DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
2170 SW Canal Street
Stuart, FL 34997

REPLY TO
ATTENTION OF

22 OCT 2007

Regulatory Division
Special Projects and Enforcement Branch
SAJ-2007-5321(NW-AAZ)

Florida Department of Transportation, District 6
Attn: John Palenchar
1000 Northwest 111th Avenue
Miami, FL 33172

Dear Mr. Palenchar:

Your application for a Department of the Army permit received on August 28, 2007, has been assigned number SAJ-2007-5321(NW-AAZ). A review of the information and drawings provided shows the proposed work is to maintenance dredge and place fabric formed concrete in the C-103 and C-103N Canals. In the C-103 Canal, approximately 222 cubic yards of material would be removed from 0.106 acres of the canal and 136 cubic yards of fabric formed concrete would be placed along the canal banks and side slopes. In the C-103N Canal, approximately 260 cubic yards of material would be removed from 0.114 acres of the canal and 132 cubic yards of fabric formed concrete would be placed along the canal banks and side slopes. Two new outfalls/headwalls would be installed in each of the canals. The work is to support the reconstruction of approximately 1.7 miles of State Road 5/U.S. Highway 1 from 304th Street/Kings Highway to SW 264th Street/Bauer Drive in Miami-Dade County. The project is located adjacent to State Road 5/U.S. Highway 1 in the C-103 and the C-103N Canals, Sections 33, 34, 4, 5, and 8; Townships 56 and 57 South, Range 39 East, Miami-Dade County, Florida.

Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) Number 3 for the maintenance dredge, 7 for the new outfall structures, and 13 for the bank stabilization. In addition, project specific conditions have been enclosed. This verification is valid until _____. Please access the U.S. Army Corps of Engineers' Jacksonville District's Regulatory web address at http://www.saj.usace.army.mil/permit/permitting/nwp.htm to access

web links to view the Final Nationwide Permits, Federal Register Vol. 72, dated March 12, 2007, the Corrections to the Final Nationwide Permits, Federal Register Vol. 72, dated May 8, 2007, and the List of Regional Conditions. These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 3, 7, and 13. Additionally, enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. **Self-Certification:** Within 60 days of completion of the authorized work or at the expiration of the construction window of this permit, whichever occurs first, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form (Attachment 1) and submit to the Corps. In the event that the completed work deviates, in any manner, from the authorized work, the Permittee shall describe, on the Self-Certification Form, the deviations between the work authorized by the permit and the work as constructed. Please note that the description of any deviations on the Self-Certification Form does not constitute approval of any deviations by the Corps.

2. The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the U.S. Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

3. **Cultural Resources:** No structure or work shall adversely affect or disturb properties listed in the National Register of Historic Places or those eligible for inclusion in the National Register. Prior to the start of work, the Permittee or other

party on the Permittee's behalf, shall conduct a search in the National Register Information System (NRIS). Information can be found at; http://www.cr.nps.gov/nr/research/nris.htm. Information on properties eligible for inclusion in the National Register can be identified by contacting the Florida Master File Office by email at fmsfile@dos.state.fl.us or by telephone at 850-245-6440.

If unexpected cultural resources are encountered at any time within the project area that was not the subject of a previous cultural resource assessment survey, work should cease in the immediate vicinity of such discoveries. The permittee, or other party, should notify the SHPO immediately, as well as the appropriate Army Corps of Engineers office. After such notifications, project activities should not resume without verbal and/or written authorization from the SHPO.

If unmarked human remains are encountered, all work shall stop immediately, and the proper authorities notified in accordance with Section 872.05, Florida Statutes, unless on Federal lands. After such notifications, project activities on non-Federal lands shall not resume without verbal and/or written authorization from the Florida State Archaeologist for finds under his or her jurisdiction.

4. **Erosion Control:** Prior to the initiation of any work authorized by this permit, the Permittee shall install erosion control measures along the perimeter of all work areas to prevent the displacement of fill material. Immediately after completion of the final grading of the land surface, all slopes, land surfaces, and filled areas adjacent to wetlands shall be stabilized using sod, degradable mats, or a combination of similar stabilizing materials to prevent erosion. The erosion control measures shall remain in place and be maintained until all authorized work has been completed and the site has been stabilized.

5. **Endangered Species:** To meet the requirements of Section 7 of the Endangered Species Act, the Permittee shall achieve the following conditions:

a. The permittee agrees to abide by the attached Standard Manatee Construction Conditions designed to protect the endangered West Indian manatee during all in-water activities.

b. The permittee agrees to install manatee grates on the outfall structures in accordance with the attached drawings.

This letter of authorization does not obviate the necessity to obtain any other Federal, State, or local permits, which may be required. In Florida, projects qualifying for this NWP must be authorized under Part IV of Chapter 373 by the Department of Environmental Protection, a water management district under §. 373.069, F.S., or a local government with delegated authority under §. 373.441, F.S., and receive Water Quality Certification (WQC) and Coastal Zone Consistency Concurrence (CZCC) (or a waiver), as well as any authorizations required by the State for the use of sovereignty submerged lands. You should check State-permitting requirements with the Florida Department of Environmental Protection or the appropriate water management district.

This letter does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact Alisa Zarbo by telephone at 772-219-8418, by fax at 772-219-9162 or by email at Alisa.A.Zarbo@saj02.usace.army.mil.

This letter contains an approved jurisdictional determination. Enclosed you will find the approved jurisdictional determination form and a Notification of Appeal Process fact sheet and Request for Appeal (RFA) form. If you object to this determination, you may request an administrative appeal under Corps' regulations at 33 CFR Part 331. If you request to appeal this determination, you must submit a completed RFA form to the South Atlantic Division Office at the following address:

Mr. Michael F. Bell
South Atlantic Division
U.S. Army Corps of Engineers
CESAD-CM-CO-R, Room 9M15
60 Forsyth St., SW.
Atlanta, Georgia 30303-8801.

Mr. Bell can be reached by telephone number at 404-562-5137, or by facsimile at 404-562-5138.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division office within 60 days of the date of the RFA. Should you decide to submit an RFA form, it must be received at the above address by _____.

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to take a few minutes to visit the following link and complete our automated Customer Service Survey: http://per2.nwp.usace.army.mil/survey.html. Your input is appreciated - favorable or otherwise.

Sincerely,

Bob Basson
for Paul L. Grosskruger
Colonel, U.S. Army
District Engineer

Enclosures

Copies Furnished:
CESAJ-RD-PE

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: NW 3, 7, and 13
Application Number: SAJ-2007-5321

Permittee's Name & Address (please print or type): _____

_____

_____

Telephone Number: _____

Location of the Work: _____

_____

Date Work Started: _____ Date Work Completed: _____

Description of the Work (e.g., bank stabilization, residential or commercial filling, docks, dredging, etc.): _____

_____

_____

Acreage or Square Feet of Impacts to Waters of the United States: _____

Describe Mitigation completed (if applicable): _____

_____

_____

Describe any Deviations from Permit (attach drawing(s) depicting the deviations): _____

_____

****

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

_____
Signature of Permittee

_____
Date

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: SAJ-2007-5321

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Branch, Post Office Box 4970, Jacksonville, FL 32232-0019.

_____ _____
(TRANSFEREE-SIGNATURE) (SUBDIVISION)

_____ _____ _____
(DATE) (LOT) (BLOCK)

_____ _____
(NAME-PRINTED) (STREET ADDRESS)

_____

_____
(MAILING ADDRESS)

_____
(CITY, STATE, ZIP CODE)

GENERAL CONDITIONS
33 CFR PART 320-330
PUBLISHED FEDERAL REGISTER DATED 13 NOVEMBER 1986

1. The time limit for completing the work authorized ends on **date identified in the letter**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort of if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow a representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
SFWMD ERP PACKAGE

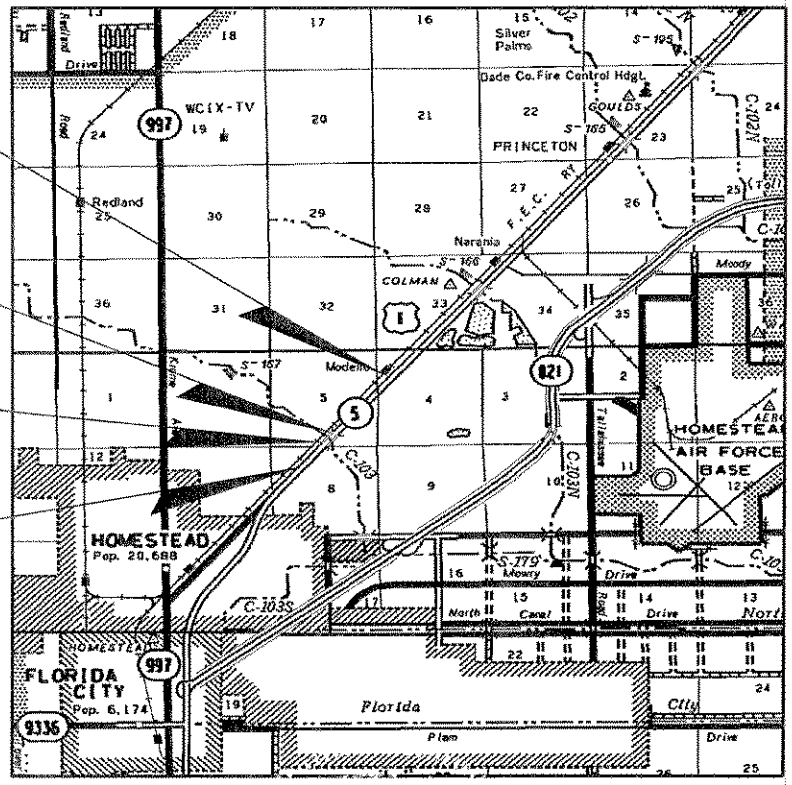
FINANCIAL PROJECT ID 410625-1-52-01
MIAMI-DADE COUNTY
STATE ROAD NO. 5

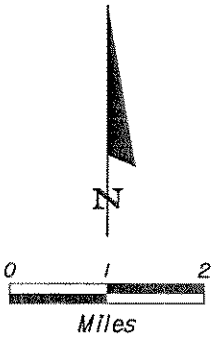
END PROJECT
STA 305+00.00
MP 5.258

END BRIDGE
STA 262+10.32

BEGIN BRIDGE
STA 261+47.32

BEGIN PROJECT
STA 218+00.00
MP 3.610





SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.	FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-1-52-01
	NAME: SAMUEL E. GONZALEZ, PE	COUNTY: MIAMI-DADE
TWP: 56 RNG: 39 SEC: 5	SIGNATURE:	DER / CG / SHEET No.: 1 OF 10
PURPOSE: LOCATION MAP	CERTIFICATE No.: 49513 DATE: 8/19/2007	COE / WMD / DATE: 8/19/2007

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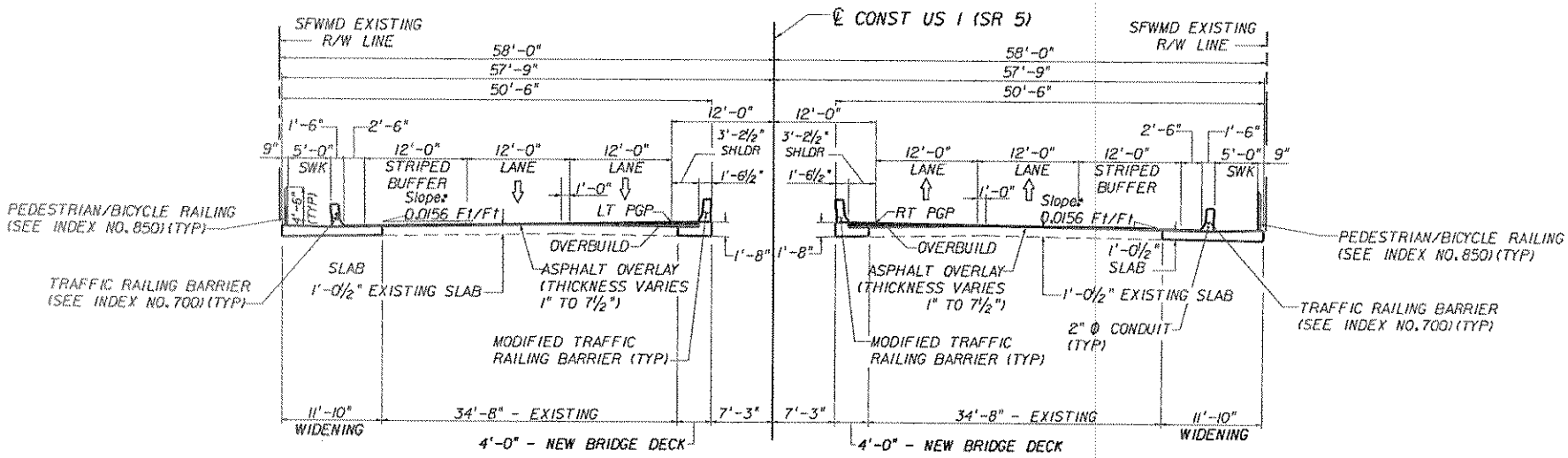

SOUTHBOUND
BRIDGE No. 870010

NORTHBOUND
BRIDGE No. 870228

BRIDGE TYPICAL SECTION
SR 5 / US-1 (SOUTH DIXIE HWY)
OVER C-103 CANAL

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.	FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-1-52-01	
	NAME: SAMUEL L. GONZALEZ, PE	COUNTY: MIAMI-DADE	
TWP: 56 RNG: 39 SEC: 5	SIGNATURE:	DER / CG	SHEET No.: 2 OF 10
PURPOSE: C-103 CANAL BRIDGE TYPICAL SECTION	CERTIFICATE No.: 49513 DATE: 8/19/2007	COE / WMD	DATE: 8/19/2007

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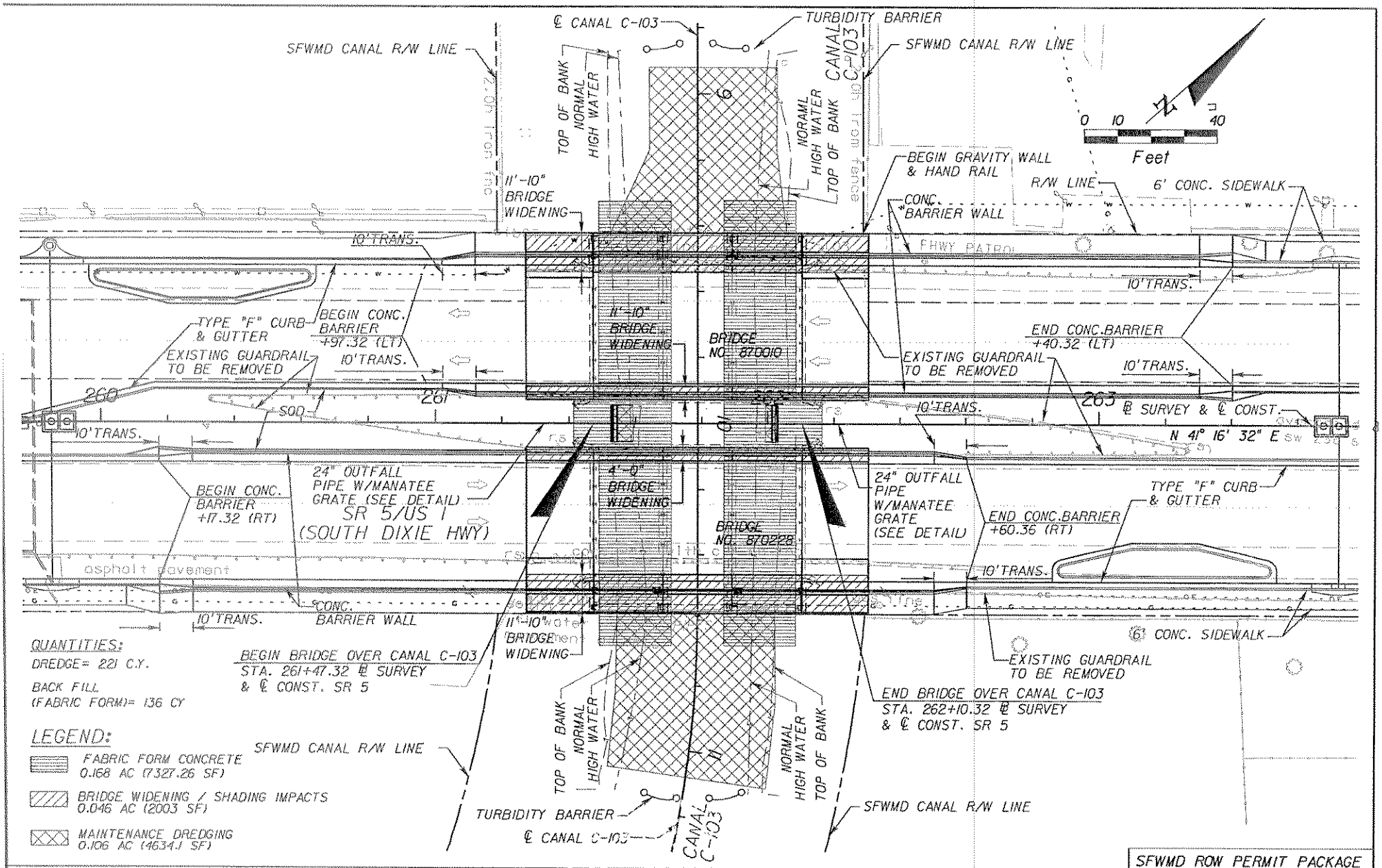

QUANTITIES:

DREDGE= 221 C.Y.

BACK FILL (FABRIC FORM)= 136 CY

LEGEND:

- FABRIC FORM CONCRETE 0.168 AC (7327.26 SF)
- BRIDGE WIDENING / SHADING IMPACTS 0.046 AC (2003 SF)
- MAINTENANCE DREDGING 0.106 AC (4634.1 SF)

SFWMD ROW PERMIT PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST TO SW 284th ST.	FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-1-52-01	
	NAME: SAMUEL E. GONZALEZ, P.E.	COUNTY: MIAMI-DADE	
TWP: 56 RNG: 39 SEC: 5	SIGNATURE:	DER / CG	SHEET No.: 3 OF 10
PURPOSE: CANAL C-103 PLAN VIEW	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE / WMD	DATE: 8/20/2007

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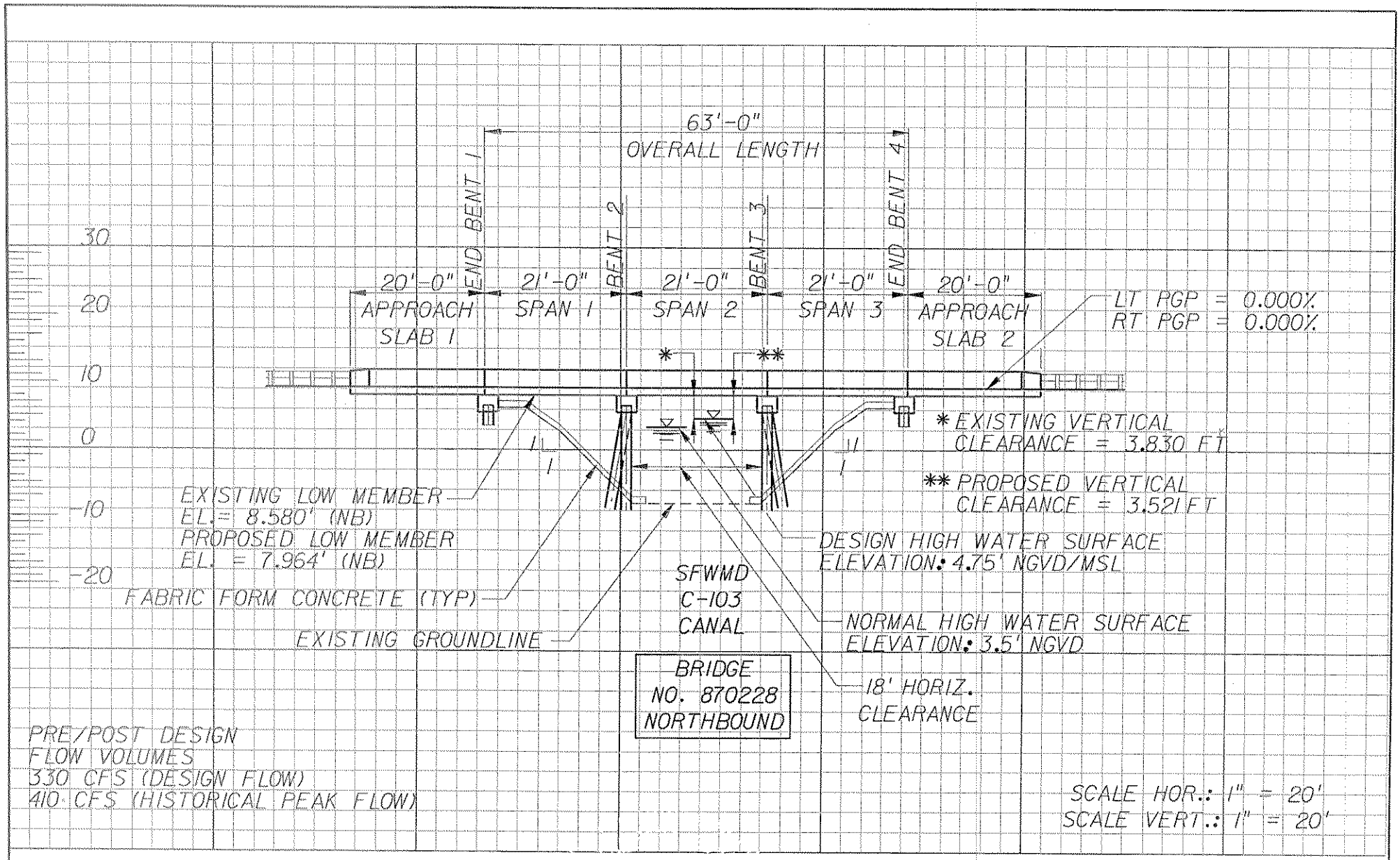

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.	FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-1-52-01
	NAME: SAMUEL E. GONZALEZ, PE	COUNTY: MIAMI-DADE
TWP: 56 RNG: 39 SEC: 5	SIGNATURE:	DER / CG / SHEET No.: 4 OF 10
PURPOSE: CANAL C-103 NB BRIDGE ELEVATION VIEW	CERTIFICATE No.: 49513 DATE: 8/19/2007	COE / WMD / DATE: 8/19/2007

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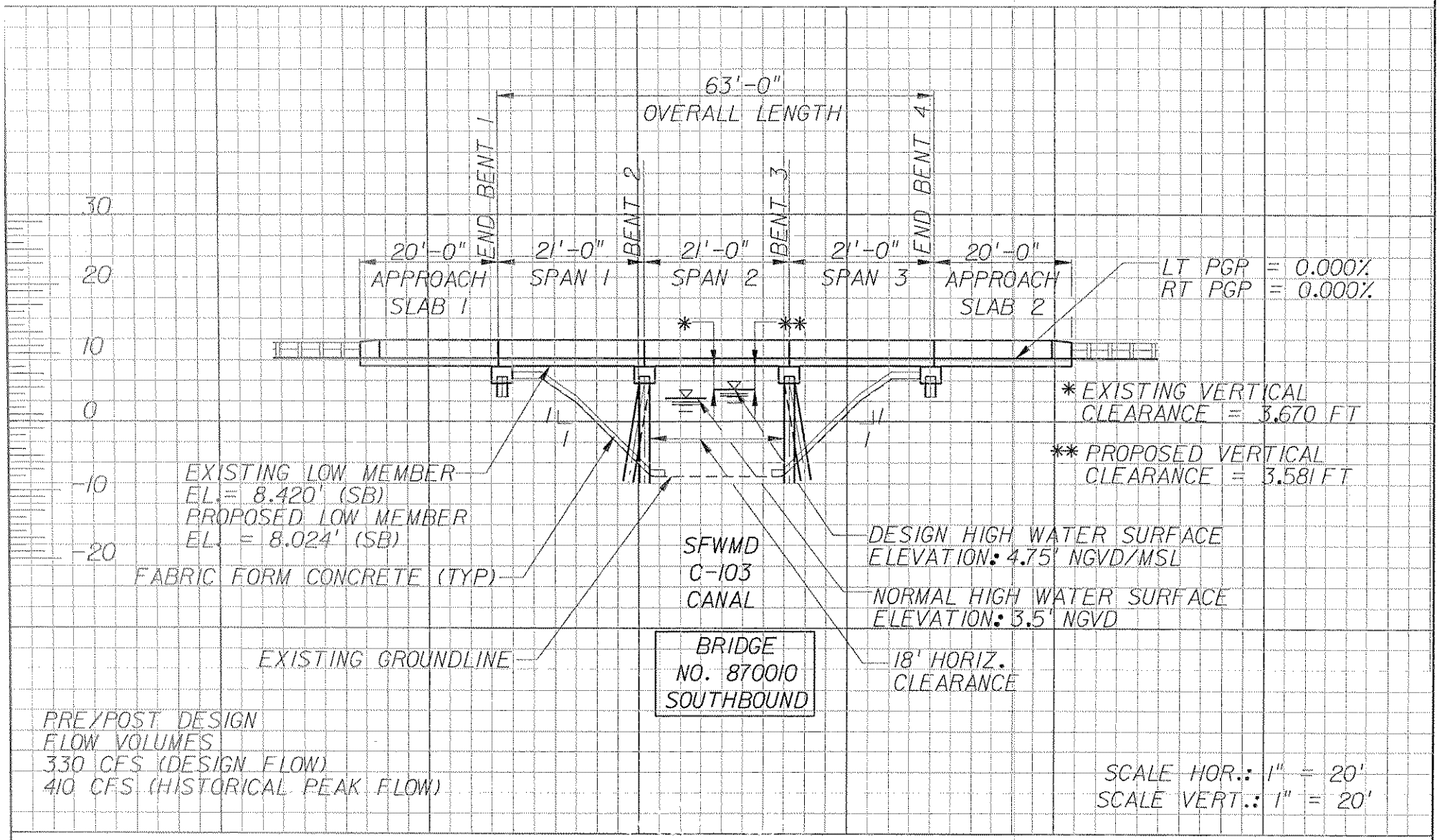

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.	FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-1-52-01
	NAME: SAMUEL E. GONZALEZ, P.E.	COUNTY: MIAMI-DADE
TWP: 56 RNG: 39 SEC: 5	SIGNATURE:	DER / CG / SHEET No.: 5 OF 10
PURPOSE: CANAL C-103 SB BRIDGE ELEVATION VIEW	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE / WMD / DATE: 8/20/2007

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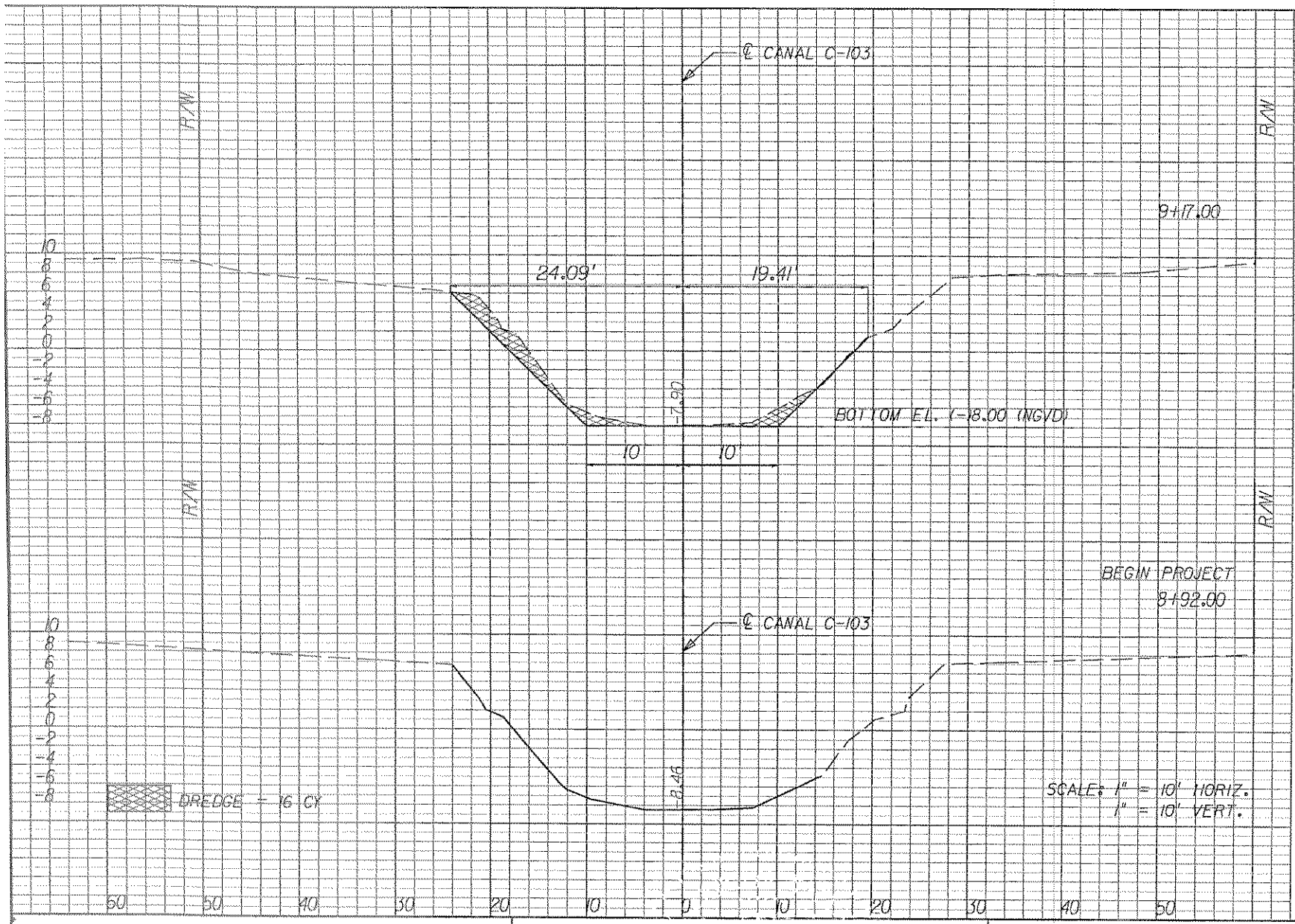

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SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.

TWP: 56 RNG: 39 SEC: 5

PURPOSE: CANAL C - 103 CROSS-SECTIONS

FLORIDA DEPARTMENT OF TRANSPORTATION

NAME: SAMUEL E. GONZALEZ, PE

SIGNATURE:

CERTIFICATE No.: 49513 DATE: 8/20/2007

PROJECT I.D. No.: 410625-1-52-01

COUNTY: MIAMI-DADE

DER	CG	SHEET No.: 6 OF 10
COE	WMD	DATE: 8/20/2007

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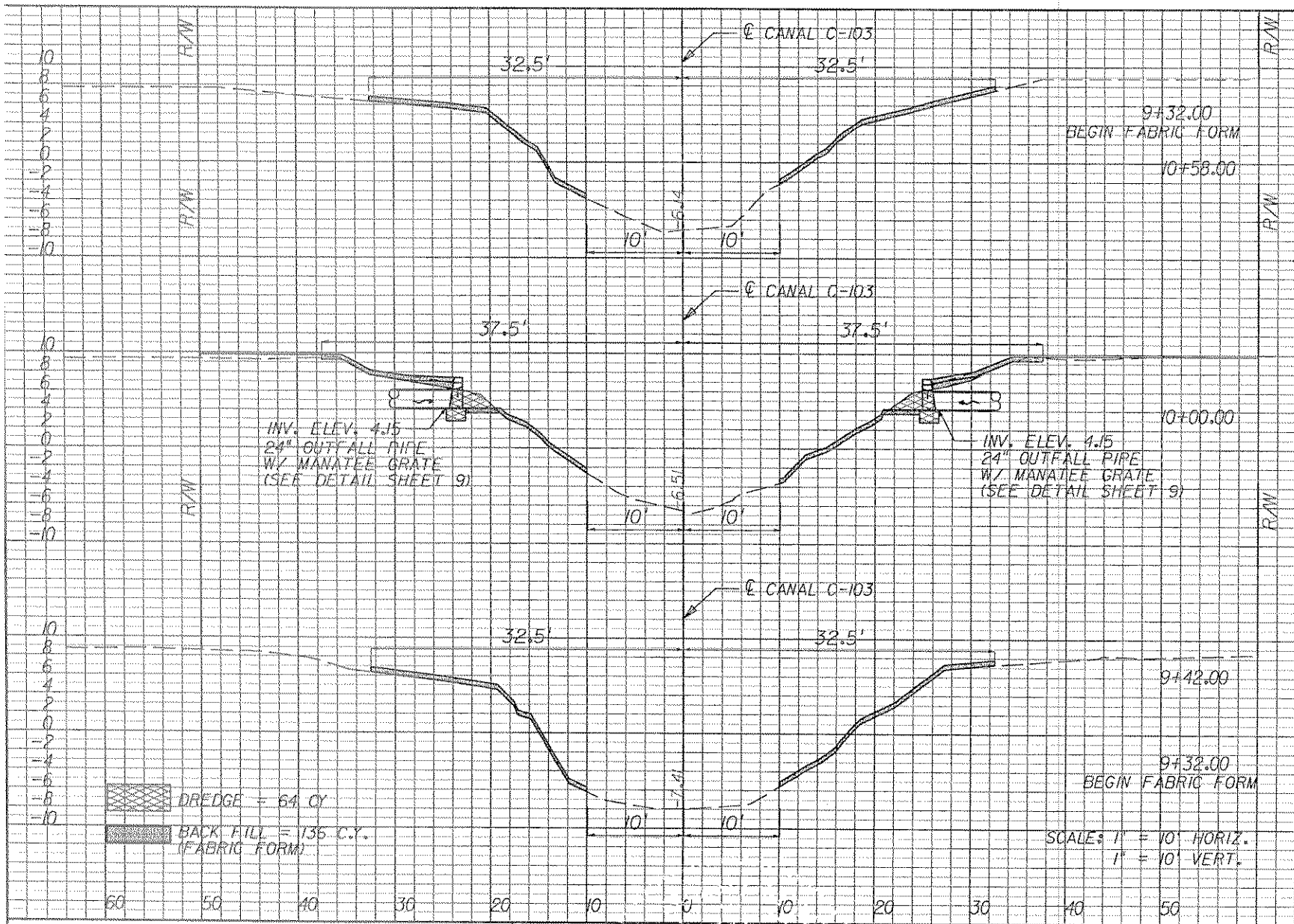

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SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.	FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-1-52-01
	NAME: SAMUEL E. GONZALEZ, PE	COUNTY: MIAMI-DADE
TWP: 56 RNG: 39 SEC: 5	SIGNATURE:	DER / CG / SHEET No.: 7 OF 10
PURPOSE: CANAL C - 103 CROSS-SECTIONS	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE / WMD / DATE: 8/20/2007

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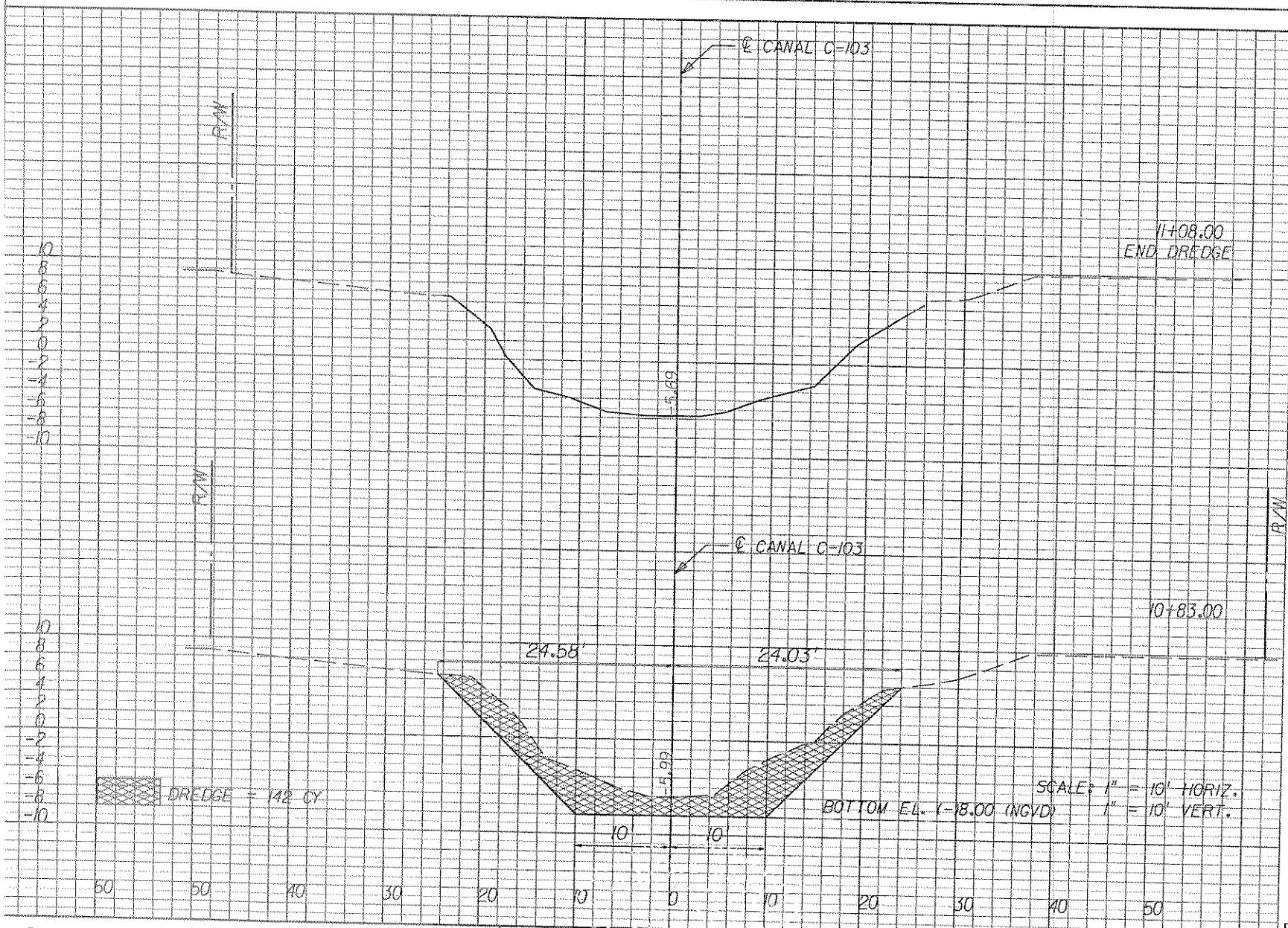

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	71		

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.

TWP: 56 RNG: 39 SEC: 5

PURPOSE: CANAL C - 103 CROSS-SECTIONS

FLORIDA DEPARTMENT OF TRANSPORTATION

NAME: SAMUEL E. GONZALEZ, PE

SIGNATURE:

CERTIFICATE No.: 49513 DATE: 8/20/2007

PROJECT I.D. No.: 410625-1-52-01

COUNTY: MIAMI-DADE

DER	CG	SHEET No.: 8 OF 10
COE	WMD	DATE: 8/20/2007

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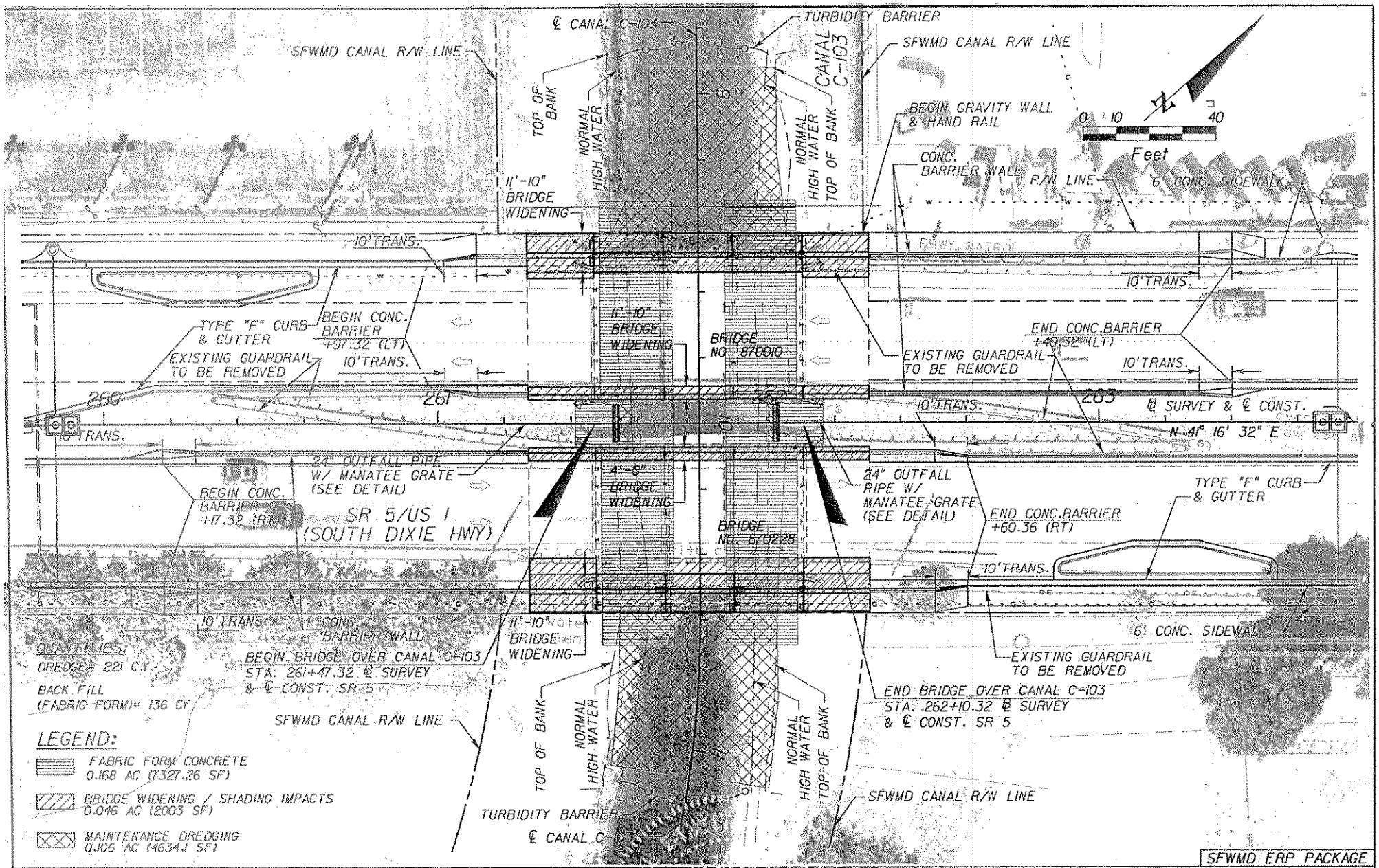

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.	FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-1-52-01
	NAME: SAMUEL E. GONZALEZ, PE	COUNTY: MIAMI-DADE
TWP: 56 RNG: 39 SEC: 5	SIGNATURE:	DER / CG / SHEET No.: 9 OF 10
PURPOSE: CANAL C - 103 PLAN VIEW WITH AERIAL	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE / WMD / DATE: 8/20/2007

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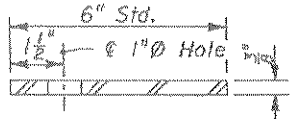
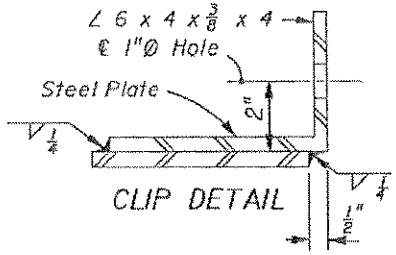


SECTION - STEEL PLATE



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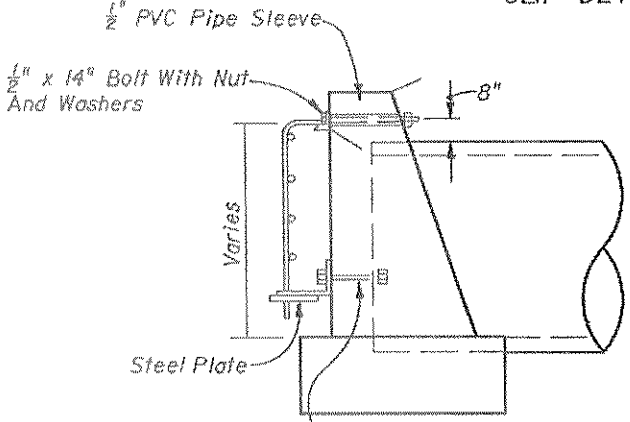
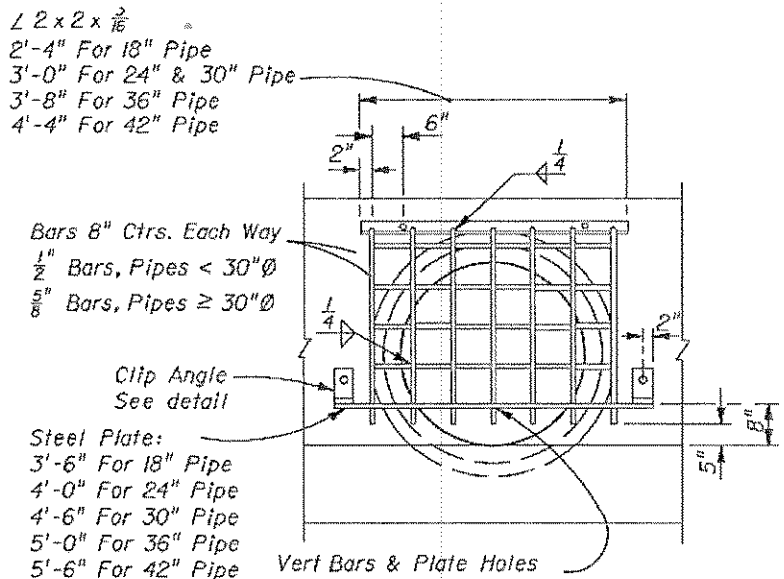


SIDE VIEW



Pipe Dia.	18"	24"	30"	36"	42"
Grate (Lbs.)	48	58	74	90	111

FRONT VIEW

Note: Guards to be constructed only at locations specifically called for in plans. Guard, plate & clips, bolts, nuts and sleeves to be included in the contract unit price for Reinforcing Steel (Miscellaneous).

GUARD AT PIPE ENDS (MANATEE GRATE)

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 304th ST. TO SW 284th ST.	FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-1-52-01		
	NAME: SAMUEL E. GONZALEZ, PE	COUNTY: MIAMI-DADE		
TWP: 56 RNG: 39 SEC: 5	SIGNATURE:	DER	CG	SHEET No.: 10 OF 10
PURPOSE: MANATEE GRATE DETAILS	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE	WMD	DATE: 8/20/2007

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
SFWMD ERP PACKAGE

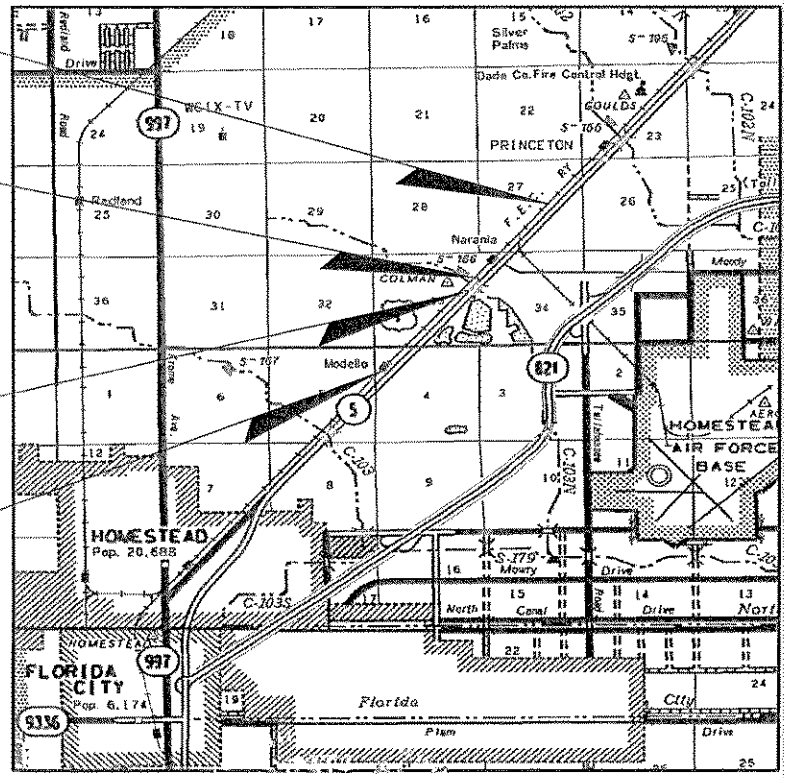
FINANCIAL PROJECT ID 410625-2-52-01
MIAMI-DADE COUNTY
STATE ROAD NO. 5

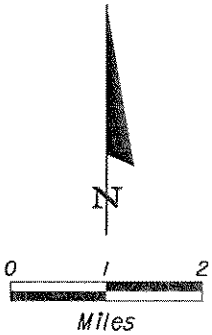
END PROJECT
STA 395+14.59
MP 6.965

END BRIDGE
STA 374+04.68

BEGIN BRIDGE
STA 372+92.68

BEGIN PROJECT
STA 305+00.00
MP 5.258





SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE
TWP: 55 RNG: 39 SEC: 33		DER / CG / SHEET No.: 1 OF 10
PURPOSE: LOCATION MAP	CERTIFICATE No.: 49513 DATE: 8/19/2007	COE / WMD / DATE: 8/19/2007

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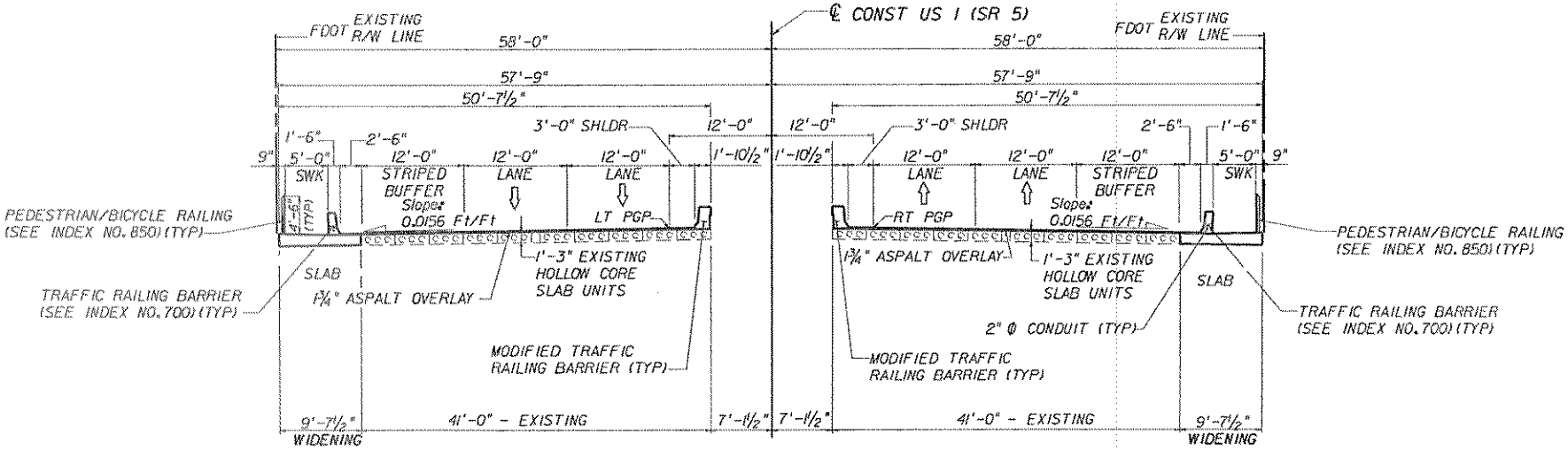

SOUTHBOUND
BRIDGE No. 870017

NORTHBOUND
BRIDGE No. 870240

BRIDGE TYPICAL SECTION
SR 5 / US-1 (SOUTH DIXIE HWY)
OVER C-103N CANAL

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE
TWP: 55 RNG: 39 SEC: 33		DER / CG / SHEET No.: 2 OF 10
PURPOSE: C-103 N BRIDGE TYPICAL SECTION	CERTIFICATE No.: 49513 DATE: 8/19/2007	COE / WMD / DATE: 8/19/2007

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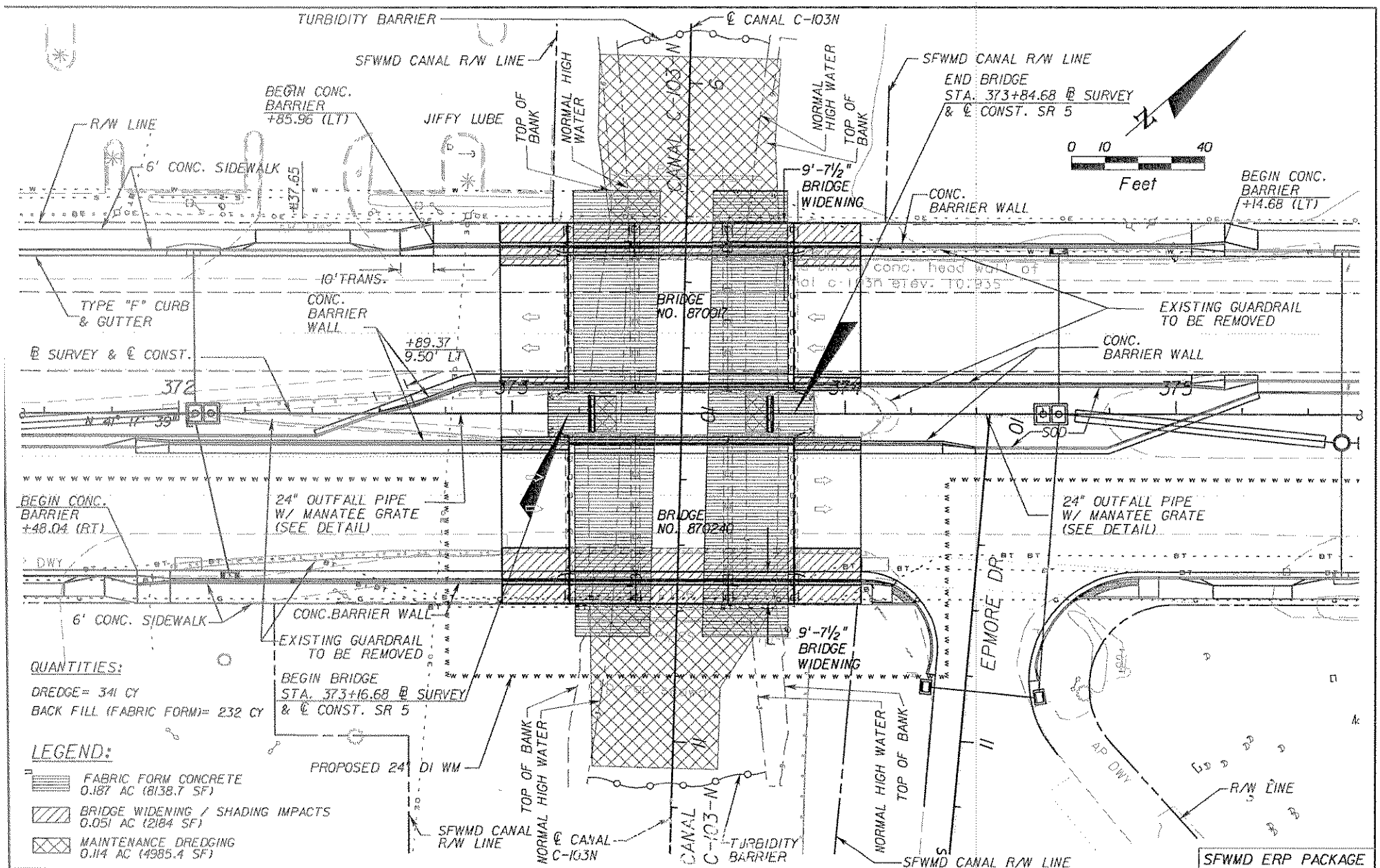

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01	
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE	
TWP: 55 RNG: 39 SEC: 33		DER	CG	SHEET No.: 3 OF 10
PURPOSE: CANAL C - 103 N PLAN VIEW	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE	WMD	DATE: 8/20/2007

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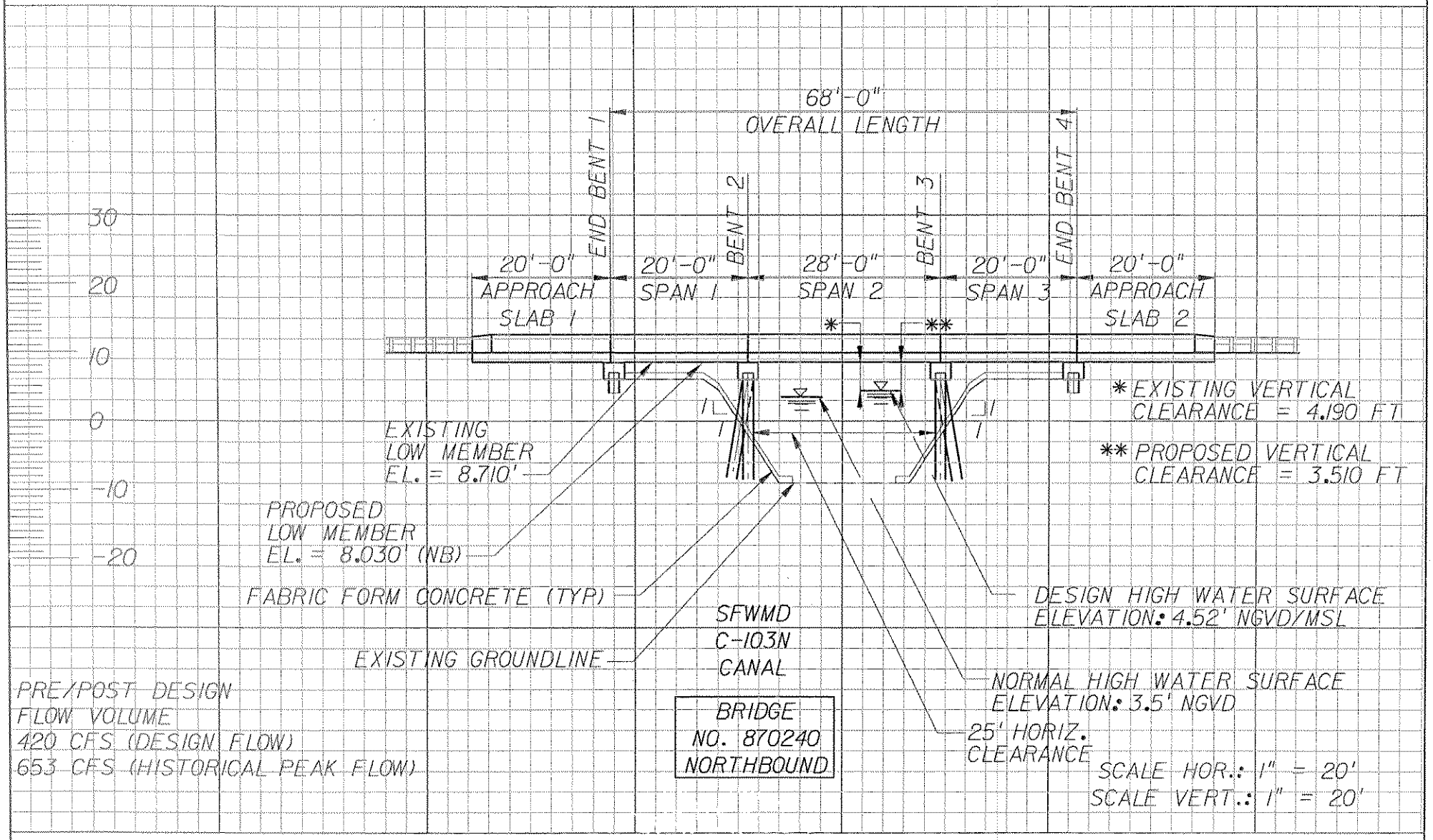

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE
TWP: 55 RNG: 39 SEC: 33		DER / CG / SHEET No.: 4 OF 10
PURPOSE: CANAL C-103 N BRIDGE ELEVATION VIEW	CERTIFICATE No.: 45513 DATE: 8/19/2007	COE / WMD / DATE: 8/19/2007

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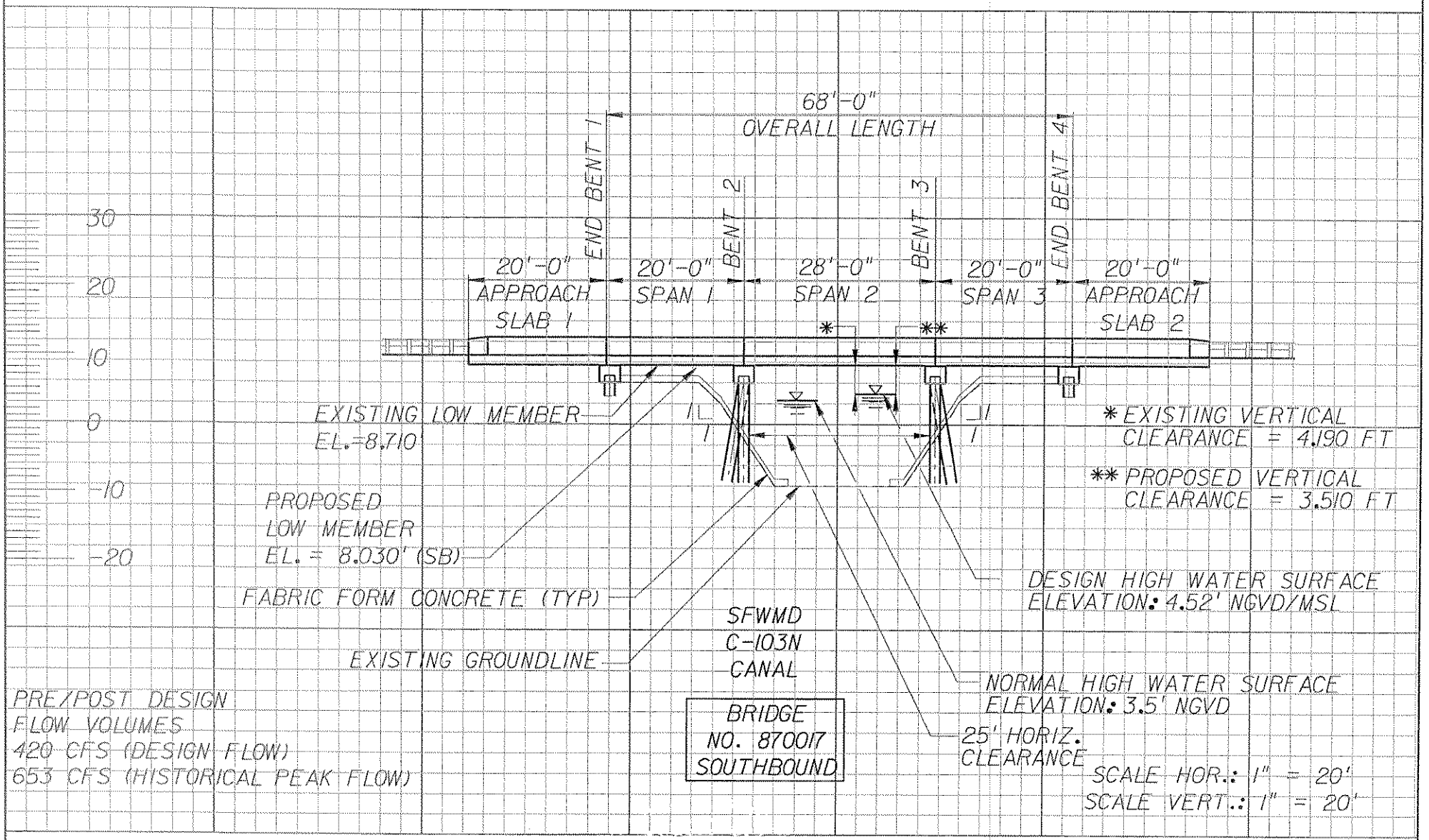

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE
TWP: 55 RNG: 39 SEC: 33		DER / CG / SHEET No.: 5 OF 10
PURPOSE: CANAL C-103 N BRIDGE ELEVATION VIEW	CERTIFICATE No.: 49513 DATE: 8/19/2007	COE / WMD / DATE: 8/19/2007

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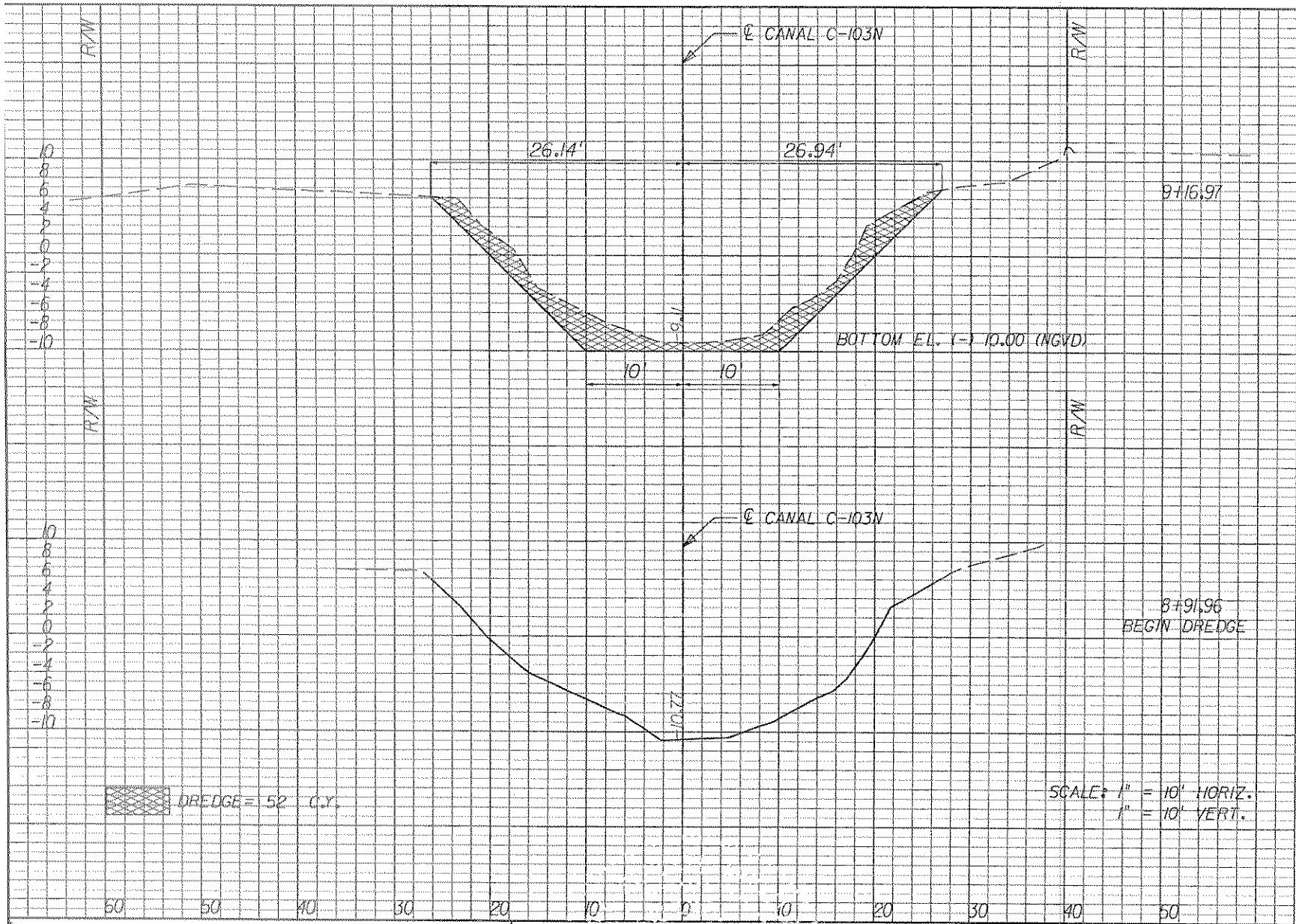

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
112			
	52		
0			

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01
TWP: 55 RNG: 39 SEC: 33	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE
PURPOSE: CANAL C - 103 N CROSS-SECTIONS	CERTIFICATE No.: 49313 DATE: 8/20/2007	DER / CG / SHEET No.: 6 OF 10
		COE / WMD / DATE: 8/20/2007

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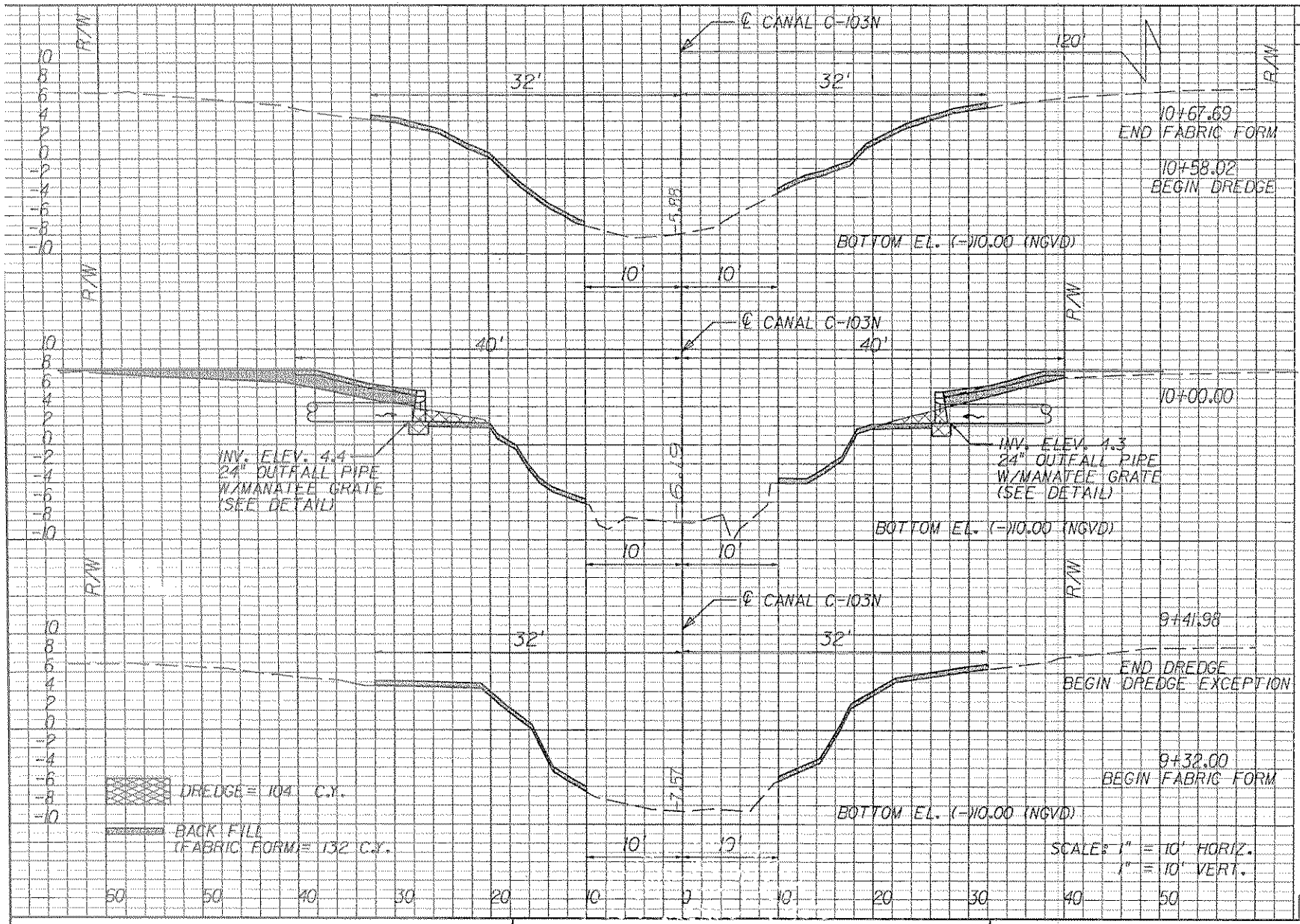

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
		22	
0			
	26		115
24		70	
	26		
			117
0			
	52		
		23	

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE
TWP: 55 RNG: 39 SEC: 33		DER / CG / SHEET No.: 7 OF 10
PURPOSE: CANAL C - 103 N CROSS-SECTIONS	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE / WMD / DATE: 8/20/2007

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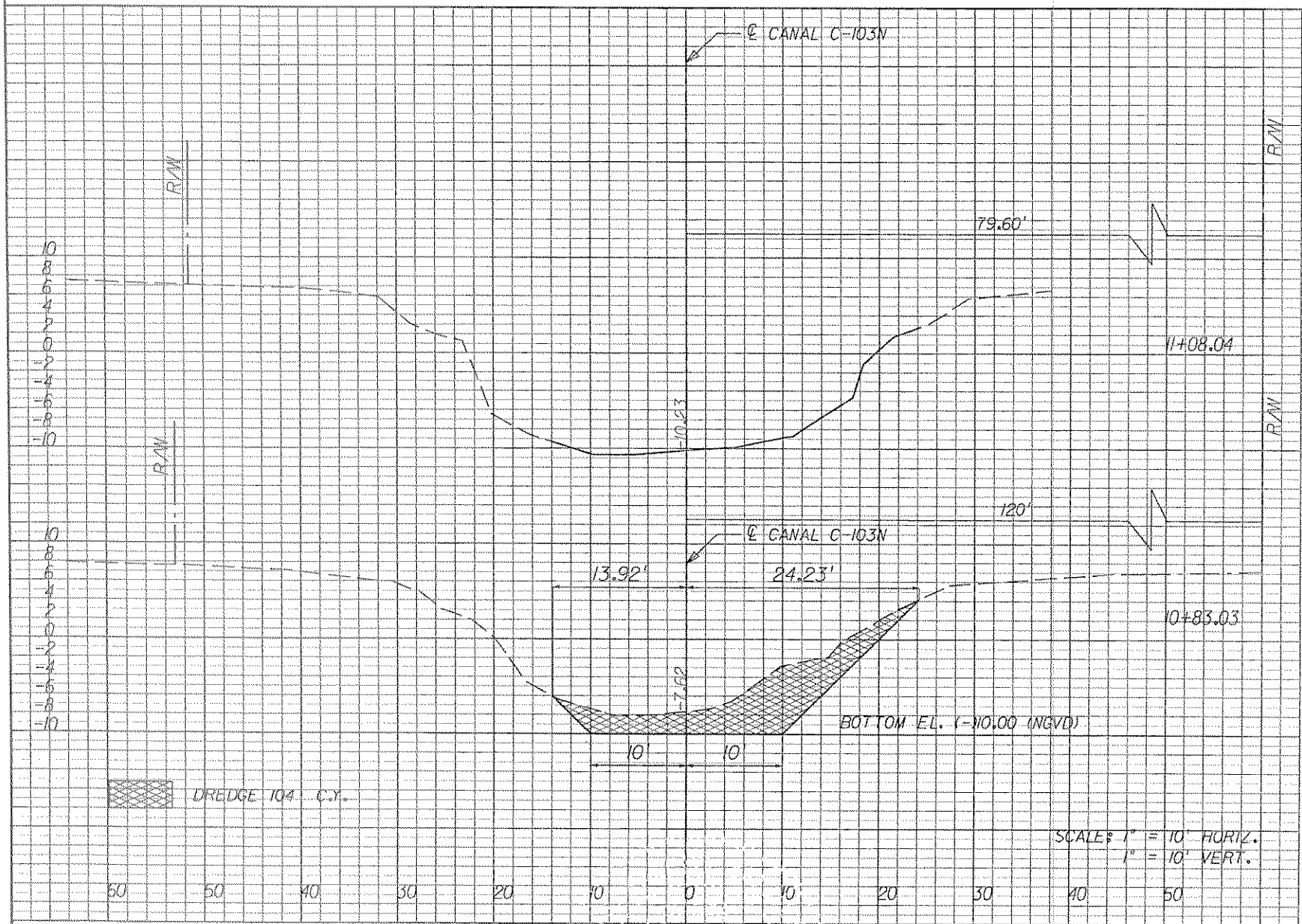

Regular Exc.		Embankment	
A	V	A	V
0			
	52		
113			
	52		

SFWMD ERP PACKAGE

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE
TWP: 55 RNG: 39 SEC: 33		DER / CG / SHEET No.: 8 OF 10
PURPOSE: CANAL C- 103 N CROSS-SECTIONS	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE / WMD / DATE: 8/20/2007

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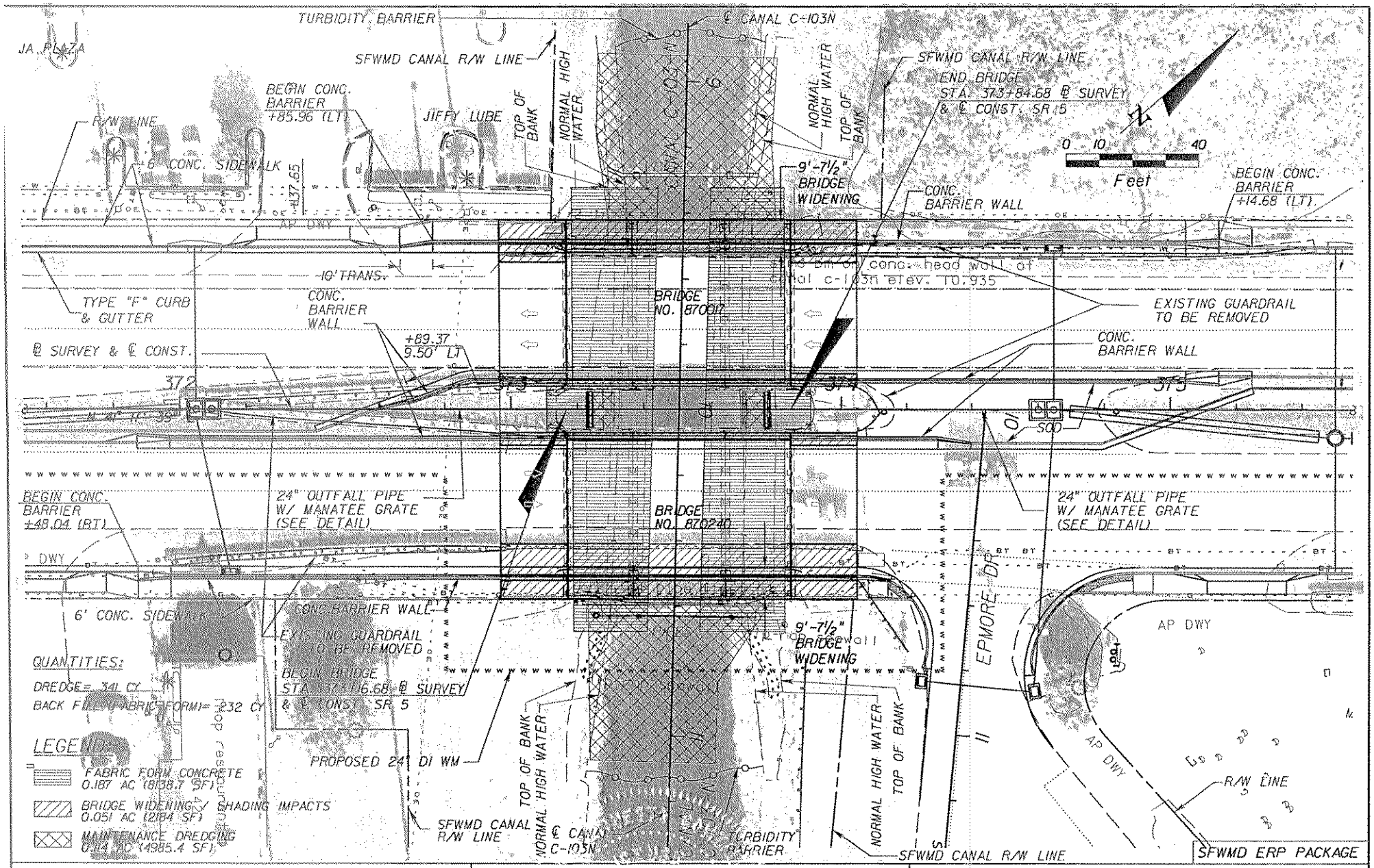

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01	
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE	
TWP: 55 RNG: 39 SEC: 33		DER	CG	SHEET No.: 9 OF 10
PURPOSE: CANAL C-103N PLAN VIEW WITH AERIAL	CERTIFICATE No.: 4953 DATE: 8/20/2007	COE	WMD	DATE: 8/20/2007

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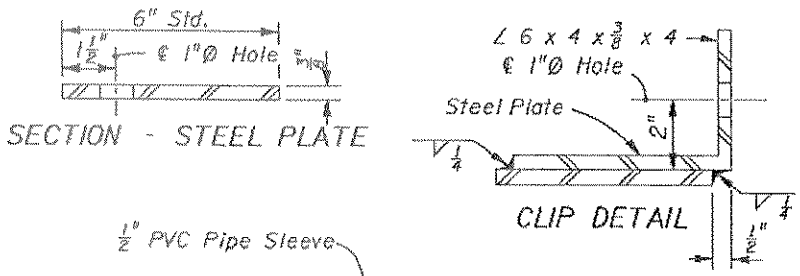
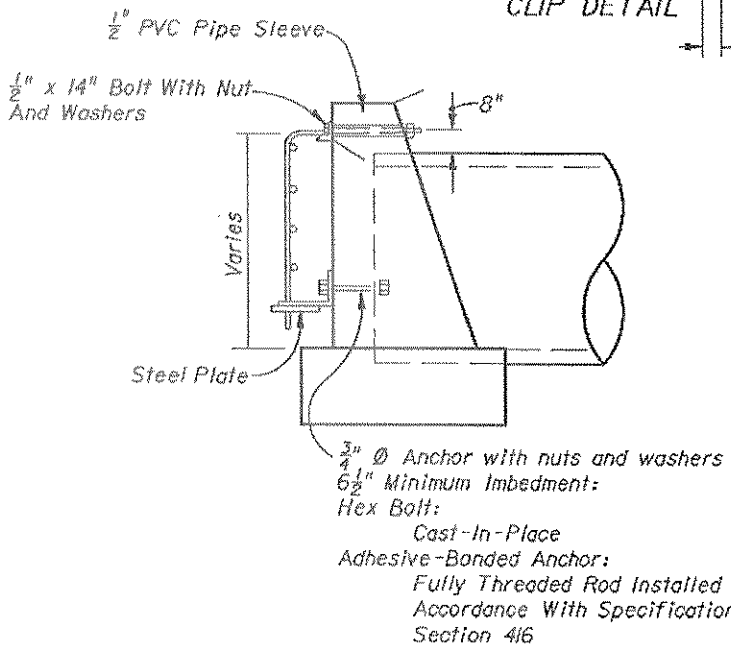
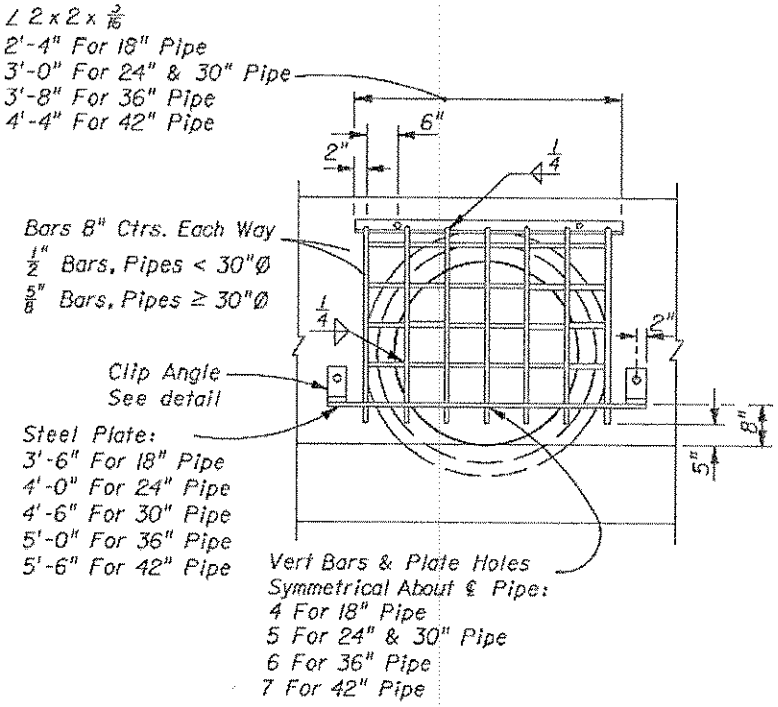




SIDE VIEW



Pipe Dia.	18"	24"	30"	36"	42"
Grate (Lbs.)	48	58	74	90	111

FRONT VIEW

Note: Guards to be constructed only at locations specifically called for in plans. Guard, plate & clips, bolts, nuts and sleeves to be included in the contract unit price for Reinforcing Steel (Miscellaneous).

GUARD AT PIPE ENDS (MANATEE GRATE)

PROJECT DESCRIPTION: SR 5 (US 1) RECONSTRUCTION FROM SW 284th ST. TO SW 266th ST.	DEPARTMENT OF TRANSPORTATION	PROJECT I.D. No.: 410625-2-52-01
	NAME: SAMUEL E. GONZALEZ, P. E.	COUNTY: MIAMI-DADE
TWP: 55 RNG: 39 SEC: 33		DER / CG / SHEET No.: 10 OF 10
PURPOSE: MANATEE GRATE DETAILS	CERTIFICATE No.: 49513 DATE: 8/20/2007	COE / WMD / DATE: 8/20/2007

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The FDOT contractor will be required to meet all applicable State water quality standards during construction activities. The awarded contractor is required to take all necessary measures to control turbidity. These measures may include the use of turbidity barriers, timing construction activities with tidal cycles, modifications to equipment, or ceasing operations completely if necessary. Turbidity barriers will not be constructed of materials in which manatees could become entrapped. Proposed turbidity barriers are shown on the Dredge and Fill Impact Drawings enclosed as Attachment B to the permit application. Additional temporary and permanent erosion control barriers are discussed in the ERP application. The FDOT does not anticipate that there will be any significant impact due to sedimentation or water quality degradation during construction activities.

To ensure compliance, the FDOT will be responsible for implementing the following turbidity monitoring plan:

Turbidity Monitoring Plan

Prior to construction activities, "background" and "compliance" water quality monitoring stations will be established. One background sampling location will be established at least 50 meters outside of the work area and the influence of any construction activities. One compliance sampling location will be established just outside the work area or other appropriate location within the densest portion of any visible turbidity plume.

Turbidity will be monitored, using a Nephelometer or comparable in-situ turbidity monitoring instrument calibrated and maintained per the manufacturer's specifications, at both "background" and "compliance" locations every 4 hours during all in-water construction activities, beginning 1 hour after commencement of construction. During each sample collection event (background and compliance), samples shall be collected at the following three levels of the water column: 1) one-foot below the surface, 2) mid-depth, and 3) one-foot above the bottom.

The compliance location, given the above, shall be considered the limit of the temporary mixing zone for turbidity allowed during construction. The permittee shall provide the SFWMD ERP Compliance/Enforcement Section with a report, via fax, on the same day that an exceedence occurred, providing the following information for each sampling event when the compliance sample exceeded background levels:

1. Permit number;
2. Project name;
3. The sample collection date, time, location, and depth; water depth; tidal stage and direction of flow for the sample(s) that exceeded background levels (for all three sample depths) – include the turbidity results;
4. The time that the work was shut down and a description of what was done to remediate the situation;
5. The sample collection date, time, location, and depth; water depth; tidal stage and direction of flow for the samples that documented that compliance samples no longer exceeded background levels (for all three sample depths) - include the turbidity results;
6. The time that work resumed; and
7. Nephelometer calibration logs.

In addition, monthly monitoring reports containing all of the monitoring data will be submitted to the SFWMD (attention: ERP Compliance/Enforcement Section) with documents containing the following information:

a. Permit number;
b. Project Name;
c. Dates of sampling and analysis;
d. Time of day samples taken;
e. Depth of water body;
f. Depth of sample;
g. Water depth;
h. Antecedent weather conditions;
i. Tidal stage and direction of flow;
j. Wind direction and velocity;
k. A statement describing the methods used in collection, handling, storage and analysis of the samples;
l. A map indicating the sampling locations;
m. A statement by the individual responsible for implementation of the sampling program attesting to the authenticity, precision, limits of detection, and accuracy of the data;
n. Turbidity sample results; and
o. Nephelometer calibration logs.

If monitoring reveals that turbidity levels at the compliance location are greater than background, all construction activities shall cease immediately and shall not resume until corrective measures have been taken, and turbidity has returned to background levels (based on turbidity sampling results). If exceedences of background turbidity occur frequently, construction activities shall be limited to slack and incoming tides.

A final report within 30 days of completion of in-water construction will be submitted to the SFWMD ERP Compliance/Enforcement Section which includes the following information: 1) the dates of commencement and completion of construction activities; 2) a description of the in-water construction - locations, methods and equipment used; 3) tables of turbidity data collected at the site which lists the date each sample was collected in one column, the value of every background sample collected at a given depth in a second column, the value of every compliance sample collected at a given depth in a third column, and the difference between the background and compliance values in a fourth column -- a separate table shall be provided for each set of compliance and background stations collected at different depths and at different locations; and 4) a statement identifying any violations of the turbidity standard which occurred during the event, the probable cause of the violation, and the corrective measure(s) taken to reduce turbidity.