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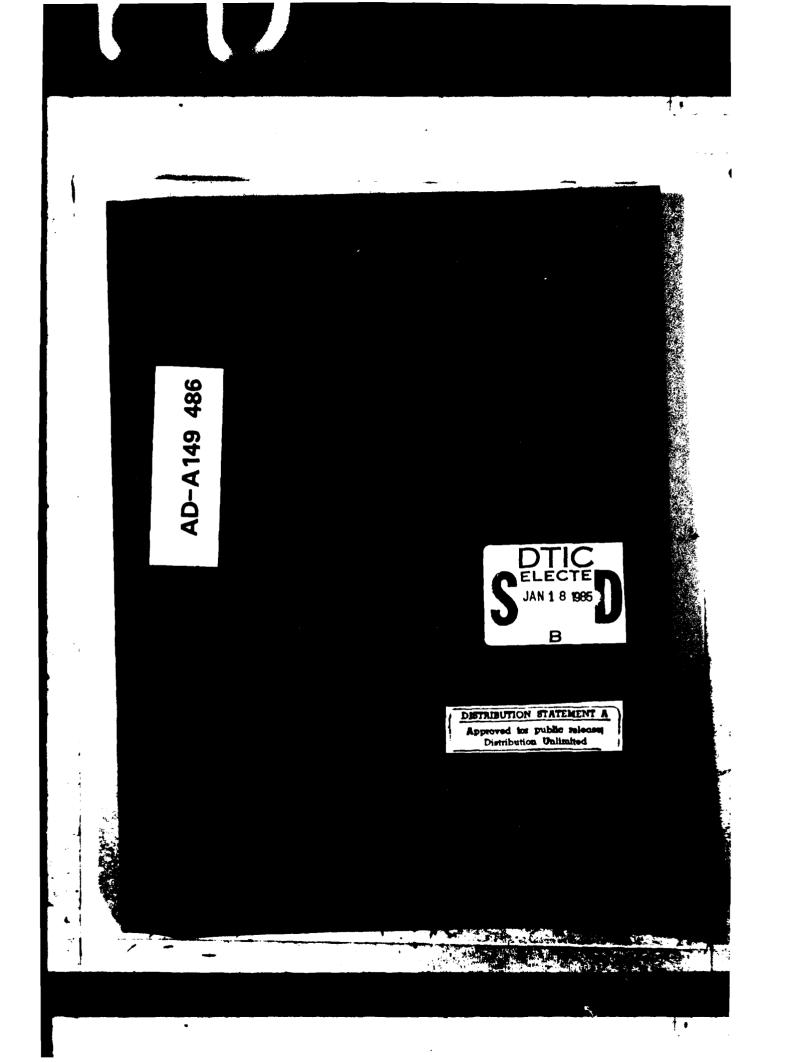


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 (3) Agreement between The United States of America and The Town of Kingstree and Williamsburg County, South Carolina (Section 221), dated 5 February 1976.
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MAINTENANCE MANUAL FOR SMALL FLOOD CONTROL PROJECT ON KINGSTREE BRANCH WILLIAMSBURG COUNTY, SOUTH CAROLINA

I. INTRODUCTION

A. Authorization

Authority for the development of a flood control project on Kingstree Branch, Williamsburg County, South Carolina is contained in Section 205 of the Flood Control Act of 1948, as amended.

B. Location

The Kingstree Branch watershed is located in Williamsburg County, South Carolina. The watershed includes part of the town of Kingstree and has an area of 8.7 square miles. Kingstree Branch originates northeast of the town of Kingstree, flows through the town, and outlets into the Black River.

C. Description

The Kingstree Branch flood control project provides approximately 1.36 miles of improved channel with bottom widths varying from 26 feet in the lower reaches to 24 feet in the upper reaches. The average depth of cut is approximately 5 feet with design side slopes of 2:1 in the extreme lower reaches and 1:1 in the middle and upper reaches. The attached plates show pertinent data related to the construction of the improved channel.

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D. Protection Provided

Full flood protection against storms up to a 90-year frequency for all residential property will be provided by the project. Public and commercial properties will be protected against storms having a recurrence interval of less than 35 years.

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E. Construction History

On 30 September 1976, a contract was awarded to E. L. McLamb Construction Company for construction of the Kingstree Branch Flood Control Project according to specifications published by U. S. Army Engineer District, Charleston (Serial No. DACW60-76-B-0026). Construction was completed on 23 June 1977.

11. LOCAL COOPERATION

A. Local interests are required to:

Provide without cost to the Government all lands, easements, and rights-of-way necessary for project construction and operation of the project;

(2) Provide without cost to the Government all highway, highway bridge, and utility construction and alterations necessary for project construction and locate any new waterlines or sewers on bridges or beneath the design channel grade to avoid interference with the channel capacities;

(3) Hold and save the Government free from damages due to construction and operation of the project except those damages due to the fault or negligence of the Government or its contractors;

(4) Maintain and operate all the works after completion in accordance with regulations prescribed by the Secretary of the Army;

(5) Protect the channel and other flood control works from future encroachment or obstruction that would reduce their flood-carrying capacity or otherwise impair them;

(6) Provide guidance and leadership in preventing unwise and uneconomical future development of the flood plain area by encouraging prudent use of flood proofing, land use regulations, or other flood plain management techniques to reduce future flood losses; (7) At least annually, inform affected interests that the channel improvement will not provide complete flood protection;

(8) Comply with the provisions of the "Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970," Public Law 91-646, 91st Congress, approved 2 January 1971; and

(9) Contribute all project costs in excess of the Federal limitation of One Million Dollars (\$1,000,000.00) specified in Section 205 of the Flood Control Act, approved 30 June 1948, as amended by Section 205 of the Flood Control Act approved 23 October 1962.

B. On 30 January 1967, a letter was received from the Town of Kingstree and Williamsburg County requesting that a full detailed investigation and study be made of the Kingstree Branch watershed. A copy of this letter is inclosed in Attachment A.

C. On 14 October 1971, the Town of Kingstree and the Williamsburg County Board of Commissioners, legally constituted governing bodies chartered by the State of South Carolina, assured the District Engineer, U. S. Army District, Charleston, South Carolina, that requirements of local cooperation would be fulfilled. A copy of this letter is inclosed in Attachment A.

D. On 5 February 1976, a local cooperation agreement, prepared in accordance with Section 221 of the Flood Control Act of 1970, was entered into between the United States of America, the Town of Kingstree, and Williamsburg County, South Carolina. The signed agreement represents a binding legal obligation on the Town of Kingstree and the County of Williamsburg to perform the local cooperation items required by Federal legislation. A copy of this agreement is inclosed in Attachment A.

III. GENERAL PROCEDURES

A. Section 208.10, Title 33 of the Code of Federal Regulations contains regulations for the operation and maintenance of local flood

protection works approved by the Secretary of the Army in accordance with authorities contained in Section 3 of the Flood Control Act of 22 June 1936, as amended and supplemented (pertinent excerpts of Section 208.10 are included as Attachment B).

B. The purpose of this manual is to assist the responsible authorities in carrying out their obligations through provision of information and advice regarding the maintenance requirements of the project in accordance with approved regulations.

C. The following general regulations are prescribed to govern the maintenance of Kingstree Branch Small Flood Control Project?

(1) The improved channels shall be continuously maintained in such a manner as to obtain maximum flood control and drainage benefits.

(2) The Town of Kingstree and Williamsburg County, South Carolina shall fointly appoint a permanent committee consisting of or headed by an official hereinafter called the "Superintendent" who shall be responsible for the continuing maintenance of the project.

(3) It shall be the duty of the Superintendent to submit a semiannual report to the District Engineer covering the inspection and maintenance of the project. The report should cover such items as number of inspections made, the condition of the channel, maintenance needed, and maintenance work done since the last report.

shall have access at all times to all portions of the project area.

(5) Maintenance measures which the District Engineer deems necessary shall be promptly taken.

(6) Instructions and sample forms for submission of semiannual inspection and maintenance reports for the project are attached (Attachment C). Forms for the reports will be furnished by the District Engineer to the Superintendent, when requested.

IV. SPECIFIC MAINTENANCE INSTRUCTIONS

Periodic inspections of the improved channels shall be made by the Superintendent to ascertain whether or not:

A. The channel is clear of debris, weeds, and wild growth.

B. The channel is being restricted by the deposition of waste material, the building of unauthorized structures, or other encroachments.

C. Sloughing of banks has occurred.

D. The capacity of the channel is being reduced by the formation of shoals.

Inspections shall be made immediately following winds of near hurricane force; immediately following each high water period; and otherwise at intervals not exceeding 90 days and, also, at such intermediate times as may be necessary to insure the unrestricted flow of the creek. Immediate steps shall be taken to remedy any adverse conditions disclosed by such inspections.

VITACHMENT A

TOWN OF KINGSTREE

POST OFFICE BOX 207 KINGSTREE, SOUTH CAROLINA

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Circulius (Micon FRANK H MCGILL MAYON MILDRED D WELCH CLERA & TREASURE Councilmon ROGER M BROWN GROVER C HYDRICK W P JOHNSON P K KOZMA ELAUDE H SMITH THOMAS M: CUTCHEN JR MAYOR FRO THM

January 30, 1967

Colouel Robert E. Rich District Engineer U. S. Army Dugineer District, Charleston P. O. Box 905 Charleston, South Carolina 29402

Dear Colonel Rich:

The information provided by you and your engineers during your visit here last week regarding the corps of Engineers' Plood Control Program was appreciated very much. It is hoped that your observations of the problem areas in this community will be of some benefit in making an initial evaluation of our request for assistance.

The Canal, which divides Kingstree in half, has given a great deal of trouble for many years. The origin of this canal is miles north of the city limits. The water from this section as well as the lower portion in the town has created numerious problems during flood stages. During this time the electern section of our town is completely cut-off from the western section. Disastrous results are caused for our citizens in several areas, fire and police protection, school and private transportation plus sewage disposal.

During heavy rains flooding surrounds business, residential and school districts approximately four feet. As a result land values decrease, heavy damage is inflected to buildings and roads, sales are lost and merchandise is damaged.

On behalf of the Town Council of the Town of Kingstree and the Board of County Commissioners of Williamburg County, we respectfully request that a full detailed investigation and study be made of the Canal. Construction of a small flood control project under the authority of Section 205 of the 1948 Flood Control Act is also requested if the investigation and study proves such a project to be feasible and economically justified. The Town of Kingstree and Williamsburg County will furnish whatever is necessary and required as the local sponsoring agency for such a project.

Respectfully yours, Frank H. McGill Mayor Town of Kingstree, S. C.

J Aug & Mi Cutcher

J. Hugh McCutchen Chairman Board of Commissioners Williamsburg County TOWN OF KINGSTREE

. POST OFFICE BOX 207 KINGS TREE, SOUTH CAROLINA 29556

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MICHAFI HOLMES M.D. P.K. KOZMA M. CLIFF MODRF THOMAS MCCUTCHEN JH CLAUDE H. SMITH

Getober 14, 1971

Colonil Robert G. Nelson District entineer U.S. Arry Engineer District P. O. Box 919 Charleston, S. C. 29402

Dear Colonel Neison:

The tewn of kindstree and Williamsburg County hereby give the Corps of Engineers the following assurances of cooperation for the execution of the kindstree branch Flood Control Project in the town of Kingstree when our funds are available and the project is authorized for construction, we will perform the following:

a. Frovide without cost to the United States, all lands, easements and right-of-way necessary for project construction and operation of the project;

b. Frovide without cost to the United States, all highway, highway bridge and utility construction and alterations necessary for project construction and locate any new waterlines or sewers on bridges or beneath the design channel grade to avoid interference with the channel capacities;

c. Hold and save the United States free from damages due to construction and operation of the project;

d. Maintain and operate the works after completion in accordance with regulations prescribed by the Scoretary of the Army;

e. Protect the channel and other flood control works from future encroachment or obstruction, including waste disposal, that would reduce their flood-carrying capacity or otherwise impair them;

f. Provide guidance and leadership in preventing unwise and uneconomical future development of the flood plain;

g. At least annually, inform affected interests that the channel_improvement_will not provide complete flood protection.

Respectfull vours Leonard B. Burgess Mayor Town of Kingstree

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J. Hugh McCutchen Supervisor Williamsburg County AGMENTIN BETTELT THE UNITED STATES OF ALL STA AND FOR FOR LOTAD OF SETUES AT FORCE TO ALL STATES ALL STATES

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WHEPEAS, the f, wors here prepresent that they have the authority and capitality to feasible the non-Ecdenal coopenation required by the feature lay solution authorizing the Project and by other applicules but

NOW, THEFEE C, the partner agree as follows:

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 substantially is according with all applicable Federal legislation

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d. Hainful and quinter all the works after conjection in according with numbers of prescribed by the Successing of the Army;

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 from future of a second contraction, that would reduce their floodcorrying regions to the other magnet tree;

f. Provide such a condition only in preventing undification is not been builded available of the flood plane as a tychorumonies is what use of the diproting, land use regulations, on other flood plane same, but techniques to reduce future flood becaus;

9. At least annually, inform affected interests that the channel of reversatural not prove to complete fleed protection;

 h. Couply with the provisions of the "Uniform Relocation Assistance and Heal Property Acquisition Policies Act of 1970," Public Law 91-640, 91st Congress, approved 2 January 1971;

i. Contribute all Project costs in excess of
 the Federal limitation of Committion Dollars (\$1,000,000.00)
 specified in Section 205 of the Flood Control Act, approved 30
 June 1948, as an ended by Section 205 of the Flood Control Act,
 approved 23 October 1962.

2. The Sponsors hereby give the Government a right to enter upon, at reasonable thes and in a reasonable manner, lands which the Sponsors own or control, for access to the Project for the purpose of inspection, and for the purpose of operating, repairing, and maintaining the Project, if such inspection shows that the Sponsors for any reason are failing to repair and maintain the Project in accordance with the assurances hereunder and have persisted in such failure after a reasonable notice in writing by the Government delivered to the Mayor, Town of Kingstree, South Carolina, and the Chairman, Board of Condissioners, Williamsburg County, South Carolina. Ro operation, repair, and maintenance by the Government in such event shall operate to relieve the Sponsors of responsibility to rect their obligations as set forth in paragraph 1 of this Agreement, or to preclude the Government from pursuing any other recedy at law or equity.

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3. This Agree but is subject to the approval of the

Secretary of the Arry, or his authorized representative.

IN MIRE MEDICAL OF, the parties hereto have executed this contract as of the day and year first above written.

THE UNITED STATES OF ANERLOAD

(Model) (cerr

District Englisher Contracting Officer

Date 2 132 card 1286

APPROVED:

Secretary of the work, for the Authornized Depresentative

Date 17 7:1. 11/1

Donument Levie (1 rt 1 Approved Or Legal to the second Office of Consult

THE TO BE OF A DUST STREET-SOULH CARLENA LEC ... Mayor Date / 18:0000 5 1926

ATTEST:

By 1997 11 B Date FIBRUARY 5, 1916

THE COUNTY OF WILLIAMSBURG, SOUTH CAROLINA

By Theory States States

Date FRORVARY 3, 1476

ATTEST:

By ELIZAD; IN L. DERRICK, CLERK Date Fronunky 3, 1976.

This Agreement has been reviewed and is approved for legal sufficas a bindime legal obligation on the Tewn of Kinastree, South Carconstituant with Section 221 of Fublic Law 91-(12 (Flood Control 1 of 1970).

ABBE/WEDE

By Ch S. March C. Town Autors y Tour of Hings to e, South Corolina Date France Mars

This agreement has been approved and reviewed for legal sufficient as a binding legal obligation on the County of Williessburg, Course Caroling, condition with Section 201 of Public law 91-611 (1.5) Control Act of 1970).

APPROVED:

County fitter y County of Willing sturg, South Carolina Date [18 1849 . 5 1476

ATTACHMENT B

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Excerpts From

TITLE 33 - NAVIGATION AND NAVIGABLE WATERS

CHAPTER II - CORPS OF ENGINEERS - DEPARTMENT OF THE ARMY

PART 208 - FLOOD CONTROL REGULATIONS

MAINTENANCE AND OPERATION OF FLOOD CONTROL WORKS

Authority. The provisions of this Part 208 issued under sec. 7,58 Stat. 890; 33 U.S.C. 709, unless otherwise noted.

208.10 LOCAL FIDOD PROTECTION WORES, MAINTENANCE AND OPERATION OF STRUCTURES AND FACILITIES.

(a) General.

(i) The structures and facilities constructed by the United States for local flood protection shall be continuously maintained in such a manner and operated at such times and for such periods as may be necessary to obtain the maximum benefits.

(2) The State, political subdivision thereof, or other responsible local agency, which furnished assurance that it will maintain and operate flood control works in accordance with regulations prescribed by the Secretary of the Army, as required by law, shall appoint a permanent committee consisting of or headed by an official hereinatter called the "Superintendent," who shall be responsible for the development and maintenance of, and directly in charge of, an organization responsible for the efficient operation and maintenance of all of the structures and facilities during flood periods and for continuous inspection and maintenance of the project works during periods of low water, all without cost to the United States.

(3) A reserve supply of materials needed during a flood emergency shall be kept on hand at all times.

(4) No encroachment or trespass which will adversely affect the efficient operation or maintenance of the project works shall be permitted upon the rights-of-way for the protective facilities.

(5) No improvement shall be passed over, under, or through the walls, levees, improved channels or floodways, nor shall any excavation or construction be permitted within the limits of the project right-of-way, nor shall any change be made in any feature of the works without prior determination by the District Engineer of the Department of the Army or his authorized representative that such improvement, excavation, construction, or alteration will not adversely effect the functioning of the protective facilities. Such improvements or alterations as may be found to be desirable and permissible

ATTACHMENT B

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under the above determination shall be constructed in accordance with standard engineering practice. Advice regarding the effect of proposed improvements or alterations on the functioning of the project and information concerning methods of construction acceptable under standard engineering practice shall be obtained from the District Engineer or, if otherwise obtained, shall be submitted for his approval. Drawings or prints showing such improvements or alterations as finally constructed shall be furnished the District Engineer after completion of the work.

(6) It shall be the duty of the superintendent to submit a semi-annual report to the District Engineer covering inspection, maintenance, and operation of the protective works.

(7) The District Engineer or his authorized representatives shall have a cess at all times to all portions of the protective works.

(8) Maintenance measures or repairs which the District. Engineer deems necessary shall be promptly taken or made.

(9) Appropriate measures shall be taken by local authorities to insure that the activities of all local organizations operating public or private facilities connected with the protective works are coordinated with those of the Superintendent's organization during flood periods.

(10) The Department of the Army will furnish local interests with an Operation and Maintenance Manual for each completed project, or separate useful part thereof, to assist them in carrying out their obligations under this part.

(b) Drainage structures

the Maintenance. Adequate measures shall be taken to insure that inlet and outlet channels are kept open and that trash, drift, or debris is not allowed to accumulate near drainage structures. Flap gates and manually operated gates and valves on drainage structures shall be examined, oiled, and trial operated at least once every 90 days. Where drainage structures are provided with stop log or other emergency closures, the condition of the equipment and its housing shall be inspected regularly and a trial installation of the emergency closure shall be made at least once each year. Periodic inspections shall be made by the Superintendent to be certain that:

(i) Pipes, gates, operating mechanism, riprap, and headwalls are in good condition;

(ii) Inlet and outlet channels are open;

(iii) Care is being exercised to prevent the accumulation of trash and debris near the structures and that no fires are being built near bituminous coated pipes;

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ATTACHMENT B

(iv) Erosion is not occurring adjacent to the structure which might endanger its water tightness or stability.

Immediate steps will be taken to repair damage, replace missing or broken parts, or remedy adverse conditions disclosed by such inspections.

(c) Channels and floodways

(1) Maintenance. Periodic inspections of improved channels and floodways shall be made by the Superintendent to be certain that:

(i) The channel or floodway is clear of debris, weeds, and wild growth;

(11) The channel or floodway is not being restricted by the depositing of waste materials, building of unauthorized structures or other encroachments;

(1) The capacity of the channel or floodway is not being reduced by the formation of shoals;

(iv) Banks are not being damaged by rain or wave wash, and that no sloughing of banks has occurred;

(v) Riprap sections and deflection dikes and walls are in good condition;

(vi) Approach and egress channels adjacent to the improved channel or floodway are sufficiently clear of obstructions and debris to permit proper functioning of the project works.

Such inspections shall be made prior to the beginning of the flood season and otherwise at intervals not to exceed 90 days. Immediate steps will be taken to remedy any adverse conditions disclosed by such inspections. Measures will be taken by the Superintendent to promote the growth of grass on bank slopes and earth deflection dikes. The Superintendent shall provide for periodic repair and cleaning of debris basins, check dams, and related structures as may be necessary.

(2) Operation. Both banks of the channel shall be patrolled during periods of high water, and measures shall be taken to protect those reaches being attacked by the current or by wave wash. Appropriate measures shall be taken to prevent the formation of jams of ice or debris. Large objects which become lodged against the bank shall be removed. The improved channel or floodway shall be thoroughly inspected immediately following each major high water period. As soon as practicable thereafter, all snags and other debris shall be removed and all demage to banks, riprap, deflection dikes

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ATTACHMENT B

and walls, drainage outlets, or other flood control structures repaired.

(d) Miscellaneous facilities

(1) Maintenance. Mixed lancous structures and tabletic constructed as a part of the protective works and other site times and to instruct which function as a part of, or affect the efficient functioning of the protective works, shall be periodically inspected by the Superintendent and appropriate maintenance measures taken. Damaged or unserviceable parts shall be repaired or replaced without delay. Areas used for pinding in connection with pumping plants of for the place of interior remeated during flood periods shall not be allowed to become filled with silt, debris, or dumped material. The Superintendent shall take proper steps to prevent restriction of bridge openings and, where practicable shall provide for temperate raising during floods of bridges which restrict channel capacities during high flows.

(2) Operation. Miscellaneous facilities shall be operated to prevent or reduce flooding during periods of high water. Those facilities constructed as a part of the protective works shall not be used for purposes other than flood protection without approval of the District Engineer unless designed therefor.

ATTACHMENT B

ATTACHMENT C

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INSPECTION AND MAINTENANCE REPORTS

Kingstree Branch

GENERAL

1. Reports shall be submitted on or about 1 January and 1 July of each year to:

District Engineer P.S. Army Engineer District, Charleston Corps of Engineers Post Office Box 919 Charleston, South Carolina 29402

2. Inspections shall be made (a) immediately following winds of near hurricane force; (b) immediately following each high water period; and (c) otherwise at intervals not exceeding 90 days and, also, at such intermediate times as may be necessary to insure the unrestricted flow of the stream.

3. This form shall be used as a check list in making each inspection and the conditions requiring maintenance work shall be inserted in the appropriate spaces. On the form on which the condition requiring maintenance was first reported, there shall be inserted explanatory information describing the methods employed to correct the condition; or, in the event the inspection form is submitted prior to corrective action being taken, information shall be inserted regarding arrangements that have been made to have conditions corrected.

4. Maintenance shall be performed as required to insure unrestricted flow of the stream.

5. If spaces provided for the insertions are insufficient, the information should be continued on plain sheets and attached to the report.

6. Additional forms may be obtained as needed by requesting them from the District Engineer (see address in paragraph 1 above).

ATTACHMENT C

INSPECTION AND MAINTENANCE REPORT OF KINGSTREE BRANCH

INCPL	ECTION AND MAINTENANCE REPORT
Name of Channel:	
	Check below the type of inspection made.
()	Following high winds Date of inspection:
()	Foilowing high water Date of inspection:
()	Routine Date of inspection:
Condition of Channel:	(1) If the channel shows evidence of any of the following conditions, describe briefly the approximate location, degree of obstruction, type of maintenance action taken, etc.
(a) Bank caving:	
(b) Excessive growth	of grass and weeds:
<u></u>	
	
(c) Accumulation of	trash, drift, or debris:
<u></u>	

	INSPECTION AND MAINTENANCE PEROPET (Cont'd)	
(d) Downed tree	s in channel:	
	ing conditions:	~
	(2) Give general condition of channel:	
	() Good () Fair () Poor (3) Remarks:	
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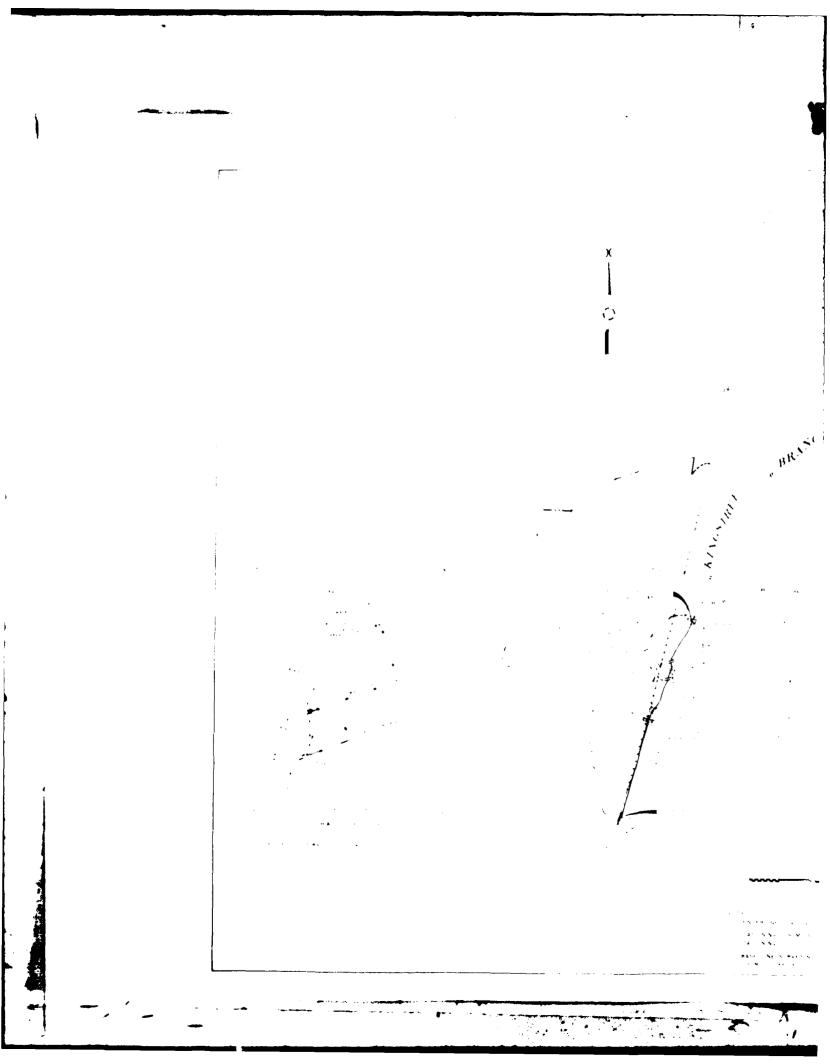
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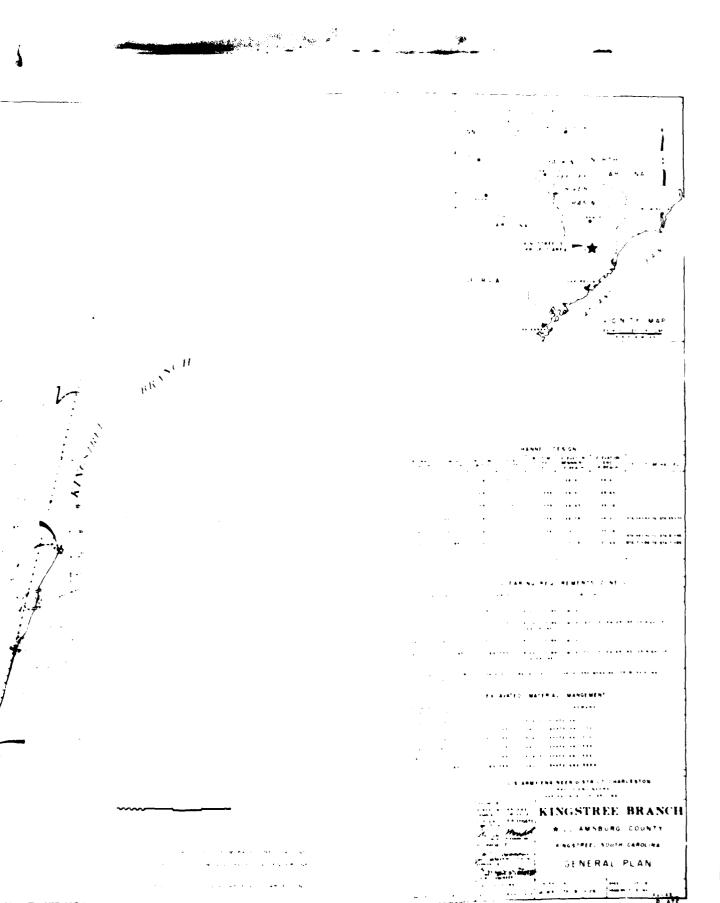
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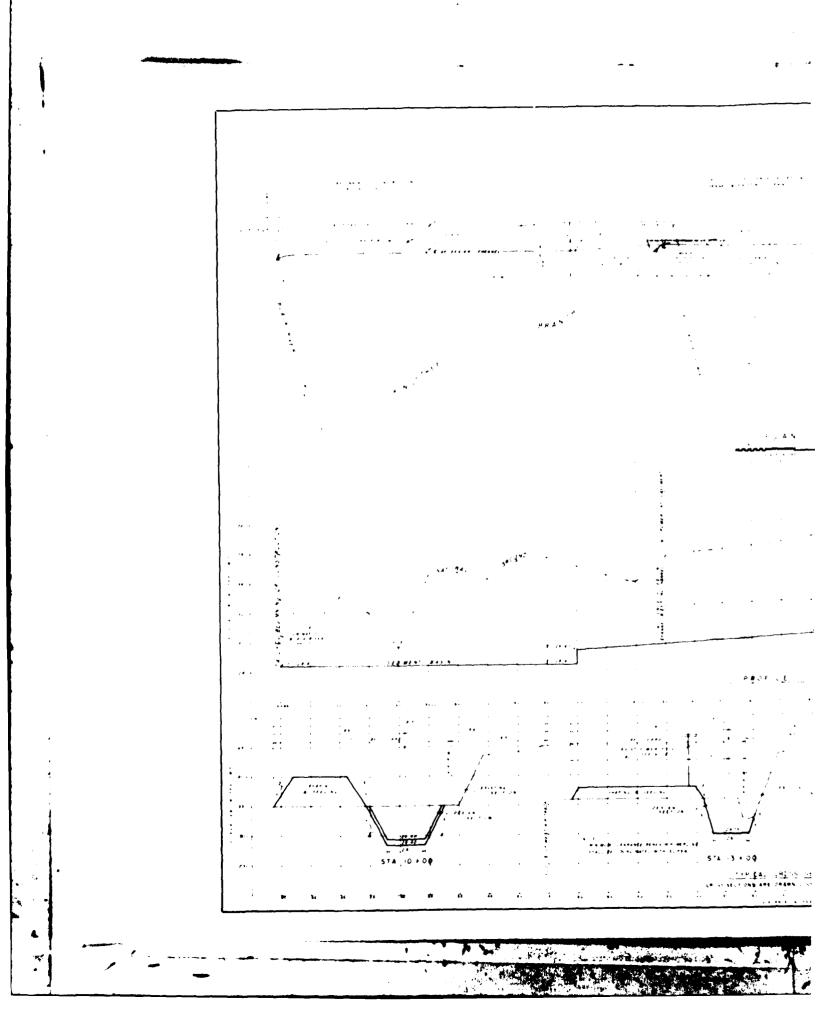
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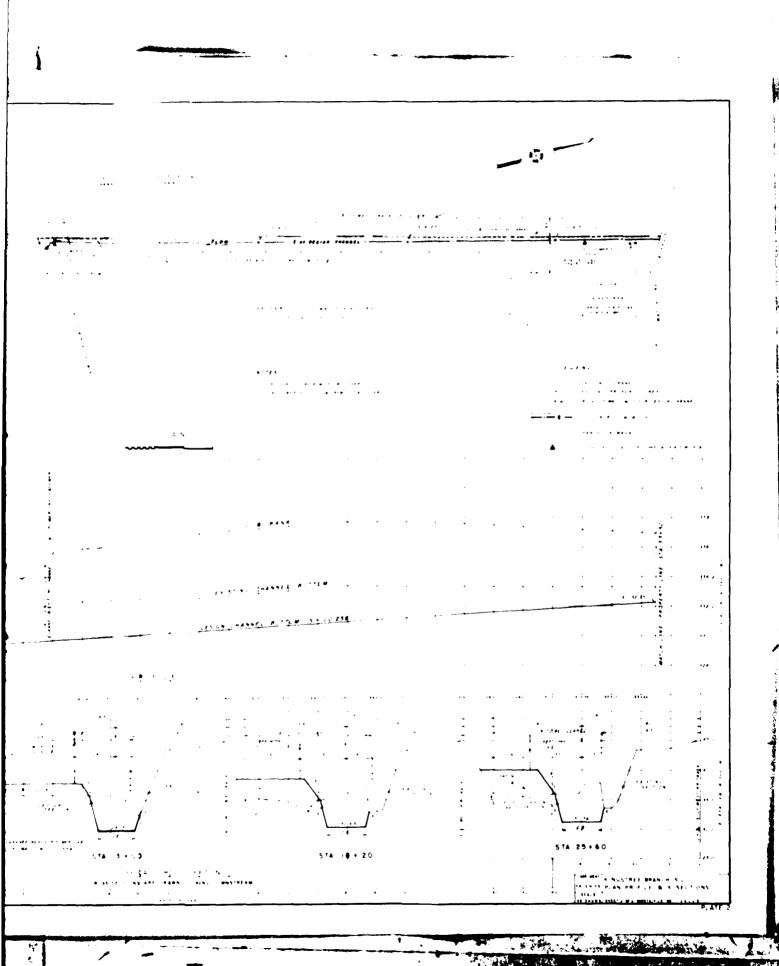


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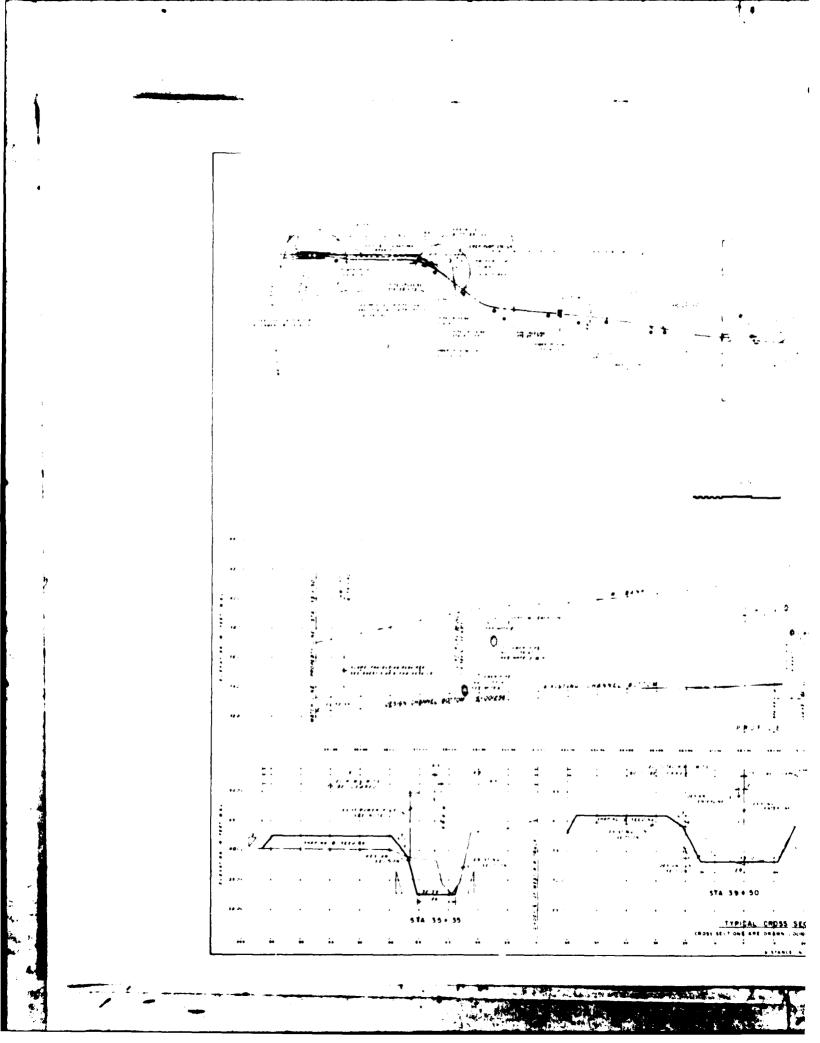


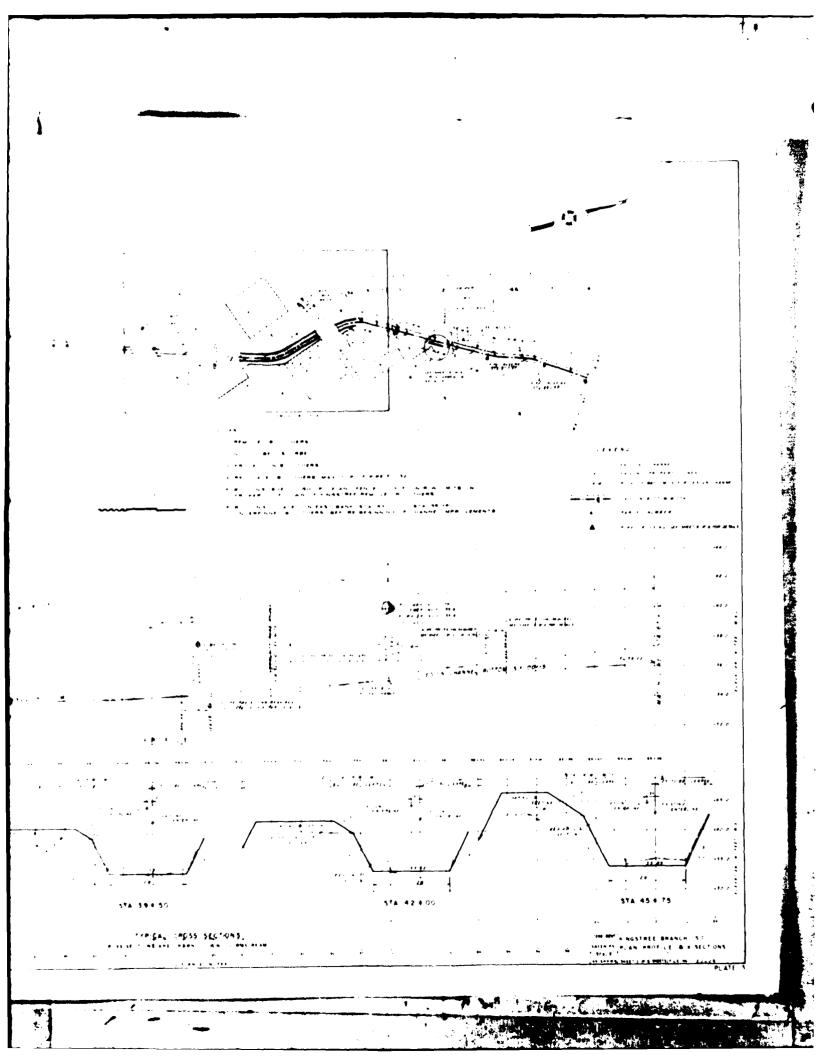
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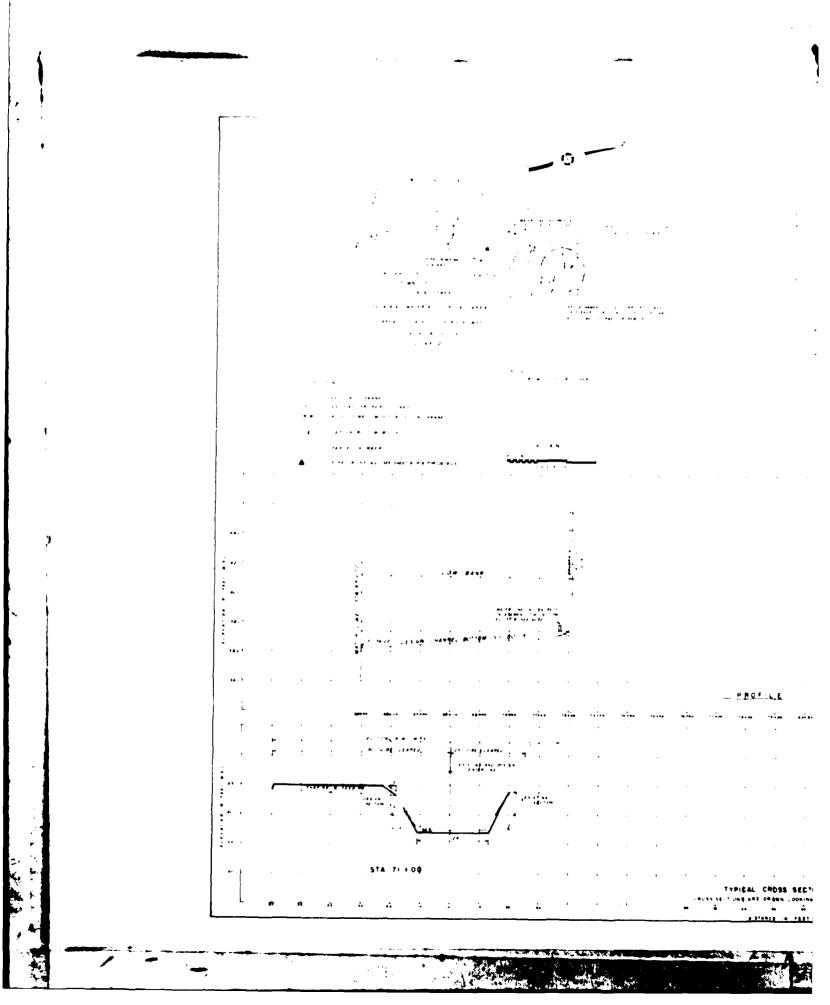


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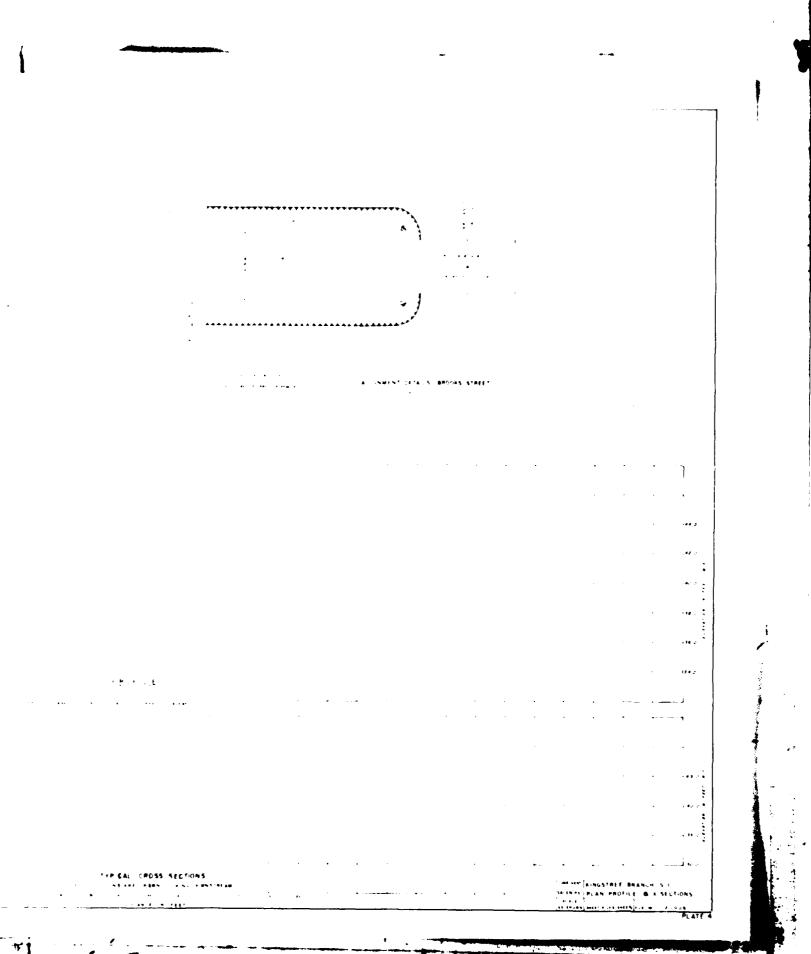
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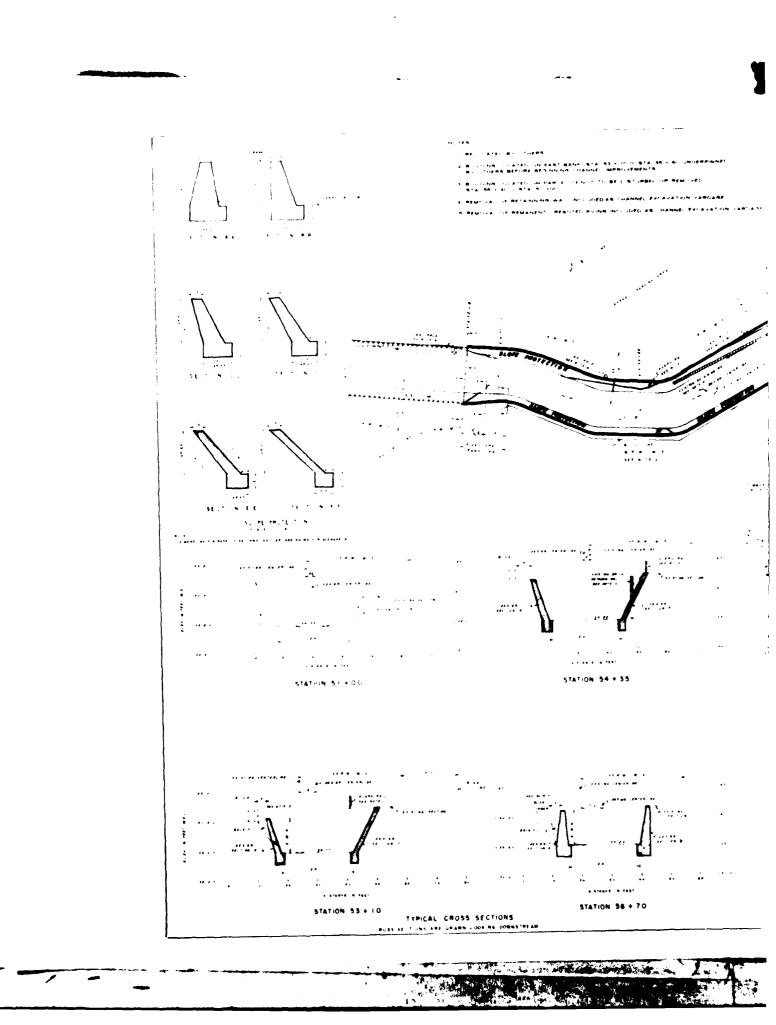


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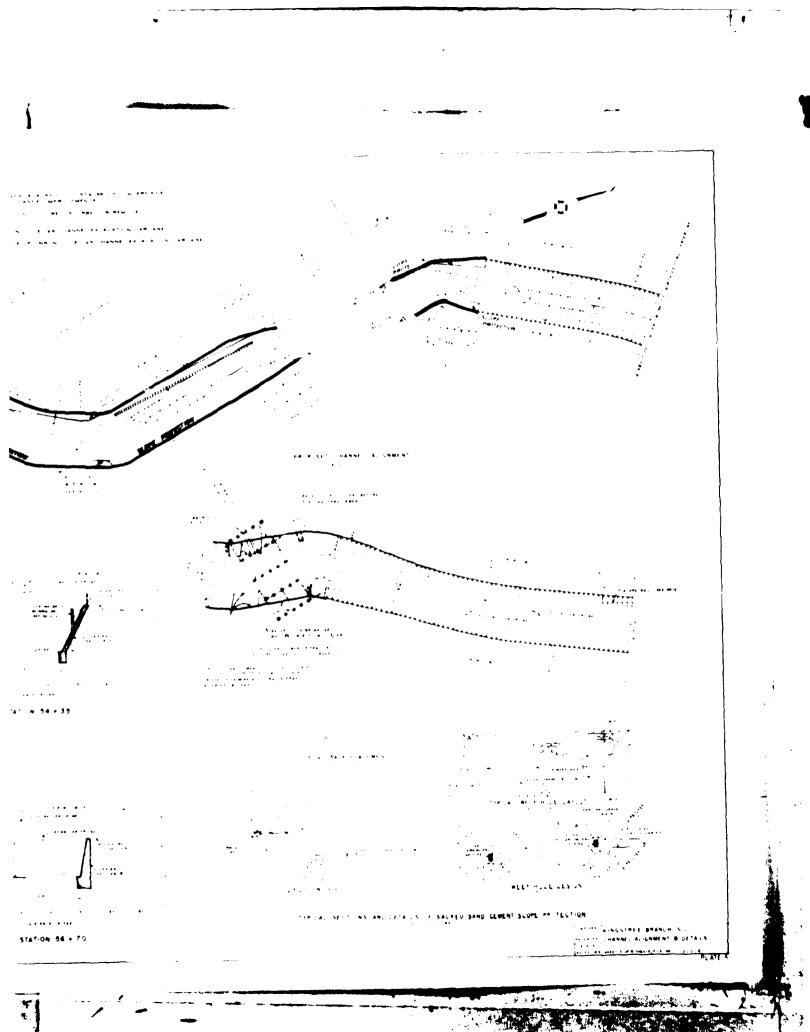
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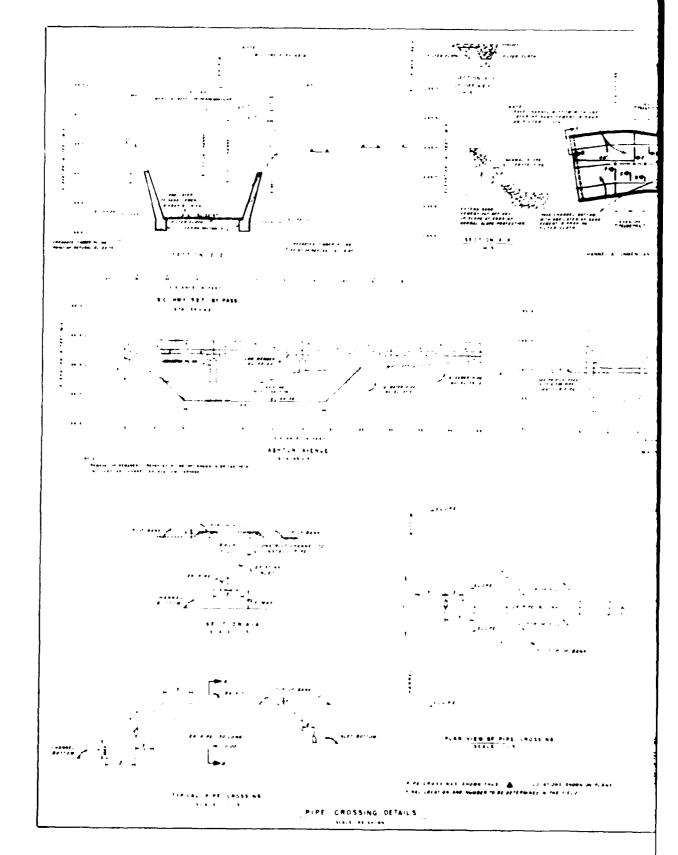


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