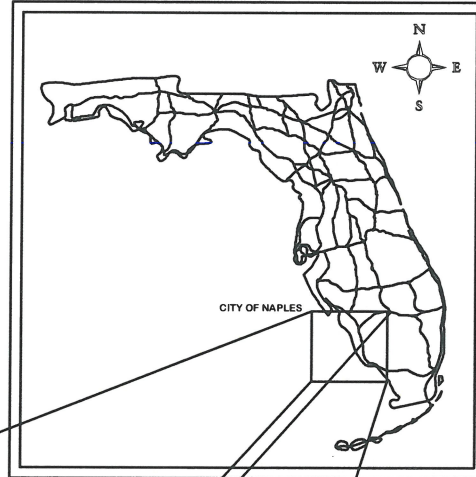


CONSTRUCTION DRAWINGS FOR HABITAT ISLAND AND CANAL DREDGE PROJECT (PORT ROYAL) CITY OF NAPLES, FLORIDA



PROJECT
LOCATION

LOCATION MAP

PREPARED FOR:
CITY OF NAPLES
735 EIGHT STREET SOUTH
NAPLES, FL 34102



ERICKSON CONSULTING ENGINEERS, INC.
7201 DELAINEY COURT
SARASOTA FL, 34240
941-373-6460

DRAWING INDEX

1	COVER
2	OVERALL SITE PLAN AND SHEET KEY
3	CONSTRUCTION ACCESS AND STAGING
4A	CUTLASS COVE PLAN VIEW
4B	CUTLASS COVE LONGITUDINAL CENTER LINE PROFILE
4C	CUTLASS COVE CROSS SECTIONS
5A	DOUBLOON BAY ENTRANCE PLAN VIEW
5B	DOUBLOON BAY ENTRANCE LONGITUDINAL CENTER LINE PROFILE
5C	DOUBLOON BAY ENTRANCE CROSS SECTIONS
6A	DOUBLOON BAY PLAN VIEW
6B	DOUBLOON BAY CROSS SECTIONS
7A	HARBOR HEAD PLAN VIEW
7B	HARBOR HEAD LONGITUDINAL CENTER LINE PROFILE
7C-7G	HARBOR HEAD CROSS SECTIONS
8A	GALLEON COVE PLAN VIEW
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9A	CHAMPNEY BAY EAST AND SOUTH PLAN VIEW
9B	CHAMPNEY BAY EAST AND SOUTH LONGITUDINAL CENTER LINE PROFILES
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9D-9E	CHAMPNEY BAY EAST CROSS SECTIONS
10A	CHAMPNEY BAY NORTH PLAN VIEW
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10C-10E	CHAMPNEY BAY NORTH CROSS SECTION
11A	HABITAT ISLAND PLAN VIEW
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11C-11H	HABITAT ISLAND CROSS SECTIONS
11I	HABITAT ISLAND PLANTING DETAILS
12	TURBIDITY CONTROL PLAN

ATTENTION IS DIRECTED TO THE FACT THAT THE SCALE OF THESE PLANS MAY HAVE BEEN CHANGED BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

APPROVED BY: KARYN M. ERICKSON, PE
FLORIDA REG. No. 41897

SIGNATURE: 
DATE: 1/17/13

Date: January 2013



NOTE:
1. AERIAL FLIGHT 2011
(CITY OF NAPLES)

LEGEND:
DREDGE AREA

Canal ID	Design Dredge Depth	Permitted Dredge Depth (1 ft over dredge)				Base Dredge Volume	Max Pay Dredge Volume
		ft NAVD	ft NAVD	ft MLW	ft MLLW		
Cutlass Cove	-9.3	-10.3	-8.6	-8.0	2,815	3,275	
Doubleloon Bay Entrance	-11.3	-12.3	-10.6	-10.0	1,520	1,790	
Harbor Head	-9.3	-10.3	-8.6	-8.0	3,520	4,325	
Harbor Head	-8.3	-9.3	-7.6	-7.0			
Galleon Cove	-10.3	-11.3	-9.6	-9.0	5,045	6,195	
Doubleloon Bay	-9.3	-10.3	-8.6	-8.0	5,060	6,160	
Champney Bay	-9.0	-9.3	-7.6	-7.0			
Total					17,960	21,745	

Notes: (1) Tidal datum based upon Naples - Gulf of Mexico (No. 872-5110) tide station. (2) Max pay dredge volumes include 4 inch over dredge.



SHEET KEY
SCALE: 1" = 800'

Karen M. Erickson
KARIN M. ERICKSON, P.E.
Professional Engineer # 41897

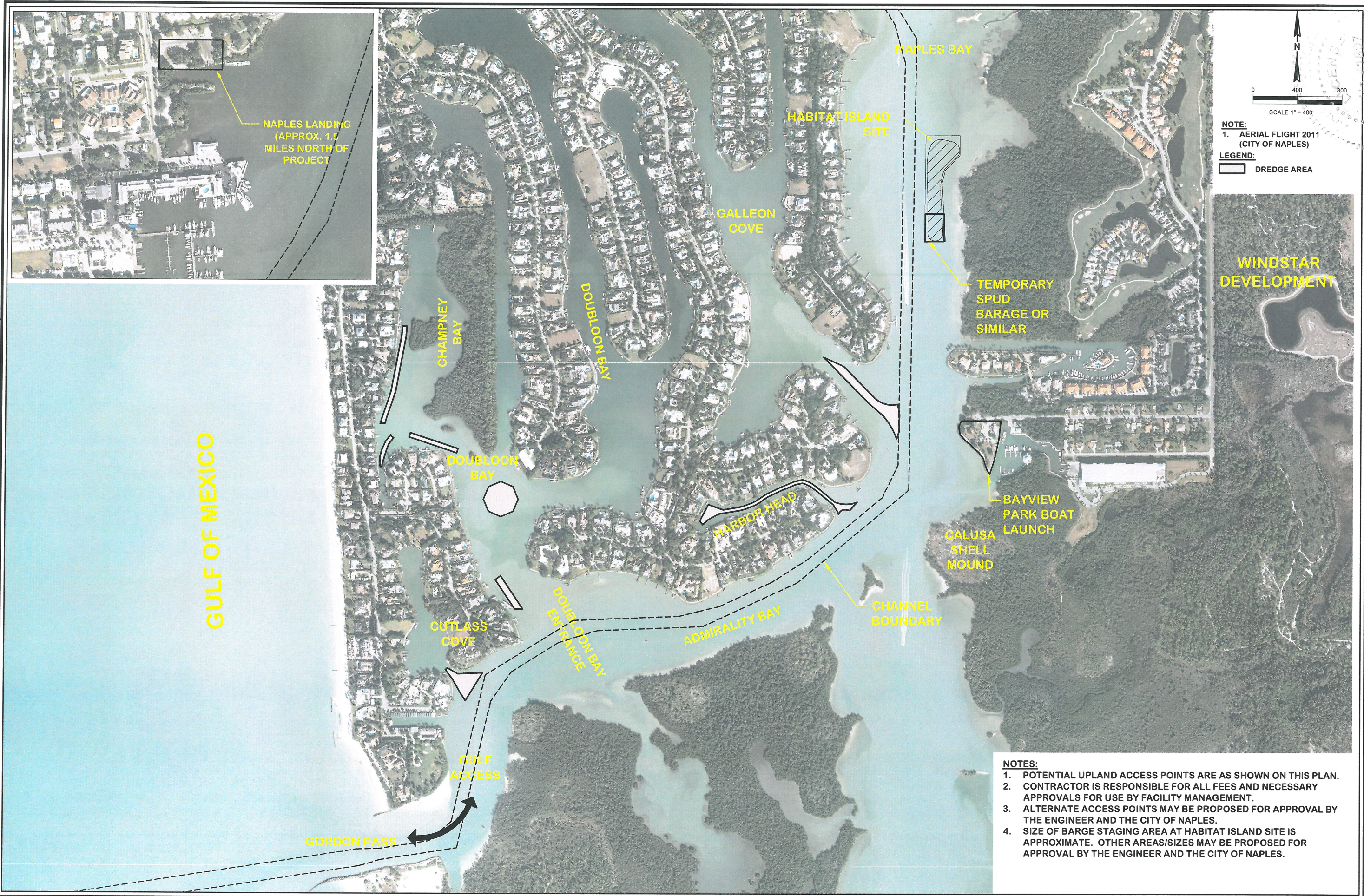
REV. NO.	DATE	BY	CHKD BY	REMARKS

DESIGNED BY: BC	CHECKED BY: TD	DATE: 12/26/2012	JOB NO.: 12-227	SCALE: AS NOTED
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PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**OVERALL SITE PLAN
AND SHEET KEY**

Erickson Consulting Engineers, Inc.
ECE
7201 Delaney Court
Sarasota, FL 34240
(941) 373-6460

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NOTE:
1. AERIAL FLIGHT 2011
(CITY OF NAPLES)

LEGEND:
[Hatched Box] DREDGE AREA

- NOTES:**
- POTENTIAL UPLAND ACCESS POINTS ARE AS SHOWN ON THIS PLAN.
 - CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND NECESSARY APPROVALS FOR USE BY FACILITY MANAGEMENT.
 - ALTERNATE ACCESS POINTS MAY BE PROPOSED FOR APPROVAL BY THE ENGINEER AND THE CITY OF NAPLES.
 - SIZE OF BARGE STAGING AREA AT HABITAT ISLAND SITE IS APPROXIMATE. OTHER AREAS/SIZES MAY BE PROPOSED FOR APPROVAL BY THE ENGINEER AND THE CITY OF NAPLES.

Signature: [Signature]
Date: 1/17/13
Professional Engineer # 41897

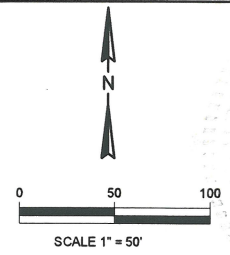
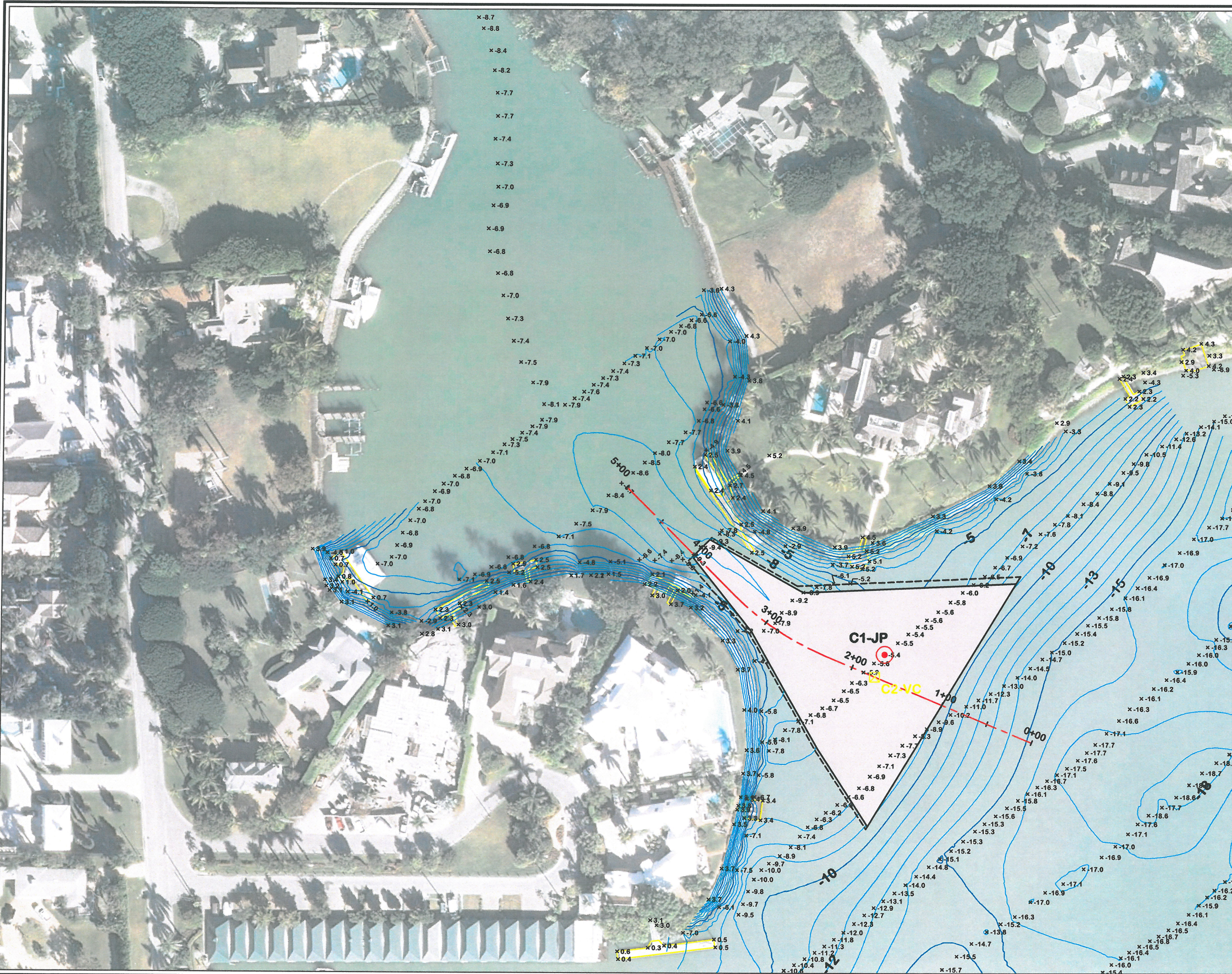
REV. NO.	DATE	BY	DESCRIPTION

DESIGNED BY	CHECKED BY
DAVID 12/28/2012	
JOB NO. 12-227	
SOUND AS NOTED	

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**CONSTRUCTION ACCESS
AND STAGING**

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

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- LEGEND:**
- DREDGE AREA
 - SEAGRASS AREA
 - BASELINE
 - 2+00 STATIONS
 - x1.5 SPOT ELEVATION
 - CONTOURS
 - DOCK OR BOAT HOUSE
 - JET PROBE (B1-JP)
 - VIBRACORE (C2-VC)

**BASELINE STATION
COORDINATE TABLE**

STA	NORTHING	EASTING
0+00	641559'	394220'
1+00	641597'	394128'
2+00	641636'	394036'
2+88	641670'	393955'
3+00	641682'	393947'
4+00	641750'	393874'
5+00	641820'	393803'

- NOTES:**
1. HORIZONTAL COORDINATE SYSTEM IS BASED ON FLORIDA STATE PLANE, EAST ZONE, NAD 83.
 2. PRE-CONSTRUCTION HYDROGRAPHIC SURVEY BY HYATT SURVEY, MARCH 2012, NAVD 88
 3. JET PROBES (APRIL 2012), VIBRACORES (AUGUST 2012) & BIOLOGICAL SURVEY (APRIL 2012) BY ECE.
 4. AERIAL FLIGHT 2011 (CITY OF NAPLES)

1/17/13
 MARY W. ERICKSON, P.E.
 Professional Engineer # 41987

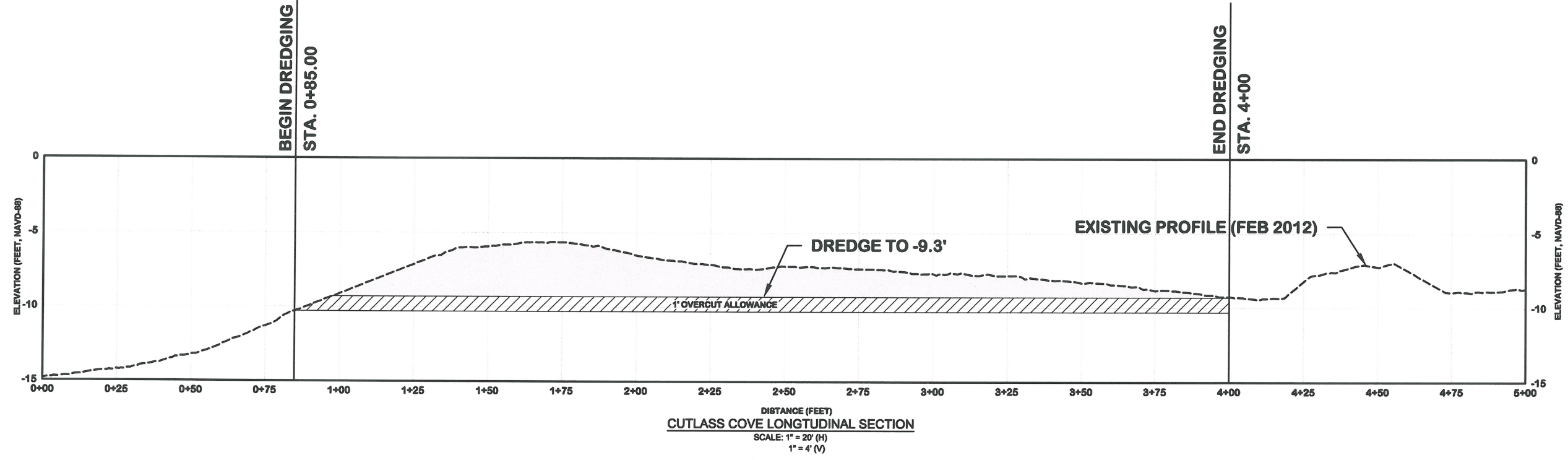
REV.	DATE	BY	REVISIONS

DESIGNED	DRAWN	CHECKED	DATE	JOB NO.	SCALE
BC	TD	CP	12/28/2012	12-227	AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
**DREDGE AREA - PLAN VIEW
 CUTLASS COVE**

Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
4A
 SHEET 4 OF 43



LEGEND:

	DREDGE AREA
	1 FT. OVERCUT ALLOWANCE
	EXISTING BOTTOM



Karyn M. Erickson
 KARYN M. ERICKSON, P.E.
 Professional Engineer # 41987

REV. NO.	DATE	BY	CHKD BY	REMARKS

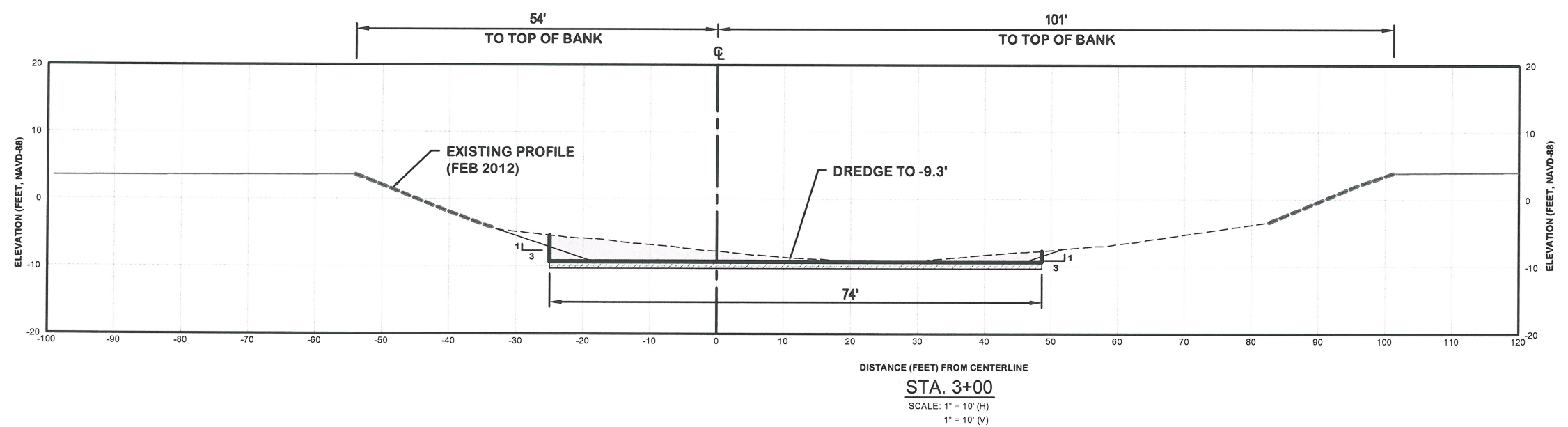
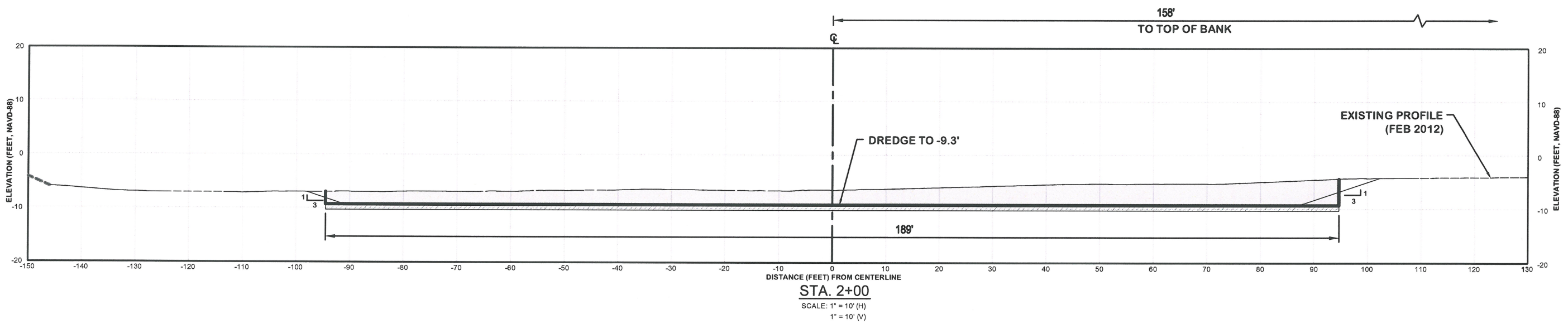
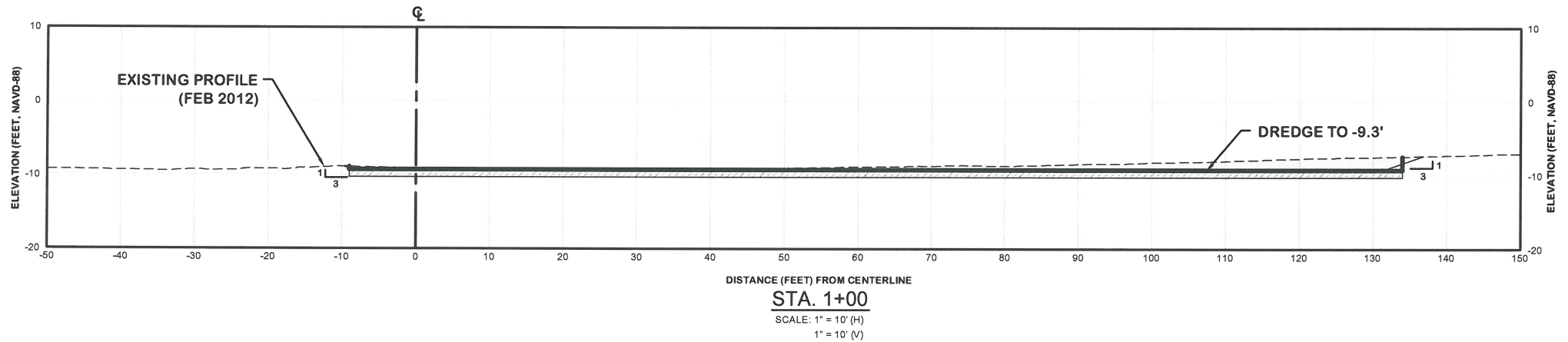
DESIGNED BY	CHKD BY
DATE: 12/28/2012	JOB NO. 12-227
SCALE: AS NOTED	

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA

**LONGITUDINAL CENTER LINE PROFILE
 CUTLASS COVE**

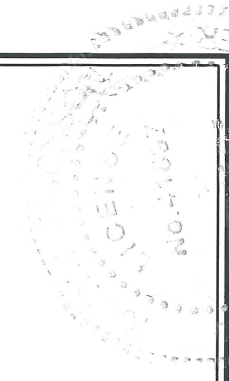
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
4B
 SHEET 5 OF 43



LEGEND:

- DREDGE AREA
- 1' OVERCUT ALLOWANCE
- EXISTING BOTTOM
- REVETMENT
- UPLAND
- BOX CUT
- DESIGN SLOPE



Mary M. Erickson
Signature
MARY M. ERICKSON, P.E.
Professional Engineer # 41897
Date

REV. NO.	DATE	BY	CHKD. BY	REMARKS

DESIGNED BY	DRAWN BY	CHECKED BY	CP

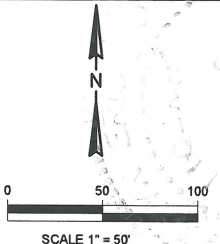
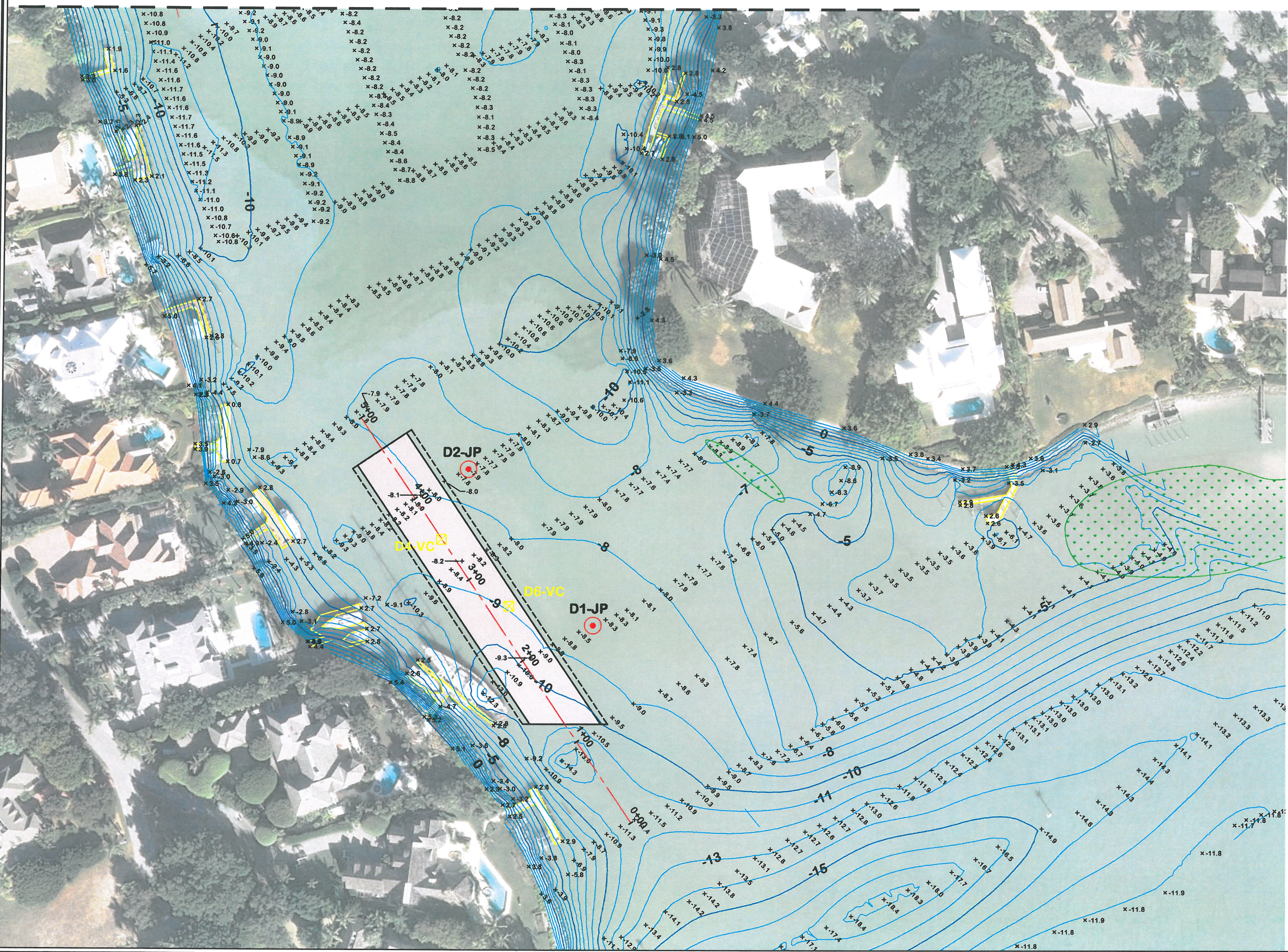
DATE: 12/28/2012
JOB NO.: 12-227
SCALE: AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**CROSS SECTIONS
CUTLASS COVE**

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

Z:\CADD_Graphics\US Projects\12-227_Naples - Port Royal Canals\Construction\5-6_Doubloon Bay.dwg Jan 17, 2013-11:50am

MATCH LINE - SEE SHEET 6A



LEGEND:

- DREDGE AREA
- SEAGRASS AREA
- BASELINE
- 2+00 STATIONS
- SPOT ELEVATION
- 5 CONTOURS
- DOCK OR BOAT HOUSE
- JET PROBE (B1-JP)
- VIBRACORE (C2-VC)

**BASELINE STATION
COORDINATE TABLE**

STA	NORTHING	EASTING
0+00	642190'	394592'
1+00	642273'	394537'
2+00	642356'	394481'
3+00	642439'	394425'
4+00	642521'	394369'
5+00	642604'	394313'

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS BASED ON FLORIDA STATE PLANE, EAST ZONE, NAD 83.
2. PRE-CONSTRUCTION HYDROGRAPHIC SURVEY BY HYATT SURVEY, MARCH 2012, NAVD 88
3. JET PROBES (APRIL 2012), VIBRACORES (AUGUST 2012) & BIOLOGICAL SURVEY (APRIL 2012) BY ECE.
4. AERIAL FLIGHT 2011 (CITY OF NAPLES)

KAREN M. ERICKSON, P.E.
 Professional Engineer # 41187

REV. NO.	DATE	BY	REMARKS

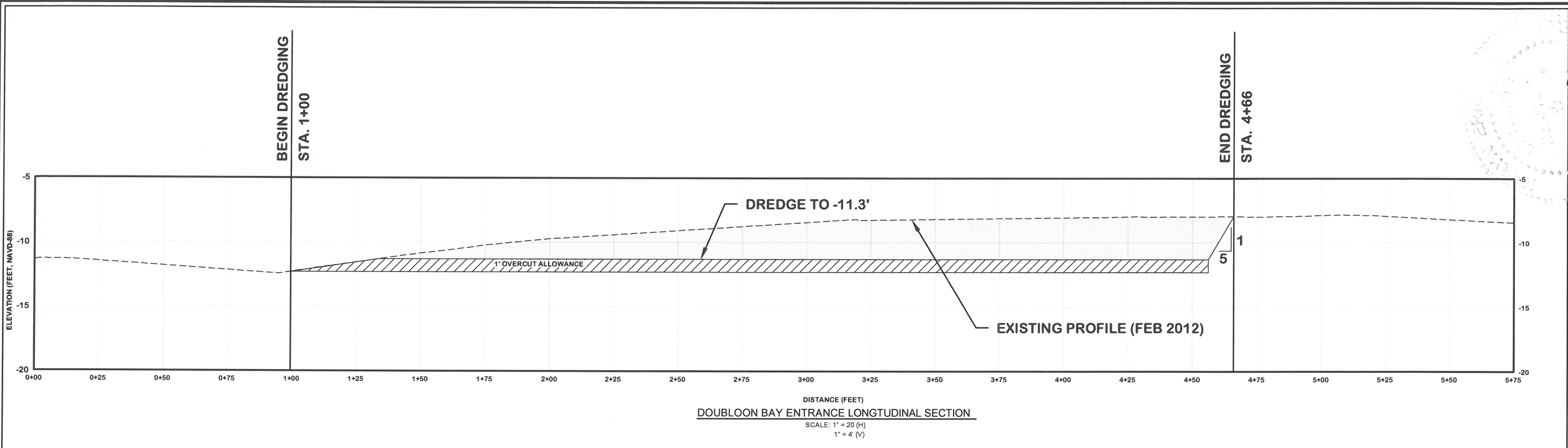
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BC	TD	CP	12/26/2012	AS NOTED
			JOB NO. 12-227	

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
DREDGE AREA - PLAN VIEW
 DOUBLOON BAY ENTRANCE




Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 34220


 (941) 373-6460

DRAWING NUMBER
5A
 SHEET 7 OF 43



LEGEND:

	DREDGE AREA
	1 FT. OVERCUT ALLOWANCE
	EXISTING BOTTOM


 Date: 1/17/13
 Signature: *[Signature]*
 NARYN M. BRIDGEMAN, P.E.
 Professional Engineer # 41897

REV. NO.	DATE	ISSUED BY	CHD BY	REMARKS

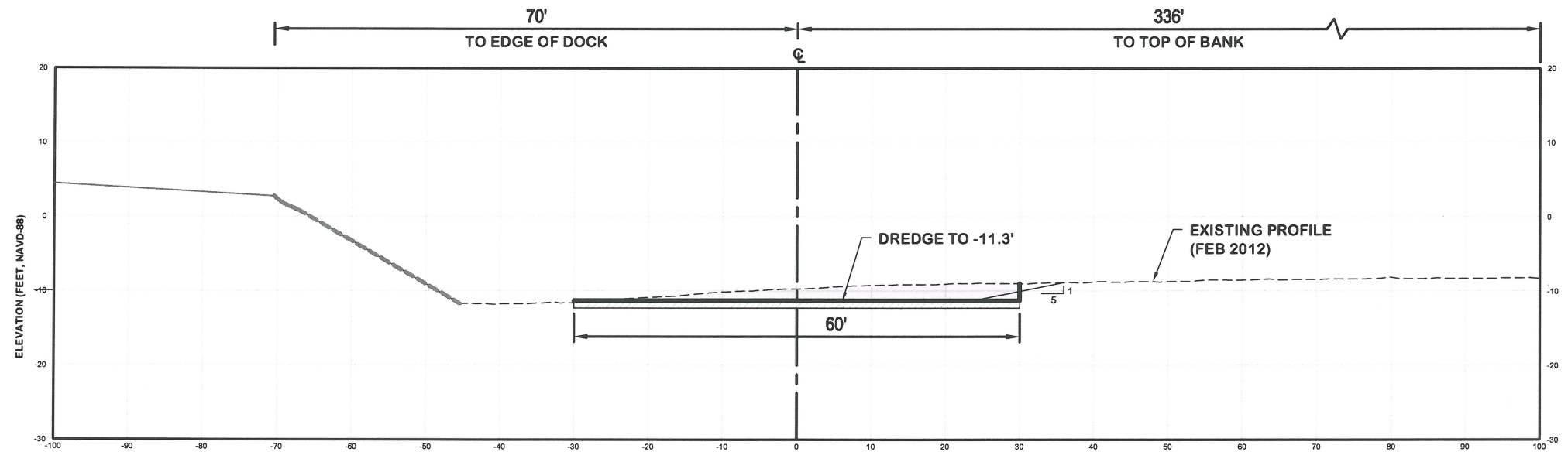
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DATE	12/28/2012		
JOB NO.	12-227		
SCALE	AS NOTED		

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
LONGTUDINAL CENTER LINE PROFILE
DOUBLOON BAY ENTRANCE

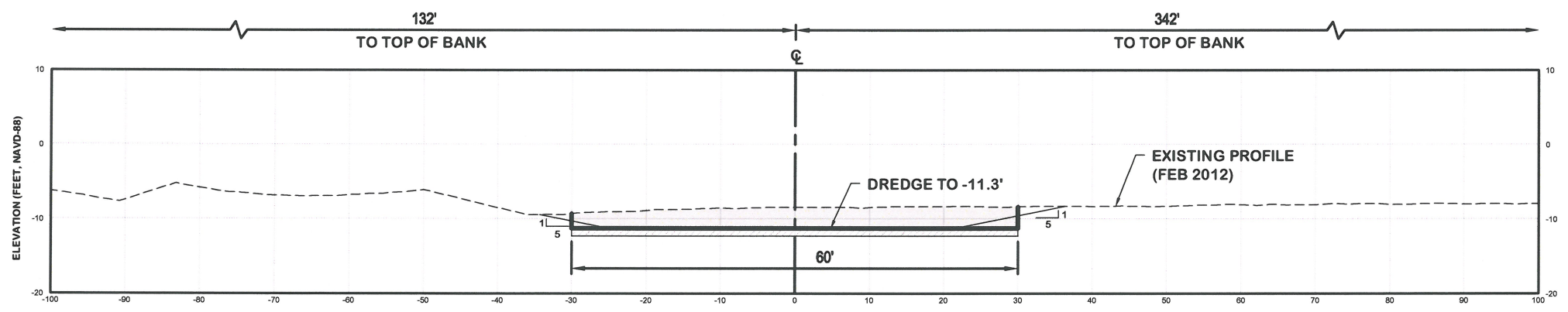
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460


DRAWING NUMBER
5B
 SHEET 8 OF 43

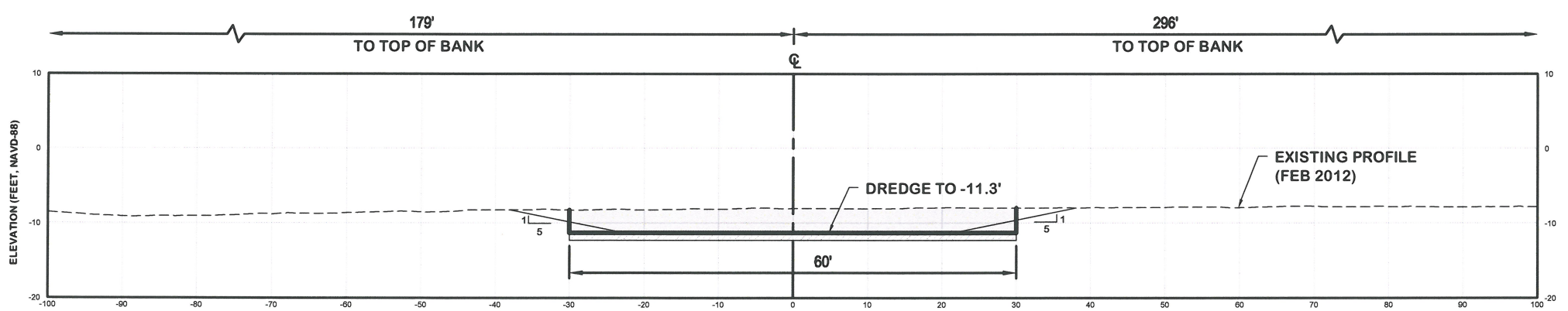
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DISTANCE (FEET) FROM CENTERLINE
STA. 2+00
 SCALE: 1" = 10' (H)
 1" = 10' (V)



DISTANCE (FEET) FROM CENTERLINE
STA. 3+00
 SCALE: 1" = 10' (H)
 1" = 10' (V)



DISTANCE (FEET) FROM CENTERLINE
STA. 4+00
 SCALE: 1" = 10' (H)
 1" = 10' (V)

LEGEND:

- DREDGE AREA
- 1' OVERCUT ALLOWANCE
- EXISTING BOTTOM
- REVETMENT
- UPLAND
- BOX CUT
- DESIGN SLOPE



Signature: *Kevin M. Erickson*
 Kevin M. ERICKSON, P.E.
 Professional Engineer # 41887

REV. NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY

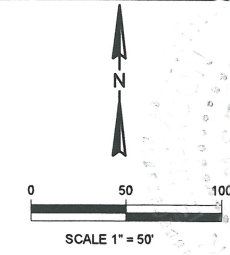
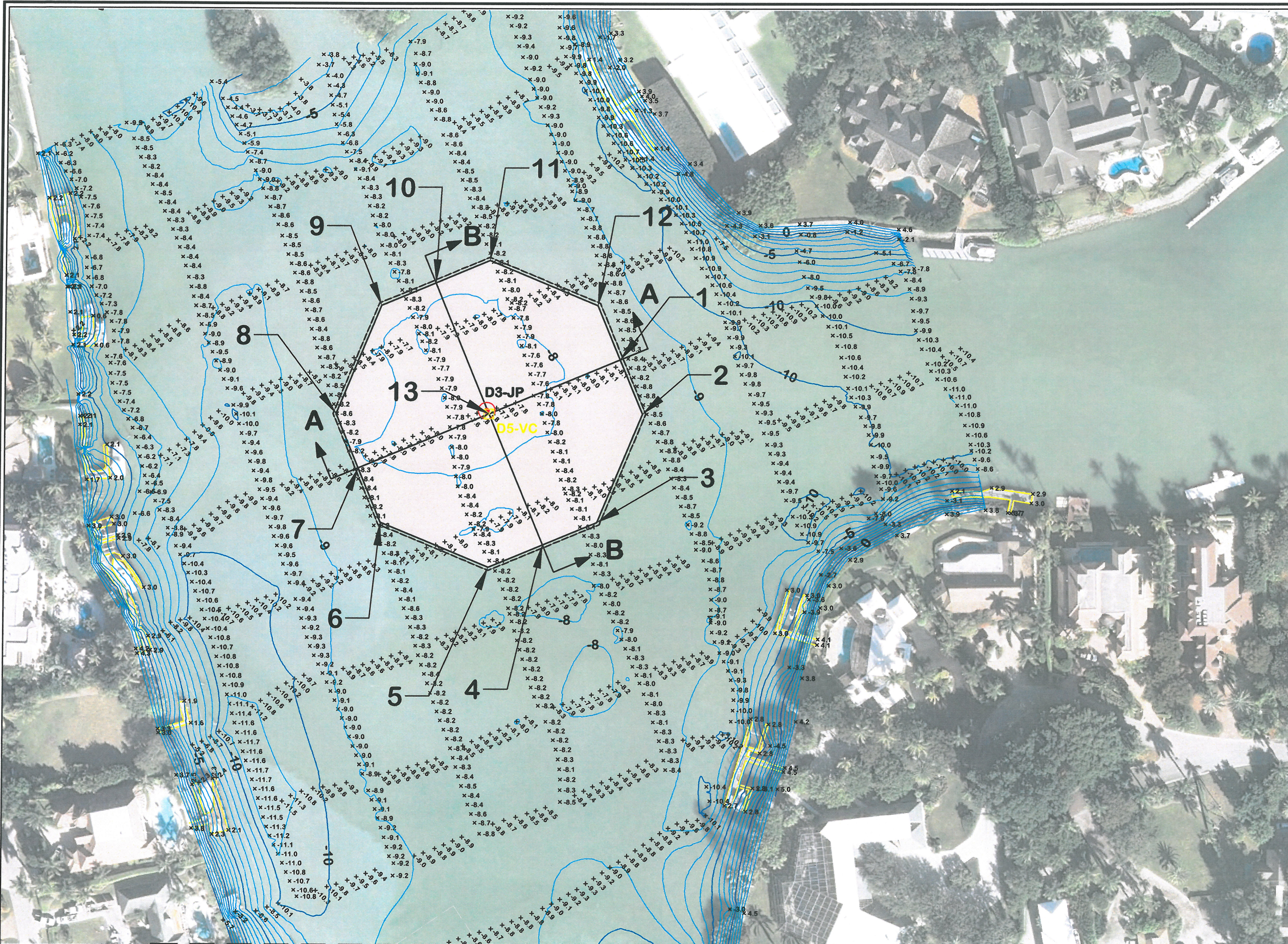
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DATE: 12/28/2012	JOB NO. 12-227
SCALE: AS NOTED	

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
CROSS SECTIONS
DOUBLON BAY ENTRANCE

Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
5C
 SHEET 9 OF 43

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LEGEND:

- DREDGE AREA
- SEAGRASS AREA
- BASELINE
- 2+00 STATIONS
- x 7.8 SPOT ELEVATION
- CONTOURS
- DOCK OR BOAT HOUSE
- JET PROBE (B1-JP)
- VIBRACORE (C2-VC)

**DREDGE AREA
COORDINATE TABLE**

POINT	NORTHING	EASTING
1	643331'	394490'
2	643275'	394513'
3	643165'	394467'
4	643142'	394412'
5	643119'	394357'
6	643165'	394246'
7	643223'	394223'
8	643275'	394201'
9	643386'	394246'
10	643409'	394301'
11	643431'	394357'
12	643386'	394467'
13	643275'	394357'

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS BASED ON FLORIDA STATE PLANE, EAST ZONE, NAD 83.
2. PRE-CONSTRUCTION HYDROGRAPHIC SURVEY BY HYATT SURVEY, MARCH 2012, NAVD 88
3. JET PROBES (APRIL 2012), VIBRACORES (AUGUST 2012) & BIOLOGICAL SURVEY (APRIL 2012) BY ECE.
4. AERIAL FLIGHT 2011 (CITY OF NAPLES)

KARIN M. ERICKSON, P.E.
 Professional Engineer # 41817

REV.	DATE	BY	CHKD.	REMARKS

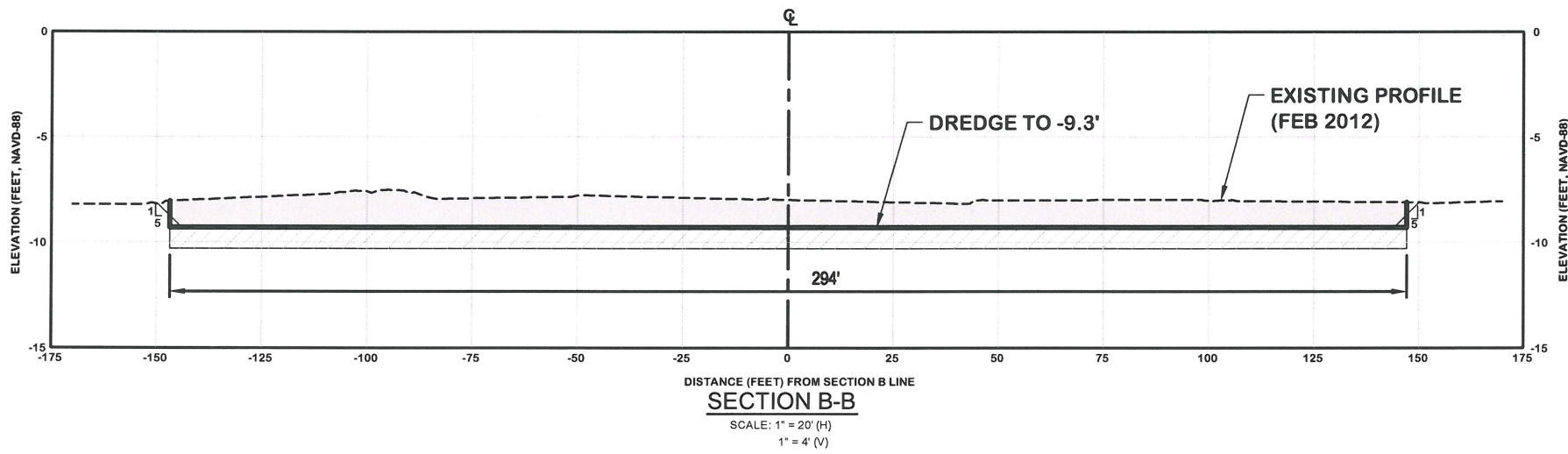
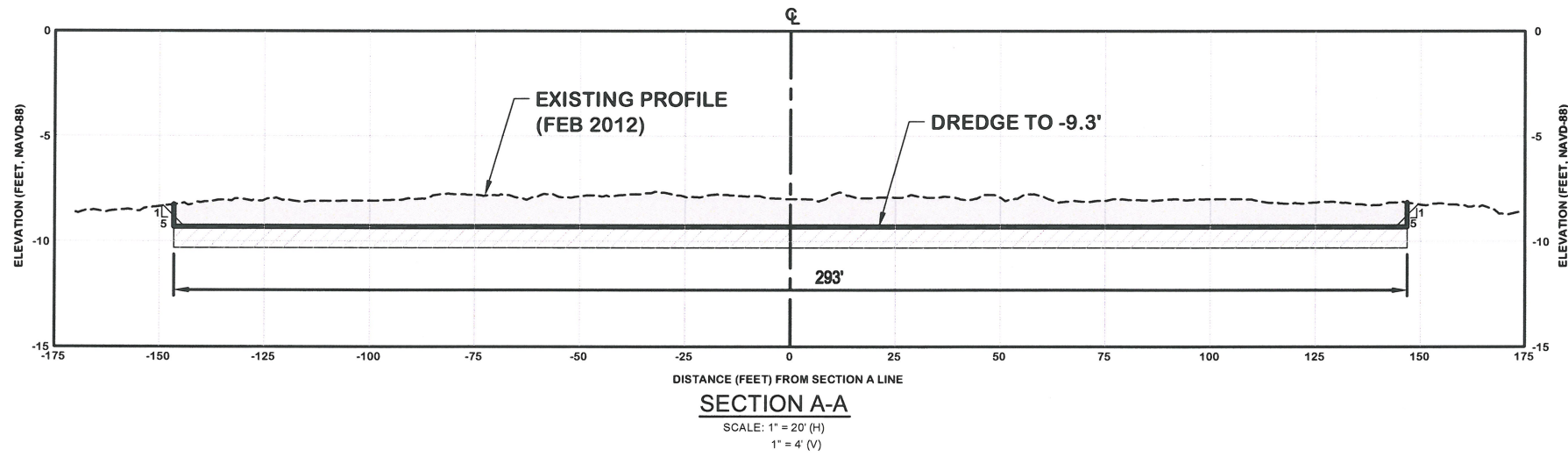
DESIGNED	DRAWN	CHECKED	DATE	SCALE

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
DREDGE AREA - PLAN VIEW
 DOUBLOON BAY








Erickson Consulting Engineers, Inc.

 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
6A
 SHEET 10 OF 43



LEGEND:

	DREDGE AREA
	1' OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVETMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



Mark M. Erickson
Mark M. Erickson, P.E.
Professional Engineer # 12282

DESIGNED BY	DATE	CHECKED BY	DATE

REVISIONS

NO.	DATE	BY	DESCRIPTION

DATE: 12/28/2012
JOB NO.: 12-227
SCALE: AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
DOUBLON BAY

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

ECE
Erickson Consulting Engineers

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BASELINE STATION COORDINATE TABLE

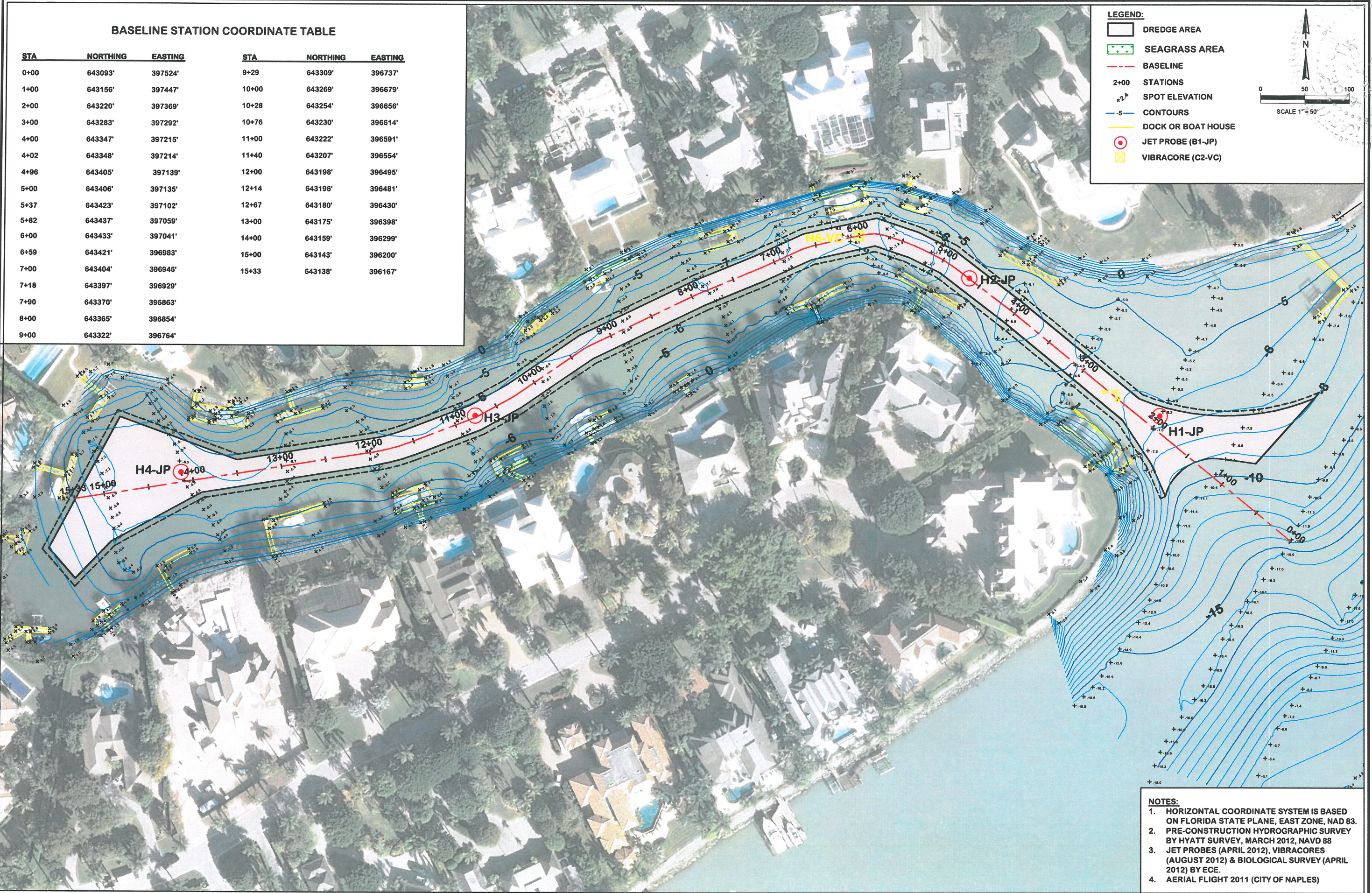
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1+00	643156'	397447'	10+00	643269'	396679'
2+00	643220'	397369'	10+28	643254'	396656'
3+00	643283'	397292'	10+76	643230'	396614'
4+00	643347'	397215'	11+00	643222'	396591'
4+02	643348'	397214'	11+40	643207'	396554'
4+96	643405'	397139'	12+00	643198'	396495'
5+00	643406'	397135'	12+14	643196'	396481'
5+37	643423'	397102'	12+67	643180'	396430'
5+82	643437'	397059'	13+00	643175'	396398'
6+00	643433'	397041'	14+00	643159'	396299'
6+59	643421'	396983'	15+00	643143'	396200'
7+00	643404'	396946'	15+33	643138'	396167'
7+18	643397'	396929'			
7+90	643370'	396863'			
8+00	643365'	396854'			
9+00	643322'	396764'			

LEGEND:

- DREDGE AREA
- SEAGRASS AREA
- BASELINE
- 2+00 STATIONS
- ± SPOT ELEVATION
- CONTOURS
- DOCK OR BOAT HOUSE
- JET PROBE (B1-JP)
- VIBRACORE (C2-VC)

N

SCALE 1" = 50'



KARYN N. ERICKSON, P.E.
 Professional Engineer # 41897

REV. No.	DATE	BY	REMARKS

DESIGNED BY	CHECKED BY	DATE	SCALE
BIC	TD	12/29/2012	AS NOTED
JOB NO.	12-227		

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
DREDGE AREA - PLAN VIEW
 HARBOR HEAD

Erickson Consulting Engineers, Inc.

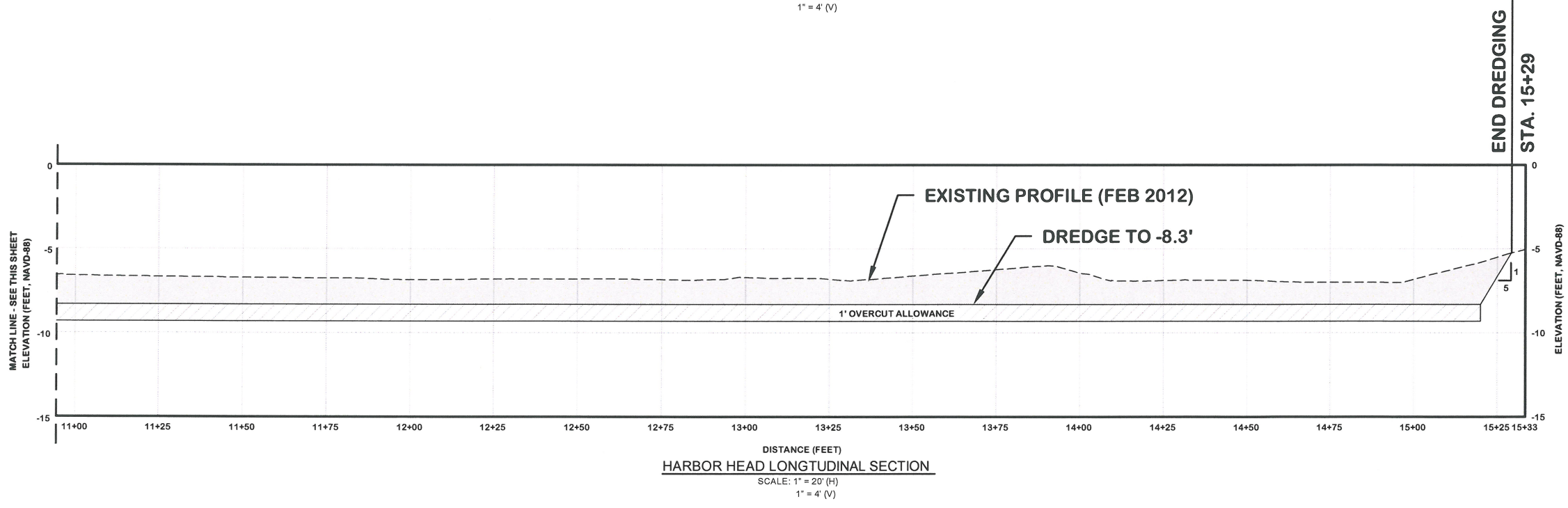
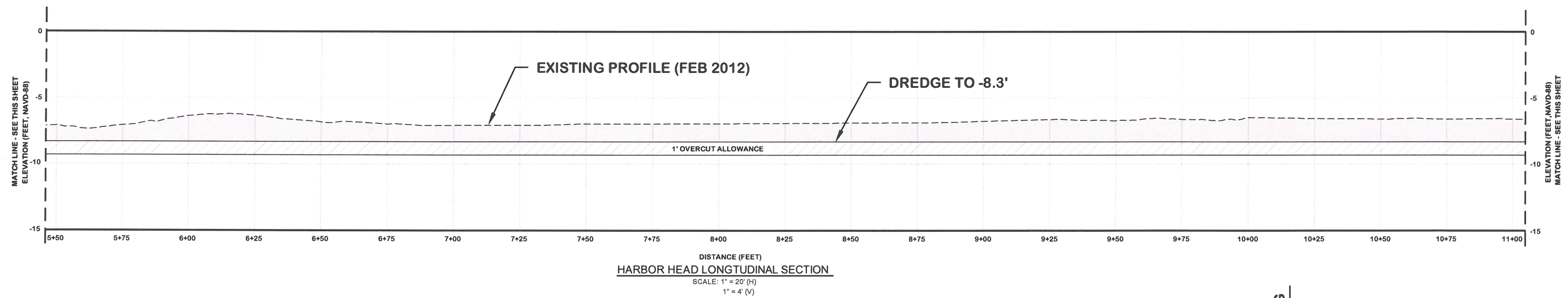
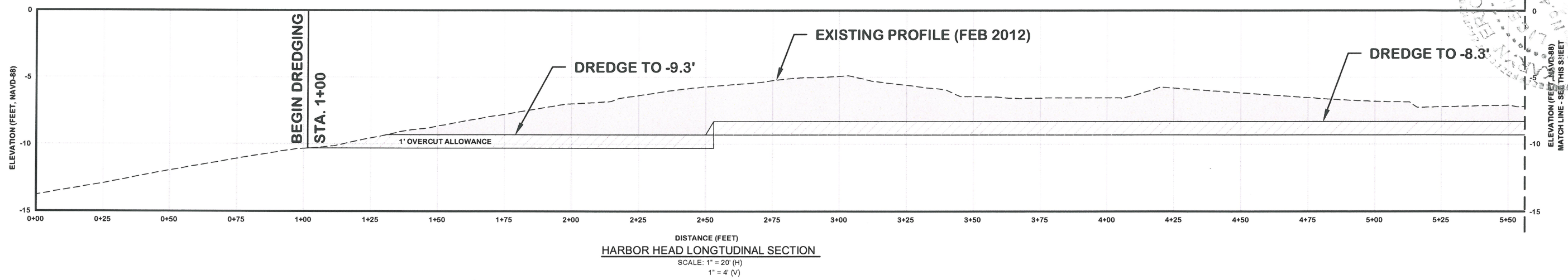
7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

ECE

DRAWING NUMBER
7A
SHEET 12 OF 43

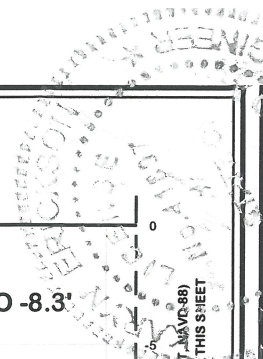
- NOTES:**
1. HORIZONTAL COORDINATE SYSTEM IS BASED ON FLORIDA STATE PLANE, EAST ZONE, NAD 83.
 2. PRE-CONSTRUCTION HYDROGRAPHIC SURVEY BY HYATT SURVEY, MARCH 2012, NAVD 88
 3. JET PROBES (APRIL 2012), VIBRACORES (AUGUST 2012) & BIOLOGICAL SURVEY (APRIL 2012) BY ECE.
 4. AERIAL FLIGHT 2011 (CITY OF NAPLES)

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LEGEND:

- DREDGE AREA
- 1 FT. OVERCUT ALLOWANCE
- EXISTING BOTTOM



Mary M. Erickson
 Date: 1/16/13
 MARY M. ERICKSON, P.E.
 Professional Engineer # 41897

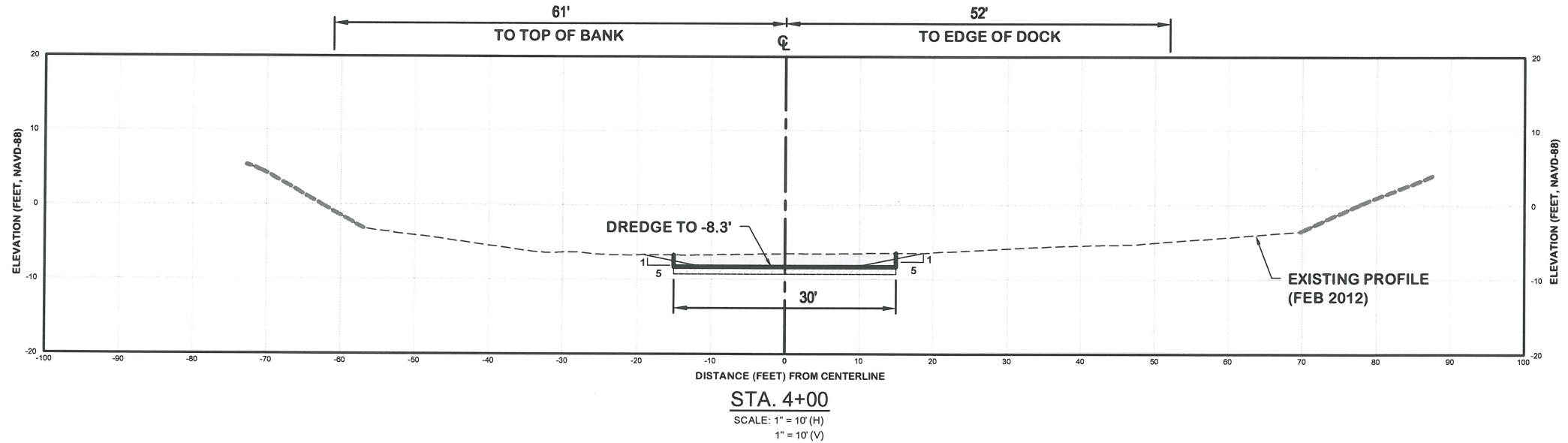
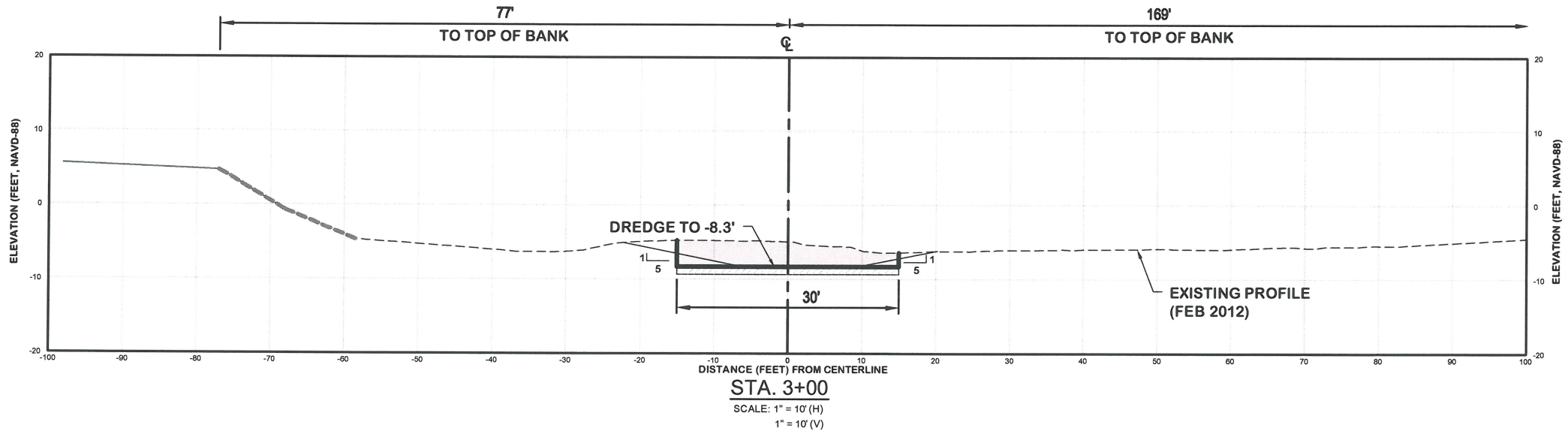
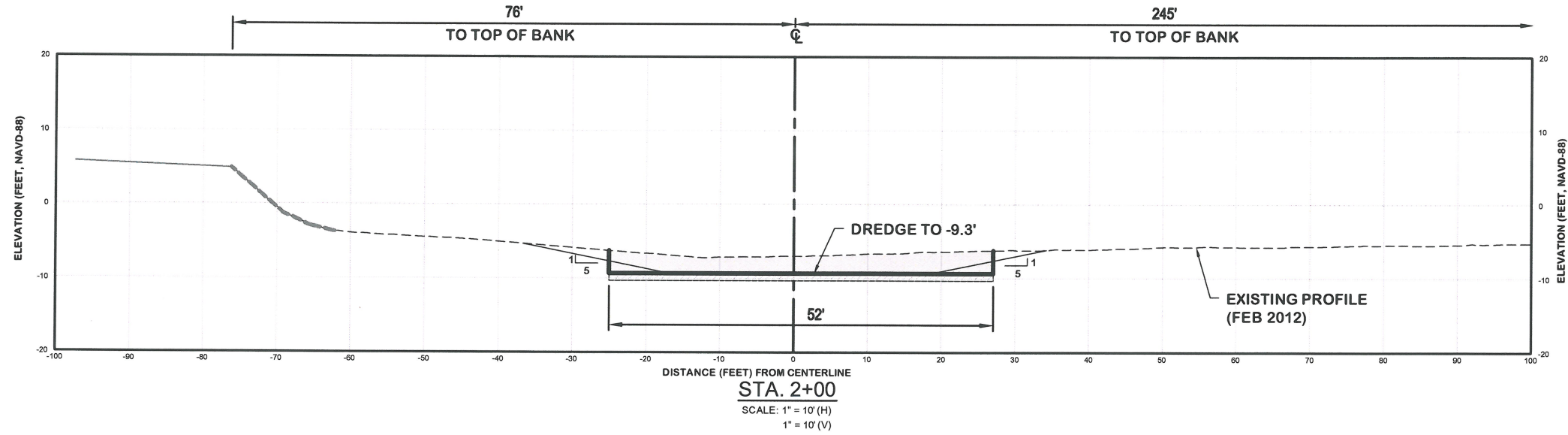
REV. NO.	DATE	BY	CHKD BY	REMARKS

DESIGNED BY	DRWN BY	CHECKED BY
DATE: 12/26/2012	DATE: 12/27	SCALE: AS NOTED
JOB NO. 12-227		

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
LONGTUDINAL CENTER LINE PROFILE
 HARBOR HEAD

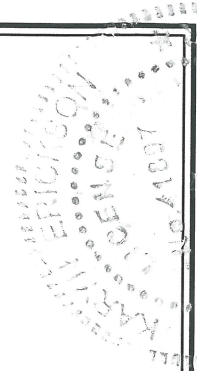
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
7B
 SHEET 13 OF 43



LEGEND:

	DREDGE AREA
	1' OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVTMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



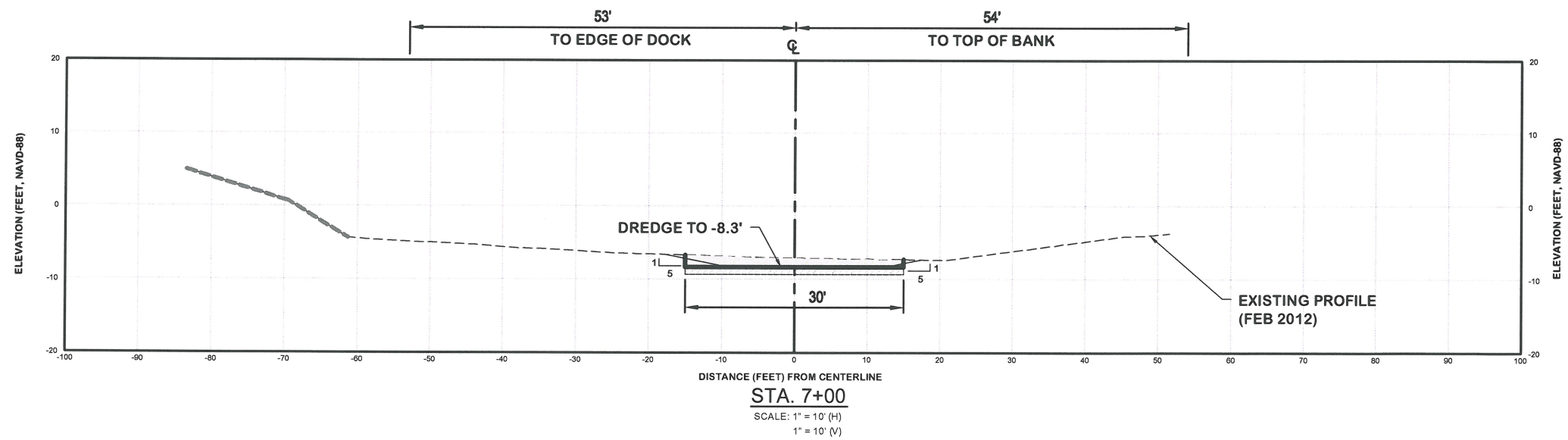
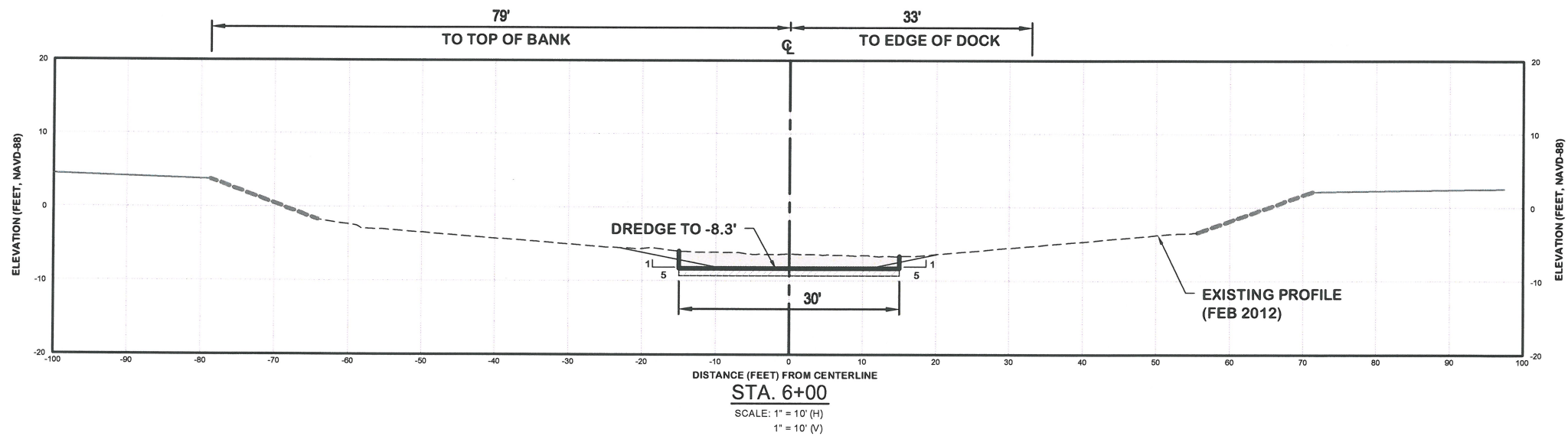
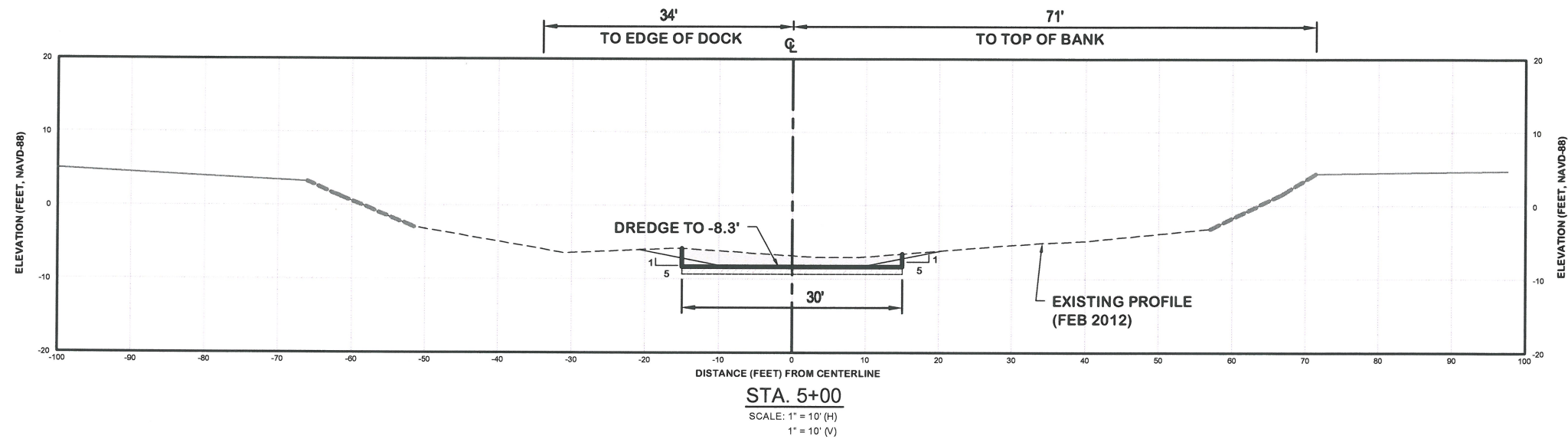
Karen Erickson
KAREN M. ERICKSON, P.E.
Professional Engineer # 11007

REV. NO.	DATE	BY	REMARKS








DESIGNED BY	DRWN TO	CHECKED BY
DATE: 12/26/2012	JOB NO. 12-227	SCALE: AS NOTED

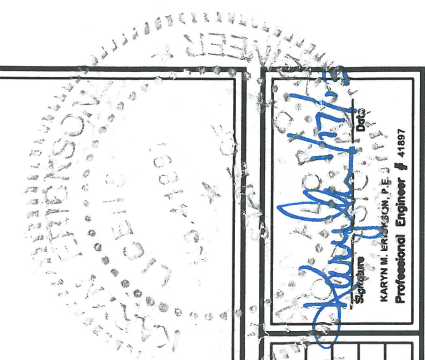
PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
HARBOR HEAD

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460



LEGEND:

	DREDGE AREA
	1' OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVTMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



Karyn Erickson
Signature
KARYN M. ERICKSON, P.E.
Professional Engineer # 41897

REV. No.	DATE	BY	DESCRIPTION

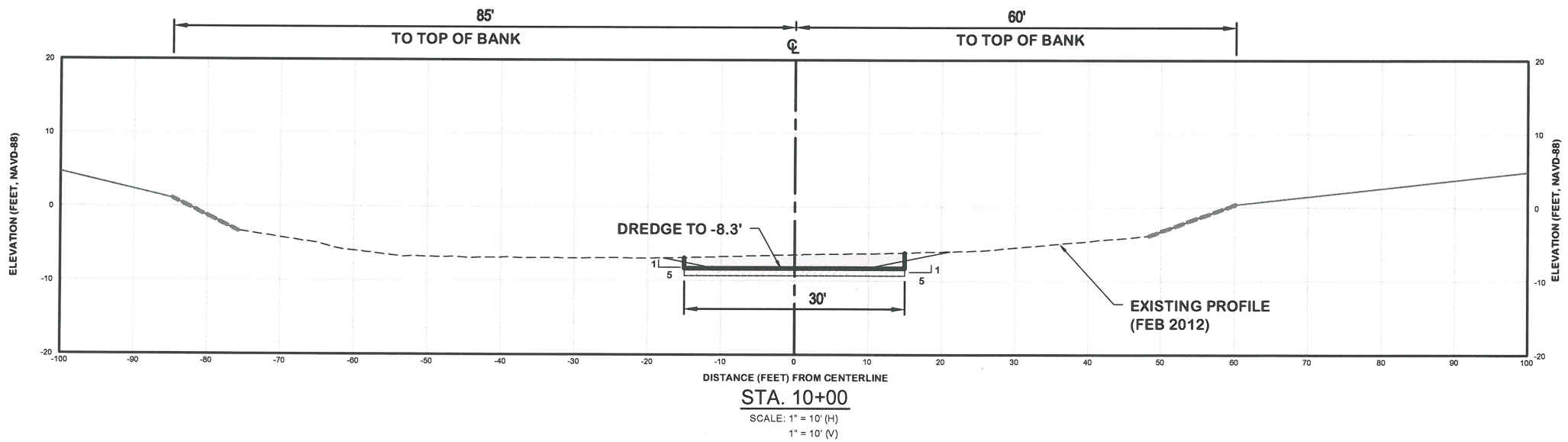
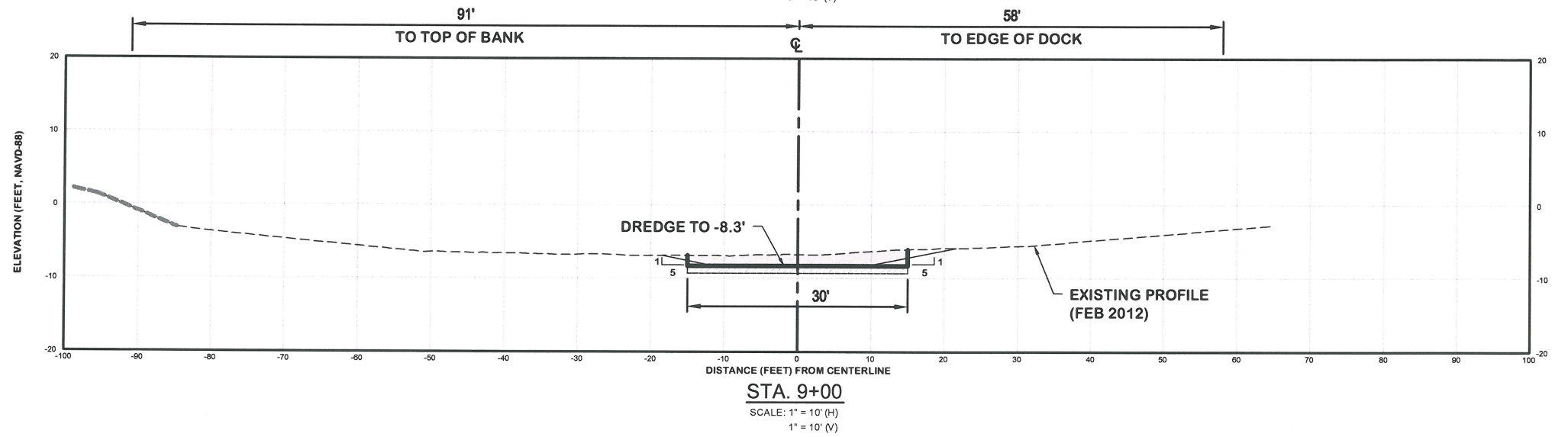
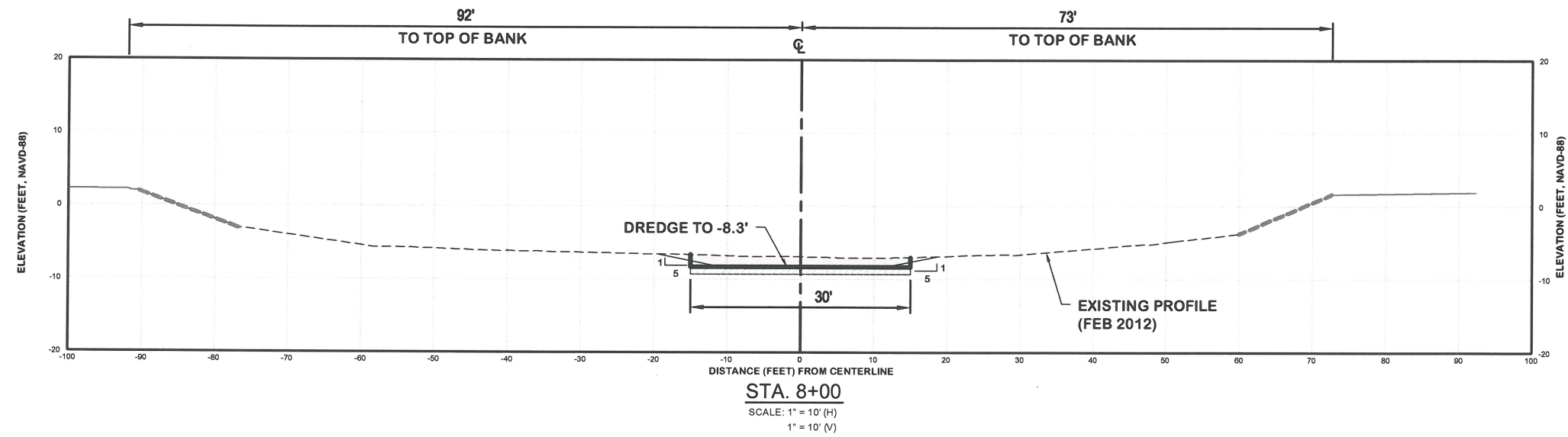
DESIGNED BY	DATE	JOB NO.	SCALE
	12/26/2012	12-227	AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
HARBOR HEAD








Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460



DRAWING NUMBER
7D
SHEET 15 OF 43



LEGEND:

	DREDGE AREA
	1' OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVTMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



Karyn Erickson
Date: 1/17/13
KARYN M. ERICKSON, P.E.
Professional Engineer # 41897

REVISIONS	NO.	DATE	BY	DESCRIPTION

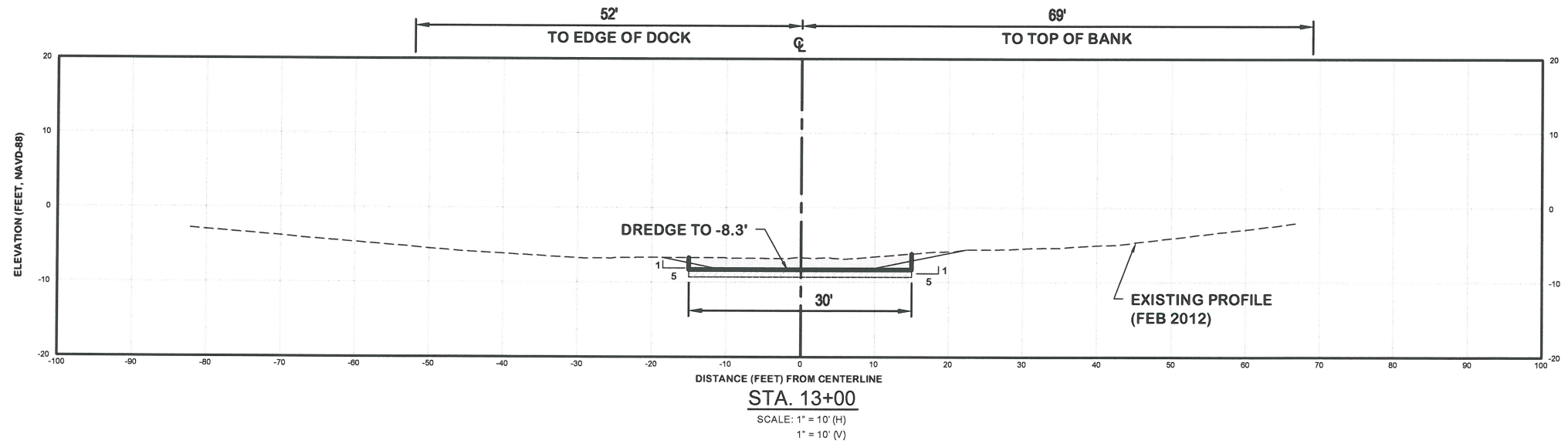
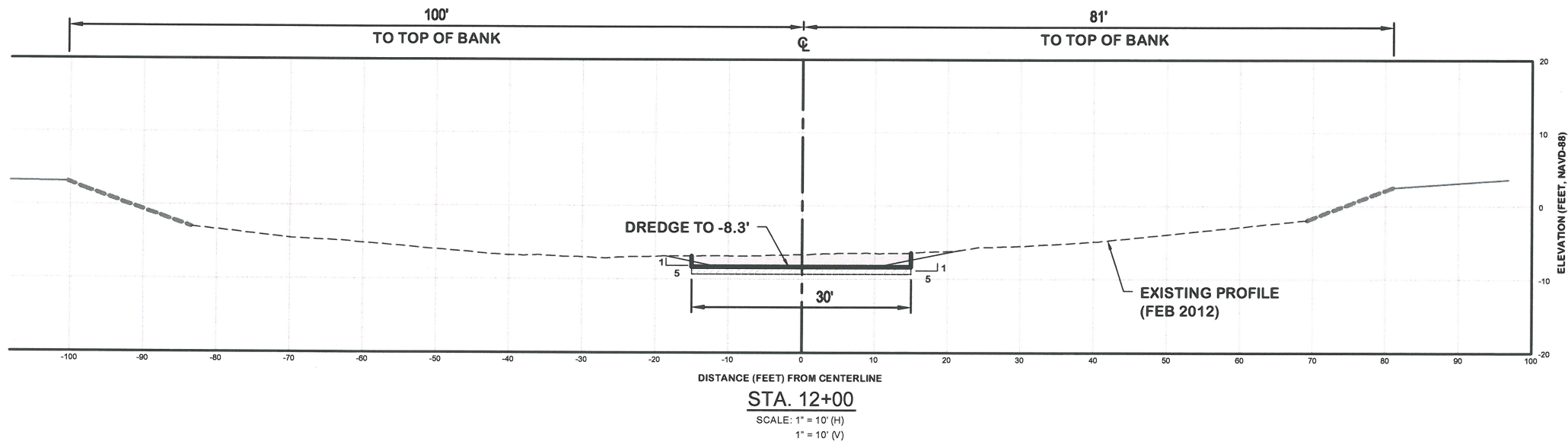
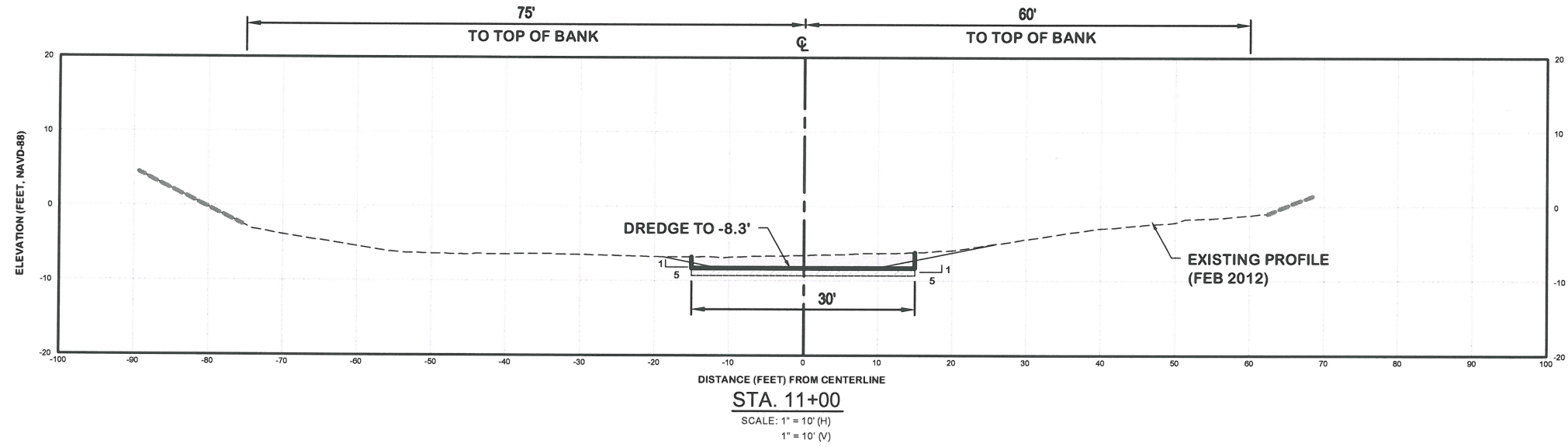
DESIGNED	DRWN	CHECKED
DATE: 12/26/2012	JOB NO. 12-227	SCALE: AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
HARBOR HEAD

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

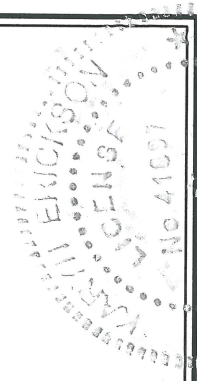


DRAWING NUMBER
7E
SHEET 16 OF 43



LEGEND:

	DREDGE AREA
	1' OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVTMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



Erik Erickson
Professional Engineer, No. 41097

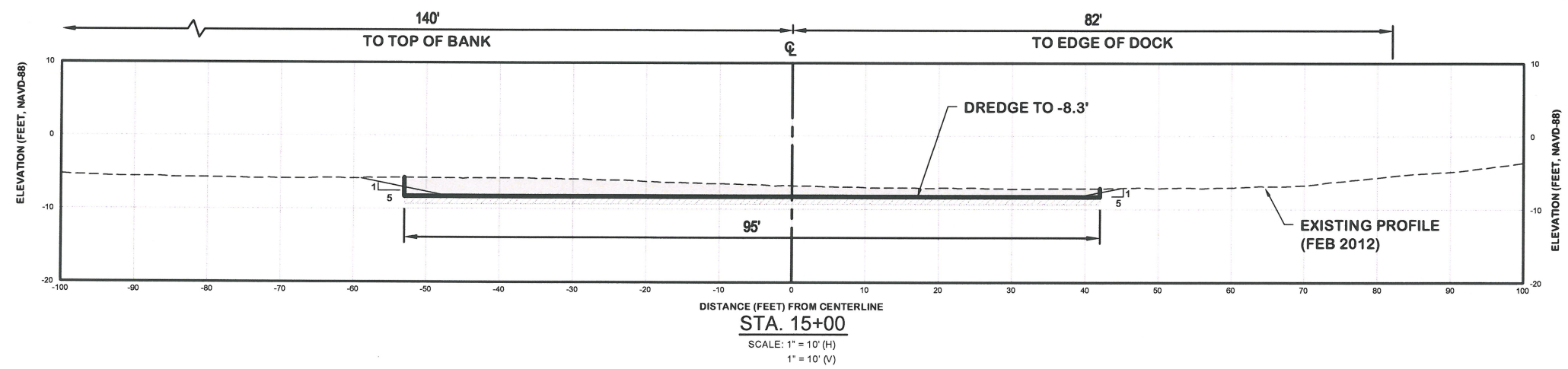
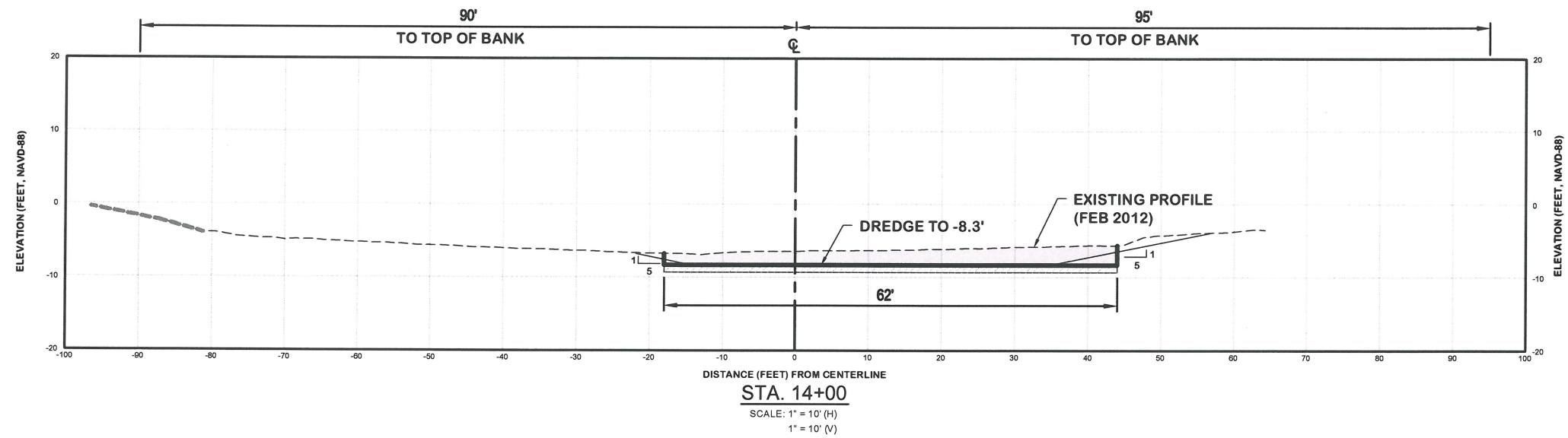
REV. NO.	DATE	BY	CHKD. BY	REMARKS

DESIGNED BY	DATE	JOB NO.	SCALE
	12/26/2012	12-227	AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
HARBOR HEAD

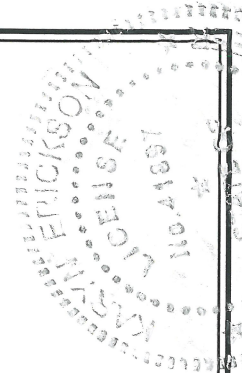
Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

DRAWING NUMBER
7F
SHEET 17 OF 43



LEGEND:

	DREDGE AREA
	1' OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVETMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



KATHY M. ERICKSON, P.E.
 Professional Engineer # 41897
 Date: 1/16/13

REV. NO.	DATE	BY	CHKD. BY	REMARKS

DESIGNED BY	CHECKED BY	DATE	JOB NO.	SCALE
		12/26/2012	12-227	AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
CROSS SECTIONS
HARBOR HEAD

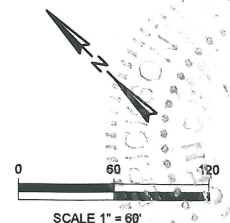
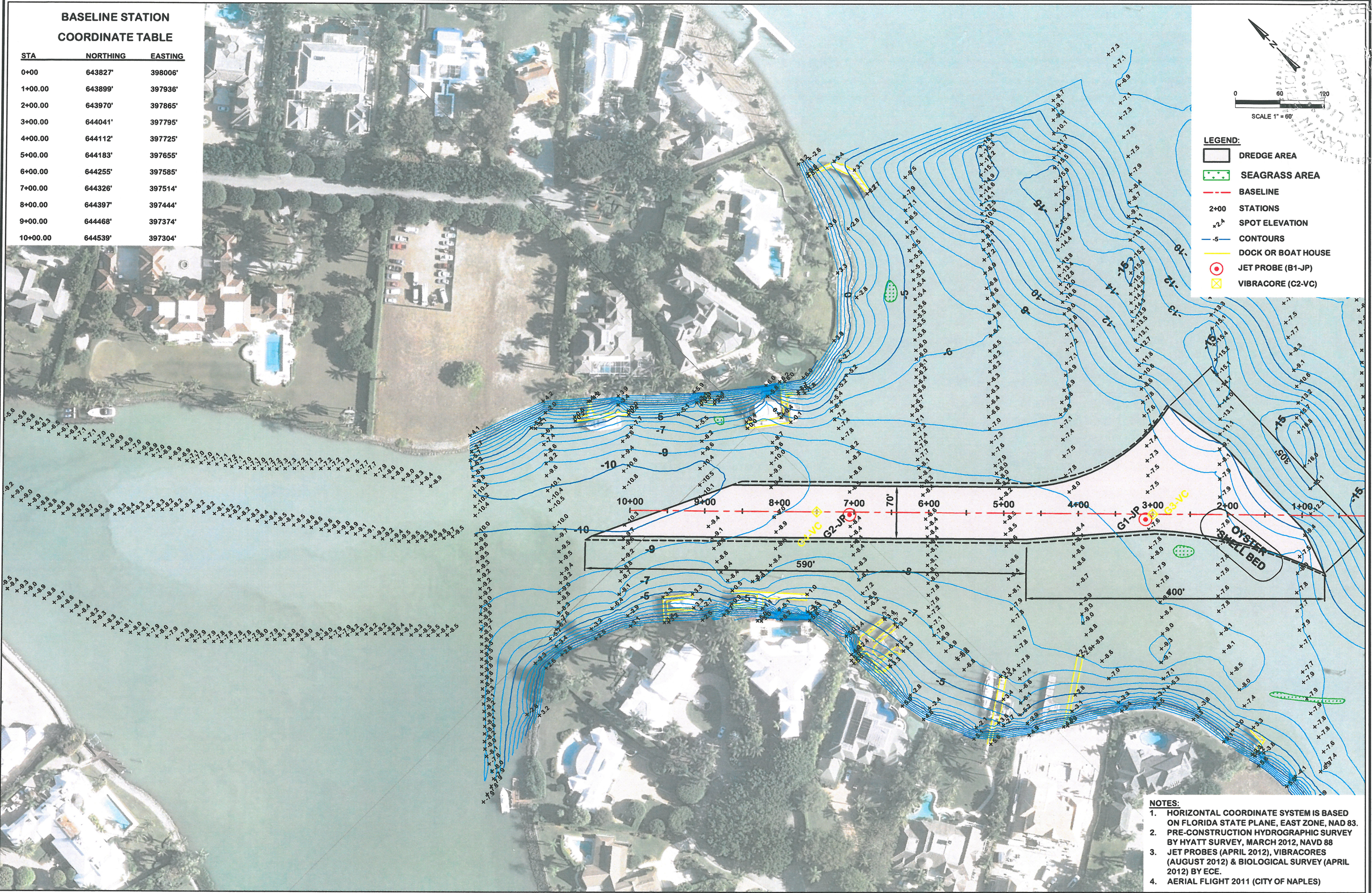
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
7G
 SHEET 18 OF 43

Z:\CADD_Graphics\US Projects\12-227_Naples - Port Royal Canals\Construction\8_Galleon Cove.dwg Jan 17, 2013-11:55am

**BASELINE STATION
COORDINATE TABLE**

STA	NORTHING	EASTING
0+00	643827'	398006'
1+00.00	643899'	397936'
2+00.00	643970'	397865'
3+00.00	644041'	397795'
4+00.00	644112'	397725'
5+00.00	644183'	397655'
6+00.00	644255'	397585'
7+00.00	644326'	397514'
8+00.00	644397'	397444'
9+00.00	644468'	397374'
10+00.00	644539'	397304'



- LEGEND:**
- DREDGE AREA
 - SEAGRASS AREA
 - BASELINE
 - 2+00 STATIONS
 - x1.4 SPOT ELEVATION
 - 5 CONTOURS
 - DOCK OR BOAT HOUSE
 - JET PROBE (B1-JP)
 - VIBRACORE (C2-VC)

- NOTES:**
1. HORIZONTAL COORDINATE SYSTEM IS BASED ON FLORIDA STATE PLANE, EAST ZONE, NAD 83.
 2. PRE-CONSTRUCTION HYDROGRAPHIC SURVEY BY HYATT SURVEY, MARCH 2012, NAVD 88
 3. JET PROBES (APRIL 2012), VIBRACORES (AUGUST 2012) & BIOLOGICAL SURVEY (APRIL 2012) BY ECE.
 4. AERIAL FLIGHT 2011 (CITY OF NAPLES)

KARIN M. ANDERSON, P.E.
Professional Engineer # 41897

REV. NO.	DATE	BY	CHKD. BY	REMARKS

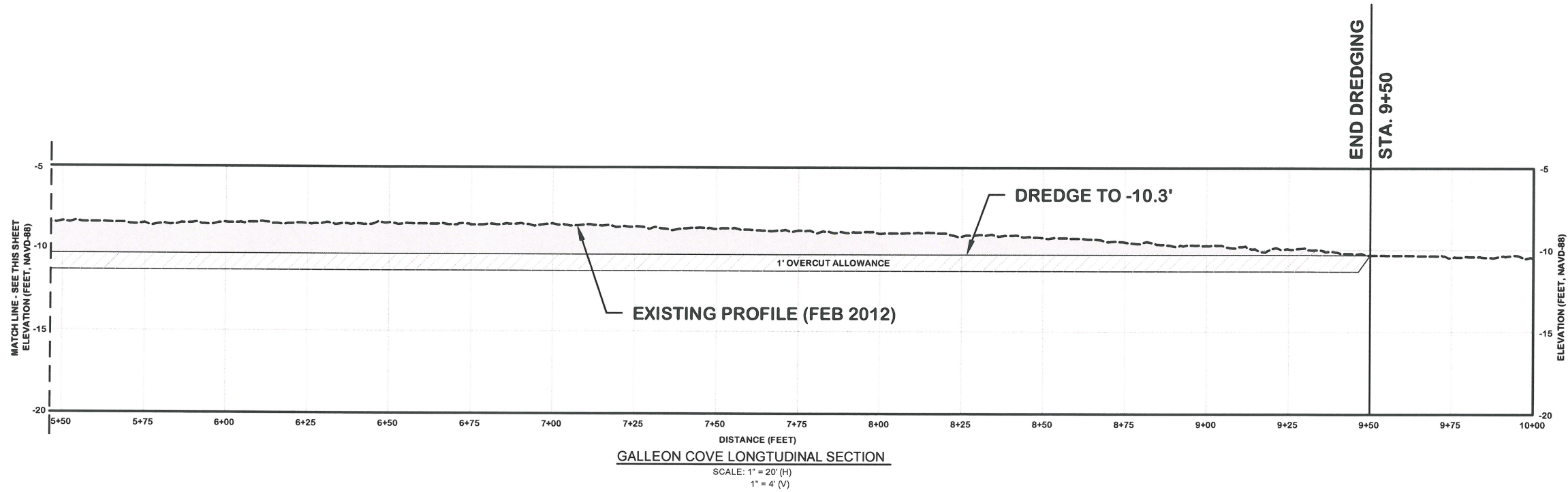
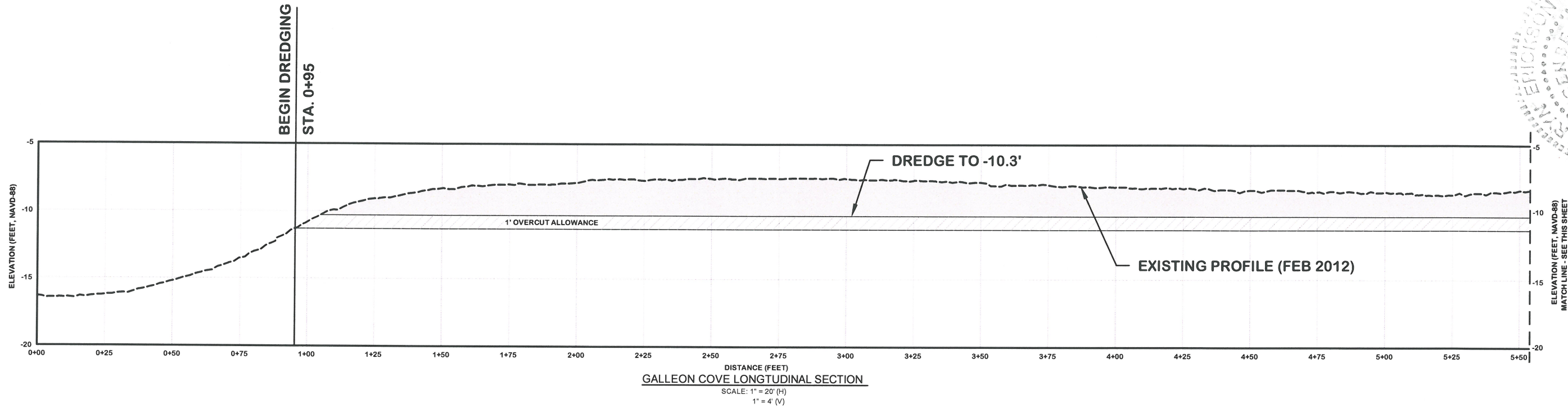
DESIGNED BY	CHECKED BY	DATE	SCALE

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**DREDGE AREA - PLAN VIEW
GALLEON COVE**

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 34240
(941) 373-6460

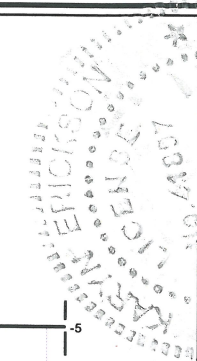
ECE
Erickson Consulting Engineers

DRAWING NUMBER
8A
SHEET 19 OF 43



LEGEND:

	DREDGE AREA
	1 FT. OVERCUT ALLOWANCE
	EXISTING BOTTOM



Signature: *Kathy Erickson*
 Date: 1/16/13
 KATHY M. ERICKSON P.E.
 Professional Engineer, No. 14897

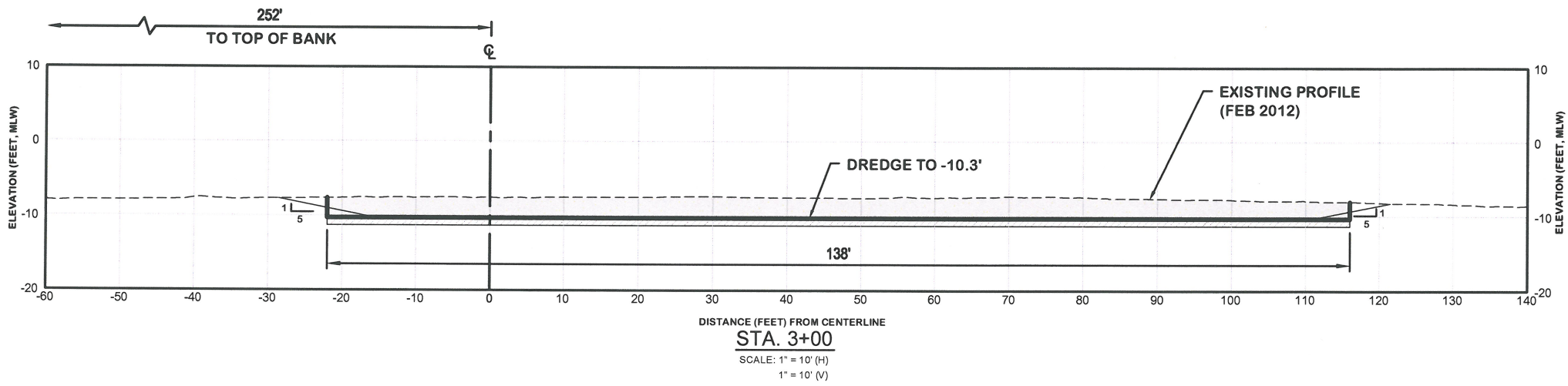
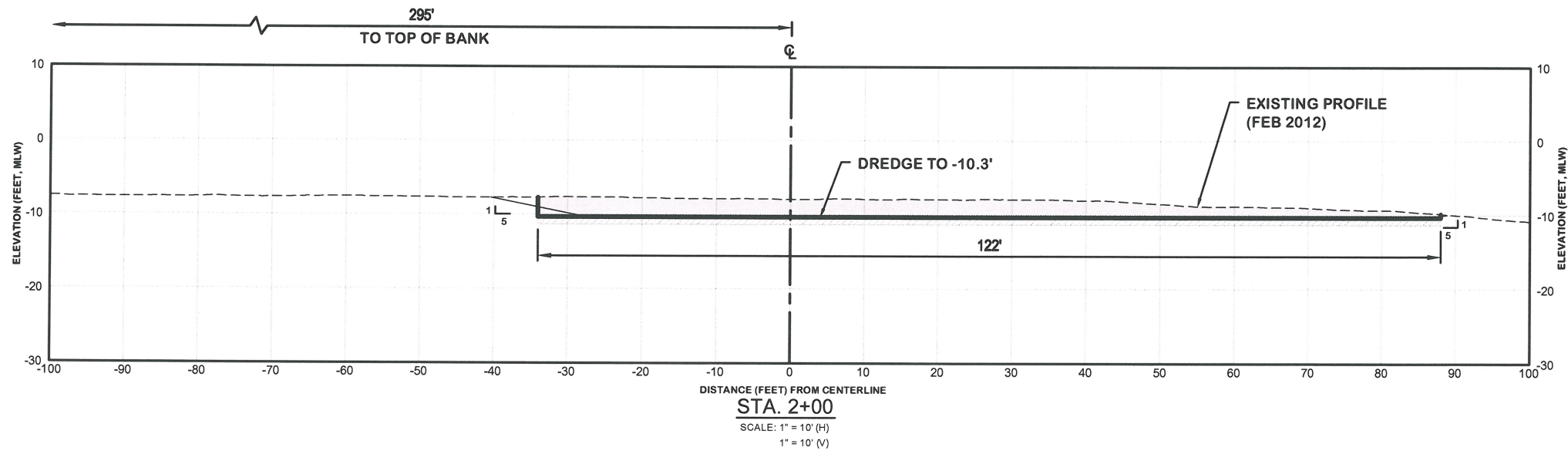
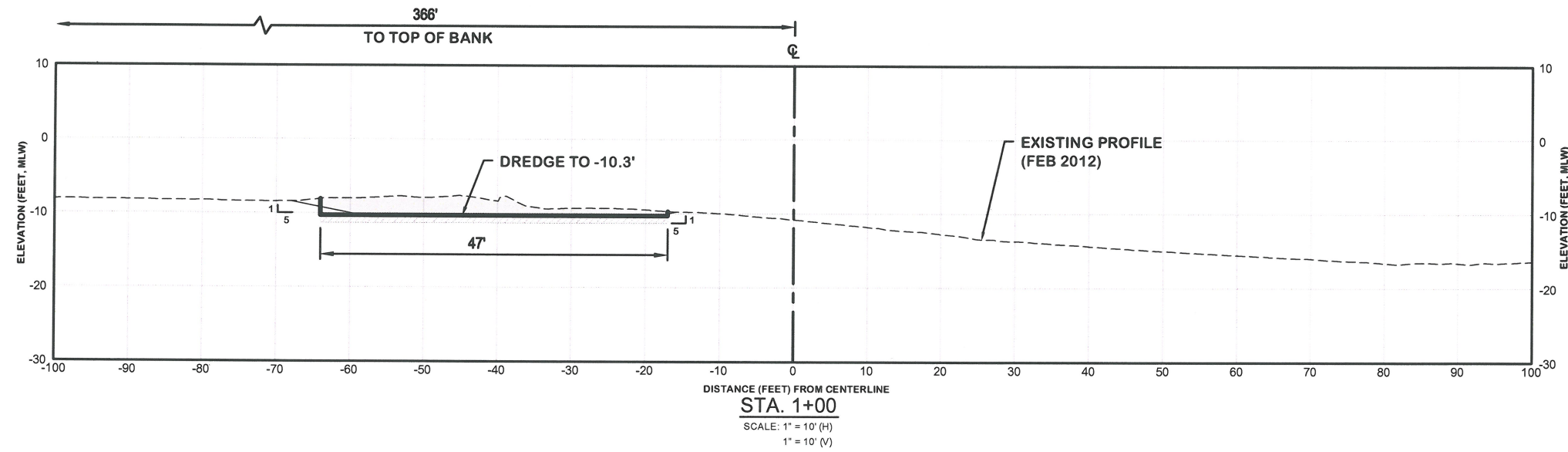
REV. NO.	DATE	BY	CHKD BY	REMARKS

DESIGNED BY	DRIVER TO	ORDERED BY	DATE	JOB NO.	SCALE
			12/28/2012	12-227	AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
LONGTUDINAL CENTER LINE PROFILE
 GALLEON COVE

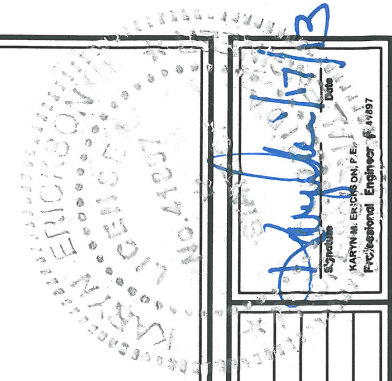
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
8B
 SHEET 20 OF 43



LEGEND:

- DREDGE AREA
- 1' OVERCUT ALLOWANCE
- EXISTING BOTTOM
- BOX CUT
- DESIGN SLOPE



Signature: *Kathy Erickson*
Date: 1/17/13
Professional Engineer, FL 12282

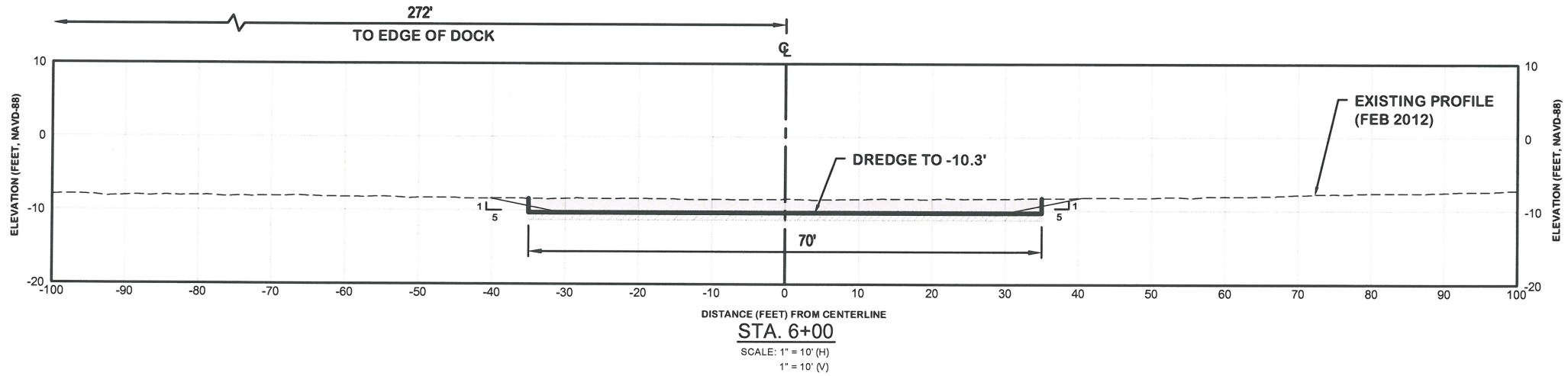
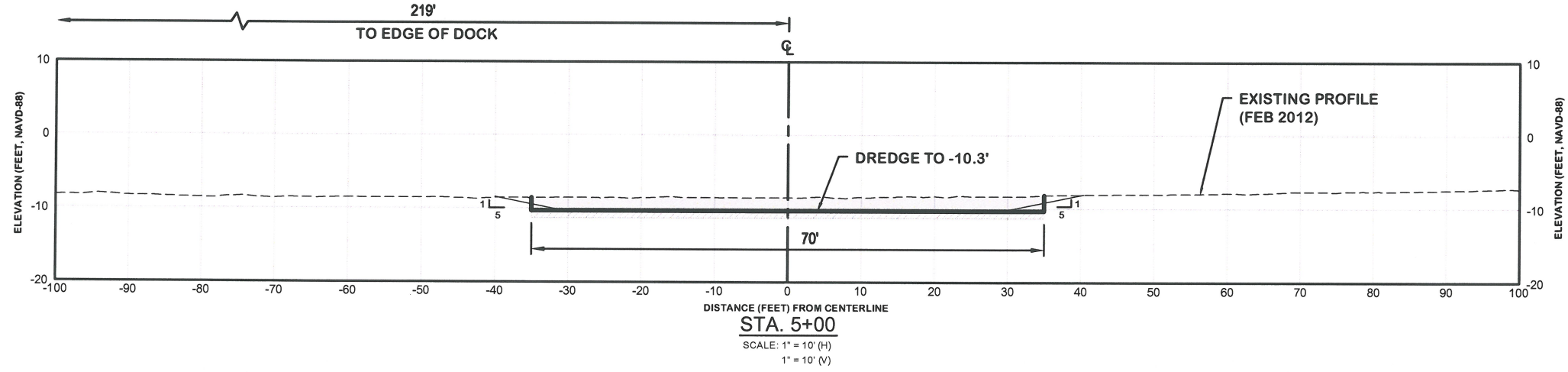
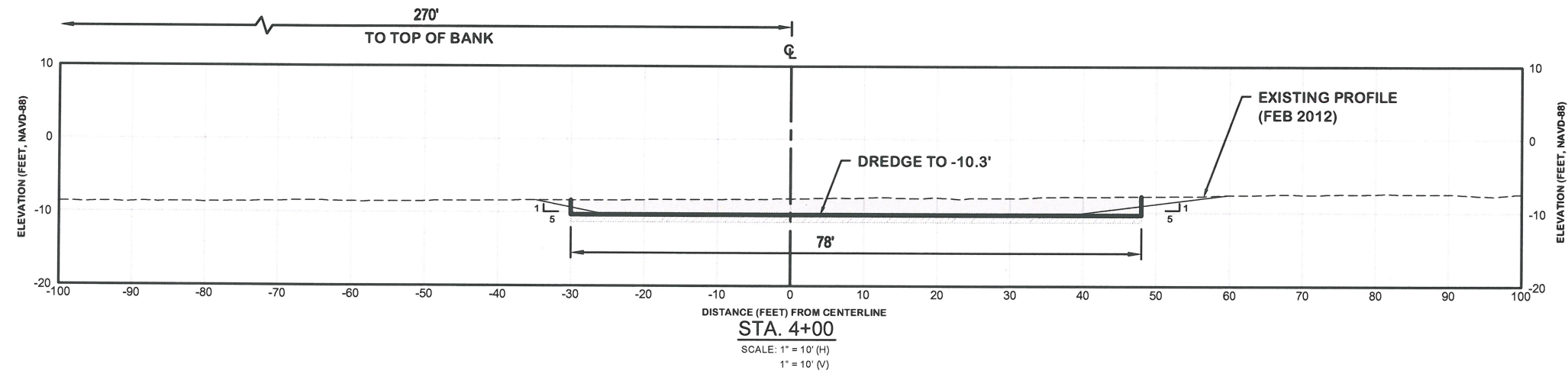
REV. NO.	DATE	BY	CHKD. BY	REMARKS

ISSUED BY	DATE	JOB NO.	SCALE
	12/28/2012	12-227	AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
GALLEON COVE

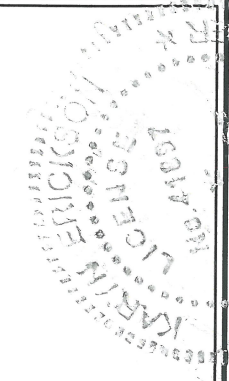
Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

DRAWING NUMBER
8C
SHEET 21 OF 43



LEGEND:

	DREDGE AREA
	1' OVERCUT ALLOWANCE
	EXISTING BOTTOM
	BOX CUT
	DESIGN SLOPE



REVISIONS

REV. NO.	DATE	BY	DESCRIPTION

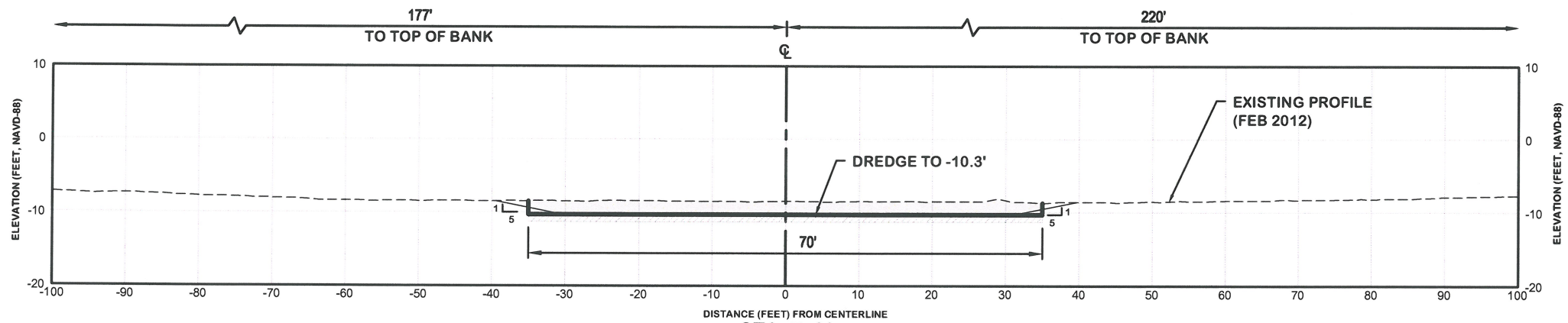
DESIGNED BY	DATE	CHECKED BY
	12/26/2012	
DRAWN BY	JOB NO.	SCALE
	12-227	AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA

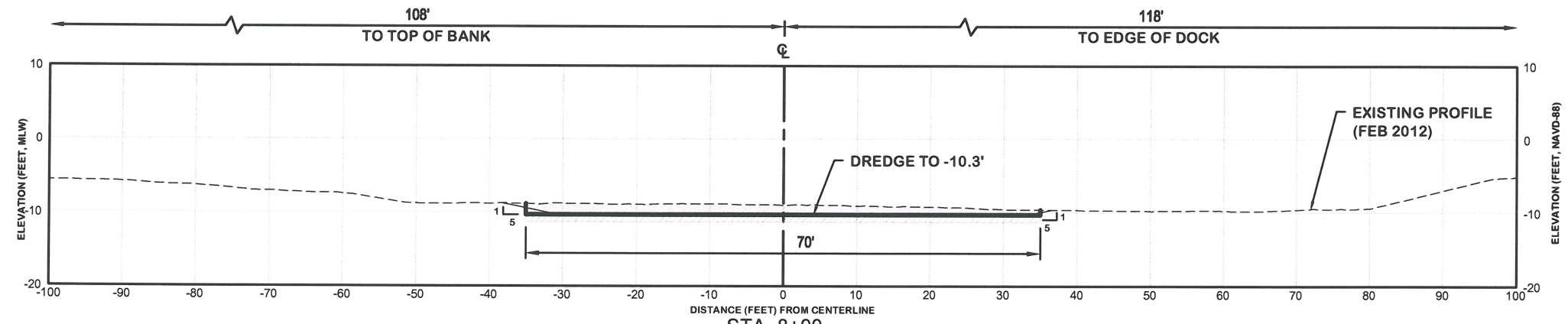
CROSS SECTIONS
GALLEON COVE

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

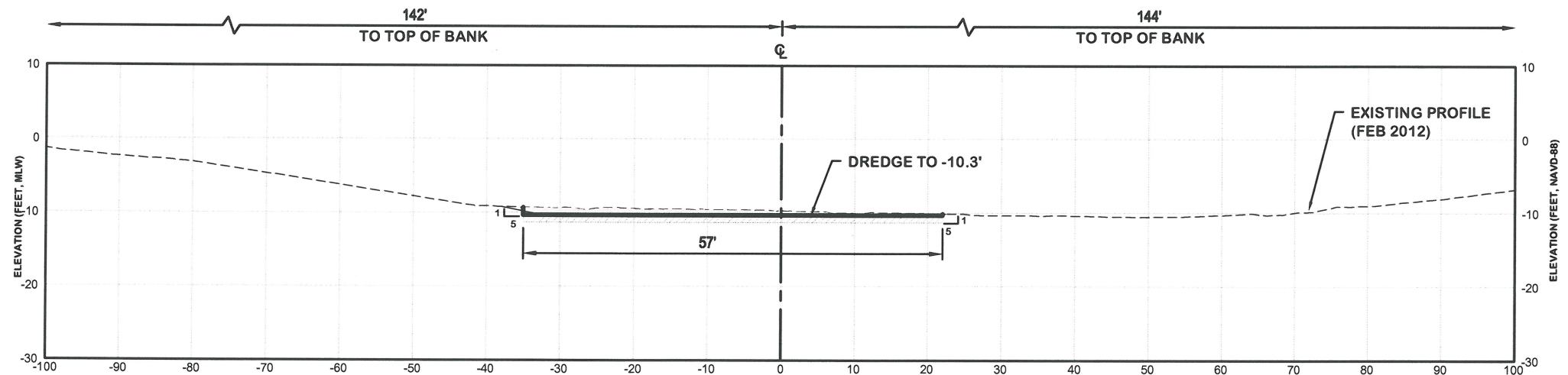
DRAWING NUMBER
8D
SHEET 22 OF 43



STA. 7+00
SCALE: 1" = 10' (H)
1" = 10' (V)



STA. 8+00
SCALE: 1" = 10' (H)
1" = 10' (V)



STA. 9+00
SCALE: 1" = 10' (H)
1" = 10' (V)

LEGEND:

- DREDGE AREA
- 1' OVERCUT ALLOWANCE
- EXISTING BOTTOM
- BOX CUT
- DESIGN SLOPE



DATE: 1/17/13
KARYN M. ERICKSON, P.E.
Professional Engineer # 41897

REV. NO.	DATE	BY	CHKD. BY	REMARKS

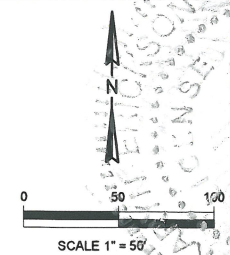
ISSUED BY	DATE	JOB NO.	SCALE
	12/26/2012	12-227	AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
GALLEON COVE

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
ECE
Erickson Consulting Engineers (941) 373-6460

DRAWING NUMBER
8E
SHEET 23 OF 43

MATCH LINE - SEE SHEET 10A



- LEGEND:**
- DREDGE AREA
 - SEAGRASS AREA
 - BASELINE
 - 2+00 STATIONS
 - x SPOT ELEVATION
 - CONTOURS
 - o JET PROBE (B1-JP)
 - + VIBRACORE (C2-VC)

**EAST BASELINE STATION
COORDINATE TABLE**

STA	NORTHING	EASTING
0+00	643705'	393965'
1+00	643736'	393870'
2+00	643768'	393775'
3+00	643800'	393680'
4+00	643832'	393585'
4+50	643848'	393538'

**SOUTH BASELINE STATION
COORDINATE TABLE**

STA	NORTHING	EASTING
0+00	643860'	393397'
1+03	643778'	393335'
1+00	643779'	393338'
1+76	643710'	393308'
2+00	643687'	393301'
2+48	643640'	393289'
3+00	643588'	393283'
3+38	643555'	393281'

- NOTES:**
1. HORIZONTAL COORDINATE SYSTEM IS BASED ON FLORIDA STATE PLANE, EAST ZONE, NAD 83.
 2. PRE-CONSTRUCTION HYDROGRAPHIC SURVEY BY HYATT SURVEY, MARCH 2012, NAVD 88
 3. JET PROBES (APRIL 2012), VIBRACORES (AUGUST 2012) & BIOLOGICAL SURVEY (APRIL 2012) BY ECE.
 4. AERIAL FLIGHT 2011 (CITY OF NAPLES)

KARYN M. MCCOSKEY
 Professional Engineer # 41897

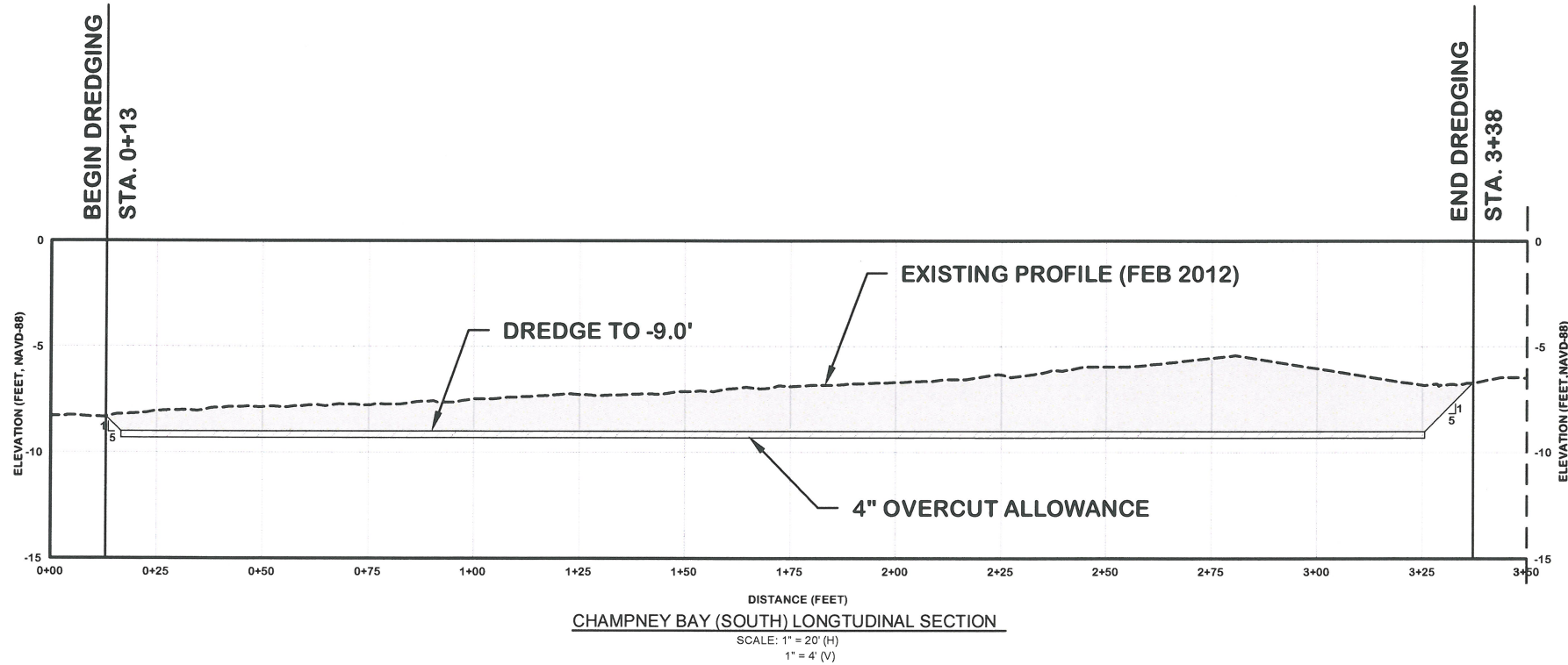
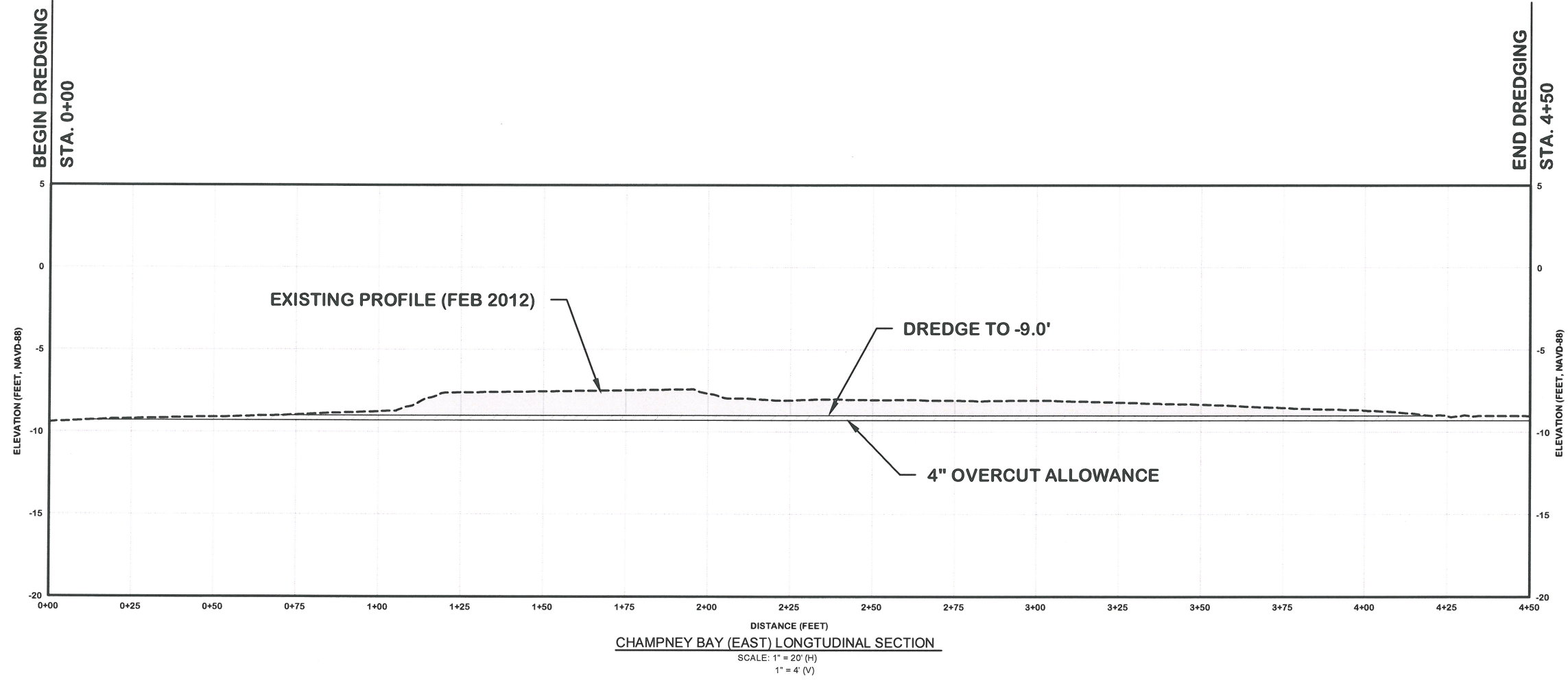
REV. NO.	DATE	BY	CHKD BY	REMARKS

DESIGNED BY	CHECKED BY	DATE	JOB NO.	SCALE
BC	TD	12/28/2012	12-227	AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
DREDGE AREA - PLAN VIEW
CHAMPNEY BAY (EAST & SOUTH)

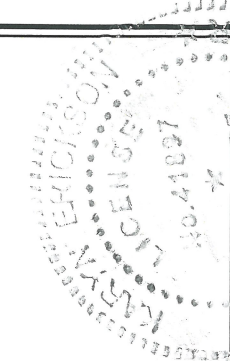
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
9A
 SHEET 24 OF 43



LEGEND:

	DREDGE AREA
	4 IN. OVERCUT ALLOWANCE
	EXISTING BOTTOM



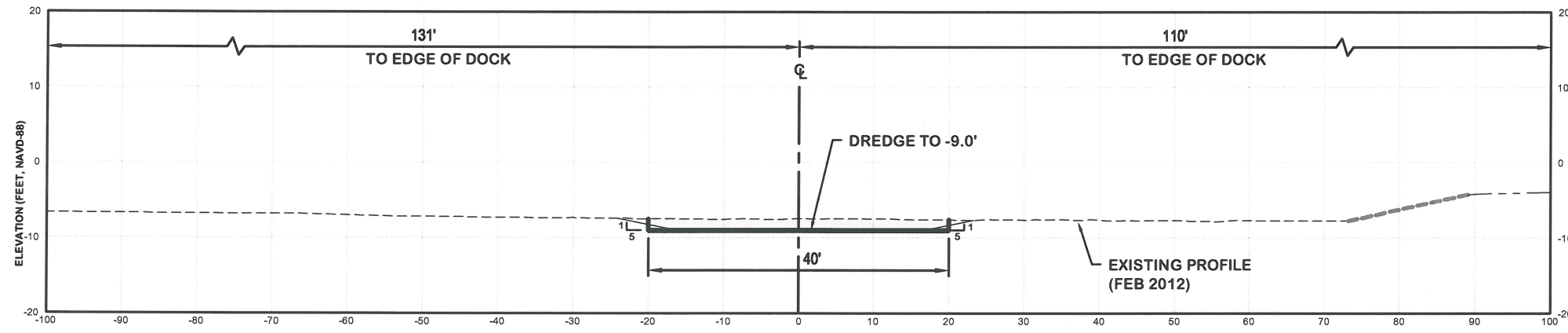
Signature: *Karya Erickson* 1/17/13
 KARYA ERICKSON P.E.
 Professional Engineer # 41097

REV. NO.	DATE	BY	CHKD BY	REMARKS

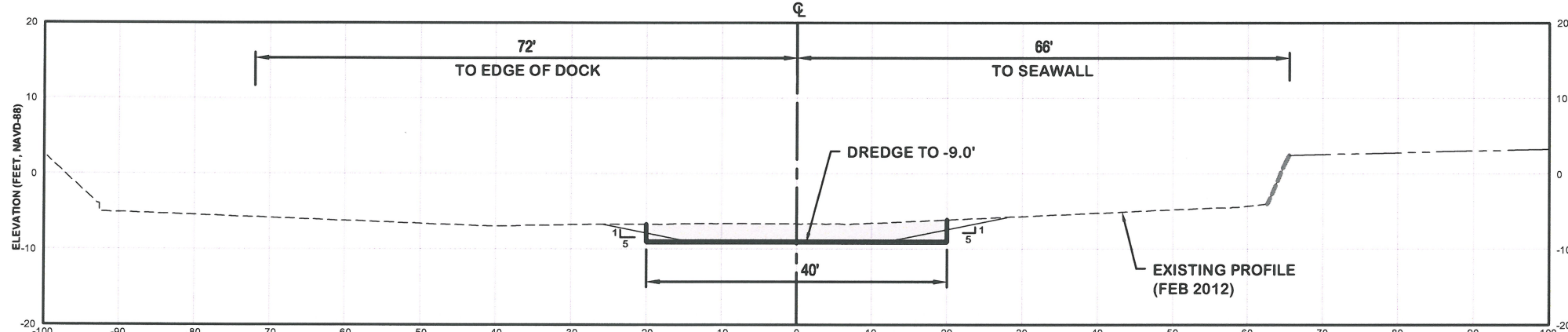
DESIGNED BY	DRWN TO	CHKD BY
DATE: 12/26/2012	JOB NO. 12-227	SCALE: AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
**LONGTUDINAL CENTER LINE PROFILE
 CHAMPNEY BAY (SOUTH & EAST)**

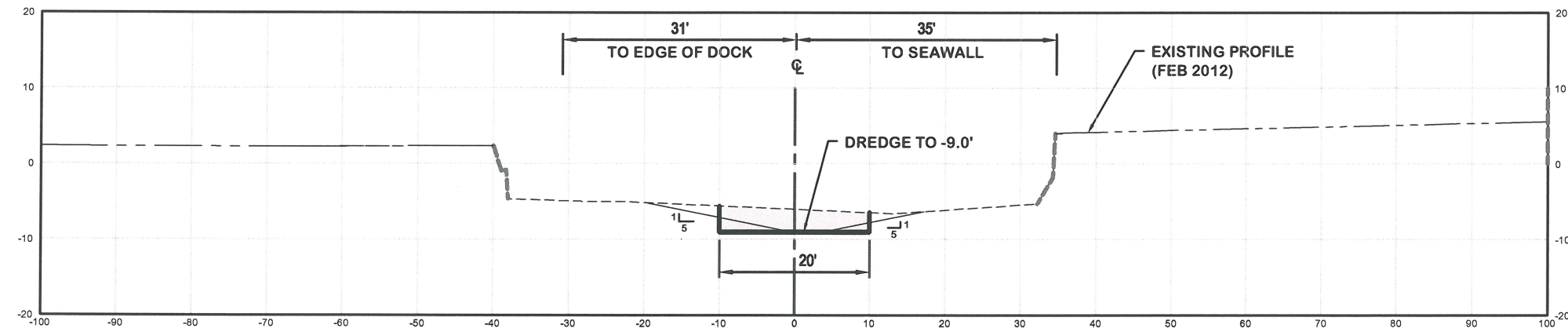
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460



STA. 1+00 (SOUTH)
SCALE: 1" = 10' (H)
1" = 10' (V)



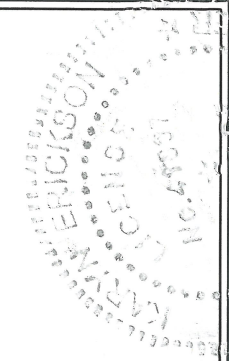
STA. 2+00 (SOUTH)
SCALE: 1" = 10' (H)
1" = 10' (V)



STA. 3+00 (SOUTH)
SCALE: 1" = 10' (H)
1" = 10' (V)

LEGEND:

- DREDGE AREA
- 4" OVERCUT ALLOWANCE
- EXISTING BOTTOM
- REVETMENT
- UPLAND
- BOX CUT
- DESIGN SLOPE



Kathy Erickson
KATHY M. ERICKSON, P.E.
Professional Engineer # 11897

REV. NO.	DATE	BY	CHKD. BY	REMARKS

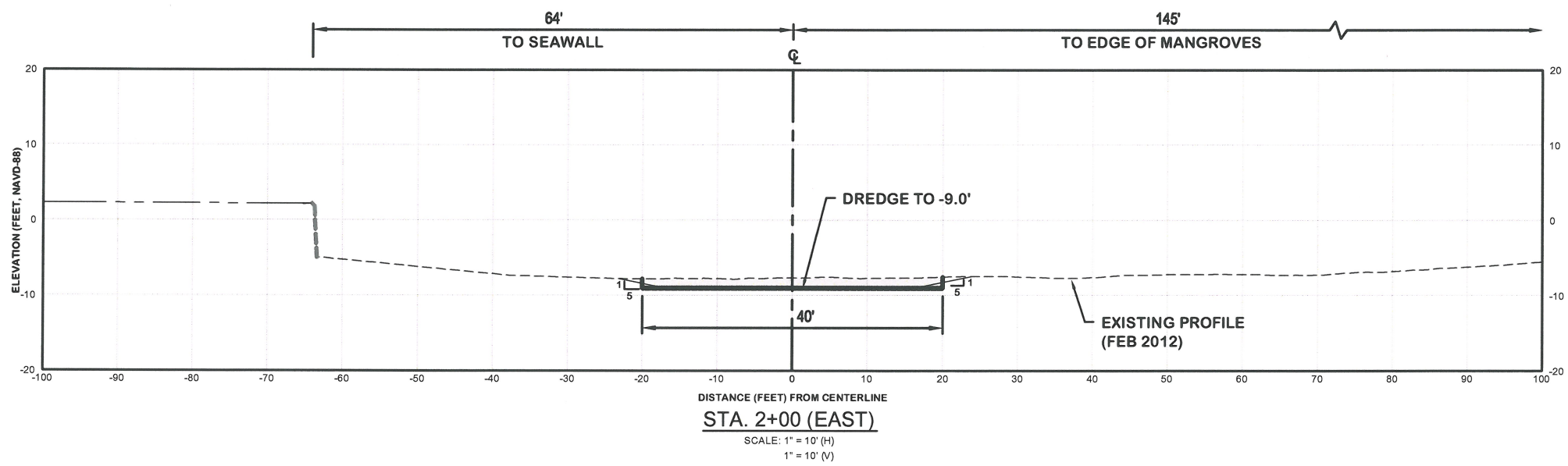
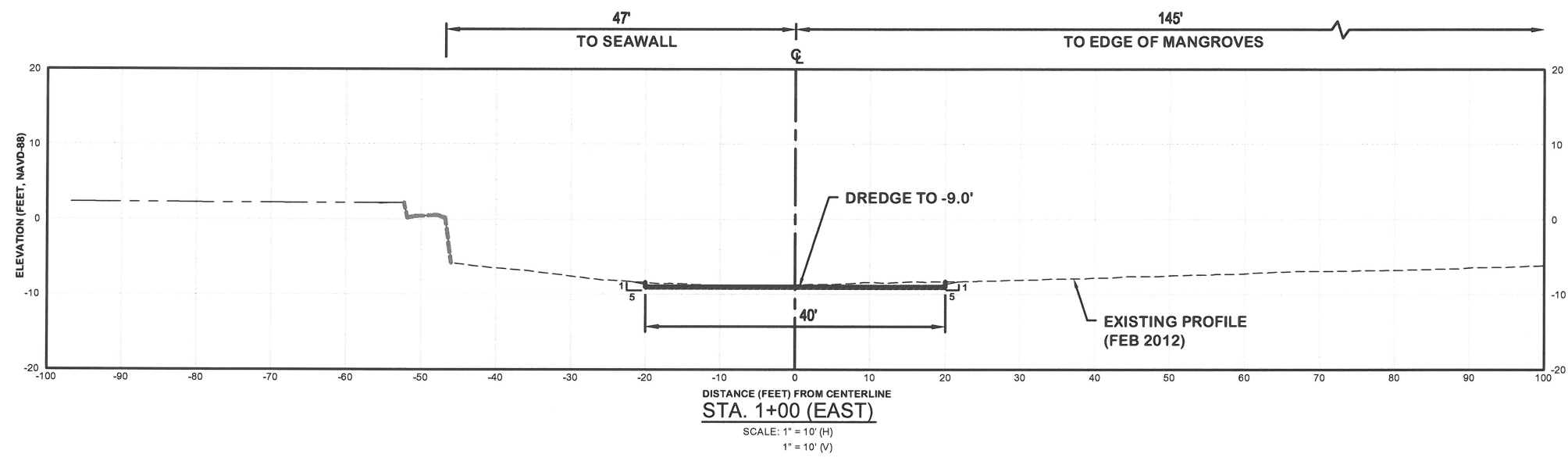
DESIGNED BY	DRAWN BY	CHECKED BY	DATE

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
CHAMPNEY BAY (SOUTH)

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

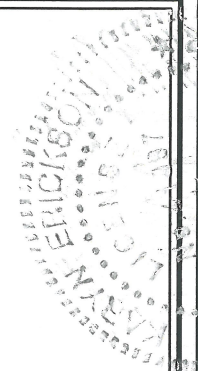
DRAWING NUMBER
9C
SHEET 26 OF 43

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LEGEND:

	DREDGE AREA
	4" OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVTMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



[Signature]
 Professional Engineer # 11897

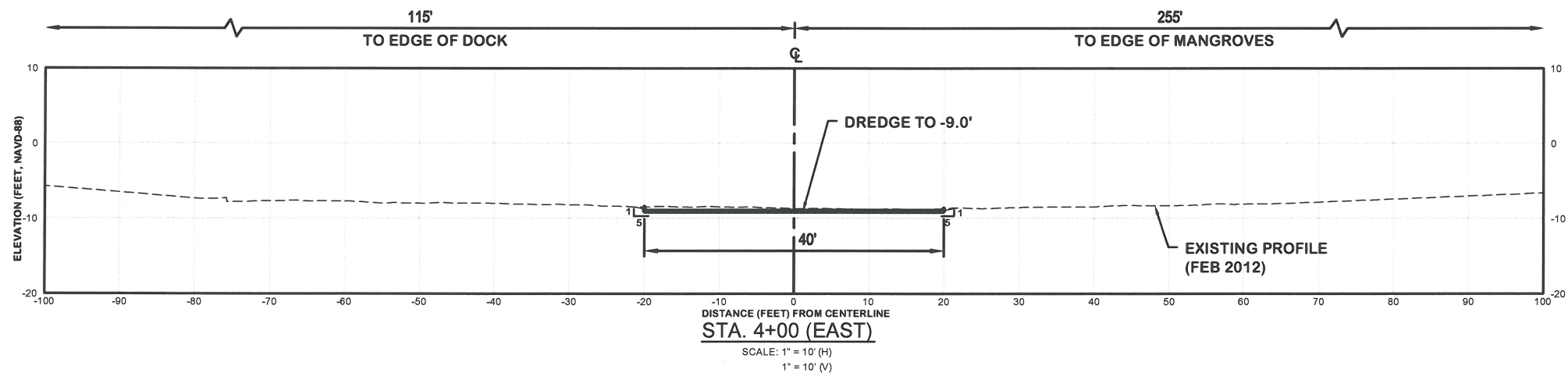
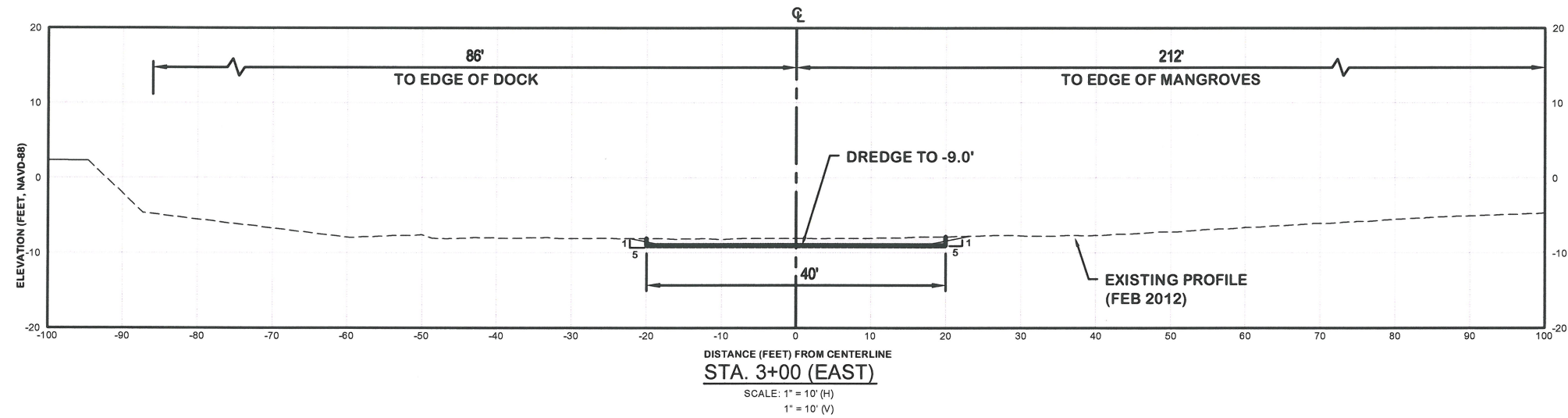
REV. No.	DATE	BY	REMARKS

DESIGNED BY	CHECKED BY	DATE	SCALE
		12/28/2012	AS NOTED
		JOB NO. 12-227	

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
CROSS SECTIONS
 CHAMPNEY BAY (EAST)

Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
9D
 SHEET 27 OF 43



LEGEND:

	DREDGE AREA
	4" OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVETMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



DATE: 1/17/13
 MARK W. ERICKSON, P.E.
 Professional Engineer # 41887

REV. No.	DATE	BY	CHKD. BY

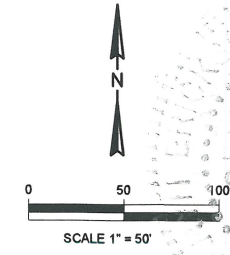
DESIGNED BY	DATE	CHECKED BY	DATE
	12/28/2012		
JOB NO.	12-227	SCALE	AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
CROSS SECTIONS
 CHAMPNEY BAY (EAST)

Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
9E
 SHEET 28 OF 43

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- LEGEND:**
- DREDGE AREA
 - SEAGRASS AREA
 - BASELINE
 - STATIONS
 - 2.5 SPOT ELEVATION
 - CONTOURS
 - DOCK OR BOAT HOUSE
 - JET PROBE (B1-JP)
 - VIBRACORE (C2-VC)

**BASELINE STATION
COORDINATE TABLE**

STA	NORTHING	EASTING
0+00	643950'	393293'
0+67	644014'	393313'
1+00	644045'	393324'
2+00	644140'	393356'
2+41	644178'	393370'
2+99	644234'	393387'
3+00	644235'	393387'
3+10	644245'	393390'
4+00	644333'	393406'
5+00	644431'	393424'
6+00	644530'	393442'
7+00	644628'	393460'
8+00	644726'	393478'
8+02	644729'	393479'
8+95	644821'	393486'

- NOTES:**
1. HORIZONTAL COORDINATE SYSTEM IS BASED ON FLORIDA STATE PLANE, EAST ZONE, NAD 83.
 2. PRE-CONSTRUCTION HYDROGRAPHIC SURVEY BY HYATT SURVEY, MARCH 2012, NAVD 88
 3. JET PROBES (APRIL 2012), VIBRACORES (AUGUST 2012) & BIOLOGICAL SURVEY (APRIL 2012) BY ECE.
 4. AERIAL FLIGHT 2011 (CITY OF NAPLES)

Signature: *Nathan M. Johnson*
 Date: 1/17/13
 Title: Professional Engineer # 41897

REV. NO.	DATE	DESCRIPTION	BY	CHKD BY	REMARKS

DESIGNED BY: <i>TD</i>	CHECKED BY: <i>CP</i>
DATE: 12/28/2012	JOB NO. 12-227
SCALE: AS NOTED	

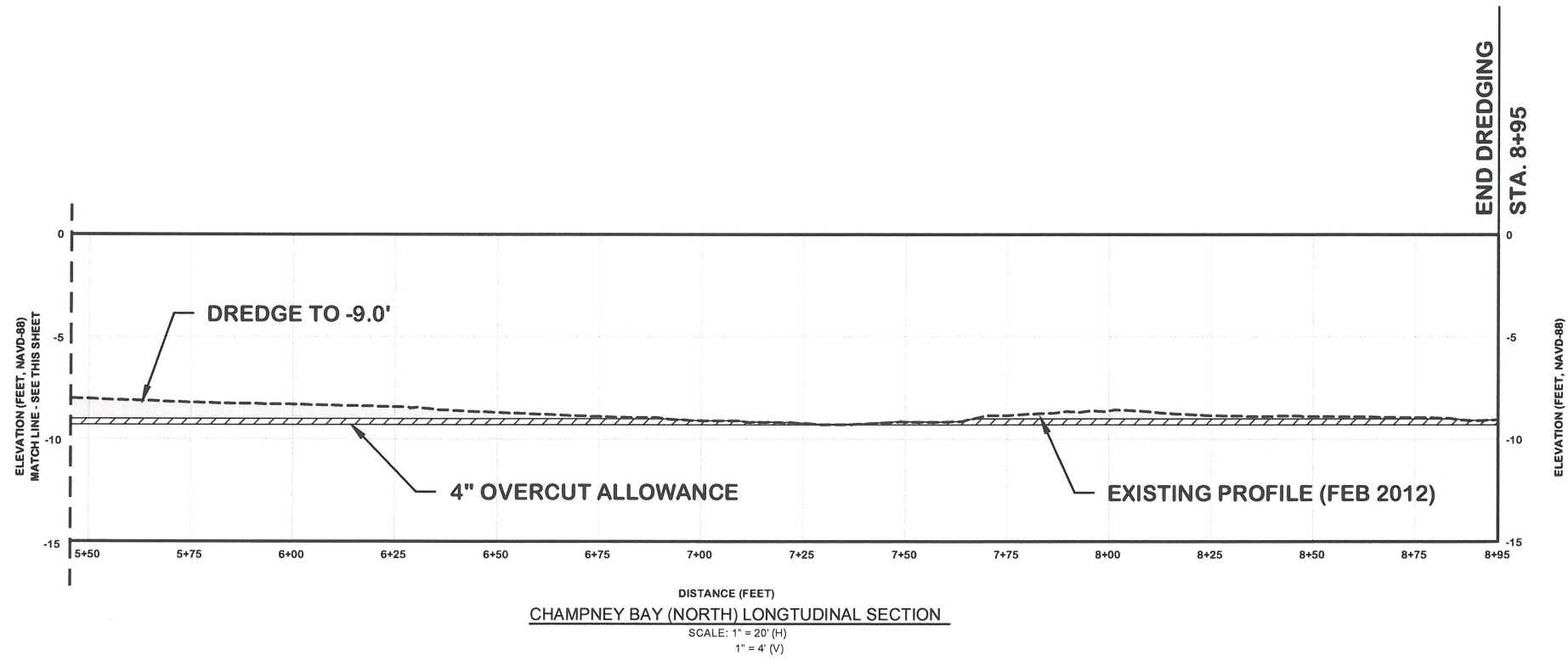
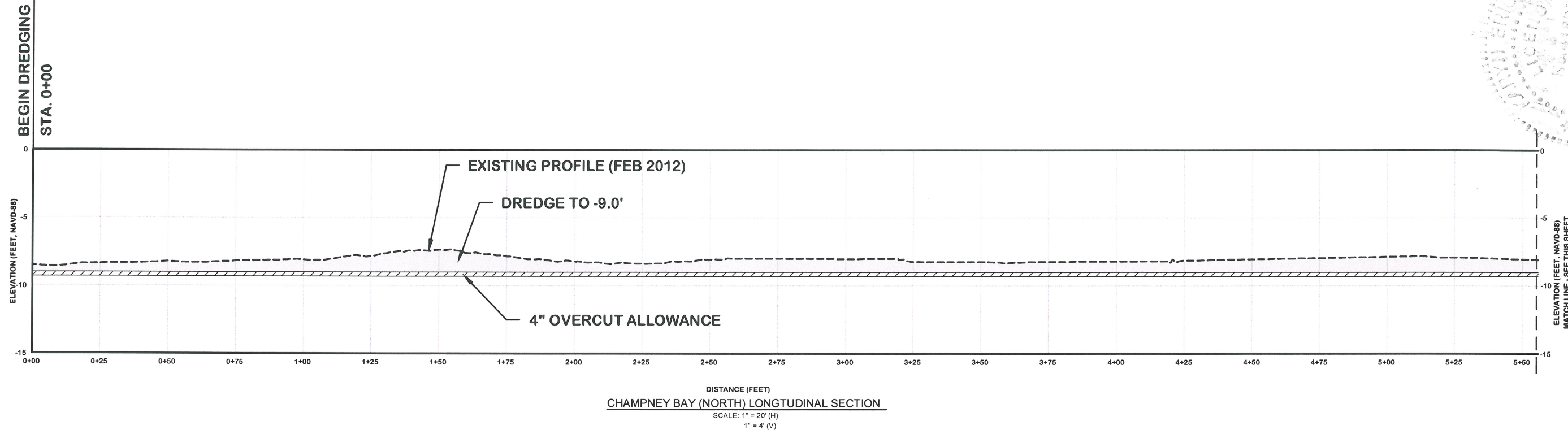
PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA

**DREDGE AREA - PLAN VIEW
CHAMPNEY BAY (NORTH)**

Erickson Consulting Engineers, Inc.
7201 Delainey Court
Sarasota, FL 32420
ECE
Erickson Consulting Engineers (941) 373-6460

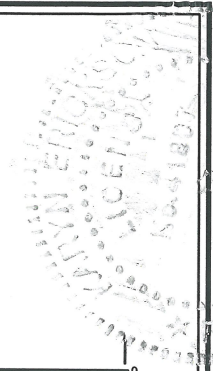
DRAWING NUMBER
10A
SHEET 29 OF 43

MATCH LINE - SEE SHEET 9A



LEGEND:

	DREDGE AREA
	4 IN. OVERCUT ALLOWANCE
	EXISTING BOTTOM



Mary L. Erickson
Date: 1/17/13
Professional Engineer # 41897

REV. No.	DATE	BY	CHKD BY	REMARKS

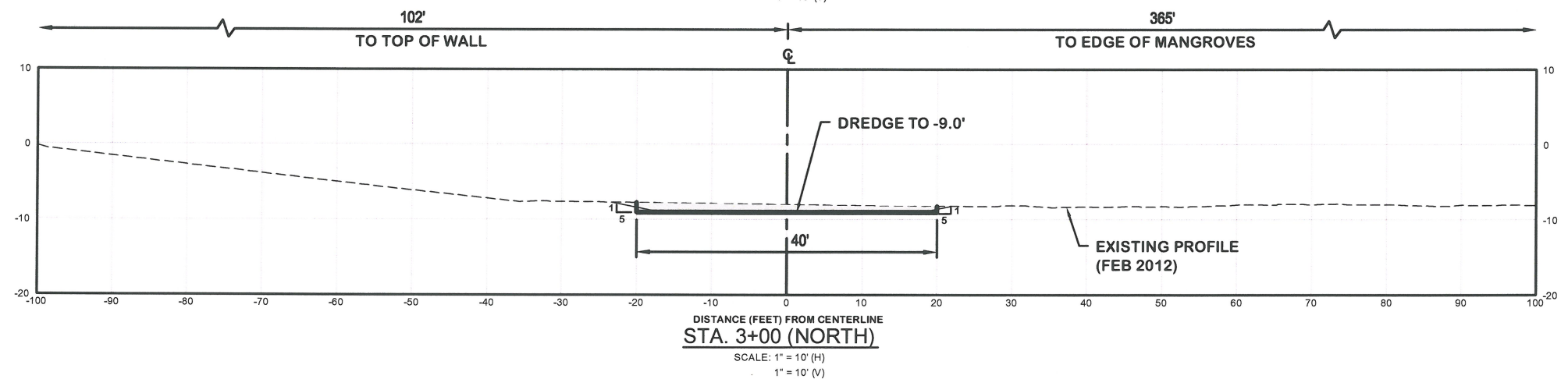
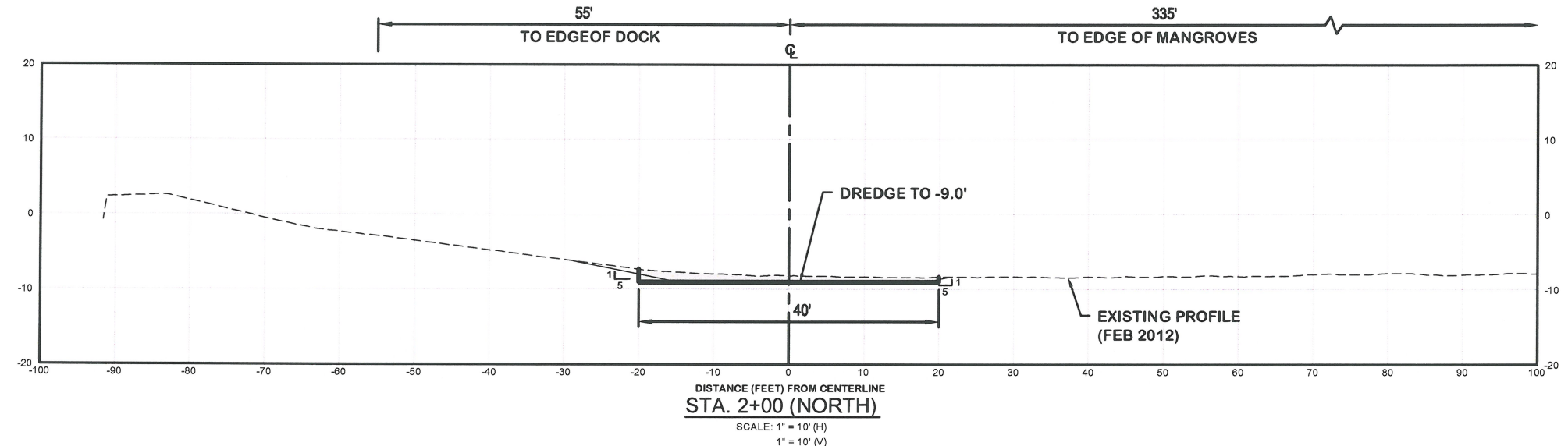
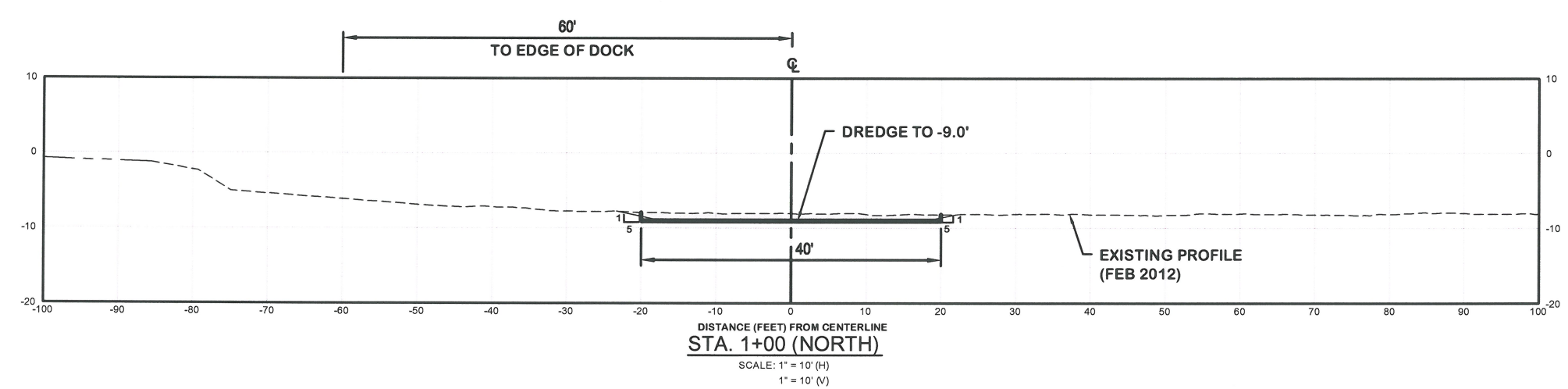
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	12/26/012		AS NOTED
DRAWN TO	JOB NO.		
	12-227		

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**LONGTUDINAL CENTER LINE PROFILE
CHAMPNEY BAY (NORTH)**

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

DRAWING NUMBER
10B
SHEET 30 OF 43

Z:\CADD_Graphics\US Projects\12-227_Naples - Port Royal Canals Construction\9-10_Champney Bay.dwg Jan 16, 2013-4:34pm



LEGEND:

	DREDGE AREA
	4" OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVETMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



Signature: *Karyn Erickson*
 DATE: 1/17/13
 KARYN M. ERICKSON, P.E.
 Professional Engineer # 41887

REV. NO.	DATE	BY	CHKD BY	REMARKS

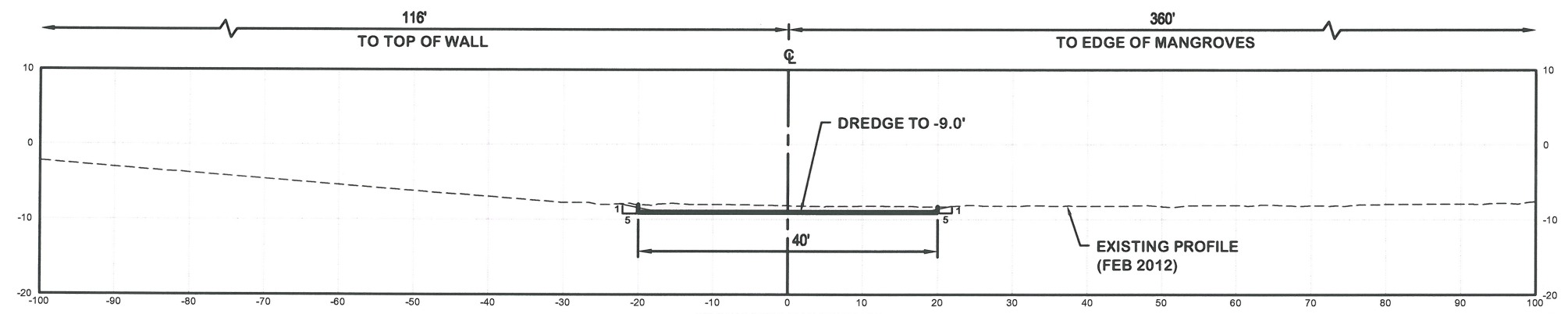
DESIGNED BY	DATE	CHECKED BY
	12/26/2012	
DRAWN BY	JOB NO.	SCALE
	12-227	AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
CROSS SECTIONS
 CHAMPNEY BAY (NORTH)

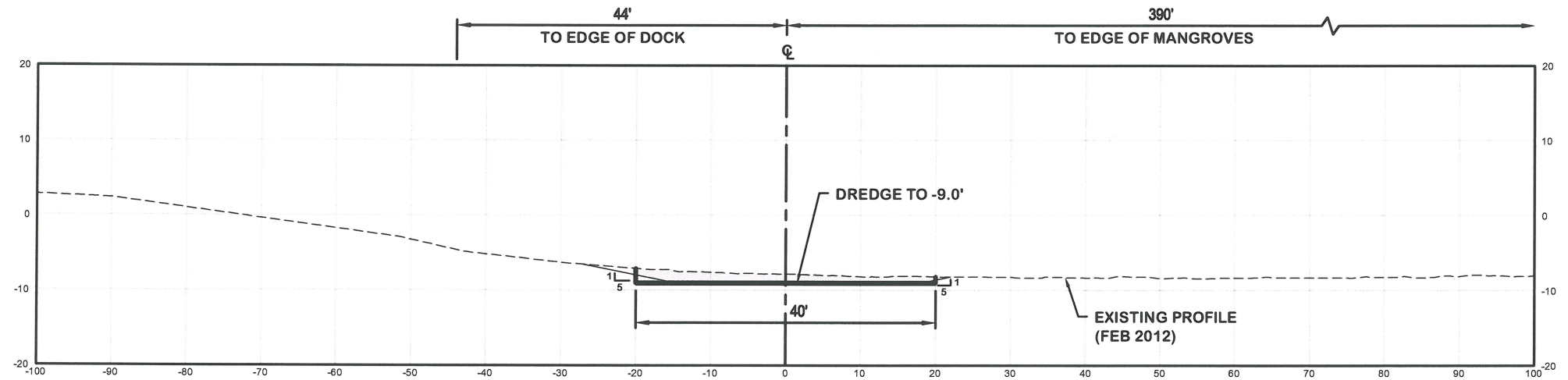
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

DRAWING NUMBER
10C
 SHEET 31 OF 43

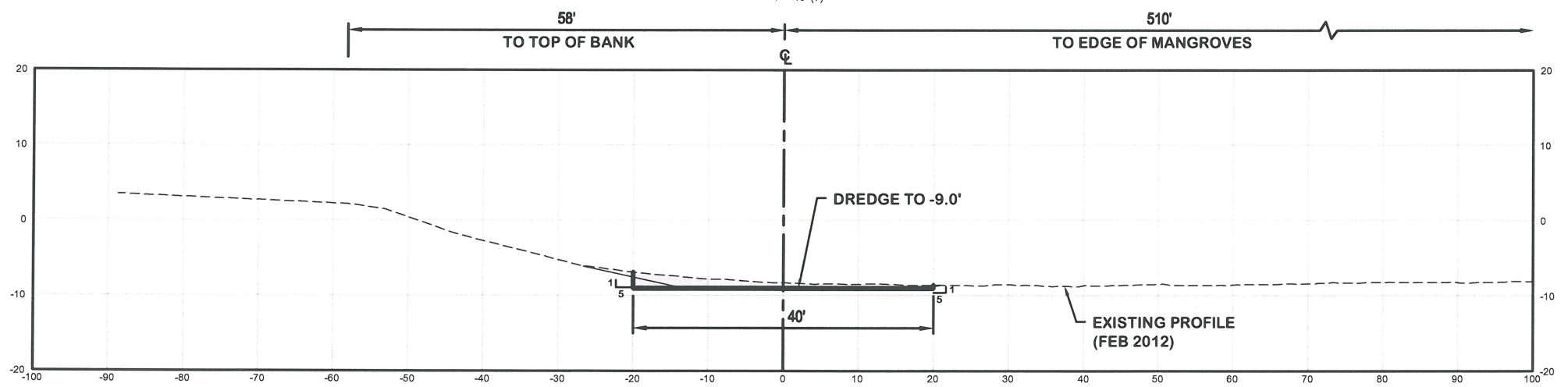
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DISTANCE (FEET) FROM CENTERLINE
STA. 4+00 (NORTH)
 SCALE: 1" = 10' (H)
 1" = 10' (V)



DISTANCE (FEET) FROM CENTERLINE
STA. 5+00 (NORTH)
 SCALE: 1" = 10' (H)
 1" = 10' (V)



DISTANCE (FEET) FROM CENTERLINE
STA. 6+00 (NORTH)
 SCALE: 1" = 10' (H)
 1" = 10' (V)

LEGEND:

- DREDGE AREA
- 4" OVERCUT ALLOWANCE
- EXISTING BOTTOM
- REVETMENT
- UPLAND
- BOX CUT
- DESIGN SLOPE

Professional Engineer
 License No. 11718
 Date: 1/17/13

REV. NO.	DATE	BY	CHKD BY	REMARKS

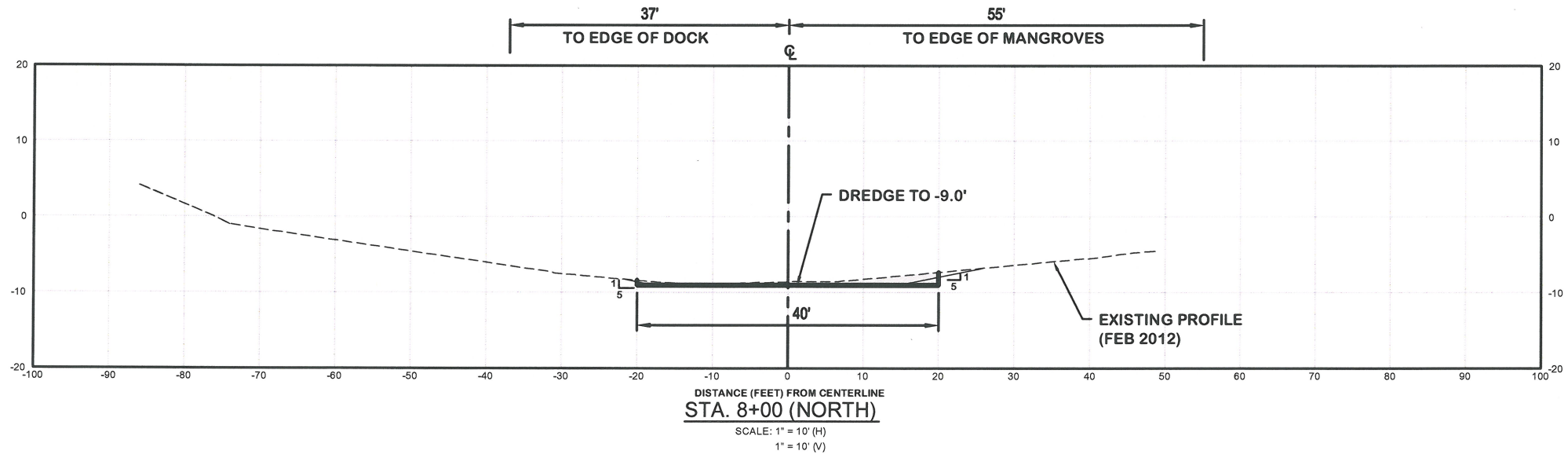
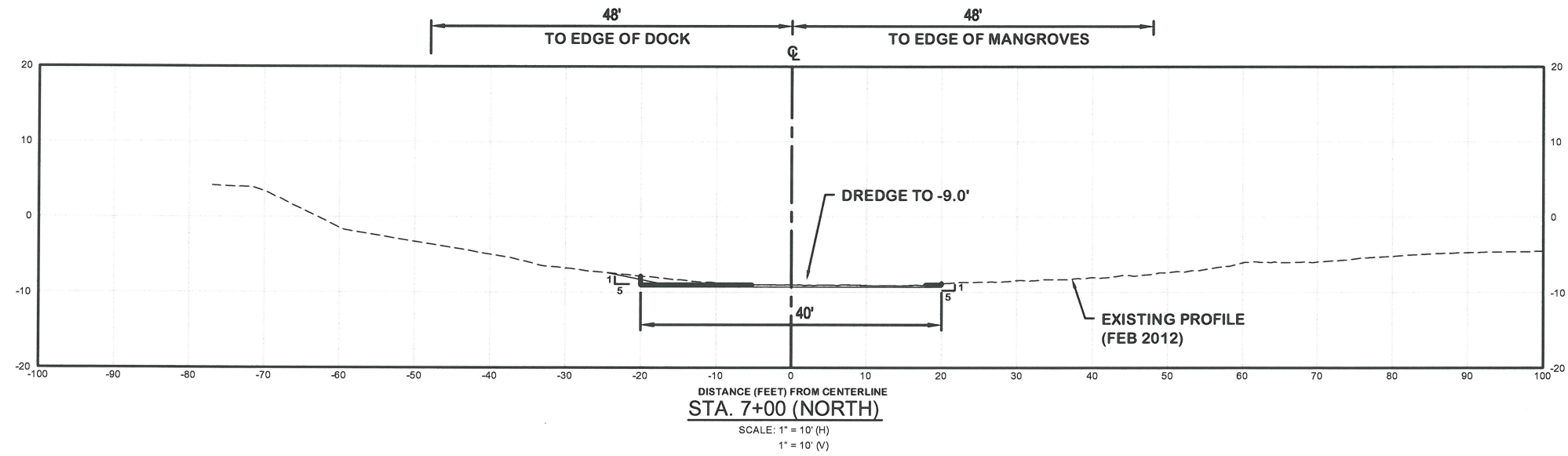
DESIGNED BY: BC
 DRAWN TO: CP
 DATE: 12/26/2012
 JOB NO.: 12-227
 SCALE: AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
CROSS SECTIONS
 CHAMPNEY BAY (NORTH)

Erickson Consulting Engineers, Inc.
 7201 Delainey Court
 Sarasota, FL 32420
 (941) 373-6460

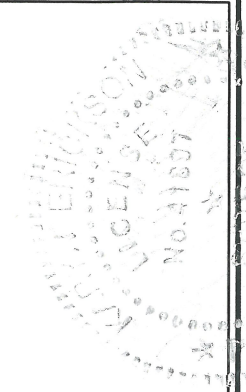
ECE
 Erickson Consulting Engineers

DRAWING NUMBER
10D
 SHEET 32 OF 43



LEGEND:

	DREDGE AREA
	4" OVERCUT ALLOWANCE
	EXISTING BOTTOM
	REVETMENT
	UPLAND
	BOX CUT
	DESIGN SLOPE



Kaym Erickson
Signature
KAYM M. ERICKSON, P.E.
Professional Engineer # 41887
Date

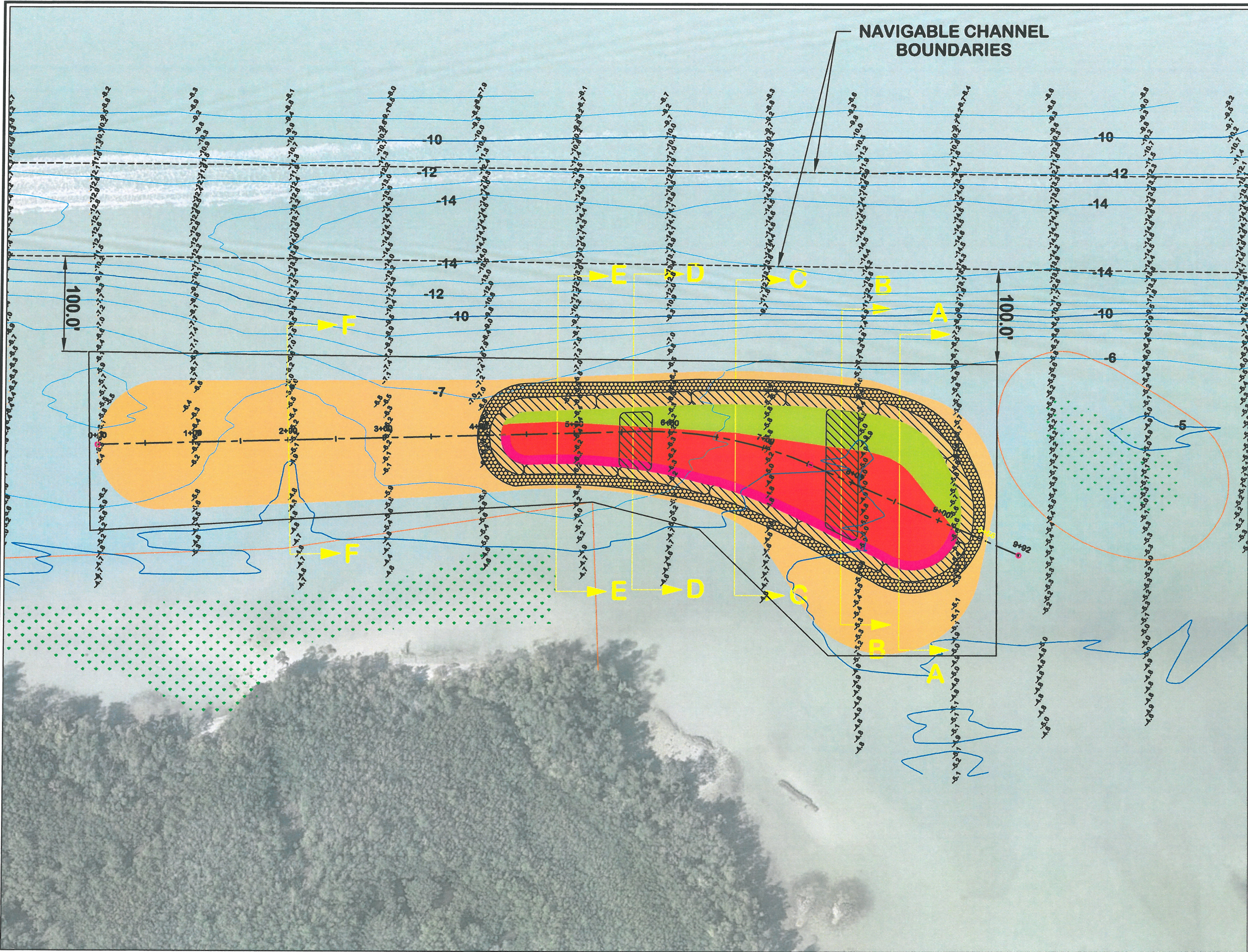
REV. NO.	DATE	DESCRIPTION

DESIGNED BY	CHECKED BY
DATE: 12/28/2012	DATE: 12/27
JOB NO. 12-227	SCALE: AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**CROSS SECTIONS
CHAMPNEY BAY (NORTH)**

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7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460
ECE
Erickson Consulting Engineers

DRAWING NUMBER
10E
SHEET 33 OF 43



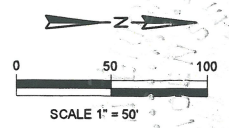
NAVIGABLE CHANNEL BOUNDARIES

- LEGEND:**
- BASELINE
 - 2+00 STATIONS
 - SPOT ELEVATION
 - 5 CONTOURS
 - 50 FT SEAGRASS BUFFER
 - CHANNEL BOUNDARY
 - SUBMERGED LANDS LEASE EASEMENT
 - PATCHY DISCONTINUOUS SEAGRASS AREA
 - SEDIMENT FILLED GEOTEXTILE CONTAINER
 - ROCK OVERLAY FOR WAVE PROTECTION
 - OYSTER REEF
 - COASTAL UPLAND
 - LOW WETLAND
 - PERMITTED HABITAT ISLAND AREA - SEE NOTE 4.

BASELINE STATION COORDINATE TABLE

STA	NORTHING	EASTING
0+00	645595'	398239'
1+00	645695'	398237'
2+00	645794'	398234'
3+00	645894'	398231'
4+00	645994'	398228'
5+00	646094'	398226'
5+68	646162'	398224'
6+00	646194'	398224'
7+00	646293'	398241'
7+52	646343'	398259'
8+00	646386'	398277'
9+00	646478'	398317'
9+56	646528'	398339'

- NOTES:**
1. HORIZONTAL COORDINATE SYSTEM IS BASED ON FLORIDA STATE PLAN, EAST ZONE, NAD83.
 2. HYDROGRAPHIC SURVEY BY HYATT SURVEY, MARCH 2012, NAVD 88.
 3. AERIAL FLIGHT 2011 (CITY OF NAPLES).
 4. THE EXTENT OF THE HABITAT ISLAND TO BE REFINED BASED UPON ACTUAL SITE CONDITIONS AND VOLUMES ENCOUNTERED DURING CONSTRUCTION. THE HABITAT ISLAND CONSTRUCTION MUST BE WHOLLY CONTAINED WITHIN THE PERMITTED AREA AND AS APPROVED BY ENGINEER.
 5. THE NAVIGABLE CHANNEL AS SHOWN WAS PROVIDED TO ECE BY USAGE AND IS BASED ON USACE EXAMINATION SURVEY FY12 10 & 12 FOOT PROJECT, DATE 12-13 JUNE, 2012.



Signature: *Joseph J. ...*
 Date: 1/17/13
 Professional Engineer # 41897

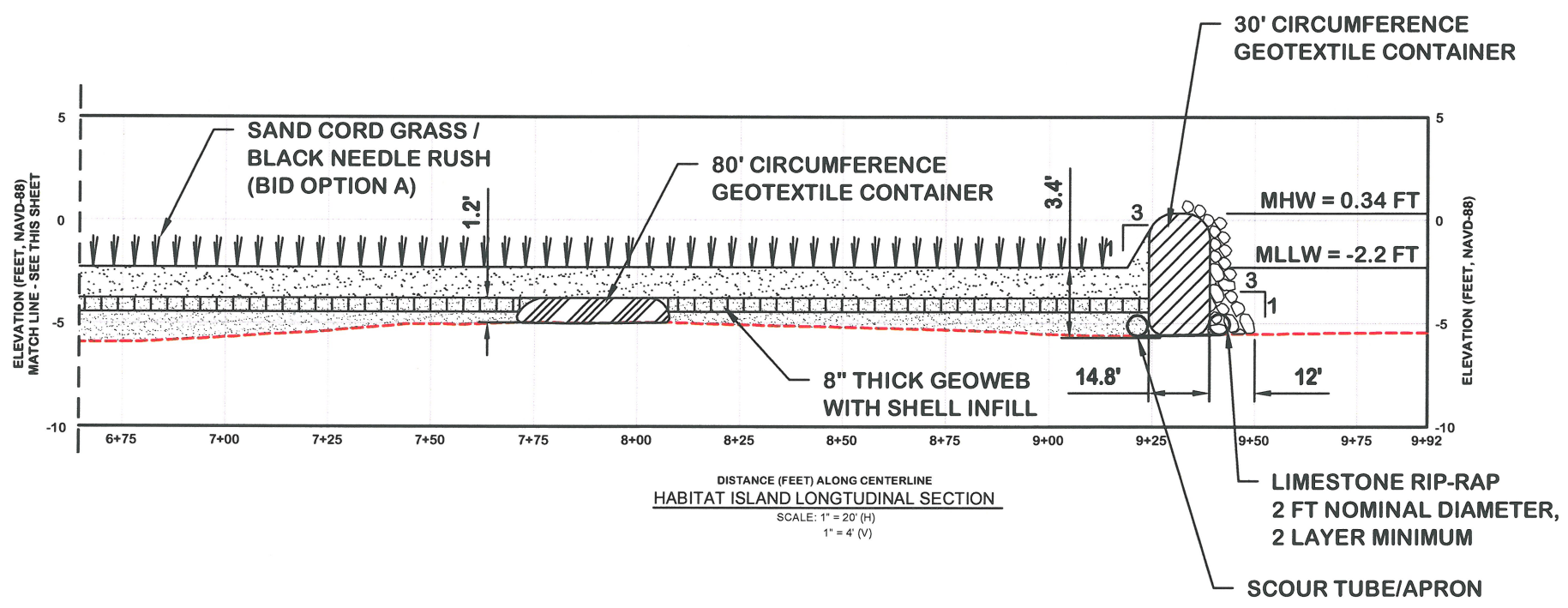
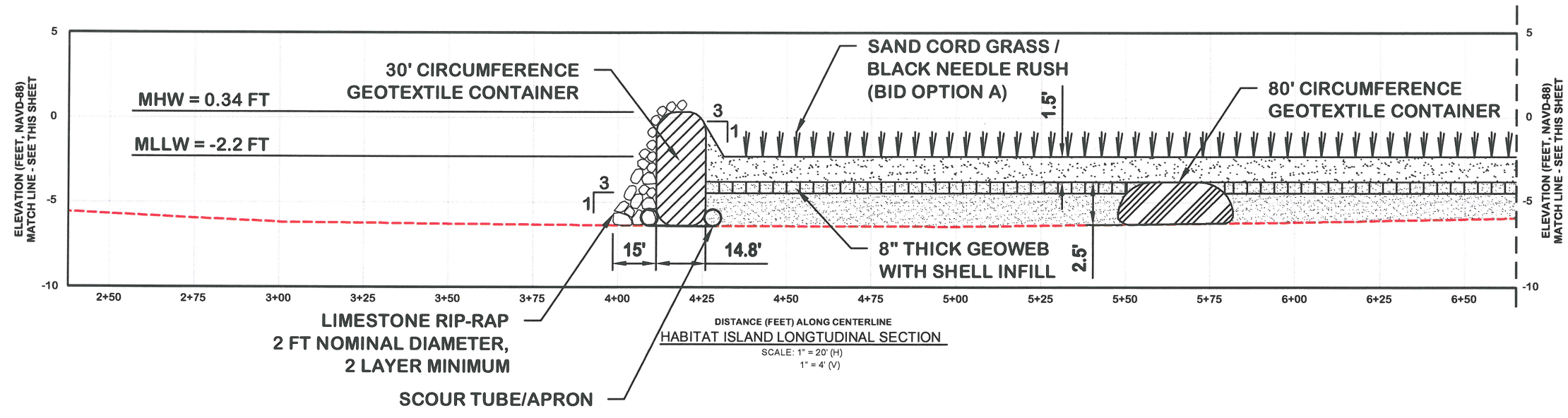
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


DESIGNED BY	CHECKED BY

DATE: 12/28/2012
 JOB NO.: 12-227
 SCALE: AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
**PLAN VIEW
 HABITAT ISLAND**

Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460



- LEGEND:**
-  CLASS I SEDIMENT (<20% FINES)
 -  CLASS II - III SEDIMENT (>20% FINES)
 -  OYSTER REEF



Signature: *Katelyn M. Erickson*
 Date: 1/17/13
 Katelyn M. Erickson, P.E.
 Professional Engineer # 12227


REV. NO.	DATE	BY	DESCRIPTION

DESIGNED BY	CHECKED BY

DATE: 12/28/2012
 JOB NO.: 12-227
 SCALE: AS NOTED

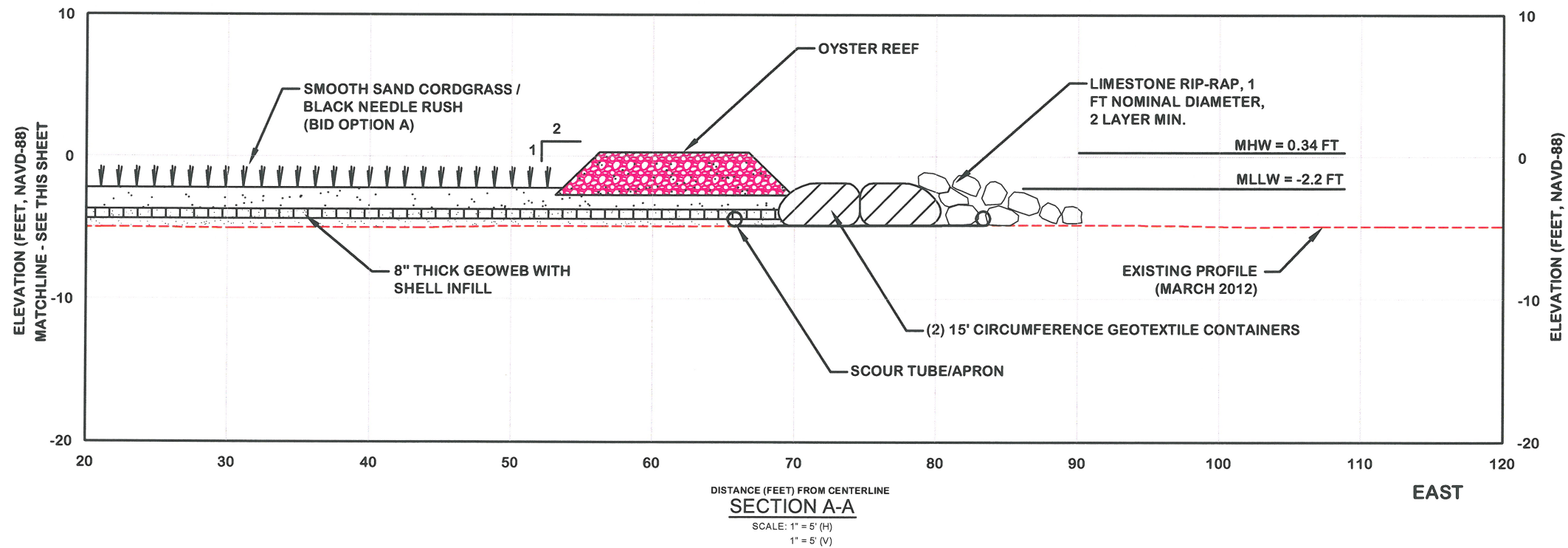
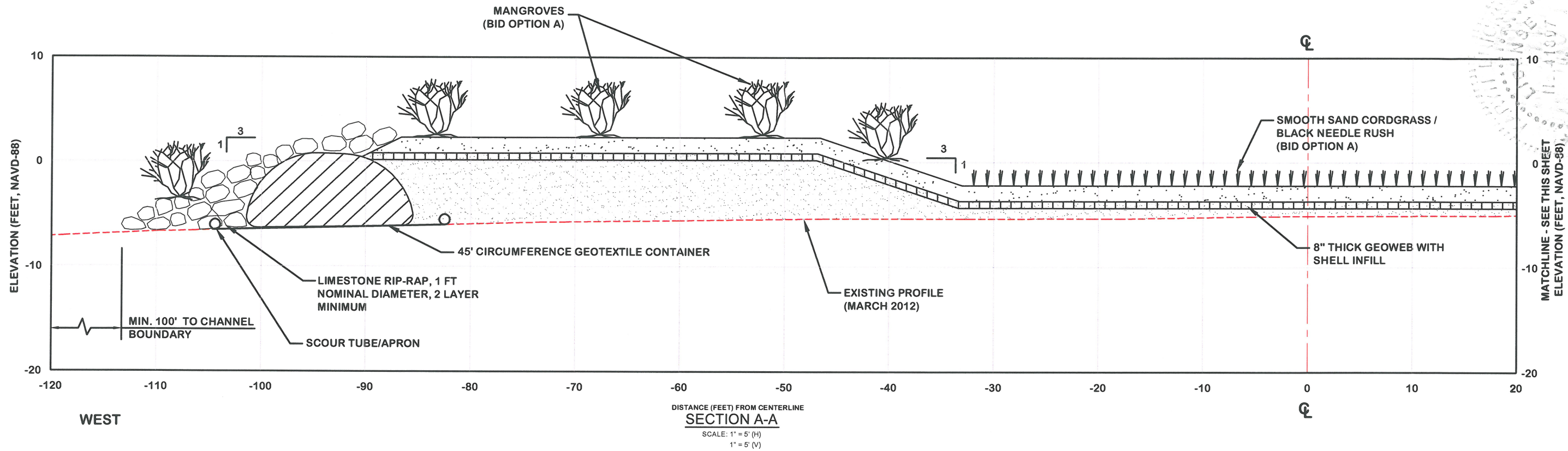
PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
**LONGITUDINAL CENTER LINE PROFILE
 HABITAT ISLAND**

Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460



DRAWING NUMBER
11B
 SHEET 35 OF 43

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LEGEND:

- CLASS I SEDIMENT (<20% FINES)
- CLASS II - III SEDIMENT (>20% FINES)
- OYSTER REEF

Signature
Professional Engineer # 41897

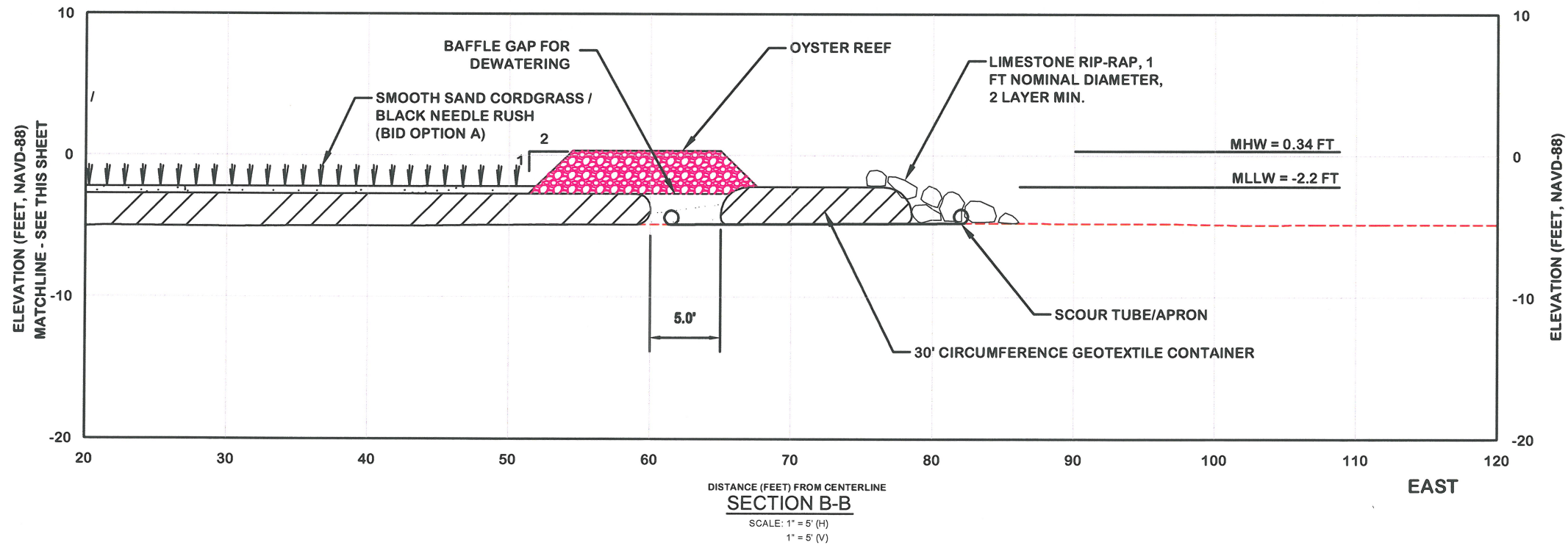
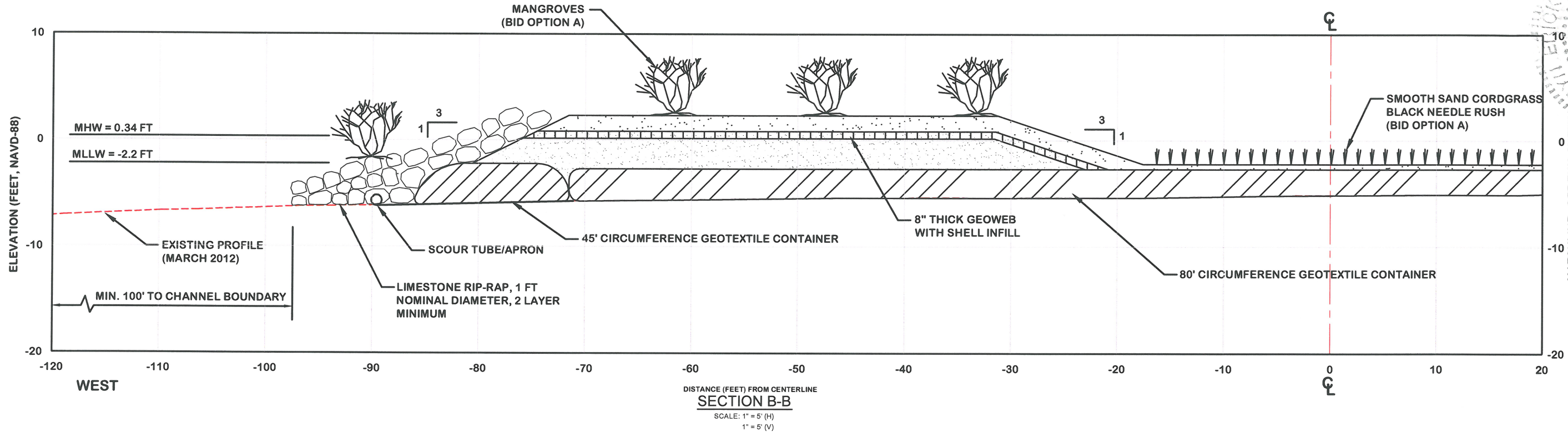
REV.	DATE	BY	DESCRIPTION

DESIGNED BY	DATE	CHECKED BY



PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
HABITAT ISLAND

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7201 Delaney Court
Sarasota, FL 34220
(941) 373-6460

DRAWING NUMBER
11C
SHEET 36 OF 43



LEGEND:

-  CLASS I SEDIMENT (<20% FINES)
-  CLASS II - III SEDIMENT (>20% FINES)
-  OYSTER REEF

Professional Seal: ERICKSON CONSULTING ENGINEERS, INC. No. 12277, State of Florida. Date: 1/17/13. Engineer: [Signature]

REV. NO.	DATE	BY	DESCRIPTION

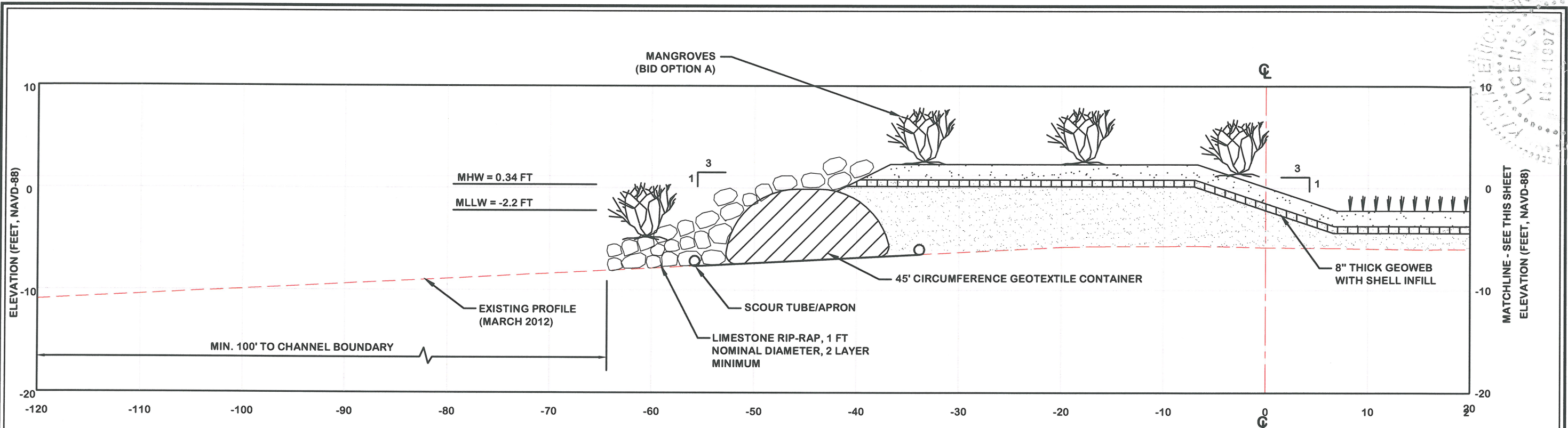
PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**CROSS SECTIONS
HABITAT ISLAND**

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

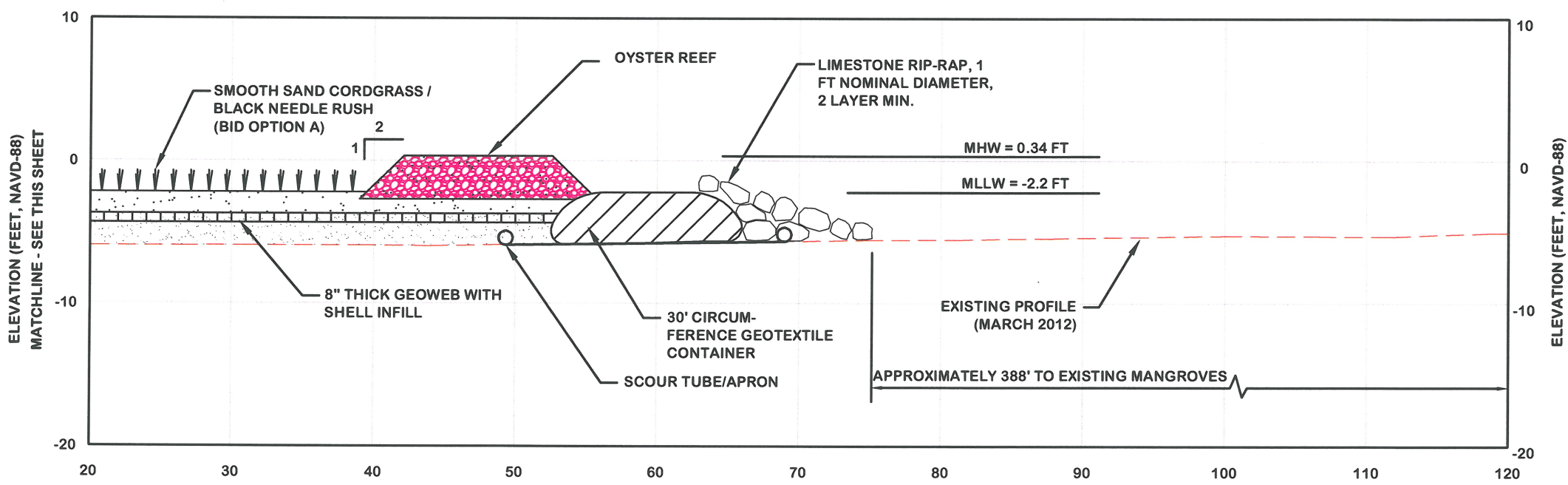
BCB
Erickson Consulting Engineers, Inc.

DRAWING NUMBER
11D
SHEET 37 OF 43

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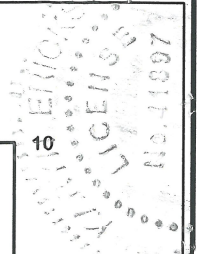


DISTANCE (FEET) FROM CENTERLINE
SECTION C-C
SCALE: 1" = 5' (H)
1" = 5' (V)



DISTANCE (FEET) FROM CENTERLINE
SECTION C-C
SCALE: 1" = 5' (H)
1" = 5' (V)

- LEGEND:**
- CLASS I SEDIMENT (<20% FINES)
 - CLASS II - III SEDIMENT (>20% FINES)
 - OYSTER REEF



Raymond H. Erickson
RAYMOND H. ERICKSON, P.E.
Professional Engineer # 11097

REV.	DATE	BY	CHKD.	BY	REMARKS

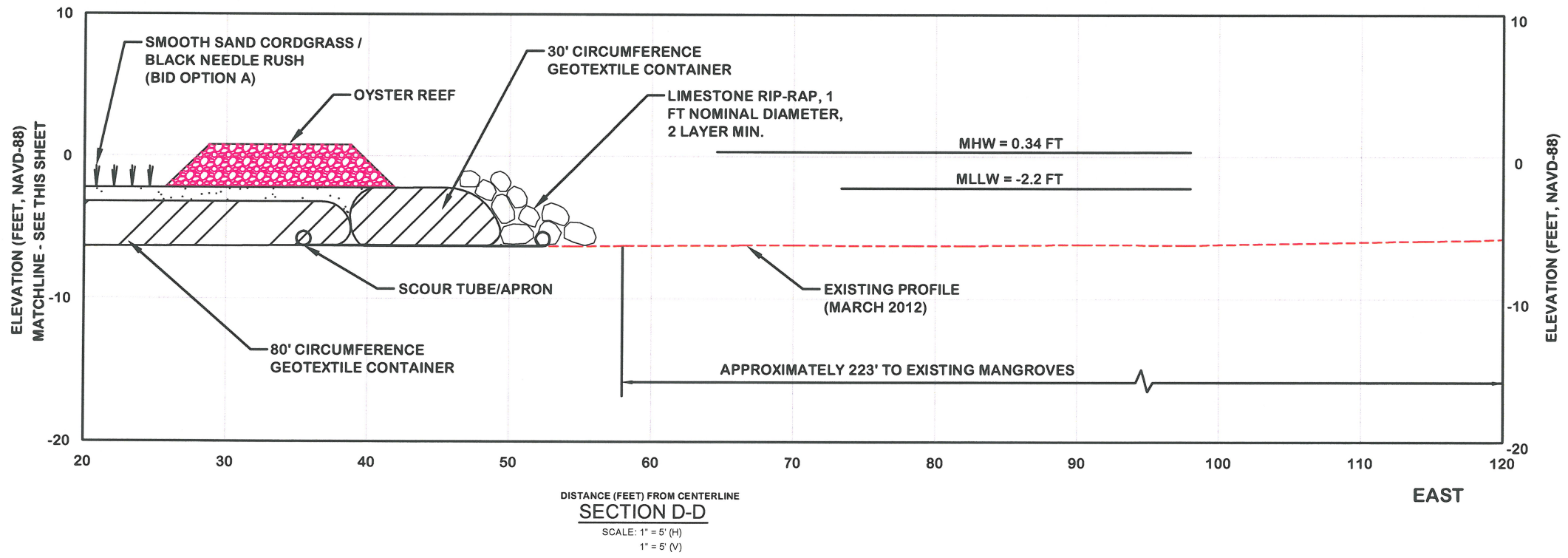
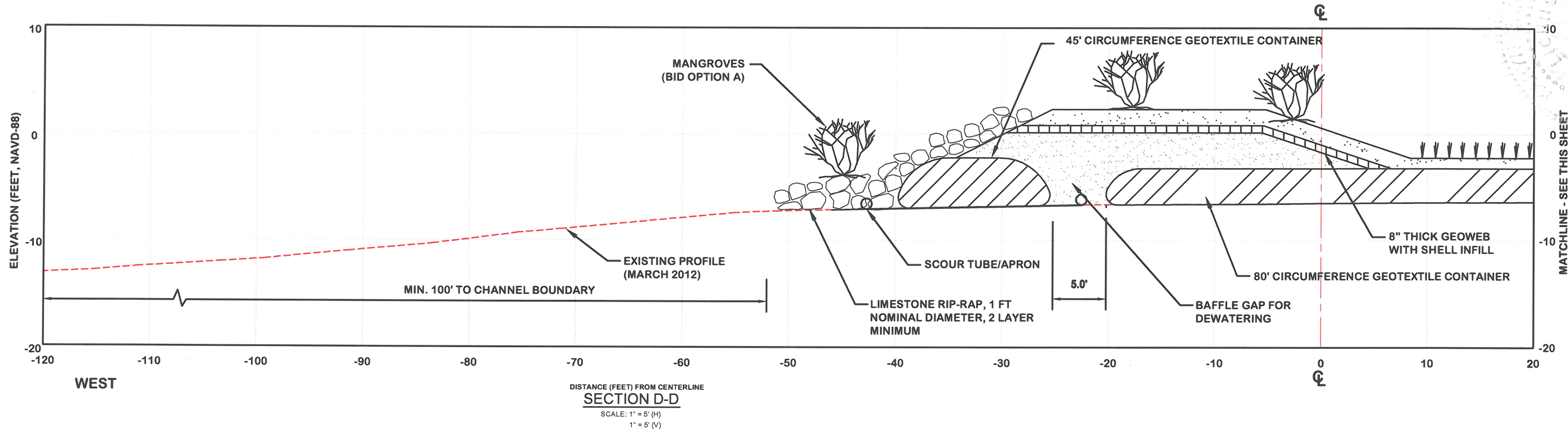
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DRAWN TO	JOB NO.		
	12-227		




PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
HABITAT ISLAND

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DRAWING NUMBER
11E
SHEET 38 OF 43

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- LEGEND:**
-  CLASS I SEDIMENT (<20% FINES)
 -  CLASS II - III SEDIMENT (>20% FINES)
 -  OYSTER REEF

Handwritten signature and date: 1/13
 ERICKSON CONSULTING ENGINEERS, INC.
 NATHAN ERICKSON, P.E.
 Professional Engineer # 41897

REV. NO.	DATE	BY	CHKD. BY	REMARKS

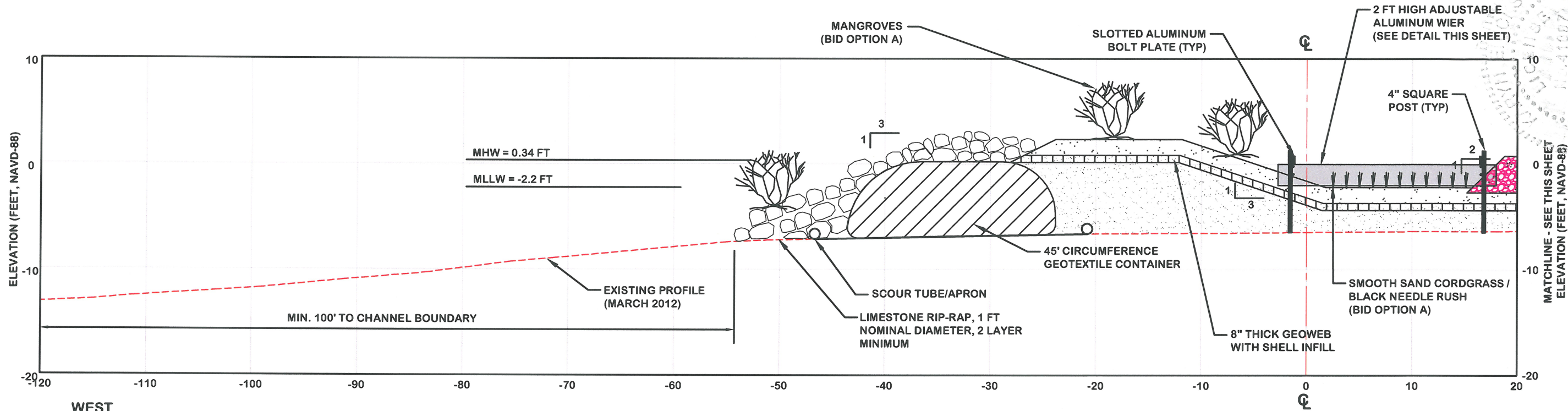
DESIGNED BY	CHECKED BY	DATE	JOB NO.	SCALE
BC	CP	12/28/2012	12-227	AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA
**CROSS SECTIONS
 HABITAT ISLAND**

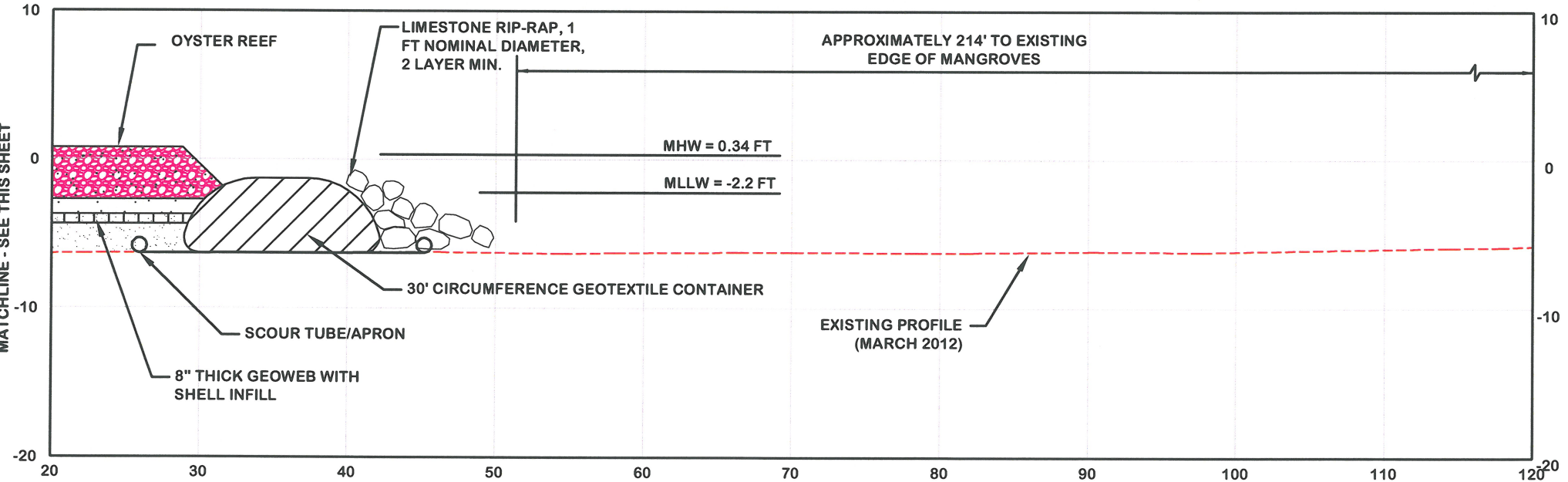
Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 34220
 (941) 373-6460

DRAWING NUMBER
11F
 SHEET 39 OF 43

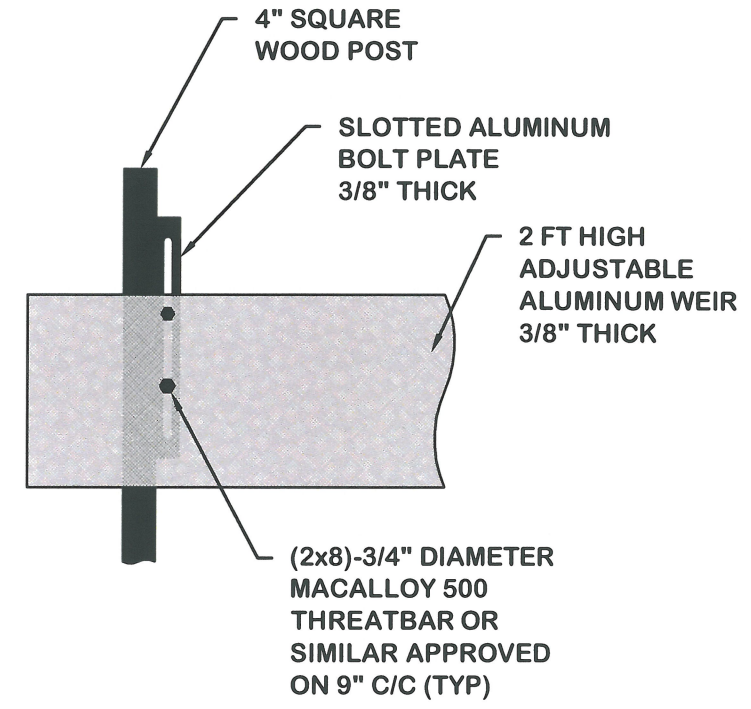
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SECTION E-E
SCALE: 1" = 5' (H)
1" = 5' (V)



SECTION E-E
SCALE: 1" = 5' (H)
1" = 5' (V)



ADJUSTABLE ALUMINUM WEIR DETAIL
SCALE: 1" = 1"

- LEGEND:**
- CLASS I SEDIMENT (<20% FINES)
 - CLASS II - III SEDIMENT (>20% FINES)
 - OYSTER REEF

Professional Engineer # 4087
Date: 1/17/13

REV.	DATE	BY	CHKD.	REMARKS

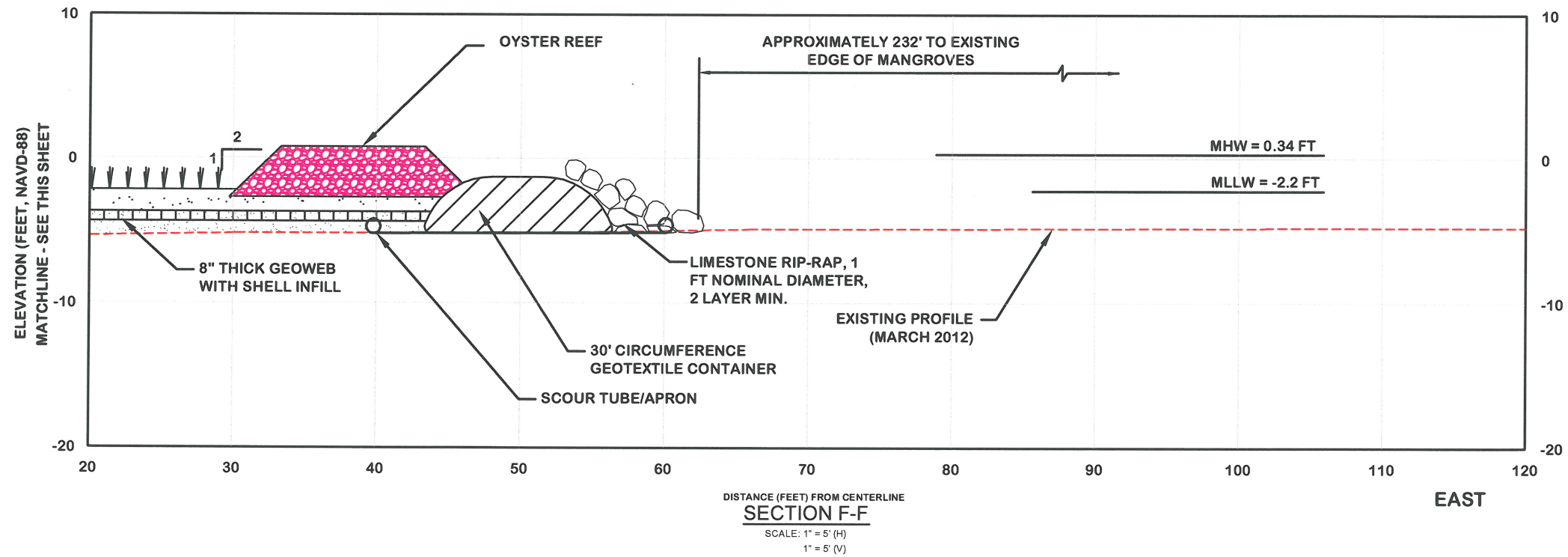
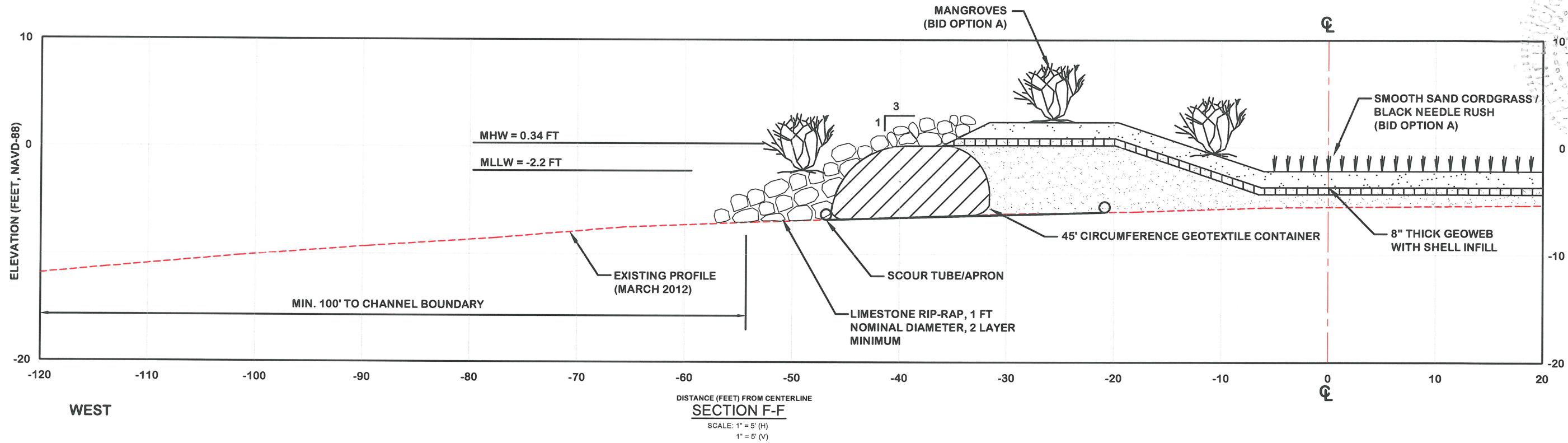
DESIGNED BY	DATE: 12/28/2012
CHECKED BY	JOB NO. 12-227
DRAWN BY	SCALE: AS NOTED




PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
CROSS SECTIONS
HABITAT ISLAND

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DRAWING NUMBER
11G
SHEET 40 OF 43

Z:\CADD_Graphics\US Projects\12-227_Naples - Port Royal Canals Construction\11_Habitat Island.dwg Jan 16, 2013 4:37pm



- LEGEND:**
-  CLASS I SEDIMENT (<20% FINES)
 -  CLASS II - III SEDIMENT (>20% FINES)
 -  OYSTER REEF

Signature
Professional Engineer # 41897

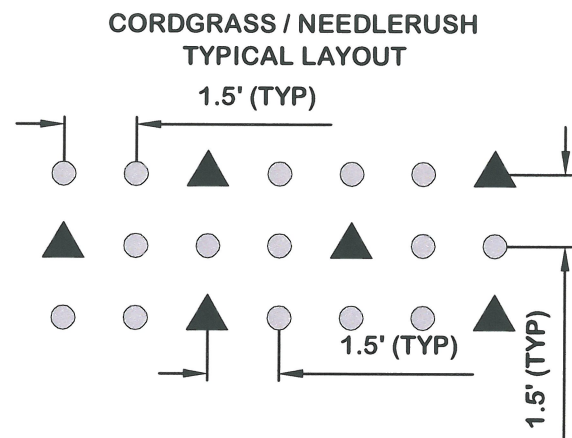
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DESIGNED BY	DRWN. BY	CHECKED BY
DATE: 12/26/012	JOB NO. 12-227	SCALE: AS NOTED

PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**CROSS SECTIONS
HABITAT ISLAND**

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Sarasota, FL 32420
(941) 373-6460

DRAWING NUMBER
11H
SHEET 41 OF 43



PLAN VIEW
SCALE: 1"=2'

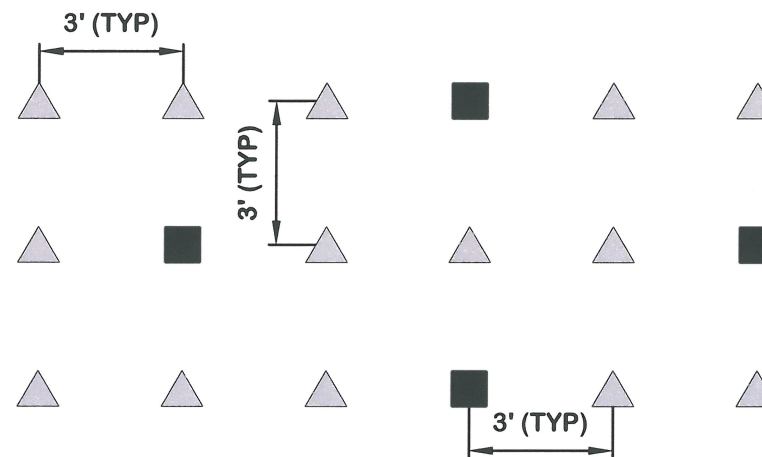
NOTES:

1. PLANT SPACING @ 18" ON CENTER.
2. PLANTS TO BE INSTALLED MANUALLY FROM PRE-FERTILIZED CONTAINERS.

LEGEND

- 4 INCH LINER CORDGRASS/ NEEDLERUSH PLANTS
- ▲ 1 GALLON CORDGRASS/ NEEDLERUSH PLANTS

MANGROVE PLANTINGS TYPICAL LAYOUT



PLAN VIEW
SCALE: 1"=2'

NOTES:

1. PLANT SPACING @ 3 FT ON CENTER.
2. PLANTS TO BE INSTALLED MANUALLY FROM PRE-FERTILIZED CONTAINERS.

LEGEND

- ▲ 1 GALLON MANGROVE PLANTS
- 3 GALLON MANGROVE PLANTS

ESTIMATED PLANT QUANTITIES

Plant Name	Size	Spacing (ft)	Area (sf)	Quantity
Red & Black Mangrove (Rhizophora mangle) (avicennia germinans)	1 gallon	3	14,650	2,500
	3 gallon	3	14,650	700
Smooth Cordgrass (Spartina alterniflora)	4" liner	1.5	24,390	7,500
	1 gallon	1.5	24,390	2,800
Black Needlerush (Juncus roemerianus)	4" liner	1.5	24,390	7,500
	1 gallon	1.5	24,390	2,800

NOTE:

QUANTITIES BASED ON SIZE OF HABITAT ISLAND AS SHOWN ON SHEET 11A.



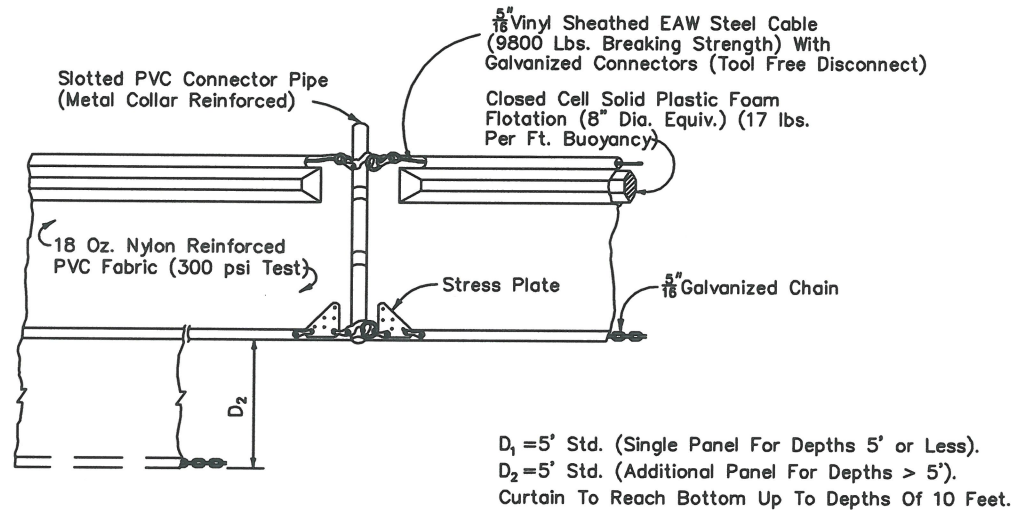
W.C. M. JOHNSON
Professional Engineer & 4497

REV. NO.	DATE	BY	CHKD. BY	REMARKS

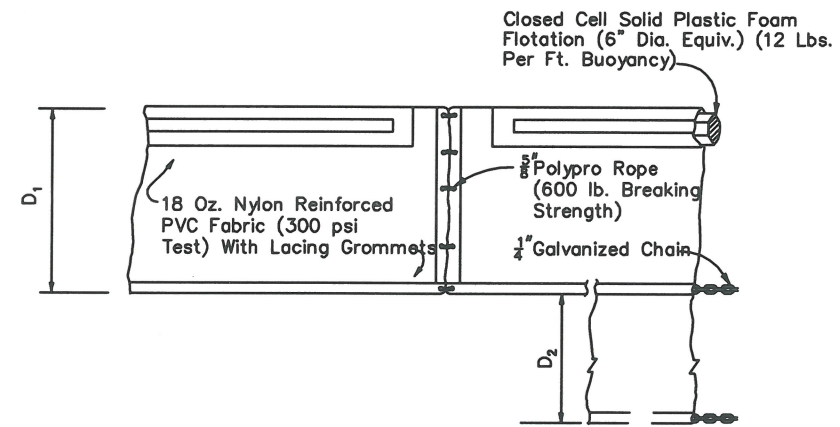
PORT ROYAL CANALS
CITY OF NAPLES, FLORIDA
**HABITAT ISLAND PLANTING
DETAILS (BID OPTION A)**

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 34220
(941) 373-6460

DRAWING NUMBER
111
SHEET 42 OF 43



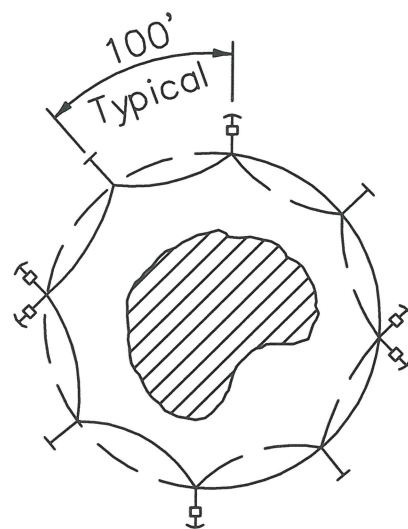
TYPE II



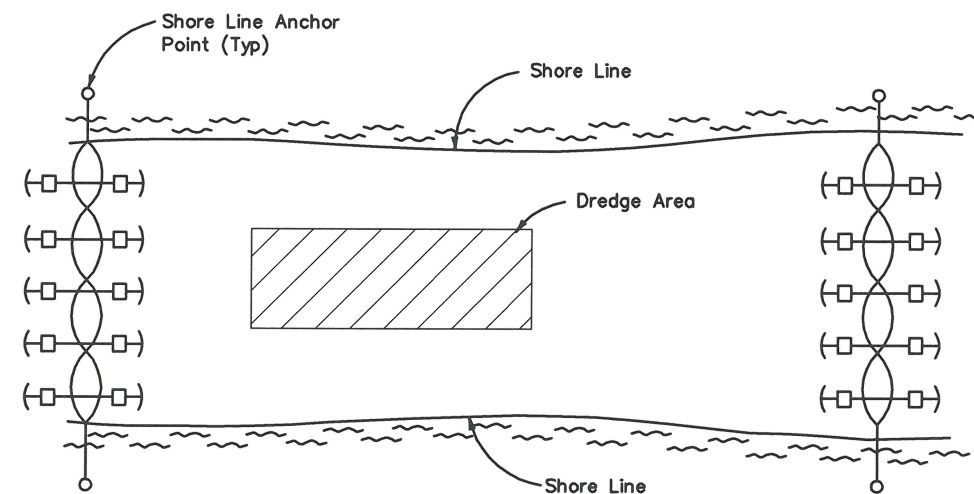
TYPE I

D₁ = 5' Std. (Single Panel For Depths 5' or Less).
 D₂ = 5' Std. (Additional Panel For Depths > 5').
 Curtain To Reach Bottom Up To Depths Of 10 Feet.

FLOATING TURBIDITY BARRIERS



OPEN WATER







CANAL INTERIOR DETAIL

GENERAL NOTES:

1. Turbidity barriers to be used in all permanent bodies of water regardless of water depth.
2. Type I floating turbidity barriers may be used when dredging canal interiors.
3. Type II floating turbidity barriers are required when dredging or filling near canal entrances and the habitat island size (e.g. open water areas).
4. Components of type I and II may be similar or identical to proprietary designs.
5. Number and spacing of anchors dependent on current velocities.
6. Deployment of barriers may vary to accommodate construction operations.
7. Navigation may require segmenting barrier during construction operations.

LEGEND

-  Dredge Or Fill Area
-  Mooring Buoy w/Anchor
-  Anchor
-  Barrier Movement Due To Current Action

Z:\CADD_Graphics\US Projects\12-227_Naples - Port Royal Canals\Construction\12_Turbidity Control Plan.dwg Jan 16, 2013 - 4:37pm

Professional Engineer & Surveyor
 KATHY H. HARRISON, P.E.
 Date: 1/17/13

REV. NO.	DATE	BY	CHKD BY	REMARKS

DESIGNED: DRW: TO: CP:
 DATE: 12/20/12 JOB NO.: 12-227 SCALE: AS NOTED

PORT ROYAL CANALS
 CITY OF NAPLES, FLORIDA

TURBIDITY CONTROL PLAN

Erickson Consulting Engineers, Inc.
 7201 Delaney Court
 Sarasota, FL 32420
 (941) 373-6460

ECE
 Environmental Consulting Engineers

DRAWING NUMBER
12
 SHEET 43 OF 43