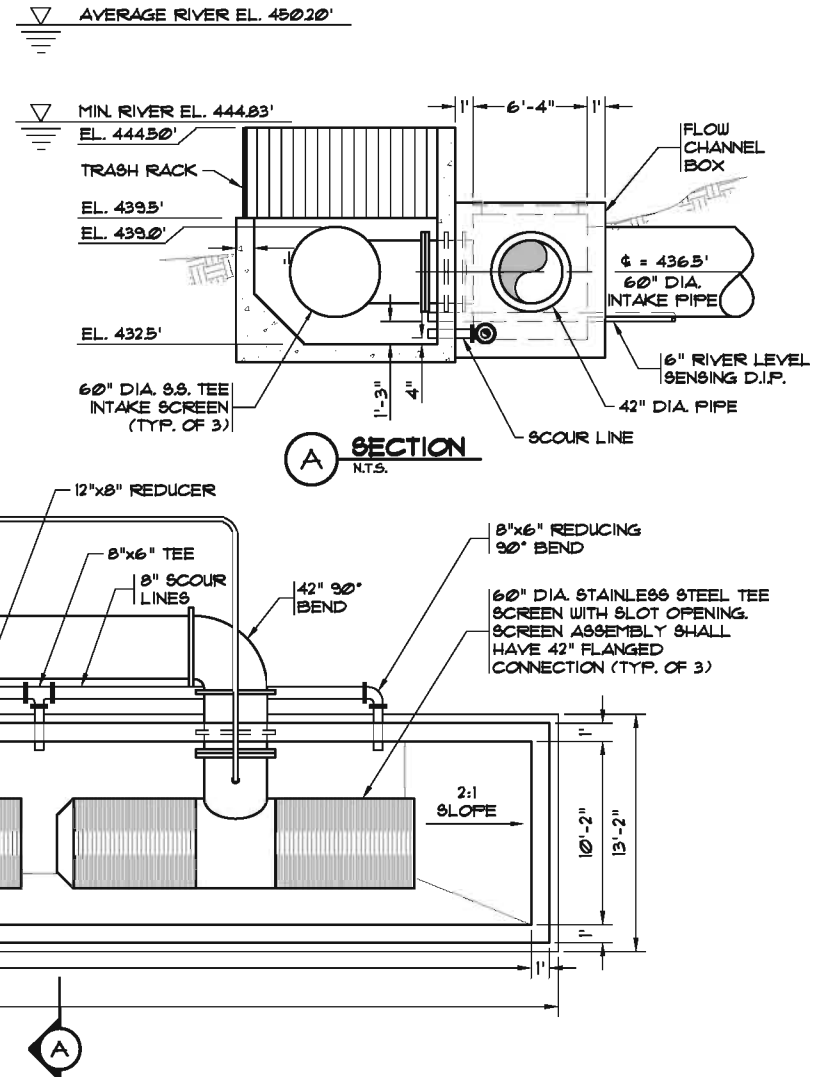
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NOTE:

1. IDENTIFY INTAKE LOCATION WITH CAN BUOYS WITH SOLAR LIGHT (TYP. OF 2) ATTACHED TO INTAKE.
2. THE SCREEN SLOT SIZE FOR RIVER INTAKE SCREENS SHALL BE 0.125in.
3. MAXIMUM VELOCITY ACROSS THE INTAKE SCREENS SHALL BE 0.5 FPS

NOTE:


DURING CONSTRUCTION, TEMPORARY LIGHTED BUOYS WILL BE PLACED UPSTREAM AND DOWNSTREAM OF THE CONSTRUCTION ACTIVITIES



**NEW RIVER INTAKE STRUCTURE
PLAN
N.T.S.**

4/29/2011	EA PUBLIC REVIEW	0	TB
DATE	REVISION OR ISSUE	NO	BY

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PROJECT
165000

CAWATABA RIVER WATER SUPPLY PROJECT

**CATAWBA RIVER WATER TREATMENT PLANT
RAW WATER RESERVOIR EXPANSION
FIGURE Q - INTAKE SECTION**

SHEET
17 OF 17

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