

REFERENCE: US DEPARTMENT OF AGRICULTURE, "LEE COUNTY, FLORIDA"
 TOWNSHIP: 47S ISSUED: 1981:
 RANGE: 26E PHOTO: -
 SECTION: 31 SCALE: N.T.S.:

APPROXIMATE
PROJECT LOCATION

REFERENCE: USGS TOPOGRAPHICAL MAPS, "BONITA SPRINGS, FLORIDA"
 TOWNSHIP: 47S ISSUED: 1927:
 RANGE: 26E PHOTO: -
 SECTION: 31 SCALE: N.T.S.:

APPROXIMATE
PROJECT LOCATION

REVISIONS					TERRA Geotechnical and Materials Engineering 1015 Professional Plaza, Suite 4 Bonita Springs, FL 34135 (813) 997-1100 FAX: (813) 997-1101 E-MAIL: info@terra-engineering.com	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS I-75 OVER IMPERIAL RIVER	SHEET NO.
NO.	DATE	DESCRIPTION	BY	DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
1						SR-95	LEE	406225-2-52-01		

BORING LOCATION PLAN

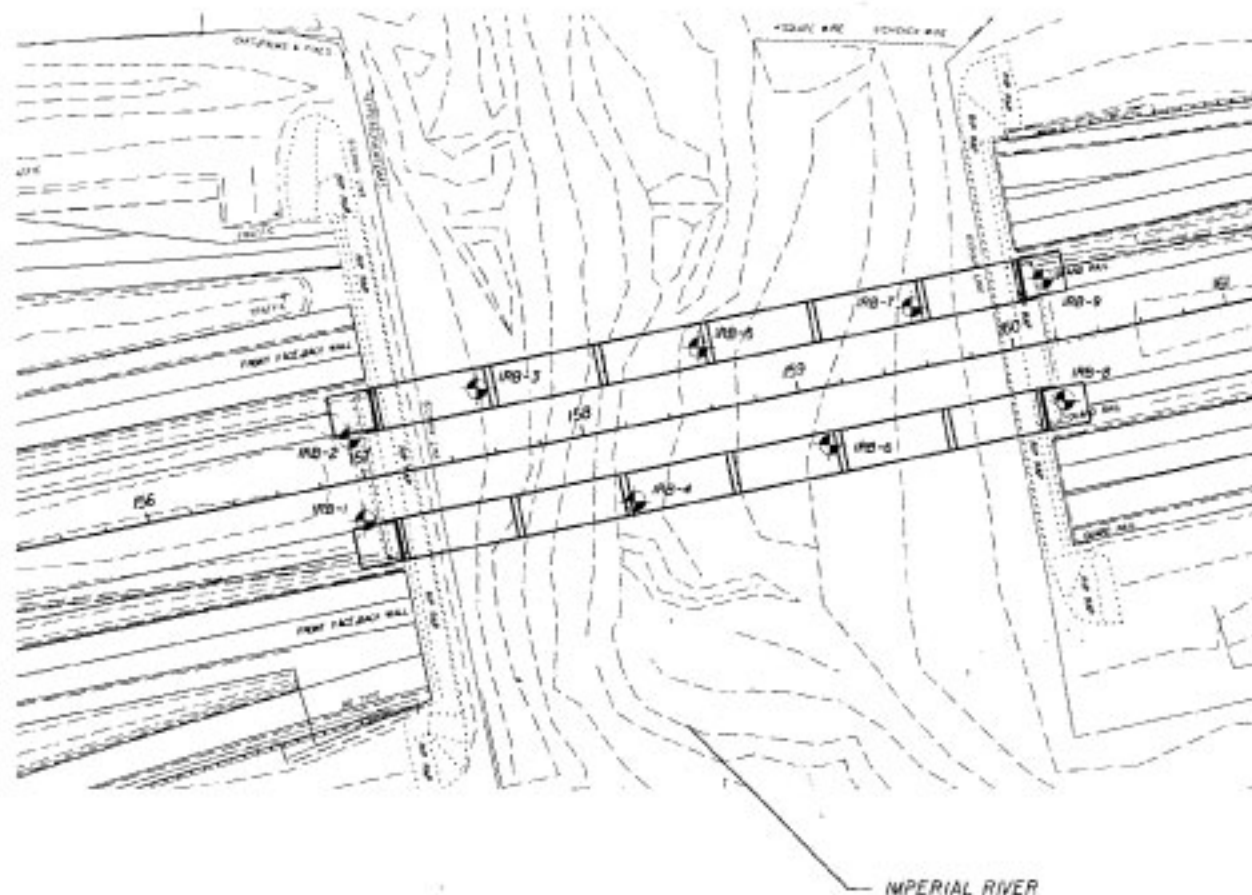


LOCATION	
TOWNSHIP	47 S
RANGE	26 E
SECTION	9



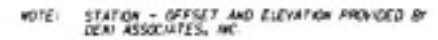
LEGEND

APPROXIMATE LOCATION OF SPT BORING



REVISIONS				DESCRIPTION	TIERRA Geotechnical and Materials Engineering 1000 Professional Plaza, Suite 4 Tampa, Florida 33607 (813) 987-0001 FL C.E.T. NO. 5470 Engineer of Record: James A. Davis, P.E. No. 5470	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS I-75 OVER IMPERIAL RIVER	SHEET #0
#	REVISION	DATE	BY			ROAD NO.	COUNTY	FUNDING PROJECT NO.		
1						SR-93	LEE	406225-2-52-01		

LEGEND

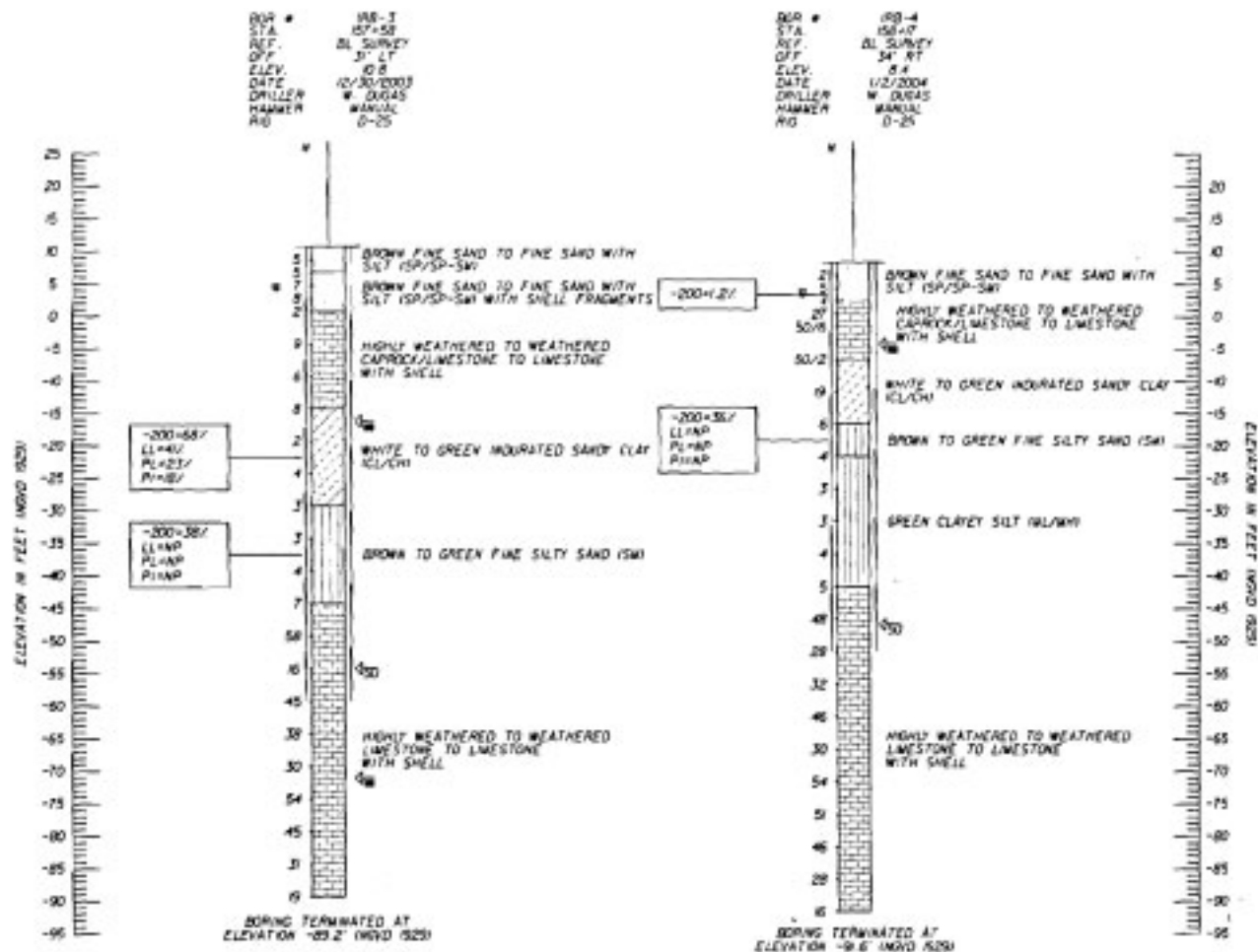


GRANULAR MATERIALS - RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5 TO 10
MEDIUM	11 TO 30
DENSE	31 TO 50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3 TO 4
FIRM	5 TO 9
STIFF	9 TO 15
VERY STIFF	16 TO 30
HARD	GREATER THAN 30

REVISIONS				TIERRA		STATE OF FLORIDA			SHEET NO.
1	2	DESCRIPTION	DATE	1	2	DEPARTMENT OF TRANSPORTATION			
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR-93	LEE	406225-2-52-01	

Geotechnical and Materials Engineering	REPORT OF CORE BORINGS 1-75 OVER IMPERIAL RIVER
705 Colquhoun Plaza, Suite 4	
Tampa, Florida 33607	
(813) 988-1984	
A. Carrillo, Owner	
Contract No. AAS-93-2001A, 2001B, 2001C, 2001D, 2001E, 2001F, 2001G, 2001H, 2001I, 2001J, 2001K, 2001L, 2001M, 2001N, 2001O, 2001P, 2001Q, 2001R, 2001S, 2001T, 2001U, 2001V, 2001W, 2001X, 2001Y, 2001Z, 2002A, 2002B, 2002C, 2002D, 2002E, 2002F, 2002G, 2002H, 2002I, 2002J, 2002K, 2002L, 2002M, 2002N, 2002O, 2002P, 2002Q, 2002R, 2002S, 2002T, 2002U, 2002V, 2002W, 2002X, 2002Y, 2002Z, 2003A, 2003B, 2003C, 2003D, 2003E, 2003F, 2003G, 2003H, 2003I, 2003J, 2003K, 2003L, 2003M, 2003N, 2003O, 2003P, 2003Q, 2003R, 2003S, 2003T, 2003U, 2003V, 2003W, 2003X, 2003Y, 2003Z, 2004A, 2004B, 2004C, 2004D, 2004E, 2004F, 2004G, 2004H, 2004I, 2004J, 2004K, 2004L, 2004M, 2004N, 2004O, 2004P, 2004Q, 2004R, 2004S, 2004T, 2004U, 2004V, 2004W, 2004X, 2004Y, 2004Z, 2005A, 2005B, 2005C, 2005D, 2005E, 2005F, 2005G, 2005H, 2005I, 2005J, 2005K, 2005L, 2005M, 2005N, 2005O, 2005P, 2005Q, 2005R, 2005S, 2005T, 2005U, 2005V, 2005W, 2005X, 2005Y, 2005Z, 2006A, 2006B, 2006C, 2006D, 2006E, 2006F, 2006G, 2006H, 2006I, 2006J, 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2066X, 2066Y, 2066Z, 2067A, 2067B,	

NOTICE: THE OFFICIAL RECORD OF THIS OFFICE IS THE ELECTRONIC FILE NUMBER AND MAIL ROOM NUMBER 6042-21003, PAGE 2.



ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: MODERATELY AGGRESSIVE
1500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM

SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE
1500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

WATER RESULTS:
RESISTIVITY 2,500 OHMS-CM
CHLORIDES 60 PPW
SULFATES 6.5 PPW
pH 7.3

SOIL RESULTS:
RESISTIVITY 8,500 TO 23,000 OHMS-CM
CHLORIDES 15 TO 30 PPW
SULFATES 2.4
pH 7.2 TO 8.1

GRAVULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5 TO 10
MEDIUM	10 TO 30
DENSE	30 TO 50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3 TO 4
FIRM	5 TO 9
STIFF	10 TO 15
VERY STIFF	16 TO 30
HARD	GREATER THAN 30

REV.	DATE	DESCRIPTION
1	12/30/2003	ISSUED FOR CONSTRUCTION

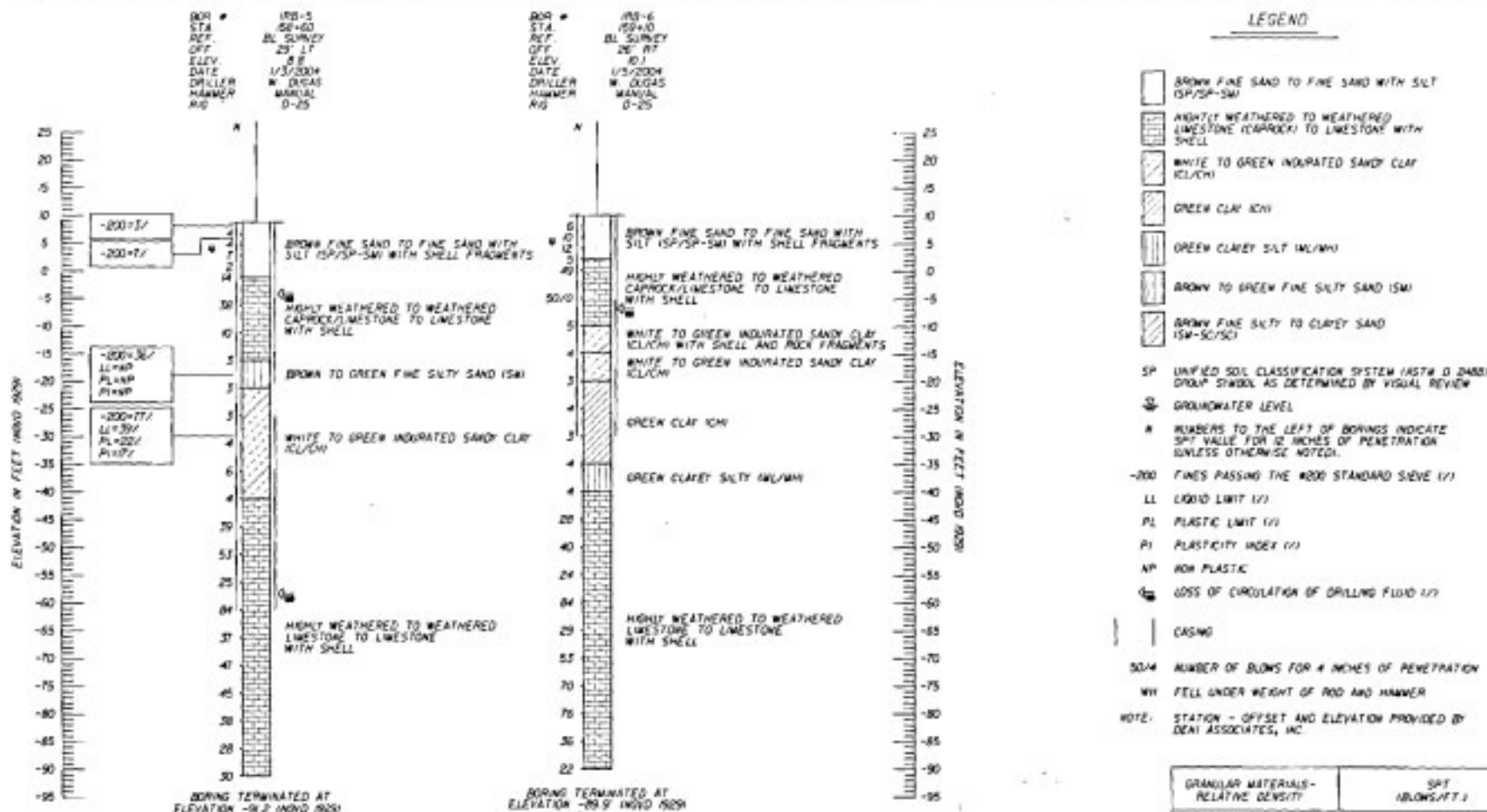
TIERRA
Geotechnical and Materials Engineering
7000 Highway 190, Suite 1
Tampa, Florida 33611
(813) 999-1100
FAX: (813) 999-1101
E-MAIL: TIERRA@TIERRA-INC.COM

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-93	LEE	ACE225-2-52-01

REPORT OF CORE BORINGS I-75 OVER IMPERIAL RIVER

SHEET
NO.

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SAVED AND SEALED UNDER RULE 6805-22.003, F.A.C.



ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: MODERATELY AGGRESSIVE
1500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM

SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE
1500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

WATER RESULTS:	2,500 OHMS-CM	SOIL RESULTS:	8,500 to 25,000 OHMS-CM
RESISTIVITY	60 PPM	RESISTIVITY	15 to 30 PPM
CHLORIDES	86 PPM	CHLORIDES	< 2.4
SULFATES	7.3	SULFATES	1.2 to 8.1
PH		PH	

GRANULAR MATERIALS - RELATIVE DENSITY	SPT BLOWS/FT.1
VERY LOOSE	LESS THAN 4
LOOSE	4 to 10
MEDIUM	10 to 30
DENSE	30 to 50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT BLOWS/FT.1
VERY SOFT	LESS THAN 2
SOFT	2 to 4
FIRM	4 to 9
STIFF	9 to 15
VERY STIFF	15 to 30
HARD	GREATER THAN 30

REVISIONS						TERRA			STATE OF FLORIDA			REPORT OF CORE BORINGS I-75 OVER IMPERIAL RIVER	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Geotechnical and Materials Engineering			DEPARTMENT OF TRANSPORTATION				
						7000 Professional Plaza, Suite 4 Tampa, Florida 33607 813-988-1314 F. J. Carr, Jr., P.E. Engineer of Record, License No. 10,000, P.E.			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
									SR-93	LEE	406223-2-52-01		

TIERRA
Geotechnical and Materials Engineering
7030 Fort Belvoir Road, Suite 4
Tampa, Florida 33617
(813) 980-0314
FAX (813) 980-0315
Engineer of Record: James A. Terry, P.E., No. 00049

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 60B5-21.001, F.A.C.

LEGEND

- BROWN FINE SAND TO FINE SAND WITH SILT (SP/SP-SM)
- HIGHLY WEATHERED TO WEATHERED LIMESTONE (CAPROCK) TO LIMESTONE WITH SHELL
- WHITE TO GREEN INDURATED SANDY CLAY (CL/CH)
- GREEN CLAY (CH)
- GREEN CLAYEY SILT (ML/MLH)
- BROWN TO GREEN FINE SILTY SAND (SM)
- BROWN FINE SILTY TO CLAYEY SAND (SM-SC/SC)

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2486)
GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW

GW GROUNDWATER LEVEL

N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 10 INCHES OF PENETRATION UNLESS OTHERWISE NOTED

-200 FINES PASSING THE #200 STANDARD SIEVE (%)

LL LIQUID LIMIT (%)

PL PLASTIC LIMIT (%)

PI PLASTICITY INDEX (%)

NP NON PLASTIC

OC LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

SO/H NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

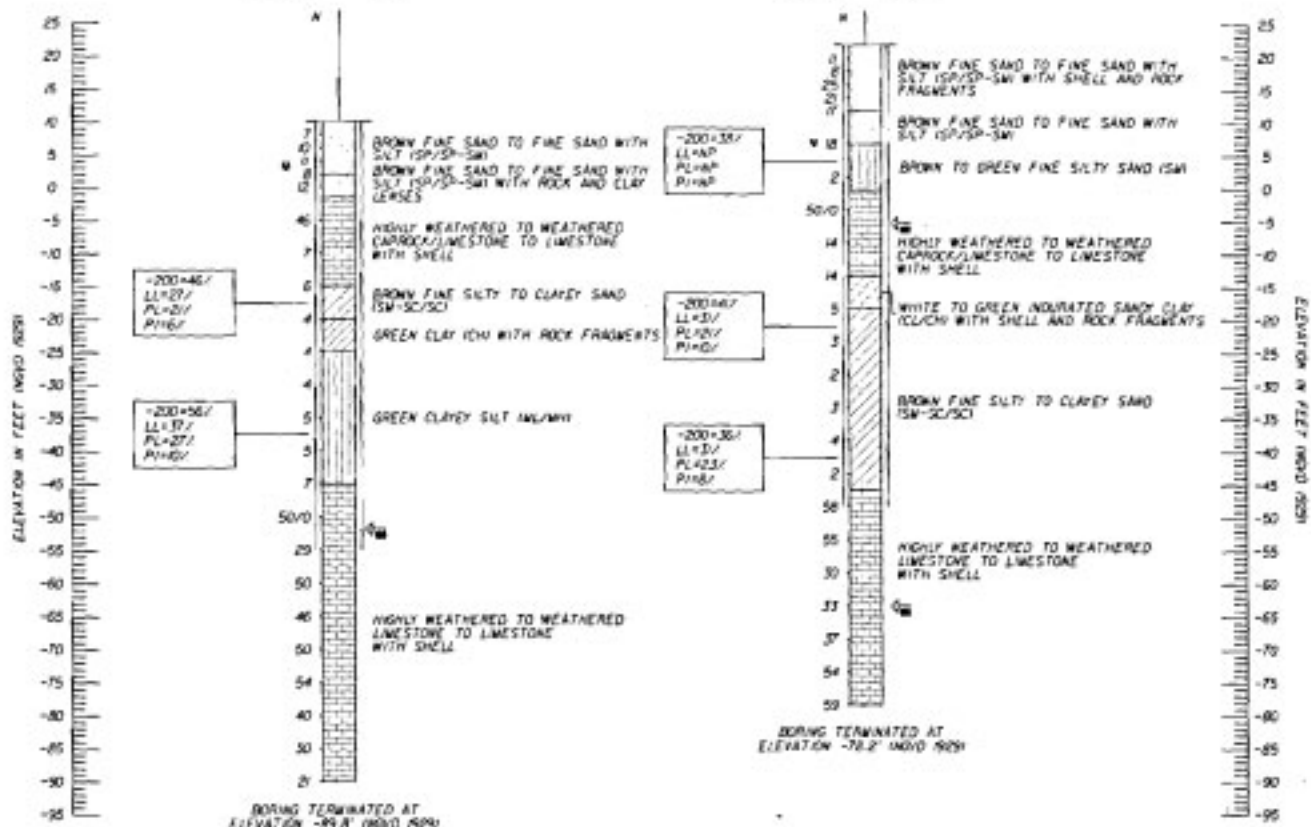
WH FELL UNDER WEIGHT OF ROD AND HAMMER

NOTE: STATION - OFFSET AND ELEVATION PROVIDED BY DEW ASSOCIATES, INC.

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5 TO 10
MEDIUM	11 TO 30
DENSE	31 TO 50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3 TO 4
FIRM	5 TO 10
STIFF	11 TO 15
VERY STIFF	16 TO 30
HARD	GREATER THAN 30

BOR # STA. REF. OFF. ELEV. DATE DRILLER HAMMER R/G
100-4 60+0 BL SURVEY 28' RT 2/8 3/5/2004 A. TORRES MARLA CMC-43

BOR # STA. REF. OFF. ELEV. DATE DRILLER HAMMER R/G
100-7 69+50 BL SURVEY 28' L 0/0 3/4/2004 M. DAGAS MARLA D-25



ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: MODERATELY AGGRESSIVE

1500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM

SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE

1500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

WATER RESULTS: RESISTIVITY 2,500 OHMS-CM SOIL RESULTS: RESISTIVITY 8,500 TO 25,000 OHMS-CM
CHLORIDES 60 PPM CHLORIDES 15 TO 30 PPM
SULFATES 7.3 SULFATES 1.2 TO 8.1

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS I-75 OVER IMPERIAL RIVER	SHEET NO.
DATE	BY	DESCRIPTION	DATE	ROAD NO.	COUNTY	PROJECT NO.		
				SR-93	LFE	405025-2-52-D1		

TIERRA
Geotechnical and Materials Engineering
10101 Northchase Parkway, Suite 200
Atlanta, Georgia 30328
Phone: (404) 251-1000
Fax: (404) 251-1001
E-Mail: info@tierra.com

LEGEND

- BROWN FINE SAND TO FINE SAND WITH SILT (SP/SP-SM)
- HIGHLY WEATHERED TO WEATHERED LIMESTONE (CAPROCK) TO LIMESTONE WITH SHELL
- WHITE TO GREEN INDURATED SANDY CLAY (CL/CLM)
- GREEN CLAY (OH)
- GREEN CLAYEY SILT (ML/WH)
- BROWN TO GREEN FINE SILTY SAND (SM)
- BROWN FINE SILTY TO CLAYEY SAND (SM-SC/SC)

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2485) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW

GROUNDWATER LEVEL

N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION UNLESS OTHERWISE NOTED

-200 FINES PASSING THE #200 STANDARD SIEVE (%)

LL LIQUID LIMIT (%)

PL PLASTIC LIMIT (%)

PI PLASTICITY INDEX (%)

NP FOR PLASTIC

LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

SD/N NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

WH FELL UNDER WEIGHT OF ROD AND HAMMER

NOTE: STATION - OFFSET AND ELEVATION PROVIDED BY DENI ASSOCIATES, INC.

GRANULAR MATERIALS - RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5 TO 10
MEDIUM	11 TO 30
DENSE	31 TO 50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3 TO 4
FIRM	5 TO 9
STIFF	10 TO 15
VERY STIFF	16 TO 30
HARD	GREATER THAN 30

ENVIRONMENTAL CLASSIFICATION:

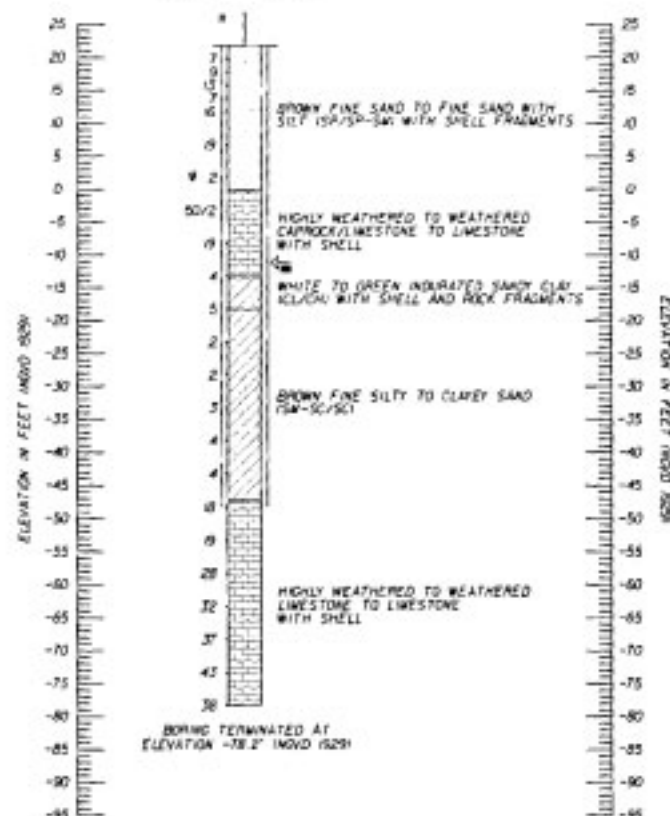
SUBSTRUCTURE CONCRETE: MODERATELY AGGRESSIVE
(500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM)

SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE
(500 OHMS-CM < RESISTIVITY < 3,000 OHMS-CM)

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

WATER RESULTS:	2,500 OHMS-CM	SOIL RESULTS:	5,000 TO 23,000 OHMS-CM
RESISTIVITY	80 PPM	RESISTIVITY	15 TO 30 PPM
CHLORIDES	6.5 PPM	CHLORIDES	1.2 TO 2.4
SULFATES	7.3	SULFATES	7.2 TO 8.1
PH		PH	

BOR # 100-9
STA 40+00
REF. BY SURVEY
OFF. 28.17
ELEV. 21.0
DATE 3/5/2004
DRILLER A. TORRES
HAMMER MANUAL
RIG CM2-40



BORING TERMINATED AT
ELEVATION -78.2' (MD 1529)

REVISIONS						TERRA Geotechnical and Materials Engineering 700 S. GULF BLVD., SUITE 100 FORT MYERS, FL 33901 P. 889-1100 F. 889-1101 FAX 889-1102	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS I-75 OVER IMPERIAL RIVER	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		REQ. NO.	CITY	FISCAL PROJECT NO.		
							SR-93	LEE	405225-2-52-Q		

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