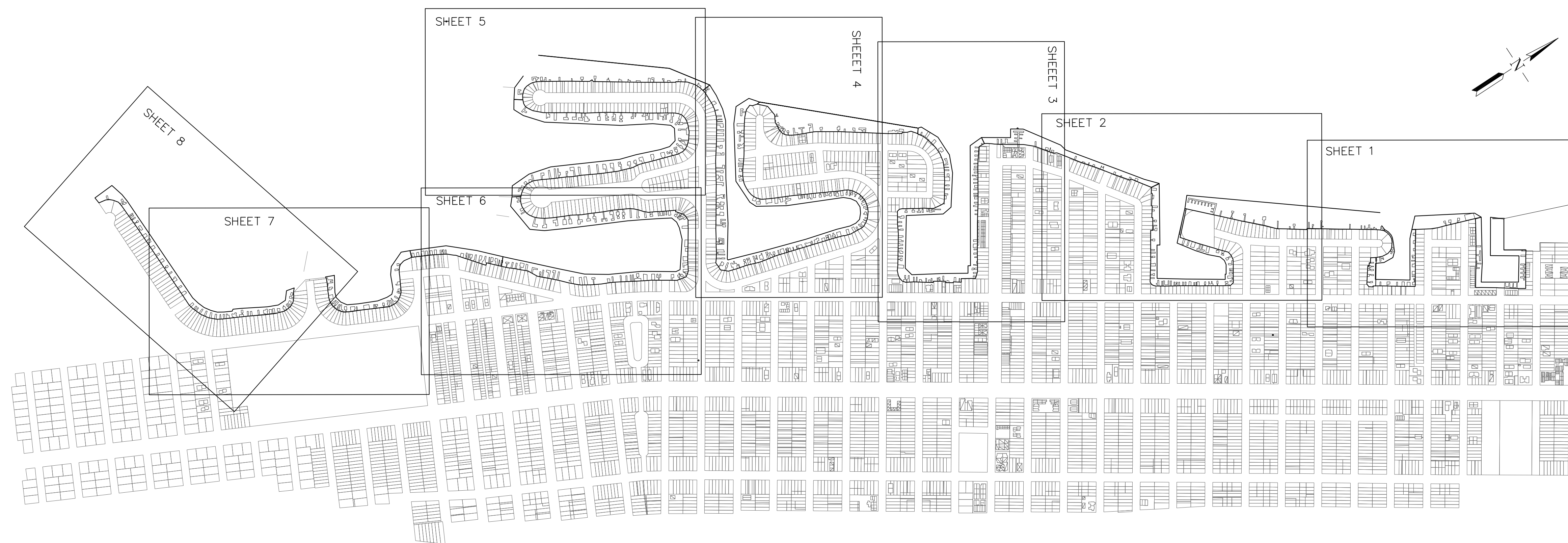


# KEY MAP

## STONE HARBOR MAINTENANCE DREDGING

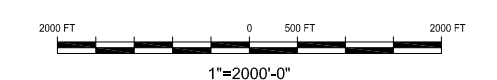


### GENERAL NOTES:

1. ALL SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER. MEAN LOWER LOW WATER IS 2.42' BELOW NAVD '88.
2. ALL SOUNDINGS ARE NEGATIVE UNLESS SHOWN WITH A PLUS (+).
3. INnersPACE 448 PRECISION SURVEY FATHOMETER USED FOR SOUNDINGS.
4. THE STARLINK DNAV 212G/MBA-2 GPS SYSTEM USED FOR POSITIONING.
5. THE HYPACK SOFTWARE USED FOR PROCESSING.
6. HYDROGRAPHIC SURVEY DATA COLLECTED BY HYDROGRAPHIC SURVEYS OF SEWELL, NJ ON 04/23/15, AND 05/01/15 AND CAN ONLY REPRESENT THE CONDITIONS AT THAT TIME.

### TIDAL DIAGRAM

MEAN HIGHER HIGH WATER.....	4.57'
MEAN HIGH WATER.....	4.17'
N.A.V.D. '88.....	2.42'
N.G.V.D. '29.....	1.11'
MEAN LOW WATER.....	0.16'
MEAN LOWER LOW WATER.....	0.00'



REV	DATE	DESCRIPTION	BY	CHK

CLIENT

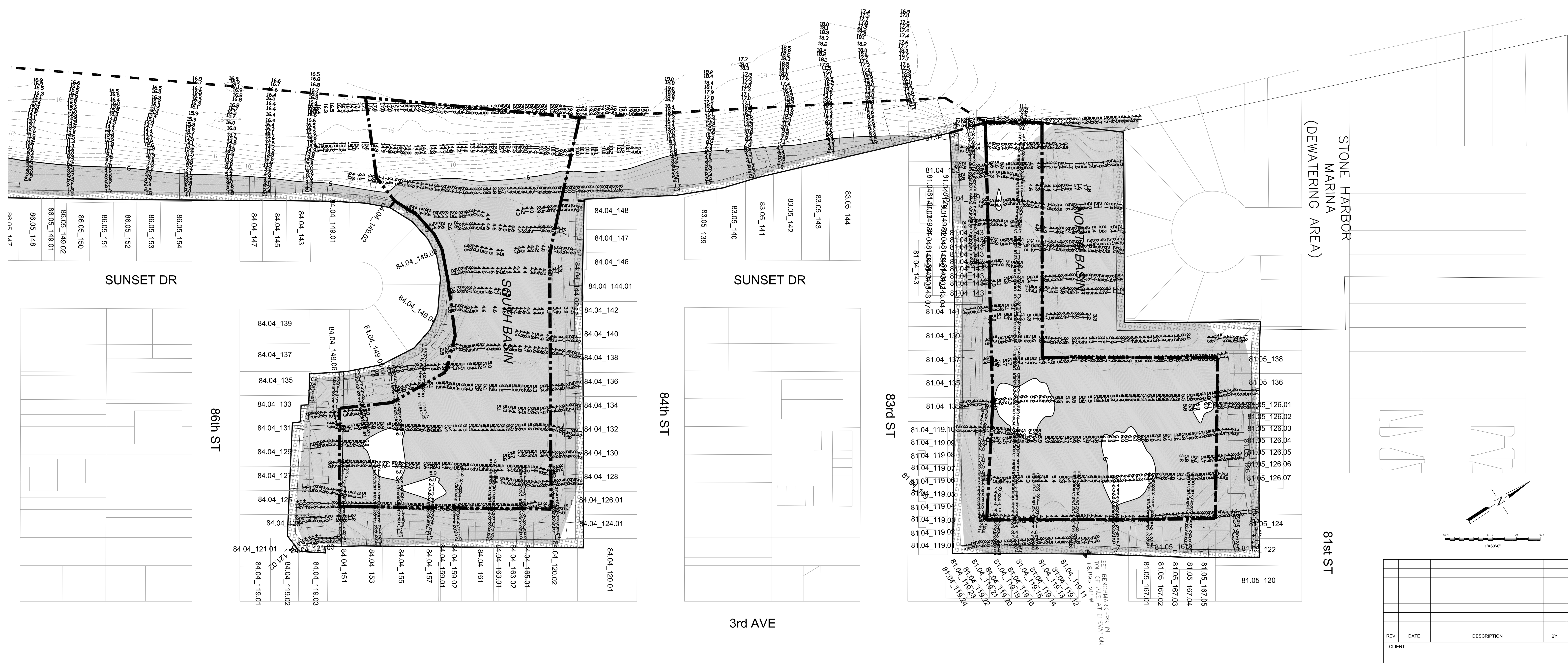
CONSULTANT  
**COWI** Marine North America  
 20 E. Clementon Road, Suite 201N  
 Gibbsboro, NJ 08026  
 Website: www.cowi-na.com Tel.: 856.248.1200 Fax: 856.248.1206

PROJECT TITLE  
**STONE HARBOR MAINTENANCE DREDGING**

CONDITION SURVEY  
 DRAWING TITLE  
**KEY MAP**

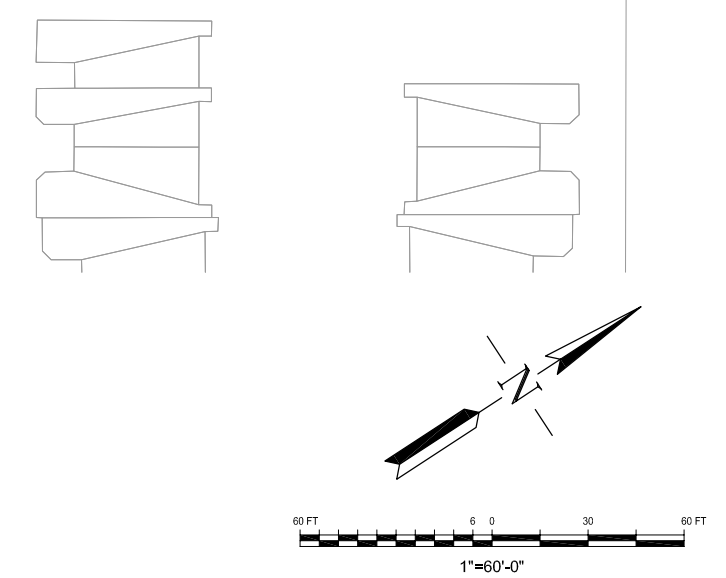
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DRAWN NIF	CHECKED JOME	DATE 05/15/15
JOB NO. A067772	DRAWING NO. G000	REV.

FILE LOCATION: C:\USERS\WPD\DESKTOP\A067772\CA067772-G000-0107.DWG



- NOTES:**
- HYDROGRAPHIC SURVEY DATA COLLECTED BY HYDROGRAPHIC SURVEYS OF SEWELL, NJ BETWEEN 04/23/2015 AND 05/01/2015 AND CAN ONLY REPRESENT THE CONDITIONS AT THE TIME OF SURVEY.
  - NO DREDGING SHALL OCCUR WITHIN 10 FEET OF THE BULKHEAD.
  - NO DREDGING SHALL OCCUR WITHIN 25 FEET OF WETLANDS.
  - ALL MAINTENANCE DREDGING SHALL HAVE 3:1 (H:V) SIDE SLOPE FROM LIMITS OF DREDGING AND BUFFER AREAS.
  - ALL PROPERTY BOUNDARIES AND FEATURES HAVE BEEN PRODUCED FROM VARIOUS SOURCES AND IS TO BE USED FOR REFERENCE PURPOSES ONLY. THE DATA IS FOR INFORMATIONAL PURPOSES ONLY AND REPRESENTS ONLY THE APPROXIMATE RELATIVE LOCATION OF PROPERTY BOUNDARIES AND FEATURES.
  - SLIP DREDGING AREA EXTENDS BETWEEN BOROUGH DREDGING LIMITS AND BULKHEAD.

- LEGEND:**
- DEPTH LESS THAN 6 FT
  - WETLAND VEGETATION (AS OF MAY 2015)
  - BUFFER AREA (10 FT FROM BULKHEAD, 25 FT FROM WETLANDS)
  - PARCEL
  - BULKHEAD
  - BOROUGH DREDGING LIMIT
  - SLIP DREDGING LIMIT
  - DESIGN DREDGE DEPTH (6 FT MLLW CONTOUR)
  - CONTOURS (1 FT INTERVAL)



REV	DATE	DESCRIPTION	BY	CHK

CLIENT

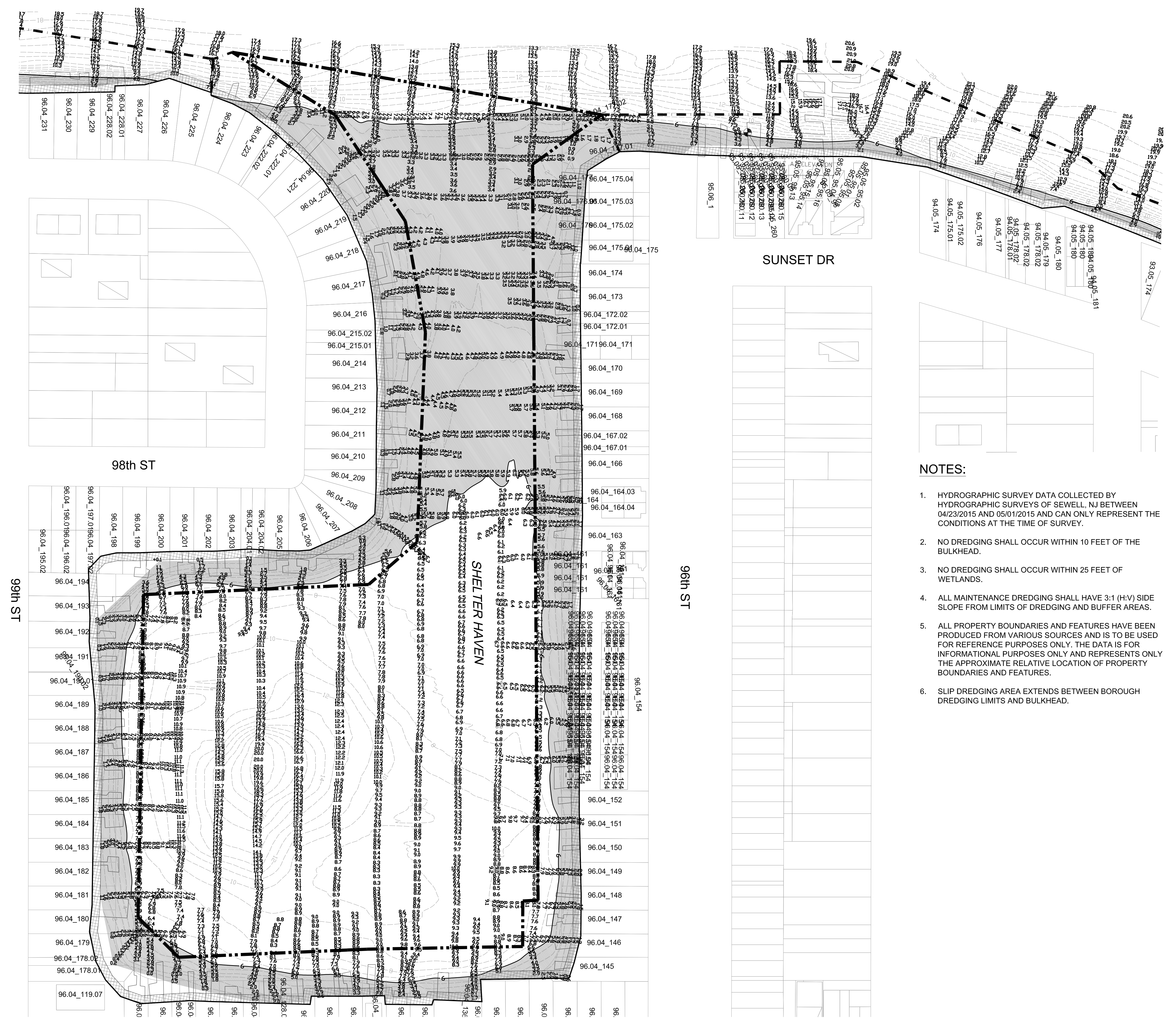
CONSULTANT  
**COWI** Marine North America  
 20 E. Clementon Road, Suite 201N  
 Gibbstown, NJ 08026  
 Website: www.cowi-na.com Tel: 856.248.1200 Fax: 856.248.1206

PROJECT TITLE  
**STONE HARBOR MAINTENANCE DREDGING**

CONDITION SURVEY  
 DRAWING TITLE  
**SOUTH BASIN AND NORTH BASIN SHEET 1 OF 8**

SCALE 1" = 60'-0"	DESIGNED	APPROVED
DRAWN NIF	CHECKED JOME	DATE 05/15/15
JOB NO. A067772	DRAWING NO. G100	REV.

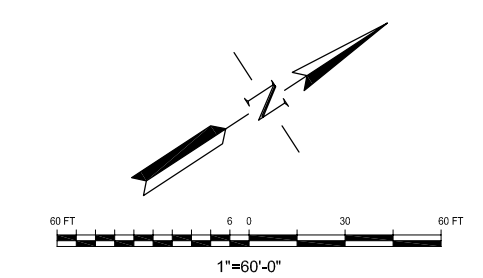




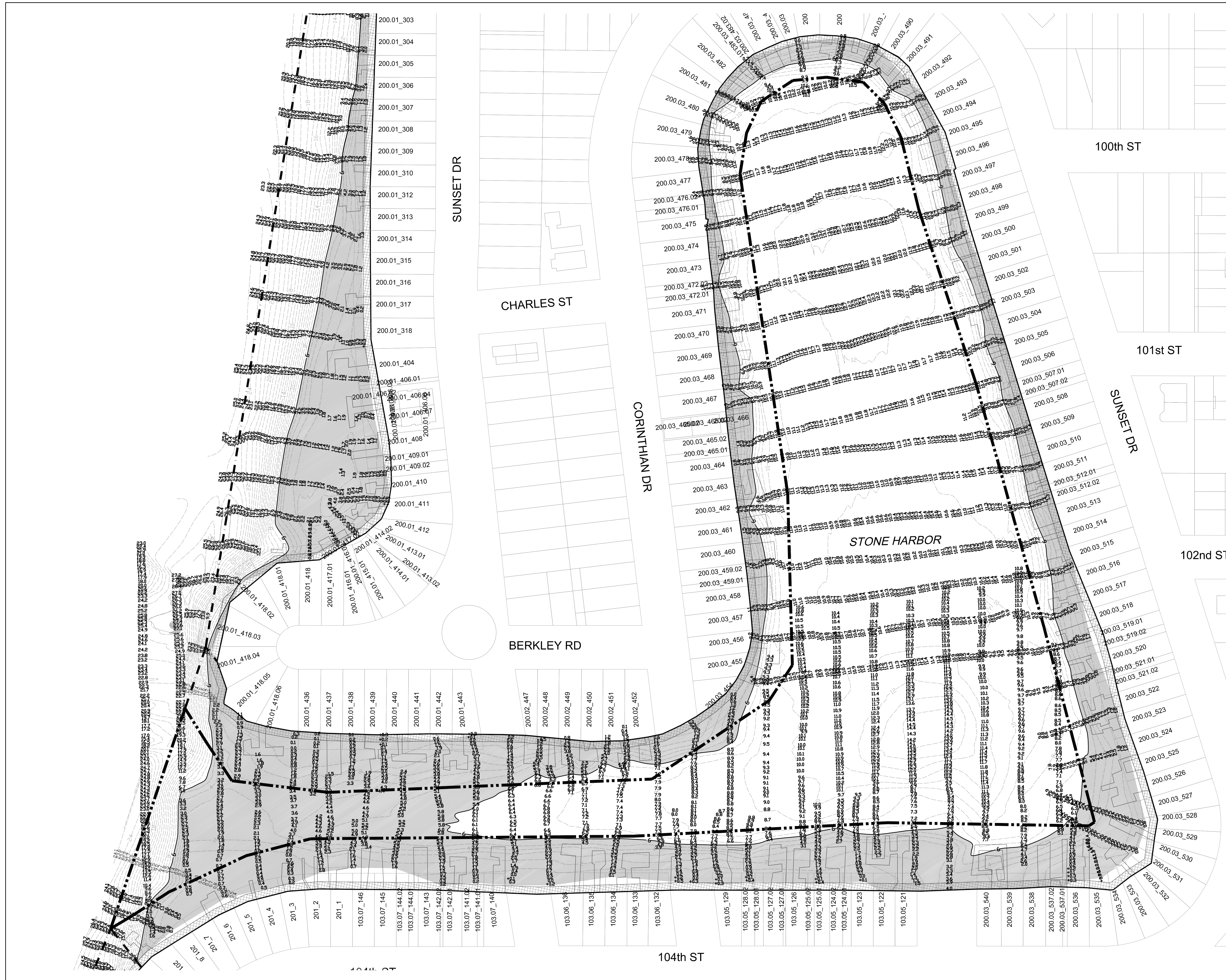
- LEGEND:**
- DEPTH LESS THAN 6 FT
  - WETLAND VEGETATION (AS OF MAY 2015)
  - BUFFER AREA (10 FT FROM BULKHEAD, 25 FT FROM WETLANDS)
  - PARCEL
  - BULKHEAD
  - BOROUGH DREDGING LIMIT
  - SLIP DREDGING LIMIT
  - DESIGN DREDGE DEPTH (6 FT MLLW CONTOUR)
  - CONTOURS (1 FT INTERVAL)

**NOTES:**

1. HYDROGRAPHIC SURVEY DATA COLLECTED BY HYDROGRAPHIC SURVEYS OF SEWELL, NJ BETWEEN 04/23/2015 AND 05/01/2015 AND CAN ONLY REPRESENT THE CONDITIONS AT THE TIME OF SURVEY.
2. NO DREDGING SHALL OCCUR WITHIN 10 FEET OF THE BULKHEAD.
3. NO DREDGING SHALL OCCUR WITHIN 25 FEET OF WETLANDS.
4. ALL MAINTENANCE DREDGING SHALL HAVE 3:1 (H:V) SIDE SLOPE FROM LIMITS OF DREDGING AND BUFFER AREAS.
5. ALL PROPERTY BOUNDARIES AND FEATURES HAVE BEEN PRODUCED FROM VARIOUS SOURCES AND IS TO BE USED FOR REFERENCE PURPOSES ONLY. THE DATA IS FOR INFORMATIONAL PURPOSES ONLY AND REPRESENTS ONLY THE APPROXIMATE RELATIVE LOCATION OF PROPERTY BOUNDARIES AND FEATURES.
6. SLIP DREDGING AREA EXTENDS BETWEEN BOROUGH DREDGING LIMITS AND BULKHEAD.



REV	DATE	DESCRIPTION	BY	CHK
CLIENT				
<p><b>CONSULTANT</b></p> <p style="font-size: 24pt; font-weight: bold; margin: 0;">COWI Marine North America</p> <p style="font-size: 10pt; margin: 0;">20 E. Clementon Road, Suite 201N Gibbsboro, NJ 08026 Website: www.cowi-na.com Tel.: 856.248.1200 Fax: 856.248.1206</p>				
<p><b>PROJECT TITLE</b></p> <p style="font-weight: bold; margin: 0;">STONE HARBOR MAINTENANCE DREDGING</p>				
<p><b>CONDITION SURVEY</b></p> <p><b>DRAWING TITLE</b></p> <p style="font-weight: bold; margin: 0;">SHELTER HAVEN SHEET 3 OF 8</p>				
SCALE 1" = 60'-0"		DESIGNED		APPROVED
DRAWN NIF		CHECKED JOME		DATE 05/15/15
JOB NO. A067772		DRAWING NO. G102		REV.

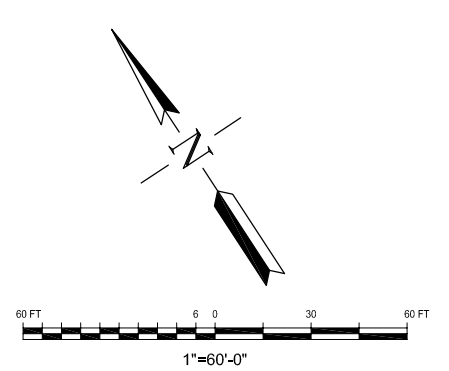


**NOTES:**

1. HYDROGRAPHIC SURVEY DATA COLLECTED BY HYDROGRAPHIC SURVEYS OF SEWELL, NJ BETWEEN 04/23/2015 AND 05/01/2015 AND CAN ONLY REPRESENT THE CONDITIONS AT THE TIME OF SURVEY.
2. NO DREDGING SHALL OCCUR WITHIN 10 FEET OF THE BULKHEAD.
3. NO DREDGING SHALL OCCUR WITHIN 25 FEET OF WETLANDS.
4. ALL MAINTENANCE DREDGING SHALL HAVE 3:1 (H:V) SIDE SLOPE FROM LIMITS OF DREDGING AND BUFFER AREAS.
5. ALL PROPERTY BOUNDARIES AND FEATURES HAVE BEEN PRODUCED FROM VARIOUS SOURCES AND IS TO BE USED FOR REFERENCE PURPOSES ONLY. THE DATA IS FOR INFORMATIONAL PURPOSES ONLY AND REPRESENTS ONLY THE APPROXIMATE RELATIVE LOCATION OF PROPERTY BOUNDARIES AND FEATURES.
6. SLIP DREDGING AREA EXTENDS BETWEEN BOROUGH DREDGING LIMITS AND BULKHEAD.

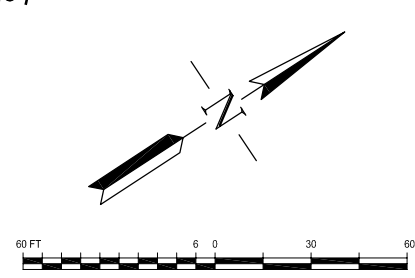
**LEGEND:**

- DEPTH LESS THAN 6 FT
- WETLAND VEGETATION (AS OF MAY 2015)
- BUFFER AREA (10 FT FROM BULKHEAD, 25 FT FROM WETLANDS)
- PARCEL
- BULKHEAD
- BOROUGH DREDGING LIMIT
- SLIP DREDGING LIMIT
- DESIGN DREDGE DEPTH (6 FT MLLW CONTOUR)
- CONTOURS (1 FT INTERVAL)



REV	DATE	DESCRIPTION	BY	CHK
CLIENT				
CONSULTANT <div style="display: flex; align-items: center;"> <div style="font-size: 2em; font-weight: bold; margin-right: 5px;">COWI</div> <div> <p><b>Marine North America</b></p> <p>20 E. Clementon Road, Suite 201N              Gibbstown, NJ 08026              Tel.: 856.248.1200              Fax: 856.248.1206</p> </div> </div> <p>Website: www.cowi-na.com</p>				
PROJECT TITLE <b>STONE HARBOR MAINTENANCE DREDGING</b>				
CONDITION SURVEY				
DRAWING TITLE <b>STONE HARBOR AND OUTER SLIPS</b>				
SHEET 4 OF 8				
SCALE 1" = 60'-0"		DESIGNED	APPROVED	
DRAWN NIF		CHECKED JOME	DATE 05/15/15	
JOB NO. A067772	DRAWING NO. G103			REV.

FILE LOCATION: C:\USERS\WDP\DRAWING\772\A067772-G103-DWG



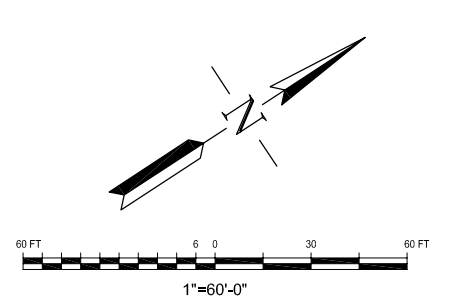
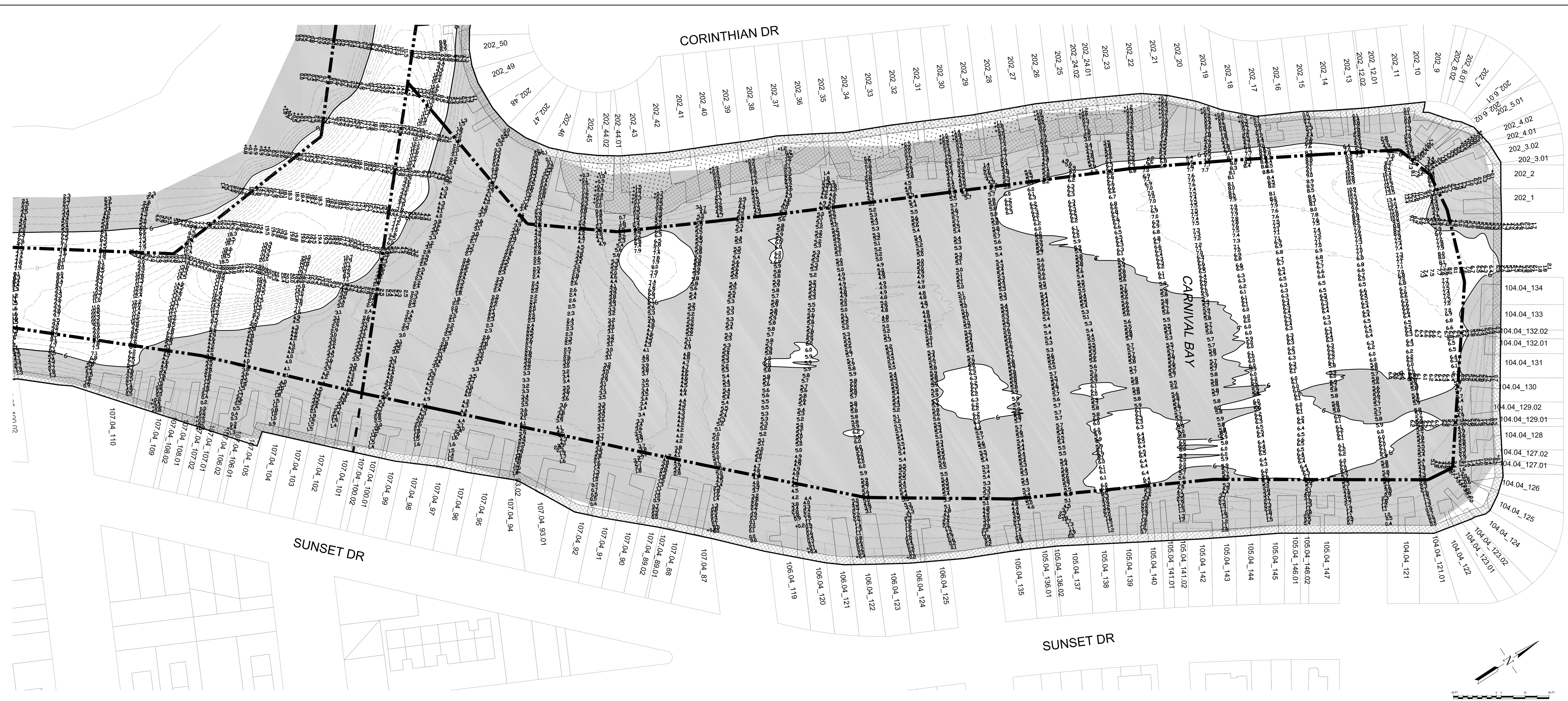
**NOTES:**

1. HYDROGRAPHIC SURVEY DATA COLLECTED BY HYDROGRAPHIC SURVEYS OF SEWELL, NJ BETWEEN 04/23/2015 AND 05/01/2015 AND CAN ONLY REPRESENT THE CONDITIONS AT THE TIME OF SURVEY.
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3. NO DREDGING SHALL OCCUR WITHIN 25 FEET OF WETLANDS.
4. ALL MAINTENANCE DREDGING SHALL HAVE 3:1 (H:V) SIDE SLOPE FROM LIMITS OF DREDGING AND BUFFER AREAS.
5. ALL PROPERTY BOUNDARIES AND FEATURES HAVE BEEN PRODUCED FROM VARIOUS SOURCES AND IS TO BE USED FOR REFERENCE PURPOSES ONLY. THE DATA IS FOR INFORMATIONAL PURPOSES ONLY AND REPRESENTS ONLY THE APPROXIMATE RELATIVE LOCATION OF PROPERTY BOUNDARIES AND FEATURES.
6. SLIP DREDGING AREA EXTENDS BETWEEN BOROUGH DREDGING LIMITS AND BULKHEAD.

**LEGEND:**

- DEPTH LESS THAN 6 FT
- WETLAND VEGETATION (AS OF MAY 2015)
- BUFFER AREA (10 FT FROM BULKHEAD, 25 FT FROM WETLANDS)
- PARCEL
- BULKHEAD
- BOROUGH DREDGING LIMIT
- SLIP DREDGING LIMIT
- DESIGN DREDGE DEPTH (6 FT MLLW CONTOUR)
- CONTOURS (1 FT INTERVAL)

REV	DATE	DESCRIPTION	BY	CHK
CLIENT				
CONSULTANT				
		20 E. Clementon Road, Suite 201N Gibbsboro, NJ 08026 Tel.: 856.248.1200 Fax: 856.248.1206		
		Website: www.cowi-na.com		
PROJECT TITLE				
STONE HARBOR MAINTENANCE DREDGING				
CONDITION SURVEY				
DRAWING TITLE				
ACCESS CHANNEL - PLEASURE BAY				
SHEET 5 OF 8				
SCALE	DESIGNED	APPROVED		
1" = 60'-0"				
DRAWN	CHECKED	DATE		
NIF	JOME	05/15/15		
JOB NO.	DRAWING NO.	REV.		
A067772	G104			



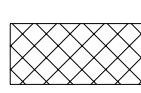




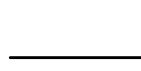



- NOTES:**
1. HYDROGRAPHIC SURVEY DATA COLLECTED BY HYDROGRAPHIC SURVEYS OF SEWELL, NJ BETWEEN 04/23/2015 AND 05/01/2015 AND CAN ONLY REPRESENT THE CONDITIONS AT THE TIME OF SURVEY.
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  4. ALL MAINTENANCE DREDGING SHALL HAVE 3:1 (H:V) SIDE SLOPE FROM LIMITS OF DREDGING AND BUFFER AREAS.
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- LEGEND:**
- DEPTH LESS THAN 6 FT
  - WETLAND VEGETATION (AS OF MAY 2015)
  - BUFFER AREA (10 FT FROM BULKHEAD, 25 FT FROM WETLANDS)
  - PARCEL
  - BULKHEAD
  - BOROUGH DREDGING LIMIT
  - SLIP DREDGING LIMIT
  - DESIGN DREDGE DEPTH (6 FT MLLW CONTOUR)
  - CONTOURS (1 FT INTERVAL)

REV	DATE	DESCRIPTION	BY	CHK
CLIENT				
CONSULTANT				
		<b>Marine North America</b> 20 E. Clementon Road, Suite 201N Gibbsboro, NJ 08026 Tel.: 856.248.1200 Fax: 856.248.1206 Website: www.cowi-na.com		
PROJECT TITLE				
STONE HARBOR MAINTENANCE DREDGING				
CONDITION SURVEY				
DRAWING TITLE				
CARNIVAL BAY SHEET 6 OF 8				
SCALE	DESIGNED	APPROVED		
1" = 60'-0"				
DRAWN	CHECKED	DATE		
NIF	JOME	05/15/15		
JOB NO.	DRAWING NO.	REV.		
A067772	G105			

**LEGEND:**

-  DEPTH LESS THAN 6 FT
-  WETLAND VEGETATION (AS OF MAY 2015)
-  BUFFER AREA (10 FT FROM BULKHEAD, 25 FT FROM WETLANDS)
-  PARCEL
-  BULKHEAD
-  BOROUGH DREDGING LIMIT
-  SLIP DREDGING LIMIT
-  DESIGN DREDGE DEPTH (6 FT MLLW CONTOUR)
-  CONTOURS (1 FT INTERVAL)



**NOTES:**

1. HYDROGRAPHIC SURVEY DATA COLLECTED BY HYDROGRAPHIC SURVEYS OF SEWELL, NJ BETWEEN 04/23/2015 AND 05/01/2015 AND CAN ONLY REPRESENT THE CONDITIONS AT THE TIME OF SURVEY.
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6. SLIP DREDGING AREA EXTENDS BETWEEN BOROUGH DREDGING LIMITS AND BULKHEAD.

REV	DATE	DESCRIPTION	BY	CHK

CLIENT

CONSULTANT  
  
 20 E. Clementon Road, Suite 201N  
 Gibbsboro, NJ 08026  
 Website: www.cowi-na.com  
 Tel.: 856.248.1200  
 Fax: 856.248.1206

PROJECT TITLE  
**STONE HARBOR MAINTENANCE DREDGING**

CONDITION SURVEY  
 DRAWING TITLE  
**PARADISE BAY-STONE HARBOR HOLE  
 ACCESS CHANNEL-SANCUARY BAY  
 SHEET 7 OF 8**

SCALE 1" = 60'-0"	DESIGNED	APPROVED
DRAWN NIF	CHECKED JOME	DATE 05/15/15
JOB NO. A067772	DRAWING NO. G106	REV.



