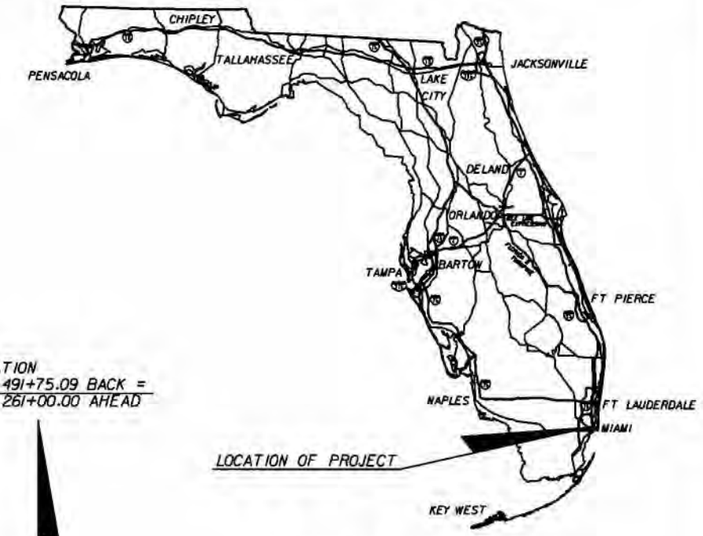
COMPONENTS OF SEGMENT CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
LIGHTING PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINAL AS-BUILTS PLANS

FINANCIAL PROJECT ID 249035-1-52-01
(FEDERAL FUNDS)
MIAMI-DADE COUNTY (87260)
STATE ROAD NO. 826 (PALMETTO EXPRESSWAY)
SECTION 2



LOCATION OF PROJECT

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

1	KEY SHEET
PR-1 - PR-4	PLANS REVISIONS

REFER TO THE KEY SHEET OF EACH SEGMENT:

SEGMENT 1: SR 826 FROM BEGIN PROJECT TO MILLER DRIVE

SEGMENT 2: MILLER DRIVE PLANS

SEGMENT 3: SR 826 FROM MILLER DRIVE TO CSXT R/R TRACKS

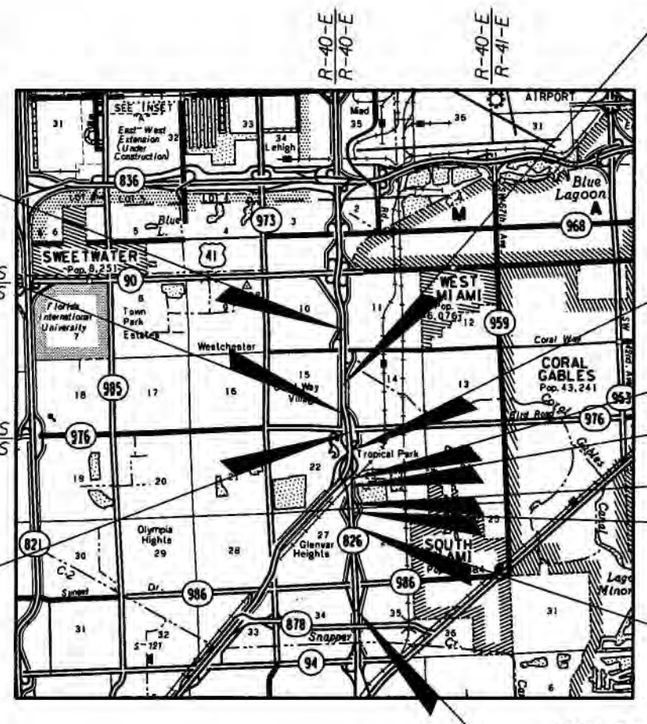
SEGMENT 4: SR 826/SR 874 SYSTEM-TO -SYSTEM INTERCHANGE PLANS (UP TO STA.440+00.00)

SEGMENT 5: SR 826 FROM STA. 440+00.00 TO BIRD ROAD (SR. 976)

SEGMENT 6: SR 826 FROM BIRD ROAD (SR. 976) TO END PROJECT

SEGMENT 7: BIRD ROAD (SR 976) PLANS

EQUATION
STA 491+75.09 BACK =
STA 261+00.00 AHEAD



END PROJECT
STA 295+40.00 ℄ S.R. 826

END BRIDGE No. 8
STA. 462+04.60

T-53-S
T-54-S

T-54-S
T-54-S

BEGIN BRIDGE NO. 8
STA 460+44.18

N

0 1 2
MILES

EQUATION
STA. 105+92.37 S.R. 874 BACK =
STA 434+01.57 AHEAD

END BRIDGE NO. 6
STA 424+21.75

BEGIN BRIDGE NO. 6
STA 420+91.75

END BRIDGE NO. 1
STA 406+74.11

BEGIN BRIDGE NO. 1
STA 405+14.36

EQUATION
STA. 125+00.00 BACK =
STA 373+74.18 AHEAD

BEGIN PROJECT
STA 96+00.00
M.P. 1.8048 (NB)

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

ARIEL MILLAN
7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351

NAME OF CONTRACTOR CONDOTTE DEMOYA JV
NAME OF ALL CONSULTANTS INVOLVED
BCC ENGINEERING, TYLIN INTERNATIONAL, FR ALEMAN & ASSOCIATES, GEOSOL, INC.

RESIDENT ENGINEER ERIK PADRON, PE
SENIOR PROJECT ENGINEER STEVEN McCUE, PE
DISTRICT SECRETARY GUS PEGO
DATE WORK STARTED 11/10/2008
DATE WORK CONDITIONAL AND ACCEPTED
DATE WORK FINAL ACCEPTANCE OR COMPLETED MARCH 2, 2012

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008,
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01-01-08
For Design Standards Modifications click on "Design Standards" at the following web site:
http://www.dot.state.fl.us/rddesign/

REVISIONS:

REFER TO SHEETS PR-1 TO PR-4 FOR A LIST OF ALL PLANS REVISIONS

PROJECT LENGTH IS BASED ON ℄ OF CONSTRUCTION SR 826 NB

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	17,490.74	3.313
BRIDGES	650.17	0.123
NET LENGTH OF PROJECT	18,140.91	3.436
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	18,140.91	3.436

KEY SHEET REVISIONS	
DATE	DESCRIPTION

PLANS PREPARED BY

bcc engineering
7300 N Kendal Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351
Certificate of Authorization No. 7184

Certificate of Authorization No. 7184
Contract No: E-6C66
Vendor Identification No: 65-0540100

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

ROADWAY PLANS
ENGINEER OF RECORD: ARIEL MILLAN, P.E.

P.E. NO. 54572

ARIEL MILLAN
LICENSE
NO. 54572
STATE OF FLORIDA
PROFESSIONAL ENGINEER
3/22/12

VERIFIED BY CEI RESPONSIBLE ENGINEER
NEW MILLENNIUM ENGINEERING, INC.
7294 SW 48 STREET, SUITE 4-A
MIAMI, FLORIDA 33155

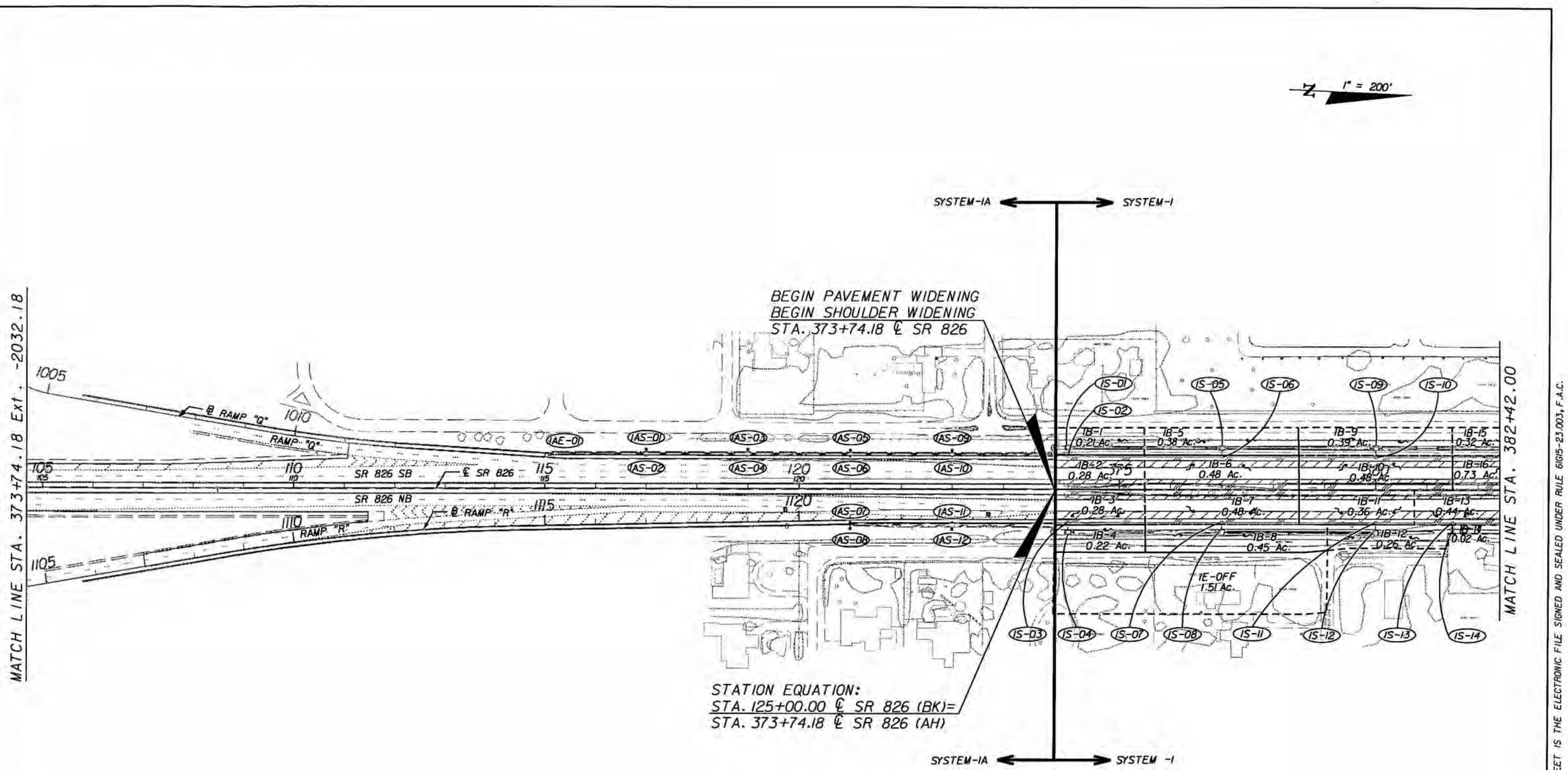
THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THOSE CHANGES ARE INDICATED BY BLACK INK REVISION AND BEAR THE SEAL AND SIGNATURE OF THE RESPONSIBLE PROFESSIONAL ENGINEER.

3/22/12

FDOT PROJECT MANAGER: JASON CHANG, P.E.

FISCAL YEAR	SHEET NO.
08	1

$USER$ $DATE$ $TIME$ $FILE$



6/5/09

NOTE:

SYSTEM IA WILL NOT BE MODELED BECAUSE WE HAVE THE SAME IMPERVIOUS AREA AS IN THE PRE-DEVELOPMENT CONDITION.
PRE-DEVELOPMENT CONDITION OF OPEN SHOULDER IS BEING REPLACED WITH BARRIER WALL AND INLET.

RELEASED FOR CONSTRUCTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bcc engineering
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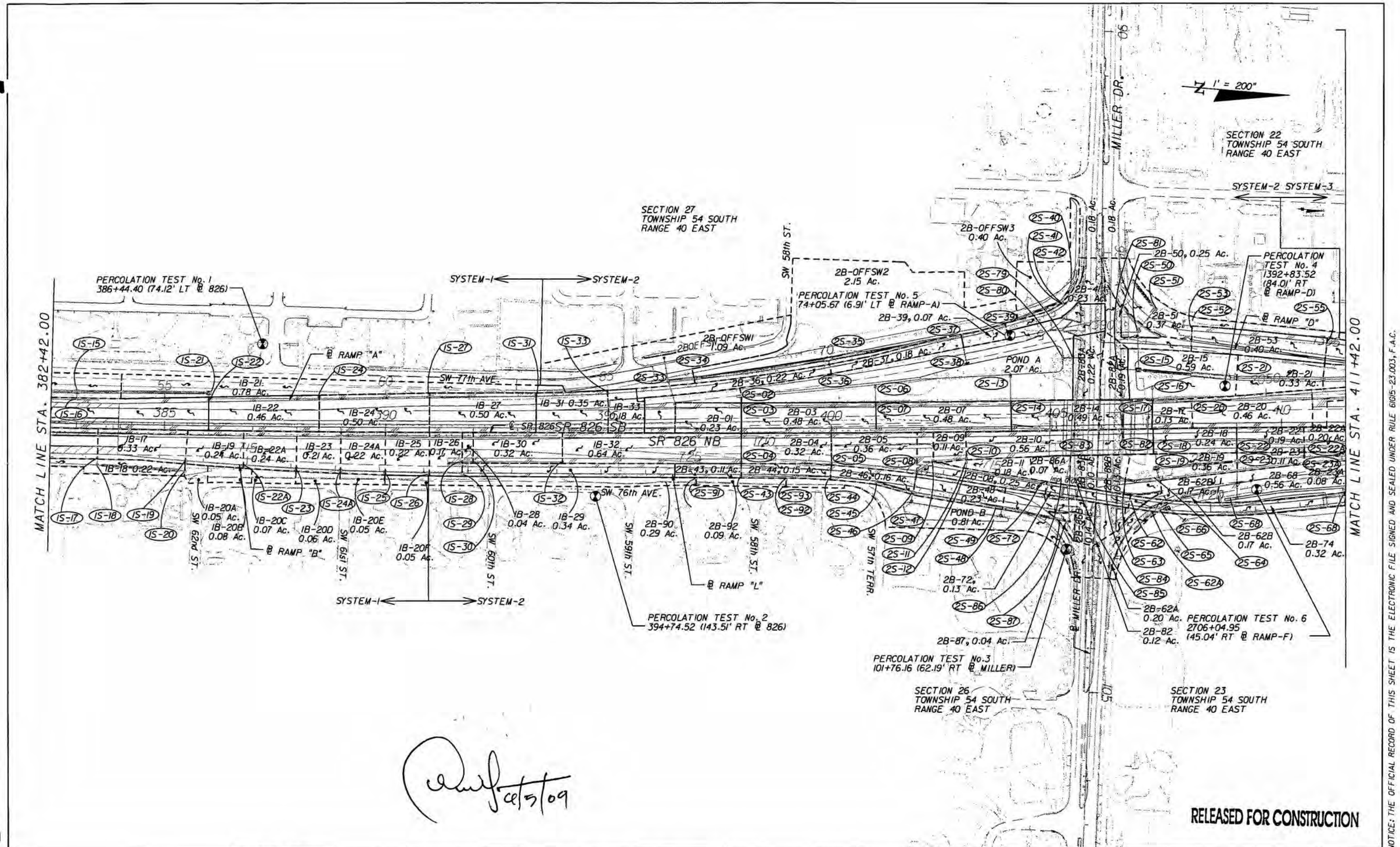
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE MAP

PAGE NO. 1-2

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



RELEASED FOR CONSTRUCTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bc engineering
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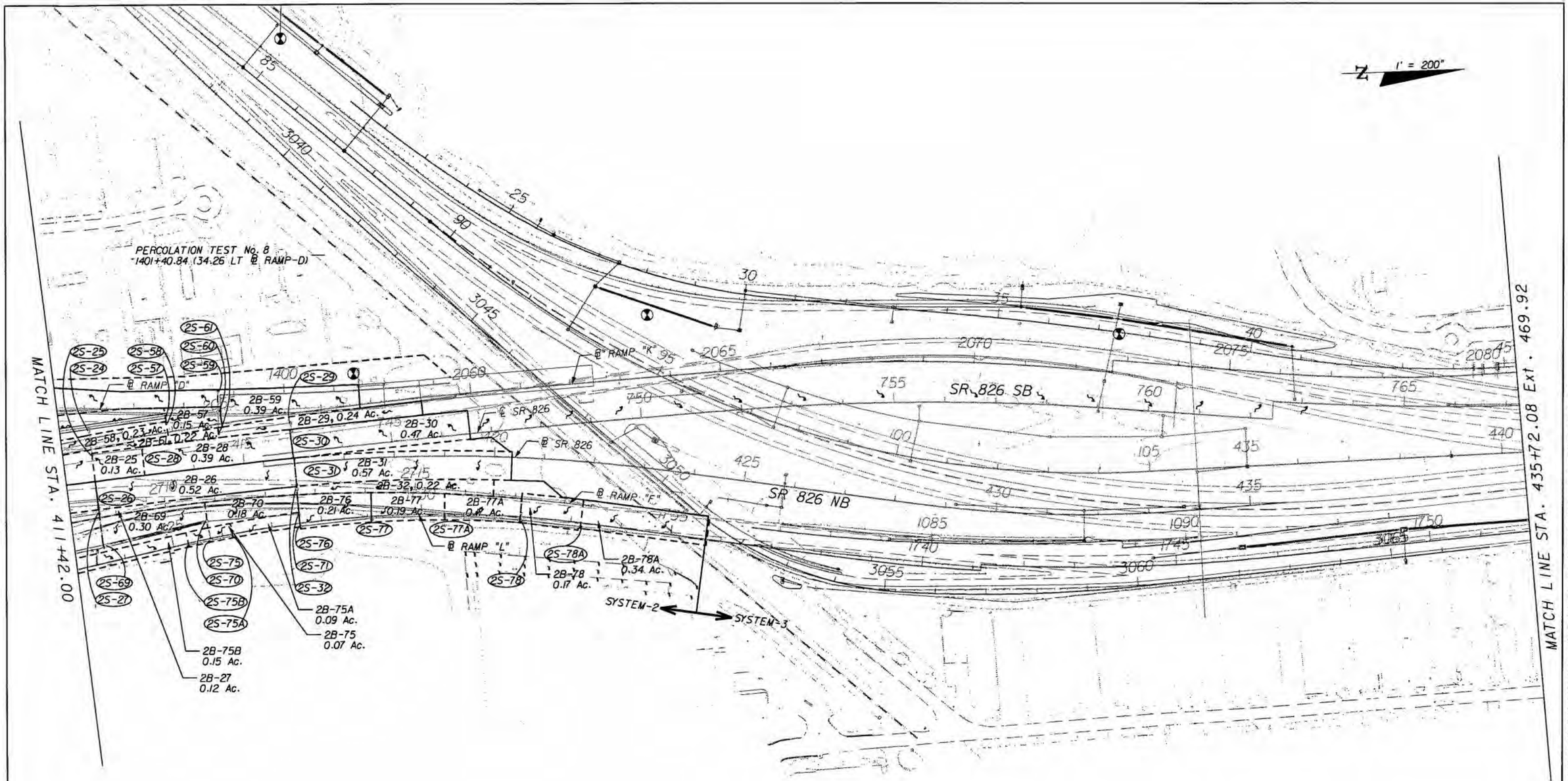
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE MAP

PAGE NO. 1-3



6/5/09

RELEASED FOR CONSTRUCTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bec engineering
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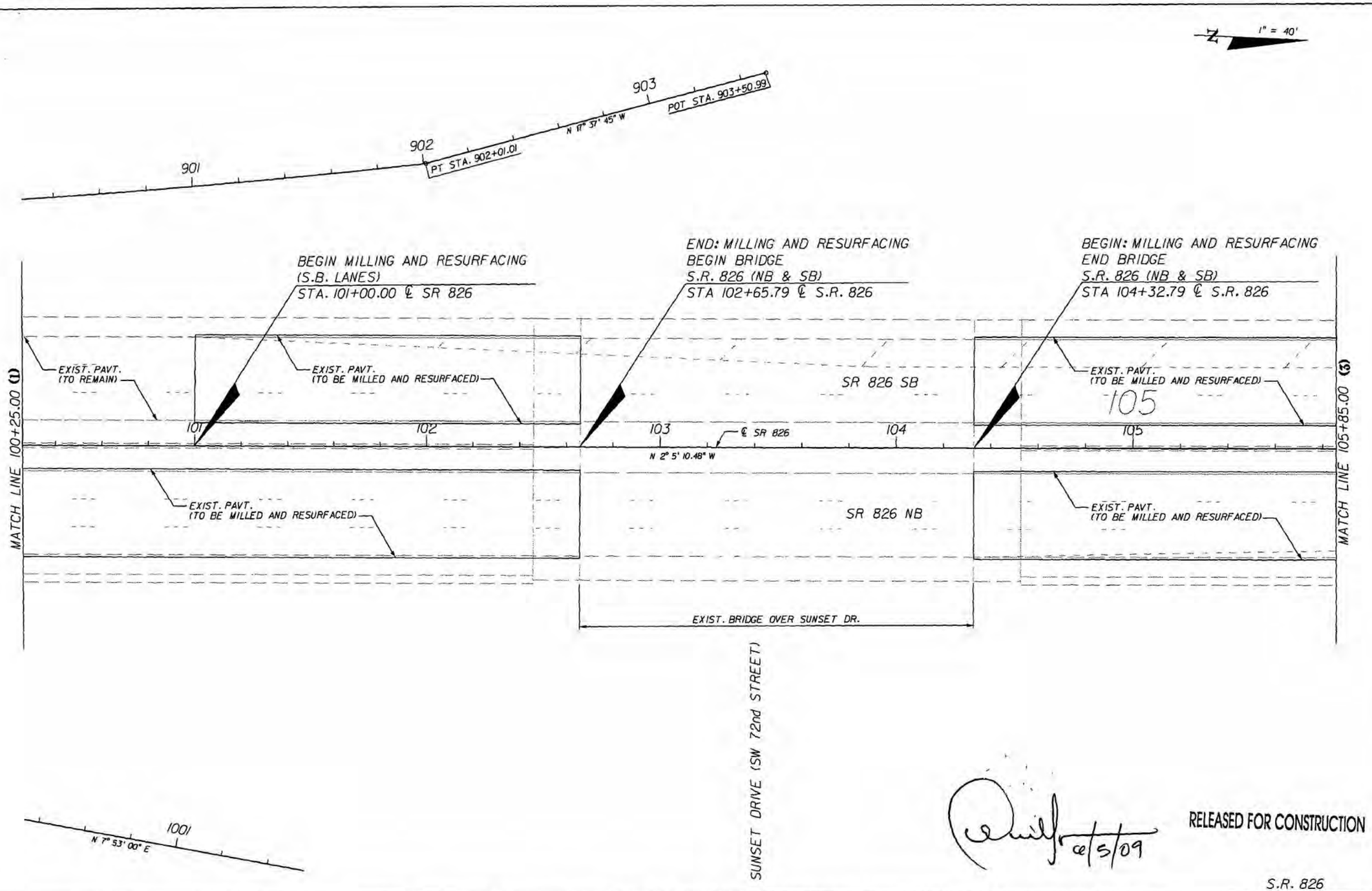
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE MAP

PAGE NO. 1-4



RELEASED FOR CONSTRUCTION

6/5/09

S.R. 826

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bac engineering
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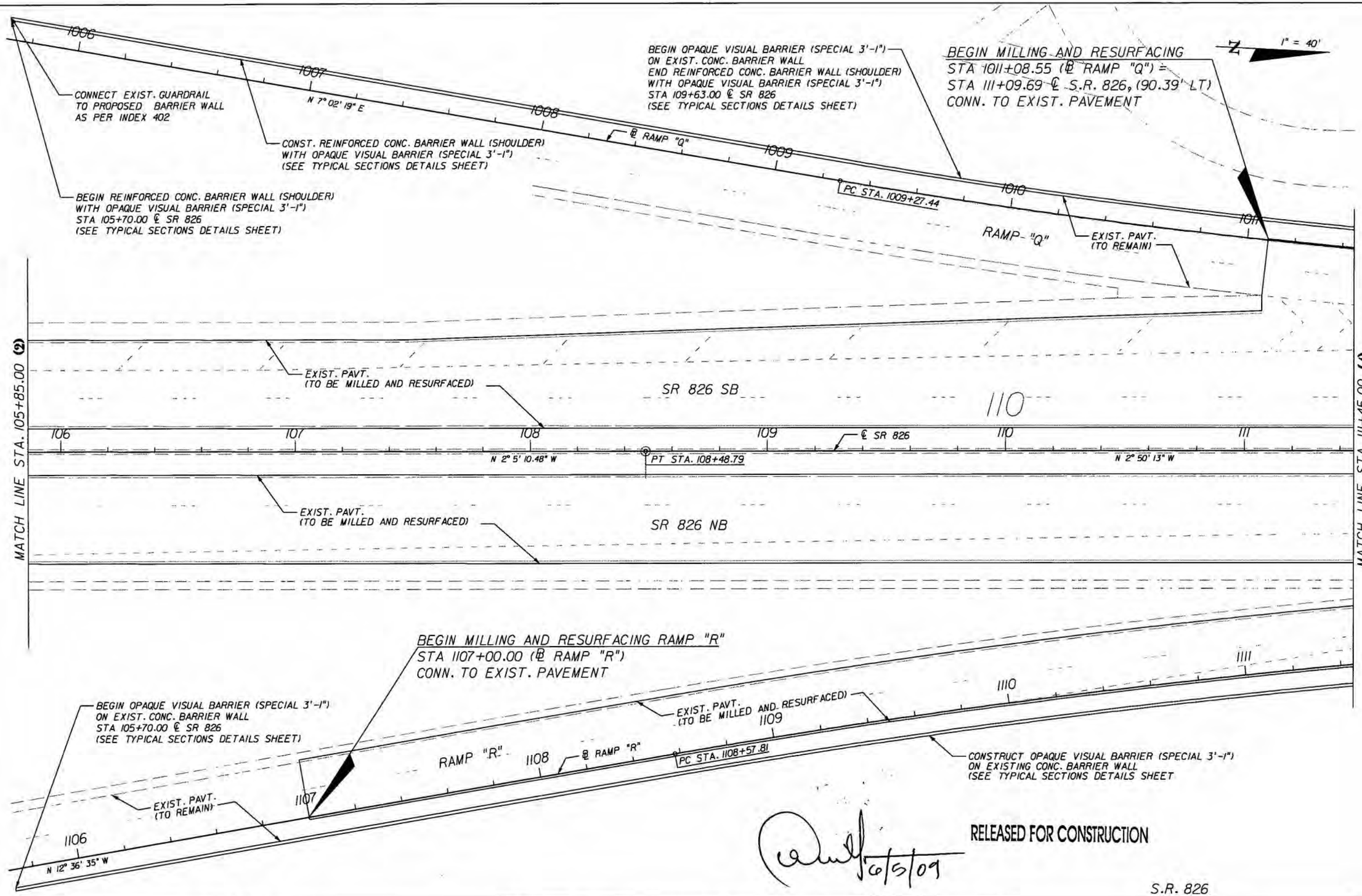
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (2)

SHEET NO. 1-18



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bac engineering
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (3)

SHEET NO. 1-19

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

1" = 40'

END ℄ RAMP "Q"
STA 1012+37.12 (℄ RAMP "Q") =
STA 112+37.77 ℄ S.R. 826, (79.26' LT)

SW 77th AVE.

CONSTRUCT OPAQUE VISUAL BARRIER (SPECIAL 3'-1") ON EXISTING CONC. BARRIER WALL (SEE TYPICAL SECTIONS DETAILS SHEET)

END OPAQUE VISUAL BARRIER (SPECIAL 3'-1") ON EXIST. CONC. BARRIER WALL
BEGIN REINFORCED CONC. BARRIER WALL (SHOULDER) WITH OPAQUE VISUAL BARRIER (SPECIAL 3'-1")
STA 115+14.00 ℄ SR 826
CONNECT TO EXIST. CONC. BARRIER WALL
(SEE MISCELLANEOUS DRAINAGE DETAILS SHEET)

STA. 115+24.30 (76.8' LT)
CONST. U-TYPE EW (18")
F.L. EL. 7.53
(INDEX 261)

CONST. 7.5 LF OF 18" PIPE

CONST. REINFORCED CONC. BARRIER WALL (SHOULDER) WITH OPAQUE VISUAL BARRIER (SPECIAL 3'-1")
(SEE MISCELLANEOUS DRAINAGE DETAILS SHEET)

EXIST. GUARDRAIL (TO BE REMOVED)

CONST. 7.5 LF OF 18" PIPE

CONST. 15" SLOTTED DRAIN

(IAS-01)

(IAS-1A)

(IAS-1B)

(IAS-02)

℄ RAMP "Q" 1012

PT STA. 1012+37.12

BEGIN SHOULDER MILLING AND RESURFACING
STA. 115+00.00

SHOULDER MILLING AND RESURFACING

EXIST. PAVT. (TO BE MILLED AND RESURFACED)

STA. 115+24.30
CONST. SPECIAL BARRIER WALL INLET
GRATE EL. (MATCH TO EXISTING SHOULDER EL. AND CROSS SLOPE)
F.L. EL. 8.1 (LT & AH)
(SEE INSET "A")

BEGIN SLOTTED DRAIN
STA. 115+50.00
(SEE MISC. DRAINAGE DETAILS SHEET)

49

SR 826 SB

EXIST. CONC. BARRIER WALL (TO REMAIN)

℄ SR 826

112 113 114 115 116 117

N 2° 50' 13" W

EXIST. CONC. BARRIER WALL (TO REMAIN)

SR 826 NB

EXIST. PAVT. (TO BE MILLED AND RESURFACED)

1112 1113 1114 1115 1116 1117

℄ RAMP "R"

PT STA. 1114+32.96

MATCH LINE STA. 111+45.00 (3)

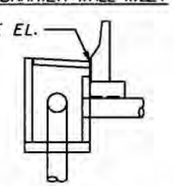
MATCH LINE STA. 117+05.00 (5)

RELEASED FOR CONSTRUCTION

CONSTRUCT OPAQUE VISUAL BARRIER (SPECIAL 3'-1") ON EXISTING CONC. BARRIER WALL (SEE TYPICAL SECTIONS DETAILS SHEET)

SPECIAL BARRIER WALL INLET

GRATE EL.



1. MATCH CROSS SLOPE OF GRATE WITH EXISTING SHOULDER
2. STRUCTURE MUST BE WITHOUT JOINT (1-PIECE), TO AVOID CONFLICT BETWEEN PIPE AND STANDARD INLET COLLAR.

INSET "A"

49

ARIEL MILLAN LICENSE No. 54572 STATE OF FLORIDA PROFESSIONAL ENGINEER
1/25/11

S.R. 826

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
1/25/11	49 ADDED STRUCTURES IAS-1A & IAS-1B REVISED SLOTTED DRAIN LENGTH		

bac engineering
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Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (4)

SHEET NO. 1-20

1" = 40'

SW 67th TERR.

SW 77th AVE.

EXIST. FENCE (TO REMAIN)

CONST. REINFORCED CONC. BARRIER WALL (SHOULDER) WITH OPAQUE VISUAL BARRIER (SPECIAL 3'-1") (SEE MISCELLANEOUS DRAINAGE DETAILS SHEET)

IAS-03 CONST. 7.5 LF OF 18" PIPE

IAS-05 CONST. 7.0 LF OF 18" PIPE

EXIST. GUARDRAIL (TO BE REMOVED)

SHOULDER MILLING AND RESURFACING

CONST. 15" SLOTTED DRAIN

IAS-04

CONST. 15" SLOTTED DRAIN

IAS-06

CONST. 15" SLOTTED DRAIN

EXIST. PAVT. (TO BE MILLED AND RESURFACED)

SR 826 SB

MATCH LINE STA. 117+05.00 (4)

118 119 ℄ SR 826 120 121 122

N 2° 50' 13" W

EXIST. CONC. BARRIER WALL (TO REMAIN)

EXIST. PAVT. (TO BE MILLED AND RESURFACED)

BEGIN LANES 3 & 4 RECONSTRUCTION STA. 120+00.00 ℄ SR 826

25'

25'

SR 826 NB

EXIST. PAVT. (TO BE MILLED AND RESURFACED)

BEGIN SLOTTED DRAIN STA. 121+01.75 (SEE MISC. DRAINAGE DETAILS SHEET)

SAW CUT

BEGIN SHOULDER RECONSTRUCTION STA. 120+00.00

IAS-07

CONST. 15" SLOTTED DRAIN

1118 ℄ RAMP "R" 1119 1120 1121 1122

N 3° 58' 58" W

MATCH LINE STA. 122+65.00 (6)

CONST. 7.0 LF OF 18" PIPE

IAS-08

CONSTRUCT OPAQUE VISUAL BARRIER (SPECIAL 3'-1") ON EXISTING CONC. BARRIER WALL (SEE TYPICAL SECTIONS DETAILS SHEET)

END OPAQUE VISUAL BARRIER (SPECIAL 3'-1") ON EXISTING CONC. BARRIER WALL
BEGIN REINFORCED CONC. BARRIER WALL (SHOULDER) WITH OPAQUE VISUAL BARRIER (SPECIAL 3'-1")
STA. 121+00.00± ℄ SR 826
CONNECT TO EXIST. CONC. BARRIER WALL
(SEE MISCELLANEOUS DRAINAGE DETAILS SHEET)

EXISTING GUARDRAIL (TO BE REMOVED)

EXIST. FENCE (TO REMAIN)

CONST. REINFORCED CONC. BARRIER WALL (SHOULDER) WITH OPAQUE VISUAL BARRIER (SPECIAL 3'-1") (SEE MISCELLANEOUS DRAINAGE DETAILS SHEET)

SW 76th AVE.

END ℄ RAMP "R"
STA 1122+06.85 (℄ RAMP R) =
STA 122+06.84 ℄ S.R. 826, (59.50' RT)

SW 67th ST.

RELEASED FOR CONSTRUCTION

S.R. 826

DIONISIO FELIPE TORRES LICENSE No. 58196 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/10/11

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	70 CHANGED MILLING & RESURFACING AND NEW CONSTRUCTION LIMITS		

engineering

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7300 N Kendall Drive, Suite 400
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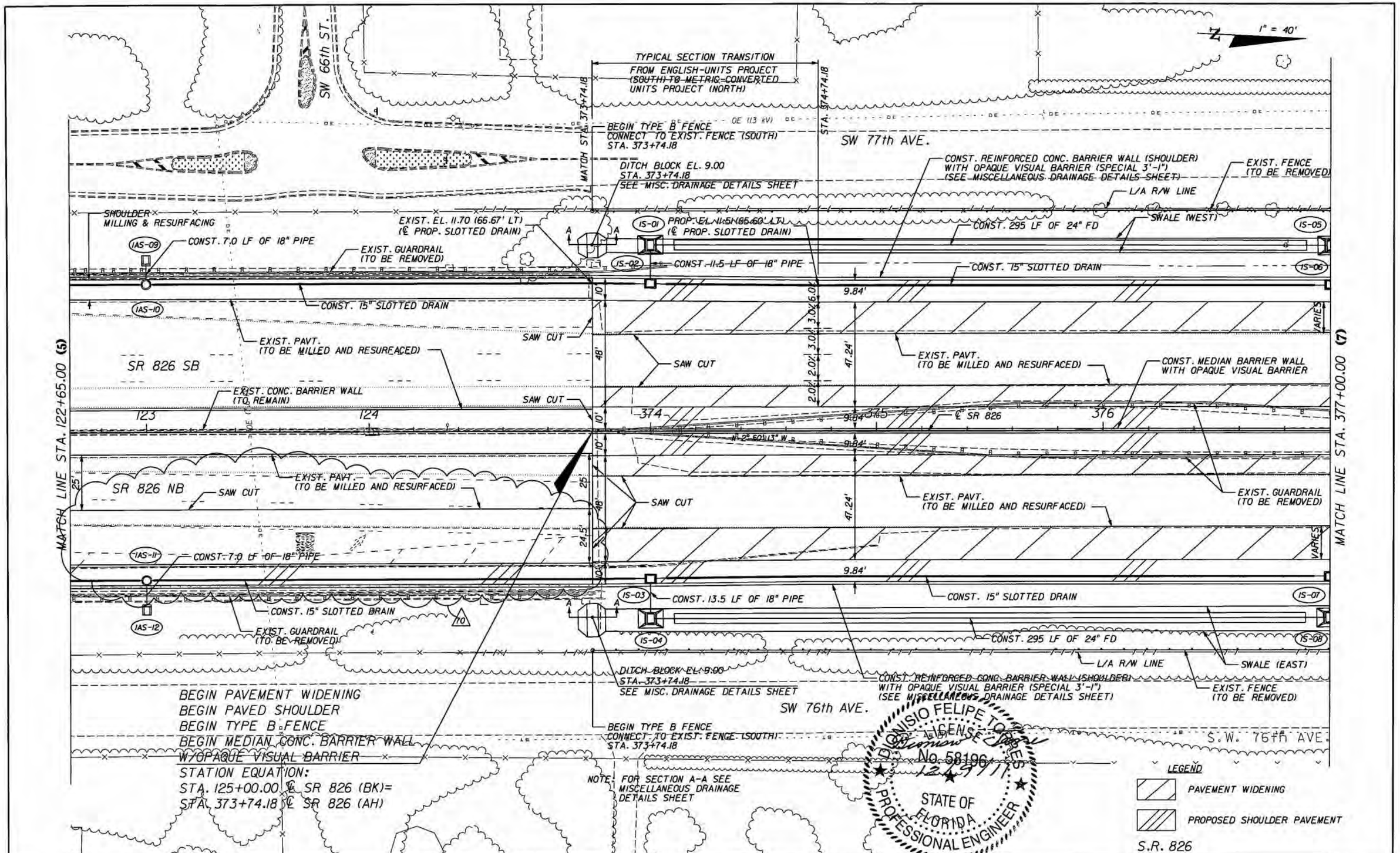
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (5)

SHEET NO. 1-21

$USER$ $DATE$ $TIME$ $FILE$



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	70 CHANGED MILLING & RESURFACING AND NEW CONSTRUCTION LIMITS		

engineering
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

RELEASED FOR CONSTRUCTION

ROADWAY PLANS (6)

SHEET NO. 1-22

$USER$ $DATE$ $TIME$ $FILE$

1" = 40'

SW 77th AVE.

CONST. REINFORCED CONC. BARRIER WALL (SHOULDER) WITH OPAQUE VISUAL BARRIER (SPECIAL 3'-1") (SEE MISCELLANEOUS DRAINAGE DETAILS SHEET)

EXIST. FENCE (TO BE REMOVED)

TYPE B FENCE

L/A R/W LINE

NOTE: SEE OVERHEAD SIGN PLANS

SWALE (WEST)

CONST. 295 LF OF 24" FD

IS-09

CONST. 77.5 LF OF 24" FD

CONST. 40.0 LF OF 24" PIPE

CONST. 177.5 LF OF 24" FD

CONST. 12.0 LF OF 18" PIPE

CONST. 15" SLOTTED DRAIN

CONST. 13.0 LF OF 18" PIPE

CONST. 15" SLOTTED DRAIN

IS-10

9.84' SHLDR.

VARIES

47.24'

EXIST. PAVT. (TO BE MILLED AND RESURFACED)

SR 826 SB

SAW CUT

VARIES

9.84' SHLDR.

CONST. MEDIAN BARRIER WALL WITH OPAQUE VISUAL BARRIER

MATCH LINE STA. 377+00.00 (6)

MATCH LINE STA. 382+60.00 (8)

378 379 380 381 382

℄ SR 826

N 2° 50' 13" W

CURVE CLPEI-1

9.84' SHLDR.

PC STA. 379+81.10

EXIST. GUARDRAIL (TO BE REMOVED)

EXIST. PAVT. (TO BE MILLED AND RESURFACED)

SR 826 NB

SAW CUT

47.24'

VARIES

9.84' SHLDR.

IS-11

IS-13

VARIES

CONST. 8.5 LF OF 18" PIPE

CONST. 14.5 LF OF 18" PIPE

CONST. 15" SLOTTED DRAIN

CONST. 15.5 LF OF 18" PIPE

CONST. 15" SLOTTED DRAIN

IS-14

CONST. 15" SLOTTED DRAIN

CONST. 295 LF OF 24" FD

IS-12

CONST. 147.5 LF OF 30" PIPE

+41.74 86.71' (RT)

CONST. 197.5 LF OF 30" PIPE

SWALE (EAST)

L/A R/W LINE

EXIST. FENCE (TO BE REMOVED)

CONST. REINFORCED CONC. BARRIER WALL (SHOULDER) WITH OPAQUE VISUAL BARRIER (SPECIAL 3'-1") (SEE MISCELLANEOUS DRAINAGE DETAILS SHEET)

+41.59 102.64' (RT)

L/A R/W LINE

+06.99 98.80'(RT)

+41.50 102.68' (RT)

TYPE B FENCE

SW 76th AVE.

END SLOTTED DRAIN (SEE MISC. DRAINAGE DETAILS SHEET)
END REINFORCED CONC. BARRIER WALL (SHOULDER) W/OPAQUE VISUAL BARRIER (SPECIAL 3'-1")
BEGIN PLAIN CONC. BARRIER WALL (SHOULDER) W/OPAQUE VISUAL BARRIER (SPECIAL 3'-1")
STA. 382+50.00 @ RAMP "B"

SW 64th ST.

6/5/09

RELEASED FOR CONSTRUCTION

LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

S.R. 826

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bec engineering

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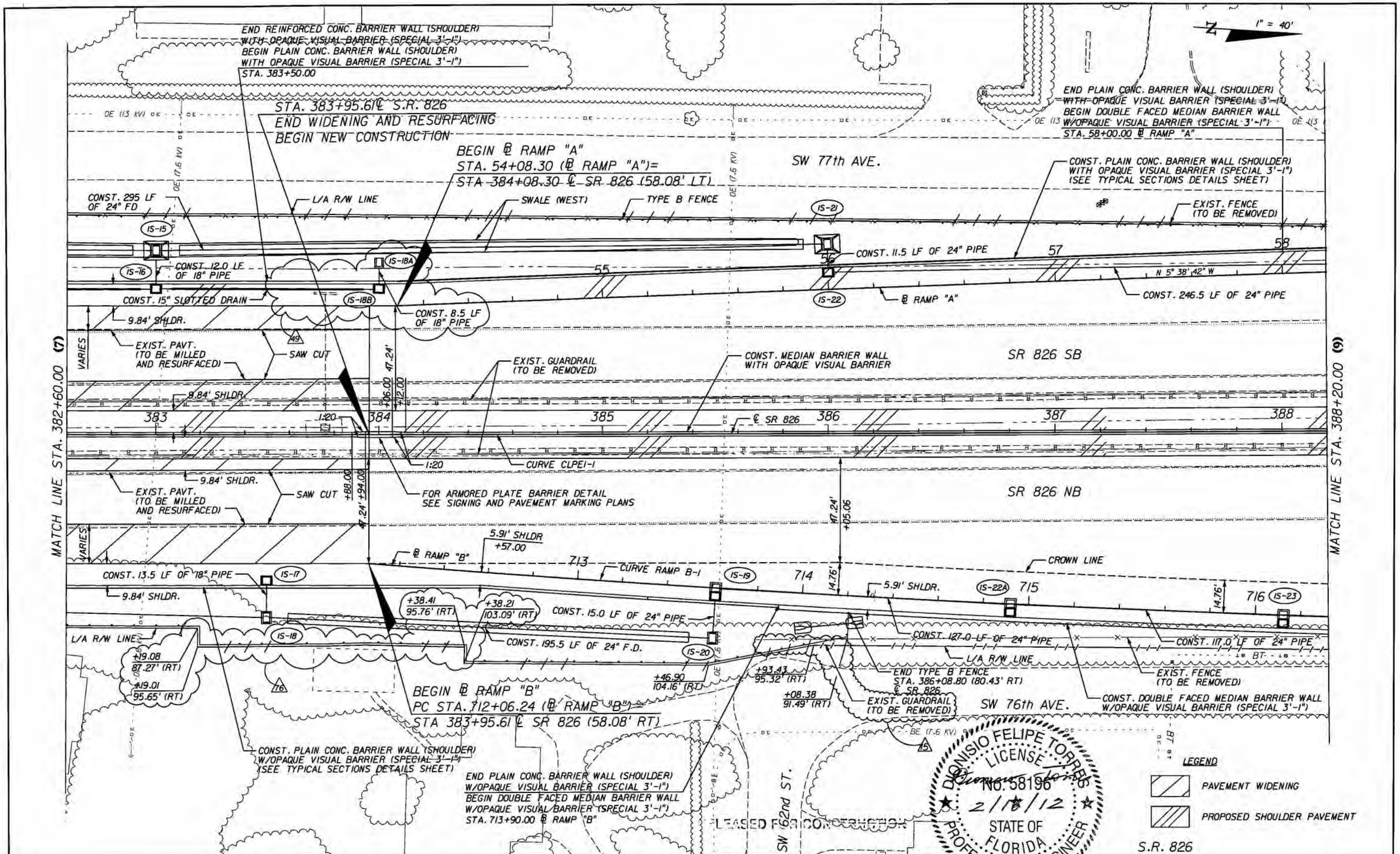
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (7)

SHEET NO. 1-23



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8/14/09	15 REMOVE GUARDRAIL ALONG SW 76 AVE 49 SLOTTED DRAIN WAS EXTENDED TO THE NORTH & ADDED STRUCTURES IS-18A & IS-18B	2/16/12	76 UPDATED FENCE ALIGNMENT

engineering
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (8)

SHEET NO. 1-24

$USER$ $DATE$ $TIME$ $FILE$

CURVE DATA SW77EOP
DELTA = 12° 41' 17" (LT)
D = 4° 46' 29"
T = 133.42
L = 265.74
R = 1,200.00

1" = 40'

S.W. 77th AVE

SW 77th AVE

END TYPE B FENCE
STA. 388+93.52 (84.70' LT)
℄ SR 826

EXIST. FENCE
(TO BE REMOVED)

CONST. 246.0 LF OF 18" PIPE

L/A R/W LINE

CONST. DOUBLE FACED MEDIAN BARRIER WALL
W/OPAQUE VISUAL BARRIER (SPECIAL 3'-1")
(SEE TYPICAL SECTIONS DETAILS SHEET)

CONST. 237.5 LF OF 18" PIPE

392+97.18
120.82' LT

392+96.62
96.82' LT

SAW CUT

CURVE SW77EOP

1" OVERLAY
OF EXIST. PAVT.

24'

CURVE RAMPA-1

PC STA. 63+41.3

IS-24 9.84' SHLDR. 59 60 61 62 63

N 5° 38' 42" W

IS-27 9.84' SHLDR.
+14.50

℄ RAMP "A"

IS-31 5.91' SHLDR.

SR 826 SB

MATCH LINE STA. 388+20.00 (8)

MATCH LINE STA. 393+80.00 (10)

9.84' SHLDR.

CONST. MEDIAN BARRIER WALL
WITH OPAQUE VISUAL BARRIER

389 ℄ SR 826 390 CURVE CLPEI-1 391 392 393

PT STA. 391+23.30

N 4° 29' 57" W

9.84' SHLDR.

EXIST. GUARDRAIL
(TO BE REMOVED)

SR 826 NB

47.24'
+41.45

CRASH
CUSHION

IS-28

CONST. 21.5 LF OF 18" PIPE

IS-30

CONST. DOUBLE FACED MEDIAN BARRIER WALL
WITH OPAQUE VISUAL BARRIER (SPECIAL 3'-1")
(SEE TYPICAL SECTIONS DETAILS SHEET)

CONST. 196.5 LF OF 18" PIPE

9.84' SHLDR.

CONST. 97.0 LF OF 24" PIPE

CROWN LINE

CONST. 97.0 LF OF 18" PIPE

EXIST. FENCE
(TO BE REMOVED)

19'

CONST. 22.5 LF OF 18" PIPE

5.91' SHLDR.

717 IS-24A

CURVE RAMPB-1

14.76'

718 IS-25

℄ RAMP "B"

719 IS-26

14.76'
+54.68

IS-29

720 PT STA. 720+08.65

721 RAMP "B" 5.91' SHLDR.

N 4° 21' 10" W

L/A R/W LINE

EXIST. GUARDRAIL
(TO BE REMOVED)

CONST. 97.0 LF OF 24" PIPE

CONST. DOUBLE FACED
MEDIAN BARRIER WALL
W/OPAQUE VISUAL BARRIER
(SPECIAL 3'-1")

CONST. 71.5 LF OF 18" PIPE

BEGIN DOUBLE FACED MEDIAN BARRIER WALL
STA. 391+70.00

END DOUBLE FACED MEDIAN BARRIER WALL
W/OPAQUE VISUAL BARRIER (SPECIAL 3'-1")
BEGIN CONC. RETAINING WALL
STA. 720+25.00 @ RAMP "B"

CONST. CONC. RETAINING
BARRIER WALL

EXIST. GUARDRAIL
(TO BE REMOVED)

SW 76th AVE.

SW 61st ST.

SW 60th ST.

LEGEND

PROPOSED SHOULDER PAVEMENT

S.R. 826

8/14/09

RELEASED FOR CONSTRUCTION

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
8/14/09	5 REMOVE GUARDRAIL ALONG SW 76 AVE		

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Certificate of Authorization No. 7184

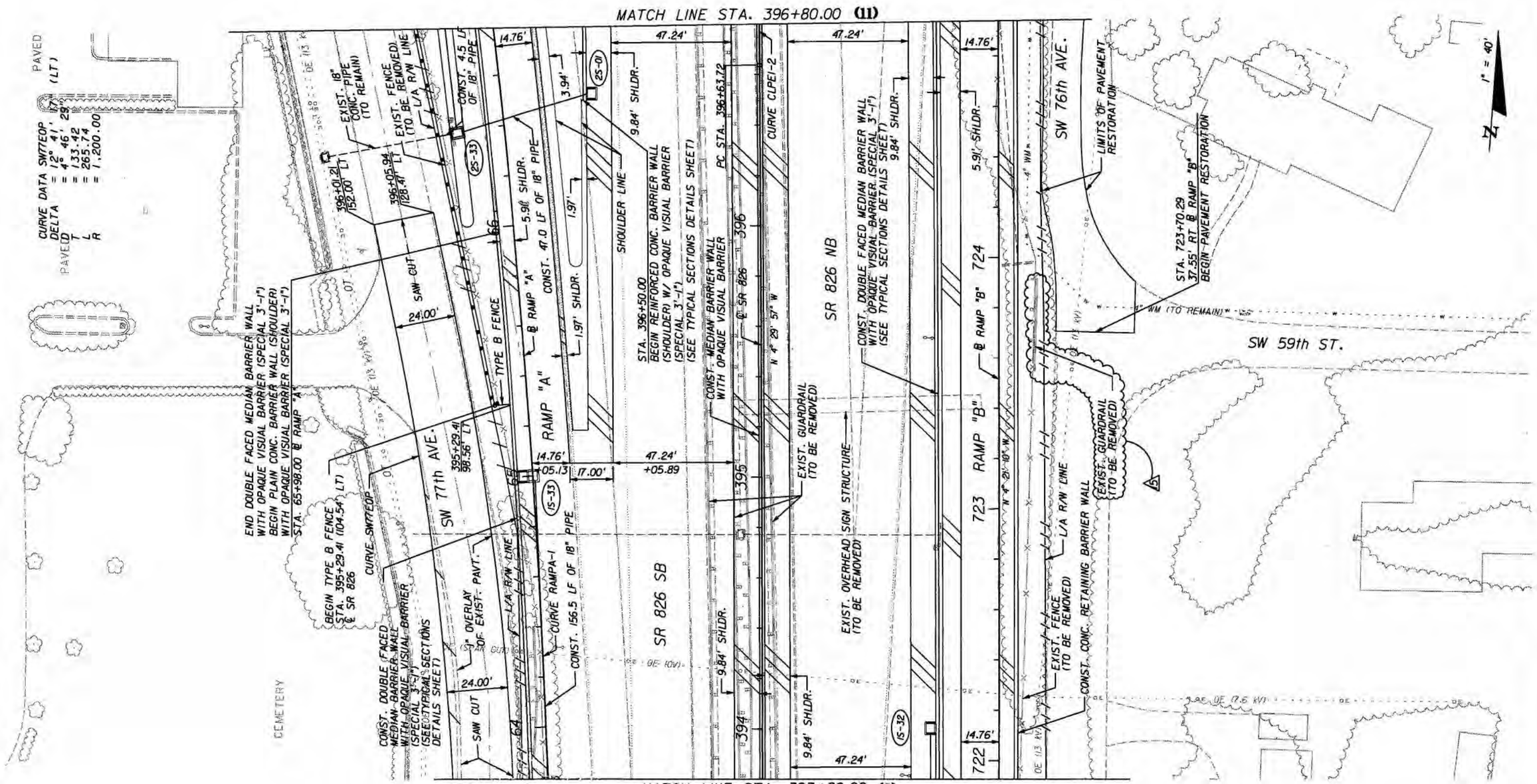
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (9)

SHEET NO. 1-25

$USER$ $DATE$ $TIME$ $FILE$



8/14/09

RELEASED FOR CONSTRUCTION

LEGEND

PROPOSED SHOULDER PAVEMENT

S.R. 826

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
8/14/09	15 REMOVE GUARDRAIL ALONG SW 76 AVE		

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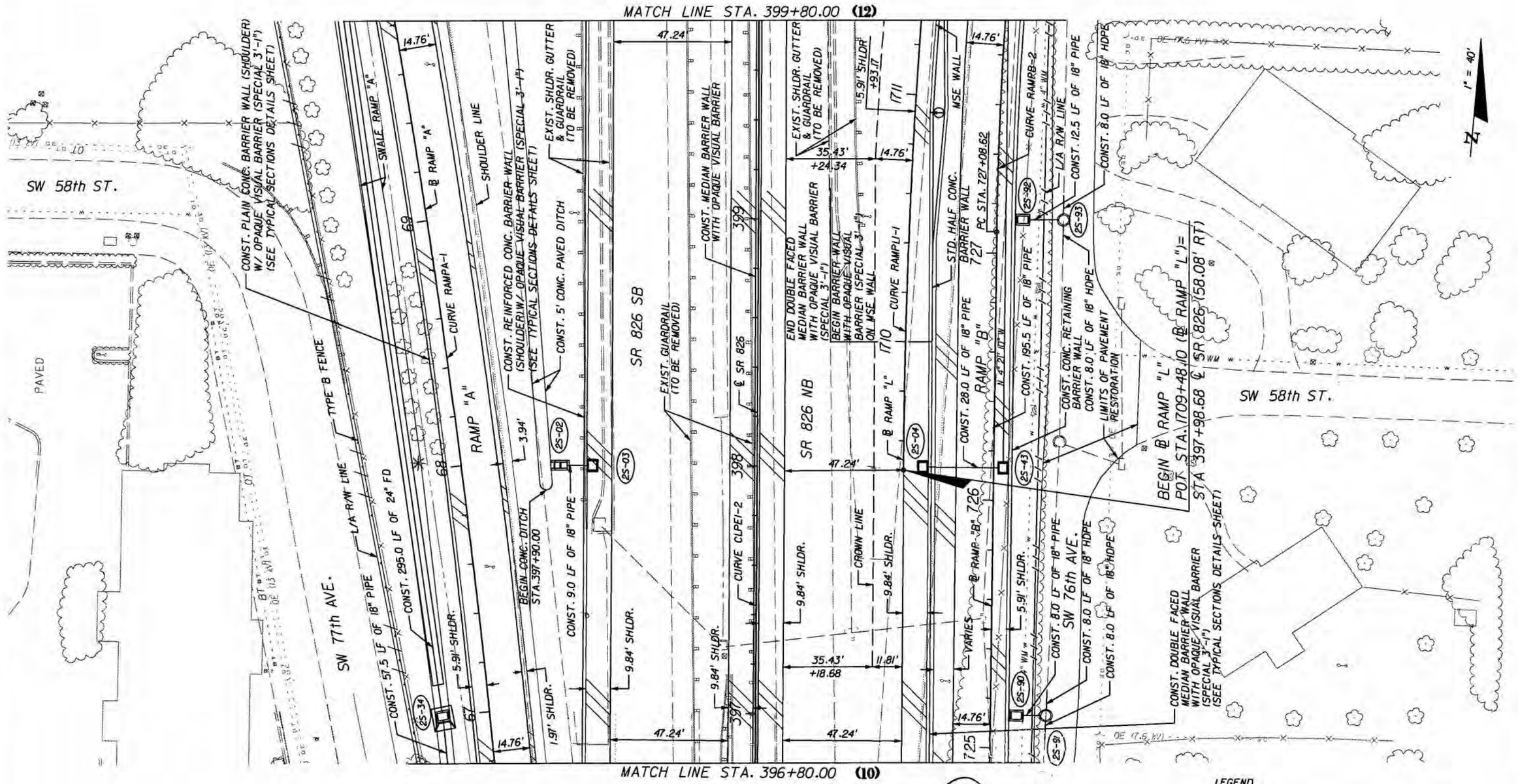
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (10)

SHEET NO. 1-26

$USER$ $DATE$ $TIME$ $FILE$



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S.R. 826

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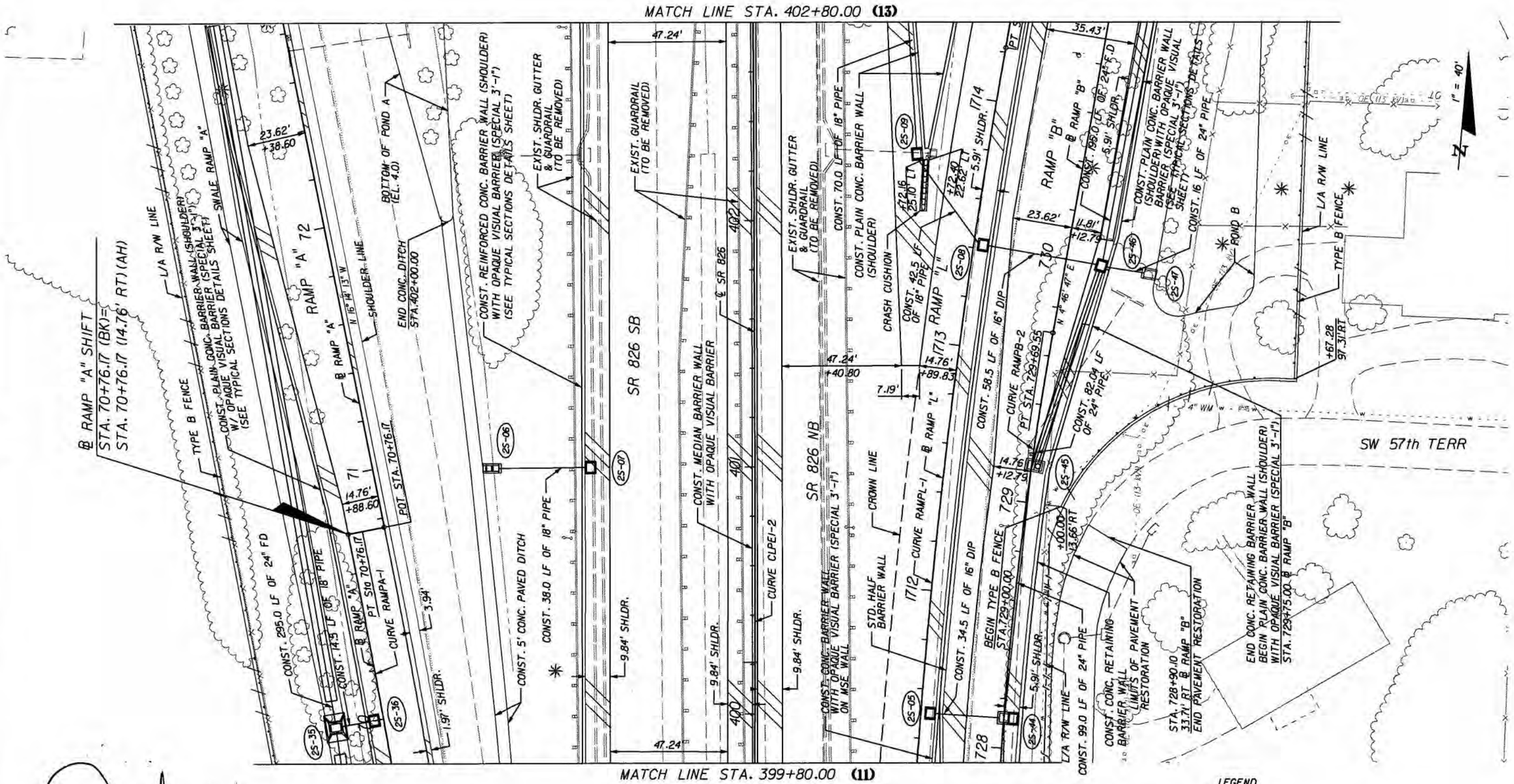
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (11)

SHEET NO. 1-27



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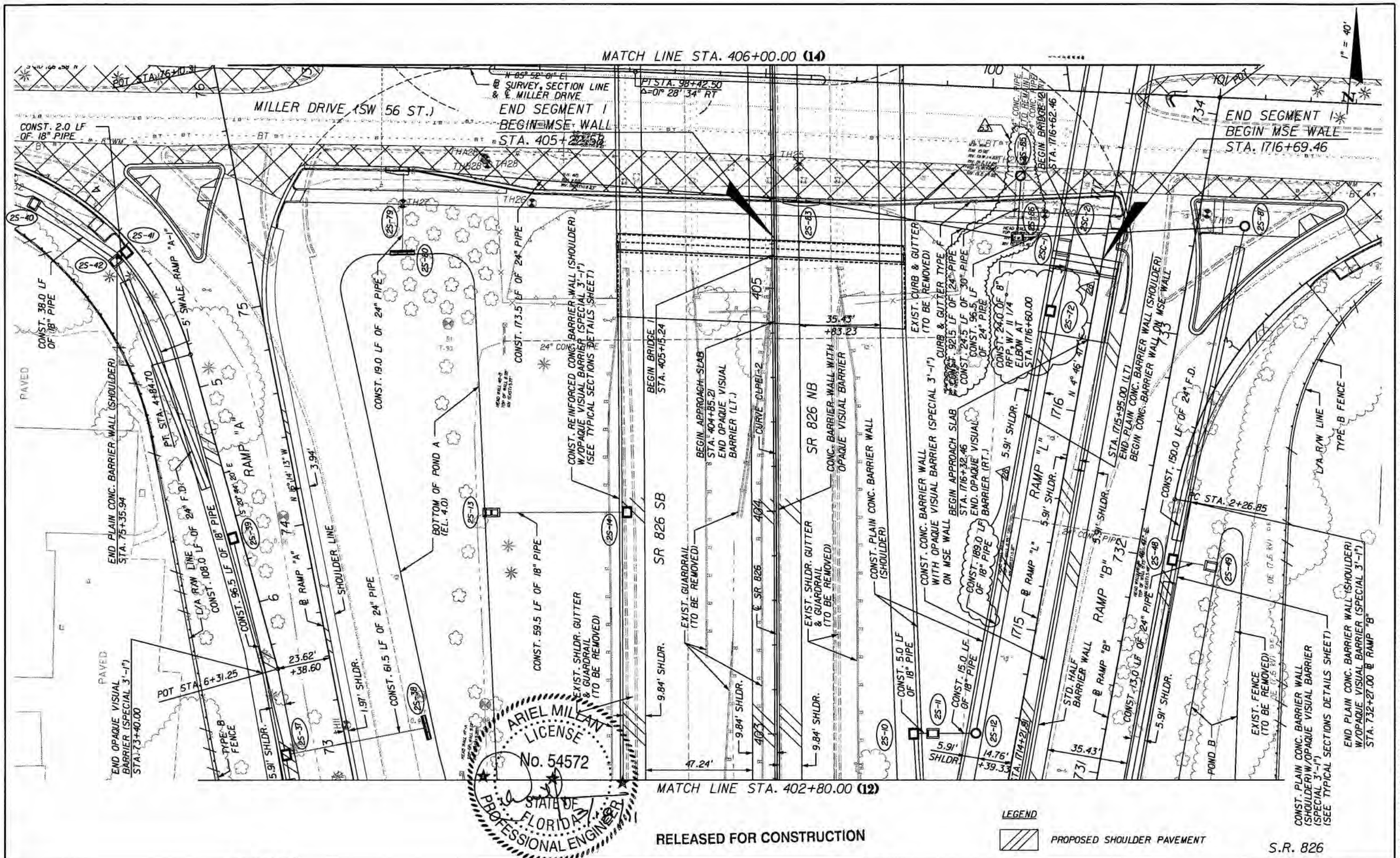
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (12)

SHEET NO. 1-28



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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
12/04/09	26 DRAINAGE STRUCTURE RELOCATED		
3/18/11	33 DRAINAGE CONNECTION WAS MODIFIED		

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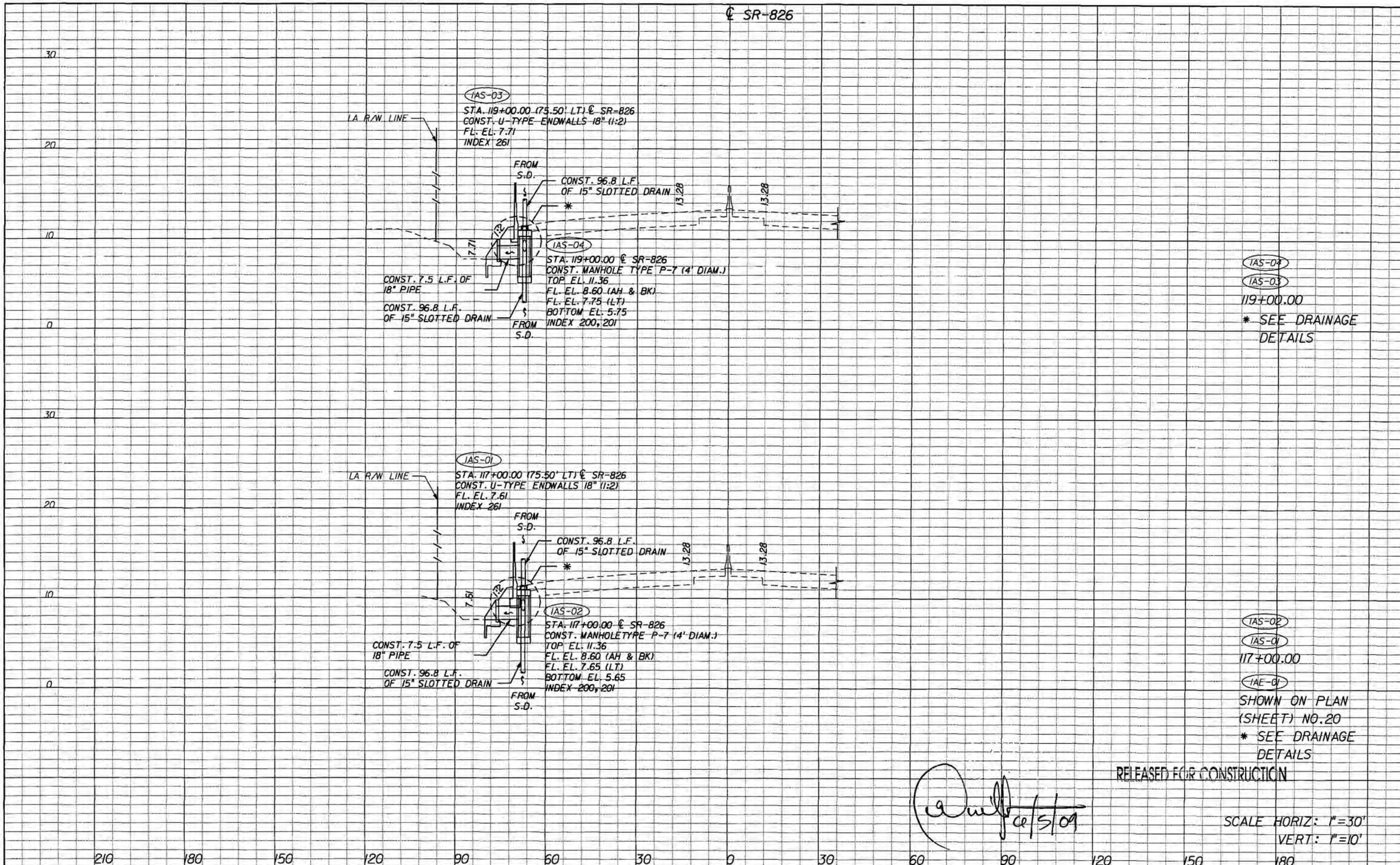
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (13)

SHEET NO. 1-29



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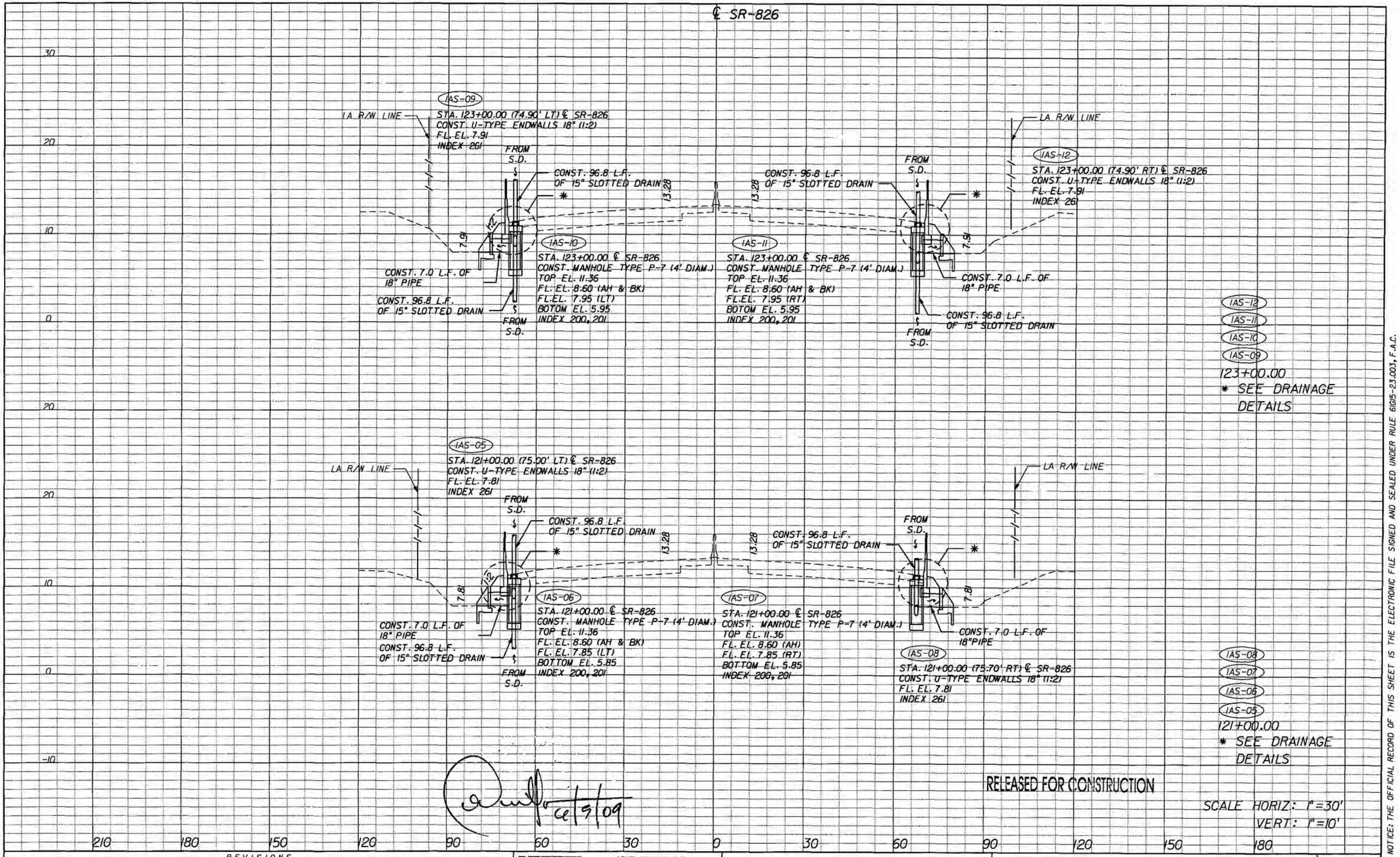
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-42



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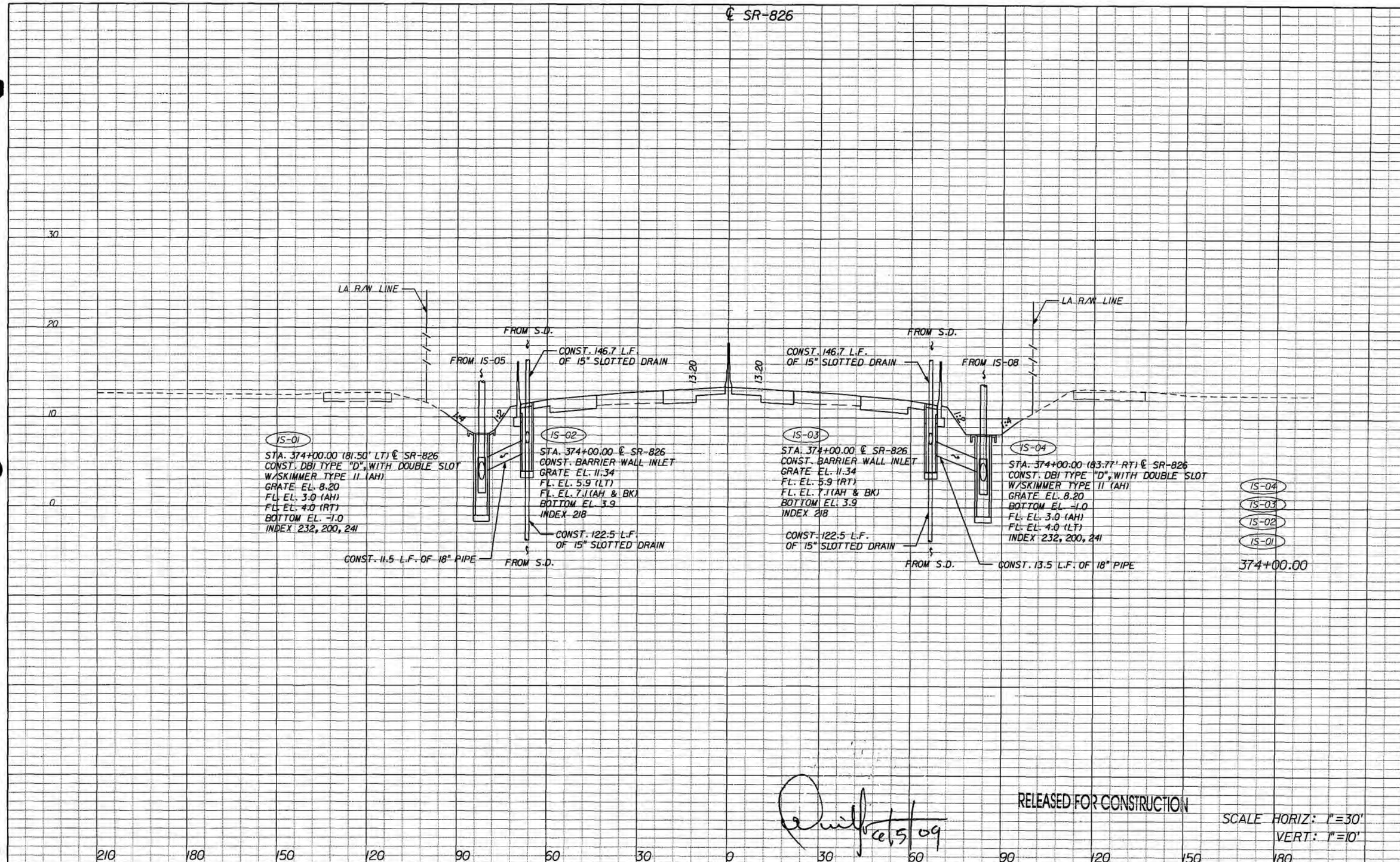
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-43



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VERT: 1"=10'

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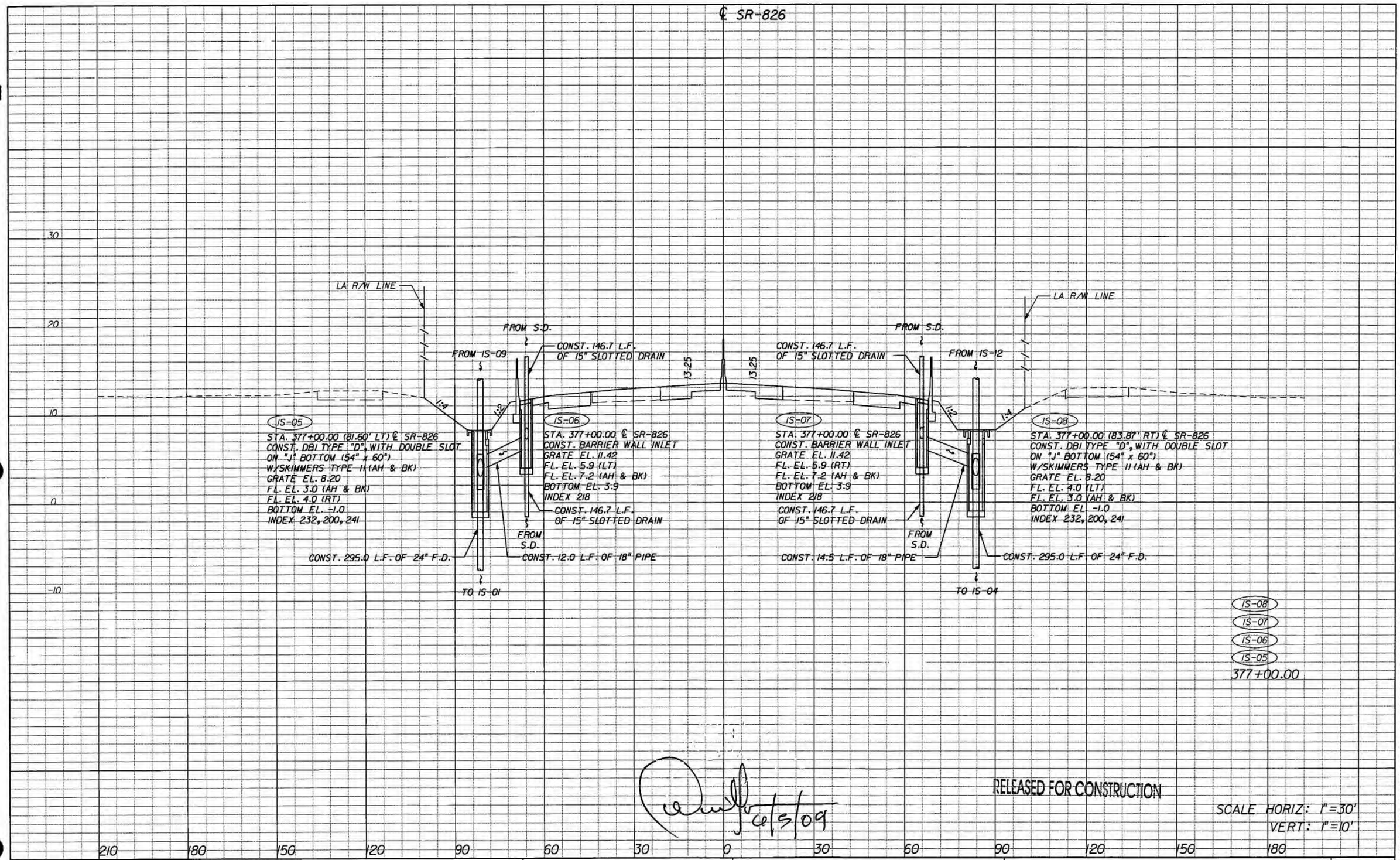
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-44



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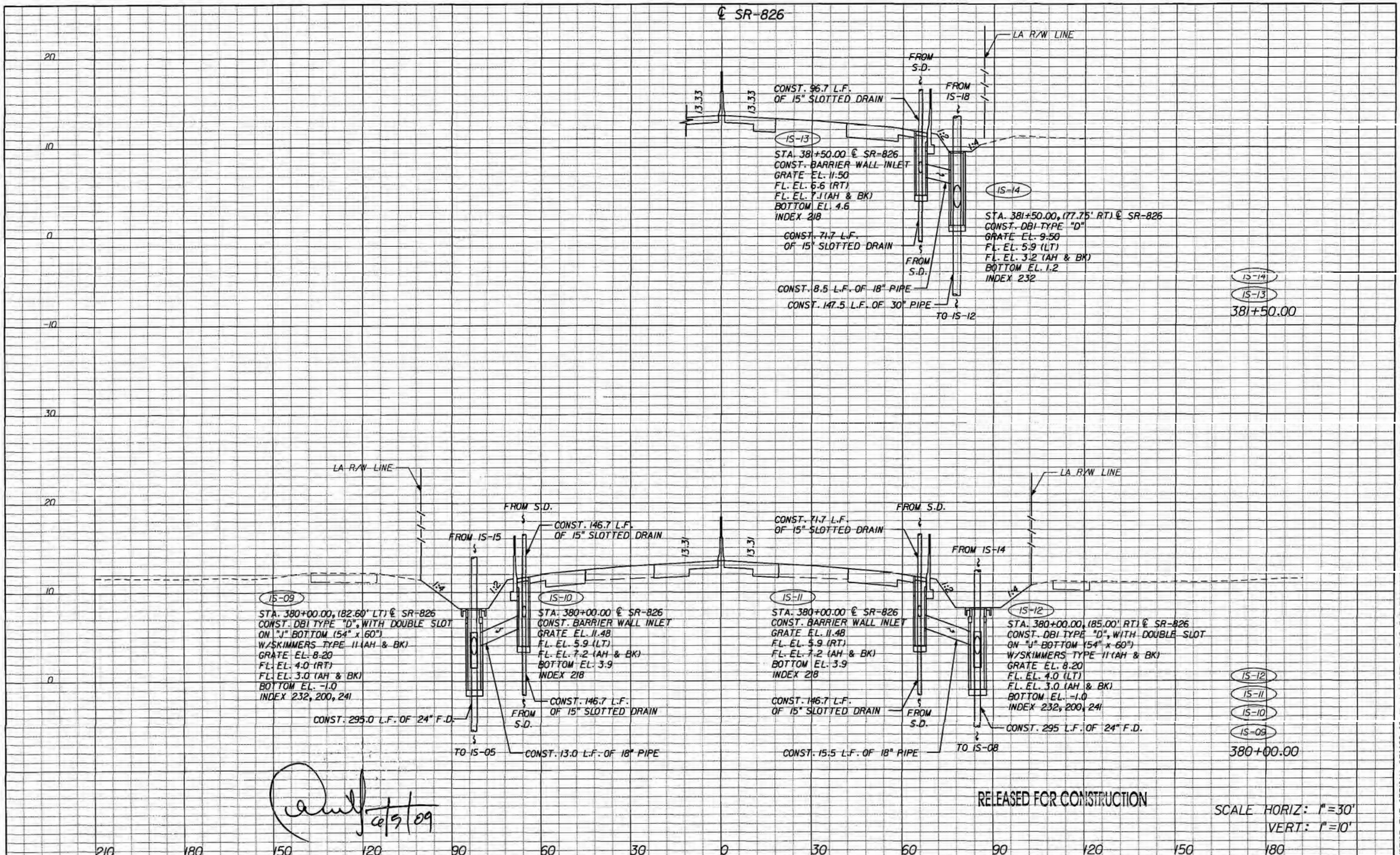
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-45

ppelegrin 6/4/2009 10:38:47 AM K:\249035\520\Segment 1\drainage\drstrd01.dgn



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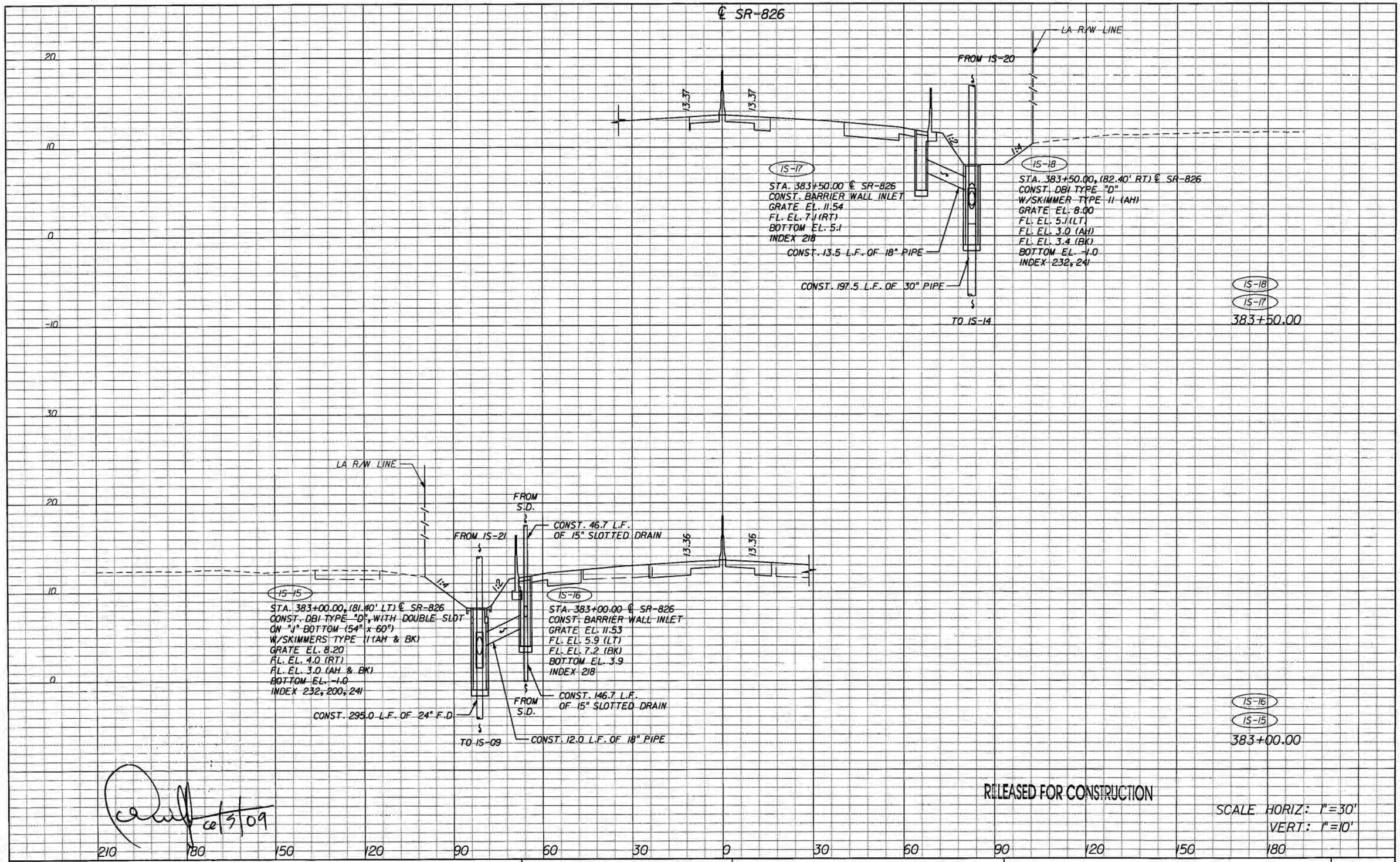
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-46



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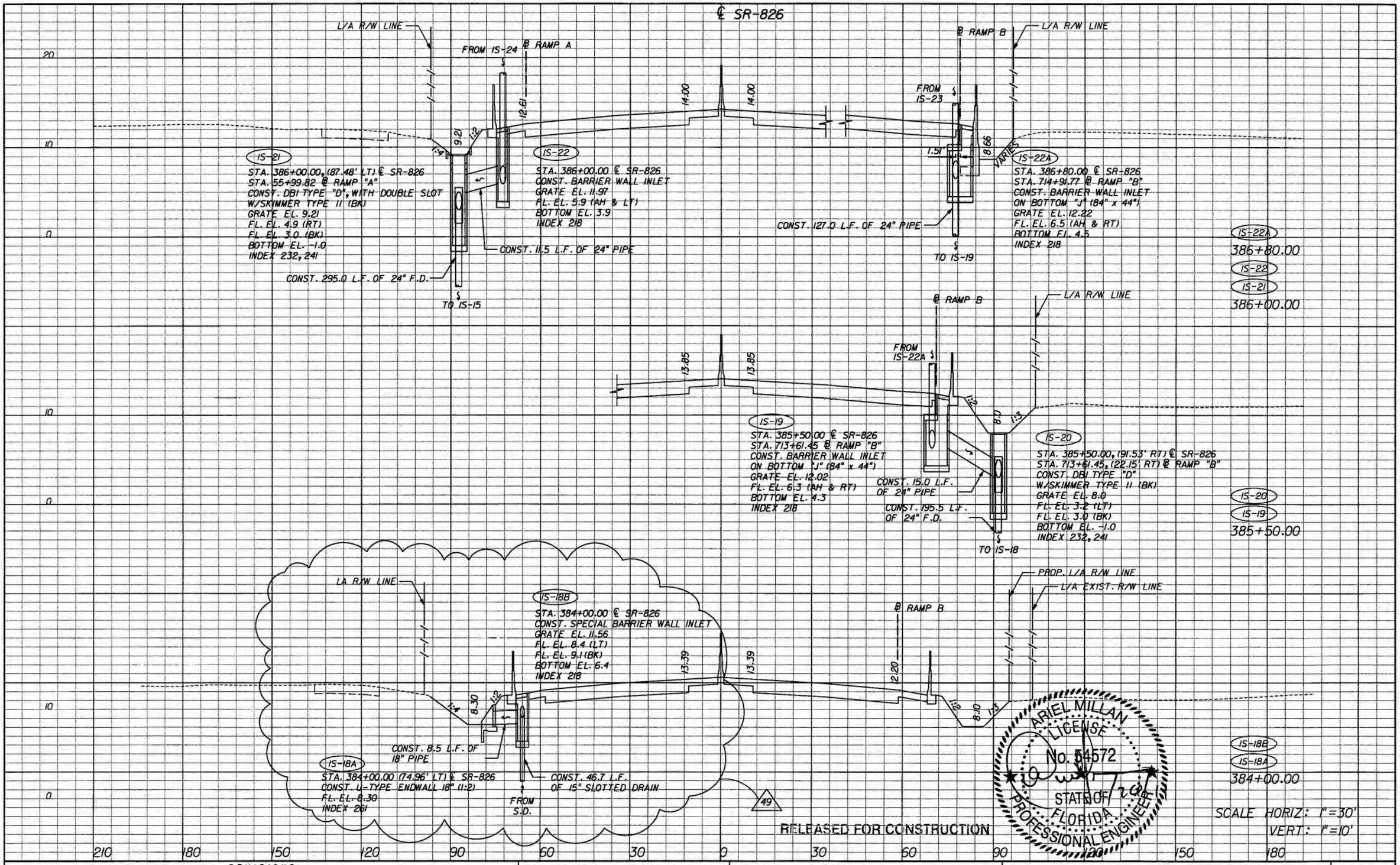
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-47



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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
	49 SLOTTED DRAIN WAS EXTENDED TO THE NORTH AND ADDED STRUCTURES IS-18A & S-18B		

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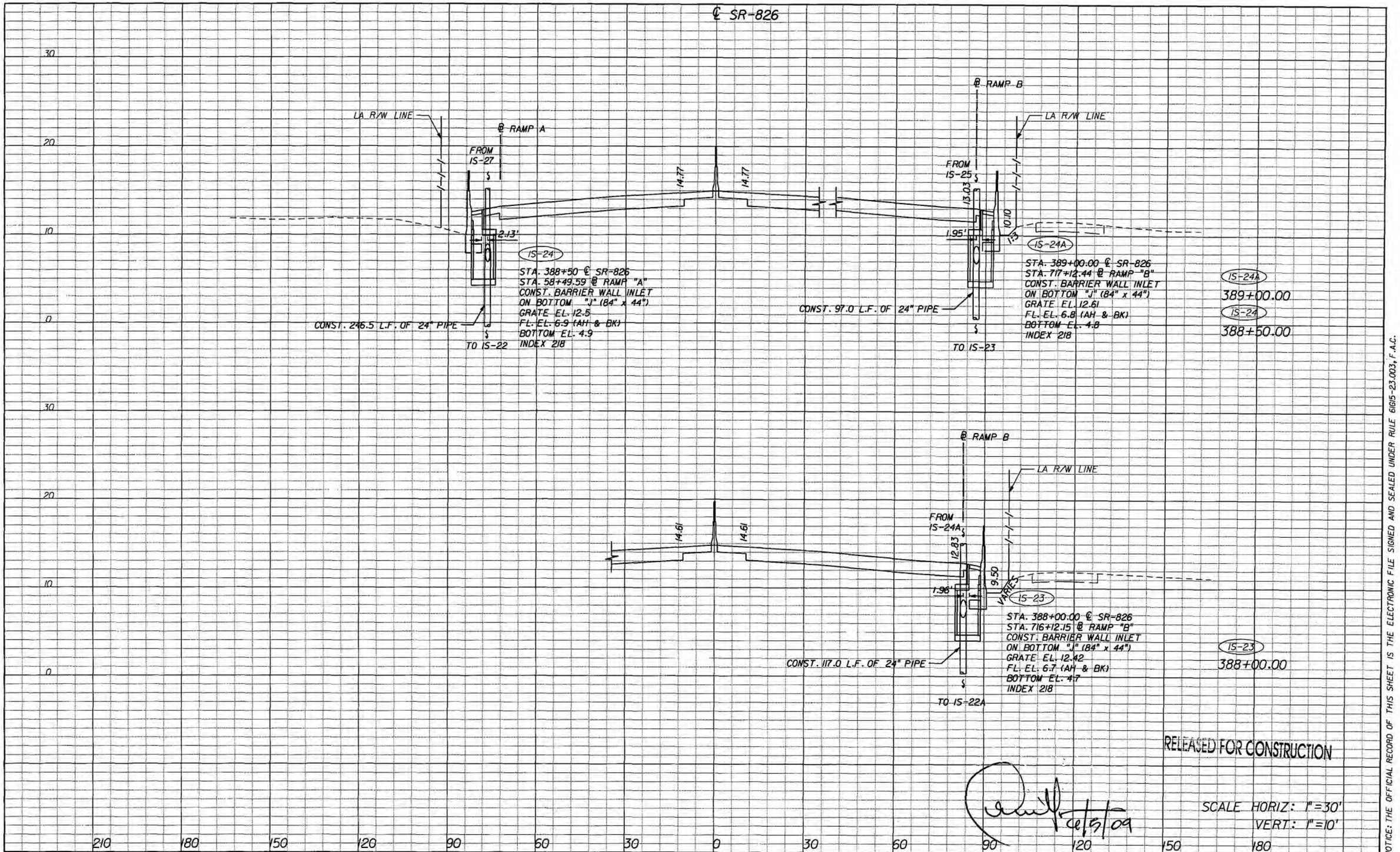
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-48



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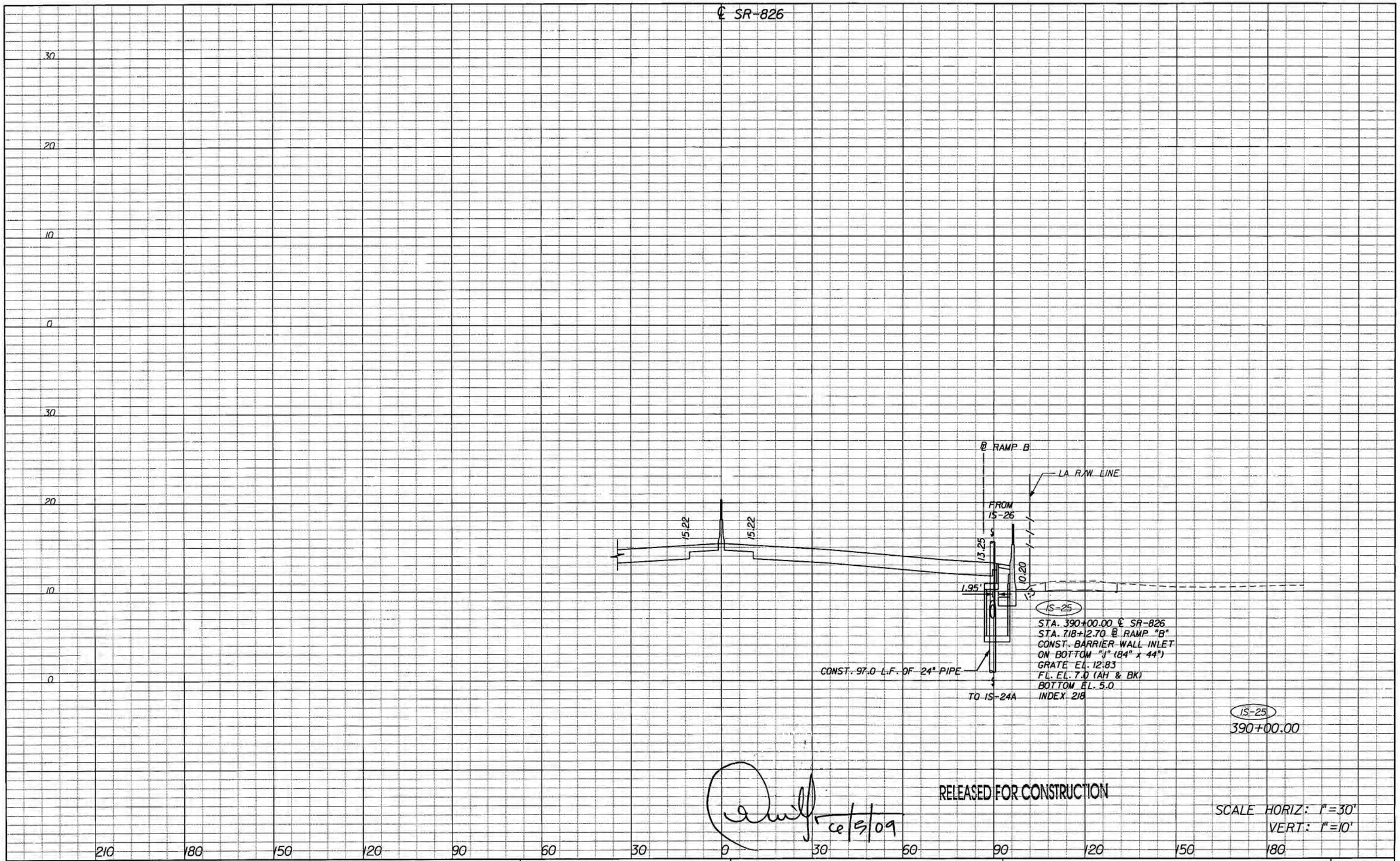
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-49



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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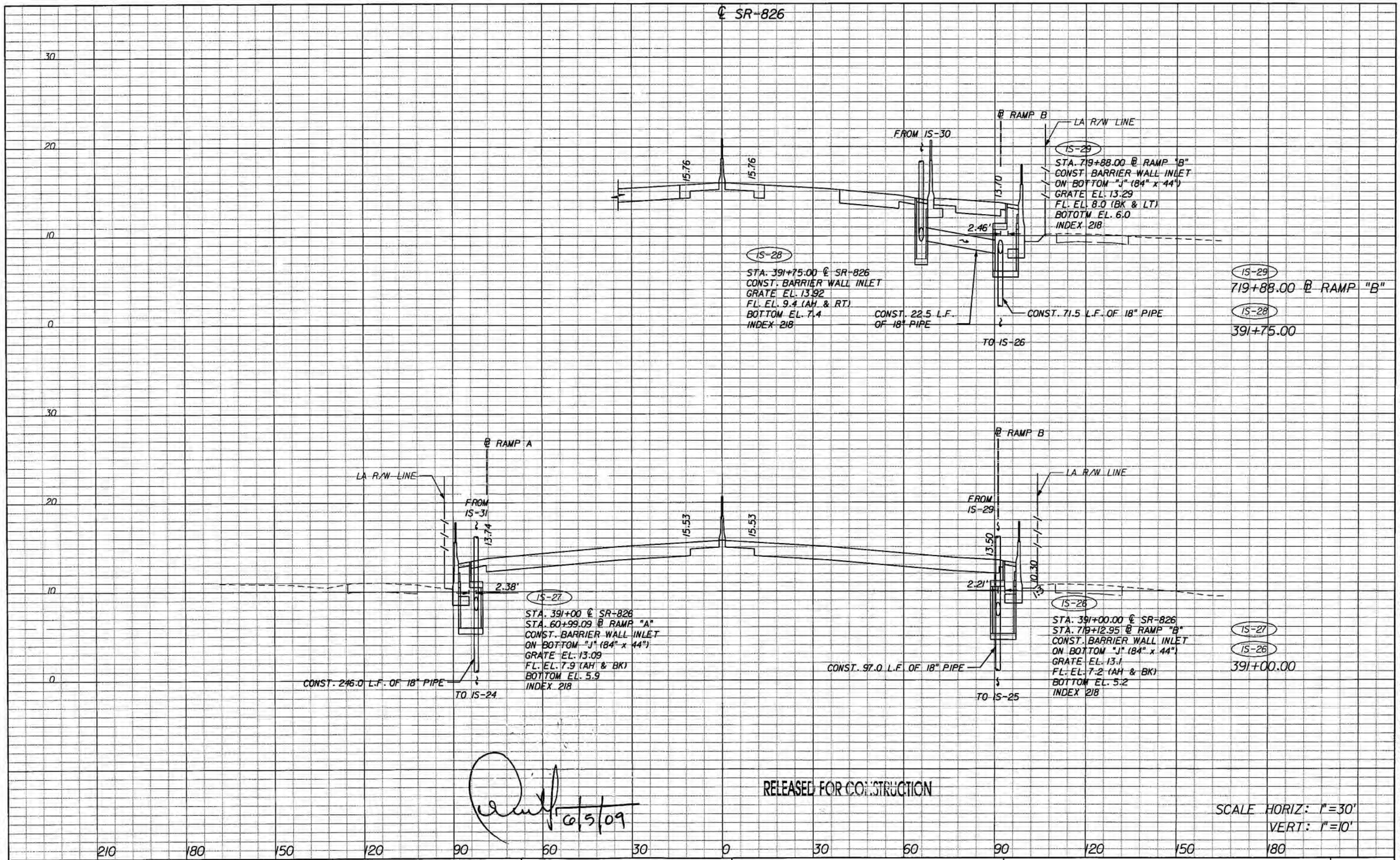
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-50



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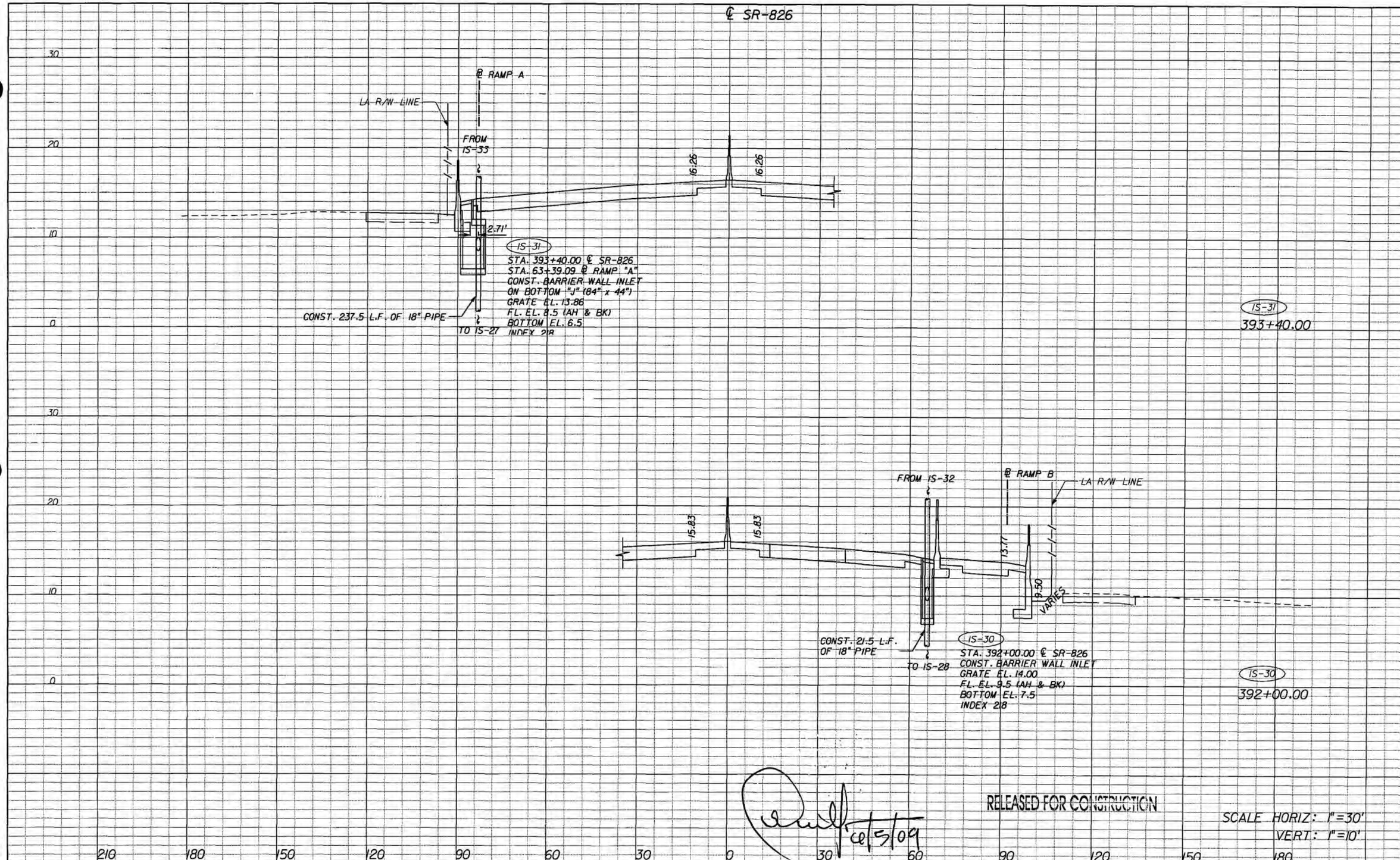
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-51



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REVISIONS			
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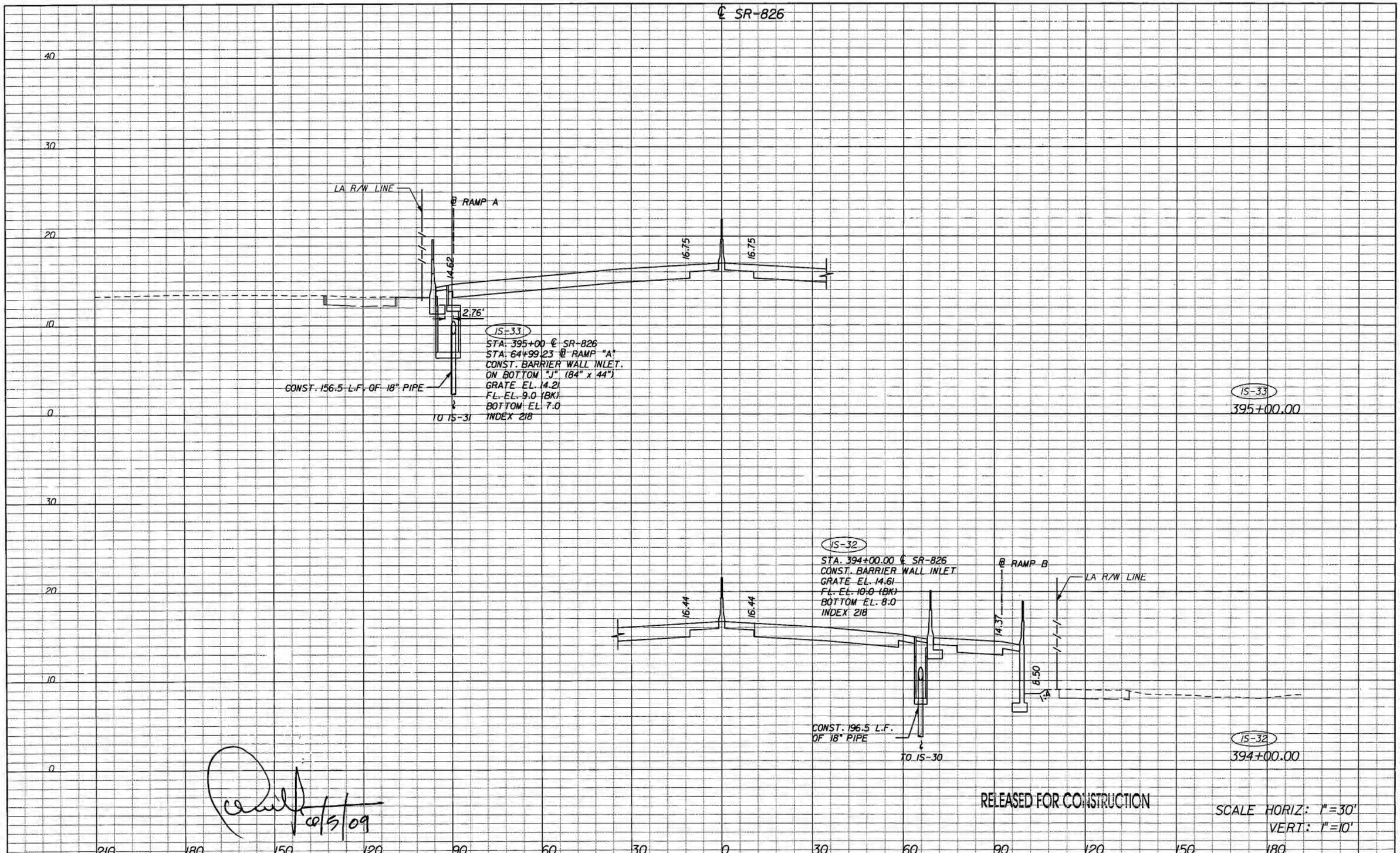
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-52



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10/5/09

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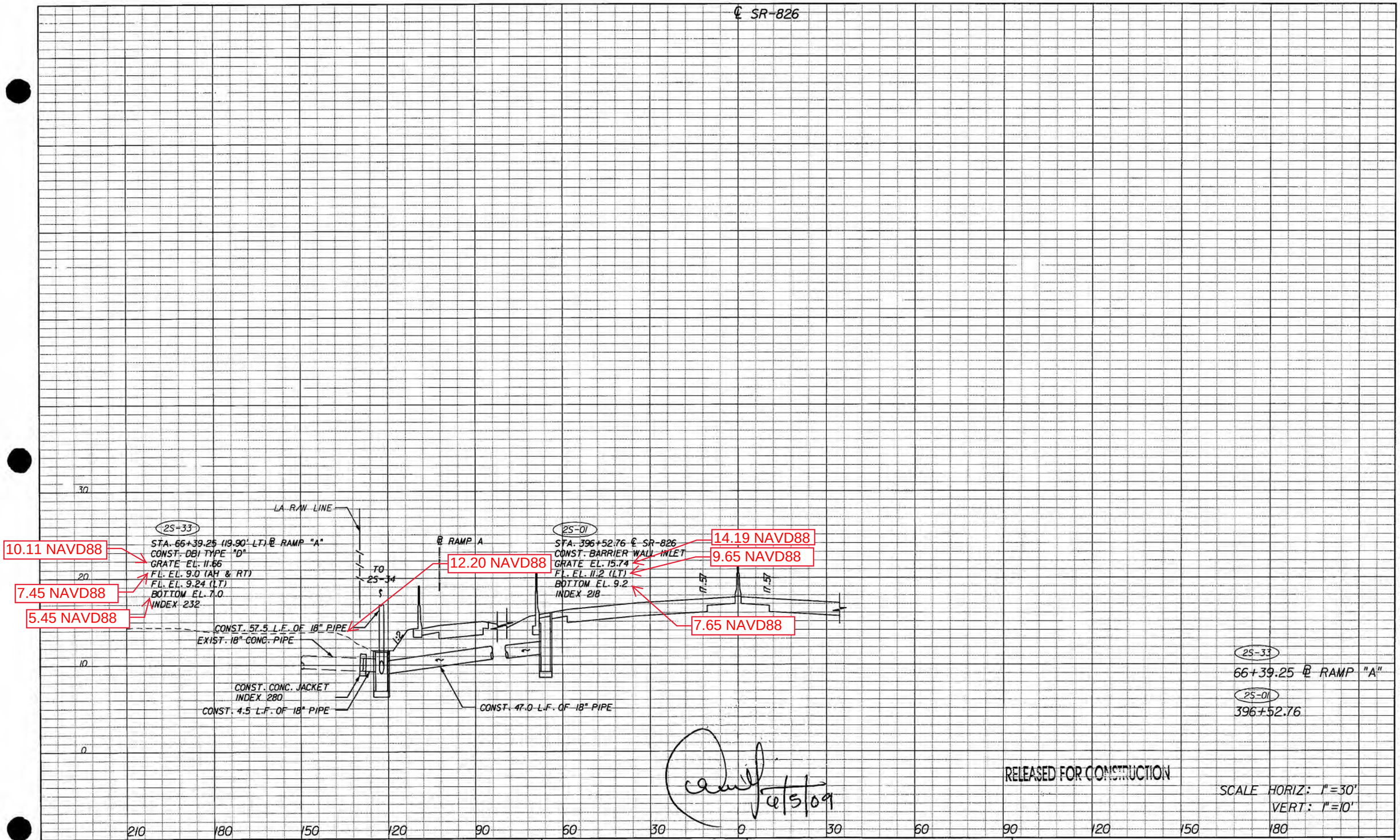
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-53



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-54

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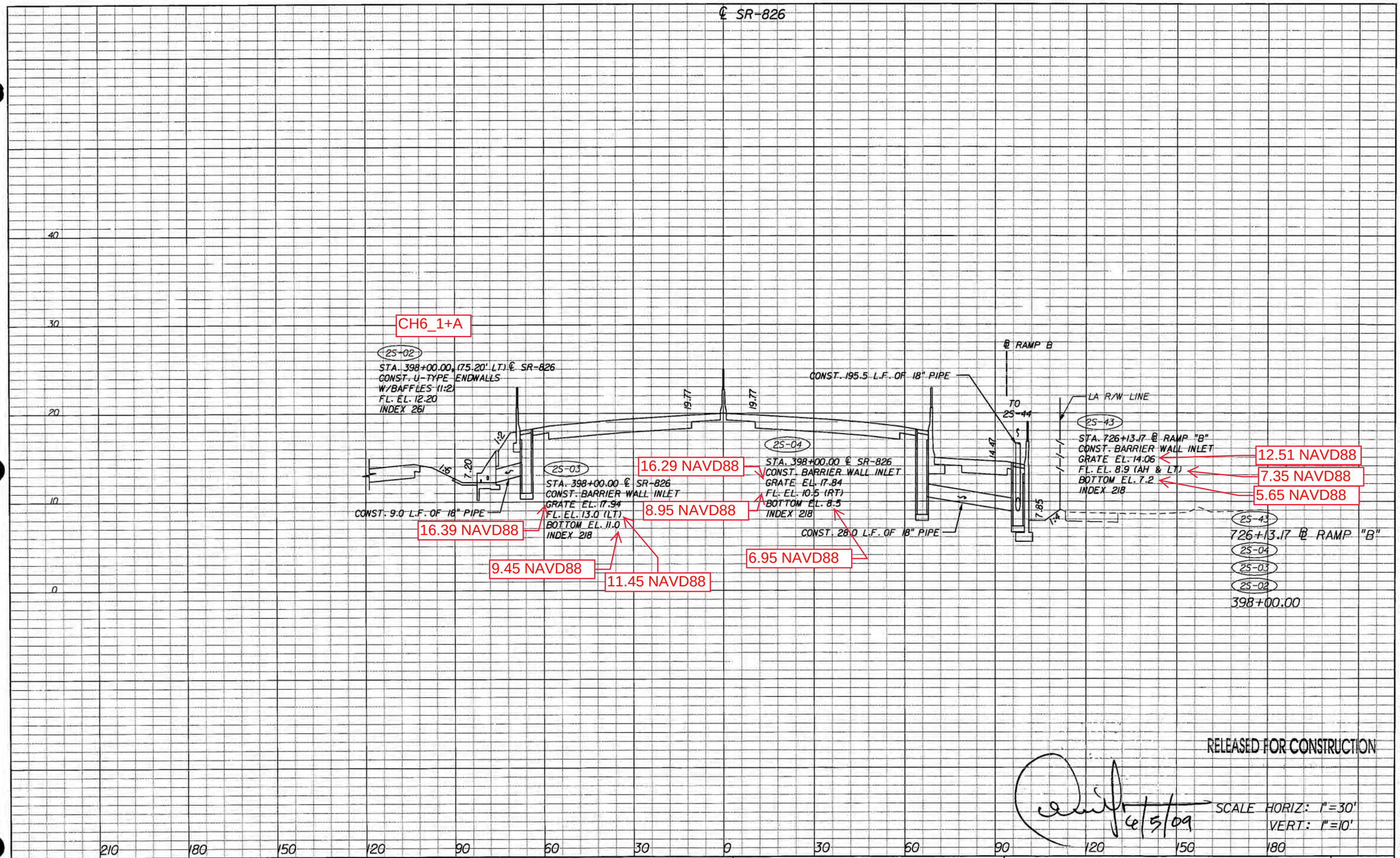

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DATE	DESCRIPTION	DATE	DESCRIPTION

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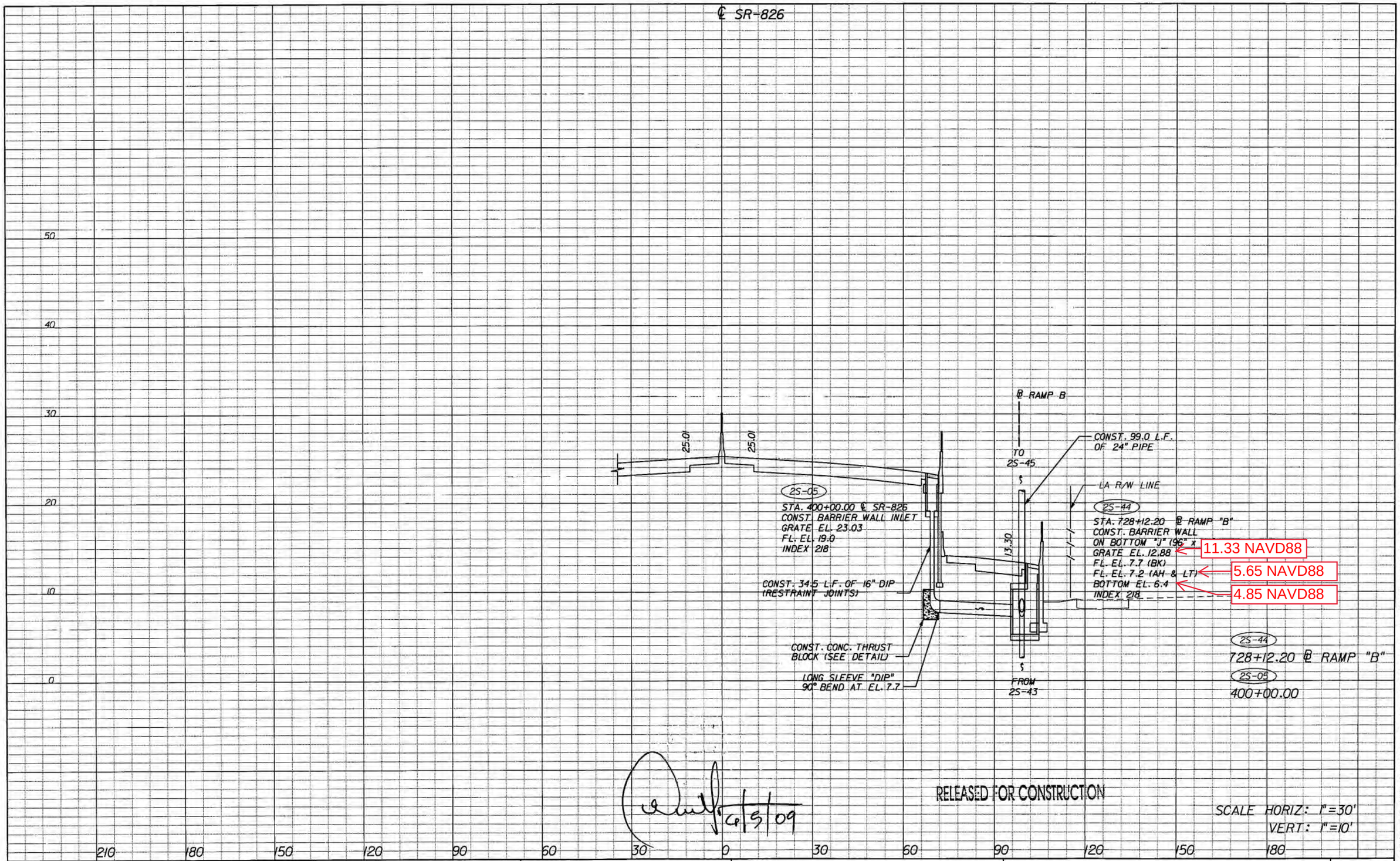
ARIEL MILLAN, P.E.
P.E. License No. 54572
7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351
Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-55



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SCALE HORIZ: 1"=30'
VERT: 1"=10'

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bac engineering
ARIEL MILLAN, P.E.
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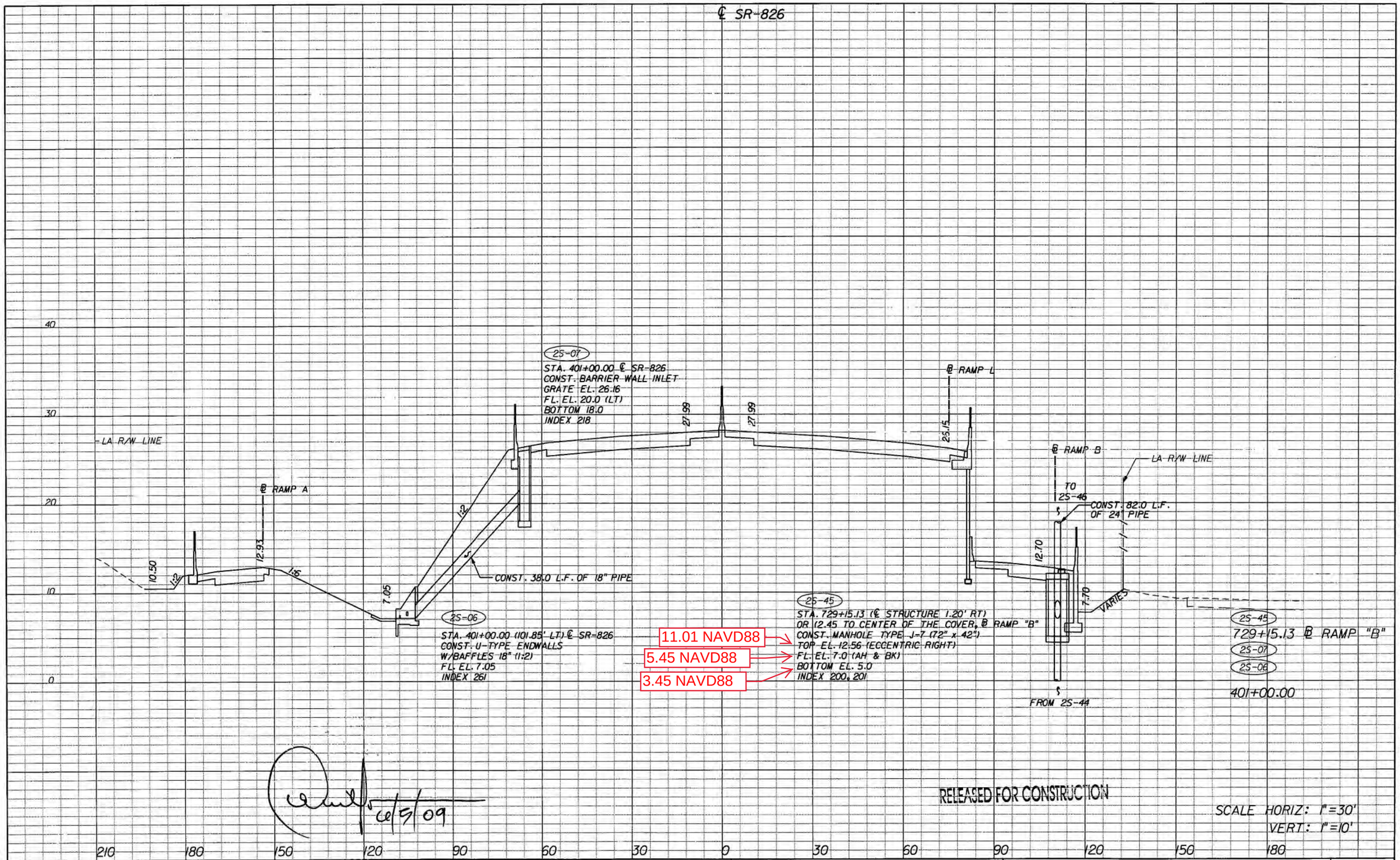
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-56



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DATE	DESCRIPTION	DATE	DESCRIPTION

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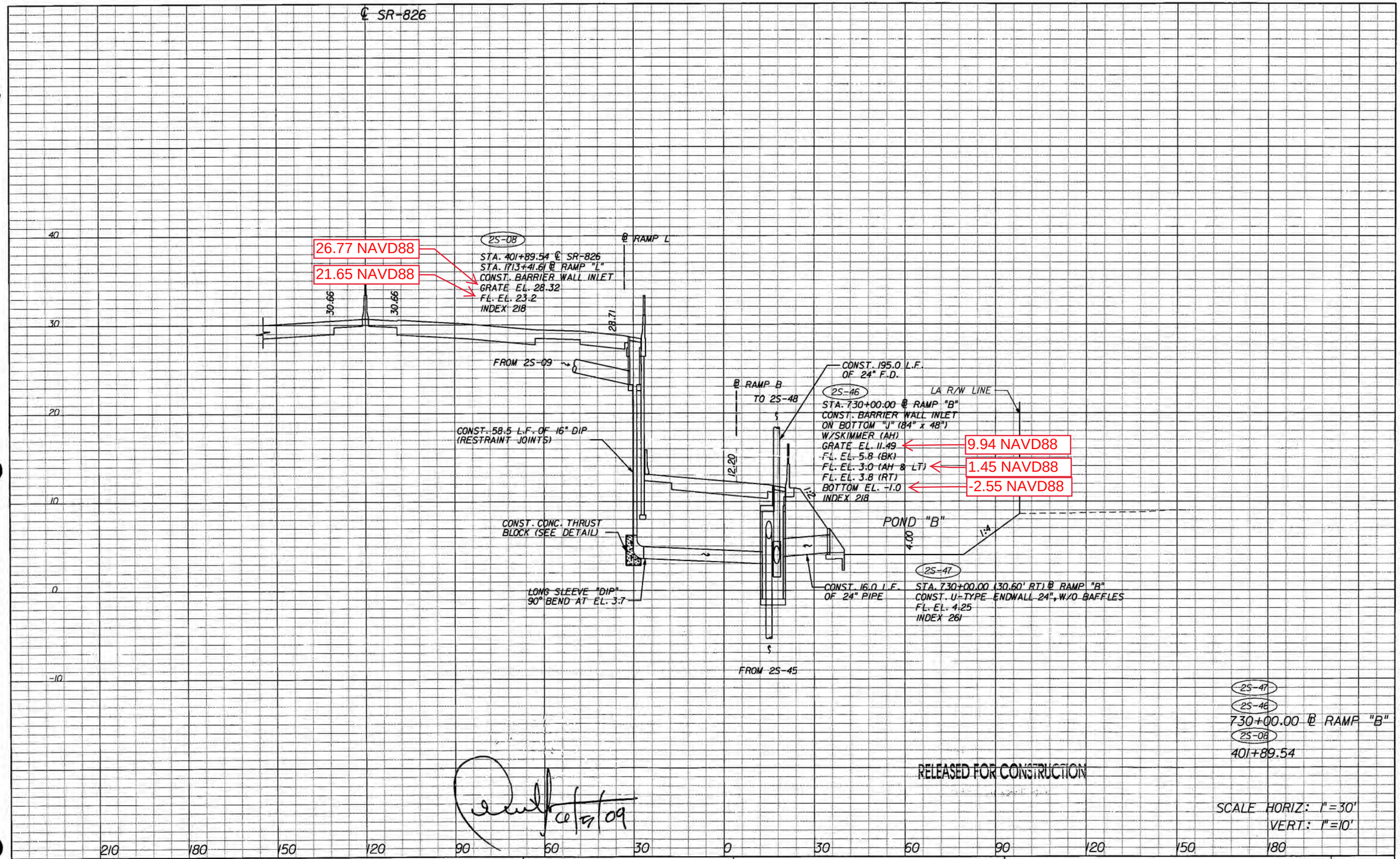
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-57



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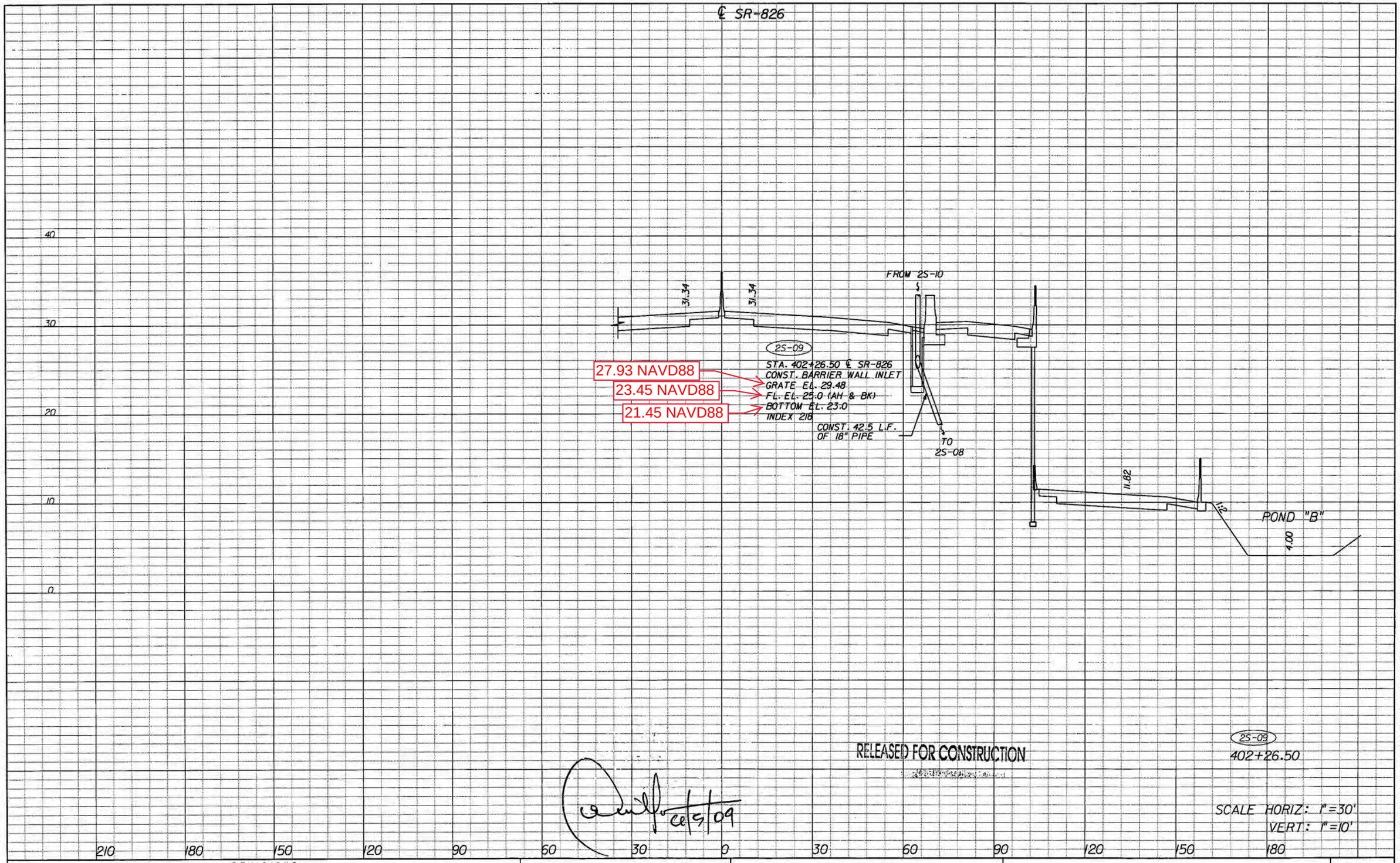
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-58



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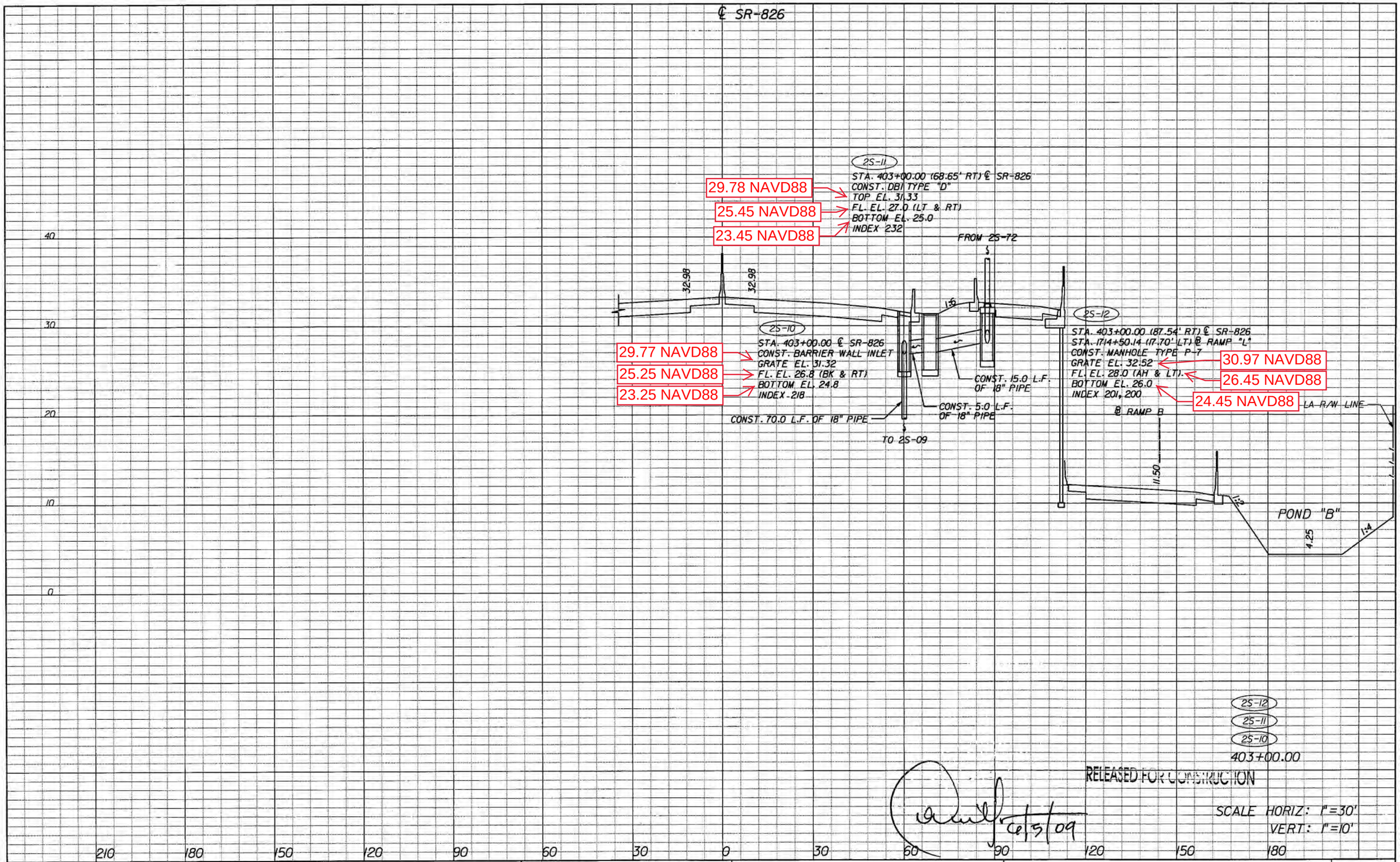
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-59



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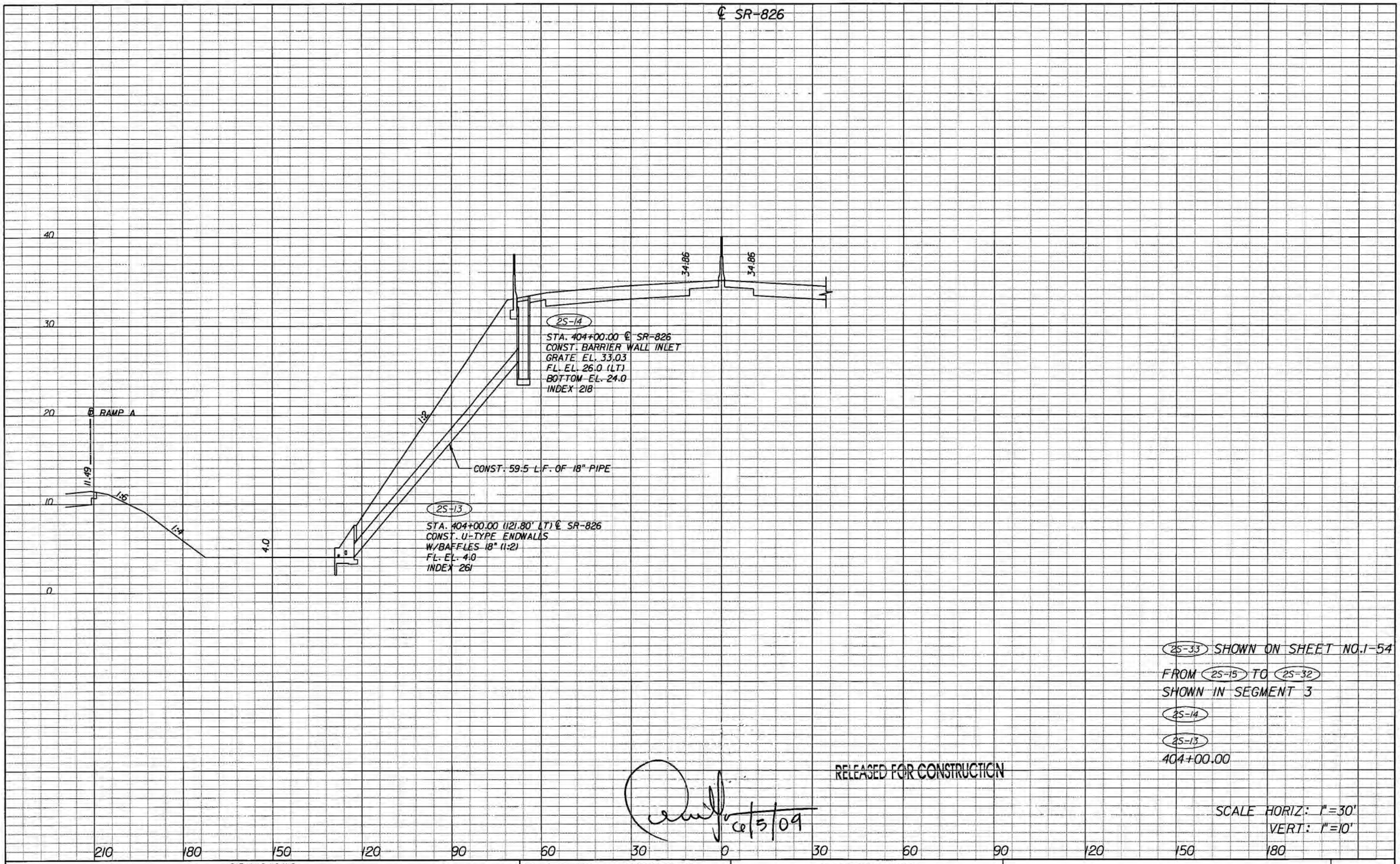
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-60



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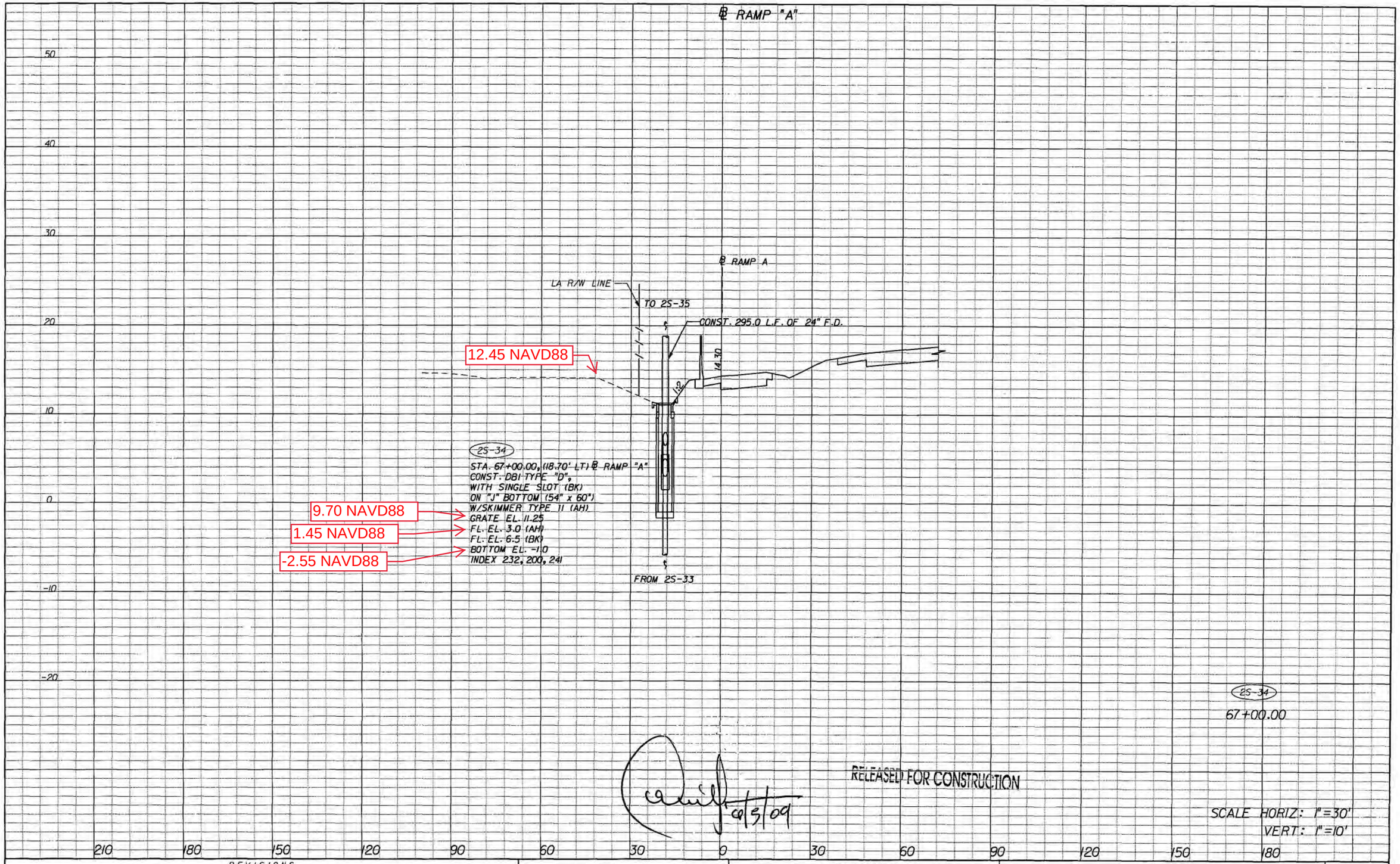
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-61



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SCALE HORIZ: 1"=30'
VERT: 1"=10'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-62

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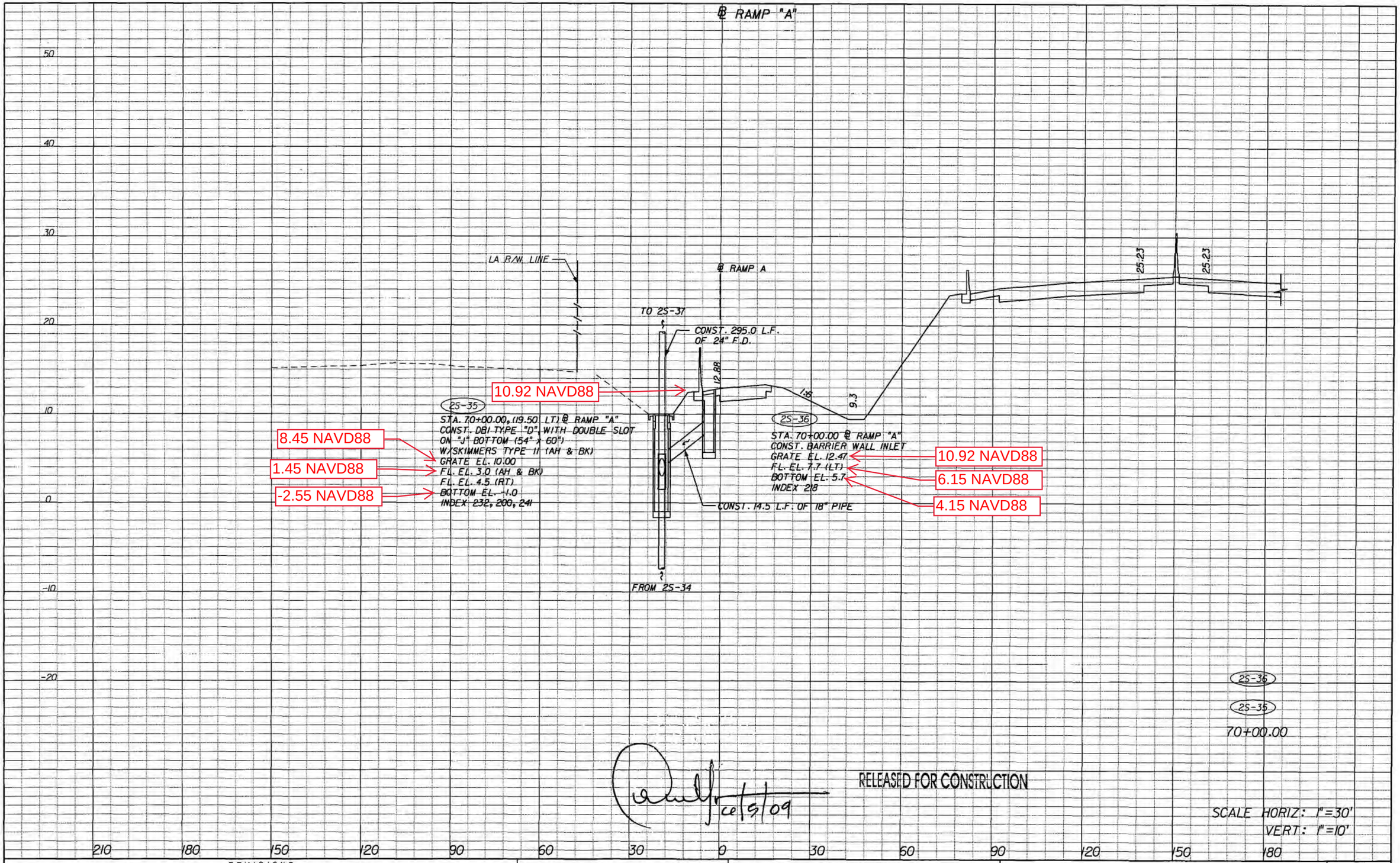

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12/5/09

SCALE HORIZ: 1"=30'
VERT: 1"=10'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-63

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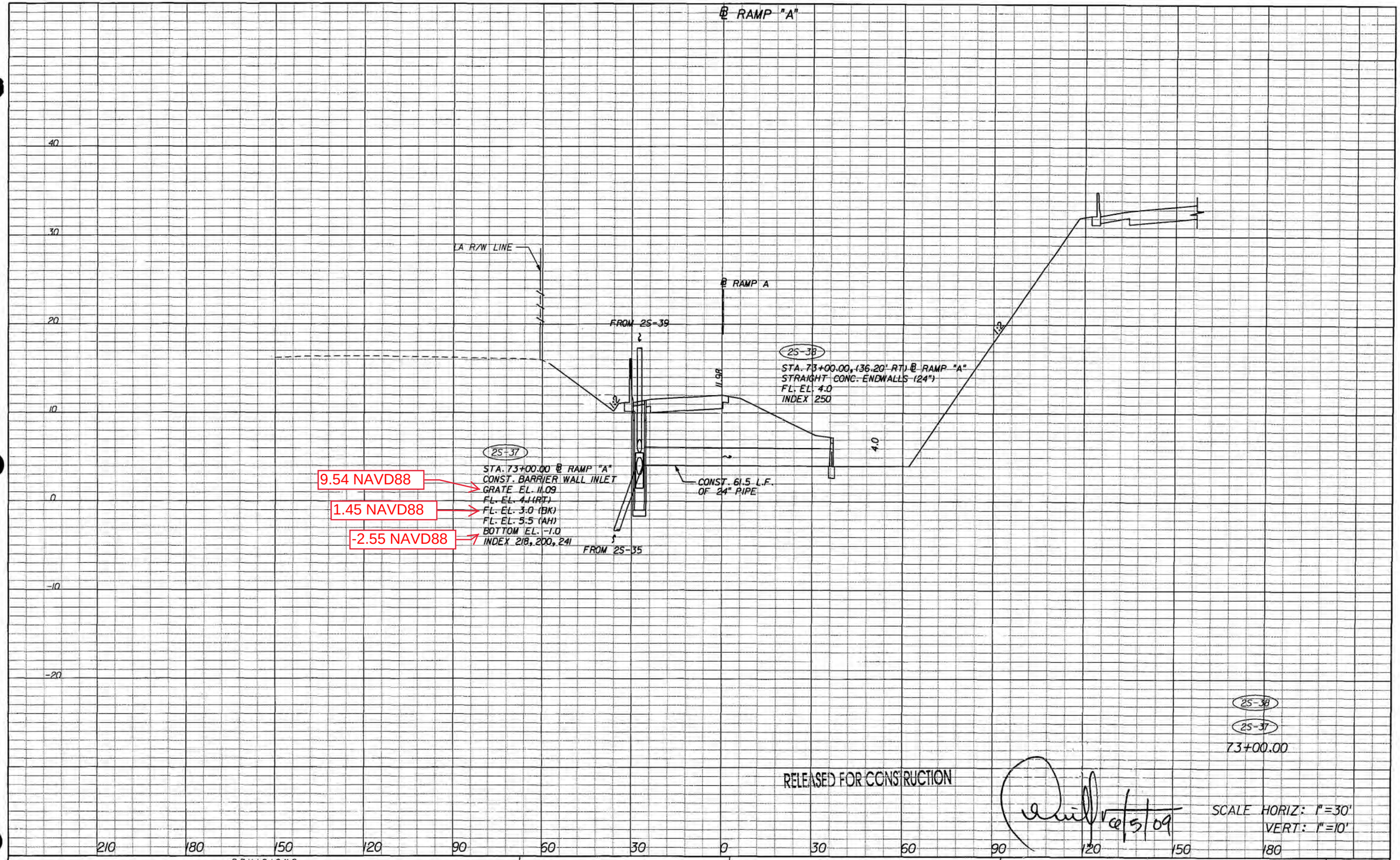

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6/5/09

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VERT: 1"=10'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-64

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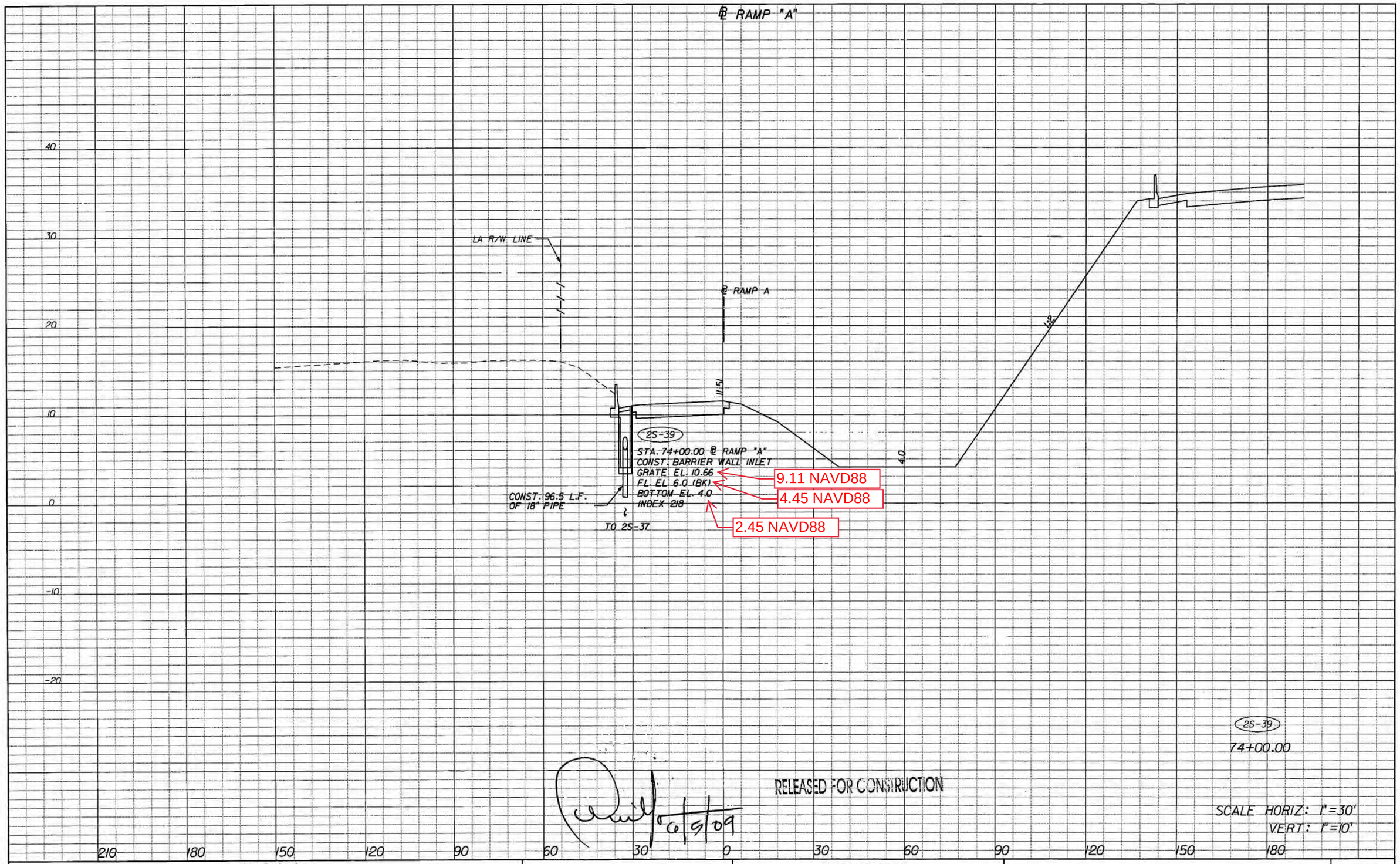

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-65

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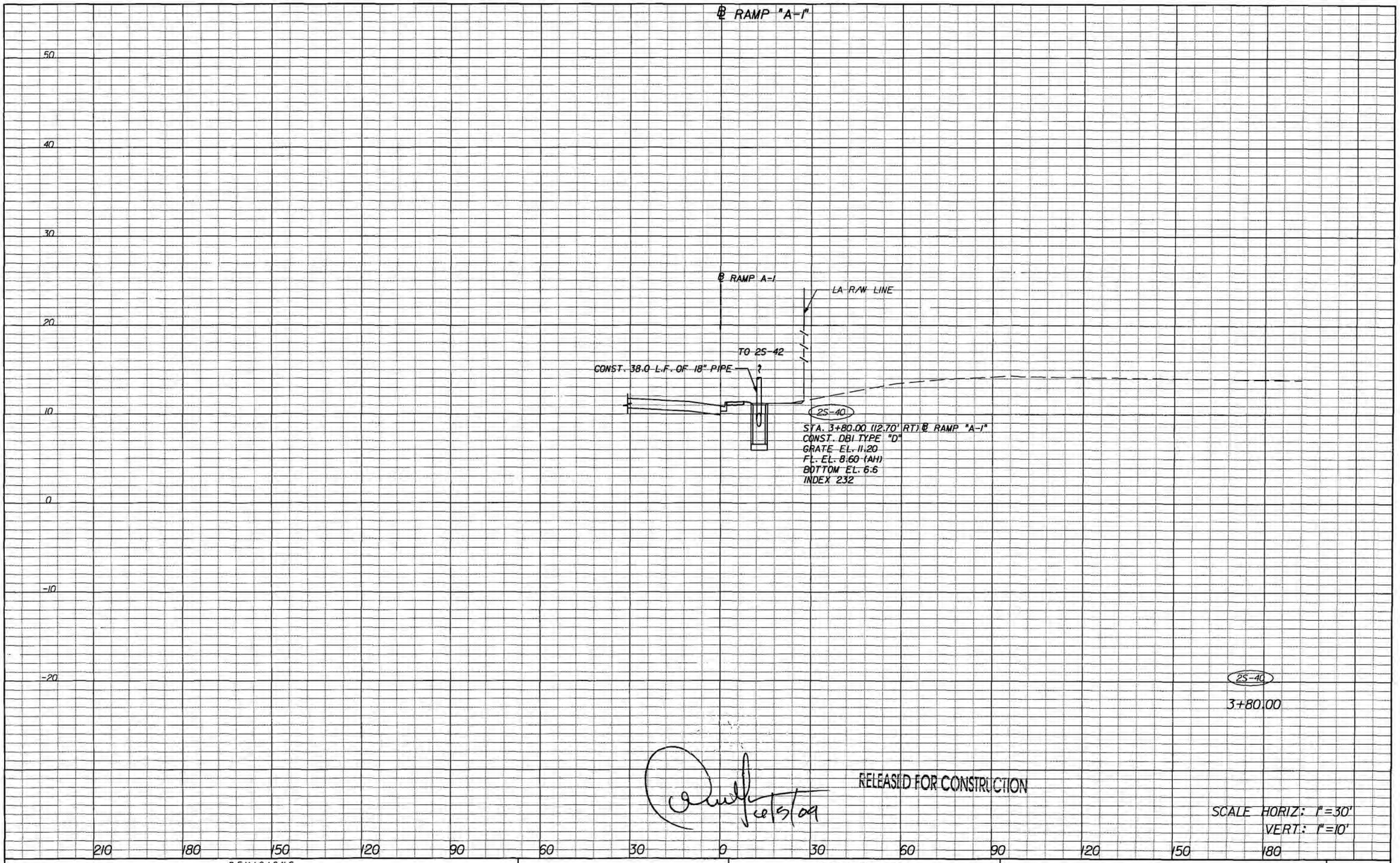


REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

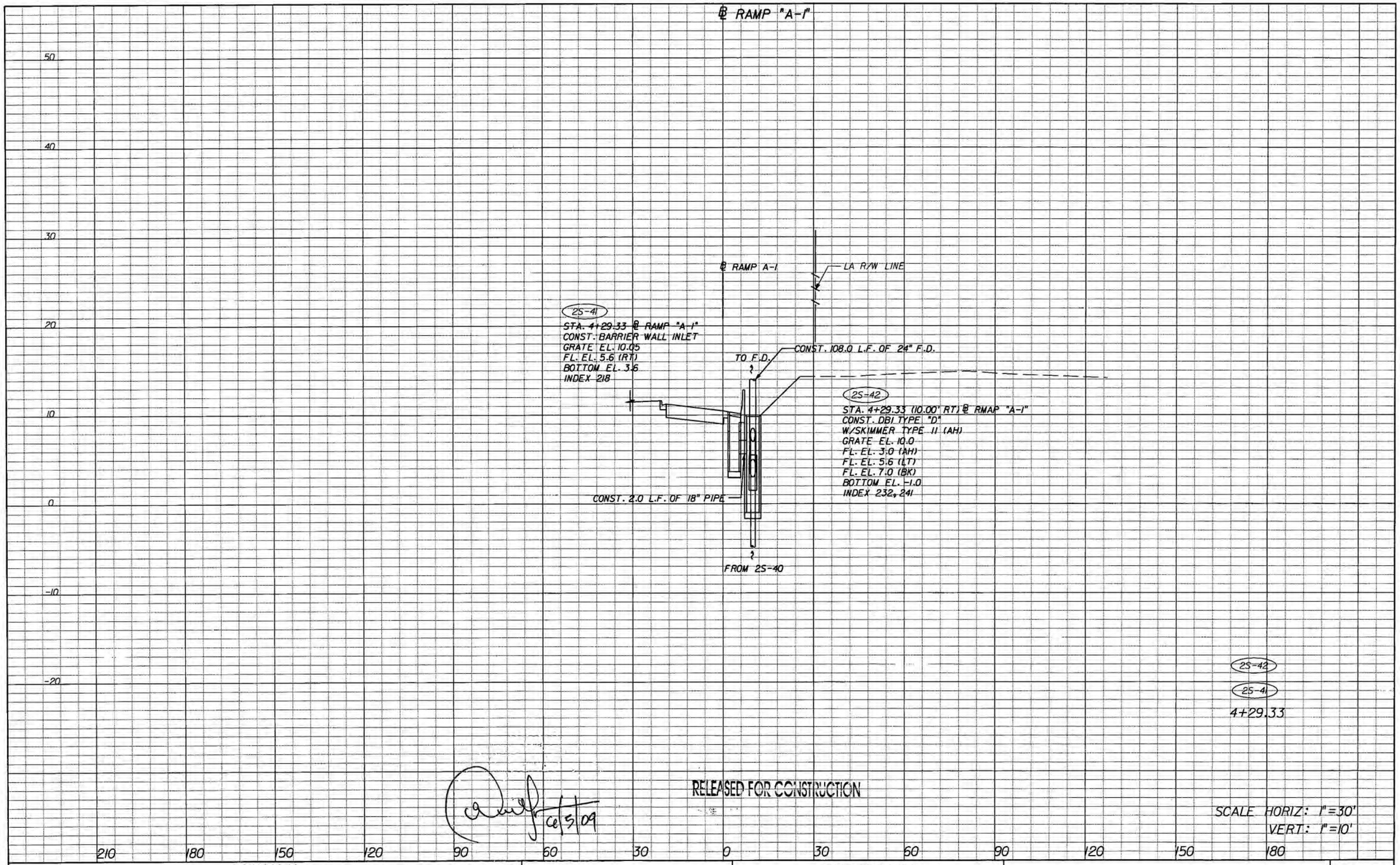
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-66

ppelegrin 6/4/2009 4:41:00 PM K:\249035\5201\Segment 1\drainage\drstr001.dgn



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

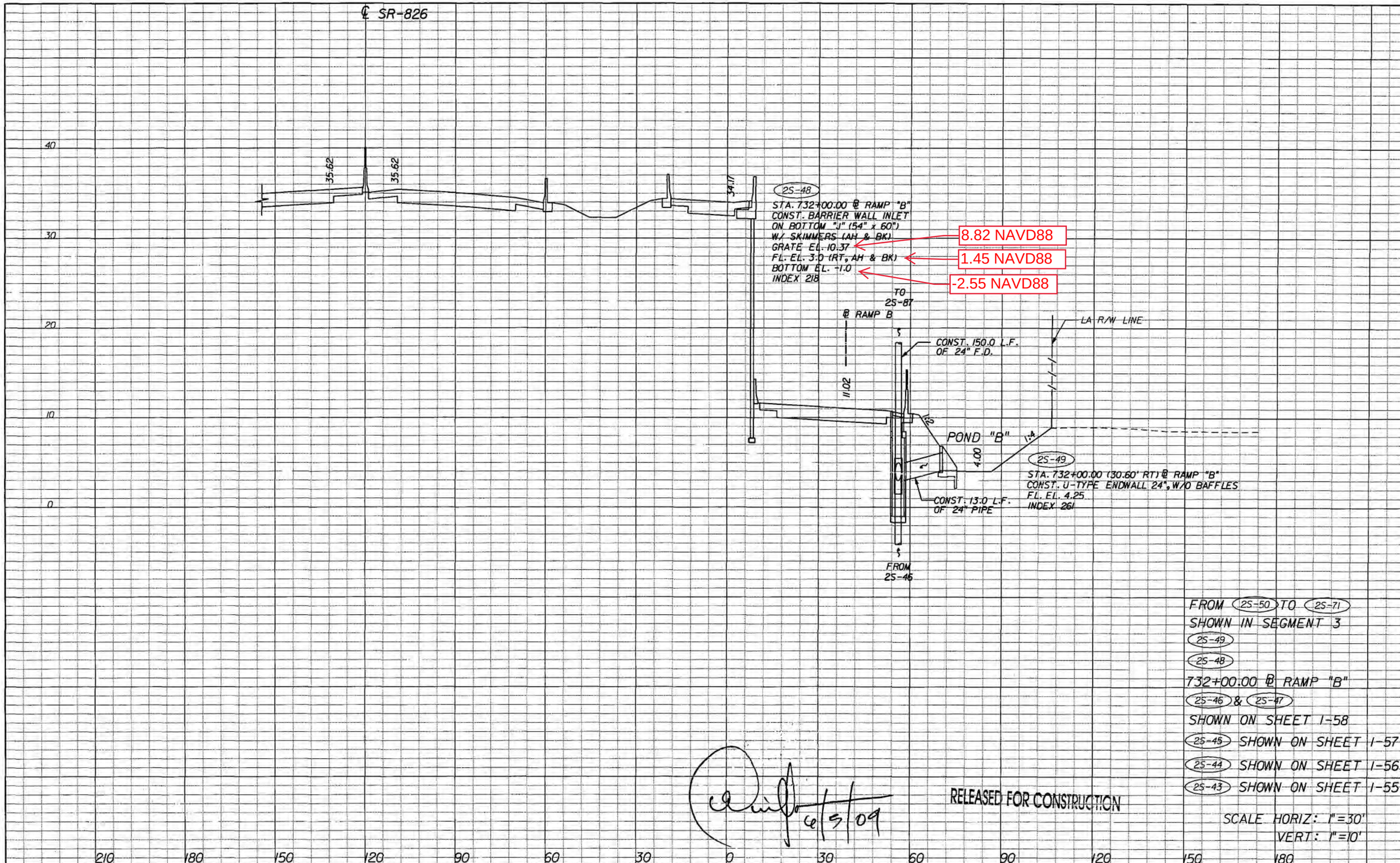
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
1-67

ppelegrin 6/4/2009 4:33:56 PM K:\249035\520\Segment 1\drainage\drstrd01.dgn



FROM 25-50 TO 25-71
SHOWN IN SEGMENT 3
25-49
25-48
732+00.00 ℄ RAMP "B"
25-46 & 25-47
SHOWN ON SHEET 1-58
25-45 SHOWN ON SHEET 1-57
25-44 SHOWN ON SHEET 1-56
25-43 SHOWN ON SHEET 1-55

SCALE HORIZ: 1"=30'
VERT: 1"=10'

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bac engineering
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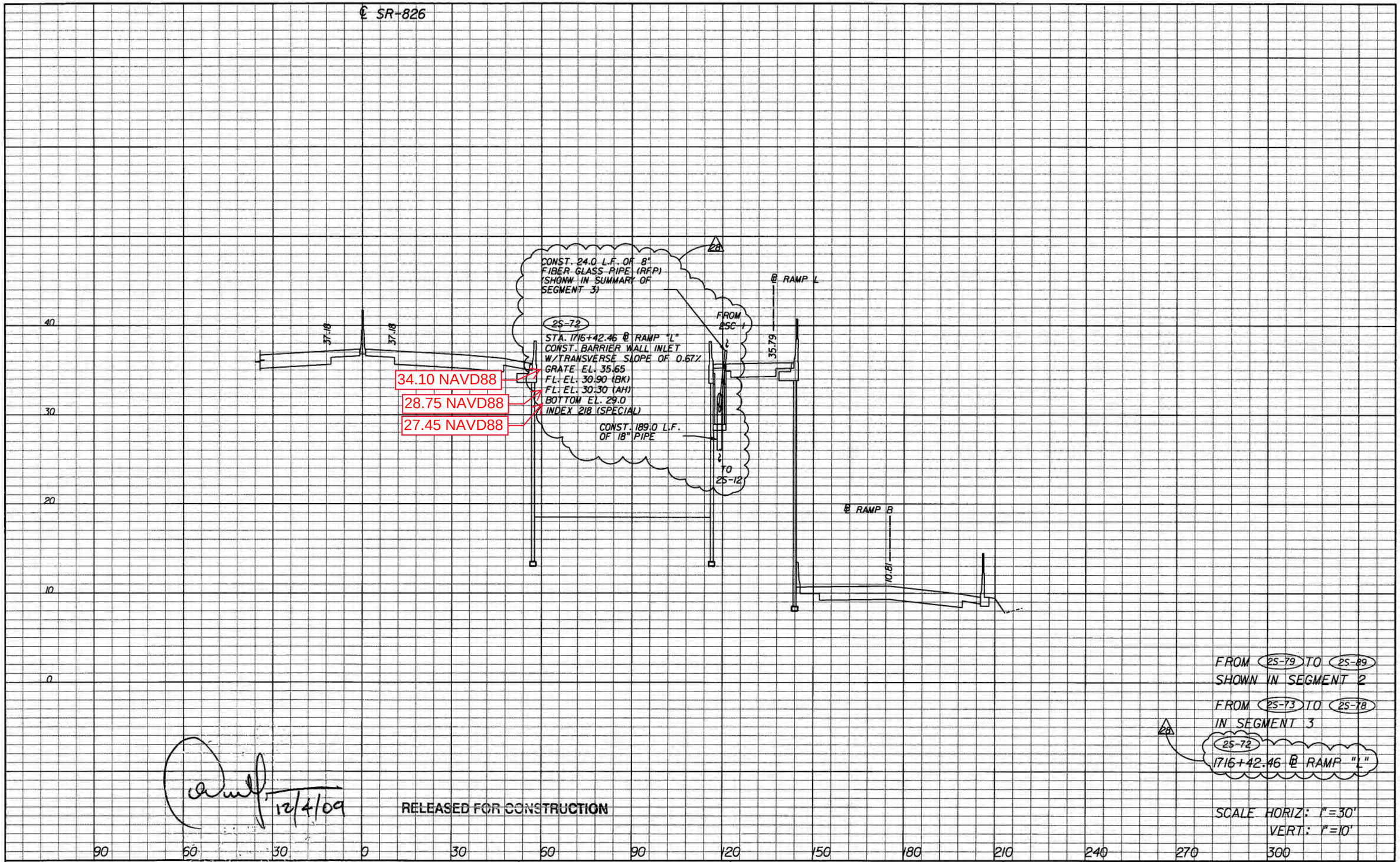
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-68



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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
12/04/09	28 DRAINAGE STRUCTURE RELOCATED		

engineering
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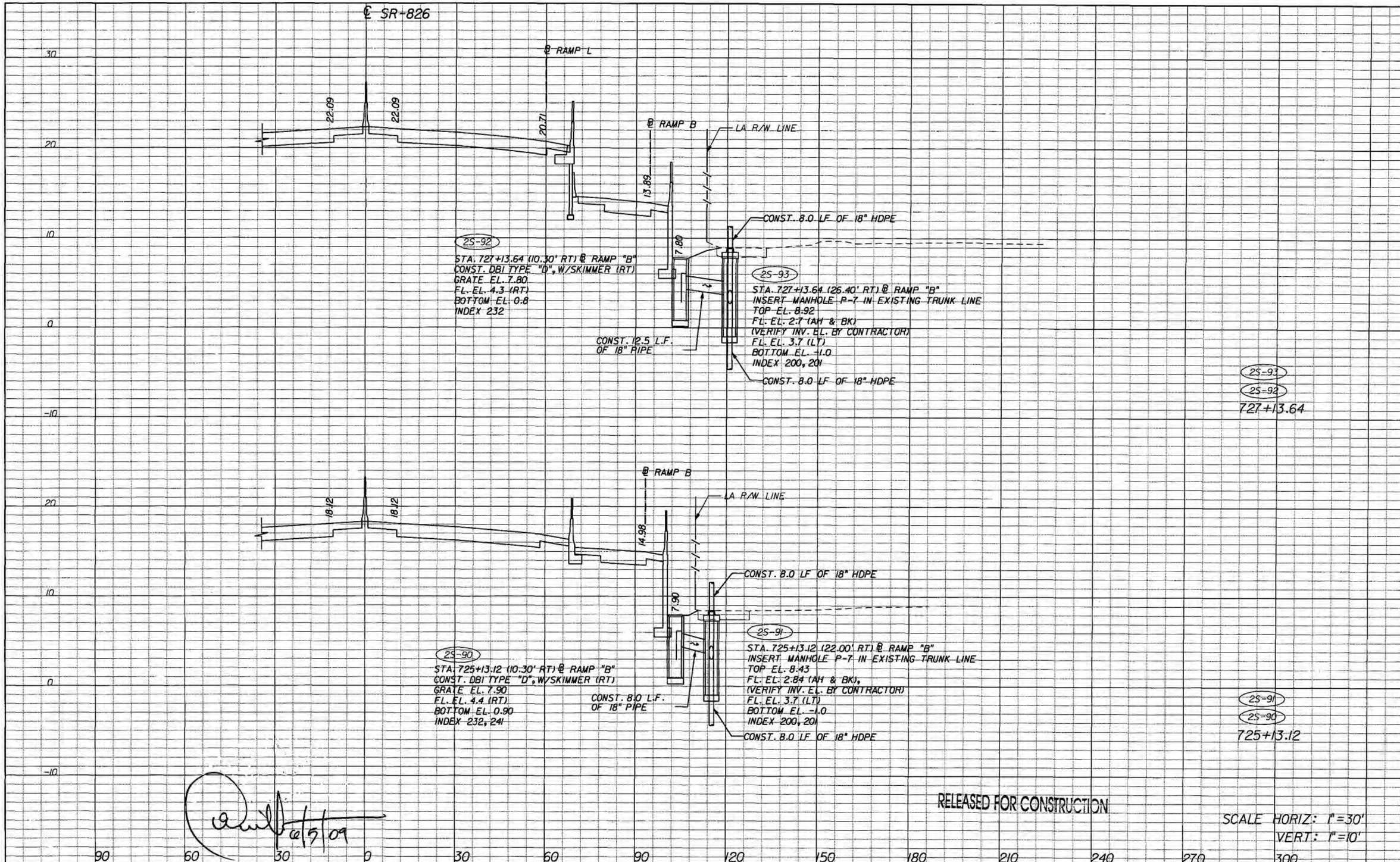
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 1-69



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VERT: 1"=10'

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

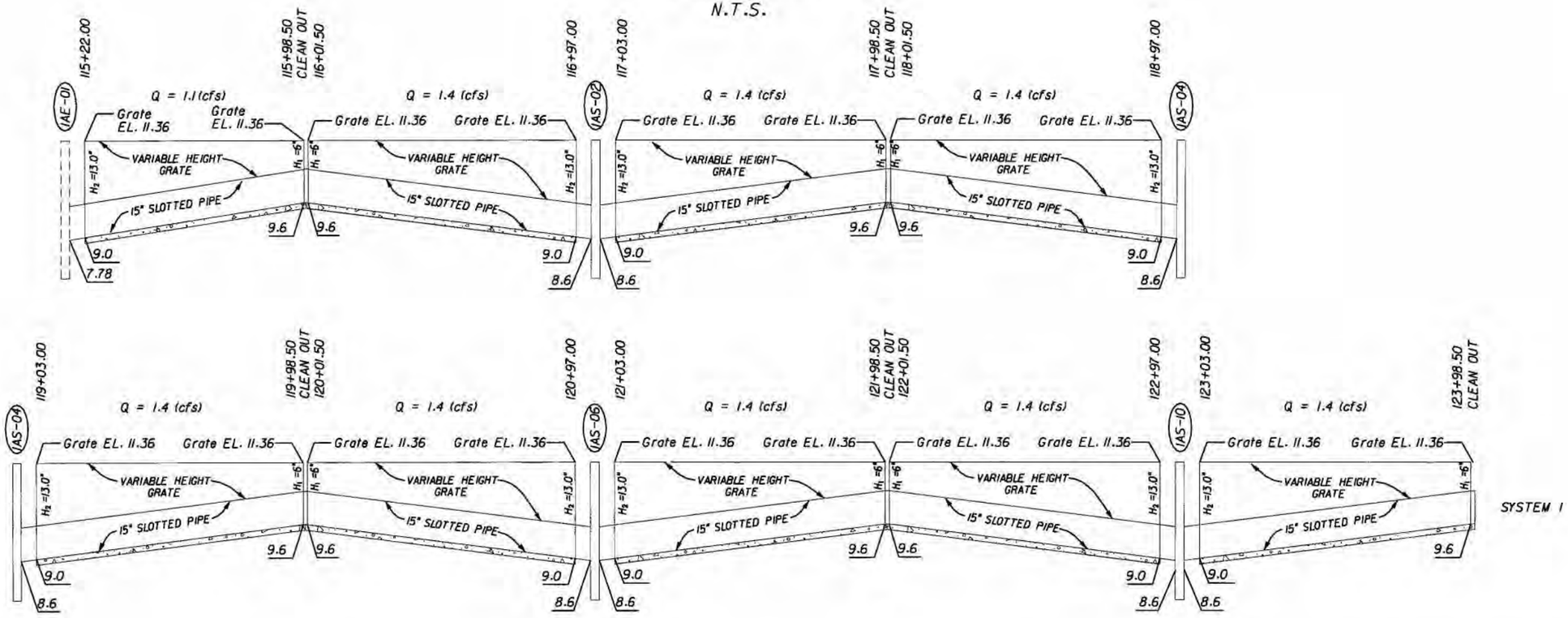
DRAINAGE STRUCTURES

SHEET NO.
1-70

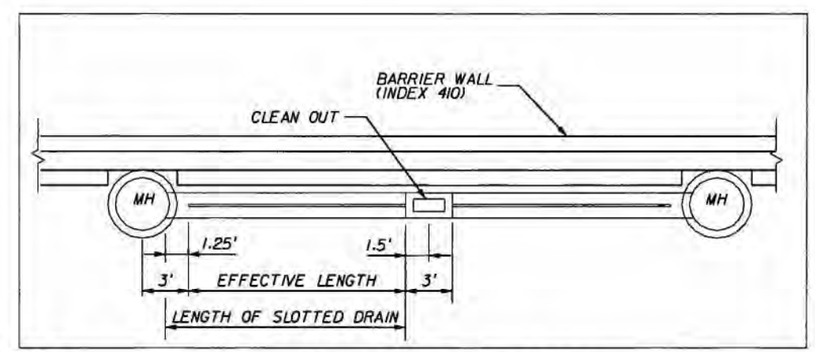
SYSTEM IA (WEST SIDE)

SLOTTED DRAIN

N.T.S.



Stucture No.	Inlet Station.	Side	Slotted Drain From STA.	To STA.	Effective Length	Size (IN)	Upstream Grate	H_1 (IN)	FL	Dowstream Grate	H_2 (IN)	FL	Slope %
1AE-01	115+08.90	AH	115+22.00	115+98.50	86.73	15	11.36	6	9.6	11.36	13.0	9.0	0.67
1AS-02	117+00.00	BK	116+01.50	116+97.00	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
		AH	117+03.00	117+98.50	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
1AS-04	119+00.00	BK	118+01.50	118+97.00	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
		AH	119+03.00	119+98.50	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
1AS-06	121+00.00	BK	120+01.50	120+97.00	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
		AH	121+03.00	121+98.50	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
1AS-10	123+00.00	BK	122+01.50	122+97.00	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
		AH	123+03.00	123+98.50	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61



DRAINAGE LENGTH DETAIL

N.T.S.

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6/5/09

NOTE:

FROM STATION AND TO STATION COLUMNS ARE ACCORDING WITH DIRECTION OF CENTER LINE, NO IN DIRECTION OF FLOW.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 1-71

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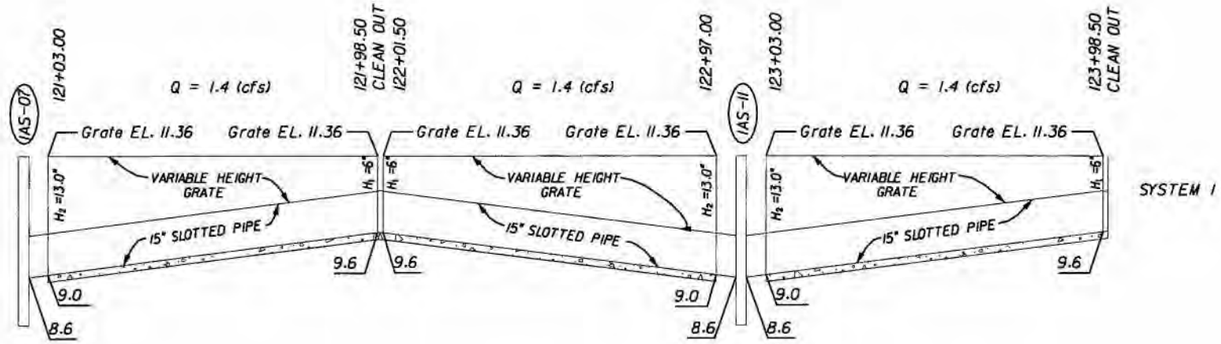
SYSTEM IA (EAST SIDE)
SLOTTED DRAIN
N.T.S.



Stucture No.	Inlet Station.	Side	Slotted Drain From STA.	To STA.	Effective Length	Size (IN)	Upstream Grate	H_1 (IN)	FL	Dowstream Grate	H_2 (IN)	FL	Slope %
1AS-07	121+00.00	AH	121+03.00	121+98.50	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
1AS-11	123+00.00	BK	122+01.50	122+97.00	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61
		AH	123+03.00	123+98.50	95.50	15	11.36	6	9.6	11.36	13.0	9.0	0.61

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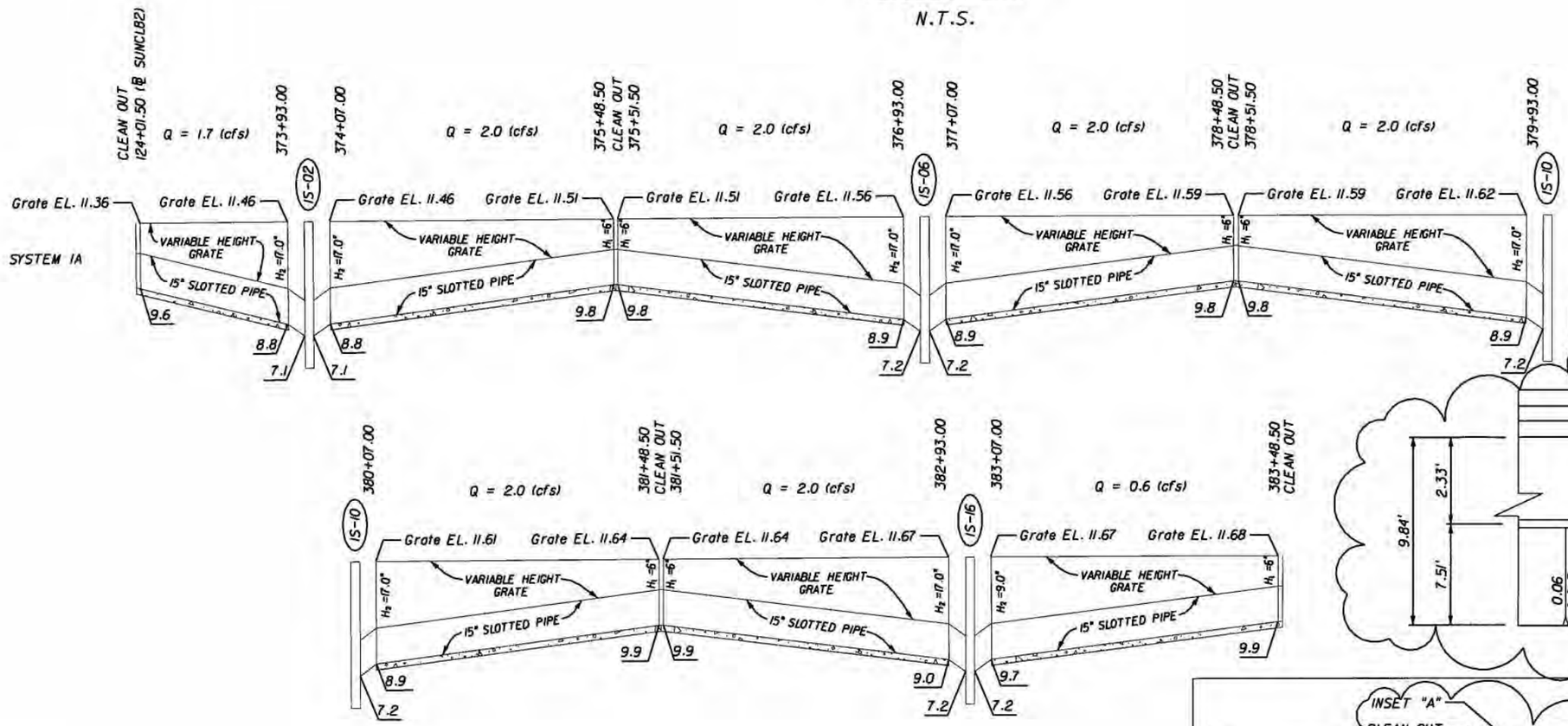
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

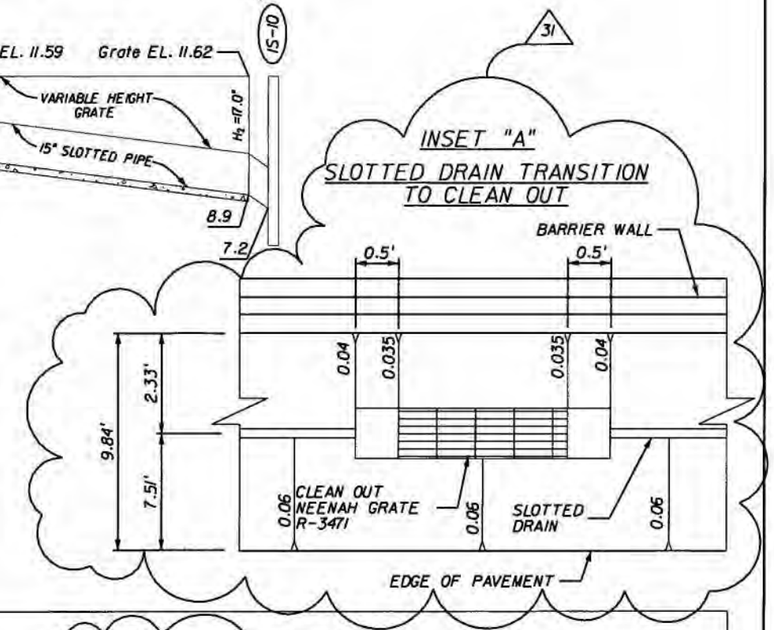
MISCELLANEOUS DRAINAGE DETAILS

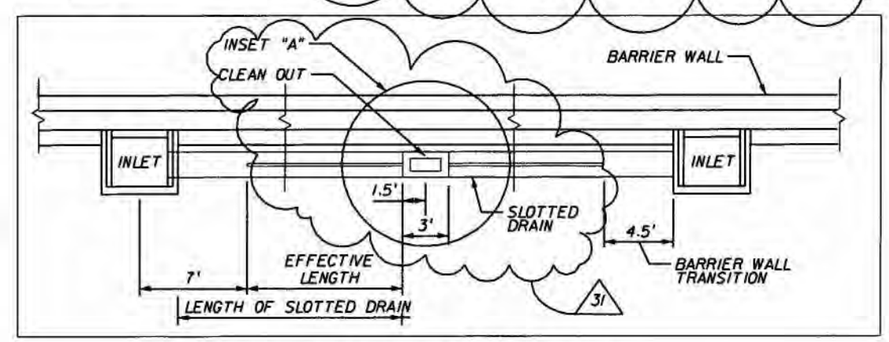
SHEET NO. 1-72

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

SYSTEM I (WEST SIDE)
SLOTTED DRAIN
N.T.S.







Structure No.	Inlet Station.	Slotted Drain					Upstream			Downstream			
		Side	From STA.	To STA.	Effective Length	Size (IN)	Grate	H_1 (IN)	FL	Grate	H_2 (IN)	FL	Slope %
1S-02	374+00.00	BK	124+01.50	373+93.00	117.32	15	11.36	6	9.6	11.46	17.0	8.8	0.70
		AH	374+07.00	375+48.50	141.50	15	11.51	6	9.8	11.46	17.0	8.8	0.68
1S-06	377+00.00	BK	375+51.50	376+93.00	141.50	15	11.51	6	9.8	11.56	17.0	8.9	0.61
		AH	377+07.00	378+48.50	141.50	15	11.59	6	9.8	11.56	17.0	8.9	0.67
1S-10	380+00.00	BK	378+51.50	379+93.00	141.50	15	11.59	6	9.8	11.62	17.0	8.9	0.63
		AH	380+07.00	381+48.50	141.50	15	11.64	6	9.9	11.61	17.0	8.9	0.67
1S-16	383+00.00	BK	381+51.50	382+93.00	141.50	15	11.64	6	9.9	11.67	17.0	9.0	0.63
		AH	383+07.00	383+48.50	41.50	15	11.68	6	9.9	11.67	9.0	9.7	0.62

DRAINAGE LENGTH DETAIL

N.T.S.

NOTE:

FROM STATION AND TO STATION COLUMNS ARE ACCORDING WITH DIRECTION OF CENTER LINE, NO IN DIRECTION OF FLOW.
FOR BARRIER WALL TRANSITION REFER TO DRAINAGE DETAILS SHEET 1-75

12/28/09

RELEASED FOR CONSTRUCTION

RELEASED FOR CONSTRUCTION

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
12/28/09	31 ADDITIONS TO SLOTTED DRAIN DETAIL, TRANSITION DETAILS TO CLEAN OUT		

bcc engineering
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Fax: (305) 670-2351
Certificate of Authorization No. 7184

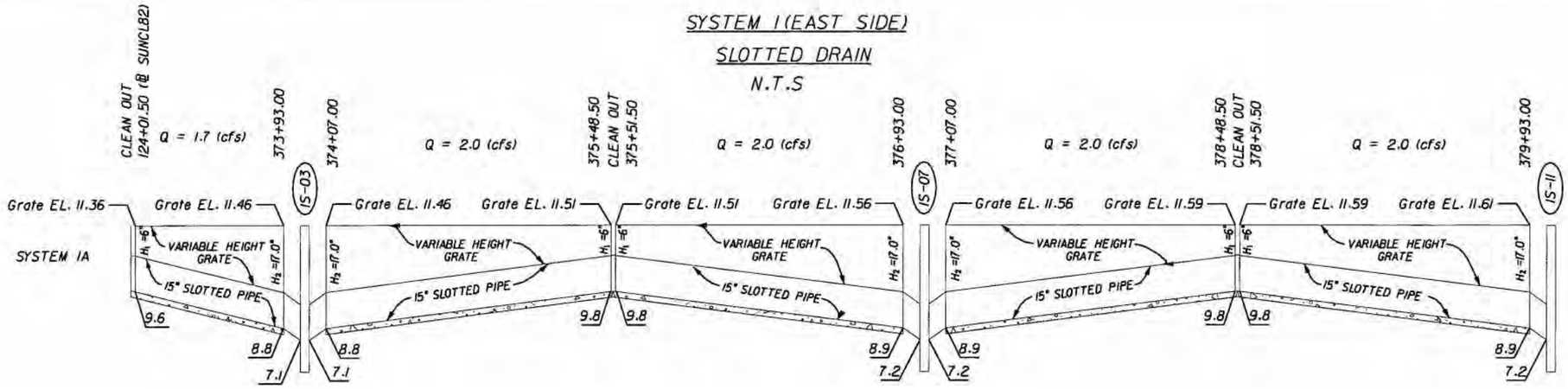
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

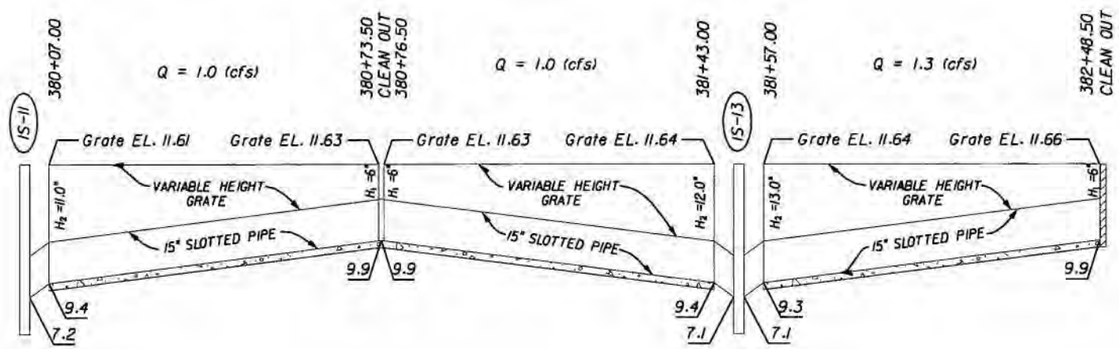
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 1-73

SYSTEM 1 (EAST SIDE)
SLOTTED DRAIN
N.T.S





Stucture No.	Inlet Station.	Slotted Drain					Upstream			Dowstream			
		Side	From STA.	To STA.	Effective Length	Size	Grate	H_1 (IN)	FL	Grate	H_2 (IN)	FL	Slope %
1S-03	374+00.00	BK	124+01.50	373+93.00	117.32	15	11.36	6	9.6	11.46	17.0	8.8	0.70
		AH	374+07.00	375+48.50	141.50	15	11.51	6	9.8	11.46	17.0	8.8	0.68
1S-07	377+00.00	BK	375+51.50	376+93.00	141.50	15	11.51	6	9.8	11.56	17.0	8.9	0.61
		AH	377+07.00	378+48.50	141.50	15	11.59	6	9.8	11.56	17.0	8.9	0.67
1S-11	380+00.00	BK	378+51.50	379+93.00	141.50	15	11.59	6	9.8	11.61	17.0	8.9	0.63
		AH	380+07.00	380+73.50	66.50	15	11.63	6	9.9	11.61	11.0	9.4	0.64
1S-13	381+50.00	BK	380+76.50	381+43.00	66.50	15	11.63	6	9.9	11.64	12.0	9.4	0.73
		AH	381+57.00	382+48.50	91.50	15	11.66	6	9.9	11.64	13.0	9.3	0.66

RELEASED FOR CONSTRUCTION

6/5/09

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bic engineering
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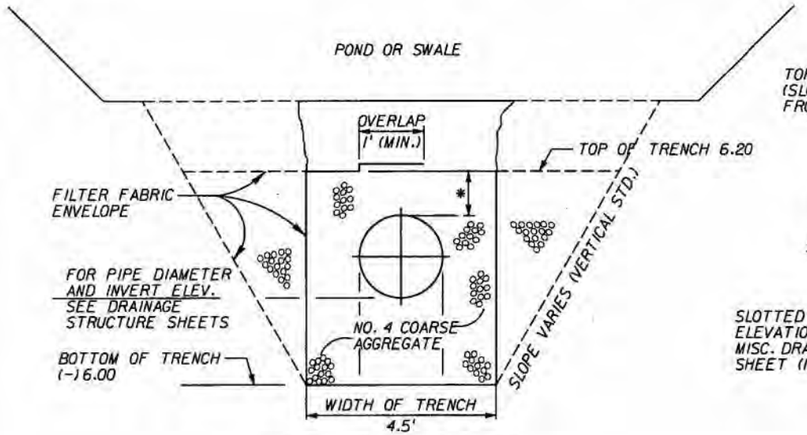
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 1-74

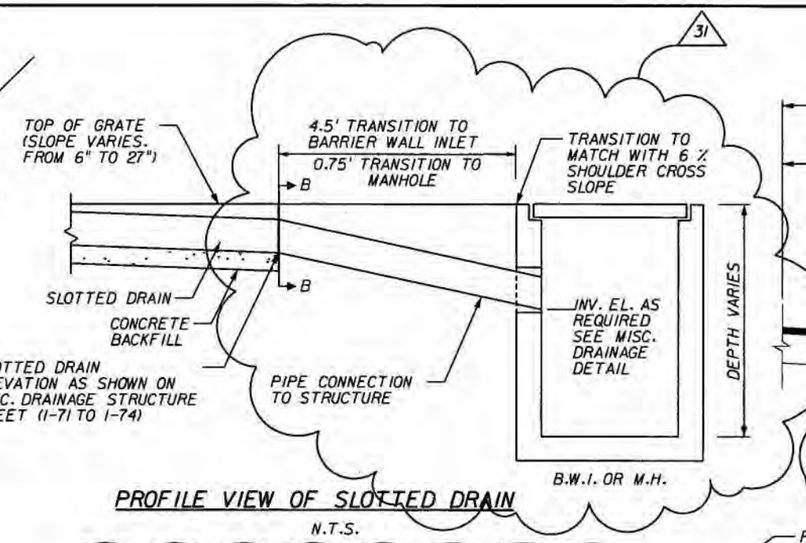


FRENCH DRAIN DETAIL

FOR ADDITIONAL DETAILS SEE INDEX NO. 285

N.T.S

* SYSTEM 1-1.20 (FT)
SYSTEM 2-0.75 (FT)

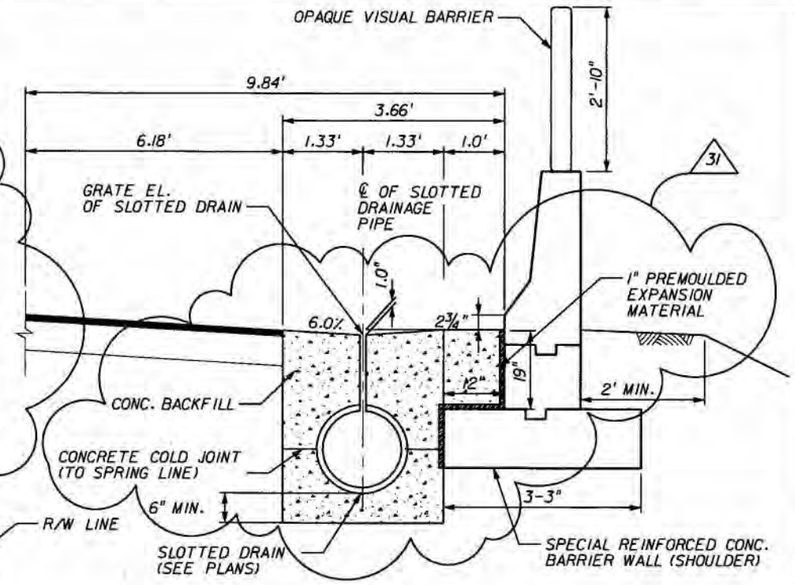


PROFILE VIEW OF SLOTTED DRAIN

N.T.S.

(IS-02), (IS-03), (IS-06), (IS-07), (IS-10), (IS-11), (IS-13), (IS-16)

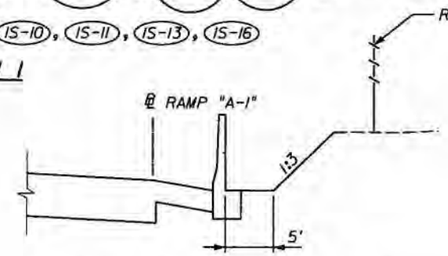
SYSTEM 1



SLOTTED DRAIN SECTION B-B

N.T.S.

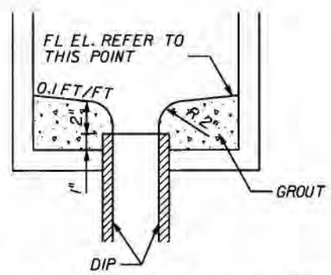
FOR ADDITIONAL DETAILS SEE STD. INDEX 410



TYPICAL BACK SIDE RAMP "A-1"

N.T.S.

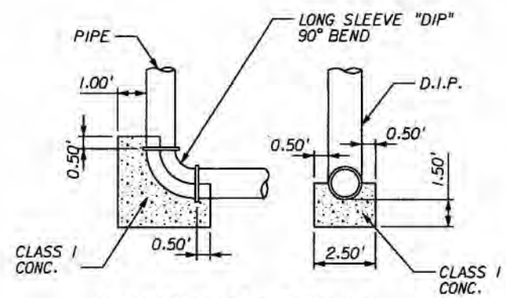
FROM STA 3+40.00 TO 6+20.00



NOTE: GROUT TO CONSIST OF 3:1 SAND & MIXTURE OR ANY CLASS OF CONCRETE.

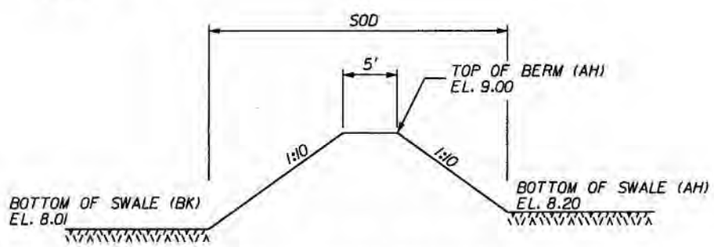
VERTICAL DRAIN STRUCTURE INVERT DETAIL

N.T.S



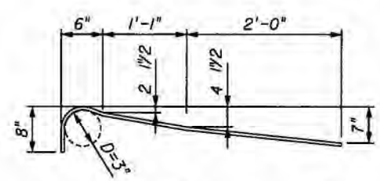
THRUST BLOCK DETAILS

N.T.S.



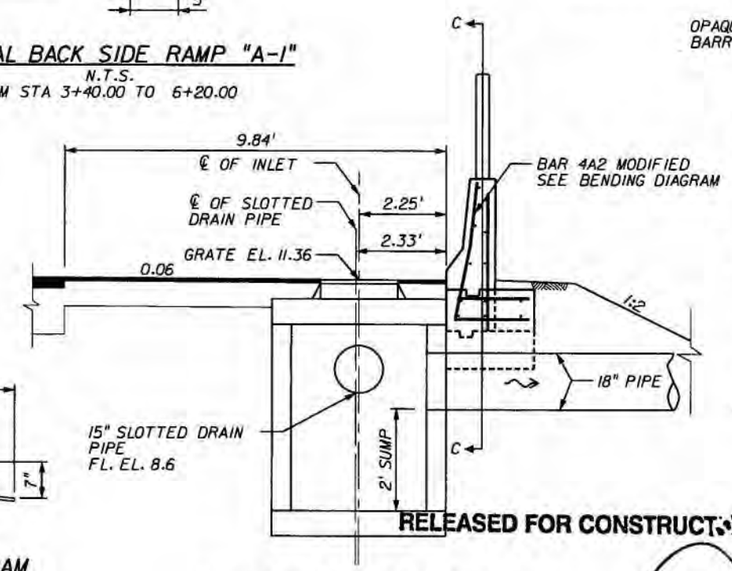
DITCH BLOCK DETAILS SECTION A-A

N.T.S.



BAR 4A2 BENDING DIAGRAM

FOR USE WHERE STEP BARRIER FOOTING IS REQUIRED OVER PIPES



RELEASED FOR CONSTRUCTION

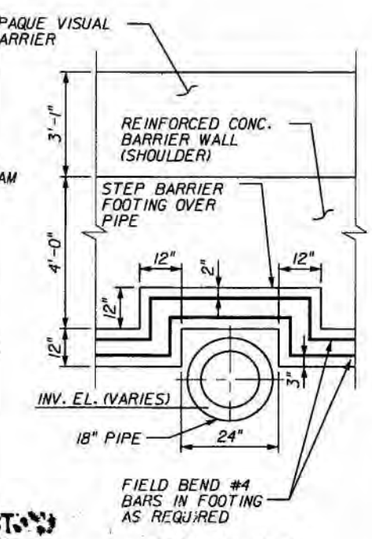
12/28/09

MANHOLE TYPE P-7 (ALT. B)

N.T.S.

(IAS-02), (IAS-04), (IAS-06), (IAS-07), (IAS-10), (IAS-11)

SYSTEM IA



SECTION C-C

N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/28/09	31 ADDITIONS TO SLOTTED DRAIN DETAIL, CONCRETE COLD JOINT, TRANSITION DETAILS TO STUCTURE		

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Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 1-75

$USER$ $DATE$ $TIME$ $FILE$

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINAL AS-BUILT PLANS

~~CONTRACT PLANS~~

FINANCIAL PROJECT ID 249035-1-52-01

(FEDERAL FUNDS)

MIAMI-DADE COUNTY (87260)

STATE ROAD NO. 826 (PALMETTO EXPRESSWAY)

SECTION 2

MILLER DRIVE

SEGMENT 2

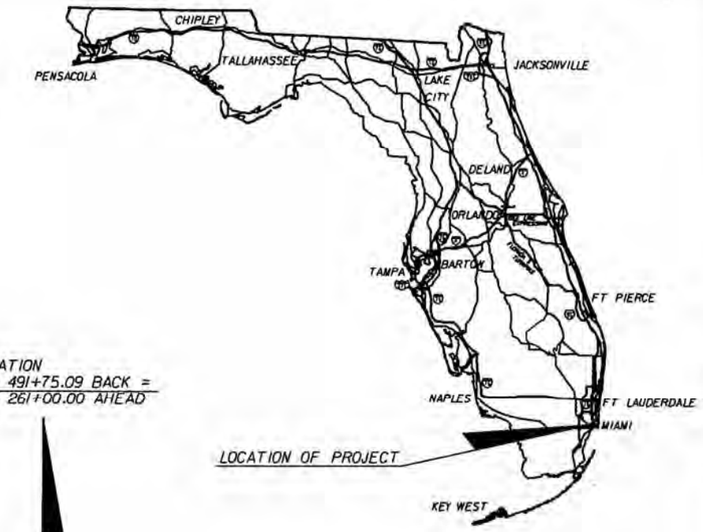
COMPONENTS OF SEGMENT 2 CONTRACT PLANS SET

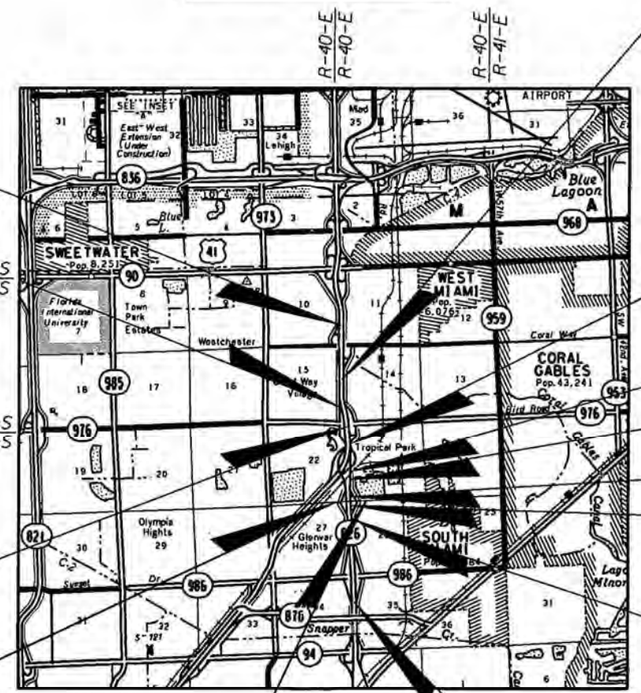
ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
LIGHTING PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2-1	KEY SHEET
2-2 2-3	DRAINAGE MAP
2-4 2-5	TYPICAL SECTIONS
2-6	SUMMARY OF DRAINAGE STRUCTURES
2-7	OPTIONAL MATERIALS TABULATION
2-8	PROJECT LAYOUT
2-9	GENERAL NOTES
CTL-1 CTL-4	PROJECT NETWORK CONTROL
CACD	CURVE AND COORDINATE DATA
2-10	MILLER DRIVE (SW 56th ST.) PGL TIES TO B.L. SURVEY
2-11 2-13	ROADWAY PLANS
2-14	PROFILES
2-15 2-19	DRAINAGE STRUCTURES
2-20 2-23	CROSS SECTIONS
2-24	ROADWAY SOIL SURVEY





END PROJECT
STA 295+40.00 ℄ S.R. 826

END BRIDGE No. 8
STA. 462+04.60

T-53-S
T-54-S

T-54-S
T-54-S

BEGIN BRIDGE NO. 8
STA 460+44.18

BEGIN CONSTRUCTION SEGMENT 2
STA 94+17.08
@ MILLER DRIVE

END CONSTRUCTION SEGMENT 2
STA 105+72.00
@ MILLER DR.

BEGIN PROJECT
STA 96+00.00
M.P. 1.8048 (NB)

EQUATION
STA 491+75.09 BACK =
STA 261+00.00 AHEAD

EQUATION
STA. 105+92.37 S.R. 874 BACK =
STA 434+01.57 AHEAD

END BRIDGE NO. 6
STA 424+21.75

BEGIN BRIDGE NO. 6
STA 420+91.75

END BRIDGE NO. 1
STA 406+74.11

BEGIN BRIDGE NO. 1
STA 405+14.36

EQUATION
STA. 125+00.00 BACK =
STA 373+74.18 AHEAD

PROJECT LENGTH IS BASED ON ℄ OF CONSTRUCTION SR 826 NB

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	17,490.74	3.313
BRIDGES	650.17	0.123
NET LENGTH OF PROJECT	18,140.91	3.436
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	18,140.91	3.436

FDOT PROJECT MANAGER: JASON CHANG, P.E.

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008,
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01-01-08
For Design Standards Modifications click on "Design Standards" at the following web site:
http://www.dot.state.fl.us/rddesign/

REVISIONS:

ROADWAY PLANS: ROADWAY PLANS 2-12
SIGNING AND PAVEMENT MARKING PLANS
SHEET S2-2
(REVISED 12/3/10)

RELEASED FOR CONSTRUCTION

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

ARIEL MILLAN, P.E.
BCC ENGINEERING
7300 NORTH KENDALL DRIVE,
SUITE 400
MIAMI, FL 33156
(305) 670-2350

PLANS PREPARED BY:

bcc engineering
7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351
Certificate of Authorization No. 7184

Certificate of Authorization No. 7184
Contract No: E-6E59
Vendor Identification No: 65-0540100

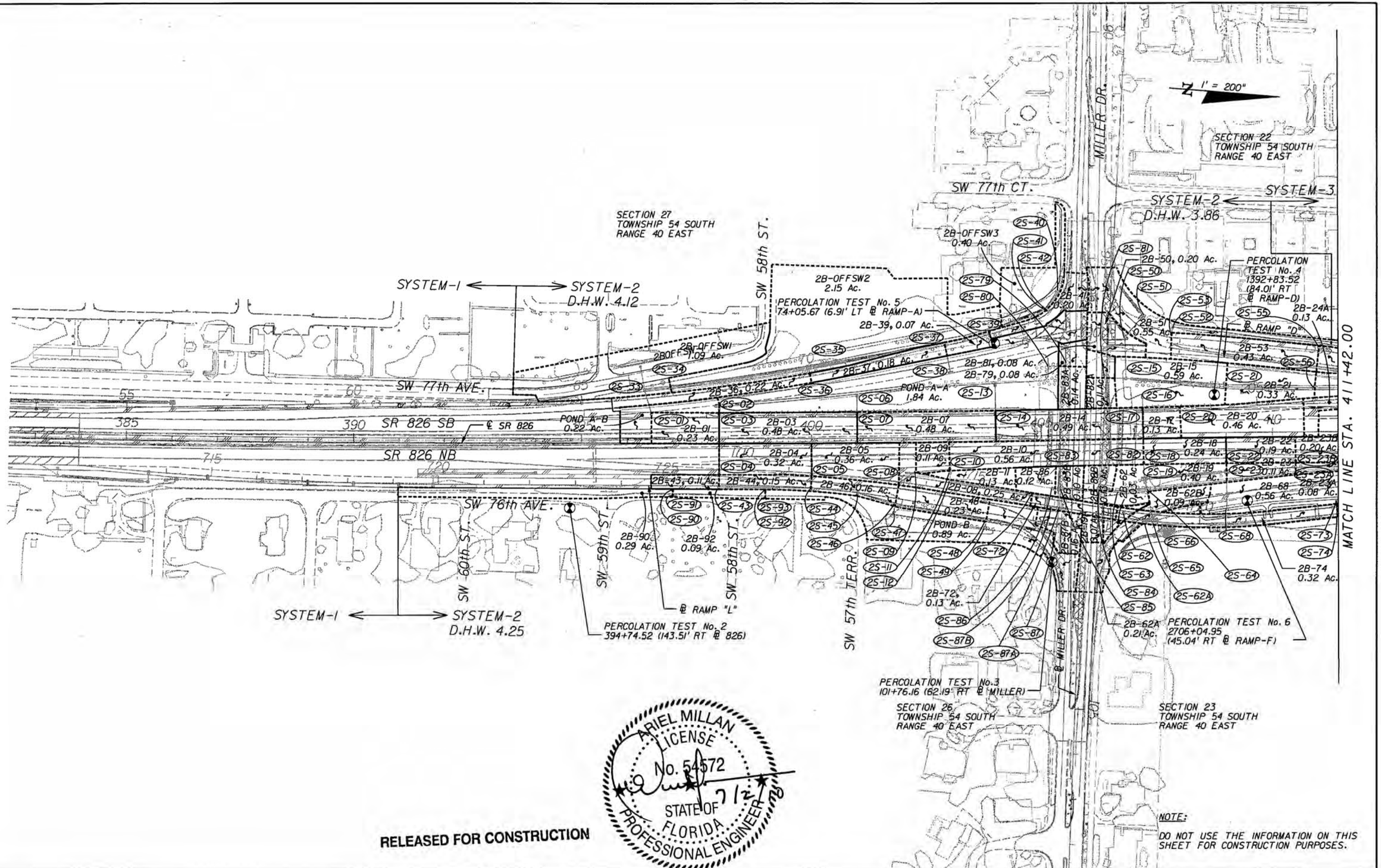
NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

ARIEL MILLAN LICENSE No. 54572 12/2/10 STATE OF FLORIDA PROFESSIONAL ENGINEER

ROADWAY PLANS ENGINEER OF RECORD: ARIEL MILLAN, P.E.

P.E. NO.: 54572

FISCAL YEAR	SHEET NO.
08	2-1



ARIEL MILLAN
LICENSE
No. 54572
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

7/2

RELEASED FOR CONSTRUCTION

NOTE:
DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bac engineering
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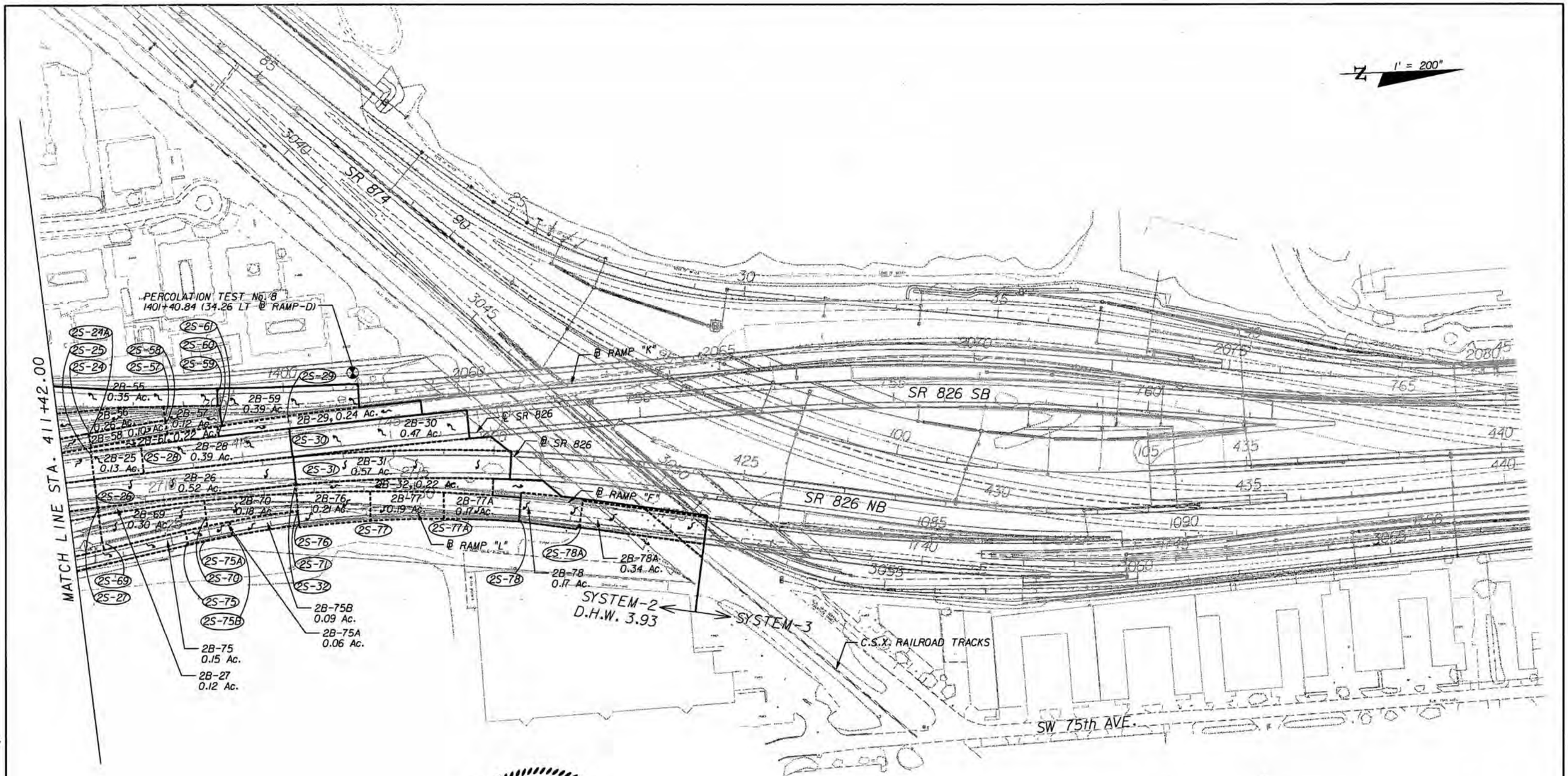
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE MAP

PAGE NO. 2-2



ARIEL MILLAN
LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/2/10

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bc engineering

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE MAP

PAGE NO. 2-3

ppelagrin 7/2/2010 9:10:53 AM \\sqlserver\Cadd\249035\5201\Segment 2\drainage\drmprd02.dgn

NOTES:
1. FOR P.G.L. LT. & RT. TIES TO ℄ SURVEY SEE SHEET No. 2-10
2. FOR RAMPS "A", "A-1", "D" & "D-1" TERMINAL DETAILS SEE SEGMENTS 1 & 3 PLANS
3. CURB RAMPS CR-20 TO BE 13' & 15' WIDE AS SHOWN

BEGIN SEGMENT 2
BEGIN CONSTRUCTION
BEGIN MILLING AND RESURFACING
CONN. TO EXIST. PAVEMENT & C&G. (LT & RT.)
STA. 94+17.08

S.W. 77th COURT
S.W. 56th ST. (MILLER DRIVE)
S.W. 56th STREET (MILLER DR.)
℄ SURVEY, SECTION LINE & ℄ MILLER DRIVE
N 85° 52' 01" E
P.G.L. LT.
P.G.L. RT.
CONNECT TO EXIST. SWK. 94+17.64, 49.91' LT
CONNECT TO EXIST. SWK. 94+17.39, 42.10' RT
CONST. 13' CONC. SWK.
CONST. 6' CONC. SWK.
CONST. CONC. C & G. TYPE "F"
CONST. 50.0 LF OF 24" F.D.
CONST. 59.5 LF OF 24" PIPE
CONST. 87.0 LF OF 24" PIPE
CONST. 15' CONC. SWK.
CONST. 36.0 LF OF 24" PIPE
CONST. 38.0 LF OF 18" PIPE
CONST. 2.0 LF OF 18" PIPE
CONST. 108.0 LF OF 24" F.D.
EXIST. PAVT TO BE MILLED AND RESURFACED
L.A. R/W LINE
RAMP "D"
RAMP "D-1"
RAMP "A"
RAMP "A-1"
MATCH LINE STA. 97+40.00 (52)
MILLER DR.
PAVED
SOD
OE (138 kV & 13 kV)
OE (13 kV)
CATV
BT
8" WM

RELEASED FOR CONSTRUCTION
DIONISIO FELIPE TORRES
LICENSE
No. 58196
2/16/12
STATE OF FLORIDA
PROFESSIONAL ENGINEER

LEGEND

- PAVEMENT WIDENING
- PROPOSED SHOULDER PAVEMENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2/16/12	76 UPDATED CURB RAMPS AND 24" FD (2S-51)		

DIONISIO FELIPE TORRES, P.E.
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Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351
Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (51)

SHEET NO. 2-11

$USER$ $DATE$ $TIME$ $FILE$

NOTES:
1. FOR P.G.L. LT. & RT. TIES TO ℄ SURVEY SEE SHEET No. 2-10
2. FOR RAMPS "B", "B-1", "F" & "F-1" TERMINAL DETAILS SEE SEGMENTS 1 & 3 PLANS
3. CURB RAMPS CR-20 TO BE 13' & 15' WIDE AS SHOWN

1" = 40'

MATCH LINE STA. 97+40.00 (51)

MATCH LINE STA. 103+00.00 (53)

SR 826 SB

SR 826 NB

RAMP "F"

RAMP "F-1"

RAMP "B-1"

RAMP "B"

RAMP "L"

S.W. 56th ST. (MILLER DRIVE)

MILLER DR.

EXIST. CONC. WALL (TO REMAIN)

TYPE B FENCE (6' HIGH)

L.A. R/W LINE

END 13' CONC. SWK. CONST. CONNECT TO EXIST. SWK. BEGIN 4' CONC. SWK. CONST. STA. 102+80.00

SAW CUT

CONST. 4' CONC. SWK.

FENCE GATE TYPE B (10' WIDE, 6' HIGH)

CONST. 13' CONC. SWK.

CONST. 15' CONC. SWK.

CONST. CONC. C & G. TYPE "F"

REPLACE EXIST. TYPE P-5 INLET TOP, WITH MANHOLE TOP & COVER AT EL. 10.90

EXIST. 18" CMP TO REMAIN

EXIST. 2-24" PIPE TO REMAIN

CONST. 4' CONC. SEPARATOR

CONST. 24.5 LF OF 30" PIPE

CONST. 173.5 LF OF 24" PIPE

CONST. 6' CONC. SWK.

CONST. 92.5 LF OF 24" PIPE

EXIST. ENDWALL AND 2-24" PIPE TO BE REMOVED

CONST. 96.5 LF OF 24" PIPE

CONST. 159.0 LF OF 24" F.D.

CONST. 24.0 LF OF 30" FRP W/ 11¼° ELBOW AT STA. 1716+60.00

MSE WALL

POND "D" BOTTOM EL. 7.5

CONST. 212.0 LF OF 24" F.D.

CONST. 44.5 LF OF 16" DIP

CONST. 76.6 LF OF 18" PIPE

CONST. 26.5 LF OF 24" PIPE

CONST. 151.5 LF OF 24" F.D.

CONST. 15' CONC. SWK.

CONST. 6.5 LF OF 18" PIPE

CONST. 91.5 LF OF 24" PIPE

CONST. 56.5 LF OF 16" DIP

CONST. 13.5 LF OF 2-24" PIPES

CONST. 58.0 LF OF 30" PIPE

CONST. 18.5 LF OF 24" PIPE

CONST. 12.5 LF OF 30" PIPE & CONNECT TO EXIST. 30" PIPE

EXIST. ENDWALL TO BE REMOVED & PLUG EXIST. 30" NORTHERN PIPE

CONST. 48.0 LF OF 18" PIPE

CONST. 12.5 LF OF 18" PIPE

EXIST. ENDWALL & PIPE TO BE REMOVED

CONST. 21.5 LF OF 30" PIPE

CONST. 4.0 LF OF 2-24" PIPES

PC STA. 1718+19.46

POT STA. 2702+52.39

PC STA. 1+71.84

PT STA. 4+51.13

PT STA. 98+42.50 Δ=01° 28' 34" RT

N 85° 52' 01" E

N 87° 20' 35" E

N 88° 20' 35" E

N 4° 46' 45" E

P.G.L. LT.

℄ SURVEY, SECTION LINE & MILLER DRIVE

SOD

LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

DIONISIO FELIPE TORRES LICENSE No. 58196 STATE OF FLORIDA PROFESSIONAL ENGINEER 2/16/12

2/16/12 76 UPDATED CURB RAMPS. MODIFIED CURB & GUTTER. ADDED FLUMES ALONG RAMP F.

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
12/3/10	47 CHANGED RAMP "F" CONFIGURATION AT S.W. 56th ST. (MILLER DR.)	6/22/11	60 DRAINAGE CONNECTION BETWEEN 2S-81, 2S-82 AND 2S-84 WERE MODIFIED AND STRUCTURES 2S-81A AND 2S-84A WERE ADDED
3/18/11	53 DRAINAGE CONNECTION WAS MODIFIED		

bec engineering

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Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (52)

SHEET NO. 2-12

$USER$ $DATE$ $TIME$ $FILE$

NOTES: 1. FOR P.G.L. LT. & RT. TIES TO ℄ SURVEY SEE SHEET No. 2-10

1" = 40'

N

STA. 104+00.00 (℄ MILLER DRIVE)
CONST. GUTTER INLET TYPE 5
ON "J" BOTTOM (42" X 60")
FL EL. 2.0 (AH & BK)
BOTTOM EL. 0.0
INDEX 211
(CONTRACTOR SHOULD VERIFY
THE LOCATION AND INVERT
OF THE EXIST. 36" CMP.)

END SEGMENT 2
END CONSTRUCTION
END MILLING AND RESURFACING
STA. 105+72.00

R/W LINE

SAW CUT EXIST. SWK.
CONNECT TO EXIST. DRIVEWAYS & SWK.

CONST. 4.0 LF
OF 36" PIPE

EXIST. 36" CMP
TO REMAIN

CONST. 4'
CONC. SWK.

CONST. CONC. C & G.
TYPE "F"

25-870

CONST. 4.0 LF
OF 36" PIPE

CONST. 4' CONC. SWK.

P.G.L. LT.

8.19'
+83.39

7.13'
+51.74

R 120'

104

105

106

107

108

S.W. 56th ST. (MILLER DRIVE)

N 87° 20' 35" E

SOD

R 5.5'

℄ SURVEY, SECTION LINE & ℄ MILLER DRIVE

P.G.L. RT.

CONST. CONC. C & G.
TYPE "F"

12.93'
+94.49

CONST. CONC. SWK.

+41.68

+84.29

22'

+71.87
34.80' RT

R 42'

76

8" WM

SOD

CONST. 6' CONC. SWK.

EXIST. SWK. (TO REMAIN)

CR-3

CONST. CONC. C & G.
TYPE "F"

+07.35
54.86' RT

R/W LINE

R/W LINE

CONNECT TO EXIST. SWK.
STA. 103+84.34

CONNECT TO EXIST.
C & G. AND SWK.

END MILLING
& RESURFACING

EXIST. SWK.
(TO REMAIN)

S.W. 75th AVE.

S.W. 74th COURT

MATCH LINE STA. 103+00.00 (52)

MATCH LINE STA. 108+60.00

DIONISIO FELIPE TORRES
LICENSE
No. 58196
2/16/12
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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MILLER DR.

LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2/16/12	76 UPDATED CURB RAMPS.		

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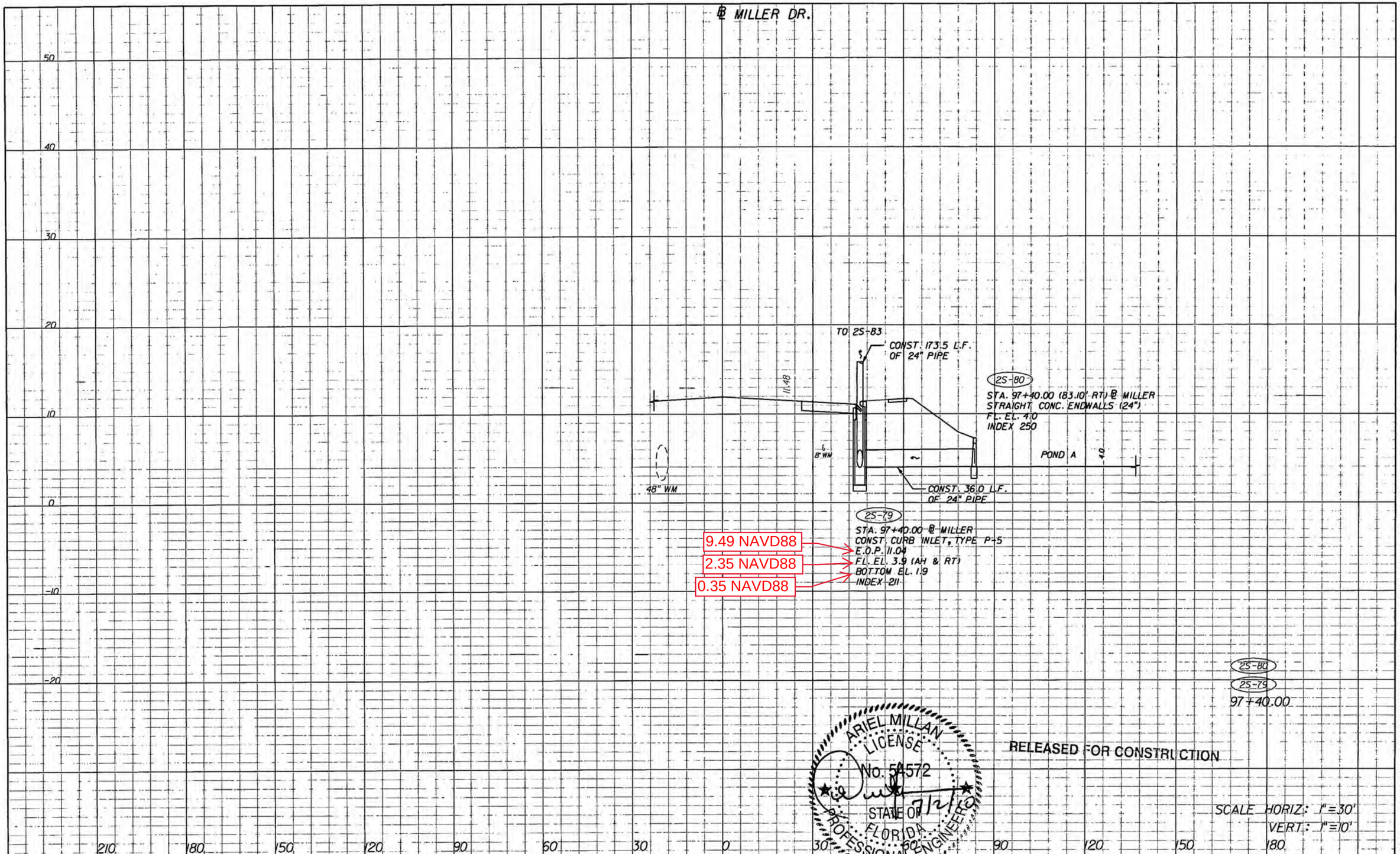
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (53)

SHEET NO. 2-13

$USER$ $DATE$ $TIME$ $FILE$



ARIEL MILLAN
LICENSE
No. 54572
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/2/10

RELEASED FOR CONSTRUCTION

SCALE HORIZ: 1"=30'
VERT: 1"=10'

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bac engineering

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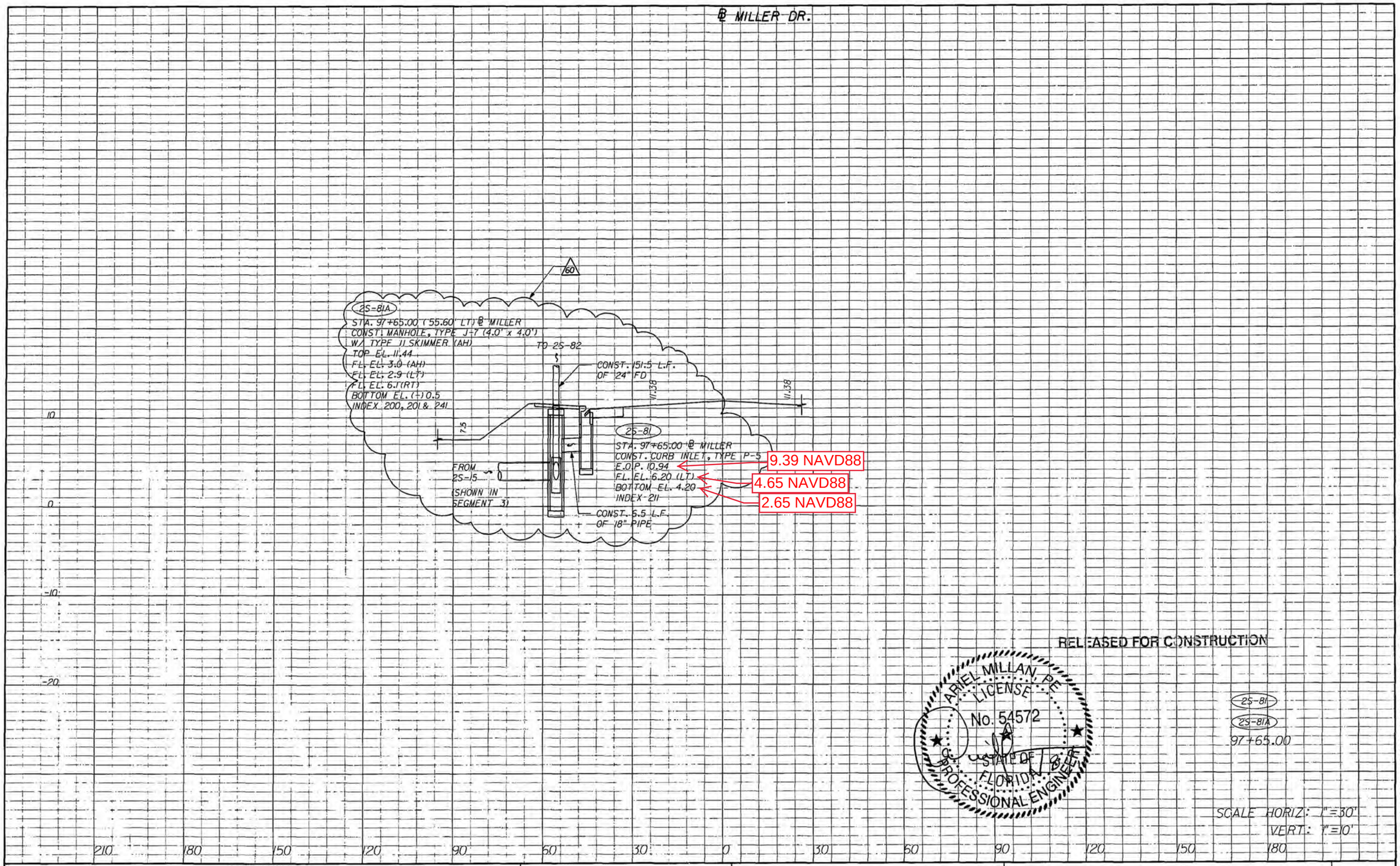
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
2-15



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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
6/22/11	60 STRUCTURE 2S-81A WAS ADDED AND CONNECTED WITH 2S-82. STRUCTURE 2S-81 WAS CONNECTED WITH 2S-81A.		

bec engineering
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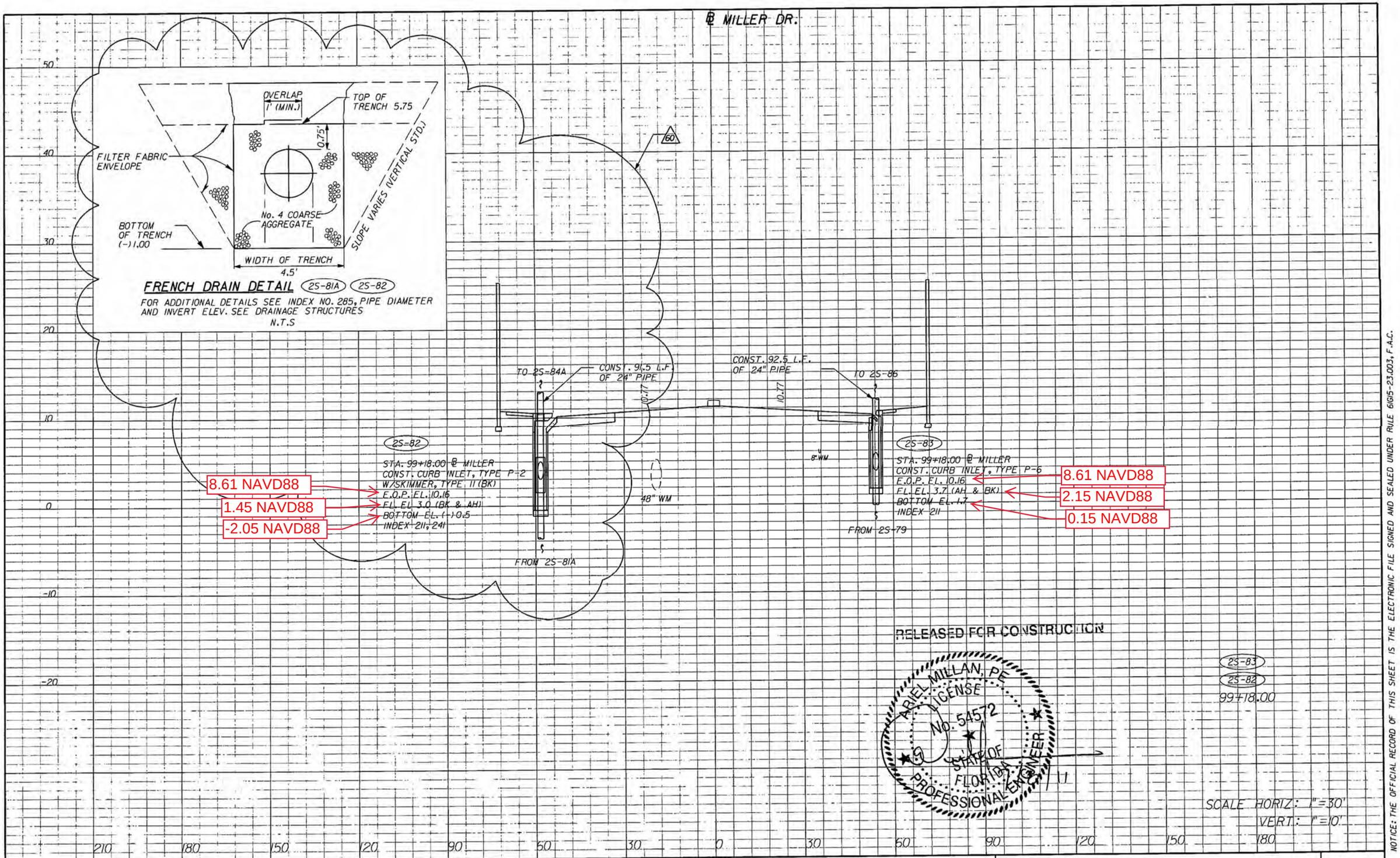
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 2-16



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
6/22/11	60 STRUCTURE 2S-82 WAS CHANGED TO TYPE P-2 AND FRENCH DRAIN DETAIL WAS INCLUDED		

engineering
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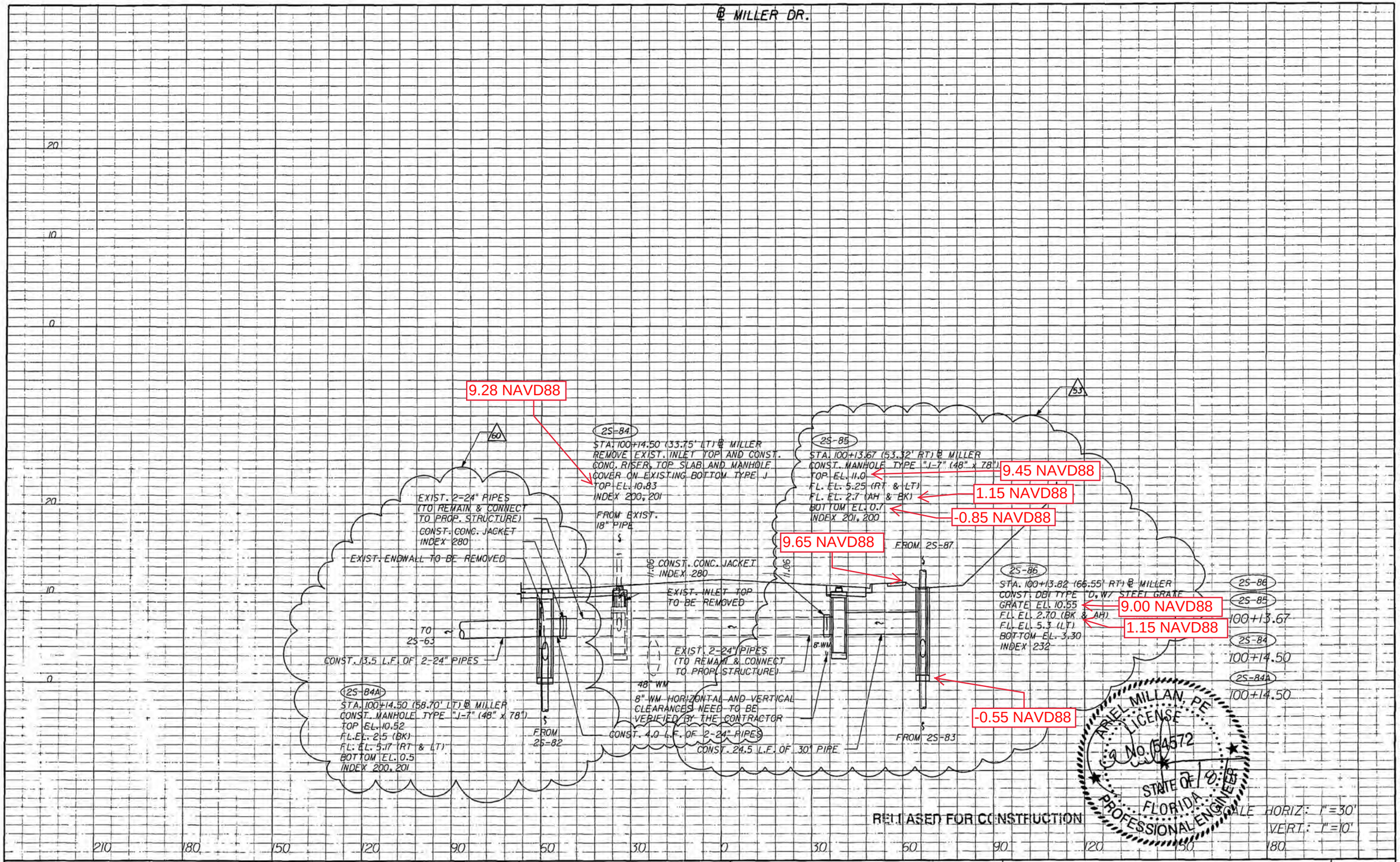
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 2-17



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
3/18/11	53 STRUCTURE 2S-85 WAS RELOCATED, AND CONNECTED BETWEEN STRUCTURES 2S-83 AND 2S-87, THROUGH STRUCTURE 2S-86 WAS CHANGED.	3/18/11	53 LENGTH OF PIPES CHANGED, AND STRUCTURES 2S-87A & 2S-87B WERE ELIMINATED.
		6/22/11	60 STRUCTURE 2S-84A WAS ADDED.

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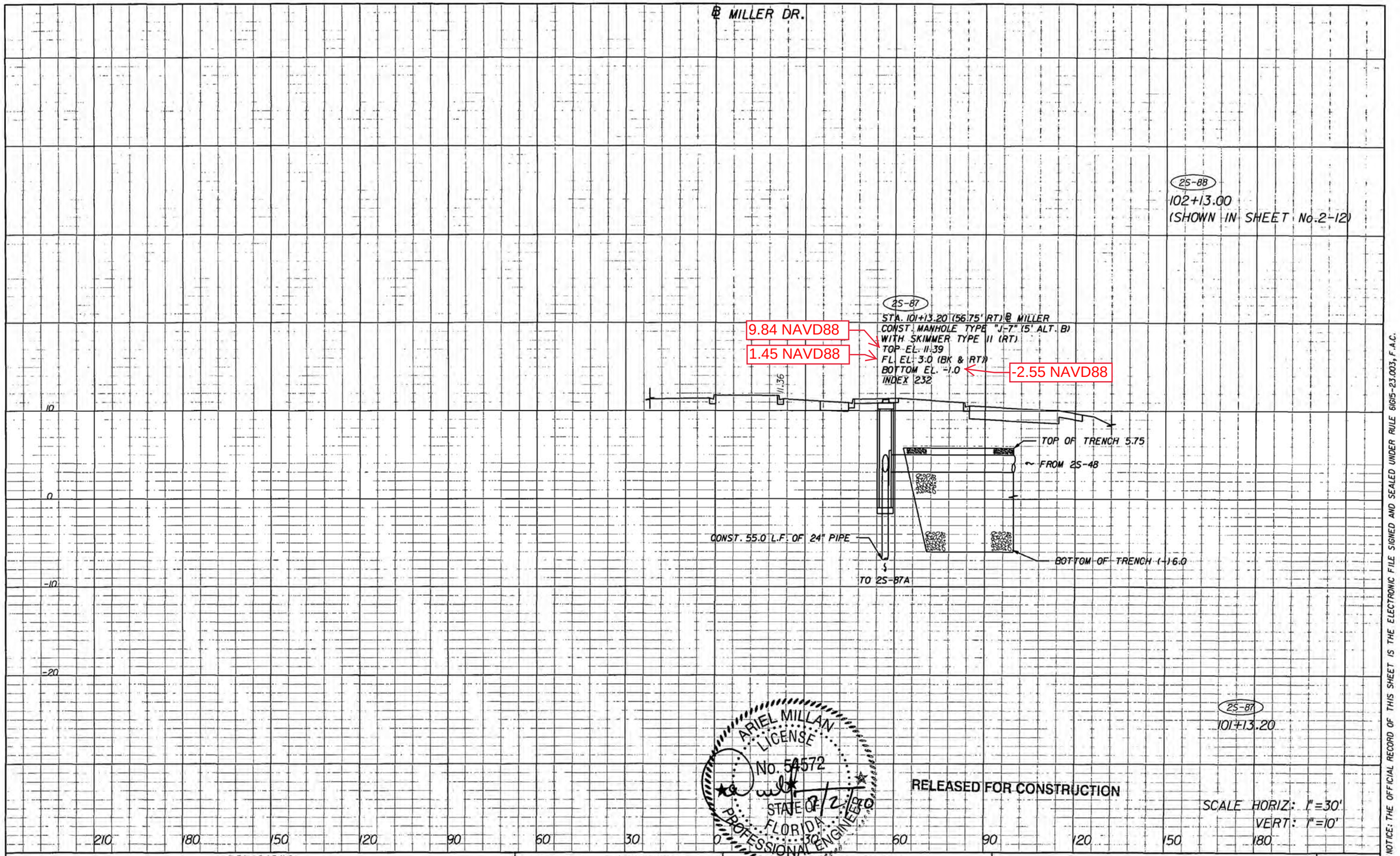
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 2-18



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

engineering

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 2-19

COMPONENTS OF SEGMENT 3 CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS
LANDSCAPE PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINAL AS-BUILTS PLANS

CONTRACT PLANS

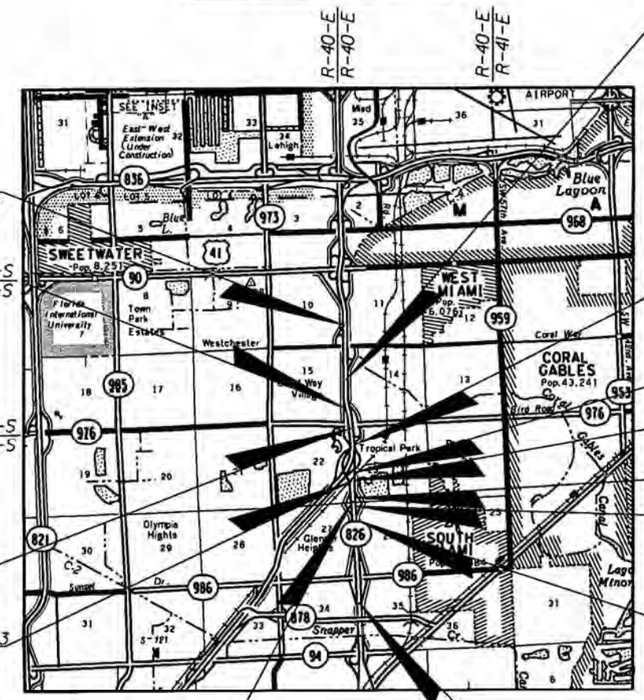
FINANCIAL PROJECT ID 249035-1-52-01
(FEDERAL FUNDS)
MIAMI-DADE COUNTY (87260)
STATE ROAD NO. 826 (PALMETTO EXPRESSWAY)
SECTION 2

SEGMENT 3

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
3-1	KEY SHEET
3-2 , 3-3	DRAINAGE MAP
3-4 , 3-6	TYPICAL SECTIONS
3-7	TYPICAL SECTIONS DETAILS
3-8-3-9	SUMMARY OF DRAINAGE STRUCTURES
3-10	OPTIONAL MATERIALS TABULATION
3-11	PROJECT LAYOUT
3-12	GENERAL NOTES
CTL-1 - CTL-4	PROJECT NETWORK CONTROL
CACD	CURVE AND COORDINATE DATA
3-13-3-18	ROADWAY PLANS
3-19-3-31	PROFILES
3-32-3-33	RAMP TERMINAL DETAILS
3-34-3-49A	DRAINAGE STRUCTURES
3-49B	SLOPE PROTECTION
3-50	MISCELLANEOUS DRAINAGE DETAILS
3-51-3-65	CROSS SECTIONS
3-66	ROADWAY SOIL SURVEY



END PROJECT
STA 295+40.00 ℄ S.R. 826

END BRIDGE No. 8
STA. 462+04.60

BEGIN BRIDGE NO. 8
STA 460+44.18

END CONSTRUCTION SEGMENT 3
STA 421+03.36
℄ S.R. 826 N.B.

BEGIN CONSTRUCTION SEGMENT 3
STA 406+66.77

EQUATION
STA 491+75.09 BACK =
STA 261+00.00 AHEAD

N

0 1 2
MILES

EQUATION
STA. 105+92.37 S.R. 874 BACK =
STA 434+01.57 AHEAD

END BRIDGE NO. 6
STA 424+21.75

BEGIN BRIDGE NO. 6
STA 420+91.75

END BRIDGE NO. 1
STA 406+74.11

BEGIN BRIDGE NO. 1
STA 405+14.36

EQUATION
STA. 125+00.00 BACK =
STA 373+74.18 AHEAD

BEGIN PROJECT
STA 96+00.00
M.P. 1.8048 (NB)

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

ARIEL MILLAN, P.E.
BCC ENGINEERING
7300 NORTH KENDALL DRIVE,
SUITE 400
MIAMI, FL 33156
(305) 670-2350

PLANS PREPARED BY:

bcc engineering
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Fax: (305) 670-2351
Certificate of Authorization No. 7184

Certificate of Authorization No. 7184
Contract No: E-6E59
Vendor Identification No: 65-0540100

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008,
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01-01-08
For Design Standards Modifications click on "Design Standards" at the following web site:
http://www.dot.state.fl.us/rddesign/

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

ARIEL MILLAN
LICENSE No. 54572
STATE OF FLORIDA
PROFESSIONAL ENGINEER
1/3/10

PROJECT LENGTH IS BASED ON ℄ OF CONSTRUCTION SR 826 NB

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	17,490.74	3.313
BRIDGES	650.17	0.123
NET LENGTH OF PROJECT	18,140.91	3.436
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	18,140.91	3.436

FDOT PROJECT MANAGER: JASON CHANG, P.E.

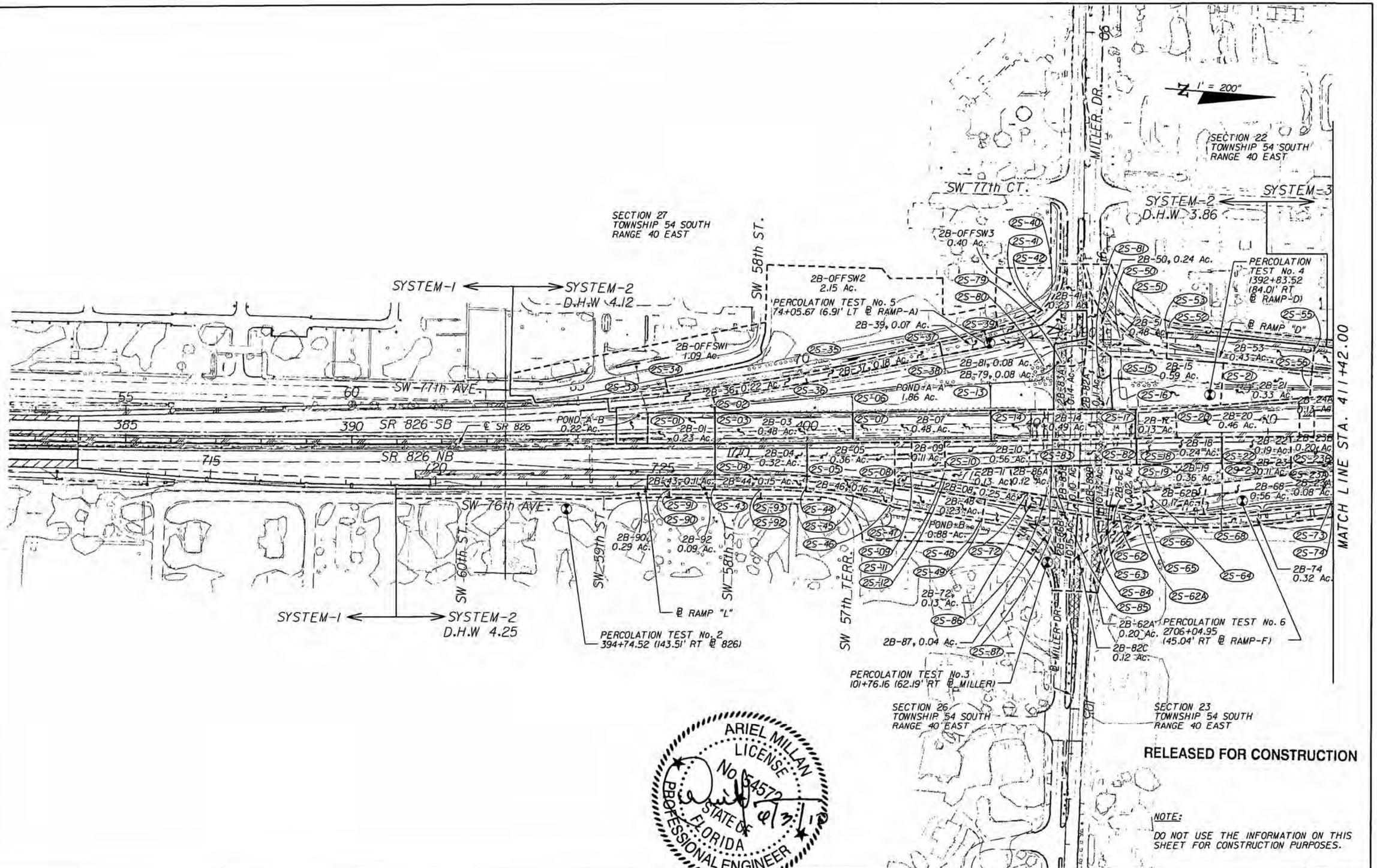
RELEASED FOR CONSTRUCTION

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: ARIEL MILLAN, P.E.

P.E. NO.: 54572

FISCAL YEAR	SHEET NO.
08	3-1



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ARIEL MILLAN
LICENSE
No 54572
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/10

NOTE:

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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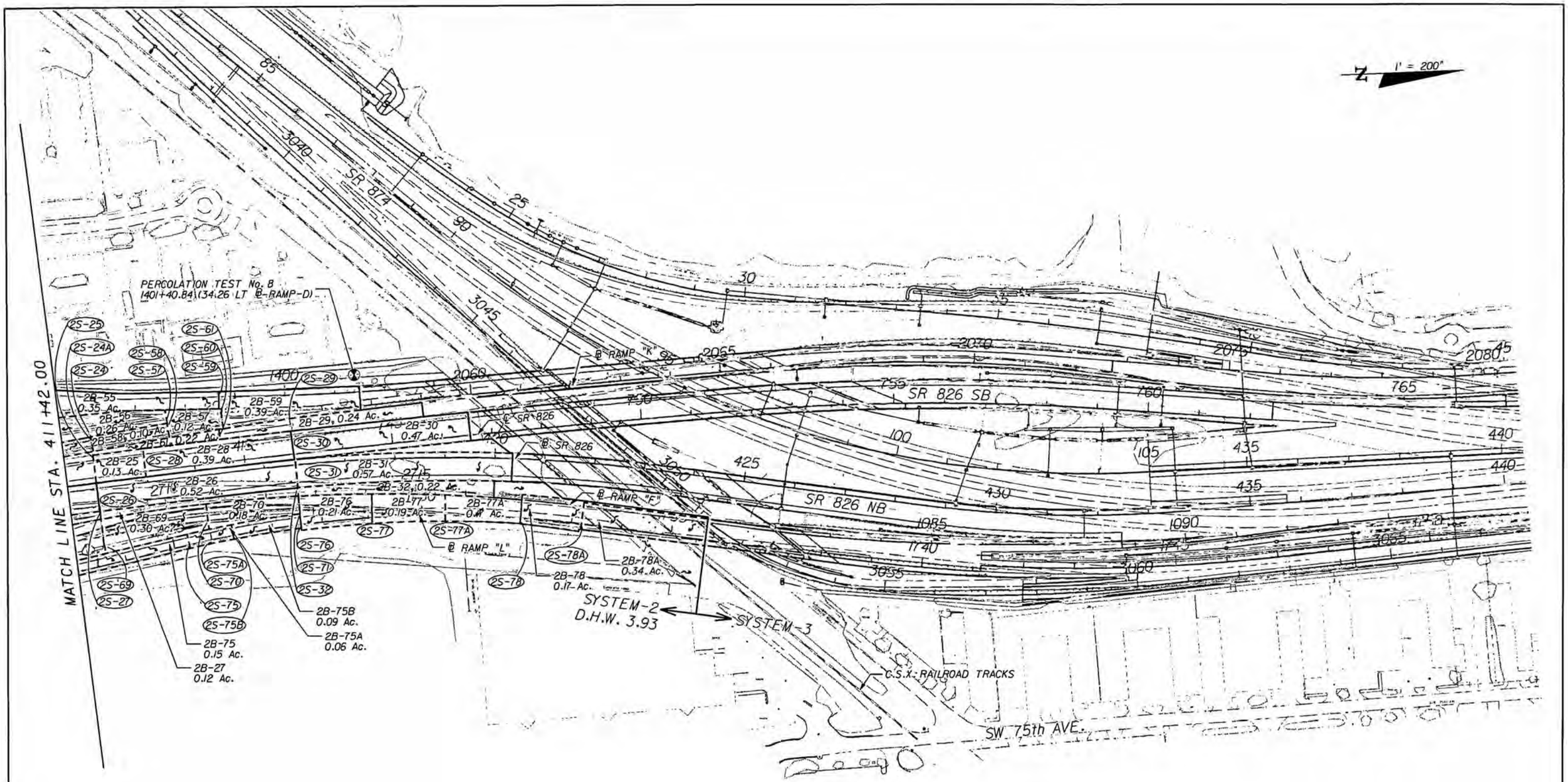
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE MAP

PAGE NO. 3-2



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STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/10

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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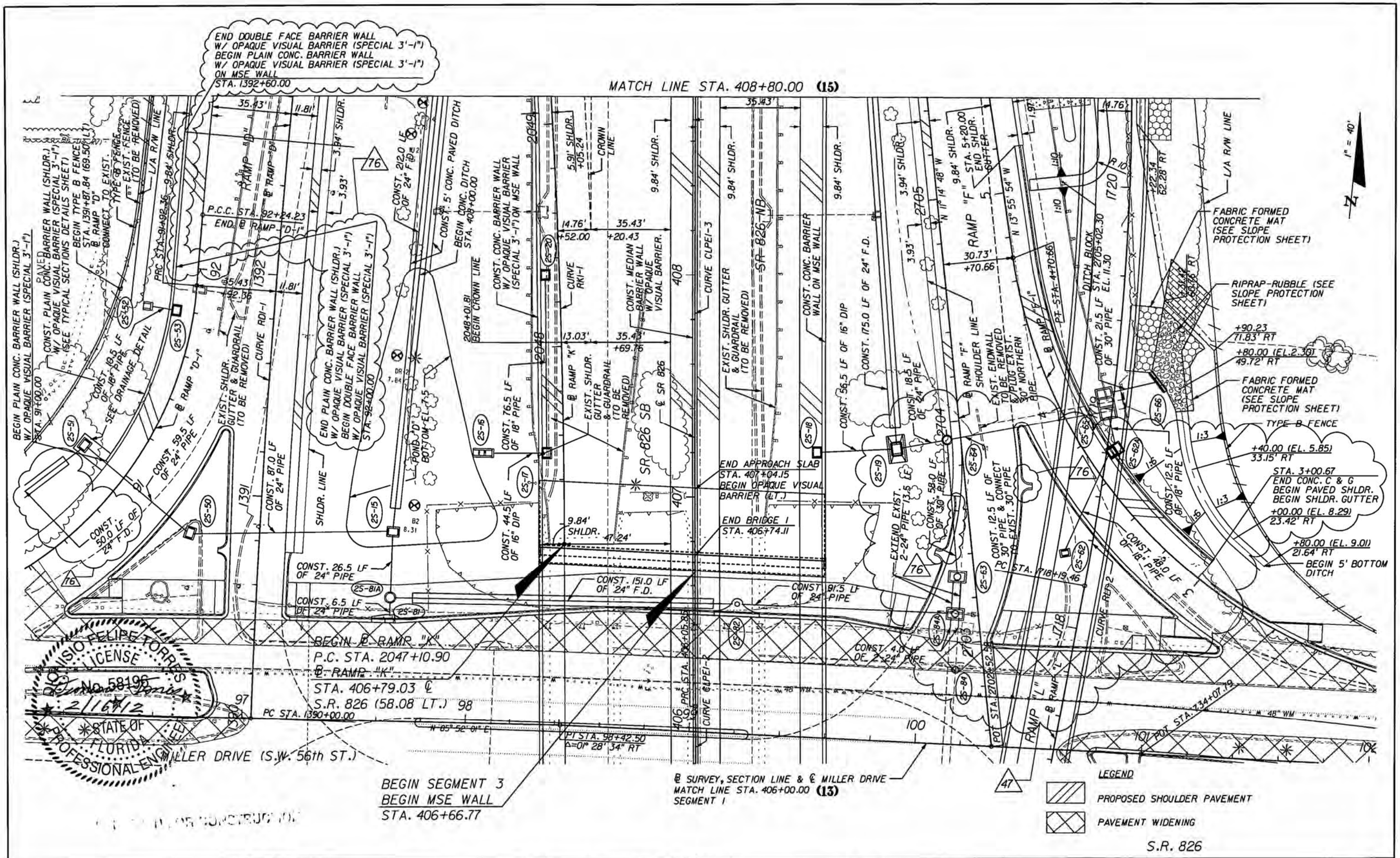
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE MAP

PAGE NO. 3-3

jmillan 5/25/2010 3:32:22 PM \\sqlserver\cadd\249035\5201\segment 3\drainage\drmprd02.dgn



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/3/10	47 CHANGED RAMP "F" CONFIGURATION AT S.W. 56th (MILLER DRIVE)		
02/16/12	76 UPDATED BARRIER WALL LIMITS & 24" FD (25-51). MODIFIED CURB & GUTTER ADDED FLUMES ALONG RAMP F		

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STATE OF FLORIDA
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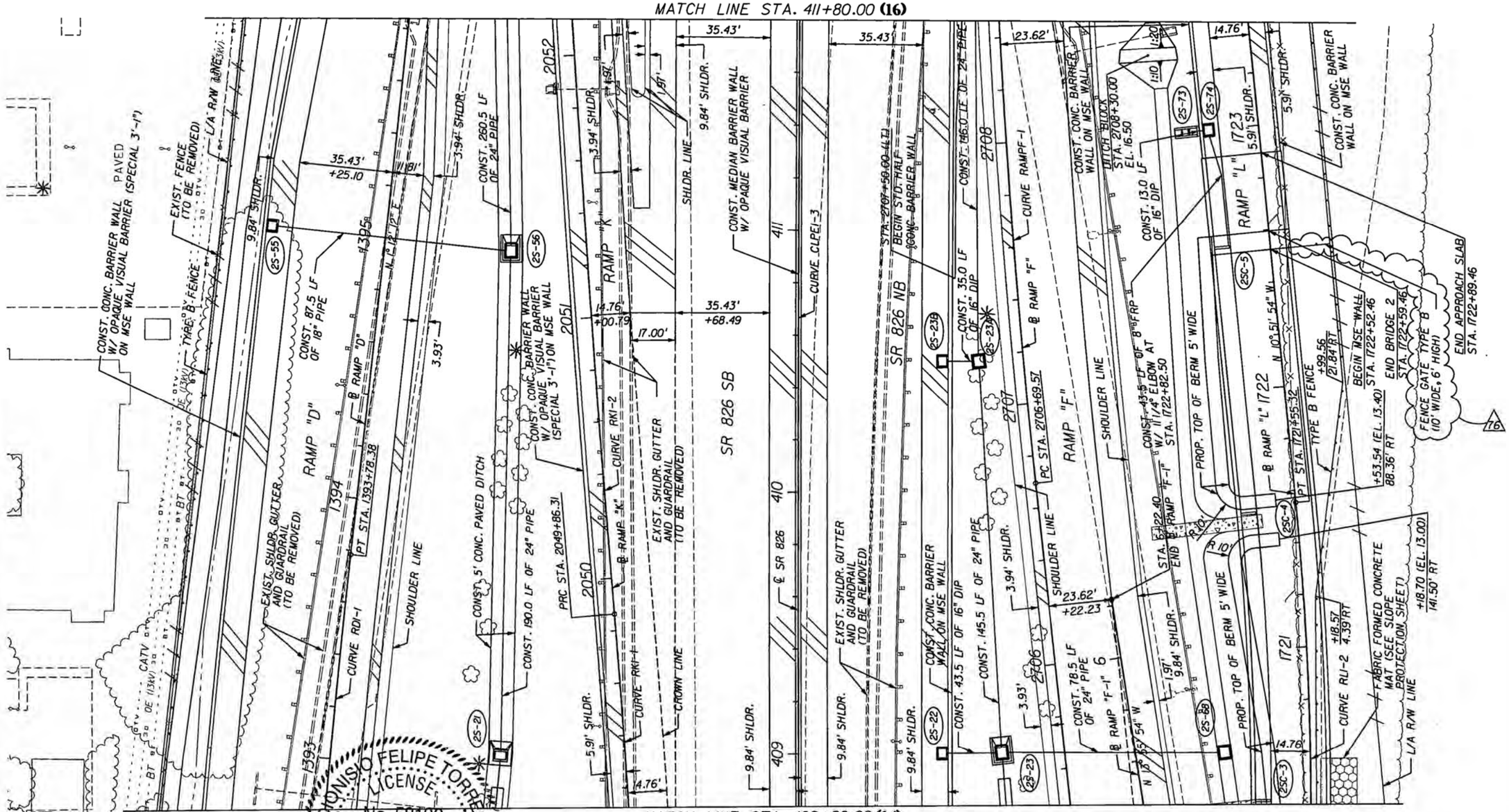
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

$USER$ $DATE$ $TIME$ $FILE$

ROADWAY PLANS (14)

SHEET NO. 3-13

MATCH LINE STA. 411+80.00 (16)



MATCH LINE STA. 408+80.00 (14)

DIONISIO FELIPE TORRES LICENSE No. 58196 STATE OF FLORIDA PROFESSIONAL ENGINEER 2/16/12

RELEASED FOR CONSTRUCTION

LEGEND

PROPOSED SHOULDER PAVEMENT

S.R. 826

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2/16/12	16 ADDED FENCE GATE		

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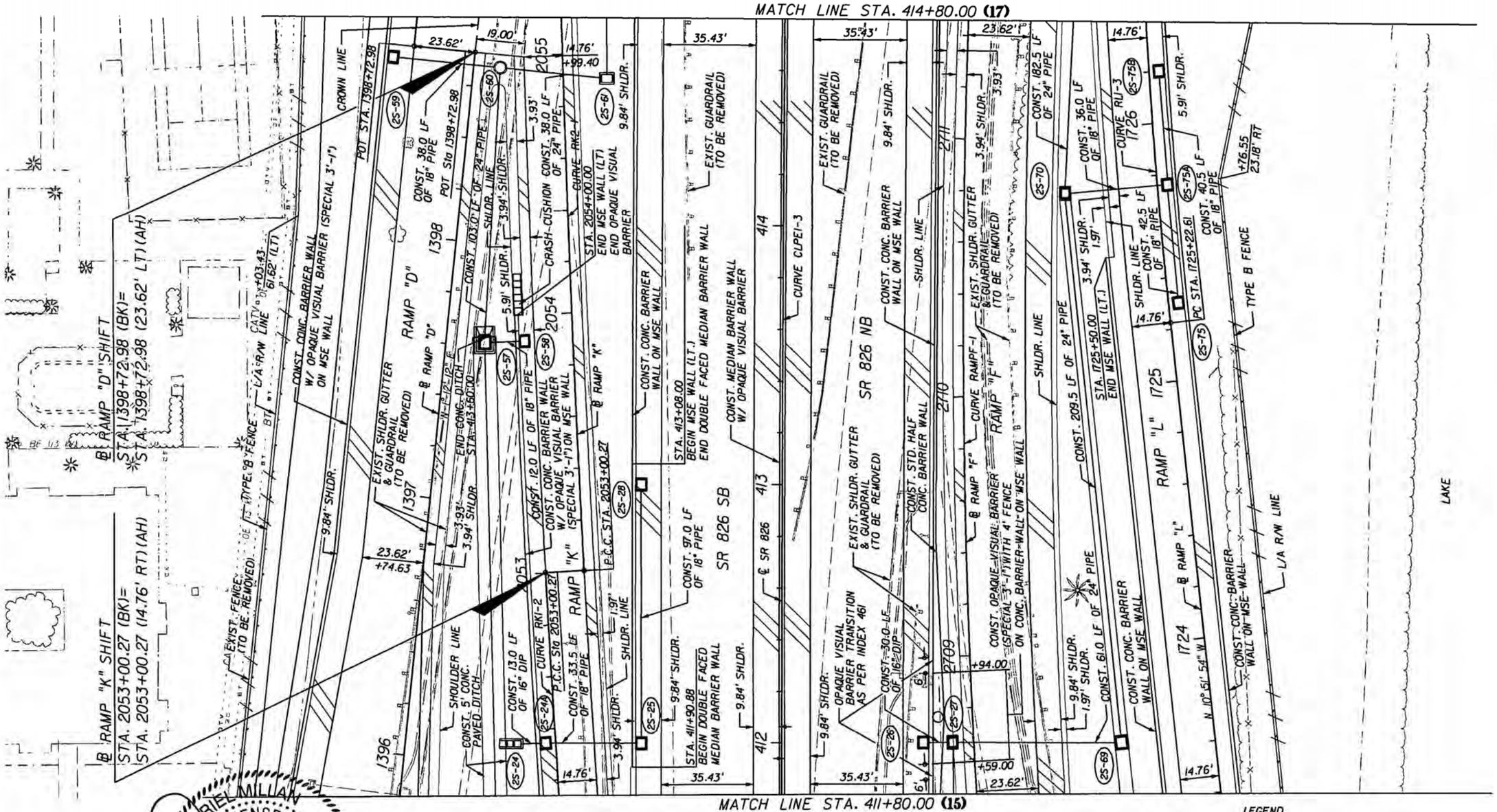
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

$USER$ $DATE$ $TIME$ $FILE$

ROADWAY PLANS (15)

SHEET NO. 3-14



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ARIEL MILLAN LICENSE No. 54572 STATE OF FLORIDA PROFESSIONAL ENGINEER 6/3/10

DATE	DESCRIPTION	DATE	DESCRIPTION

REVISIONS

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (16)

SHEET NO. 3-15

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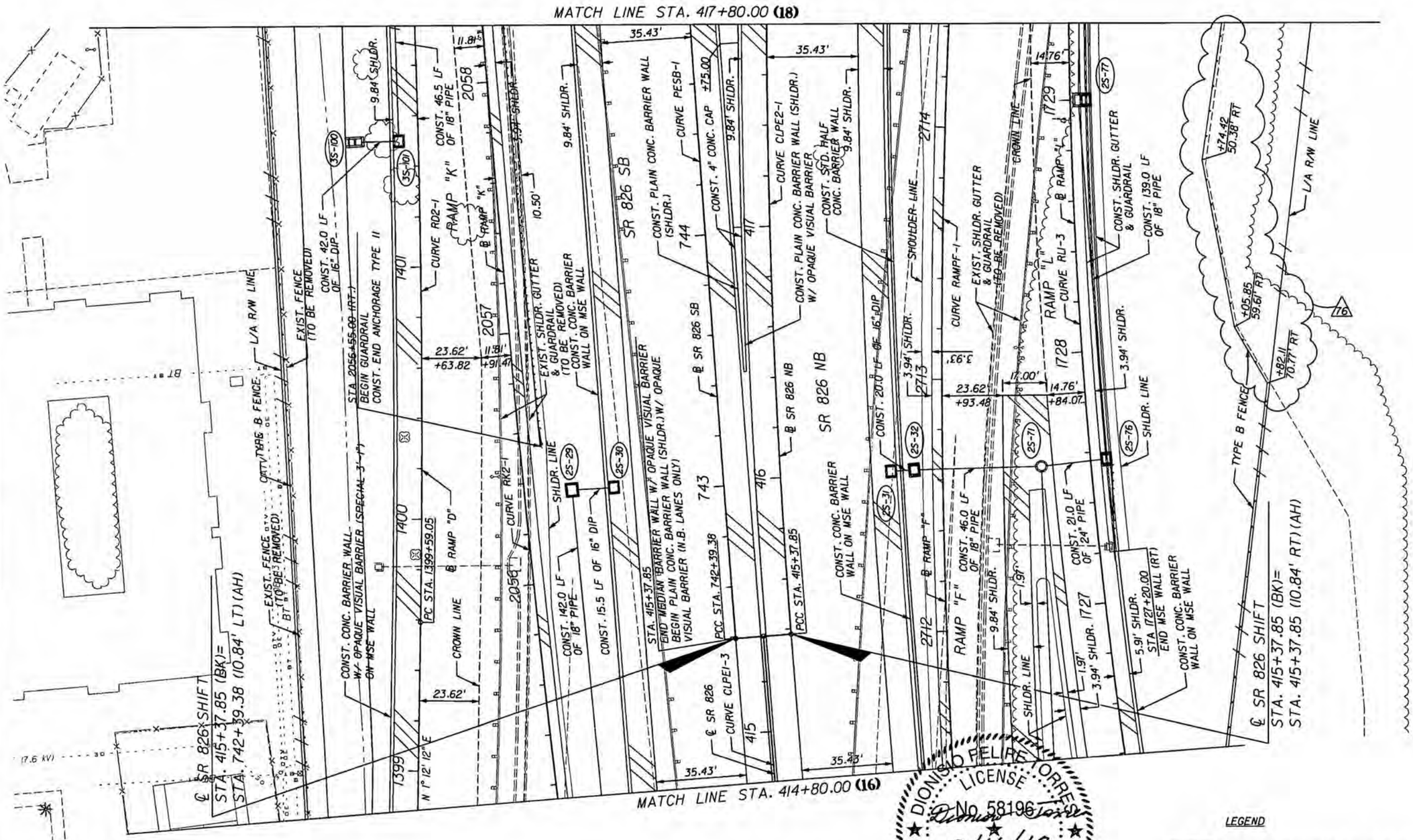

LEGEND

PROPOSED SHOULDER PAVEMENT

S.R. 826

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2/16/12	16 UPDATED FENCE ALIGNMENT		

bc engineering

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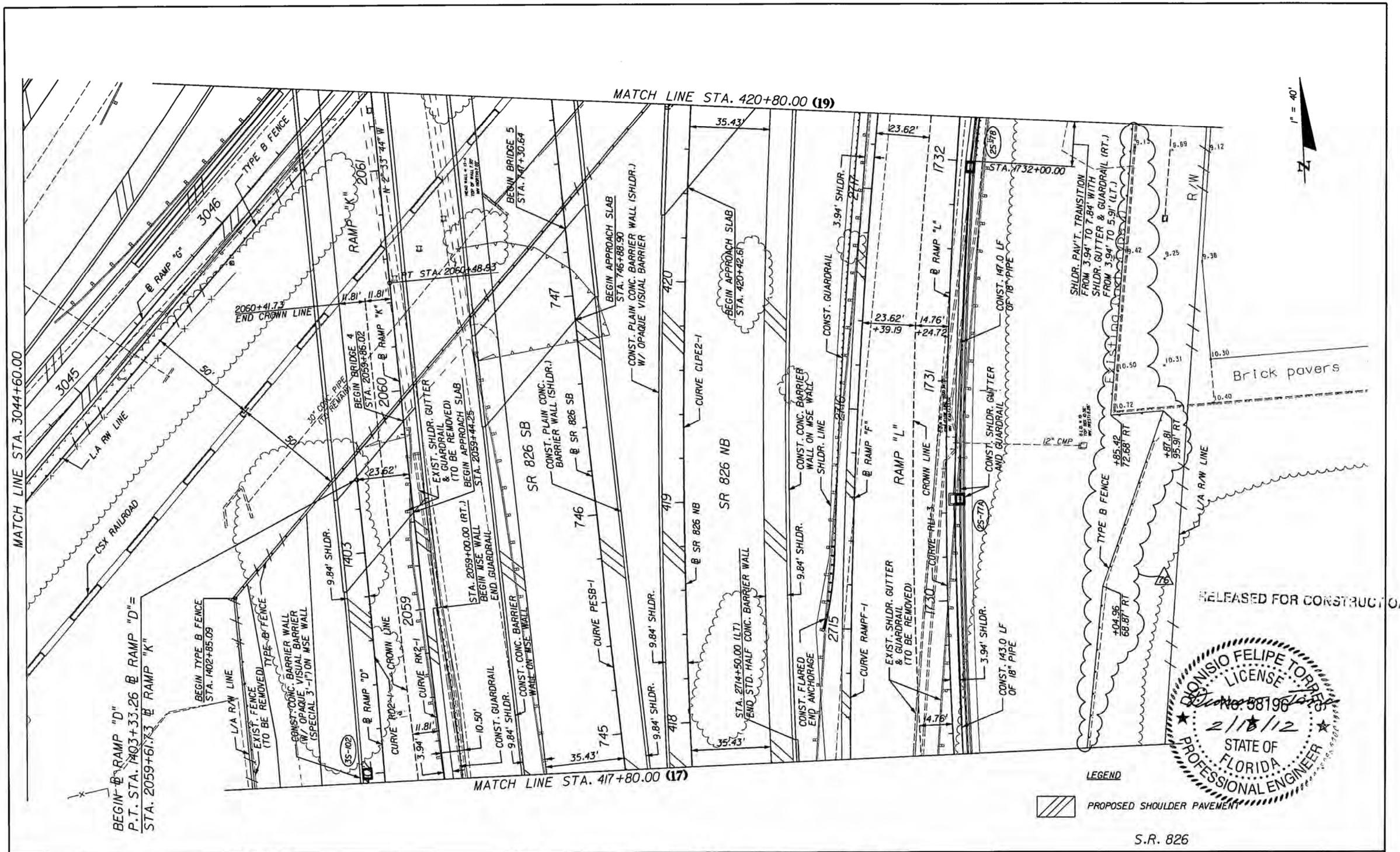
826	MIAMI-DADE	249035-1-52-01

$USER$ $DATE$ $TIME$ $FILE$

ROADWAY PLANS (17)

SHEET NO. 3-16



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2/16/12	76 UPDATED FENCE ALIGNMENT		

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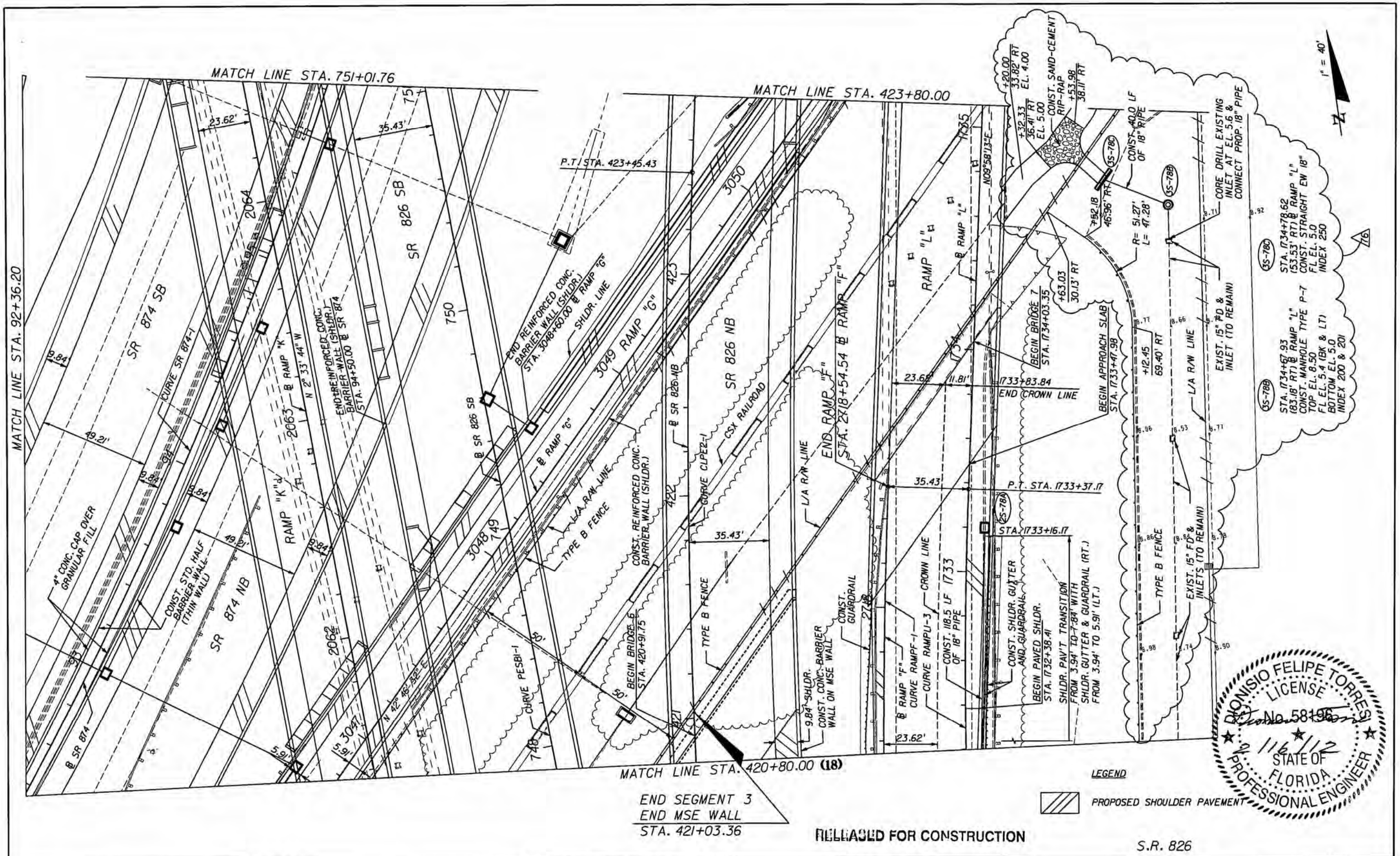
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (18)

SHEET NO. 3-17

$USER$ $DATE$ $TIME$ $FILE$



RELEASED FOR CONSTRUCTION

S.R. 826

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2/16/12	76 UPDATED FENCE ALIGNMENT. ADDED STRUCTURES 3S-78B & 3S-78C AND REGRADE SWALE TO REESTABLISH HISTORICAL DRAINAGE PATTERN.		

engineering

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Certificate of Authorization No. 7184

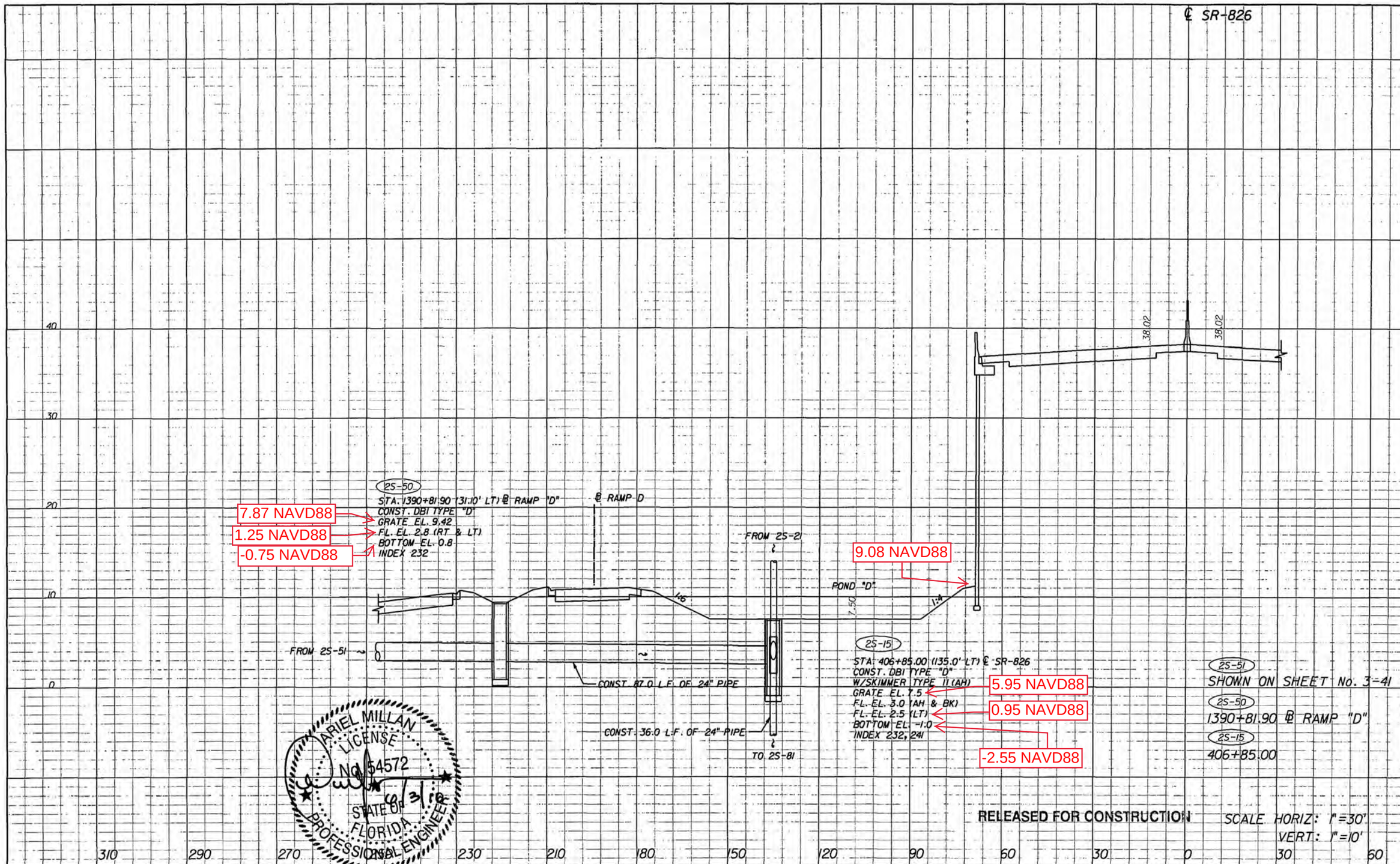
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (19)

SHEET NO. 3-18

$USER$ $DATE$ $TIME$ $FILE$



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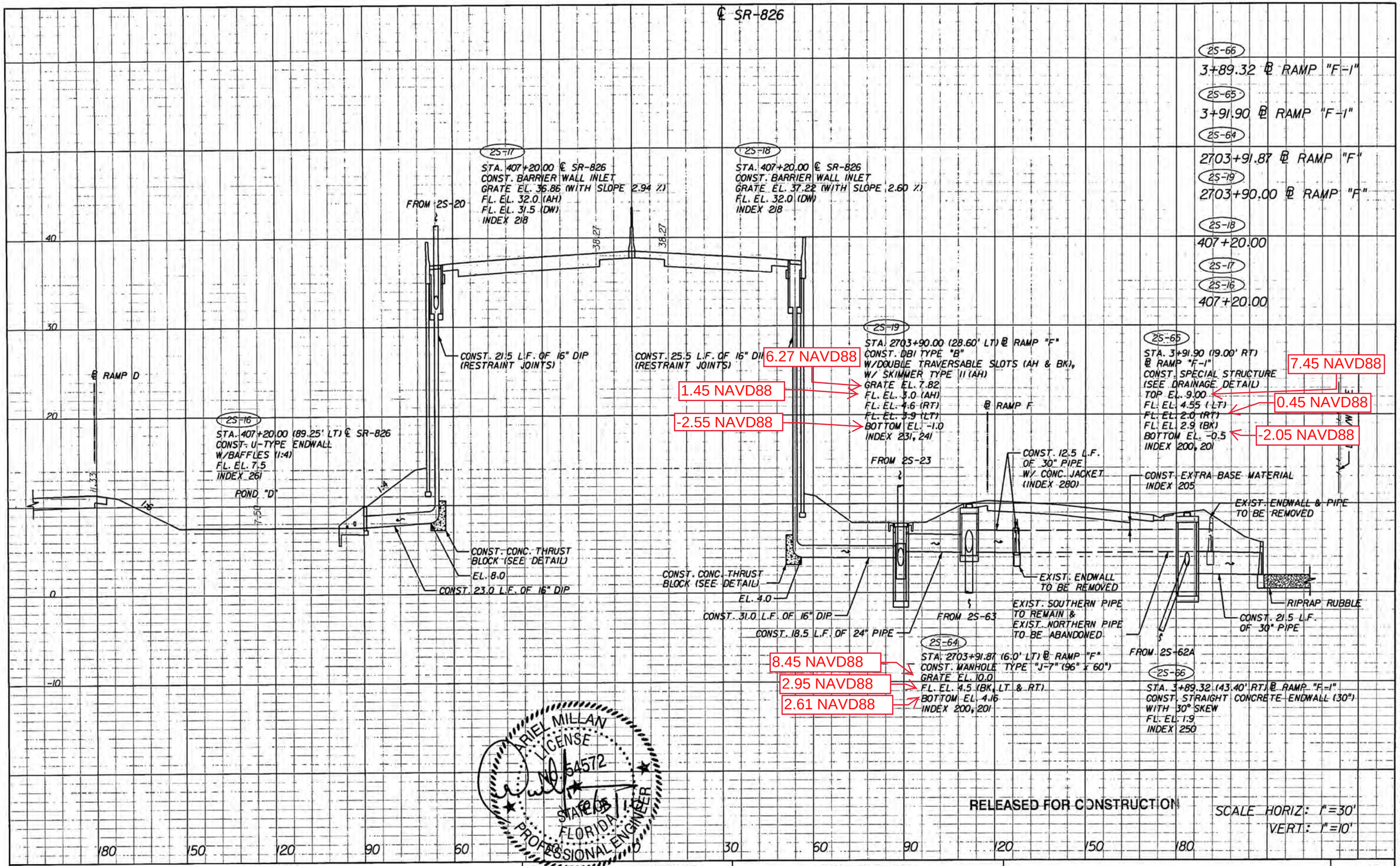
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-34



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SCALE HORIZ: 1"=30'
VERT: 1"=10'

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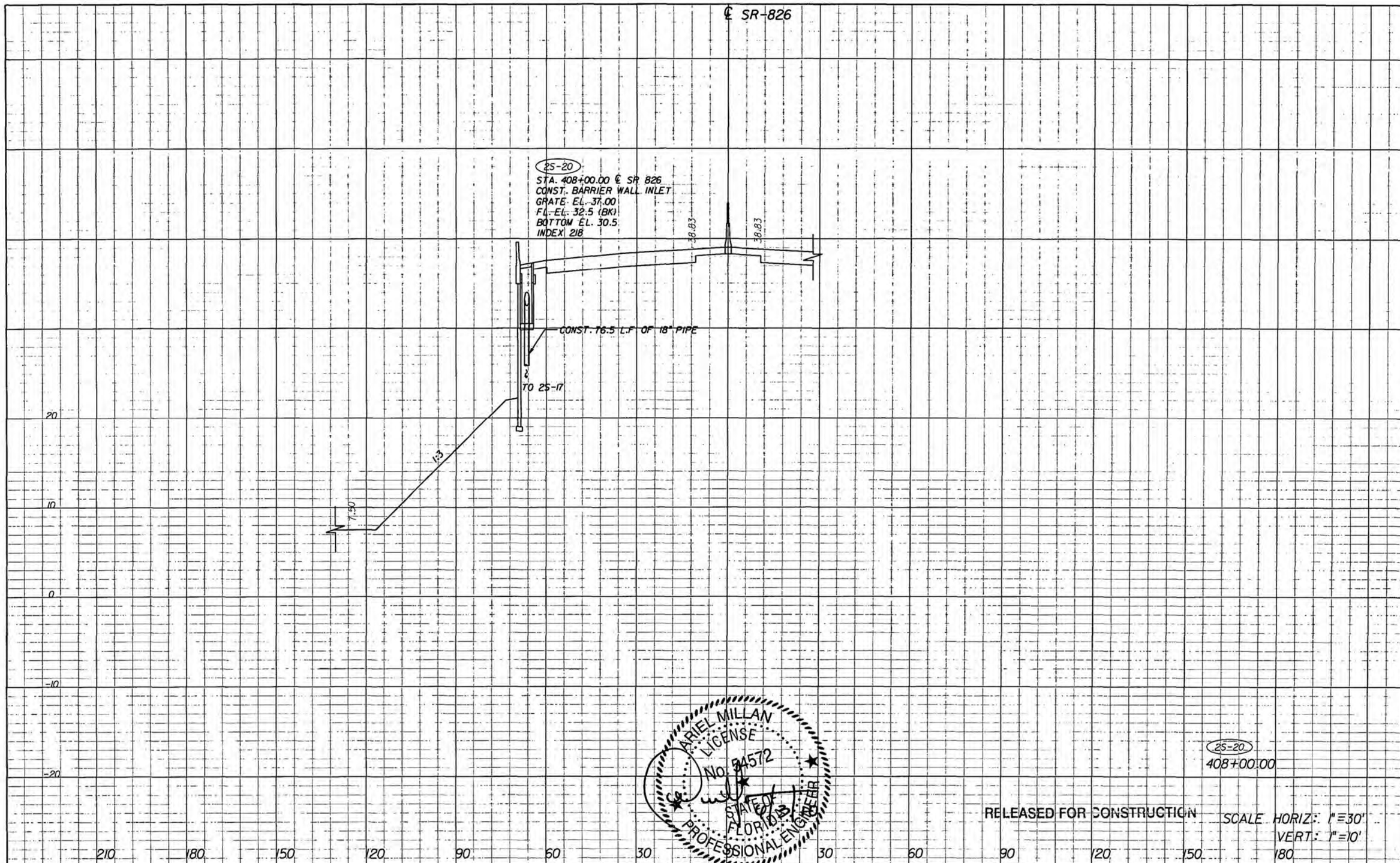
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-35



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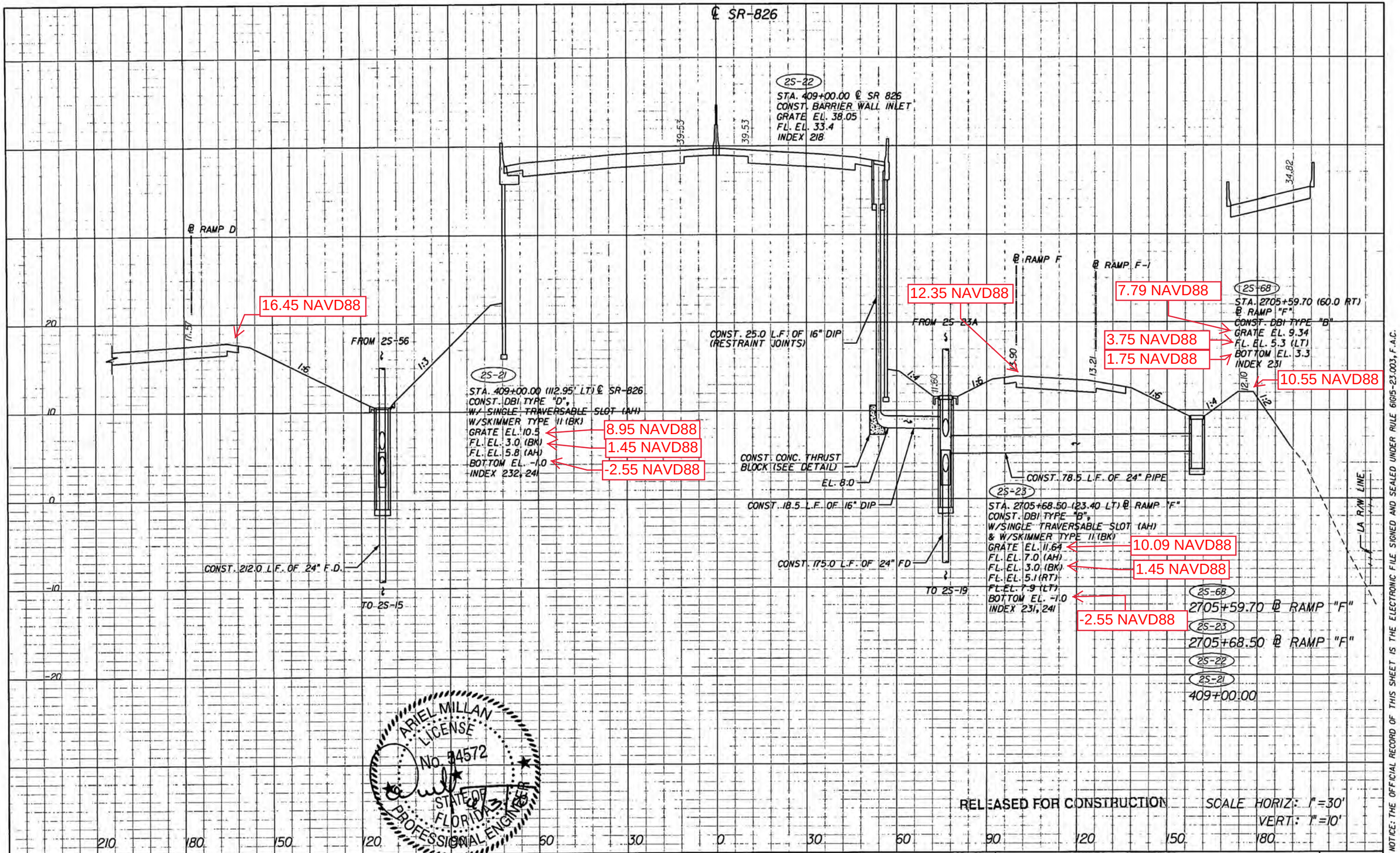
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
3-36



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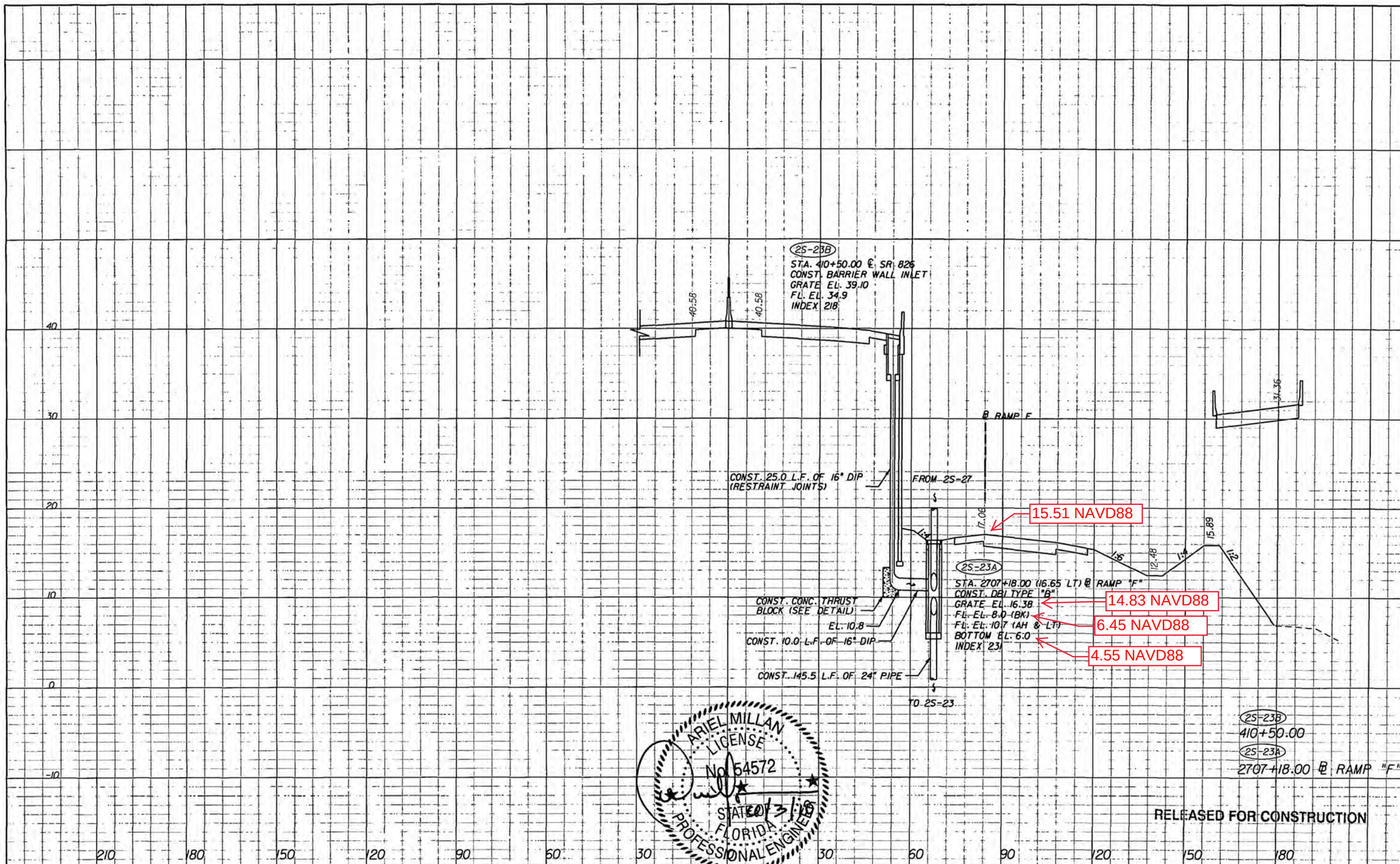
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-37



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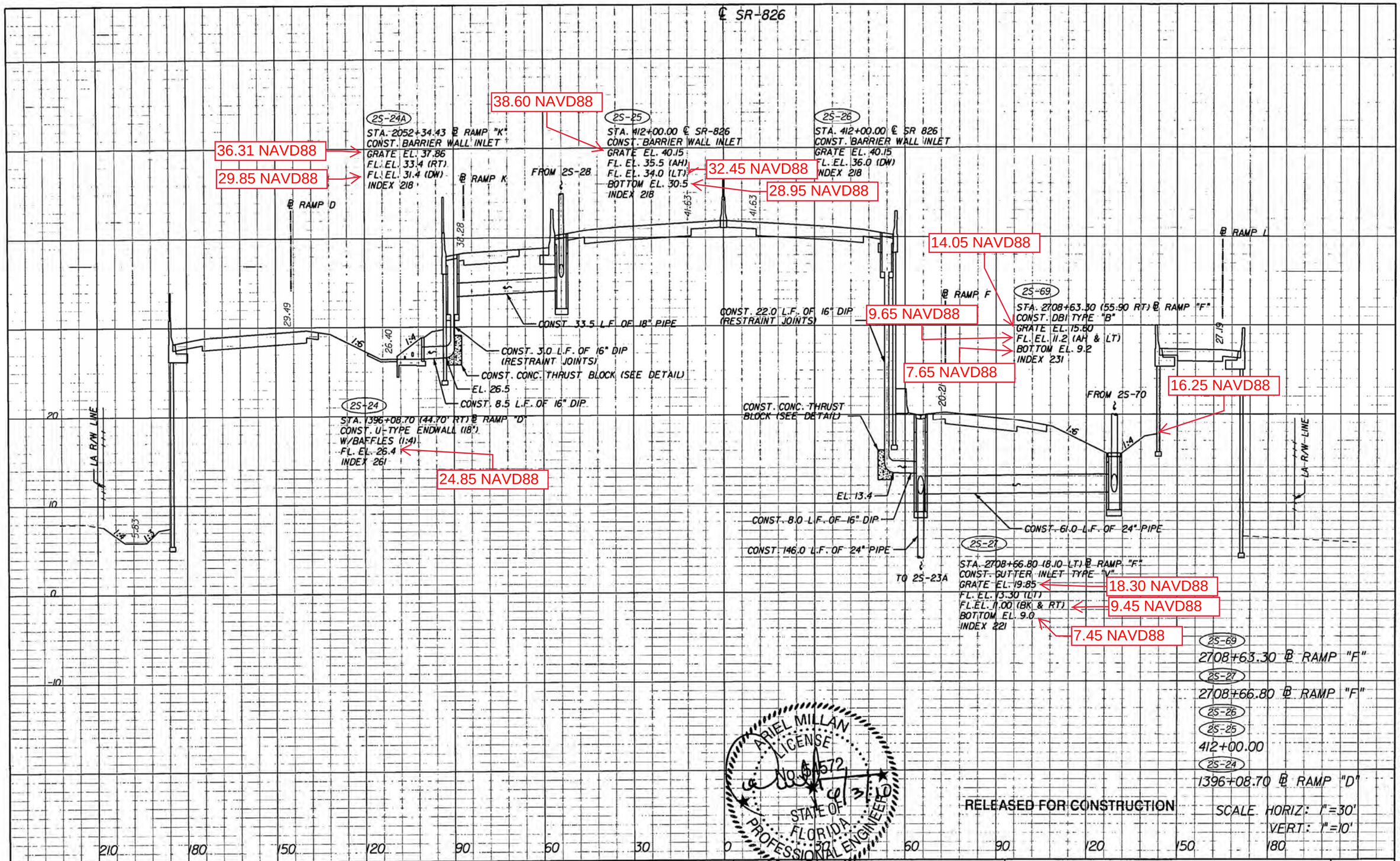
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-37A



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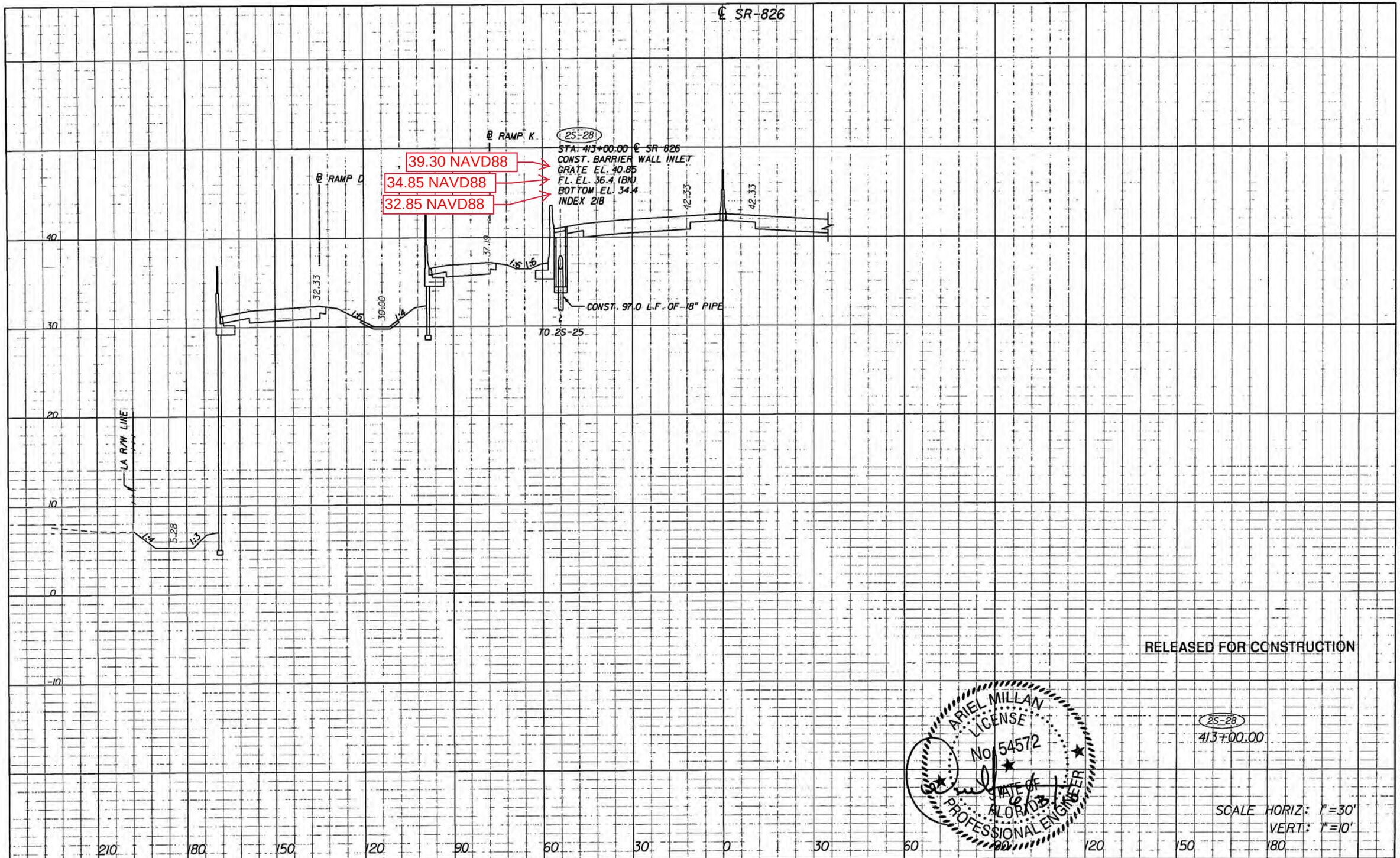
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-38



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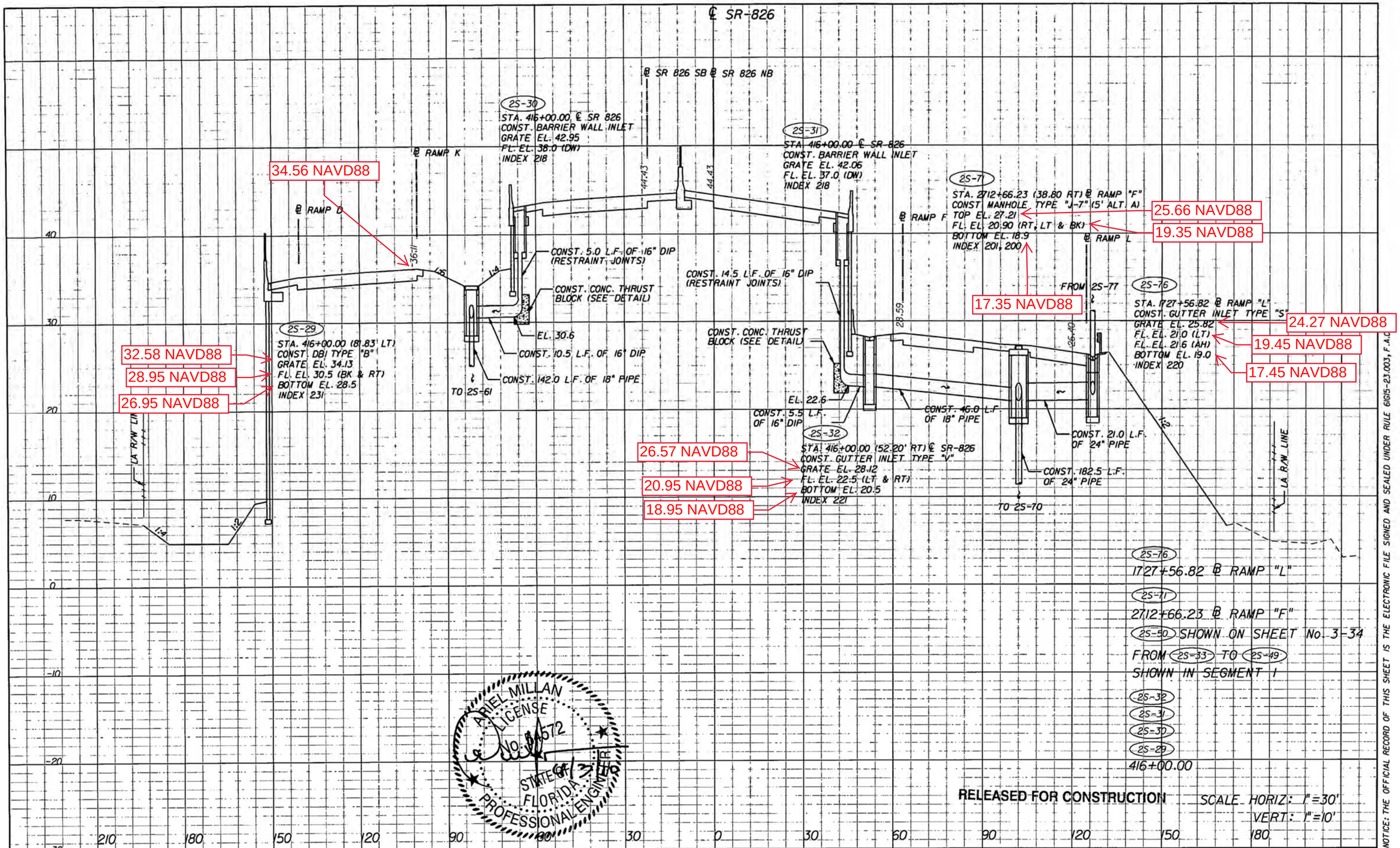
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-39



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-40

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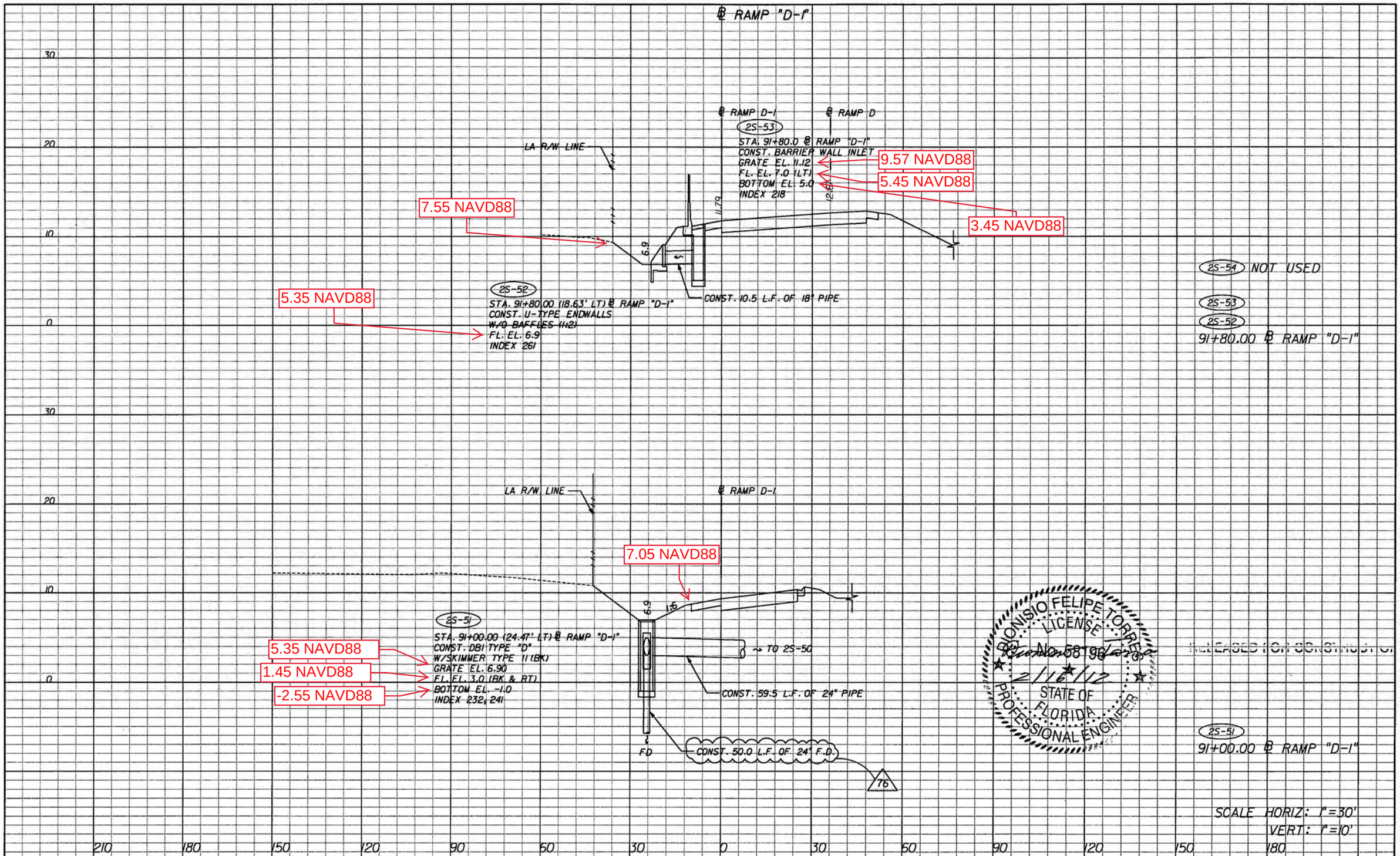

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02/16/12	76 UPDATED 24" FD		

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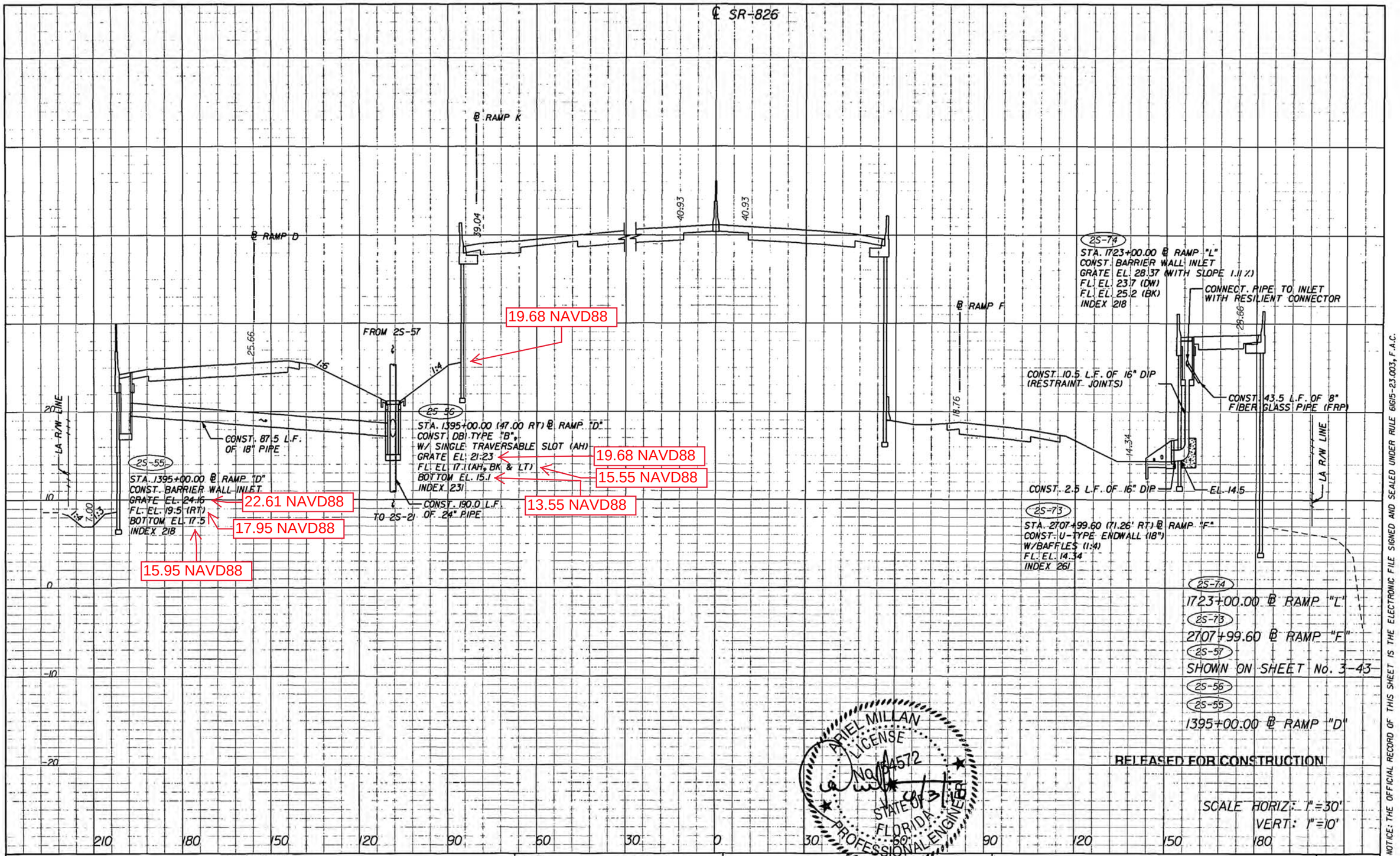
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-41



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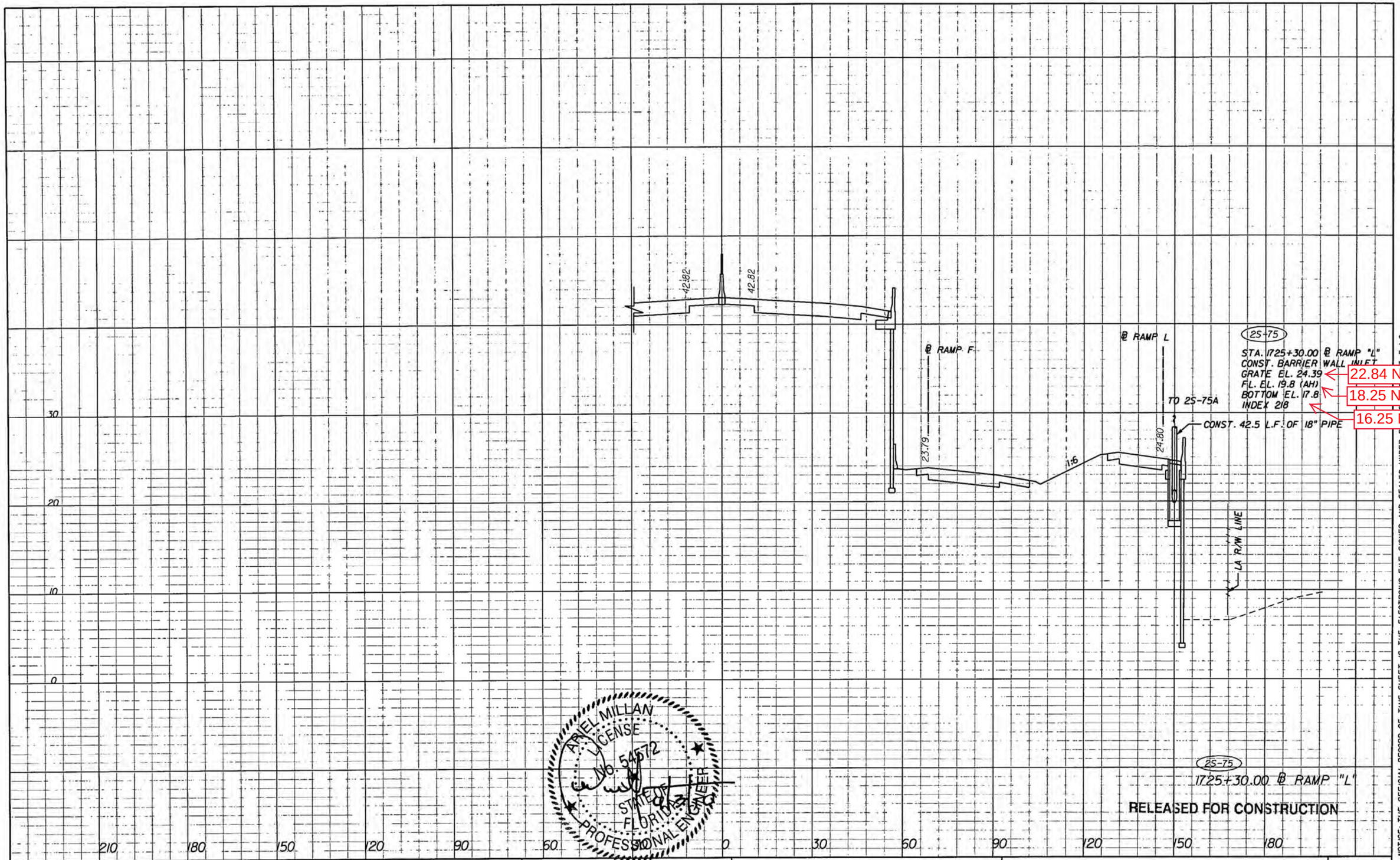
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-42



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-42A

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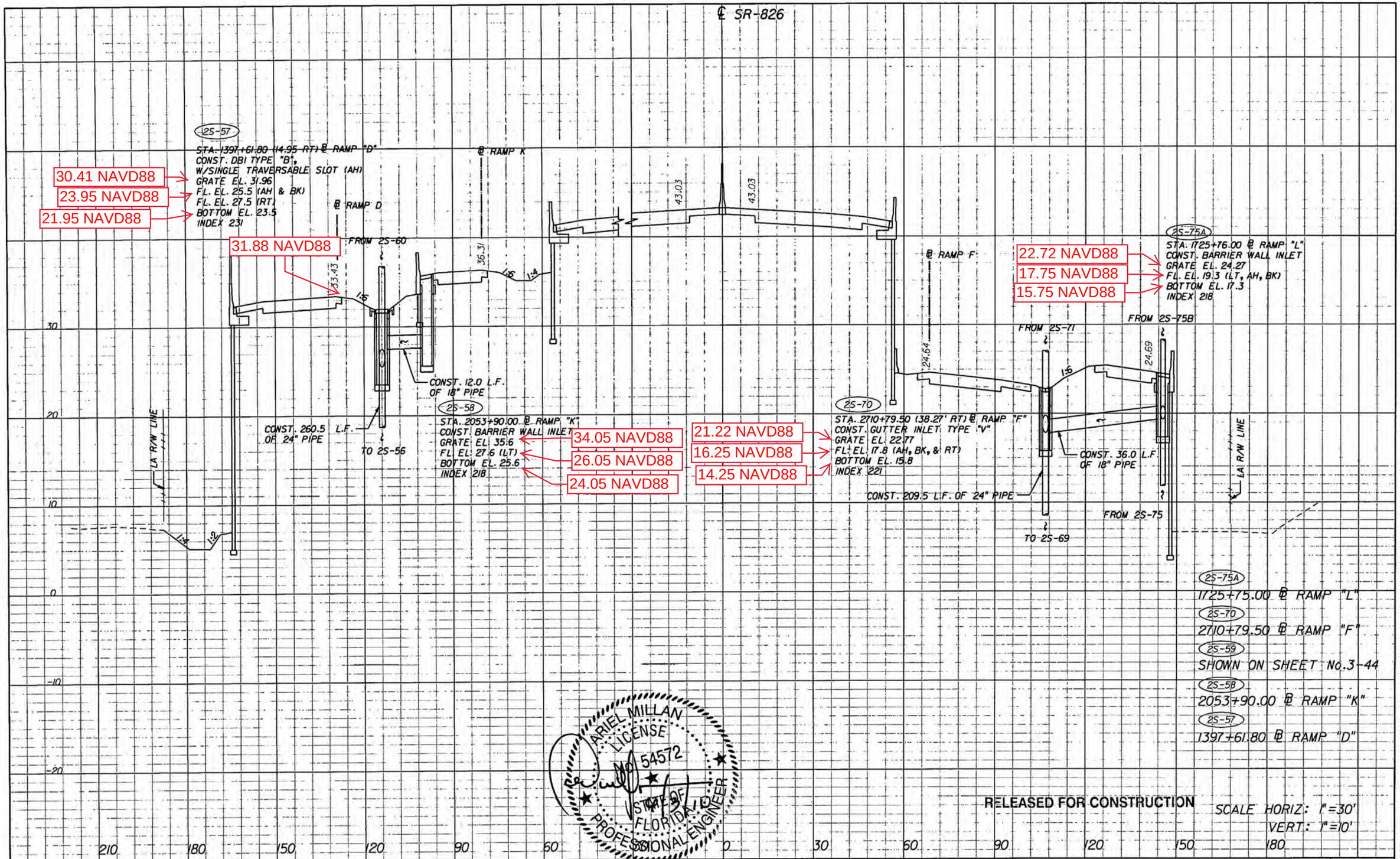

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
3-43

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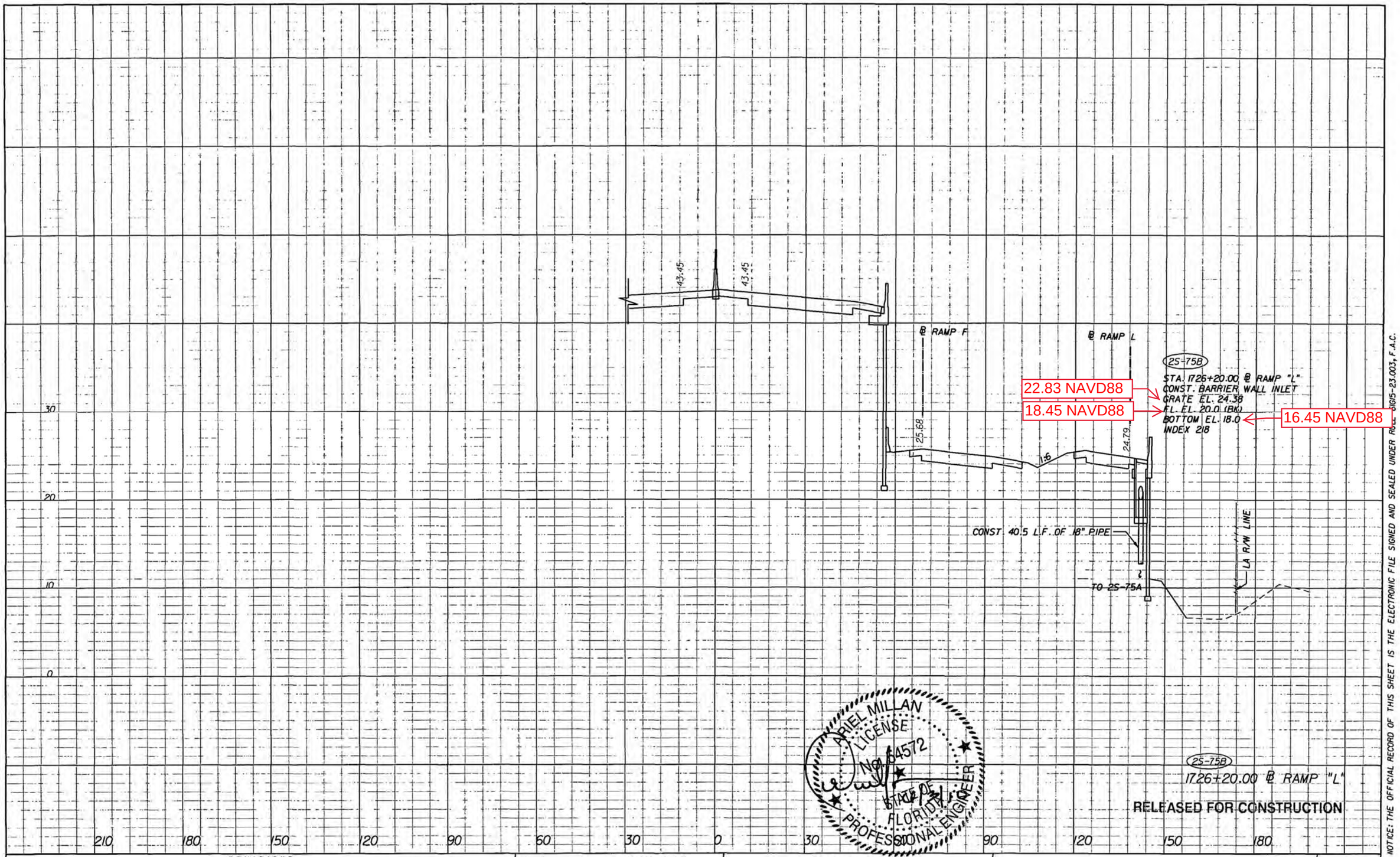

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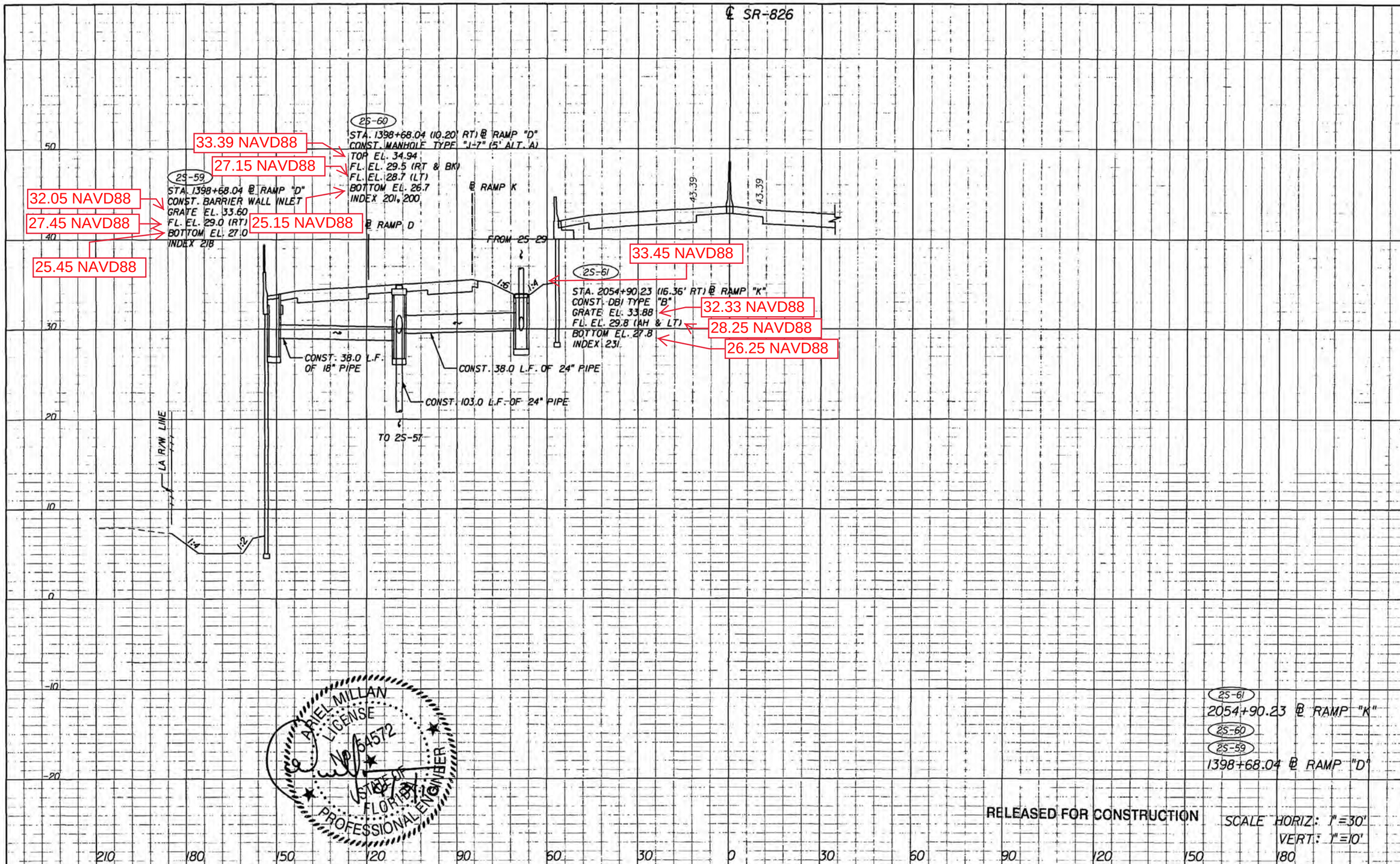
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-43A



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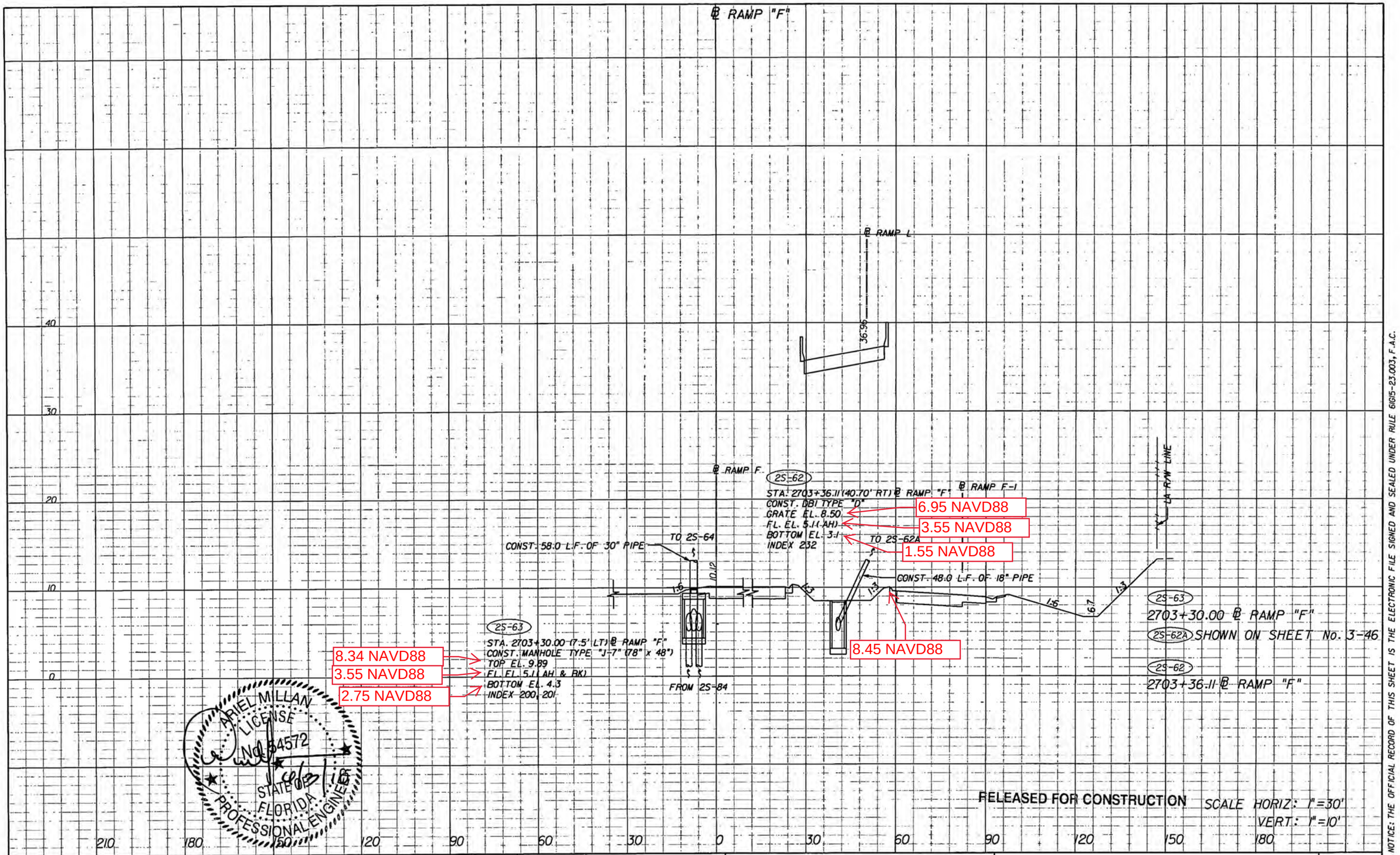
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-44



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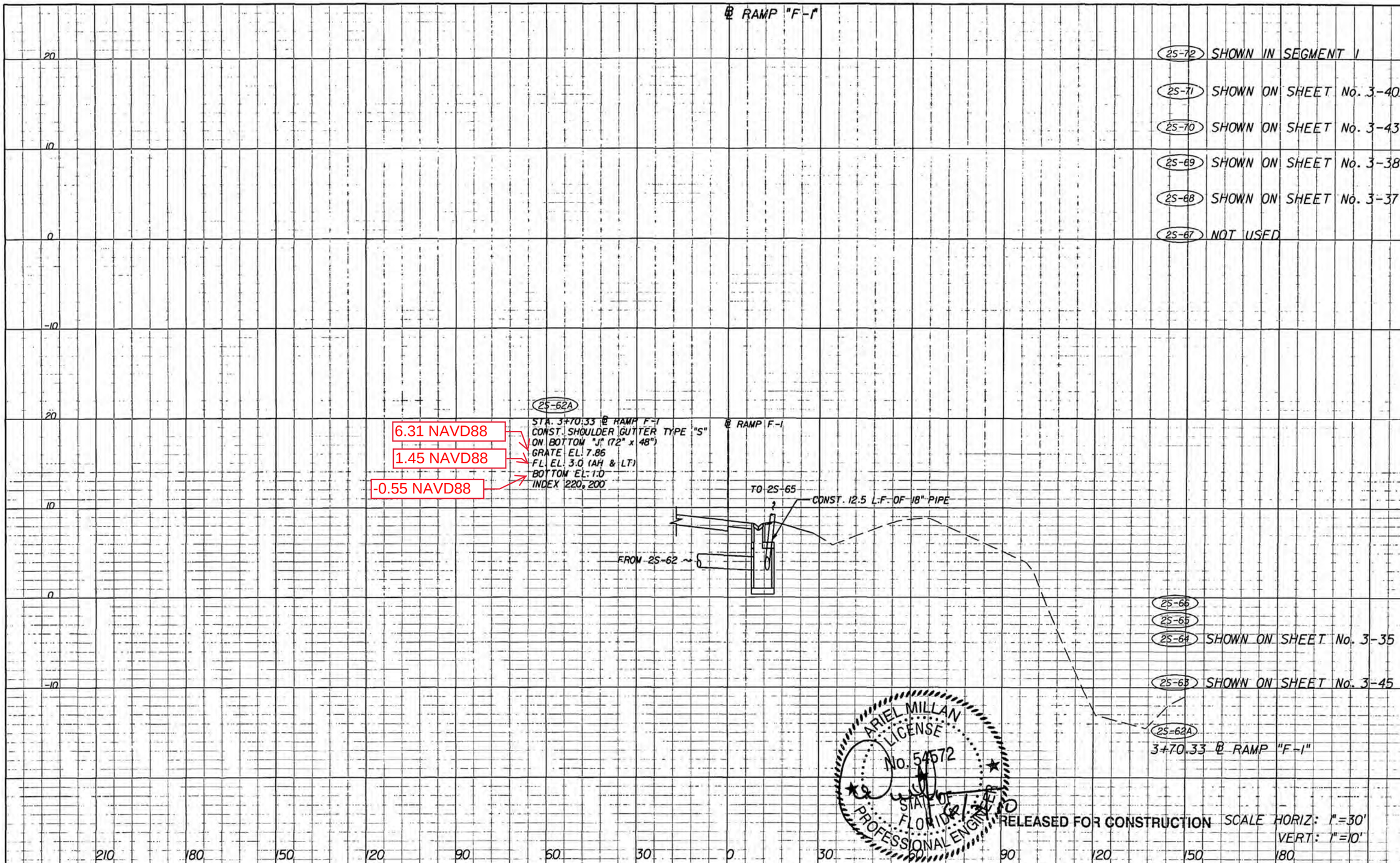
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-45



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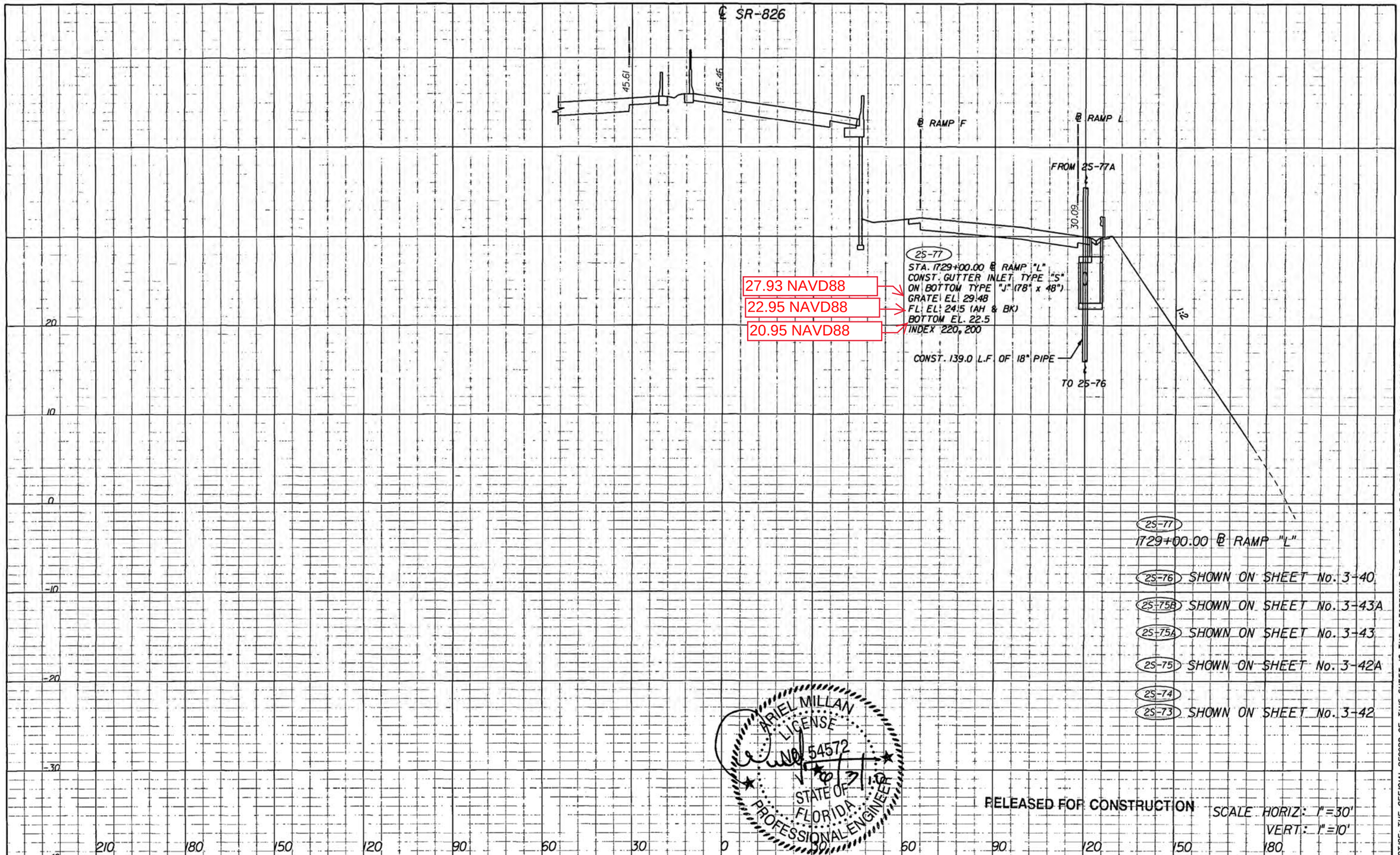
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-46



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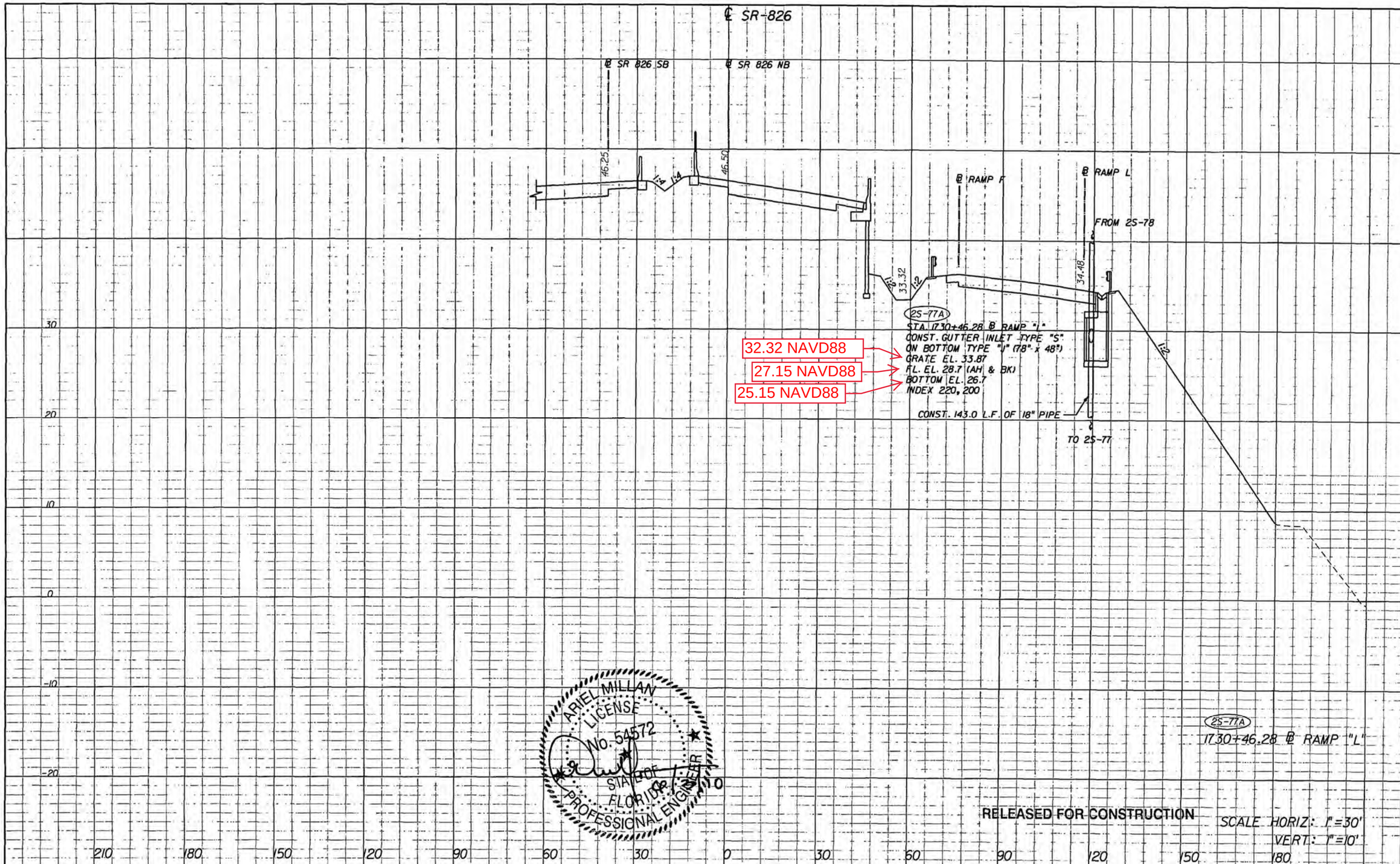
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-47



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SCALE HORIZ: 1"=30'
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DRAINAGE STRUCTURES

SHEET NO. 3-48

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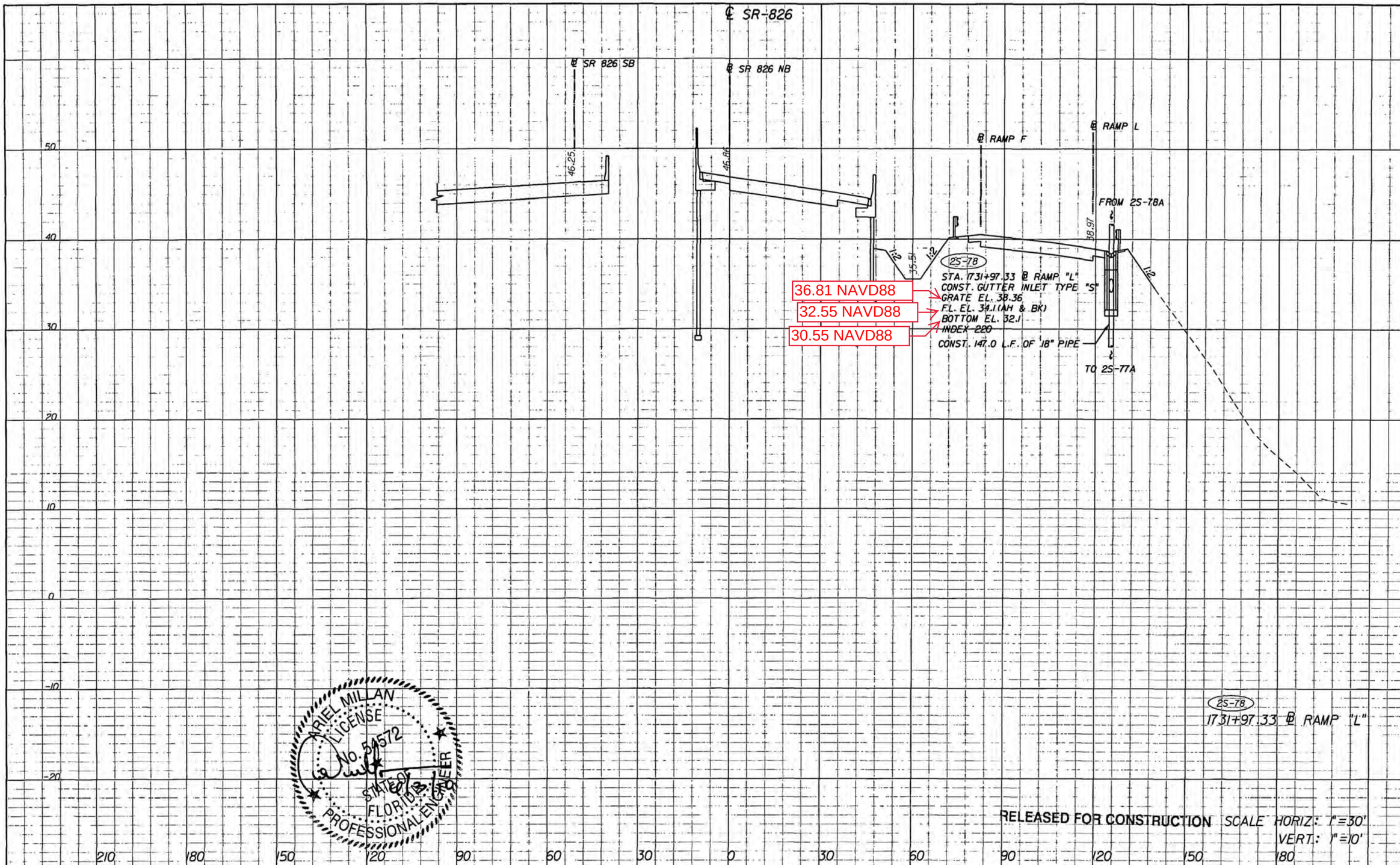

ARIEL MILLAN LICENSE No. 54572 STATE OF FLORIDA PROFESSIONAL ENGINEER

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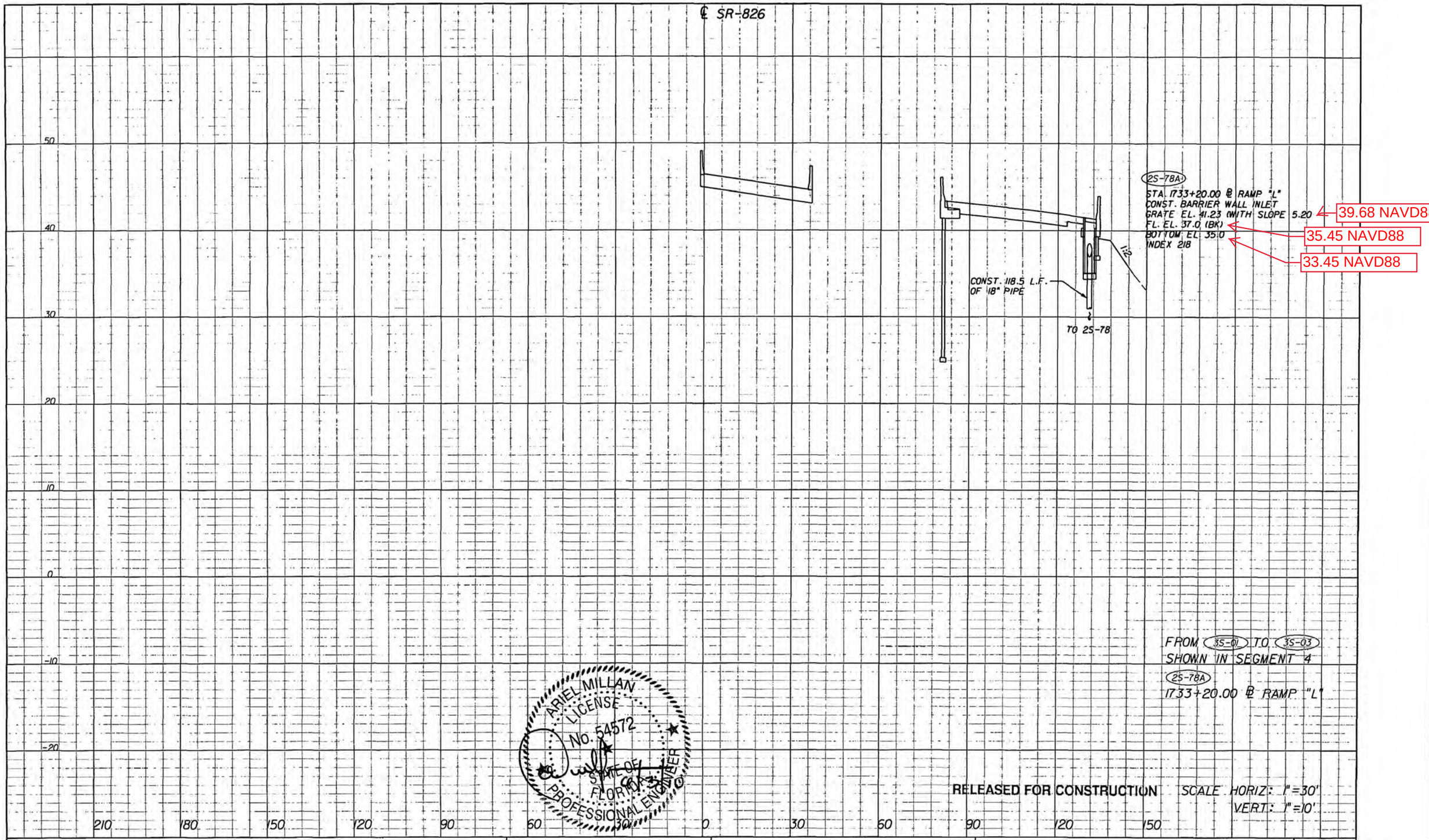
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 3-49



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SCALE HORIZ: 1"=30'
VERT: 1"=10'

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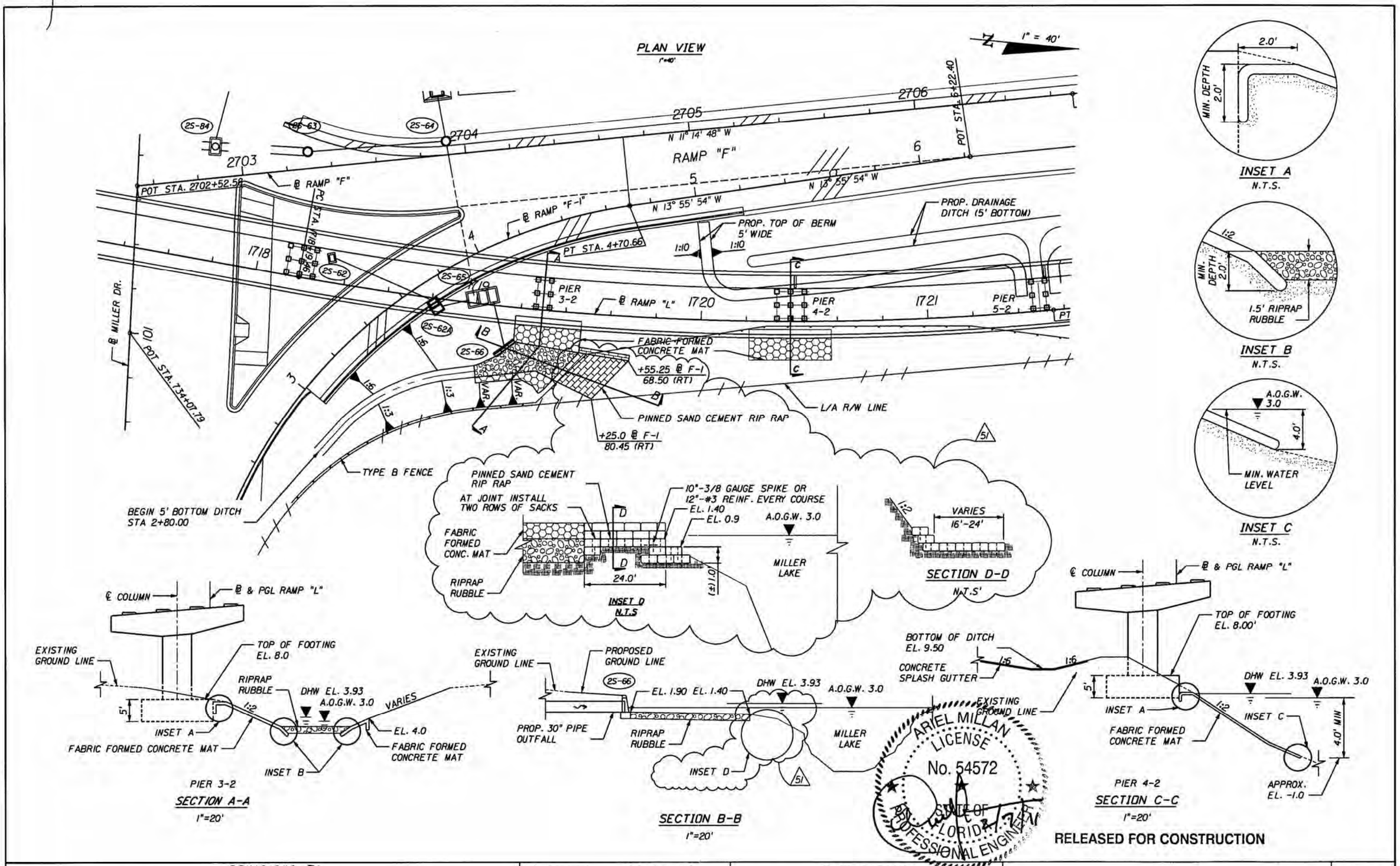
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
3-49A



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REVISIONS 51			
DATE	DESCRIPTION	DATE	DESCRIPTION
	51 ADDED PINNED SAND CEMENT RIP RAP FOR SLOPE PROTECTION		

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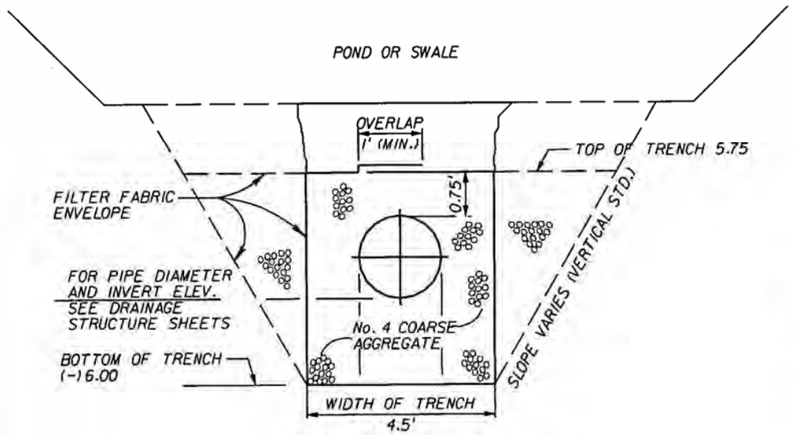
Certificate of Authorization No. 7189

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

SLOPE PROTECTION

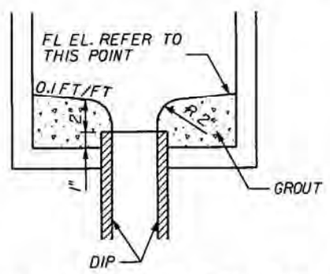
SHEET NO. 3-49B



FRENCH DRAIN DETAIL

FOR ADDITIONAL DETAILS SEE INDEX NO. 285

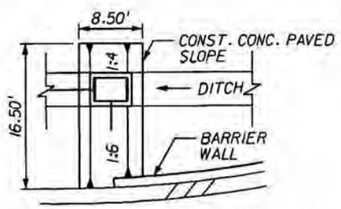
N.T.S



NOTE: GROUT TO CONSIST OF 3:1 SAND & MIXTURE OR ANY CLASS OF CONCRETE.

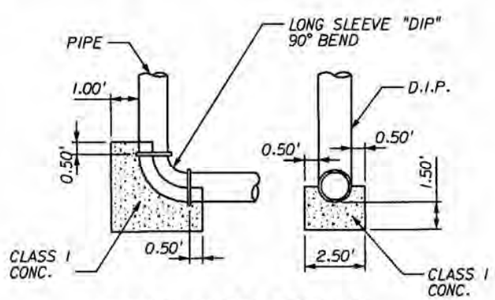
VERTICAL DRAIN STRUCTURE INVERT DETAIL

N.T.S



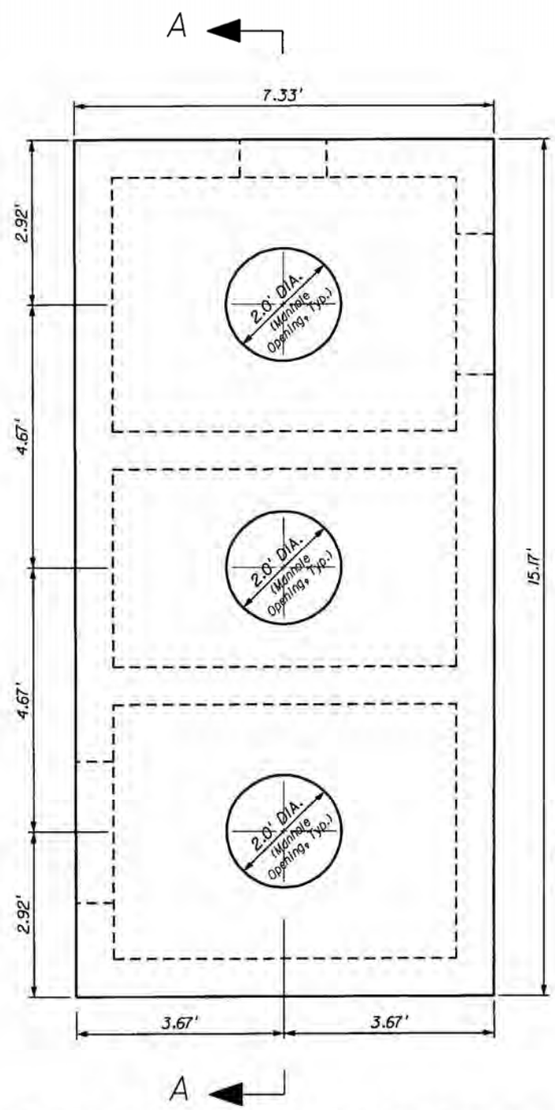
EROSION PROTECTION BETWEEN CONC. BARRIER WALL AND 2S-51

N.T.S



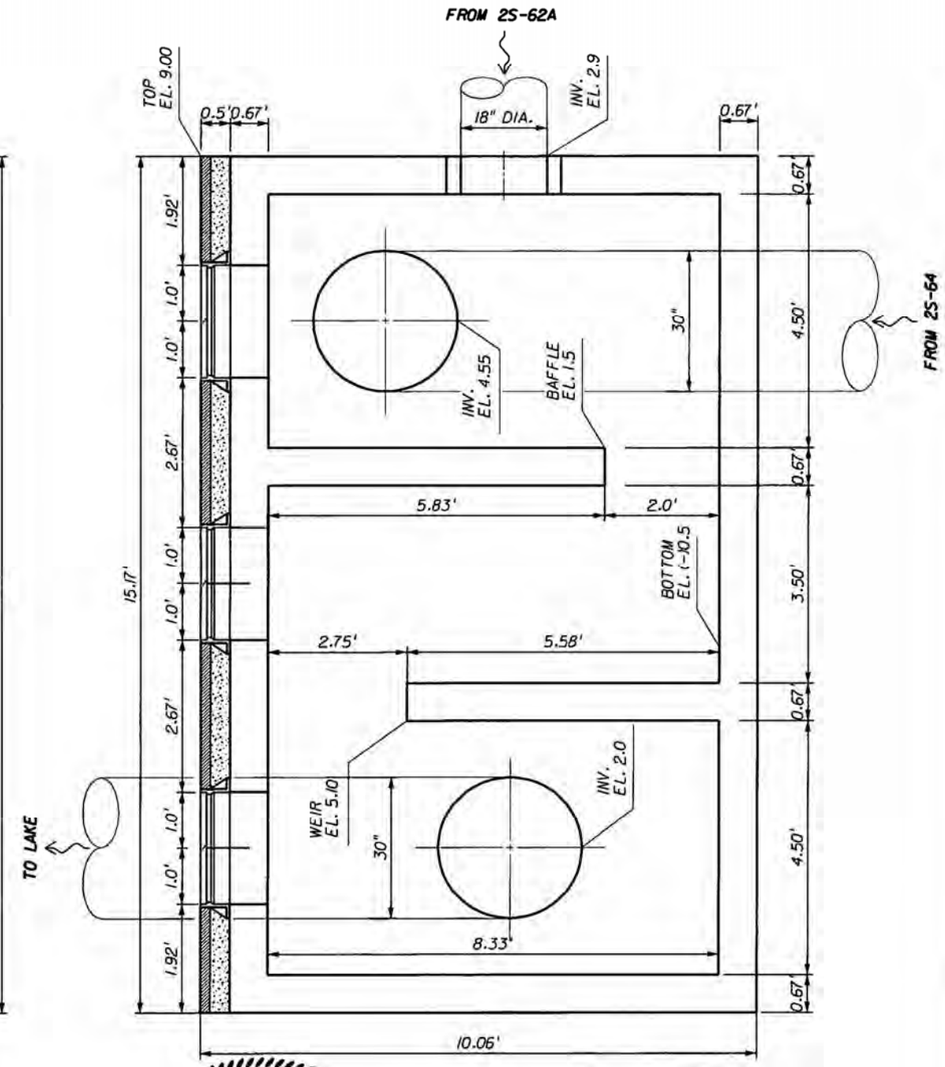
THRUST BLOCK DETAILS

N.T.S.



TOP SLAB REINFORCING DETAIL, STRUCTURE 2S-65

N.T.S.



SECTION A-A

N.T.S.

ARIEL MILLAN LICENSE No. 54572 STATE OF FLORIDA PROFESSIONAL ENGINEER

RELEASED FOR CONSTRUCTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bac engineering

ARIEL MILLAN, P.E.
P.E. License No. 54572
7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351
Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 3-50

System 7 & 7A – Reference Data

Excerpts from SFMWD ERP No. 13-02686-P

Excerpts from FDOT Records Plans for FM No. 249035-1-52-01

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
STANDARD GENERAL PERMIT NO. 13-02686-P
DATE ISSUED:August 22, 2011

Form #0941
08/95

PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
1000 N W 111TH AVE
MIAMI, FL 33172

PROJECT DESCRIPTION: Modification of a surface water management system to serve a 39.08-acre highway improvement project known as Palmetto Expressway (SR 826) Section 2 - System 3.

PROJECT LOCATION: MIAMI-DADE COUNTY, SEC 14,15,22,23 TWP 54S RGE 40E

PERMIT DURATION: See Special Condition No:1. See attached Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Notice of Intent for Permit Application No. 110727-3, dated July 27, 2011. This action is taken pursuant to Rule 40E-1.603 and Chapter 40E-40 , Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and an Environmental Resource General Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 19 General Conditions (See Pages : 2 - 4 of 6),
3. the attached 13 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 2 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on this 22nd day of August, 2011, in accordance with Section 120.60(3), Florida Statutes.

BY:_____

for Anita R. Bain
Bureau Chief - Environmental Resource Permitting
Palm Beach Service Center

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373. F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit

GENERAL CONDITIONS

Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit

GENERAL CONDITIONS

application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on August 22, 2016.

2. Operation of the surface water management system shall be the responsibility of the permittee.

3. Discharge Facilities:

   Structure: 3AS-12

   1-12' WIDE SHARP CRESTED weir with crest at elev. 4.5' NGVD 29.

   Receiving body : Lake Patricia
   Control elev : 3 feet NGVD 29.

   Structure: 3AS-1B

   1-12' WIDE SHARP CRESTED weir with crest at elev. 4.5' NGVD 29.

   Receiving body : Lake Patricia
   Control elev : 3 feet NGVD 29.

   Structure: 3S-69

   1-12' WIDE SHARP CRESTED weir with crest at elev. 4.5' NGVD 29.

   Receiving body : Tropical Park Lake
   Control elev : 3 feet NGVD 29.

   Structure: 3S-76

   1-12' WIDE SHARP CRESTED weir with crest at elev. 4.5' NGVD 29.

   Receiving body : Tropical Park Lake
   Control elev : 3 feet NGVD 29.

4. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.

5. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.

6. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

7. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.

8. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

9. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.

SPECIAL CONDITIONS

10. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.

11. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.

12. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

13. Reference is made to Exhibit No. 2 by the Florida Department of Transportation, Project ID 249035-1-52-01, State Road 826 (Palmetto Expressway) Section 2. The plan set consisting of drainage plans and detail sheets. The drawings have been signed and sealed by Dionosio Felipe Torres P.E., of BCC Engineering, Inc. on 7/27/11 and have been included in this permit by reference (please see permit file).

40E-4.321 Duration of Permits.

(1) Unless revoked or otherwise modified the duration of an environmental resource permit issued under this chapter or Chapter 40E-40, F.A.C., is as follows:

(a) For a conceptual approval, two years from the date of issuance or the date specified as a condition of the permit, unless within that period an application for an individual or standard general permit is filed for any portion of the project. If an application for an environmental resource permit is filed, then the conceptual approval remains valid until final action is taken on the environmental resource permit application. If the application is granted, then the conceptual approval is valid for an additional two years from the date of issuance of the permit. Conceptual approvals which have no individual or standard general environmental resource permit applications filed for a period of two years shall expire automatically at the end of the two year period.

(b) For a conceptual approval filed concurrently with a development of regional impact (DRI) application for development approval (ADA) and a local government comprehensive plan amendment, the duration of the conceptual approval shall be two years from whichever one of the following occurs at the latest date:

1. The effective date of the local government's comprehensive plan amendment,
2. The effective date of the local government development order,
3. The date on which the District issues the conceptual approval, or
4. The date on which the District issues a final order pertaining to the resolution of any Section 120.57, F.S., administrative proceeding or other legal appeals.

(c) For an individual or standard general environmental resource permit, the construction phase authorizing construction, removal, alteration or abandonment of a system shall expire five years from the date of issuance or such amount of time as made a condition of the permit.

(d) For an individual or standard general environmental resource permit, the operational phase of the permit is perpetual for operation and maintenance.

(e) For a noticed general permit issued pursuant to Chapter 40E-400, F.A.C., five years from the date the notice of intent to use the permit is provided to the District.

(2)(a) Unless prescribed by special permit condition, permits expire automatically according to the timeframes indicated in this rule. If application for extension is made by electronic mail at the District's e-Permitting website or in writing pursuant to subsection (3), the permit shall remain in full force and effect until:

1. The Governing Board takes action on an application for extension of an individual permit, or
2. Staff takes action on an application for extension of a standard general permit.

(b) Installation of the project outfall structure shall not constitute a vesting of the permit.

(3) The permit extension shall be issued provided that a permittee files a written request with the District showing good cause prior to the expiration of the permit. For the purpose of this rule, good cause shall mean a set of extenuating circumstances outside of the control of the permittee. Requests for extensions, which shall include documentation of the extenuating circumstances and how they have delayed this project, will not be accepted more than 180 days prior to the expiration date.

(4) Substantial modifications to Conceptual Approvals will extend the duration of the Conceptual Approval for two years from the date of issuance of the modification. For the purposes of this section, the term "substantial modification" shall mean a modification which is reasonably expected to lead to substantialty different water resource or environmental impacts which require a detailed review.

(5) Substantial modifications to individual or standard general environmental resource permits issued pursuant to a permit application extend the duration of the permit for three years from the date of issuance of the modification. Individual or standard general environmental resource permit modifications do not extend the duration of a conceptual approval.

(6) Permit modifications issued pursuant to paragraph 40E-4.331(2)(b), F.A.C. (letter modifications) do not extend the duration of the permit.

(7) Failure to complete construction or alteration of the surface water management system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization in order to continue construction unless a permit extension is granted.

Specific Authority 373.044, 373.113, 668.003, 668.004, 668.50 FS. Law Implemented 373.413, 373.416, 373.419, 373.426, 668.003, 668.004, 668.50 FS. History–New 9-3-81, Amended 1-31-82, 12-1-82, Formerly 16K-4.07(4), Amended 7-1-86, 4-20-94, 10-3-95, 5-28-00, 10-1-06.

NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does <u>not</u> constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office**. An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

Initiation of an Administrative Hearing
Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation
The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-.405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW
Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

Last Date For Agency Action: September 25, 2011

GENERAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: Palmetto Expressway (Sr 826) Section 2 - System 3

Permit No.: 13-02686-P

Application No.: 110727-3

Application Type: Environmental Resource (General Permit Modification)

Location: Miami-Dade County, S14,15,22,23/T54S/R40E

Permittee : Florida Department Of Transportation

Operating Entity : Permittee

Project Area: 39.08 acres

Project Land Use: Highway

Drainage Basin: C-3

Receiving Body: Lake Patricia & Tropical Lake Park

Special Drainage District: NA

Conservation Easement To District : No

Sovereign Submerged Lands: No

PROJECT PURPOSE:

This application is a request for modification of an Environmental Resource Permit to authorize construction and operation of a surface water management system to serve a 39.08-acre highway improvement project known as Palmetto Expressway (SR 826) Section 2 - System 3.

PROJECT EVALUATION:

PROJECT SITE DESCRIPTION:

The project site is comprised of SR 874 from the bridge over Miller Drive to and including the SR 874/SR 826 Interchange (See Exhibit 1). The proposed highway improvements consist of roadway widening and interchange improvements. Wetland issues were addressed in the original permit for the project. There are no additional wetland or other surface water impacts associated with this modification.

PROJECT BACKGROUND:

The Section 2 portion of the proposed SR 826 improvements project was originally authorized in December of 2005 (Permit No. 13-02686-P - Application No. 050727-16) which encompassed 146.30-acres and extended from south of Miller Drive (SW 56th Street) to Bird Road (SW 40th Street). The permitted surface water management system consisted of five (5) drainage systems.

Since issuance of the original permit, the project has been divided into three construction phases and modifications have been made to the originally permit surface water management system.

Permit No. 13-02686-P was modified under application number 090928-1 for the Phase-1 construction and operation of Drainage Systems 1 & 2 which extended from the Sunset Drive Interchange north to the CSX railroad tracks.

Permit No. 13-02686-P was modified under application number 100621-2 for the Phase-2 construction and operation of Drainage Systems 4 & 5 which extended from the SR 826/SR 874 Interchange north to SW 33rd Terrace.

PROPOSED PROJECT:

Proposed is the modification of Permit No. 13-02686-S for the construction and operation of a surface water management system to serve a 39.08-acre highway improvement project known as Palmetto Expressway (SR 826) Section 2 - System 3. This application is a request to modify the originally permitted design for drainage system 3 of the project.

System 3 is comprised of SR 874 from the bridge over Miller Drive to and including the SR 874/SR 826 Interchange. The proposed surface water management system will consist of inlets, culverts and exfiltration trench which will provide water quality treatment prior to overflow through four (4) control structures (See Discharge Structures) into Lake Patricia and Tropical Park Lake.

LAND USE:

Construction:
Project:

	Total Project	
Impervious	24.87	acres
Pervious	14.21	acres
Total:	**39.08**	

WATER QUANTITY :

Discharge Rate :

The applicant has submitted drainage analysis which demonstrates that the post-development peak discharge rate for the 25-year 3-day design storm event will not exceed existing conditions.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD 29)	WSWT Ctrl Elev (ft, NGVD 29)	Method Of Determination
System 3	39.08	3	3.00	Previously Permitted

Receiving Body :

Basin	Str.#	Receiving Body
System 3	3AS-12	Lake Patricia
System 3	3AS-1B	Lake Patricia
System 3	3S-69	Tropical Park Lake
System 3	3S-76	Tropical Park Lake

Discharge Structures: Note: The units for all the elevation values of structures are (ft, NGVD 29)

Weirs:

Basin	Str#	Count	Type	Width Height Length	Dia.	Elev.
System 3	3AS-12	1	Sharp Crested	12'		4.5 (crest)
System 3	3AS-1B	1	Sharp Crested	12'		4.5 (crest)
System 3	3S-69	1	Sharp Crested	12'		4.5 (crest)
System 3	3S-76	1	Sharp Crested	12'		4.5 (crest)

WATER QUALITY :

The required water quality treatment (2.5" times the percent impervious) will be provided in exfiltration trench.

Basin		Treatment Method	Vol Req.d (ac-ft)	Vol Prov'd
System 3	Treatment	Exfiltration Trench	3.89	3.89

WETLANDS:

Wetland issues were addressed by the issuance of ERP Number 13-02686-P. Adverse impacts to wetlands or other surface waters are not anticipated.

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

It is suggested that the permittee retain the services of a Professional Engineer registered in the State of Florida for periodic observation of construction of the surface water management (SWM) system. This will facilitate the completion of construction completion certification Form #0881 which is required pursuant to Section 10 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, and Rule 40E-4.361(2), Florida Administrative Code (F.A.C.).

Pursuant to Chapter 40E-4 F.A.C., this permit may not be converted from the construction phase to the operation phase until certification of the SWM system is submitted to and accepted by this District. Rule 40E-4.321(7) F.A.C. states that failure to complete construction of the SWM system and obtain operation

phase approval from the District within the permit duration shall require a new permit authorization unless a permit extension is granted.

For SWM systems permitted with an operating entity who is different from the permittee, it should be noted that until the permit is transferred to the operating entity pursuant to Rule 40E-1.6107, F.A.C., the permittee is liable for compliance with the terms of this permit.

The permittee is advised that the efficiency of a SWM system will normally decrease over time unless the system is periodically maintained. A significant reduction in flow capacity can usually be attributed to partial blockages of the conveyance system. Once flow capacity is compromised, flooding of the project may result. Maintenance of the SWM system is required to protect the public health, safety and the natural resources of the state. Therefore, the permittee must have periodic inspections of the SWM system performed to ensure performance for flood protection and water quality purposes. If deficiencies are found, it is the responsibility of the permittee to correct these deficiencies in a timely manner.

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that dewatering is not anticipated for this project. This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

CERP:

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Right-Of-Way Permit Status:

A District Right-of-Way Permit is not required for this project.

DRI Status:

This project is not a DRI.

Historical/Archeological Resources:

No information has been received that indicates the presence of archaeological or historical resources or that the proposed activities could cause adverse impacts to archaeological or historical resources.

DCA/CZM Consistency Review:

The issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

Third Party Interest:

No third party has contacted the District with concerns about this application.

Enforcement:

There has been no enforcement activity associated with this application.

STAFF REVIEW:

DIVISION APPROVAL:

NATURAL RESOURCE MANAGEMENT:

Anita R. Bain

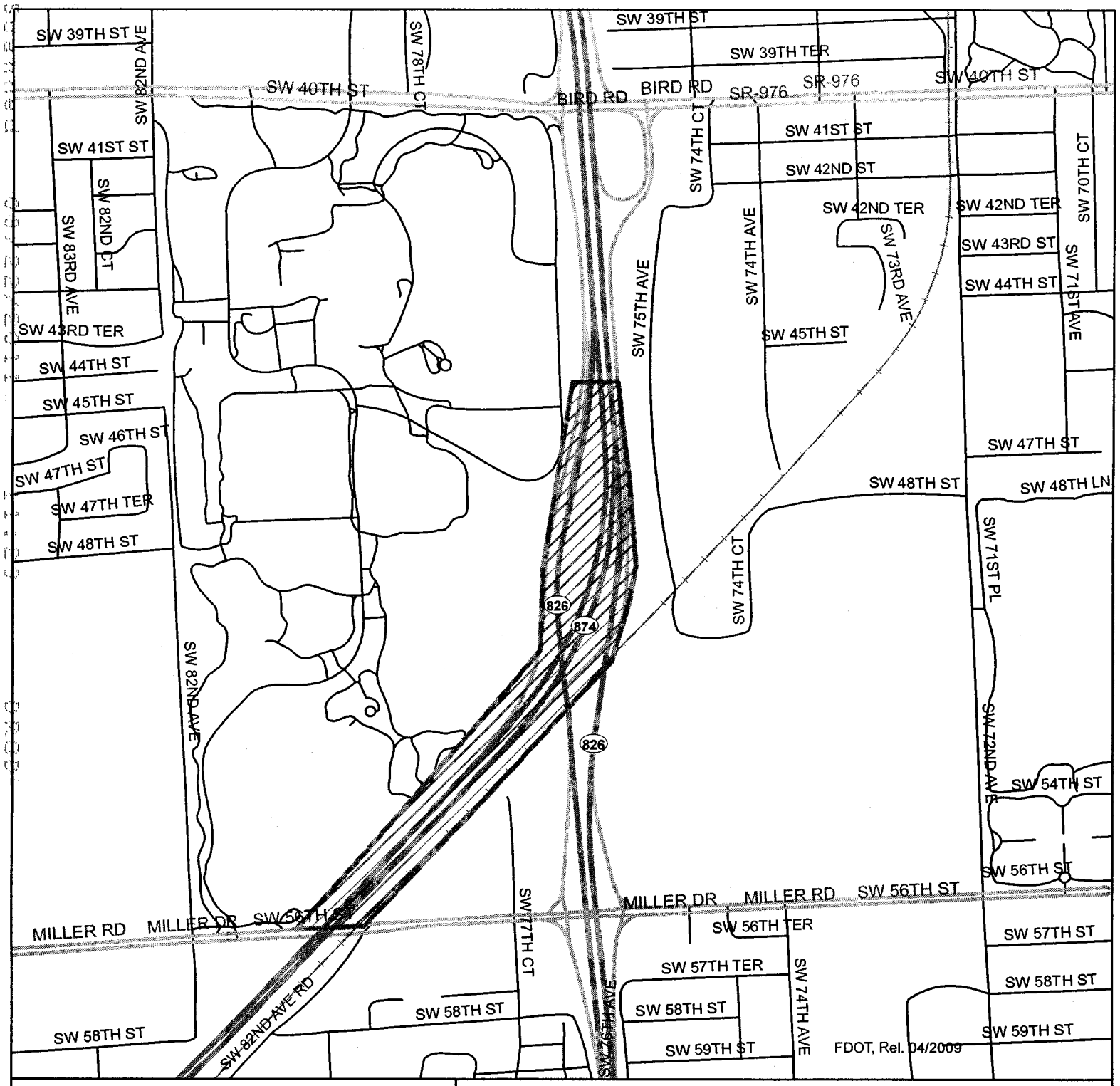
for Anita R. Bain

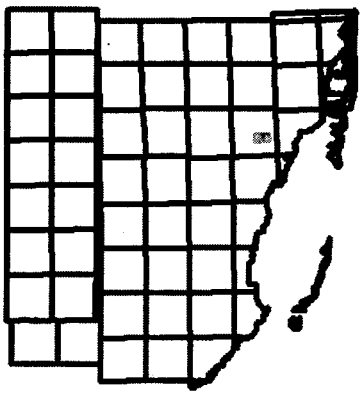
DATE: 8/19/11

SURFACE WATER MANAGEMENT:

DATE: 8/19/11

Carlos A. de Rojas, P.E.





MIAMI-DADE COUNTY, FLORIDA

N

Legend

Application

Map Date: 2011-08-16

Application Number: 110727-3

Permit Number: 13-02686-P

Sec 14,15,22,23 / Twp 54 / Rge 40

Project Name: Name: PALMETTO EXPRESSWAY (SR 826) SECTION 2 - SYSTEM 3

0 1,125 2,250 Feet

Exhibit No. 1

APPLICATION NO. 110727-3
PERMIT NO. 13-02686-P
Palmetto Expressway (SR 826)
Section 2 – System 3

EXHIBIT NUMBER 2

PLAN SET TITLED: State Road 826 (Palmetto Expressway) Section 2, Project ID 249035-1-52-01

INCORPORATED BY REFERENCE

STAFF REPORT DISTRIBUTION LIST

PALMETTO EXPRESSWAY (SR 826) SECTION 2 - SYSTEM 3

Application No: 110727-3

Permit No: 13-02686-P

INTERNAL DISTRIBUTION

X Joseph D. Santangelo
X Ronald Peekstok
X Carlos A. de Rojas, P.E.
X Anita R. Bain
X ERC Environmental
X H. Azizi
X Miami-Dade Service Center
X Permit File
X R. Karafel

EXTERNAL DISTRIBUTION

X Permittee - Florida Department Of Transportation
X Agent - B C C Engineering Inc

GOVERNMENT AGENCIES

X Department of Env.Resource Mgmt Evan Skornick
X Department of Env.Resource Mgmt Linda Spadafina
X Department of Env.Resource Mgmt Matt Davis-
X Miami-Dade County - DERM (Maria D. Molina, PE)
X Miami-Dade County Engineer Public Works Department

STAFF REPORT DISTRIBUTION LIST

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Miami-Dade County Engineer Public Works Department
111 Nw First Street
Metro Dade Center, 14th Floor
Miami FL 33128
publicworks@miamidade.gov

COMPONENTS OF SEGMENT CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINAL AS-BUILTS PLANS

~~CONTRACT PLANS~~

FINANCIAL PROJECT ID 249035-1-52-01

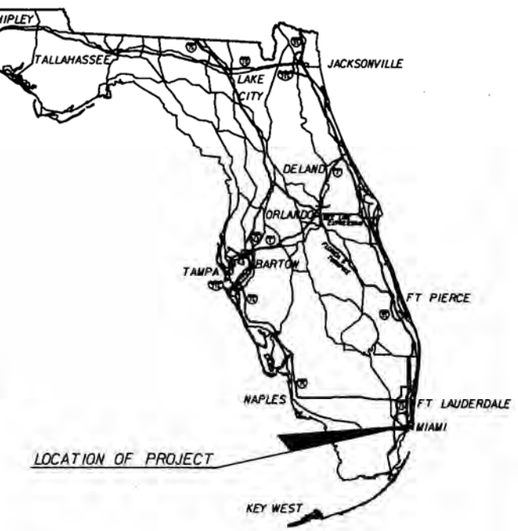
(FEDERAL FUNDS)

MIAMI-DADE COUNTY (87260)

STATE ROAD NO. 826 (PALMETTO EXPRESSWAY)

SECTION 2

SEGMENT 4



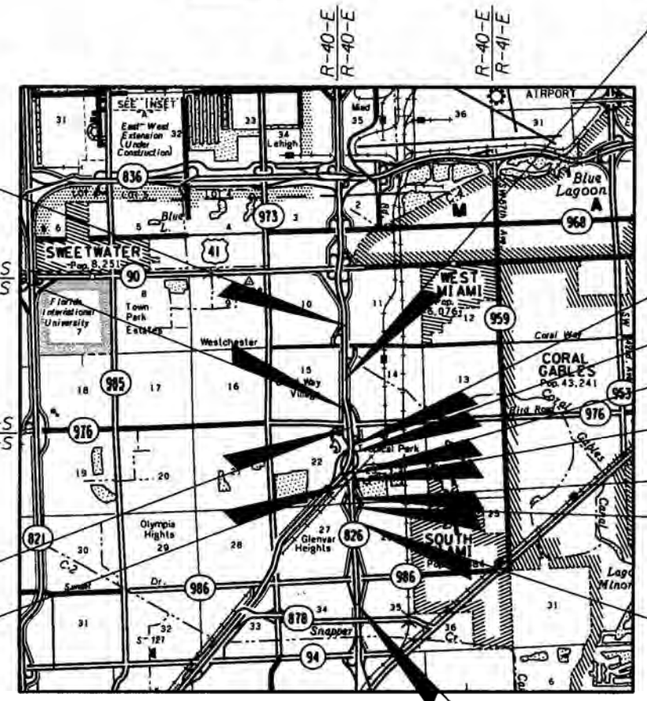
A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
4-2 - 4-3	DRAINAGE MAP
4-4 - 4-12	TYPICAL SECTIONS
4-13	TYPICAL SECTIONS DETAILS
4-14 - 4-17	SUMMARY OF DRAINAGE STRUCTURES
4-18	OPTIONAL MATERIALS TABULATION
4-19	PROJECT LAYOUT
4-20	GENERAL NOTES
CTL-1 - CTL-4	PROJECT NETWORK CONTROL
CACD	CURVE AND COORDINATE DATA
4-21 - 4-35	ROADWAY PLANS
4-36	S.R. 874 PGL TIES TO ℄ SR874
4-37 - 4-38	SUPERELEVATION DIAGRAM SR 874 LANES
4-39 - 4-60	PROFILES
4-61 - 4-113	DRAINAGE STRUCTURES
4-114 - 4-116	MISCELLANEOUS DRAINAGE DETAILS
4-117	CROSS SECTION PATTERN SHEET
4-118 - 4-154	CROSS SECTIONS
4-155	ROADWAY SOIL SURVEY

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008,
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01-01-08
For Design Standards Modifications click on "Design Standards" at the following web site:
http://www.dot.state.fl.us/rddesign/



END PROJECT
STA 295+40.00 ℄ S.R. 826

END BRIDGE No. 8
STA. 462+04.60

T-53-S
T-54-S

T-54-S
T-54-S

BEGIN BRIDGE NO. 8
STA 460+44.18

BEGIN CONSTRUCTION SEGMENT 4
STA 421+02.90
℄ SR. 826 NB

EQUATION
STA 491+75.09 BACK =
STA 261+00.00 AHEAD

N

0 1 2
MILES

EQUATION
STA. 105+92.37 S.R. 874 BACK =
STA 434+01.57 AHEAD

END CONSTRUCTION SEGMENT 4
STA. 440+00.00 ℄ SR 826

END BRIDGE NO. 6
STA 424+21.75

BEGIN BRIDGE NO. 6
STA 420+91.75

END BRIDGE NO. 1
STA 406+74.11

BEGIN BRIDGE NO. 1
STA 405+14.36

EQUATION
STA. 125+00.00 BACK =
STA 373+74.18 AHEAD

BEGIN PROJECT
STA 96+00.00
M.P. 1.8048 (NB)

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

DIONISIO FELIPE TORRES, P.E.
BCC ENGINEERING
7300 NORTH KENDALL DRIVE,
SUITE 400
MIAMI, FL 33156
(305) 670-2350

PLANS PREPARED BY:

bcc engineering
7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351
Certificate of Authorization No. 7184

Certificate of Authorization No. 7184
Contract No: E-6E59
Vendor Identification No: 65-0540100

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

PROJECT LENGTH IS BASED ON ℄ OF CONSTRUCTION SR 826 NB

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	17,490.74	3.313
BRIDGES	650.17	0.123
NET LENGTH OF PROJECT	18,140.91	3.436
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	18,140.91	3.436

FDOT PROJECT MANAGER: JASON CHANG, P.E.

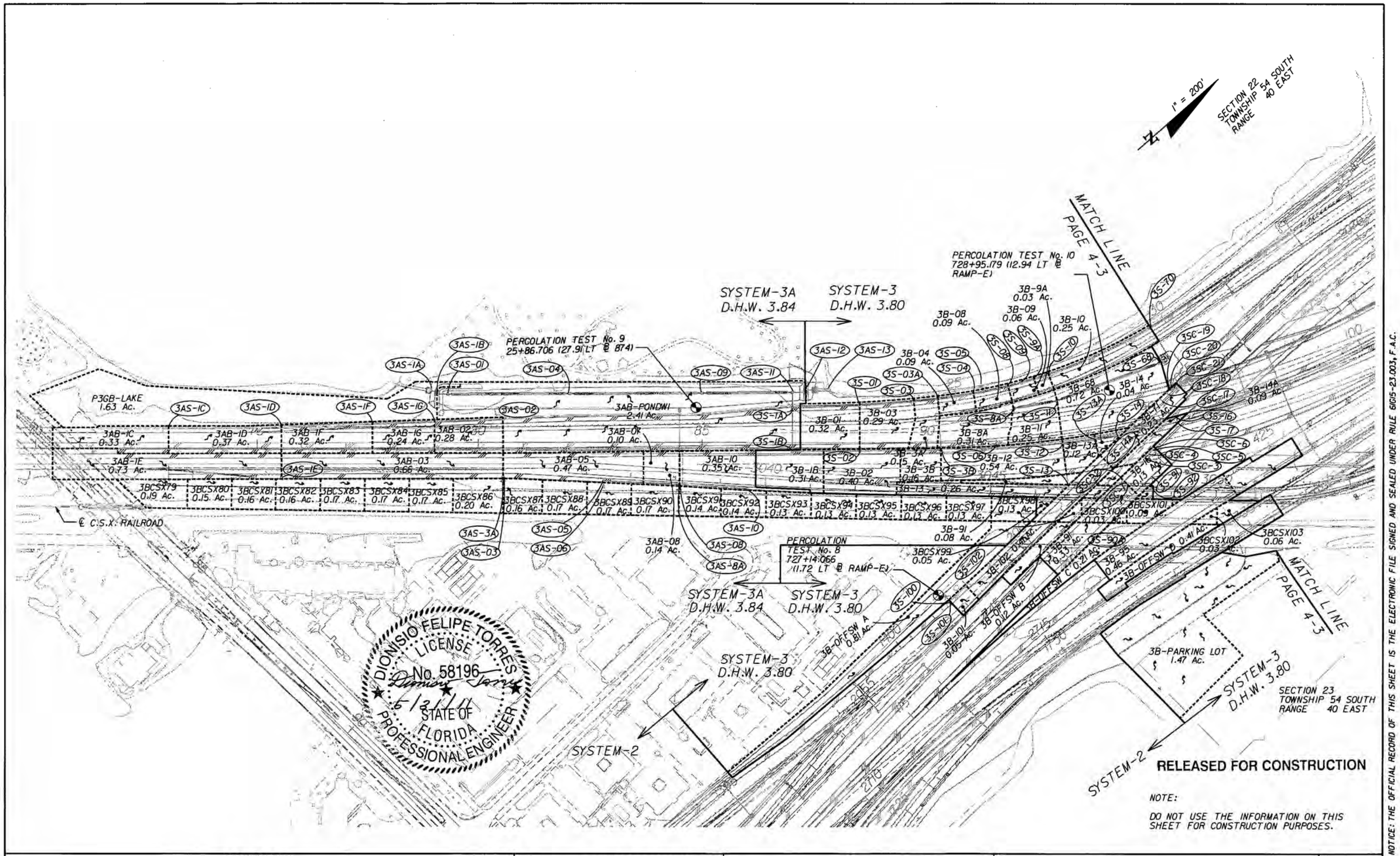
KEY SHEET REVISIONS	
DATE	DESCRIPTION

RELEASED FOR CONSTRUCTION

ROADWAY PLANS
ENGINEER OF RECORD: DIONISIO FELIPE TORRES, P.E.

P.E. NO.: 58196

FISCAL YEAR	SHEET NO.
08	4-1



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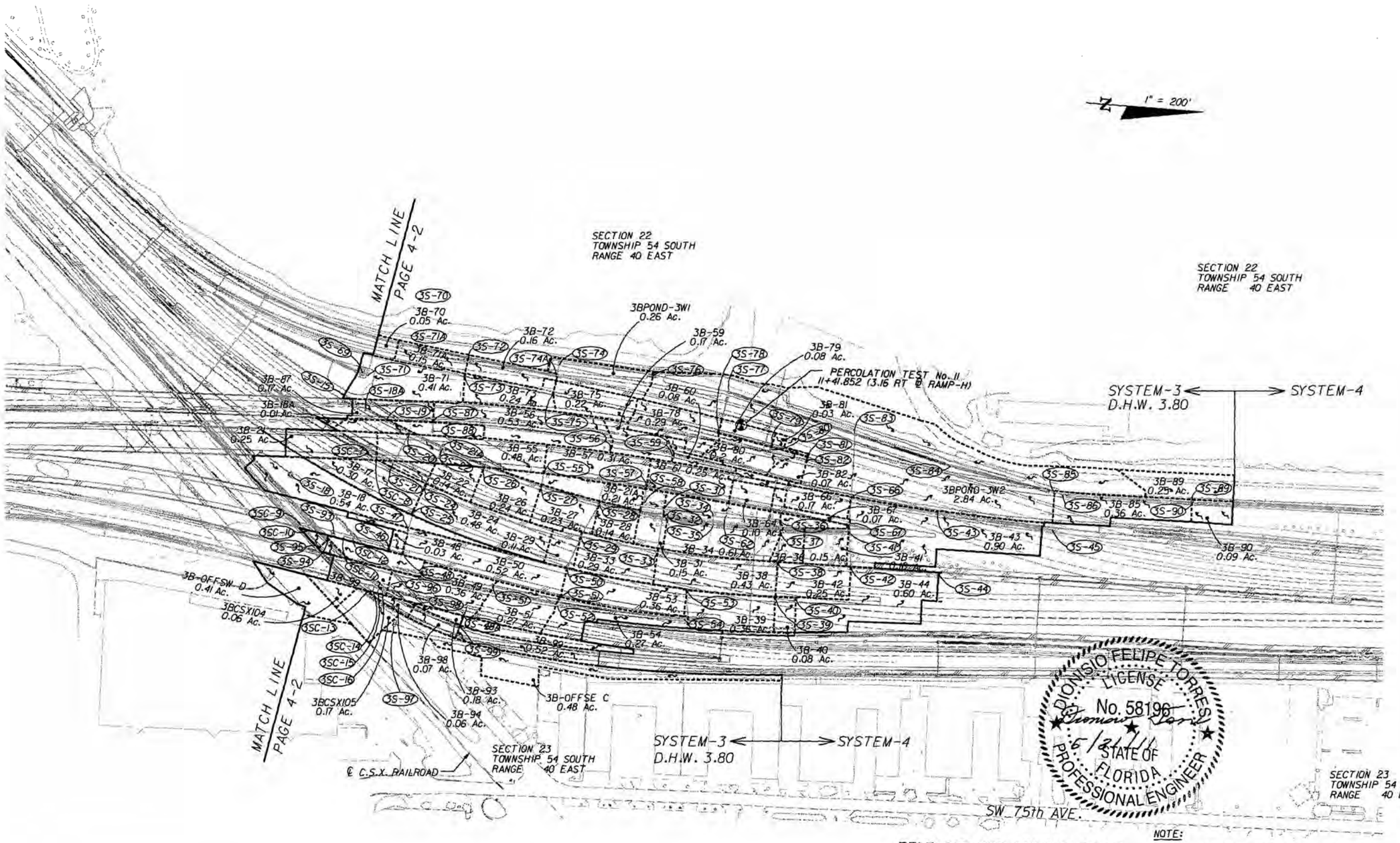
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

POST-DEVELOPMENT DRAINAGE MAP

SHEET NO. 4-2



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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

POST-DEVELOPMENT DRAINAGE MAP

SHEET NO. 4-3

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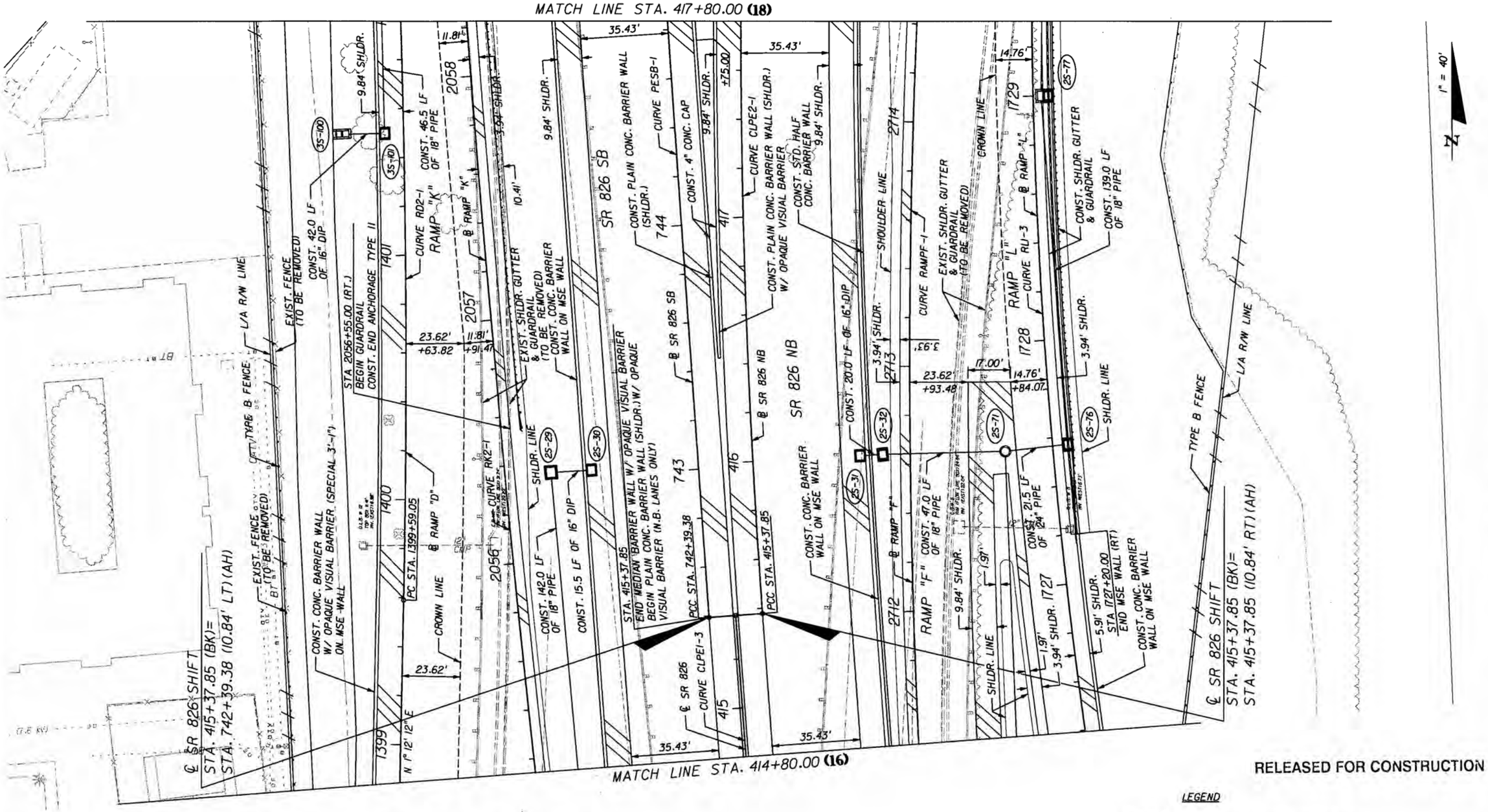

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PROPOSED SHOULDER PAVEMENT

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S.R. 826

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (17)

SHEET NO. *

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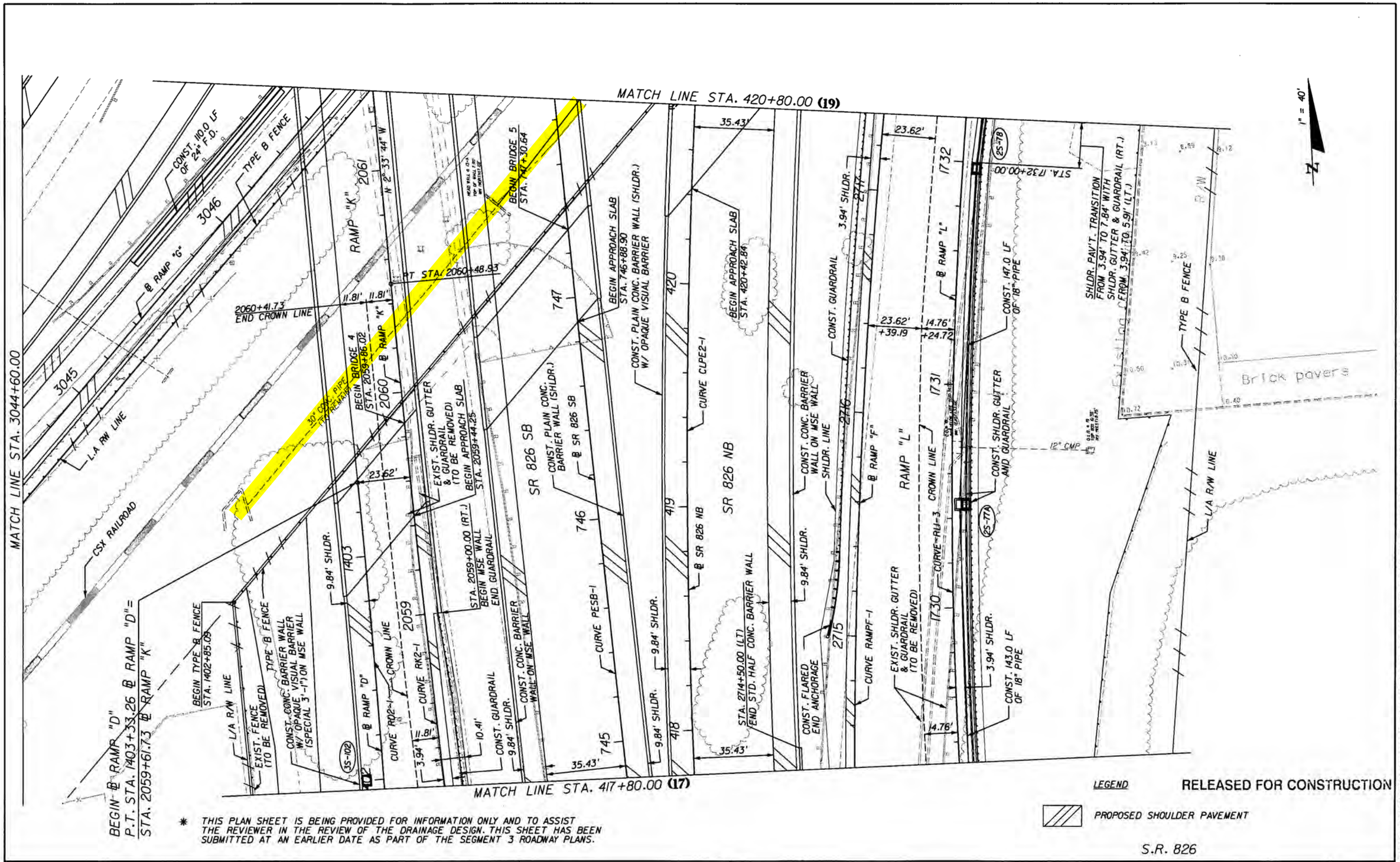

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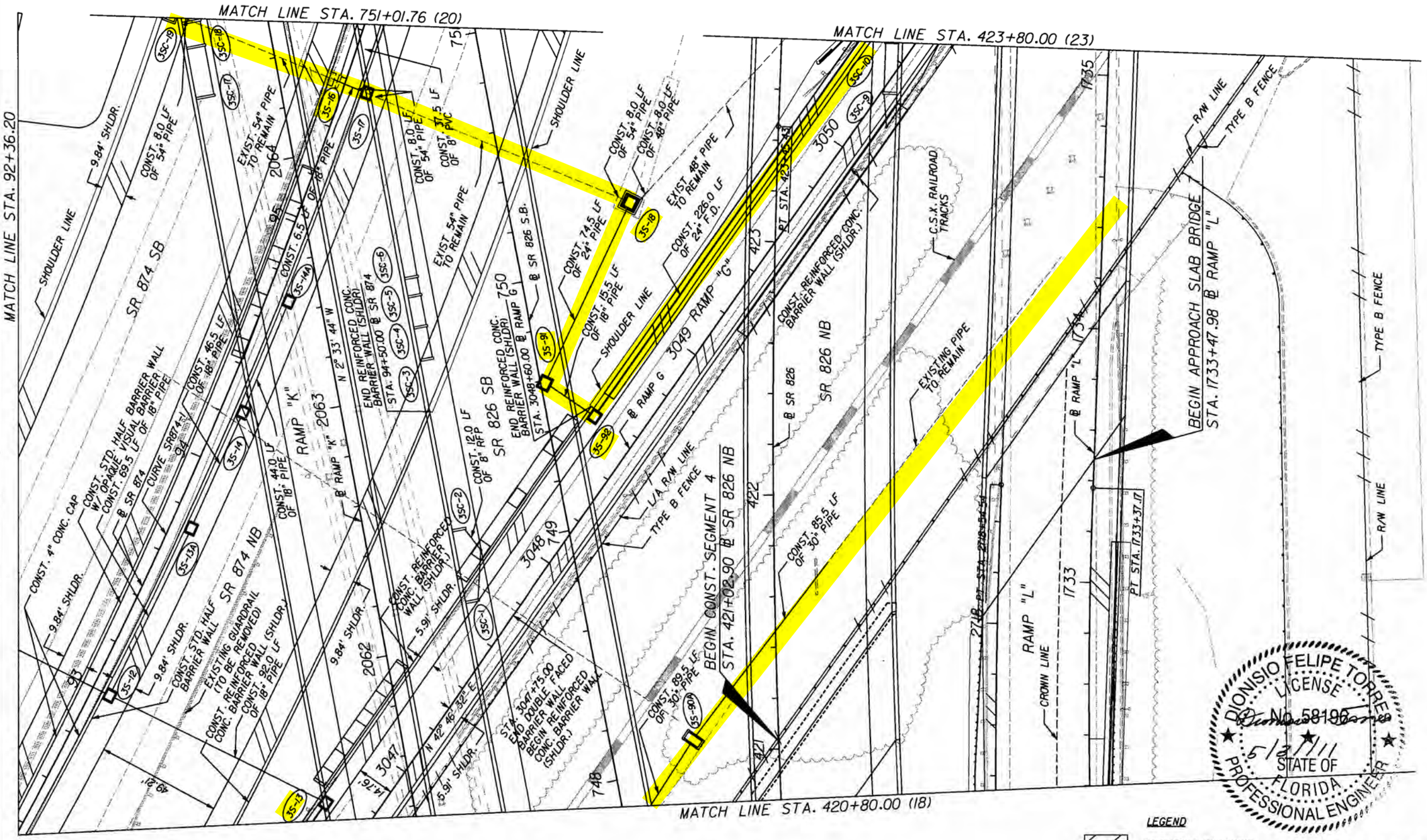
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (18)

SHEET NO. *



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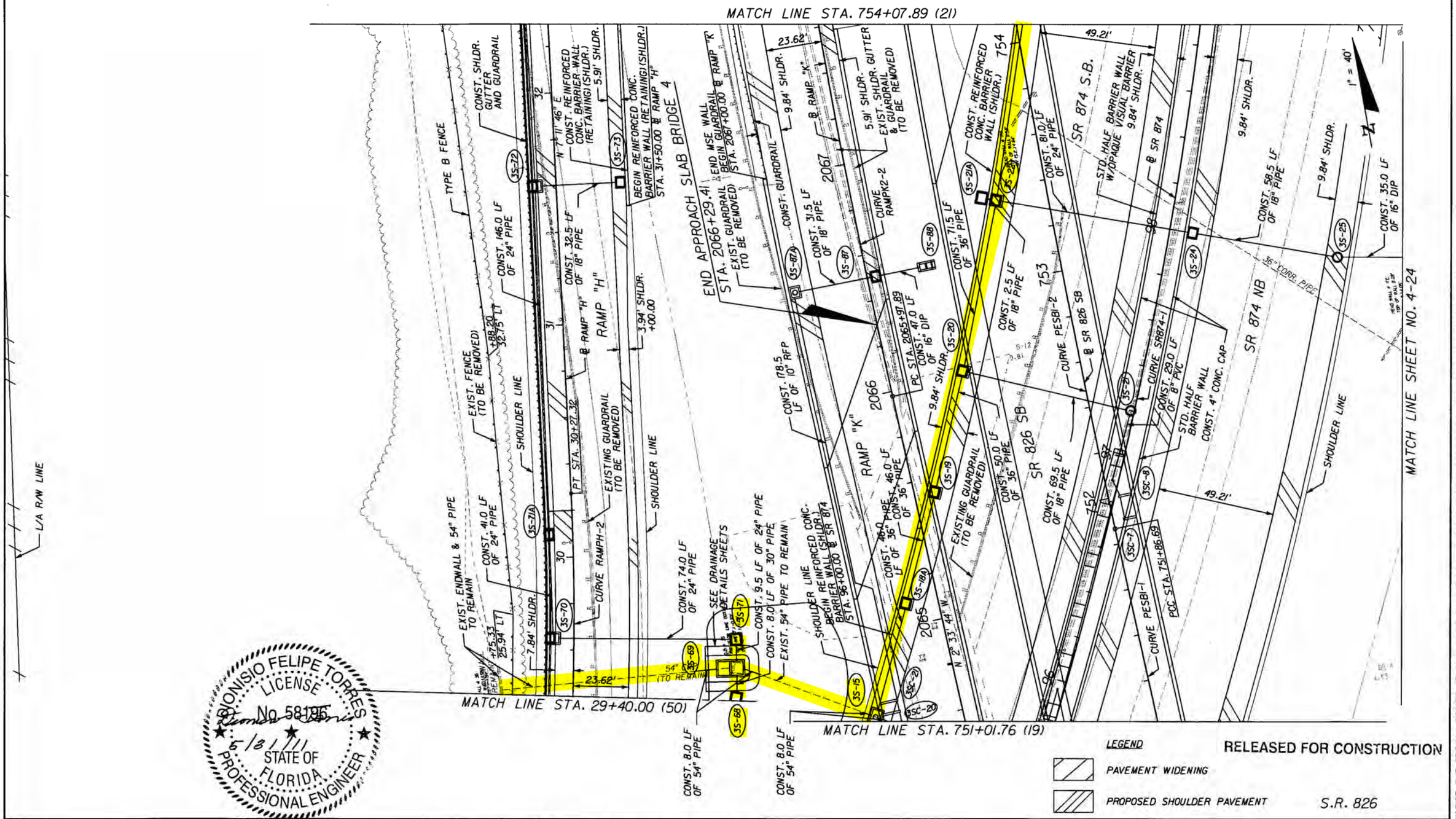
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (19)

SHEET NO. 4-21



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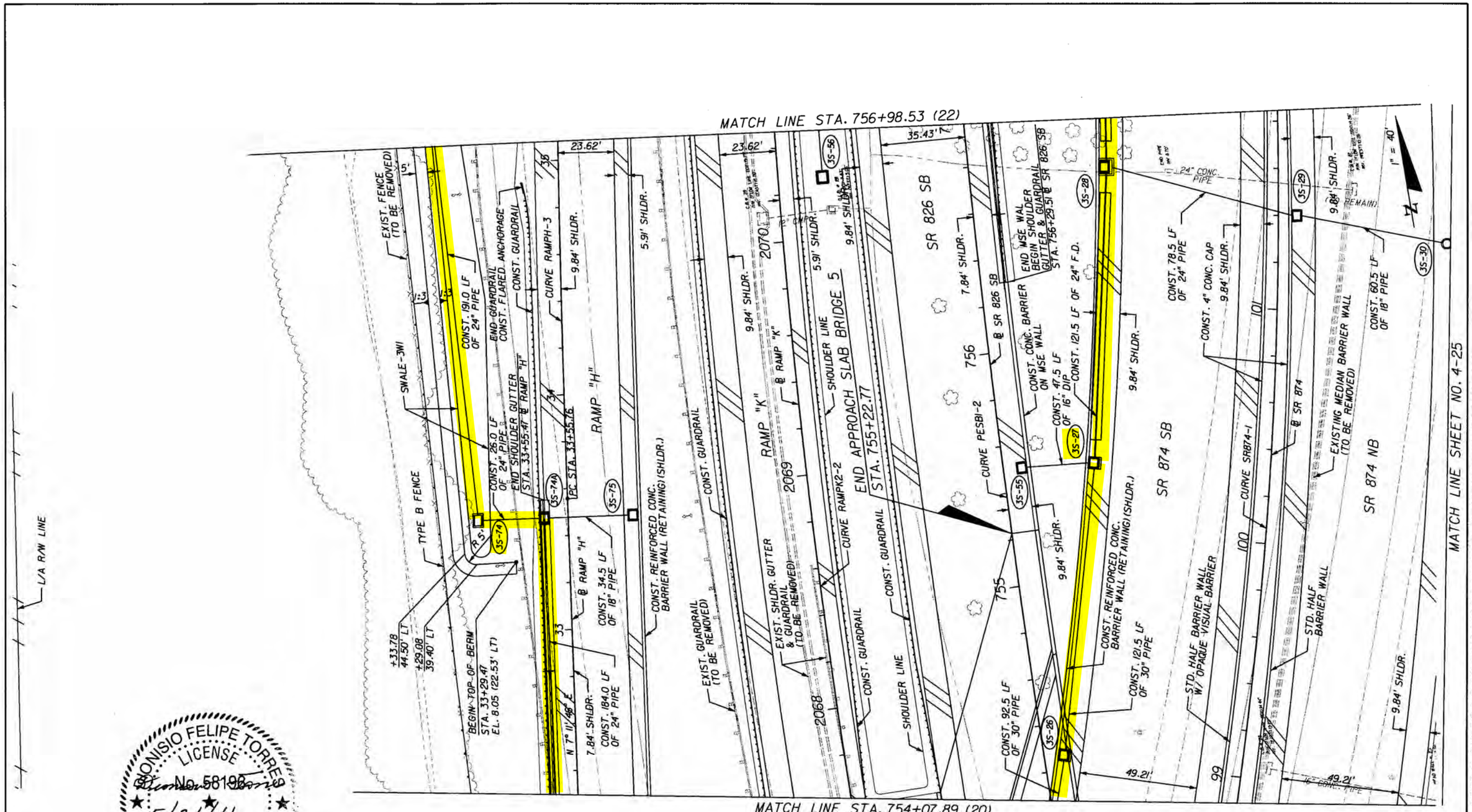
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (20)

SHEET NO. 4-22



LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

RELEASED FOR CONSTRUCTION

S.R. 826

DIONISIO FELIPE TORRES
LICENSE
No. 58196
5/26/11
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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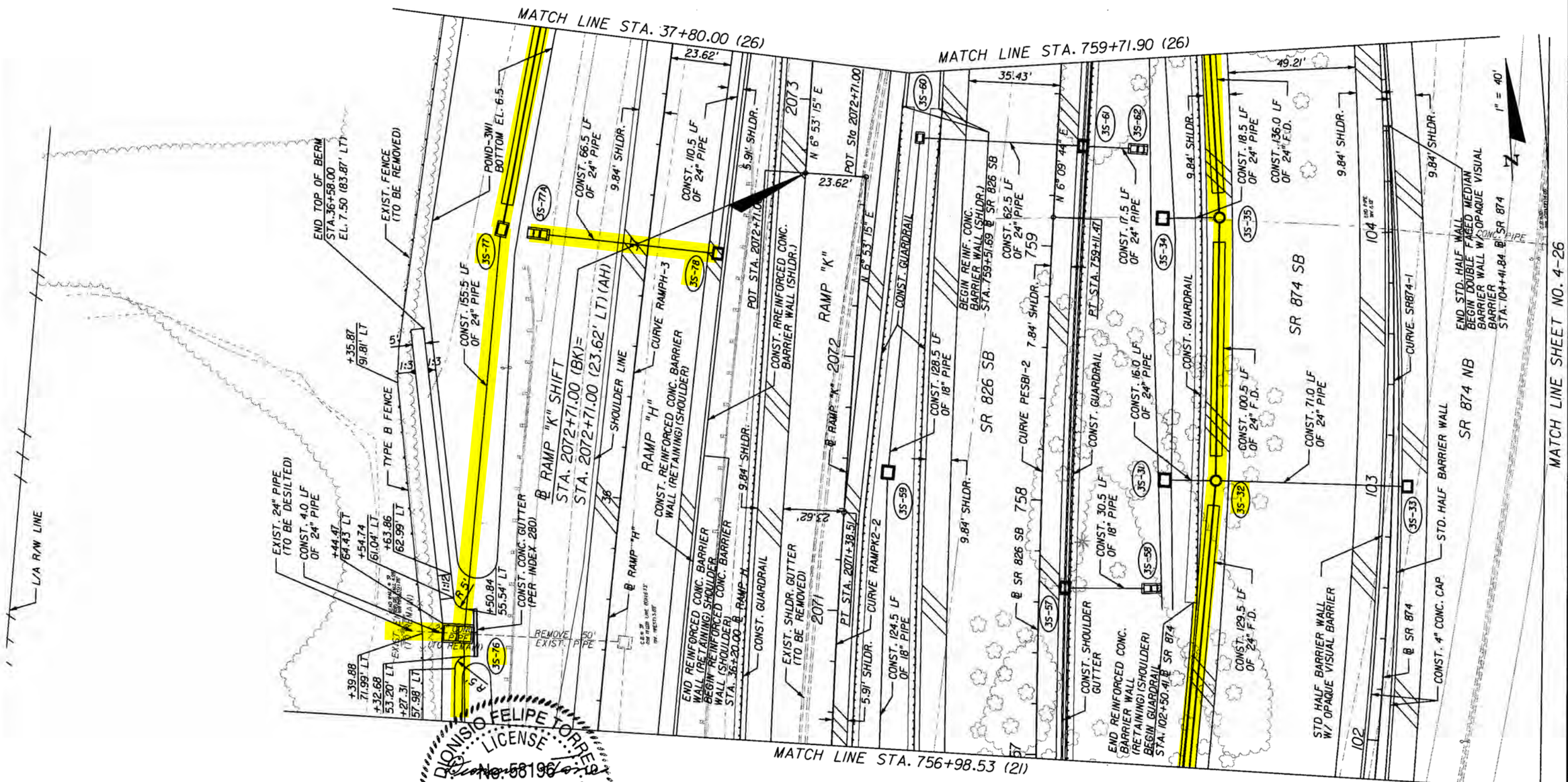
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (21)

SHEET NO. 4-23



LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

RELEASED FOR CONSTRUCTION

S.R. 826

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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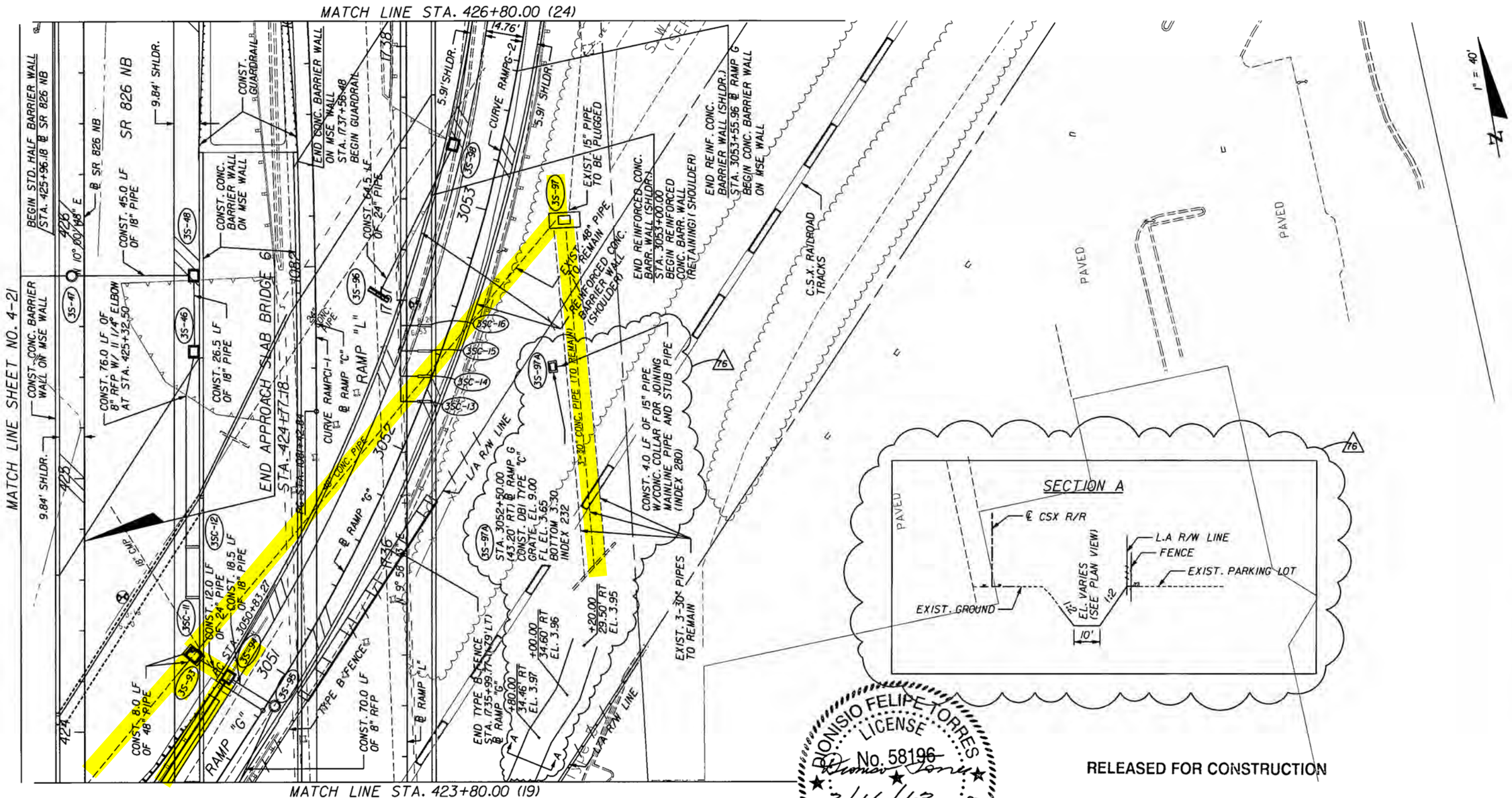
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (22)

SHEET NO. 4-24



RELEASED FOR CONSTRUCTION

LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

S.R. 826

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2/16/2012	16 STRUCTURE 35-97A WAS ADDED AND REGRADE SWALE TO REESTABLISH HISTORICAL DRAINAGE PATTERN.		

bec engineering

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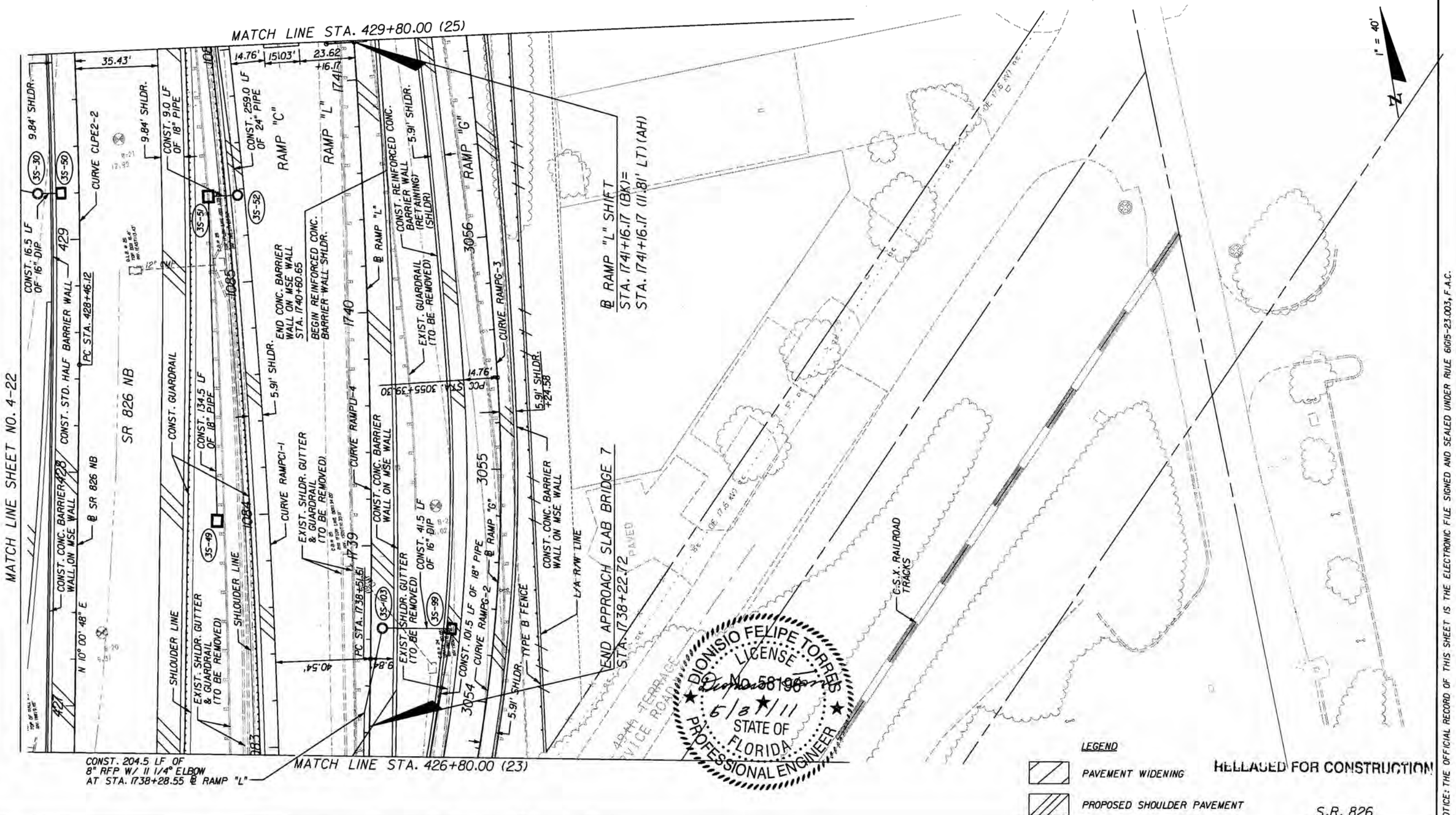
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (23)

SHEET NO. 4-25

$USER$ $DATE$ $TIME$ $FILE$



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bac engineering

DIONISIO FELIPE TORRES, P.E.
P.E. License No. 58196

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Miami, Florida 33156
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Fax: (305) 670-2351
Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (24)

SHEET NO. 4-26

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2/16/12	76 EXTENDED DOUBLE FACED GUARDRAIL ALONG RIGHT SIDE OF RAMP "C"		

engineering

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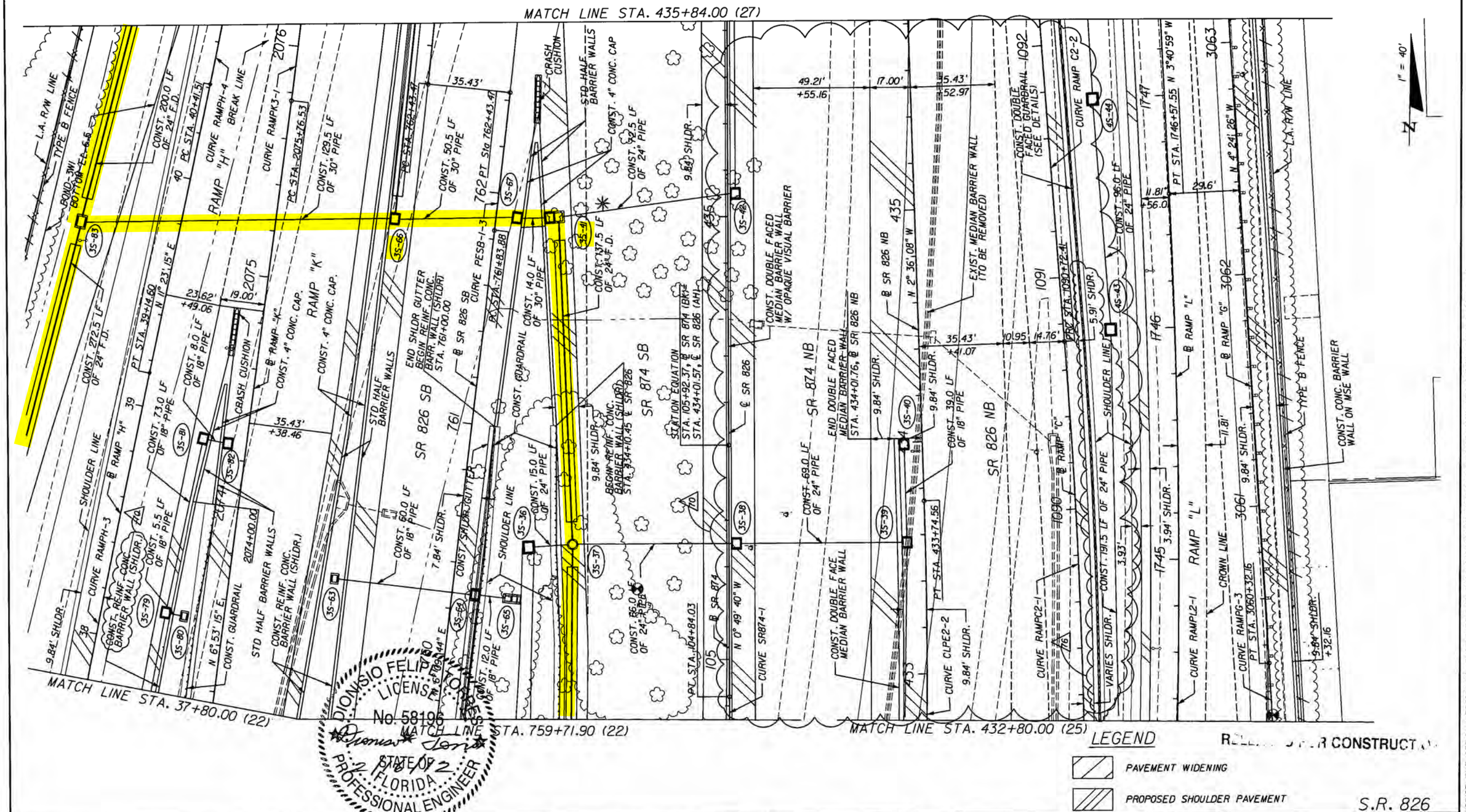
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (25)

SHEET NO. 4-27

$USER$ $DATE$ $TIME$ $FILE$



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	70 ROADWAY CHANGES DUE TO SIGN STRUCTURES. MODIFICATION TO HALF SPAN.		
2/16/12	76 EXTENDED DOUBLE FACED GUARDRAIL ALONG RIGHT SIDE OF RAMP "C"		

engineering
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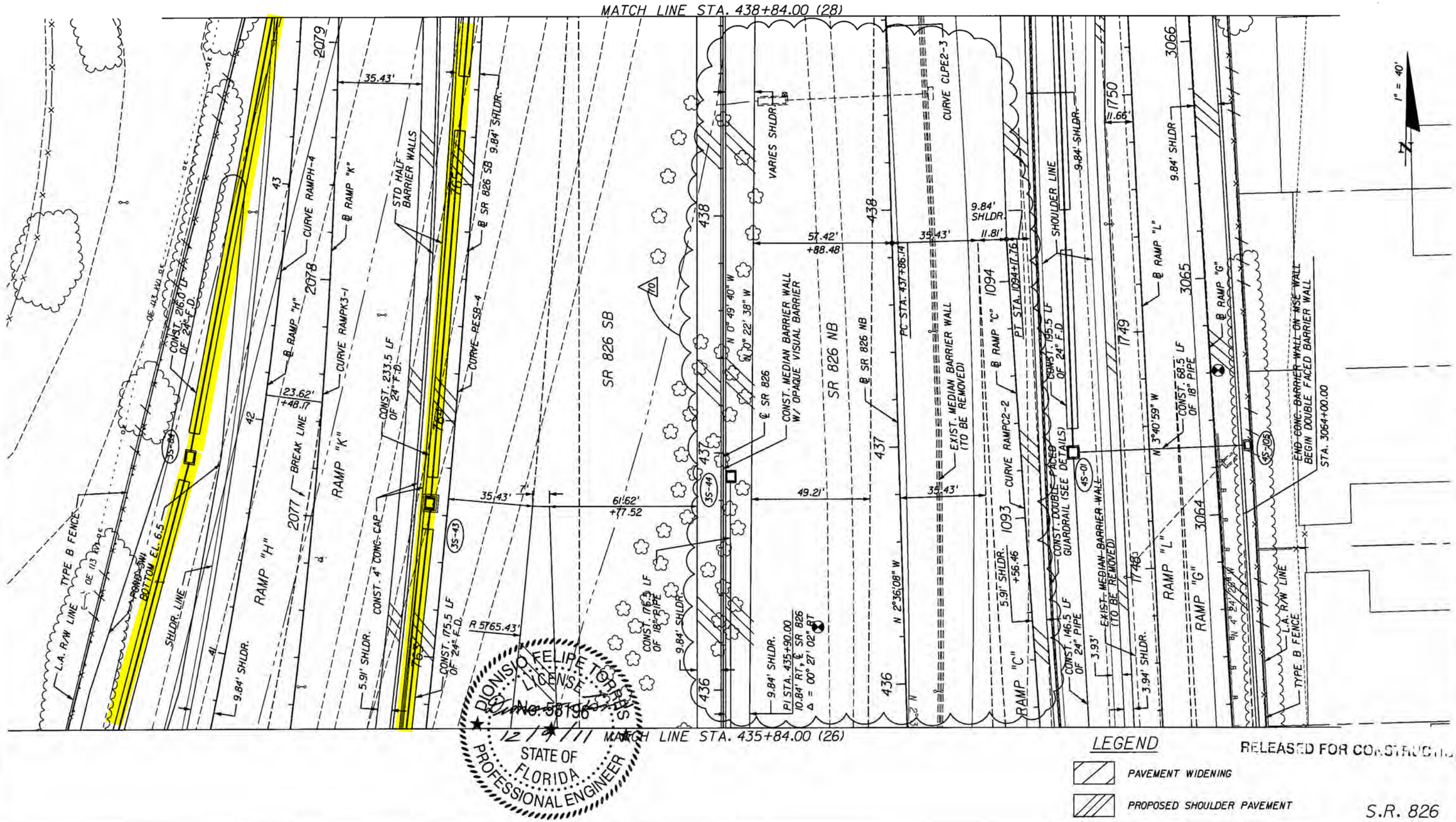
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (26)

SHEET NO. 4-28

$USER$ $DATE$ $TIME$ $FILE$



LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

RELEASED FOR CONSTRUCTION

S.R. 826

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	10 ROADWAY CHANGES DUE TO SIGN STRUCTURES. MODIFICATION TO HALF SPAN.		

bc engineering

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STATE OF FLORIDA
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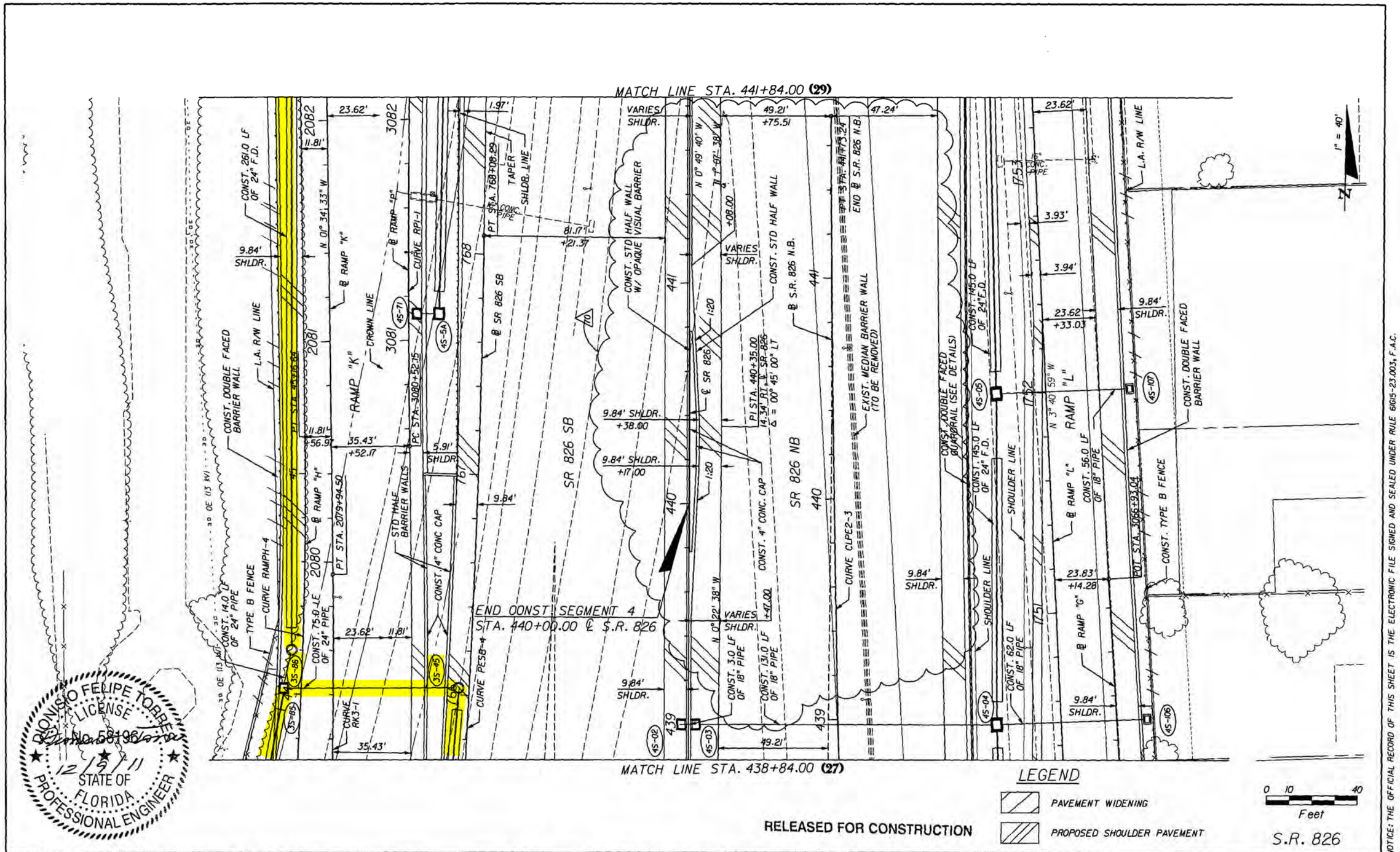
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (27)

SHEET NO. 4-29

$USER$ $DATE$ $TIME$ $FILE$



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	70 ROADWAY CHANGES DUE TO SIGN STRUCTURES. MODIFICATION TO HALF SPAN.		

bcc engineering

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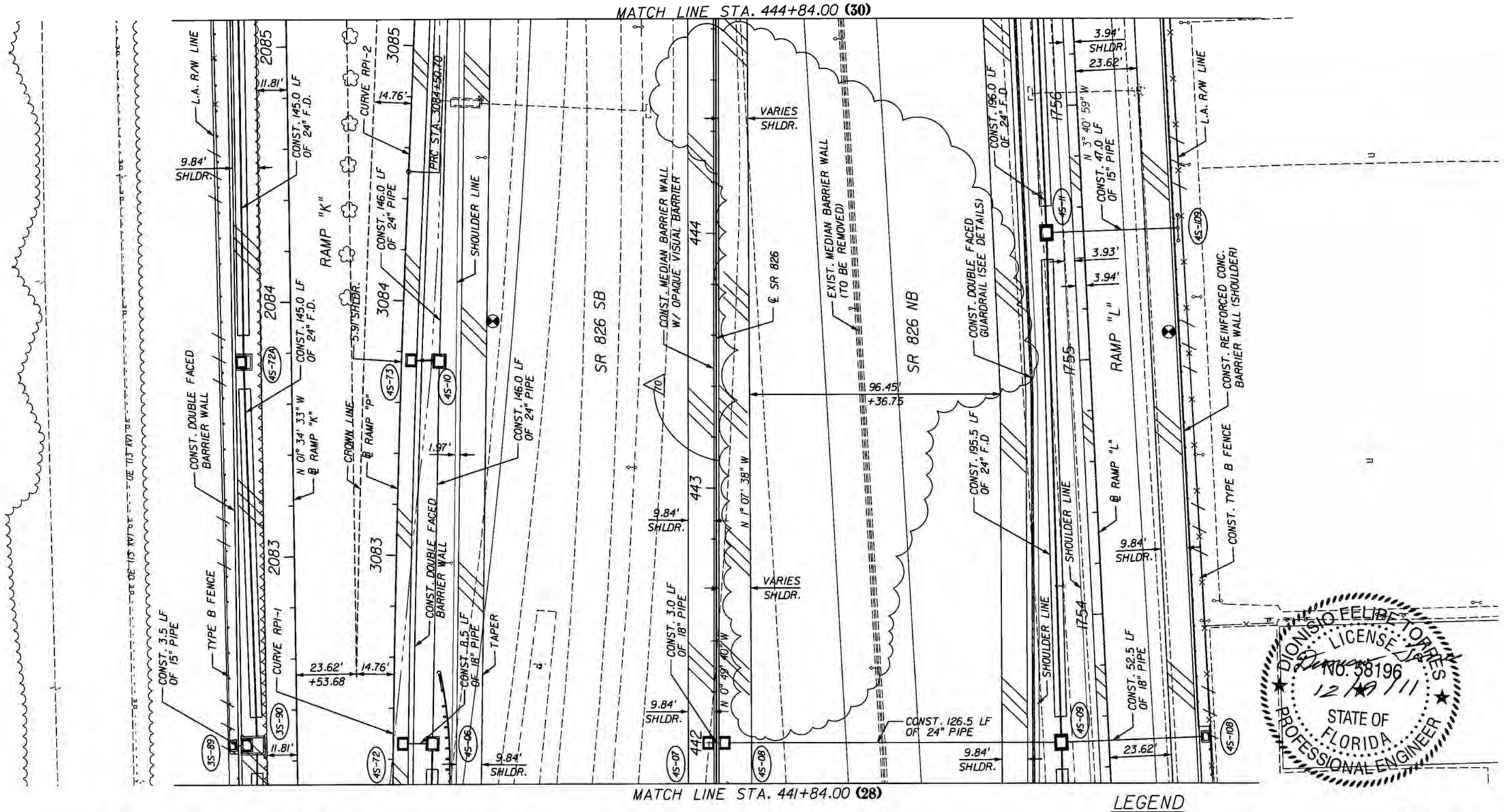
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

$USER$ $DATE$ $TIME$ $FILE$

ROADWAY PLANS (28)

SHEET NO. 4-30



** THIS PLAN SHEET IS BEING PROVIDED FOR INFORMATION ONLY AND TO ASSIST THE REVIEWER IN THE REVIEW OF THE DRAINAGE DESIGN. THIS SHEET HAS BEEN SUBMITTED AT AN EARLIER DATE AS PART OF THE SEGMENT 5 ROADWAY PLANS.

RELEASED FOR CONSTRUCTION

LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

0 10 40
Feet

S.R. 826

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	70 ROADWAY CHANGES DUE TO SIGN STRUCTURES. MODIFICATION TO HALF SPAN.		

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (29)

SHEET NO. **

$USER$ $DATE$ $TIME$ $FILE$

1" = 40'

N

L/A R/W LINE

BEGIN GUARDRAIL
BEGIN SHOULDER
BEGIN SHOULDER GUTTER
CONNECT TO EXIST. SHOULDER
CONNECT TO EXIST. CONC. BARRIER WALL
STA. 71+41.21, (45.93' LT),
@ SR 874

70

BEGIN MILLING, OVERBUILD
& RESURFACING,
BEGIN WIDENING
STA 71+73.04
CONN. TO EXIST. PAVT.

CONNECT TYPE K TEMP. CONC. BARRIER
WALL TO EXISTING BRIDGE MEDIAN
TRAFFIC RAILING
PER STANDARD INDEX

CONST. SHOULDER GUTTER
AND GUARDRAIL

EXIST. GUARDRAIL
(TO BE REMOVED)

3AS-IC

℄ MILLER

79

80

MILLER DR. 70

SR 874 SB

69

71

72

EXIST. PAVT.
(TO BE MILLED
AND RESURFACED)

23.01'

TEMP. CONC.
BARRIER WALL

℄ SR 874

POT STA. 68+89.75

N 41 53 29 E

EXIST. BARRIER WALL
(TO BE REMOVED)

EXIST. BRIDGE

EXIST. PAVT.
(TO BE MILLED,
OVERBUILD AND
RESURFACED)

23.52'

SR 874 NB

MATCH LINE STA. 73+00.00 (47)

EXIST. GUARDRAIL
(TO BE REMOVED)

82

BEGIN CONSTRUCTION
BEGIN SEGMENT 4
BEGIN TEMP. CONC. BARRIER WALL (TYPE K)
STA. 71+20.62

C.S.X. RAILROAD
TRACKS

STA. 72+74.86
BEGIN RETAINING WALL W/TRAFFIC
RAILING/SOUND BARRIER (14'-0")
L-SHAPED SPREAD FOOTING

DIONISIO FELIPE TORRES
LICENSE
No. 58196
12/9/11
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

BEGIN TEMP. CONC. BARRIER WALL
STA. 72+36.00 ± @ SR 874

LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

RELEASED FOR CONSTR

S.R. 874

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	70 UPDATED LABELS FOR TEMP. CONC. BARRIER WALL (TYPE K) AND SR 874 CONSTRUCTION		

engineering

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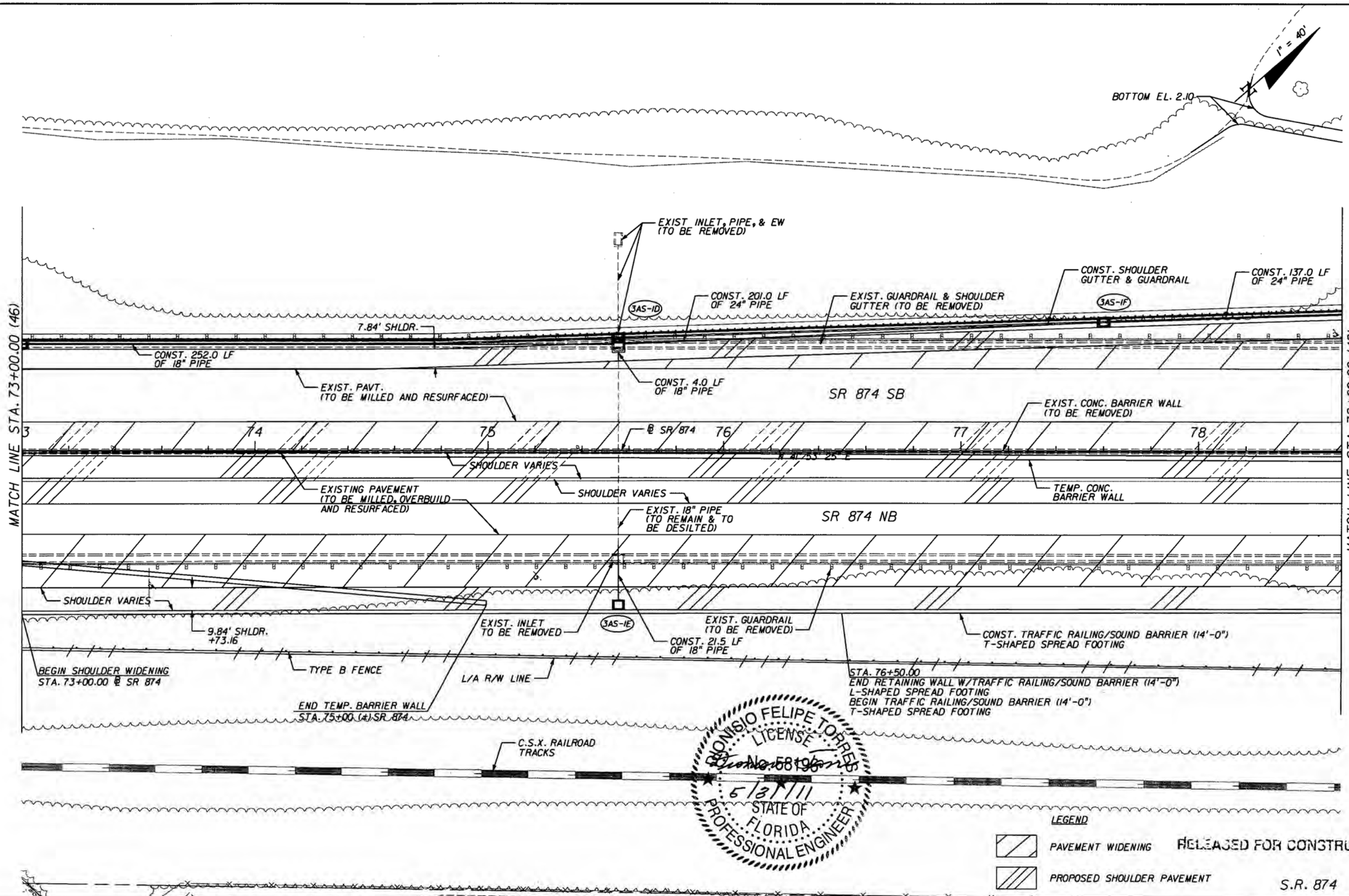
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (46)

SHEET NO.
4-31

$USER$ $DATE$ $TIME$ $FILE$



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REVISIONS			
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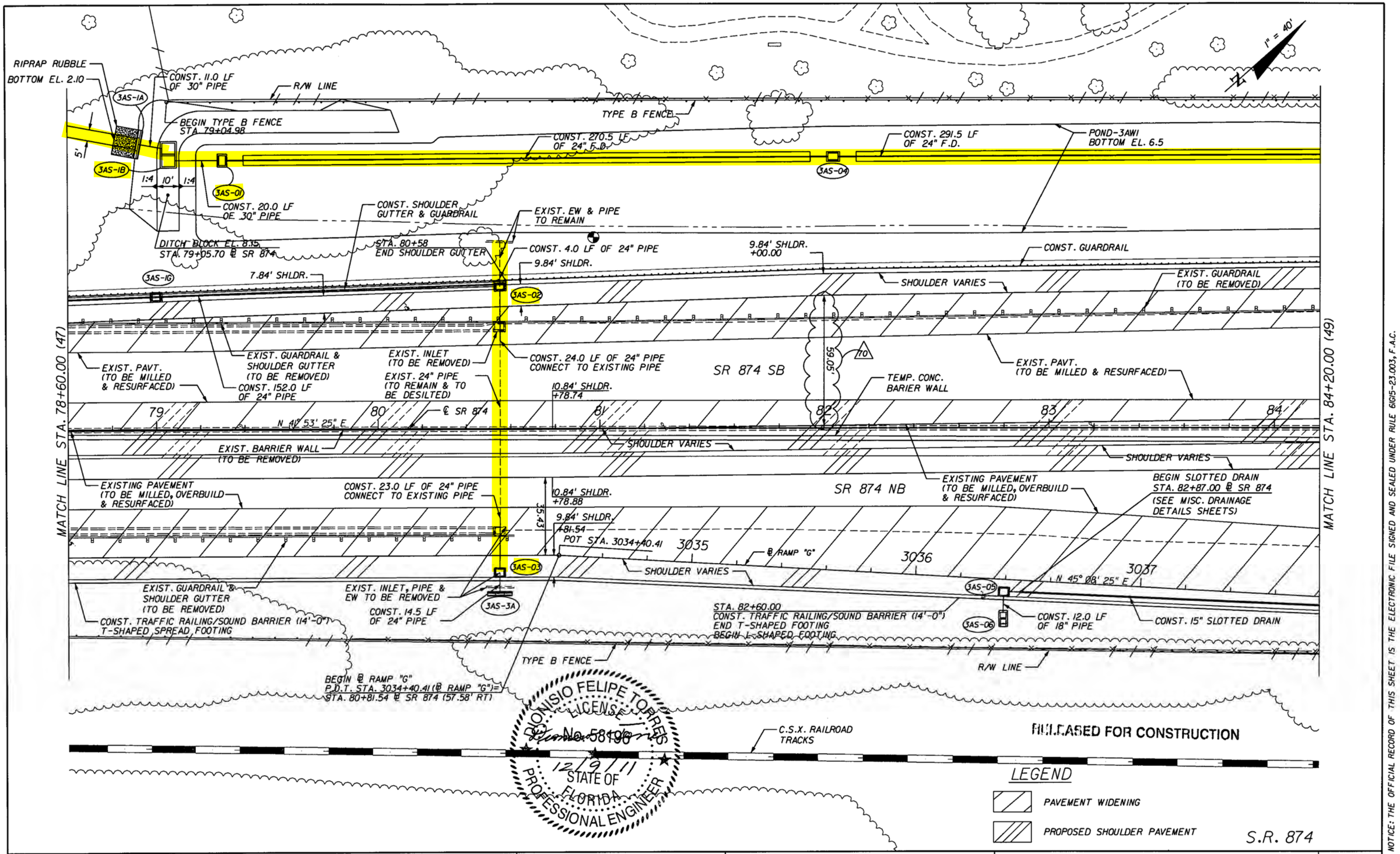
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (47)

SHEET NO. 4-32



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	70 DIMENSION LABEL		

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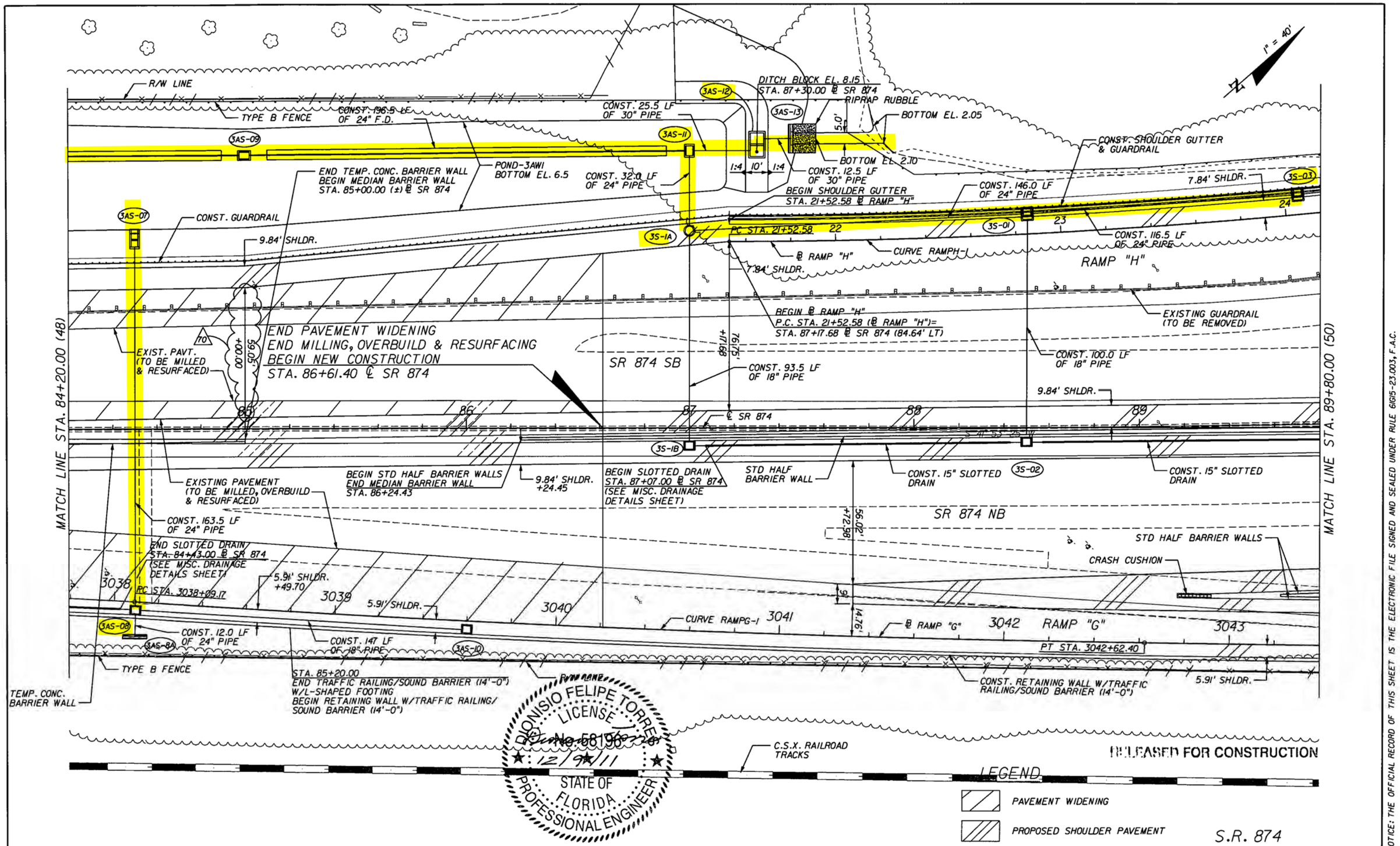
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (48)

SHEET NO. 4-33

$USER$ $DATE$ $TIME$ $FILE$



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/09/2011	70 DIMENSION LABEL		

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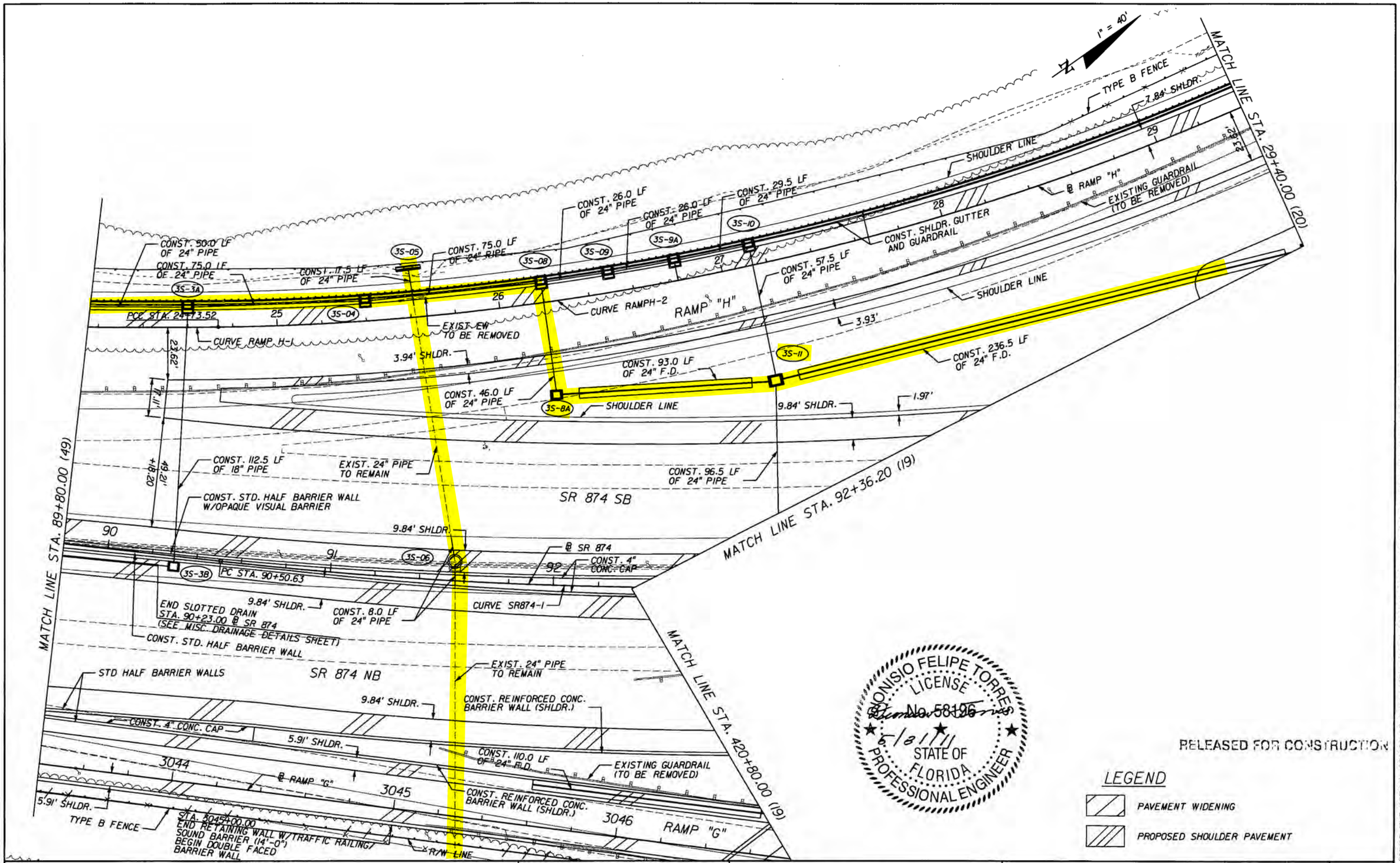
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (49)

SHEET NO. 4-34

$USER$ $DATE$ $TIME$ $FILE$



DIONISIO FELIPE TORRES LICENSE No. 58196 STATE OF FLORIDA PROFESSIONAL ENGINEER 6/8/11

RELEASED FOR CONSTRUCTION

LEGEND

PAVEMENT WIDENING

PROPOSED SHOULDER PAVEMENT

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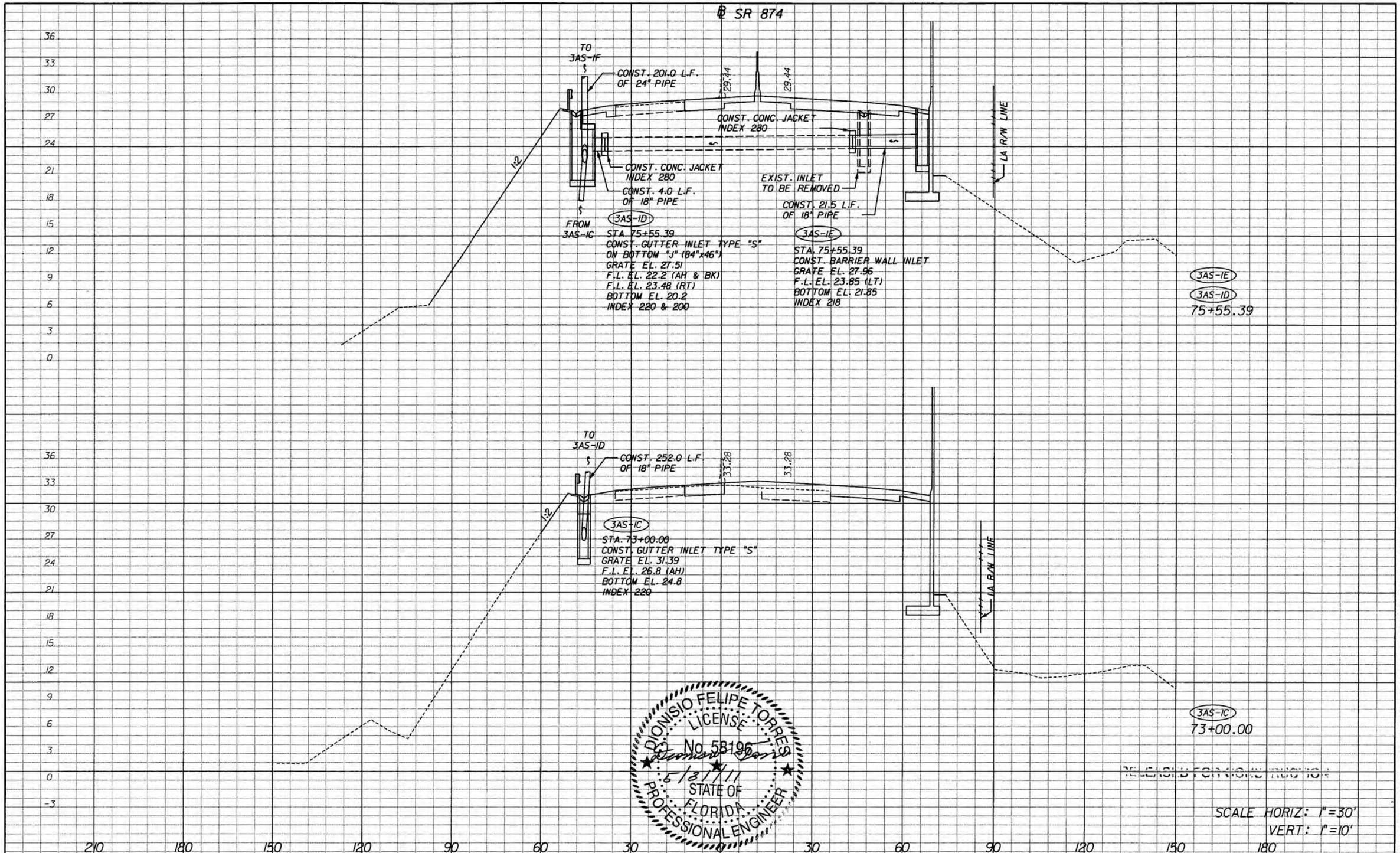
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

ROADWAY PLANS (50)

SHEET NO. 4-35



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-61

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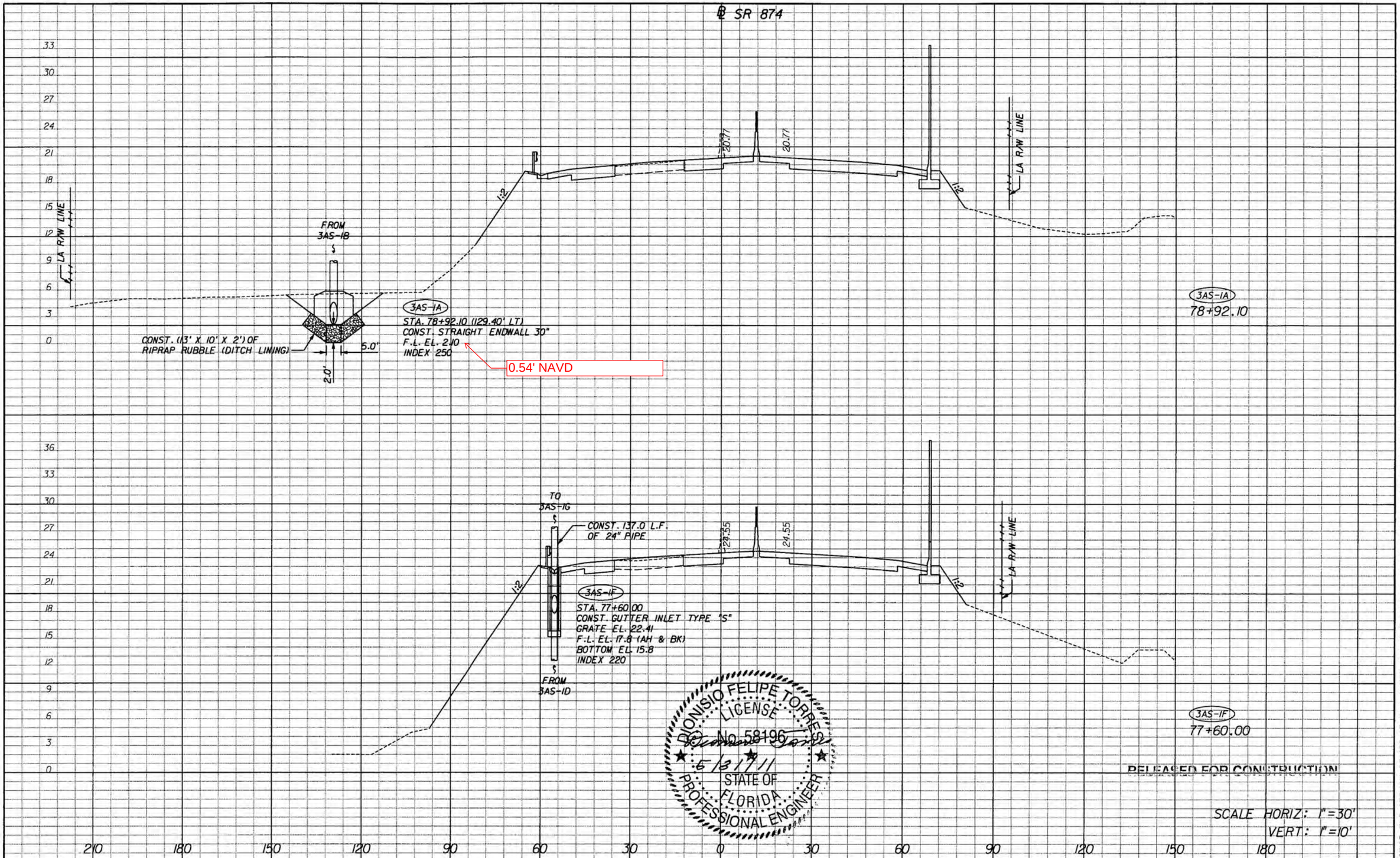

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-62

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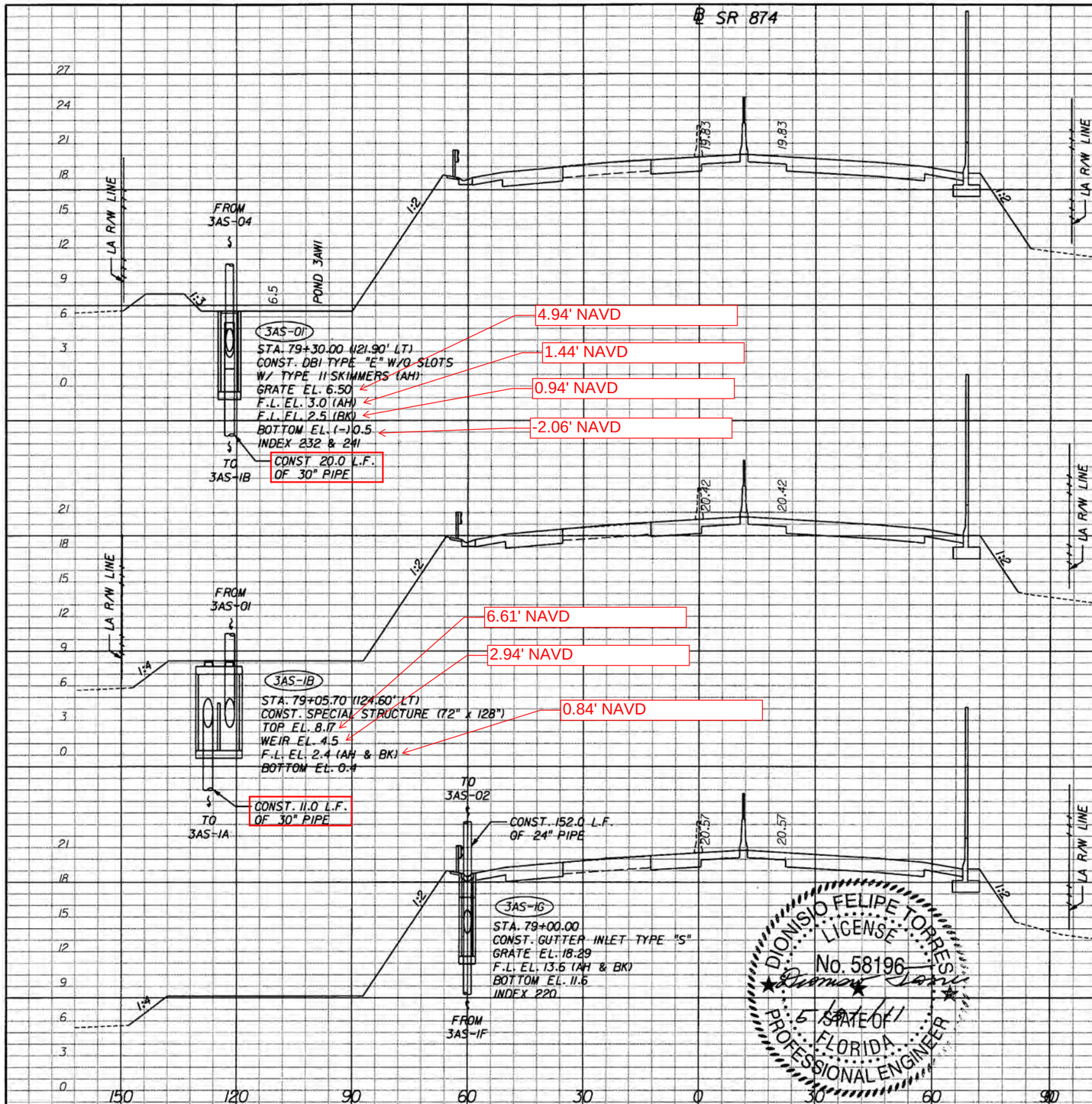
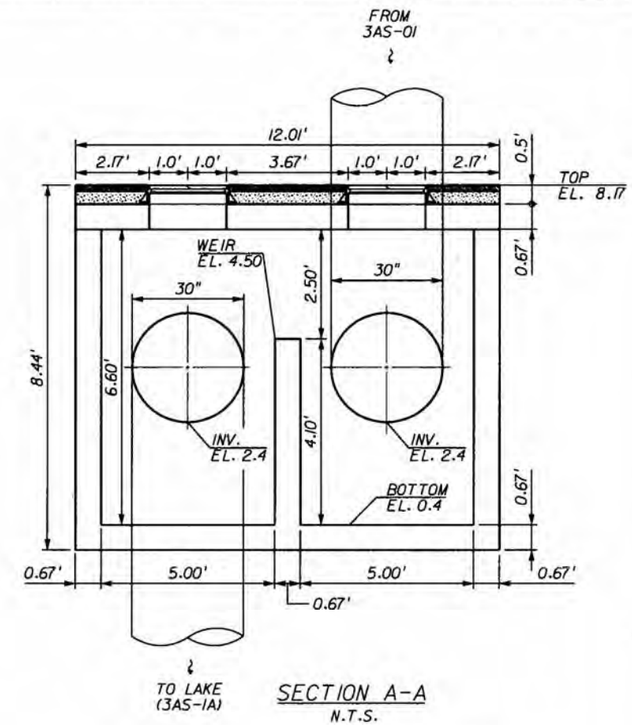
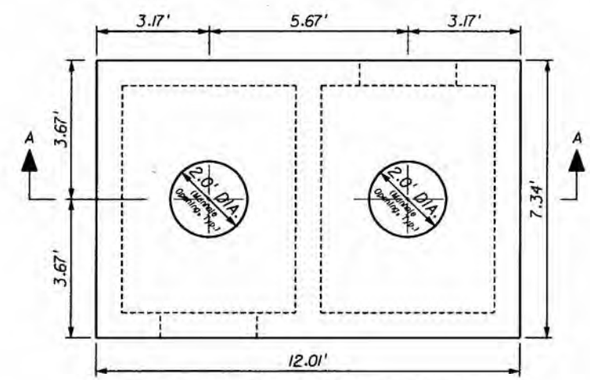




SECTION A-A
N.T.S.



TOP SLAB REINFORCING DETAIL, STRUCTURE 3AS-1B
N.T.S.

3AS-01
79+30.00

3AS-1B
79+05.70

3AS-1G
79+00.00

RELEASED FOR CONSTRUCTION

SCALE HORIZ: 1"=30'
VERT: 1"=10'

DIONISIO FELIPE TORRES LICENSE No. 58196 STATE OF FLORIDA PROFESSIONAL ENGINEER

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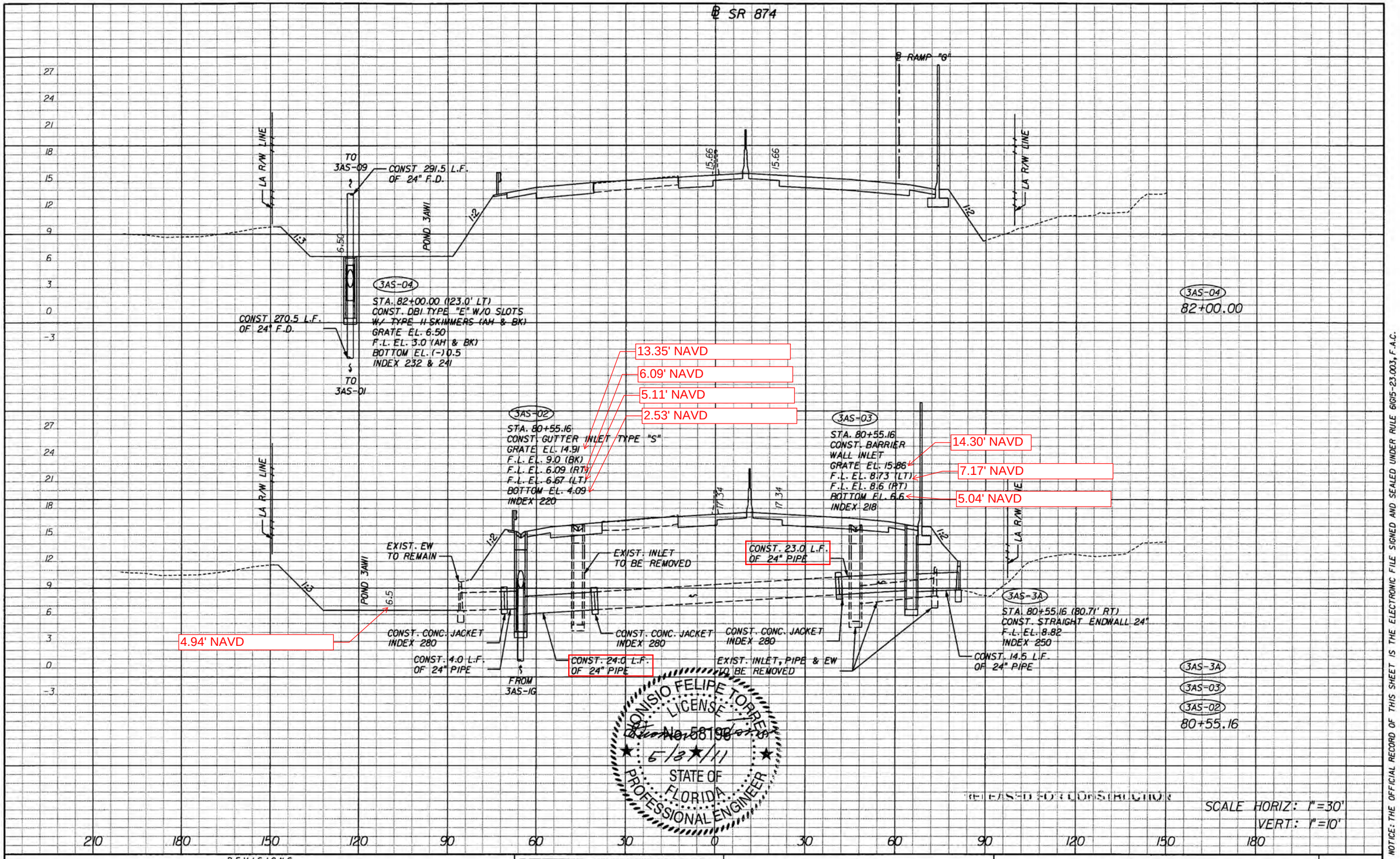
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-63



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REVISIONS			
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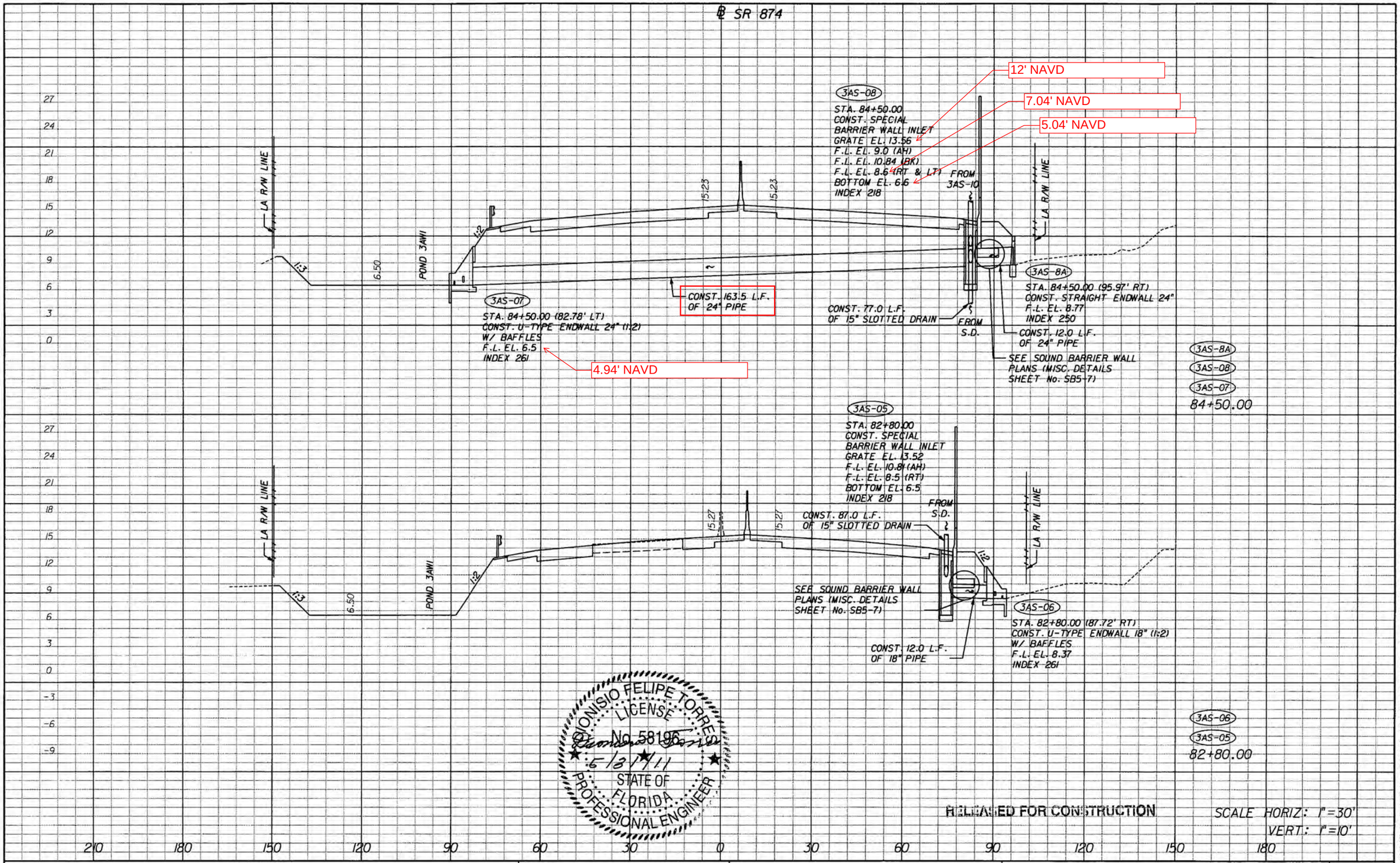
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-64



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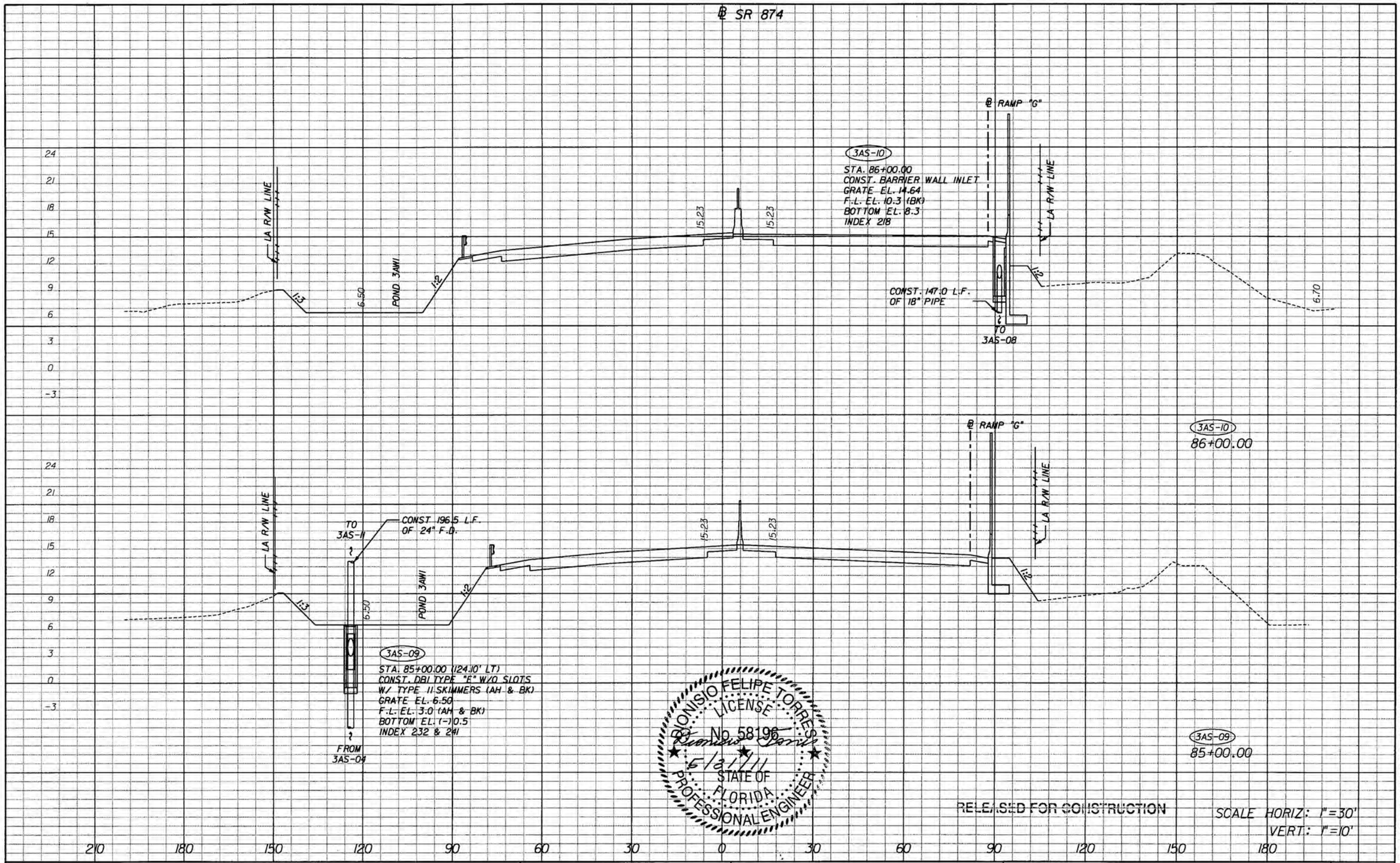
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-65



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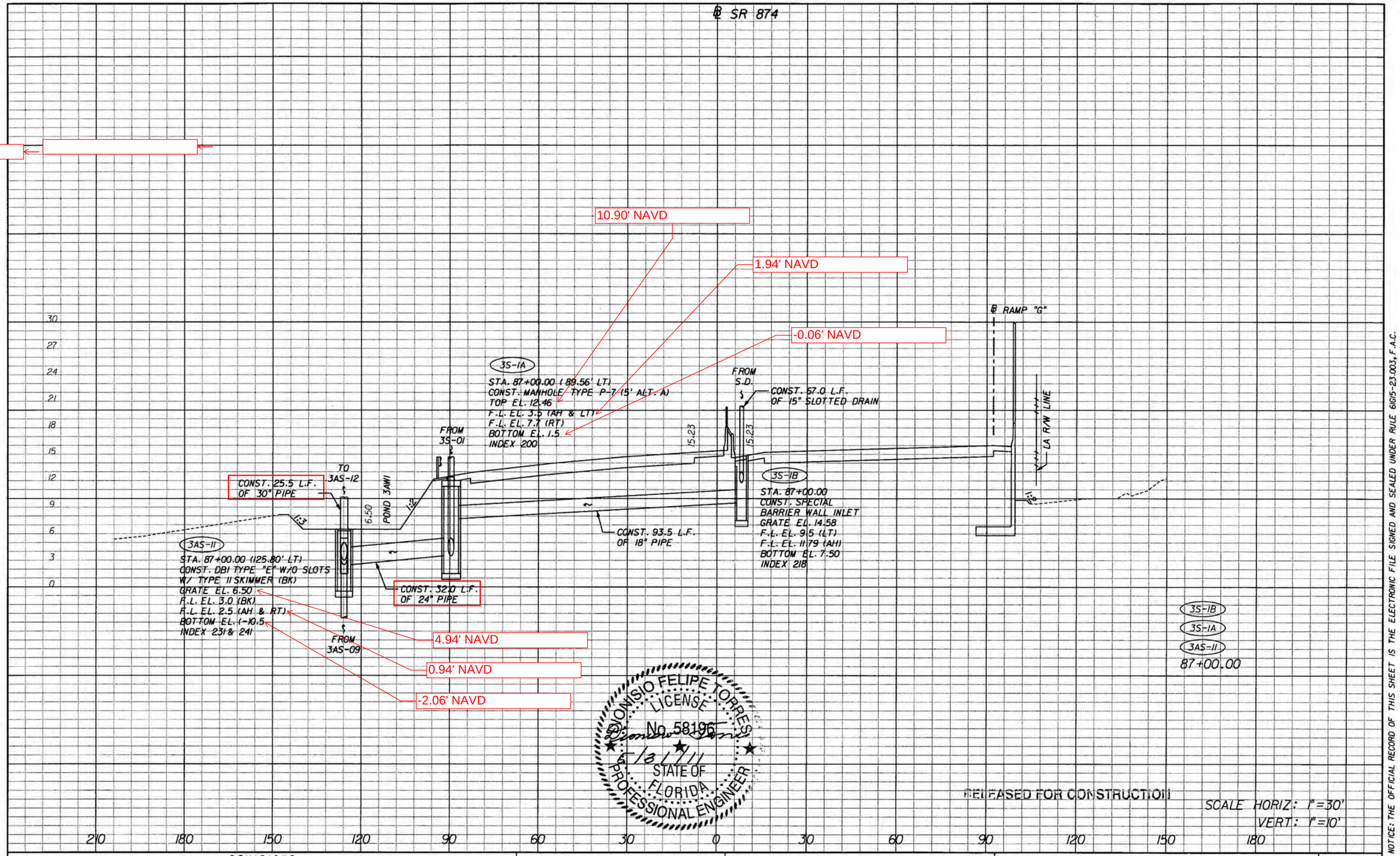
DRAINAGE STRUCTURES

SHEET NO.
4-66



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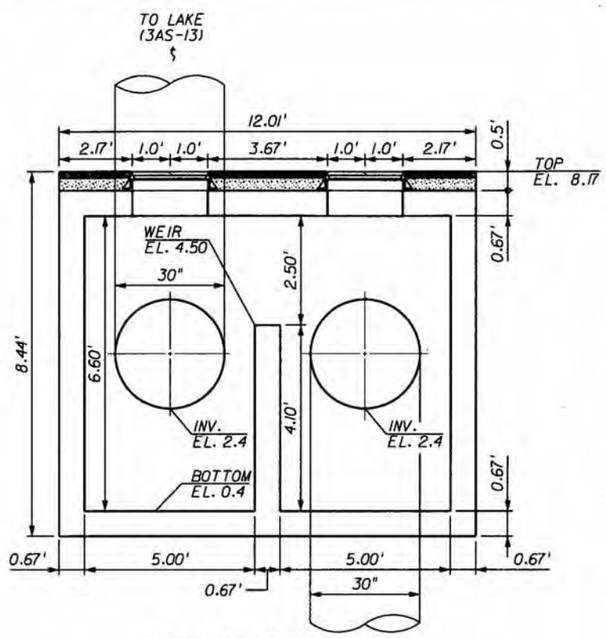
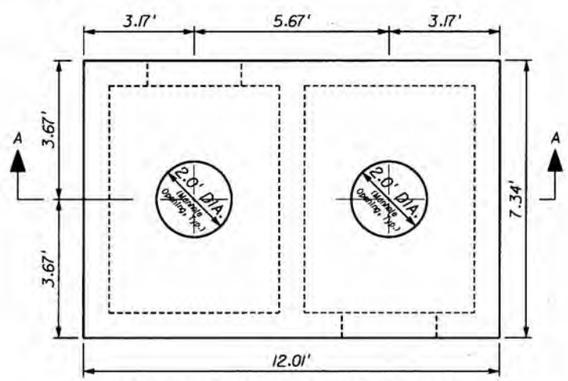
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

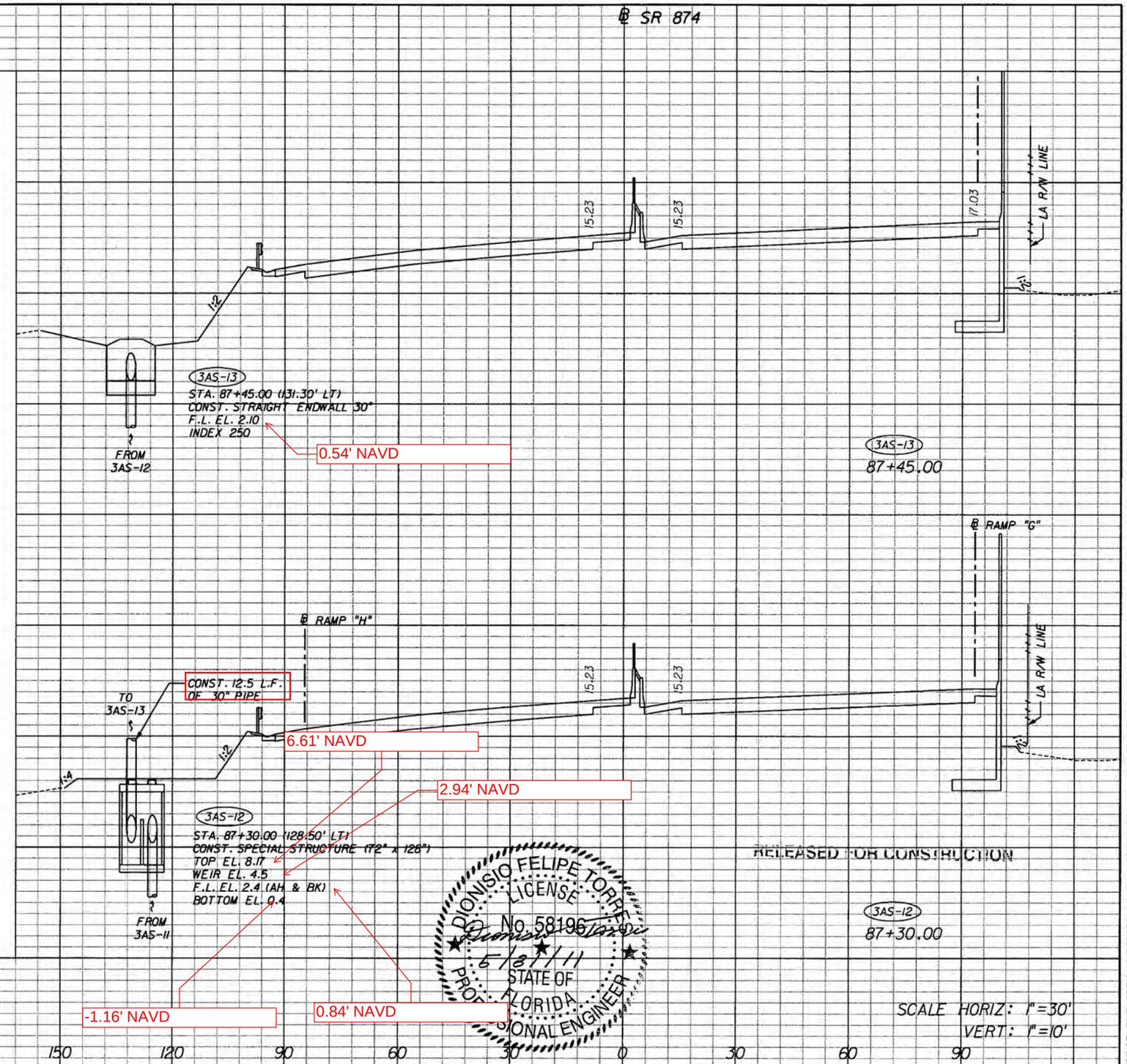
SHEET NO. 4-67



SECTION A-A
N.T.S.



TOP SLAB REINFORCING DETAIL,
STRUCTURE 3AS-12
N.T.S.



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5/26/11

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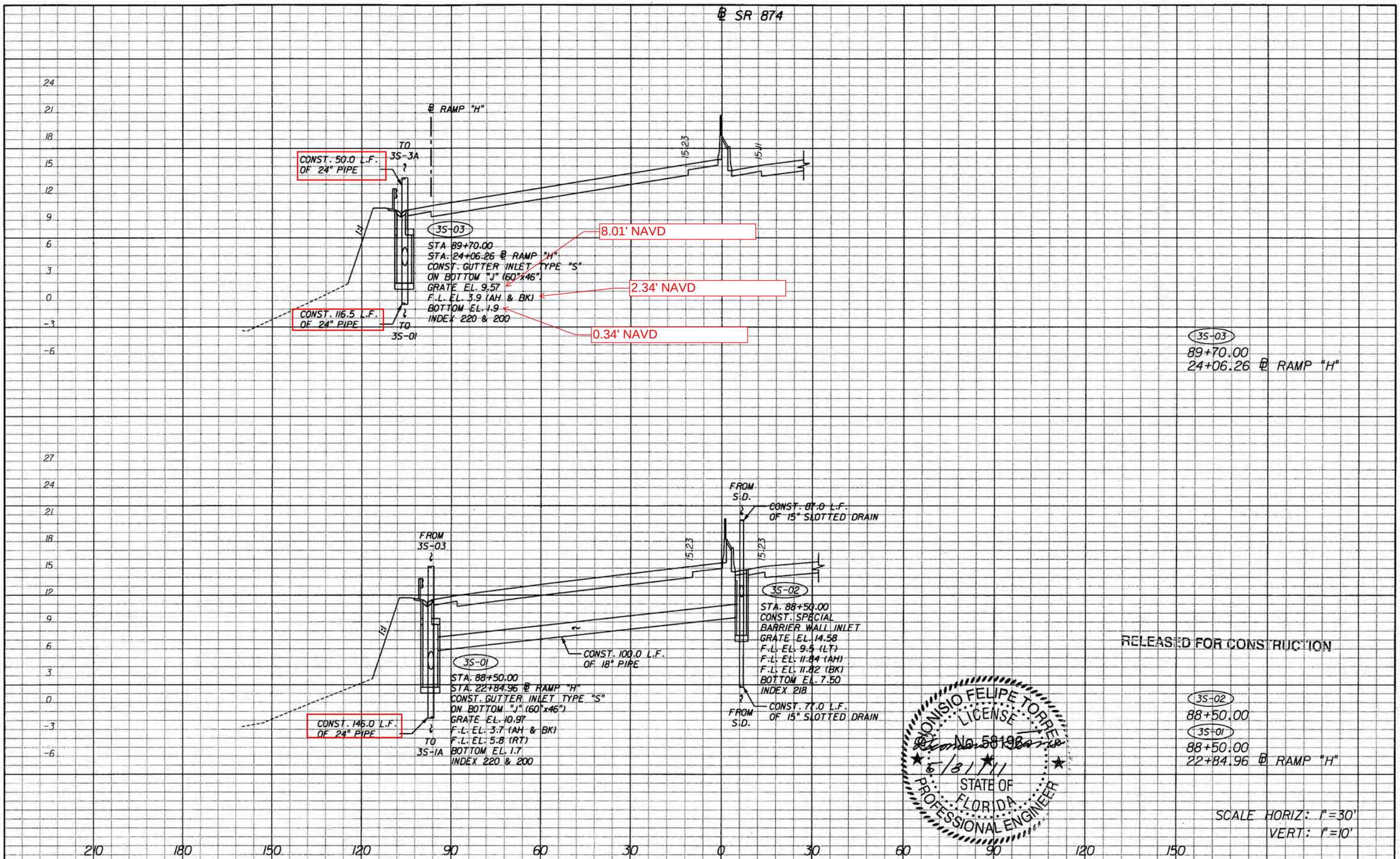
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-68



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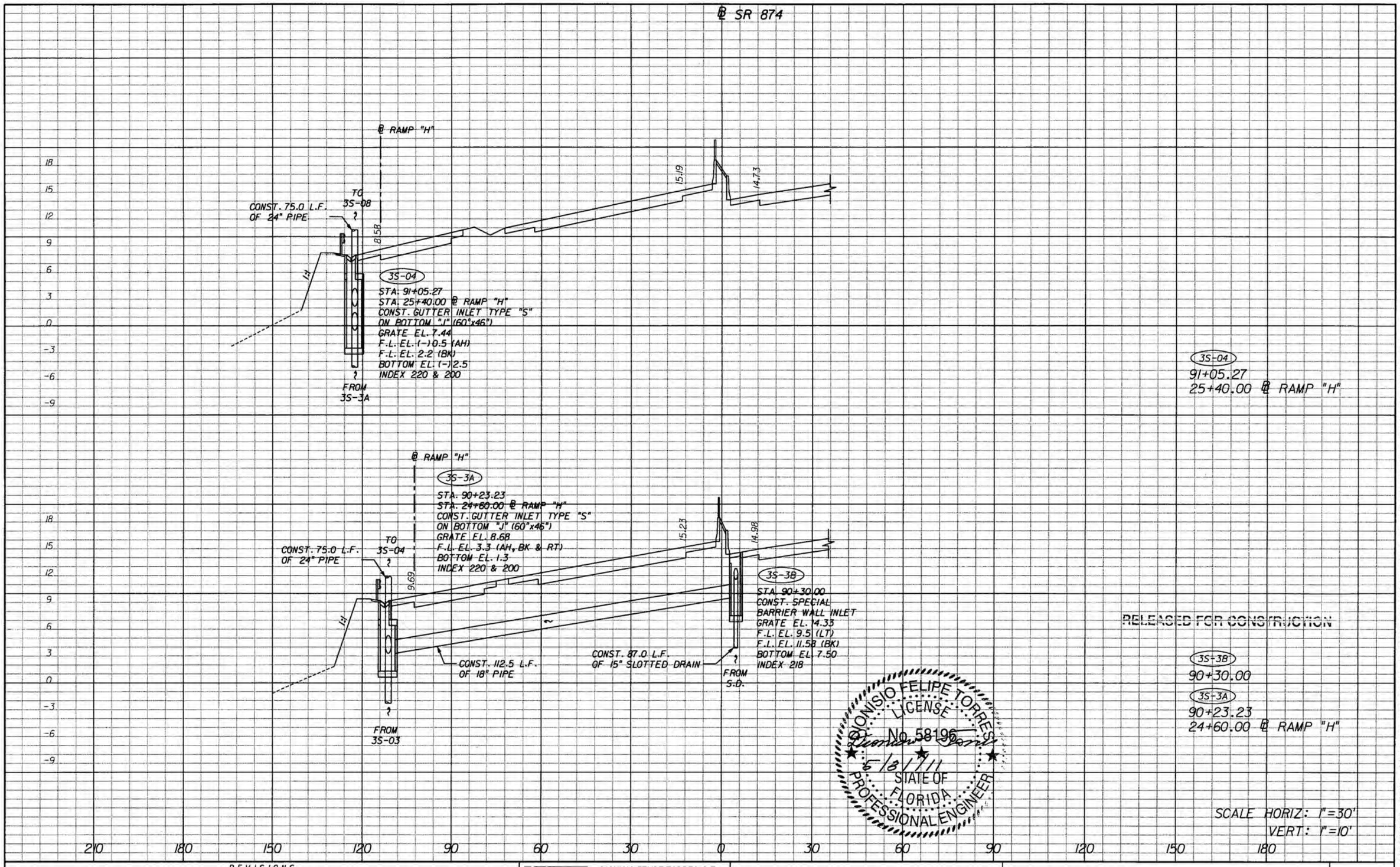
DRAINAGE STRUCTURES

SHEET NO. 4-69



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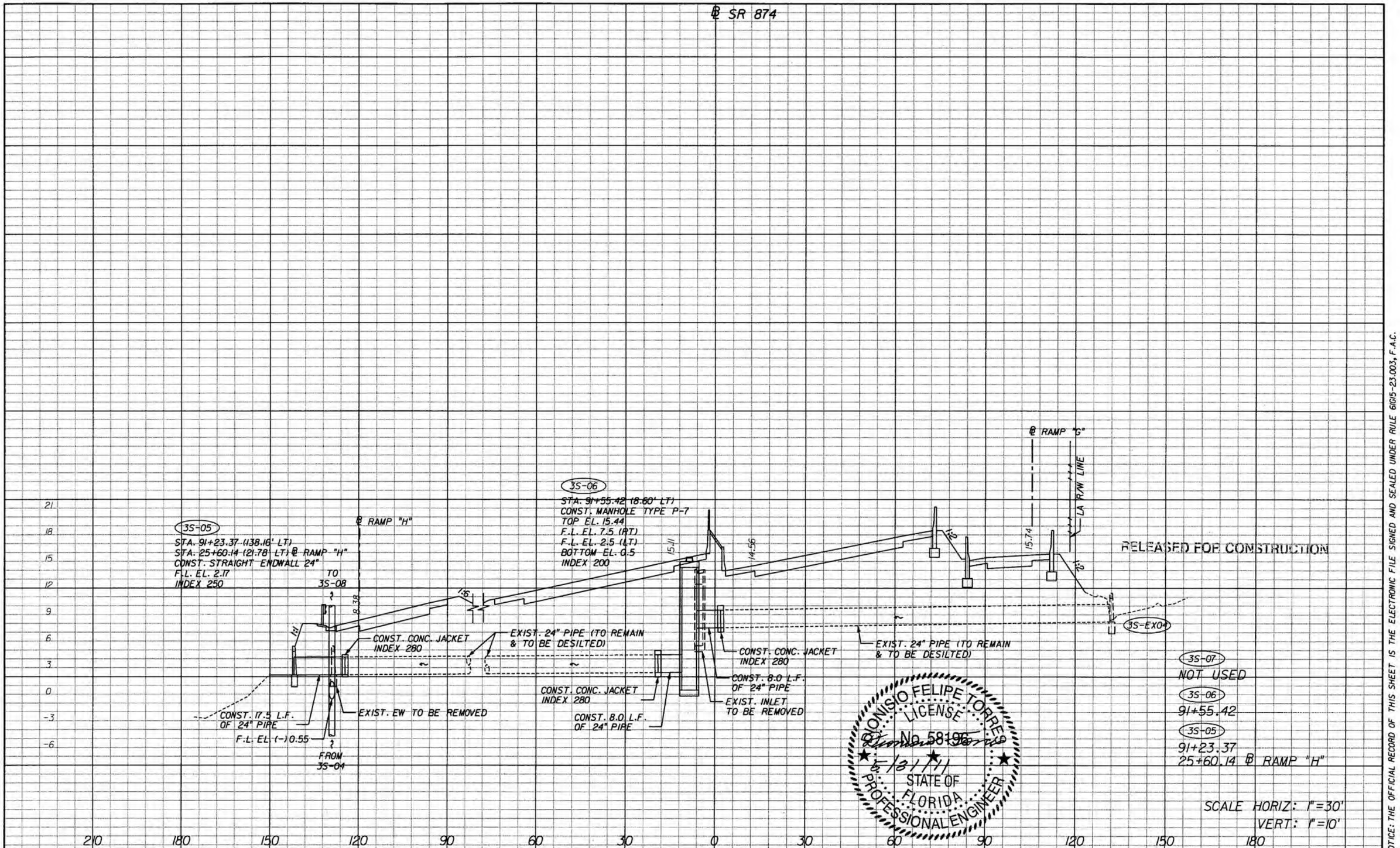
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-70



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DRAINAGE STRUCTURES

SHEET NO. 4-71

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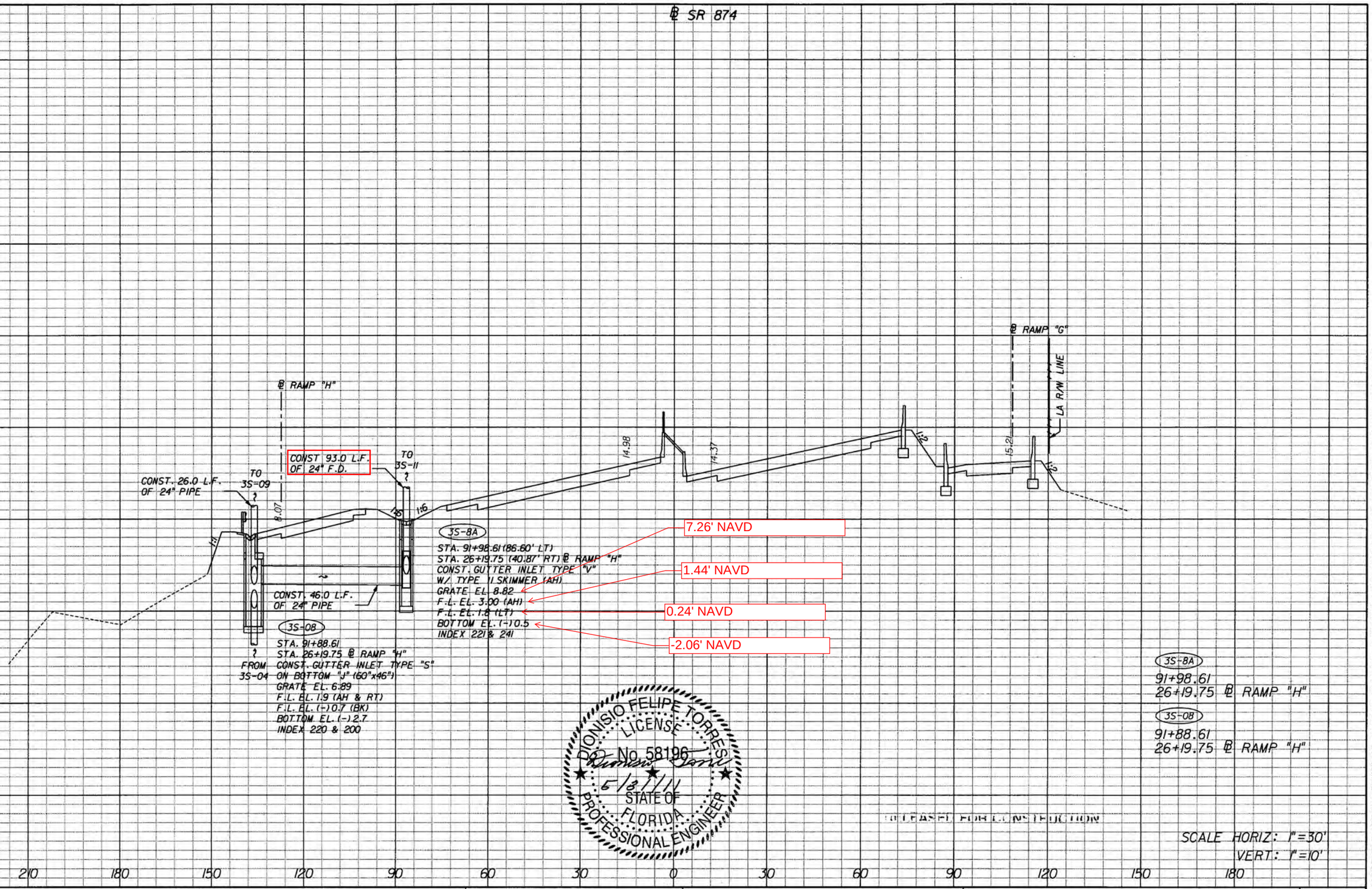

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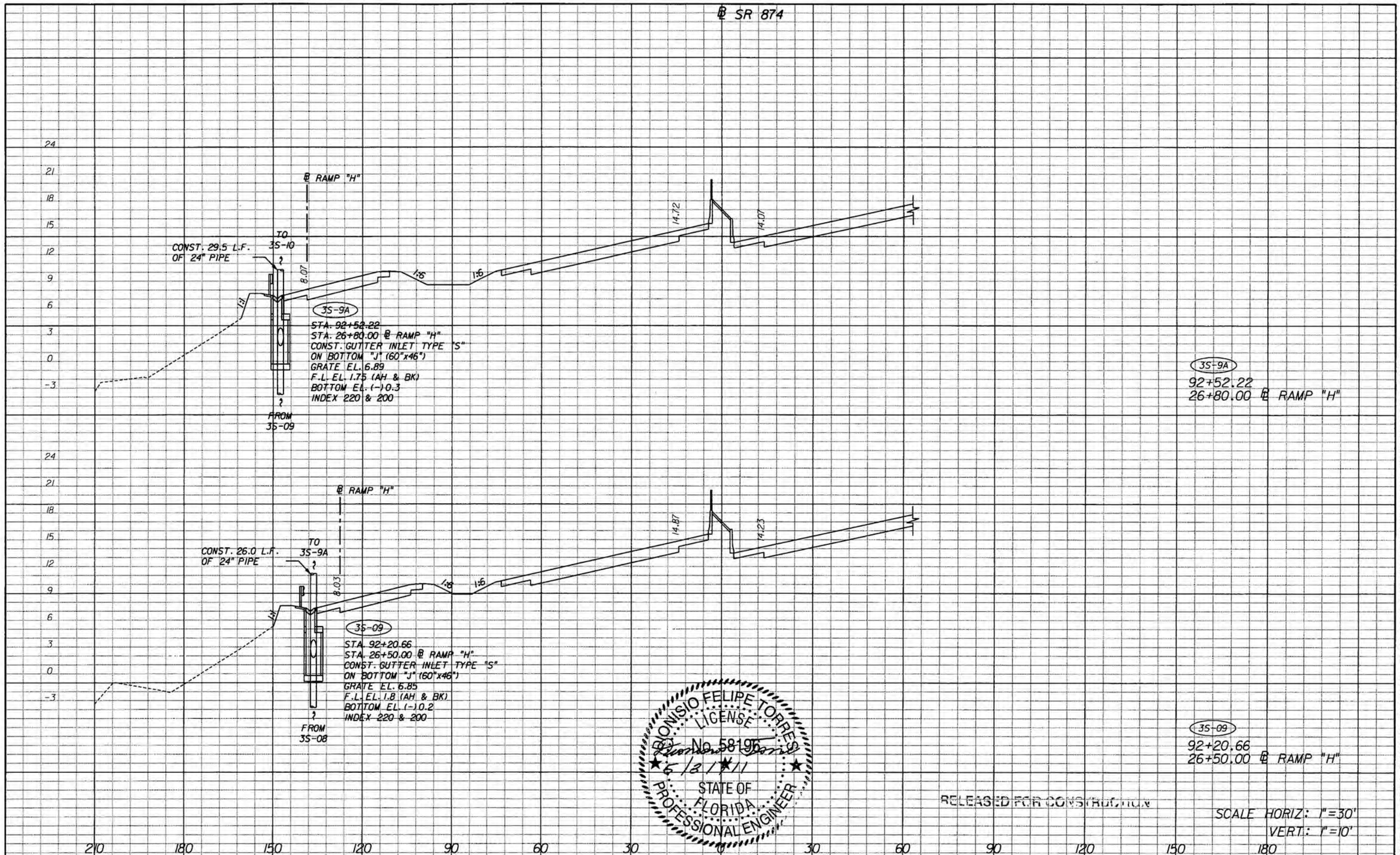
DRAINAGE STRUCTURES

SHEET NO. 4-72



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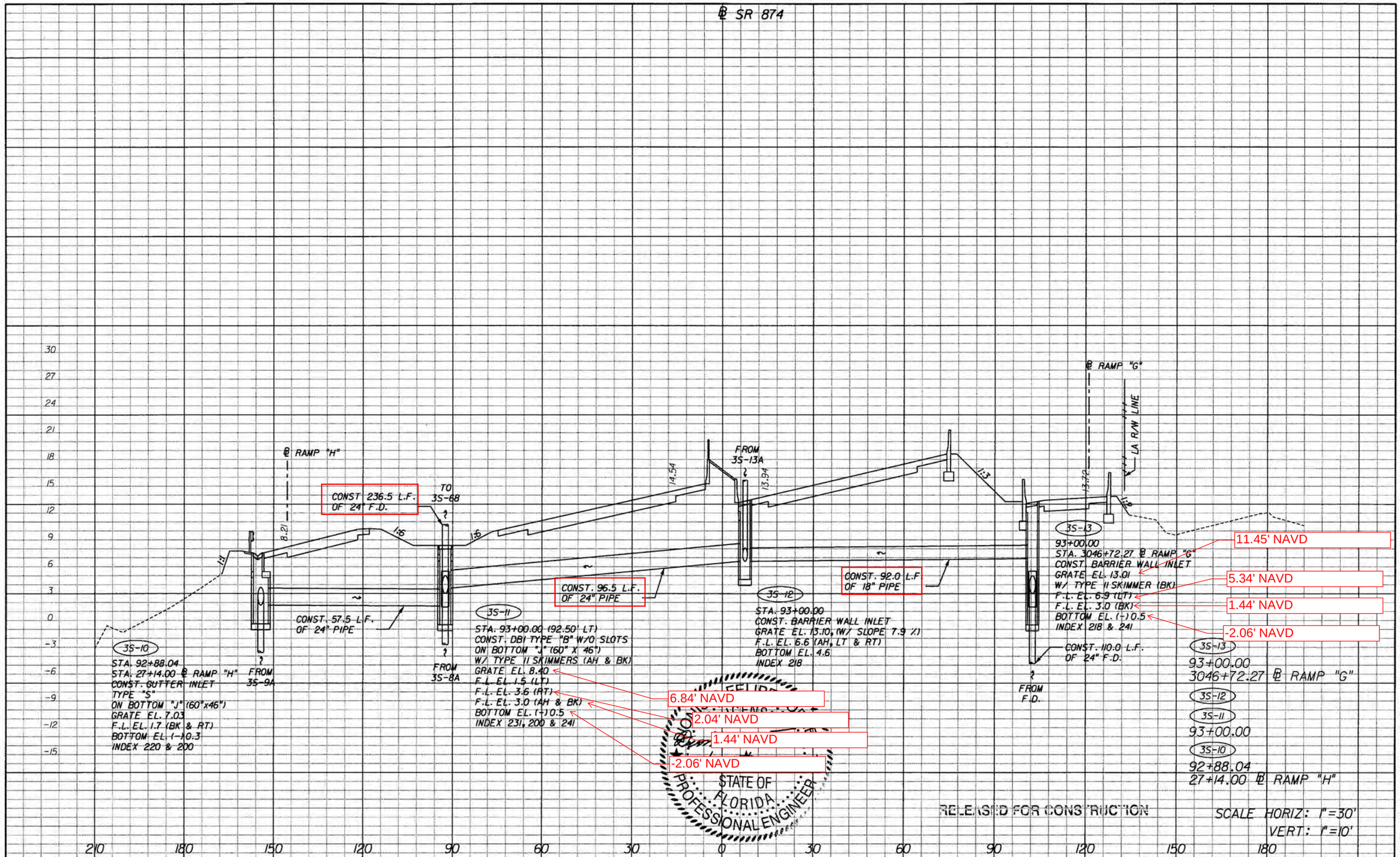
DRAINAGE STRUCTURES

SHEET NO. 4-73



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DRAINAGE STRUCTURES

SHEET NO.
4-74

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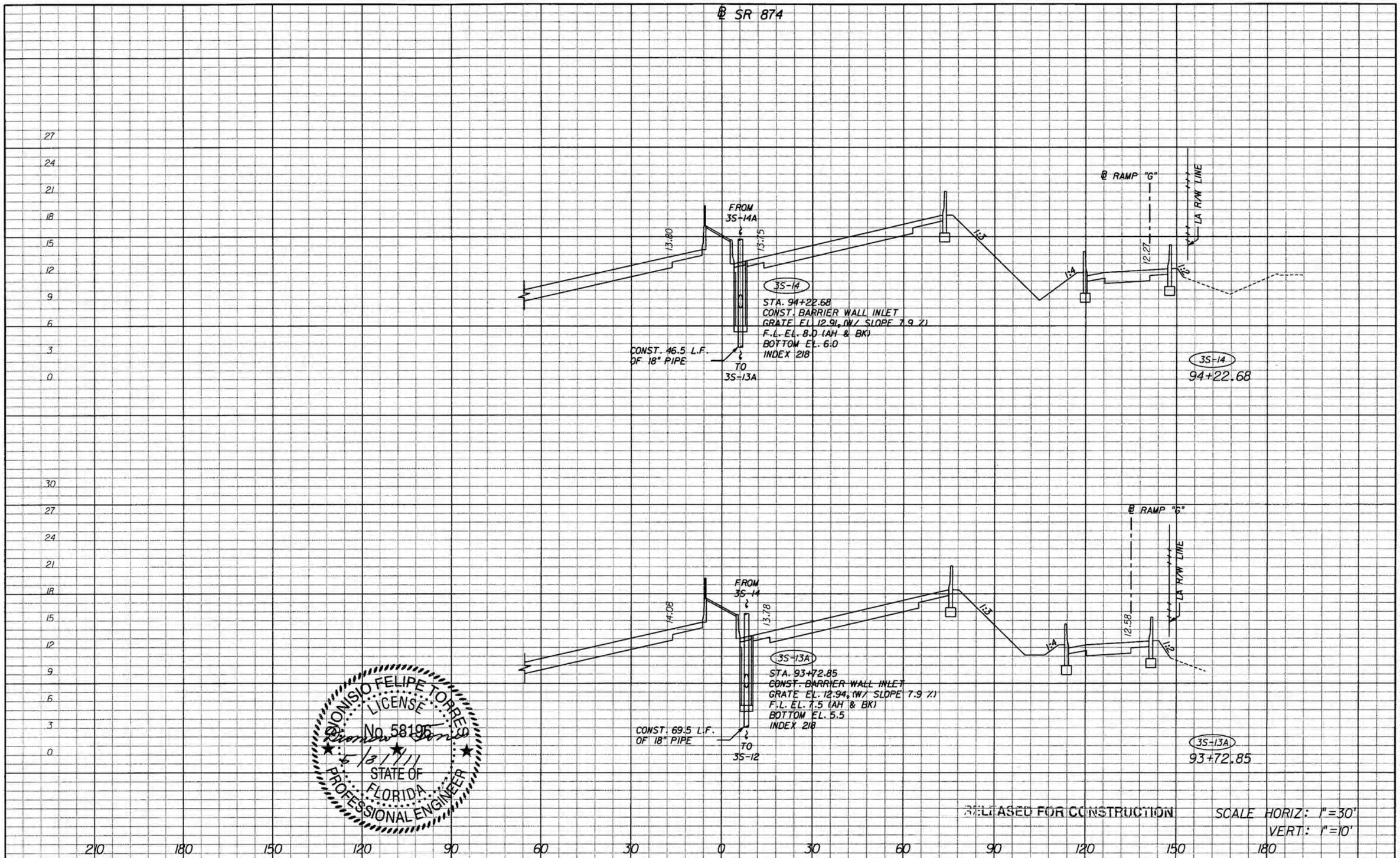

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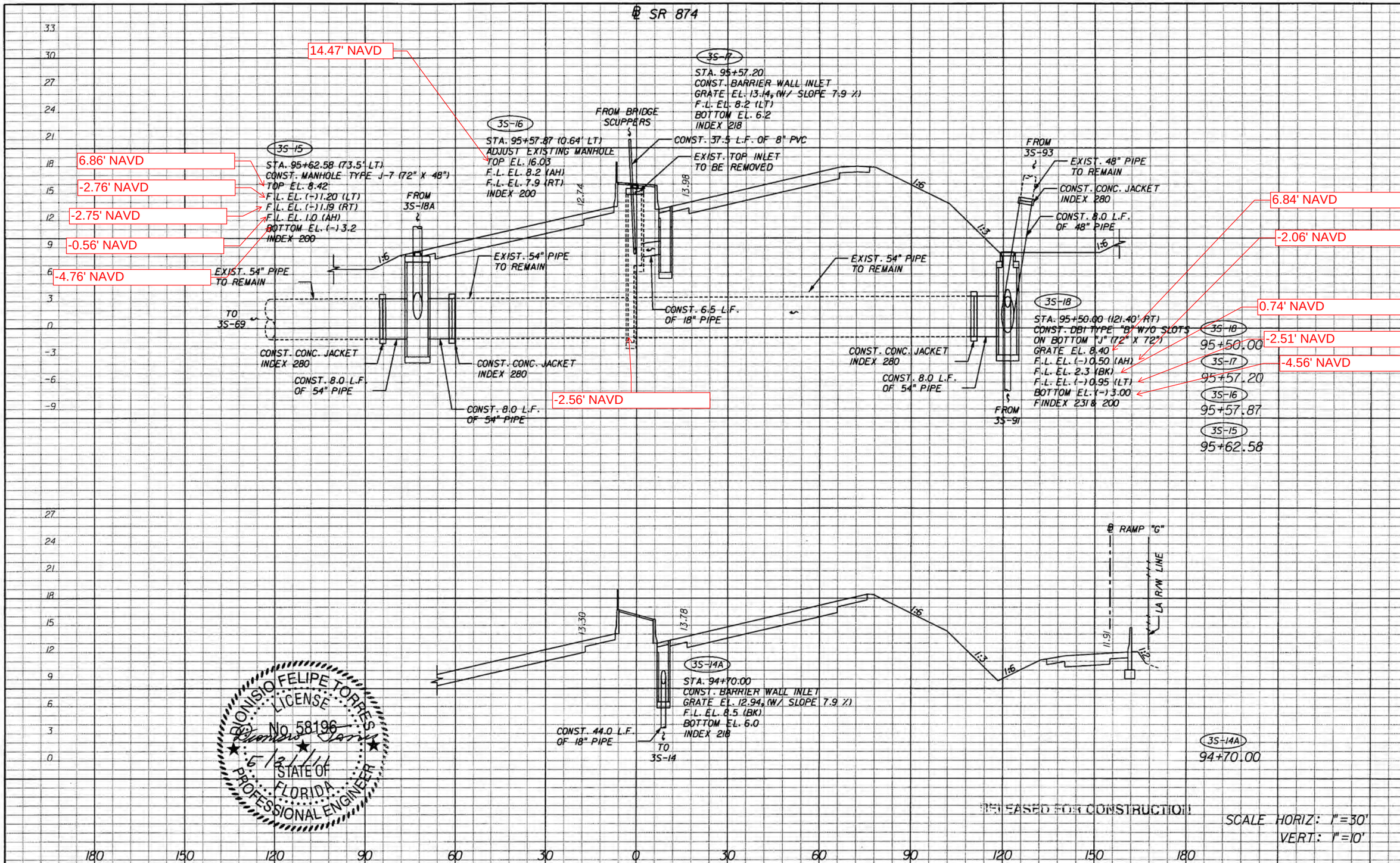
DRAINAGE STRUCTURES

SHEET NO.
4-75



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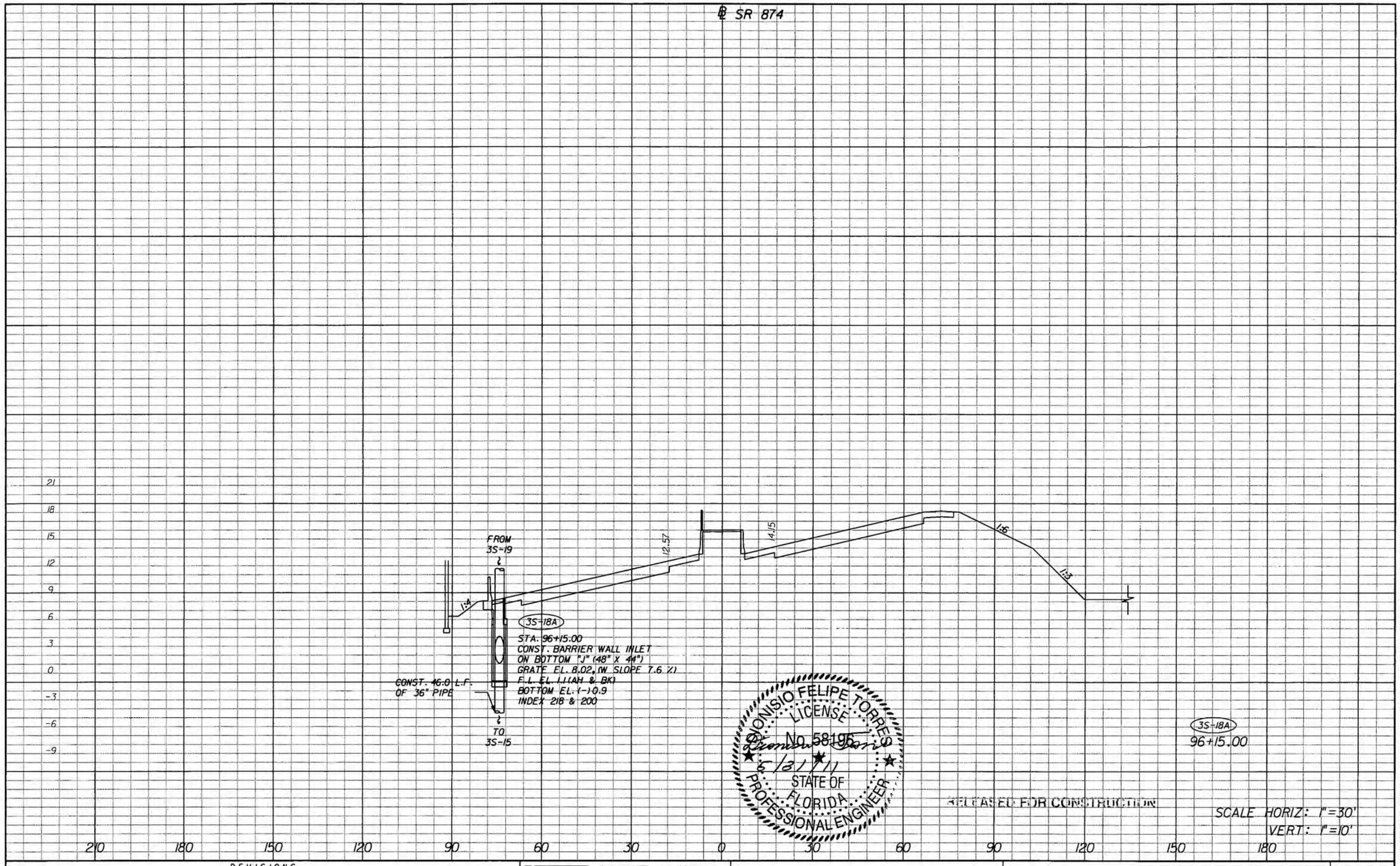
DRAINAGE STRUCTURES

SHEET NO. 4-76



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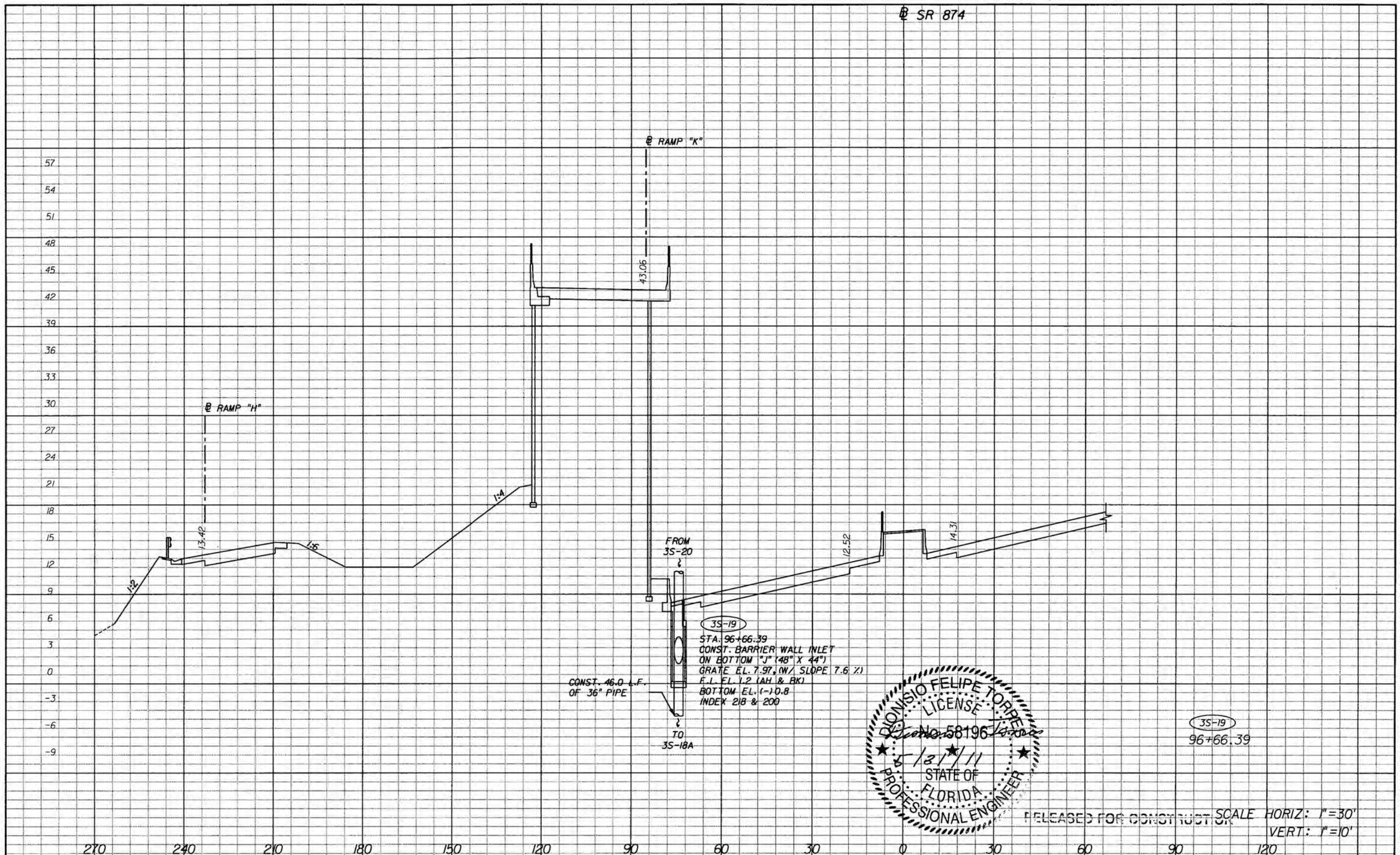
DRAINAGE STRUCTURES

SHEET NO.
4-77



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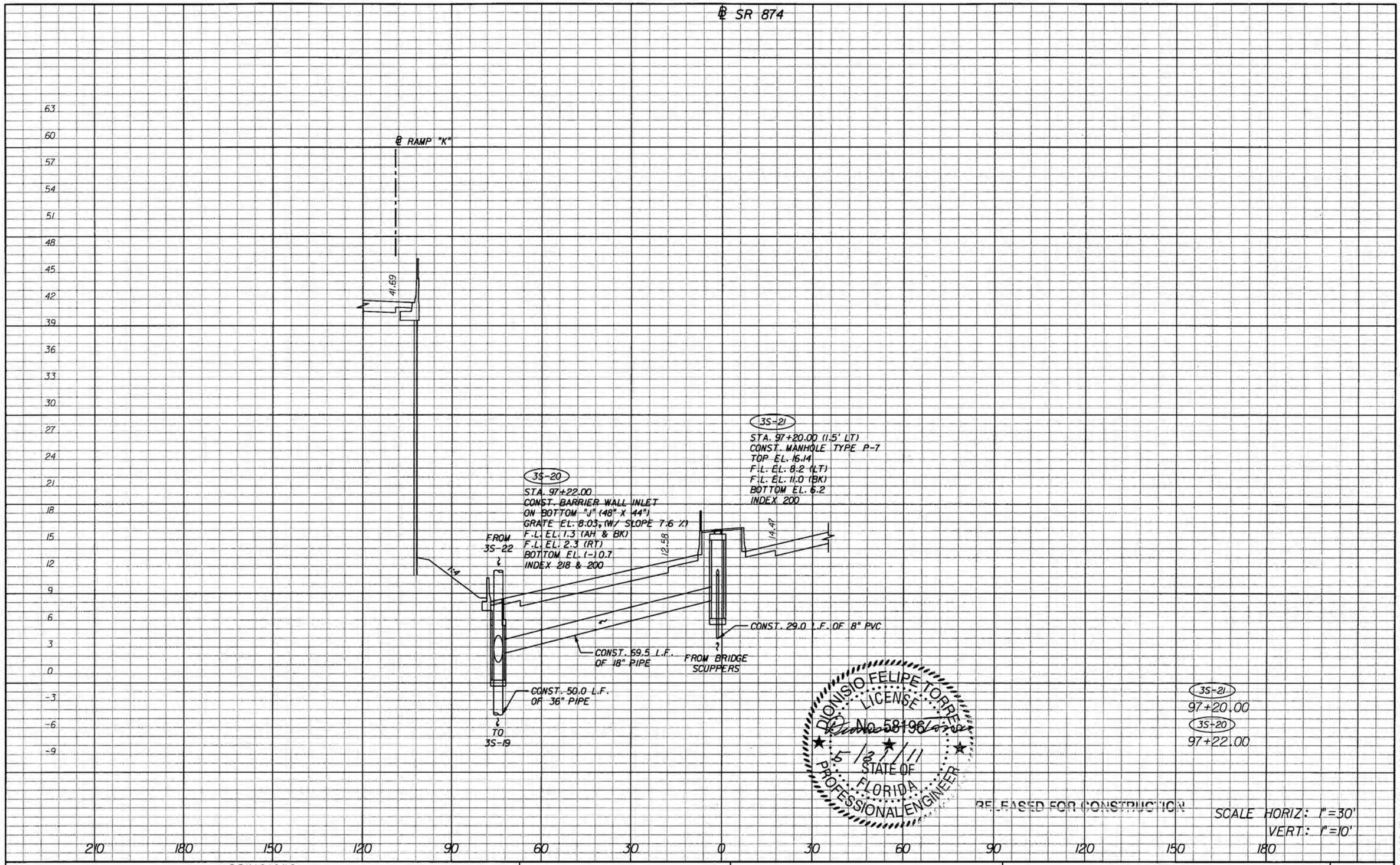
DRAINAGE STRUCTURES

SHEET NO.
4-78



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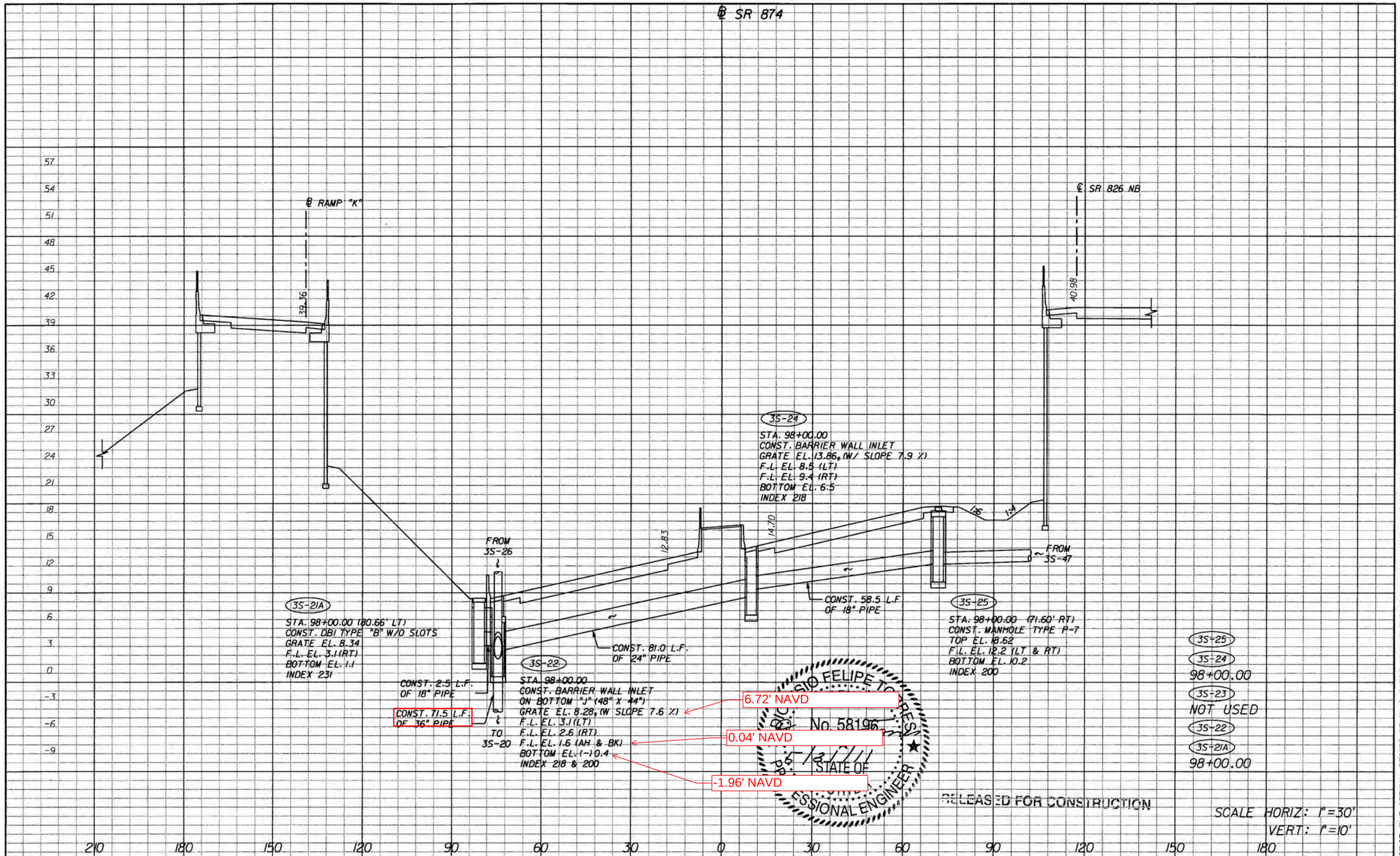
DRAINAGE STRUCTURES

SHEET NO.
4-79



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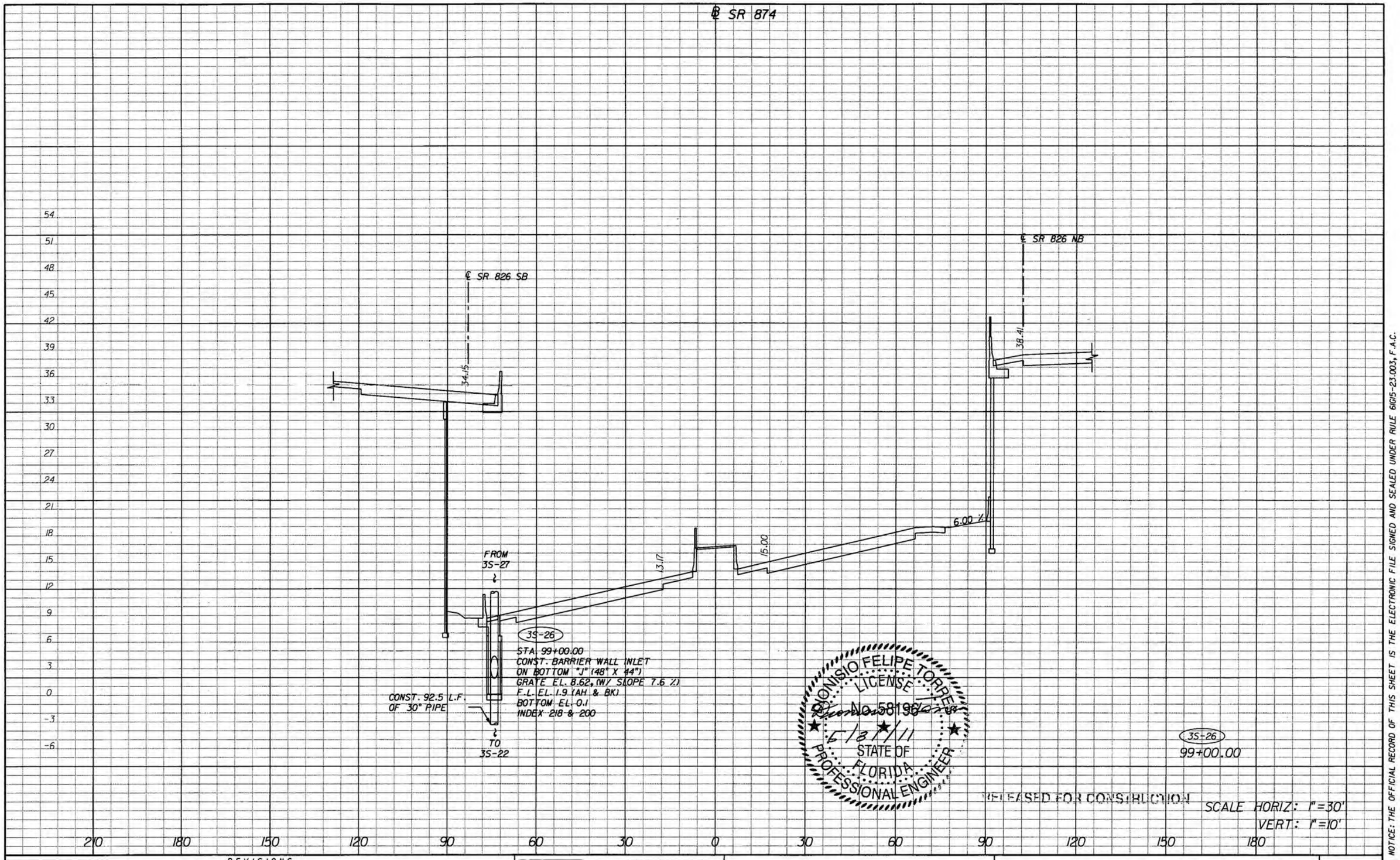
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-80



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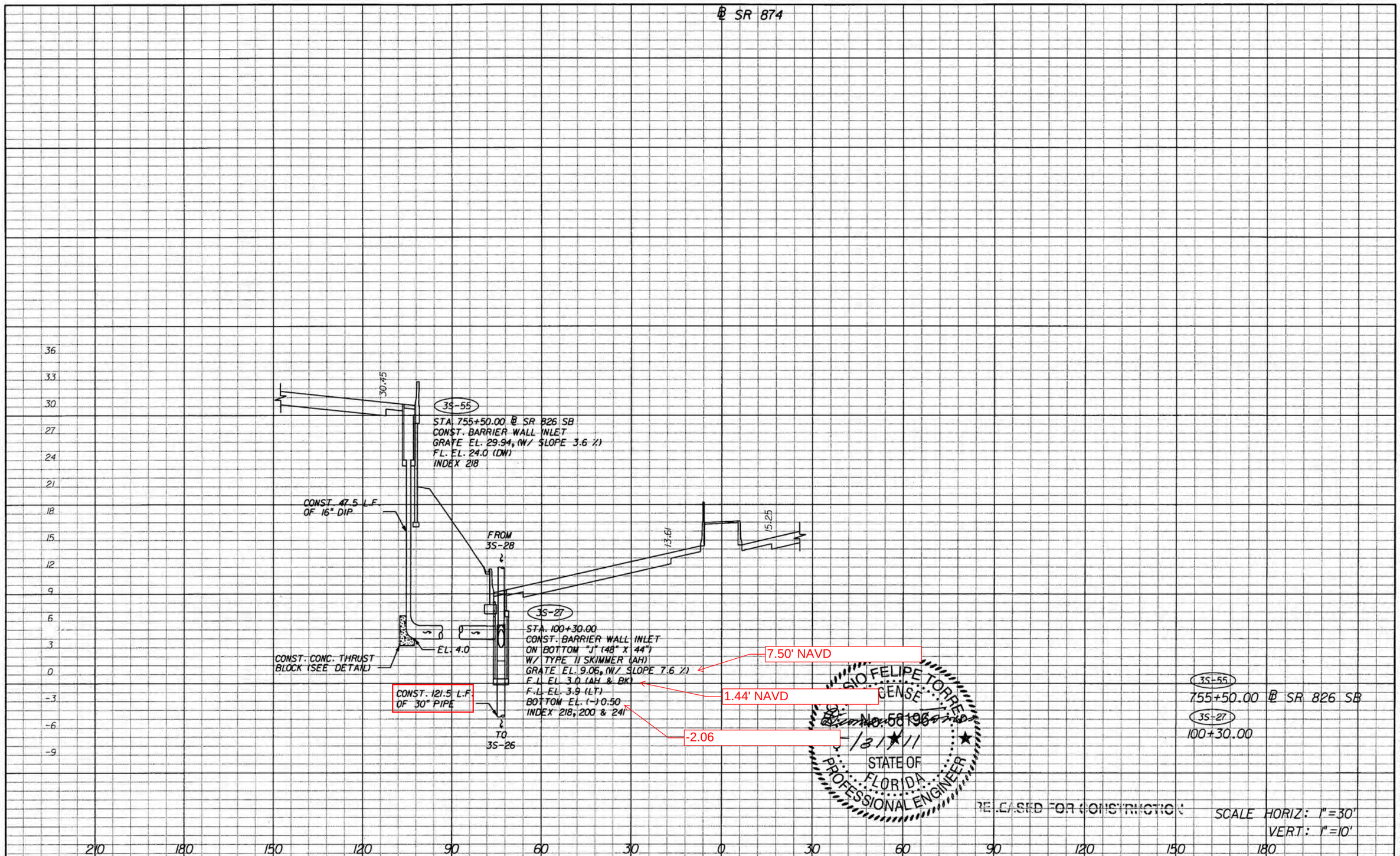
DRAINAGE STRUCTURES

SHEET NO.
4-81

℄ SR 874



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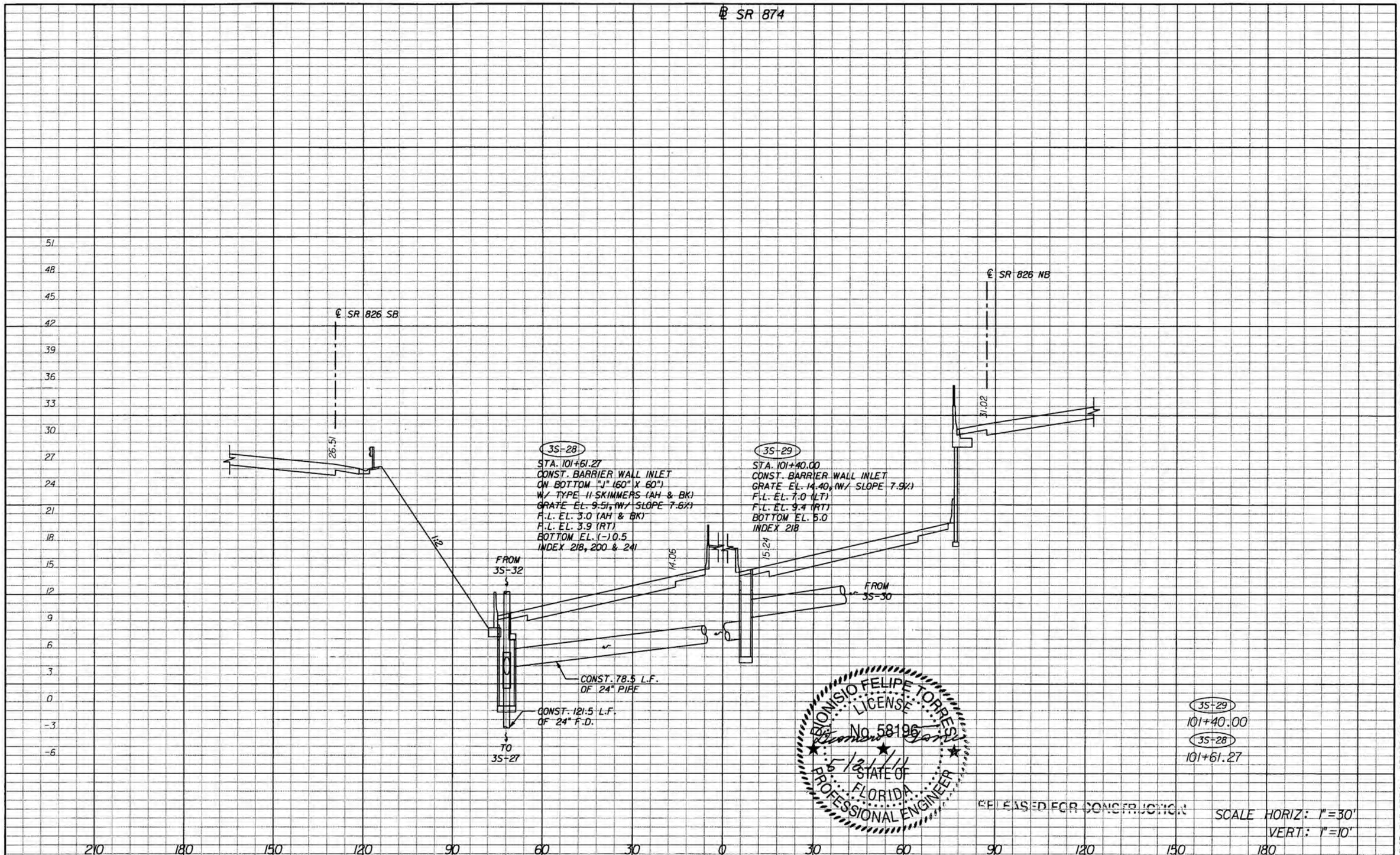
DRAINAGE STRUCTURES

SHEET NO. 4-82



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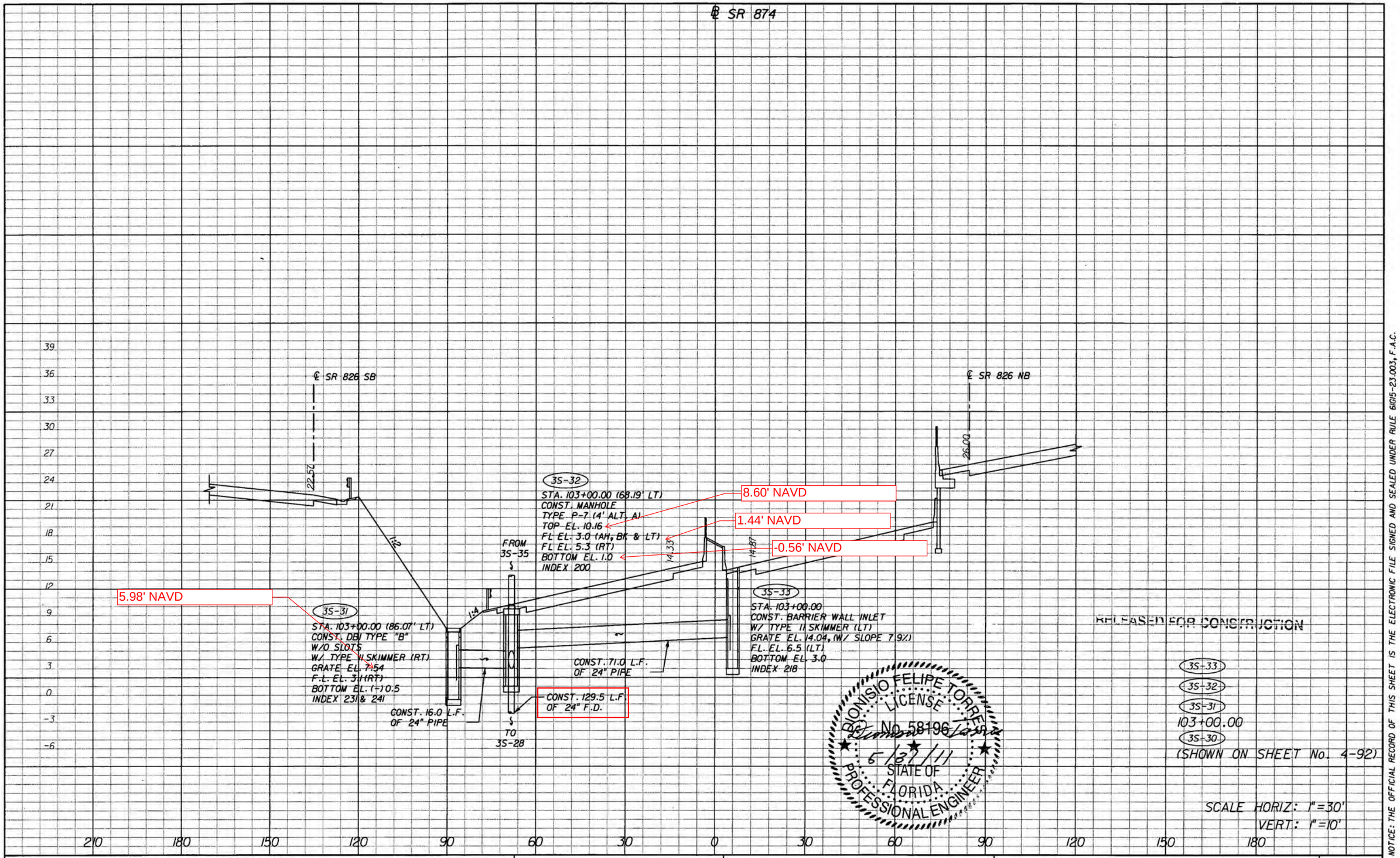
DRAINAGE STRUCTURES

SHEET NO.
4-83



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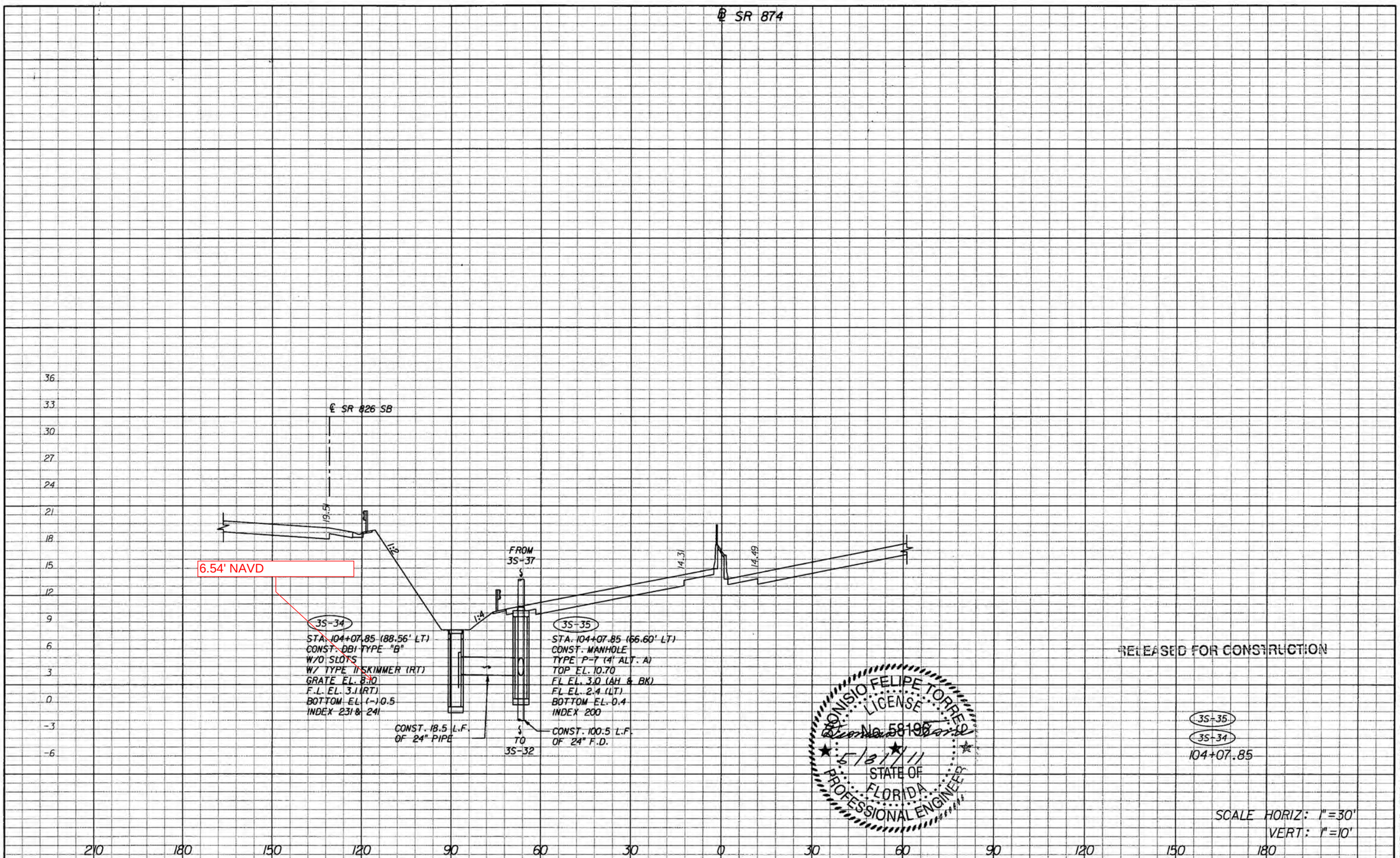
DRAINAGE STRUCTURES

SHEET NO. 4-84



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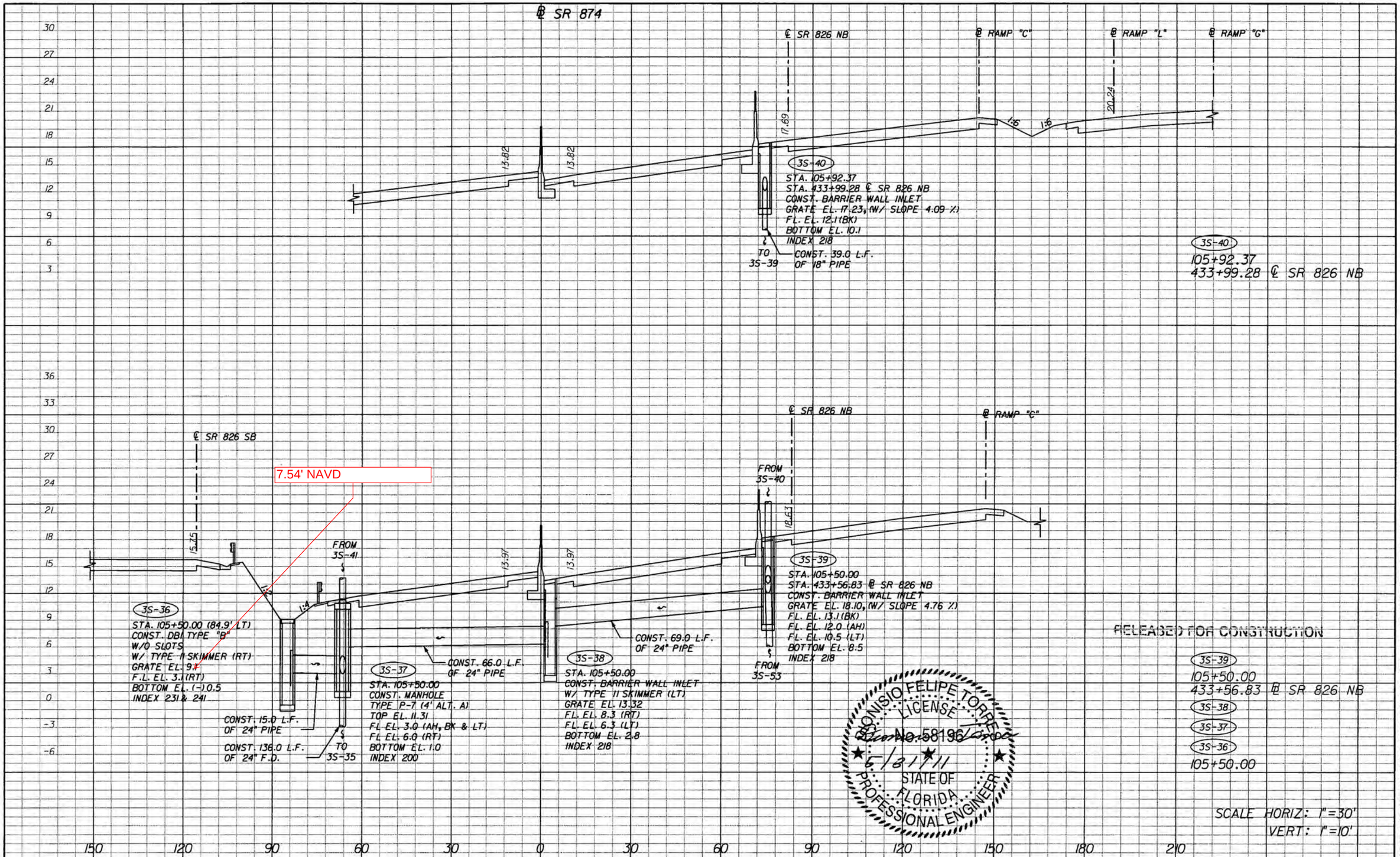
DRAINAGE STRUCTURES

SHEET NO.
4-85



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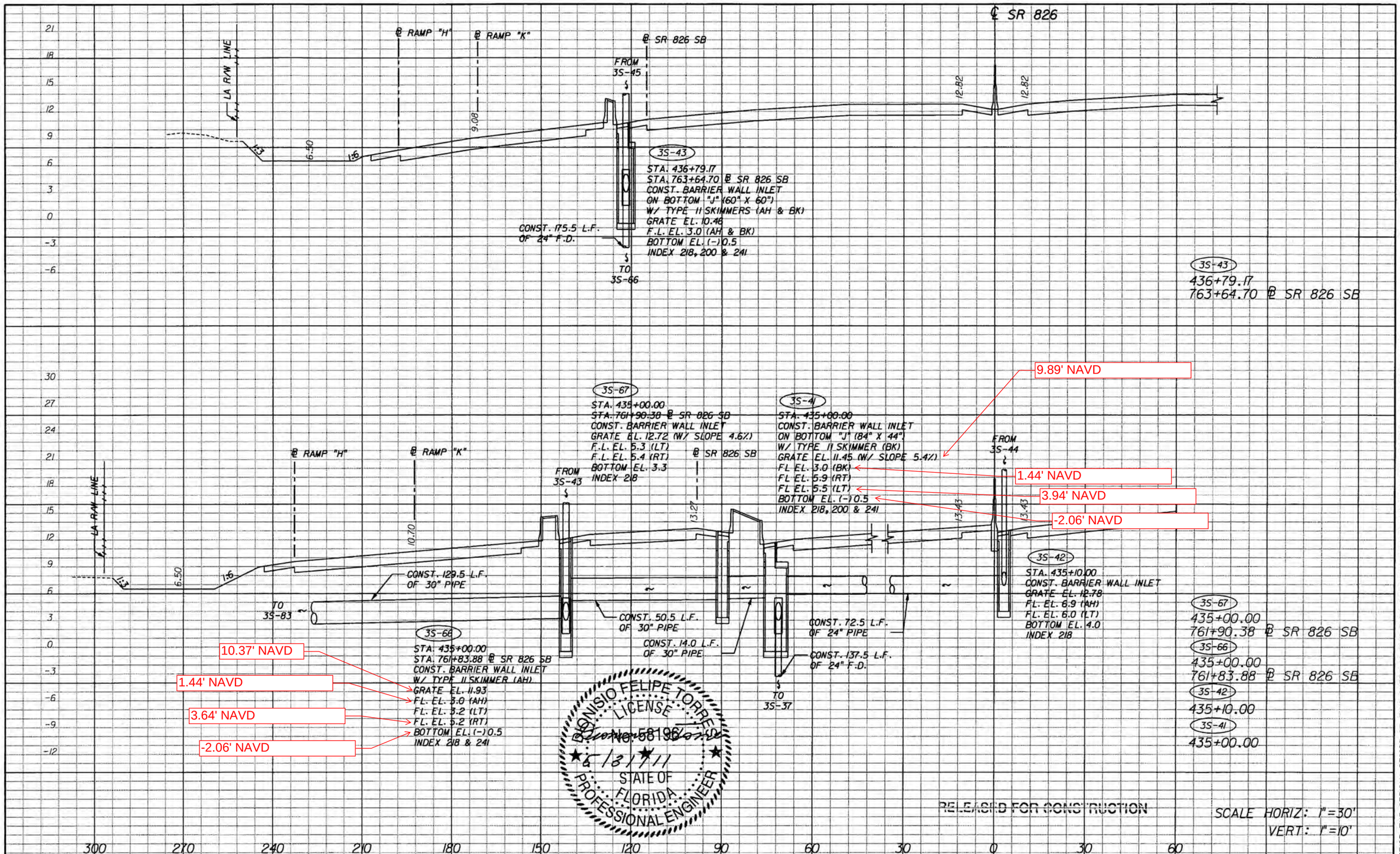
DRAINAGE STRUCTURES

SHEET NO.
4-86



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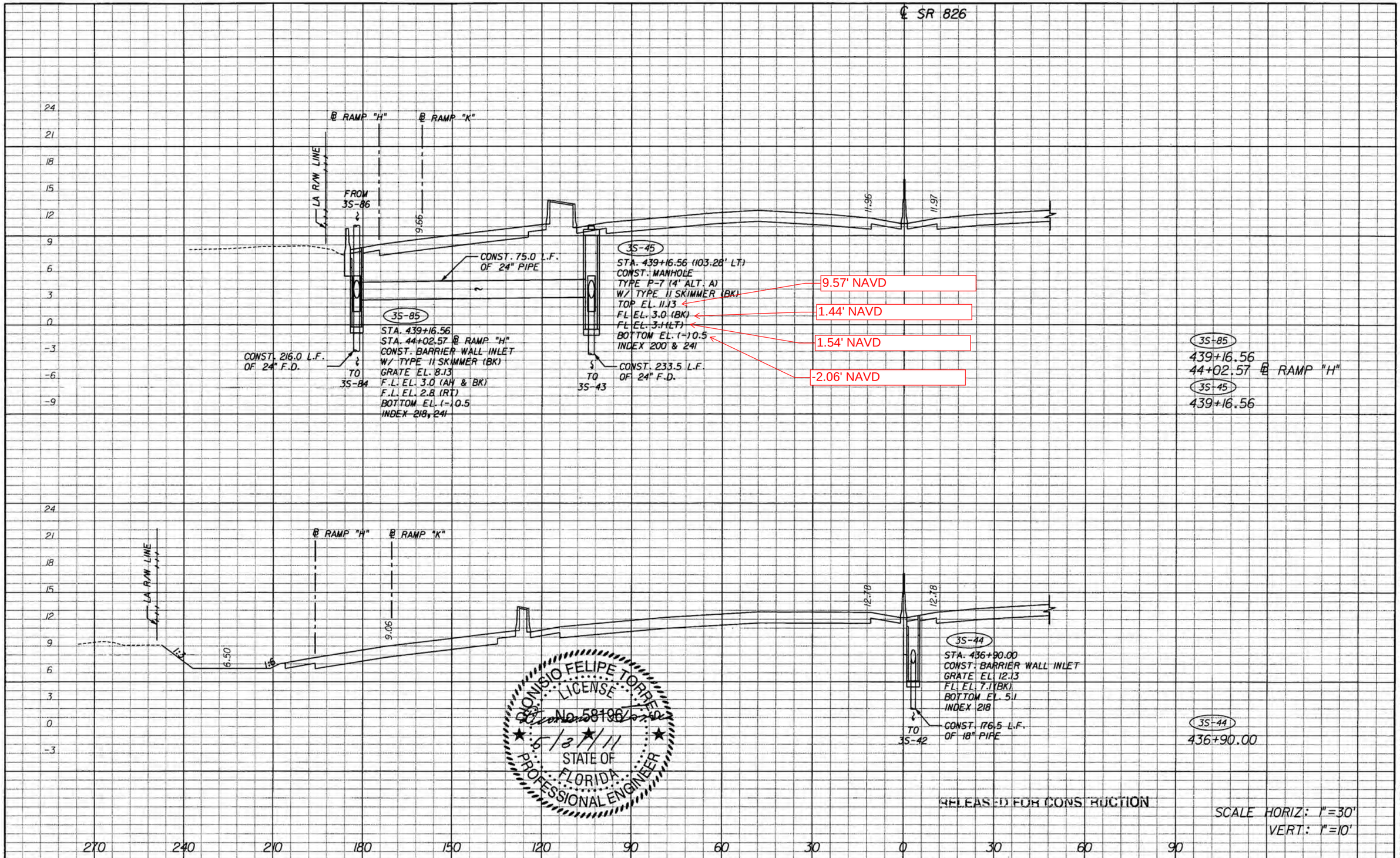
DRAINAGE STRUCTURES

SHEET NO. 4-87



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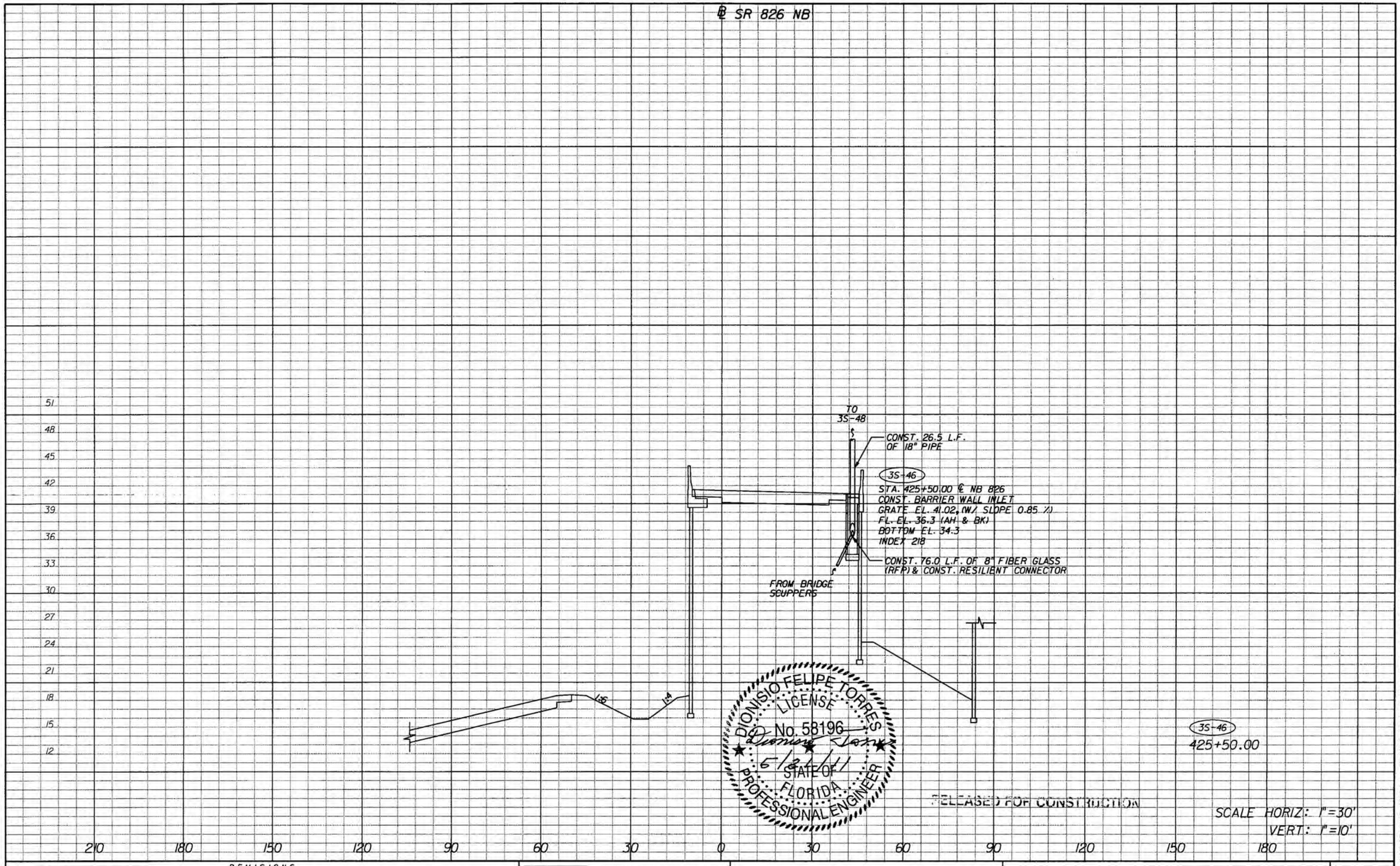
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-88



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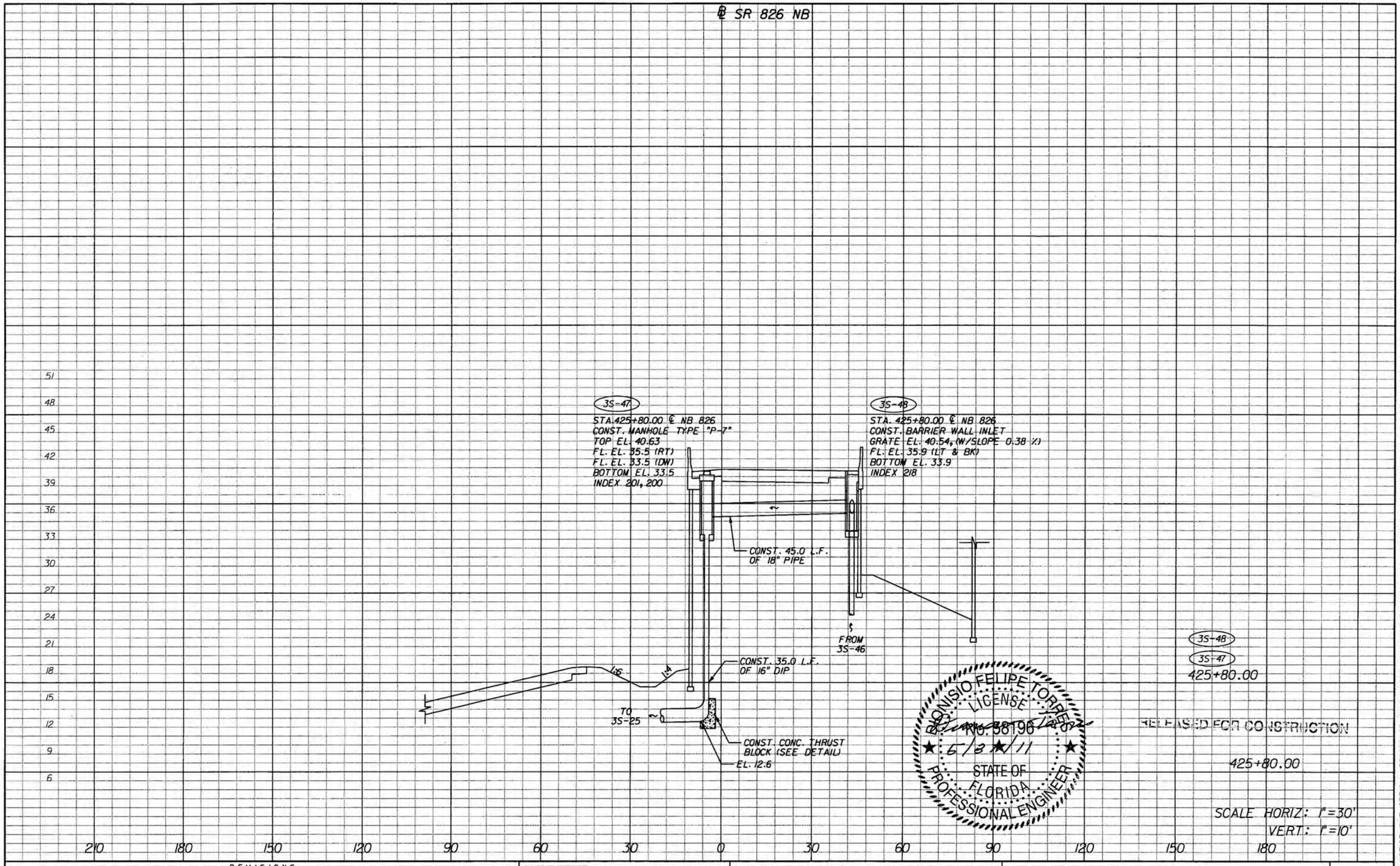
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-89



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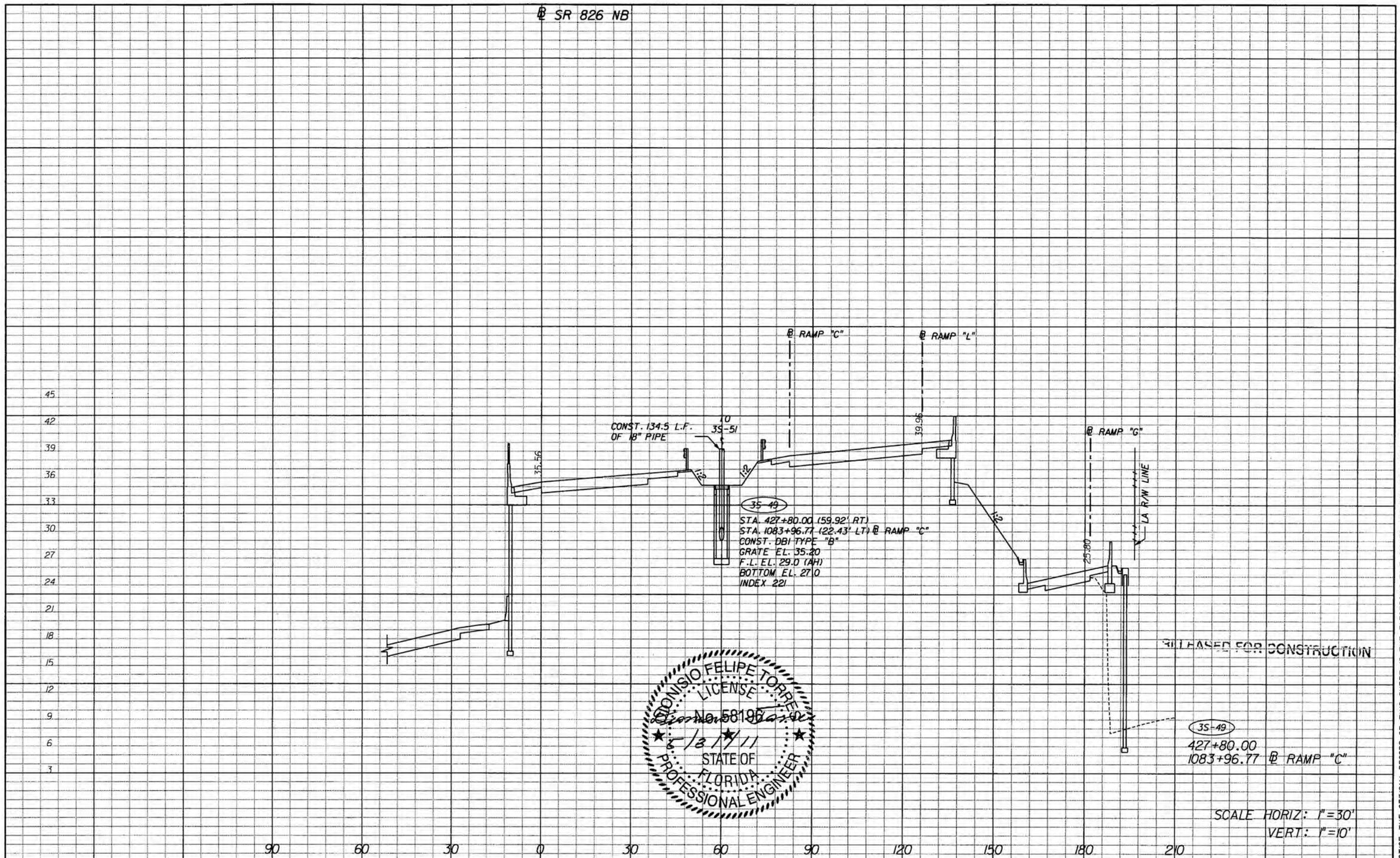
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-90



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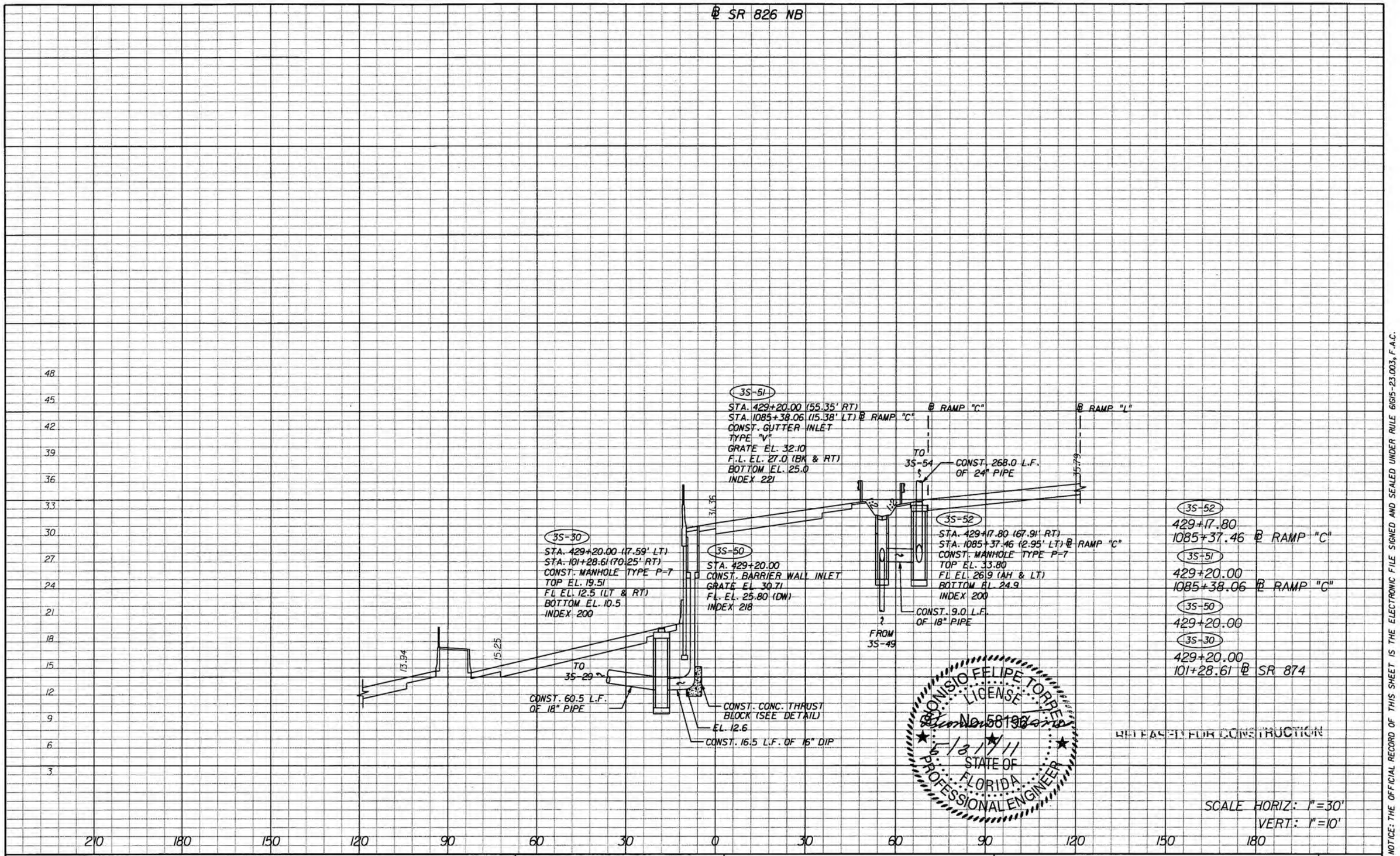
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-91



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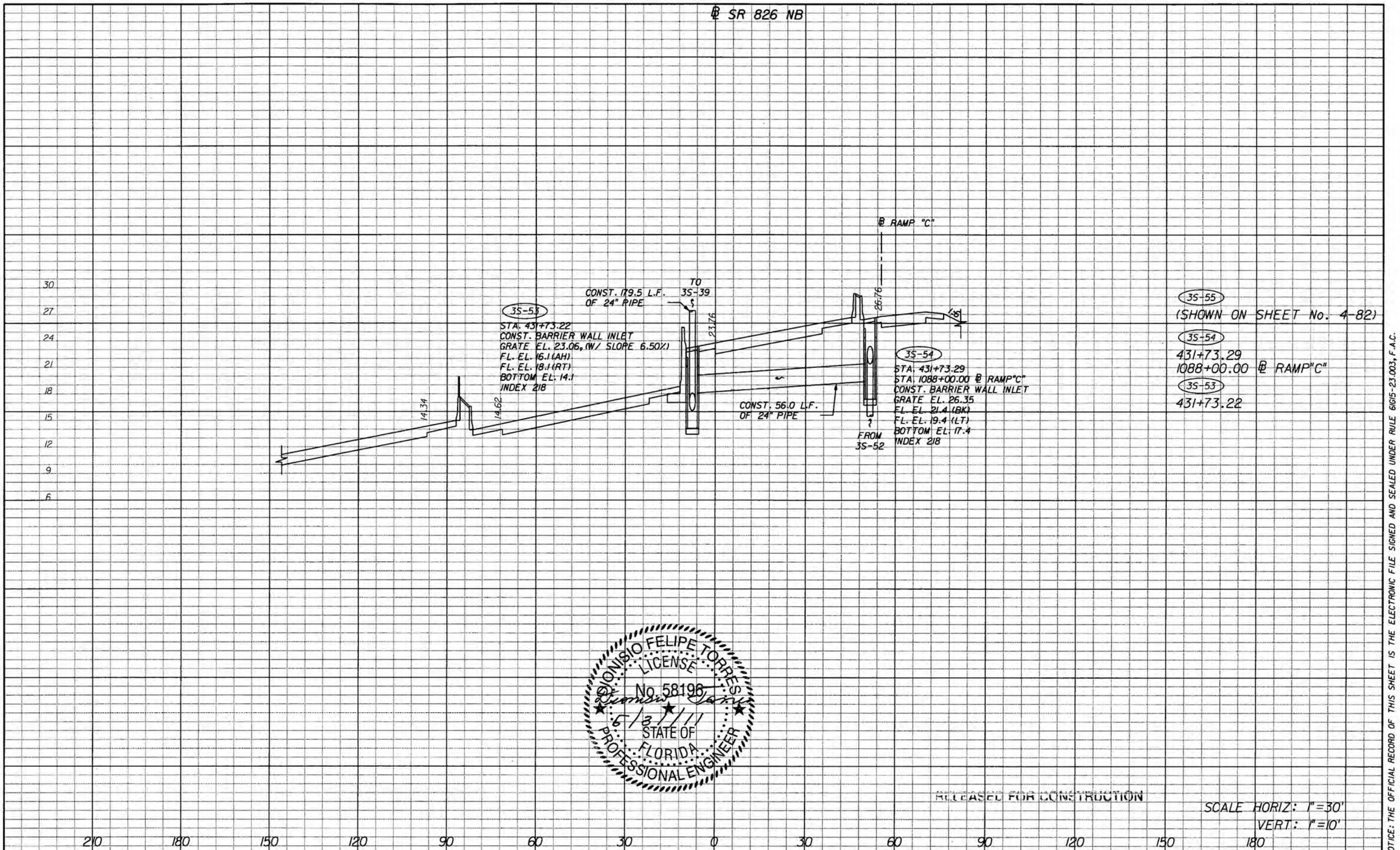
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-92



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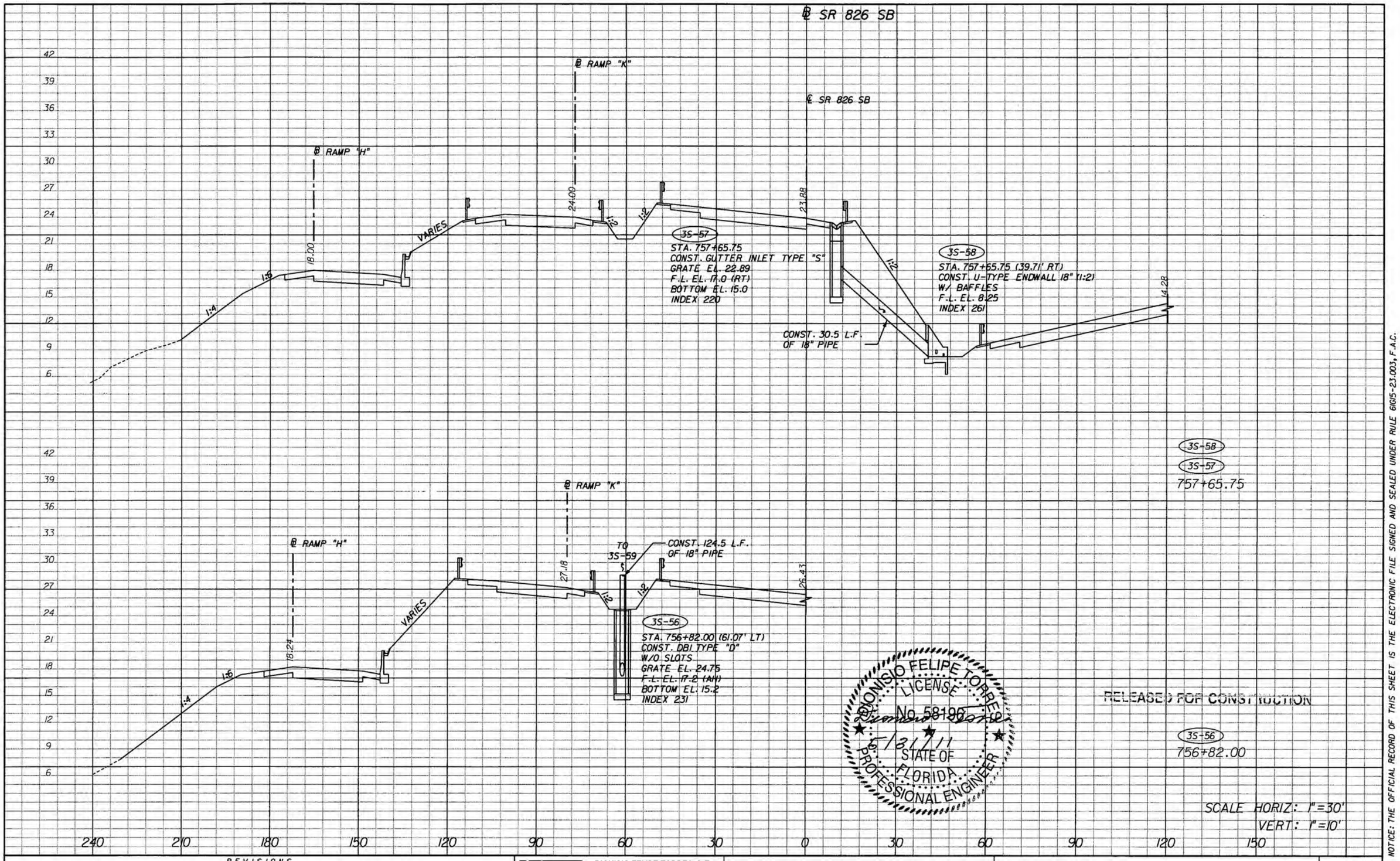
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-93



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LICENSE
No. 58196
5/27/11
STATE OF FLORIDA
PROFESSIONAL ENGINEER

RELEASED FOR CONSTRUCTION

SCALE HORIZ: 1"=30'
VERT: 1"=10'

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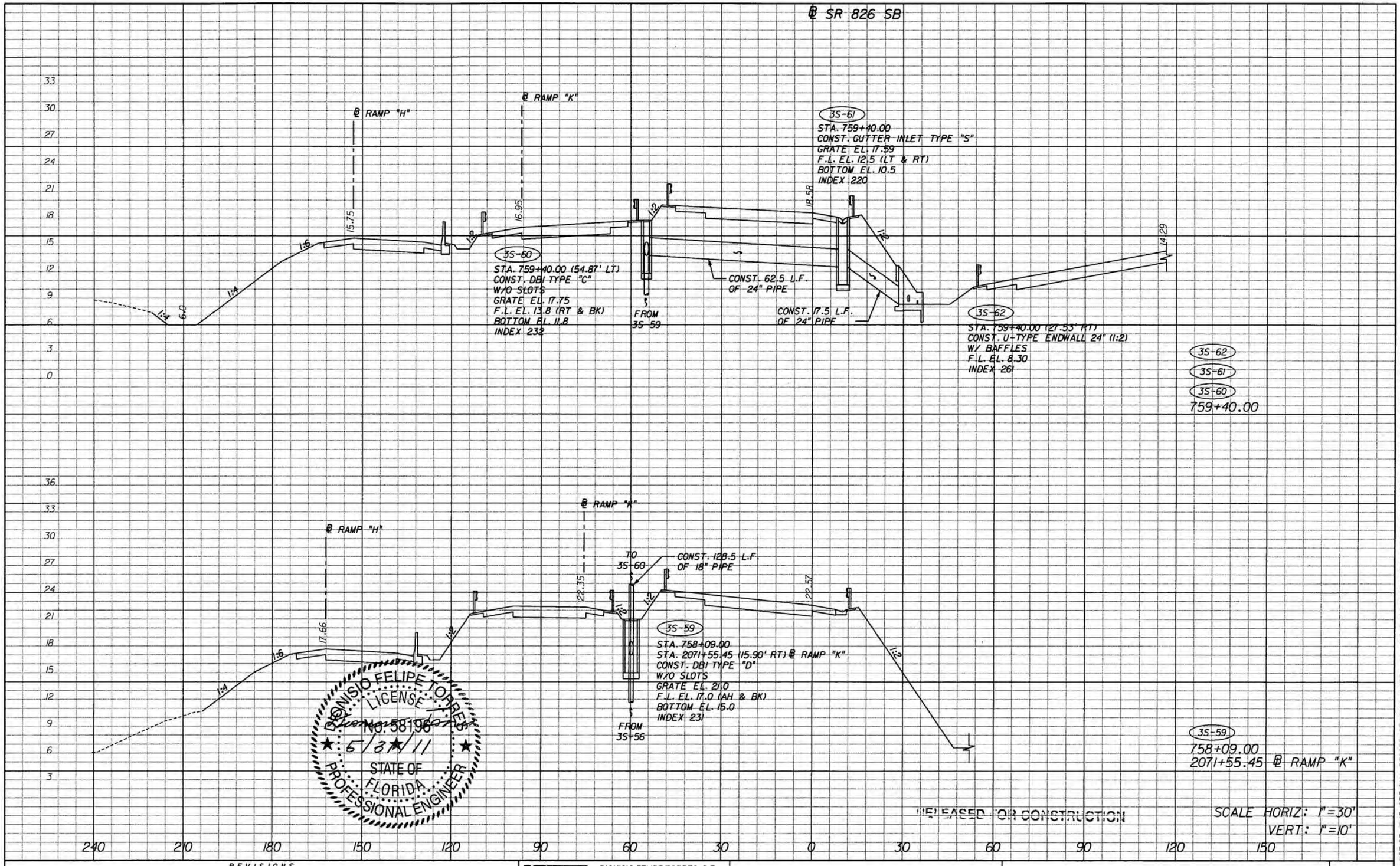
DRAINAGE STRUCTURES

SHEET NO.
4-94



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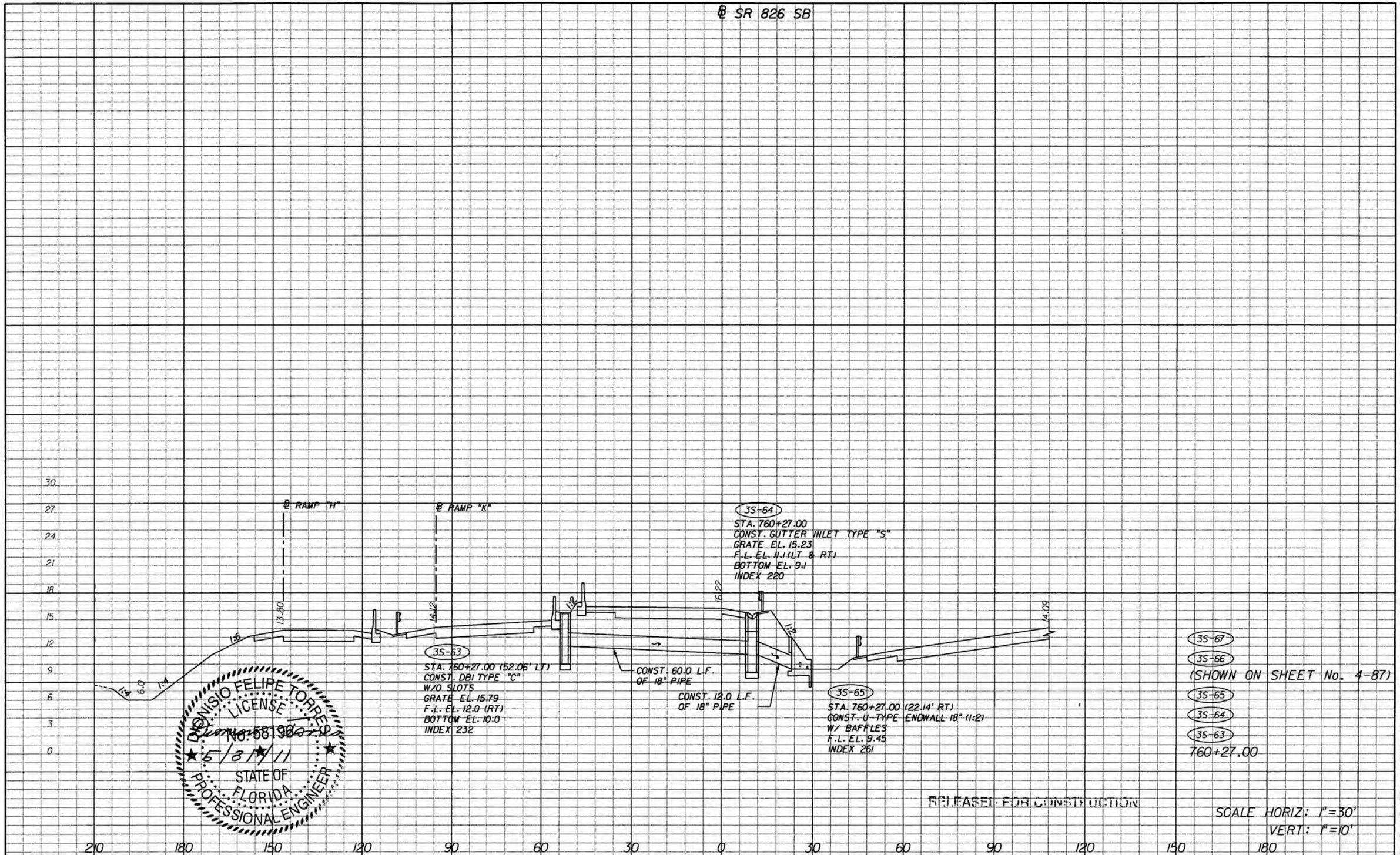
DRAINAGE STRUCTURES

SHEET NO. 4-95



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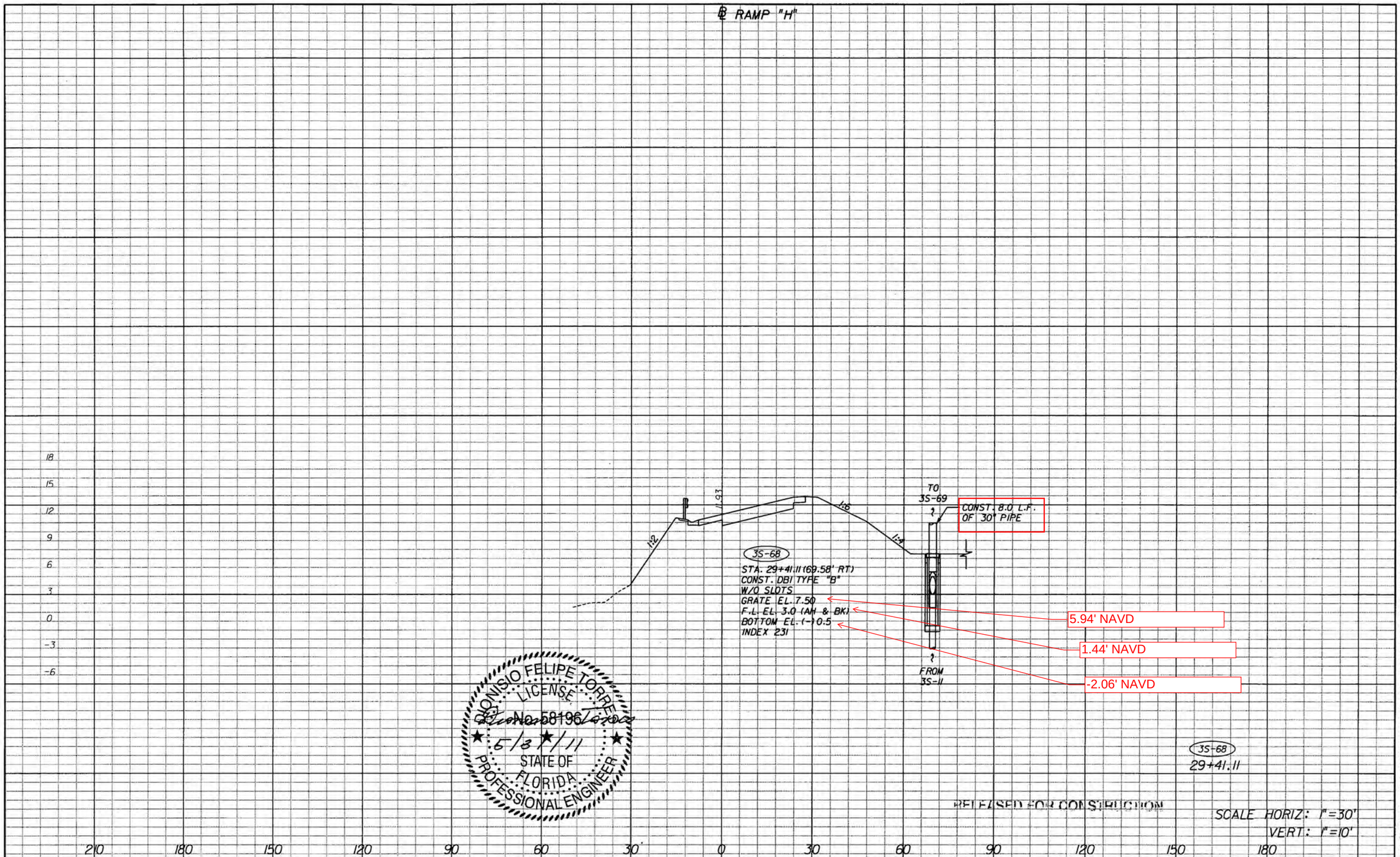
DRAINAGE STRUCTURES

SHEET NO.
4-96



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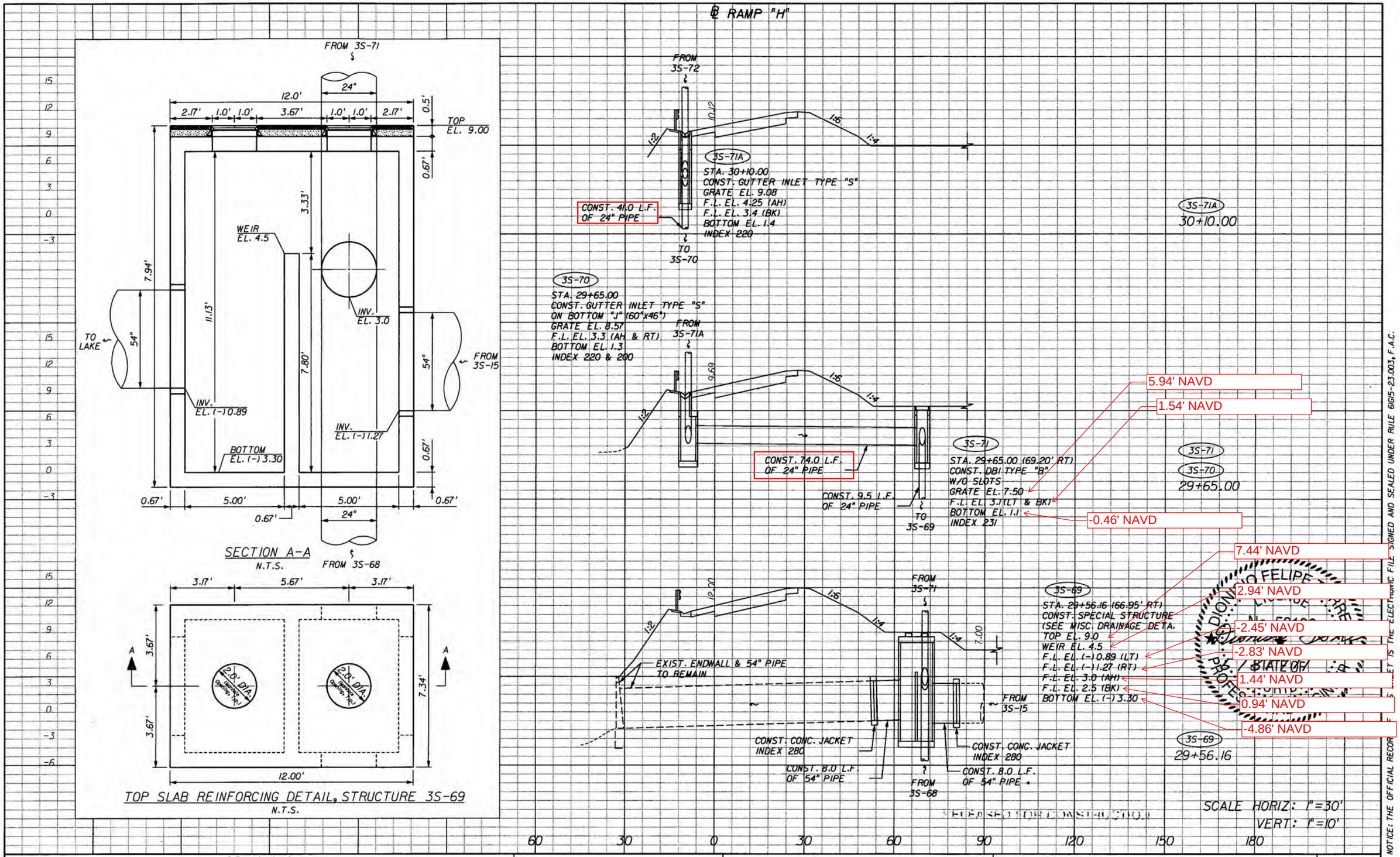
DRAINAGE STRUCTURES

SHEET NO.
4-97



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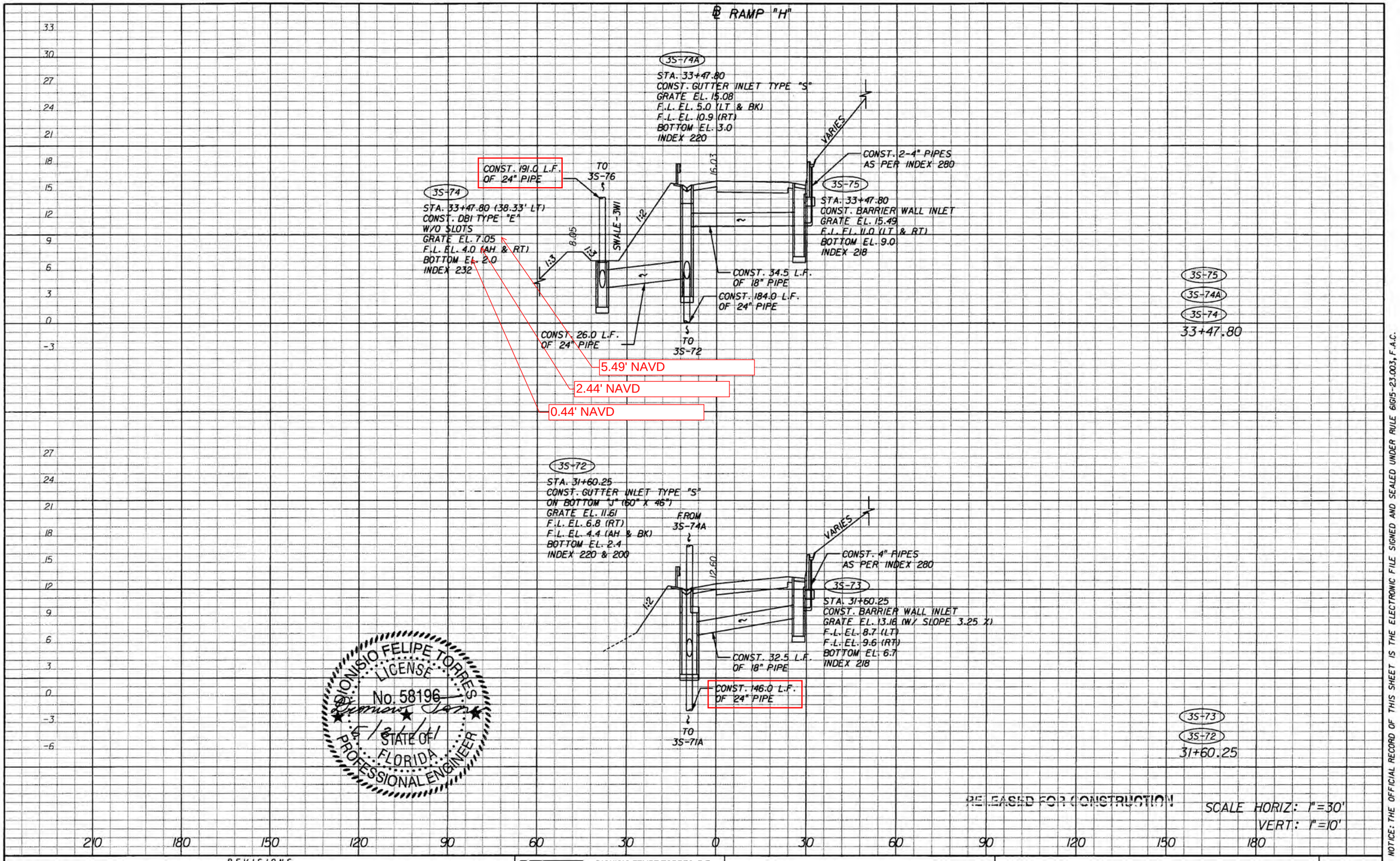
DRAINAGE STRUCTURES

SHEET NO. 4-98



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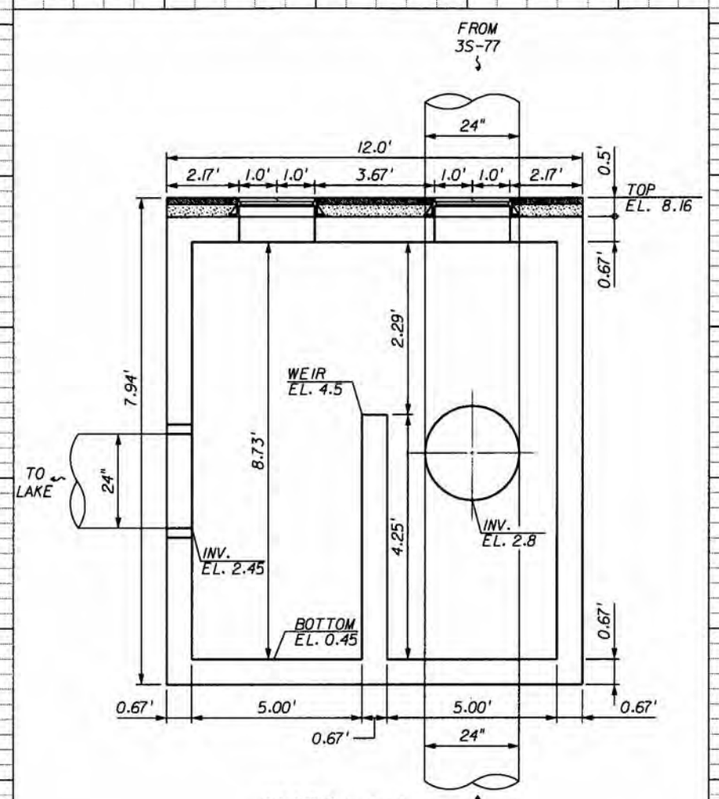
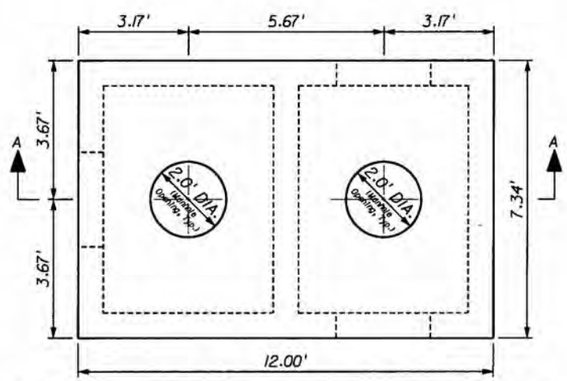
DRAINAGE STRUCTURES

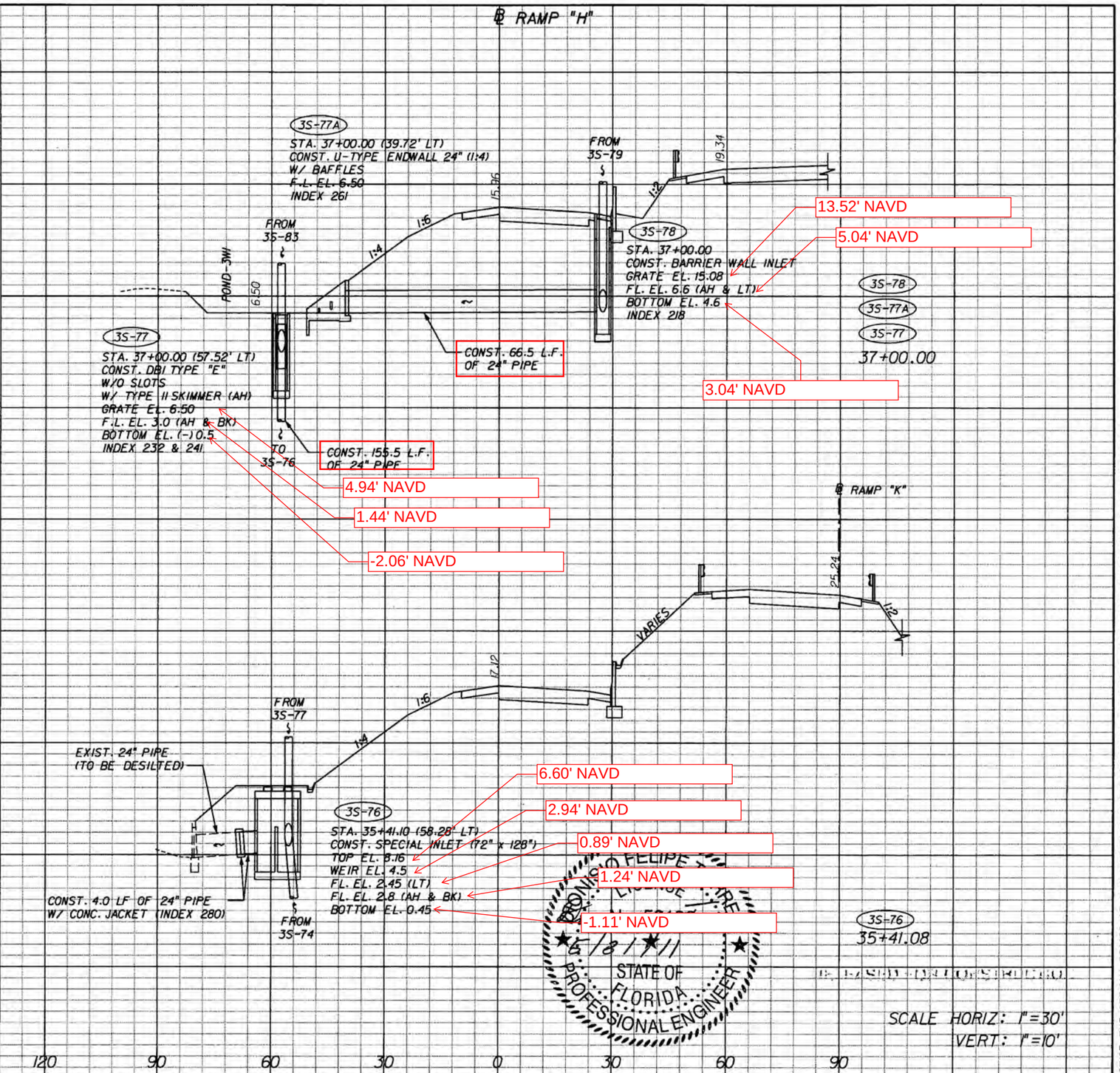
SHEET NO.
4-99



SECTION A-A
N.T.S.



TOP SLAB REINFORCING DETAIL, STRUCTURE 3S-76
N.T.S.



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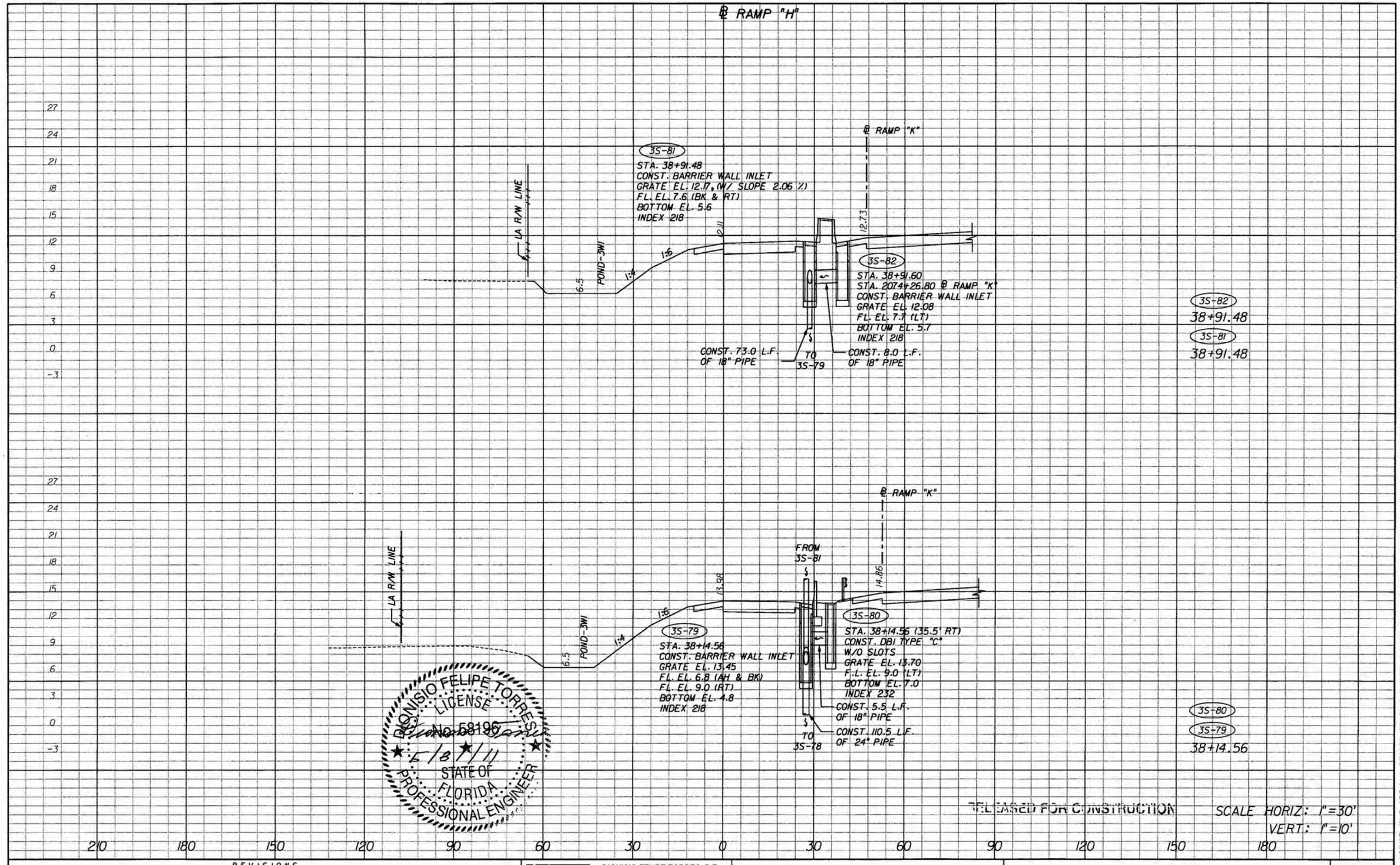
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-100



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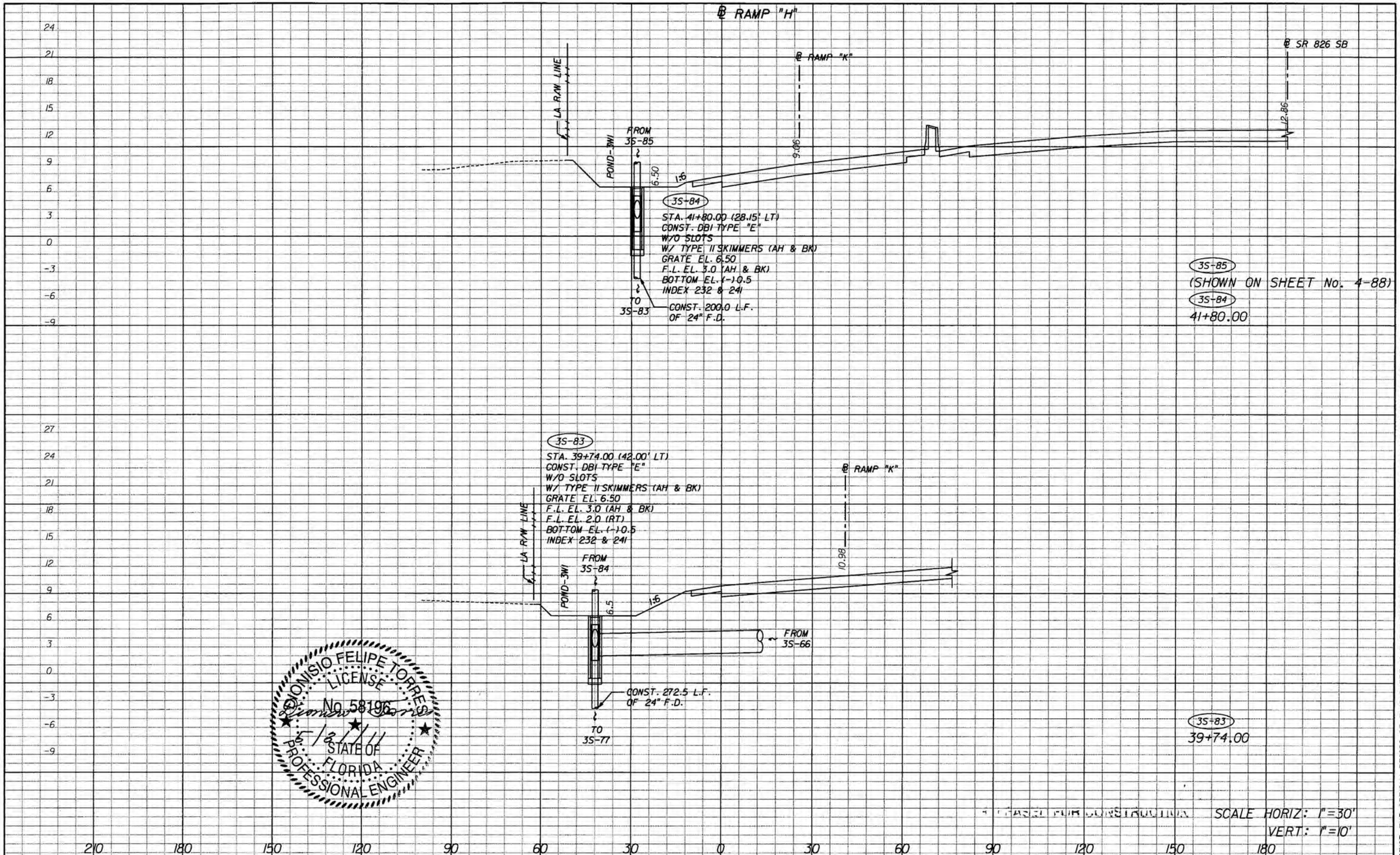
DRAINAGE STRUCTURES

SHEET NO. 4-101



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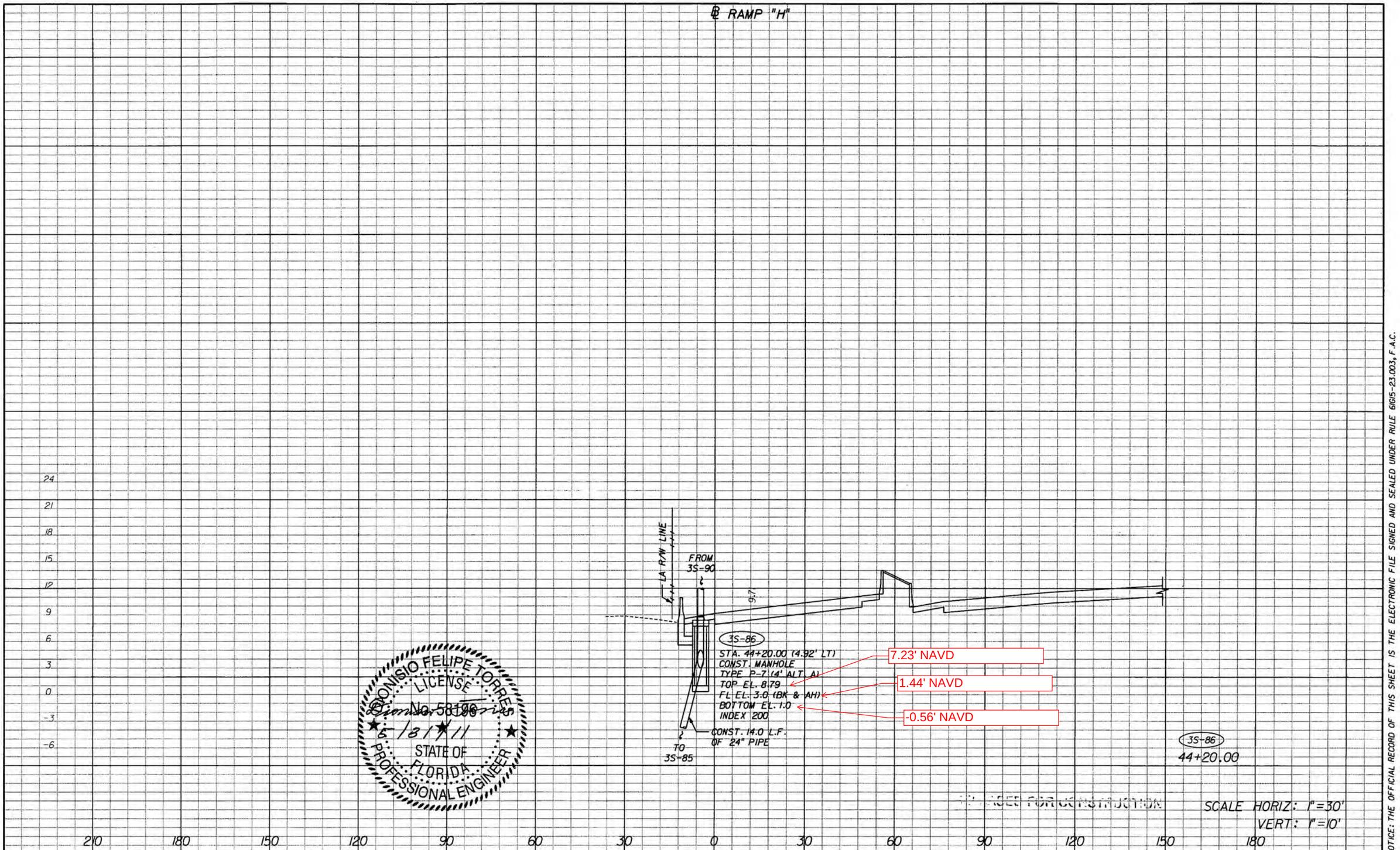
DRAINAGE STRUCTURES

SHEET NO. 4-102



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Dionisio Torres
6/8/11

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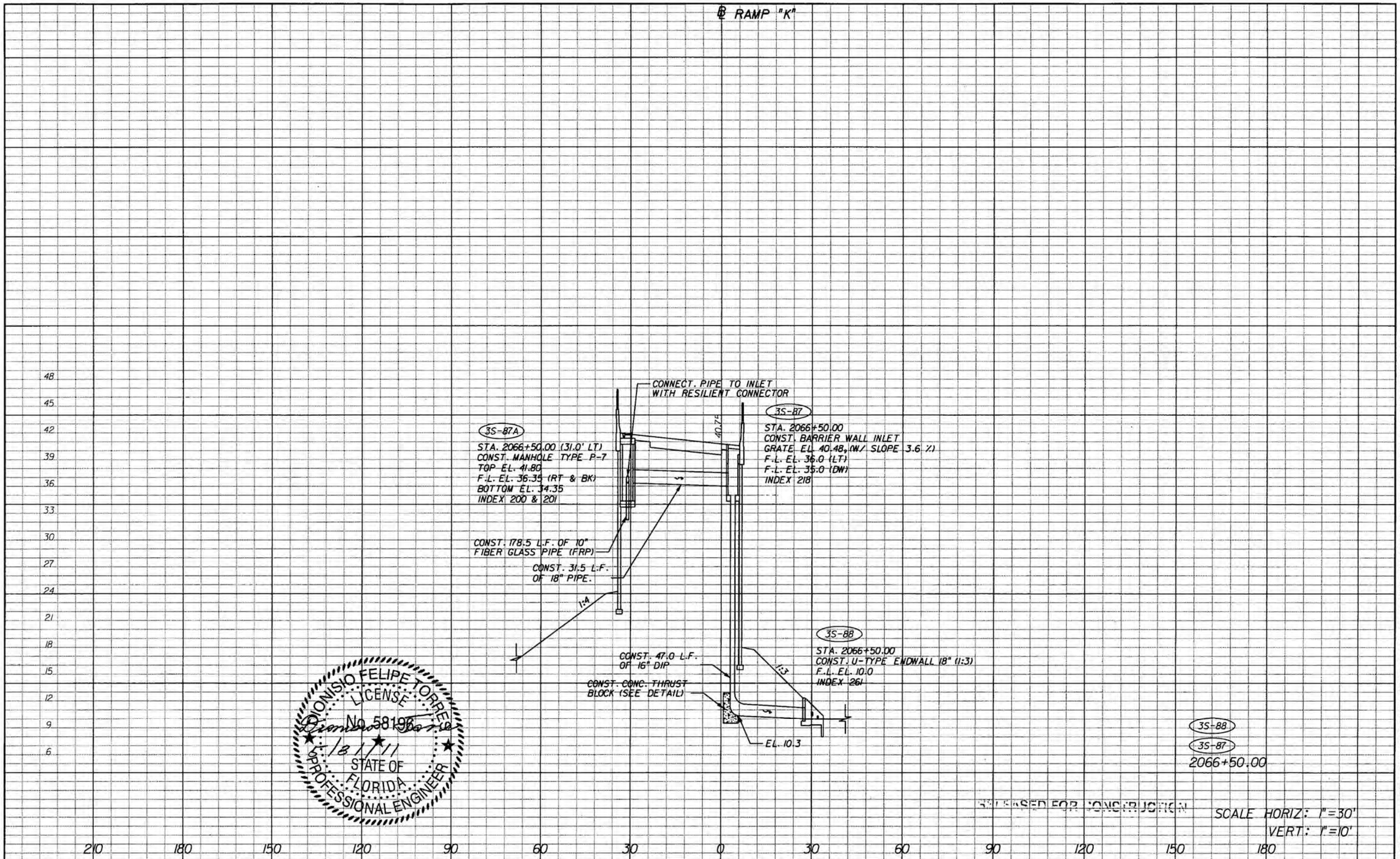
DRAINAGE STRUCTURES

SHEET NO. 4-103



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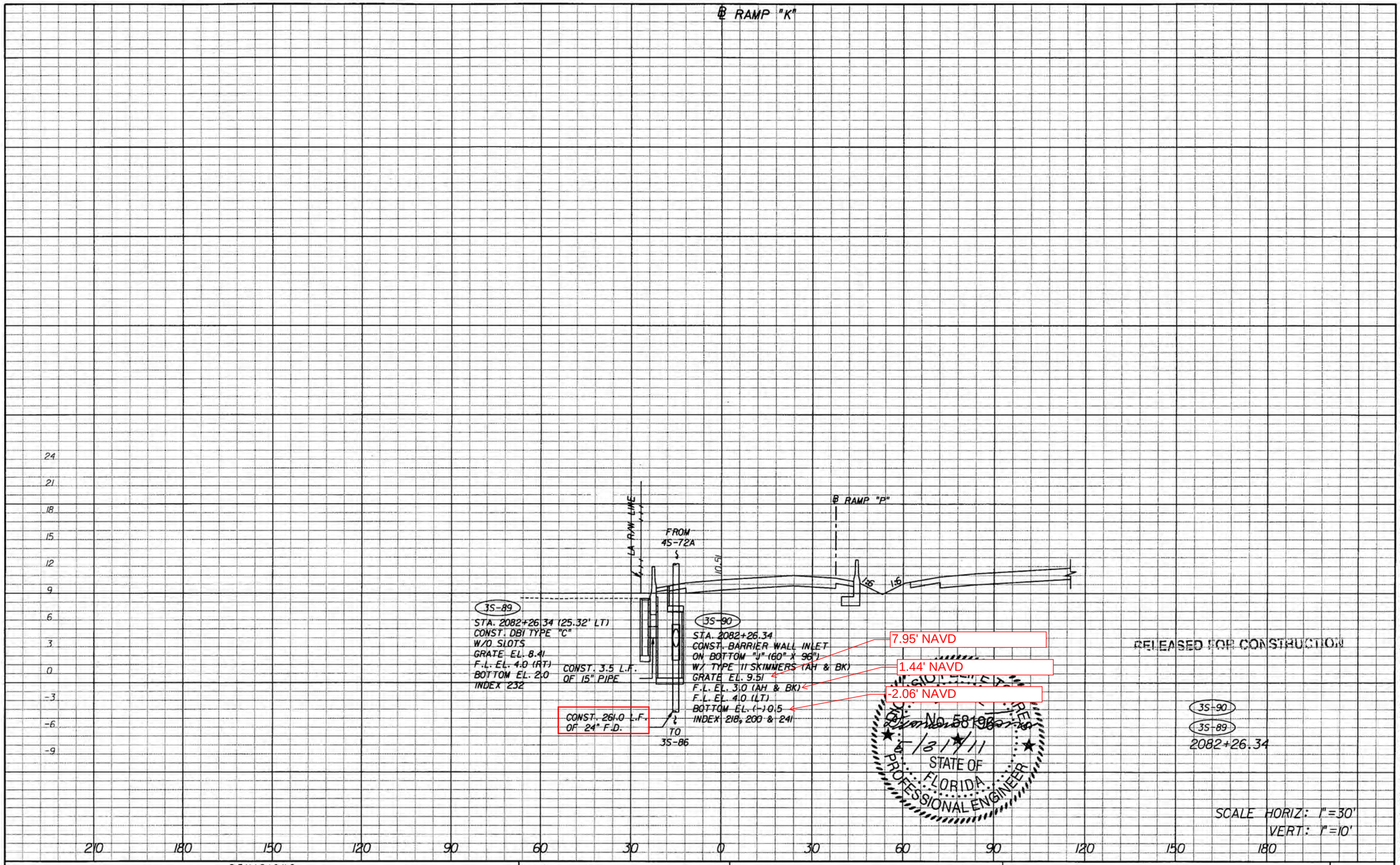
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-104



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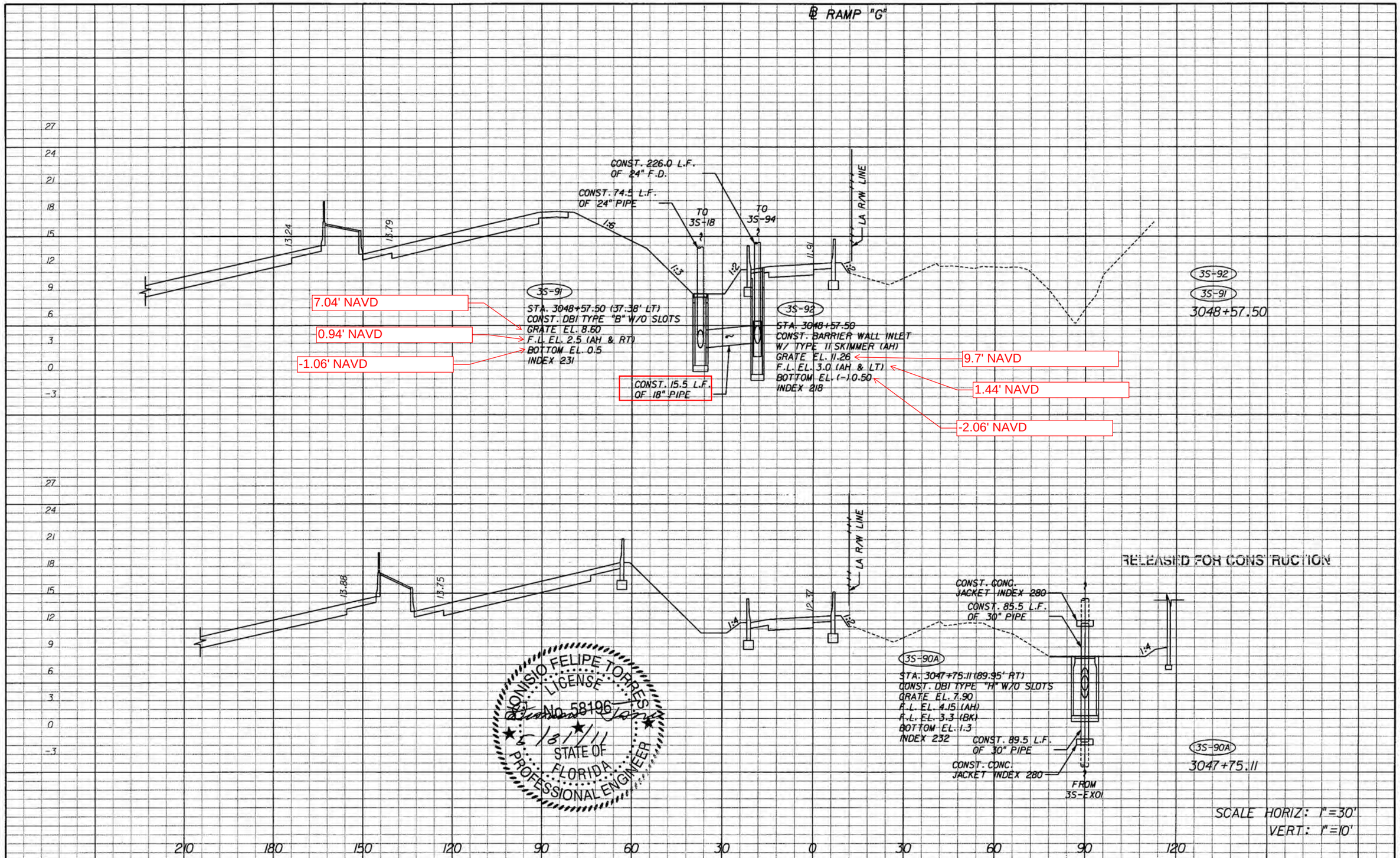
DRAINAGE STRUCTURES

SHEET NO.
4-105



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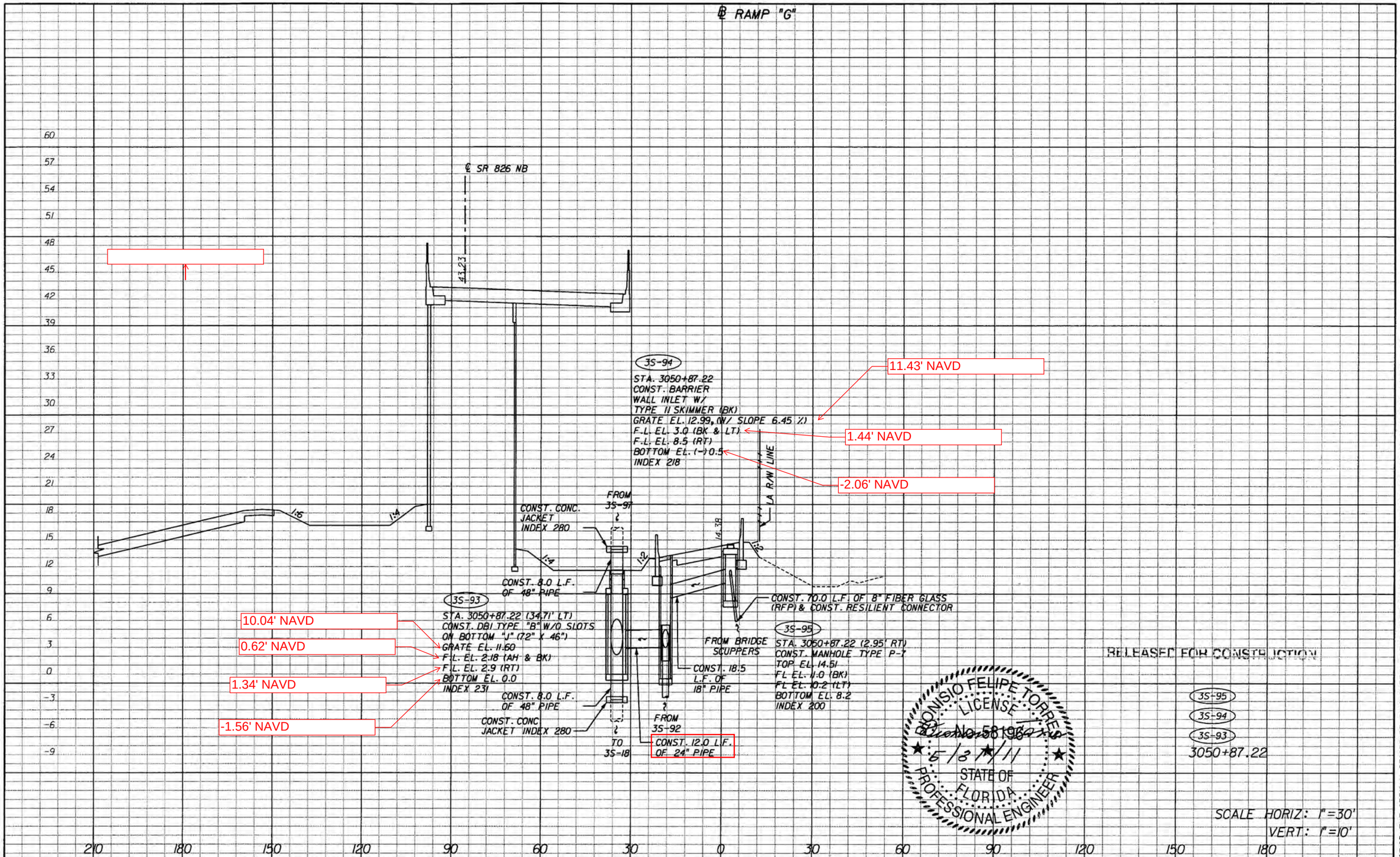
DRAINAGE STRUCTURES

SHEET NO. 4-106



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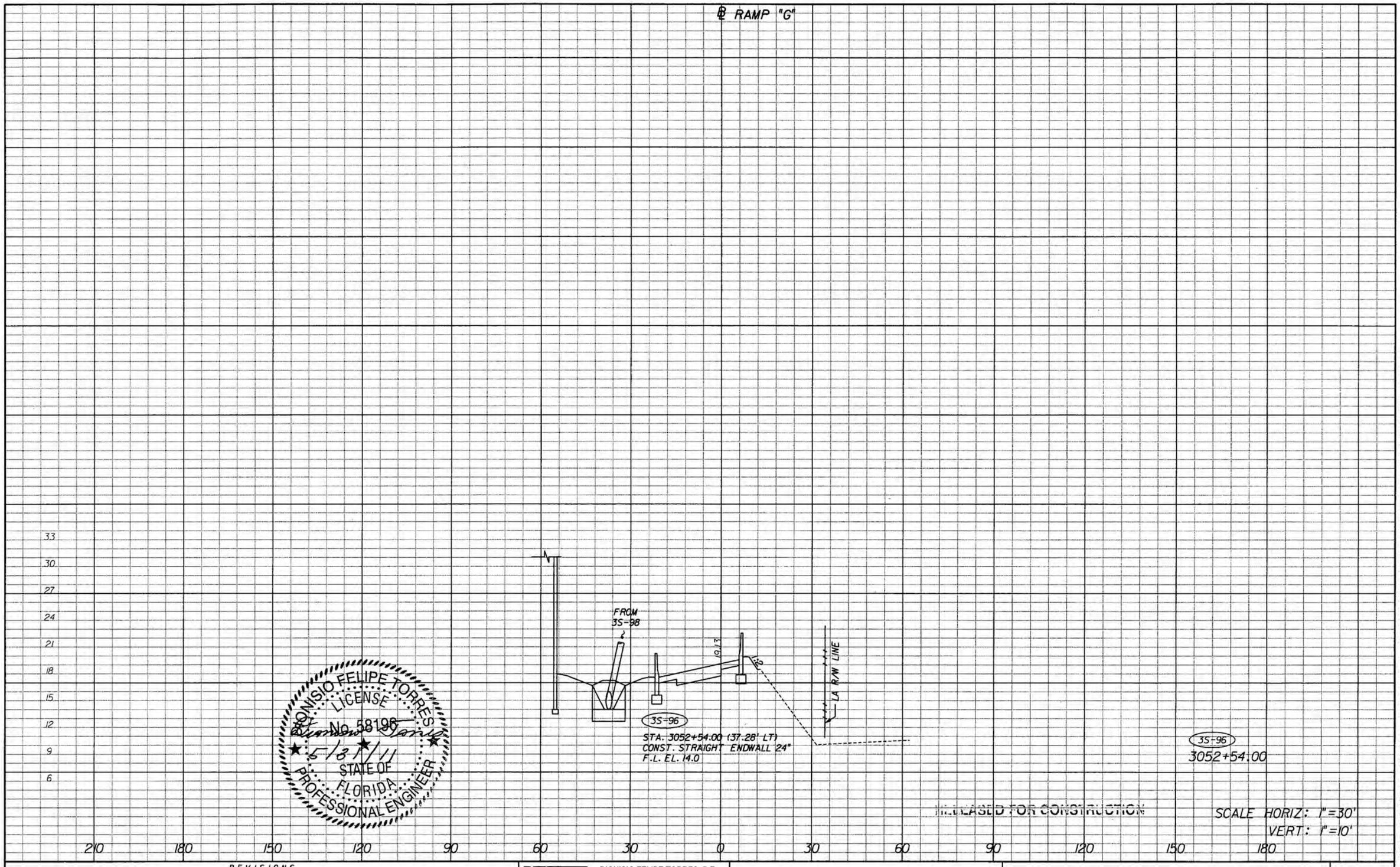
DRAINAGE STRUCTURES

SHEET NO. 4-107



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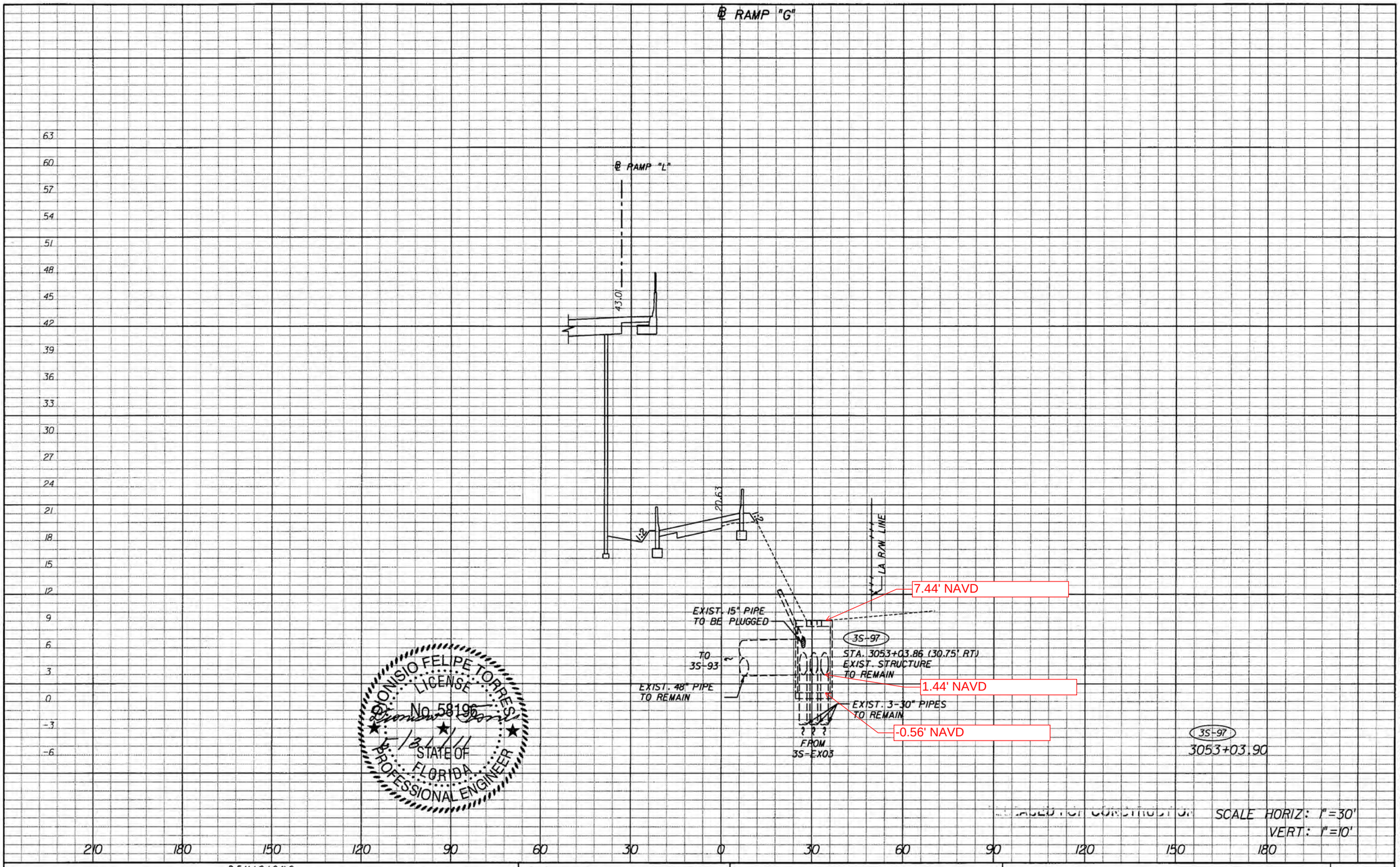
Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-108



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

bcc engineering

DIONISIO FELIPE TORRES, P.E.
P.E. License No. 58196
7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351
Certificate of Authorization No. 7184

STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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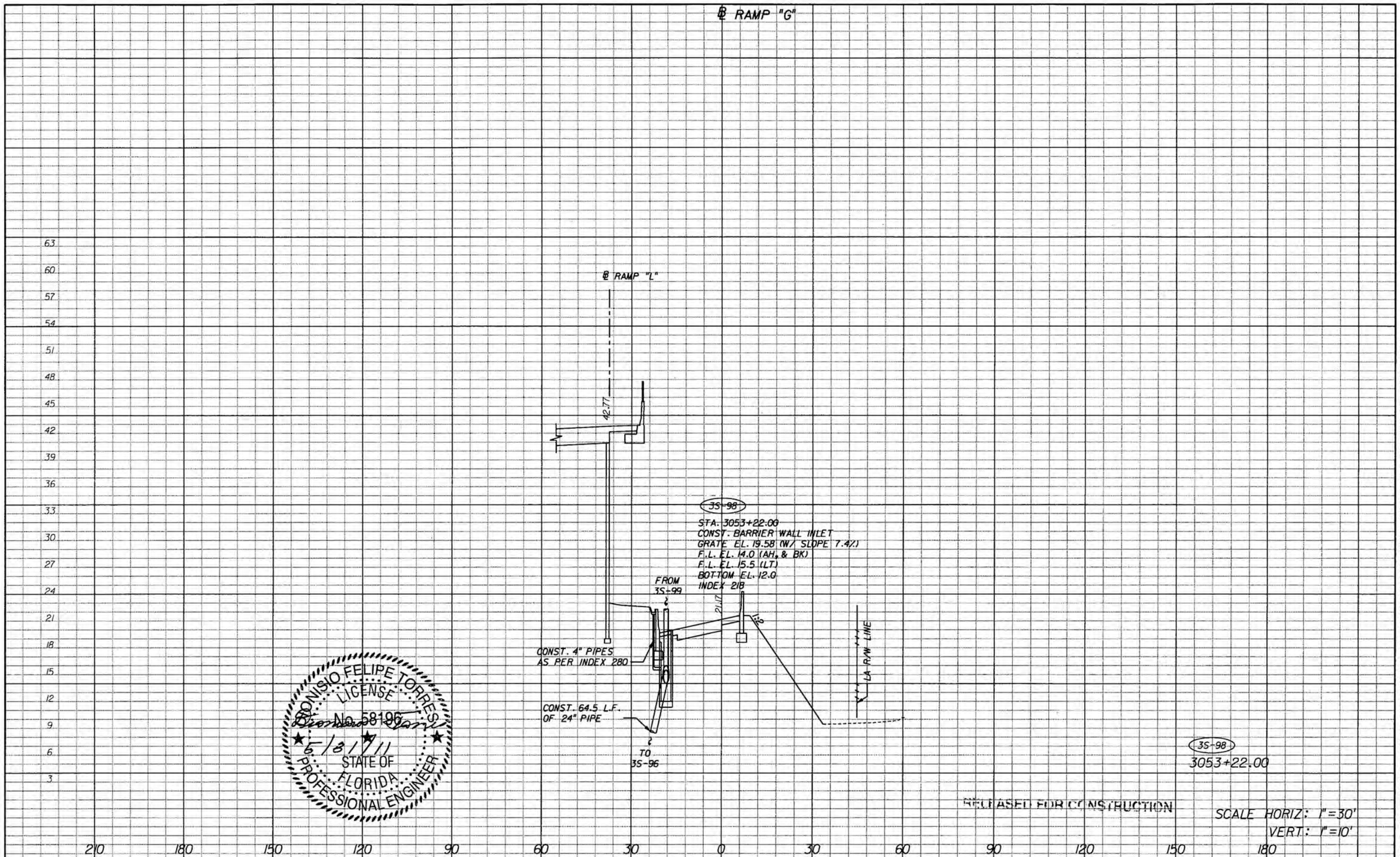
DRAINAGE STRUCTURES

SHEET NO.
4-109



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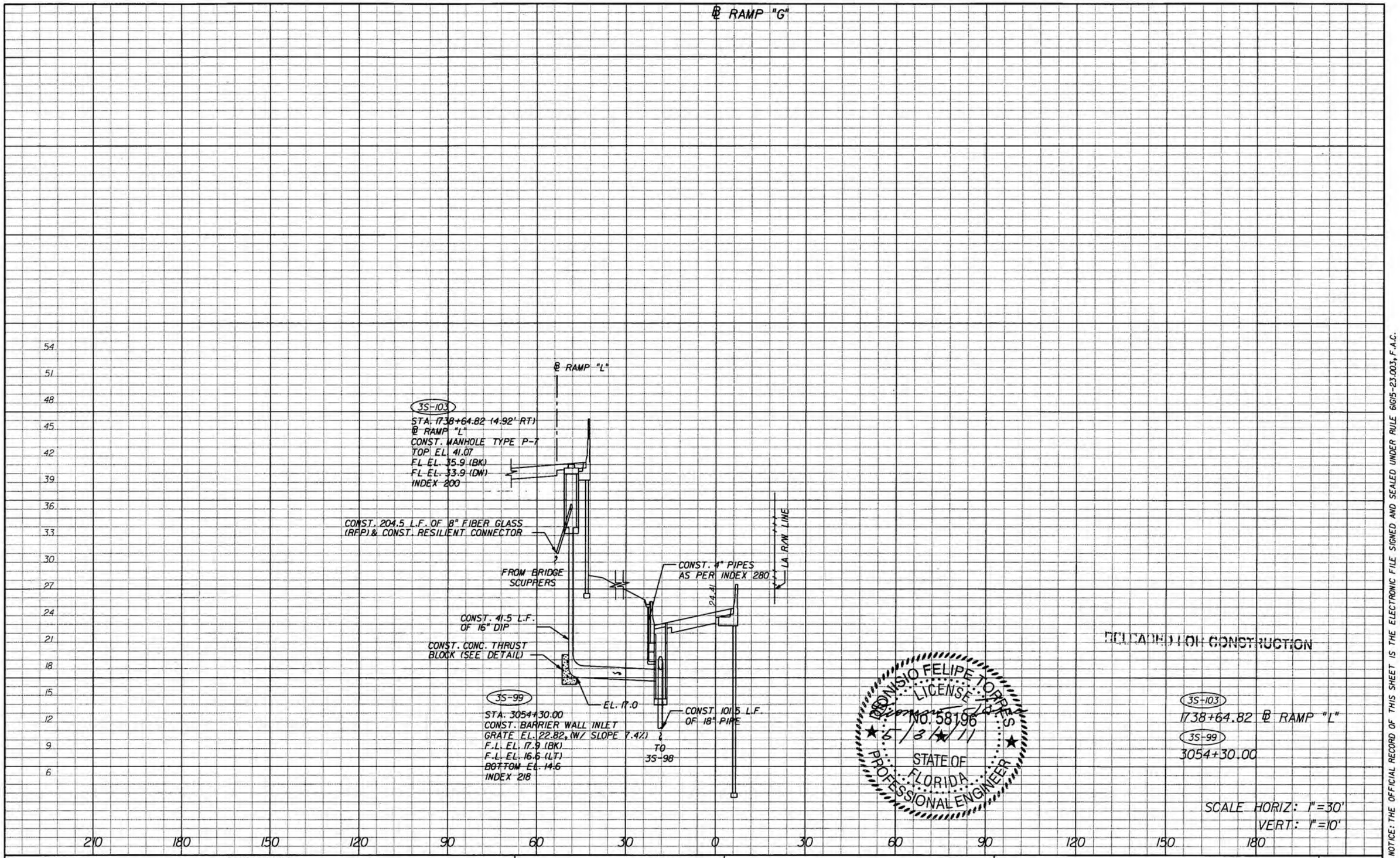
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-110



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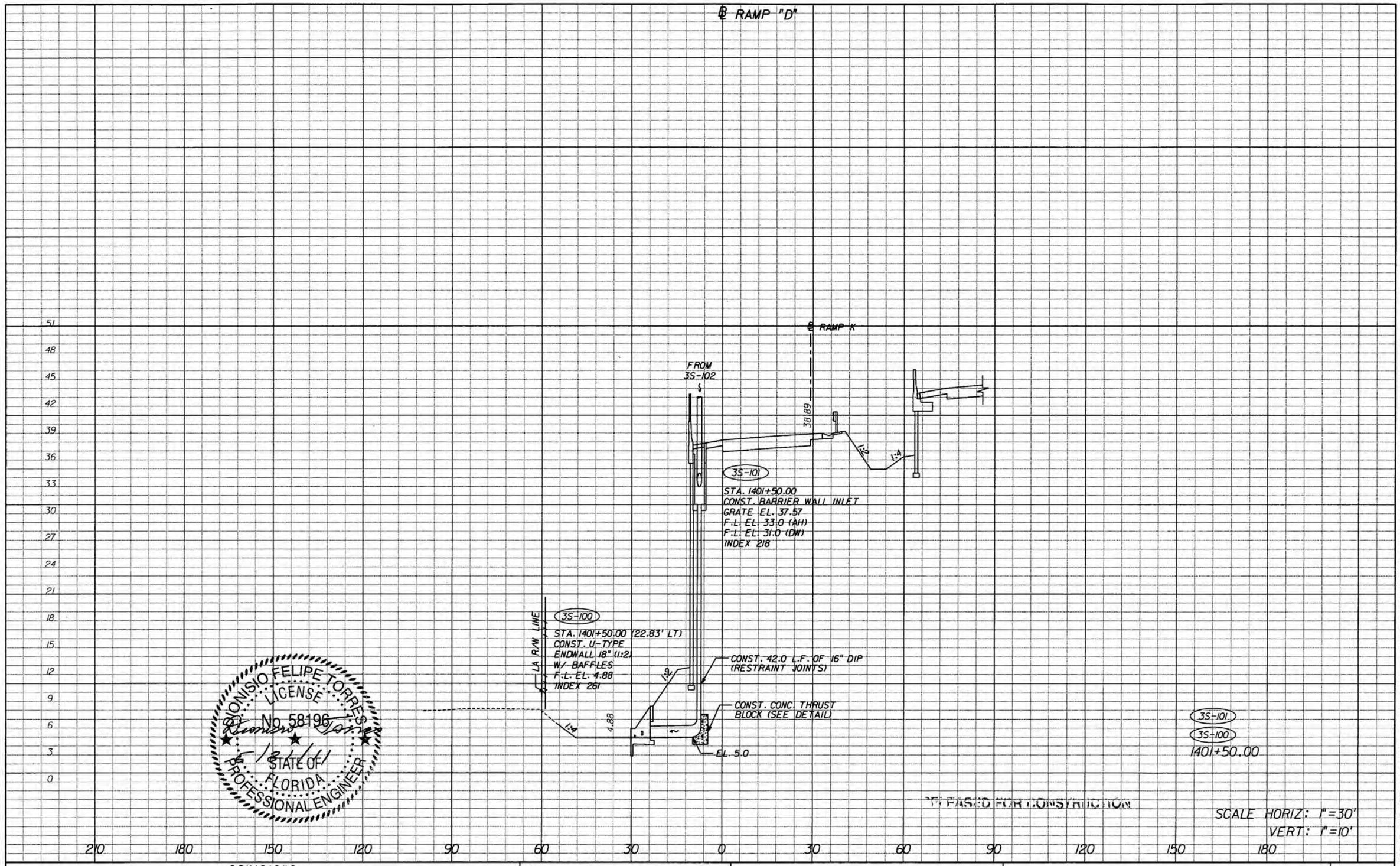
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO. 4-III



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REVISIONS			
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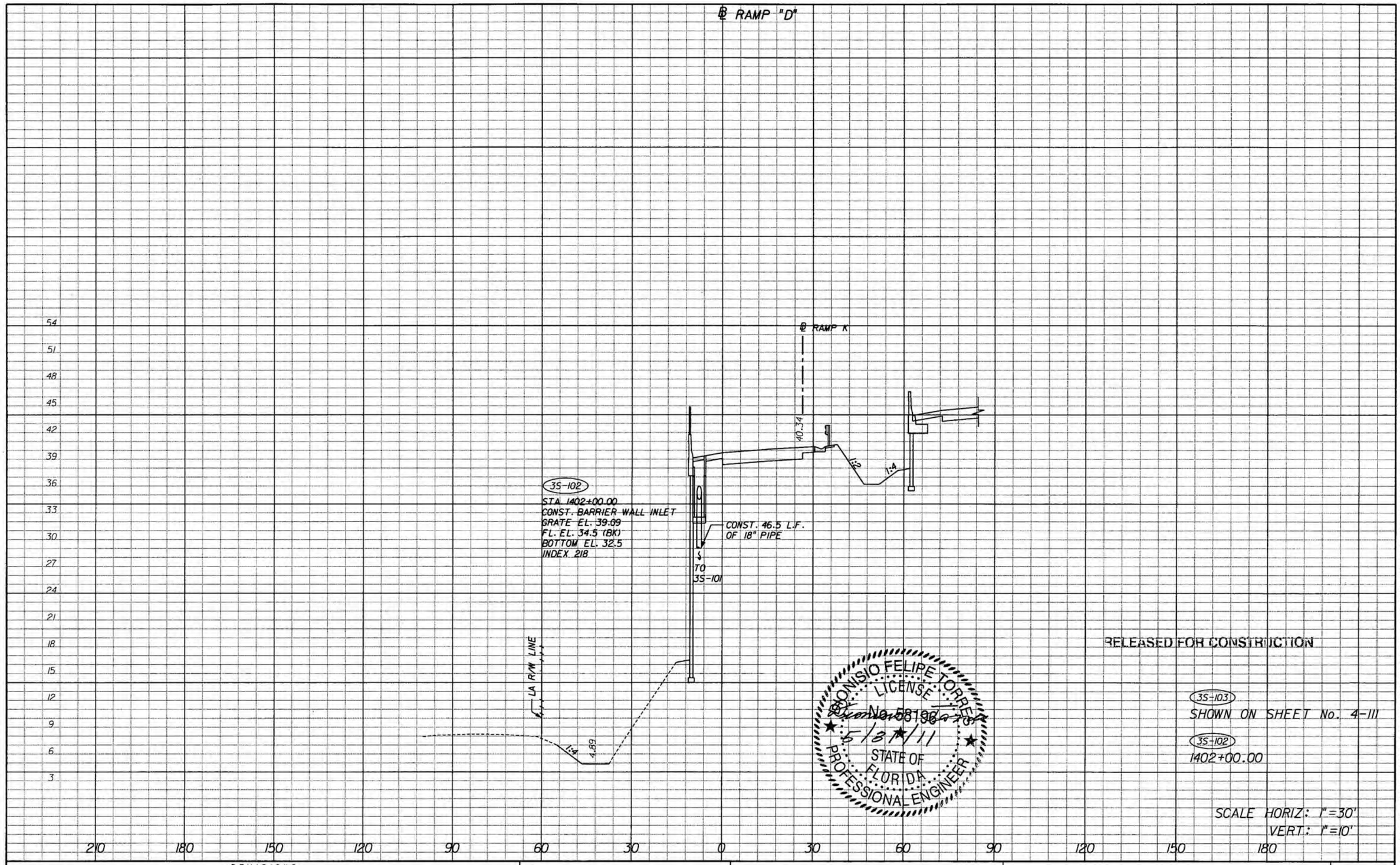
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
4-112

gdrogoni 5/26/2011 2:36:43 PM \\sqlserver\codd\249035\5201\Segment 4\drainage\drstrd04.dgn



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REVISIONS			
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bec engineering

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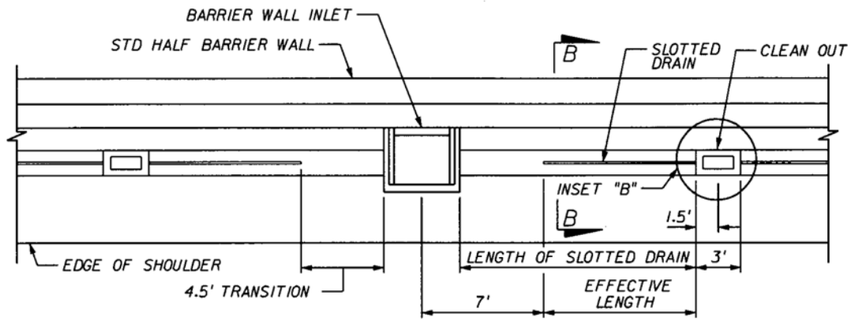
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

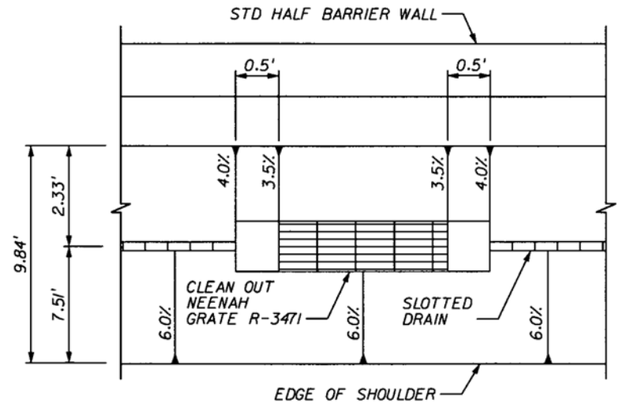
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

DRAINAGE STRUCTURES

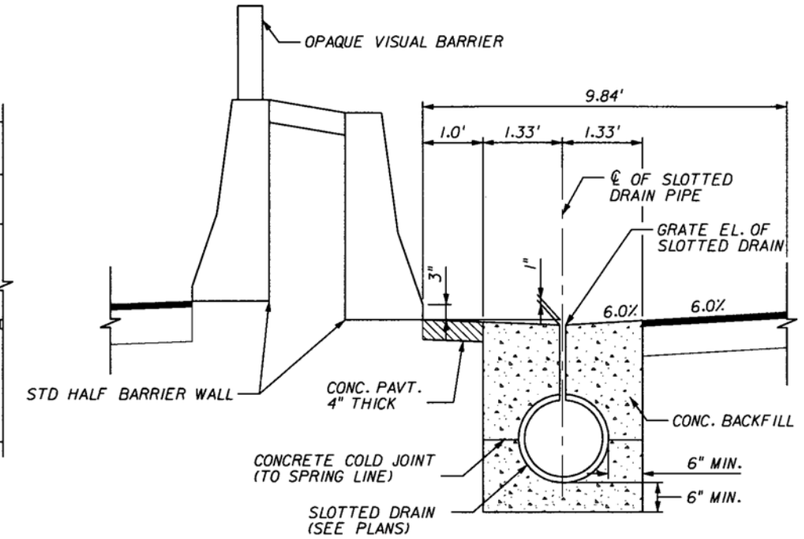
SHEET NO. 4-113



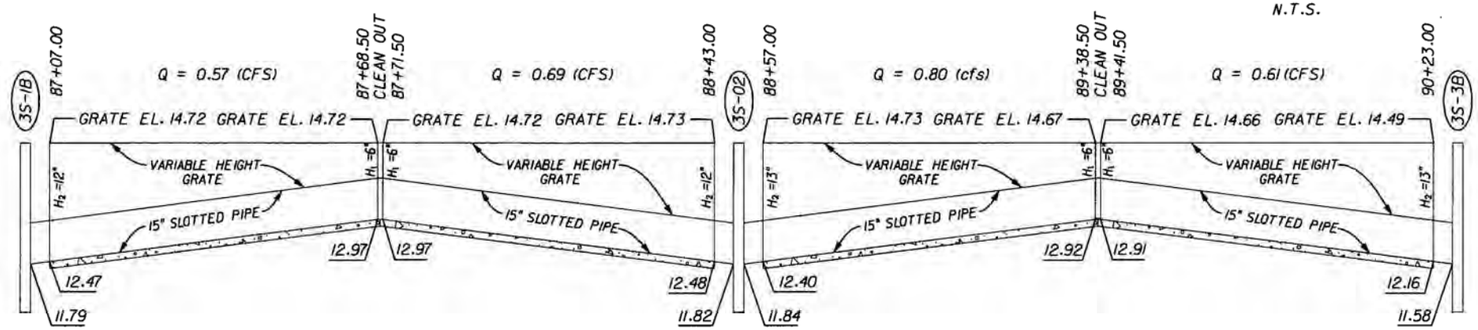
DRAINAGE LENGTH DETAIL
N.T.S.



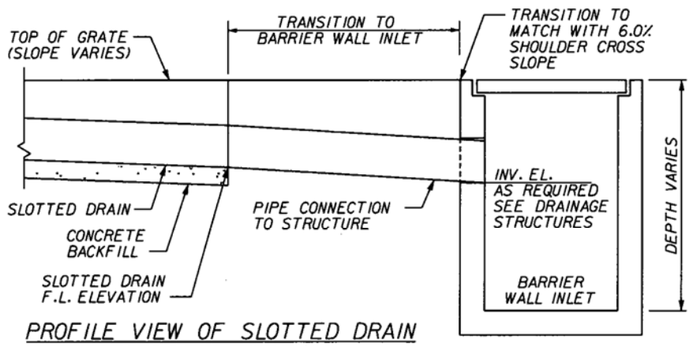
INSET "B"
SLOTTED DRAIN TRANSITION TO CLEAN OUT
N.T.S.



SLOTTED DRAIN SECTION B-B
(3S-1B), (3S-02), (3S-3B)
N.T.S.



SYSTEM 3 SLOTTED DRAIN
N.T.S.



PROFILE VIEW OF SLOTTED DRAIN
SYSTEM 3 AND 3A
(3AS-05), (3AS-08), (3S-1B), (3S-02), (3S-3B)
N.T.S.

NOTE:
"FROM STATION" AND "TO STATION" COLUMNS ARE ARRANGED ACCORDING WITH THE DIRECTION OF THE CENTER LINE, NOT WITH THE DIRECTION OF FLOW.

St. No.	Inlet Station.	Slotted Drain					Upstream			Downstream			
		Side	From STA.	To STA.	Effective Length	Size (in)	Grate	H_1 (in)	FL	Grate	H_2 (in)	FL	Slope %
3S-1B	87+00.00	AH	87+07.00	87+68.50	61.50	15	14.72	6	12.97	14.72	12	12.47	0.81
3S-02	88+50.00	BK	87+71.50	88+43.00	71.50	15	14.72	6	12.97	14.73	12	12.48	0.68
		AH	88+57.00	89+38.50	81.50	15	14.67	6	12.92	14.73	13	12.40	0.63
3S-3B	90+30.00	BK	89+41.50	90+23.00	81.50	15	14.66	6	12.91	14.49	13	12.16	0.91

RELEASED FOR CONSTRUCTION

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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Fax: (305) 670-2351
Certificate of Authorization No. 7184

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 4-114

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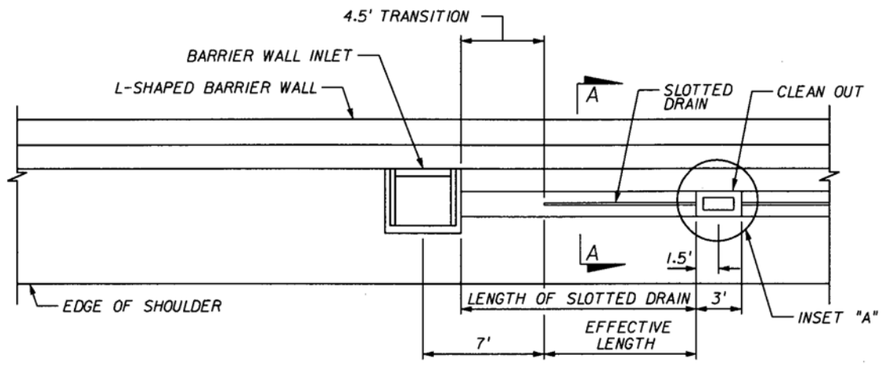
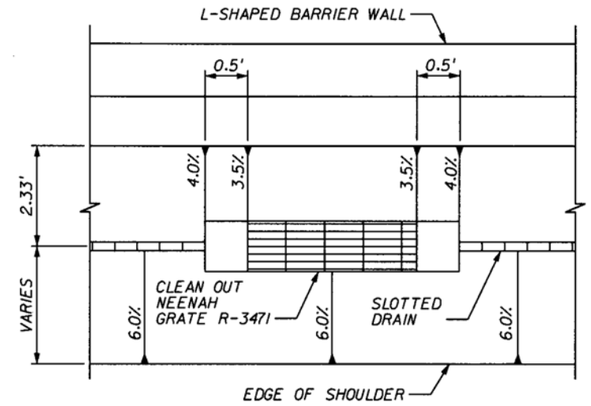
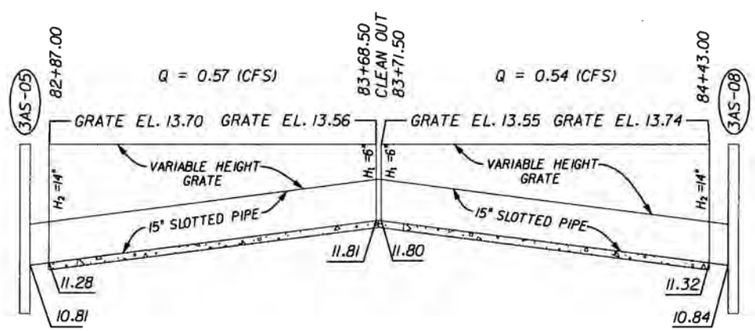


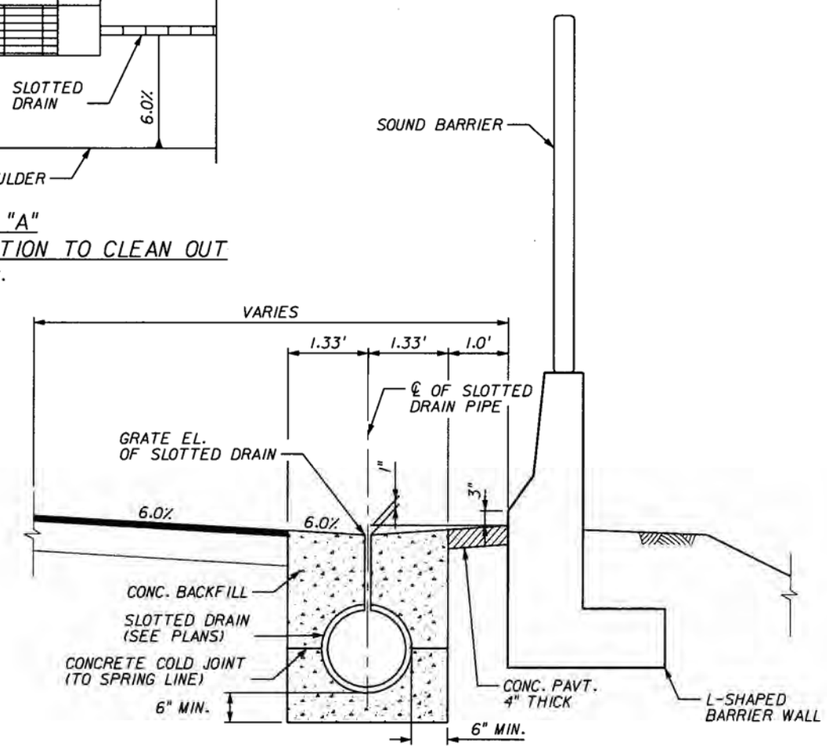
DRAINAGE LENGTH DETAIL
N.T.S.



INSET "A"
SLOTTED DRAIN TRANSITION TO CLEAN OUT
N.T.S.



SYSTEM 3A
SLOTTED DRAIN
N.T.S.



SLOTTED DRAIN SECTION A-A
3AS-05, 3AS-08
N.T.S.

NOTE:

FROM STATION AND TO STATION COLUMNS ARE ARRANGED ACCORDING WITH THE DIRECTION OF THE CENTER LINE, NOT WITH THE DIRECTION OF FLOW.

St. No.	Inlet Station.	Slotted Drain					Upstream			Downstream			
		Side	From STA.	To STA.	Effective Length	Size (in)	Grate	H_1 (in)	FL	Grate	H_2 (in)	FL	Slope %
3AS-05	82+80.00	AH	82+87.00	83+68.50	81.50	15	13.56	6	11.81	13.70	14	11.28	0.64
3AS-08	84+50.00	BK	83+71.50	84+43.00	71.50	15	13.55	6	11.80	13.74	14	11.32	0.67

DIONISIO FELIPE TORRES
LICENSE
No. 58196
5/8/11
STATE OF FLORIDA
PROFESSIONAL ENGINEER

RELEASED FOR CONSTRUCTION

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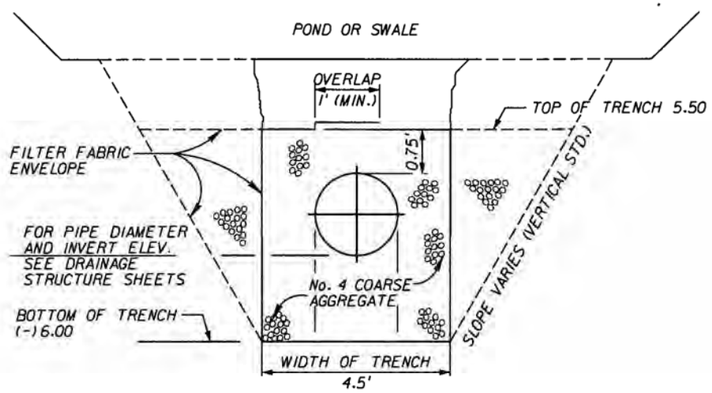
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
826	MIAMI-DADE	249035-1-52-01

MISCELLANEOUS
DRAINAGE DETAILS

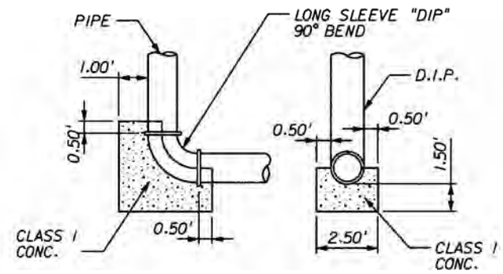
SHEET NO.
4-115



FRENCH DRAIN DETAIL

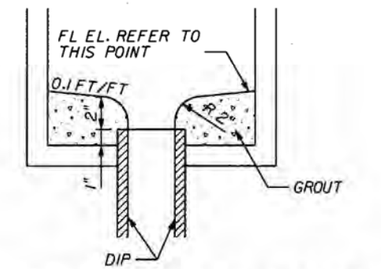
FOR ADDITIONAL DETAILS SEE INDEX NO. 285

N.T.S



THRUST BLOCK DETAILS

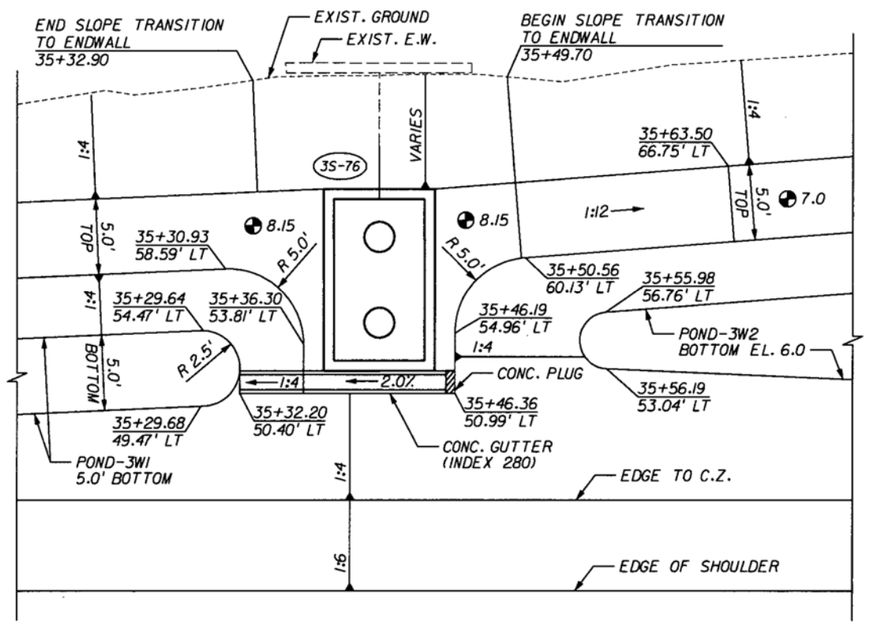
N.T.S.



NOTE: GROUT TO CONSIST OF 3:1 SAND & MIXTURE OR ANY CLASS OF CONCRETE.

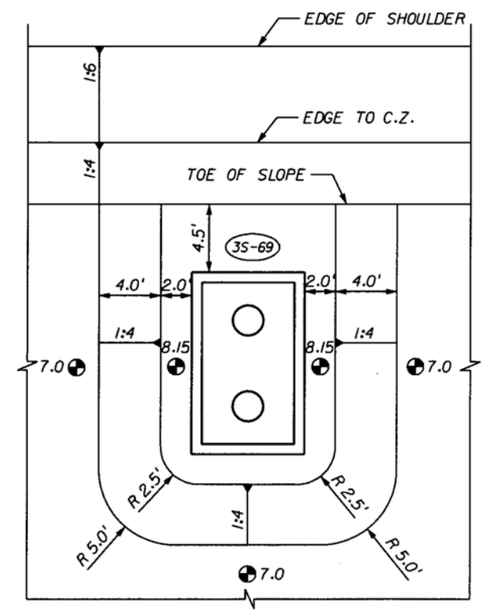
VERTICAL DRAIN STRUCTURE INVERT DETAIL

N.T.S



STRUCTURE 3S-76 PLAN VIEW

N.T.S



STRUCTURE 3S-69 PLAN VIEW

N.T.S

DIONISIO FELIPE TORRES LICENSE No. 58196 STATE OF FLORIDA PROFESSIONAL ENGINEER 6/27/11

RELEASED FOR CONSTRUCTION

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826	MIAMI-DADE	249035-1-52-01

MISCELLANEOUS DRAINAGE DETAILS

SHEET NO. 4-116

System 7B – Reference Data

Excerpts from SFMWD ERP No. 13-02434-P

Excerpts from FDOT Records Plans for FM No. 87409.030

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
STANDARD GENERAL PERMIT NO. 13-02434-P
DATE ISSUED:February 2, 2012

Form #0941
08/95

PERMITTEE: MIAMI DADE EXPRESSWAY AUTHORITY
3790 N W 21ST STREET
MIAMI, FL 33172

PROJECT DESCRIPTION: Modification of Environmental Resource Permit 13-02434-P to authorize construction and operation of a surface water management system to serve an 87.09 acre roadway project known as SR 874 Design Build, SW 88 Street to SW 56 Street (Phase 2).

PROJECT LOCATION: MIAMI-DADE COUNTY, SEC 22,27,28,32,33 TWP 54S RGE 40E

PERMIT DURATION: See Special Condition No:1. Pursuant to Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Notice of Intent for Permit Application No. 111107-1, dated November 7, 2011. This action is taken pursuant to Rule 40E-1.603 and Chapter 40E-40 , Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and an Environmental Resource General Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 19 General Conditions (See Pages : 2 - 4 of 6),
3. the attached 13 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 2 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on this 2nd day of February, 2012, in accordance with Section 120.60(3), Florida Statutes.

BY: Anita R. Bain

Anita R. Bain
Bureau Chief - Environmental Resource Permitting
Regulation Division

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373. F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to

GENERAL CONDITIONS

be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities

GENERAL CONDITIONS

which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on February 2, 2017.

2. Operation of the surface water management system shall be the responsibility of the permittee.

3. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.

4. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.

5. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

6. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.

7. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

8. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.

9. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.

10. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.

11. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

12. Reference is made to Exhibit No. 3, consisting of drainage maps, roadway plans, drainage details, and pond details. The drawings have been signed and sealed by a Florida Professional Engineer and have been incorporated in this permit by reference (please see permit file)..

13. Silt screens, turbidity screens/barriers or other such sediment control measures shall be utilized during construction. The selected sediment control measures shall be installed prior to the commencement of construction in or adjacent to other surface waters in accordance with Exhibit 2 and shall remain in place

SPECIAL CONDITIONS

until all adjacent construction is completed. All areas shall be stabilized and vegetated immediately after construction to prevent erosion into the surface waters.

NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does <u>not</u> constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office**. An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

Initiation of an Administrative Hearing
Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation
The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-.405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW
Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

Last Date For Agency Action: February 25, 2012

GENERAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: Sr 874 Design Build, Sw 88 St To Sw 56st (Phase 2) 874090-2

Permit No.: 13-02434-P

Application No.: 111107-1

Application Type: Environmental Resource (General Permit Modification)

Location: Miami-Dade County, S22,27,28,32,33/T54S/R40E

Permittee : Miami Dade Expressway Authority

Operating Entity : Permittee

Project Area: 87.09 acres

Project Land Use: Highway

Drainage Basin: C-2

Receiving Body: C-2

Special Drainage District: NA

Conservation Easement To District : No

Sovereign Submerged Lands: No

PROJECT PURPOSE:

This application is a request for modification of an Environmental Resource Permit to authorize construction and operation of a surface water management system to serve an 87.09 acre roadway project known as SR 874 Design Build, SW 88 Street to SW 56 Street (Phase 2).

PROJECT EVALUATION:

PROJECT SITE DESCRIPTION:

The project is located along SR 874 (Don Shula Expressway) from SW 88 Street (SR 94/Kendall Drive) north to SW 56 Street (Miller Drive) in Miami-Dade County.

PROJECT BACKGROUND:

A conceptual Environmental Resource Permit, 13-02434-P, was issued in November 2004 for the design of the overall SR 874 corridor from SW 117th Avenue to SW 87th Avenue. Application No. 100518-2 was submitted for a modification of the conceptual permit for widening from SW 88th Street to SW 56th Street. This application was withdrawn in December, 2011 because the Miami-Dade Expressway Authority decided to re-advertise the project.

Construction of the current project is scheduled for two phases. An Environmental Resource Permit modification for Phase 1 (Application No. 110829-13), which included construction of bridge pilings and pile caps, was approved in November, 2011. This current application is for Phase 2, the construction and operation of a surface water management system for widening of SR 874 within the limits of SW 88th Street and SW 56th Street.

PROPOSED PROJECT:

This application is a request for modification of Environmental Resource Permit 13-02434-P to authorize construction and operation of a surface water management system to serve an 87.09 acre roadway widening project known as SR 874 Design Build, SW 88 Street to SW 56 Street (Phase 2). The proposed project includes widening the roadway to provide additional travel lanes, both eastbound and westbound. The project also includes the addition of two turn lanes to the SR 874 southbound off-ramp at Kendall Drive, the re-alignment of SR 874 southbound ramp L at the SR 874/SR 878 interchange, and the widening of the bridges over the C-2 Canal, SR 986 (Sunset Drive), SW 87th Avenue (Galloway Road) - CSX Railroad (Seaboard Coast Line), and SW 56th Street (Miller Drive).

The proposed surface water management system will include dry retention, dry detention and exfiltration trenches. The detention pond will discharge into the C-2 Canal. Calculations were submitted to demonstrate that the post development discharge for the design storm will not exceed existing conditions.

LAND USE:

The following table represents the pavement and pervious areas for the entire SR 874 corridor of 87.09 acres. This represents the total area along SR 874 from SW 88 Street to SW 56 Street. The additional pavement for the roadway widening will be 8.90 acres.

Construction:
Project:

	Total Project	
Pavement	47.34	acres
Pervious	39.75	acres

	Total Project
Total:	87.09

WATER QUANTITY :

Discharge Rate :

The engineer has submitted calculations that indicate that the post-development discharge does not exceed the pre-development discharge for the 25 year, 3 day storm event.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD 29)	WSWT Ctrl Elev (ft, NGVD 29)	Method Of Determination
Site	87.09	3.5	3.50	Wet Season Wtr Table Contour Map

WATER QUALITY :

Water quality treatment will be provided within dry detention and dry retention ponds for the new impervious area as well as portions of the existing impervious area.

To ensure that proposed construction activities do not degrade the other surface waters and the adjacent offsite area, the applicant will install and maintain temporary silt fences and turbidity barriers around the limits of construction as shown in Exhibit 2 and as stipulated in Special Condition 13 of this permit. The temporary erosion control barriers will be installed prior to and will be removed upon completion of construction activities.

Basin	Treatment Method		Vol Req.d (ac-ft)	Vol Prov'd
Site	Treatment	Dry And Wet Retention	9.86	9.86

WETLANDS:

There are no wetlands located within or adjacent to the project area to be affected by the proposed road construction.

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

It is suggested that the permittee retain the services of a Professional Engineer registered in the State of Florida for periodic observation of construction of the surface water management (SWM) system. This will facilitate the completion of construction completion certification Form #0881 which is required pursuant to Section 10 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, and Rule 40E-4.361(2). Florida Administrative Code (F.A.C.).

Pursuant to Chapter 40E-4 F.A.C., this permit may not be converted from the construction phase to the operation phase until certification of the SWM system is submitted to and accepted by this District. Rule 40E-4.321(7) F.A.C. states that failure to complete construction of the SWM system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization unless

a permit extension is granted.

For SWM systems permitted with an operating entity who is different from the permittee, it should be noted that until the permit is transferred to the operating entity pursuant to Rule 40E-1.6107, F.A.C., the permittee is liable for compliance with the terms of this permit.

The permittee is advised that the efficiency of a SWM system will normally decrease over time unless the system is periodically maintained. A significant reduction in flow capacity can usually be attributed to partial blockages of the conveyance system. Once flow capacity is compromised, flooding of the project may result. Maintenance of the SWM system is required to protect the public health, safety and the natural resources of the state. Therefore, the permittee must have periodic inspections of the SWM system performed to ensure performance for flood protection and water quality purposes. If deficiencies are found, it is the responsibility of the permittee to correct these deficiencies in a timely manner.

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that dewatering is not required for construction of this project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

CERP:

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Potable Water Supplier:

N/A

Waste Water System/Supplier:

N/A

Right-Of-Way Permit Status:

A District Right-of-Way Permit (3887) was issued for this project.

DRI Status:

This project is not a DRI.

Historical/Archeological Resources:

The District has received correspondence from the Florida Department of State, Division of Historical Resources indicating that no significant archaeological or historical resources are recorded in the project area and therefore is unlikely to have an effect upon any such properties.

DEO/CZM Consistency Review:

The issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

Third Party Interest:

No third party has contacted the District with concerns about this application.

Enforcement:

There has been no enforcement activity associated with this application.

STAFF REVIEW:

DIVISION APPROVAL:

NATURAL RESOURCE MANAGEMENT:

Barbara J. Conmy

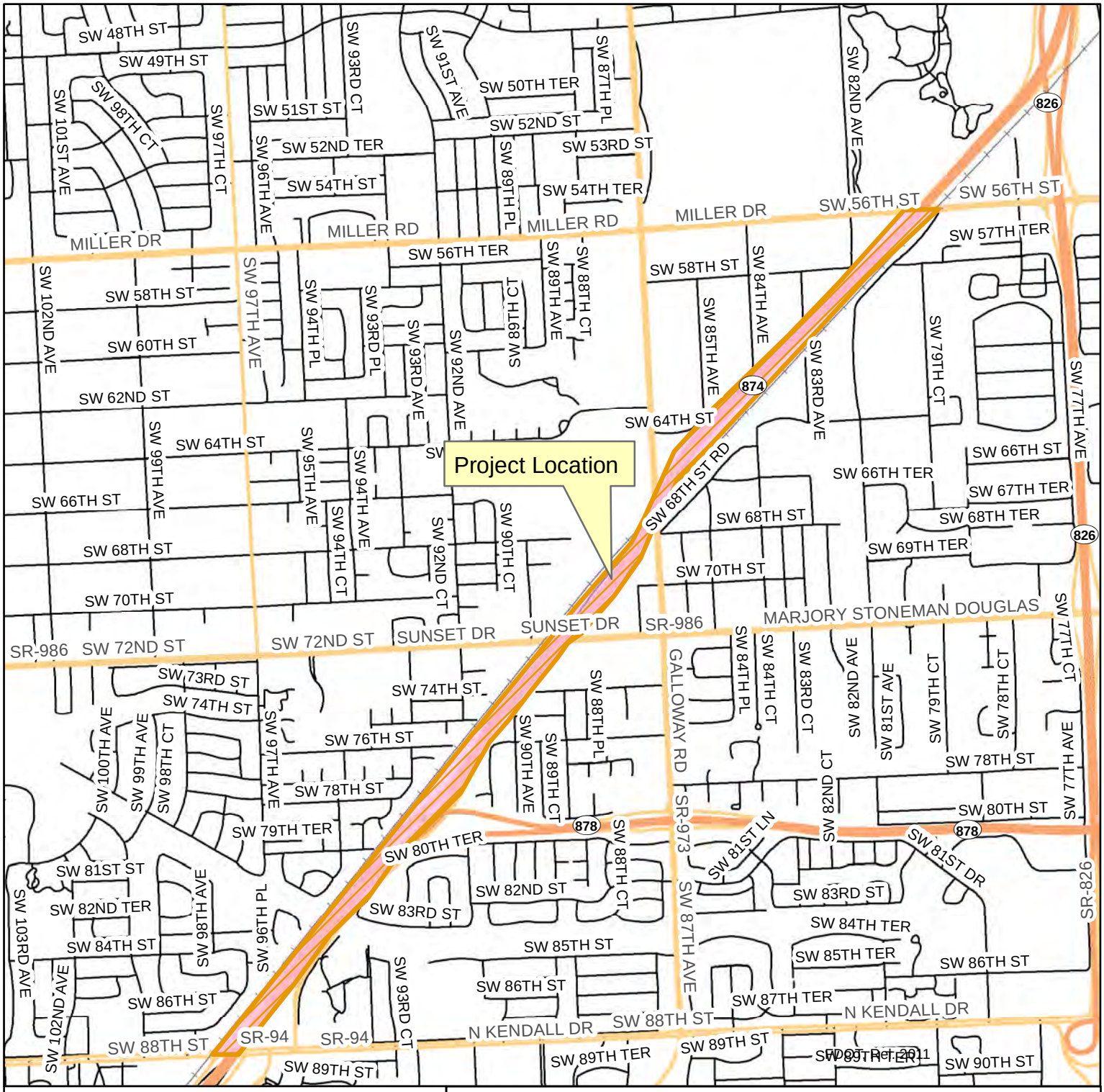
DATE: 1/31/12

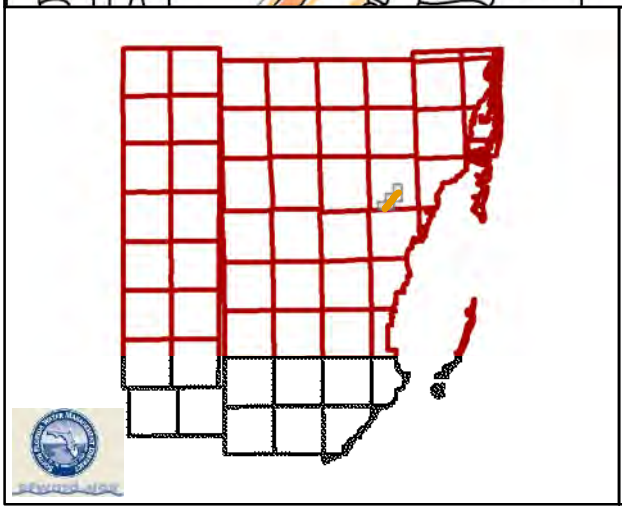
Barbara J. Conmy

SURFACE WATER MANAGEMENT:

DATE: 1/31/12

Carlos A. de Rojas, P.E.





MIAMI-DADE COUNTY, FLORIDA

N

Legend

Application

Map Date: 2012-01-27

Application Number: 111107-1

Permit Number: 13-02434-P

Sec 22,27,28,32,33 / Twp 54 / Rge 40

Project Name: Name: SR 874 DESIGN BUILD, SW 88 ST TO SW 56ST (PHASE 2) 874090-2

0 0.4 0.8 Miles

Exhibit 1

MDX PROJECT No.
87409.030

MIAMI-DADE EXPRESSWAY AUTHORITY

MDX PROJECT No 87409.030

MIAMI-DADE COUNTY (87005)

STATE ROAD NO. 874

SR 874 (DON SHULA EXPRESSWAY) ROADWAY IMPROVEMENTS
FROM KENDALL DRIVE TO MILLER DRIVE (SW 56TH STREET)

STORM WATER POLLUTION PREVENTION PLANS

MDX EXECUTIVE DIRECTOR: JAVIER RODRIGUEZ, P.E.
MDX DIRECTOR OF ENGINEERING: ALFRED LURIGADOS, P.E.
MDX ASSISTANT DIRECTOR OF ENGINEERING: JUAN TOLEDO, P.E.
MDX GEC PROJECT MANAGER: GIL PORTELA, P.E.

INDEX OF STORM WATER POLLUTION PREVENTION PLANS

SHEET NO.	SHEET DESCRIPTION
SW-1	KEY SHEET
SW-2 - SW-3	GENERAL NOTES
SW-4 - SW-17	STORM WATER POLLUTION PREVENTION PLANS

STORM WATER POLLUTION PREVENTION SHOP DRAWINGS TO BE SUBMITTED TO:

JUAN M. RESTREPO, P.E.
901 PONCE DE LEON BLVD. SUITE 900
CORAL GABLES, FL, 33134

PLANS PREPARED BY:

901 PONCE DE LEON BLVD.
SUITE 900
CORAL GABLES, FL 33134
CERTIFICATE OF AUTHORIZATION 0005022
VENDOR NO. 650039493001

MANUEL RESTREPO JUAN
No. 61821
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOTE: THE "SEALED" PLANS MAY HAVE CHANGED SINCE REPRODUCTION.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

STORM WATER POLLUTION PREVENTION PLANS
ENGINEER OF RECORD: JUAN M. RESTREPO, P.E.

P.E. NO.: 61821

FISCAL YEAR	SHEET NO.
12	SW-1

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1.0 SITE DESCRIPTION

1.a. Nature of construction activity:

The project consists of improvements to Don-Shula Expressway (SR874) from Kendall Drive (SW 88th Street) to north of Miller Drive (SW 56th Street) (approximately 2.9 miles) in Miami Dade County, Florida. The roadway improvements will consist of widening, full strength overlay, milling and resurfacing, bridge widening, storm drainage, construction of noise wall signing and pavement marking and lighting. The project corridor is located in Sections 22, 27, 28, 32, 33 and 34, Range 40, Township 54.

1.b. Sequence of major soil disturbing activities:

Phase 1:

Construct temporary pavement and embankment along existing Ramp L and near the Kendall exit. Overbuild existing shoulders along mainline as needed, place barrier wall on the outside and shift towards the median. Construct all possible permanent construction on the outside. This includes all wall and structure widening. Prepare Ramp L for traffic shift from existing to the newly constructed.

Phase 2:

Upon completion of Phase 1 move temporary barrier wall as needed and shift traffic (not needed for the entire project length). Move traffic from existing Ramp L to newly constructed Ramp L. Complete all median work along the mainline and bridge widening and railing retrofits. Once this is complete mill and resurface existing pavement during off-peak hours along mainline and ramps as required.

1.c. Total project area estimates:

Total project site area: 91.61 acres

Total area to be disturbed: 85.85 acres

Total area of clearing and grubbing: 33.33 acres

New impervious area: 11.17 acres

1.d. Runoff data:

Runoff coefficients:

Before Construction: 0.55

During Construction: Varies From 0.55 To 0.63

After Construction: 0.63

The existing stormwater detention ponds and roadside drainage ditches and exfiltration trenches will provide water quality treatment and compensate for the additional stormwater runoff generated due to the increased impervious surface.

Soils data:
The soils data and the Miami Dade County Soil Survey is included on the Roadway Soil Survey Sheet Construction Plans or in the South Florida Water Management District permit package.

Drainage areas for each outfall:

OUTFALL STRUCTURE #	SIZE (ACRE)	LATITUDE	LONGITUDE	SURFACE WATER
Exist. 24" Pipe	8.36	25°41'30" N	80°20'45" W	C-2 CANAL
Exist. 58"x 91" Box	59.40	25°41'30" N	80°20'45" W	C-2 CANAL
Exist. outfall	35.26	25°43'00" N	80°19'30" W	LAKE PATRICIA

1.e. Site map:

The construction plans will substitute as site maps. Locations of the required information are described below:

Drainage Patterns: Refer to drainage maps.

Approximate Slopes: The approximate side slopes can be seen on the typical sections.

Areas of Soil Disturbance: The areas to be disturbed are indicated on the typical section. Any areas where permanent features are shown to be constructed above or below ground will be disturbed.

Areas Not to be Disturbed: For the purpose of this plan, it is reasonable to say that areas beyond clearing and grubbing shown in the typical sections will not be disturbed.

Locations of Controls: The erosion control devices shall be in accordance with Index 102. All existing inlets and outfall locations shall be protected within the limits of the project.

Areas to be Stabilized: Area to be stabilized are shown in the typical sections.

1.f. Receiving waters
The receiving waters for this project are adjacent drainage ditches, Snapper Creek Canal (Canal C2) and Lake Patricia.

2.0 CONTROLS TO REDUCE POLLUTANTS

2.a. Erosion and sediment controls:
The following discussion defines general guidelines for the sequence of construction, the use of stabilization, and structural practices. Refer to section 1.b. for the sequence of soil disturbing activities.

Erosion Control Plans:
The soil and sediment controls shall be placed as indicated in the plans and shall be maintained by the Contractor to minimize the amount of soil disturbed, prevent off-site runoff from discharging across disturbed areas and remove on-site sediment prior to discharge of runoff from the site.

Phases:

All items represented in the following discussion are treated in detail in the "Florida Department of Transportation Standard Specification for Road and Bridge Construction (latest edition). The Contractor will be required to modify the plan or materials to adapt to seasonal variations. The delineated measures are the minimum required, with additional controls to be utilized as needed, dependent upon actual site conditions and construction activities.

SWPPP Activity:

- Install Sediment Barrier/Type III staked silt fencing along R/W lines and as shown on the Stormwater Pollution Prevention Plans.
- Install Floating Turbidity Barrier at C-2 canal and Lake Patricia as shown on the Stormwater Pollution Prevention Plans.
- Install and maintain portable toilets for sanitary waste.
- Install filter fabric inlet protection system/ staked synthetic bales, per index no. 102, around existing inlets.
- Install soil tracking prevention devices at construction equipment entry/exit points as defined by the Contractor.
- Maintain and remove erosion control features according to SWPPP requirements.

All fencing, grading, sloping, grassing and other erosion control shall be maintained during the contract life. All damaged work shall be repaired as determined by the Engineer at no cost to the Department.

JUAN M. RESTREPO LICENSE No. 61821 STATE OF FLORIDA PROFESSIONAL ENGINEER

2.a.1 Stabilization practices:

All areas disturbed during the construction of the facilities shall be stabilized using one of the following methods:

Temporary:

Seeding and mulching or sodding in accordance with Specification Section 104.

Permanent:

N/A

Landscaping:

Sod in accordance with Specification Section 575.

All stabilization practices shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site that has temporarily or permanently ceased.

2.a.2 Structural Practices:

Temporary:

Filter fabric inlet protection system/ synthetic bales in accordance with Index 102, Specification Section 104.

Sediment barrier/ Silt fencing along top of canal bank where there is no berm along canal or no roadside drainage system (e.g swale with inlets).

Floating/staked turbidity barrier in the receiving water body (C-2 and lake Patricia).

All sediment controls shall be in place prior to any soil disturbing activity upstream of the control.

Permanent:

Stormwater pond, drainage ditches and Exfiltration trenches.

2.b STORMWATER MANAGEMENT:

Stormwater will be stored in a combination of stormwater drainage ditches proposed stormwater/treatment pond and Exfiltration trenches. Pollution control structures installed as part of the permanent drainage system will function as pollution control devices during construction.

2.c OTHER CONTROLS

2.c.1 Waste Disposal:
The Contractor shall provide litter control and collection of materials within the project boundaries during construction on a daily basis. All fertilizer, hydrocarbon, or other chemical containers shall be disposed of by the Contractor in accordance with EPA's standard practices. No solid material including building and construction material shall be disposed of, discharged or buried on site.

2.c.2 Off-site Vehicle Tracking / Dust Control:
Loaded haul trucks shall be covered with a screen. Excess dirt material on the roads shall be removed immediately. Hauling on unpaved surfaces shall be monitored to minimize dust and control erosion. Haul roads and staging areas shall be watered to reduce dust, as dictated by site conditions.

2.c.3 Sanitary Waste:
The Contractor shall provide portable sanitary waste facilities. These facilities will be collected or emptied by a licensed sanitary waste management contractor as required by state of Florida regulations.

2.c.4 Fertilizers and Pesticides:
The application of fertilizers shall be accomplished in a manner described by the manufacturer or engineer to ensure proper installation and to avoid over fertilizing. The use of pesticides are not anticipated for this project. Fertilizer should not be used within 50' of a wetland or surface water feature.

2.c.5 Correctly Approved State and Local Plans and Permits:
I. National Pollution Discharge Elimination System (NPDES) permit from Florida Department of Environmental Protection (FDEP)
II. Dade County Department of Environmental Resource Management (DERM) class II-Stormwater Management Permit
III. South Florida Water Management District's Environmental Resource Permit Rules 40E-4 & 40E-40 FAC

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD: JUAN M. RESTREPO, P.E. NO.: 61821
C3TS, PA
601 PONCE DE LEON BLVD., SUITE 600
CORAL GABLES, FLORIDA 33134
MIAMI (305) 445-2600 FLORIDA (800) 445-0227
CERTIFICATION OF AUTHORIZATION NO. 00000822

MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-2

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3.0 MAINTENANCE:

ITEM	MAINTENANCE	PROPOSED REPLACEMENT INTERVAL
Curb Inlets	Refer to Index # 102	N/A
Sediment Barrier/ Silt Fence	In accordance with Specification Section 104-6.4.8.3 Replace when fabric is ripped if debris has reached 1/2 of the capacity of the silt fence, or otherwise ineffective.	3 months or as required
Sod	Keep the sod in moist condition for the duration of the contract period and in no case less than two weeks.	Replace as required
Filter fabric/ Inlet Protection System	Remove sediment when it reaches 1/3 the height of the bag.	As required
Sediment Barrier/ Staked Synthetic Bales	Remove sediment when it reaches 1/3 the height of the bales	3 months or as required
Floating/Staked Turbidity barrier		As per section 104

The Contractor will be responsible for the maintenance and repairs of erosion and sediment control devices as per Section 104 of the FDOT Standard Specifications for Road and Bridge Construction. The maintenance of these devices will occur until the Engineer has deemed an area permanently stabilized. It will be the responsibility of the Contractor to remove all temporary erosion and sediment control devices once they have served their purpose.

The following practices will be used to maintain erosion and sediment controls:
The Contractor shall install and maintain rain gauges on the project site.

All erosion control measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of the report.

Structural Practices Controls: Built up sediment/debris will be removed from rock bags, staked synthetic bales and/or silt fencing when it reaches one-third the height of the barrier or in the event water flow is impeded.

Temporary and permanent sodding will be inspected and repaired for bare spots, washouts, and healthy growth.

4.0 INSPECTION SCHEDULE:

The Contractor shall be required to conduct daily visual inspections of all temporary and permanent stabilization measures along the project corridor. The Contractor shall be expected to repair and/or replace these items as necessary.

The Contractor shall appoint a qualified storm water inspector (a person who is qualified through the FDEP Stormwater, Erosion and Sedimentation Control Inspector Training Program) to review the project's temporary and permanent stabilization measures for the items listed below at least once every seven calendar days and/or within 24 hours of the end of a storm that is 0.50 inches of rain or greater. Where sites have been stabilized, inspections shall be conducted at least once every month, unless otherwise specified in the permit conditions.

1. Outfalls into the Stormwater Pond, Canals, lakes, etc.
2. Disturbed areas of the site that have been completed and stabilized
3. Areas used for storage of materials that are exposed to precipitation
4. Structural controls
5. Stormwater management systems
6. Locations where vehicles enter or exit the site
7. Check that the approved or revised Erosion Control Plan is being followed

The FDOT Storm Water Pollution Prevention Plan Construction Inspection Report (Form # 650-040-03) shall be used to report the inspection findings to the Contractor as per the above referenced schedule. This inspection form should be signed by a certified FDEP Stormwater Inspector. If corrective action is necessary, it shall be recorded on the inspection report. It shall be the responsibility of the Contractor to make the corrections within a 24 hour period or as directed by the Engineer.

5.0 NON-STORMWATER DISCHARGES (INCLUDING SPILL REPORTING):

The contractor is responsible for documenting this portion of the SWPPP in the section 104 Erosion Control Plan. If contaminated soil or ground water is encountered, contact Mauricio Gomez, District Hazardous Materials Coordinator at (305) 470-5228

If the Contractor determines that dewatering is necessary, it is the Contractor's responsibility to develop a dewatering system that provides pre-treatment of effluent prior to discharge into adjacent surface waters and acquire the necessary dewatering (consumptive use) permits required by law. The Contractor's dewatering method must meet all Federal, State and Local laws, rules and regulations concerning this practice including the use of permitted outfall structures. The Contractor shall develop a plan to dispose of slurry material from the installation of mailbox and overhead sign truss foundations. Sediment removed from swale inlets during construction shall be disposed of in designated stockpile locations selected by the Contractor.

6.0 CONTRACTOR'S SUBMITTALS

It is the responsibility of the Contractor to develop an Erosion Control Plan that provides a detailed description of all erosion and sediment controls, Best Management Practices, and measures that will be implemented at the construction site for each activity identified in Section 1.b. Sequence of Soil Disturbing Activities. Contractor is responsible for providing timeframes in which the controls will be implemented, maintained and removed. This information shall be kept at the project field office in order for the project to be considered in compliance with the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Sites.

The Contractor is responsible for ensuring the following items are on site:

1. Copy of the Stormwater Pollution Prevention Plan with the original certification signatures.
2. Copy of the Contractor's Erosion Control Plan.
3. Hazardous Spill Control Plan with guidelines on contacting the 24 hour emergency response program for hazardous material spills. This shall include copies of Discharge Notifications that have occurred within the project limits.
4. Completed inspection forms (as specified in Section 4.0).

The Contractor is responsible for submitting the following items to Florida Department of Environmental Protection in order for the NPDES Permit to be processed:

1. FDEP Form 62-621.300(4)(b) - Notice of Intent to use Generic Permit for Stormwater Discharge from Large and Small Construction Activities. This Notice of Intent shall be signed by the Contractor.
2. The Permitting fee of $400.00 for projects that clear and grub more than five acres, $250.00 for projects that clear and grub between 1 and 5 acres.

It is the Contractor's responsibility to submit the NOI to FDEP no less than 48 hours prior to the start of construction. Contractor shall be responsible for providing proof of mail date to the Project Administrator.

JUAN MANUEL RESTREPO
LICENSE
No. 61821
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
JUAN M. RESTREPO, P.E. NO.: 61821
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901 PONCE DE LEON BLVD., SUITE 909
CORAL GABLES, FLORIDA 33134
MIAMI (305) 445-2900 FLORIDA (800) 445-6227
CERTIFICATION OF AUTHORIZATION NO. 00000022

MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-3

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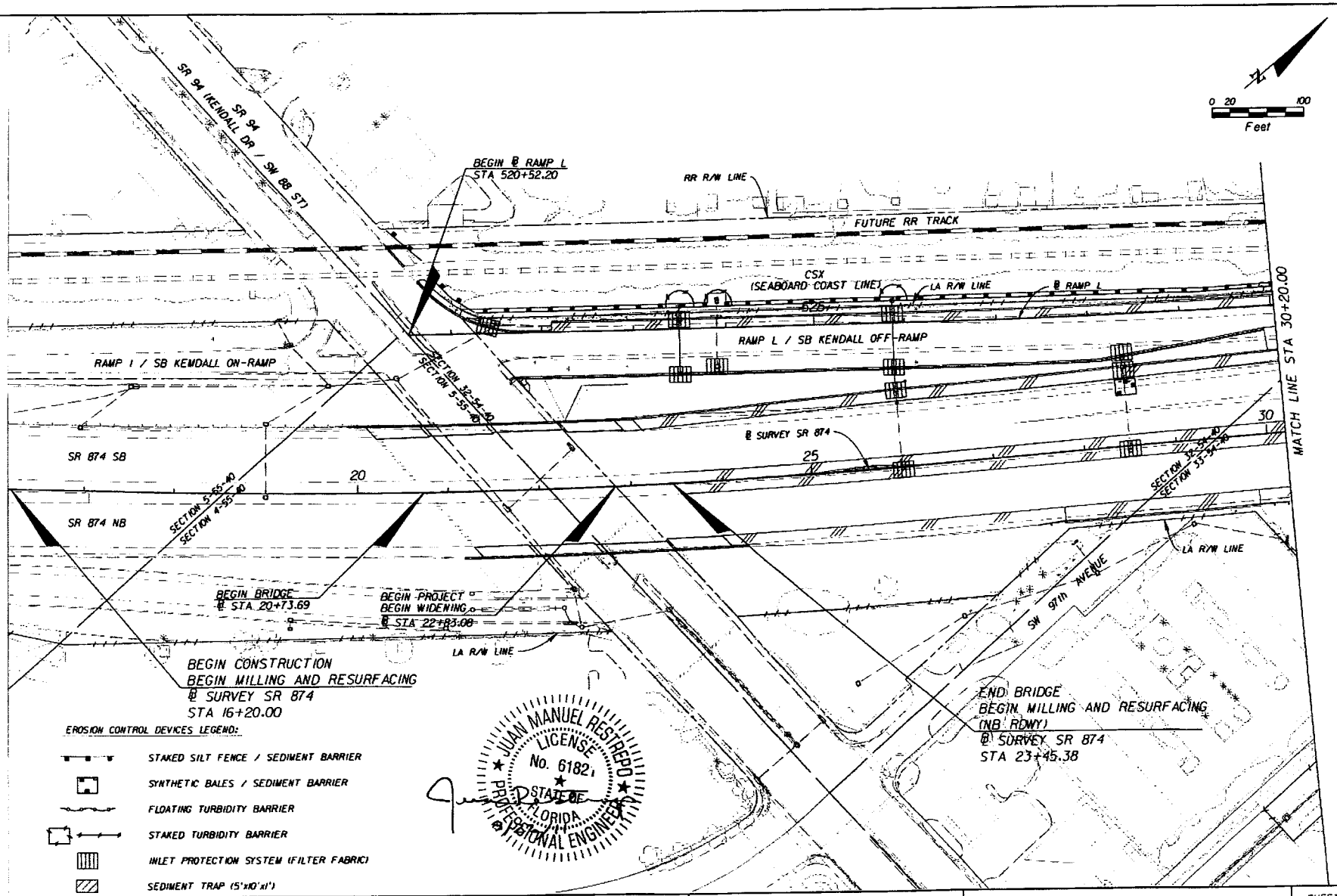

EROSION CONTROL DEVICES LEGEND:

- STAKED SILT FENCE / SEDIMENT BARRIER
- SYNTHETIC BALES / SEDIMENT BARRIER
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER
- INLET PROTECTION SYSTEM (FILTER FABRIC)
- SEDIMENT TRAP (5'x10'x1')

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD: JUAN M. RESTREPO, P.E. NO.: 61821
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PHONE (305) 445-2500 FLORIDA (800) 445-6227
CERTIFICATION OF AUTHORIZATION NO. 00000022

MIAMI-DADE EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-4

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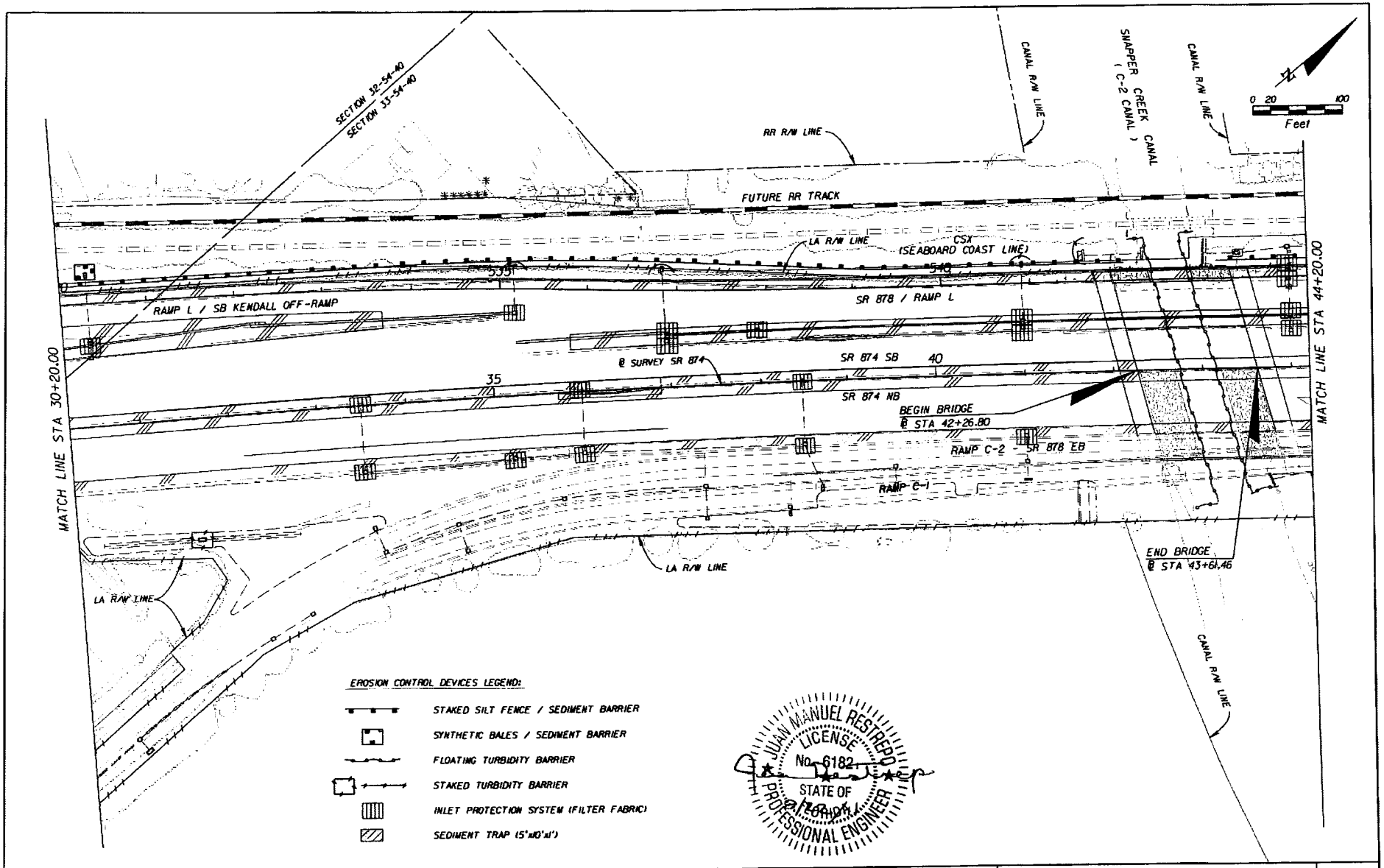

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
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CERTIFICATION OF AUTHORIZATION NO. 0000022

MIAMI-DADE EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-5

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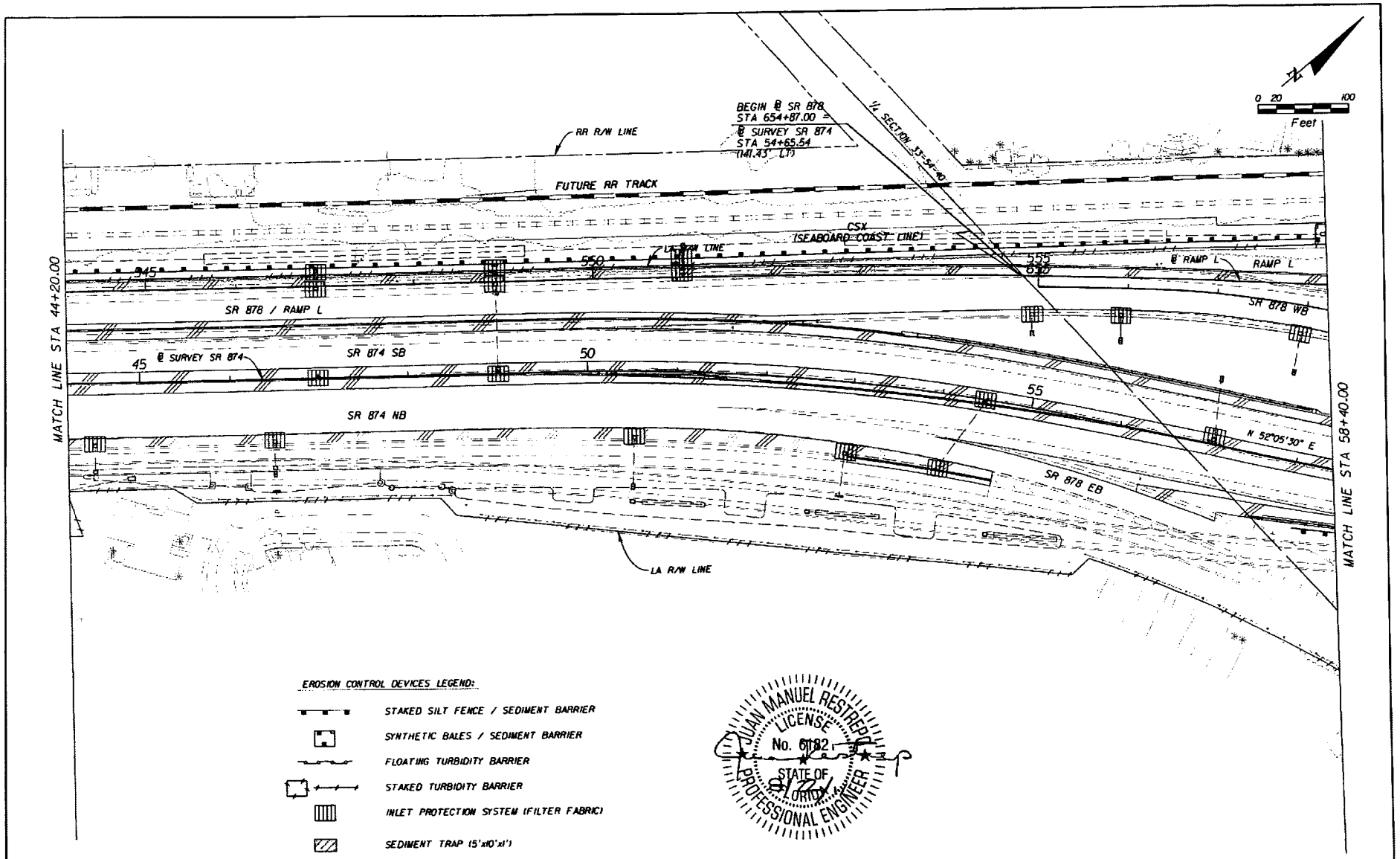

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ENGINEER OF RECORD:
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CERTIFICATION OF AUTHORIZATION NO. 00000822

MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-6

EXHIBIT
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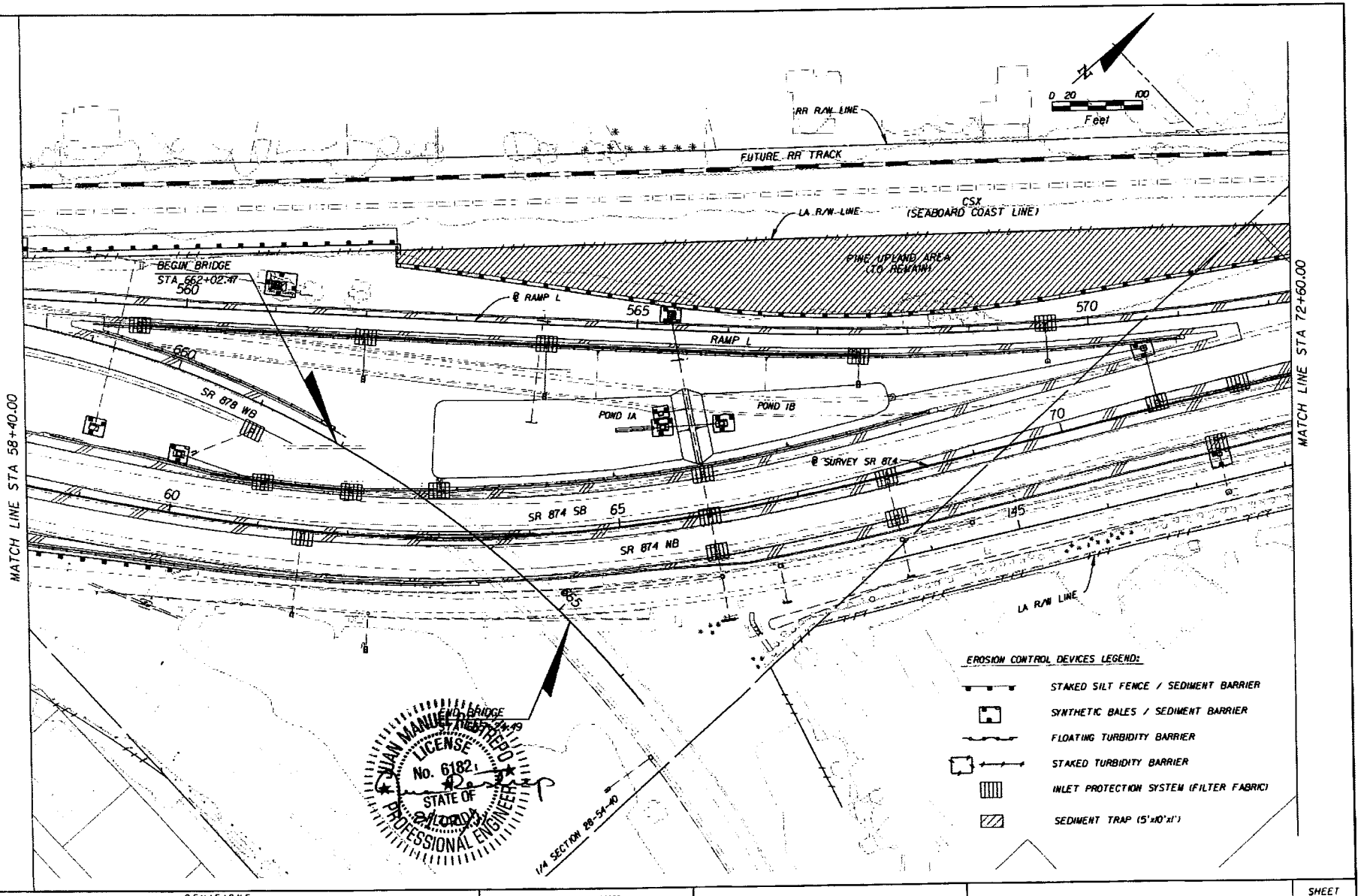

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD.
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CORAL GABLES, FLORIDA 33134
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CERTIFICATION OF AUTHORIZATION NO. 0000402

MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-7

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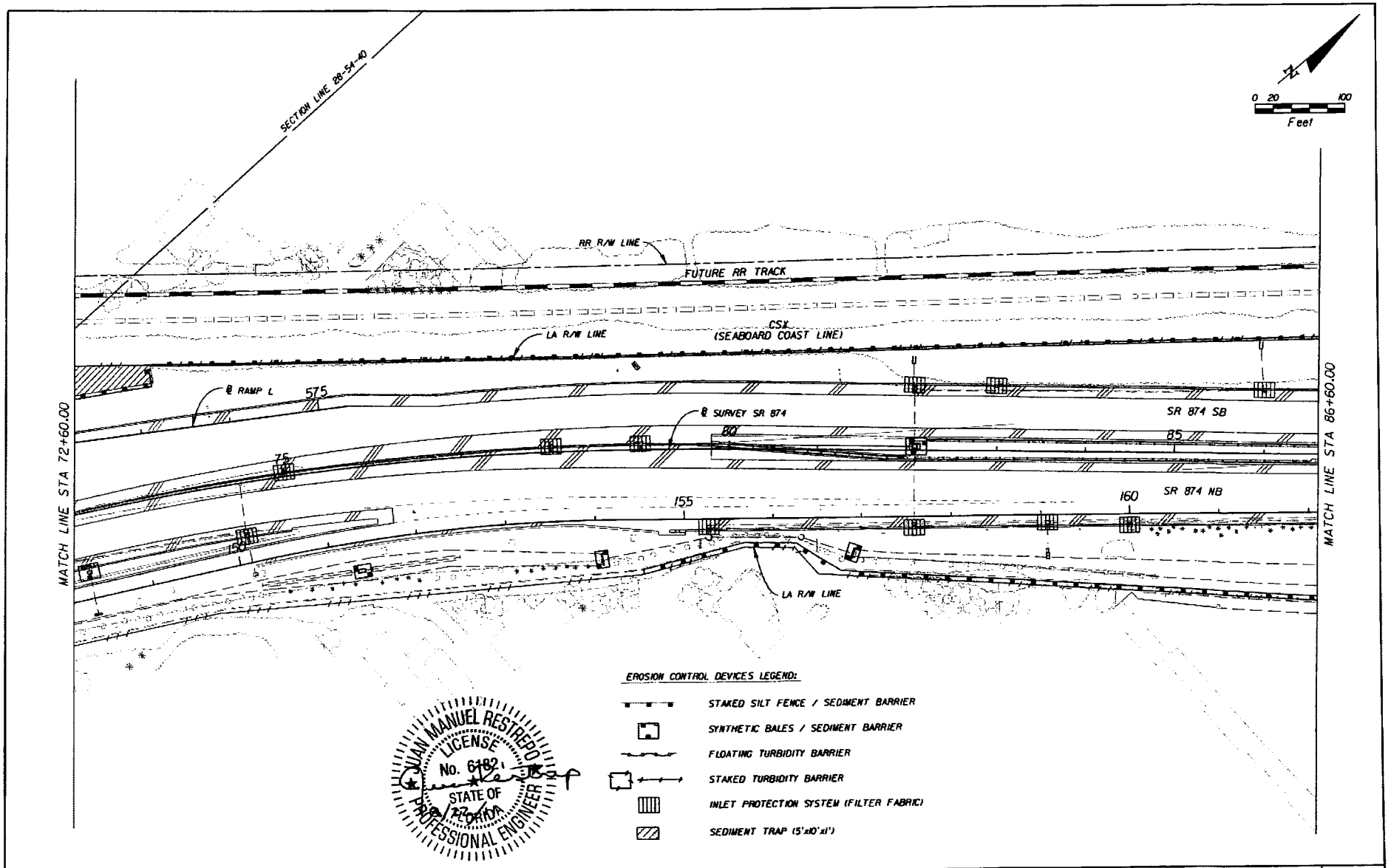

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DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
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MIAMI (305) 445-3939 FLORIDA (800) 448-0237
CERTIFICATION OF AUTHORIZATION NO. 00000825

MIAMI-DADE EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-8

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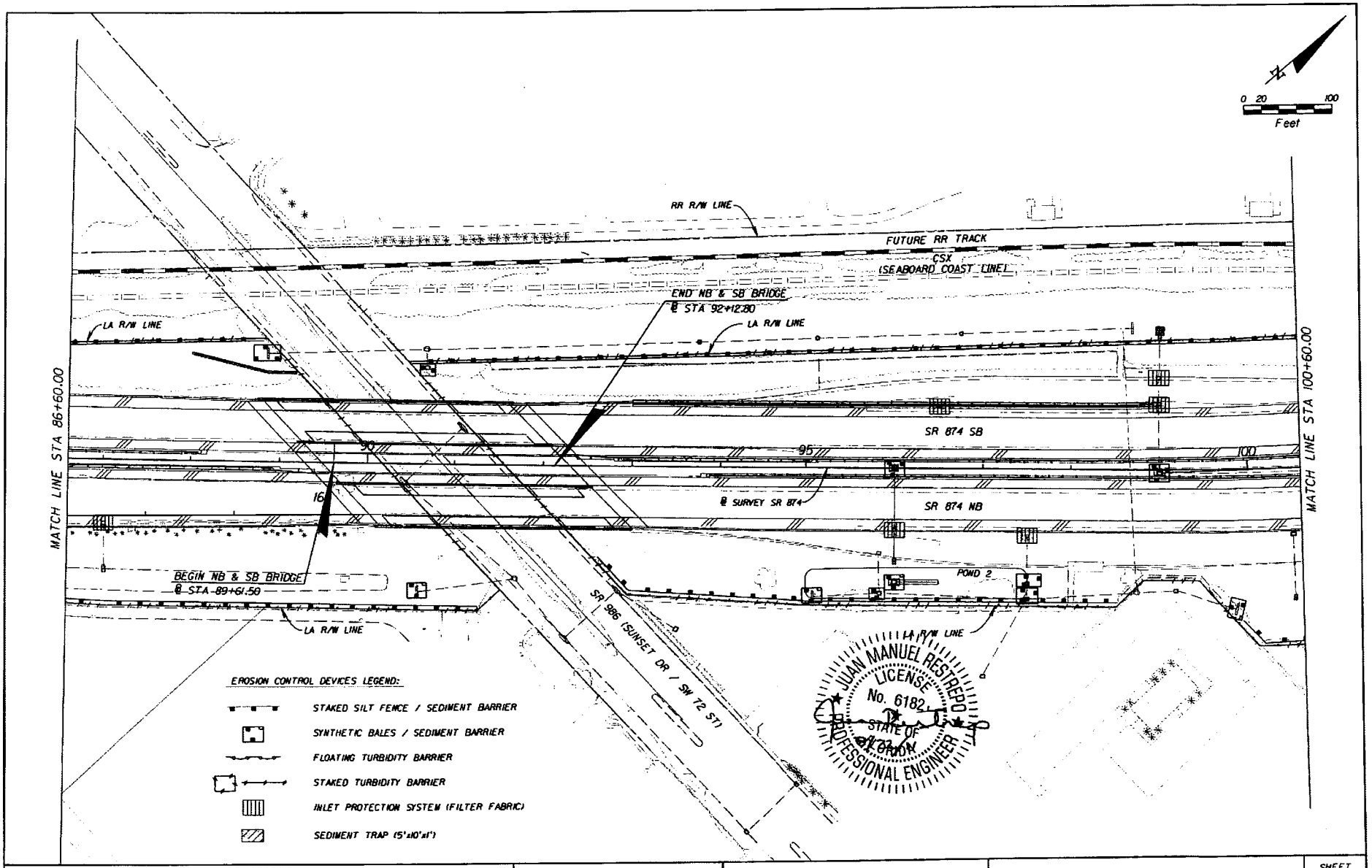

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CERTIFICATION OF AUTHORIZATION NO. 00000

MIAMI-DADE EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

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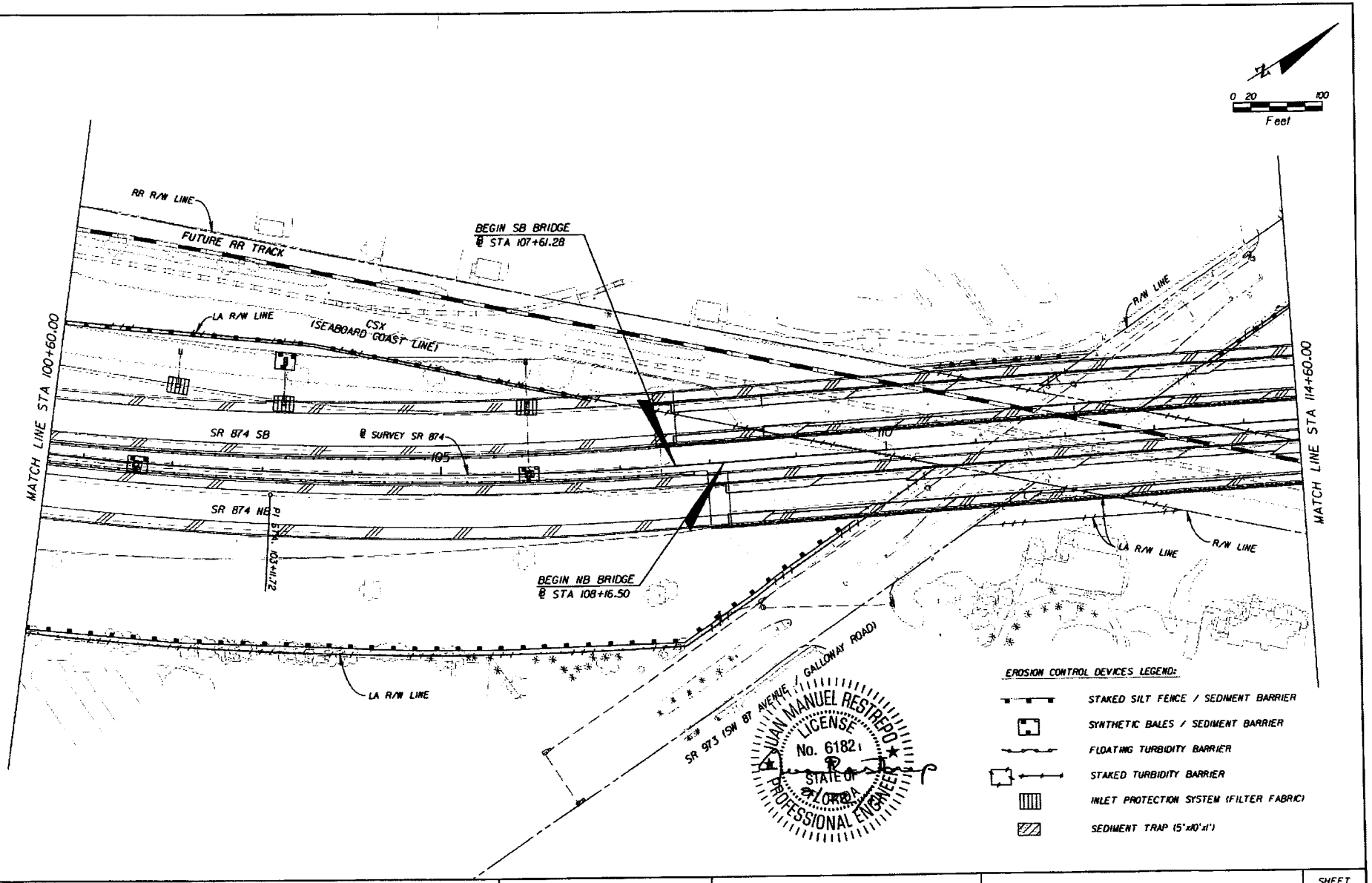

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SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-10

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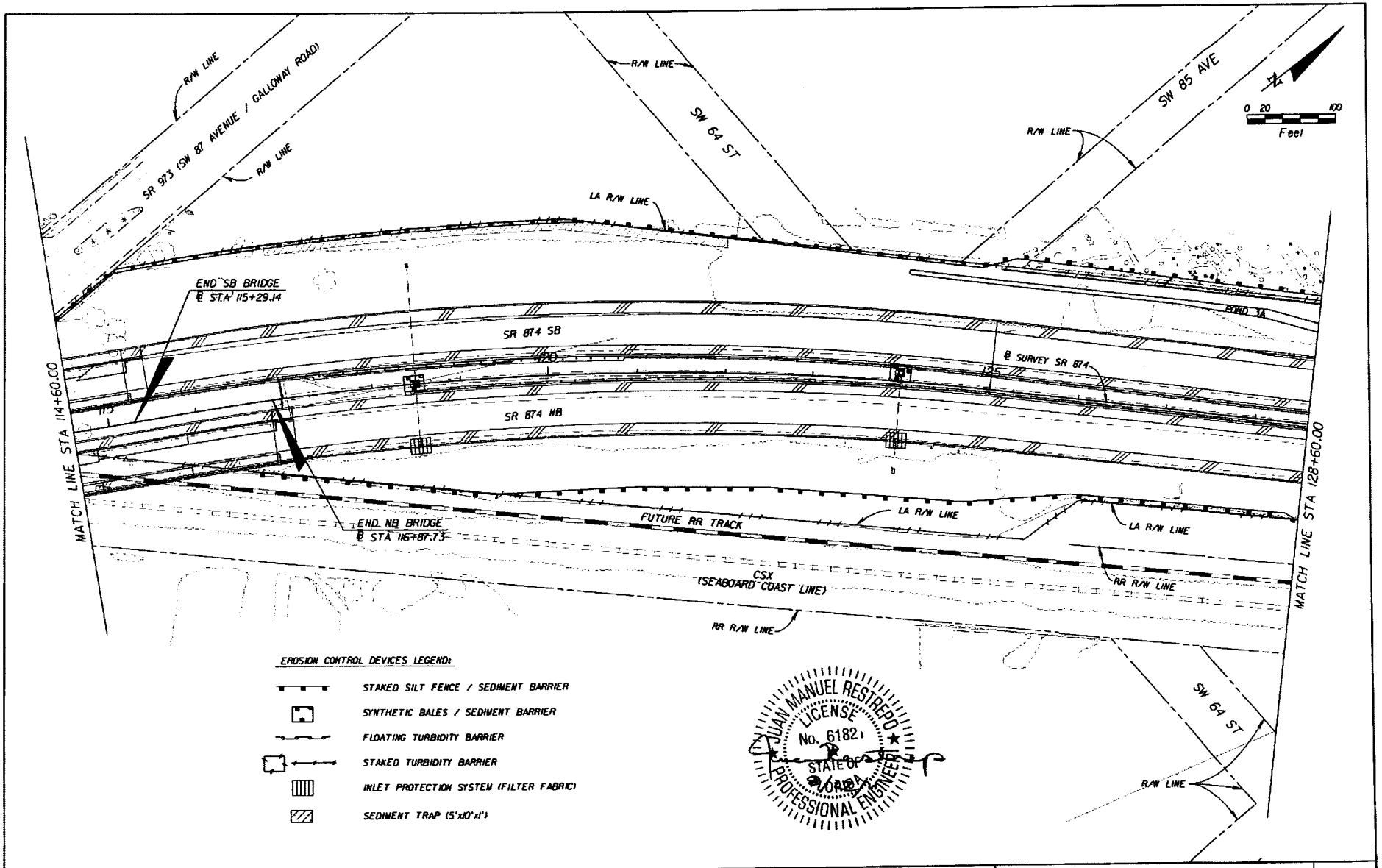

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MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

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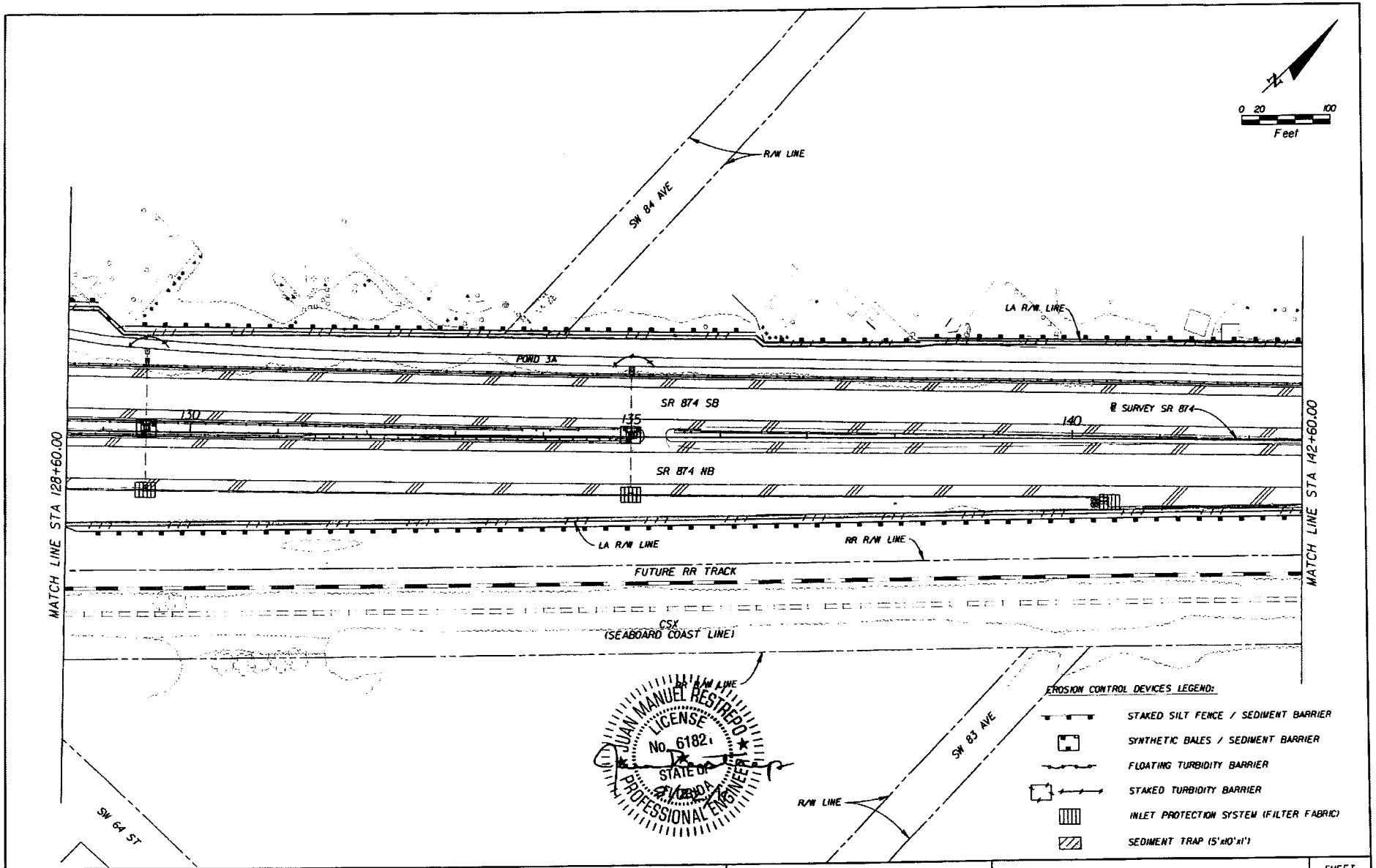

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MIAMI (305)-445-2500 FLORIDA (800)-446-8227
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MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
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STORM WATER POLLUTION PREVENTION PLAN

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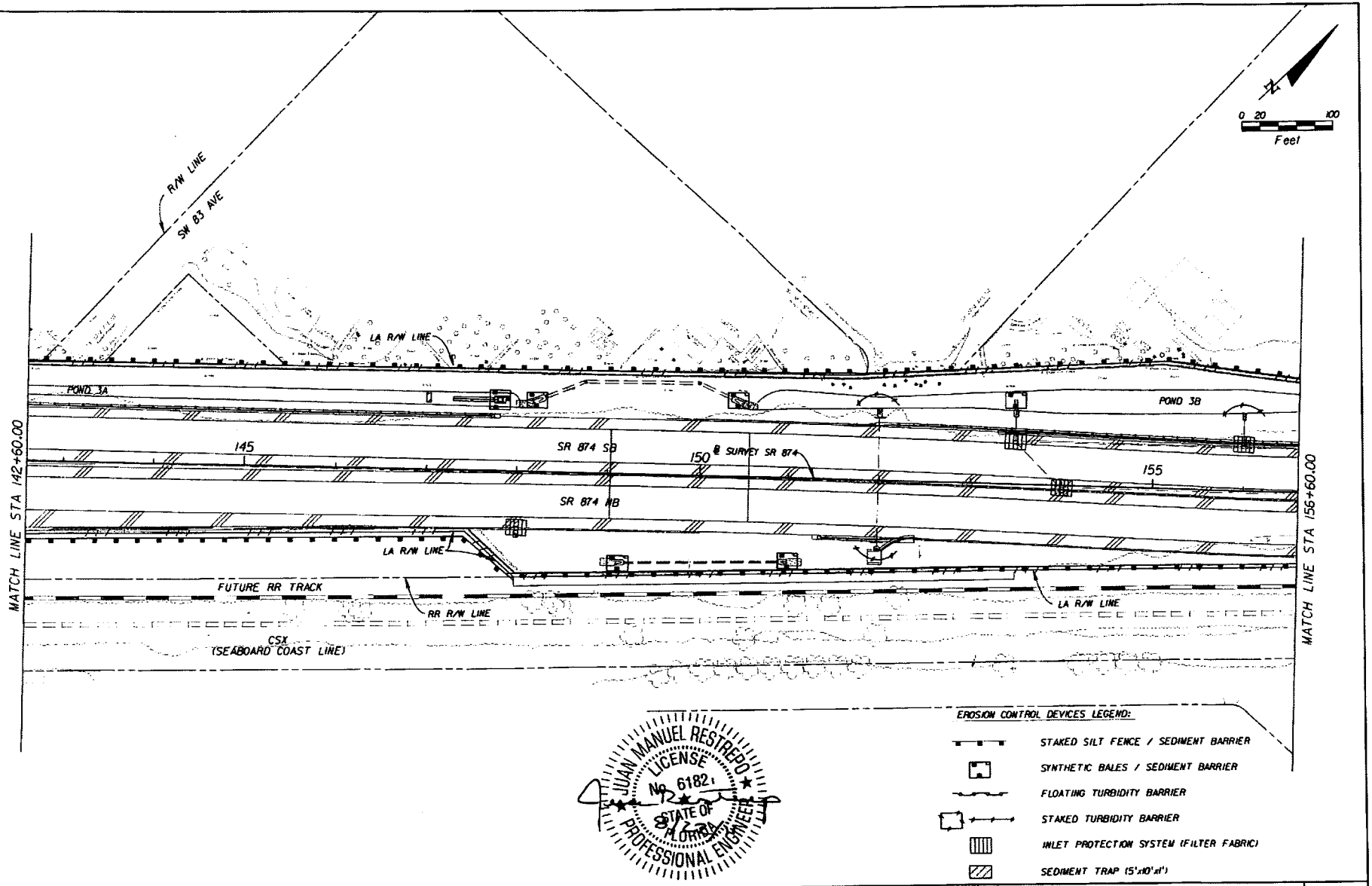

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ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

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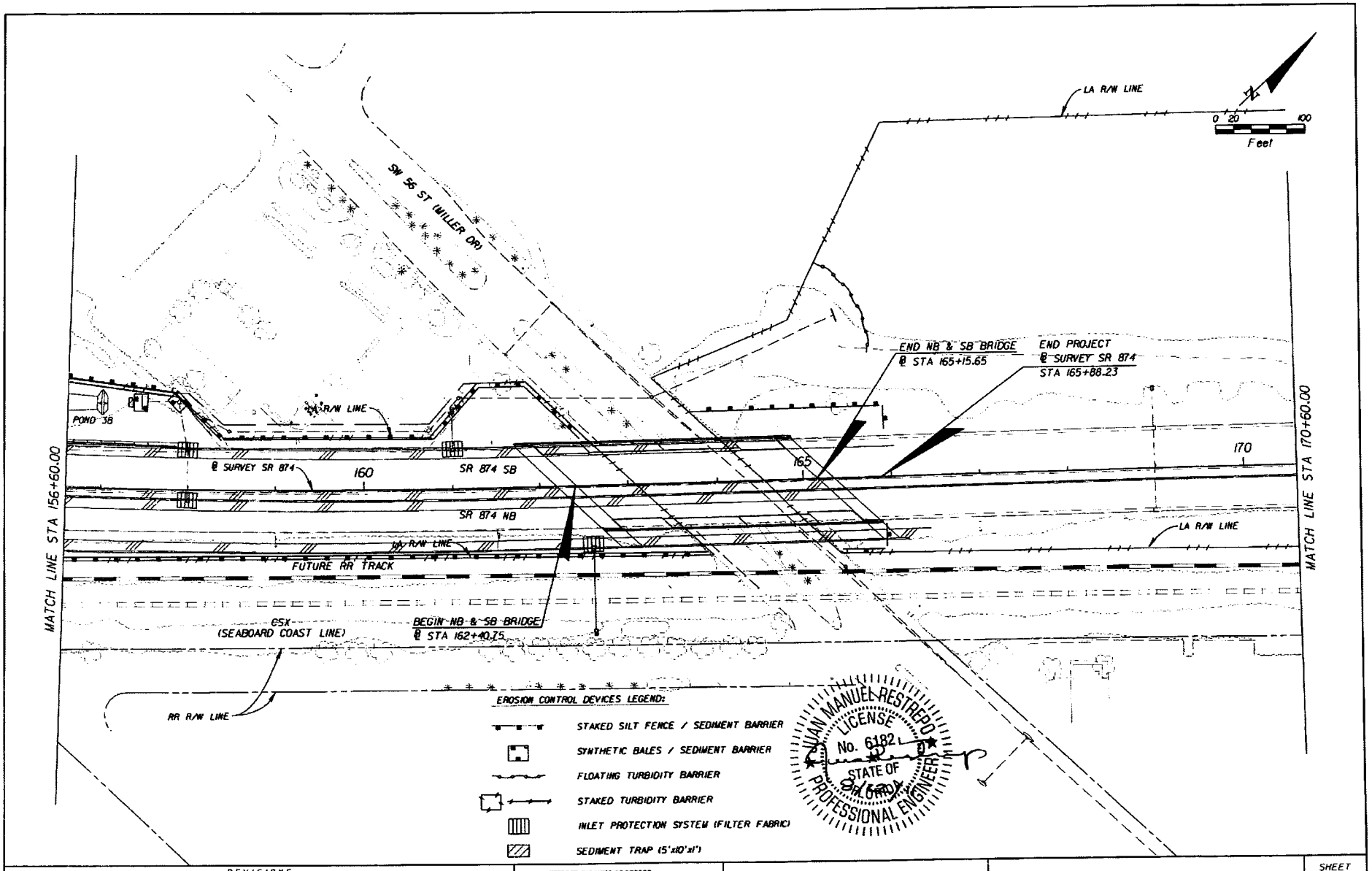

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901 PONCE DE LEON BLVD., SUITE 808
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MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-14

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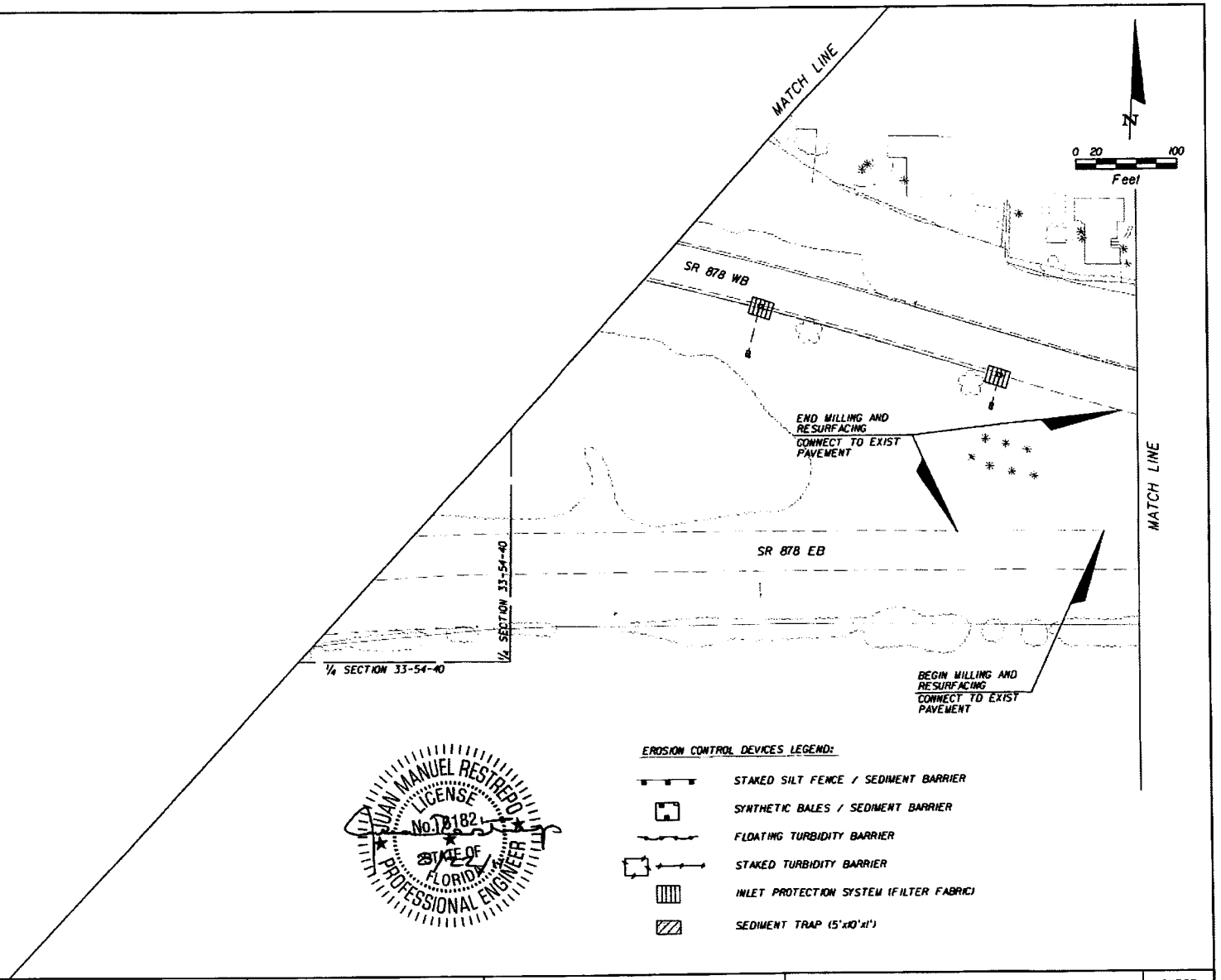

JUAN MANUEL RESTREPO LICENSE No. 18182 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD: JUAN M. RESTREPO, P.E. NO.: 61821
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901 PONCE DE LEON BLVD., SUITE 900
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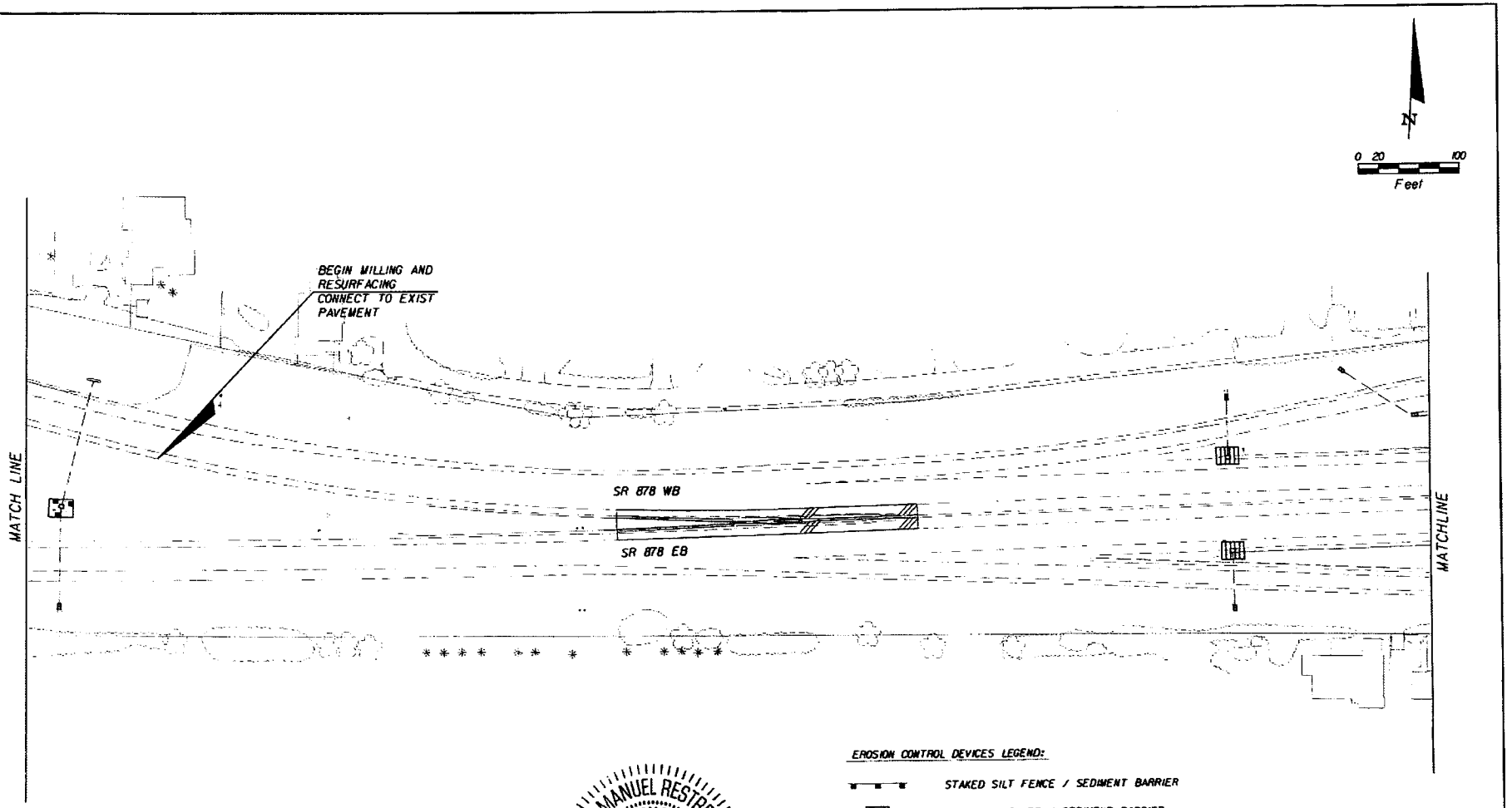
MIAMI (305)-445-2000 FLORIDA (800)-445-0237
CERTIFICATION OF AUTHORIZATION NO. 0000022

MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-15



JUAN MANUEL RESTREPO LICENSE No. 61821 STATE OF FLORIDA PROFESSIONAL ENGINEER

EROSION CONTROL DEVICES LEGEND:

- STAKED SILT FENCE / SEDIMENT BARRIER
- SYNTHETIC BALES / SEDIMENT BARRIER
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER
- INLET PROTECTION SYSTEM (FILTER FABRIC)
- SEDIMENT TRAP (5'x10'x1')

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD: JUAN M. RESTREPO, P.E. NO.: 61821
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CERTIFICATION OF AUTHORIZATION NO. 00000822
CSTS

MIAMI-DADE EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-16

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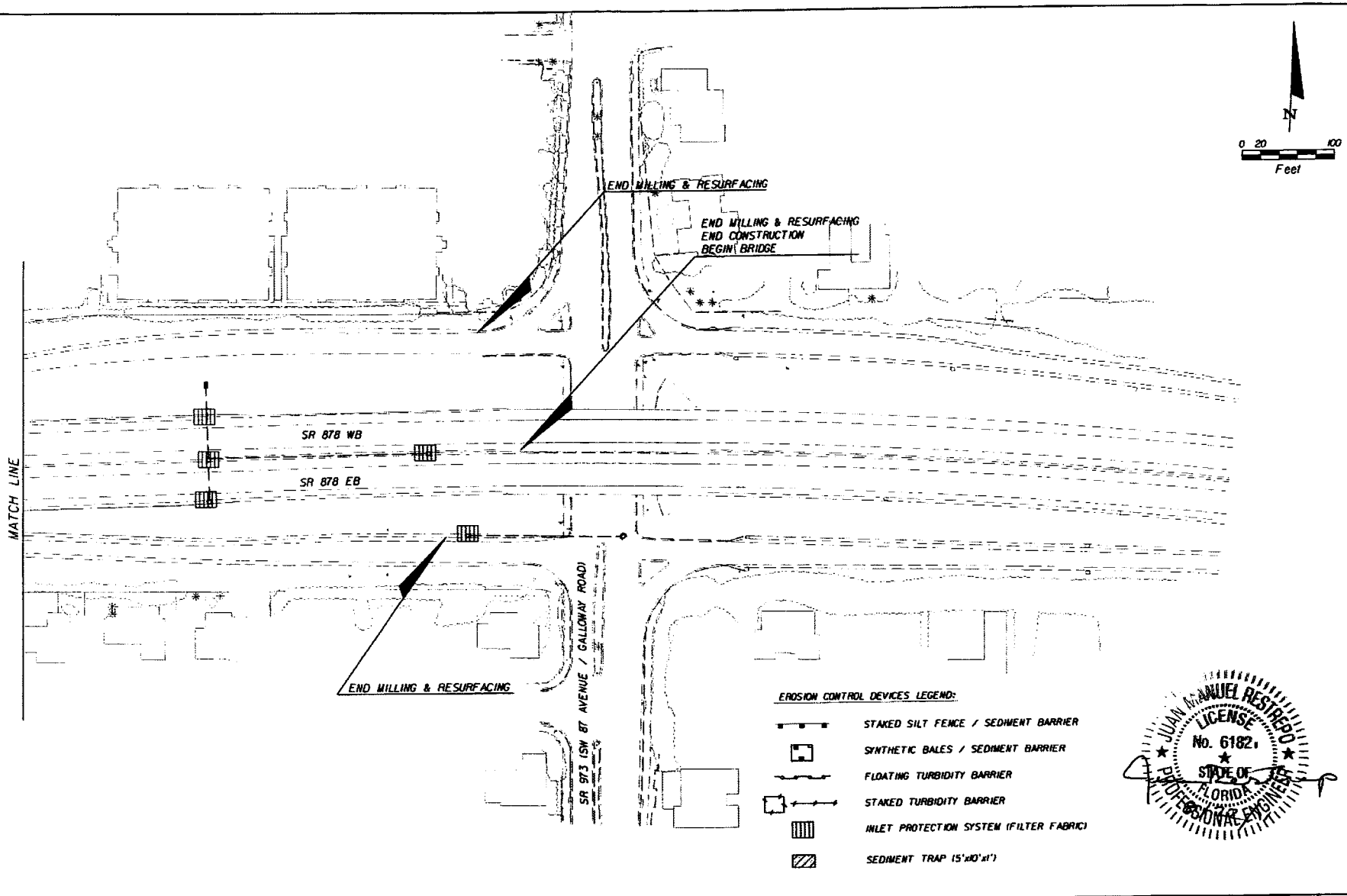

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
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CORAL GABLES, FLORIDA 33134
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ROAD NO.	COUNTY	WORK PROGRAM NO.
SR 874	MIAMI-DADE	87409.030

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. SW-17

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APPLICATION #111107-1
PERMIT NO. 13-02434-P

EXHIBIT NUMBER 3
Consisting of the following plan sheets
1-6 and 29-66 (Engineering Plans)

DRAINAGE MAPS
ROADWAY PLANS
DRAINAGE DETAILS
POND DETAILS

INCORPORATED BY REFERENCE

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Application No: 111107-1

Permit No: 13-02434-P

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