

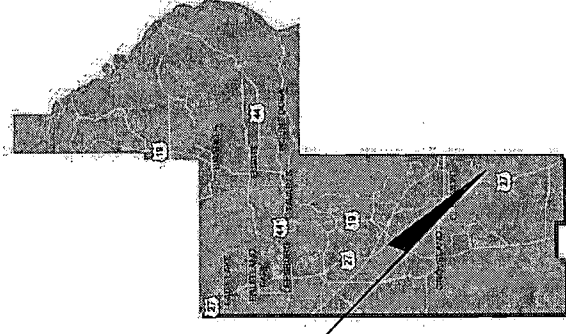


LAKE COUNTY FLORIDA

CONTRACT PLANS

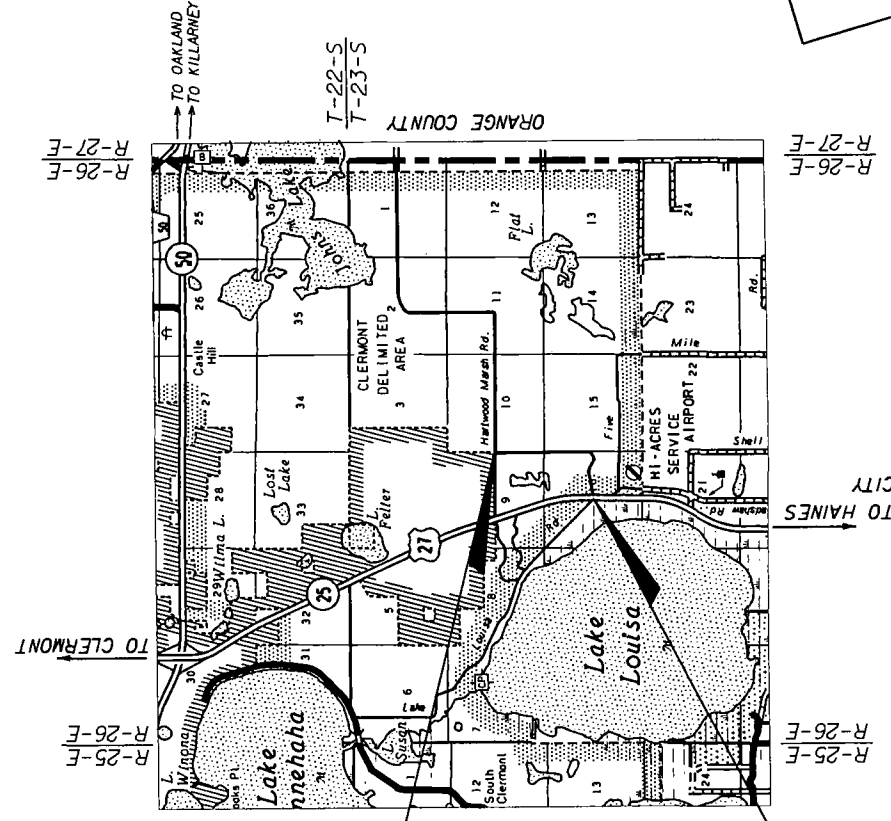
SOUTH HANCOCK ROAD
FROM US 27 / SR 25 TO HARTWOOD MARSH ROAD

PROJECT LOCATION



INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2-7	DRAINAGE MAP
8	FLOOD DATA TABLE
9-13	TYPICAL SECTIONS
14-16	SUMMARY OF DRAINAGE STRUCTURES
17	GENERAL NOTES AND SUMMARY OF QUANTITIES
18	PROJECT LAYOUT
19-37	PLAN AND PROFILE SHEETS
38-39	PLAN SHEETS
40	INTERSECTION DETAILS
41	LATERAL OUTFALL PLAN AND PROFILE
42-80	DRAINAGE STRUCTURE SHEETS
81-82	POND DETAILS
83	SWALE DETAILS
84-89	POND CROSS SECTIONS
90-91	DRAINAGE DETAILS
92-124	CROSS SECTIONS
125	STORM WATER POLLUTION PREVENTION PLAN
126-127	EROSION CONTROL PLAN
128-132	TRAFFIC CONTROL PLAN
S-1	SIGNING AND PAVEMENT MARKING GENERAL NOTES
S-2 - S-3	SIGNING AND PAVEMENT MARKING TABULATION OF QUANTITIES
S-4 - S-20	SIGNING AND PAVEMENT MARKING PLANS
T-1	SIGNALIZATION GENERAL NOTES
T-2	SIGNALIZATION TABULATION OF QUANTITIES
T-3	SIGNALIZATION PLANS
T-4	SIGNALIZATION GUIDESIGN WORKSHEET



COUNTY MANAGER:
CINDY HALL

COUNTY COMMISSIONERS:
LINDA STEWERT
DEBBIE STIVENDER
JENNIFER HILL
ELAINE RENICK
WELTON CADWELL

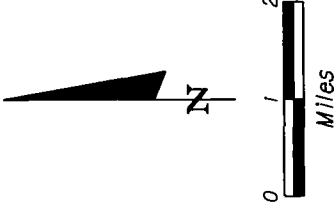
ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
KAREN M. VAN DEN AVONT, PE
HNTB CORPORATION
300 PRIMA BULEVARD, SUITE 200
LAKE MARY, FLORIDA 32746

PLANS PREPARED BY:



HNTB CORPORATION
300 PRIMA BULEVARD, SUITE 200
LAKE MARY, FL 32746
PHONE: (407) 805-0355
FAX: 407-805-0227
CERT. OF AUTH. NO. 6500
VENDOR NO. : V98567003

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO RE-PRODUCTION.



ARRIVED IN
PALATKA

JUN 0 6 2008

REGULATORY
INFORMATION MGT.

**RAI SUBMITTAL
JUNE 2008**

76466-2

76466-2

PROJECT LENGTH IS BASED ON \pm OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	7039.29	1.333
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	7039.29	1.333
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	7039.29	1.333

LAKE COUNTY PROJECT MANAGER: THOMAS MCCANN, P.E.

DATE	BY	DESCRIPTION
JUN 4 - 2008		PDS ALFAMONTE SVC. CTR.

ROADWAY PLANS
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, PE

P.E. NO.: 44794

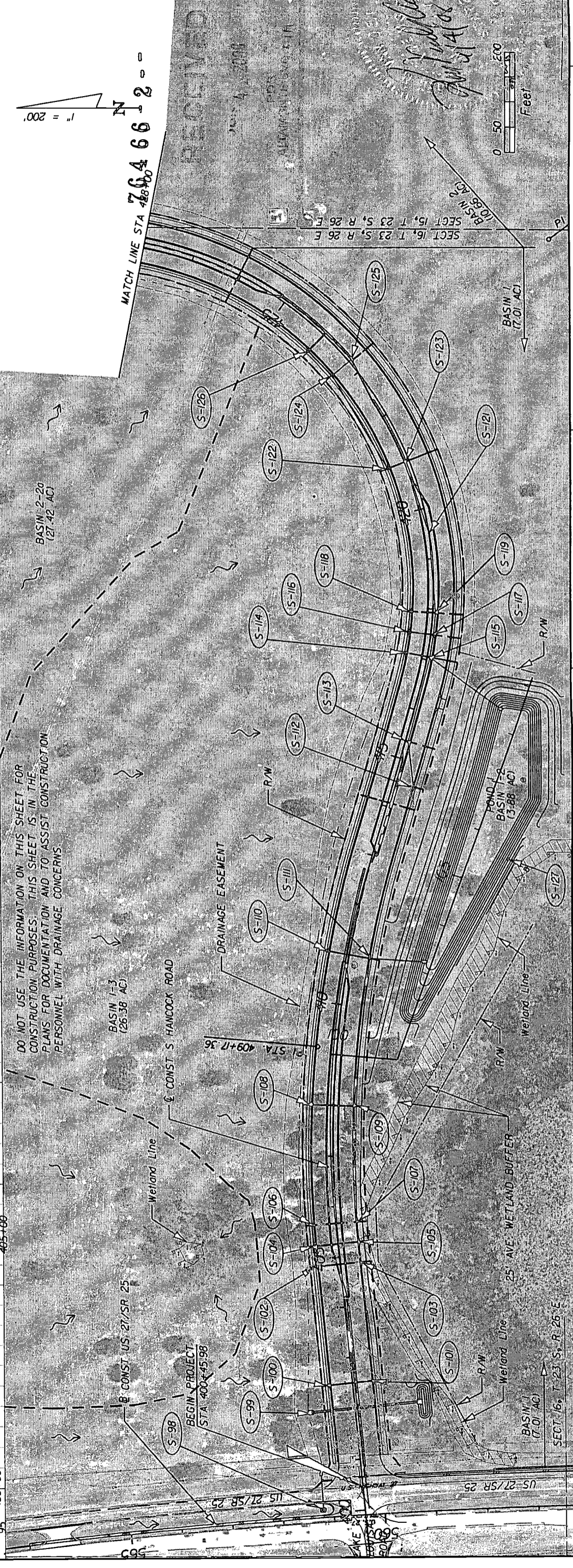
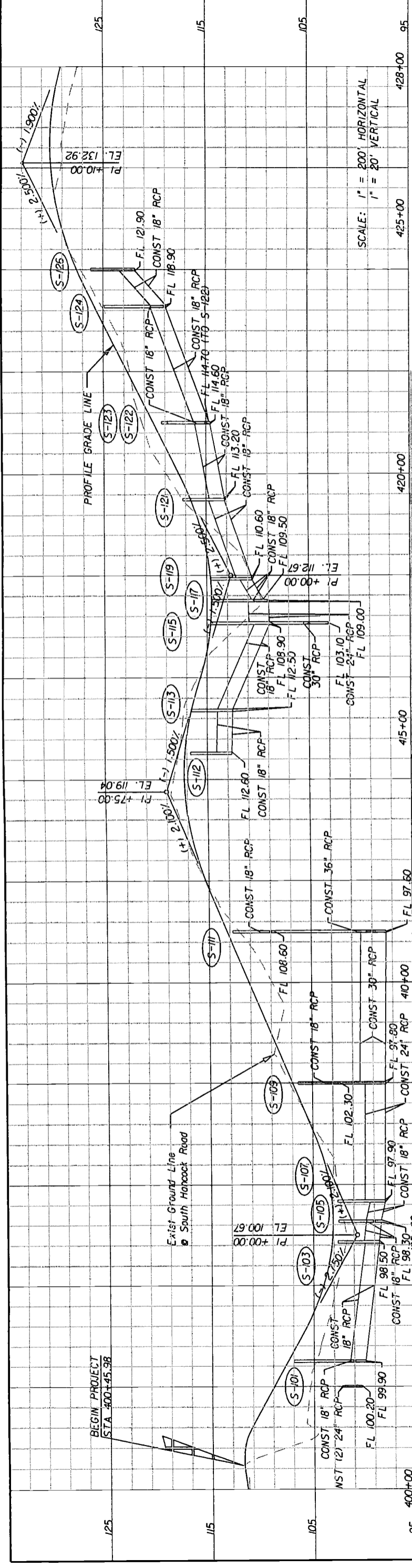
SHEET
NO.

1

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

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 1-1-08

For Design Standards Modifications click on
"Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>



DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

				SOUTH HANCOCK ROAD		DRAINAGE MAP		SHEET NO. 2	
REVISIONS		DESCRIPTION		DATE BY		REVISIONS DESCRIPTION		DATE BY	
<p> HNTB CORPORATION 300 PRIMA BLVD, SUITE 200 LAKE WARE, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794 </p>									

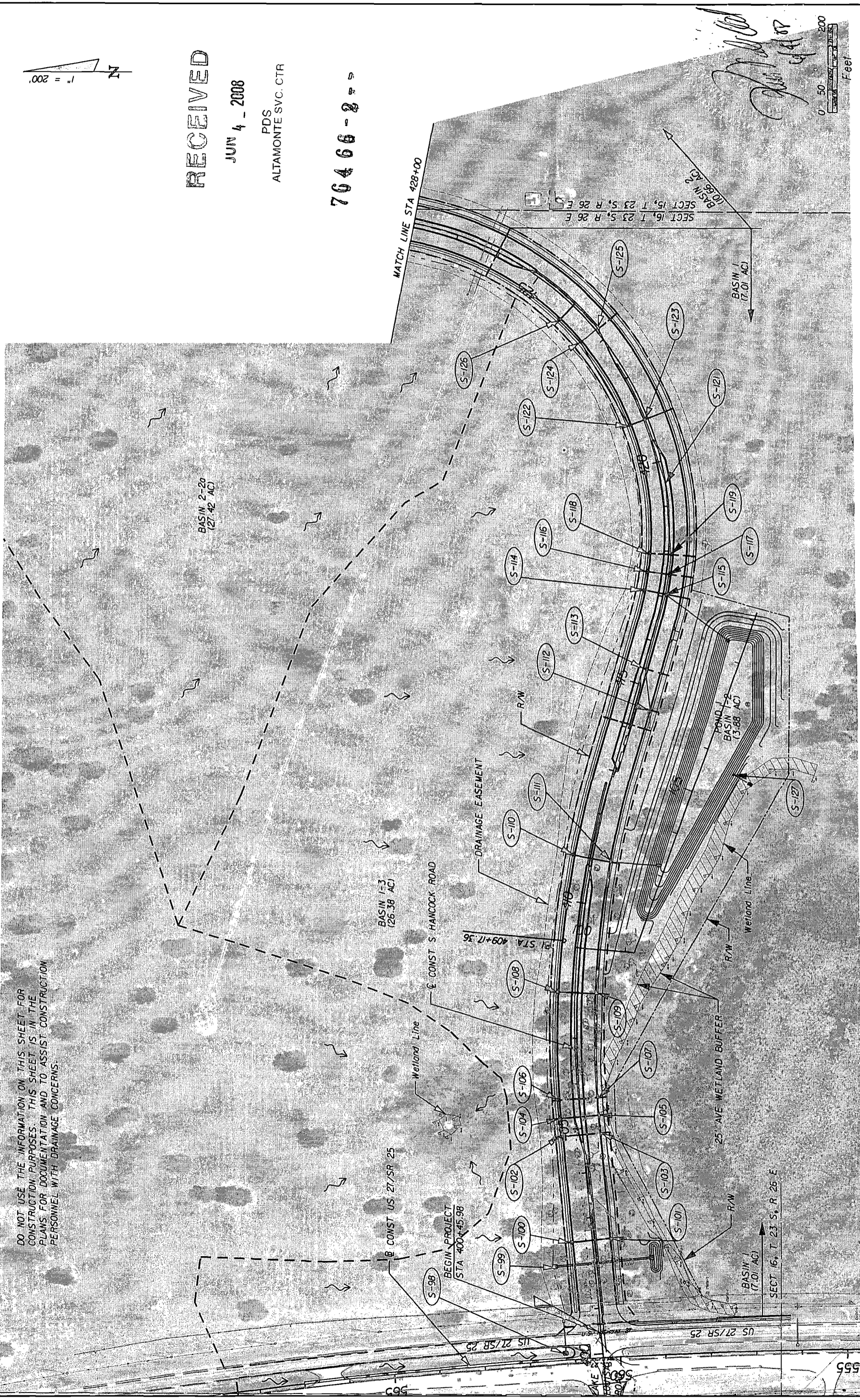
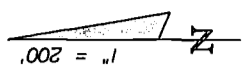
DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

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JUN 4 2008

PDS
ALTAMONTE SVC. CTR

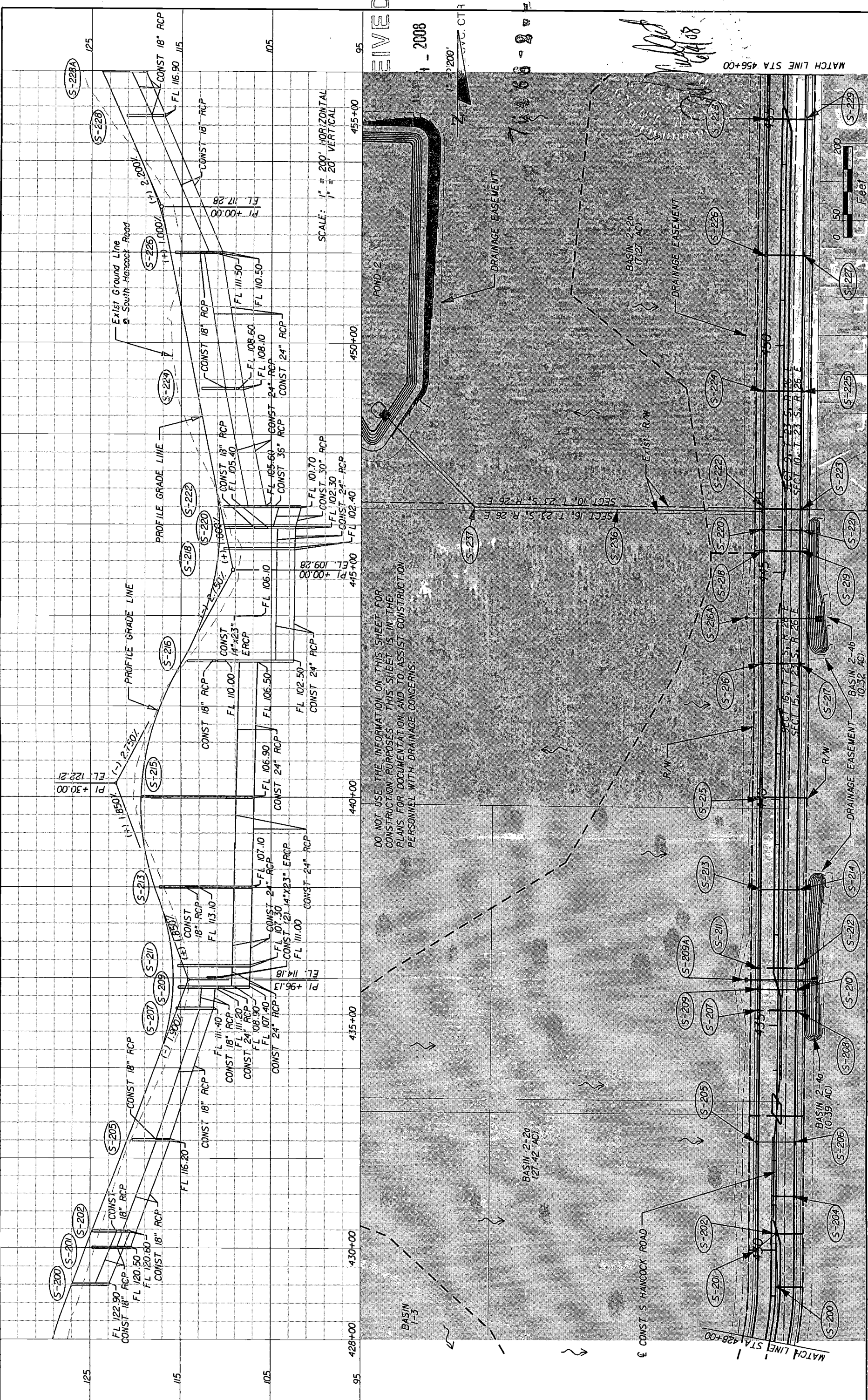
76466-2



Handwritten signature and date: 6/4/08

DATE	BY	REVISIONS	DESCRIPTION

		HNTB CORPORATION 300 PRIMAVERA BLVD, SUITE 200 LAKE WARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794
		LAKE COUNTY FLORIDA
SOUTH HANCOCK ROAD		DRAINAGE MAP
SHEET NO.		3



RECEIVED

2008

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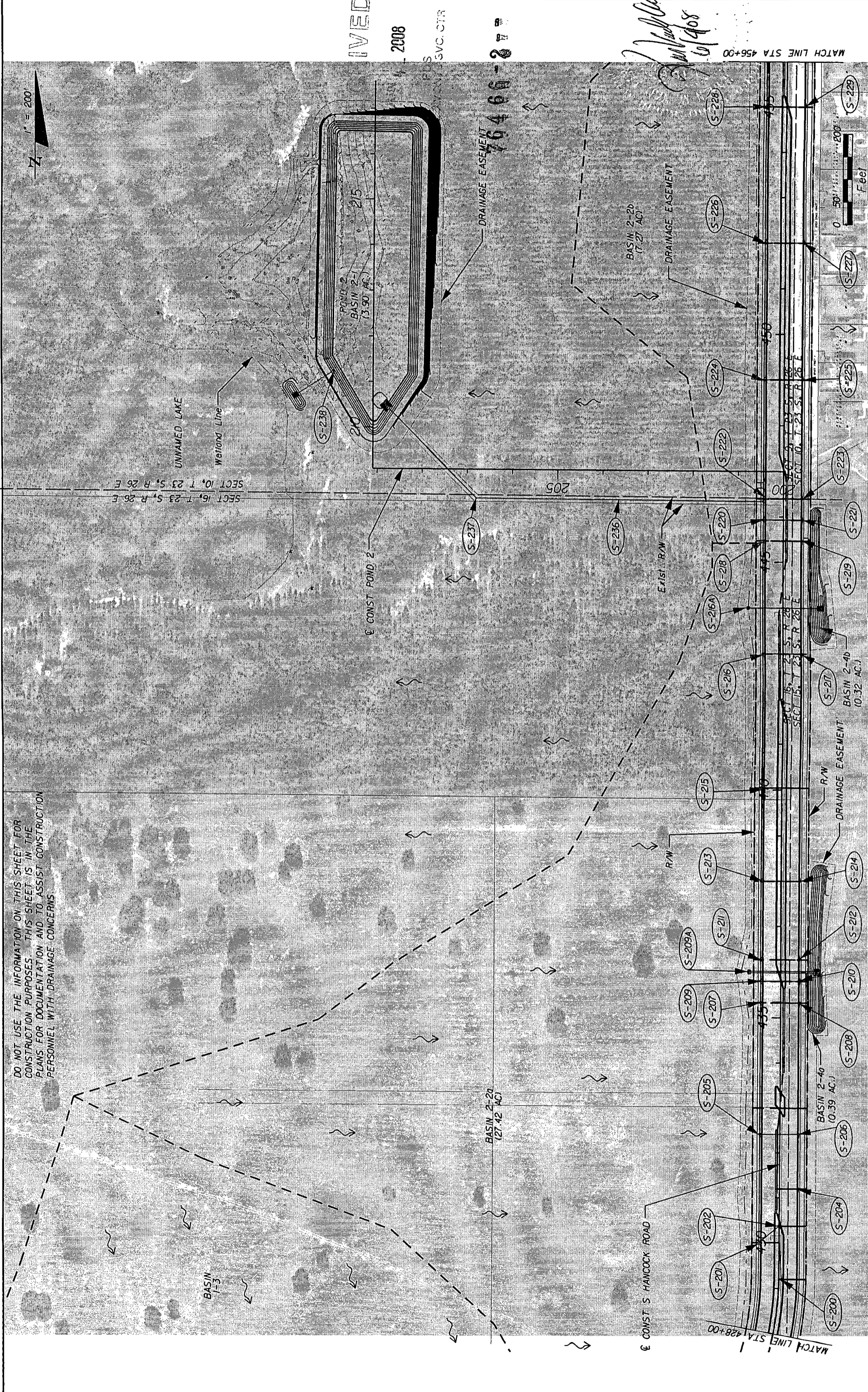
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NO.	DATE	BY	DESCRIPTION	NO.	DESCRIPTION

		HNTB CORPORATION 300 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500	
		LAKE COUNTY FLORIDA	
SOUTH HANCOCK ROAD		DRAINAGE MAP	
SHEET NO.		4	

ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL REGISTRATION NO. 44794

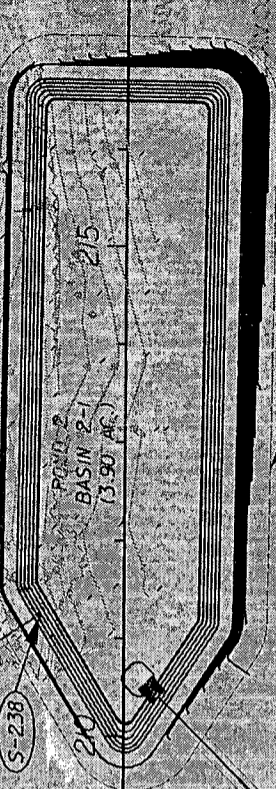
DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

1" = 200'



SECT 16, T 23 S, R 26 E
SECT 10, T 23 S, R 26 E

UNNAMED LAKE
Wetland Line



Handwritten notes:
M. J. ...
W. J. ...
6/28/08

MATCH LINE STA 456+00



REVISIONS		DATE		BY		DESCRIPTION	

HNTB HNTB CORPORATION 3075 PRIVERA BLVD, SUITE 200, LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500		LAKE COUNTY FLORIDA		SOUTH HANCOCK ROAD		DRAINAGE MAP		SHEET NO. 5	
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RECEIVED

135

JUN 4 2008

PDS
METROPLAN CONSULTANTS

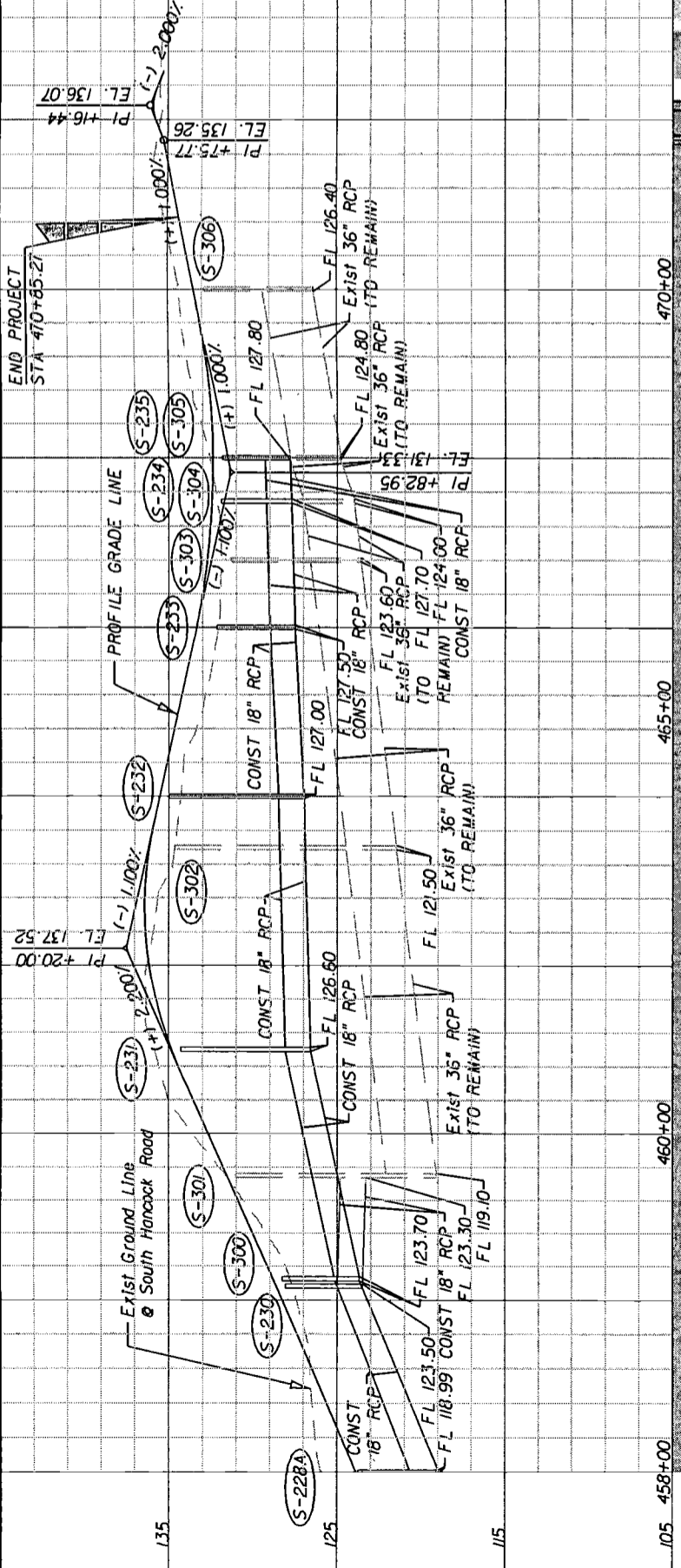
125

76466-2

115

SCALE:
1" = 200' HORIZONTAL
1" = 10' VERTICAL

105



DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

Handwritten signature and date: J. J. [unclear] 6/14/08



<p>HNTB HNTB CORPORATION 300 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794</p>		<p>LAKE COUNTY FLORIDA</p>	<p>SOUTH HANCOCK ROAD</p>	<p>DRAINAGE MAP</p>	<p>SHEET NO. 6</p>						
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		DATE	BY	DESCRIPTION				<p>10-22-08 6/3/2008 \\LAK000\pwwork\lakes\1561-2\156120520\drainage\DRMAPR004.dwg mlfscil</p>			
DATE	BY	DESCRIPTION									

STRUCTURE NO.	STATION	DESIGN FLOOD			BASE FLOOD			OVERTOPPING FLOOD			GREATEST FLOOD						
		4% PROB.		25 YR.FREQ.	1% PROB.		100 YR.FREQ.	DISCHARGE		STAGE	PROB. %		DISCHARGE	STAGE	PROB. %		FREQ. YR.
		DISCHARGE	STAGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	PROB. %	FREQ. YR.	DISCHARGE	STAGE	PROB. %	FREQ. YR.	
S-99	402+00	2.79	101.15	101.15	9.44	102.07	15.77	103.09	103.09	.21	475						
S-209A	436+00	1.91	111.46	111.46	2.40	111.52	25.94	115.30	115.30	<.1	>500	2.82	111.56	.20	500		
S-216A	444+00	0.676	106.50	106.50	0.849	106.55	13.26	110.75	110.75	<.1	>500	1.00	106.60	.20	500		

NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND AND STAGES ARE IN FEET, NAVD, 1988.

DEFINITIONS:

DESIGN FLOOD: THE FLOOD SELECTED BY F.D.O.T. TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.
BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)
OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.
GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)



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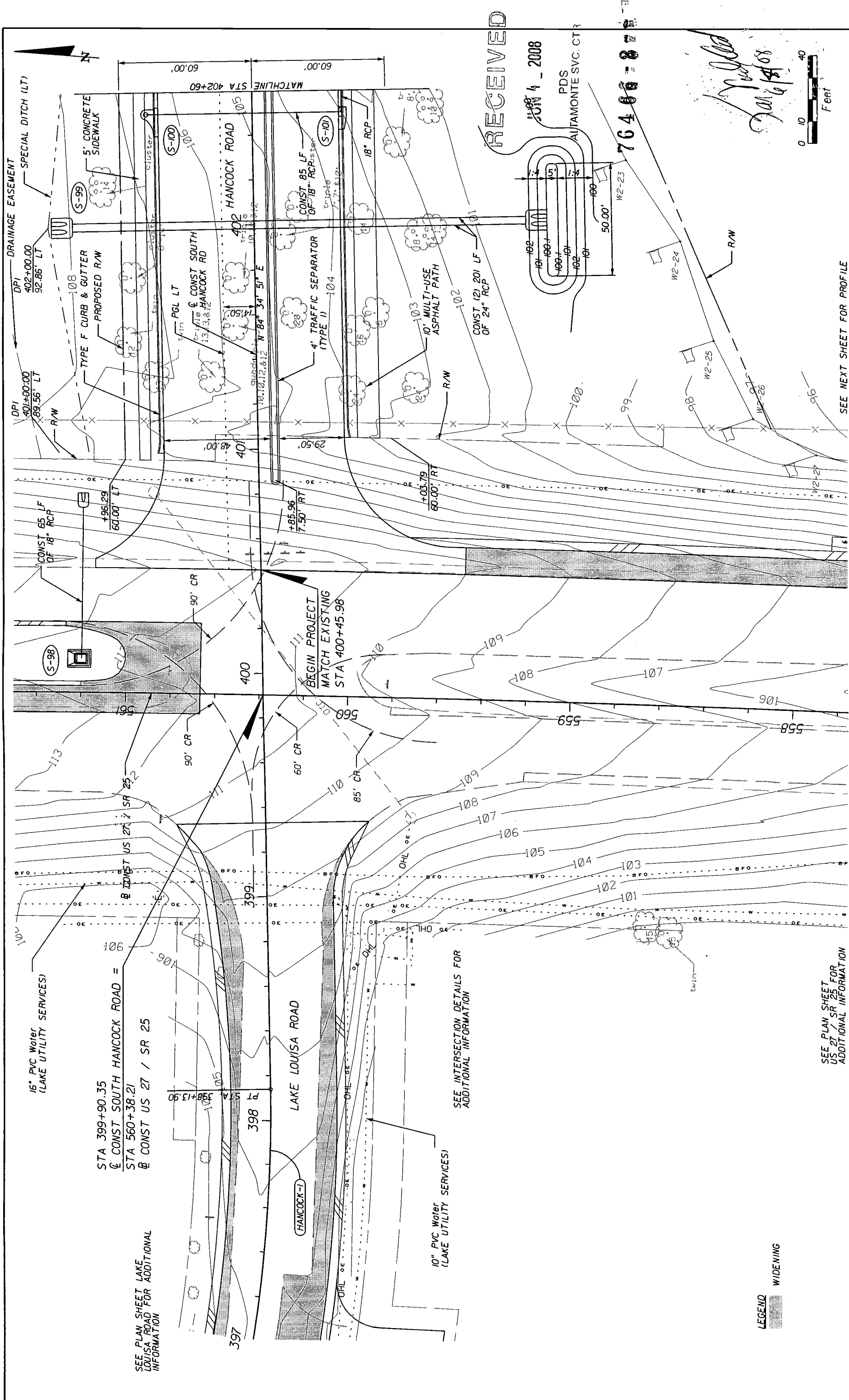
JUN 4 2008

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ALTAMONTE SVC. CTR

76466-212

[Handwritten Signature]
6/4/08

 HNTB HNTB CORPORATION 300 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794		 LAKE COUNTY FLORIDA	SOUTH HANCOCK ROAD	FLOOD DATA TABLE	SHEET NO. 8
REVISIONS DESCRIPTION	DATE BY				



STA 399+90.35
 C CONST SOUTH HANCOCK ROAD =
 STA 560+38.21
 C CONST US 27 / SR 25

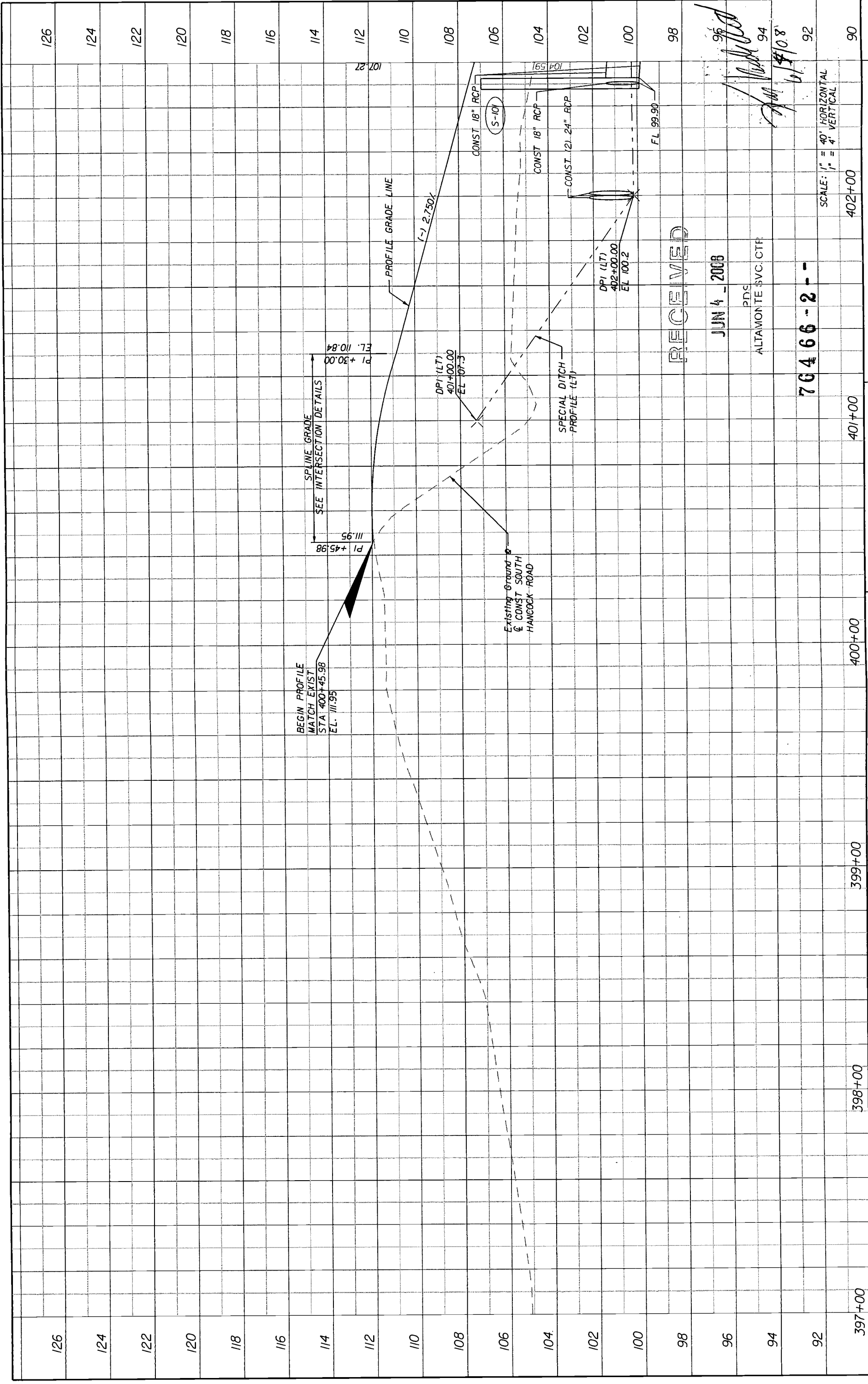
SEE PLAN SHEET LAKE
 LOUISA ROAD FOR ADDITIONAL
 INFORMATION

SEE INTERSECTION DETAILS FOR
 ADDITIONAL INFORMATION

LEGEND
 WIDENING

SEE PLAN SHEET FOR
 US 27 / SR 25 FOR
 ADDITIONAL INFORMATION

HNTB CORPORATION 300 PRINCEA BLVD, SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL REGISTRATION NO. 44794		LAKE COUNTY FLORIDA		SOUTH HANCOCK ROAD		PLAN SHEET		SHEET NO. 19	
REVISIONS DATE BY DESCRIPTION									



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JUN 4 - 2008

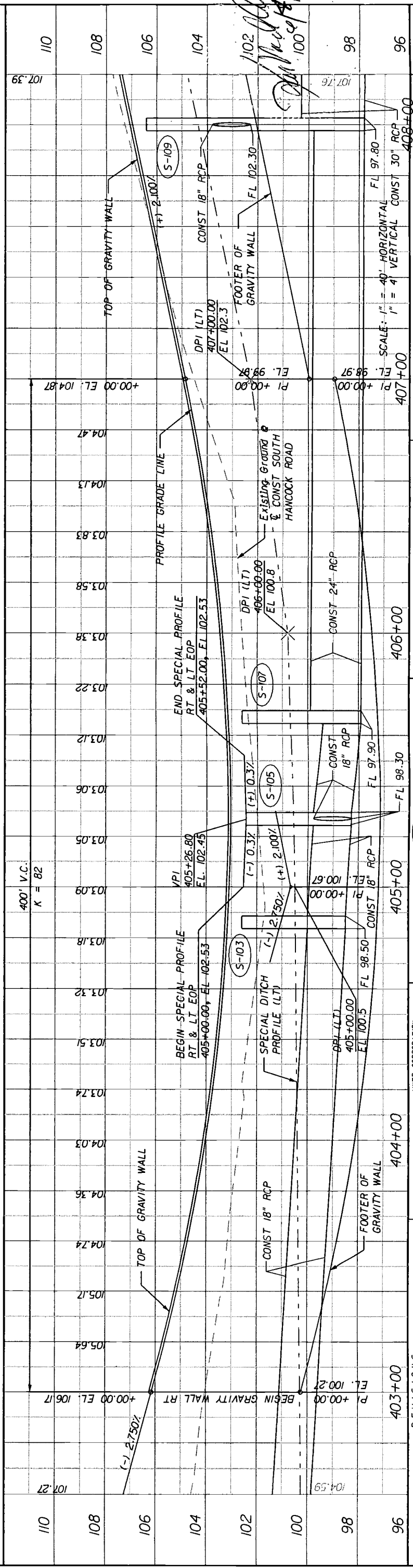
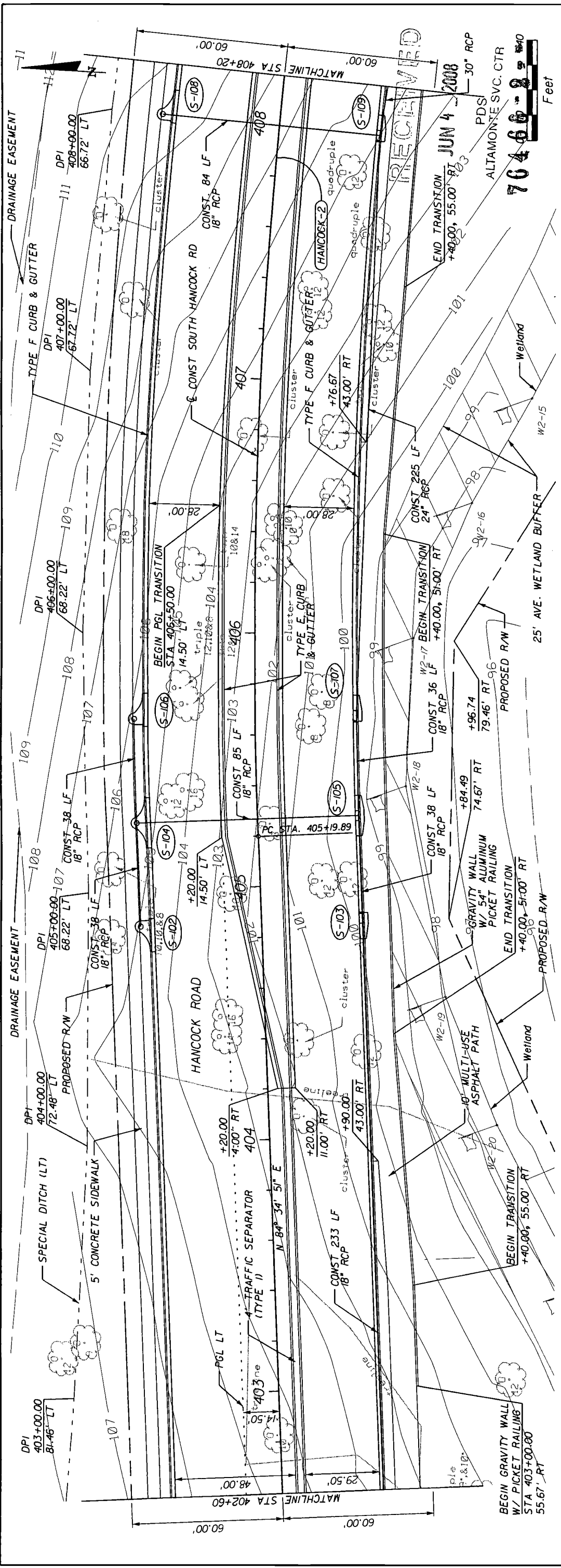
PDS
ALTAMONTE SVC. CTR.

76466-2--

SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

REVISIONS		DATE	BY	DESCRIPTION
NO.	DESCRIPTION			

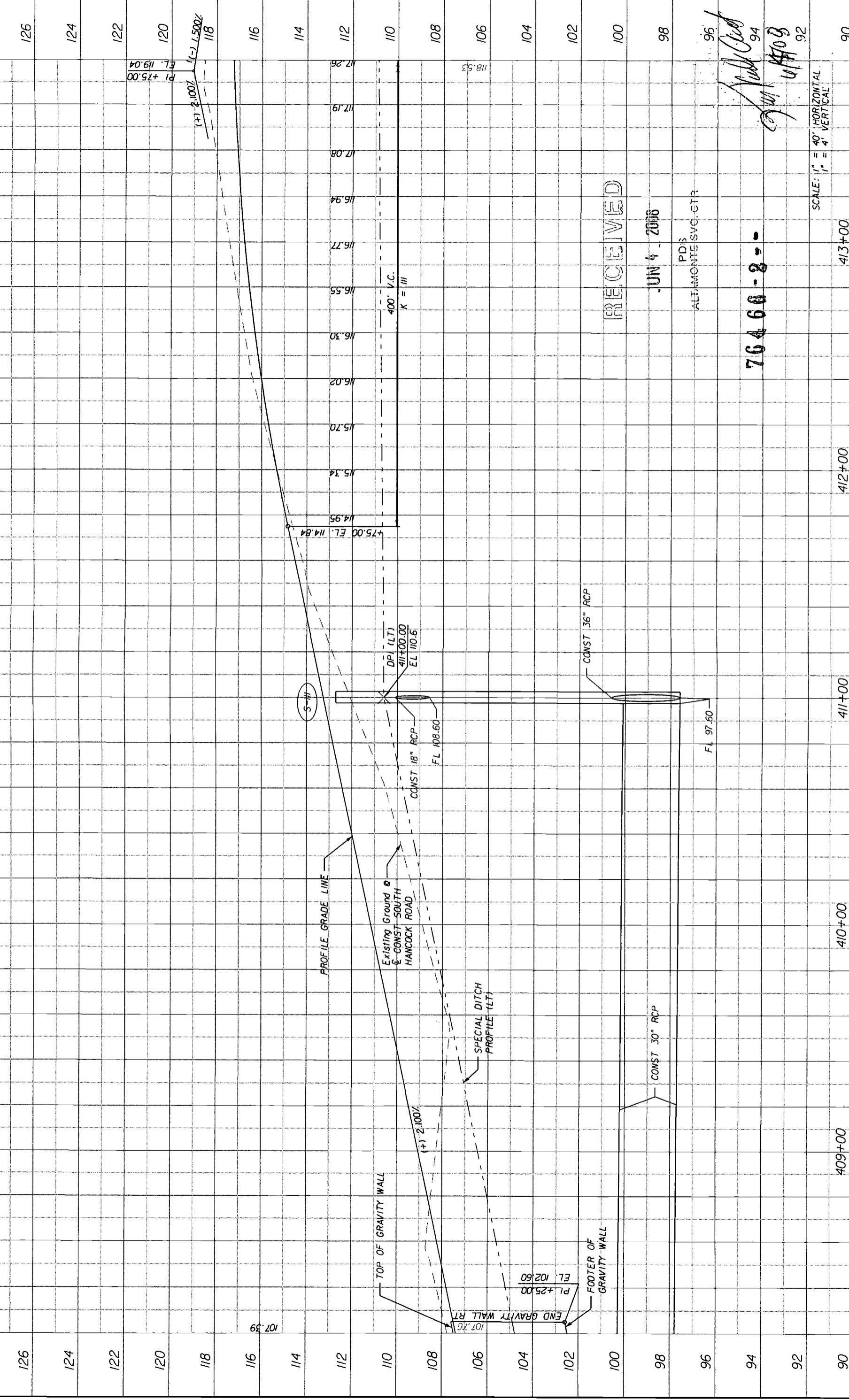
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				<p>SHEET NO. 19A</p>



DATE	BY	DESCRIPTION

REVISIONS	DESCRIPTION

HNTB HNTB CORPORATION 300 PRINER BLVD. SUITE 200 LAKE WARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794		LAKE COUNTY FLORIDA
SOUTH HANCOCK ROAD		PLAN AND PROFILE
SHEET NO.		20



SCALE: 1" = 40' HORIZONTAL
 1" = 4' VERTICAL

76466-2
 JUN 4 2008
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 PD'S
 ALIAMONTE SVC-CTR

DATE	BY	DESCRIPTION

REVISIONS

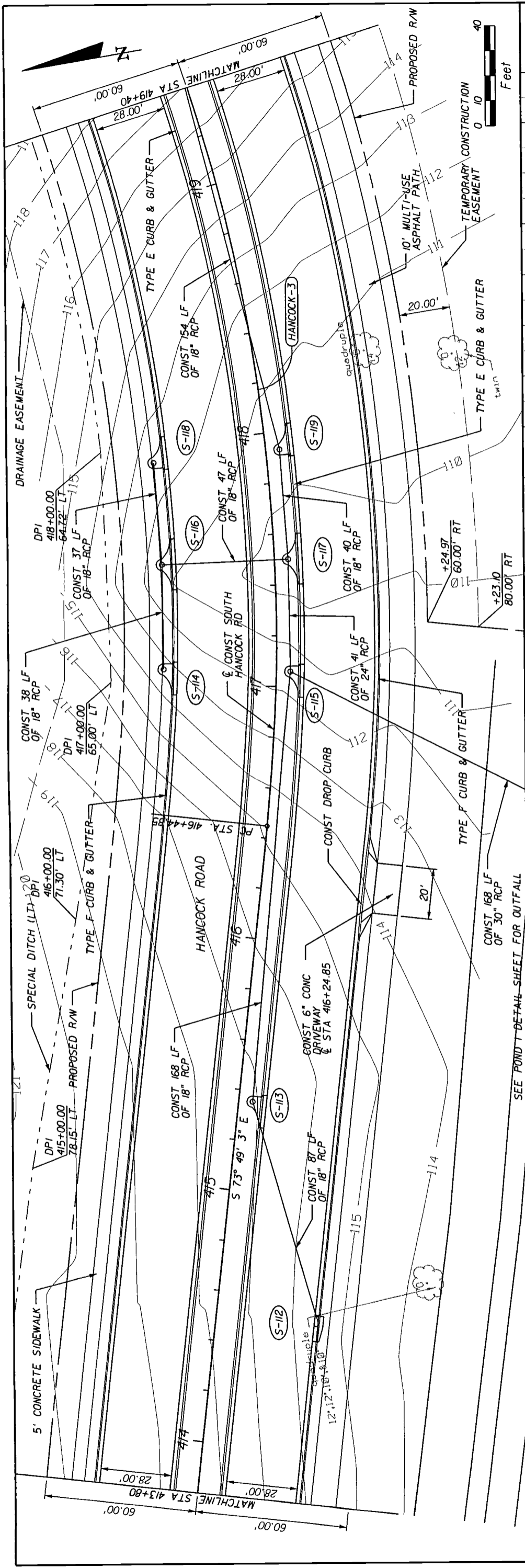
HNTB
 HNTB CORPORATION
 300 PRIMA BLVD,
 SUITE 200
 LAKE WARE, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794



SOUTH HANCOCK ROAD

PLAN AND PROFILE

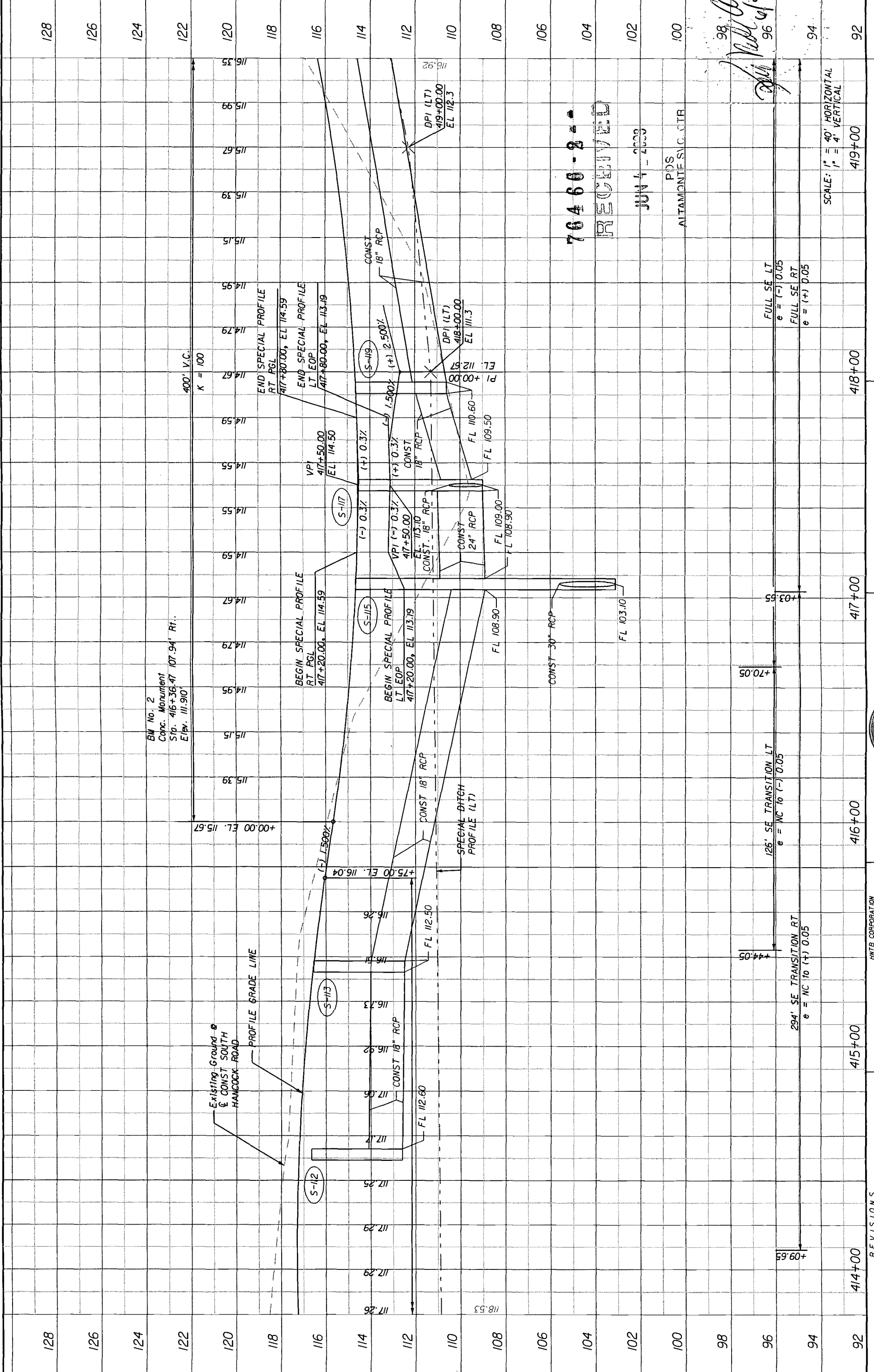
SHEET NO. 22



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70466-2								
RECEIVED								
JUN 4 2008								
PCS ALHAMBRA S.W.C. CTR								
SEE NEXT SHEET FOR PROFILE								
414+00	415+00	416+00	417+00	418+00	419+00			

DATE	BY	REVISIONS	DESCRIPTION
HNTB CORPORATION 300 PRIMA BLDG. SUITE 200 LAKE MARY, FL 32746 (407) 865-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794			
			LAKE COUNTY FLORIDA
SOUTH HANCOCK ROAD			PLAN AND PROFILE
			SHEET NO. 23

6/3/2008 10:33:40 AM mlf1631



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JUN 4 2003
PDS
AUTOMATIC S.C. CTR

98. *Ad*
96. *Ad*

SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL


FULL SE LT
e = (-) 0.05
FULL SE RT
e = (+) 0.05

294' SE TRANSITION RT
e = NC to (+) 0.05

126' SE TRANSITION LT
e = NC to (-) 0.05

REVISIONS	
DATE	DESCRIPTION

HNTB
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794

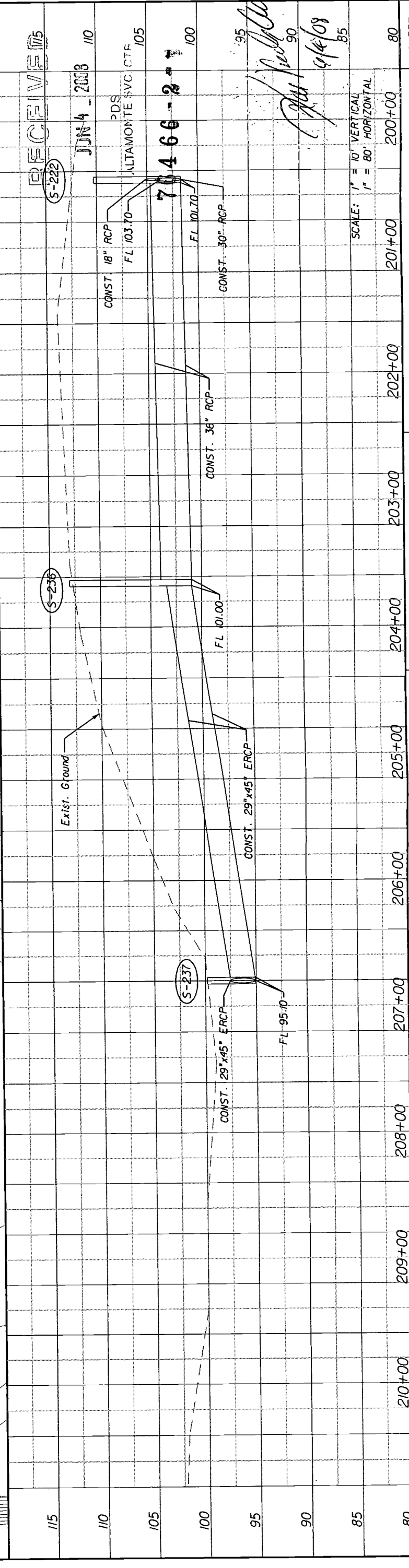
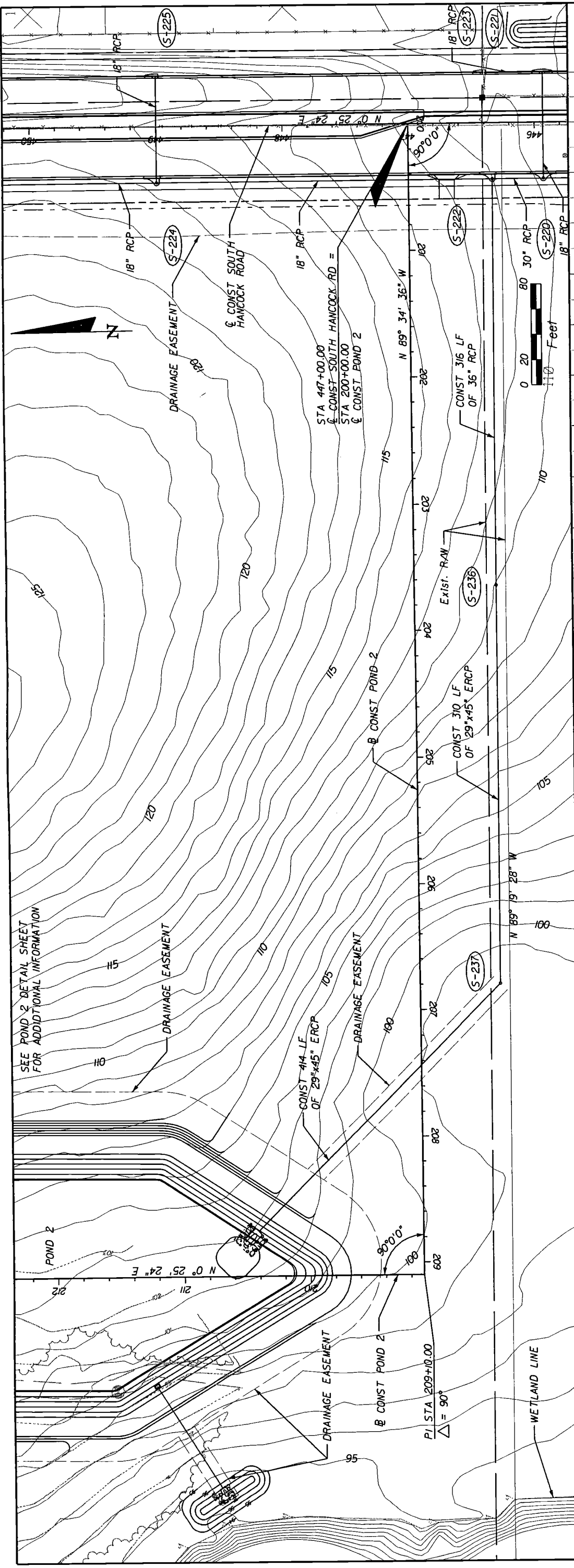


LAKE COUNTY
FLORIDA

SOUTH HANCOCK
ROAD

PLAN AND PROFILE

SHEET NO.	92
DATE	
BY	



REVISIONS		DATE	BY	DESCRIPTION
NO.	DESCRIPTION			

115	209+00	210+00	208+00	207+00	206+00	205+00	204+00	203+00	202+00	201+00	200+00
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CONST. 18" RCP	FL 103.70	CONST. 18" RCP	FL 101.70	CONST. 30" RCP	FL 101.70
CONST. 18" RCP	FL 103.70	CONST. 36" RCP	FL 101.00	CONST. 29" x 45" ERCP	FL 95.10
CONST. 18" RCP	FL 103.70	CONST. 36" RCP	FL 101.00	CONST. 29" x 45" ERCP	FL 95.10

SCALE: 1" = 10' VERTICAL	1" = 80' HORIZONTAL
--------------------------	---------------------

DATE		BY		DESCRIPTION	
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HNTB
 HNTB CORPORATION
 300 PRIMA BLVD,
 SUITE 200, FL 32746
 LAKE COUNTY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

SOUTH HANCOCK ROAD

LATERAL OUTFALL PLAN AND PROFILE

SHEET NO. 41

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JUN 4 2003 110

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 105

70466-2-1

100

95

90

85

80

CONST. SOUTH HANCOCK ROAD

CONST. SOUTH HANCOCK ROAD

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JUN 4 2008

S-99

STA. 402+00.00 (84.35 LT.)
CONST. (2) MITERED END SECTIONS (1:4)
INDEX NO. 272
FL 100.20 (LT.)

S-99

PDS
ALTA MONITE SVC. CTR

76466-2

STA. 402+00.00 (126.84 RT.)
CONST. (2) MITERED END SECTIONS (1:4)
INDEX NO. 272
FL 100.10 (RT.)

DRAINAGE EASEMENT

R/W

CONST. (2) 24" RCP

100.2

108.92

108.92

100.2

1:3

1:4

100.2

105.39

1:10

1:4

1:4

5'

STA. 402+00.00

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Handwritten signature and date: 6/10/08

REVISIONS

DATE	BY	DESCRIPTION	DATE

HNTB CORPORATION
300 PRIMA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794



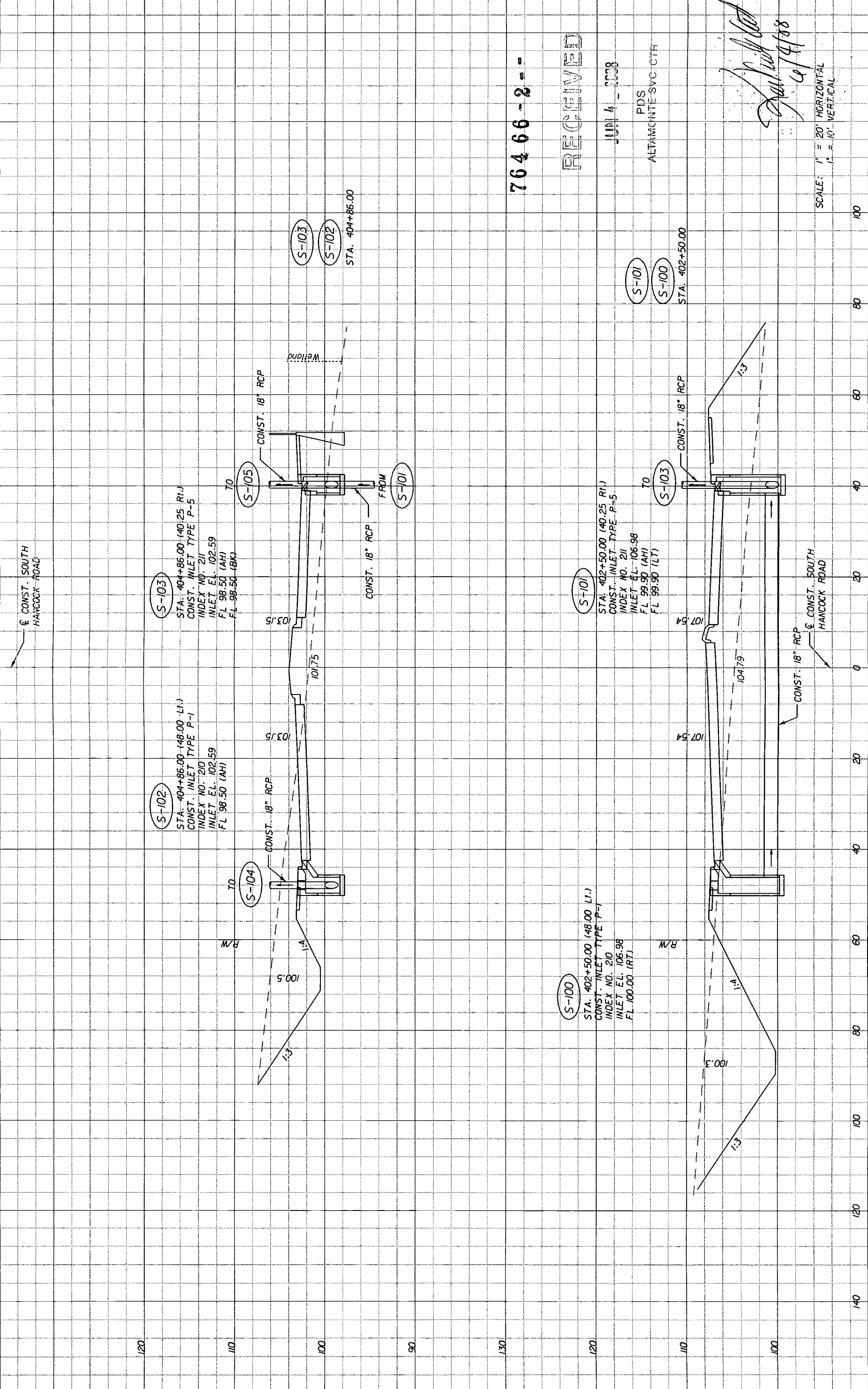
LAKE COUNTY
FLORIDA

SOUTH HANCOCK
ROAD

DRAINAGE STRUCTURES
SOUTH HANCOCK ROAD

SHEET NO.

43



(S-102)
 STA. 404+86.00 (48.00 L.I.)
 CONST. INLET TYPE P-1
 INDEX NO. 210
 INLET EL. 102.59
 FL 98.50 (AH)

(S-103)
 STA. 404+86.00 (40.25 R.I.)
 CONST. INLET TYPE P-5
 INDEX NO. 211
 INLET EL. 102.59
 FL 98.50 (AH)
 FL 98.50 (BK)

(S-103)
 (S-102)
 STA. 404+86.00

(S-100)
 STA. 402+50.00 (48.00 L.I.)
 CONST. INLET TYPE P-1
 INDEX NO. 210
 INLET EL. 106.98
 FL 99.90 (RT)

(S-101)
 STA. 402+50.00 (40.25 R.I.)
 CONST. INLET TYPE P-5
 INDEX NO. 211
 INLET EL. 106.98
 FL 99.90 (AH)
 FL 99.90 (LT)

(S-101)
 (S-100)
 STA. 402+50.00

76466-2

RECEIVED

JUN 4 2008

PDS
 ALTA MCMTE-SVC.CTH

Paul J. [Signature]
 6/1/08

SCALE: 1" = 20' HORIZONTAL
 1" = 10' VERTICAL

DATE	BY	DESCRIPTION	DATE

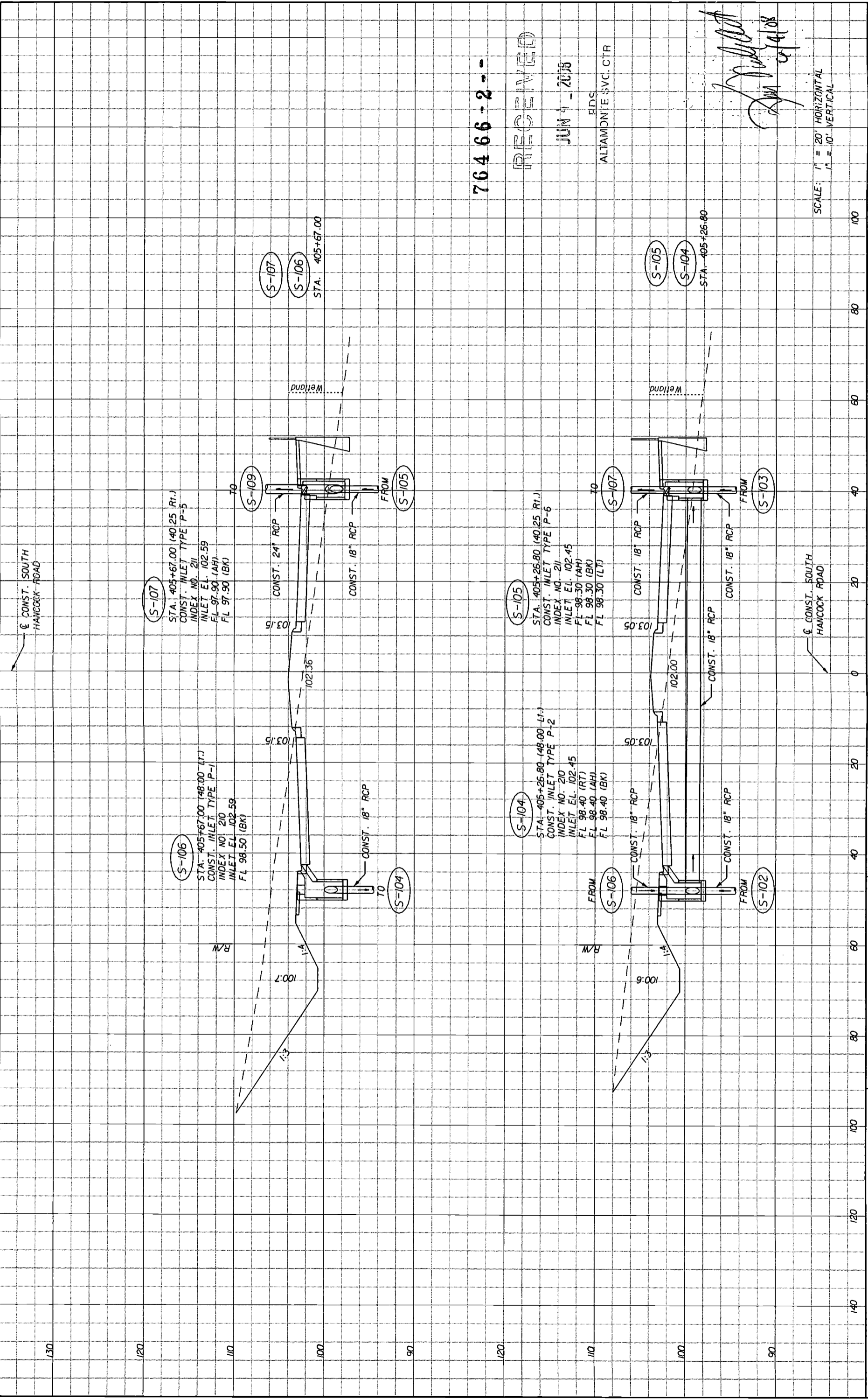
HNTB
 HNTB CORPORATION
 300 PRIMA BLVD.
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

SOUTH HANCOCK
 ROAD

DRAINAGE STRUCTURES
 SOUTH HANCOCK ROAD

SHEET
 NO. 44



76466-2--

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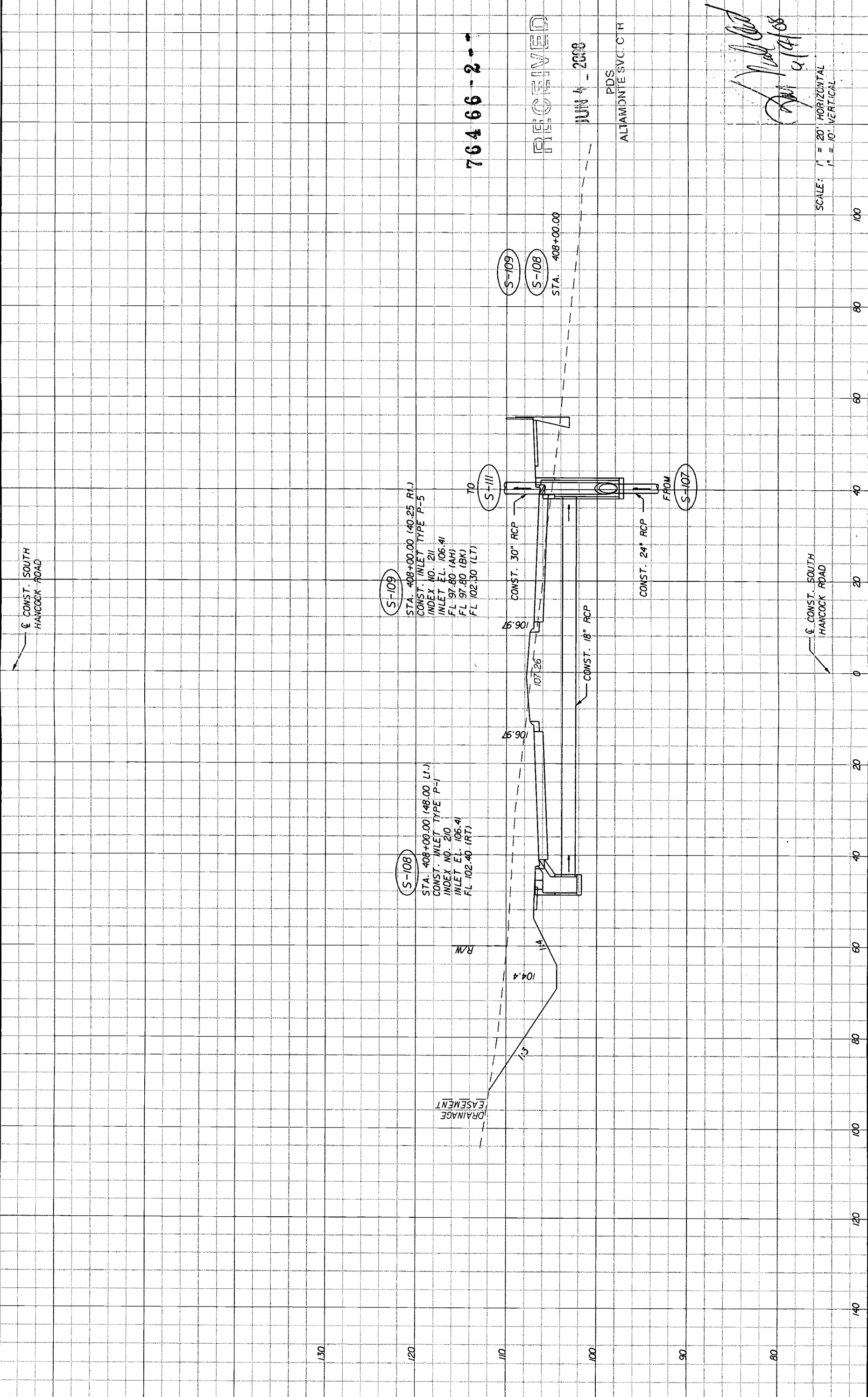
EDS
ALTA MONTE SVC. CTR

[Handwritten Signature]
6/3/08

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

REVISIONS		DATE	
NO.	DESCRIPTION	DATE	

<p>HNTB HNTB CORPORATION 300 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44754</p>	<p>LAKE COUNTY FLORIDA</p>	<p>SOUTH HANCOCK ROAD</p>	<p>DRAINAGE STRUCTURES SOUTH HANCOCK ROAD</p>	<p>SHEET NO. 45</p>
--	--------------------------------	-------------------------------	---	-----------------------------



76466-2

RECEIVED

JUN 4 2008

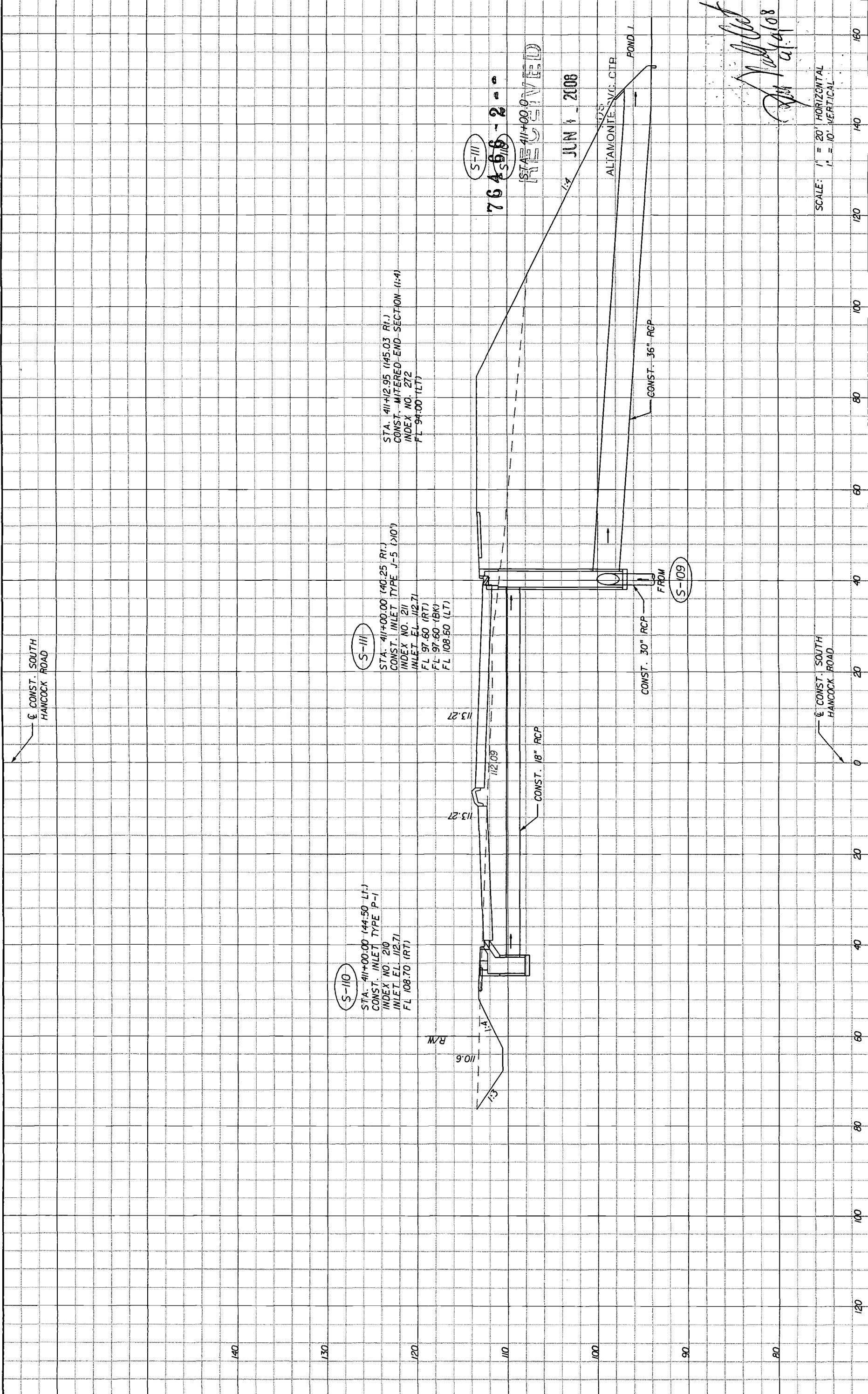
PDS
ALTAMONTE SVC. CTR

[Handwritten Signature]
6/4/08

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

REVISIONS		DATE	
DATE	BY	DESCRIPTION	DATE

HNTB HNTB CORPORATION 300 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794		LAKE COUNTY FLORIDA	SOUTH HANCOCK ROAD	DRAINAGE STRUCTURES SOUTH HANCOCK ROAD	SHEET NO. 46
---	--	------------------------	-----------------------	---	-----------------



S-110
 STA. 41+00.00 (44-50 LT.)
 CONST. INLET TYPE P-1
 INDEX NO. 210
 INLET EL. 112.71
 FL 108.70 (RT)

S-III
 STA. 41+22.95 (45.03 RT.)
 CONST. INLET TYPE J-5 (10')
 INDEX NO. 211
 INLET EL. 112.71
 FL 97.60 (RT)
 FL 97.60 (BK)
 FL 108.60 (LT)

S-III
 STA. 41+41.00 (41.00 RT.)
 CONST. MITERED-END SECTION (1:4)
 INDEX NO. 272
 FL 94.00 (LT)

76498-2

STATIONED

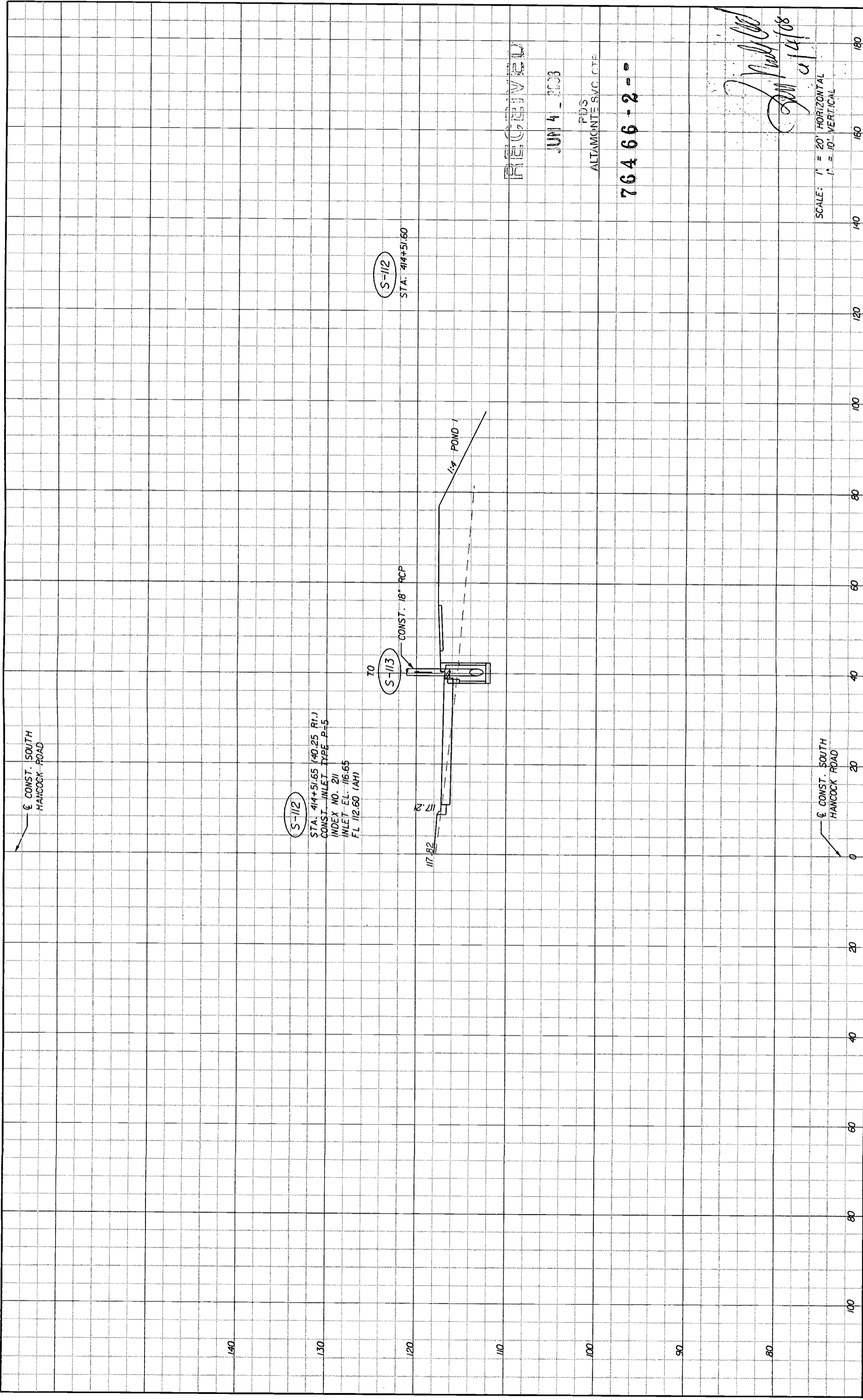
JUN 4 2008

M. M. [unclear]
 6/4/08

SCALE: 1" = 20' HORIZONTAL
 1" = 10' VERTICAL

REVISIONS		DATE	
NO.	DESCRIPTION	DATE	BY

HNTB HNTB CORPORATION 300 PRIMA BLDG. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794		LAKE COUNTY FLORIDA
SOUTH HANCOCK ROAD		DRAINAGE STRUCTURES SOUTH HANCOCK ROAD
SHEET NO. 47		6/3/2008 PM 12:03:46 \\LAK001\mwork\1\008\41561-2\41561202520\Drawings\DRS\DR001.DGN



S-112

STA. 414+51.65 (40.25 RT.)
 CONST. INLET TYPE P-5
 INDEX NO. 211
 INLET EL. 116.65
 FL 112.60 (AH)

S-113

CONST. 18" RCP

S-112

STA. 414+51.60

1:4 POND 1

117.82

± CONST. SOUTH HANCOCK ROAD

± CONST. SOUTH HANCOCK ROAD

RECEIVED

JUN 4 2003

FDS
 ALTAMONTE SVC. CTR.

76466-2

Handwritten signature and date
 6/14/03

SCALE: 1" = 20' HORIZONTAL
 1" = 10' VERTICAL

REVISIONS		DATE	
NO.	DESCRIPTION	DATE	BY

HNTB HNTB CORPORATION 300 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN ANWANT, P.E. FL. REGISTRATION NO. 44794		LAKE COUNTY FLORIDA	SOUTH HANCOCK ROAD	DRAINAGE STRUCTURES SOUTH HANCOCK ROAD	SHEET NO. 48
--	--	------------------------	-----------------------	---	--------------------

CONST. SOUTH
HANCOCK ROAD

S-113

STA. 415+35.65 (5.50 RI.)
CONST. INLET TYPE P-1
INDEX NO. 210
INLET EL. 116.56
FL 112.50 (BK)
FL 112.50 (AH)

TO S-115

CONST. 18" RCP

117.30

116.56

FROM S-112

CONST. 18" RCP

S-113

STA. 415+35.60

1:4

RECEIVED

JUN 11 2000

PDS
ALTAIR/ITE SVC. CTR

76466-2-

[Handwritten Signature]
6/14/08

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

100

80

60

40

20

0

20

40

60

80

100

120

140

CONST. SOUTH
HANCOCK ROAD

DATE: BI: DESCRIPTION: DATE:

HNTB
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794

HNTB CORPORATION
300 ORLINA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

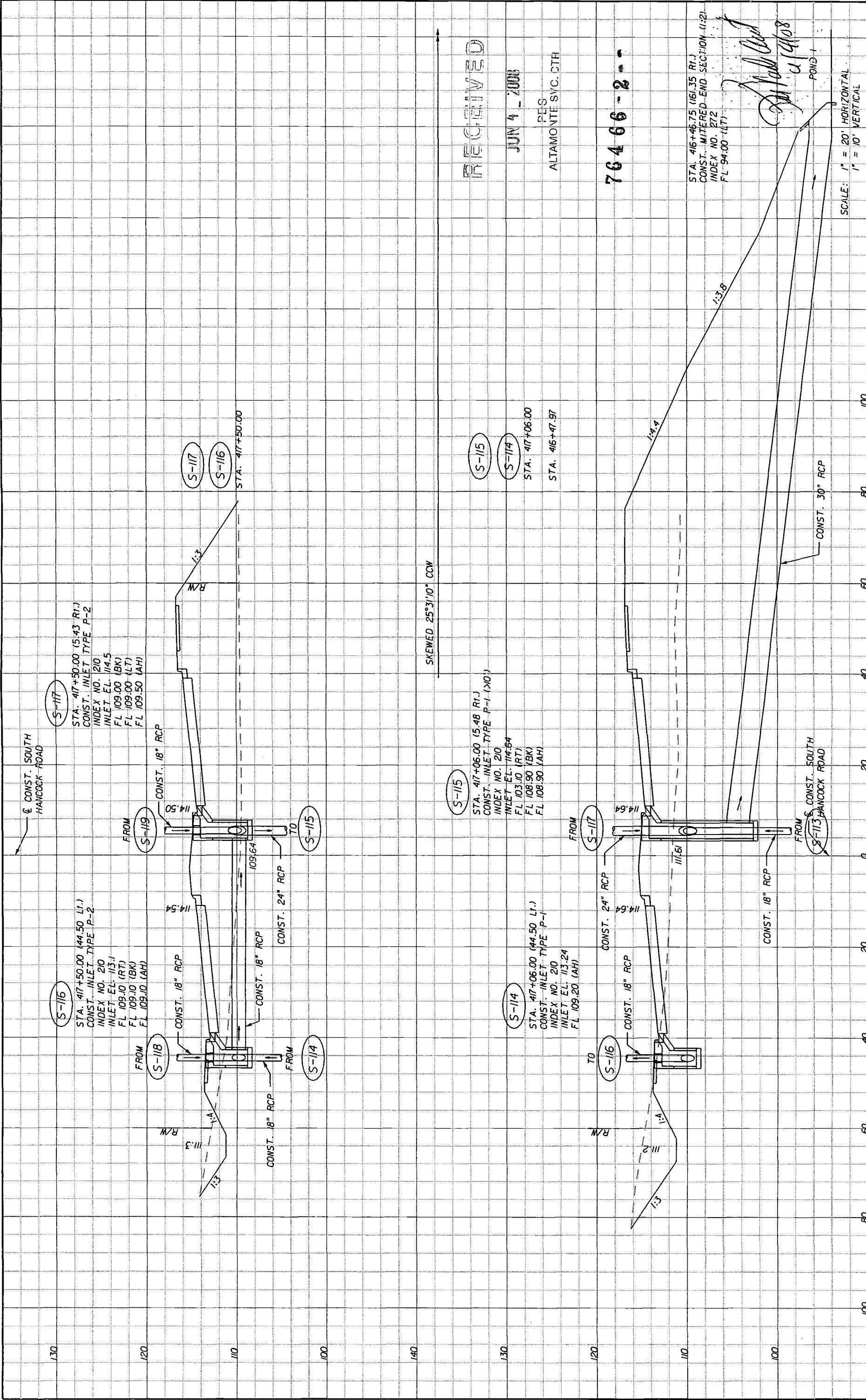


SOUTH HANCOCK
ROAD

DRAINAGE STRUCTURES
SOUTH HANCOCK ROAD

SHEET
NO.

49



CONST. SOUTH HANCOCK ROAD

CONST. SOUTH HANCOCK ROAD

CONST. SOUTH HANCOCK ROAD

CONST. SOUTH HANCOCK ROAD

CONST. SOUTH HANCOCK ROAD

RECEIVED

JUN 4 2008

PES
ALTA MONTE SVC. CTR

76466-2

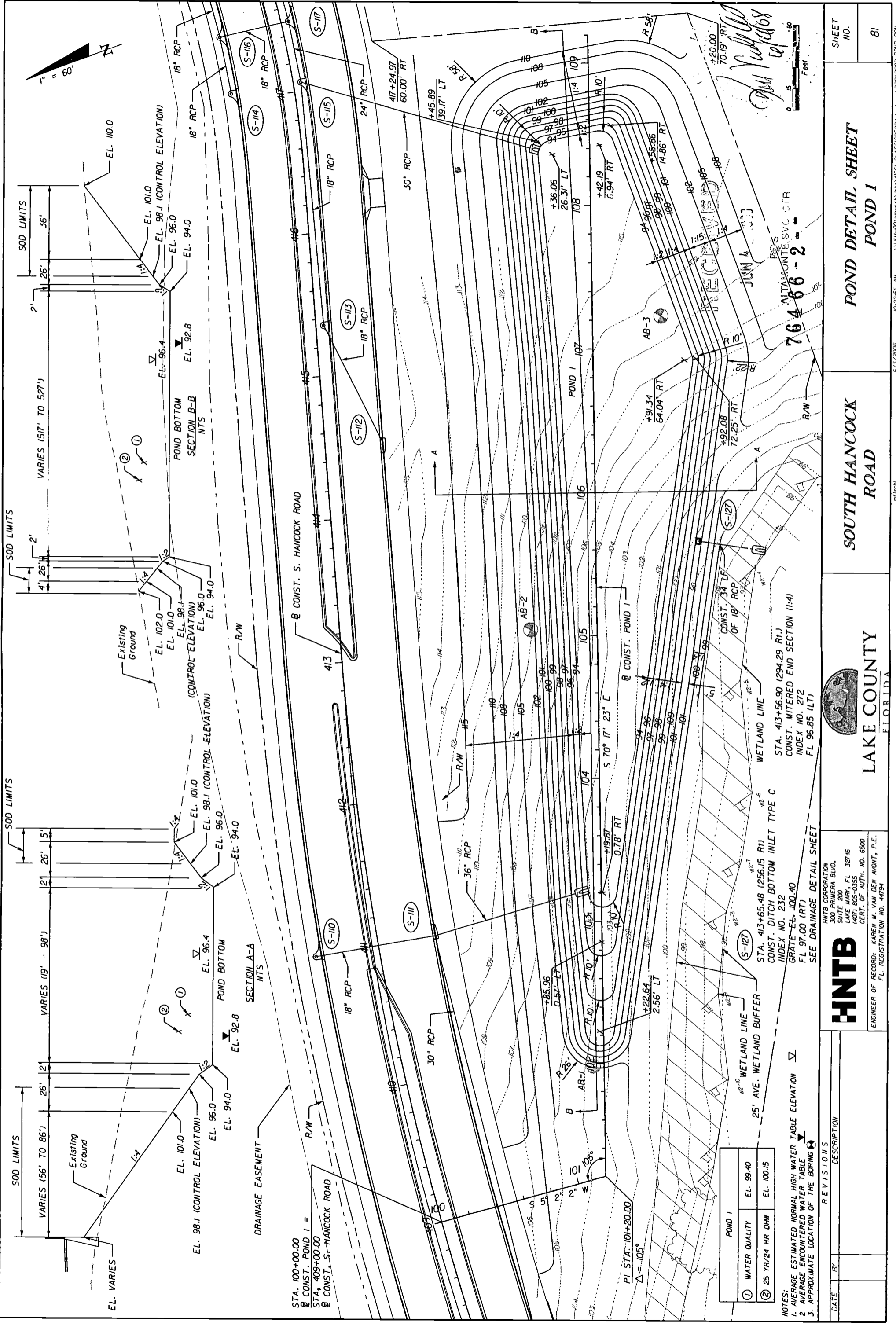
STA. 416+46.75 (161.35 RT.)
CONST. MITERED END SECTION (1:2)
INDEX NO. 272
FL 94.00 (LT)

Handwritten signature and date
6/11/08

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

REVISIONS		DATE	
NO.	DESCRIPTION	DATE	

<p>HNTB HNTB CORPORATION 300 PRINCE BLVD, SUITE 200 LAKE MARY, FL 32746 (407) 895-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794</p>		<p>LAKE COUNTY FLORIDA</p>
<p>SOUTH HANCOCK ROAD</p>		<p>SOUTH HANCOCK ROAD</p>
<p>DRAINAGE STRUCTURES</p>		<p>SOUTH HANCOCK ROAD</p>
<p>SHEET NO.</p>		<p>50</p>



SOD LIMITS

VARIABLES (56' TO 86')

VARIABLES (19' - 98')

VARIABLES (19' TO 86')

SOD LIMITS

VARIABLES (517' TO 527')

SOD LIMITS

EL. VARIES
 EL. 98.1 (CONTROL ELEVATION)
 EL. 96.0
 EL. 94.0
 POND BOTTOM
 SECTION A-A
 NTS

EL. 101.0
 EL. 98.1 (CONTROL ELEVATION)
 EL. 96.0
 EL. 94.0
 POND BOTTOM
 SECTION B-B
 NTS

EL. 102.0
 EL. 101.0
 EL. 98.1 (CONTROL ELEVATION)
 EL. 96.0
 EL. 94.0
 POND BOTTOM
 SECTION B-B
 NTS

EL. 98.1 (CONTROL ELEVATION)
 EL. 96.0
 EL. 94.0
 POND BOTTOM
 SECTION A-A
 NTS

EL. 101.0
 EL. 98.1 (CONTROL ELEVATION)
 EL. 96.0
 EL. 94.0
 POND BOTTOM
 SECTION A-A
 NTS

EL. 102.0
 EL. 101.0
 EL. 98.1 (CONTROL ELEVATION)
 EL. 96.0
 EL. 94.0
 POND BOTTOM
 SECTION B-B
 NTS

EL. 101.0
 EL. 98.1 (CONTROL ELEVATION)
 EL. 96.0
 EL. 94.0
 POND BOTTOM
 SECTION B-B
 NTS

CONST. S. HANCOCK ROAD

CONST. POND 1 =
 STA. 409+00.00
 CONST. S. HANCOCK ROAD

CONST. DITCH BOTTOM INLET TYPE C
 STA. 413+65.48 (256.15 RI.)
 INDEX NO. 232
 GRATE EL. 100.40
 FL 97.00 (RT)
 SEE DRAINAGE DETAIL SHEET

CONST. MITERED END SECTION (1:4)
 STA. 413+56.90 (294.29 RI.)
 INDEX NO. 272
 FL 96.85 (LT)

WETLAND LINE
 25' AVE. WETLAND BUFFER
 WETLAND LINE

W2-10 WETLAND LINE
 W2-5 WETLAND LINE
 W2-3 WETLAND LINE

PI STA. 101+20.00
 Δ = -105°

S 70° 17' 23" E
 0.78' RT

AB-1
 AB-2
 AB-3

S-110
 S-111
 S-112
 S-113
 S-114
 S-115
 S-116
 S-117

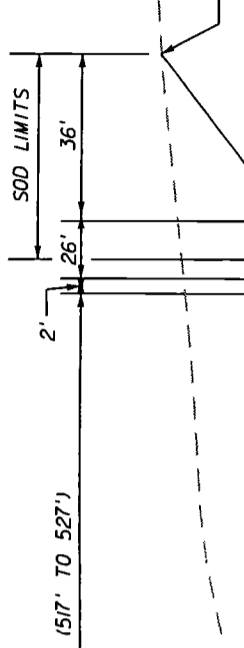
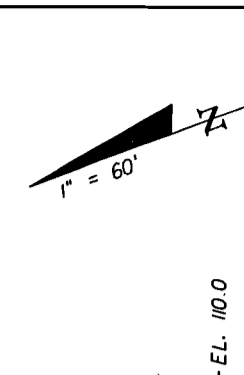
18" RCP
 24" RCP
 30" RCP
 36" RCP

410
 411
 412
 413
 414
 415
 416
 417

100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117

WATER QUALITY EL. 99.40
 25 YR/24 HR DHW EL. 100.15

NOTES:
 1. AVERAGE ESTIMATED NORMAL HIGH WATER TABLE ELEVATION
 2. AVERAGE ENCOUNTERED WATER TABLE
 3. APPROXIMATE LOCATION OF THE BORING



DATE
 BY
 DESCRIPTION

REVISIONS

HNTB CORPORATION
 300 PRIMERA BLVD.
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794

ALTAIR MONTE S.V.C. CTR
 764 66-2

JUN 4 2003

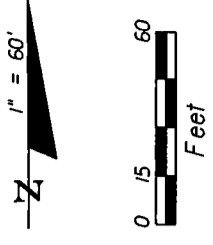
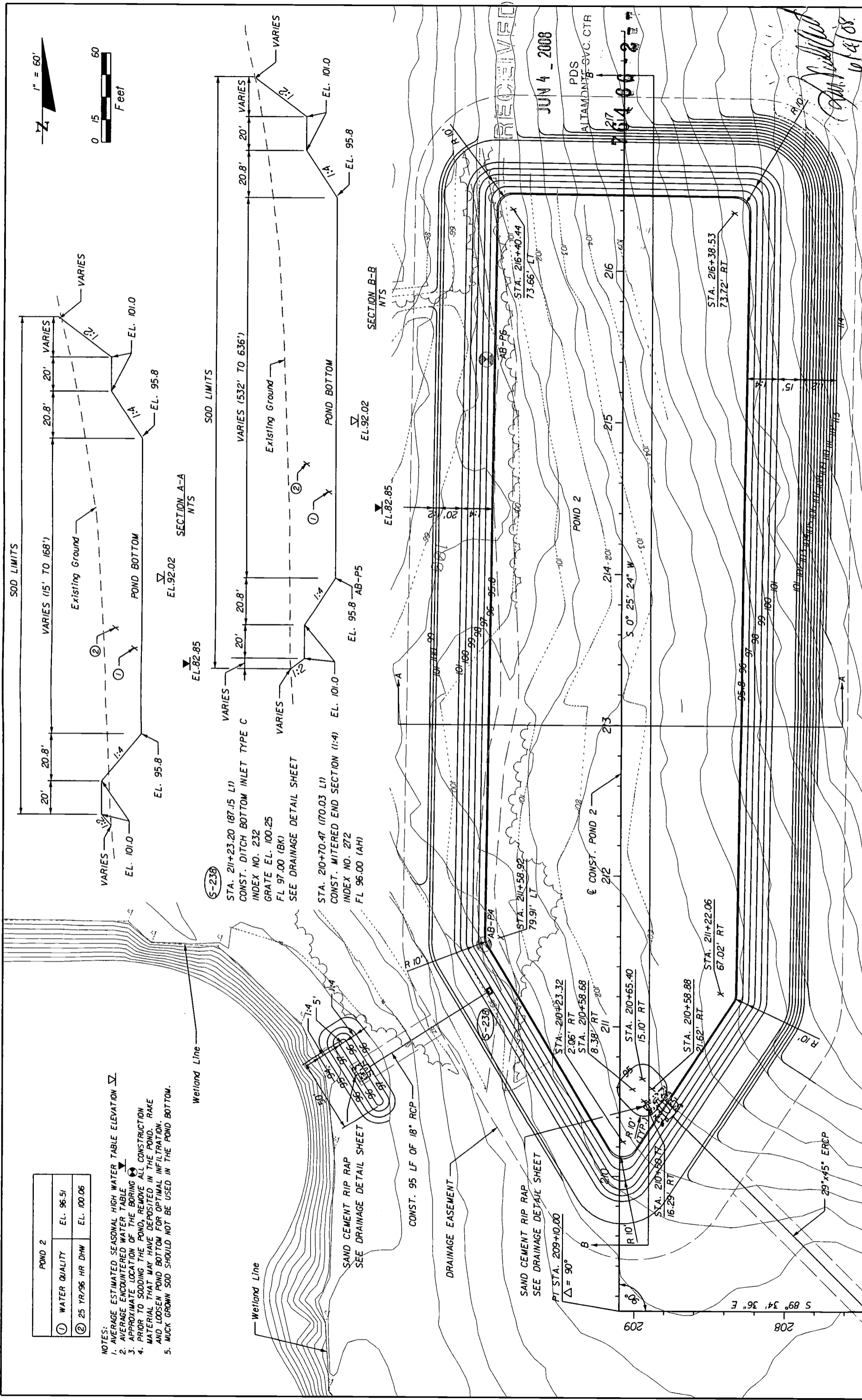
SOUTH HANCOCK ROAD
 LAKE COUNTY
 FLORIDA

POND DETAIL SHEET
 POND 1

SHEET NO. 81

POND 2	
① WATER QUALITY	EL. 96.51
② 25 YR/96 HR DWH	EL. 100.06

- NOTES:
1. AVERAGE ESTIMATED SEASONAL HIGH WATER TABLE ELEVATION ∇
 2. AVERAGE ENCOUNTERED WATER TABLE ∇
 3. APPROXIMATE LOCATION OF THE BORING \bullet
 4. PRIOR TO SODDING THE POND, REMOVE ALL CONSTRUCTION MATERIAL THAT MAY HAVE DEPOSITED IN THE POND. RAKE AND LOOSEN POND BOTTOM FOR OPTIMAL INFILTRATION.
 5. MUCK GROWN SOD SHOULD NOT BE USED IN THE POND BOTTOM.



DATE	BY	DESCRIPTION

HNTB

HNTB CORPORATION
 300 PRIMA BLVD.
 SUITE 200
 LAKE WALKER, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794

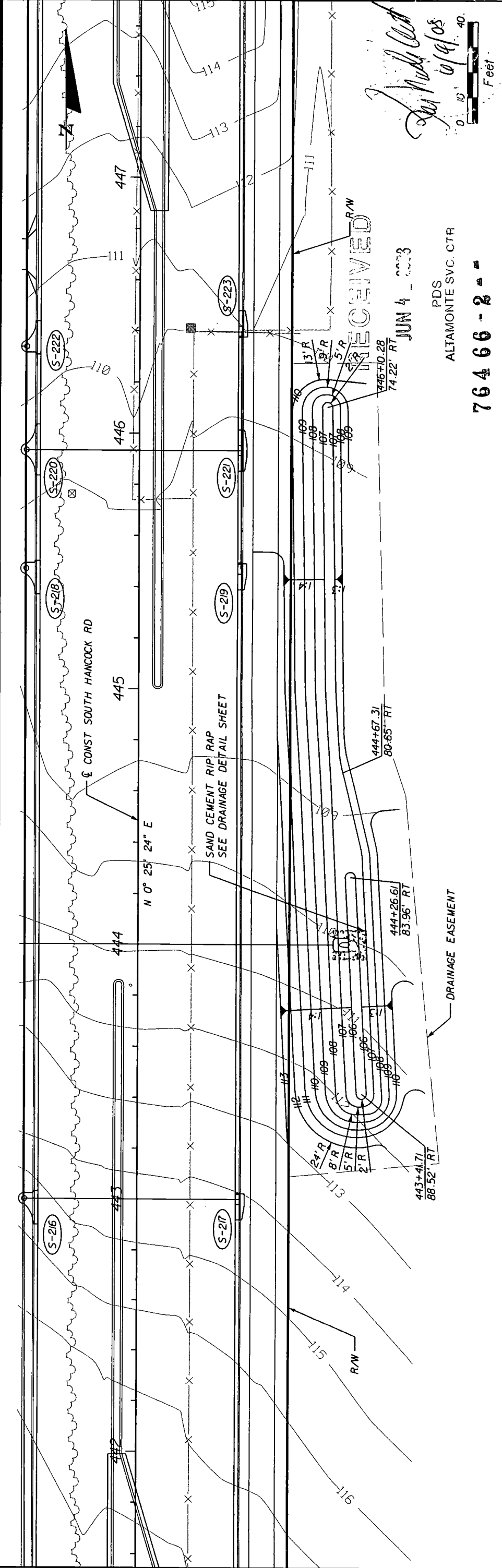
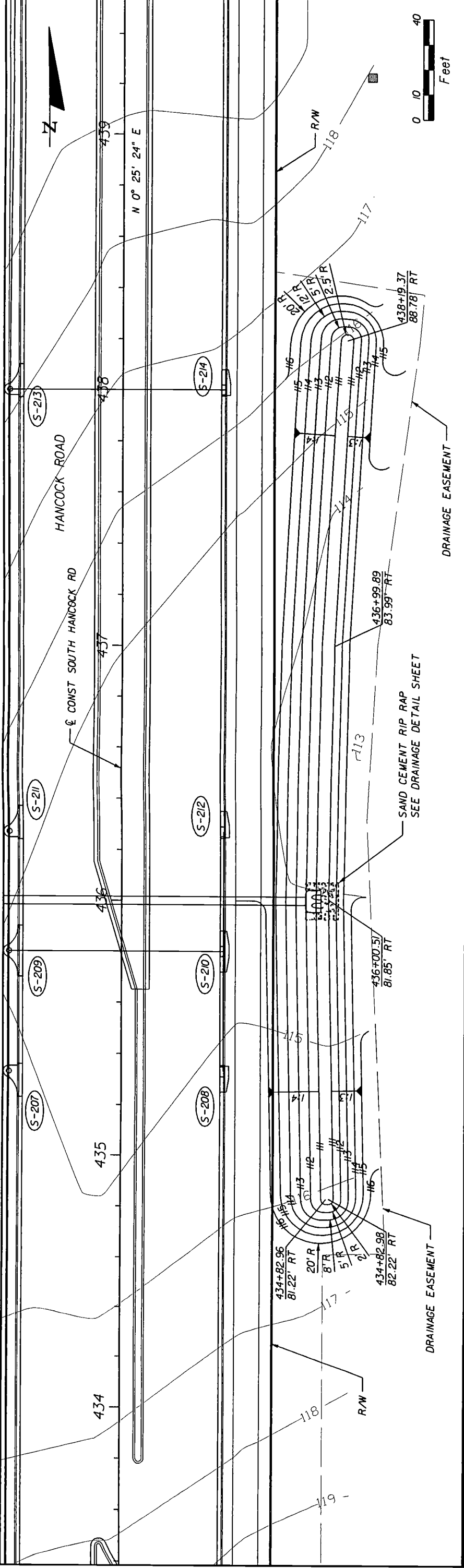
LAKE COUNTY
 FLORIDA

SOUTH HANCOCK
 ROAD

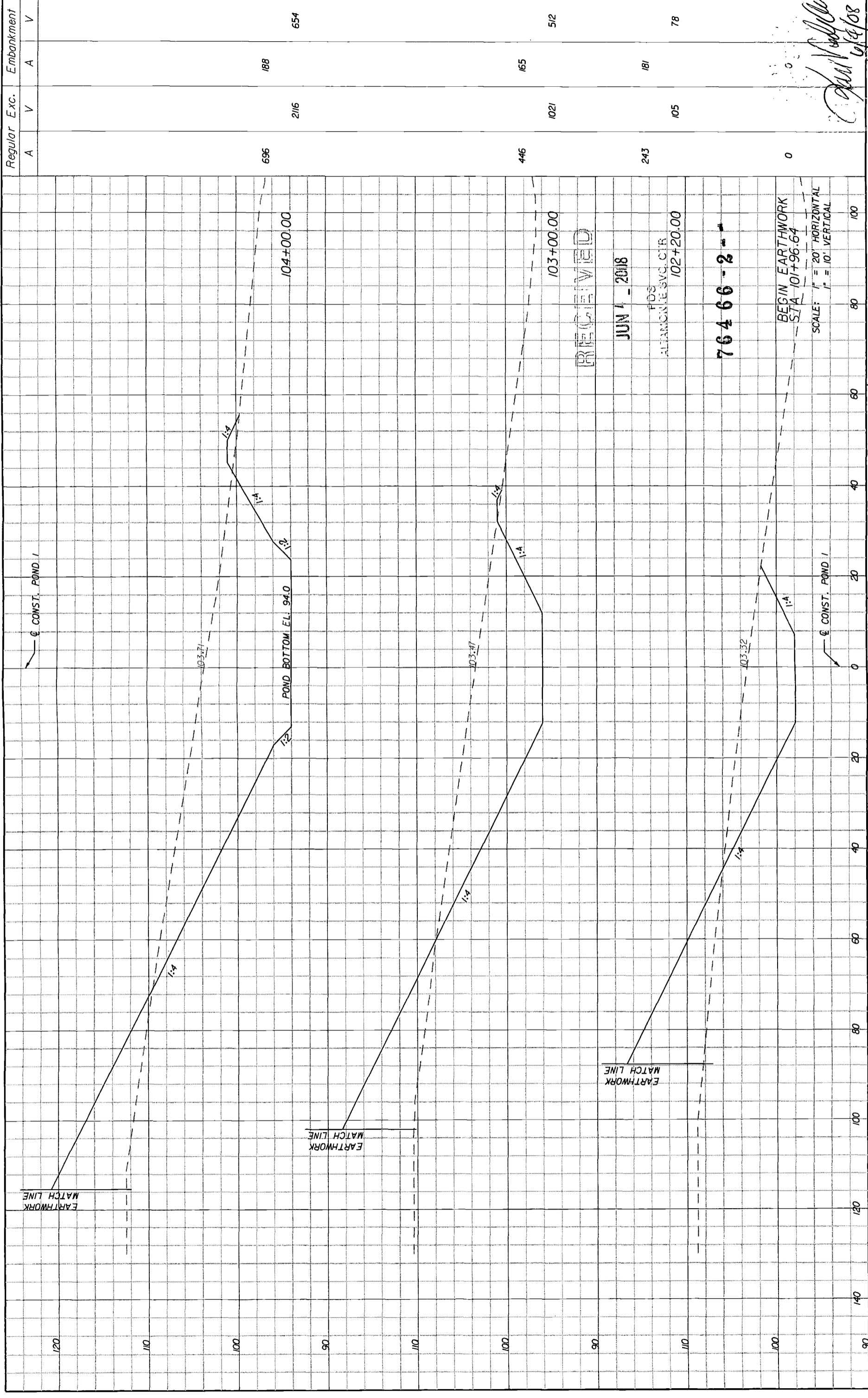
POND DETAIL SHEET
 POND 2


SHEET NO. 82

RECEIVED
 JUN 4 2008
 PDS
 ALTIMANER & ASSOCIATES, P.C.



<p>HNTB HNTB CORPORATION 300 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794</p>		<p>LAKE COUNTY FLORIDA</p>	<p>SOUTH HANCOCK ROAD</p>	<p>SWALE DETAILS</p>	<p>SHEET NO. 83</p>
<p>REVISIONS</p>	<p>DATE</p>	<p>BY</p>	<p>DESCRIPTION</p>		



	 <p>LAKE COUNTY FLORIDA</p>	<p>SOUTH HANCOCK ROAD</p>	<p>POND 1 CROSS SECTIONS</p>	<p>SHEET NO. 84</p>						
<p>HNTB HNTB CORPORATION 300 PRIMERA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 FL. REGISTRATION NO. 44794</p>										
<p>ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794</p>										
<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					DATE	BY	DESCRIPTION			
DATE	BY	DESCRIPTION								

Paul J. ...
 6/23/2008
 10:24:26 AM
 6/23/2008 10:24:26 AM
 \\F:\M\00\Drawings\1\LakeMary\REG-2\162520\162520.dwg
 76466-2

Regular Exc. Embankment
A V A V

EARTHWORK
MATCH LINE

120

110

100

90

EARTHWORK
MATCH LINE

120

110

100

90

140

120

100

80

60

40

20

0

20

40

60

80

100

± CONST. POND 1

1:4

1:2

POND BOTTOM EL. 94.0

106+00.00

1:4

1:2

POND BOTTOM EL. 94.0

105+00.00

1:4

1:2

POND BOTTOM EL. 94.0

104+00.00

1:4

1:2

POND BOTTOM EL. 94.0

103+00.00

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

± CONST. POND 1

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

REVISIONS

DATE BY DESCRIPTION

HNTB
HNTB CORPORATION
300 PRIMA BLDG,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794



SOUTH HANCOCK ROAD

POND 1 CROSS SECTIONS

SHEET NO.

85

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JUN 4 2008

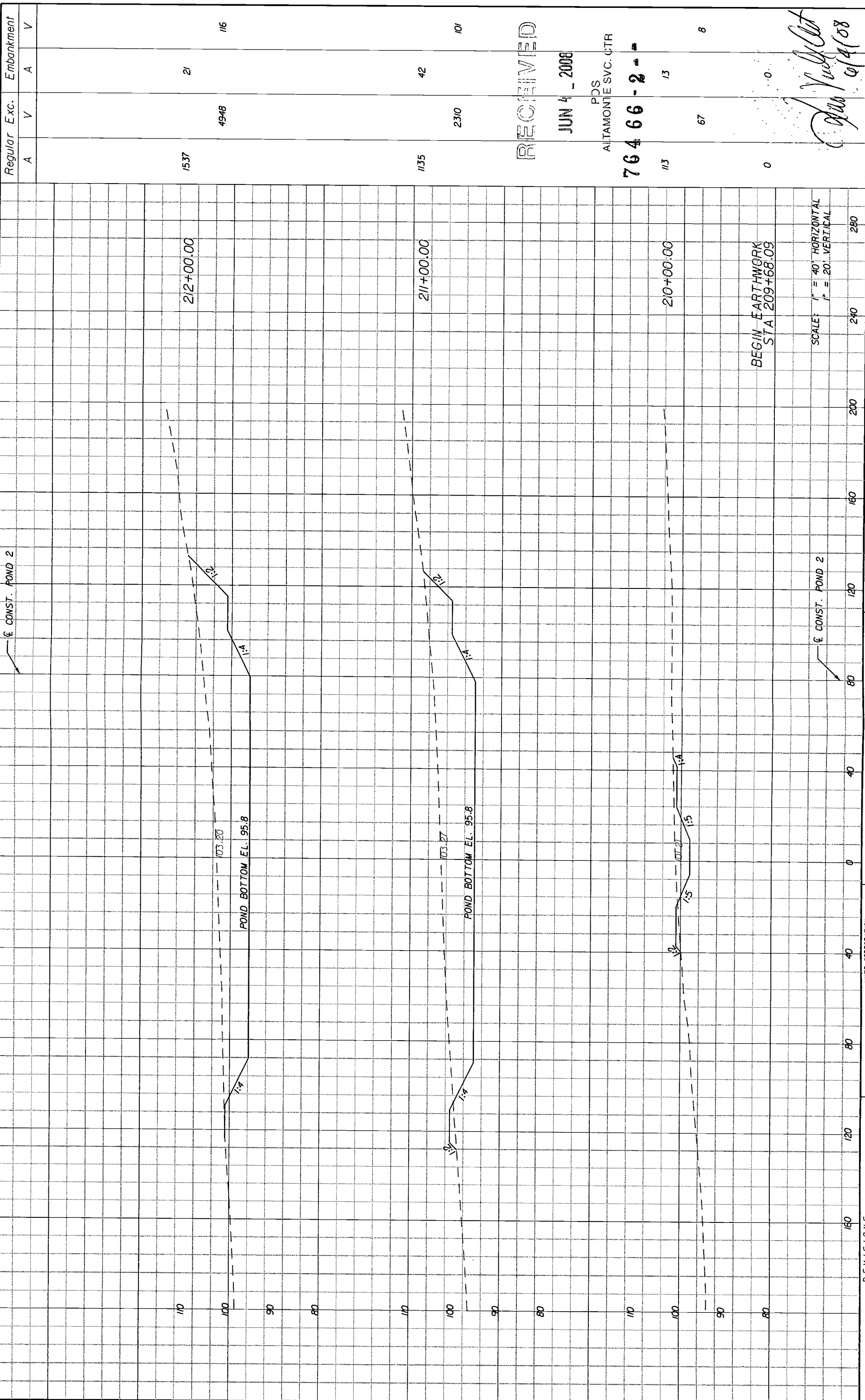
PDS
ALTAMONTE S/C CTR

76466-277

3039

669

Handwritten signature and notes



Regular Exc. A V A V

Embankment A V

1537

212+00.00

21

4948

116

1135

211+00.00

42

2310

101

RECEIVED

JUN 4 2008

PDS
ALTAMONTE SVC. CTR

76466-2

113

210+00.00

13

67

8

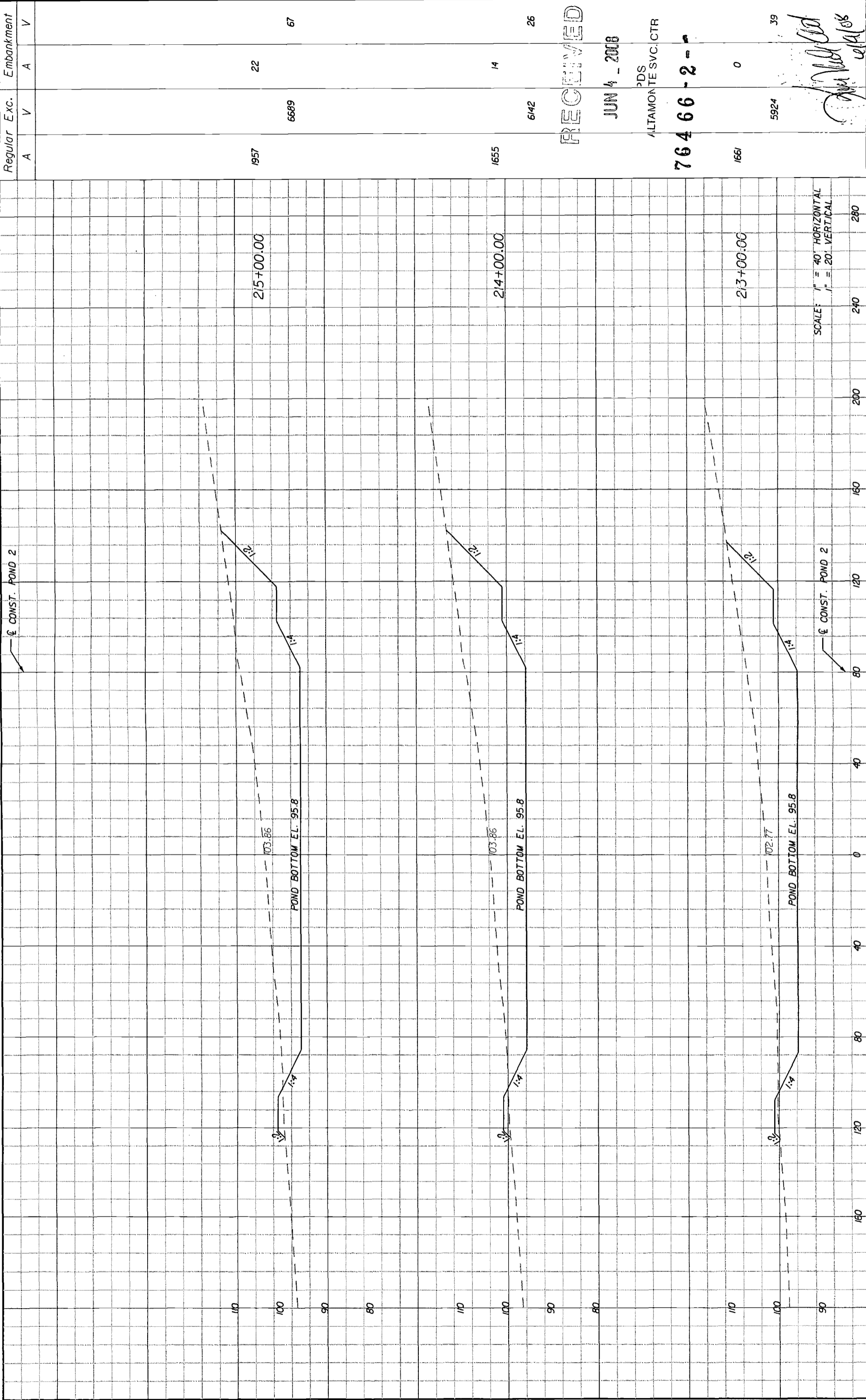
BEGIN EARTHWORK
STA 209+68.09

SCALE: 1" = 40' HORIZONTAL
1" = 20' VERTICAL

Handwritten signature and date: 6/4/08

REVISIONS		DESCRIPTION	
DATE	BY		

<p>HNTB CORPORATION 300 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794</p>		<p>LAKE COUNTY FLORIDA</p>		<p>SOUTH HANCOCK ROAD</p>		<p>POND 2 CROSS SECTIONS</p>		<p>SHEET NO. 87</p>	
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Regular Exc.		Embankment	
A	V	A	V
1957	6689	22	67
1655	6142	14	26
1661	5924	0	39

RECEIVED

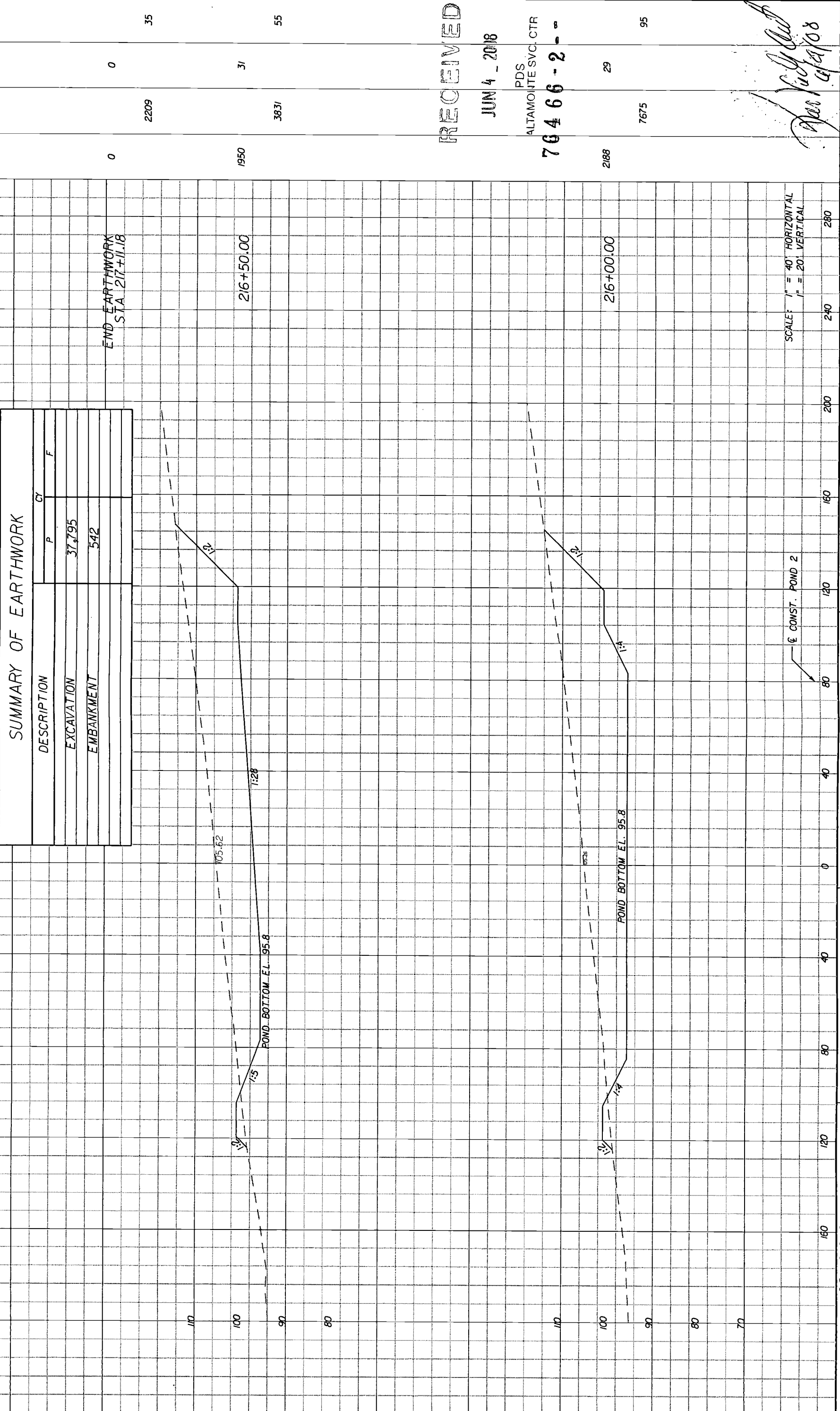
JUN 4 2008
 PDS
 ALTAMONTE SVC. CTR

76466-2-

SCALE: 1" = 40' HORIZONTAL
 1" = 20' VERTICAL

[Handwritten Signature]
 6/3/2008

HNTB HNTB CORPORATION 301 PRIMA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794		LAKE COUNTY FLORIDA		SOUTH HANCOCK ROAD		POND 2 CROSS SECTIONS		SHEET NO. 88
REVISIONS DATE BY DESCRIPTION								



END EARTHWORK
STA 217+11.18

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PDS
ALTAMONTE SVC. CTR
76466-2

2188 29 7675 95

Open Pond
6/1/08

Regular Exc.		Embankment	
A	V	A	V
0	2209	0	35
1950		31	
	3831		55

SUMMARY OF EARTHWORK	
DESCRIPTION	CY
EXCAVATION	37,795
EMBANKMENT	542

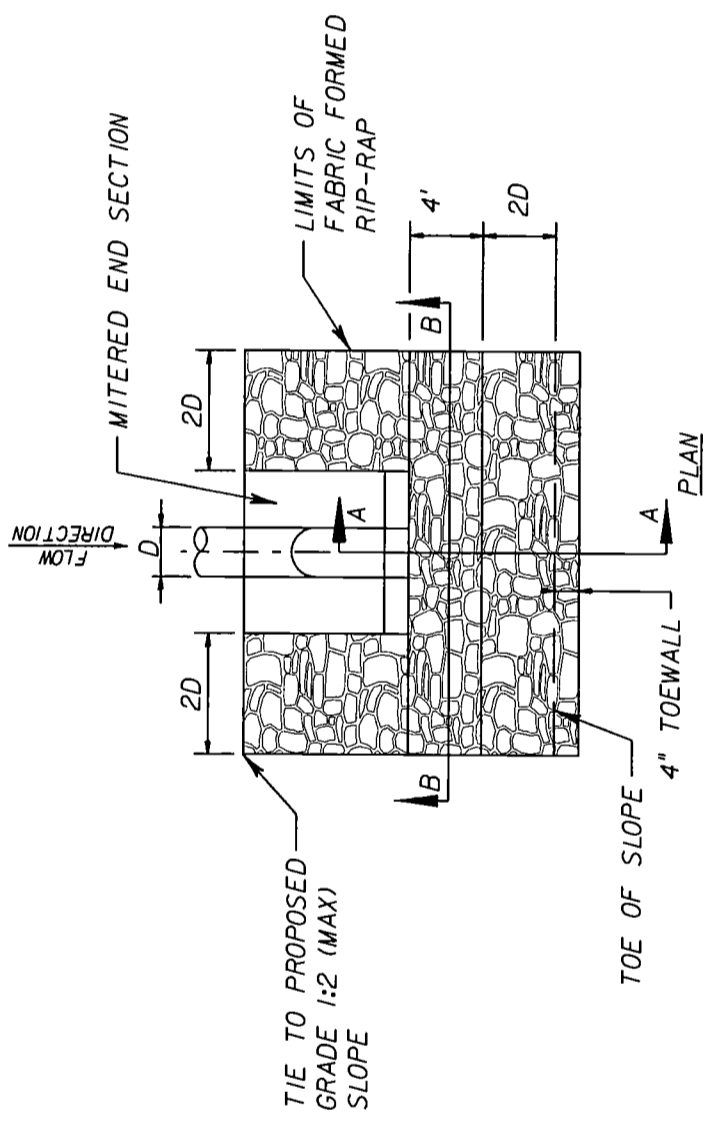
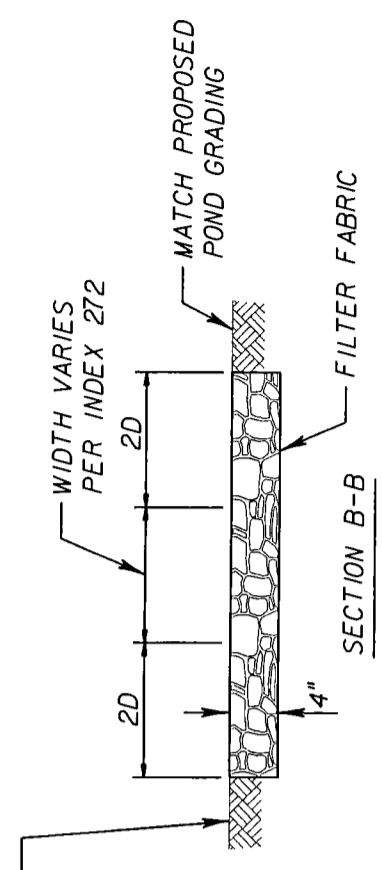
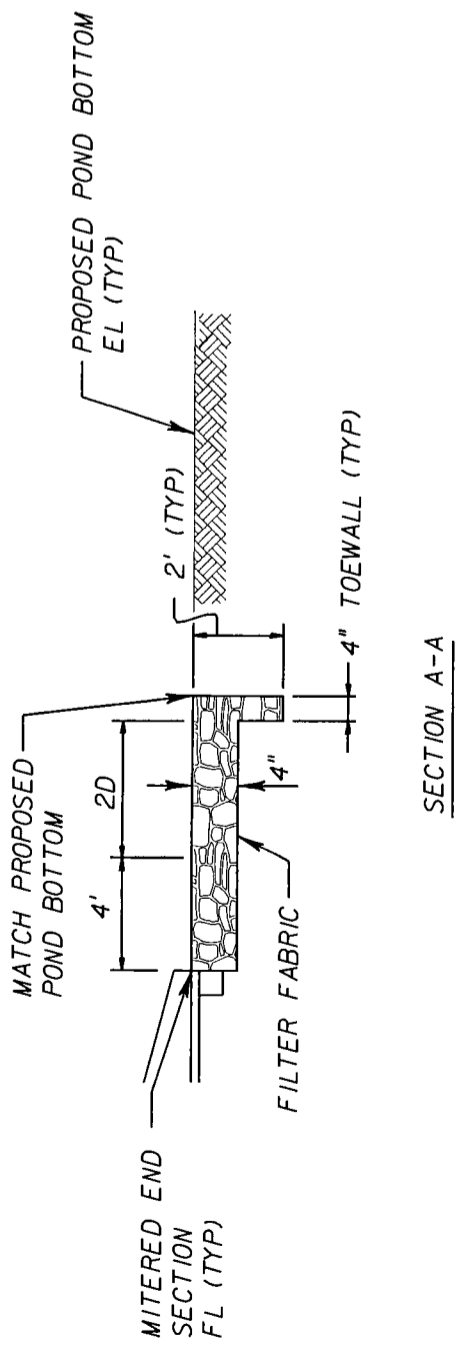
DATE	BY	REVISIONS DESCRIPTION

HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: KAREN M. VAN DEN AMENT, P.E.
FL. REGISTRATION NO. 44794

LAKE COUNTY
FLORIDA

SOUTH HANCOCK ROAD

POND 2 CROSS SECTIONS



***NOTES:**
 THE FILTER FABRIC SHALL BE TYPE D-2 WITH A MAXIMUM A.O.S OF 70 AND A MINIMUM PERMITTIVITY OF 0.2/SEC IN ACCORDANCE WITH INDEX 199 OF ROADWAY AND TRAFFIC DESIGN STANDARDS.

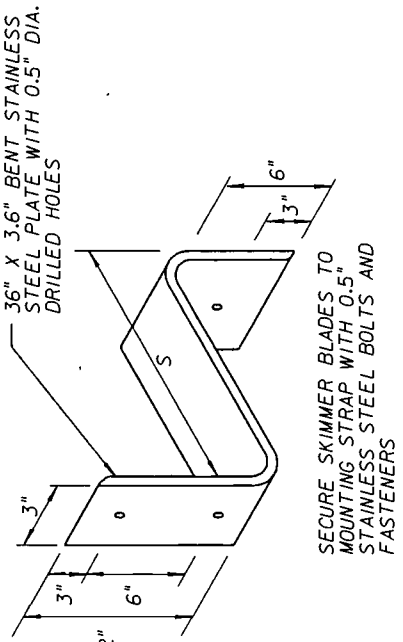
RECEIVED
 JUN 4 2008
 PDS
 ALTAMONTE SVC. CTR
 76466-2--

Handwritten signature and date:
 6/4/08

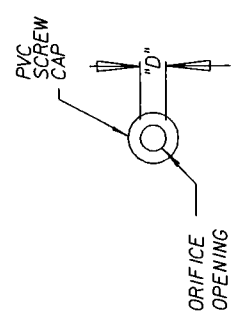
REVISIONS		DESCRIPTION	
DATE	BY		

HNTB HNTB CORPORATION 300 PRIMERA BLVD, SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794		LAKE COUNTY FLORIDA	SOUTH HANCOCK ROAD	DRAINAGE DETAILS	SHEET NO. 90
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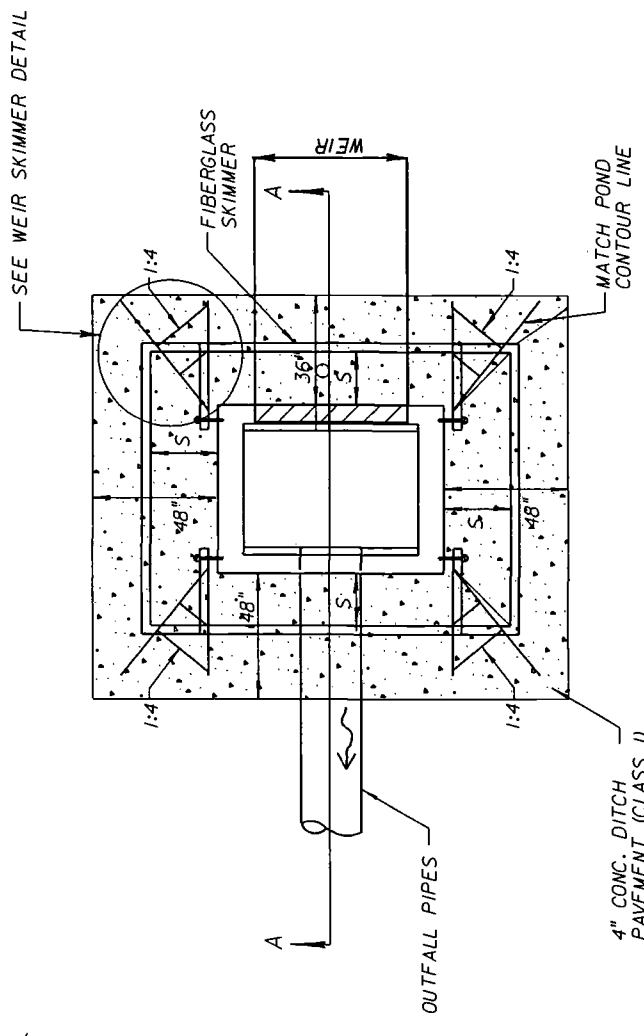
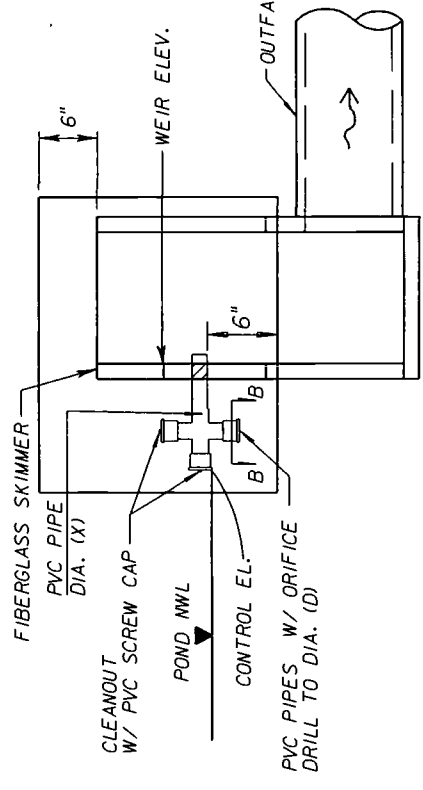
STRUCTURE NO.	POND NO.	CONTROL STRUCTURE		STRUCTURE TYPE	DIM. "S"	CONTROL ELEV.	GRATE ELEV.	WEIR ELEV.	WEIR WIDTH (IN)	TOP OF SKIMMER	BOTTOM OF SKIMMER	ORIFICE DIA. "D" (IN)	PVC PIPE DIA. (X) (IN)	PIPE DIA. (IN)	4" CLASS I CONC. (ST)	INVERT ELEV. (FT)
		STATION	OFFSET													
S-127	1	413+20.08	246.63 (RT)	DBI TYPE "C" MODIFIED	18"	98.1	100.40	99.4	30	100.9	97.6	3.75	6.00	18"	19.0	96.85
S-238	2	211+23.20	87.15 (LT)	DBI TYPE "C" MODIFIED	18"	NA	100.25	NA	NA	100.75	99.50	NA	NA	18"	12.9	96.00



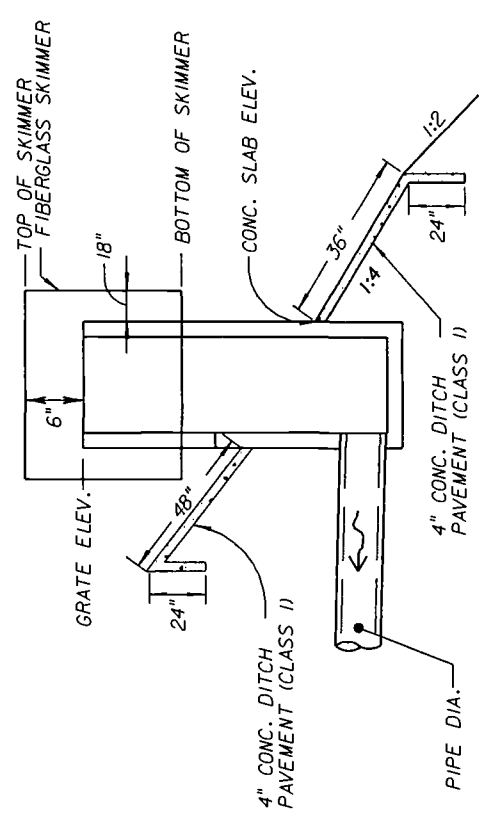
SECTION B-B
N.T.S.



MOUNTING STRAP
N.T.S.



SECTION A-A
N.T.S.



RECEIVED

JUN 4 2008

STRUCTURE DETAILS
PDS
ALTAMONTE SVC. CTR
764 66 - 2 - -

ORIFICE DETAIL
N.T.S.

HNTB
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794

LAKE COUNTY
FLORIDA

SOUTH HANCOCK
ROAD

DRAINAGE DETAILS

REVISIONS
DATE BY DESCRIPTION

SHEET NO. 91

John Van Den Avont
6/3/2008