APPENDIX B

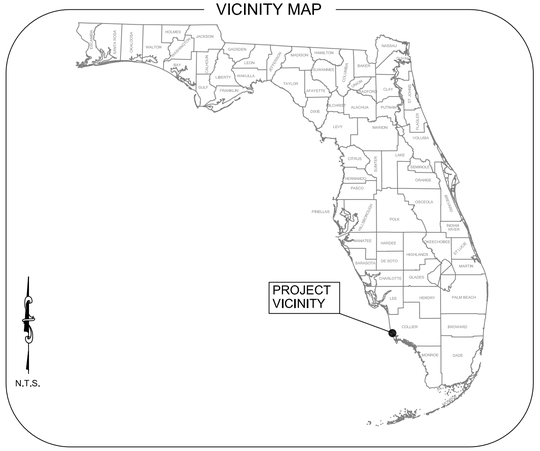
-

CONSTRUCTION PLANS 22”X34”

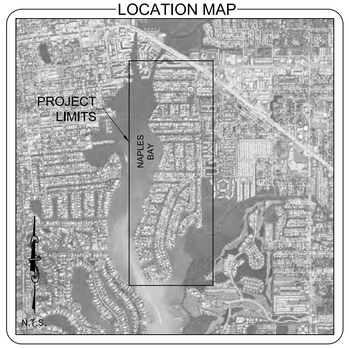
EAST NAPLES BAY DREDGING PROJECT - PHASE II

100% CONSTRUCTION DRAWINGS - ROCK REMOVAL
NAPLES, FLORIDA

VICINITY MAP



LOCATION MAP



INDEX OF DRAWINGS

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PROJECT LOCATION

THE PROJECT AREA IS LOCATED ALONG THE EAST SHORE OF NAPLES BAY IN THE RESIDENTIAL CANALS OF GOLDEN SHORES, OYSTER BAY AND ROYAL HARBOR SUBDIVISIONS, IN NAPLES, FLORIDA.

GENERAL NOTES

1. THE PURPOSE OF THIS PROJECT IS TO DREDGE APPROXIMATELY 1,400 CUBIC YARDS OF ROCK AND SEDIMENT FROM EAST NAPLES BAY CANALS. THESE VOLUMES ARE BASED ON DREDGING TO -5.4' NGVD 29 (-5.0' MLW). ALL QUANTITIES ARE APPROXIMATE AND THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ESTIMATED QUANTITIES.
2. DREDGING ACTIVITY WILL BE CONDUCTED IN DESIGNATED AREAS ONLY AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
3. DREDGING ACTIVITY WILL MAINTAIN A 10' BUFFER FROM ALL DOCKS, NATURAL RESOURCES, SEAWALLS, AND STRUCTURES.
4. CONTRACTOR WILL STRICTLY COMPLY WITH ALL MANATEE REGULATIONS.
5. CONTRACTOR SHALL MAINTAIN EROSION CONTROL AND TURBIDITY CONTROL MEASURES THROUGHOUT THE PROJECT.
6. TOPOGRAPHIC AND BATHYMETRIC DATA HAVE BEEN PROVIDED BY MORGAN & EKLUND, INC. DATED AUGUST/DECEMBER 2012. SURVEY INFORMATION DEPICTED WITHIN THIS PLAN SET REPRESENT THE EXISTING CONDITIONS AT THE TIME OF THE SURVEY WITH A VERTICAL ACCURACY OF +/- 0.3'.
7. GRID COORDINATES ARE IN FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).
8. ELEVATIONS SHOWN WITHIN THIS PLAN SET ARE IN FEET, AND ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
9. MEAN LOW WATER (MLW) IS EQUAL TO -0.4' (NGVD 29) AREA ACCORDING TO BENCHMARKS PUBLISHED ON FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) LAND BOUNDARY INFORMATION SYSTEMS (LABINS) WEBSITE.
10. AERIAL PHOTOGRAPHS WERE PROVIDED BY THE CITY OF NAPLES AND WERE COLLECTED IN 2011.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION.

CITY OF NAPLES, FLORIDA — ON THE GULF

CLIENT

CITY OF NAPLES - STREETS & STORMWATER
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735 8TH STREET SOUTH
NAPLES, FLORIDA
(239) 213-5000

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SURVEYOR

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8745 US HWY #1
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WABASSO, FL 32970
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FEBRUARY 2013

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CONTROL TABULATION

	NAD 83/90 SPCS 0901 US FEET		NGVD 29			
POINT	NORTHING	EASTING	ELEVATION	AGENCY	DESCRIPTION	STAMPING
L 408	-	-	14.79	NGS	DISK SET IN FACE OF WALL	L 408 1992
BMT B 48	-	-	3.99	NONE	DISK IN CONCRETE SEAWALL	BMT B 48
COL 30	-	-	5.01	FLDNR	DISK ON CONCRTE PAD	COL 30 BSM 1986
V 250	-	-	5.60	CGS	CONCRETE MONUMENT	V 250 1965
872 5110 C TIDAL	654861.37	393015.92	6.25	NOS	DISK IN PVC	1978 5110 C
5026 194 9244	644767.77	411192.78	8.33	DENI	CONCRETE MONUMENT	5026 194 9244 1992
APF C	660188.46	403506.27	5.50	NOS	12" X 12" CONCRETE MONUMENT	APF C 1979
101	651041.36	405929.05	7.80	M&E	CONCRETE MONUMENT	0101
102	652093.87	403268.71	5.20	M&E	CONCRETE MONUMENT	0102
103	652256.91	401468.25	4.90	M&E	CONCRETE MONUMENT	0103
104	650940.62	399406.39	4.60	M&E	CONCRETE MONUMENT	0104

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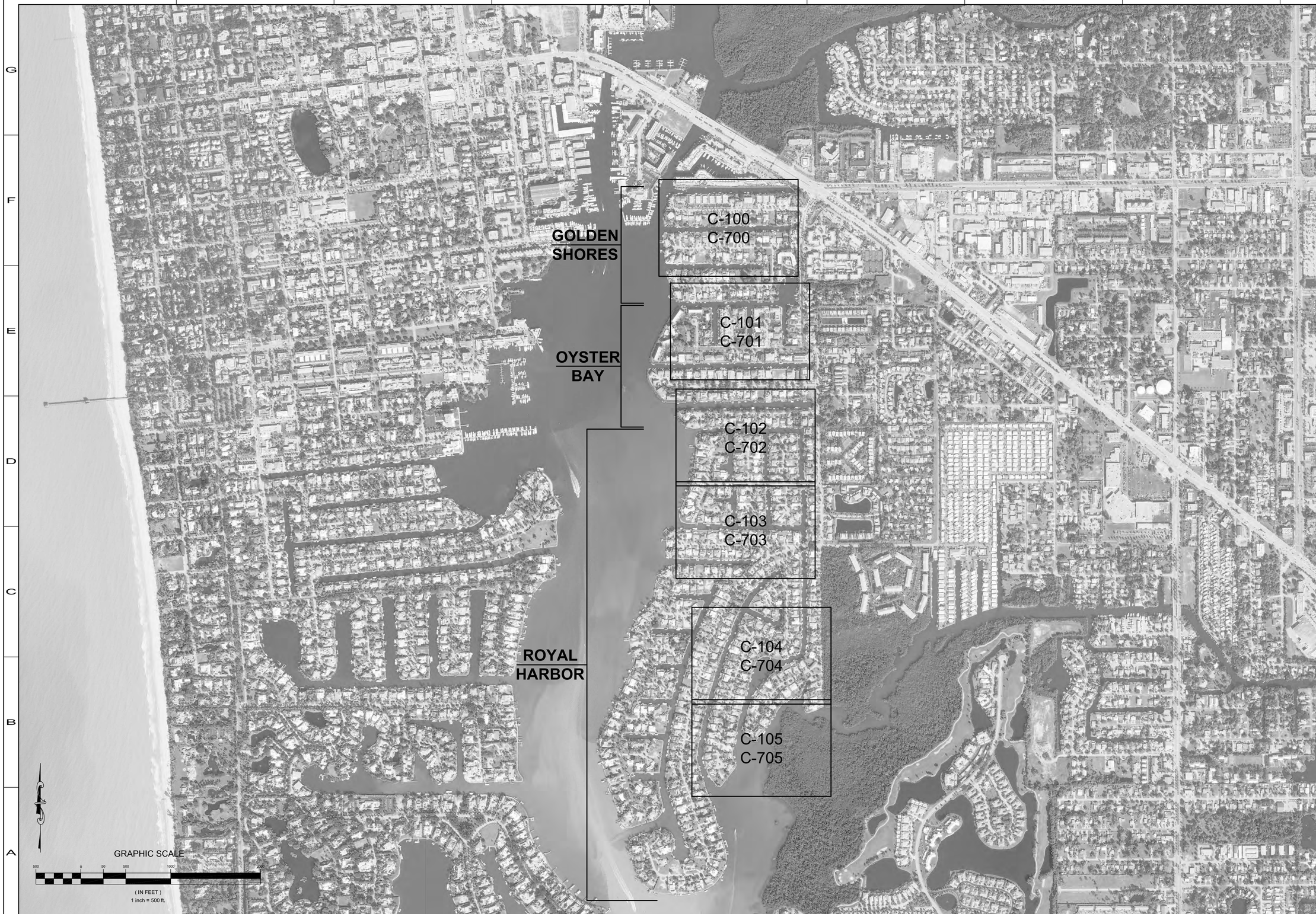
DATE:

ENGINEER OF RECORD: BRYAN D. FLYNN
FLORIDA P.E. #70586

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK



CITY OF NAPLES FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION
1		
2		
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8		
9		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
VICINITY MAP AND SHEET LAYOUT

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TEL: (800) 477-7275
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JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-001

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-000.dwg Feb 15, 2013 - 9:18am

SCOPE OF WORK:

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, AND PERFORMING ALL TASKS NECESSARY FOR THE MAINTENANCE DREDGING OF GOLDEN SHORES, OYSTER BAY, AND ROYAL HARBOR CANAL SYSTEMS OF EAST NAPLES BAY IN NAPLES FLORIDA. THE MATERIAL TO BE DREDGED IS PRIMARILY A MIXTURE OF ROCK AND SAND. THE CANAL SYSTEM CONSISTS OF MANMADE CANALS AND TRIBUTARIES TO EAST NAPLES BAY. THE AMOUNT OF MATERIAL TO BE DREDGED IS SUMMARIZED IN THE VOLUME TABLE ON SHEET C-004.

2. DREDGING WILL ONLY OCCUR TO REACH AN ELEVATION OF -5.4' (NGVD 29). DUE TO THE NATURE OF ROCK REMOVAL, CONSTRUCTION METHODS WILL INEVITABLY GENERATE AN OVERDREDGE VOLUME IN THE PROCESS OF ACHIEVING THE DESIGN DEPTH OF -5.4' (NGVD 29) THROUGHOUT THE REMOVAL AREAS. THE CONTRACTOR MUST MAKE THEIR OWN DETERMINATION OF THE AMOUNT OF OVERDREDGE THAT HE IS LIKELY TO REMOVE BY HIS SPECIFIC CONSTRUCTION METHOD IN ORDER TO ENSURE THAT HE HAS ACHIEVED THE -5.4' (NGVD 29) DESIGN TEMPLATE. THIS OVERDREDGE AMOUNT SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM BID PRICE FOR ALL ROCK REMOVAL. NO SEPARATE LINE ITEM OR ALLOWANCE WILL BE PAID FOR OVERDREDGE BEYOND THE -5.4 FT DEPTH. THIS IS A LUMP SUM PROJECT FOR REMOVAL OF ALL ROCK NECESSARY TO ACHIEVE THE DREDGE TEMPLATE TO -5.4' (NGVD 29).

3. IT IS ANTICIPATED THAT DREDGING ACTIVITY WILL BE PERFORMED THROUGH MECHANICAL MEANS (USE OF EXPLOSIVES IS PROHIBITED), HOWEVER ALTERNATIVE DREDGING METHODOLOGIES MAY BE USED IF APPROVED BY THE CITY AND THE ENGINEER OF RECORD. A TEMPORARY DEWATERING AREA IS PROVIDED OFF OF RIVERSIDE CIRCLE FOR CONTRACTOR'S USE. MATERIAL WILL BE TRANSPORTED BY THE CONTRACTOR FOR FINAL DISPOSAL AT THE COLLIER COUNTY LANDFILL. THERE WILL BE A $25/TRUCK TIPPING FEE FOR EACH LOAD OF ROCK DELIVERED TO THE COLLIER COUNTY LANDFILL. THERE IS NO FEE AT THIS TIME FOR DRIED SEDIMENT DISPOSAL. ALTERNATIVELY, AT THE CITY'S DIRECTION, THE ROCK MAY BE PLACED AT THE CITY YARD AND LEFT FOR STORAGE IN CLEAN, ORGANIZED MANNER (NO LANDFILL DISPOSAL) OR THE ROCK MAY BE DUMPED AT THE HABITAT ISLAND CREATION LOCATION RELATED TO THE PORT ROYAL DREDGING PROJECT. (SEE SHEET C-007 FOR POTENTIAL CREATED HABITAT ISLAND LOCATION AS AN ALTERNATIVE BID ITEM).

MORE SPECIFICALLY, THE WORK CONSISTS OF THE FOLLOWING:

1. APPROXIMATELY 1,400 CUBIC YARDS OF ROCK AND SEDIMENT SHALL BE REMOVED FROM THE AREAS SHOWN IN THE PLAN SET. REMOVAL OF ROCK AND SEDIMENT SHALL BE LIMITED TO A DEPTH OF -5.4' NGVD 29.

2. ALL MATERIAL MUST BE TRANSPORTED TO THE DEWATERING AREA IN SEALED TRUCKS. DISPOSAL OF DRIED SEDIMENT WILL BE AT THE COLLIER COUNTY LANDFILL. AT THE CITY'S DIRECTION, THE FINAL DISPOSAL OF ROCK WILL BE AT:
   A. COLLIER COUNTY LANDFILL (THE LANDFILL WILL ASSESS $25/TRUCK TIPPING FEE).
   B. PLACE THE ROCK AT THE CITY YARD AND LEAVE FOR STORAGE IN CLEAN, ORGANIZED MANNER (NO LANDFILL DISPOSAL).
   C. DUMP THE ROCK AT THE HABITAT ISLAND CREATION LOCATION RELATED TO THE PORT ROYAL DREDGING PROJECT.

3. THE PRE-CONSTRUCTION SURVEY WAS CONDUCTED BY MORGAN & EKLUND, INC. ON BEHALF OF THE CITY OF NAPLES DURING AUGUST/DECEMBER 2012 AND IS THE BASIS FOR THE PREPARATION OF THE CONSTRUCTION PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING THE FINAL POST-DREDGE SURVEYS (AS-BUILT). THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKE-OUT AND ANY INTERIM SURVEYS THAT MAY BE REQUIRED TO VERIFY GRADES DURING DREDGING AND FOR PAY REQUESTS. ALL SURVEYS WILL BE CONDUCTED BY A LICENSED SURVEYING FIRM WITH DEMONSTRATED EXPERIENCE IN BATHYMETRIC DATA COLLECTION. SURVEYS SHALL BE CERTIFIED BY A LICENSED PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA.

4. ALL SURVEYS, STAKEOUT, INTERIM PAY REQUEST SURVEYS SHALL BE SOLELY AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AND/OR ENGINEER REGARDING SCHEDULING SURVEYS (INTERIM AND POST-DREDGE) AND HOW WORK COMPLETED MEETS THE STANDARDS SET FORTH IN THE CONTRACTOR'S QA/QC PLAN. THE SURVEYS WILL BE COMPARED AGAINST THE PRE-CONSTRUCTION SURVEY AND DESIGN TEMPLATE FOR CERTIFICATION OF COMPLETION AND PAYMENT. THE POST-DREDGE SURVEYS WILL MEET MINIMUM TECHNICAL STANDARDS AND BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR (RLS) OR PROFESSIONAL SURVEYOR & MAPPER (PSM) IN THE STATE OF FLORIDA WITH EXPERIENCE IN CONDUCTING BATHYMETRIC SURVEYS. SURVEYS SHALL BE CONDUCTED USING SURVEY-GRADE SINGLE BEAM SURVEY ECHOSOUNDER LINKED TO A RTK-GPS OR DGPS RECEIVER FOR HORIZONTAL CONTROL THAT UTILIZES THE NEAREST COAST GUARD RADIO BEACON FOR CORRECTIONS. SURVEYS WILL BE REFERENCED HORIZONTALLY TO NAD 83, FLORIDA EAST ZONE, US FEET AND REFERENCED VERTICALLY TO NGVD 29, US FEET. SURVEY TRANSECT LINES WILL BE CONDUCTED AT 10' INTERVALS WITHIN THE DESIGNATED WORK AREAS. SURVEY POINTS SHALL BE COLLECTED AT A MINIMUM OF 5' INTERVALS ALONG EACH TRANSECT LINE. ALL ELECTRONIC DATA COLLECTED BY THE CONTRACTOR'S SURVEYOR SHALL BE PROVIDED TO THE CITY IN ELECTRONIC FORMAT. THIS INCLUDES X-Y-Z DATA, DATA POINT DESCRIPTIONS, DIGITAL TERRAIN MODEL (DTM) AND (XML), CAD FILES AND PDF FILES OF THE SURVEY.

5. THIS WORK MUST BE COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS WITHIN THE TIME SPECIFIED IN THE CONTRACT. CONTRACTOR MUST COMPLETE THE WORK WHILE MAINTAINING COMPLIANCE WITH THE CONDITIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), CORPS OF ENGINEERS (COE), COAST GUARD, AND ALL LOCAL PERMITS INCLUDING PERMITS FROM THE CITY OF NAPLES, FLORIDA.

6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES INCLUDING CONSTRUCTION MONITORING, PERMIT COMPLIANCE, AND THE SEQUENCE OF THE WORK. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE RATE OF COMPLETION OR COORDINATION OF THE WORK.

PRE-CONSTRUCTION MEETING AND SUBMITTALS:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE ENGINEER AND THE CITY. THE CONTRACTOR'S DESIGNATED SUPERINTENDENT, AS REQUIRED UNDER THE GENERAL TERMS AND CONDITIONS, SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING, AND CONTRACTOR SHALL SUBMIT TO ENGINEER, FOR THE CITY'S APPROVAL, AN OPERATIONS PLAN WHICH SHALL DESCRIBE IN DETAIL, AS A MINIMUM, THE CONTRACTOR'S PROPOSED PROJECT PLAN:

   1. ORDER OF WORK,
   2. ANTICIPATED SCHEDULE, INCLUDING AN ESTIMATED START AND COMPLETION DATE FOR EACH CANAL.
   3. VESSELS AND HEAVY EQUIPMENT TO BE USED,
   4. WATER TRANSPORTATION FOR THE CITY AND ENGINEER FOR ACCESS TO CONSTRUCTION ACTIVITIES,
   5. SPECIFIC METHOD OF DREDGING AND DISPOSAL OF DREDGED MATERIAL FROM THE CANAL SYSTEM. DETAILS WILL INCLUDE STAGING OF ANY EQUIPMENT, PROCEDURES FOR REMOVING THE ROCK AND SEDIMENT FROM THE CANAL SYSTEM, TRANSPORT OF MATERIAL TO THE TEMPORARY HOLDING AREA, AND FINAL TRANSPORT TO THE COLLIER COUNTY LANDFILL.
   6. NUMBER OF, AND QUALIFICATIONS OF, PERSONNEL TO BE USED DURING CONSTRUCTION,
   7. QUALITY CONTROL DURING CONSTRUCTION TO ENSURE COMPLIANCE WITH WATER QUALITY STANDARDS,
   8. QUALITY ASSURANCE THAT THE MATERIAL HAS BEEN REMOVED TO THE DESIGN DEPTH IN COMPLIANCE WITH REGULATORY REQUIREMENTS.
   9. LIST QUALIFICATIONS OF ALL SUBCONTRACTORS,
   10. A FORM TO BE USED FOR REPORTING DAILY OPERATIONS AND PERMIT COMPLIANCE/MONITORING RESULTS. THIS FORM SHALL INCLUDE A PLACE TO RECORD THE NUMBER OF PERSONNEL ON THE JOB, EQUIPMENT AT THE SITE, WORK COMPLETED DURING THE REPORTING PERIOD (INCLUDING STATIONS DREDGED BETWEEN), WEATHER AND SEA CONDITIONS, MONITORING DATA, THE EXTENT OF AND REASON FOR ANY DELAYS, AND ANY INSTRUCTIONS RECEIVED FROM THE PROJECT MANAGER, THE CITY OR THE ENGINEER.

2. THE CONTRACTOR SHALL DESIGNATE A COMPETENT RESIDENT SUPERINTENDENT TO BE ON SITE WHO WILL BE RESPONSIBLE FOR SEEING THAT THE WORK IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE RESIDENT SUPERINTENDENT SHOULD BE NAMED BY THE CONTRACTOR AND A RESUME FOR THIS INDIVIDUAL PROVIDED IN THE BID PACKAGE SUBMITTAL.

ORDER OF WORK:

THE ORDER OF WORK SHALL GENERALLY BE: PREPARATION OF UPLAND DEWATERING AREA, DREDGING OF THE CANAL SYSTEM, WHICH INCLUDES REMOVAL OF BOTH SEDIMENT AND ROCK, ONGOING MAINTENANCE OF THE DEWATERING AREA, AND TRANSPORT OF MATERIAL TO THE COLLIER COUNTY LANDFILL. THE ORDER OF WORK MAY BE SUBJECT TO CHANGE BASED ON PRIORITIES OF THE CITY.

LAYOUT OF THE WORK:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT (INITIAL STAKE OUT) OF THE WORK PER THE CONSTRUCTION PLANS. THE STAKE OUT SHALL INCLUDE LAYING OUT THE PROJECT BY PLACING VERTICAL STAKES OR BUOYS EVERY 50 FT. IN ALIGNMENT WITH THE DREDGE FOOTPRINT IN ORDER TO PRESENT OUTLINE OF THE BOTTOM WIDTH OF THE CANAL. THE CONTRACTOR MAY ELECT TO ONLY STAKE OUT A PORTION OF THE JOB INITIALLY TO REDUCE THE IMPACT TO THE LOCAL BOATERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SUCH STAKING AS NECESSARY FOR COMPLETION OF THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETRIEVE THE STAKES FROM THE CANALS WHEN THE CANAL HAS BEEN DEEMED COMPLETE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY MAINTAINING THE POSITION OF THE DREDGE OR EXCAVATING EQUIPMENT WITHIN THE PRESCRIBED DREDGING LIMITS. THE CONTRACTOR SHALL CONTINUOUSLY MONITOR TIDE LEVELS AND DEPTH OF DREDGING TO INSURE THAT THE DESIGNED DEPTH OF -5.4' NGVD 29 IS MET. THE CONTRACTOR SHALL HAVE ADEQUATE PERSONNEL ON SITE WITH ABILITY OF SETTING ACCURATE CONTROL FOR CONTINUAL DREDGE OPERATIONS.

3. OVER-DEPTH DREDGING IS PERMITTED TO -6.4' NGVD 29, BUT **NO PAYMENT WILL BE MADE FOR ANY MATERIAL REMOVED BELOW -5.4' NGVD 29 OR OUTSIDE THE DREDGE TEMPLATE FOOTPRINT**. THIS IS A LUMP SUM PROJECT FOR COMPLETION OF THE DREDGE TEMPLATE TO -5.4' (NGVD 29).

4. THE FOLLOWING HORIZONTAL DREDGING LIMITS SHALL APPLY UNLESS AMENDED FOR A SITE SPECIFIC LOCATION IN WRITING BY THE CITY AND THE ENGINEER:

   1. ENDS OF CANALS: NO DREDGING SHALL OCCUR WITHIN 20 FEET OF THE SHORELINE AT THE END OF ANY OF THE CANALS. THIS WOULD INCLUDE THE SHORELINE AS MEASURED AT 0 FEET NGVD29 AT SEAWALLS, REVETMENTS OR EMBANKMENTS AT THE ENDS OF THE CANALS. NO PAYMENT WILL BE MADE FOR ANY DREDGING OUTSIDE OR BELOW THE DREDGE TEMPLATE.

   2. SEAWALLS ALONG CANALS: NO DREDGING SHALL OCCUR WITHIN 10 FEET OF ANY SEAWALL DURING THE EAST NAPLES BAY DREDGING PROJECT. IN CASES WHERE THE DREDGE TEMPLATE SHOWS SIDE SLOPES WITHIN 10 FEET OF A SEAWALL, A BOX CUT LOCATED MORE THAN 10 FEET FROM THE SEAWALL MAY BE DONE NO DEEPER THAN THE DREDGE LIMIT OF -5.4' NGVD 29 (WITH AN OVERDREDGE TO -5.9' NGVD 29) TO ACHIEVE THE SAME AMOUNT OF DREDGING AT THAT STATION.

   3. PILING AND BOAT SLIPS: NO DREDGING SHALL OCCUR WITHIN 10 FEET OF ANY FIXED BOAT SLIP OR MOORING PILE DURING THE EAST NAPLES BAY DREDGING PROJECT. IN CASES WHERE THE DREDGE TEMPLATE SHOWS SIDE SLOPES WITHIN 10 FEET OF A BOAT SLIP OR MOORING PILING ASSOCIATED WITH A BOAT SLIP A BOX CUT LOCATED MORE THAN 10 FEET FROM THE BOAT SLIP OR MOORING PILING MAY BE DONE NO DEEPER THAN THE THAN THE DREDGE LIMIT OF -5.4' NGVD 29 TO ACHIEVE THE SAME AMOUNT OF DREDGING AT THAT STATION.

OBSTRUCTION OF CANAL:

THE CONTRACTOR SHALL BE REQUIRED TO CONDUCT THE WORK IN SUCH MANNER AS TO MINIMIZE OBSTRUCTION TO NAVIGATION. IN CASES WHERE THE CONTRACTOR'S EQUIPMENT OR OPERATIONS OBSTRUCT NAVIGATION OR MAY ENDANGER THE PASSAGE OF VESSELS, SAID EQUIPMENT OR OPERATIONS SHALL BE MOVED AS SOON AS PRACTICAL ON THE APPROACH OF ANY VESSEL TO SUCH EXTENT AS MAY BE NECESSARY TO AFFORD SAFE PASSAGE. UPON THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROMPTLY REMOVE THEIR EQUIPMENT, INCLUDING RANGES, BUOYS AND OTHER MARKERS PLACED IN NAVIGABLE WATERS. IT IS THE INTENT OF THE SCHEDULING REQUIRED AT THE PRE-CONSTRUCTION MEETING TO ALLOW FOR COORDINATION WITH THE PROPERTY OWNERS OF GOLDEN SHORES, OYSTER BAY, ROYAL HARBOR AND THE CITY OF NAPLES TO PROVIDE ADVANCE NOTICE TO PROPERTY OWNERS WITHIN THE CANAL SYSTEM TO MINIMIZE BOAT TRAFFIC IN THE AREA OF WORK DURING THE TIME SCHEDULED.

RECORD DRAWINGS AND AS-BUILT SURVEY:

1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL RECORD ALL INFORMATION REQUIRED TO COMPLETE A SET OF RECORD SHOP DRAWINGS. INFORMATION TO BE INCLUDED ON THE RECORD SHOP DRAWINGS SHALL BE RECORDED ON ONE WORKING SET OF CONSTRUCTION DRAWINGS DURING THE COURSE OF THE WORK, AND SHALL INCLUDE ACTUAL STRUCTURE DIMENSIONS AND ELEVATIONS. IF FIELD CHANGES ARE MADE TO MODIFY THE WORK IN ANY WAY, SUCH FIELD CHANGES SHALL BE DOCUMENTED ON THE RECORD SHOP DRAWINGS BY DIMENSION, DETAIL AND DATE. THE WORKING SET OF CONSTRUCTION DRAWINGS SHALL BE KEPT AT THE SITE AND AVAILABLE FOR REVIEW BY THE CITY AND THE ENGINEER DURING THE PROGRESS OF THE WORK. PRIOR TO SUBSTANTIAL COMPLETION OF THE WORK, THE CONTRACTOR SHALL TRANSFER THE INFORMATION TO A FINAL PROJECT RECORD SET OF REPRODUCIBLE DRAWINGS, AND SUBMIT THE DRAWINGS TO THE CITY THROUGH THE ENGINEER, ALONG WITH A CERTIFICATION AS TO THE ACCURACY AND COMPLETENESS OF THE DRAWINGS. PRIOR TO FINAL PAYMENT, THE RECORD SHOP DRAWINGS SHALL BE REVISED BY THE CONTRACTOR TO REFLECT ANY CHANGES WHICH HAVE OCCURRED.

2. FOLLOWING THE COMPLETION OF THE DREDGING IN ALL CANALS, THE CONTRACTOR SHALL PROVIDE A POST-DREDGE SURVEY OF EACH CANAL. THIS SURVEY SHALL BE USED AS A BASIS FOR DETERMINING PAYMENT AND SHALL BE USED TO DETERMINE COMPLIANCE WITH THE AS-BUILT PLAN SUBMITTAL TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND UNITED STATES ARMY CORPS OF ENGINEERS. THE POST-CONSTRUCTION DREDGING SURVEY SHALL BE CONDUCTED BY A LICENSED SURVEYING FIRM, WITH DEMONSTRATED EXPERIENCE IN BATHYMETRIC DATA COLLECTION. POST-CONSTRUCTION DREDGING SURVEYS, INCLUDING ESTIMATES OF DREDGE VOLUMES, SHALL BE CERTIFIED BY A LICENSED PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF FLORIDA. THE SURVEYOR FOR THIS PROJECT WILL BE MORGAN & EKLUND, INC.

SITE CONDITIONS:

1. THE WORK IN THE CANAL SYSTEMS OF GOLDEN SHORES, OYSTER BAY, AND ROYAL HARBOR IS REFERRED TO AS THE "EAST NAPLES BAY DREDGING PROJECT" ON THE EAST SIDE OF NAPLES BAY. THE AREA OF WORK IS THEREFORE EXPOSED TO WEATHER CONDITIONS WHICH AT TIMES MAY INCLUDE STORMS AND ROUGH SEA CONDITIONS NECESSITATING TEMPORARY SUSPENSION OF MARINE CONSTRUCTION OPERATIONS. ADDITIONALLY, THE WORK AREA MAY BE SUBJECT TO WAKES GENERATED BY VESSELS IN NAPLES BAY. THE CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH THESE CONDITIONS AND TO TAKE THEM UNDER CONSIDERATION IN THE COST OF THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE PRECAUTIONS TO INSURE THAT PARTIALLY COMPLETED WORK IS NOT SUBJECT TO DISPLACEMENT OR DAMAGE DUE TO NATURAL SITE CONDITIONS OR BOAT WAKES. SHOULD ANY SUCH DAMAGE OR DISPLACEMENT OF PARTIALLY COMPLETED WORK OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY SUCH DAMAGE OR DISPLACEMENT OF PARTIALLY COMPLETED WORK AT NO ADDITIONAL COST TO THE CITY.

2. A GEOTECHNICAL INVESTIGATION OF THE SUBSURFACE CONDITIONS IN THE CANAL SYSTEMS HAS BEEN COMPLETED BY TIERRA, INC AND THE FULL REPORT AND ANALYSIS IS INCLUDED IN APPENDIX "C" OF THE BID SPECIFICATIONS. THE CONTRACTOR SHALL PERFORM AT THEIR OWN EXPENSE, ANY ADDITIONAL SUCH INVESTIGATIONS THAT CONTRACTOR DEEMS NECESSARY TO VERIFY ROCK DENSITIES AND QUANTITIES.

3. INFORMATION AND DATA FURNISHED OR REFERRED TO HEREIN ARE FOR THE CONTRACTOR'S INFORMATION, HOWEVER, IT IS EXPRESSLY UNDERSTOOD THAT THE CITY AND ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY INTERPRETATION OR CONCLUSION DRAWN THERE FROM BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH LOCAL CONDITIONS THAT MAY IN ANY MANNER AFFECT PERFORMANCE OF THE WORK.

SITE PREPARATION:

1. SAND AND ROCK MATERIAL REMOVED FROM THE CANAL SYSTE, MUST BE STOCKPILED ON THE TEMPORARY DEWATERING SITE WILL BE PLACED WITHIN THE AREAS DESIGNATED ON THE PLANS. SILT FENCE SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR ALONG THE PERIMETER OF THE DISPOSAL BASINS PRIOR TO DISPOSAL OF ANY MATERIAL IN THE BASINS TO AVOID THE PLACEMENT OR SPREADING OF SEDIMENT INTO THE WETLAND VEGETATION ALONG THE NORTHERN AND EASTERN PERIMETER OF THE TEMPORARY DISPOSAL SITE.

2. UPON COMPLETION AND ACCEPTANCE OF THE DREDGING, THE CONTRACTOR SHALL RESTORE THE DEWATERING AREAS TO THEIR PRE-CONSTRUCTION CONDITION. PRIOR TO RESTORATION OF THE DEWATERING AREA, THE CONTRACTOR SHALL MEET WITH THE CITY AND THE ENGINEER ON SITE TO DISCUSS THE SPECIFICS OF THE SITE RESTORATION. THE CITY RESERVES THE RIGHT TO KEEP THE DEWATERING AREAS FOR USE FOR OTHER CITY WORK IF DEEMED NECESSARY AT THAT TIME, AND IF SO THAT WORK SHALL BE REMOVED FROM THE CONTRACTOR'S CONTRACTUAL OBLIGATION WITH THE CITY AND A CREDIT WILL RESULT TO THE CITY.

NOTICE TO MARINERS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE COAST GUARD IN SUFFICIENT TIME TO ALLOW FOR PUBLICATION OF A NOTICE TO MARINERS. THE LOCAL COAST GUARD IS:

COMMANDER
7TH COAST GUARD DISTRICT
BRICKELL PLAZA FEDERAL BUILDING
909 S.E. FIRST AVENUE, ROOM 406
MIAMI, FLORIDA 33131-3028
ATTN: (LNM)
TELEPHONE: (305) 415-6750
FAX: (305) 415-6757

THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE U.S. COAST GUARD FOR ALL BUOYS, MARKERS, AND OTHER DREDGING AIDS PRIOR TO INSTALLATION. DREDGING AIDS, LIGHTS OR TARGETS SHALL NOT BE PLACED OR COLORED IN A MANNER THAT THEY WILL OBSTRUCT OR BE CONFUSED WITH NAVIGATION AIDS.

ENVIRONMENTAL PROTECTION:

1. CONTRACTOR SHALL EXERCISE DUE CAUTION SO AS NOT TO DAMAGE EXISTING NATIVE VEGETATION AND OYSTERS ALONG THE SHORELINE WITHIN AND AROUND THE PROJECT SITES, ACCESS WAYS, AND STAGING AREAS. ANY NATIVE VEGETATION OR OYSTERS OUTSIDE OF THE DREDGE TEMPLATE DAMAGED BY CONTRACTOR DURING THE COURSE OF THE WORK SHALL BE RESTORED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.

2. IN ORDER TO ENSURE THAT MANATEES ARE NOT ADVERSELY AFFECTED BY THE CONSTRUCTION ACTIVITIES AS DESCRIBED IN THESE SPECIFICATIONS, THE CONTRACTOR IS REQUIRED TO STRICTLY ADHERE TO THE STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CORPS OF ENGINEERS PERMIT STANDARD MANATEE CONDITIONS WHICH IDENTIFY SPECIFIC REQUIREMENTS FOR THE PROTECTION OF MANATEES. REFER TO SPECIFIC CONDITIONS 19-24 OF FDEP ENVIRONMENTAL RESOURCE PERMIT 11-0295486-001. STATE AND FEDERAL PERMITS AND PERMIT CONDITIONS FOR THIS PROJECT ARE INLCUDED AS PART OF THE CONTRACT DOCUMENTS.

PERMITS:

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LOCAL CITY OF NAPLES BUILDING PERMIT AND EXTENDED WORK HOURS PERMIT, INCLUDING ANY APPLICATION FEES ASSOCIATED WITH THE CITY BUILDING PERMIT AND SHALL COMPLY WITH ALL CONDITIONS OF FEDERAL, STATE AND LOCAL PERMITS INCLUDING THOSE LISTED BELOW.

   1. FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (11-0295486-001).
   2. U.S. ARMY CORPS OF ENGINEERS AND U.S. COAST GUARD (SAJ-2009-01709 (IP-LAE)).

REV.	BY	DATE	DESCRIPTION
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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

NOTICE:
THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY ATKINS, INC. WHILE ATKINS HAS TAKEN ALL REASONABLE STEPS TO ASSURE THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT, IT CANNOT GUARANTEE THAT CHANGES OR ALTERATIONS TO THIS DOCUMENT WILL NOT BE MADE BY PERSONS OTHER THAN ATKINS PERSONNEL AFTER THE DOCUMENT LEAVES THE POSSESSION OF ATKINS. CHANGES OR ALTERATIONS MAY BE SAFETY RELATED AND RESULT IN DAMAGE TO PROPERTY, PERSONAL INJURY OR DEATH. IF VERIFICATION OF THE INFORMATION CONTAINED IN THIS DOCUMENT IS NEEDED, CONTACT SHOULD BE MADE DIRECTLY WITH ATKINS. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY, WITH CERTIFIED RAISED SEAL, IF APPLICABLE, IN ORDER TO INSURE THE ACCURACY OF THE INFORMATION CONTAINED THEREIN AND TO FURTHER INSURE THAT NO CHANGES, ALTERATIONS OR MODIFICATIONS HAVE BEEN MADE TO THE DOCUMENT. NO RELIANCE SHOULD EVER BE MADE ON A DOCUMENTATION TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS UNLESS IT IS FIRST COMPARED TO THE ORIGINAL. ATKINS MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS.

CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CONSTRUCTION NOTES

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (800) 477-7275
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JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-002

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-000.dwg Feb 15, 2013 - 9:18am

GENERAL CONSTRUCTION NOTES:

1. ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD 29). HORIZONTAL COORDINATE SYSTEM IS STATE PLANE FLORIDA EAST FEET, NAD83.

2. MEAN LOW WATER (MLW) IS EQUAL TO -0.4 FEET NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) FOR THIS PROJECT AREA ACCORDING TO BENCHMARKS PUBLISHED ON FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION LAND BOUNDARY INFORMATION SYSTEMS (LABINS) WEBSITE.

3. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF THE QUANTITIES OF WORK REQUIRED TO COMPLETE THE CONSTRUCTION SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO MAKE THEIR OWN ASSESSMENT OF THE SITE AND THE WORK REQUIRED PRIOR TO BIDDING AND ANY DISCREPANCIES, ERRORS OR OMISSIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE CITY REPRESENTATIVE BEFORE THE BID DUE DATE.

4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES OR OTHER OBJECTS PRIOR TO COMMENCING WORK AT THE SITE. ANY UTILITIES OR OTHER ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY.

5. ALL AREAS OR ITEMS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION AT NO COST TO THE CITY.

6. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.

7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, WHICH MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR AT NO COST TO THE CITY.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT, MONITORING, AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.

9. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR LATEST EDITION UNLESS OTHERWISE NOTED.

10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING HORIZONTAL AND VERTICAL ACCURACY DURING DREDGING. QA/QC PROCEDURES MUST BE SUBMITTED AND APPROVED BY THE CITY AND ENGINEER.

11. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.

12. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION OF EQUAL TO, OR BETTER THAN EXISTING CONDITIONS.

13. CONTRACTOR SHALL PROVIDE A DUST MANAGEMENT PLAN TO THE ENGINEER OF RECORD AND THE CITY FOR APPROVAL PRIOR TO INITIATING CONSTRUCTION. APPROVAL OF THE PLAN SHALL NOT OBLIGATE THE ENGINEER OR THE CITY IN ANY WAY AND SHALL NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL FUGITIVE DUST.

14. CONSTRUCTION TRAFFIC SHALL NOT IMPEDE THE SAFE AND EFFICIENT USE OF RIVERSIDE CIRCLE, NAPLES LANDING PARK AND SURROUNDING ROADWAYS. THE CONTRACTOR SHALL FOLLOW FDOT STANDARD INDICES 600 AND 604 FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY REMOVAL OF ANY FUGITIVE DUST, SAND OR DEBRIS WHICH MAY BE CAUSED BY THEIR ACTIONS FROM THE RIGHT OF WAY OF RIVERSIDE CIRCLE AND NAPLES LANDING.

16. RECORD DRAWINGS: THREE (3) SETS OF THE FINAL RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD. RECORD DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS IN THE SCOPE OF WORK.

17. ENGINEER OF RECORD IS THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE PROJECT.

CONTACT: BRYAN D. FLYNN, P.E.
ATKINS NORTH AMERICA
4030 BOY SCOUT BLVD. SUITE 700
TAMPA, FLORIDA 33607
PHONE: 813-281-7689, FAX: 813-636-8583.

18. ENGINEER OF RECORD IS ALSO THE ENGINEER HIRED TO OBSERVE CONSTRUCTION.

19. OTHER CONTACT INFORMATION WILL BE PROVIDED AS NECESSARY.

20. THE CONTRACTOR SHALL NOT OCCUPY PRIVATE LAND OUTSIDE OF ANY EASEMENTS OR RIGHTS OF WAY UNLESS A WRITTEN AUTHORIZATION HAS BEEN SIGNED BY THE PROPERTY OWNER AND PROVIDED TO THE CITY. PRIOR TO THE USE OF PRIVATE LANDS, THE CONTRACTOR SHALL SUBMIT A COPY OF THE AGREEMENT(S) TO THE CITY. IN THE EVENT THAT THE CONTRACTOR USES PRIVATE PROPERTY FOR ANY PURPOSE WITHOUT FIRST HAVING THE NECESSARY APPROVALS FROM THE PROPERTY OWNER OR PROVIDED THE NECESSARY AGREEMENT TO THE CITY, THE CITY WILL DIRECT THE CONTRACTOR TO IMMEDIATELY CEASE USING SUCH PROPERTY. PRIOR TO APPLICATION FOR FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FROM THE OWNER OF EACH PIECE OF PRIVATE PROPERTY FOR WHICH AN AGREEMENT FOR USE WAS PROVIDED, OR FOR WHICH THE CITY HAS ISSUED WRITTEN NOTIFICATION TO THE CONTRACTOR, THAT EACH OWNER IS SATISFIED WITH THE MANNER IN WHICH THE CONTRACTOR HAS RESTORED THE PROPERTY. FINAL PAYMENT OF OR REDUCTION IN RETAINAGE SHALL NOT BE PAID UNTIL SUCH DOCUMENTATION IS RECEIVED BY THE CITY.

21. UNDER NO CIRCUMSTANCES WILL THE USE OF EXPLOSIVES FOR EXCAVATION OF ROCK BE PERMITTED.

22. MATERIAL REMOVED FROM BEYOND THE DREDGING LIMITS AS SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE CONSIDERED EXCESSIVE DREDGING FOR WHICH NO PAYMENT WILL BE MADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEDERAL, STATE, AND LOCAL REGULATORY PERMITS, IMPLICATIONS, VIOLATIONS AND/OR FEES AS A RESULT OF EXCESSIVE DREDGING.

23. ANY DREDGED MATERIALS DEPOSITED AT LOCATIONS OTHER THAN AS DESIGNATED OR APPROVED BY THE CITY SHALL BE CONSIDERED MISPLACED MATERIAL AND SHALL NOT BE PAID FOR UNTIL THE CONTRACTOR, AT THEIR EXPENSE, REMOVES AND RE-DEPOSITS SUCH MISPLACED MATERIAL TO THE APPROVED DISPOSAL SITE. THIS REQUIRED REMOVAL AND REDEPOSIT OF THE MISPLACED MATERIAL AND ANY NECESSARY DISPOSAL SITE RESTORATION WORK SHALL NOT BE THE BASIS FOR A TIME EXTENSION OR ADDITIONAL COMPENSATION UNDER THIS CONTRACT.

24. DEBRIS, SUCH AS STUMPS, ROCKS, ROCK FRAGMENTS, ROOTS, LOGS, TRASH, VEGETATION, ETC. AND ANY OTHER OBJECTS (EXCEPT ARCHEOLOGICAL OR HISTORIC RESOURCES) THAT EXIST WITHIN THE PROJECT AREA OR ARE UNEARTHED DURING THE DREDGING OPERATIONS, SHALL BE REMOVED, TRANSPORTED, AND DISPOSED OF AT THE APPROPRIATE DISPOSAL SITE AND SHOULD BE EXPECTED TO BE ENCOUNTERED DURING THE DREDGE OPERATIONS AND WILL NOT CONSTITUTE A CHANGE OF CONDITION TO THE CONTRACT/AGREEMENT. REMOVAL AND DISPOSAL OF DEBRIS WILL TO BE SOLE RESPONSIBILITY OF THE CONTRACTOR IN ITS ENTIRELY. IF ARCHEOLOGICAL OR HISTORIC RESOURCES ARE ENCOUNTERED THE CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY AND STOP WORK UNTIL DIRECTED TO RESTART. REMOVAL AND DISPOSAL OF DEBRIS AND OBSTRUCTIONS SHALL NOT BE PROVIDED SEPARATELY FOR PAYMENT. ALL COSTS ASSOCIATED WITH THE REQUIRED DISPOSAL OF DEBRIS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR DREDGING. THESE SPECIFICATIONS ARE NOT AN ALL-INCLUSIVE REFERENCE OF DEBRIS TYPES, WHICH MAY BE ENCOUNTERED DURING THIS DREDGING.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY MATERIAL THAT ACCUMULATES IN THE DREDGED CHANNEL OR OTHER AREAS WITHIN THE CANALS AS A RESULT OF THE CONTRACTOR'S ACTIVITY AND/OR OPERATIONS, AFTER INITIAL ESTABLISHMENT OF THE INITIAL CHANNEL AT NO ADDITIONAL COST, AND PRIOR TO FINAL ACCEPTANCE.

26. THE CITY HAS PERFORMED A PRE-CONSTRUCTION SURVEY THAT IS INCLUDED IN THE CONTRACT DRAWINGS. THIS PRE-CONSTRUCTION SURVEY WAS USED TO CALCULATE AN ESTIMATED QUANTITY OF MATERIAL TO BE DREDGED. THIS QUANTITY IS CONSIDERED AN ESTIMATE ONLY. PAYMENT FOR THIS WORK SHALL BE BASED ON THE LUMP SUM BID PRICE UPON SURVEY VERIFICATION OF DREDGING TO -5.4' NGVD 29, AS IDENTIFIED BY THE FINAL CONSTRUCTION SURVEY PROVIDED AT THE CONTRACTOR'S COST. THE CONTRACTOR SHALL MAKE AN ASSESSMENT OF THIS AND ANY OTHER RELEVANT INFORMATION NECESSARY, IN THE JUDGMENT OF THE CONTRACTOR, IN DETERMINING THE EXPECTED VOLUME TO BE REMOVED. ALL INTERIM SURVEYS (NECESSARY FOR PAY INTERIM PAY REQUESTS) WILL BE DONE BY THE CONTRACTOR AT THEIR OWN COST.

27. THE WORK IS TO BE COMPLETED WITHIN THE AREA SHOWN ON THE PLANS . IF ADDITIONAL AREA IS REQUIRED FOR STORAGE OF EQUIPMENT OR MATERIALS, ARRANGEMENTS FOR SUCH STORAGE FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO STAGING, OFFLOADING, OR PARKING MAY OCCUR ON VACANT LOTS WITHIN THE RESIDENTIAL NEIGHBORHOODS (PER CITY CODE) WITHOUT WRITTEN PERMISSION FROM THE LAND OWNER SUBMITTED TO THE CITY AND ENGINEER FOR APPROVAL.

28. SPECIAL MEASURES SHALL BE TAKEN TO PREVENT BILGE PUMPAGE OR EFFLUENT, CHEMICALS, FUELS, OILS, GREASES, AND BITUMINOUS MATERIALS FROM ENTERING THE WATER.

29. DISPOSAL OF ANY MATERIALS, WASTES, EFFLUENT, TRASH, GARBAGE, OIL, GREASE, CHEMICAL, ETC., IN AND ADJACENT TO THE PROJECT SITE SHALL NOT BE PERMITTED. IF ANY WASTE MATERIALS ARE DUMPED IN UNAUTHORIZED AREAS THE CONTRACTOR SHALL REMOVE THE MATERIAL AND RESTORE THE AREA TO THE ORIGINAL CONDITION. IF NECESSARY, CONTAMINATED GROUND SHALL BE EXCAVATED, DISPOSED OF AS DIRECTED BY THE ENGINEER OF RECORD, AND REPLACED WITH SUITABLE FILL MATERIAL.

SAFETY NOTES:

1. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE INFORMATION HEREIN HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER, OWNER'S ENGINEER, OR ENGINEER OF RECORD WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

2. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THE PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF PERSONNEL. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT LIFEVESTS AND/OR REFLECTIVE GARMENTS ARE WORN WHENEVER THE WORKERS ARE WITHIN 15 FEET OF THE EDGE OF THE TRAVELWAY. WORKERS OPERATING MACHINERY OR EQUIPMENT IN WHICH LOOSE CLOTHING COULD BECOME ENTANGLED DURING OPERATION ARE EXEMPT FROM THIS REQUIREMENT. SUCH EXEMPT WORKERS WILL BE REQUIRED TO WEAR ORANGE SHIRTS OR JACKETS.

4. TYPE III PFDS AND HARDHATS MUST BE WORN ON DREDGE BARGES/VESSEL AND SUPPORT BARGES/VESSELS AT ALL TIMES.

DEWATERING SITE CONSTRUCTION NOTES:

1. CONTRACTOR SHALL PROVIDE LOCATION, SPECS, PROCEDURES AND PERMITS FOR THE DEWATERING SITE TO THE CITY AND ENGINEER OF RECORD FOR REVIEW PRIOR TO MOBILIZATION. NO EQUIPMENT OR PERSONNEL MAY OCCUPY ANY LANDS AT THE DEWATERING AREA NOT OWNED DIRECTLY BY THE CITY OF NAPLES. SEE SHEET C-006 FOR DETAILS.

2. CONTRACTOR SHALL INSTALL A FDOT APPROVED SILT FENCE AROUND THE ENTIRE DEWATERING AREA. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THIS SILT FENCE AT ALL TIMES.

3. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THOSE MEASURES NECESSARY TO PREVENT, CONTROL AND ABATE ANY EROSION OF THE GROUND SURFACE OR SHORELINE BANKS CAUSED BY THE WORK. THE USE OF BEST MANAGEMENT PRACTICES SUCH AS STRAW BALES, EROSION SCREENS AND TURBIDITY SCREENS SHALL BE USED FOR THIS PORTION OF THE WORK. THE CONTRACTOR SHALL CONSTRUCT OR INSTALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL FEATURES AS REQUIRED. EROSION AND SEDIMENT CONTROL MEASURES SUCH AS BERMS, DIKES, DRAINS, SEDIMENT TRAPS, SEDIMENTATION BASINS, GRASSING, MULCHING, STRAW BALES, AND SILT FENCES SHALL BE MAINTAINED UNTIL COMPLETION OF THE WORK.

ADDITIONAL DREDGE CONSTRUCTION NOTES:

1. ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

2. ALL WORK WILL BE COMPLETED WITHIN DESIGNATED DREDGE AREAS AND TO THE DESIGNATED DREDGE DEPTH OF -5.4' NGVD 29.

3. DREDGE ACTIVITY WILL BE CONDUCTED DURING DAYLIGHT HOURS BETWEEN MONDAY TO SATURDAY. NO WORK MAY BE CONDUCTED ON SUNDAYS, NEW YEAR'S DAY, MEMORIAL DAY, JULY 4TH, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY WITHOUT WRITTEN APPROVAL FROM THE CITY OF NAPLES BUILDING DEPARTMENT. HOURS OF WORK MAY BE ALTERED AT ANY TIME AT THE DISCRETION OF THE CITY. NO WORK MAY OCCUR AT NIGHT PER FDEP STANDARD MANATEE REGULATIONS.

4. THE CONTRACTOR SHALL STRICTLY ADHERE TO ALL MANATEE REGULATIONS.

5. THE CONTRACTOR WILL OBSERVE A TEN (10) FOOT BUFFER AROUND ALL DOCKS, NATURAL RESOURCES, SEAWALLS AND STRUCTURES.

6. AREAS WHERE NATURAL RESOURCES (SEAGRASS, OYSTERS, ETC.) ARE PRESENT WILL BE PROTECTED WITH TURBIDITY BARRIERS MAINTAINED THROUGHOUT THE PROJECT.

7. TURBIDITY CONTROL MEASURES WILL BE PROPERLY MAINTAINED IN COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY STANDARDS. IF TURBIDITY LEVELS EXCEED WATER QUALITY STANDARDS, DREDGING ACTIVITY WILL CEASE UNTIL LEVELS RETURN TO THE ACCEPTABLE RANGE. THE CONTRACTOR WILL BE RESPONSIBLE FOR MONITORING AND RECORDING TURBIDITY READINGS EVERY FOUR HOURS (PER FDEP PERMIT REQUIREMENTS) AT THE TURBIDITY CURTAIN AND THE BACKGROUND LOCATIONS AS IDENTIFIED ON THE "BACKGROUND WATER QUALITY MONITORING" SHEET IN PLAN SET. THE REPORTS MUST BE SUBMITTED TO THE ENGINEER OF RECORD ON A DAILY BASIS. WEEKLY REPORTS OF MONITORING MUST BE SUBMITTED TO THE FDEP PERMIT COMPLIANCE OFFICER BY 10AM EVERY MONDAY. (MARIE.VIDRINE@DEP.STATE.FL.US). SEE FDEP PERMIT FOR REPORT FORMAT.

8. THE CONTRACTOR WILL OPERATE IN A MANNER THAT WILL CAUSE THE LEAST IMPACT TO WATERWAY NAVIGATION AND ACCOMMODATE LOCAL TRAFFIC WITHIN REASON. ANY QUESTIONS AND/OR CONCERNS SHOULD BE DIRECTED TO THE CITY OF NAPLES HARBORMASTER.

9. DREDGE BARGES, CABLES, BUOYS, ETC. WILL BE REMOVED FROM THE CHANNEL AT THE COMPLETION OF EACH DAY'S WORK AND HAVE WORKING MARKING/ANCHOR LIGHTS TO WARN VESSELS OF THEIR LOCATION.

10. DAMAGE TO ANY PROPERTY, UTILITIES, STRUCTURES OR NATURAL RESOURCES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR IN A TIMELY MANNER AT THE CONTRACTOR'S EXPENSE.

11. THE CITY AND CONTRACTOR WILL NOTIFY HOMEOWNERS WITH A PROPERTY ADJACENT TO THE DREDGE TEMPLATE PRIOR TO CONSTRUCTION, STATING THAT THE HOMEOWNER IS RESPONSIBLE FOR MOVING THEIR VESSEL(S) OR OTHER PROPERTY IN THE WATER FOR THE DURATION OF DREDGING IN EACH CANAL TO ALLOW FOR CONSTRUCTION ACTIVITIES. SHOULD A HOMEOWNER NOT MOVE THEIR VESSEL OR PROPERTY WITHIN THE ALLOTTED TIME, THE CITY AND THE ENGINEER WILL NOT BE RESPONSIBLE FOR DAMAGES TO PERSONAL PROPERTY CAUSED BY THE FAILURE TO MOVE VESSELS FROM THE CANAL TRAVELWAY. THE CONTRACTOR SHOULD ALSO MAKE HIS OWN ATTEMPT TO CONTACT THE HOMEOWNER AS NECESSARY. THE CONTRACTOR SHALL CONTACT THE CITY WHEN A VESSEL HAS NOT BEEN MOVED AND MAY INTERFERE WITH CONSTRUCTION.

12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR ALL EQUIPMENT INGRESS AND EGRESS TO AND FROM THE PROJECT WORK AREAS. THE CONTRACTOR SHALL MAKE AN INVESTIGATION OF WATER ACCESS ROUTES AND THE ROAD FOR TRANSPORTATION, LOAD LIMITS FOR BRIDGES AND ROADS, AND OTHER ROAD CONDITIONS AFFECTING THE TRANSPORTATION OF MATERIALS AND EQUIPMENT TO THE WORK SITES. THE CONTRACTOR SHALL ALSO INVESTIGATE THE AVAILABILITY OF ANY STAGING, STORAGE, AND STOCK PILING AREAS AND SHALL MAKE ALL ARRANGEMENTS FOR USE OF ANY SUCH AREAS FOR THE DELIVERY OF ANY MATERIALS AND EQUIPMENT TO BE USED IN COMPLETING THE WORK.

13. THE TRAFFIC USING THE PROJECT AREA IS GENERALLY RECREATION VESSELS. DEPENDING ON THE TYPE AND SIZE OF EQUIPMENT USED BY THE CONTRACTOR, THERE MAY OR MAY NOT BE AMPLE ROOM IN THE AREAS TO BE DREDGED TO ACCOMMODATE TRAFFIC WITHOUT SOME INTERFERENCE WITH THE DREDGING OPERATIONS. THE CONTRACTOR SHOULD INVESTIGATE THIS SITUATION AND, COUPLED WITH THE CHOICE OF EQUIPMENT, DETERMINE WHAT IMPACT THESE CONDITIONS WILL HAVE ON THE DREDGING OPERATION. CANALS THAT ARE NARROW WILL MAKE ACCESS DIFFICULT, BUT THESE CONDITIONS WILL NOT EXEMPT THE CONTRACTOR FROM DREDGING THESE CANALS. EQUIPMENT SHOULD BE CHOSEN TO ALLOW BETTER ACCESS TO NARROW CANALS.

14. THE CONTRACTOR WILL BE REQUIRED TO CONDUCT THE WORK IN SUCH MANNER AS TO OBSTRUCT NAVIGATION AS LITTLE AS POSSIBLE DURING NORMAL WORKING HOURS, AND IN THE EVENT THE CONTRACTOR'S EQUIPMENT OBSTRUCTS THE CHANNEL AS TO MAKE DIFFICULT OR ENDANGER THE SAFE PASSAGE OF VESSELS, CONTRACTOR SHALL MAKE REASONABLE EFFORTS TO AFFORD A PRACTICABLE AND SAFE PASSAGE. UPON THE COMPLETION OF THE WORK THE CONTRACTOR SHALL PROMPTLY REMOVE THE DREDGE EQUIPMENT, ETC. INCLUDING BUOYS AND OTHER MARKERS TO ALLOW SAFE PASSAGE. IN ADDITION, THE CONTRACTOR WILL NOT OBSTRUCT NAVIGATION DURING NON-WORKING PERIODS, AND ANY SUSPENSION OF WORK THAT OCCURS FOR THE DURATION OF THE PROJECT. THE CONTRACTOR WILL ALSO BE REQUIRED TO REMOVE OBSTRUCTIONS (INCLUDING TURBIDITY CURTAINS, ONCE TURBIDITY IS BELOW 29 NTUS ABOVE BACKGROUND) TO NAVIGATION DURING THE EVENING AFTER NORMAL WORKING HOURS AND WILL MAINTAIN CLOSE COMMUNICATION WITH THE CITY AND CITY HARBORMASTER AS TO TRAFFIC CONDITIONS AND TO ANY PROBLEMS THAT ARISE.

15. DREDGE/BARGE OPERATOR WILL MONITOR VHF CH. 16 AT ALL TIMES DURING OPERATIONS TO COMMUNICATE WITH VESSELS.

16. WITHIN TEN (10) BUSINESS DAYS OF THE CITY RECEIVING THE FINAL POST-DREDGE SURVEY, THE CITY WILL THOROUGHLY EXAMINE THE DREDGING PORTION OF THE WORK FOR DETERMINATION OF ACCEPTABILITY OF PERFORMANCE AND PAYMENT. SHOULD ANY SHOALS, LUMPS, OR OTHER LACK OF CONTRACT REQUIRED DREDGING DEPTH, WIDTH, OR SLOPE (I.E. LACK OF ACCEPTABLE CONTRACT PERFORMANCE) BE DISCLOSED BY THIS EXAMINATION, THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH THE CONTRACT BY DREDGING THE AFFECTED SURFACE UNTIL THE CONDITION IS CORRECTED. IF RE-DREDGING IS REQUIRED TO CORRECT THE UNACCEPTABLE WORK, THE DREDGING WILL NOT BE PAID FOR ABOVE THE MAXIMUM PAYMENT SET FORTH IN THE CONTRACT. FINAL ACCEPTANCE OF A CORRECTED WORK AREA SHALL NOT CHANGE THE TIME OF PAYMENT, WORK SCHEDULE, RETAINED PERCENTAGES OF THE WHOLE OR ANY PART OF THE WORK. ANY COSTS FOR ADDITIONAL RE-SURVEYS REQUIRED TO CHECK AREAS OF NON-PERFORMANCE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

17. SUBSTANTIAL COMPLETION WILL BE ACCEPTED AND APPROVED BY THE CITY WHEN ALL DREDGING AND EXCAVATION HAS BEEN COMPLETED PER THE PLANS AND SPECIFICATIONS, AND VERIFIED BY THE ENGINEER OF RECORD THROUGH THE POST-DREDGE SURVEY PROVIDED BY THE CONTRACTOR.

CITY OF NAPLES, FLORIDA — ON THE GULF

REV.	BY	DATE	DESCRIPTION
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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856
DATE:

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CLIENT: CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT: EAST NAPLES BAY DREDGING

TITLE: CONSTRUCTION NOTES

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (800) 477-7275
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JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-003

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-000.dwg Feb 15, 2013 - 9:18am

ADDITIONAL DREDGE CONSTRUCTION NOTES (CONTINUED...)

20. NEAR COMPLETION OF THE PROJECT THE CITY AND CONTRACTOR WILL CONDUCT A PRE-FINAL INSPECTION. IN ADDITION TO THE COMPLETION OF POST-DREDGE SURVEY, THE CITY WILL INSPECT FOR DEMOBILIZATION AND CLEAN-UP OF TEMPORARY STAGING AREAS. THE CITY WILL PERFORM THE PRE-FINAL INSPECTION TO VERIFY WORK IS COMPLETE AND READY FOR FINAL ACCEPTANCE. THE CITY PRE-FINAL INSPECTION MAY RESULT IN ADDITIONAL WORK TO BE DONE. THE CONTRACTOR SHALL ENSURE ITEMS ARE CORRECTED BEFORE NOTIFYING THE CITY SO THAT A FINAL INSPECTION CAN BE SCHEDULED. ANY ITEMS NOTED ON THE PRE-FINAL INSPECTION SHALL BE CORRECTED IN A TIMELY MANNER. PRE-FINAL INSPECTION AND DEFICIENCY CORRECTIONS SHALL BE ACCOMPLISHED WITHIN THE PROJECT COMPLETION PERIOD.

21. QA/QC FIELD CHECKS BY THE CONTRACTOR WITH THE CITY AND/OR ENGINEER PRESENT MUST BE CONDUCTED PRIOR TO THE CONTRACTOR ORDERING THE SURVEY IN EACH CANAL. FIELD CHECKS BY THE CITY AND/OR ENGINEER WILL NOT CONSTITUTE ACCEPTANCE OF WORK AS BASIS FOR COMPLETION OR PAYMENT. FINAL INSPECTION WILL BE SCHEDULED BY THE CITY BASED UPON THE RESULTS OF PRE-FINAL INSPECTION WITH THE CITY/ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY WHEN READY FOR THE FINAL INSPECTION AND THE CITY WILL SCHEDULE THE INSPECTION TO BE PERFORMED WITHIN TEN (10) BUSINESS DAYS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ASSURING THAT WORK WILL BE COMPLETE AND ACCEPTABLE BY THE FINAL INSPECTION DATE. CONTRACTOR'S FAILURE TO HAVE THE WORK COMPLETED BY THIS INSPECTION WILL BE CAUSE FOR THE CITY TO BILL THE CONTRACTOR FOR THE CITY'S ADDITIONAL INSPECTION COSTS AND POSSIBLE LIQUIDATED DAMAGES.

22. THE CONTRACTOR SHALL ALSO INVESTIGATE THE AVAILABILITY OF ANY STAGING, STORAGE, AND STOCK PILING AREAS AND SHALL MAKE ALL ARRANGEMENTS FOR USE OF ANY SUCH AREAS FOR THE DELIVERY OF ANY MATERIALS AND EQUIPMENT TO BE USED IN COMPLETING THE WORK. THIS PROJECT HAS BEEN COMMISSIONED BY THE CITY OF NAPLES, FLORIDA AND USE OF THE NAPLES LANDINGS PARK FOR TEMPORARY LOADING AND UNLOADING OF MATERIAL WILL BE AT NO COST UNLESS LOADING, UNLOADING OR ANY OTHER ACTIVITY BY THE CONTRACTOR INTERFERES WITH THE DAY-TO-DAY OPERATION OF THE LANDINGS. OPERATIONS THAT RESULT IN CONFLICTS WITH OTHER USERS OF THE LANDINGS WILL REQUIRE A $300 HALF DAY FEE OR A $500 FULL DAY FEE. 24-HOUR ADVANCE NOTICE OF THE LANDINGS USE SHALL BE GIVEN TO THE CITY OF NAPLES HARBORMASTER, ROGER JACOBSEN, AT (239) 777-8310, (RJACOBSEN@NAPLESGOV.COM).

STANDARD MANATEE CONSTRUCTION CONDITIONS:

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING MANATEE PROTECTION CONSTRUCTION CONDITIONS:

1. THE CONTRACTOR SHALL INSTRUCT ALL PERSONNEL ASSOCIATED WITH THE PROJECT OF THE POTENTIAL PRESENCE OF MANATEES AND THE NEED TO AVOID COLLISIONS WITH MANATEES. ALL CONSTRUCTION PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF MANATEE(S).

2. THE CONTRACTOR SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT OF 1972, THE ENDANGERED SPECIES ACT OF 1973, AND THE FLORIDA MANATEE SANCTUARY ACT.

3. TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED, ARE PROPERLY SECURED, AND ARE REGULARLY MONITORED TO AVOID MANATEE ENTRAPMENT. BARRIERS MUST NOT BLOCK MANATEE ENTRY TO OR EXIT FROM ESSENTIAL HABITAT.

4. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT "NO WAKE/IDLE" SPEEDS AT ALL TIMES WHILE IN THE CONSTRUCTION AREA AND WHILE IN WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR FOOT CLEARANCE FROM THE BOTTOM. ALL VESSELS WILL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.

5. IF MANATEE(S) ARE SEEN WITHIN 100 YARDS OF THE ACTIVE DAILY CONSTRUCTION/DREDGING OPERATION OR VESSEL MOVEMENT, ALL APPROPRIATE PRECAUTIONS SHALL BE IMPLEMENTED TO ENSURE PROTECTION OF THE MANATEE. THESE PRECAUTIONS SHALL INCLUDE THE OPERATION OF ALL MOVING EQUIPMENT NO CLOSER THAN 50 FEET OF A MANATEE. OPERATION OF ANY EQUIPMENT CLOSER THAN 50 FEET TO A MANATEE SHALL NECESSITATE IMMEDIATE SHUTDOWN OF THAT EQUIPMENT. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS DEPARTED THE PROJECT AREA OF ITS OWN VOLITION.

6. ANY COLLISION WITH AND/OR INJURY TO A MANATEE SHOULD BE REPORTED IMMEDIATELY TO THE FWC HOTLINE AT 1-888-404-FWCC. COLLISION AND/OR INJURY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSONVILLE (1-904-232-2580) FOR NORTH FLORIDA OR VERO BEACH (1-772-562-3909) IN SOUTH FLORIDA.

7. TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO AND DURING ALL CONSTRUCTION/DREDGING ACTIVITIES. ALL SIGNS ARE TO BE REMOVED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT. A SIGN MEASURING AT LEAST 3 FT. BY 4 FT. WHICH READS "CAUTION: MANATEE AREA" WILL BE POSTED IN A LOCATION PROMINENTLY VISIBLE TO WATER RELATED CONSTRUCTION CREWS. A SECOND SIGN SHOULD BE POSTED IF VESSELS ARE ASSOCIATED WITH THE CONSTRUCTION, AND SHOULD BE PLACED VISIBLE TO THE VESSEL OPERATOR. THE SECOND SIGN SHOULD BE AT LEAST 8-½" BY 11" WHICH READS "CAUTION: MANATEE HABITAT. IDLE SPEED IS REQUIRED IF OPERATING A VESSEL IN THE CONSTRUCTION AREA. ALL EQUIPMENT MUST BE SHUTDOWN IF A MANATEE COMES WITHIN 50 FEET OF OPERATION.

East Naples Bay Dredge Volumes

Canal Name	Dredge Stations	DT Volume (-5.4') (cy)
Canal DD-DD	8+00 to 10+50	77
Canal CC-CC	No Dredging	
Canal BB-BB	2+75 to 9+25	147
Canal AA-AA	2+50 to 4+25	38
Canal Z-Z	1+75 to 4+00	59
Canal Y-Y	2+50 to 4+00	78
Canal X-X	0+75 to 2+50	70
Canal W-W	2+25 to 4+50	44
	5+25 to 5+75	10
	6+50 to 9+00	56
	9+75 to 11+75	55
	12+75 to 14+25	40
	15+00 to 15+25	5
	15+50 to 17+00	50
	Canal Total:	***260***
Canal V-V	5+75 to 9+75	244
Canal U-U	No Dredging	
Canal T-T		
Canal S-S	0+00 to 0+75	13
Canal R-R	0+75 to 2+25	47
	2+75 to 5+00	69
	12+50 to 13+50	9
	15+50 to 17+00	8
	Canal Total:	***133***
Canal Q-Q	0+00 to 1+25	6
	2+75 to 4+25	3
	Canal Total:	***9***
Canal P-P	0+75 to 1+25	4
Canal O-O	No Dredging	
Canal N-N		
Canal M-M	5+75 to 8+25 (3)	1
	10+50 to 11+50	1
	Canal Total:	***2***
Canal L-L	No Dredging	
Canal K-K		
Canal J-J		
Canal I-I		
Canal H-H		
Canal G-G		
Canal F-F		
Canal E-E		
Canal D-D		
Canal C-C	4+75 to 5+25	5
Canal B-B	No Dredging	
Canal A-A	1+00 to 4+00	47
	9+00 to 16+75	186
	Canal Total:	***233***
Canal Main B/B1	No Dredging	
		DT Volume (-5.4') (cy)
	Overall Total:	**1,372**

CITY OF NAPLES, FLORIDA — ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CONSTRUCTION NOTES

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 471-7275
FAX: (813) 636-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-004

CONSTRUCTION DRAWINGS 100%

User Name: z1685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-000.dwg Feb 15, 2013 - 9:19am

CITY OF NAPLES, FLORIDA
ON THE GULF

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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
TEMPORARY STAGING AND DEWATERING AREAS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL.: (800) 477-7275
FAX: (813) 636-6582

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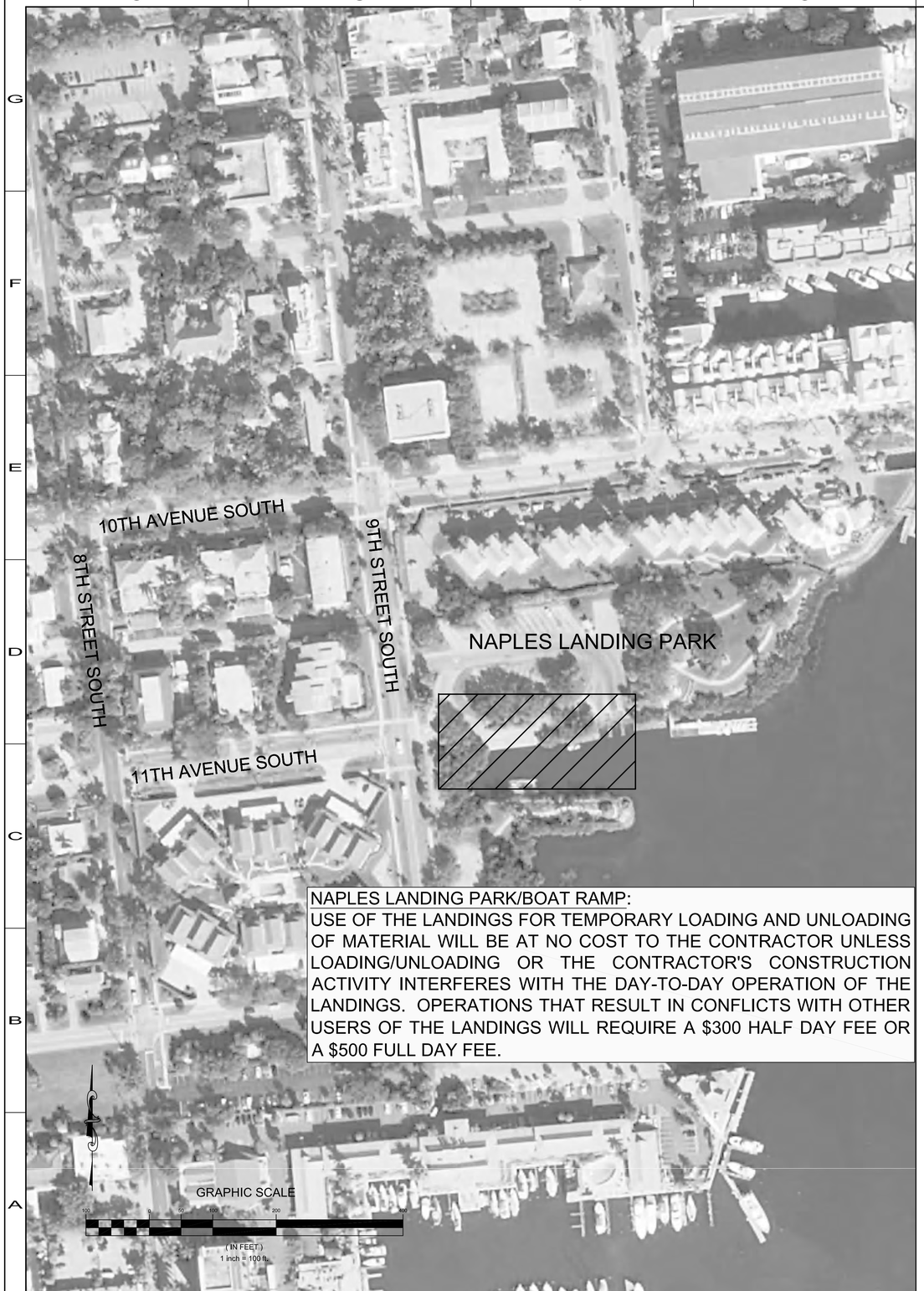
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-005

CONSTRUCTION DRAWINGS 100%

User Name: 21985
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-005.dwg Feb 14, 2013 - 1:37pm



NAPLES LANDING PARK/BOAT RAMP:
USE OF THE LANDINGS FOR TEMPORARY LOADING AND UNLOADING OF MATERIAL WILL BE AT NO COST TO THE CONTRACTOR UNLESS LOADING/UNLOADING OR THE CONTRACTOR'S CONSTRUCTION ACTIVITY INTERFERES WITH THE DAY-TO-DAY OPERATION OF THE LANDINGS. OPERATIONS THAT RESULT IN CONFLICTS WITH OTHER USERS OF THE LANDINGS WILL REQUIRE A $300 HALF DAY FEE OR A $500 FULL DAY FEE.

CITY OF NAPLES, FLORIDA
ON THE GULF

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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
TEMPORARY STAGING AND DEWATERING AREAS

ATKINS
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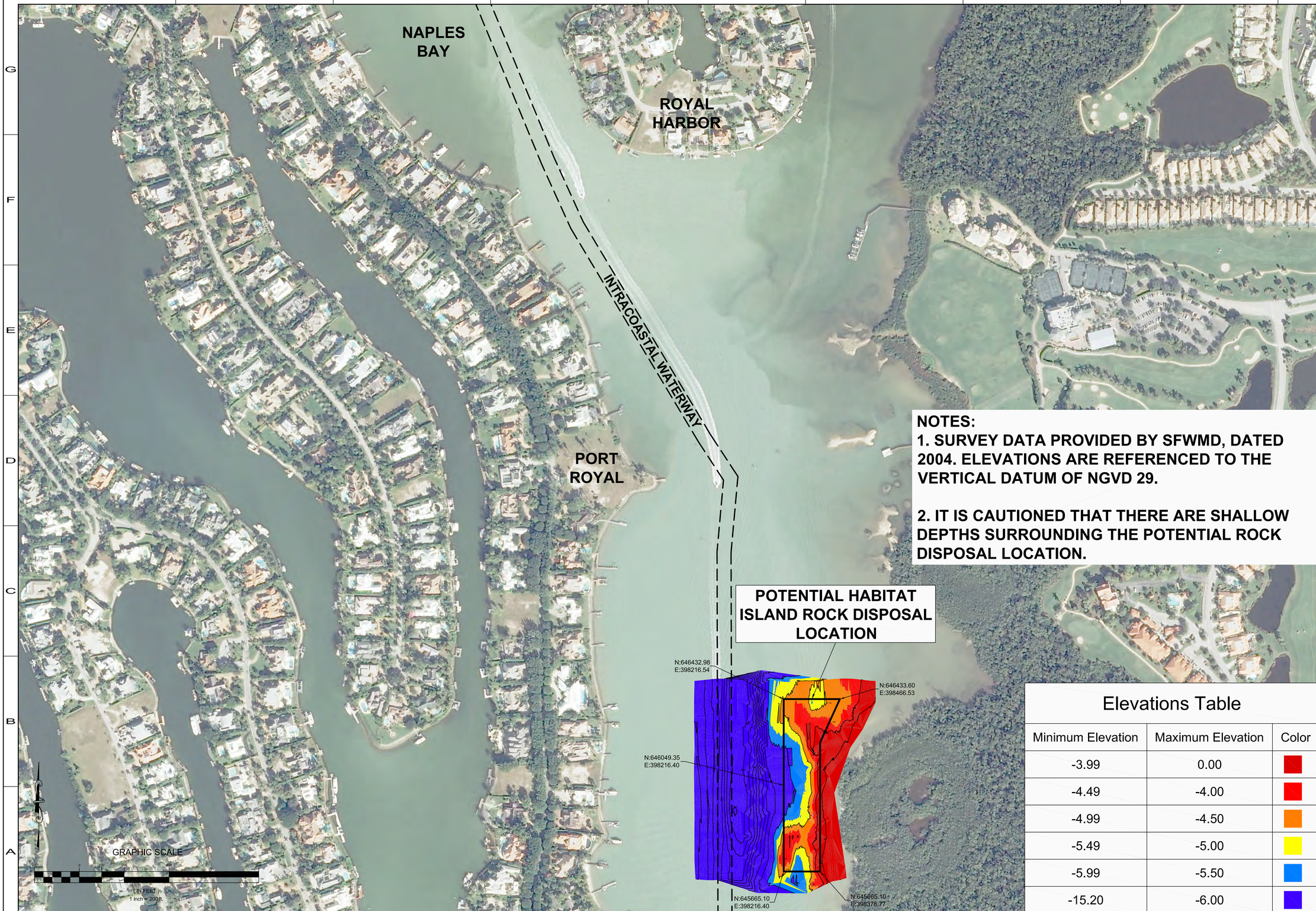
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-006

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-005.dwg Feb 14, 2013 - 1:38pm



NOTES:

1. SURVEY DATA PROVIDED BY SFWMD, DATED 2004. ELEVATIONS ARE REFERENCED TO THE VERTICAL DATUM OF NGVD 29.

2. IT IS CAUTIONED THAT THERE ARE SHALLOW DEPTHS SURROUNDING THE POTENTIAL ROCK DISPOSAL LOCATION.

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-15.20	-6.00	

CITY OF NAPLES, FLORIDA — ON THE GULF

REV	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
ALTERNATIVE ROCK DISPOSAL LOCATION

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 474-7275
FAX: (813) 636-0582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
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APPROVED:	BDF
SHEET NO.	C-007

CONSTRUCTION DRAWINGS 100%

User Name: 21585
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-005.dwg Feb 15, 2013 - 10:45am

NOTE:
1. DREDGE TEMPLATE REPRESENTS THE BOTTOM WIDTH OF THE DREDGE CUT (SEE CROSS SECTIONS FOR SIDE SLOPE GRADING OF 2:1)
2. DREDGE EXTENTS REPRESENT THE START/END STATIONS OF DREDGING ACTIVITIES
3. SEE APPENDIX C IN CONTRACT DOCUMENTS FOR DETAILED ROCK CORE INFORMATION

CONSTRUCTION DRAWINGS 100%

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION
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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
DREDGE TEMPLATE DESIGN ALIGNMENTS

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JOB NO.:	100032809
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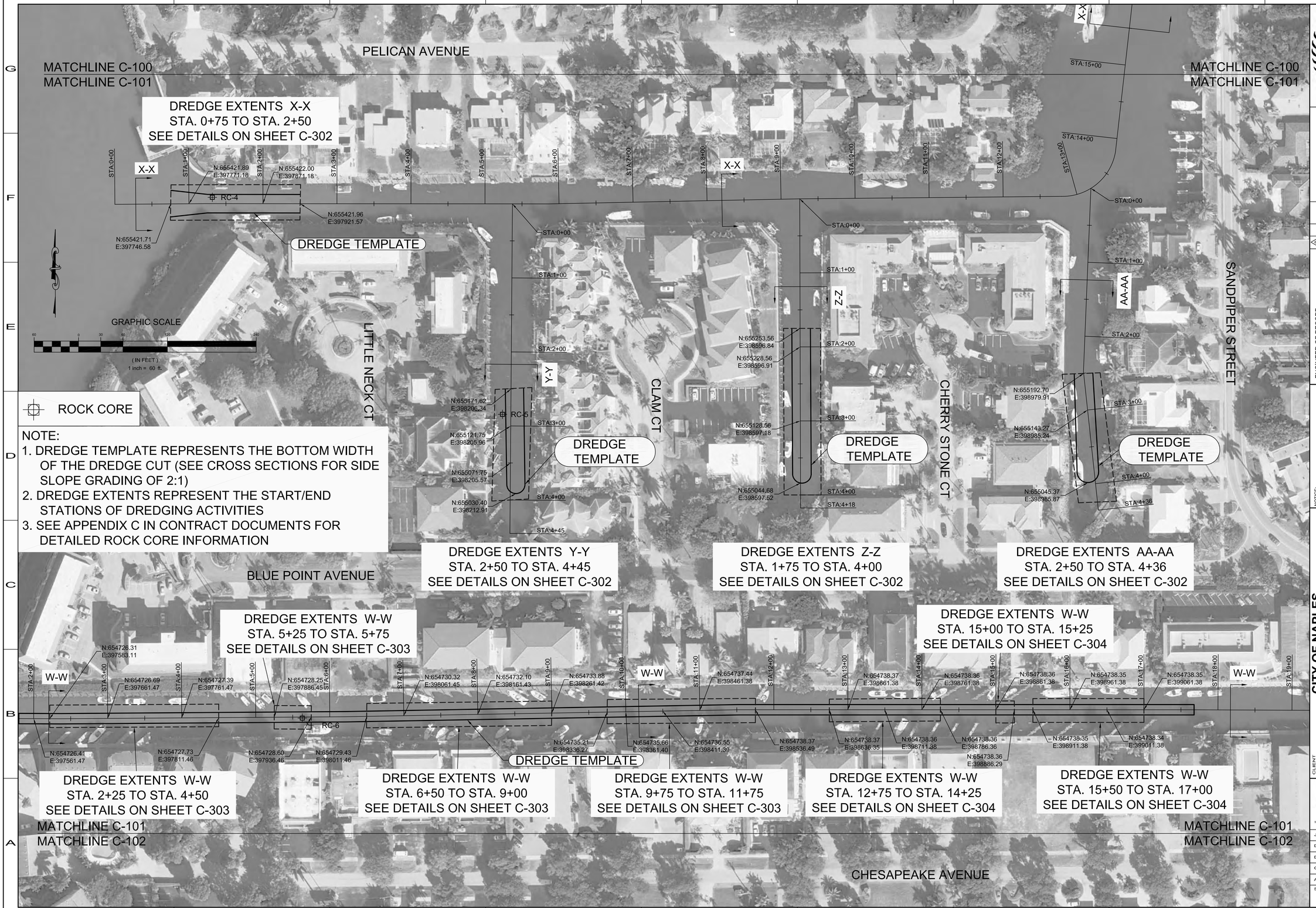
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-100

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-100.dwg Feb 14, 2013 - 3:01pm



CITY OF NAPLES, FLORIDA ON THE GULF

REV	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
DREDGE TEMPLATE DESIGN ALIGNMENTS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
PHONE: (813) 639-0275
FAX: (813) 639-4080

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-101

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-100.dwg Feb 14, 2013 - 3:02pm

NOTE:
1. DREDGE TEMPLATE REPRESENTS THE BOTTOM WIDTH OF THE DREDGE CUT (SEE CROSS SECTIONS FOR SIDE SLOPE GRADING OF 2:1)
2. DREDGE EXTENTS REPRESENT THE START/END STATIONS OF DREDGING ACTIVITIES
3. SEE APPENDIX C IN CONTRACT DOCUMENTS FOR DETAILED ROCK CORE INFORMATION

CONSTRUCTION DRAWINGS 100%

CITY OF NAPLES, FLORIDA — ON THE GULF

REV.	DATE	DESCRIPTION
		ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT: CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT: EAST NAPLES BAY DREDGING

TITLE: DREDGE TEMPLATE DESIGN ALIGNMENTS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
PH. (813) 282-7275
FAX. (813) 639-4082

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-102

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-100.dwg Feb 14, 2013 - 3:02pm

NOTE:
1. DREDGE TEMPLATE REPRESENTS THE BOTTOM WIDTH OF THE DREDGE CUT (SEE CROSS SECTIONS FOR SIDE SLOPE GRADING OF 2:1)
2. DREDGE EXTENTS REPRESENT THE START/END STATIONS OF DREDGING ACTIVITIES
3. SEE APPENDIX C IN CONTRACT DOCUMENTS FOR DETAILED ROCK CORE INFORMATION

CONSTRUCTION DRAWINGS 100%

CITY OF NAPLES, FLORIDA — ON THE GULF

REV	DATE	DESCRIPTION
		ORIGINAL ISSUED DATE :

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BRYAN D. FLYNN - FLORIDA P.E. #70856

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
DREDGE TEMPLATE DESIGN ALIGNMENTS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-0502

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-103

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-100.dwg Feb 14, 2013 - 3:02pm

CITY OF NAPLES FLORIDA ON THE GULF

REV.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
DREDGE TEMPLATE DESIGN ALIGNMENTS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (800) 477-7275
FAX. (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-104

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-100.dwg Feb 14, 2013 - 3:03pm

NOTE:
1. DREDGE TEMPLATE REPRESENTS THE BOTTOM WIDTH OF THE DREDGE CUT (SEE CROSS SECTIONS FOR SIDE SLOPE GRADING OF 2:1)
2. DREDGE EXTENTS REPRESENT THE START/END STATIONS OF DREDGING ACTIVITIES
3. SEE APPENDIX C IN CONTRACT DOCUMENTS FOR DETAILED ROCK CORE INFORMATION

CITY OF NAPLES, FLORIDA — ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

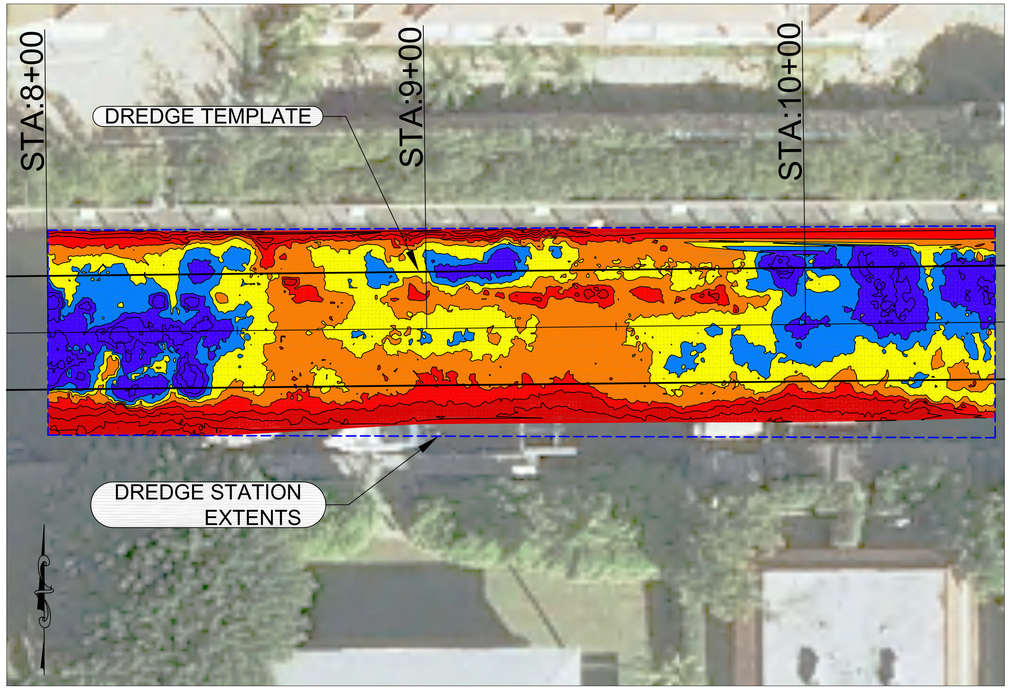
TITLE
DREDGE TEMPLATE DESIGN ALIGNMENTS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (800) 477-7275
FAX. (813) 636-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-105

CONSTRUCTION DRAWINGS 100%

User Name: 21985
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-100.dwg Feb 14, 2013 - 3:03pm



DREDGE EXTENTS DD-DD
STA. 8+00 TO STA. 10+50

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-7.45	-6.00	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

THIS AREA INTENTIONALLY LEFT BLANK

CITY OF NAPLES FLORIDA ON THE GULF

REV. NO.	DATE	DESCRIPTION

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CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

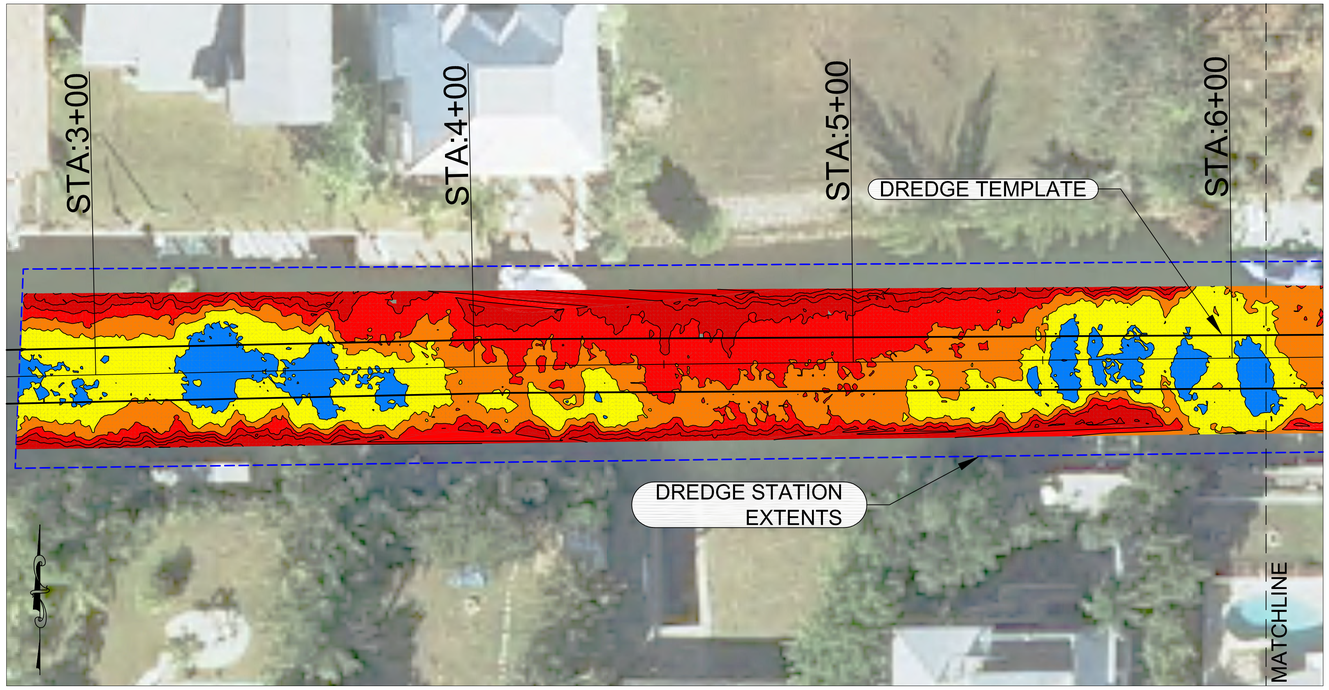
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (813) 477-7275
FAX. (813) 554-6562

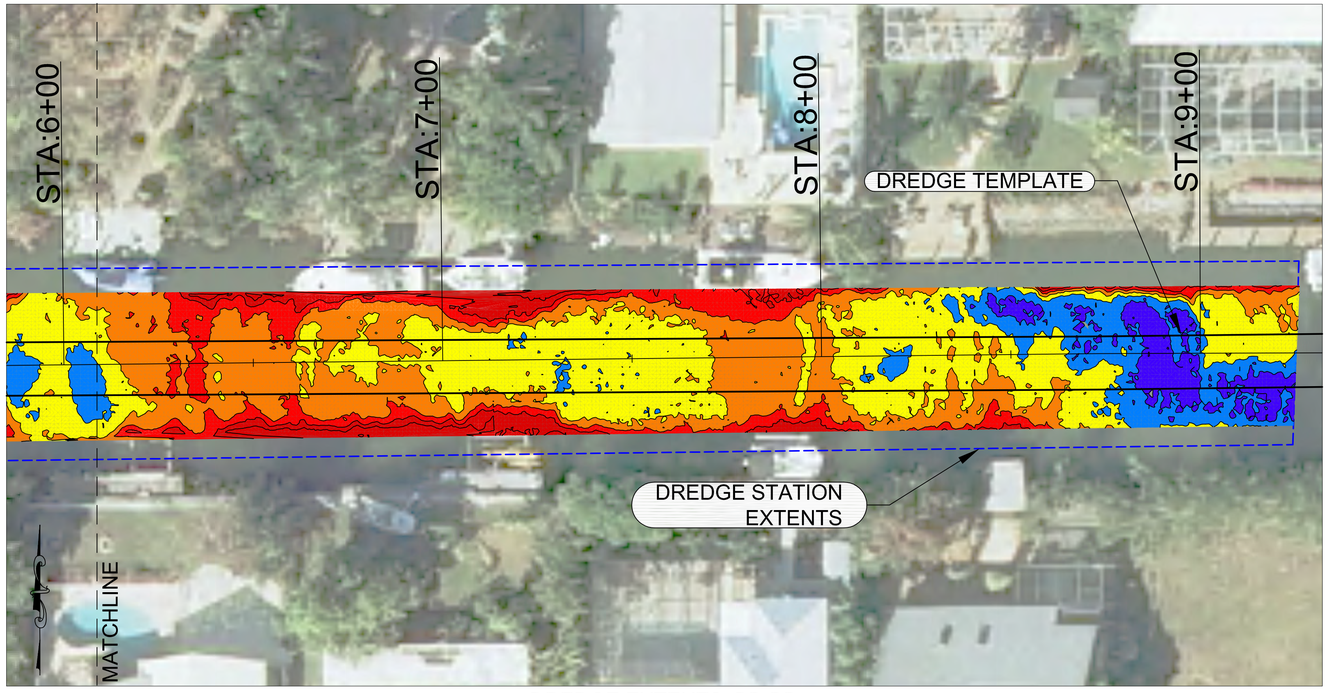
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-300

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-300.dwg Feb 14, 2013 - 1:53pm



DREDGE EXTENTS BB-BB
STA. 2+75 TO STA. 9+25



DREDGE EXTENTS BB-BB
STA. 2+75 TO STA. 9+25

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-7.05	-6.00	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

CONSTRUCTION DRAWINGS 100%

CITY OF NAPLES FLORIDA ON THE GULF

REV. NO.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

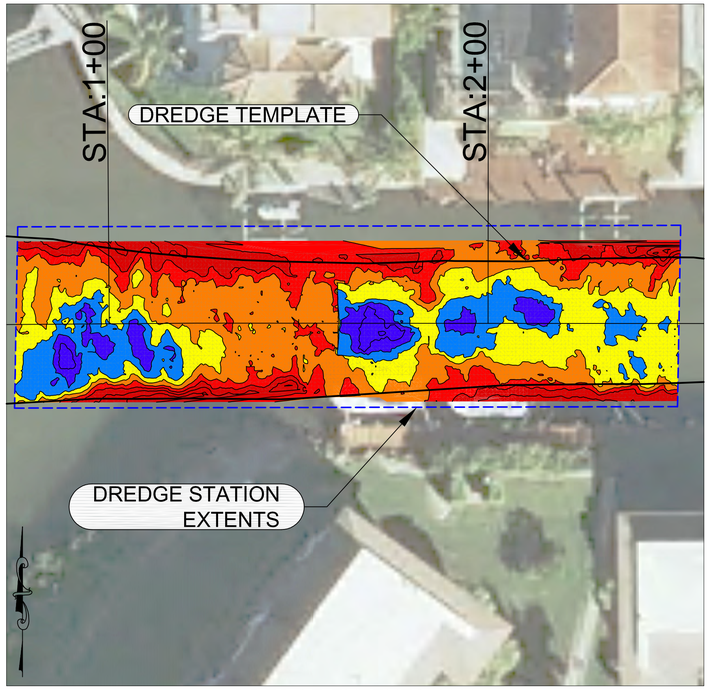
PROJECT
EAST NAPLES BAY DREDGING

TITLE
PROJECT DESIGN - DETAIL INSETS

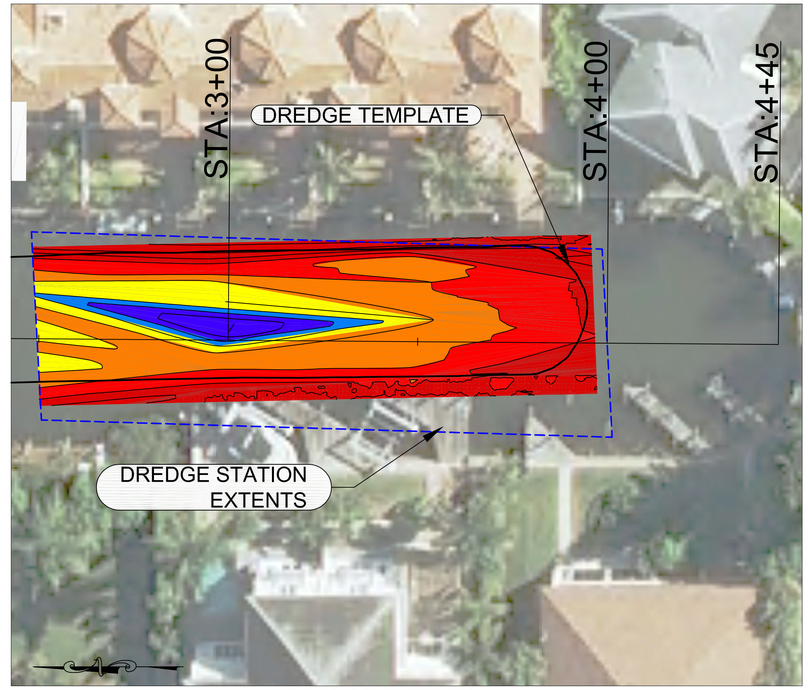
ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-301

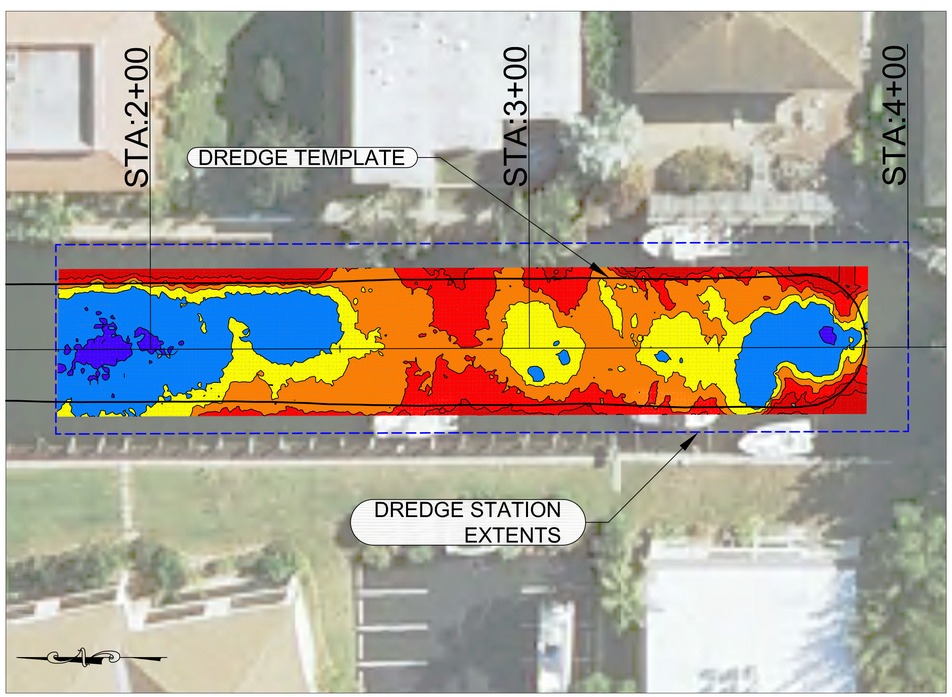
User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-301.dwg Feb 14, 2013 - 1:55pm



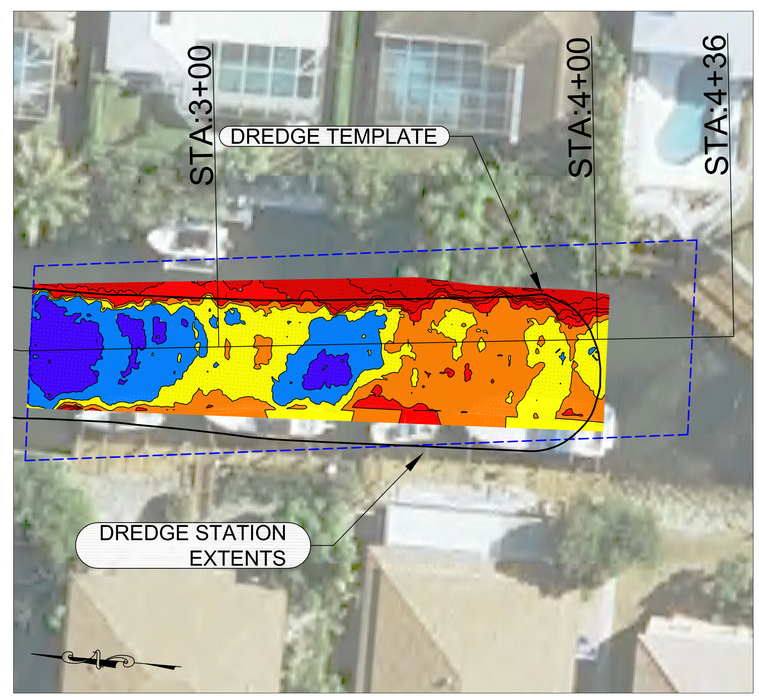
DREDGE EXTENTS X-X
STA. 0+75 TO STA. 2+50



DREDGE EXTENTS Y-Y
STA. 2+50 TO STA. 4+45



DREDGE EXTENTS Z-Z
STA. 1+75 TO STA. 4+00



DREDGE EXTENTS AA-AA
STA. 2+50 TO STA. 4+36

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-7.48	-6.00	

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

CITY OF NAPLES, FLORIDA — ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
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6		
7		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

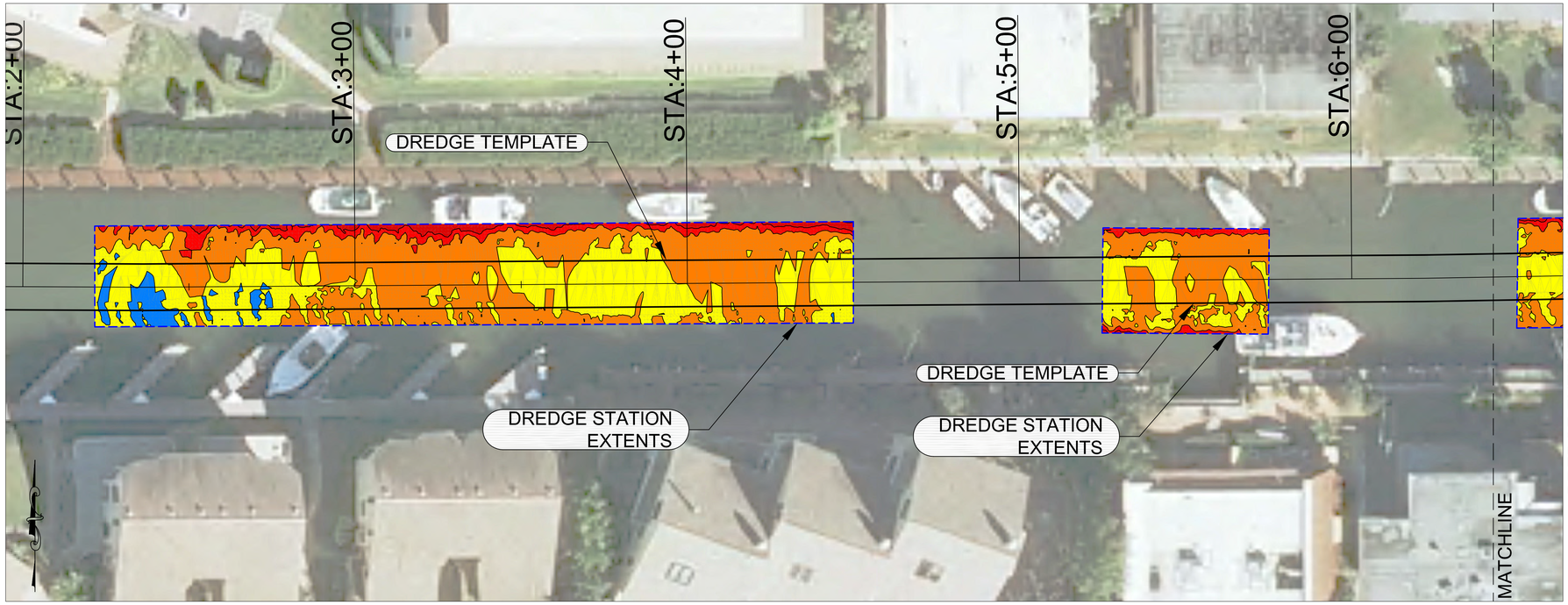
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 475-7275
FAX: (813) 636-0592

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-302

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-302.dwg Feb 14, 2013 - 1:57pm



DREDGE EXTENTS W-W
STA. 2+25 TO STA. 4+50 AND STA. 5+25 TO STA. 5+75

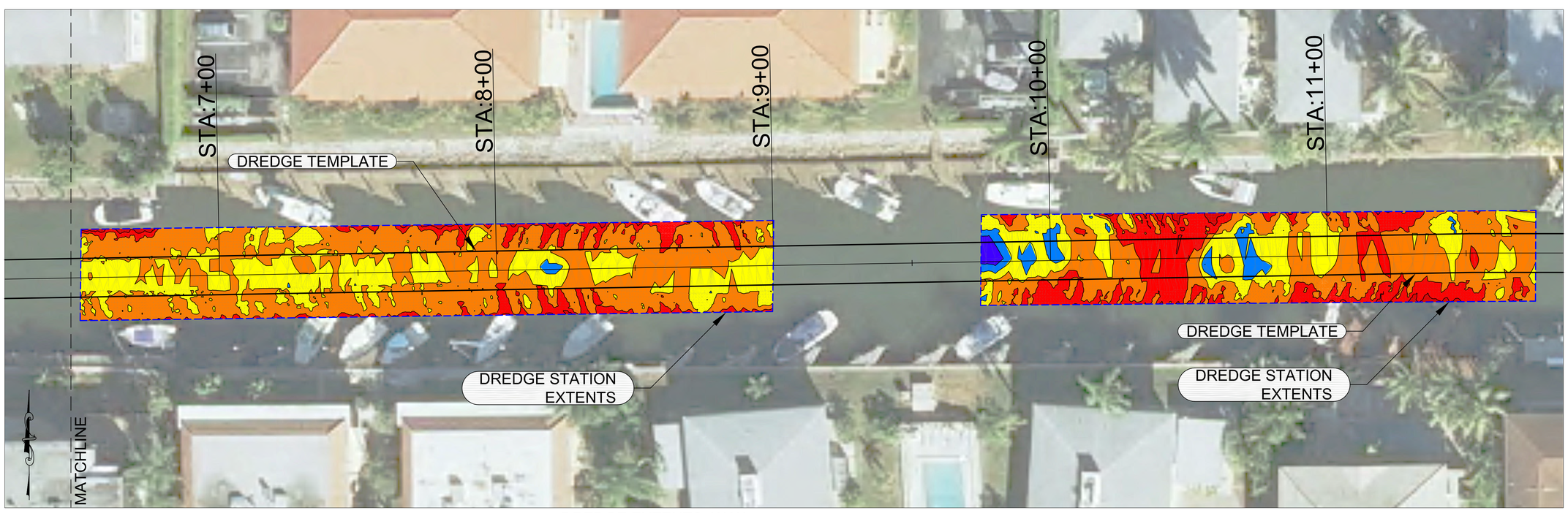
Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-6.57	-6.00	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



DREDGE EXTENTS W-W
STA. 6+50 TO STA. 9+00 AND STA. 9+75 TO STA. 11+75

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

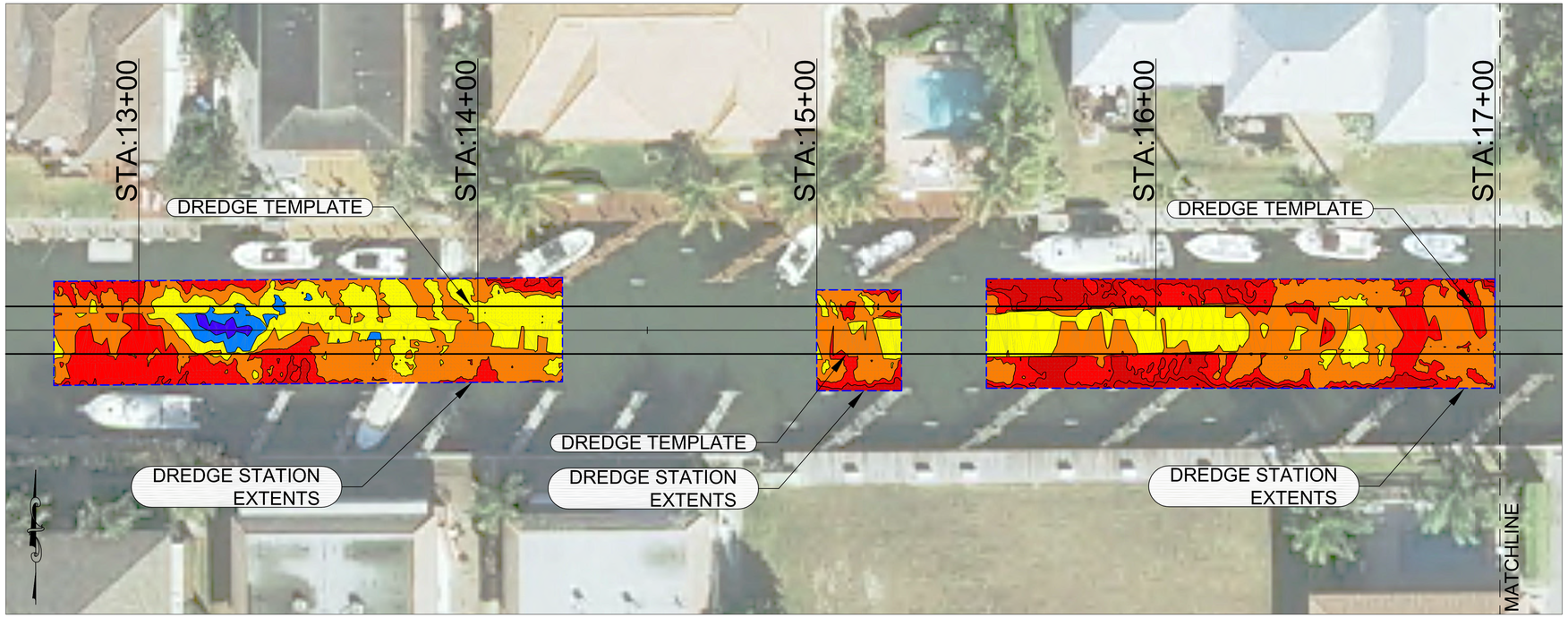
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 47A-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-303

CONSTRUCTION DRAWINGS 100%

User Name: 21985
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-303.dwg Feb 14, 2013 - 2:01pm



DREDGE EXTENTS W-W
STA. 12+75 TO STA. 14+25, STA. 15+00 TO STA. 15+25, AND STA.15+50 TO STA. 17+00

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-6.57	-6.00	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
3		
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6		
7		
8		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

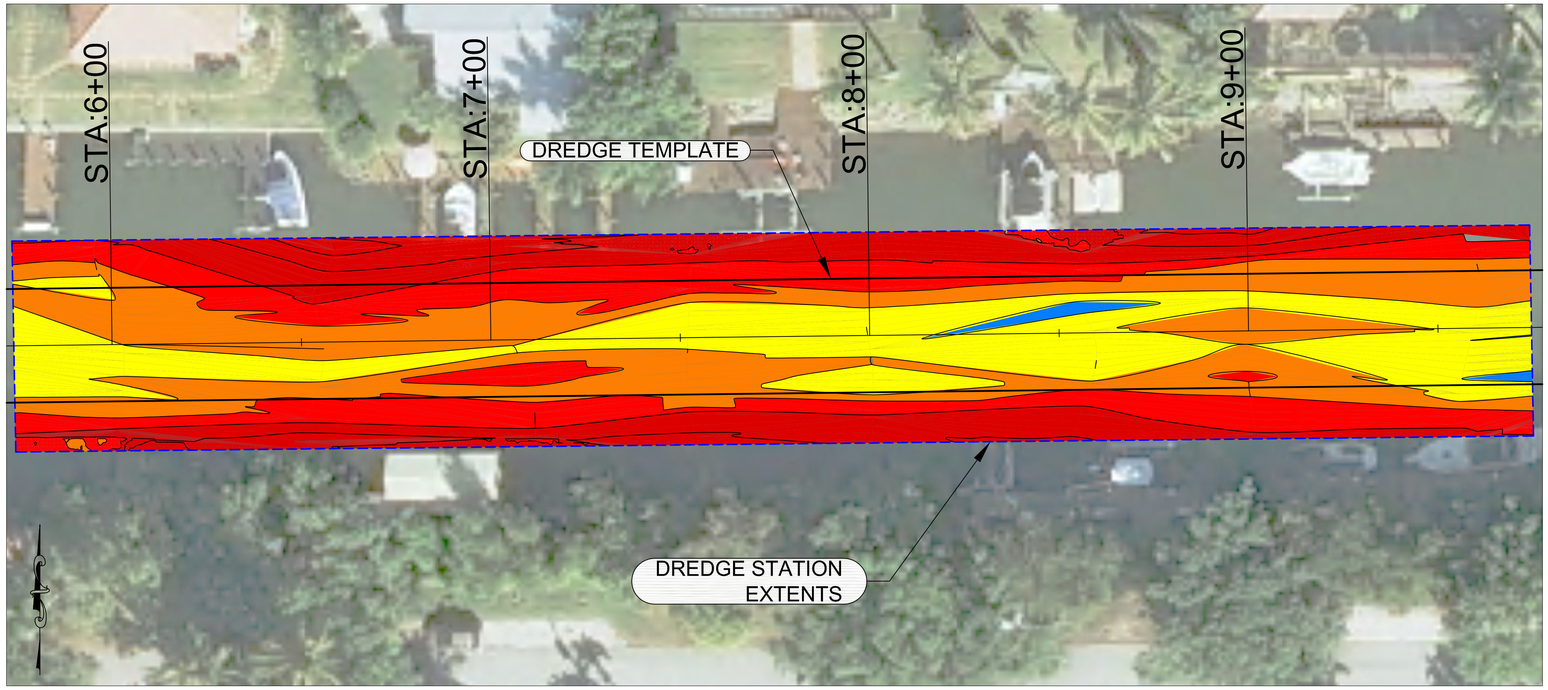
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (813) 477-7275
FAX. (813) 554-5552

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-304

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-303.dwg Feb 14, 2013 - 2:09pm



DREDGE EXTENTS V-V
STA. 5+75 TO STA. 9+75

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.80	-5.50	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

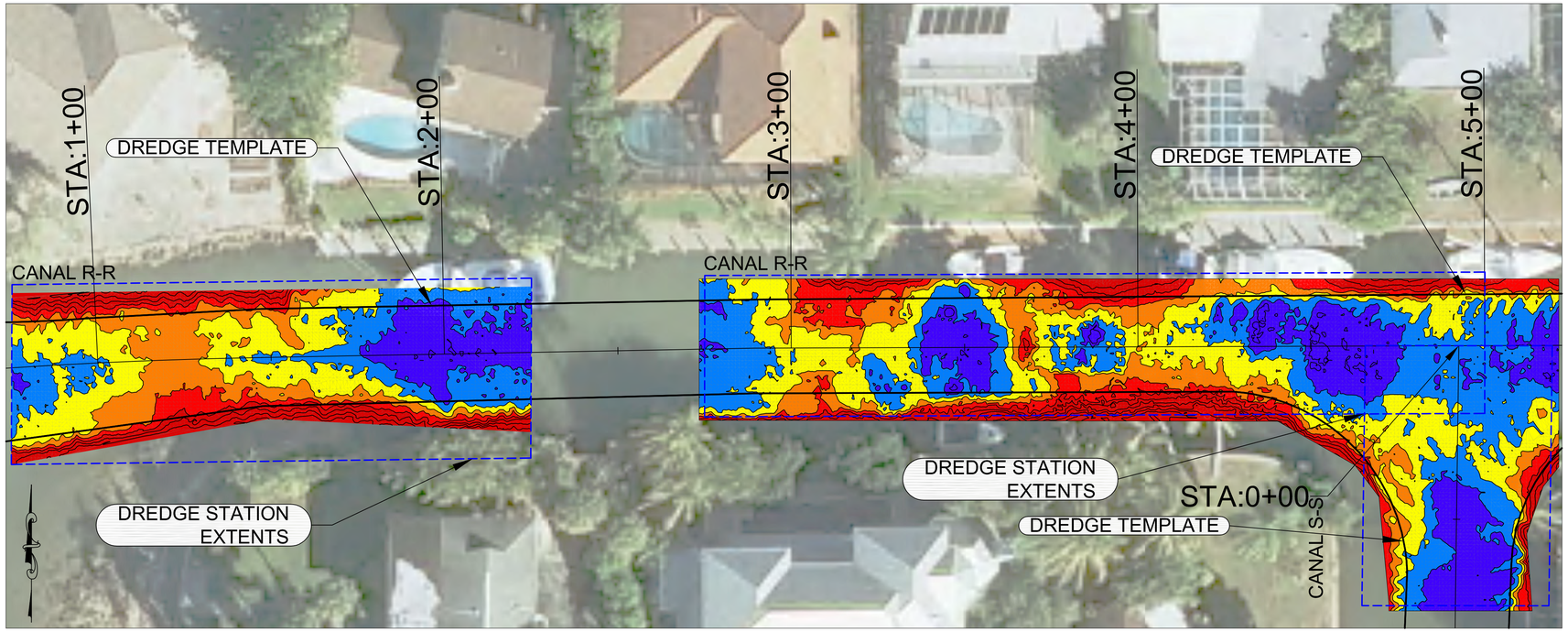
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (813) 477-7275
FAX. (813) 554-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-305

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-305.dwg Feb 14, 2013 - 2:04pm



DREDGE EXTENTS R-R
STA. 0+75 TO STA. 2+25 AND STA. 2+75 TO STA. 5+00

DREDGE EXTENTS S-S
STA. 0+00 TO STA. 0+75

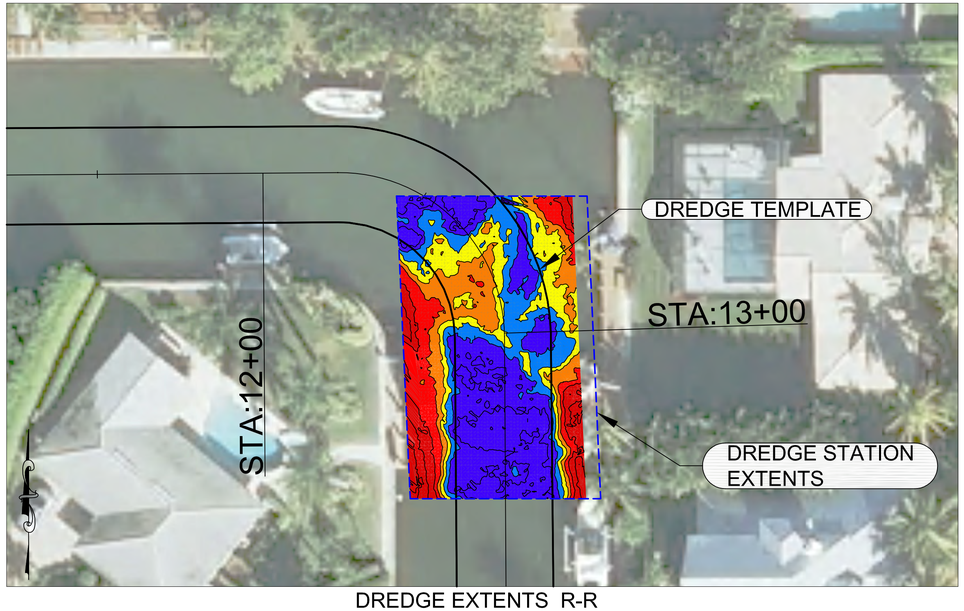
Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-7.94	-6.00	

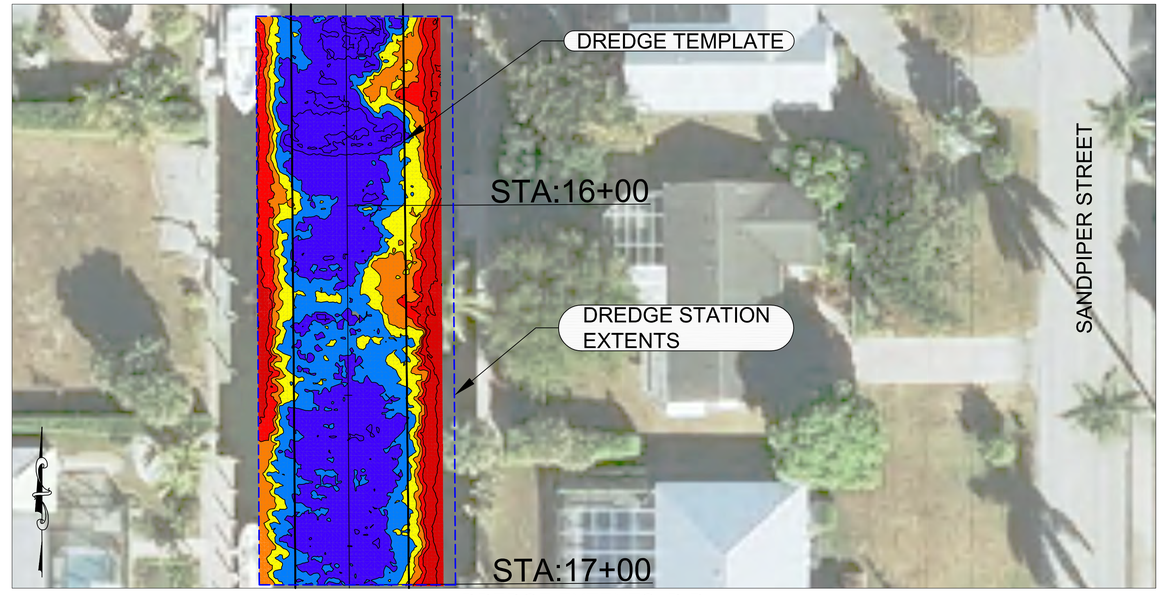
GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



DREDGE EXTENTS R-R
STA. 12+50 TO STA. 13+50



DREDGE EXTENTS R-R
STA. 15+50 TO STA. 17+00

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
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8		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

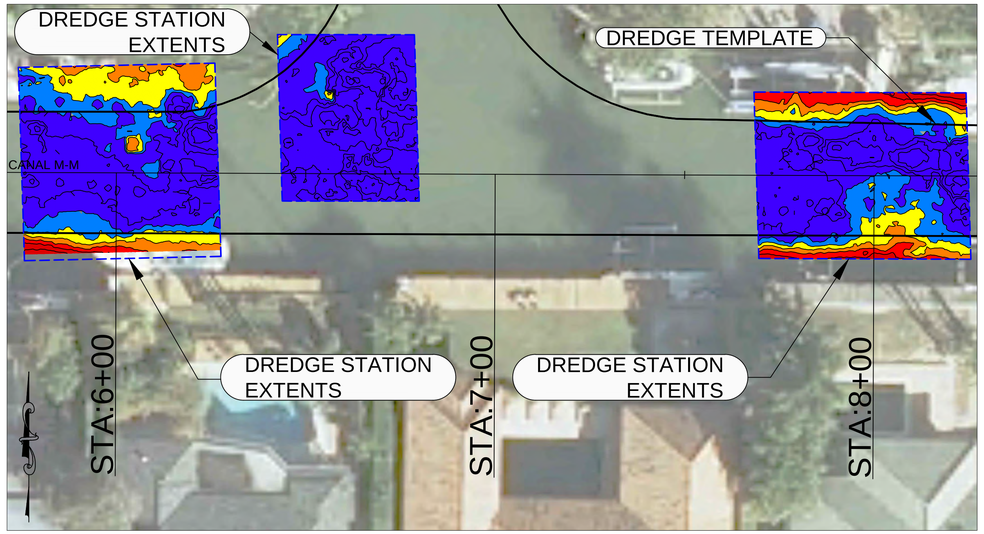
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-0562

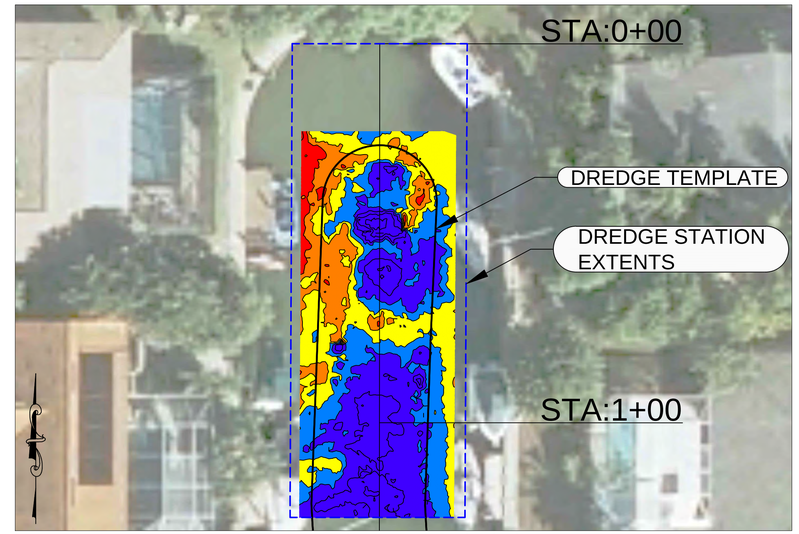
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-306

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-306.dwg Feb 14, 2013 - 2:06pm



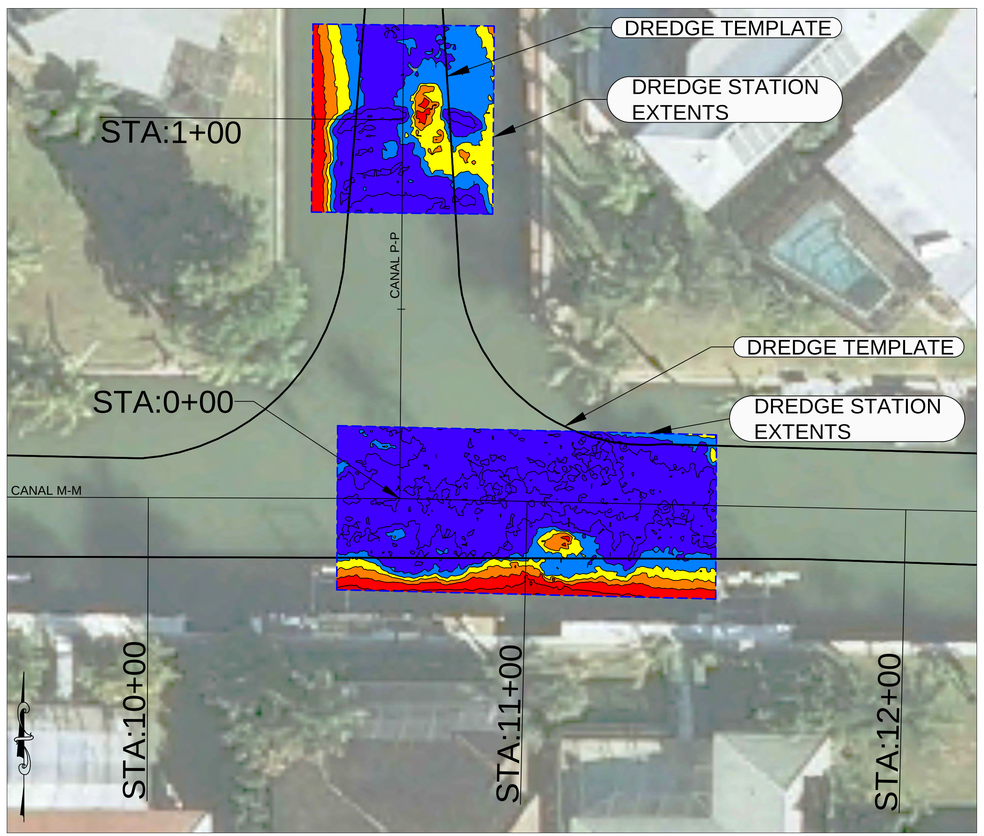
DREDGE EXTENTS M-M
THREE DREDGE AREAS BETWEEN STA. 5+75 TO 8+25



DREDGE EXTENTS Q-Q
STA. 0+00 TO 1+25

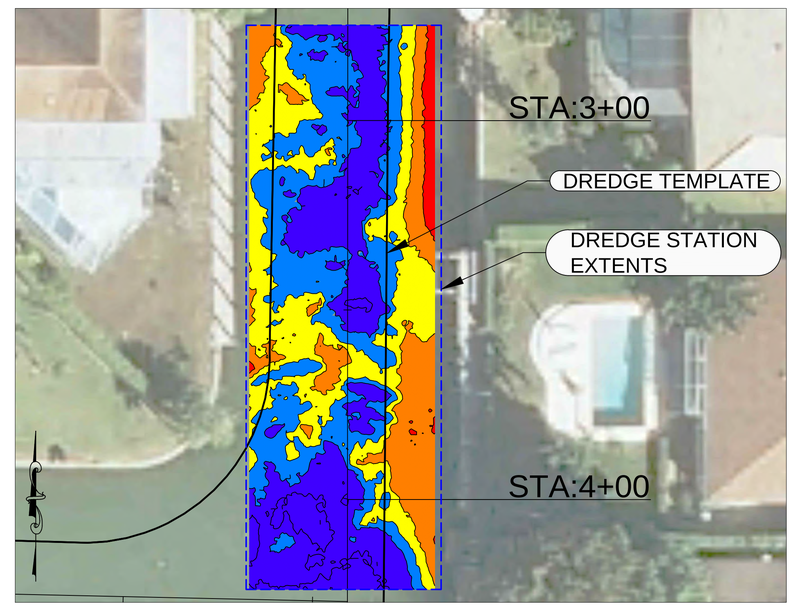
Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-8.40	-6.00	



DREDGE EXTENTS M-M
STA. 10+50 TO STA. 11+50

DREDGE EXTENTS P+P
STA. 0+75 TO STA. 1+25



DREDGE EXTENTS Q-Q
STA. 2+75 TO 4+25

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

CITY OF NAPLES FLORIDA ON THE GULF

REV.	DATE	DESCRIPTION
1		
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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

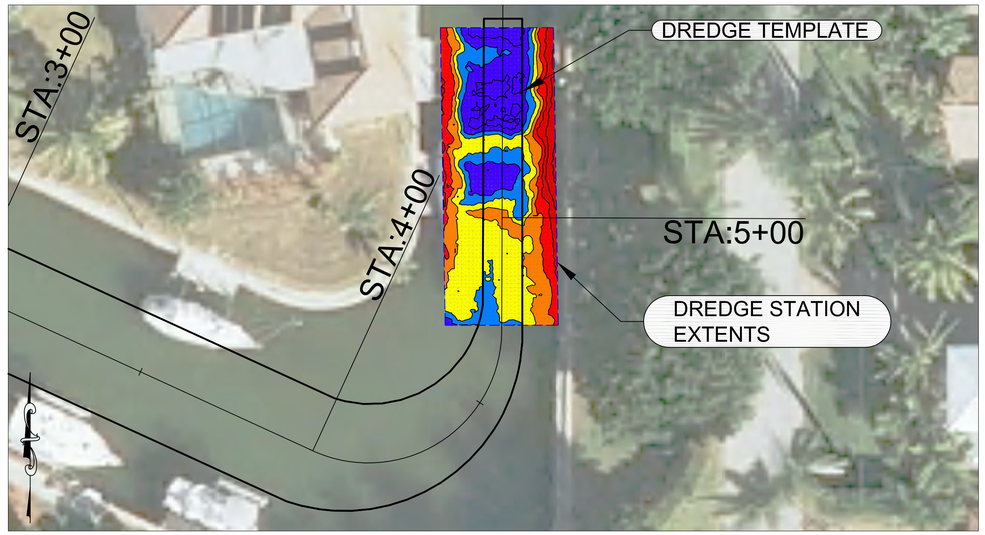
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (800) 477-7275
FAX (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-307

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-307.dwg Feb 14, 2013 - 2:11pm



DREDGE EXTENTS C-C
STA. 4+75 TO 5+25

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-6.96	-6.00	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

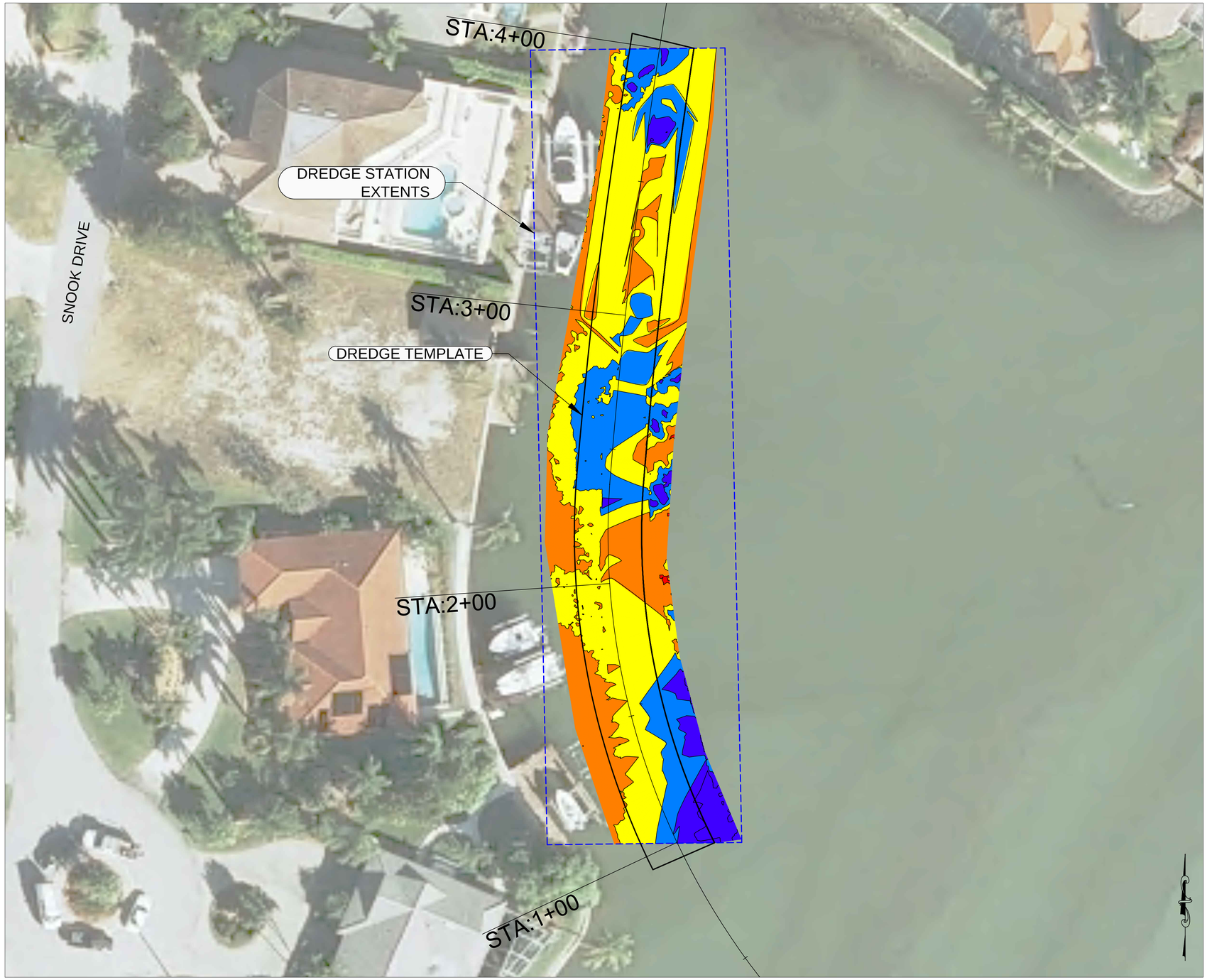
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (813) 477-7275
FAX. (813) 554-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-308

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-308.dwg Feb 14, 2013 - 2:13pm



DREDGE EXTENTS A-A
STA. 1+00 TO STA. 4+00

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-8.36	-6.00	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

CANAL A-A DETAILS CONTINUED ON C-310 TO C-311

CONSTRUCTION DRAWINGS 100%

CITY OF NAPLES FLORIDA ON THE GULF

REV. NO.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

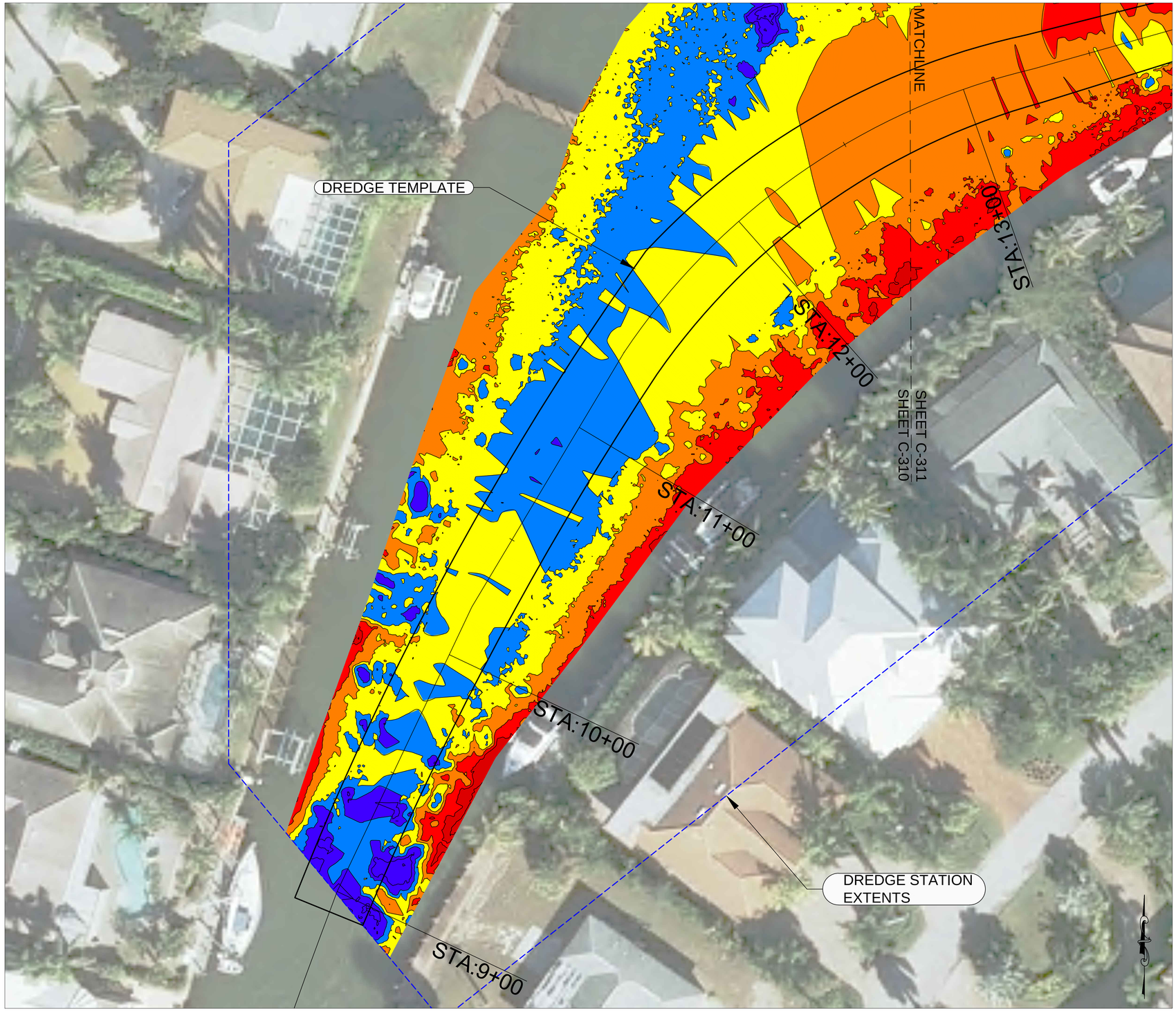
PROJECT
EAST NAPLES BAY DREDGING

TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 1100
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-309

User Name: 214885
Drawing Name: M:\Projects\EastNaples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-309.dwg Feb 14, 2013 - 2:22pm



DREDGE EXTENTS A-A - STA. 9+00 TO STA. 16+75

CONTINUED ON SHEET C-311

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-8.36	-6.00	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

CITY OF NAPLES FLORIDA ON THE GULF

REV. NO.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

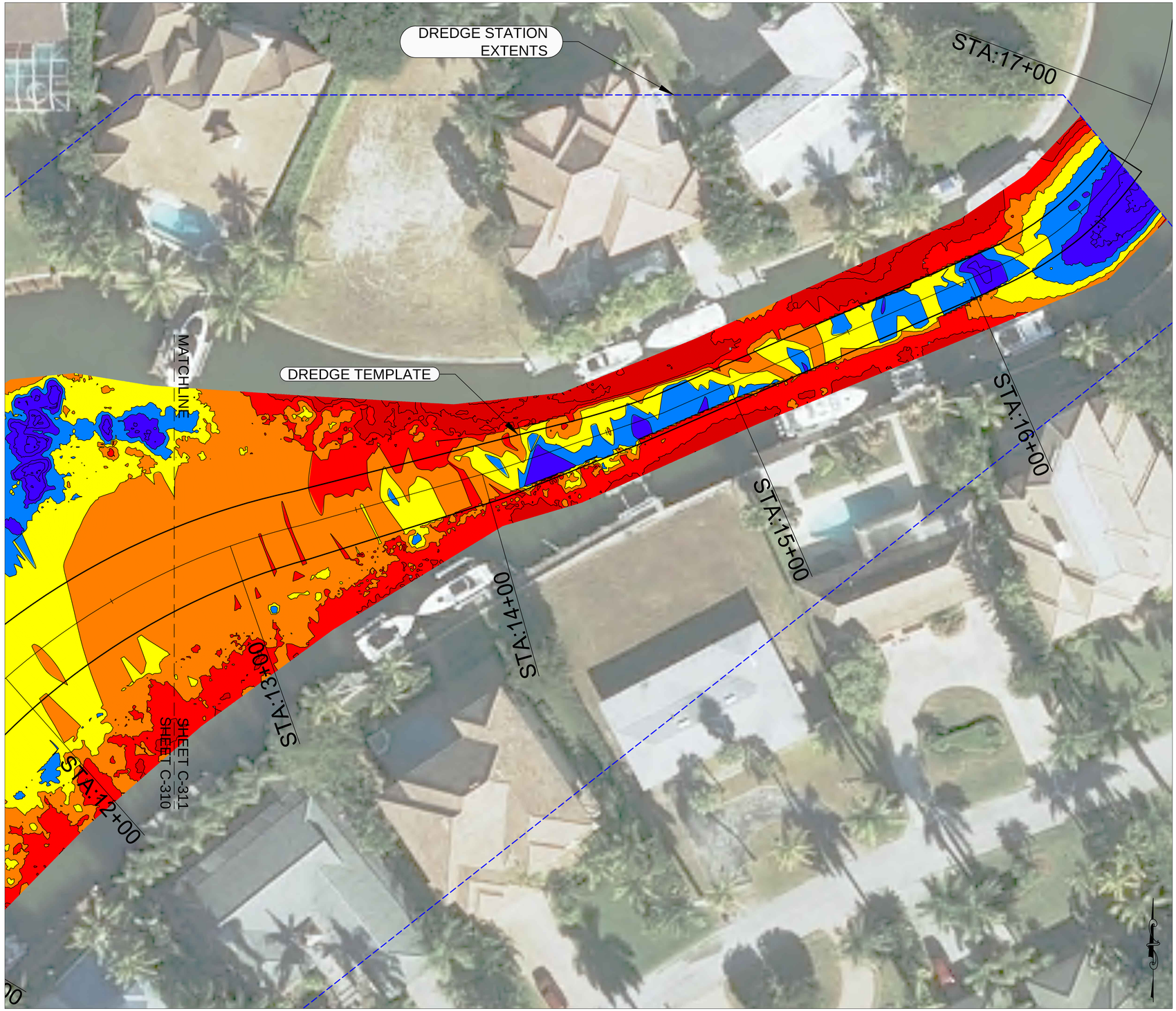
TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-310

CONSTRUCTION DRAWINGS 100%

User Name: 21885
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-309.dwg Feb 14, 2013 - 2:37pm



DREDGE EXTENTS A-A
STA. 9+00 TO STA. 16+75

Elevations Table

Minimum Elevation	Maximum Elevation	Color
-3.99	0.00	
-4.49	-4.00	
-4.99	-4.50	
-5.49	-5.00	
-5.99	-5.50	
-8.36	-6.00	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

CITY OF NAPLES FLORIDA ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
PROJECT DESIGN - DETAIL INSETS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
PHONE: (813) 282-7275
FAX: (813) 636-6580

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-311

CONSTRUCTION DRAWINGS 100%

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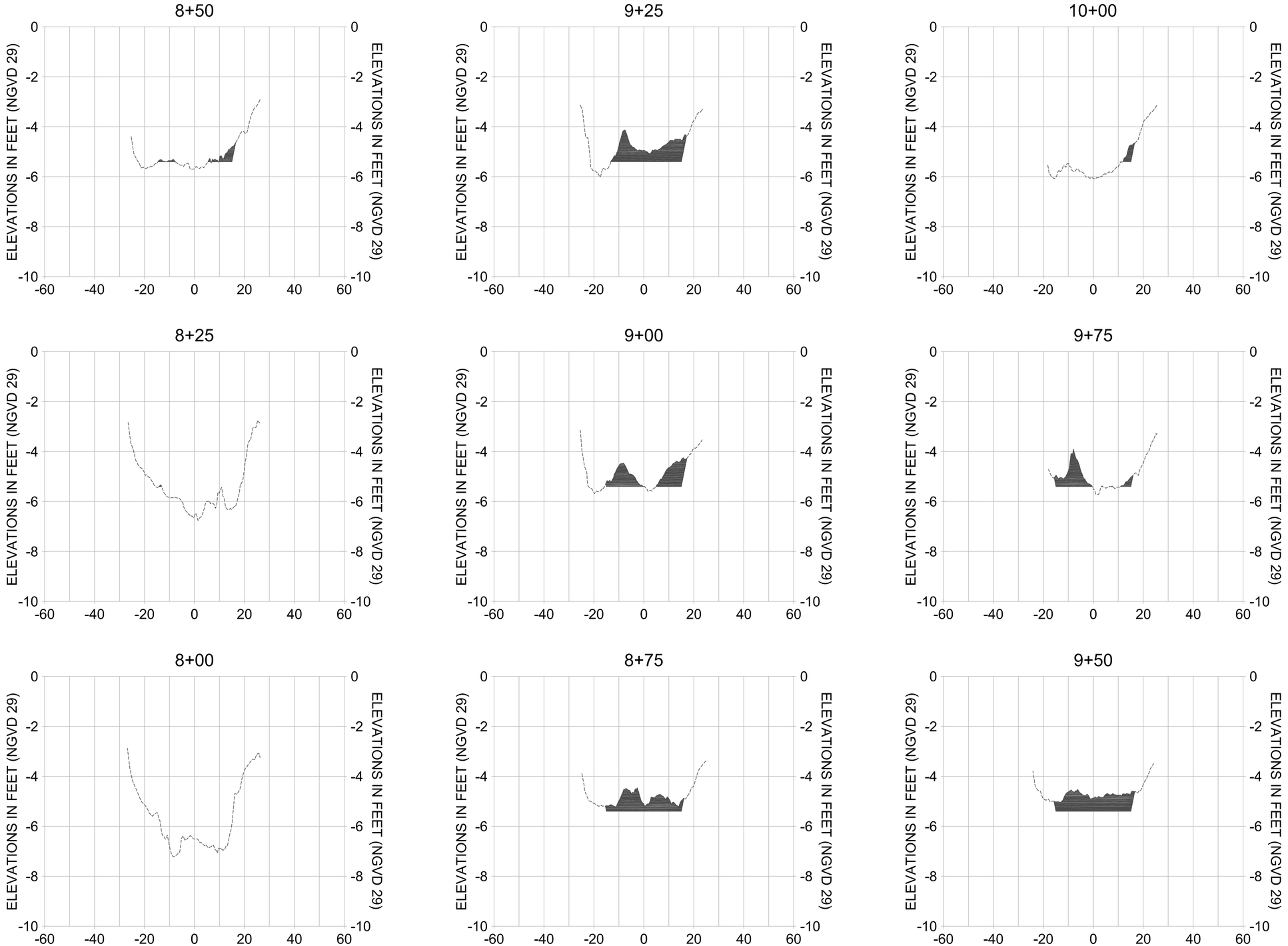
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-309.dwg Feb 14, 2013 - 2:41pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES FLORIDA ON THE GULF

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

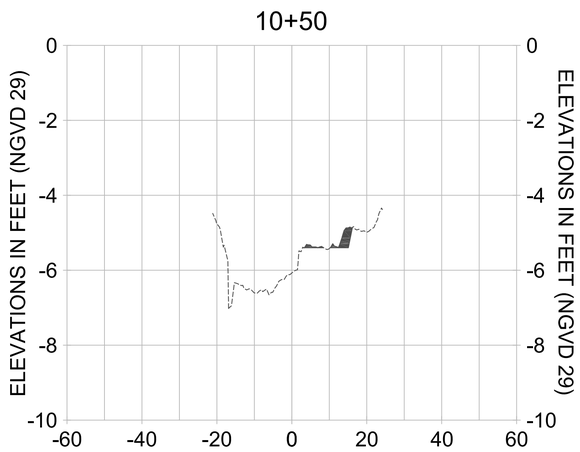
TITLE
CROSS SECTIONS - CANAL DD-DD

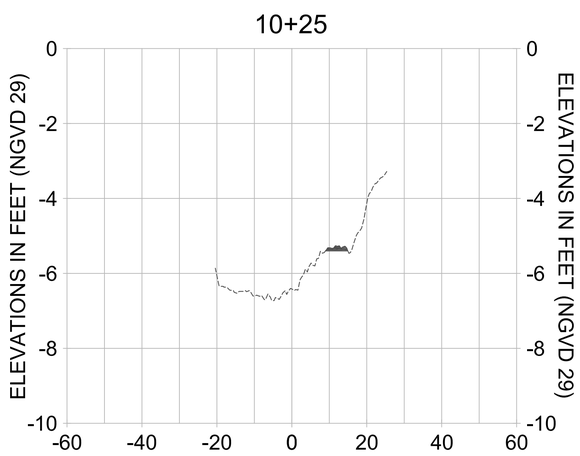
ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 275-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-600

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:13pm





HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION
1		
2		
3		
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9		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

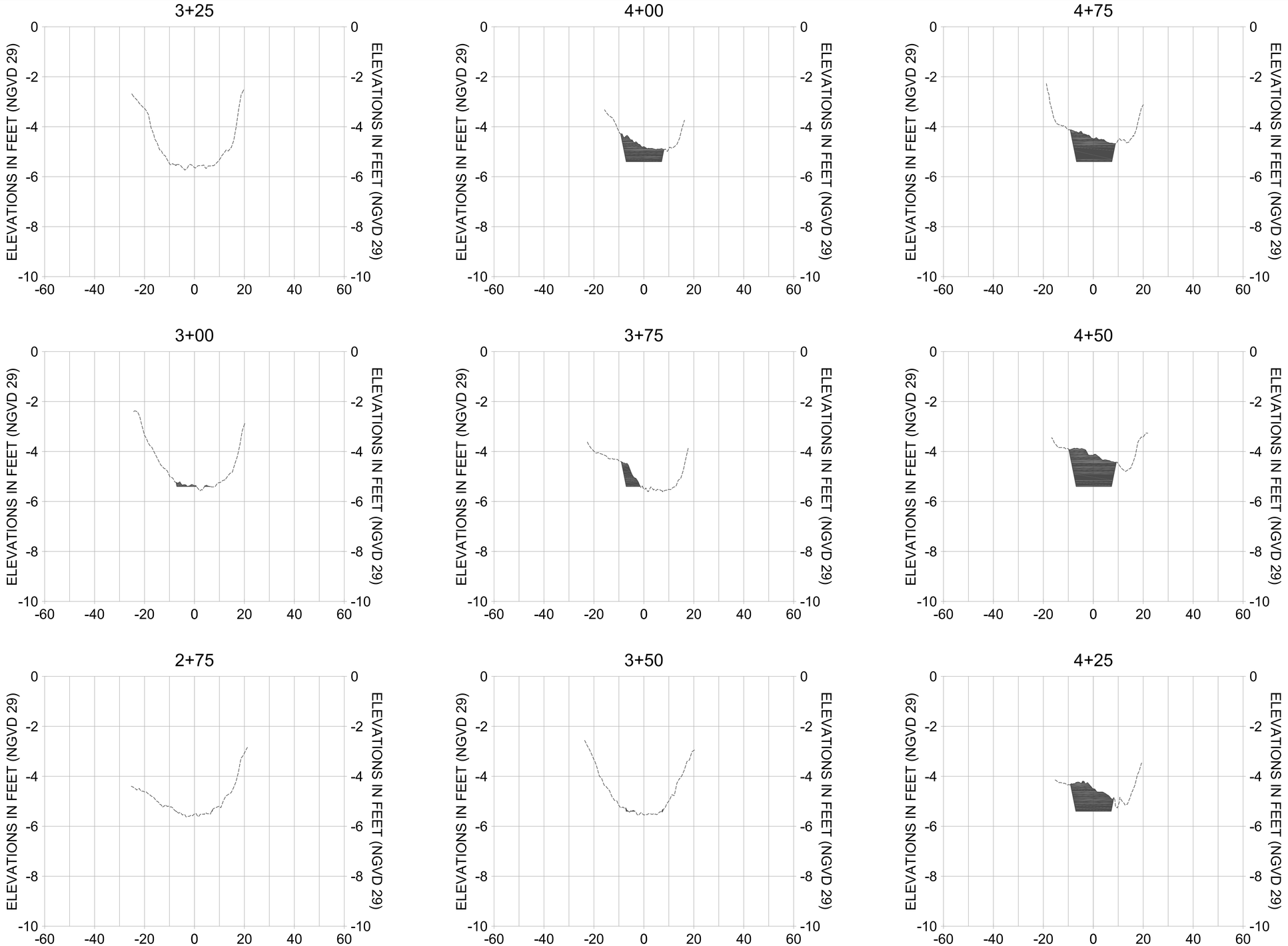
TITLE
CROSS SECTIONS - CANAL DD-DD

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 474-7275
FAX: (813) 636-0652

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-601

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:14pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

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ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

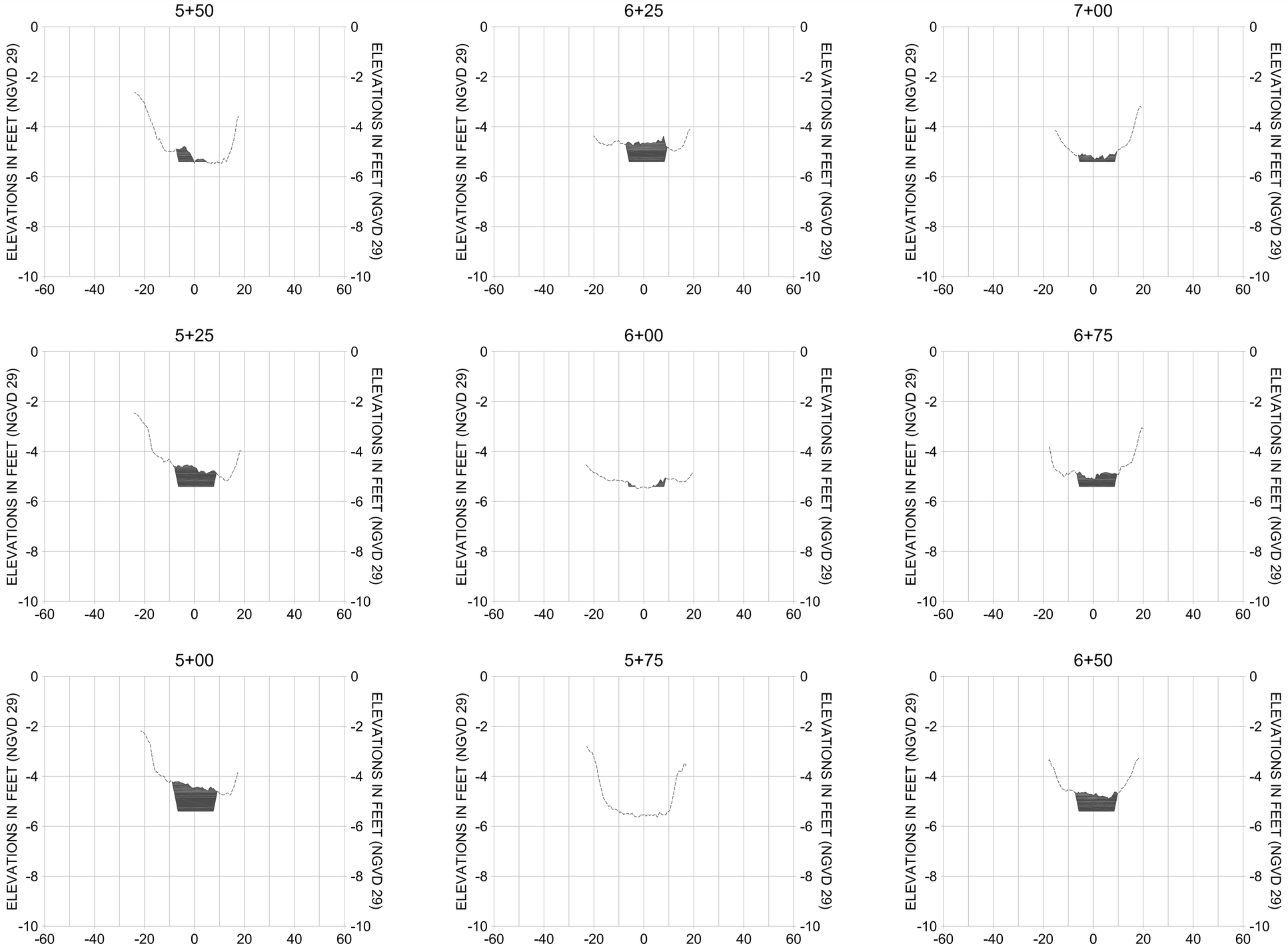
TITLE
CROSS SECTIONS - CANAL BB-BB

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (813) 474-7275
FAX. (813) 636-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-602

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:14pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

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ENGINEER OF RECORD:
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CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

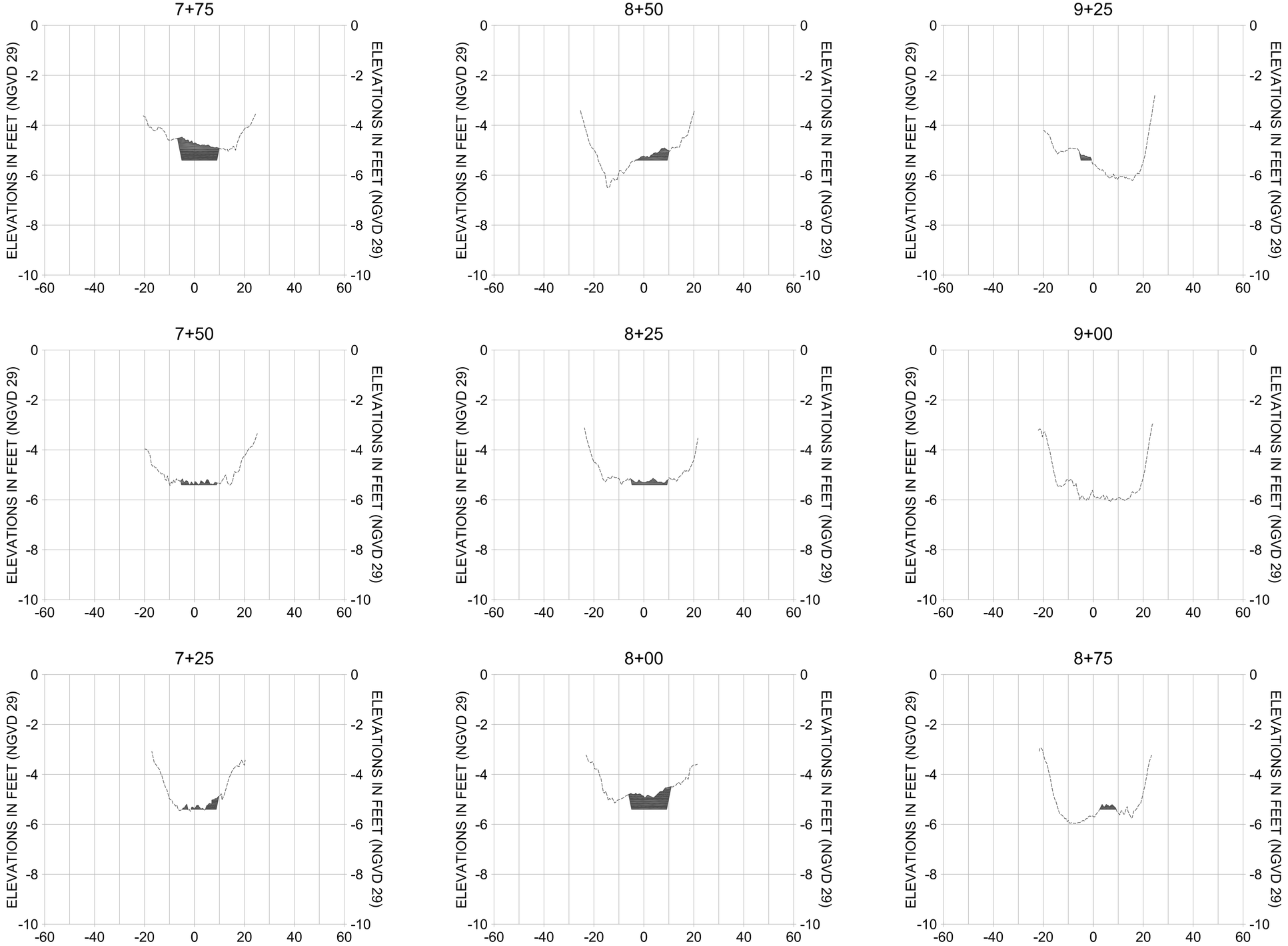
TITLE
CROSS SECTIONS - CANAL BB-BB

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL. (813) 474-7275
FAX. (813) 636-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-603

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:15pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES FLORIDA ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

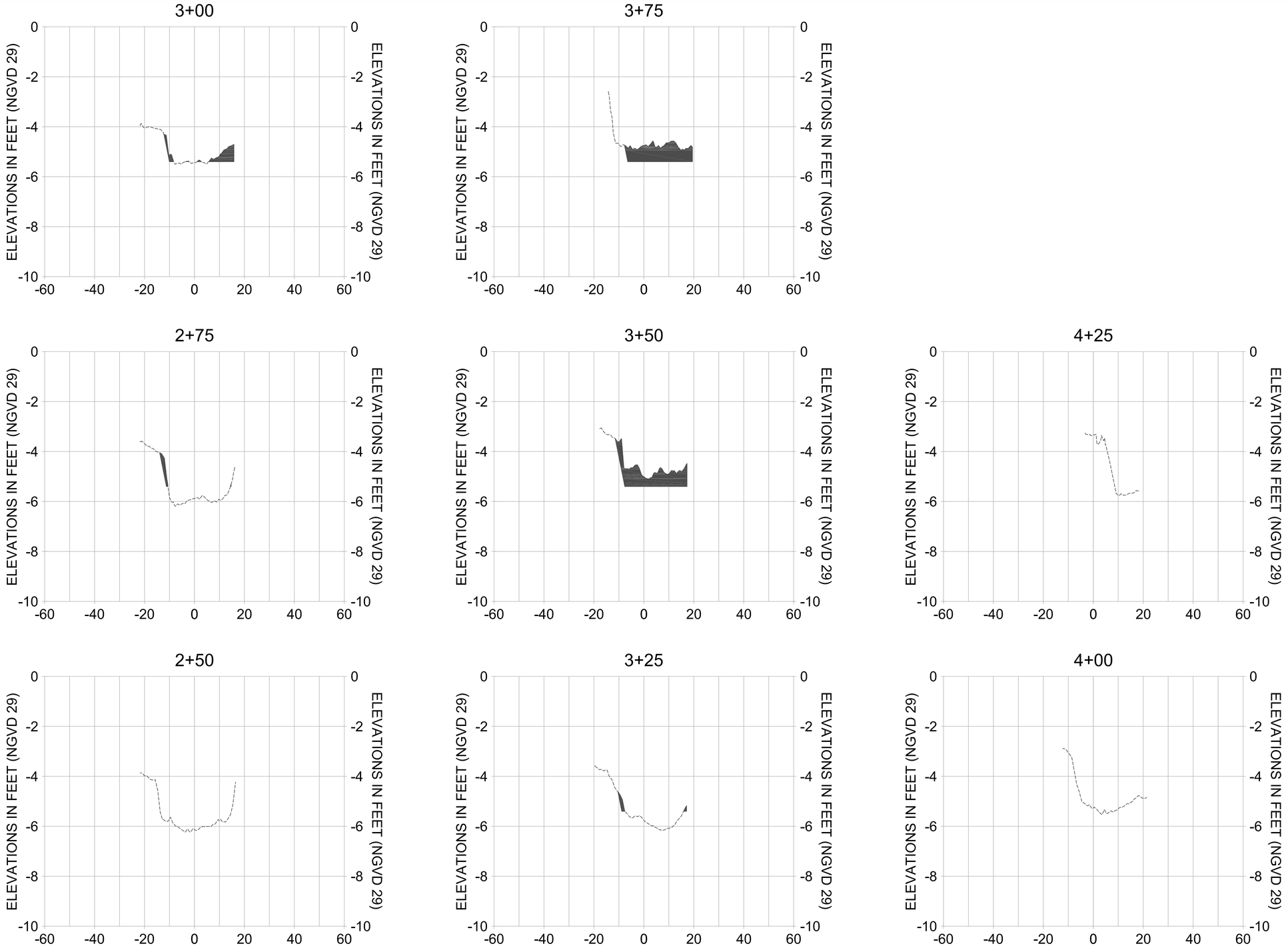
TITLE
CROSS SECTIONS - CANAL BB-BB

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 474-7275
FAX: (813) 636-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-604

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:15pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL AA-AA

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 274-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-605

CONSTRUCTION DRAWINGS 100%

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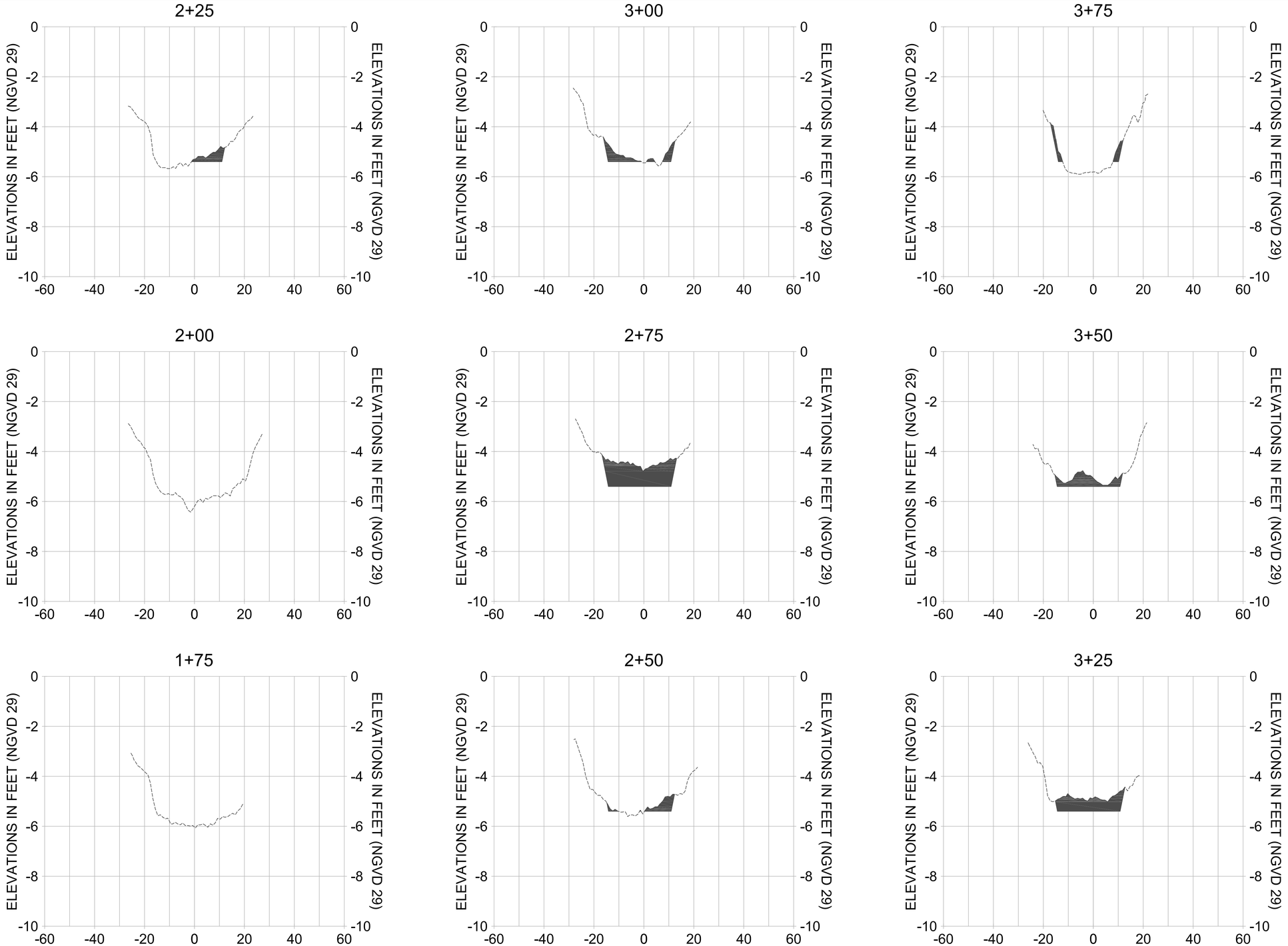
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:18pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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PROJECT
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TITLE
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4030 WEST BOY SCOUT BLVD
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TAMPA, FL 33607
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DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-606

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:18pm

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION
1		
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BRYAN D. FLYNN - FLORIDA P.E. #70856

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SHEET NO.	C-607

CONSTRUCTION DRAWINGS 100%

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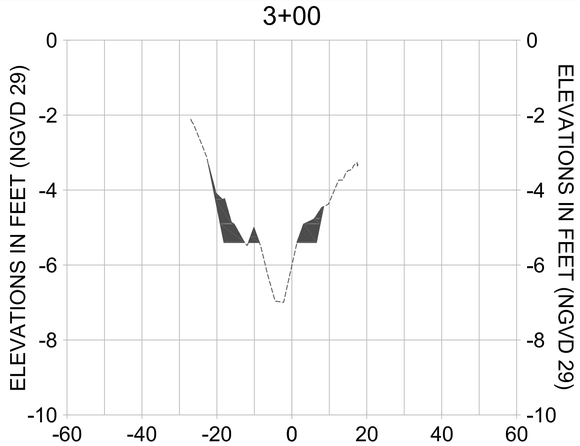
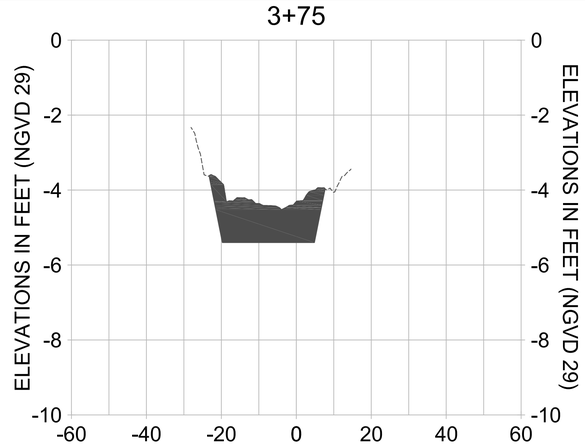
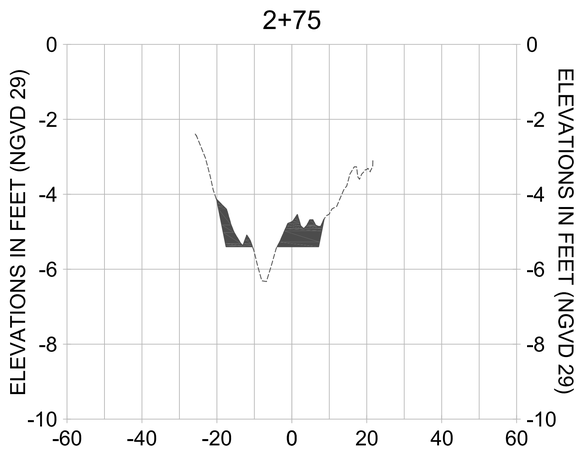
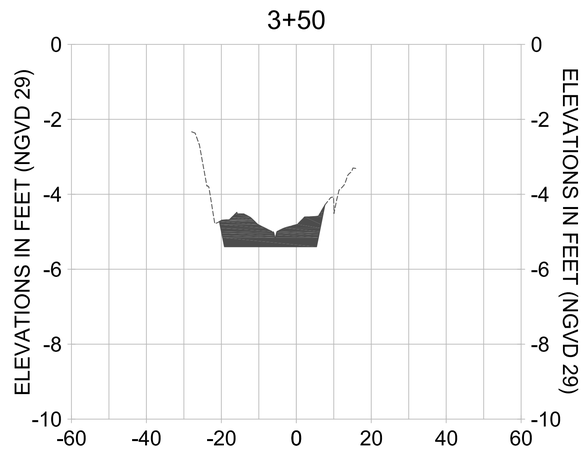
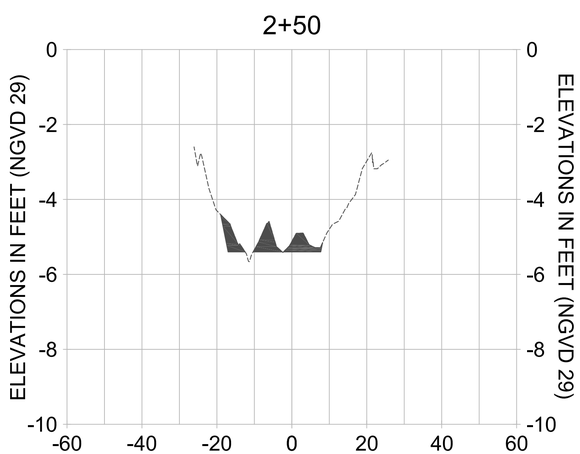
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:17pm

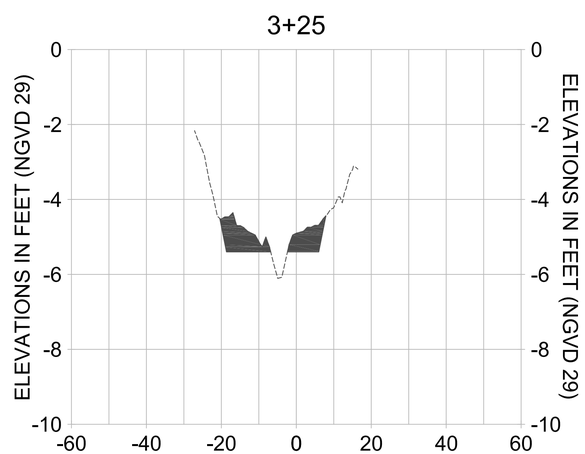


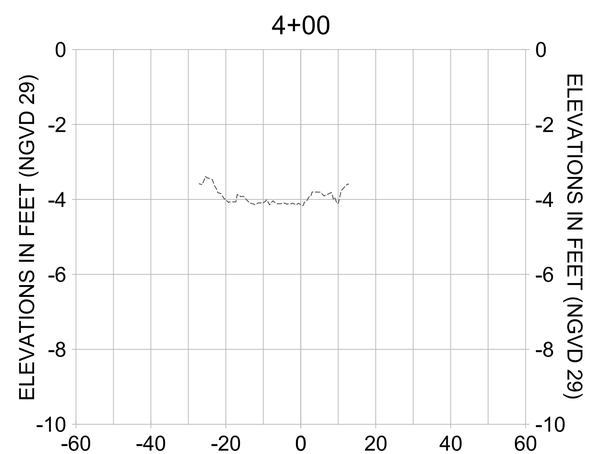












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL Y-Y

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SUITE 700
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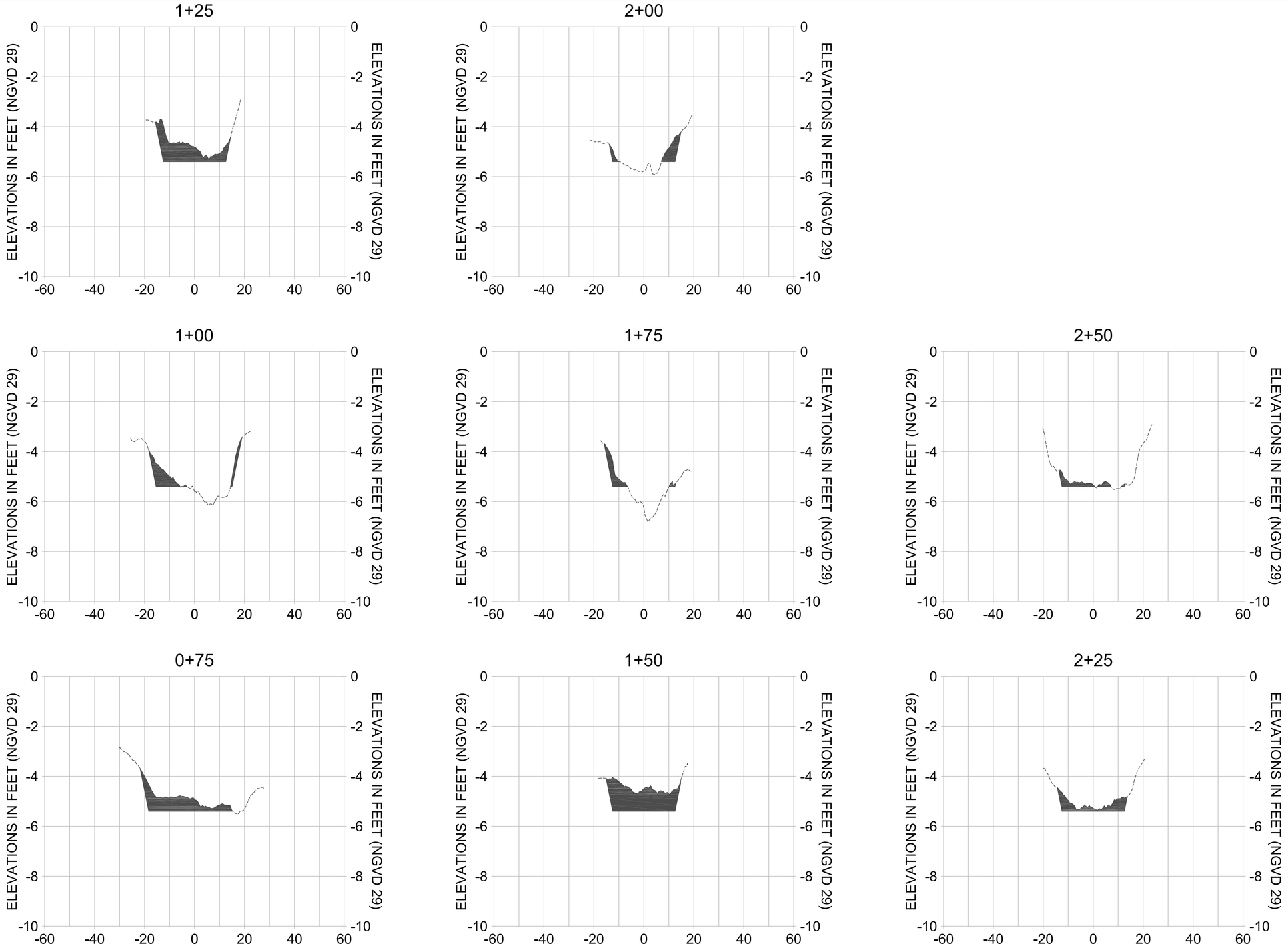
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-608

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:17pm



HORIZONTAL SCALE: 1" = 20'
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CITY OF NAPLES, FLORIDA
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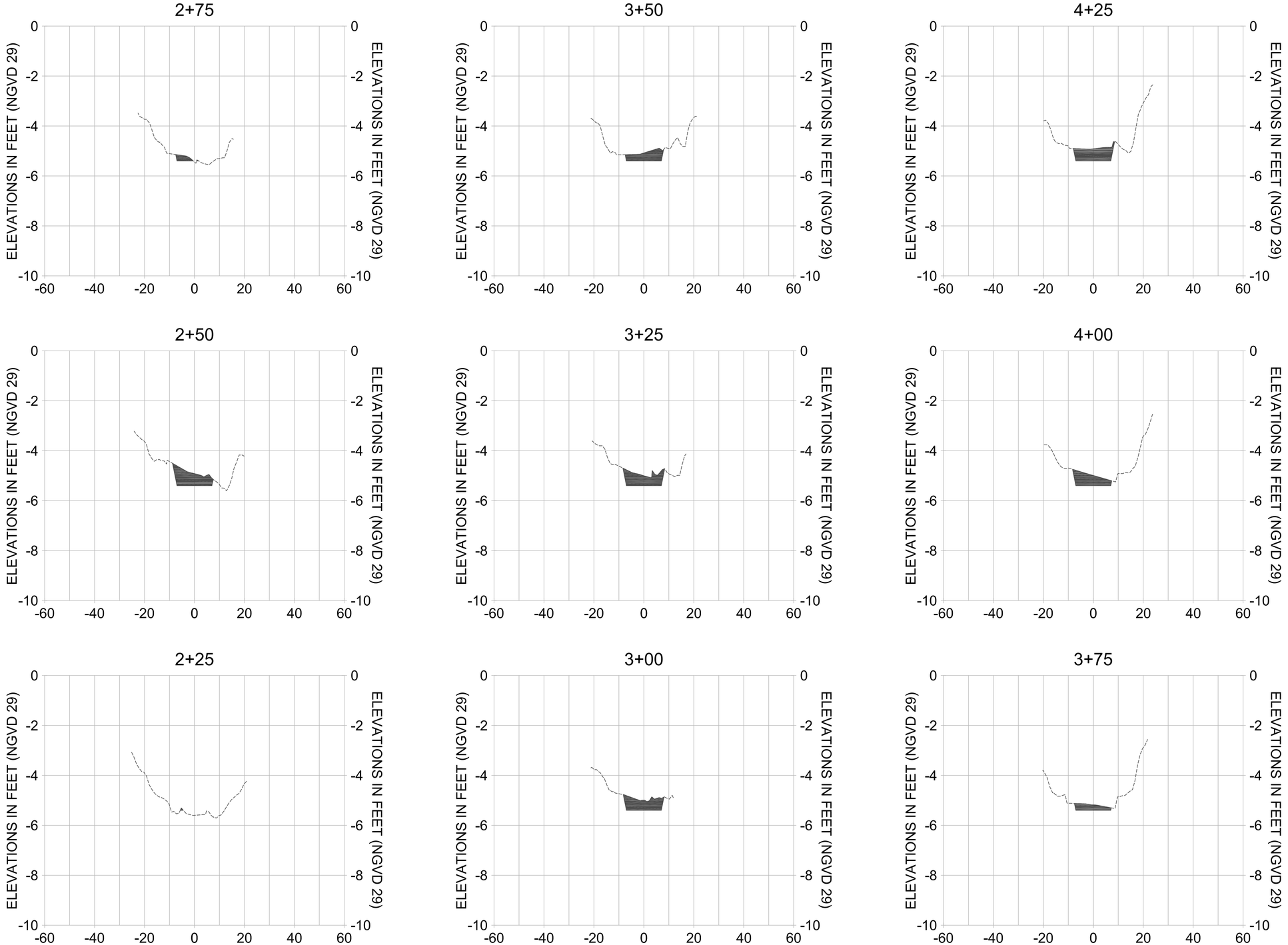
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-609

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:18pm



HORIZONTAL SCALE: 1" = 20'
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LEGEND:
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CONSTRUCTION DRAWINGS 100%

CITY OF NAPLES, FLORIDA — ON THE GULF

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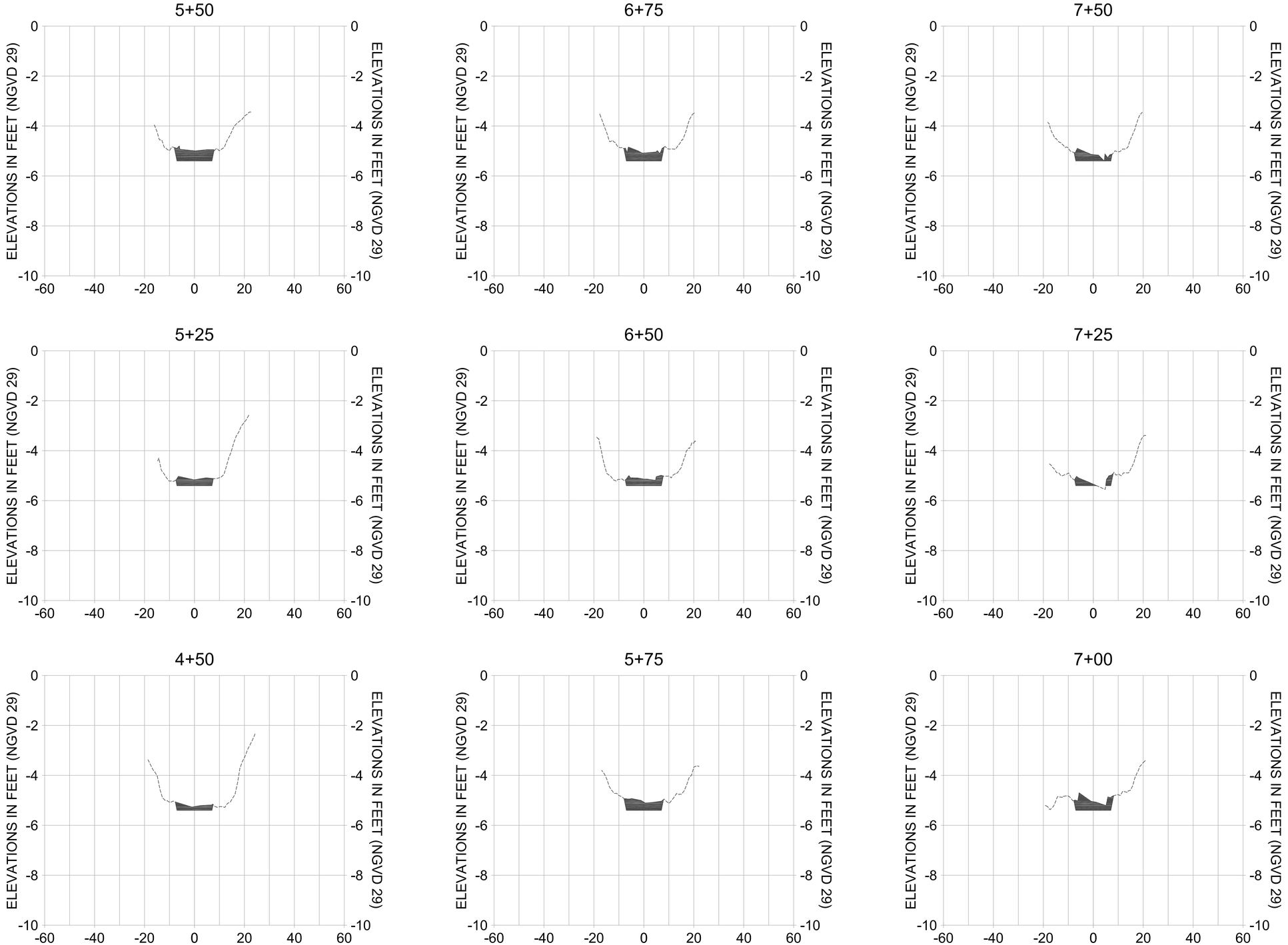
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-610

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:18pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
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DESIGN:	BDF
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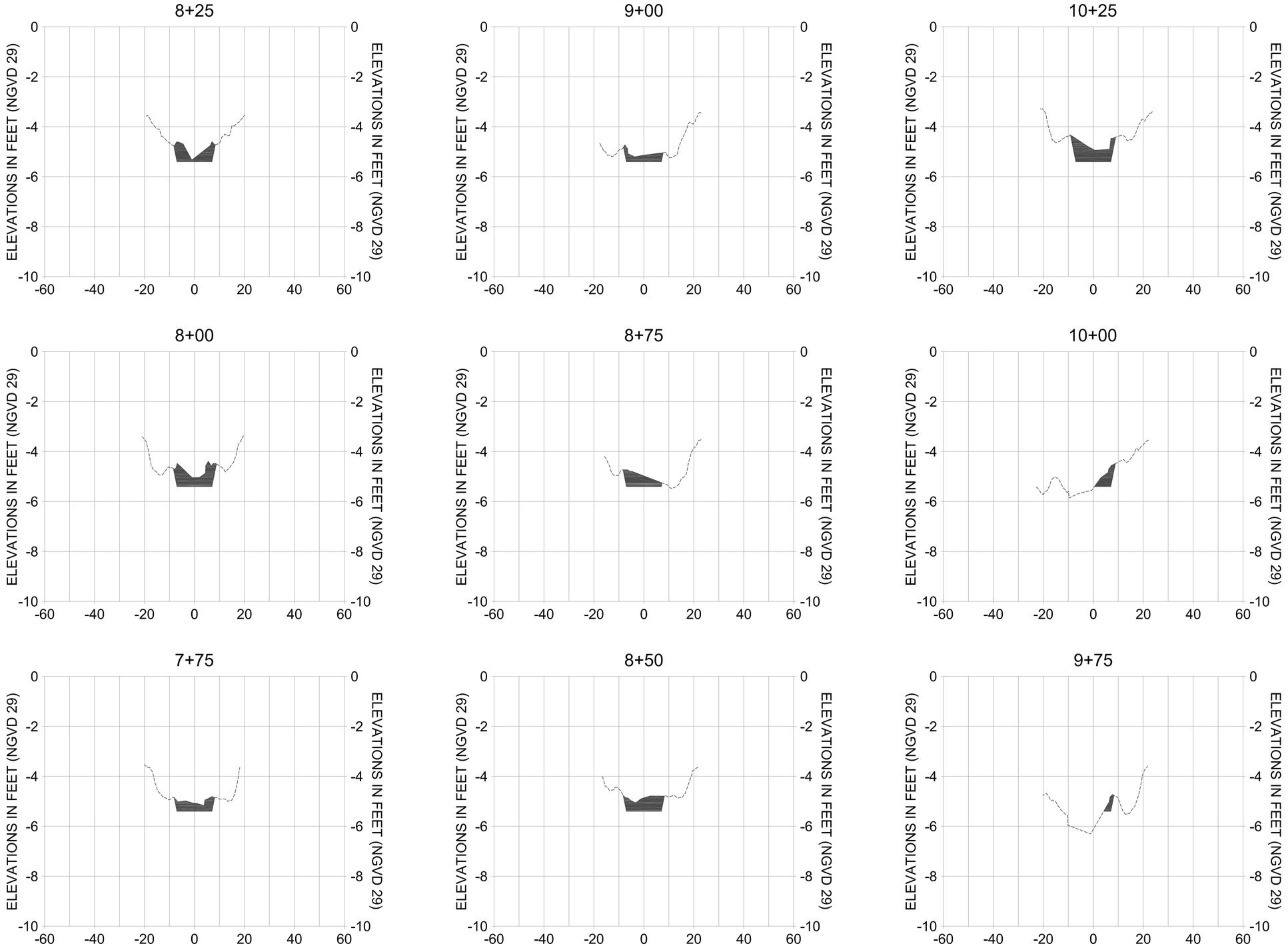
APPROVED:	BDF
SHEET NO.	C-611

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:19pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
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CITY OF NAPLES, FLORIDA — ON THE GULF

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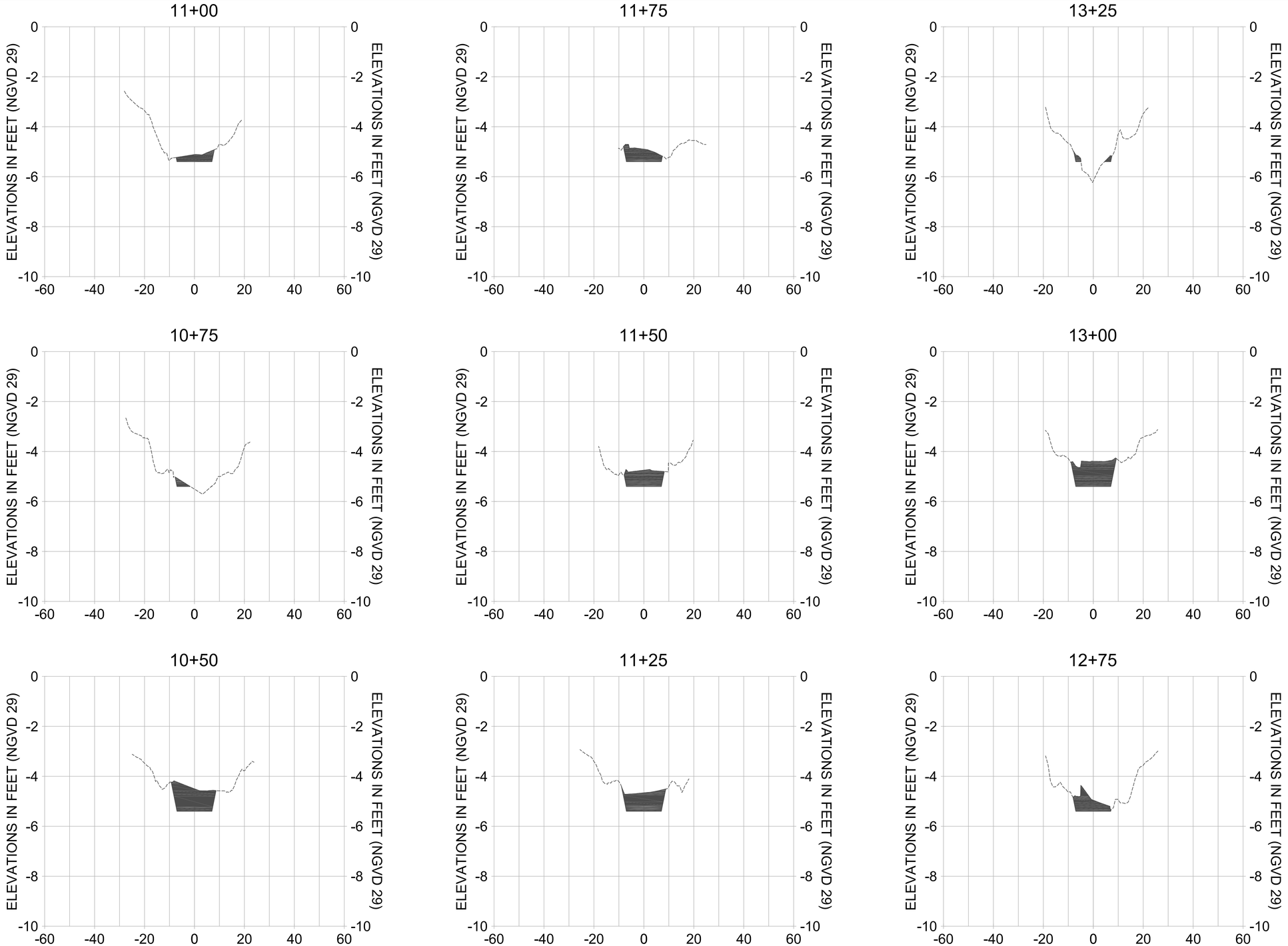
APPROVED:	BDF
SHEET NO.	C-612

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:19pm



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CITY OF NAPLES FLORIDA ON THE GULF

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User Name: 21685
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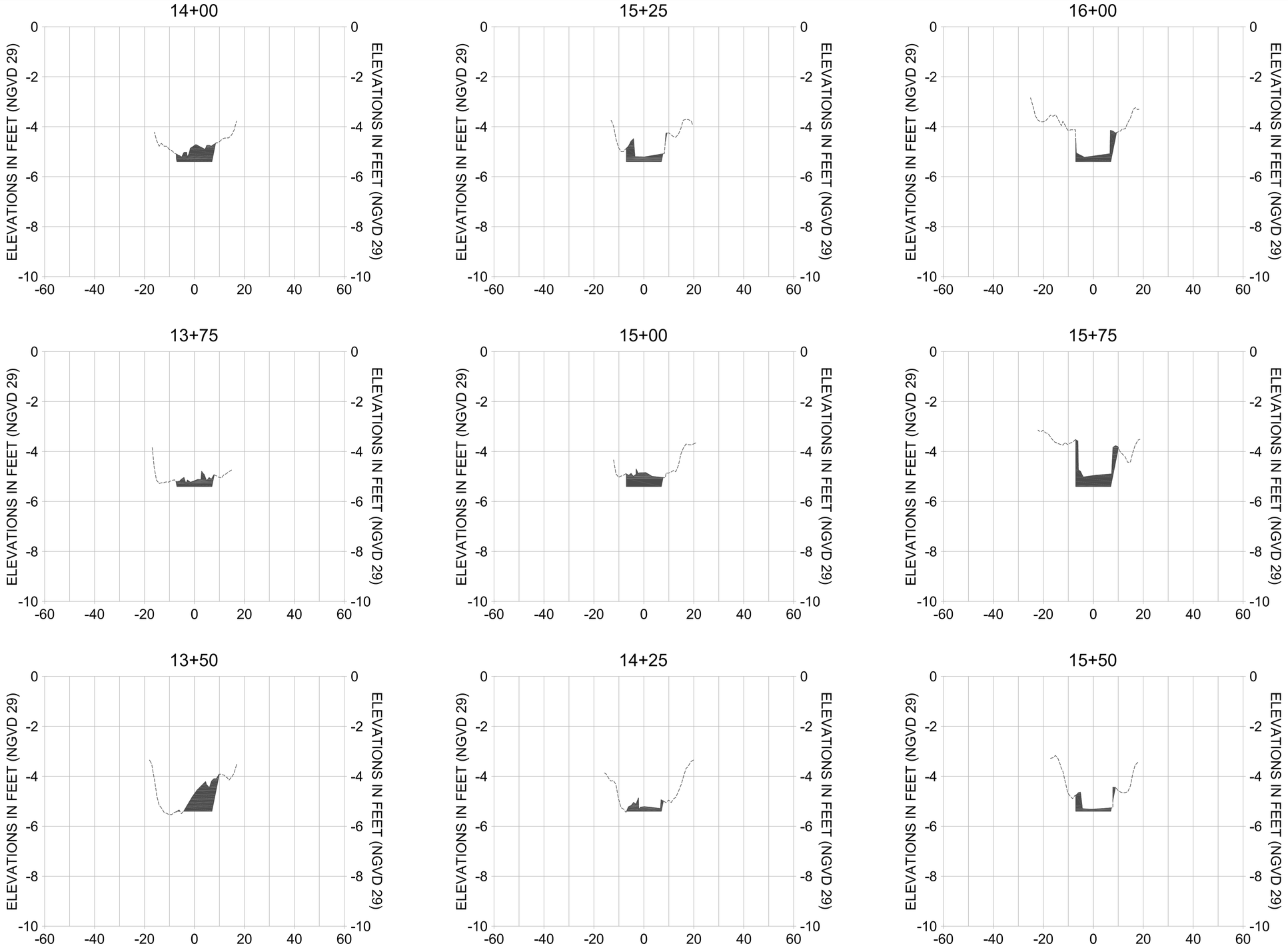

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735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL W-W

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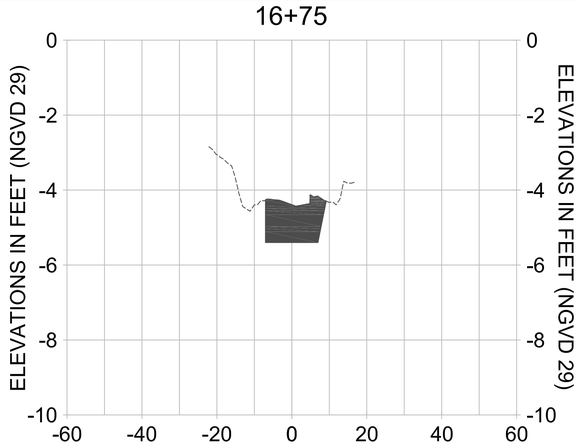
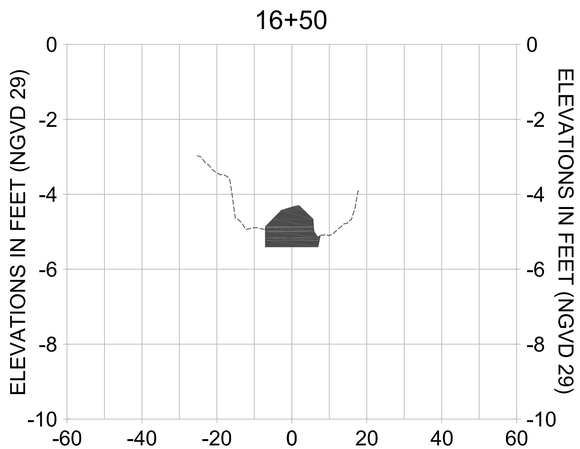
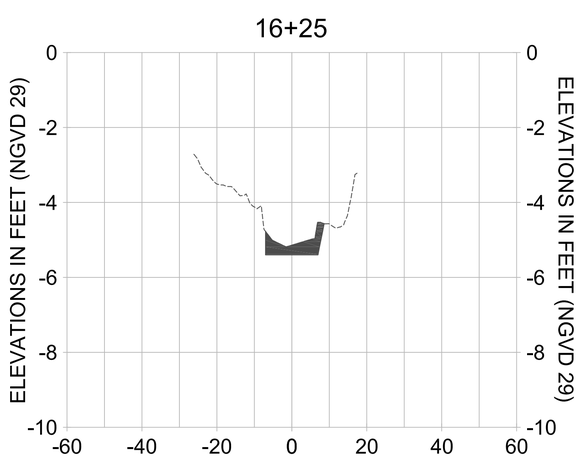
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-614

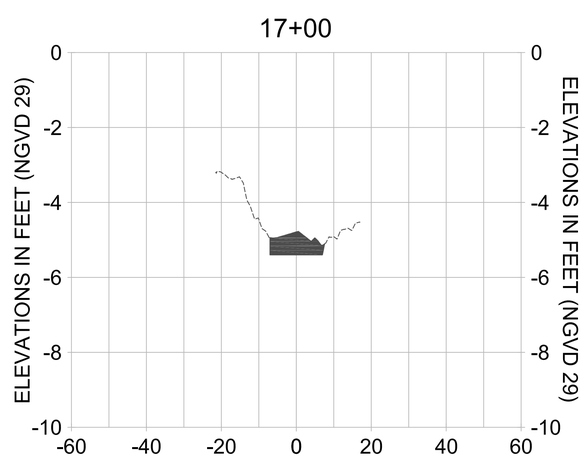
CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22-24\C-600.dwg Feb 14, 2013 - 3:20pm









HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

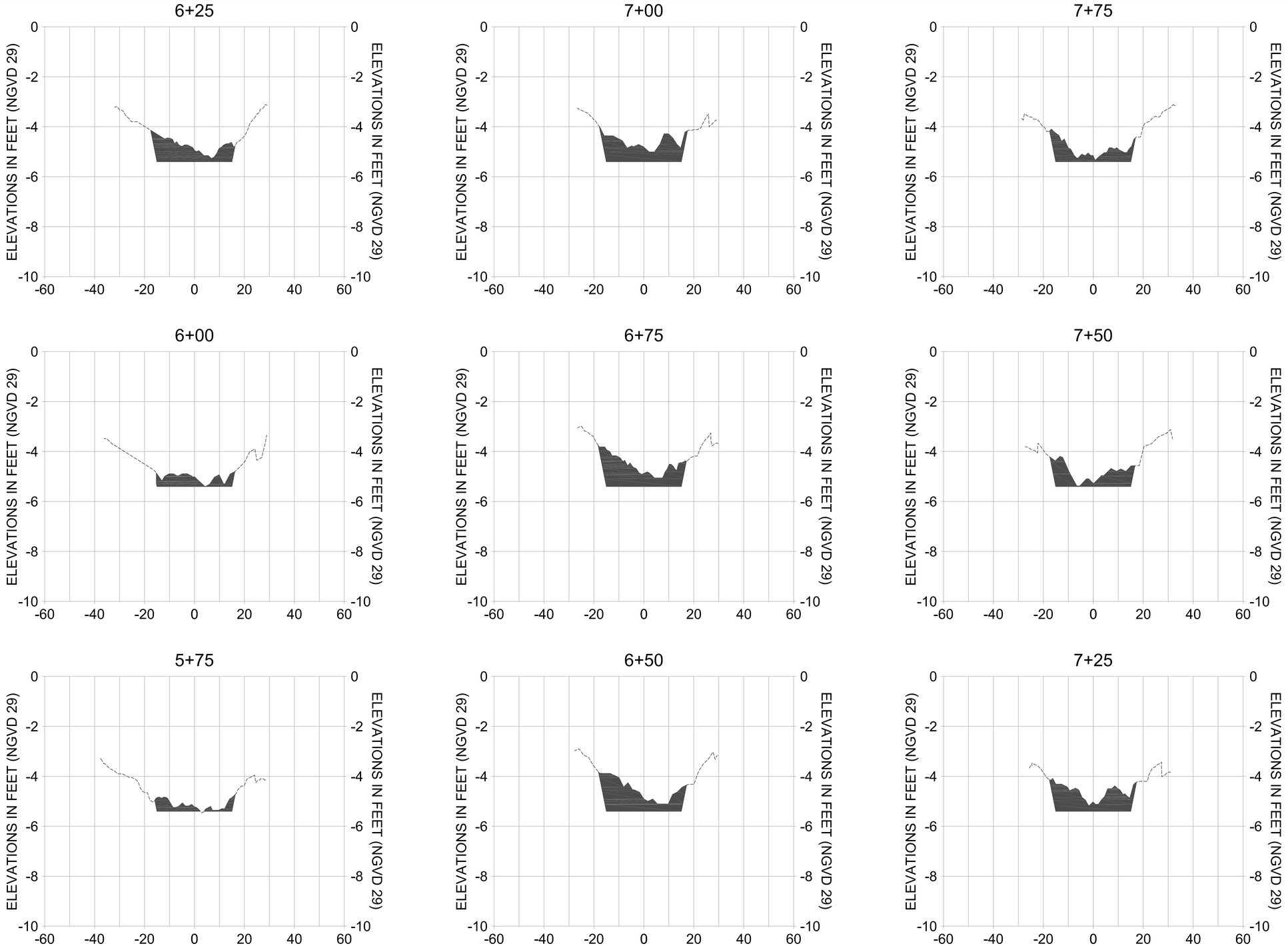
TITLE
CROSS SECTIONS - CANAL W-W

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 275-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-615

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:21pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

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ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL V-V

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4030 WEST BOY SCOUT BLVD
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TAMPA, FL 33607
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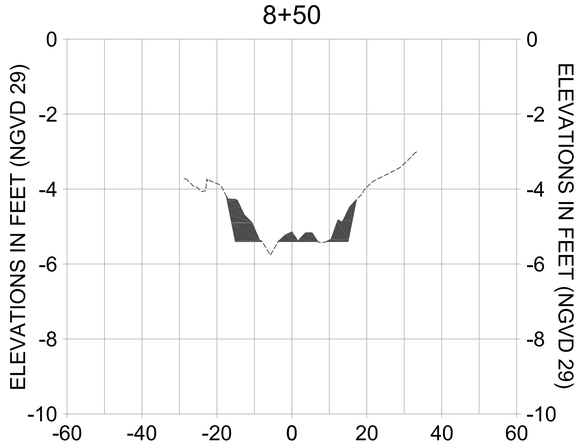
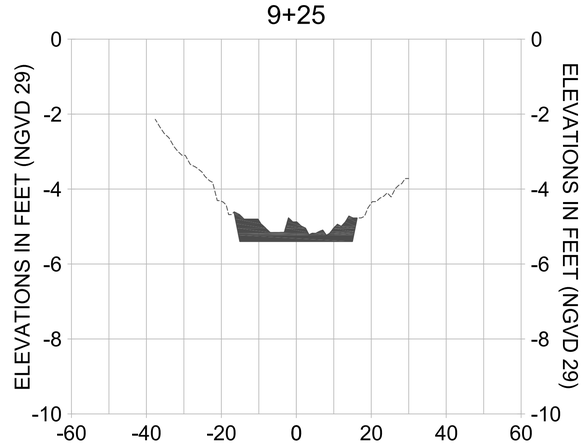
FAX. (813) 636-6562

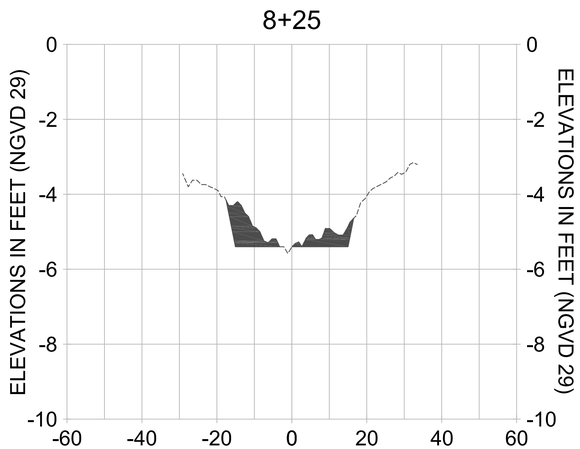
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-616

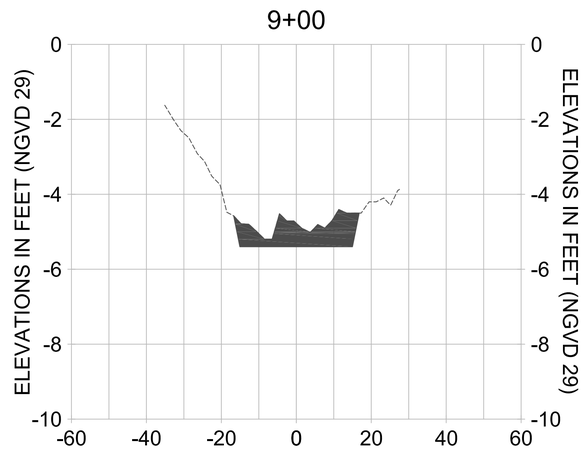
CONSTRUCTION DRAWINGS 100%

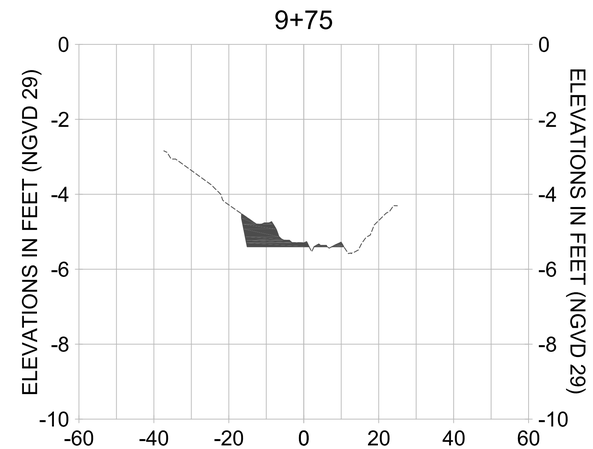
User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-606.dwg Feb 14, 2013 - 3:21pm

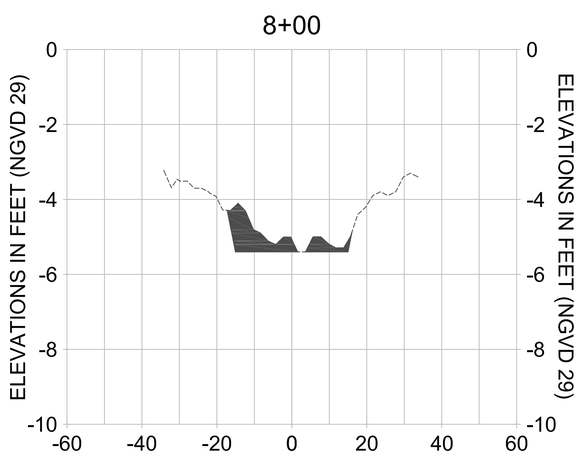


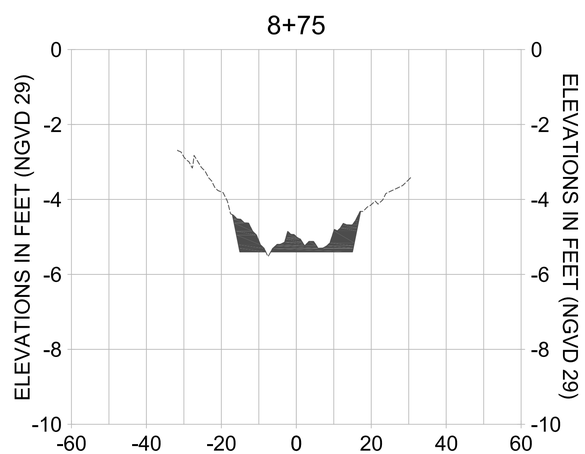


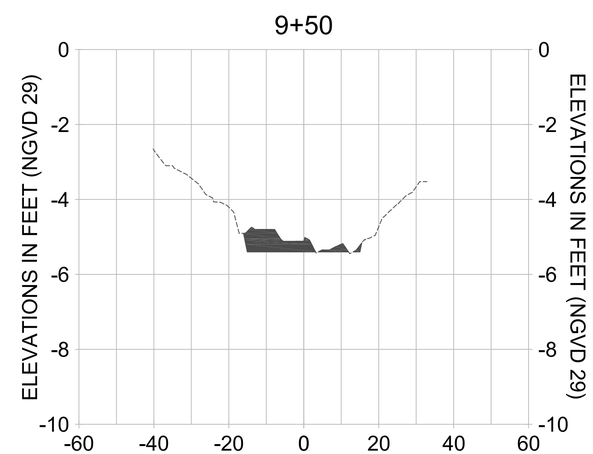












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL V-V

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
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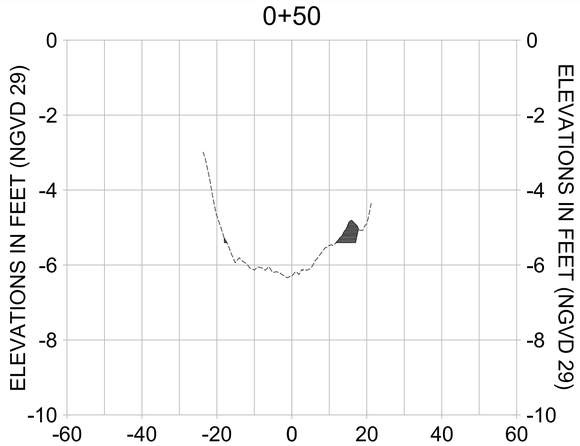
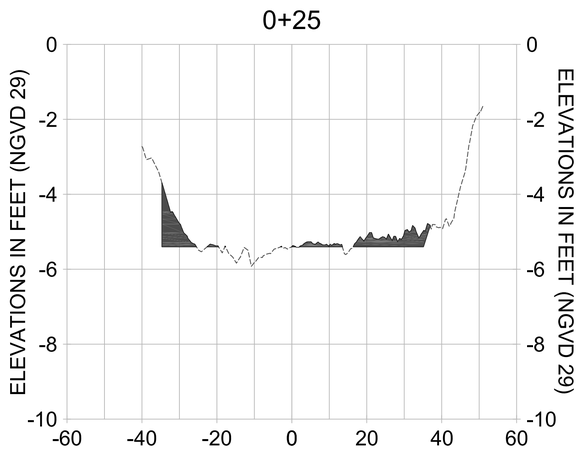
FAX. (813) 636-6562

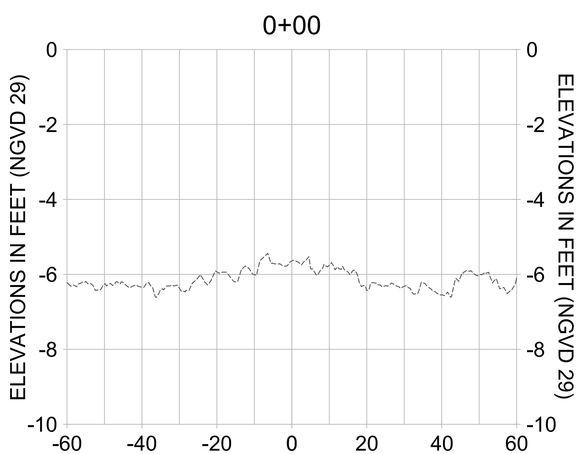
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-617

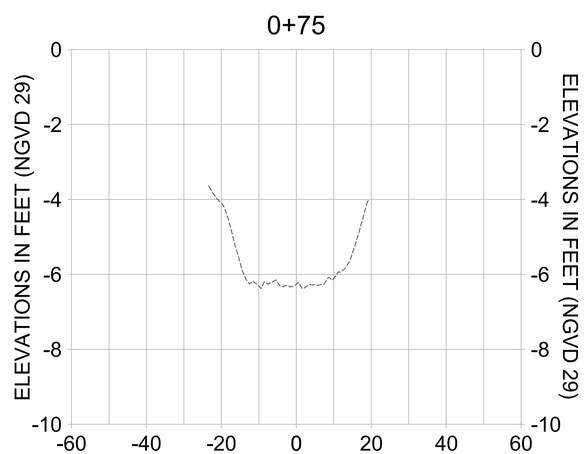
CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22-24\C-600.dwg Feb 14, 2013 - 3:22pm









HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION

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SUITE 700
TAMPA, FL 33607
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FAX: (813) 636-6582

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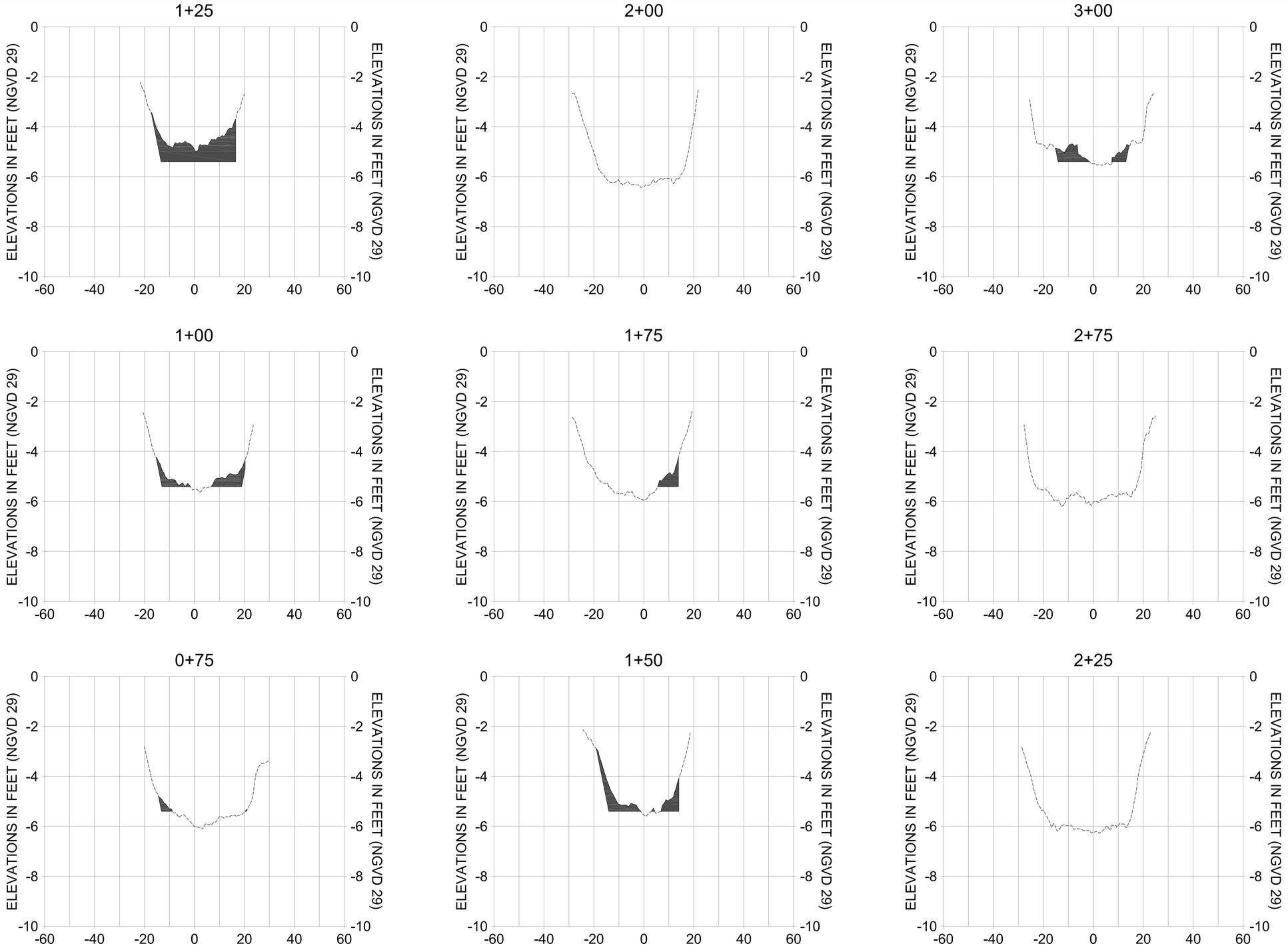
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-618

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:22pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES FLORIDA ON THE GULF

REV.	DATE	DESCRIPTION

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BRYAN D. FLYNN - FLORIDA P.E. #70856

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

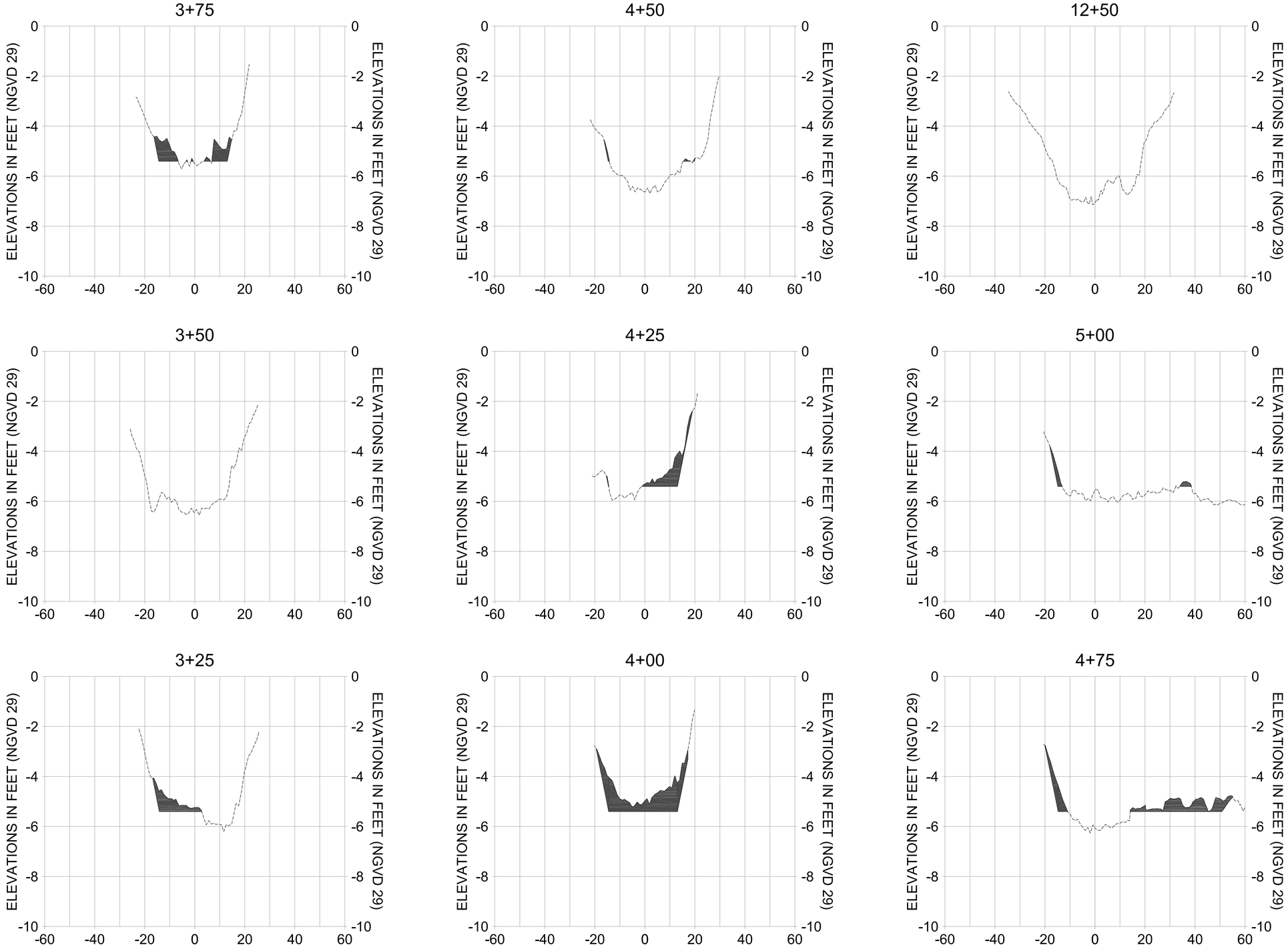
TITLE
CROSS SECTIONS - CANAL R-R

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 274-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-619

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:23pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES FLORIDA ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CITY OF NAPLES
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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL R-R

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4030 WEST BOY SCOUT BLVD
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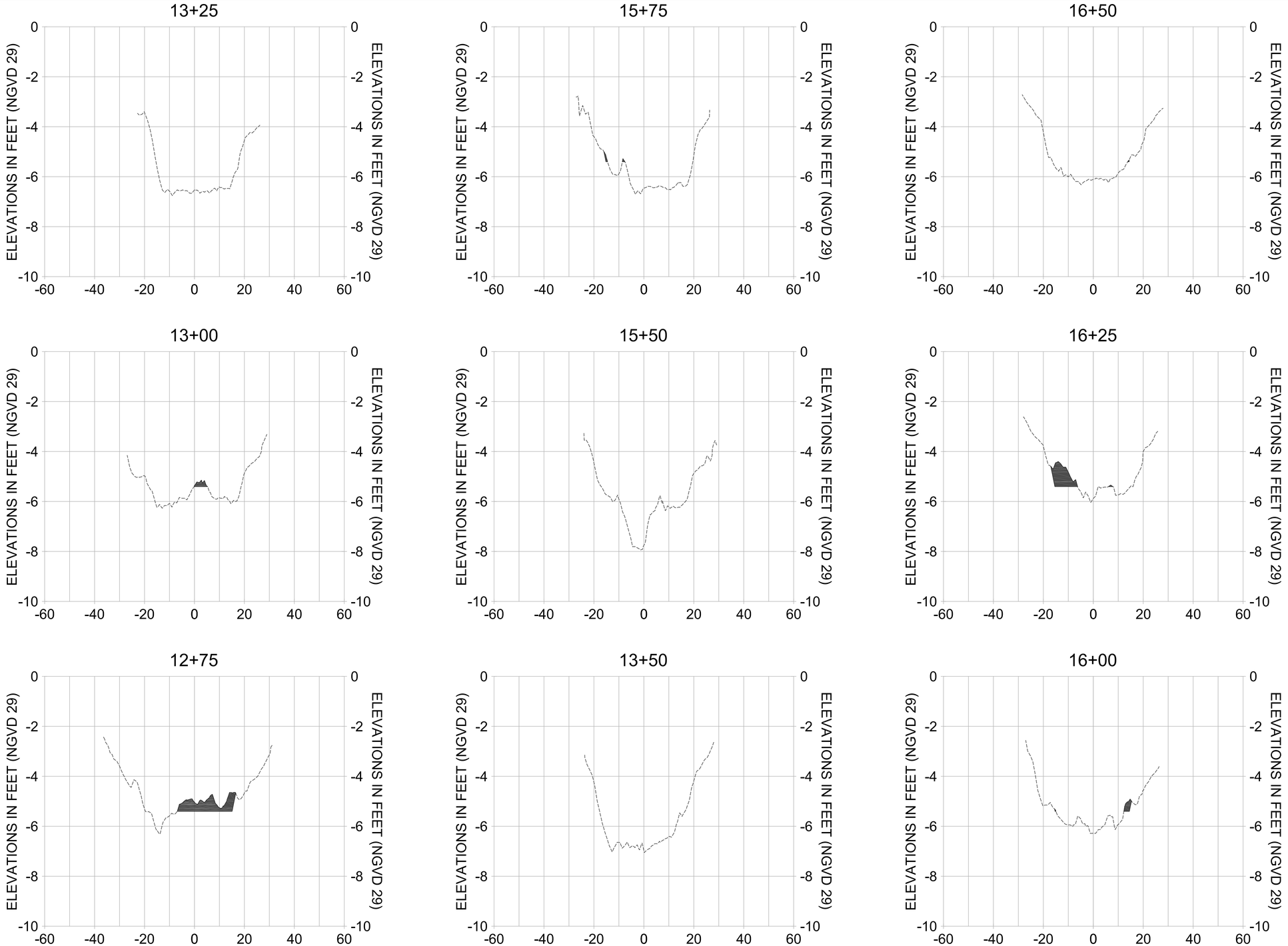
TEL: (813) 273-7275
FAX: (813) 636-0582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-620

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:23pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL R-R

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SUITE 700
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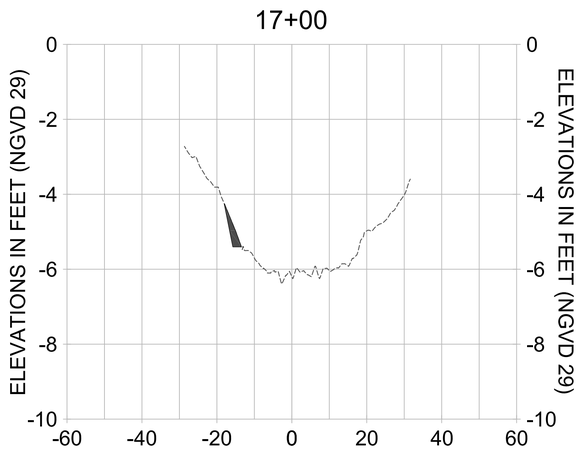
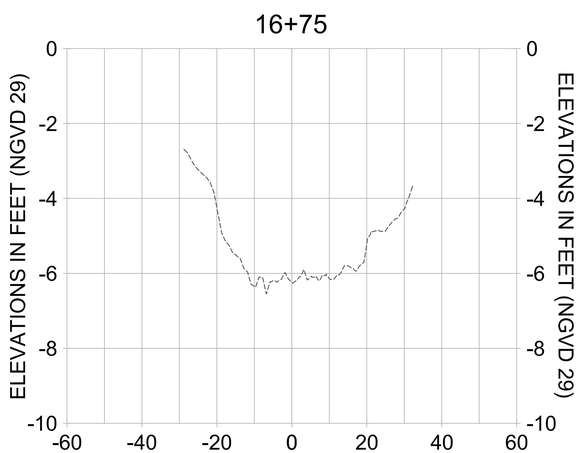
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-621

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:24pm





HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

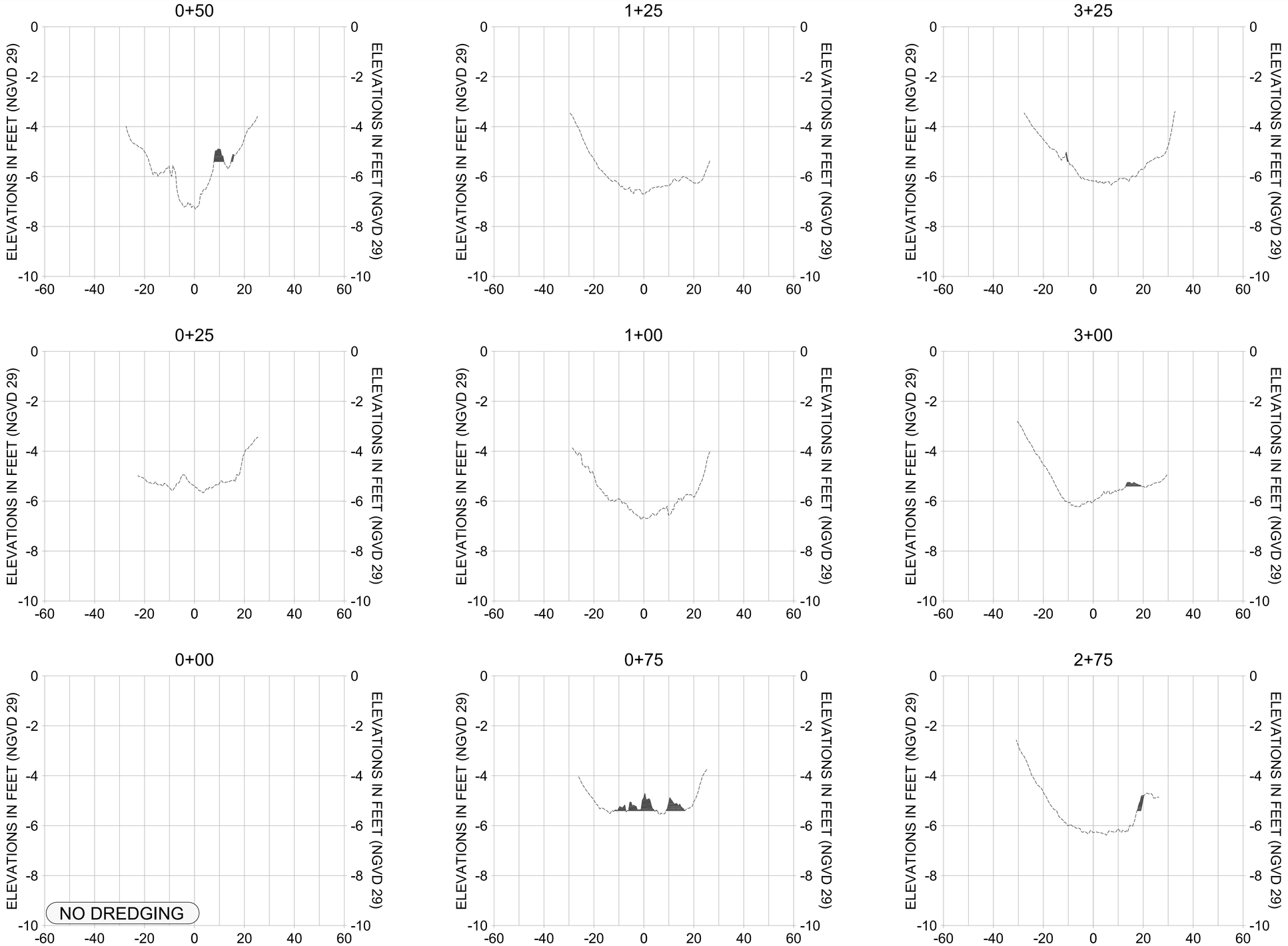
TITLE
CROSS SECTIONS - CANAL R-R

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 475-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-622

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:24pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CITY OF NAPLES
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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL Q-Q

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TAMPA, FL 33607
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FAX: (813) 636-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-623

CONSTRUCTION DRAWINGS 100%

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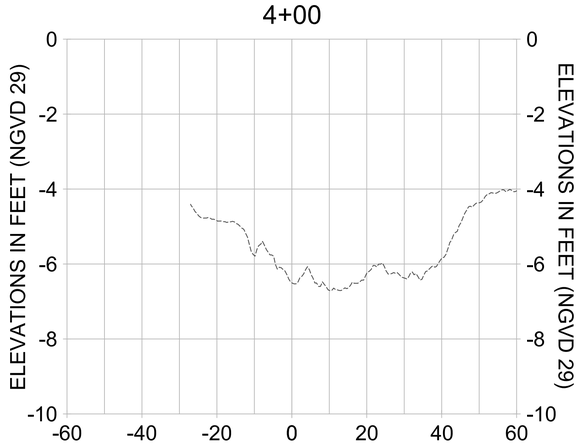
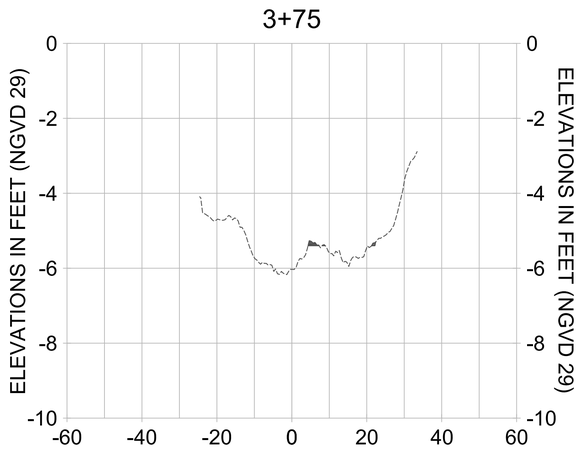
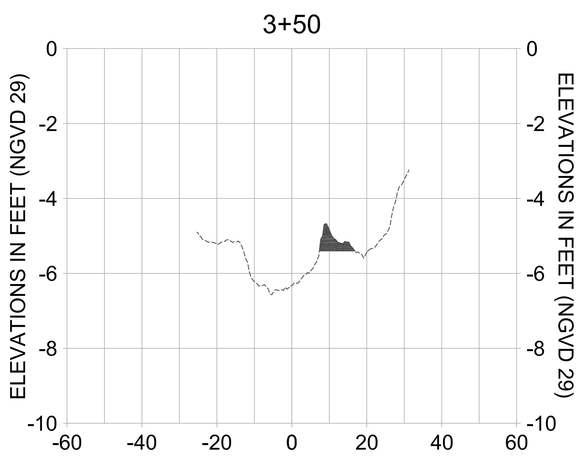
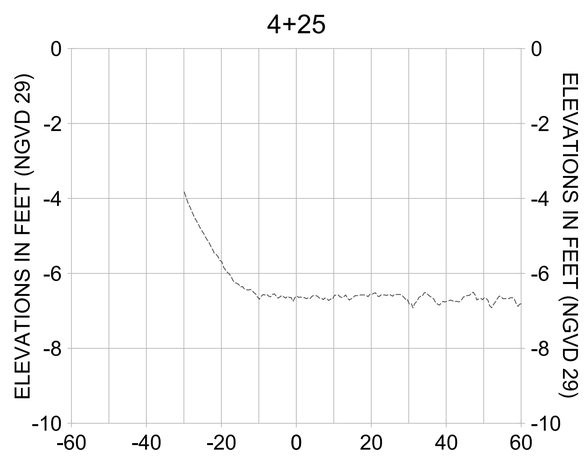
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:25pm









HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL Q-Q

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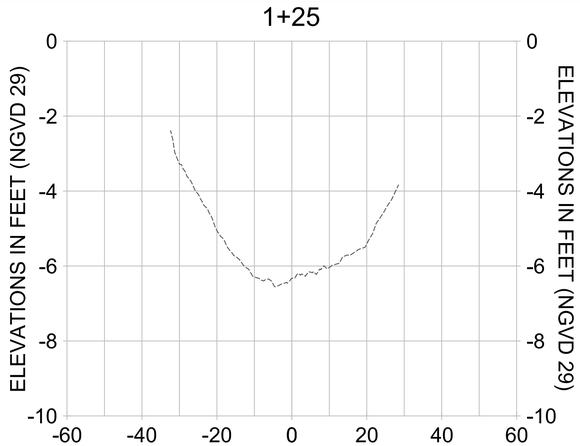
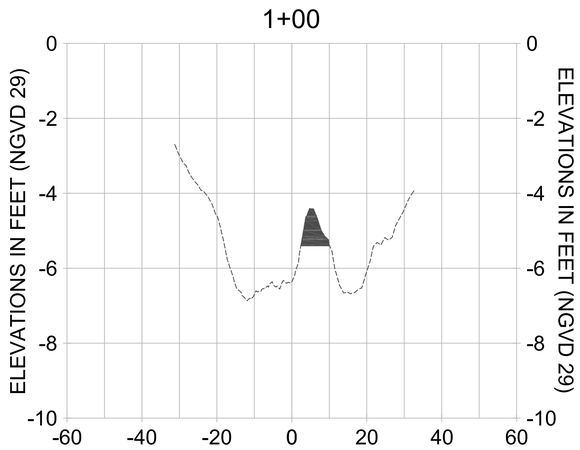
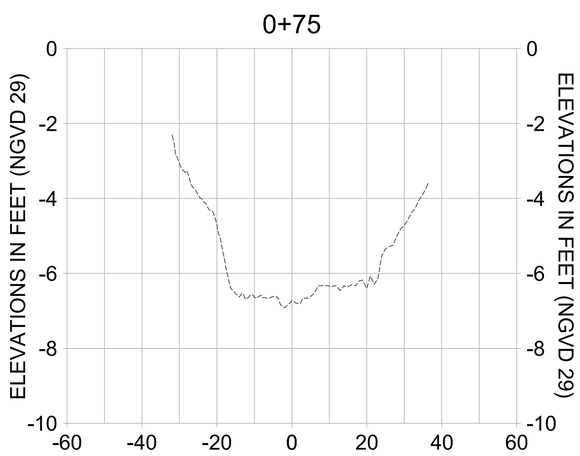
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-624

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:25pm







HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL P-P

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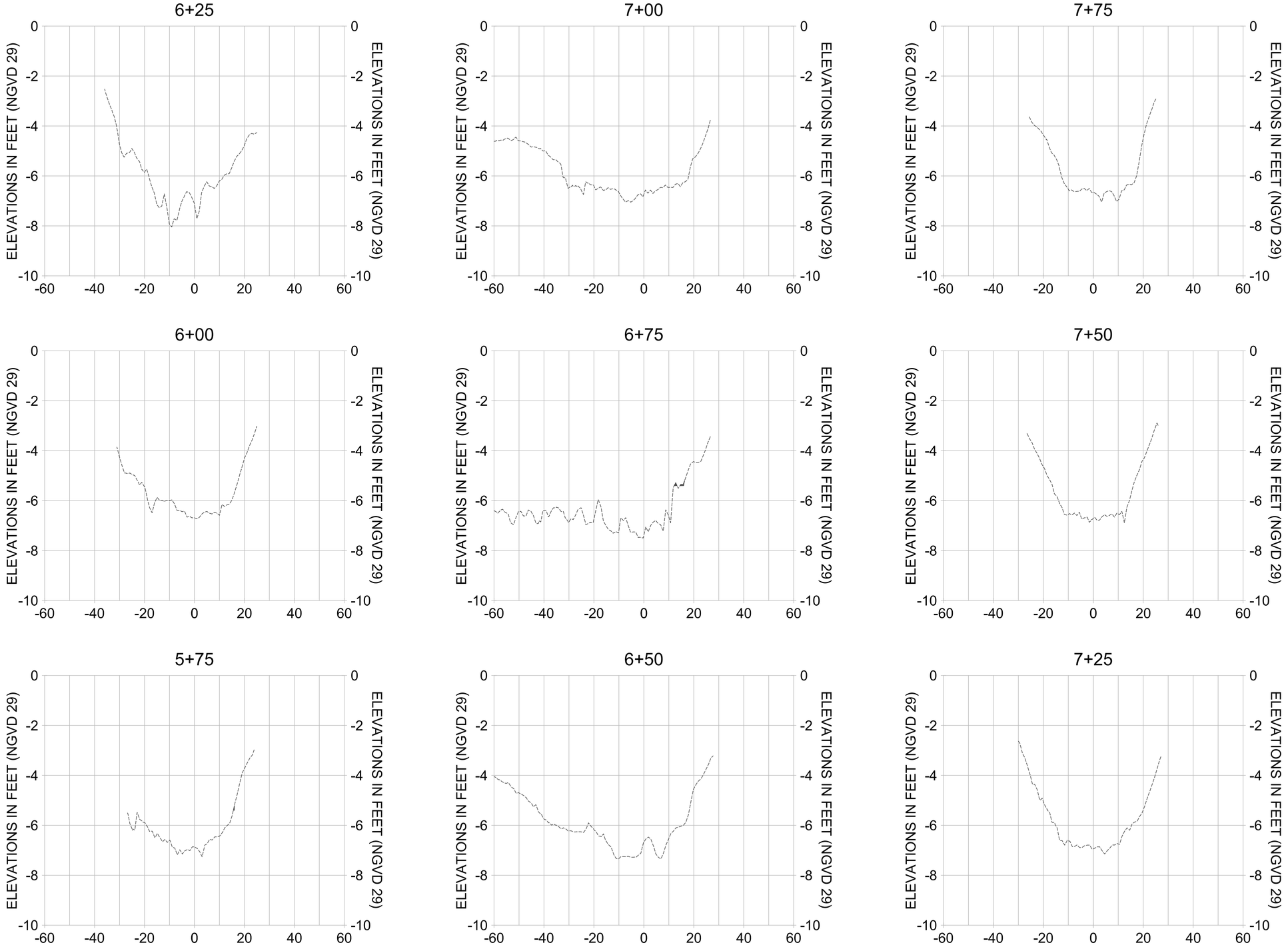
FAX: (813) 636-0652

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-625

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:28pm



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL M-M

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 274-7275
FAX: (813) 636-6562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-626

CONSTRUCTION DRAWINGS 100%

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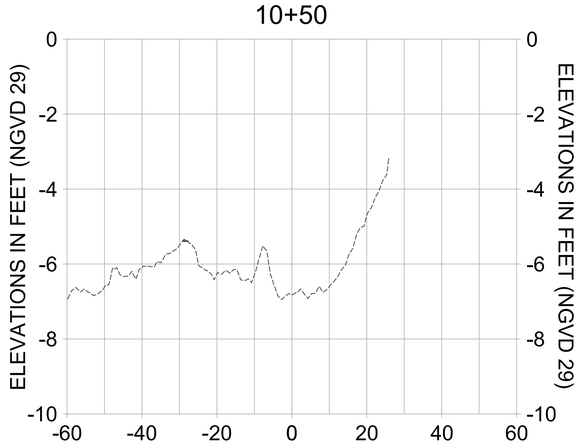
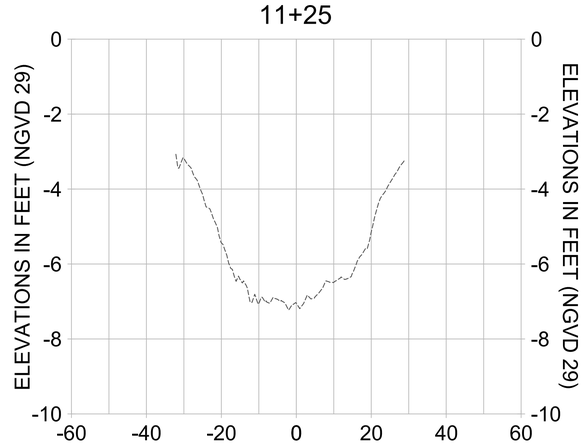
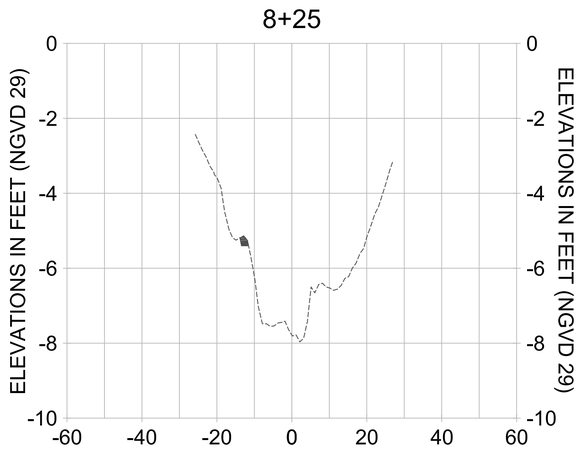
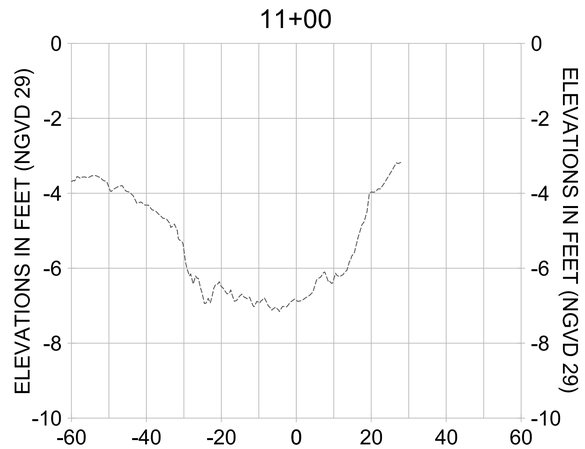
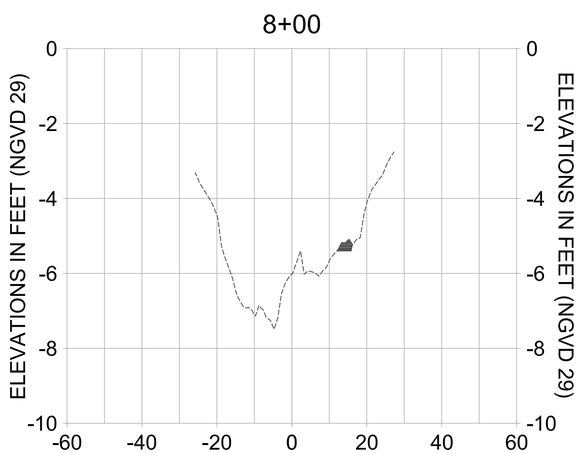
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:28pm

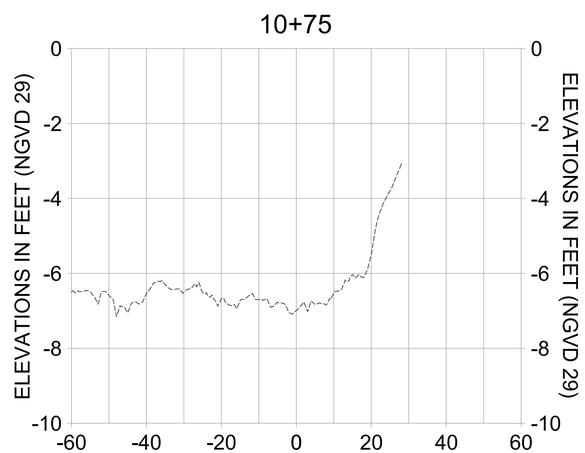


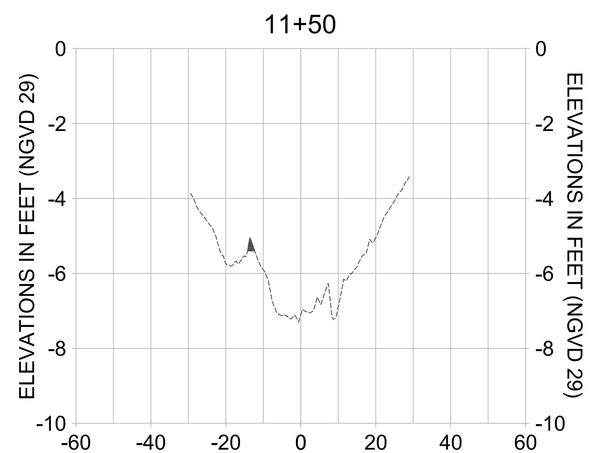












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL M-M

ATKINS
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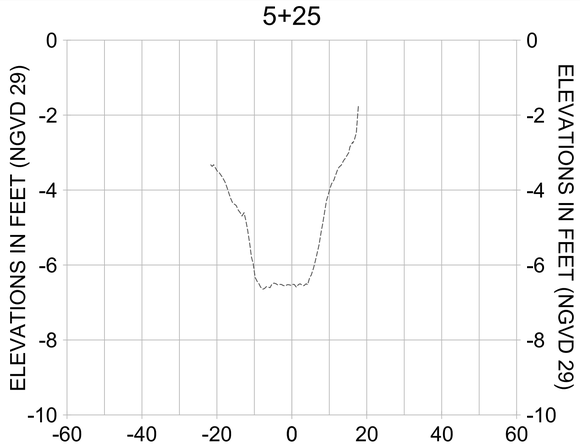
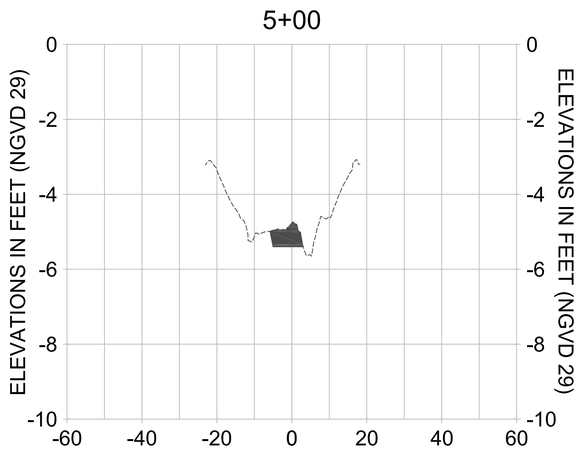
TEL: (813) 675-2275
FAX: (813) 636-4562

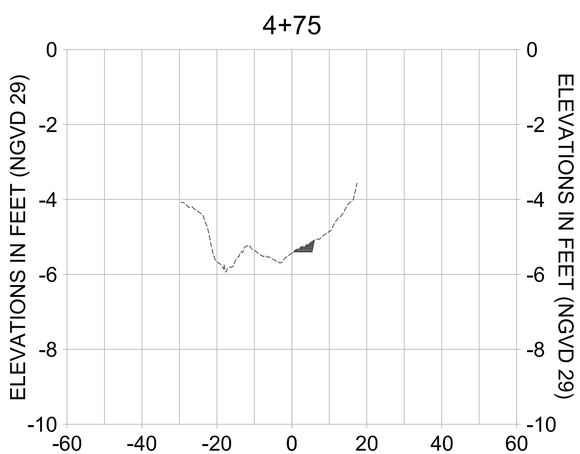
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-627

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:27pm







HORIZONTAL SCALE: 1" = 20'
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LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
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CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION

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DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL C-C

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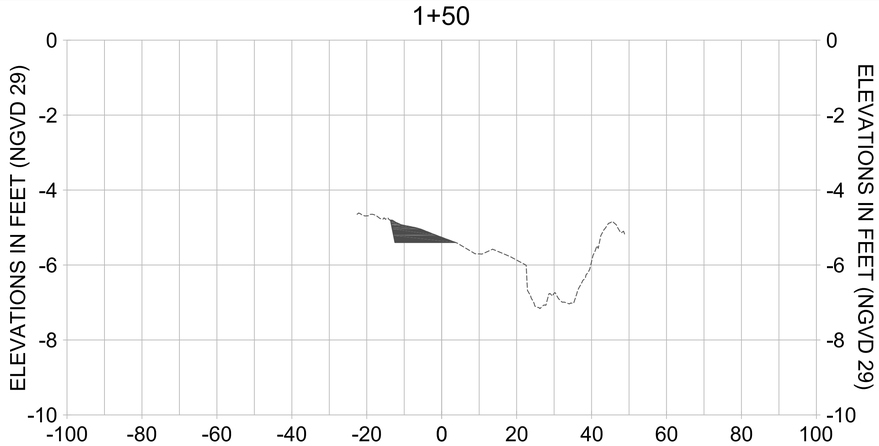
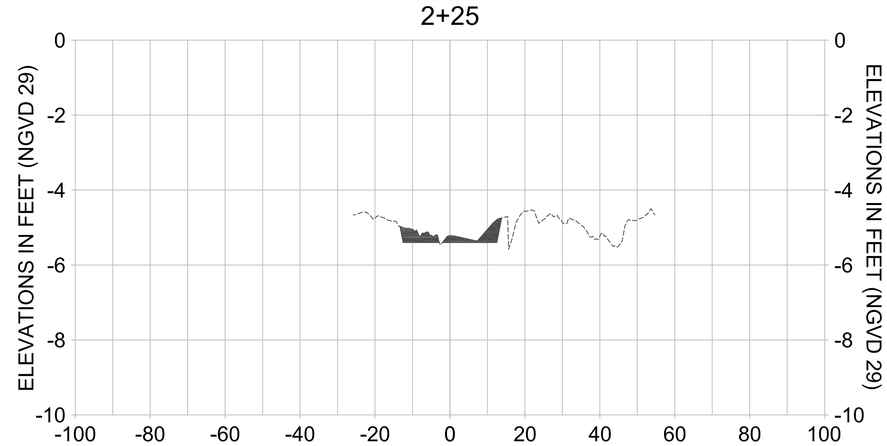
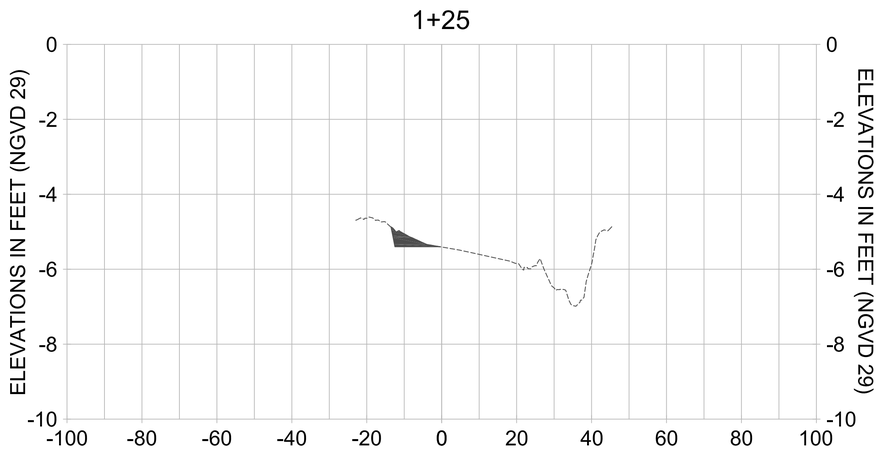
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-628

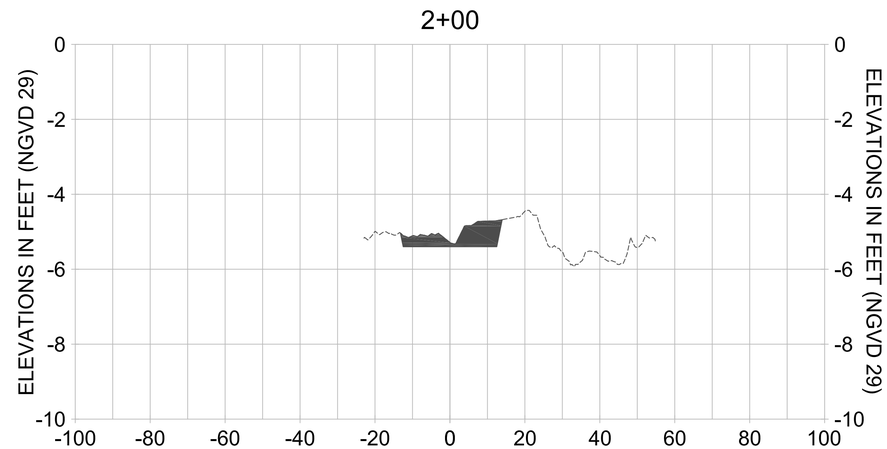
CONSTRUCTION DRAWINGS 100%

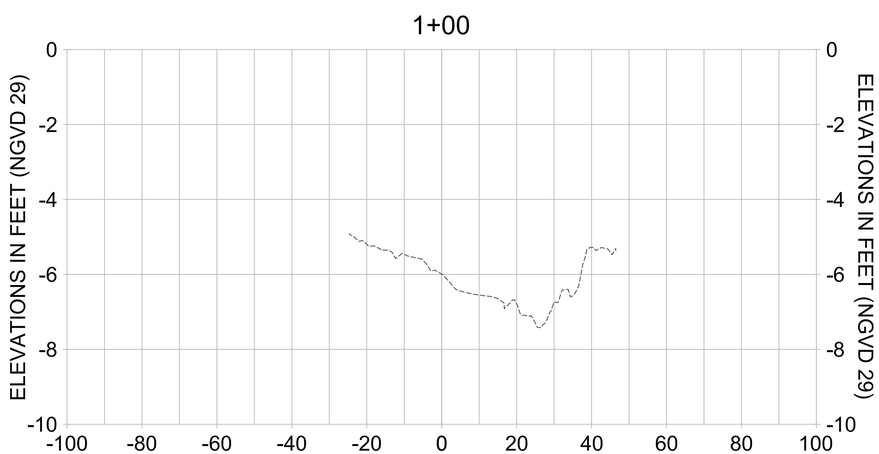
User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:27pm

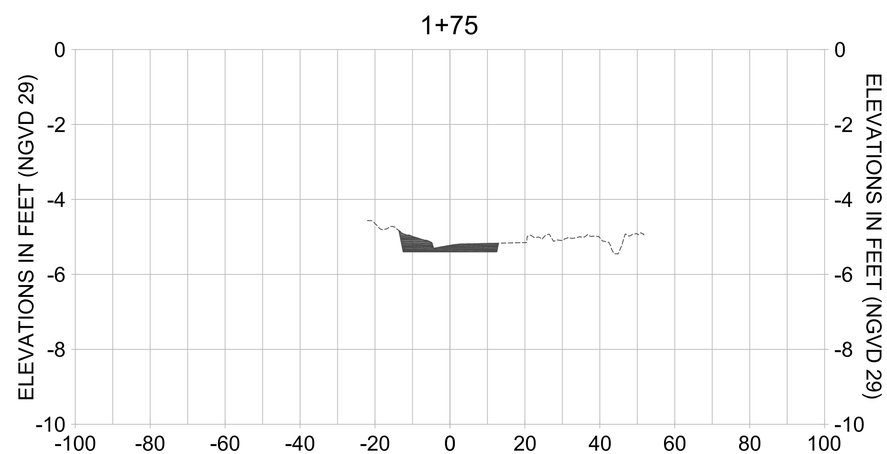












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA — ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

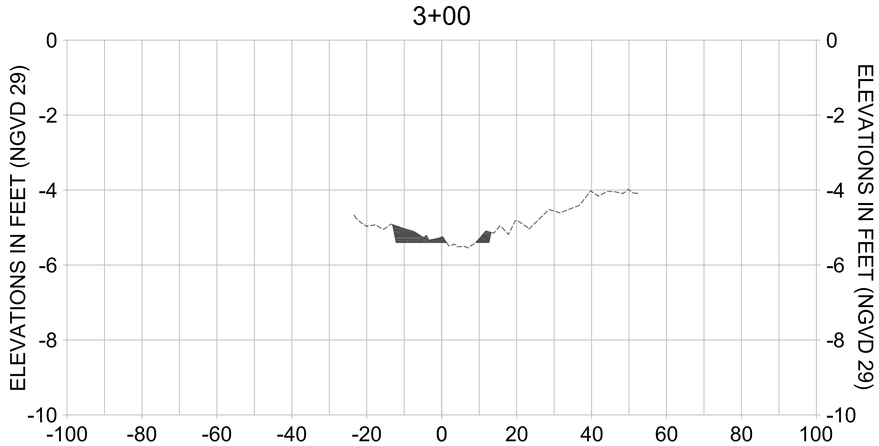
TITLE
CROSS SECTIONS - CANAL A-A

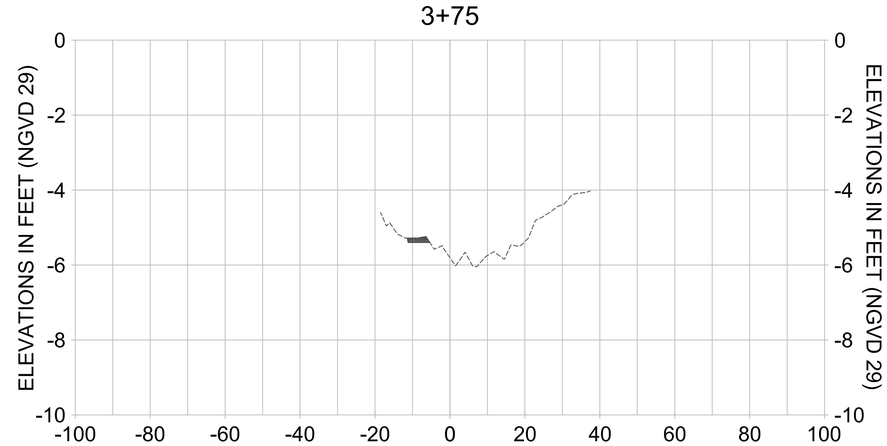
ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 275-7275
FAX: (813) 636-6582

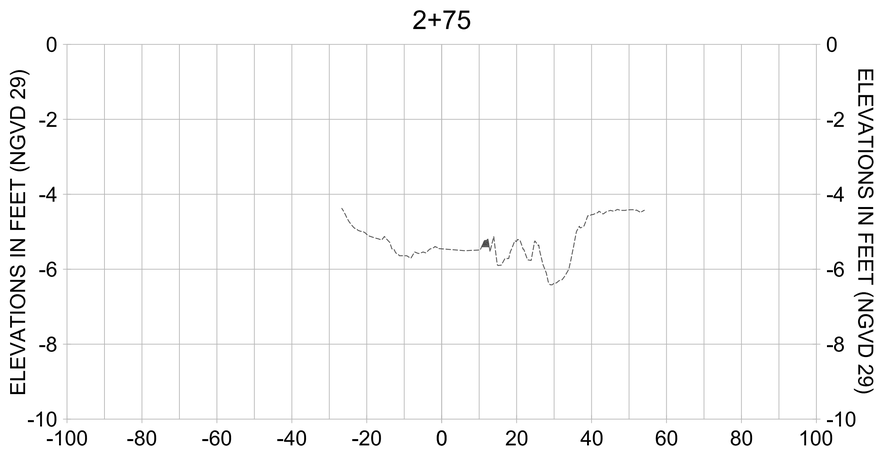
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-629

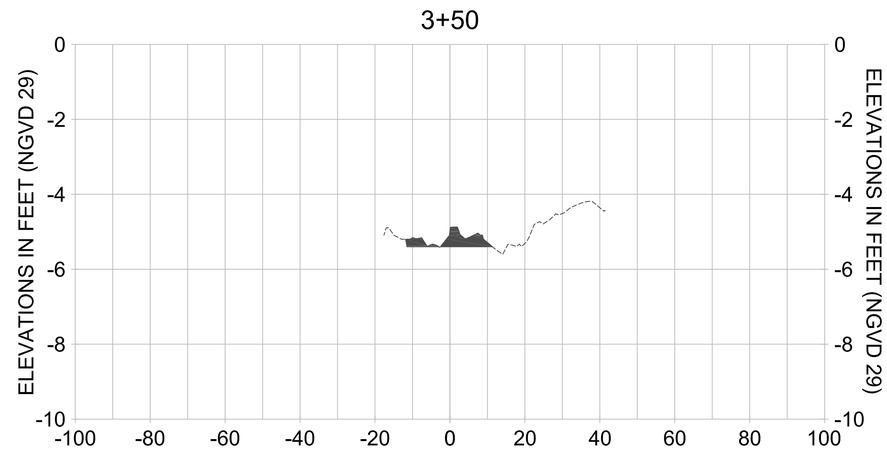
CONSTRUCTION DRAWINGS 100%

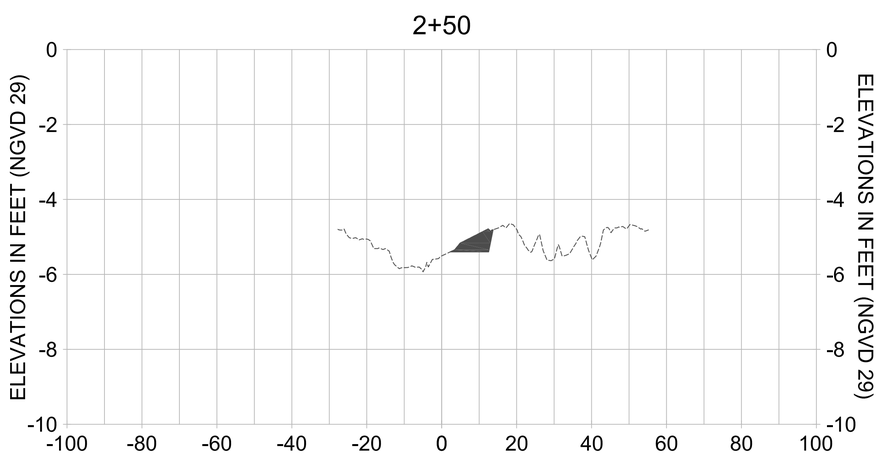
User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:28pm

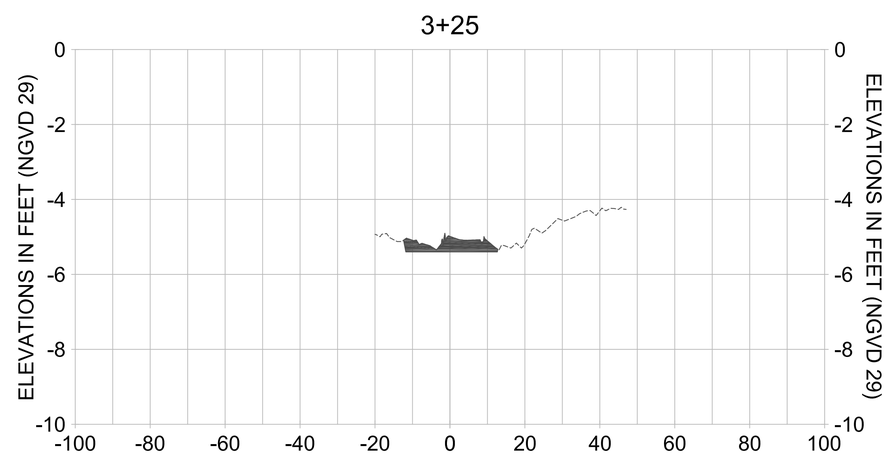












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL A-A

ATKINS
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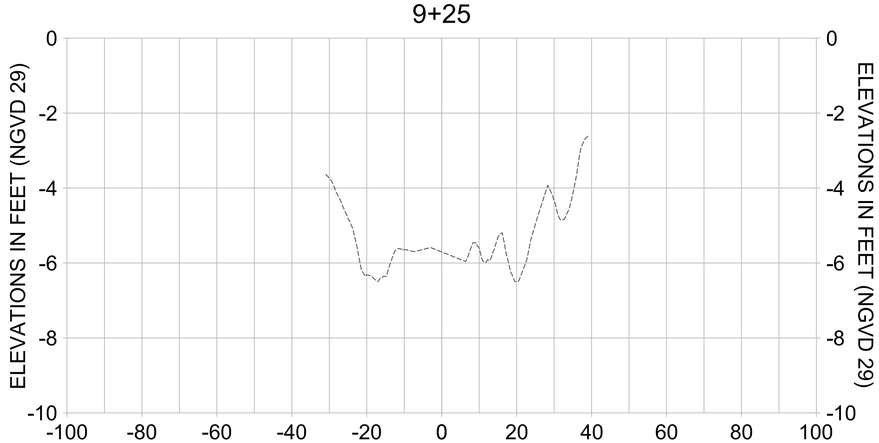
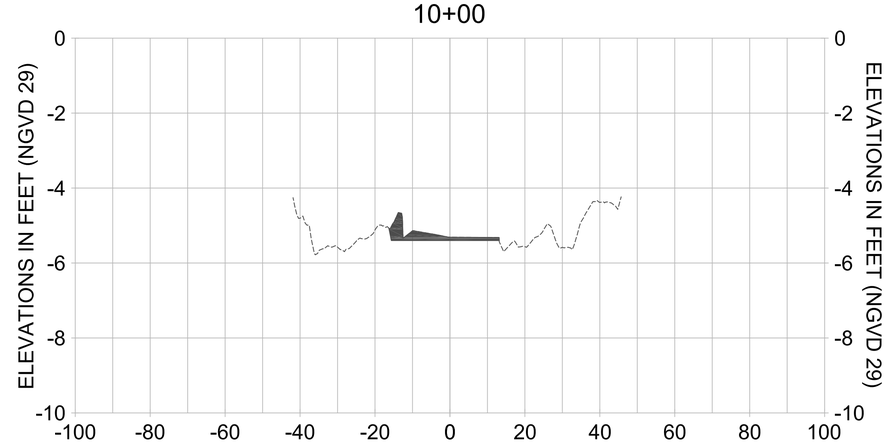
SUITE 700
TAMPA, FL 33607
TEL: (813) 275-7275
FAX: (813) 636-6582

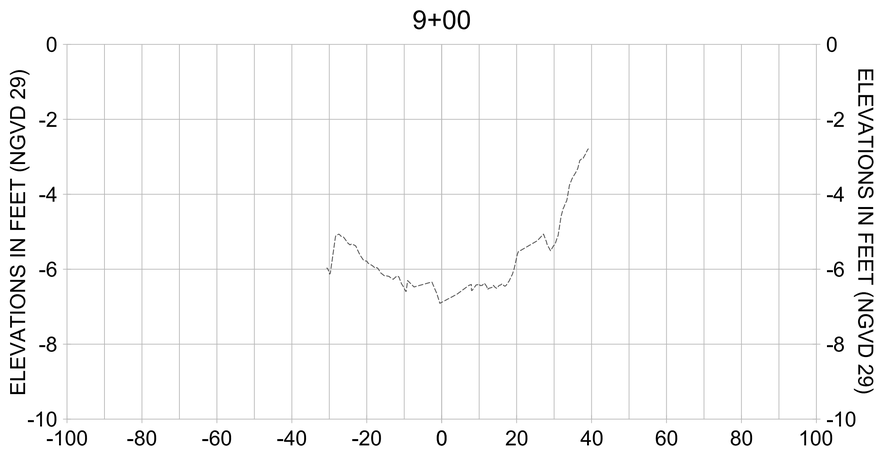
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-630

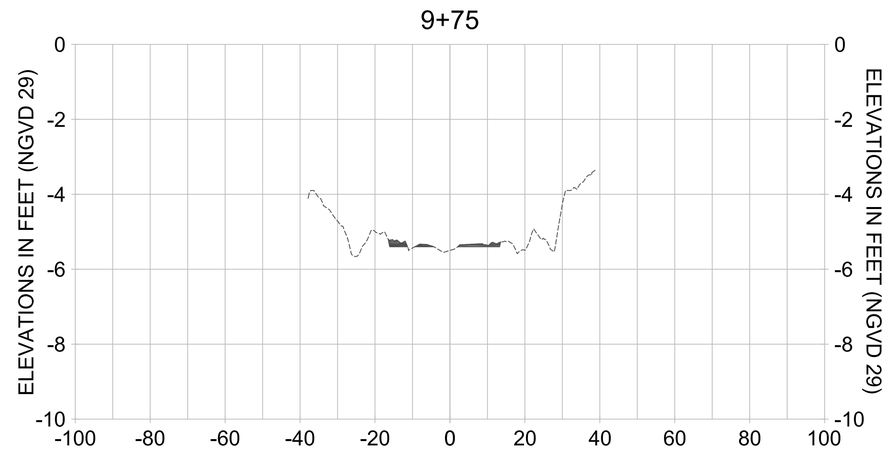
CONSTRUCTION DRAWINGS 100%

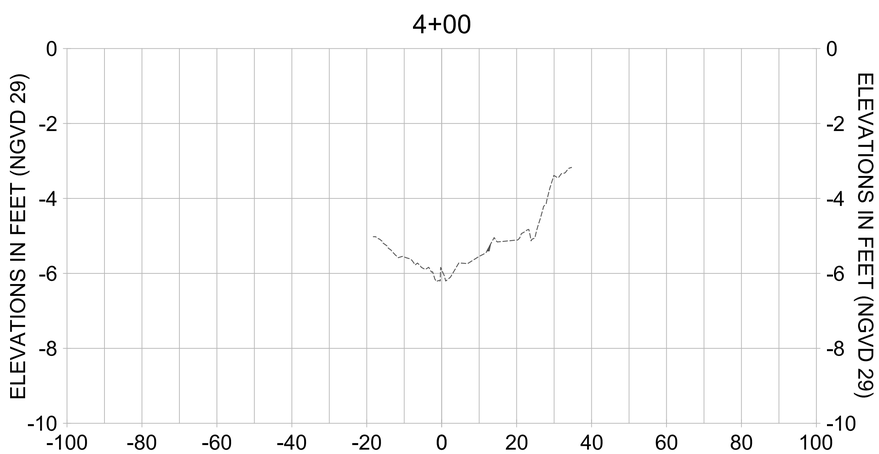
User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:28pm

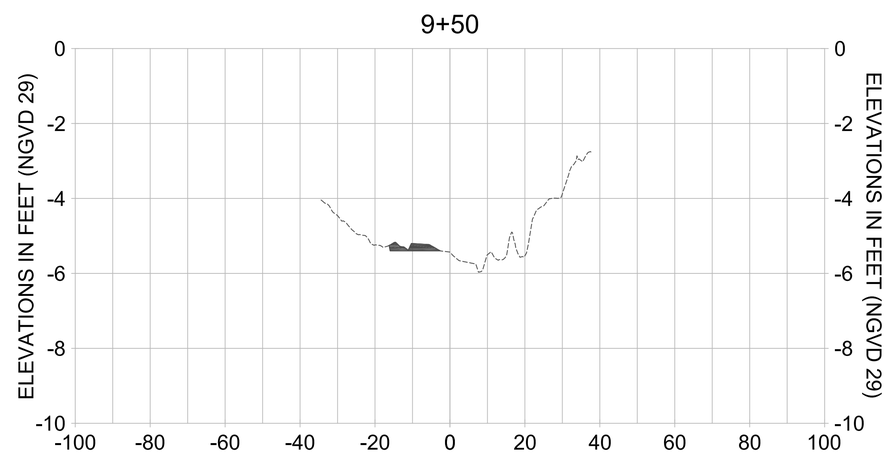












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA — ON THE GULF

REV.	DATE	DESCRIPTION
1		
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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CITY OF NAPLES
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NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

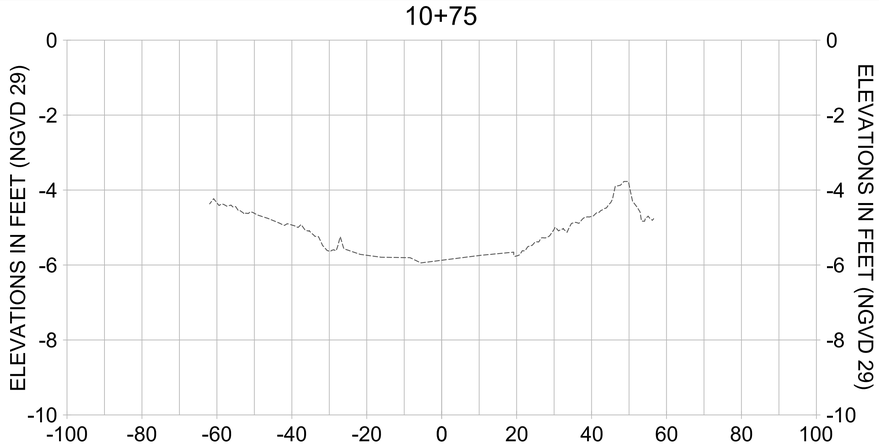
TITLE
CROSS SECTIONS - CANAL A-A

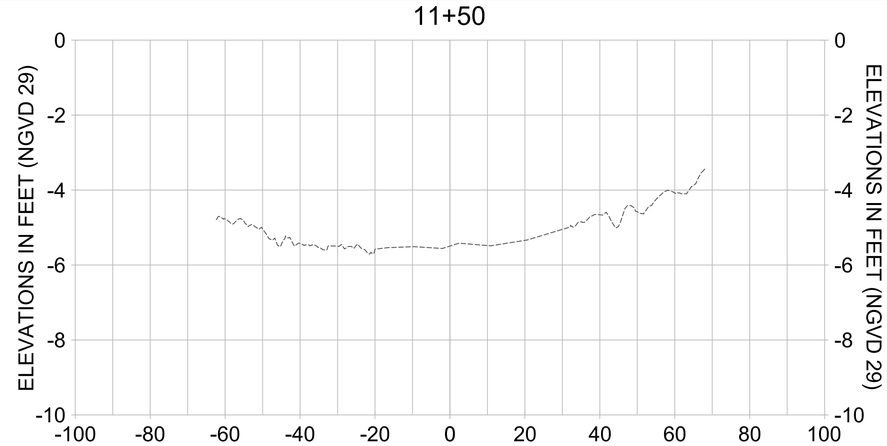
ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 474-7275
FAX: (813) 636-6562

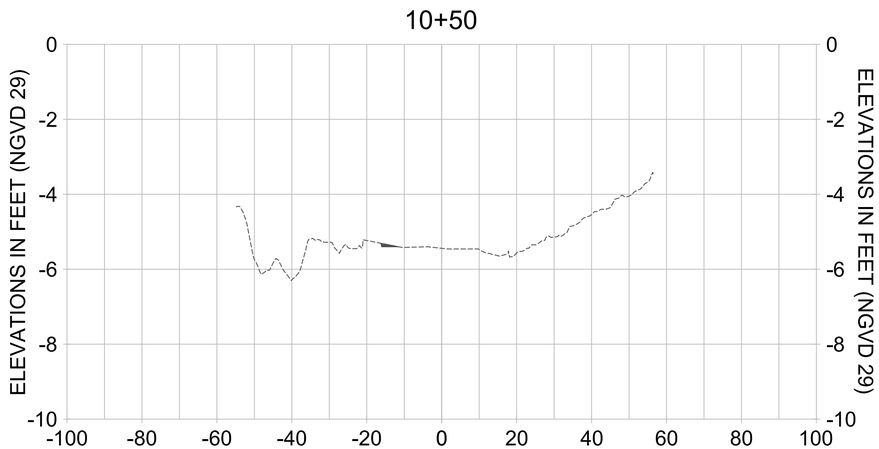
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-631

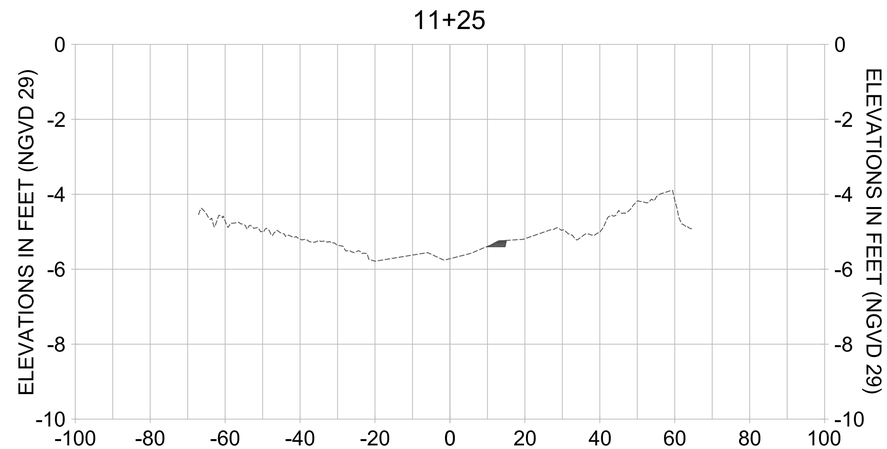
CONSTRUCTION DRAWINGS 100%

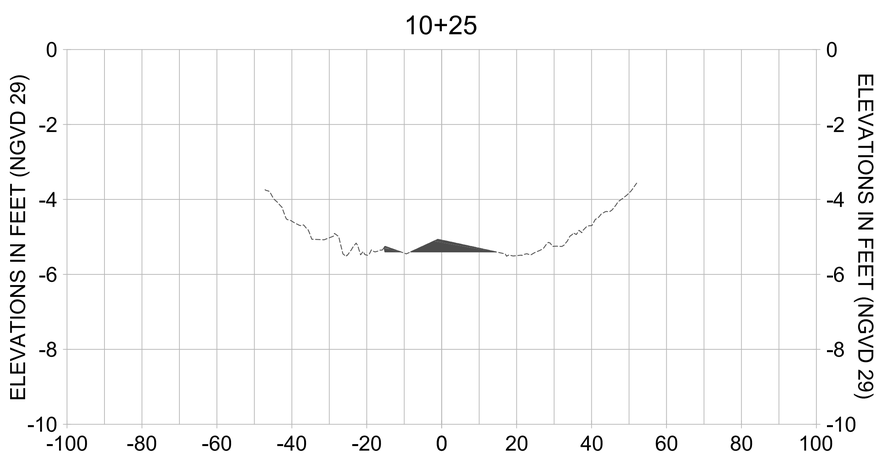
User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:29pm

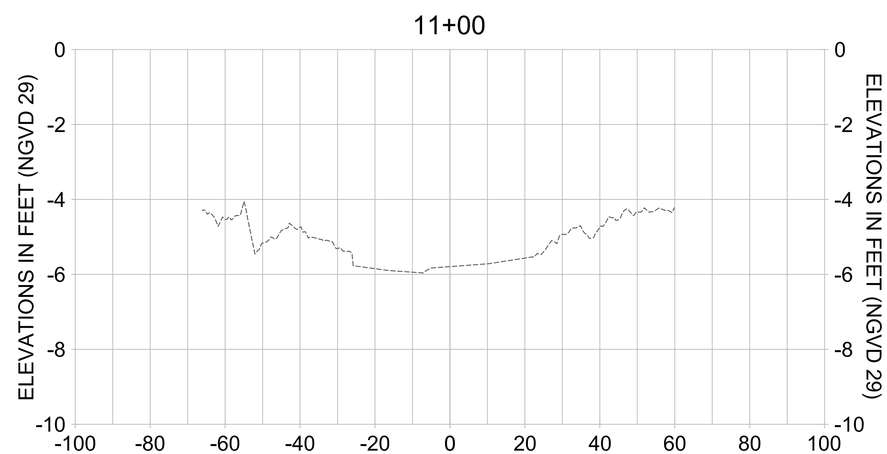












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION
1		
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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

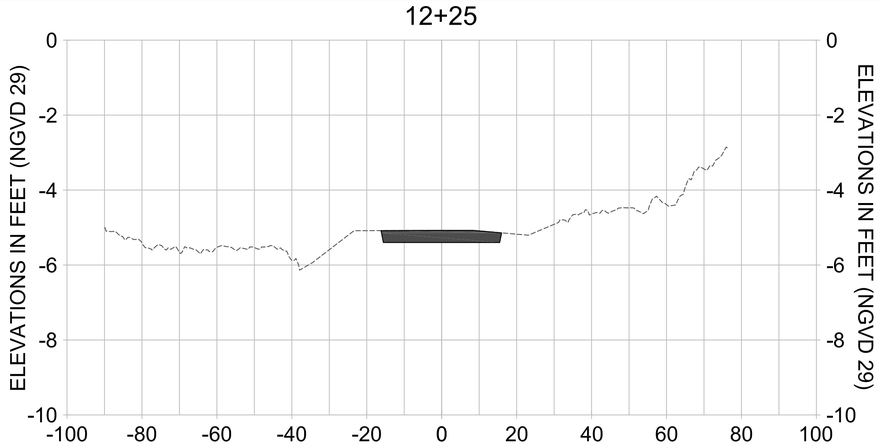
TITLE
CROSS SECTIONS - CANAL A-A

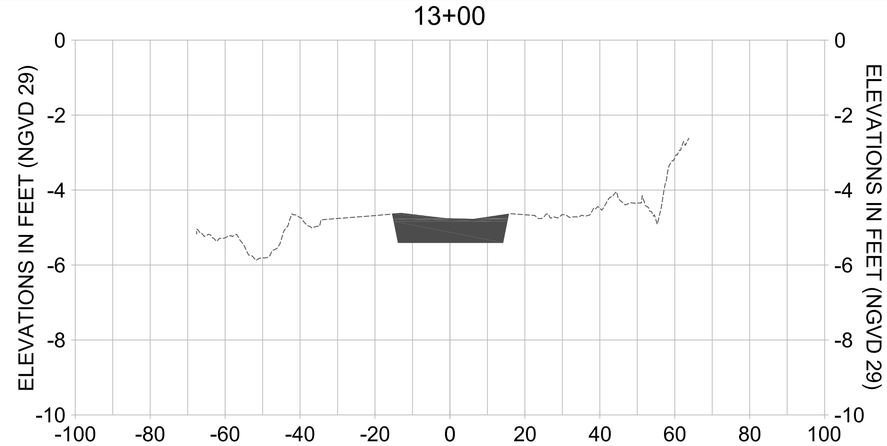
ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 275-7275
FAX: (813) 636-6582

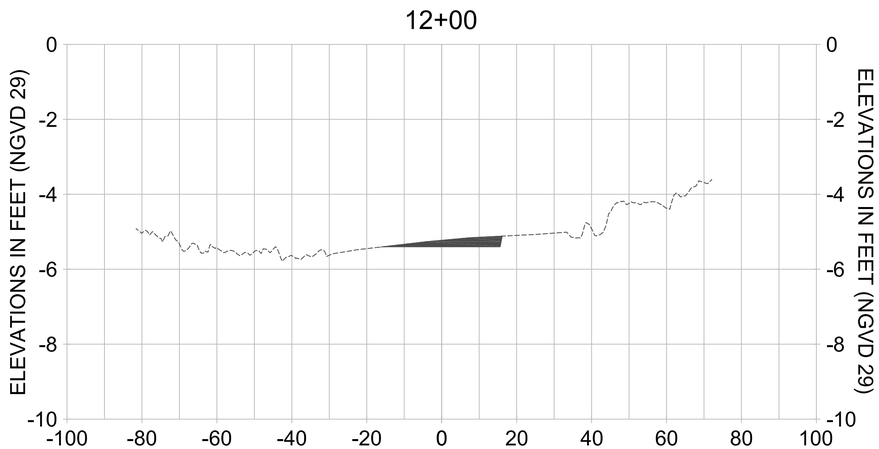
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-632

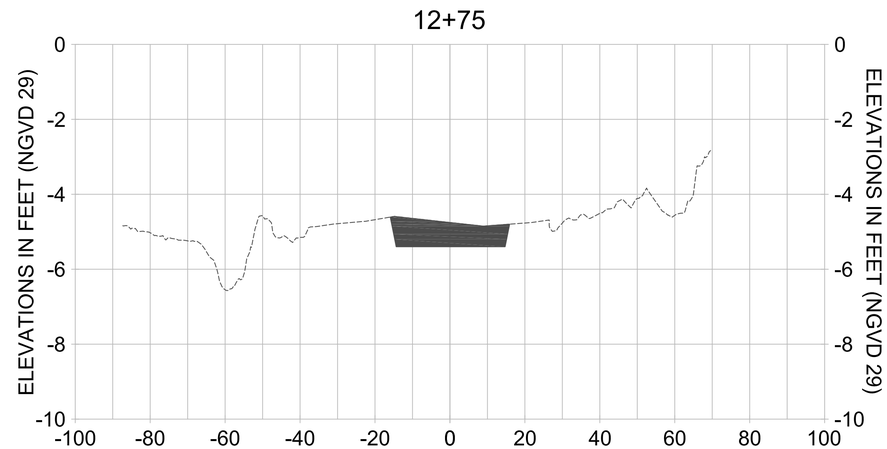
CONSTRUCTION DRAWINGS 100%

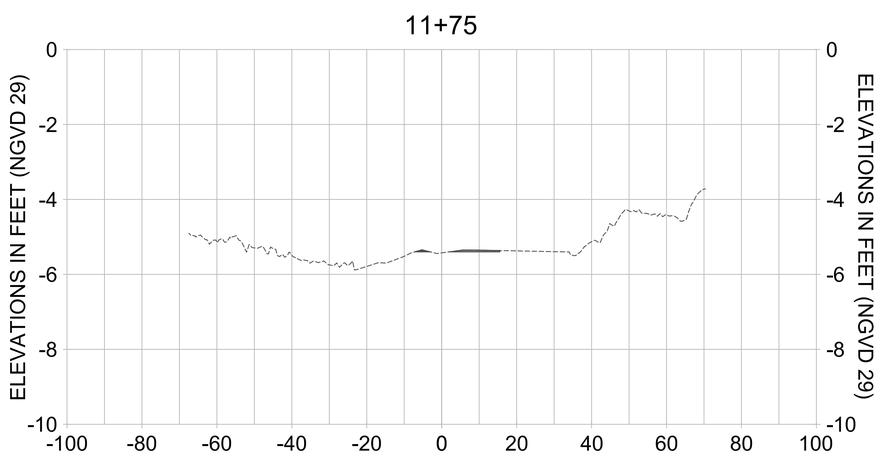
User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:38pm

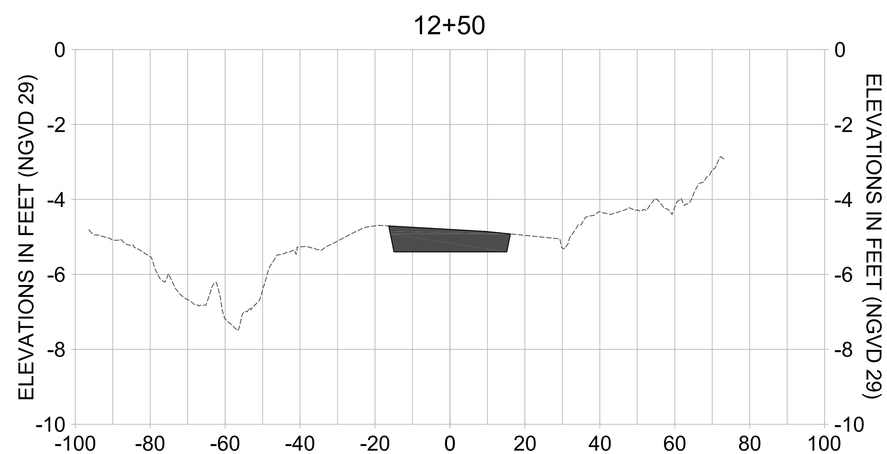












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION
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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL A-A

ATKINS
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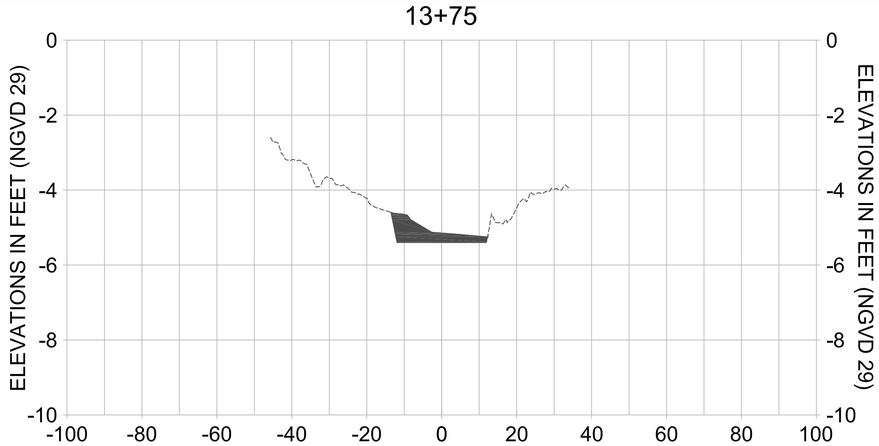
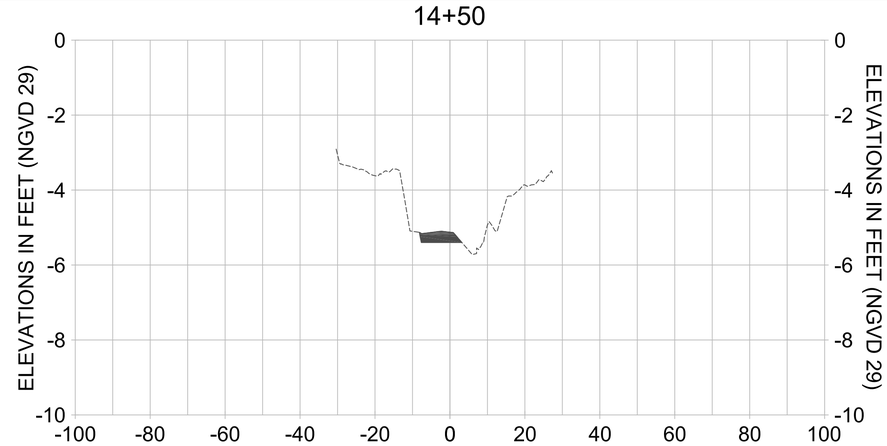
SUITE 700
TAMPA, FL 33607
TEL: (813) 275-7275
FAX: (813) 636-6582

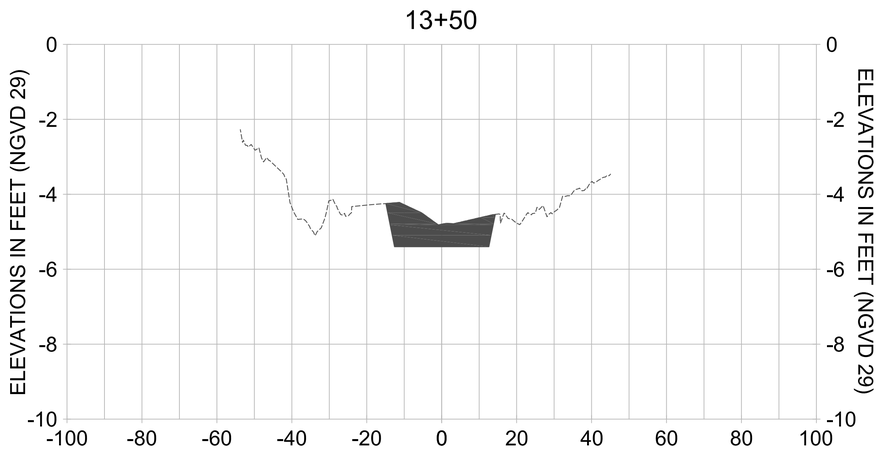
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-633

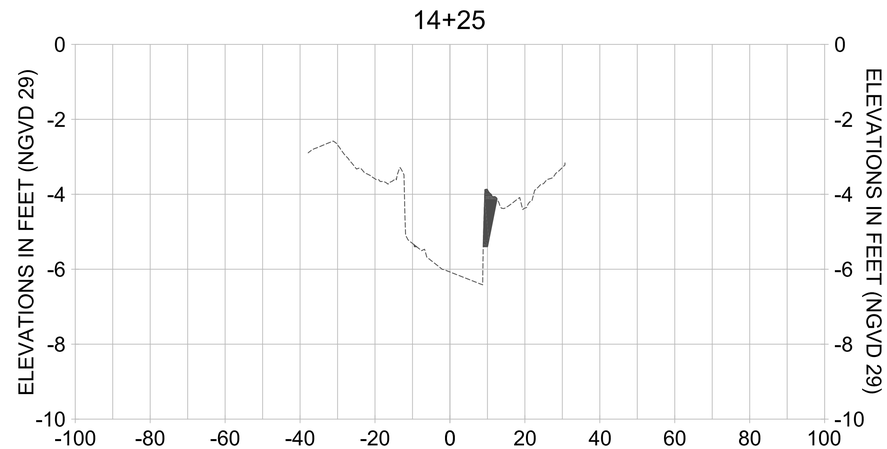
CONSTRUCTION DRAWINGS 100%

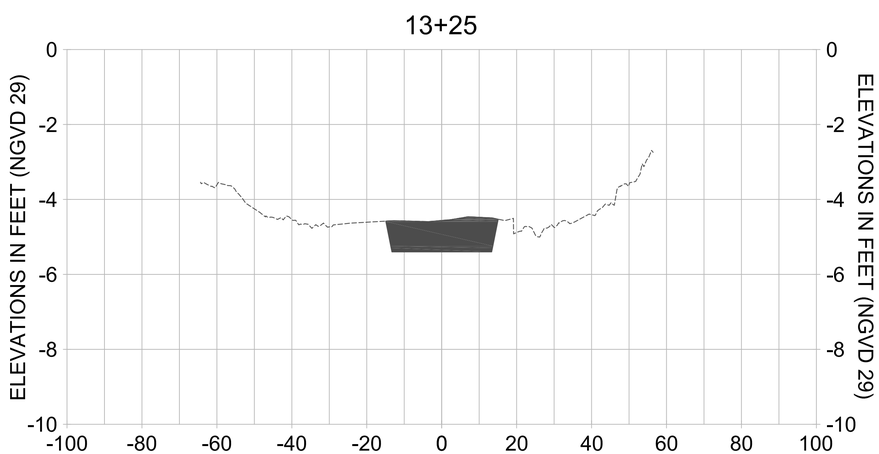
User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:38pm

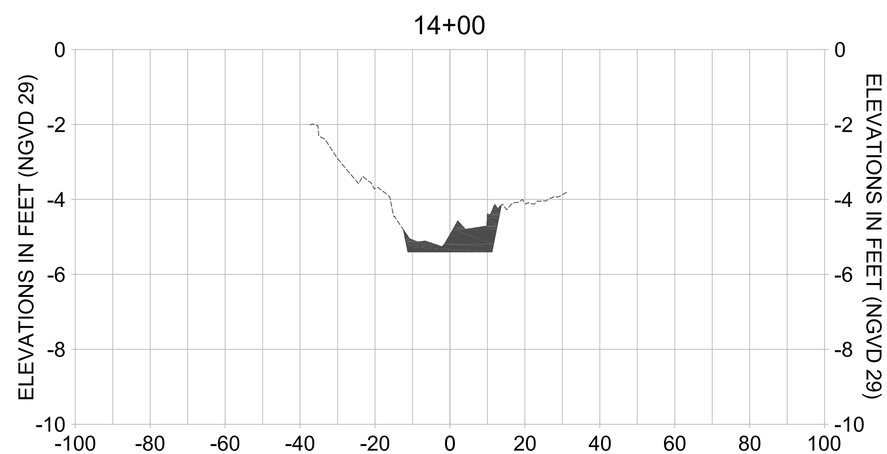












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

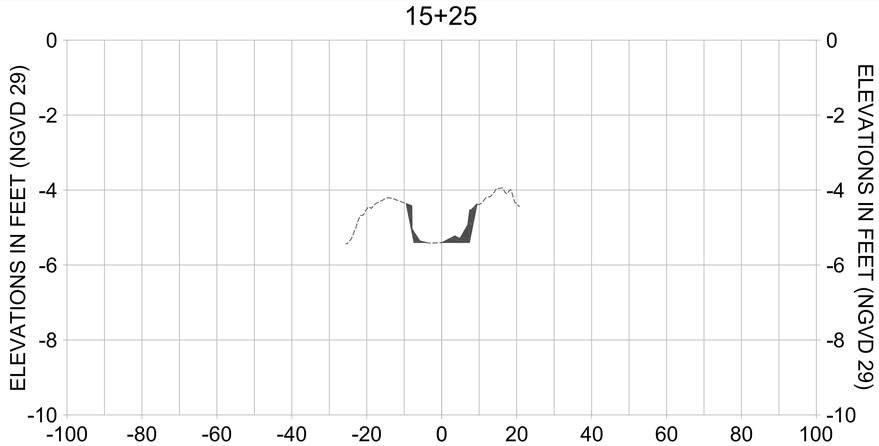
TITLE
CROSS SECTIONS - CANAL A-A

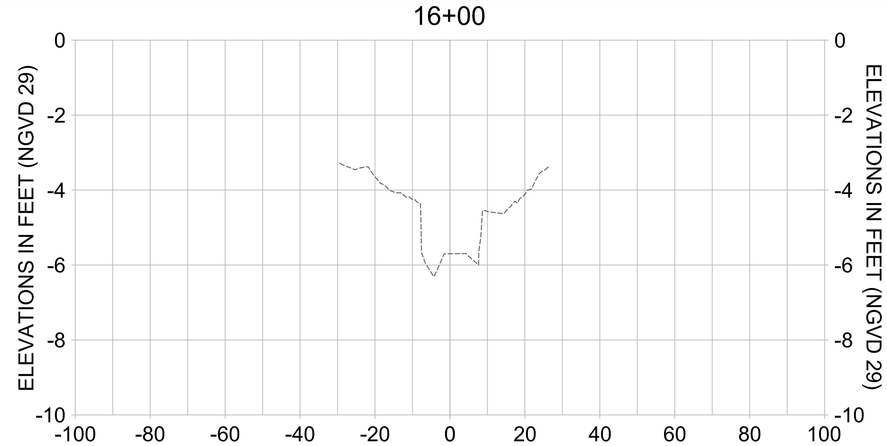
ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 274-7275
FAX: (813) 636-6582

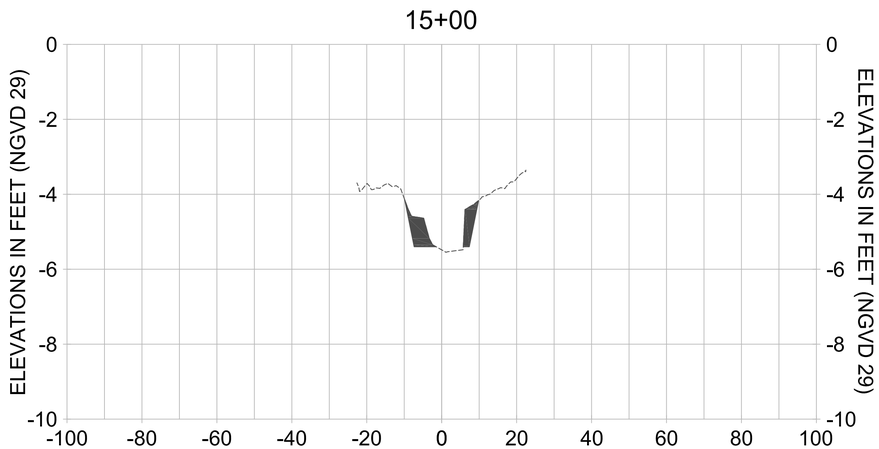
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-634

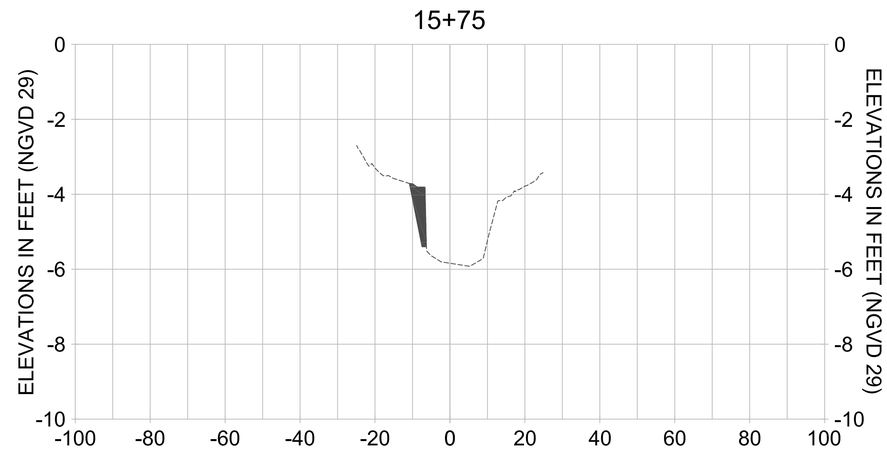
CONSTRUCTION DRAWINGS 100%

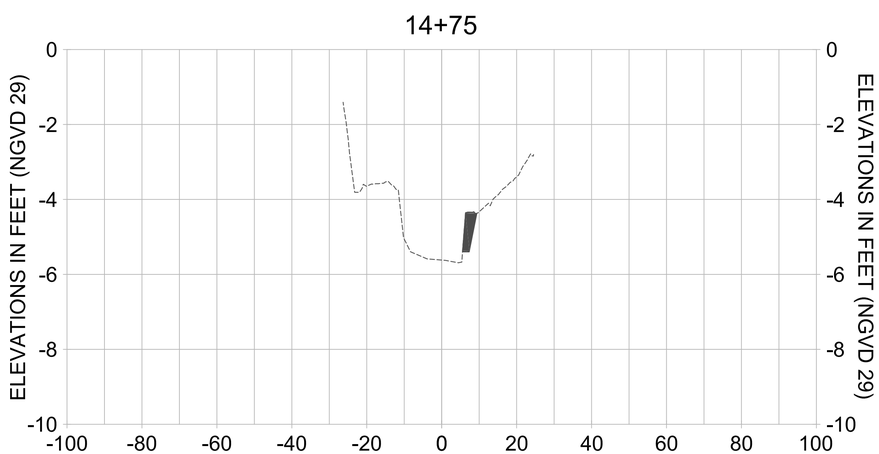
User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:38pm

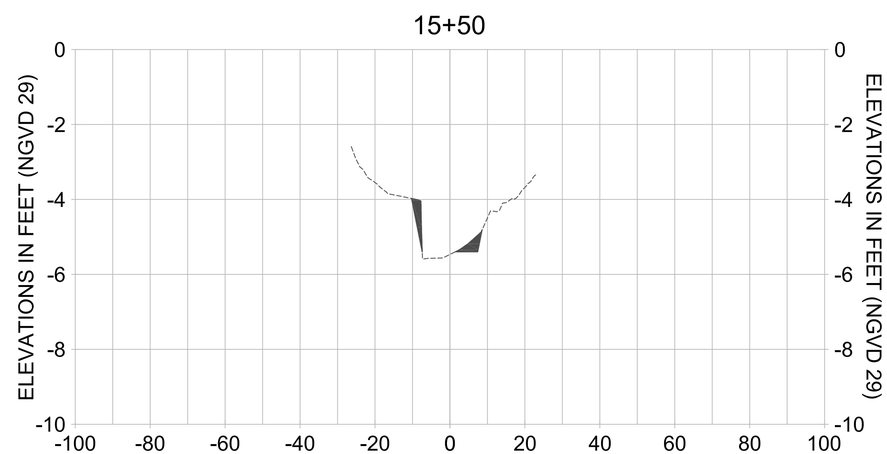












HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

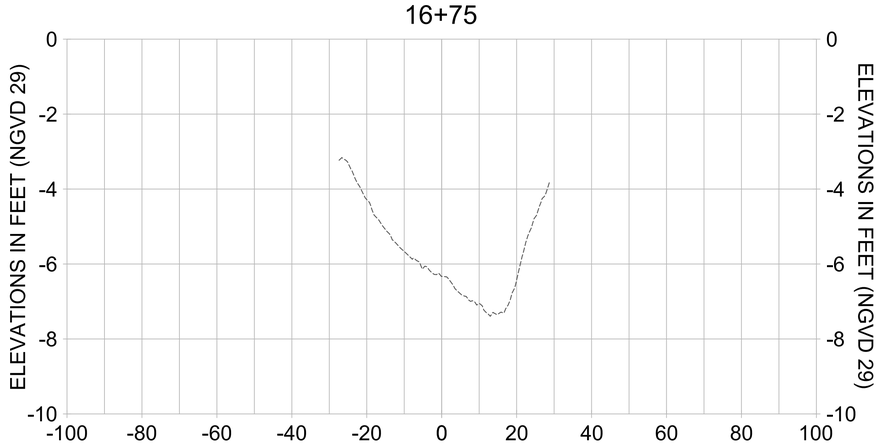
TITLE
CROSS SECTIONS - CANAL A-A

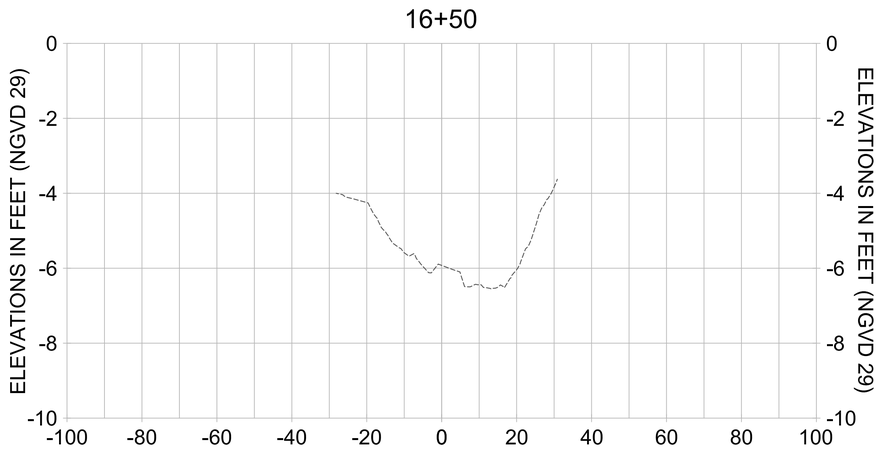
ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (813) 275-7275
FAX: (813) 636-6582

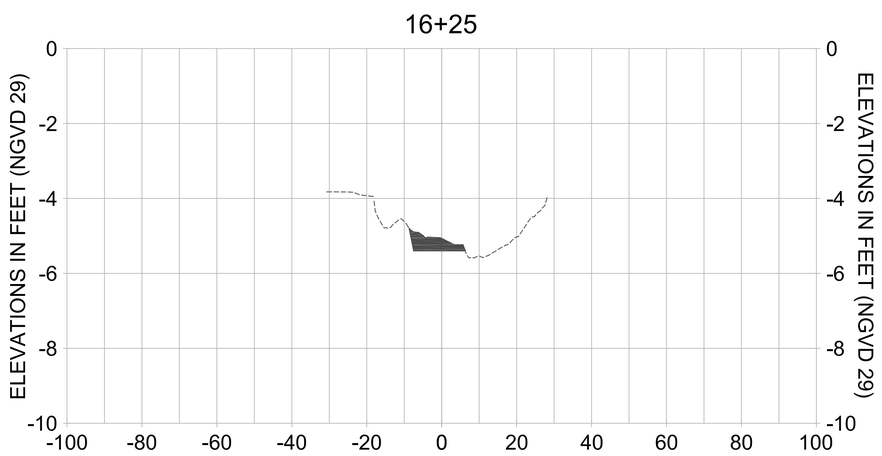
JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-635

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: K:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:31pm







HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LEGEND:
— — — PRE-CONSTRUCTION SURVEY (AUGUST 2012)
DREDGE TEMPLATE (-5.4' NGVD 29)

CITY OF NAPLES, FLORIDA
ON THE GULF

REV.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
CROSS SECTIONS - CANAL A-A

ATKINS
WWW.ATKINSGLOBAL.COM
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SUITE 700
TAMPA, FL 33607
TEL: (813) 475-7275
FAX: (813) 636-4562

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-636

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-600.dwg Feb 14, 2013 - 3:31pm

NOTES:

1.WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SEE DETAILS ON SHEET C-800)

2.TURBIDITY CURTAIN MAY MOVE UP AND DOWN CANALS AS NECESSARY TO ALLOW FOR CONTINUED FLOW OF VESSEL TRAFFIC AND TO MINIMIZE CANAL OBSTRUCTIONS.

3.TURBIDITY CURTAINS WILL MAINTAIN A TEN (10) FOOT BUFFER FROM OBSERVED OYSTER BEDS.

LEGEND:

DREDGING EXTENTS

TURBIDITY CURTAIN

CITY OF NAPLES, FLORIDA
ON THE GULF

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ORIGINAL ISSUED DATE :

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
TURBIDITY CURTAIN DETAILS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-700

CONSTRUCTION DRAWINGS 100%

User Name: 21985
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-700.dwg Feb 14, 2013 - 3:57pm

NOTES:

1.WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SEE DETAILS ON SHEET C-800)

2.TURBIDITY CURTAIN MAY MOVE UP AND DOWN CANALS AS NECESSARY TO ALLOW FOR CONTINUED FLOW OF VESSEL TRAFFIC AND TO MINIMIZE CANAL OBSTRUCTIONS.

3.TURBIDITY CURTAINS WILL MAINTAIN A TEN (10) FOOT BUFFER FROM OBSERVED OYSTER BEDS.

LEGEND:

DREDGING EXTENTS

TURBIDITY CURTAIN

CITY OF NAPLES, FLORIDA — ON THE GULF

REV	DATE	DESCRIPTION
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CLIENT: CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT: EAST NAPLES BAY DREDGING

TITLE: TURBIDITY CURTAIN DETAILS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-701

CONSTRUCTION DRAWINGS 100%

User Name: 21985
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-700.dwg Feb 14, 2013 - 3:57pm

MATCHLINE C-701
MATCHLINE C-702

MATCHLINE C-702
MATCHLINE C-703

CANAL V-V

CANAL R-R

CANAL S-S

CANAL R-R

JEWEL BOX AVENUE

DOLPHIN LANE

MULLET LANE

BONITA LANE

DOLPHIN ROAD

NO DREDGING IN CANAL T-T

NO DREDGING IN CANAL U-U

STA:0+00 STA:1+00 STA:2+00 STA:3+00 STA:4+00 STA:5+00 STA:6+00 STA:7+00 STA:8+00 STA:9+00 STA:10+00 STA:11+00 STA:12+00 STA:13+00 STA:14+00 STA:15+00 STA:16+00 STA:16+55

STA:0+00 STA:1+00 STA:2+00 STA:3+00 STA:4+00 STA:5+00 STA:6+00 STA:7+00 STA:8+00 STA:9+00 STA:10+00 STA:11+00 STA:12+00 STA:13+00 STA:14+00 STA:15+00 STA:16+00 STA:17+00 STA:18+00 STA:18+04

STA:0+00 STA:1+00 STA:2+00 STA:3+00 STA:4+00 STA:5+00 STA:5+36

STA:4+26 STA:4+00

STA:0+00

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

NOTES:

1.WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SEE DETAILS ON SHEET C-800)

2.TURBIDITY CURTAIN MAY MOVE UP AND DOWN CANALS AS NECESSARY TO ALLOW FOR CONTINUED FLOW OF VESSEL TRAFFIC AND TO MINIMIZE CANAL OBSTRUCTIONS.

3.TURBIDITY CURTAINS WILL MAINTAIN A TEN (10) FOOT BUFFER FROM OBSERVED OYSTER BEDS.

LEGEND:

DREDGING EXTENTS

TURBIDITY CURTAIN

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION
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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
TURBIDITY CURTAIN DETAILS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-702

CONSTRUCTION DRAWINGS 100%

User Name: 219885
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-700.dwg Feb 14, 2013 - 3:57pm

NOTES:

1. WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SEE DETAILS ON SHEET C-800)

2. TURBIDITY CURTAIN MAY MOVE UP AND DOWN CANALS AS NECESSARY TO ALLOW FOR CONTINUED FLOW OF VESSEL TRAFFIC AND TO MINIMIZE CANAL OBSTRUCTIONS.

3. TURBIDITY CURTAINS WILL MAINTAIN A TEN (10) FOOT BUFFER FROM OBSERVED OYSTER BEDS.

LEGEND:

DREDGING EXTENTS

TURBIDITY CURTAIN

CITY OF NAPLES FLORIDA — ON THE GULF

REV. BY	DATE	DESCRIPTION
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ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
TURBIDITY CURTAIN DETAILS

ATKINS
WWW.ATKINSGLOBAL.COM
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TEL. (800) 477-7275
FAX. (813) 636-6582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-703

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-700.dwg Feb 14, 2013 - 3:58pm

LEGEND:

DREDGING EXTENTS

TURBIDITY CURTAIN

NOTES:

1.WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SEE DETAILS ON SHEET C-800)

2.TURBIDITY CURTAIN MAY MOVE UP AND DOWN CANALS AS NECESSARY TO ALLOW FOR CONTINUED FLOW OF VESSEL TRAFFIC AND TO MINIMIZE CANAL OBSTRUCTIONS.

3.TURBIDITY CURTAINS WILL MAINTAIN A TEN (10) FOOT BUFFER FROM OBSERVED OYSTER BEDS.

CITY OF NAPLES, FLORIDA
ON THE GULF

REV. NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

DATE:

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CLIENT
CITY OF NAPLES
735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
TURBIDITY CURTAIN DETAILS

ATKINS
WWW.ATKINSGLOBAL.COM
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607
TEL: (800) 477-7275
FAX: (813) 636-0582

JOB NO.:	100032809
DRAWN:	MSS
DESIGN:	BDF
CHECKED:	JLP
APPROVED:	BDF
SHEET NO.	C-704

CONSTRUCTION DRAWINGS 100%

User Name: 21985
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-700.dwg Feb 14, 2013 - 3:58pm

NOTES:
1.WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SEE DETAILS ON SHEET C-800)

2.TURBIDITY CURTAIN MAY MOVE UP AND DOWN CANALS AS NECESSARY TO ALLOW FOR CONTINUED FLOW OF VESSEL TRAFFIC AND TO MINIMIZE CANAL OBSTRUCTIONS.

3.TURBIDITY CURTAINS WILL MAINTAIN A TEN (10) FOOT BUFFER FROM OBSERVED OYSTER BEDS.

LEGEND:

DREDGING EXTENTS

TURBIDITY CURTAIN

CITY OF NAPLES, FLORIDA
ON THE GULF

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		

ORIGINAL ISSUED DATE :

DATE:

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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735 8TH STREET SOUTH
NAPLES, FL 34102

PROJECT
EAST NAPLES BAY DREDGING

TITLE
TURBIDITY CURTAIN DETAILS

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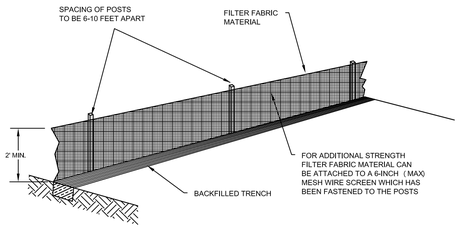
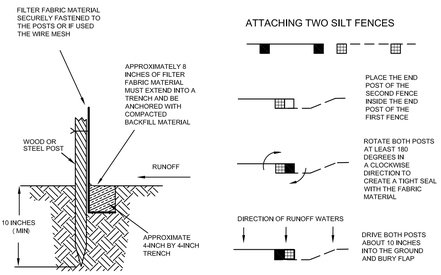
SHEET NO.	C-705

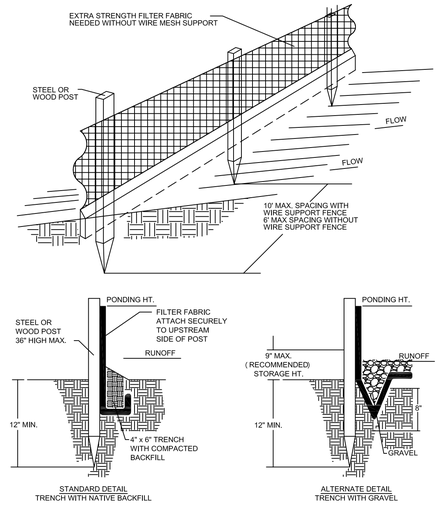
CONSTRUCTION DRAWINGS 100%

User Name: 21985
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-700.dwg Feb 14, 2013 - 3:58pm



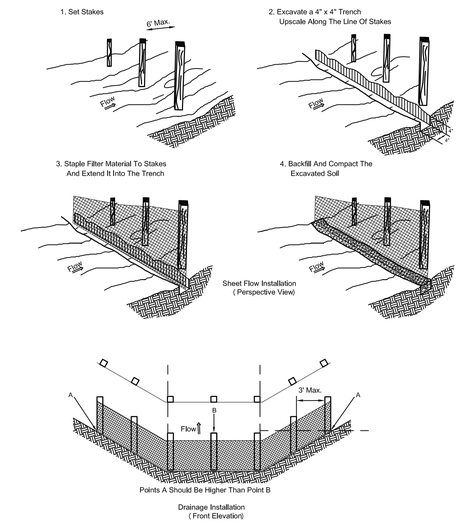


INSTALLING A FILTER FABRIC SILT FENCE

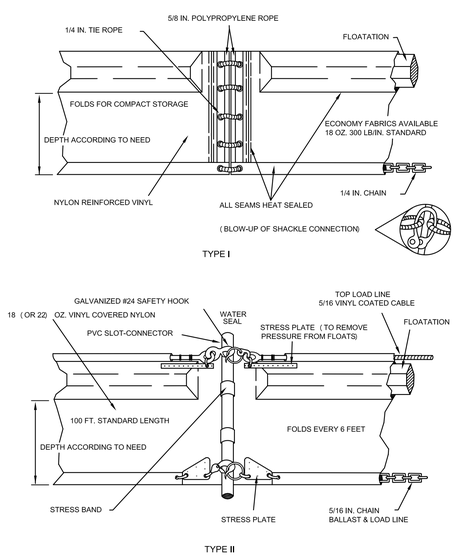


NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

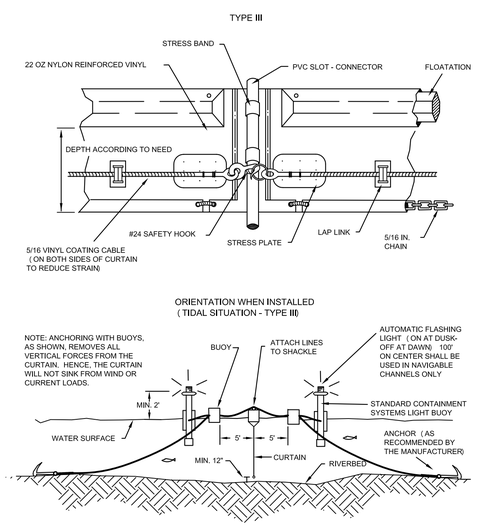
INSTALLING A FILTER FABRIC SILT FENCE



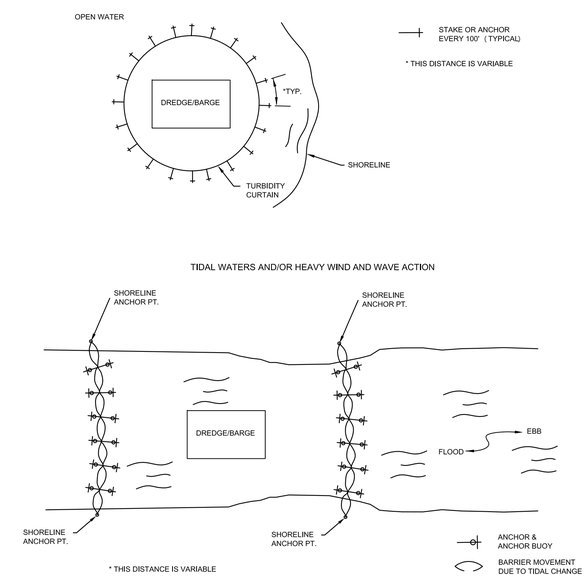
INSTALLING A FILTER FABRIC SILT FENCE



FLOATING TURBIDITY BARRIER TYPE (S) I & II



FLOATING TURBIDITY BARRIER TYPE III



TYPICAL INSTALLATION LAYOUT OF FLOATING TURBIDITY BARRIERS

CITY OF NAPLES FLORIDA ON THE GULF

REV. NO.	DATE	DESCRIPTION

ORIGINAL ISSUED DATE :

ENGINEER OF RECORD:
BRYAN D. FLYNN - FLORIDA P.E. #70856

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CITY OF NAPLES
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PROJECT
EAST NAPLES BAY DREDGING

TITLE
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DESIGN:	BDF
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APPROVED:	BDF
SHEET NO.	C-800

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase II\DWG\Construction Drawings 22x34\C-800.dwg Feb 14, 2013 - 4:00pm

BACKGROUND WATER QUALITY SAMPLING LOCATIONS

STATION	LATITUDE	LONGITUDE
1	26 09.375736	-81 47.089240
2	26 08.750303	-81 47.192993
3	26 07.971241	-81 47.361324
4	26 06.991496	-81 47.130524

BACKGROUND WATER QUALITY SAMPLING STATION ⊗

CITY OF NAPLES, FLORIDA — ON THE GULF

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CITY OF NAPLES
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PROJECT
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TITLE
BACKGROUND WATER QUALITY MONITORING LOCATIONS

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APPROVED:	BDF
SHEET NO.	C-801

CONSTRUCTION DRAWINGS 100%

User Name: 21685
Drawing Name: M:\Projects\East Naples Bay - 2013 Phase III\DWG\Construction Drawings 22x34\C-800.dwg Feb 14, 2013 - 4:01pm