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

REPLY TO
ATTENTION OF

Regulatory Division
Special Projects and Enforcement Branch
SAJ-1998-3645(NPR-AAZ)

APR 2 5 2007

Florida Department of Transportation, District 6
Attn: Alice Bravo
1000 NW 111th Avenue, Room 6103
Miami, FL 33172

Dear Ms. Bravo:

Reference is made to the application received on February 7, 2007, for a Department of the Army permit to mill and resurface State Road 989 (SW 112 Avenue/Allapattah Road) from SW 222nd Street to US 1/SR 5 in Miami-Dade County. The activities include installing a sidewalk to the existing bridge over Black Creek Canal (C-1W). The application has been assigned number SAJ-1998-3645. The project is located in Sections 7 and 18, Township 56 South, Range 40 East, Miami-Dade County, Florida.

The project as proposed will not require a Department of the Army permit in accordance with Section 10 of the Rivers and Harbors Act of 1899 as it is considered a bridge and, therefore, is under the regulatory jurisdiction of the U.S. Coast Guard. Furthermore, a permit will not be required in accordance with Section 404 of the Clean Water Act as it will not involve the discharge of dredged or fill material into waters of the United States. Provided the work is done in accordance with the enclosed drawings, Department of the Army authorization will not be required.

A U.S. Army Corps of Engineers' (Corps) "Basis for Jurisdiction" form is enclosed for your information and file. This letter contains an approved jurisdictional determination for your permit application. If you object to this decision, you may request an administrative appeal under Corps' regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process fact sheet and Request for Appeal (RFA) form. If you request to appeal this decision, 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 June 27, 2007. It is not necessary to submit an RFA form to the Division office, if you do not object to the decision in this letter.

This determination has been conducted to identify the limits of the Corps Clean Water Act jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work. Please be advised this determination reflects current policy and regulations and is valid for a period of no longer than 5 years from the date of this letter unless new information warrants a revision of the determination before the expiration date. If after the 5-year period, the Corps has not specifically revalidated this determination, it will automatically expire. Any reliance upon this determination beyond the expiration date may lead to possible violation of current Federal laws and/or regulation.

Additionally, your project site may contain species protected by the Endangered Species Act (ESA) of 1972, as amended. You should contact your local U.S. Fish and Wildlife Service (FWS) office to determine if Federally listed species or their habitat are present on your project site. If it is determined that Federally listed species may be affected by the proposed project, authorization for "incidental take" may be required. FWS offices

can be contacted by the following telephone numbers: Jacksonville at 904-232-2580, Panama City at 850-763-2177, St. Petersburg at 727-570-5398, or Vero Beach at 772-562-3909.

This letter does not obviate the requirement to obtain any other Federal, State, or local permits that may be necessary for your project. Should you have any questions, please contact Alisa Zarbo by email at Alisa.A.Zarbo@saj02.usace.army.mil, at the letterhead address, or by telephone at 772-219-8418.

Thank you for your cooperation with our permit program.

Sincerely,

Loren M. Mason
Chief, Special Projects and
Enforcement Branch

Enclosures

Copy Furnished:
U.S. Coast Guard, 7th District

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: FDOT		File Number: SAJ-1998-3645	Date: 4-27-07
Attached is:			See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A
	PROFFERED PERMIT (Standard Permit or Letter of permission)		B
	PERMIT DENIAL		C
X	APPROVED JURISDICTIONAL DETERMINATION		D
	PRELIMINARY JURISDICTIONAL DETERMINATION		E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- *ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.*
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- *ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.*
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- *ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.*
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact: Project Manager as noted in letter	If you only have questions regarding the appeal process you may also contact: Michael Bell 404-562-5137

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

_____ Signature of appellant or agent.	Date:	Telephone number:

JURISDICTIONAL DETERMINATION

U.S. Army Corps of Engineers

Revised 8/13/04

DISTRICT OFFICE: CESAJ-RD-SS
FILE NUMBER: SAJ-1998-3645

PROJECT LOCATION INFORMATION:

State: FL
County: Miami-Dade
Center coordinates of site (latitude/longitude):
Approximate size of area (parcel) reviewed, including uplands: 11.90 acres
Name of nearest waterway: Black Creek Canal
Name of watershed: Everglades

JURISDICTIONAL DETERMINATION

Completed: Desktop determination ☒ Date: 4-23-07
Site visit(s) ☐ Date(s):

Jurisdictional Determination (JD):

☐ Preliminary JD - Based on available information, ☐ *there appear to be* (or) ☐ *there appear to be no* "waters of the United States" and/or "navigable waters of the United States" on the project site. A preliminary JD is not appealable (Reference 33 CFR part 331).

☒ Approved JD – An approved JD is an appealable action (Reference 33 CFR part 331).
Check all that apply:

☒ *There are* "navigable waters of the United States" (as defined by 33 CFR part 329 and associated guidance) within the reviewed area. Approximate size of jurisdictional area:

☐ *There are* "waters of the United States" (as defined by 33 CFR part 328 and associated guidance) within the reviewed area. Approximate size of jurisdictional area:

☐ *There are "isolated, non-navigable, intra-state* waters or wetlands" within the reviewed area.
☐ Decision supported by SWANCC/Migratory Bird Rule Information Sheet for Determination of No Jurisdiction.

BASIS OF JURISDICTIONAL DETERMINATION:

A. Waters defined under 33 CFR part 329 as "navigable waters of the United States":

☒ The presence of waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

B. Waters defined under 33 CFR part 328.3(a) as "waters of the United States":

☐ (1) The presence of waters, which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide.
☐ (2) The presence of interstate waters including interstate wetlands[1].
☐ (3) The presence of other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate commerce including any such waters (check all that apply):
- ☐ (i) which are or could be used by interstate or foreign travelers for recreational or other purposes.
- ☐ (ii) from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- ☐ (iii) which are or could be used for industrial purposes by industries in interstate commerce.

☐ (4) Impoundments of waters otherwise defined as waters of the US.
☐ (5) The presence of a tributary to a water identified in (1) – (4) above.
☐ (6) The presence of territorial seas.
☐ (7) The presence of wetlands adjacent[2] to other waters of the US, except for those wetlands adjacent to other wetlands.

Rationale for the Basis of Jurisdictional Determination (applies to any boxes checked above). *If the jurisdictional water or wetland is not itself a navigable water of the United States, describe connection(s) to the downstream navigable waters. If B(1) or B(3) is used as the Basis of Jurisdiction, document navigability and/or interstate commerce connection (i.e., discuss site conditions, including why the waterbody is navigable and/or how the destruction of the waterbody could affect interstate or foreign commerce). If B(2, 4, 5 or 6) is used as the Basis of Jurisdiction, document the rationale used to make the determination. If B(7) is used as the Basis of Jurisdiction, document the rationale used to make adjacency determination:* No fill within jurisdictional wetlands or ditches. No fill within Black Creek Canal-only shading impacts due to constructing a cantilevered sidewalk on each side of bridge.

Lateral Extent of Jurisdiction: (Reference: 33 CFR parts 328 and 329)

☐ Ordinary High Water Mark indicated by:
- ☐ clear, natural line impressed on the bank
- ☐ the presence of litter and debris
- ☐ changes in the character of soil
- ☐ destruction of terrestrial vegetation
- ☐ shelving
- ☐ other:

☐ High Tide Line indicated by:
- ☐ oil or scum line along shore objects
- ☐ fine shell or debris deposits (foreshore)
- ☐ physical markings/characteristics
- ☐ tidal gages
- ☐ other:

☐ Mean High Water Mark indicated by:
☐ survey to available datum; ☐ physical markings; ☐ vegetation lines/changes in vegetation types.

☐ Wetland boundaries, as shown on the attached wetland delineation map and/or in a delineation report prepared by:

Basis For Not Asserting Jurisdiction:

☐ The reviewed area consists entirely of uplands.
☐ Unable to confirm the presence of waters in 33 CFR part 328(a)(1, 2, or 4-7).
☐ Headquarters declined to approve jurisdiction on the basis of 33 CFR part 328.3(a)(3).
☐ The Corps has made a case-specific determination that the following waters present on the site are not Waters of the United States:
- ☐ Waste treatment systems, including treatment ponds or lagoons, pursuant to 33 CFR part 328.3.
- ☐ Artificially irrigated areas, which would revert to upland if the irrigation ceased.
- ☐ Artificial lakes and ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing.
- ☐ Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons.
- ☐ Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States found at 33 CFR 328.3(a).
- ☐ Isolated, intrastate wetland with no nexus to interstate commerce.
- ☐ Prior converted cropland, as determined by the Natural Resources Conservation Service. Explain rationale:
- ☐ Non-tidal drainage or irrigation ditches excavated on dry land. Explain rationale:
- ☒ Other (explain): No fill within the wetlands or waters of the United States

DATA REVIEWED FOR JURSIDICTIONAL DETERMINATION (mark all that apply):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant.
☐ Data sheets prepared/submitted by or on behalf of the applicant.
- ☐ This office concurs with the delineation report, dated, prepared by (company):
- ☐ This office does not concur with the delineation report, dated , prepared by (company):

☐ Data sheets prepared by the Corps.
☐ Corps' navigable waters' studies:
☐ U.S. Geological Survey Hydrologic Atlas:
☐ U.S. Geological Survey 7.5 Minute Topographic maps:
☐ U.S. Geological Survey 7.5 Minute Historic quadrangles:
☐ U.S. Geological Survey 15 Minute Historic quadrangles:
☐ USDA Natural Resources Conservation Service Soil Survey:
☐ National wetlands inventory maps:
☐ State/Local wetland inventory maps:
☐ FEMA/FIRM maps (Map Name & Date):
☐ 100-year Floodplain Elevation is: (NGVD)
☐ Aerial Photographs (Name & Date):
☐ Other photographs (Date):
☐ Advanced Identification Wetland maps:
☐ Site visit/determination conducted on:
☐ Applicable/supporting case law:
☒ Other information (please specify): ERA Online maps/aerials

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[1]Wetlands are identified and delineated using the methods and criteria established in the Corps Wetland Delineation Manual (87 Manual) (i.e., occurrence of hydrophytic vegetation, hydric soils and wetland hydrology).

[2]The term "adjacent" means bordering, contiguous, or neighboring. Wetlands separated from other waters of the U.S. by man-made dikes or barriers, natural river berms, beach dunes, and the like are also adjacent.

INDEX OF STRUCTURE PLANS

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B1-1	PLAN AND ELEVATION
B1-2	CONSTRUCTION SEQUENCE
B1-3	SUPERSTRUCTURE DETAILS (1 OF 2)
B1-4	SUPERSTRUCTURE DETAILS (2 OF 2)
B1-5	TRAFFIC BARRIER WALL TRANSITION DETAILS
B1E-1 TO B1E-5	EXISTING BRIDGE PLANS

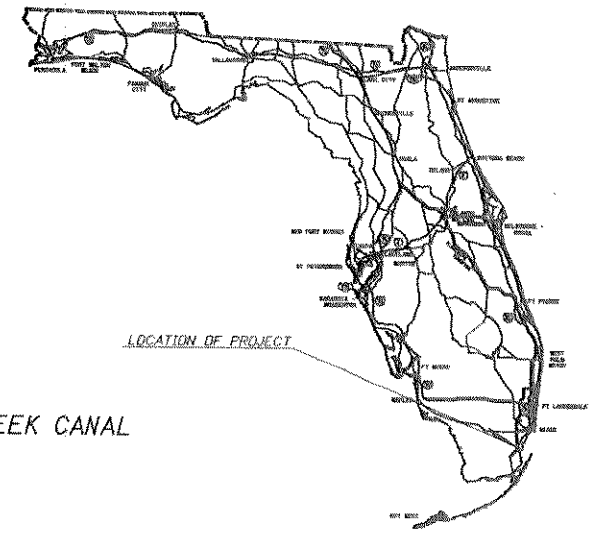
STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

BRIDGE WIDENING PLANS

FINANCIAL PROJECT ID: 414621-1-52-01



STRUCTURE PLANS

ROAD NO. 989 / SW 112 AVE BRIDGE OVER BLACK CREEK CANAL

MIAMI DADE COUNTY

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

070109-19

STRUCTURE SHOP DRAWINGS TO BE SUBMITTED TO:

STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172
KIM S. SAING, PE
PE NO. 26768

ORIGINAL SUBMITTAL
JAN 09 2007
WPB

PLANS PREPARED BY:

STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172
KIM S. SAING, PE
PE NO. 26768

GOVERNING STANDARDS & SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY 2006 AND
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED BY REPRODUCTION.

12-22-06

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

STRUCTURE PLANS ENGINEER OF RECORD: KIM S. SAING, PE

DATE: November 1st, 2006

P.E. NO.: 26768

FDOT PROJECT MANAGER : MOHAMMED MANSURI, P.E.

FISCAL YEAR	SHEET NO.
08	B-1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

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CONSTRUCTION SPECIFICATIONS:

1. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007, SUPPLEMENTS AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:

1. DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 3RD EDITION, 2004 AND INTERIMS THRU 2006.
2. THE FLORIDA DEPARTMENT OF TRANSPORTATION "STRUCTURES DESIGN GUIDELINES NO. 625-020-154-B, EFFECTIVE JANUARY 2006"
3. FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, 2006.

DESIGN METHOD:

1. ALL COMPONENTS ARE DESIGNED PER LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD.

DESIGN LOADING:

1. PEDESTRIAN LOADING (0.075 KSF)

CONCRETE:

1. PROVIDE ¾" CHAMFERS ON ALL EXPOSED EDGES UNLESS NOTED OTHERWISE.
2. CONSTRUCTION JOINTS ARE PERMITTED ONLY AT LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.
3. CONCRETE SHALL CONFORM TO SECTION 346 OF THE CONSTRUCTION SPECIFICATIONS.
4. CONCRETE:

CLASS OF CONCRETE	MIN. 28 DAY COMPRESSIVE STRENGTH	LOCATION OF CONCRETE
Class II, Bridge Deck	4500 psi	Bridge Sidewalk
Class II	3400 psi	Traffic Barrier
Class I	3000 psi	Approach Sidewalk

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
2. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BARS EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.
3. REINFORCING STEEL DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS.
4. EXISTING REINFORCING SHOWN IS ACCORDING TO EXISTING PLANS.

STAY-IN-PLACE METAL FORMS:

STAY IN PLACE METAL FORMS WILL NOT BE PERMITTED.

ENVIRONMENTAL CLASSIFICATION:

SUPERSTRUCTURE CLASSIFICATION: SLIGHTLY AGGRESSIVE

DIMENSIONS:

ALL DIMENSIONS ARE IN FEET AND/OR INCHES EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

Kim S. Saing
12-22-06

EXISTING BRIDGE DATA:

1. THE DIMENSIONS SHOWN ARE BASED ON THE INFORMATION DETAILED IN THE EXISTING BRIDGE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE DIMENSIONS ON THE FIELD BEFORE BEGINING CONSTRUCTION AND TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

CONCRETE COVER:

1. CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MIN. COVER". SEE FDOT STANDARD SPECIFICATION FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES. UNLESS OTHERWISE NOTED IN THE PLANS, THE FOLLOWING CONCRETE COVER SHALL BE USED:

LOCATION	COVER
SUPERSTRUCTURE	2"

UTILITIES:

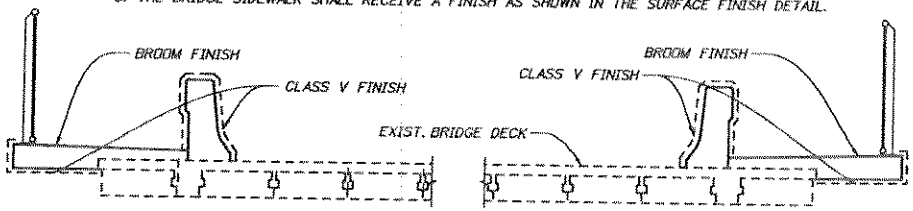
1. THE UTILITIES SHOWN IN THE BRIDGE PLANS ARE AT APPROXIMATE LOCATIONS. FOR ADDITIONAL INFORMATION, REFER TO THE UTILITY PLANS AND THE ROADWAY PLANS FOR THE LOCATION OF THE RELOCATED UTILITIES.
2. THE CONTRACTOR SHALL NOTIFY ALL INVOLVED UTILITY COMPANIES TO VERIFY EXACT LOCATIONS PRIOR TO START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL ASSURE THAT ANY EXISTING UTILITIES ARE NOT ENDANGERED OR DISTURBED DURING CONSTRUCTION AND THE ACTIVE UTITLITIES ARE PROPERLY MAINTAINED WITHIN THE CONSTRUCTION LIMITS.

PHASING OF WORK:

1. WORK PHASING AND PROGRESSION OF THE WORK SHALL CONFORM WITH THE MOT PLANS LOCATED IN THE ROADWAY PLANS AND THE NOTES ON THE CONSTRUCTION SEQUENCE DRAWINGS.

CONCRETE SURFACE FINISH:

1. CONCRETE FINISH SHALL BE IN ACCORDANCE WITH ARTICLE 400-15 OF THE SPECIFICATIONS UNLESS NOTED OTHERWISE. THE COST OF MATERIALS AND APPLICATION OF THE CONCRETE FINISH SHALL BE INCLUDED IN THE CONTRACT PRICE BID FOR CONCRETE ITEMS AND WILL NOT BE COVERED BY A SEPARATE PAY ITEM.
2. ALL EXPOSED SURFACES OF TRAFFIC RAILING BARRIERS SHALL RECEIVE A "CLASS 5 APPLIED FINISH COATING" IN ACCORDANCE WITH THE SPECIFICATIONS.
3. THE BRIDGE SIDEWALK SHALL RECEIVE A FINISH AS SHOWN IN THE SURFACE FINISH DETAIL.



SURFACE FINISH DETAIL

BID ITEM NOTES:

1. FOR SUMMARY OF BRIDGE PAY ITEMS, SEE ROADWAY PLANS.
2. BID ITEM NO. 110-3, INCLUDES THE REMOVAL OF APPPROXIMATELY 350 SF (PLAN AREA) OF EXISTING BRIDGE.
3. CONCRETE BARRIER WALL TRANSITION (SHEET B1-5) TO BE PAID UNDER PAY ITEM 521-5-1 (TRAFFIC RAILING BARRIER - 32 F SHAPE).
4. SIDEWALK THICKENED EDGE TO BE PAID UNDER CONCRETE CLASS I (400-1-15). COST OF OF REINFORCEMENT OF THICKENED EDGE TO BE INCLUDED IN THIS PAY ITEM.
5. FOR MAINTENACE OF TRAFFIC BID ITEM NOTES, SEE ROADWAY PLANS.

BRIDGE No. 870615

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAME	DATE
DRAWN BY	J.S.	07-06
CHECKED BY	J.A.R.	07-06
DESIGNED BY	J.S.	07-06
CHECKED BY	J.A.R.	07-06
APPROVED BY	K.S. Saing, PE	

ENGINEER OF RECORD:
STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172
KIM SAING, PE
PE NO. 26768

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
989	MIAMI-DADE	414621-1-52-01

SHEET TITLE: GENERAL NOTES

PROJECT NAME: SR 989/SW 112 AVE BRIDGE OVER BLACK CREEK CANAL

SHEET NO. B-2

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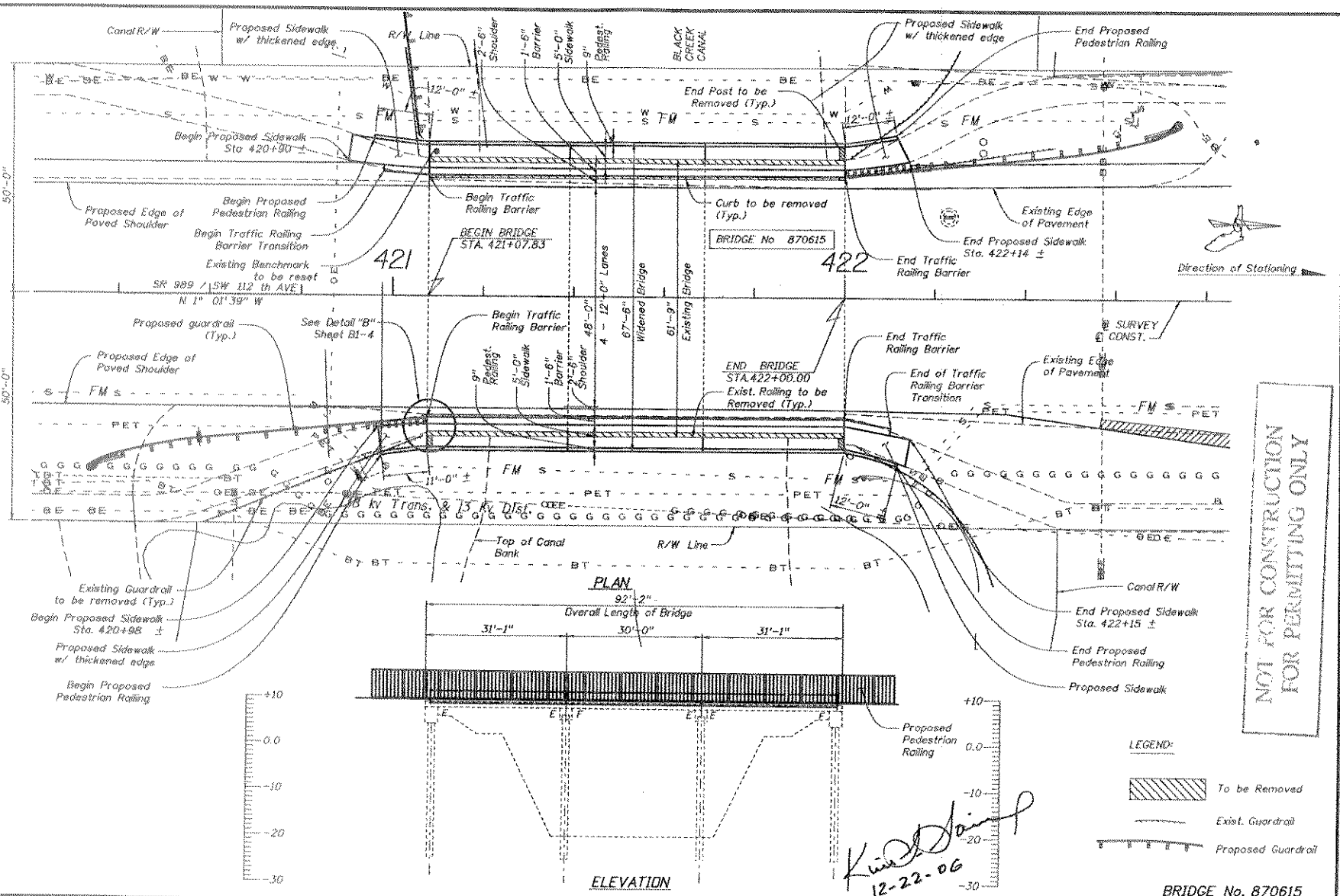

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAME	DATE
DRAWN BY	J.S.	07-06
CHECKED BY	J.A.R.	07-06
DESIGNED BY	J.S.	07-06
CHECKED BY	J.A.R.	07-06
APPROVED BY	Kim S. Saing, PE	

ENGINEER OF RECORD:
STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172
KIM S. SAING, PE
PE 26768

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
989	MIAMI-DADE	414621-1-52-01

SHEET TITLE: PLAN AND ELEVATION

PROJECT NAME: SR 989/ SW 112 AVE BRIDGE OVER BLACK CREEK CANAL

SHEET NO. B1-1

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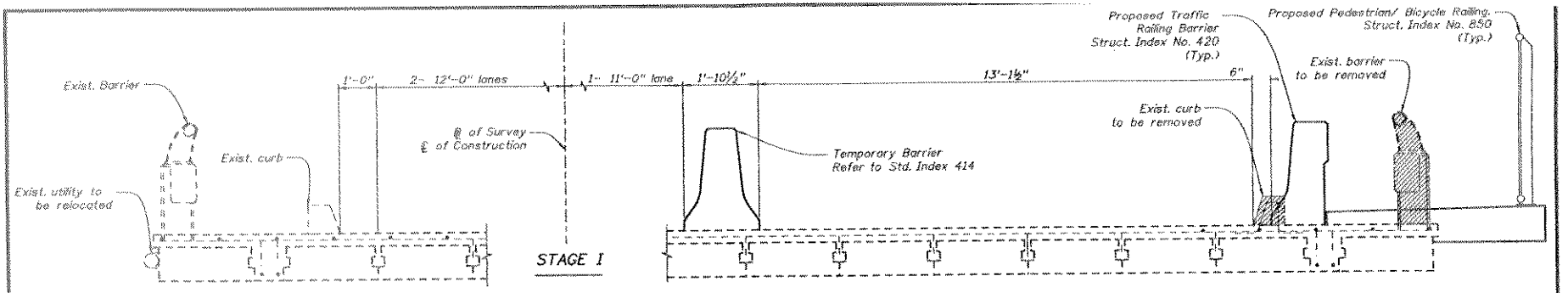
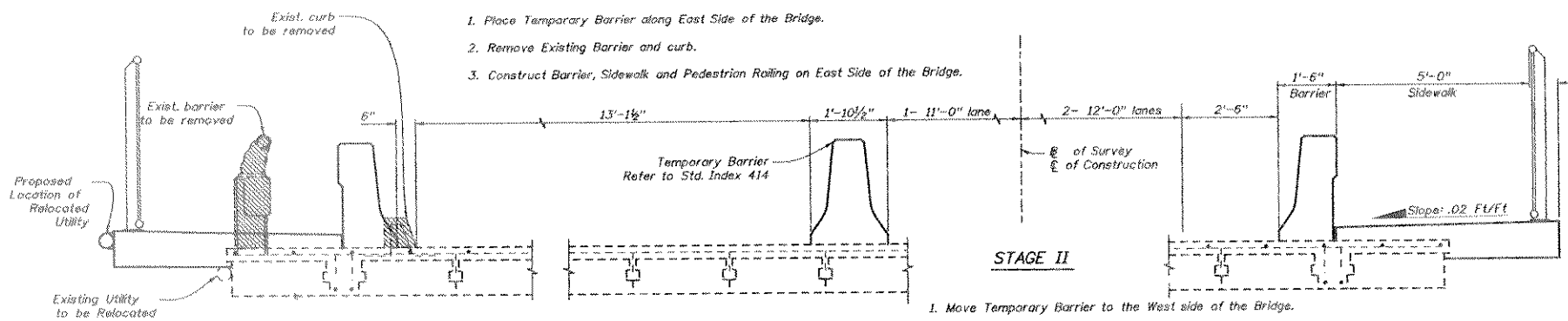


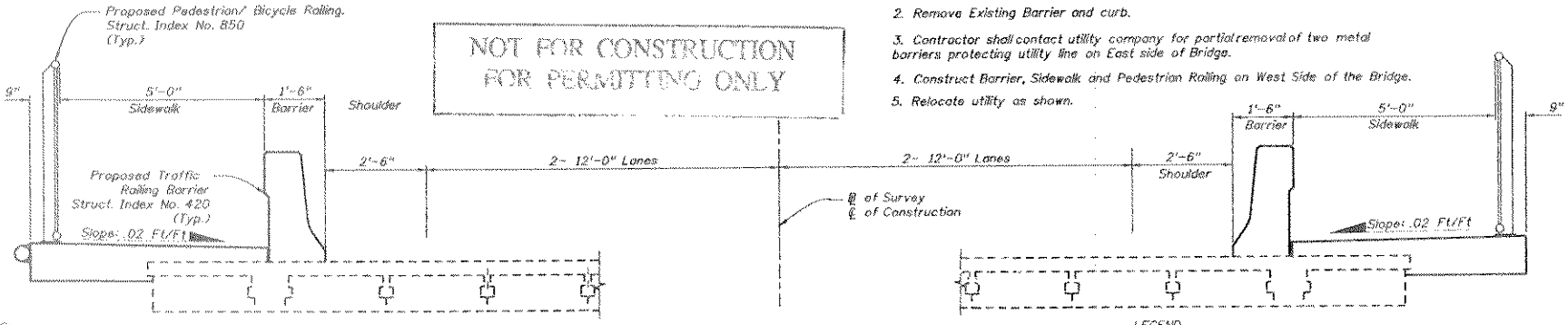
STAGE I

1. Place Temporary Barrier along East Side of the Bridge.
2. Remove Existing Barrier and curb.
3. Construct Barrier, Sidewalk and Pedestrian Railing on East Side of the Bridge.



STAGE II

1. Move Temporary Barrier to the West side of the Bridge.
2. Remove Existing Barrier and curb.
3. Contractor shall contact utility company for partial removal of two metal barriers protecting utility line on East side of Bridge.
4. Construct Barrier, Sidewalk and Pedestrian Railing on West Side of the Bridge.
5. Relocate utility as shown.



NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

NOTES:

1. Contractor shall exercise caution with the traffic control and shall preserve the integrity of the existing structure in performing contruction stages.
2. Any alterations to the traffic control plan shall be approved by the Engineer.

FINAL BRIDGE SECTION

12-22-06

LEGEND

- Removal of Exist. Structure
- Existing Structure
- Proposed Structure

BRIDGE NO. 870615

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6615-23.003, F.A.C.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAMES	DATES
DRAWN BY	J.S.	07-06
CHECKED BY	J.A.R.	07-06
DESIGNED BY	J.S.	07-06
CHECKED BY	J.A.R.	07-06
APPROVED BY	Kim S. Saing, PE	

ENGINEER OF RECORD:
STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172
KIM S. SAING
PE NO. 26768

FLORIDA DEPARTMENT OF TRANSPORTATION

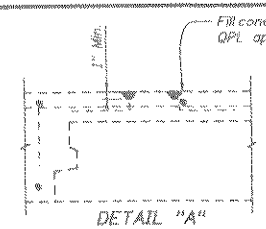
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
989	MIAMI-DADE	414621-1-52-01

SHEET TITLE: CONSTRUCTION SEQUENCE

PROJECT NAME: SR 989/SW 112 AVE BRIDGE OVER BLACK CREEK CANAL

SHEET NO. B1-2

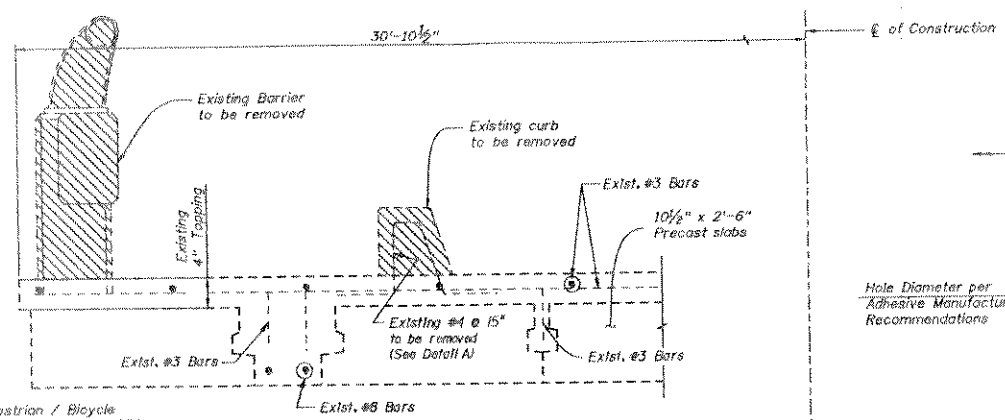
\414621\struct\constseq01.dgn 12/22/2006 10:36:36 AM



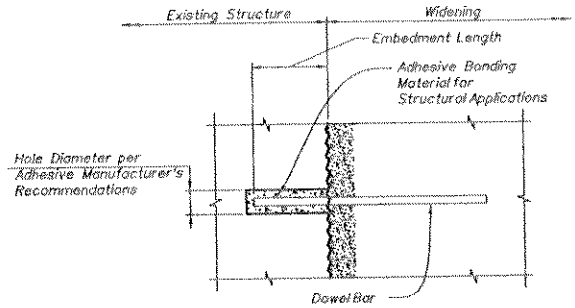
DETAIL "A"
EXISTING REINFORCING REMOVAL DETAIL

Notes:

1. Exist. reinf. shall be removed 1" below the surface of exist. concrete and filled with an Epoxy Compound, Type F-2, I or Q in accordance with specification Section 926.



EXISTING CONDITION



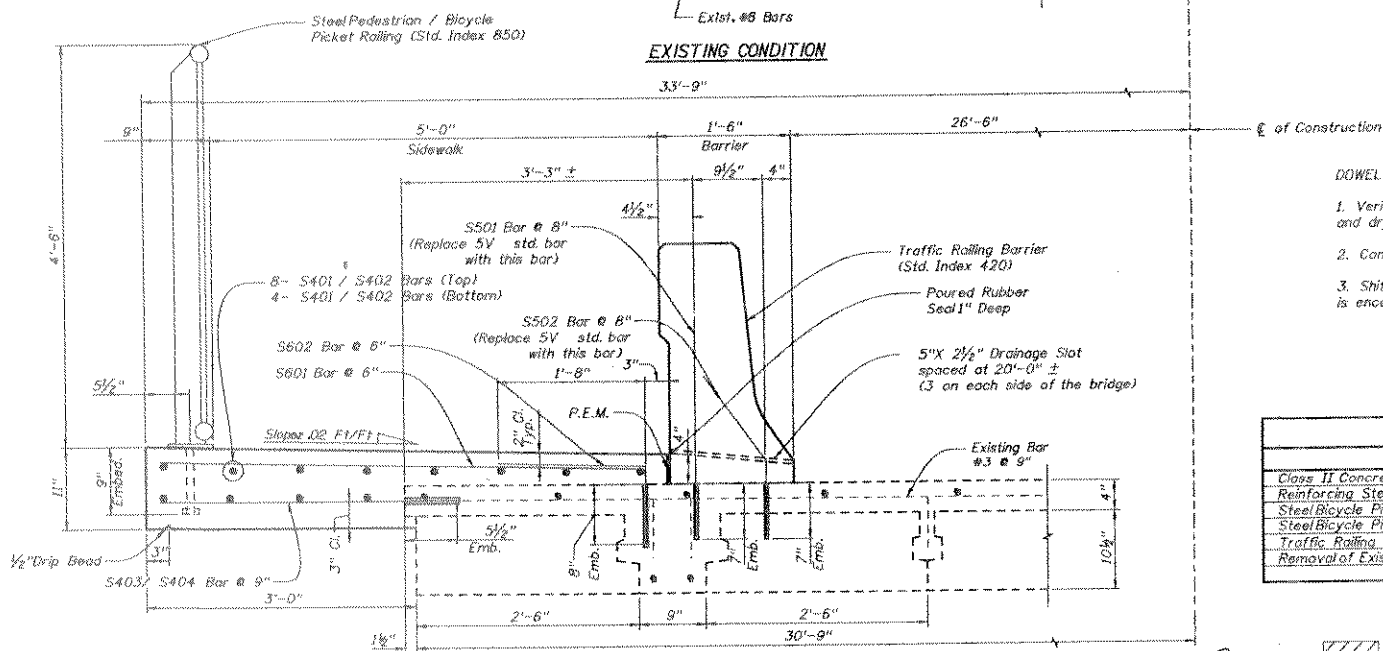
DOWEL INSTALLATION DETAIL

DOWEL NOTES:

1. Verify that holes for Dowel Bars are thoroughly clean and dry prior to placing bonding material.

2. Comply with Sections 416 & 493 of the Specifications.

3. Shift dowel hole locations if existing reinforcing steel is encountered.



PROPOSED 5'-0" SIDEWALK

* The Min. Required dowel embedment is for Bond Type HSHV only.

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

Kim S. Saing
12-22-06

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class II Concrete (Superstructure)	C.Y.	25
Reinforcing Steel (Superstructure)	LB.	7,627
Steel Bicycle Picket Railing (At Bridge)	L.F.	185
Steel Bicycle Picket Railing (At Approaches)	L.F.	47
Traffic Railing Barrier (Bridge)	L.F.	185
Removal of Exist. Conc. Structures	L.S.	1

LEGEND

- Removal of Exist. Structure
- Existing Structure
- Proposed Structure
- P.E.M. = Premoulded Expansion Material

BRIDGE NO. 870615

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAMES	DATES
DRAWN BY	J.S.	08/06
CHECKED BY	J.A.R.	08/06
DESIGNED BY	J.S.	08/06
CHECKED BY	J.A.R.	08/06
APPROVED BY	Kim S. Saing, PE	

ENGINEER OF RECORD: STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172
KIM S. SAING, PE
PE 26768

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
989	MIAMI-DADE	414621-1-52-01

SHEET TITLE: SUPERSTRUCTURE DETAILS (1 OF 2)

PROJECT NAME: SR 989/S.W. 112 AVE BRIDGE OVER BLACK CREEK CANAL

SHEET NO. B1-3

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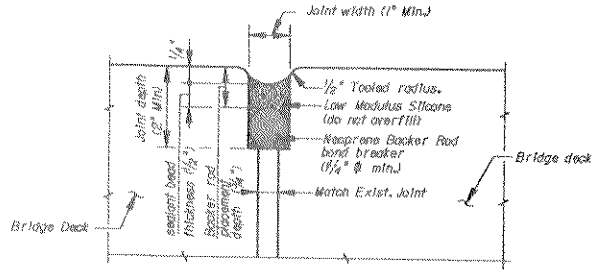

JOINT DETAIL @ SIDEWALK WIDENING

Locate Joint to match existing Bridge Joint

Note: Cost of all labor and material necessary to construct elastic preformed joint seal shall be considered incidental to and included in Item No. 400-2-4 Class II Concrete (Superstructure).

BILL OF REINFORCEMENT

MARK SIZE	MARK DES	LENGTH FT IN	NO BARS	TYP BAR	STY A	STY G	B FT IN FR	C FT IN FR	D FT IN FR	E FT IN FR	F FT IN FR	H FT IN FR	J FT IN FR	K FT IN FR	N NO	Ø ANG
LOCATION SUPERSTRUCTURE											NO. REQUIRED = 1					
4	S401	30- 8	48	1			30- 8									
4	S402	29- 8	24	1			29- 8									
4	S403	3- 4	244	1			3- 3 1/2									
4	S404	4- 6	4	1			4- 5 1/2									
6	S601	5- 4	370	1			5- 4									
6	S602	2- 6	370	10			1- 8	0-10								
5	S501	2- 5	276	1			2- 5									
5	S502	2- 0	276	12			0-10	1- 2								36

END OF LIST

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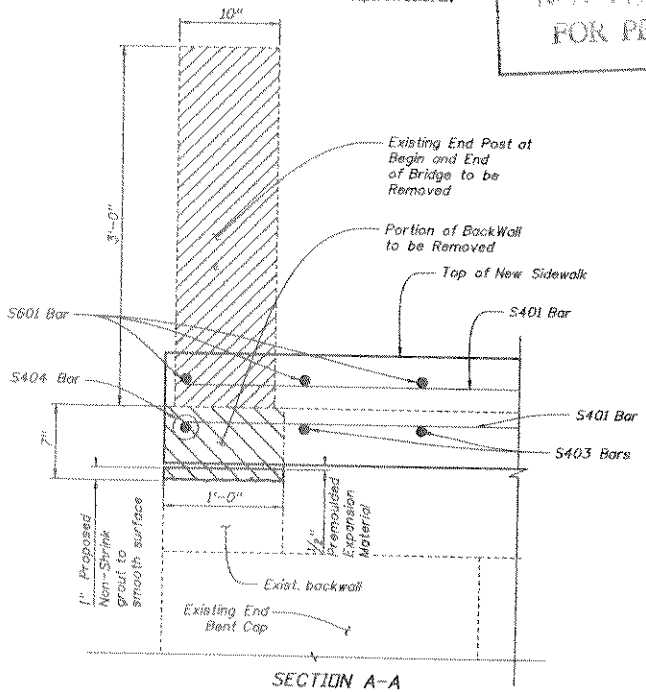
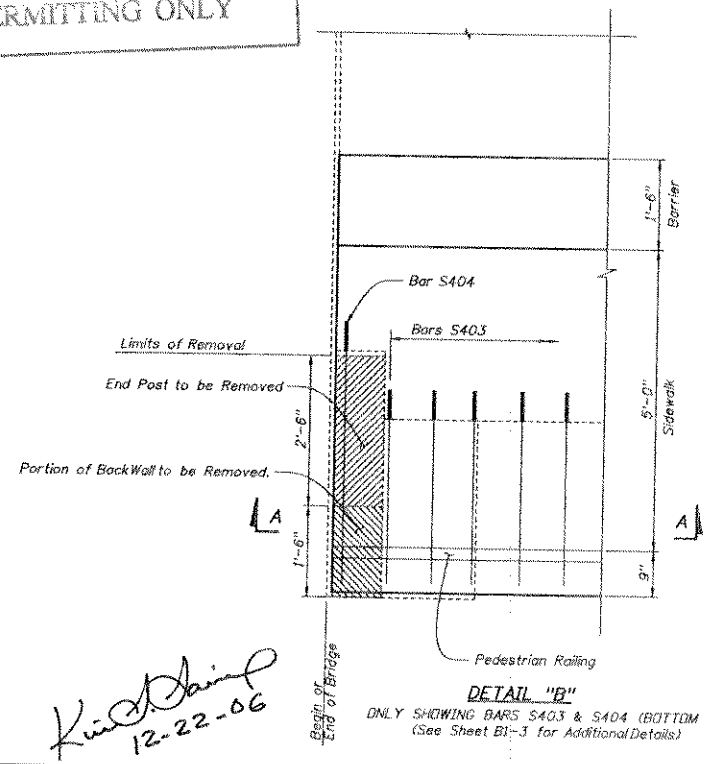
FOR PERMITTING ONLY



SECTION A-A

REMOVAL DETAIL
TYP. @ ALL BRIDGE CORNERS
(Not to Scale)



DETAIL "B"

ONLY SHOWING BARS S403 & S404 (BOTTOM BARS)
(See Sheet B1-3 for Additional Details)

LEGEND

- Removal of Exist. Structure
- Existing Structure
- Proposed Structure

Kim S. Saing 12-22-06

BRIDGE NO. 870615

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAME	DATE
DRAWN BY	J.S.	08/06
CHECKED BY	J.A.R.	08/06
DESIGNED BY	J.S.	08/06
CHECKED BY	J.A.R.	08/06
APPROVED BY	Kim. S. Saing, PE	

ENGINEER OF RECORD, STRUCTURES DESIGN OFFICE
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1000 N.W. 111th Avenue
Miami, Florida 33172
KIM S. SAING, PE
PE 26768

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
989	MIAMI-DADE	414621-1-52-01

SHEET TITLE: SUPERSTRUCTURE DETAILS (2 OF 2)

PROJECT NAME: SR 989 / S.W. 112 AVE) BRIDGE OVER BLACK CREEK CANAL

SHEET NO. B1-4

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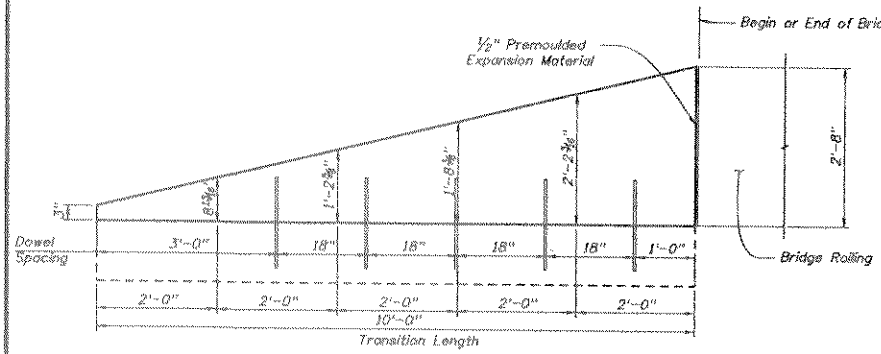
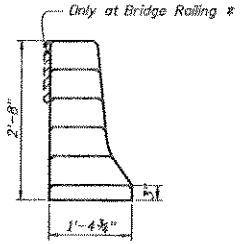
\structures\superstructure01.dgn 12/22/2006 10:43:16 AM



ELEVATION VIEW OF TRAFFIC BARRIER TRANSITION



END ELEVATION

* Barrier at transition shaped like the 32 F Shape Traffic Railing Barrier (Std. Index 420) except as Noted

NOTES:

1. Barrier wall Transition to be paid under Traffic Railing Barrier (32 F Shape) Pay Item 521-5-1. Footer for barrier wall transition shall also be paid under this pay item.

2. Sidewalk Thickened Edge to be paid under Concrete Class I 400-1-15. Cost of reinforcement of thickened edge for sidewalk to be included in this pay item.

3. Class II Concrete shall be used for traffic barrier transition.

4. Reinforcing Steel shall be ASTM A615, Grade 60.

5. Exposed surfaces of barrier transition shall receive a Class V applied finish coating in accordance with the Std. specifications.

6. Expansion Joints in barrier transition is only required at bridge ends; wall joints are to match the proposed expansion joint.

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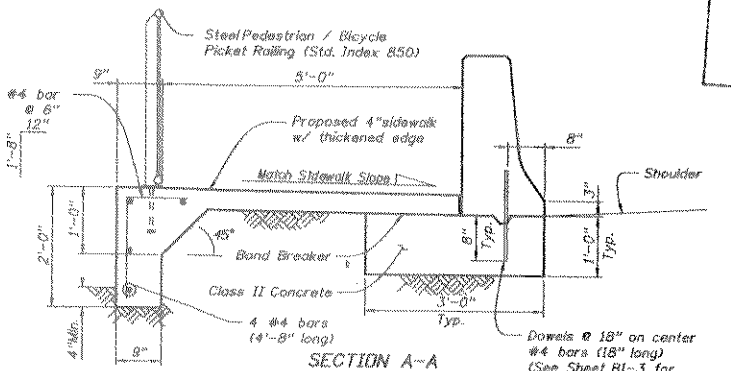
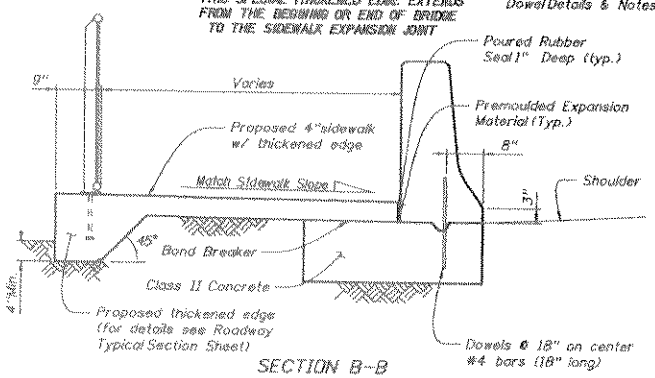
FOR PERMITTING ONLY

SPECIAL 2 FEET TICKENED EDGE	
	Dim "X" (feet)
NE corner	0
NW corner	5
SE corner	5
SW corner	5

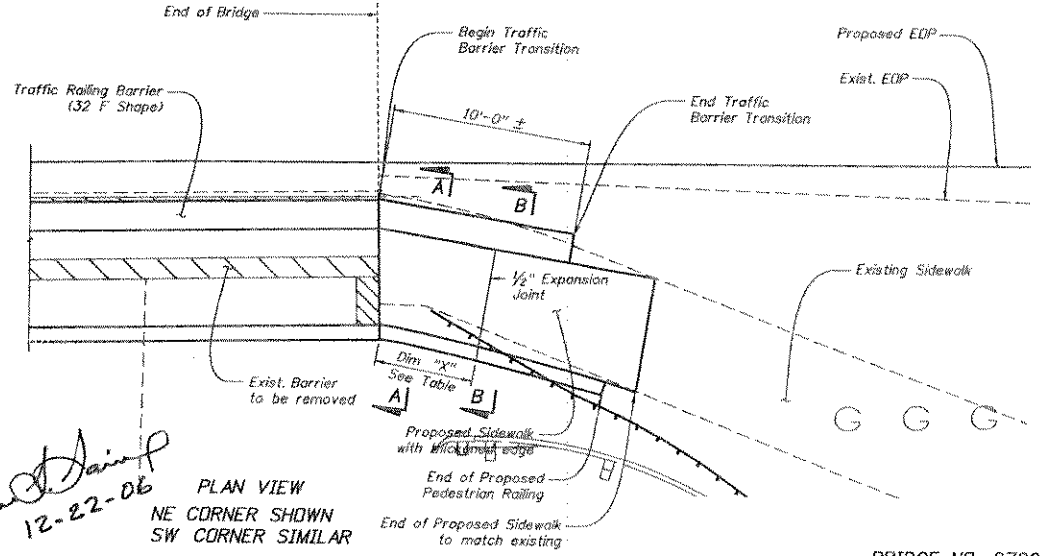


SECTION A-A

THIS SPECIAL THICKENED EDGE EXTENDS FROM THE BEGINNING OR END OF BRIDGE TO THE SIDEWALK EXPANSION JOINT



SECTION B-B



Kim S. Saing 12-22-06

PLAN VIEW
NE CORNER SHOWN
SW CORNER SIMILAR

BRIDGE NO. 870615

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	INITIALS	DATE
DRAWN BY	J.S.	08/06
CHECKED BY	J.A.R.	08/06
DESIGNED BY	J.S.	08/06
CHECKED BY	J.A.R.	08/06
APPROVED BY	Kim S. Saing, PE	

ENGINEER OF RECORD:
STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172
KIM S. SAING, PE
PE 26766

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
989	MIAMI-DADE	414621-1-52-01

SHEET TITLE: TRAFFIC BARRIER WALL TRANSITION DETAIL

PROJECT NAME: SR 989 / S.W. 112 AVE BRIDGE OVER BLACK CREEK CANAL

SHEET NO. B1-5

BUSINO ROUTE R/W SHEET R/W SHEETS

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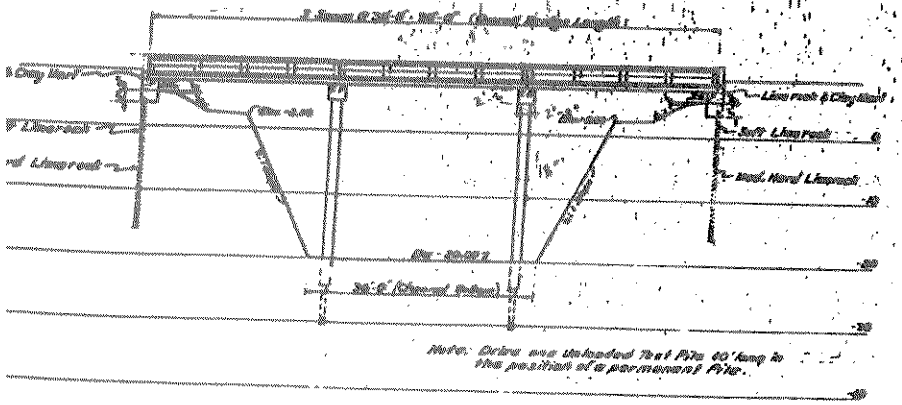
B1E-1

FIN No. 414621-1-52-

8	R.A.	[illegible]

PLAN



Note: End Bent Caps may be poured deeper than shown on Substructure Drawing if necessary to secure firm seat in Limerock.

Note: Drive one Unloaded Test Pile 40' long in the position of a permanent Pile.

ELEVATION

PLAN AND ELEVATION FOR BRIDGE OVER BLACK CREEK

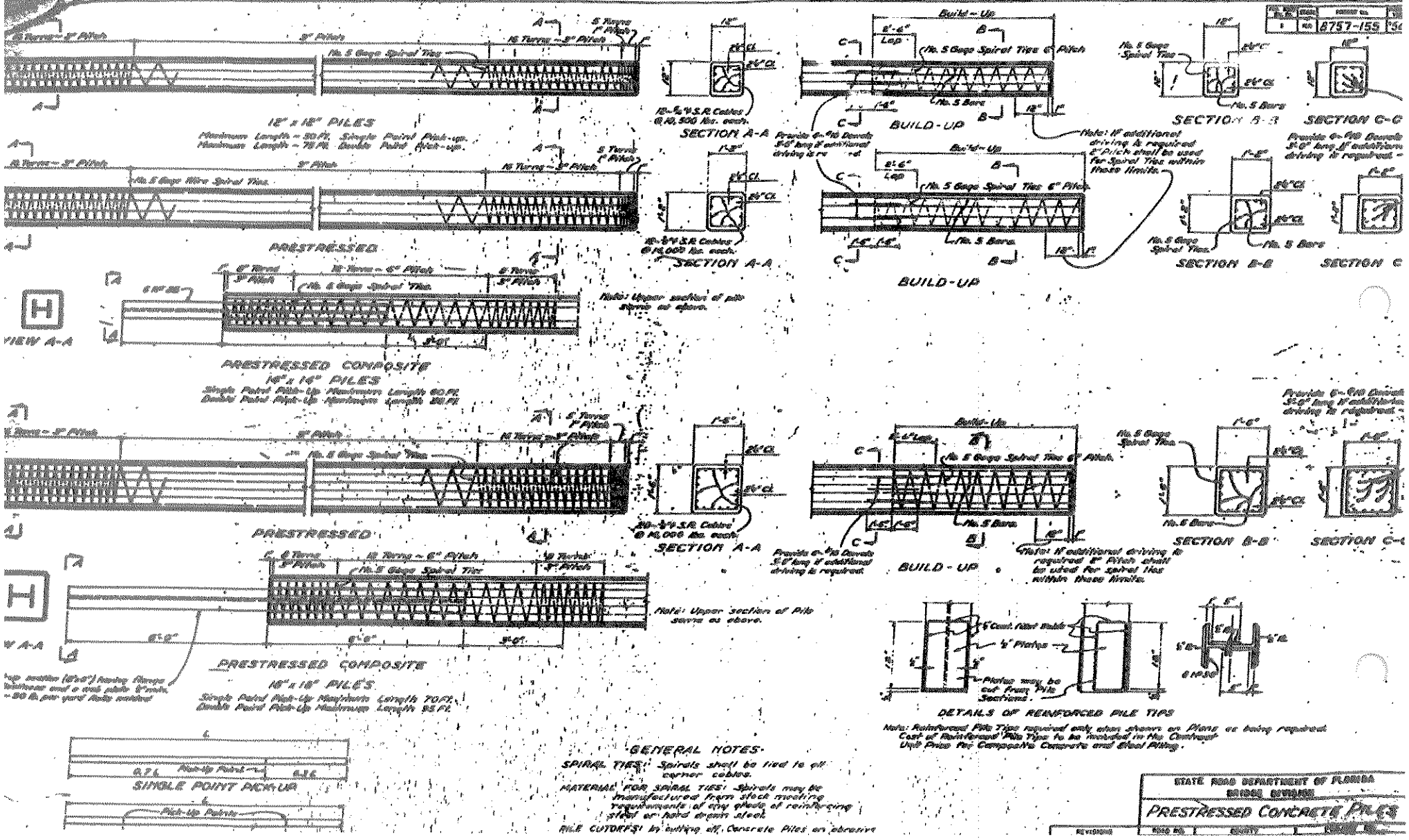
STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

BRIDGE OVER GOULD CANAL AND BRIDGE OVER BLACK CREEK

BIE-2

FIN No. 414621-

No.	Date	Revision No.
1		8757-155



GENERAL NOTES:

SPIRAL TIES: Spirals shall be tied to all corner cables.

MATERIAL FOR SPIRAL TIES: Spirals may be manufactured from stock meeting requirements of any grade of reinforcing steel or hard drawn steel.

PILE CUTOFFS: by cutting off Concrete Piles as observe

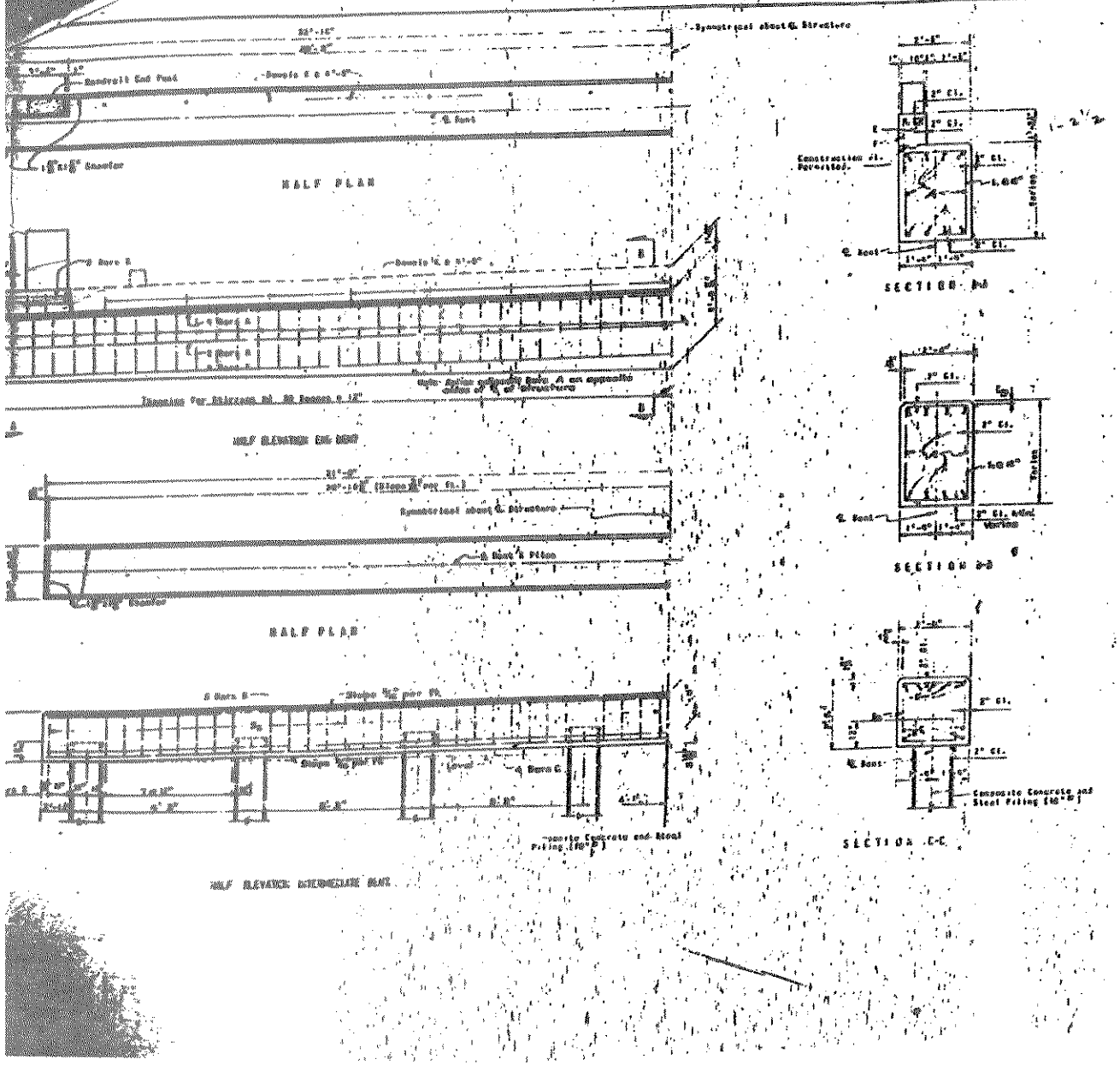
STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

PRESTRESSED CONCRETE PILES

REVISIONS	ROAD NO.	COUNTY	PROJ. NO.

FIN No. 414621-1-52-01 BIE-3

8	FLA.	8757-155	



HALL OF REINFORCING STEEL			
ONE END BENT			
MARK	SIZE	NO. REQ'D.	LENGTH
A	[illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]
F	[illegible]	[illegible]	[illegible]
G	[illegible]	[illegible]	[illegible]
H	[illegible]	[illegible]	[illegible]
I	[illegible]	[illegible]	[illegible]
J	[illegible]	[illegible]	[illegible]
K	[illegible]	[illegible]	[illegible]
L	[illegible]	[illegible]	[illegible]
M	[illegible]	[illegible]	[illegible]
N	[illegible]	[illegible]	[illegible]
O	[illegible]	[illegible]	[illegible]
P	[illegible]	[illegible]	[illegible]
Q	[illegible]	[illegible]	[illegible]
R	[illegible]	[illegible]	[illegible]
S	[illegible]	[illegible]	[illegible]
T	[illegible]	[illegible]	[illegible]
U	[illegible]	[illegible]	[illegible]
V	[illegible]	[illegible]	[illegible]
W	[illegible]	[illegible]	[illegible]
X	[illegible]	[illegible]	[illegible]
Y	[illegible]	[illegible]	[illegible]
Z	[illegible]	[illegible]	[illegible]
ONE INTERMEDIATE BENT			
MARK	SIZE	NO. REQ'D.	LENGTH
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B	[illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]
F	[illegible]	[illegible]	[illegible]
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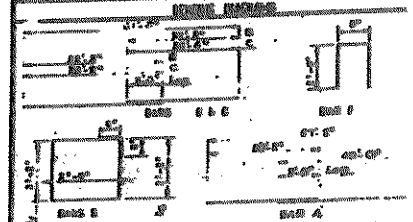
L	[illegible]	[illegible]	[illegible]
M	[illegible]	[illegible]	[illegible]
N	[illegible]	[illegible]	[illegible]
O	[illegible]	[illegible]	[illegible]
P	[illegible]	[illegible]	[illegible]
Q	[illegible]	[illegible]	[illegible]
R	[illegible]	[illegible]	[illegible]
S	[illegible]	[illegible]	[illegible]
T	[illegible]	[illegible]	[illegible]
U	[illegible]	[illegible]	[illegible]
V	[illegible]	[illegible]	[illegible]
W	[illegible]	[illegible]	[illegible]
X	[illegible]	[illegible]	[illegible]
Y	[illegible]	[illegible]	[illegible]
Z	[illegible]	[illegible]	[illegible]

LENGTH DIAGRAMS



NOTE: All bar dimensions are out to out.

ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY	
		ONE INTERMEDIATE BENT	ONE END BENT
Concrete, Class A	Cu. Yd.	14.66	[illegible]
Reinforcing Steel	Lb.	[illegible]	[illegible]
Composite Concrete and Steel Piling (10" ⌀)	Lin. Ft.	*	*

* See Estimated Bridge Quantities.

GENERAL NOTES

DESIGN SPECIFICATIONS: A.A.S.H.O., 1953.
LOADING: HS20-44.
DESIGN LOAD FOR PILES: 45 Tons.

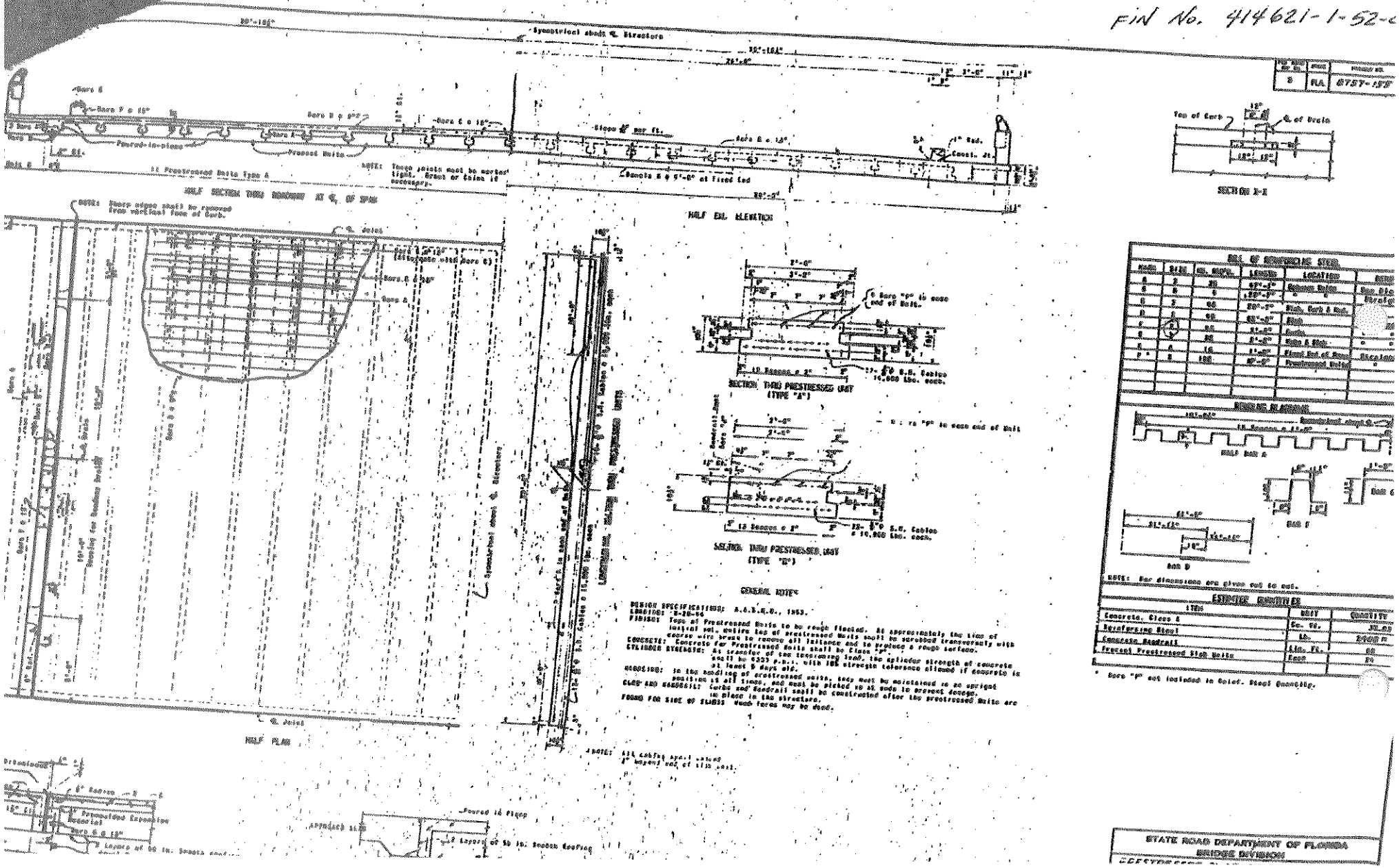
CONSTRUCTION

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

CONCRETE PILE BENTS
30 FT. SPAN - 52 FT. ROADWA

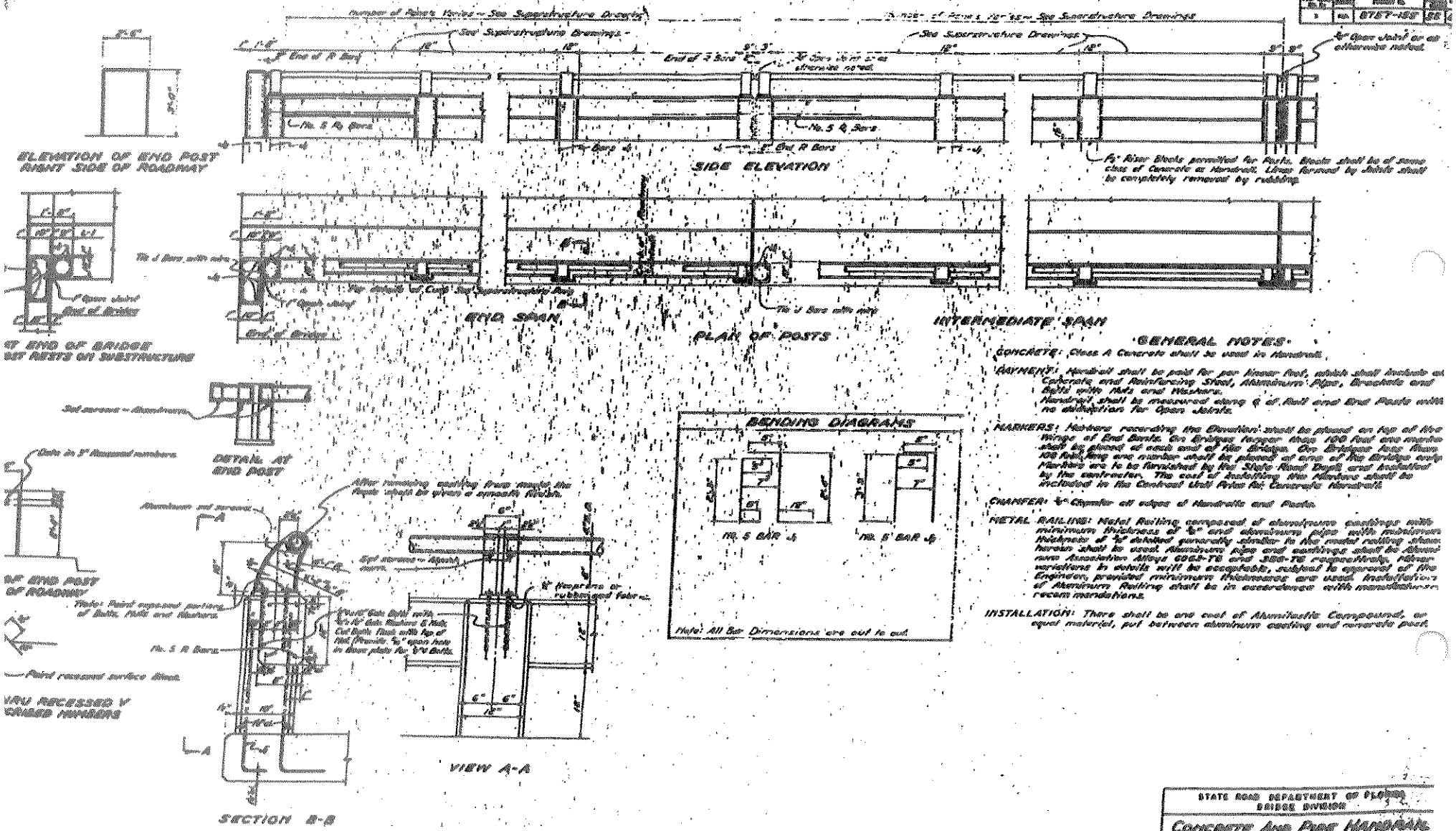
BIE-4

FIN No. 414621-1-52-c



BIE-5

FIN No. 414621-1-52-0



GENERAL NOTES

CONCRETE: Class A Concrete shall be used in Handrail.

PAYMENT: Handrail shall be paid for per linear foot, which shall include all Concrete and Reinforcing Steel, Aluminum Pipe, Brackets and Bolts with Nuts and Washers.
Handrail shall be measured along ℄ of Rail and End Posts with no deduction for Open Joints.

MARKERS: Markers recording the Elevation shall be placed on top of the Wings of End Bents. On Bridges longer than 100 feet one marker shall be placed at each end of the Bridge. On Bridges less than 100 feet long one marker shall be placed at one of the Bridge only. Markers are to be furnished by the State Road Dept. and installed by the contractor. The cost of installing the Markers shall be included in the Contract Unit Price for Concrete Handrail.

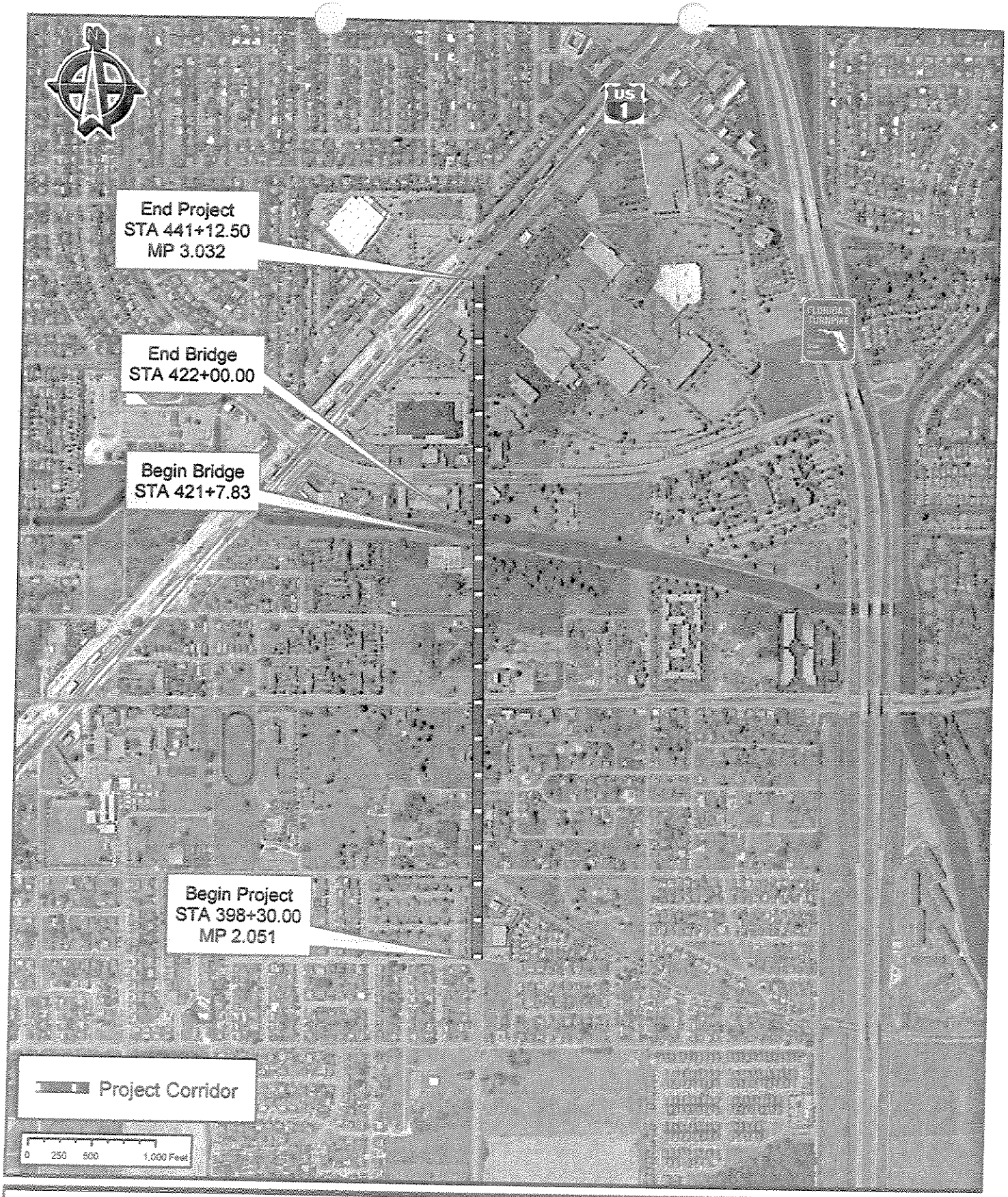
CHAMFER: ¼" Chamfer all edges of Handrails and Posts.

METAL RAILING: Metal Railing composed of aluminum castings with minimum thickness of ⅜" and aluminum pipe with minimum thickness of ⅜" detailed generally similar to the metal railing shown hereon shall be used. Aluminum pipe and castings shall be Aluminum Association Alloys 6063-T6 and 356-T6 respectively. Minor variations in details will be acceptable, subject to approval of the Engineer, provided minimum thicknesses are used. Installation of Aluminum Railing shall be in accordance with manufacturer's recommendations.

INSTALLATION: There shall be one coat of Aluminatic Compound, or equal material, put between aluminum casting and concrete post.

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

CONCRETE AND PIPE HANDRAIL



Source: Florida Geographic Data Library
Project: SR 989 / SW 112th Avenue / Allapattah Road from SW 222nd Street to US1 / SR 5
FM #: 414621-1-52-01
Scale: 1 in = 1,000 ft

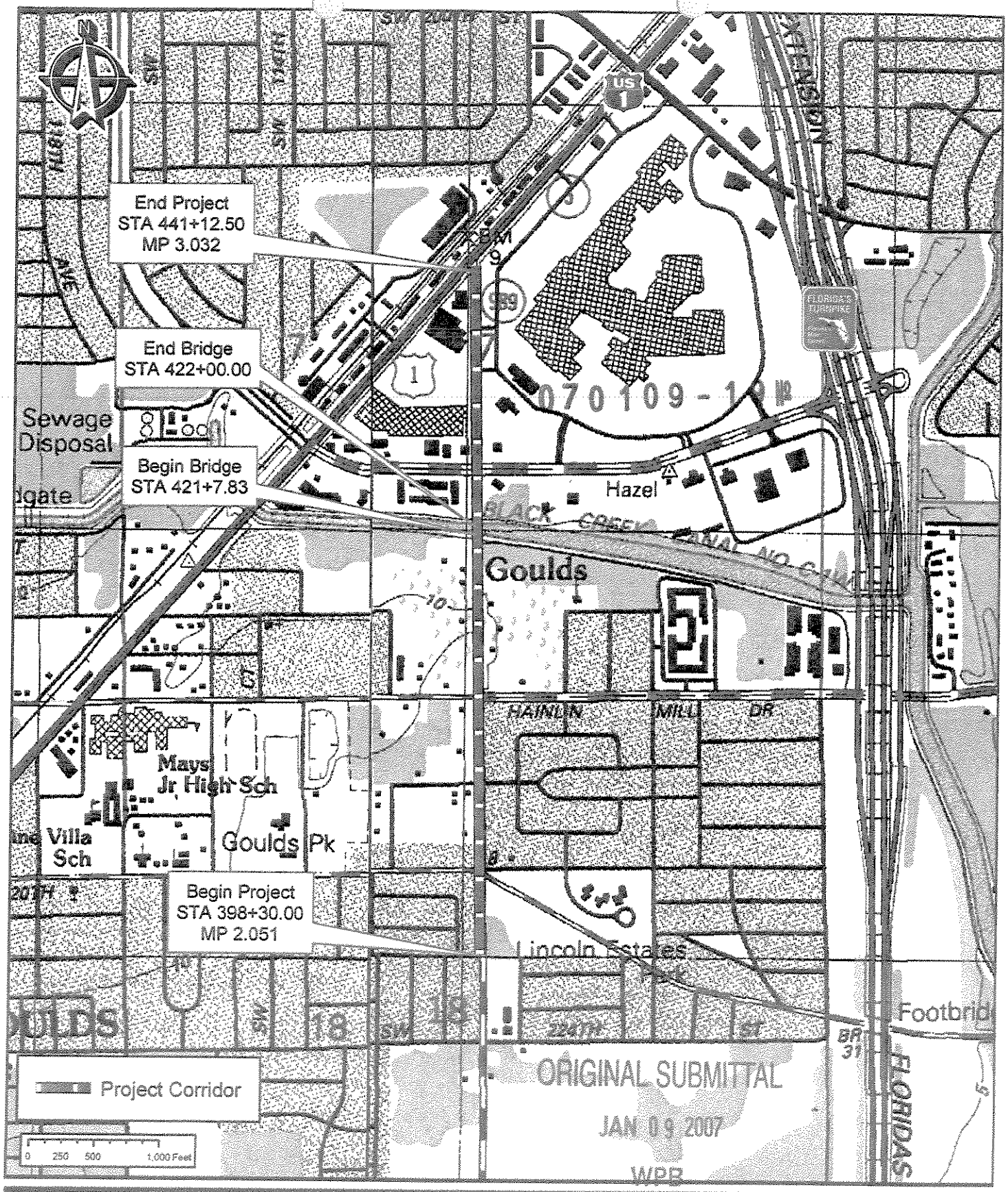
070109-19

AERIAL PHOTOGRAPH - 2004

FLORIDA DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL MANAGEMENT OFFICE

070109-19

Figure 2

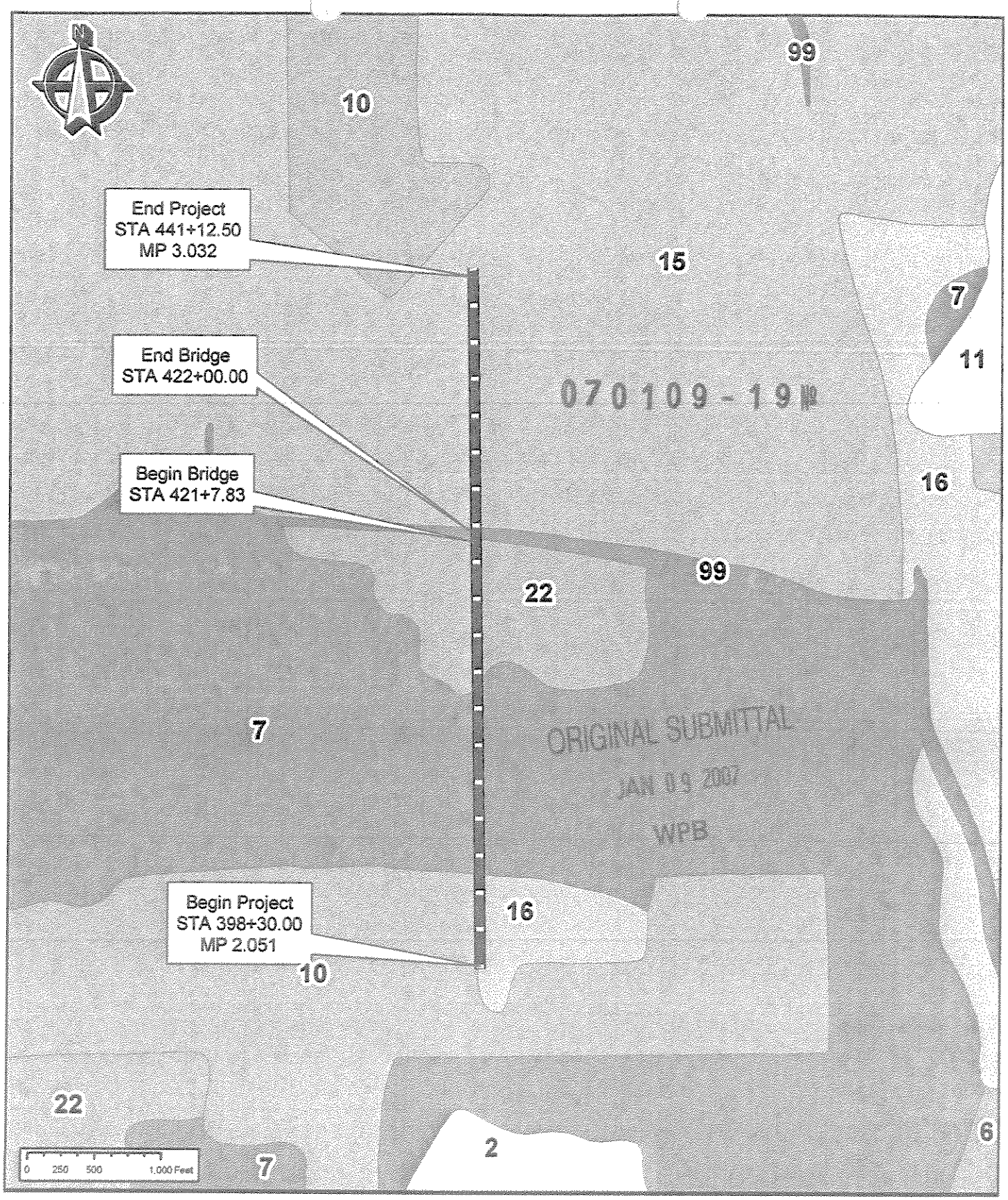


Source: Florida Geographic Data Library
Project: SR 989 / SW 112th Avenue / Allapattah Road from SW 222nd Street to US1 / SR 5
FM #: 414621-1-52-01
Scale: 1 in = 1,000 ft

TOPOGRAPHIC QUADRANGLE

FLORIDA DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL MANAGEMENT OFFICE

Figure 3

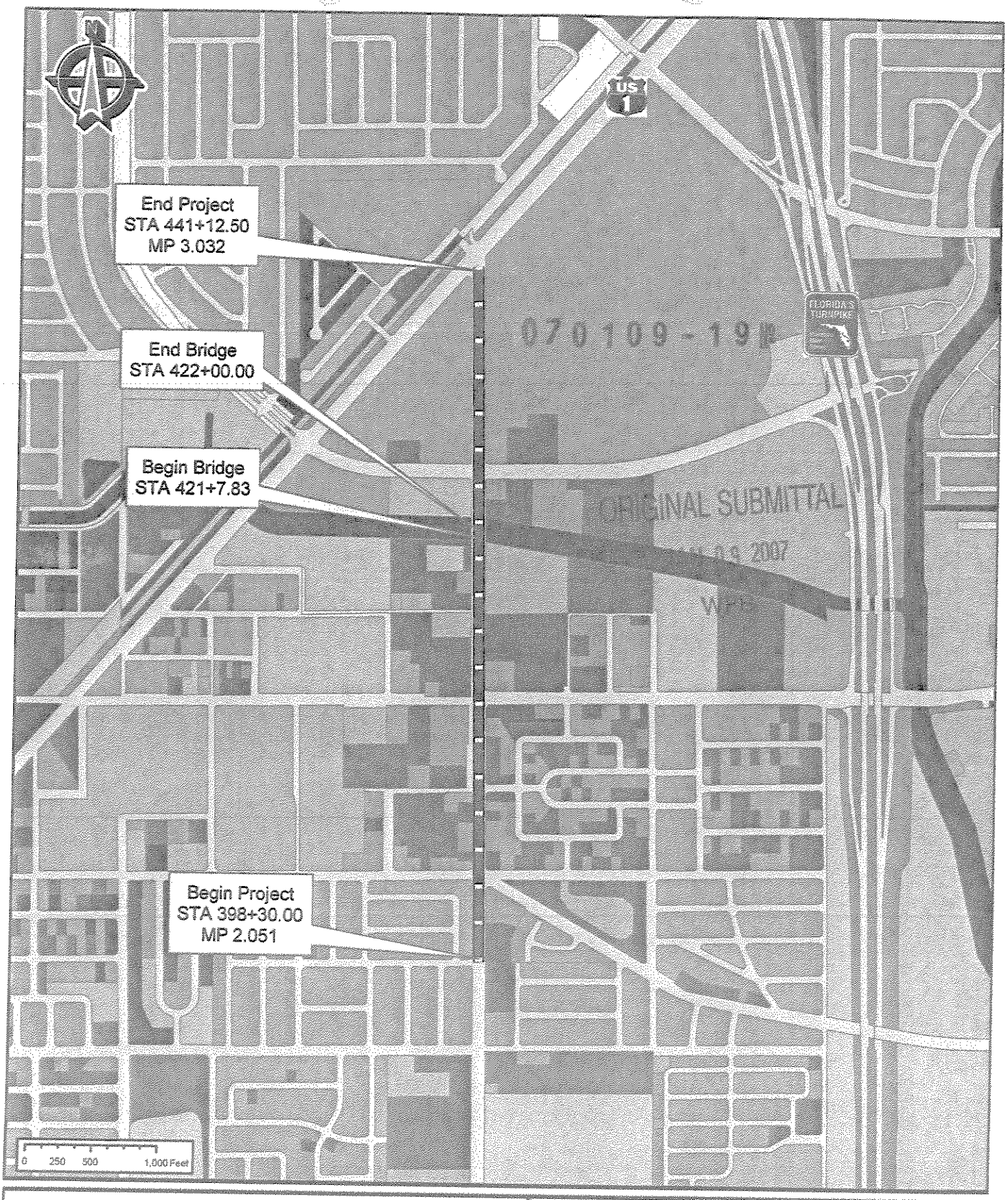


Source: Florida Geographic Data Library
Project: SR 989 / SW 112th Avenue / Allapattah Road from SW 222nd Street to US1 / SR 5
FM #: 414621-1-52-01
Scale: 1 in = 1,000 ft

SOILS MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL MANAGEMENT OFFICE

Figure 4A

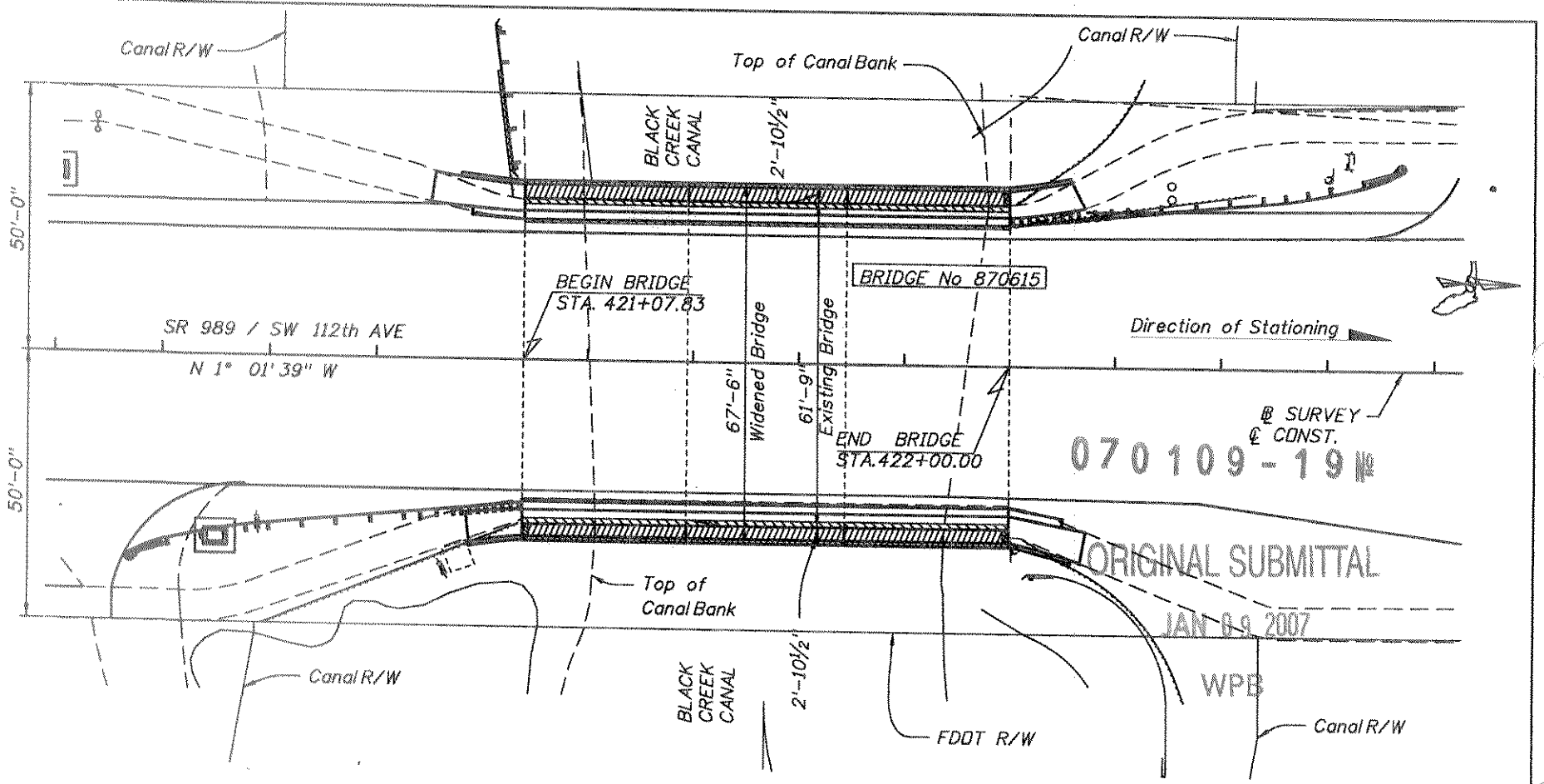


Source: Florida Geographic Data Library
Project: SR 989 / SW 112th Avenue / Allapattah Road from SW 222nd Street to US1 / SR 5
FM #: 414621-1-52-01
Scale: 1 in = 1,000 ft

F.L.U.C.F.C.S. MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL MANAGEMENT OFFICE

Figure 5A



070109-19

ORIGINAL SUBMITTAL

JAN 09 2007

WPB

PLAN

LEGEND:

PROPOSED BRIDGE SUPERSTRUCTURE WIDENING

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Proposed Dredge	S.F.	0
Proposed Fill	S.F.	0
Proposed Shading Impact	S.F.	414

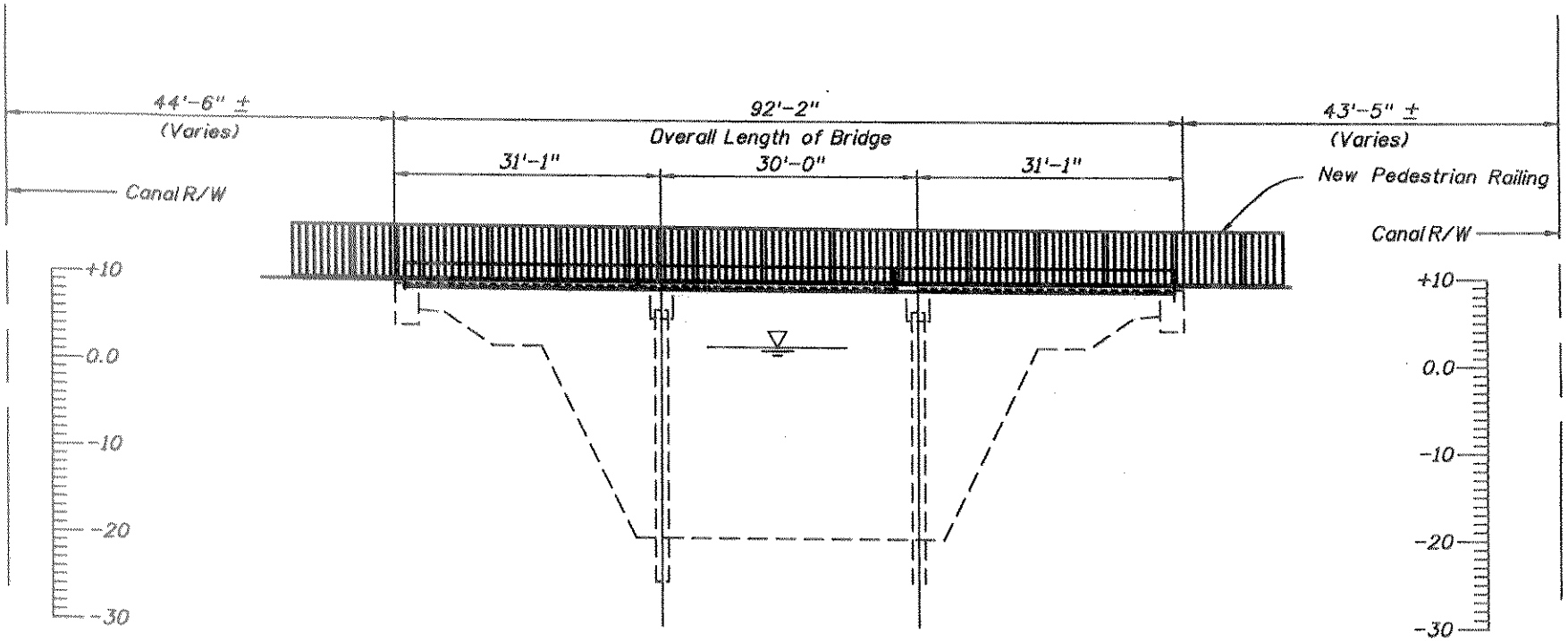
12-22-06

BRIDGE No. 870615

STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172

SR 989 (SW 112 AVE.)

BRIDGE OVER BLACK CREEK CANAL



ELEVATION

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Proposed Dredge	C.Y.	0
Proposed Fill	C.Y.	0

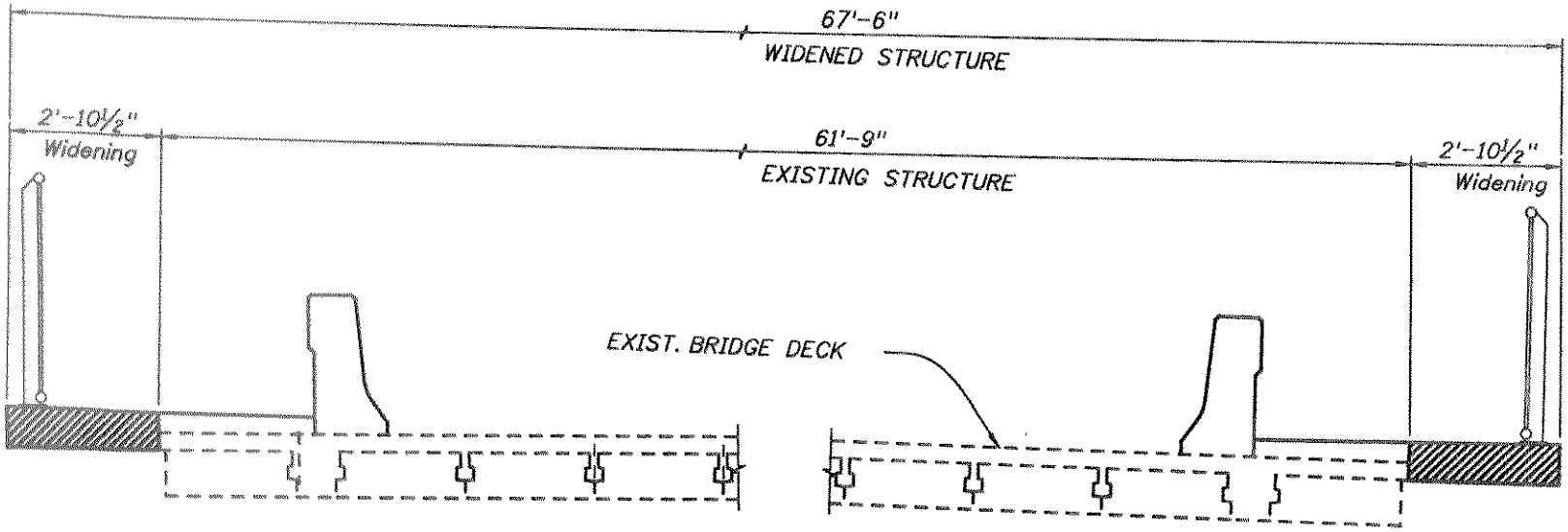
12-22-06

BRIDGE No. 870615

STRUCTURES DESIGN OFFICE
DISTRICT 6
1000 N.W. 111th Avenue
Miami, Florida 33172

SR 989 (SW 112 AVE.)

BRIDGE OVER BLACK CREEK CANAL



070109-19

PROPOSED BRIDGE SECTION

ORIGINAL SUBMITTAL
JAN 09 2007
WPB

PROPOSED BRIDGE SUPERSTRUCTURE WIDENING

12-22-06

BRIDGE NO. 870615

STRUCTURES DESIGN OFFICE DISTRICT 6 1000 N.W. 111th Avenue Miami, Florida 33172	SR 989 (SW 112 AVE.)	BRIDGE OVER BLACK CREEK CANAL