Public Notice

U.S. Army Corps of Engineers
Baltimore District
PN 14-56

In Reply to Application Number
CENAB-OP-RMS (Narrows Pointe Council of Unit Owners/Living Shoreline) 2014-00645
Comment Period: November 3, 2014 to December 5, 2014

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.

This District has received an application for a Department of the Army permit pursuant to **Section 10 of the Rivers and Harbors Act of 1899 and/or Section 404 of the Clean Water Act (33. U.S.C. 1344)** as described below:

APPLICANT: Narrows Pointe Council of Unit Owners
512 Narrows Pointe Drive
Grasonville, Maryland 21638

WATERWAY AND LOCATION OF THE PROPOSED WORK: In the Chester River, at Narrows Pointe, Grasonville, Queen Anne's County, Maryland.

PROPOSED WORK AND PURPOSE: to stabilize approximately 1,945 linear feet of eroding shoreline by creating approximately 34,256 square feet of emergent intertidal wetlands by depositing approximately 800 cubic yards of sloped, clean select sand fill, stabilized with *Spartina alterniflora* and *S. patens*; to construct approximately 2,000 linear feet of high profile stone sill, varying from18-feet to 30feet wide at the base, with 11 tapering tidal vents with varied widths ranging from 6-foot to 20-foot wide at mean low water; and to construct 13 parallel and perpendicular low profile stone sills ranging from 7-foot to 23-foot long with varied widths ranging from 4-foot to 8-foot wide at mean low water elevation in between and landward of each vent. The proposed work would extend an average of approximately 15 feet channelward of the approximate mean high water (MHW) shoreline to extend no more than 35 feet channelward of the approximate MHW shoreline. The project would impact an approximate total of 1,742 square feet of existing tidal marsh in 3 distinct areas, which would be replaced by the proposed marsh creation. The work would be done from the shore via barge access. All work will be completed in accordance with the enclosed plan(s). If you have any questions concerning this matter, please contact Mr. Rod Schwarm at U.S. Corps of Engineers, Baltimore District, Baltimore, Maryland 21203-1715 or at 410-820-8550.

As part of the planning process for the proposed project, steps were taken to avoid and minimize the impacts to waters of the United States to the maximum extent by locating the proposed stone sill and marsh creation as close to the eroded shoreline as possible while still allowing for marsh creation. The project would minimize the potential impact to submerged aquatic vegetation (SAV) habitat and deeper water depths. The applicant has not proposed compensatory mitigation under the Mitigation Rule to offset unavoidable losses to aquatic resources since the proposed work would result in the creation of tidal wetlands.

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonable may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economic, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and consideration of property ownership and in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments provided will become part of the public record for this action. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, Mr. Rod Schwarm at U. S. Corps of Engineers, Baltimore District, Baltimore, Maryland 21203-1715 within the comment period specified above.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH). The portion of the project located in the Bishopville Prong of the St. Martins River lies in or adjacent to EFH as described under the MSFCMA for *Scopthalmus aquosos* (windowpane flounder) juvenile and adult; *Pomatomus saltatrix* (blue fish) juvenile and adult; *Paralicthys dentatus* (summer flounder) juvenile and adult; and the eggs, larvae, juvenile, and adult stages of *Sciaenops ocellatus* (red drum), *Scomberomorus cavalla* (king mackerel), *Scomberomorus maculatus* (Spanish mackerel), and *Rachycentron canadum* (cobia), managed species under the MSFCMA.

The project has the potential to adversely affect EFH or the species of concern by loss of spawning, nursery, forage and/or shelter habitat as described under the MSFCMA for the species and life stages identified above. The proposed project would potentially impact a total of 67,324 square feet (33,068 square feet for the proposed stone sills and 34,256 square feet for the proposed sand fill for the marsh creation) of EFH habitat and/or Habitat Areas of Particular Concern as the entire proposed project area has been mapped by

VIMS as documented SAV habitat. The Baltimore District has made a preliminary determination that site-specific impacts would not be substantial and an abbreviated consultation will be conducted with NMFS. This determination may be modified if additional information indicates otherwise and would change the preliminary determination. The Baltimore District has determined that the adverse effects of this project would be more than minimal, although not substantial, and an abbreviated consultation will be conducted with NMFS. No mitigation measures are recommended to minimize adverse effects on EFH at this time. This determination may be modified if additional information indicates otherwise and would change the preliminary determination.

WATER QUALITY CERTIFICATION: The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act from the **Maryland Department of the Environment**. Any written comments concerning the work described above which relate to water quality certification must be received by the Wetlands and Waterways Program, Maryland Department of the Environment, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period as specified above to receive consideration. The Section 401 certifying agency has a statutory limit of one year from the date of this public notice to make its decision.

COASTAL ZONE MANAGEMENT PROGRAMS: Where applicable, the applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the approved Coastal Zone Management (CZM) Program. By this public notice, we are requesting the State concurrence or objection to the applicant's consistency statement. It should be noted that the CZM Program has a statutory limit of 6 months to make its consistency determination.

The applicant must obtain any State or local government permits which may be required.

A preliminary review of this application indicates that the proposed work will not affect Federal listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

Review of the latest published version of the National Register of Historic Places indicates that no registered properties listed as eligible for inclusion, therein, are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the request permit.

The evaluation of the impact of this project on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 of the Clean Water Act.

Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, Mr. Rod Schwarm at U.S. Corps of Engineers, Baltimore District, Baltimore, Maryland 21203-1715 or at 410-820-8550, within the comment period as specified above to receive consideration. Also it must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected.

It is requested that you communicate this information concerning the proposed work to any persons know by you to be interested and not being known to this office, who did not receive a copy of this notice.

FOR THE DISTRICT ENGINEER:

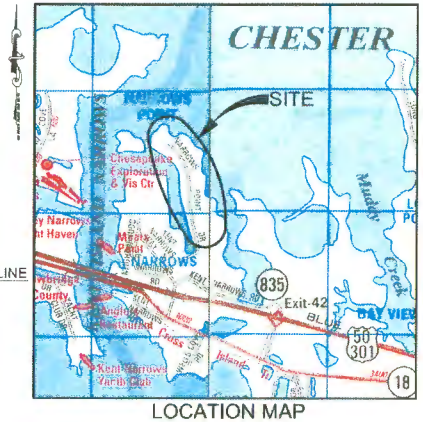
Kathy B. Anderson

KATHY B. ANDERSON
Chief, Maryland Section Southern

NARROWS POINTE
LIVING SHORELINE
SECD 06-10

MARYLAND DEPARTMENT OF NATURAL RESOURCES
SHORELINE CONSERVATION SERVICE

VICINITY MAP
(NTS)



LOCATION MAP
N T S

DRAWING SHEET INDEX

1 of 13 COVER SHEET (C1.0)
2 of 13 EXISTING CONDITIONS & DEMO PLAN I (C2.0A)
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5 of 13 EXISTING CONDITIONS 2012 SAV (C2.0D)
6 of 13 SITE PLAN I (C3.0A)
7 of 13 SITE PLAN II (C3.0B)
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13 of 13 BORING INFORMATION PLAN (C6.0)

SEQUENCE OF CONSTRUCTION

		APPROXIMATE TIMELINE
1	ESTABLISH THAT ALL PERMITS HAVE BEEN OBTAINED AND NOTIFY MARYLAND DEPARTMENT OF ENVIRONMENT WATER RESOURCES ADMINISTRATION (MDE–WRA) INSPECTION AND COMPLIANCE DIVISION (410.537.3510) TWO WEEKS PRIOR TO STARTING WORK TO SCHEDULE A PRE–CONSTRUCTION MEETING AMONG ALL PROJECT REPRESENTATIVES AND LOCAL STAKEHOLDERS.	DAY
2	CONTRACTOR SHALL REVIEW AND EVALUATE WITH NARROWS POINTE COUNCIL OF UNIT OWNERS (NPCUO) WHICH PHASE(S) ARE TO BE INSTALLED FIRST. CONTRACTOR SHALL ENSURE VIABILITY OF WATER ACCESS TO ENSURE ALL WORK WILL BE DONE FROM SHORE VIA BARGE ACCESS.	1 DAY
3	STAKE OUT LIMITS OF DISTURBANCE AND ALL STATIONS OF PROPOSED STONE SILLS THAT ARE TO BE INSTALLED FOR THE RESPECTIVE PHASE.	4 DAYS
4	HOLD PRE–CONSTRUCTION MEETING AT THE JOB SITE AT LEAST 3–DAYS PRIOR TO ACTUAL START OF WORK. AT A MINIMUM, THIS MEETING SHALL INCLUDE THE CONTRACTOR, NPCUO OR THEIR DESIGNATED REPRESENTATIVE, AND THE QUEEN ANNE'S COUNTY REPRESENTATIVE OR PROJECT INSPECTOR (410.758.0835). DURING THIS MEETING THE PHASE WORK GOALS AND PROCEDURES SHALL BE DISCUSSED AND BARGE ACCESS POINTS REVIEWED; ANY ADJUSTMENTS TO SILL LOCATIONS SHALL BE MADE AS WELL AS THE INCLUSION OF TREE PROTECTION FENCING IF DEEMED NECESSARY.	1 DAY
5.	WITH RESPECT TO WHICH PHASE (I, II, III, or IV) IS TO BE INSTALLED; COMPLETE REQUIRED DEMOLITION, REMOVAL AND/OR DISPOSAL BEFORE COMMENCING WITH SILL INSTALLATION.	4 DAYS
6	DELIVER STONE AND GEOTEXTILE FABRIC (FILTER CLOTH) TO SITE. EXCAVATE AS NECESSARY, PLACE FILTER CLOTH AND BEGIN STONE CONTAINMENT SILLS CONSTRUCTION IN ACCORDANCE WITH PLANS & SPECIFICATIONS. CONTRACTOR SHALL CONSTRUCT A SAMPLE SECTION OF STONE SILL FOR MD–DNR AND PROJECT INSPECTOR REVIEW AND APPROVAL.	60–120 DAYS
7	DELIVER SAND FILL TO SITE AND PLACE SAND FILL. IF ALLOWED UNDER CONDITIONS OF TIDAL PERMIT #09–1008(R), CONTRACTOR MAY RESOURCE FERRY POINT DREDGE SAND SPOIL FOR LOCAL SAND FILL SOURCE UNDER CONDITIONS OF THIS PERMIT.	20 DAYS
8.	AFTER ALLOWING A 1–2 WEEK SETTLING PERIOD, REPLENISH SAND FILL AREAS (MINIMUM 10% REPLENISHMENT) PRIOR TO FINAL GRADE ACCEPTANCE AND PRIOR TO ANY MARSH GRASS PLANTINGS.	10 DAYS
9	UPON ACCEPTANCE OF FINAL GRADES BY OWNER OR OWNER'S REPRESENTATIVE REMOVE ANY CONSTRUCTION MEASURES, REPLACE ANY REMOVED PIER SECTIONS, STABILIZE ALL DISTURBED AREAS OUTSIDE OF THE MARSH CREATION AND PERMANENTLY STABILIZE WITH SOIL STABILIZATION MATTING AND SEED AS NECESSARY.	4 DAYS
10.	PLANT MARSH GRASSES. COORDINATE WITH NPCUO FOR LOCAL COMMUNITY OUTREACH AND INVOLVEMENT OF THE MARSH GRASS PLANTINGS.	5 DAYS
11	INSTALL GOOSE PROTECTION FENCING FOR RESPECTIVE SILL INSTALLATION. ENSURE A LANDWARD ACCESS IS PROVIDED TO ALLOW FOR NPCUO MAINTENANCE OF THE MARSH PLANTINGS FOR EACH PHASE AREA	5 DAYS
12.	REMOVE ANY REMAINING CONSTRUCTION DEBRIS.	2 DAYS
13.	UPON STABILIZATION OF SITE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, FINAL STABILIZE ALL REMAINING DISTURBED AREAS.	1 DAY
14.	CONDUCT A POST CONSTRUCTION MEETING FOR A PUNCHLIST ACCEPTANCE WITH ALL PARTIES LISTED UNDER ITEM #4 ABOVE	DAY

AMT
A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
800 KING FARM BOULEVARD
ROCKVILLE, MARYLAND 20850
301.881.2545 FAX: 301.881.0814
WWW.AMTENGINEERING.COM

REGISTRATION STAMP

OWNER
Narrows Pointe Council of Unit Owners
(NPCUO)
Narrows Pointe Drive
Grasonville, MD 21638-1287
410.991.2334

PROJECT TITLE
NARROWS POINTE
LIVING SHORELINE
SECD 06-10
Maryland Department Of Natural Resources
Shoreline Conservation Service

REVISIONS

MARK	DATE	DESCRIPTION

AMT FILE NO	113-245.001
DATE	DECEMBER 2013
SCALE	NA
DESIGNED BY	LDP/CJHF
DRAWN BY	LAL
CHECKED BY	SJR

SHEET TITLE

Sheet 1 of 9
Revised 9/18/2014

DEMOLITION LEGEND & NOTES

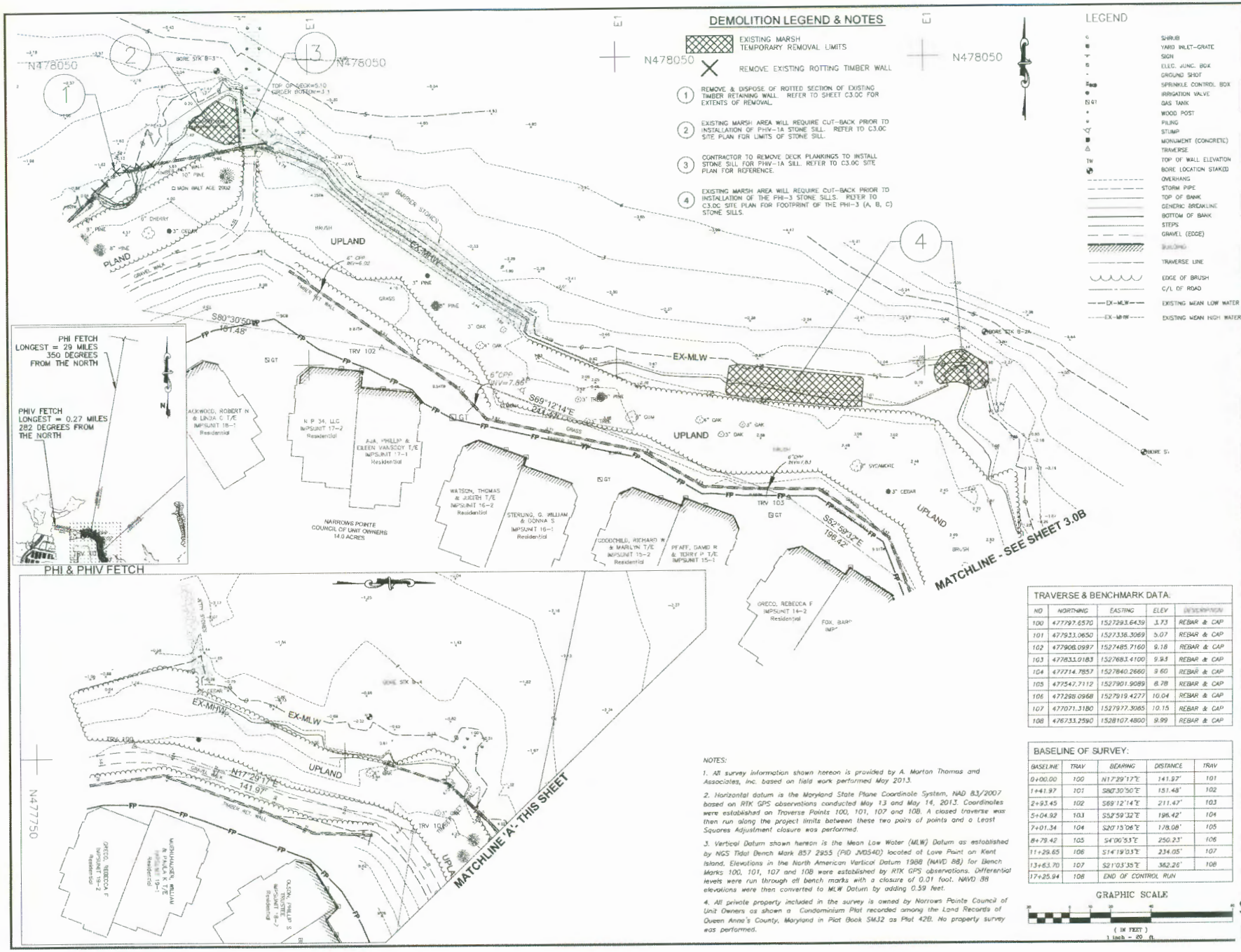
EXISTING MARSH TEMPORARY REMOVAL LIMITS

REMOVE EXISTING ROTTING TIMBER WALL

1. REMOVE & DISPOSE OF ROTTED SECTION OF EXISTING TIMBER RETAINING WALL. REFER TO SHEET C3.0C FOR EXTENTS OF REMOVAL.
2. EXISTING MARSH AREA WILL REQUIRE CUT-BACK PRIOR TO INSTALLATION OF PHIV-1A STONE SILL. REFER TO C3.0C SITE PLAN FOR LIMITS OF STONE SILL.
3. CONTRACTOR TO REMOVE DECK PLANKINGS TO INSTALL STONE SILL FOR PHIV-1A SILL. REFER TO C3.0C SITE PLAN FOR REFERENCE.
4. EXISTING MARSH AREA WILL REQUIRE CUT-BACK PRIOR TO INSTALLATION OF THE PHI-3 STONE SILLS. REFER TO C3.0C SITE PLAN FOR FOOTPRINT OF THE PHI-3 (A, B, C) STONE SILLS.

LEGEND

- SHRUB
- YARD INLET-GRATE
- SIGN
- ELEC. JUNC. BOX
- GROUND SHOT
- SPRINKLE CONTROL BOX
- IRRIGATION VALVE
- GAS TANK
- WOOD POST
- PILING
- STUMP
- MONUMENT (CONCRETE)
- TRAVERSE
- TW TOP OF WALL ELEVATION
- BORE LOCATION STAKED
- OVERHANG
- STORM PIPE
- TOP OF BANK
- GENERIC BREAKLINE
- BOTTOM OF BANK
- STEPS
- GRAVEL (EDGE)
- BUILDING
- TRAVERSE LINE
- EDGE OF BRUSH
- C/L OF ROAD
- EX-MLW EXISTING MEAN LOW WATER
- EX-MHW EXISTING MEAN HIGH WATER



TRAVERSE & BENCHMARK DATA:

NO	NORTHING	EASTING	ELEV	DESCRIPTION
100	477797.6570	1527293.6439	3.73	REBAR & CAP
101	477933.0650	1527338.3069	5.07	REBAR & CAP
102	477908.0997	1527485.7160	9.18	REBAR & CAP
103	477833.0183	1527683.4100	9.93	REBAR & CAP
104	477714.7857	1527840.2660	9.60	REBAR & CAP
105	477547.7112	1527901.9089	8.78	REBAR & CAP
106	477295.0968	1527919.4277	10.04	REBAR & CAP
107	477071.3180	1527977.3065	10.15	REBAR & CAP
108	476733.2590	1528107.4800	9.99	REBAR & CAP

BASELINE OF SURVEY:

BASELINE	TRAV	BEARING	DISTANCE	TRAV
0+00.00	100	N17°29'17"E	141.97'	101
1+41.97	101	S80°30'50"E	151.48'	102
2+93.45	102	S69°12'14"E	211.47'	103
5+04.92	103	S52°59'32"E	196.42'	104
7+01.34	104	S20°15'06"E	178.08'	105
8+79.42	105	S4°00'53"E	250.23'	106
11+29.65	106	S14°19'03"E	234.05'	107
13+63.70	107	S21°03'35"E	342.26'	108
17+25.94	108	END OF CONTROL RUN		

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

NOTES:

1. *All survey information shown hereon is provided by A. Morton Thomas and Associates, Inc. based on field work performed May 2013.*
2. *Horizontal datum is the Maryland State Plane Coordinate System, NAD 83/2007 based on RTK GPS observations conducted May 13 and May 14, 2013. Coordinates were established on Traverse Points 100, 101, 107 and 108. A closed traverse was then run along the project limits between these two pairs of points and a Least Squares Adjustment closure was performed.*
3. *Vertical Datum shown hereon is the Mean Low Water (MLW) Datum as established by NGS Tidal Bench Mark 857 2955 (PID JV0540) located at Love Point on Kent Island. Elevations in the North American Vertical Datum 1988 (NAVD 88) for Bench Marks 100, 101, 107 and 108 were established by RTK GPS observations. Differential levels were run through all bench marks with a closure of 0.01 foot. NAVD 88 elevations were then converted to MLW Datum by adding 0.59 feet.*
4. *All private property included in the survey is owned by Narrows Pointe Council of Unit Owners as shown a Condominium Plat recorded among the Land Records of Queen Anne's County, Maryland in Plat Book SM32 as Plat 428. No property survey was performed.*

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410.991.2334

PROJECT TITLE

NARROWS POINTE LIVING SHORELINE

SECO 06-10

Maryland Department Of Natural Resources
Shoreline Conservation Service

REVISIONS

MARK	DATE	DESCRIPTION

AMT FILE NO	113-245.001
DATE	DECEMBER 2013
SCALE	1"=20'
DESIGNED BY	LT/PCZ/JJF
DRAWN BY	LAL
CHECKED BY	SJR

SHEET TITLE

EXISTING CONDITIONS AND DEMO PLAN III

SHEET

Sheet 2 of 9
Revised 9/18/2014

SITE TABULATION(S)

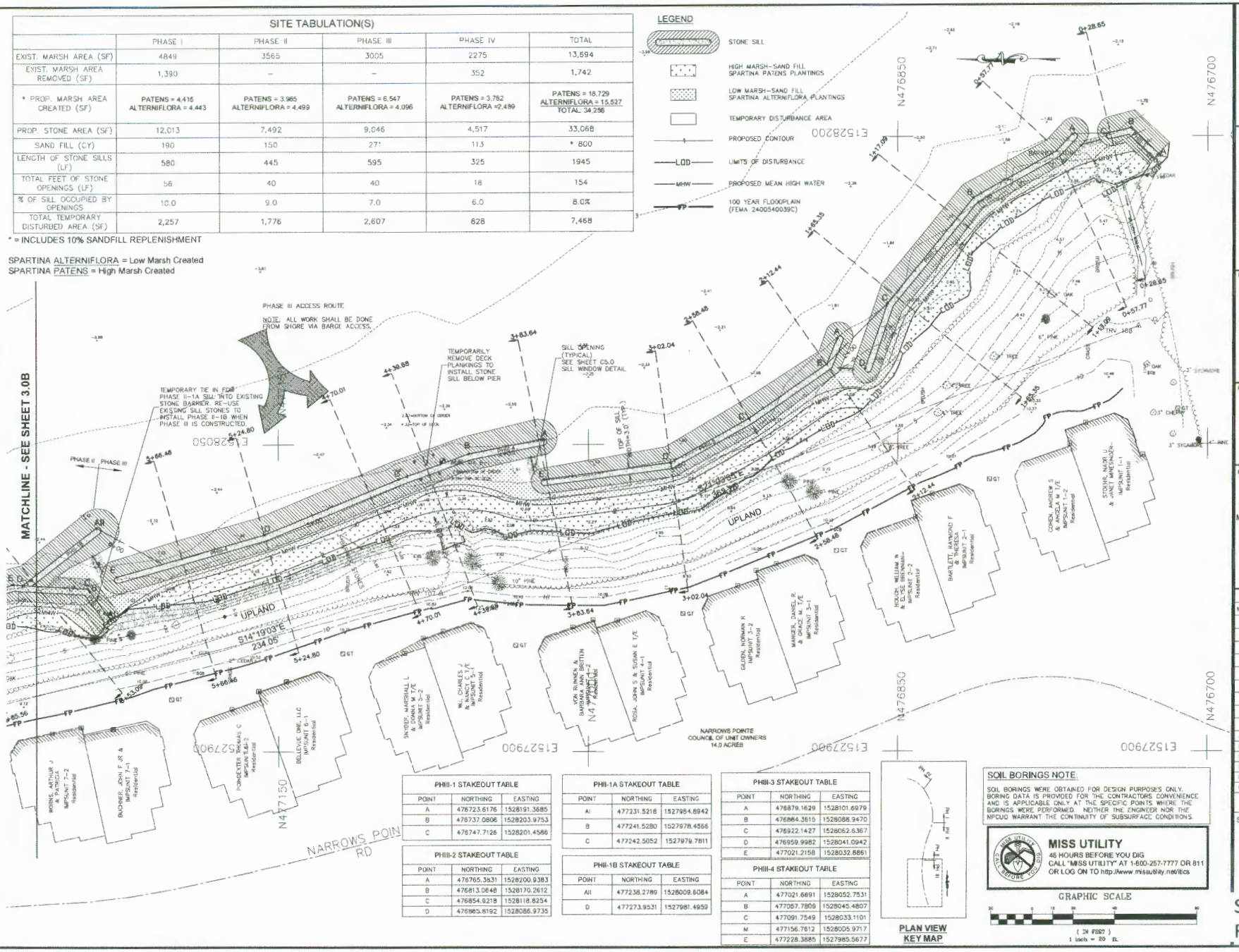
	PHASE I	PHASE II	PHASE III	PHASE IV	TOTAL
EXIST. MARSH AREA (SF)	4849	3565	3005	2275	13,694
EXIST. MARSH AREA REMOVED (SF)	1,390	–	–	352	1,742
* PROP. MARSH AREA CREATED (SF)	PATENS = 4,415 ALTERNIFLORA = 4,443	PATENS = 3,965 ALTERNIFLORA = 4,499	PATENS = 6,547 ALTERNIFLORA = 4,096	PATENS = 3,782 ALTERNIFLORA =2,489	PATENS = 18,729 ALTERNIFLORA = 15,527 TOTAL: 34,256
PROP. STONE AREA (SF)	12,013	7,492	9,046	4,517	33,068
SAND FILL (CY)	190	150	271	113	* 800
LENGTH OF STONE SILLS (LF)	580	445	595	325	1945
TOTAL FEET OF STONE OPENINGS (LF)	56	40	40	18	154
% OF SILL OCCUPIED BY OPENINGS	10.0	9.0	7.0	6.0	8.0%
TOTAL TEMPORARY DISTURBED AREA (SF)	2,257	1,776	2,607	828	7,468

* = INCLUDES 10% SANDFILL REPLENISHMENT

SPARTINA ALTERNIFLORA = Low Marsh Created
SPARTINA PATENS = High Marsh Created

LEGEND

- STONE SILL
- HIGH MARSH–SAND FILL SPARTINA PATENS PLANTINGS
- LOW MARSH–SAND FILL SPARTINA ALTERNIFLORA PLANTINGS
- TEMPORARY DISTURBANCE AREA
- PROPOSED CONTOUR
- LOD — LIMITS OF DISTURBANCE
- MHW — PROPOSED MEAN HIGH WATER
- FP — 100 YEAR FLOODPLAIN (FEMA 2400540039C)



PHIII-1 STAKEOUT TABLE

POINT	NORTHING	EASTING
A	476723.6176	1528191.3685
B	476737.0806	1528203.9753
C	476747.7126	1528201.4566

PHIII-2 STAKEOUT TABLE

POINT	NORTHING	EASTING
A	476765.3831	1528200.9383
B	476813.0848	1528170.2612
C	476854.9218	1528118.8254
D	476865.8192	1528086.9735

PHII-1A STAKEOUT TABLE

POINT	NORTHING	EASTING
AI	477231.5218	1527984.8942
B	477241.5280	1527978.4566
C	477242.5052	1527979.7811

PHII-1B STAKEOUT TABLE

POINT	NORTHING	EASTING
AII	477238.2789	1528009.6084
D	477273.9531	1527981.4959

PHIII-3 STAKEOUT TABLE

POINT	NORTHING	EASTING
A	476879.1629	1528101.6979
B	476884.3615	1528088.9470
C	476922.1427	1528062.6367
D	476959.9982	1528041.0942
E	477021.2158	1528032.6861

PHIII-4 STAKEOUT TABLE

POINT	NORTHING	EASTING
A	477021.6691	1528052.7531
B	477057.7809	1528045.4807
C	477091.7549	1528033.1101
M	477156.7612	1528005.9717
E	477228.3885	1527985.5677

PLAN VIEW
KEY MAP

SOIL BORINGS NOTE:

SOIL BORINGS WERE OBTAINED FOR DESIGN PURPOSES ONLY. BORING DATA IS PROVIDED FOR THE CONTRACTORS CONVENIENCE AND IS APPLICABLE ONLY AT THE SPECIFIC POINTS WHERE THE BORINGS WERE PERFORMED. NEITHER THE ENGINEER NOR THE NPCUO WARRANT THE CONTINUITY OF SUBSURFACE CONDITIONS.

MISS UTILITY
46 HOURS BEFORE YOU DIG
CALL "MISS UTILITY" AT 1-800-257-7777 OR 811
OR LOG ON TO http://www.missutility.net/itcs

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

AMT
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REGISTRATION STAMP

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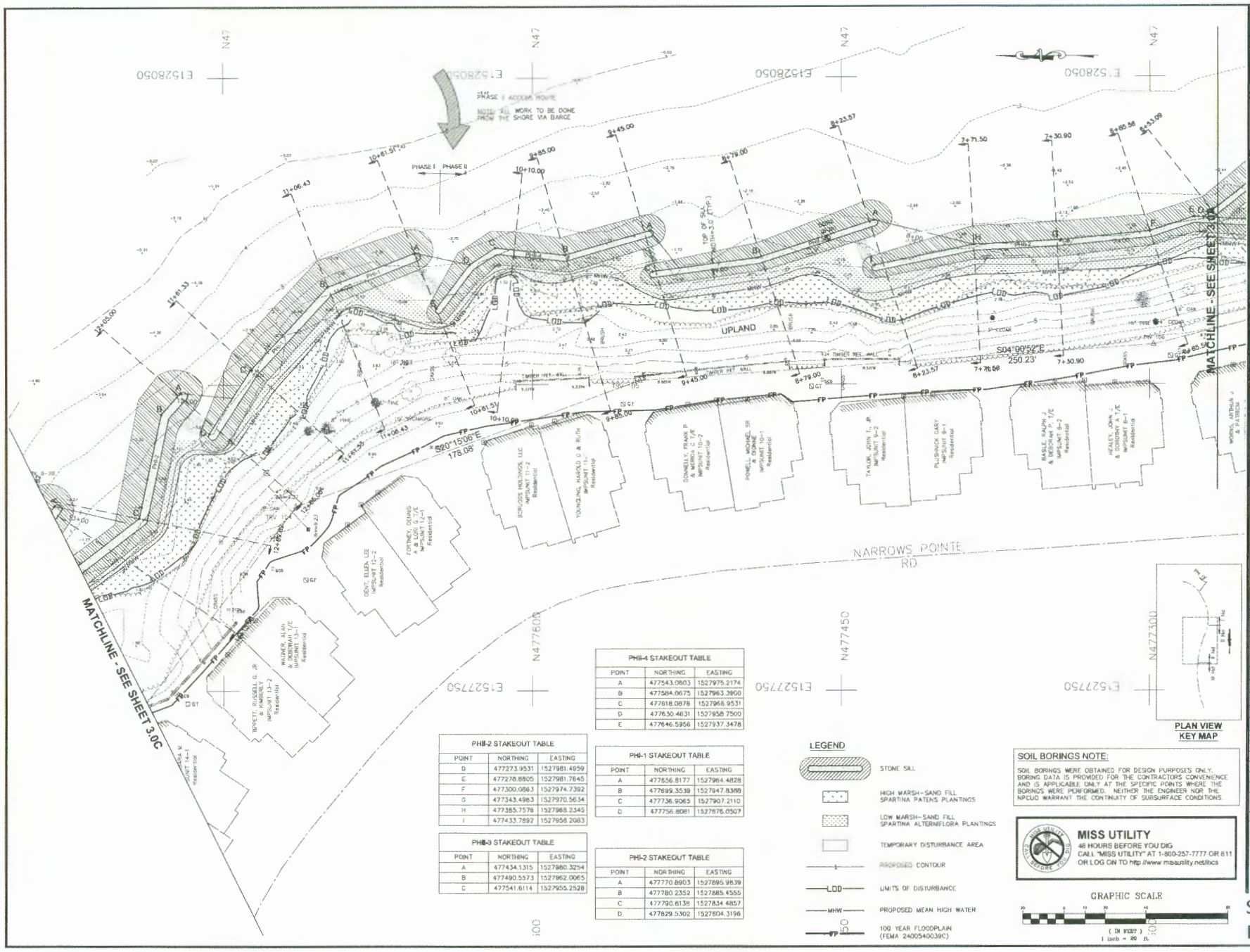
DESIGNED BY	LTP/CZ/JJF
DRAWN BY	LAL
CHECKED BY	SJR

SHEET TITLE
SITE PLAN
I

Sheet 3 of 9
Revised 9/18/2014



PHII-4 STAKEOUT TABLE		
POINT	NORTHING	EASTING
A	477543.0803	1527975.2174
B	477584.0675	1527963.3900
C	477618.0878	1527966.9531
D	477630.4631	1527958.7500
E	477646.5956	1527937.3478

PHII-2 STAKEOUT TABLE		
POINT	NORTHING	EASTING
D	477273.9531	1527981.4959
E	477278.8805	1527981.7645
F	477300.0863	1527974.7392
G	477343.4983	1527970.5634
H	477385.7578	1527968.2345
I	477433.7892	1527958.2083

PHI-1 STAKEOUT TABLE		
POINT	NORTHING	EASTING
A	477636.8177	1527964.4828
B	477699.3539	1527947.8388
C	477736.9065	1527907.2110
D	477756.8081	1527876.0507

PHII-3 STAKEOUT TABLE		
POINT	NORTHING	EASTING
A	477434.1315	1527980.3254
B	477490.5573	1527962.0065
C	477541.6114	1527955.2528

PHI-2 STAKEOUT TABLE		
POINT	NORTHING	EASTING
A	477770.8903	1527895.9839
B	477780.2352	1527885.4555
C	477790.8138	1527834.4857
D	477829.5302	1527804.3196

LEGEND

- STONE SILL
- HIGH MARSH-SAND FILL SPARTINA PATENS PLANTINGS
- LOW MARSH-SAND FILL SPARTINA ALTERNIFLORA PLANTINGS
- TEMPORARY DISTURBANCE AREA
- PROPOSED CONTOUR
- LOD — LIMITS OF DISTURBANCE
- MHW — PROPOSED MEAN HIGH WATER
- FP — 100 YEAR FLOODPLAIN (FEMA 2400540039C)

SOIL BORINGS NOTE:

SOIL BORINGS WERE OBTAINED FOR DESIGN PURPOSES ONLY. BORING DATA IS PROVIDED FOR THE CONTRACTORS CONVENIENCE AND IS APPLICABLE ONLY AT THE SPECIFIC POINTS WHERE THE BORINGS WERE PERFORMED. NEITHER THE ENGINEER NOR THE NPCUO WARRANT THE CONTINUITY OF SUBSURFACE CONDITIONS.

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GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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800 KING FARM BOULEVARD
ROCKVILLE, MARYLAND 20850
301.881.2545 FAX: 301.881.0814
WWW.AMTENGINEERING.COM

REGISTRATION STAMP

OWNER
Narrows Pointe Council of Unit Owners (NPCUO)
Narrows Pointe Drive
Grasonville, MD 21638-1287
410.991.2334

PROJECT TITLE
NARROWS POINTE LIVING SHORELINE
SECD 06-10
Maryland Department Of Natural Resources
Shoreline Conservation Service

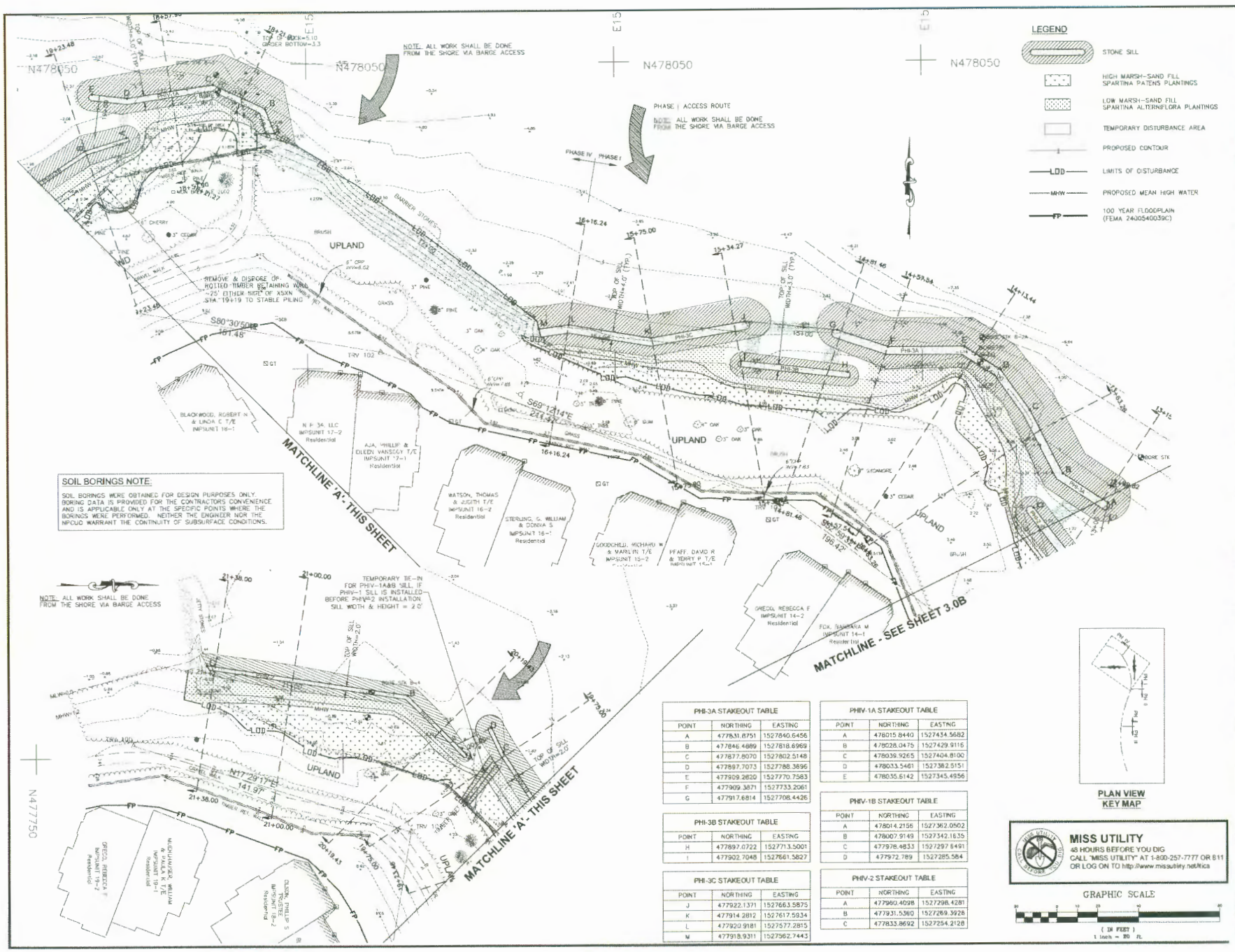
REVISIONS

MARK	DATE	DESCRIPTION

AMT FILE NO	113-245.001
DATE	DECEMBER 2013
SCALE	1"=20'
DESIGNED BY	LT/PCZ/JF
DRAWN BY	LAL
CHECKED BY	SJR

SHEET TITLE
SITE PLAN II

Sheet 4 of 9
Revised 9/18/2014



PHII-3A STAKEOUT TABLE		
POINT	NORTHING	EASTING
A	477831.8751	1527840.6456
B	477846.4889	1527818.6969
C	477877.8070	1527802.5148
D	477897.7073	1527788.3896
E	477909.2820	1527770.7583
F	477909.3871	1527733.2061
G	477917.6814	1527708.4426

PHII-3B STAKEOUT TABLE		
POINT	NORTHING	EASTING
H	477897.0722	1527713.5001
I	477902.7048	1527661.5827

PHII-3C STAKEOUT TABLE		
POINT	NORTHING	EASTING
J	477922.1371	1527663.5875
K	477914.2812	1527617.5934
L	477920.9181	1527577.2815
M	477918.9311	1527562.7443

PHIV-1A STAKEOUT TABLE		
POINT	NORTHING	EASTING
A	478015.8440	1527434.5682
B	478028.0475	1527429.9116
C	478039.9265	1527404.8100
D	478033.5461	1527382.5151
E	478035.6142	1527345.4956

PHIV-1B STAKEOUT TABLE		
POINT	NORTHING	EASTING
A	478014.2156	1527362.0502
B	478007.9149	1527342.1635
C	477978.4833	1527297.6491
D	477972.789	1527285.584

PHIV-2 STAKEOUT TABLE		
POINT	NORTHING	EASTING
A	477960.4098	1527298.4281
B	477931.5360	1527269.3928
C	477833.8692	1527254.2128

PLAN VIEW KEY MAP

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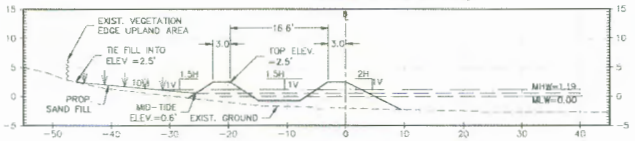
DRAWN BY	LAL
CHECKED BY	SJR

SHEET TITLE
SITE PLAN III

Sheet 5 of 9
Revised 9/18/2014

3+83.64 (PHASE III)



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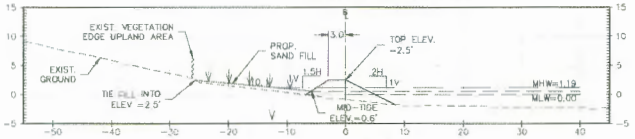

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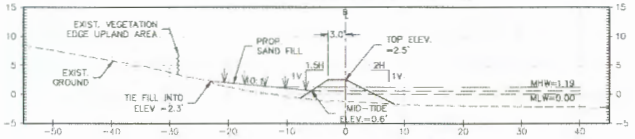

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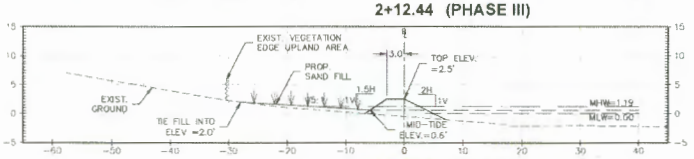

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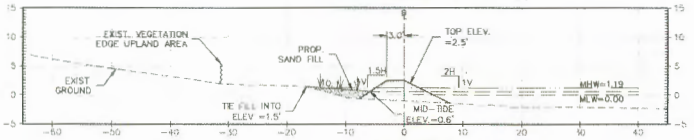

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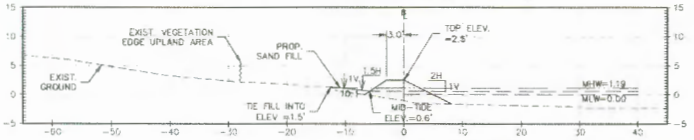

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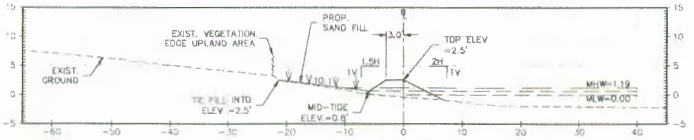

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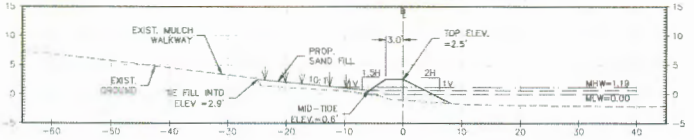

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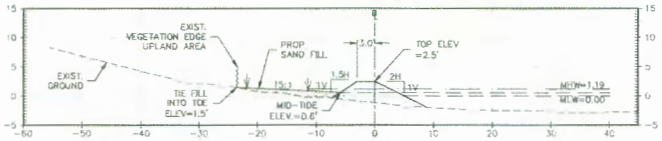

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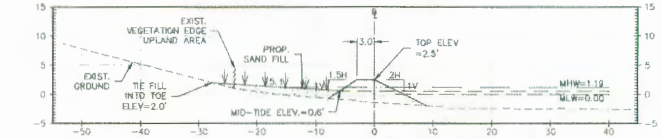

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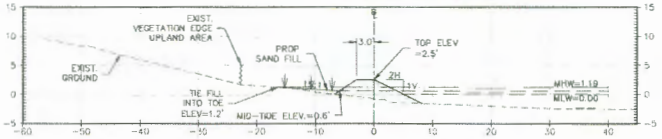

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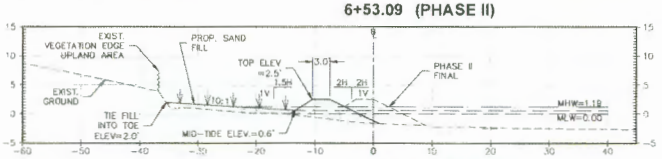

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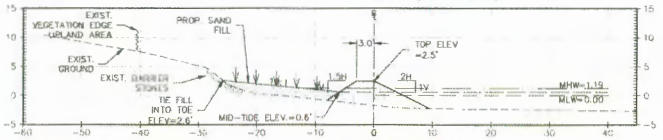

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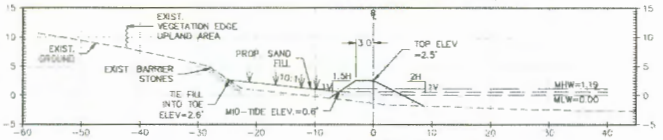

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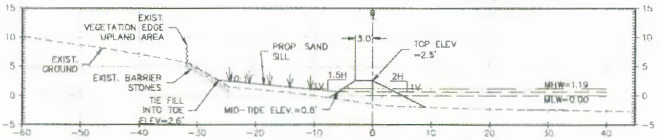

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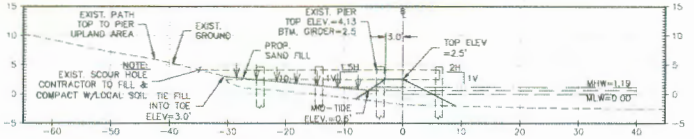

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REGISTRATION STAMP

OWNER

Narrows Pointe Council of Unit Owners (NPCUO)
Narrows Pointe Drive
Grasonville, MD 21638-1287
410.991.2334

PROJECT TITLE

NARROWS POINTE LIVING SHORELINE

SECD 06-10
Maryland Department Of Natural Resources
Shoreline Conservation Service

REVISIONS

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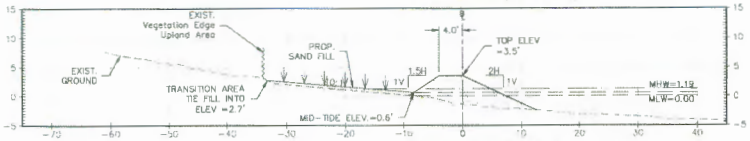
AMT FILE NO	113.245.001
DATE	DECEMBER 2013
SCALE	H. 1"=10'/V: 1"=10'
DESIGNED BY	LT/PC/JJF
DRAWN BY	LAL
CHECKED BY	SJR

SHEET TITLE

CROSS SECTIONS I

Sheet 6 of 9
Revised 9/18/2014

11+61.33 (PHASE I)



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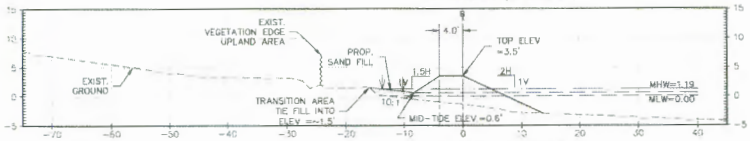

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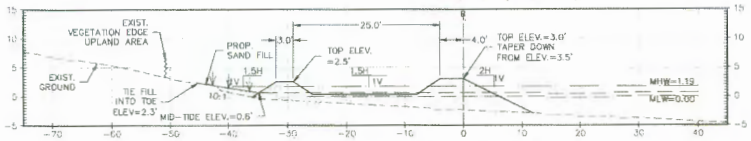

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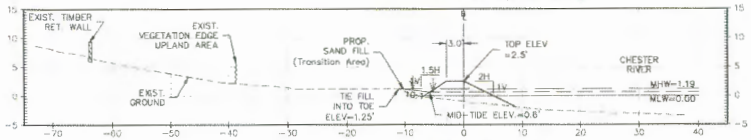

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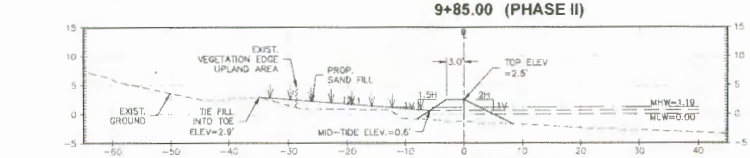

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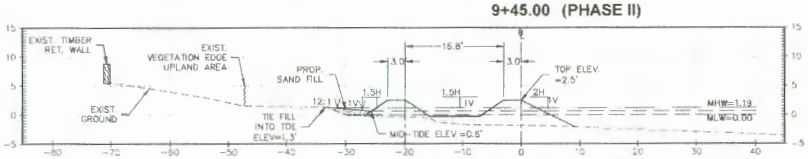

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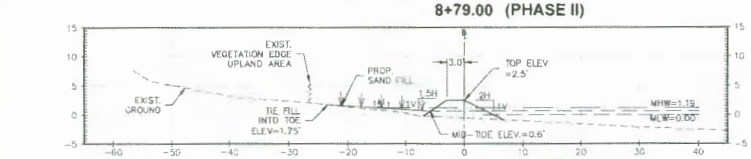

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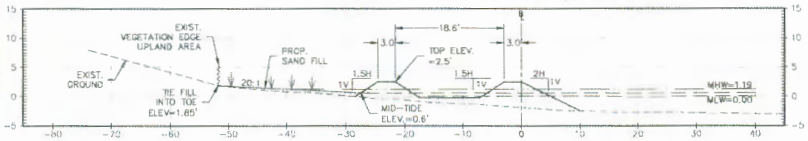

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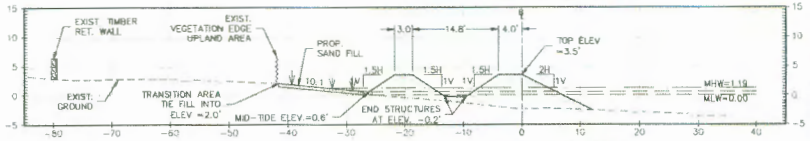

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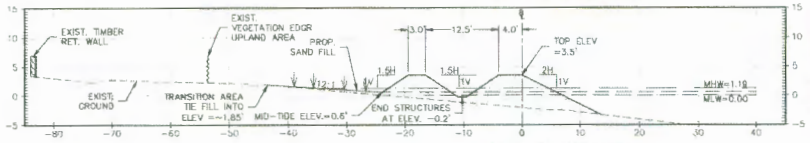

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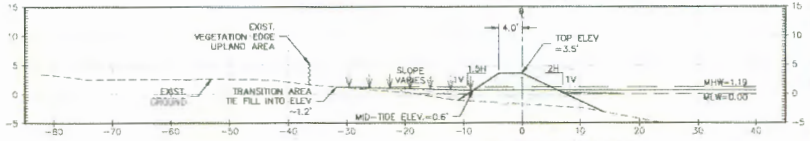

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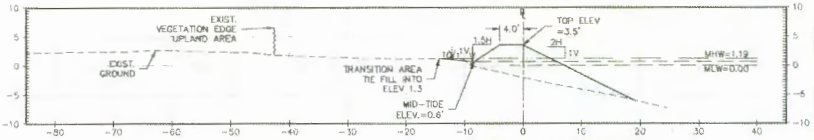

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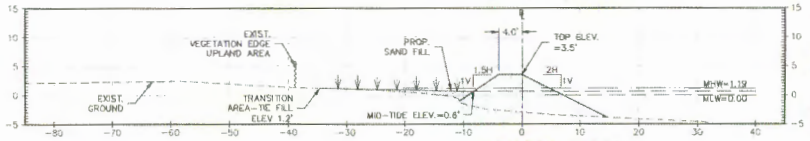

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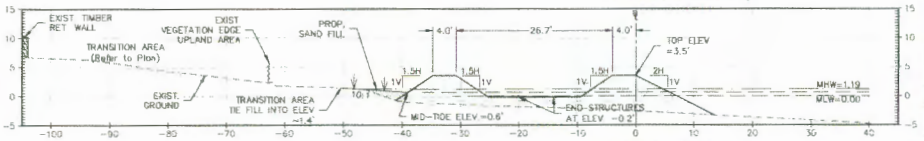

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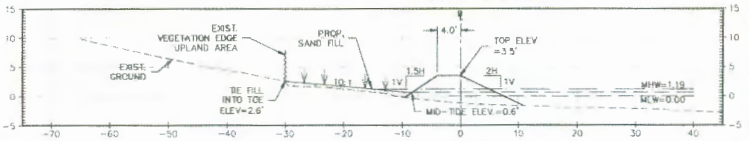
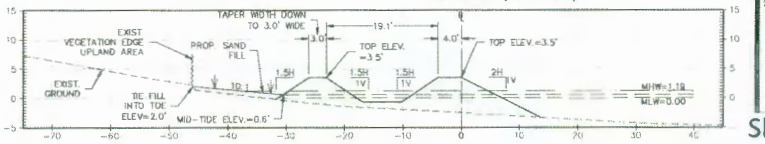


12+05.00 (PHASE I)



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PROJECT TITLE

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SECD 06-10

Maryland Department Of Natural Resources
Shoreline Conservation Service

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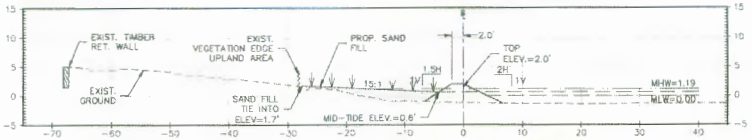
CHECKED BY	SJR

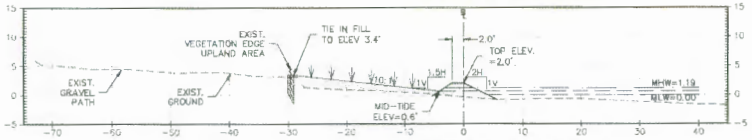
SHEET TITLE

CROSS SECTIONS II

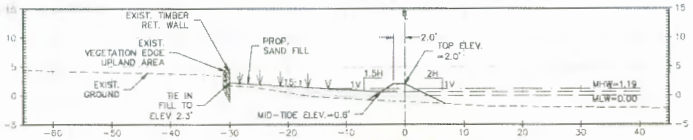
21+00.00 (PHASE IV)



20+19.43 (PHASE IV)



19+75.00 (PHASE IV)



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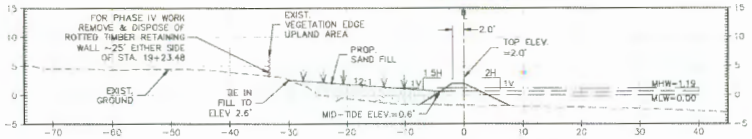

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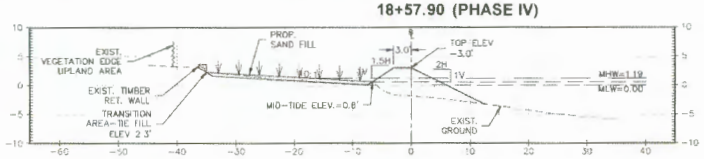

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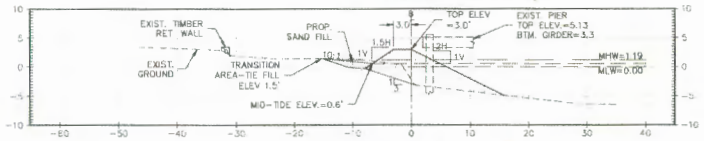

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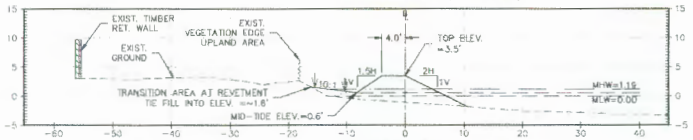
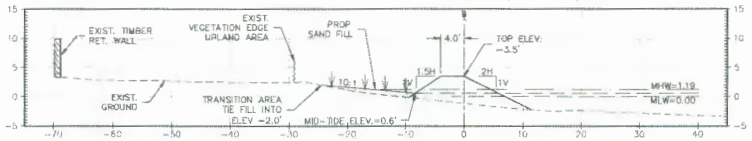
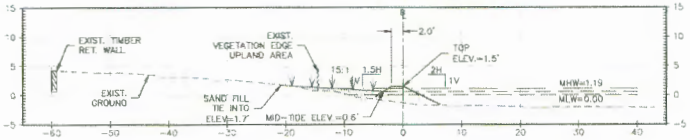


15+75.00 (PHASE I)



21+38.00 (PHASE IV)



PHASE	Sill Top Elevation	Sill Top Width	Armor Stone	Chink Stones
	(ft) *	(ft)	(lbs)	(lbs)
I	+3.5' *	4'	400-1200	150-300
II & III	+2.5' *	3'	400-1200	150-300
IV-1A	+3.0' *	3'	400-1200	150-300
IV-1B IV-2	+2.0' *	2'	300-900	100-150

* Settled Top Elevation

Armor Stones placed and roughly chinked. Chinking shall be carried out after placement of armor stone is completed and only to fill the surface voids smaller than armor stone size.

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

AMT

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REGISTRATION STAMP

OWNER

Narrows Pointe Council of Unit Owners (NPCUO)
Narrows Pointe Drive
Grasonville, MD 21638-1267
410.991.2334

PROJECT TITLE

NARROWS POINTE LIVING SHORELINE

SECD 06-10

Maryland Department Of Natural Resources
Shoreline Conservation Service

REVISIONS

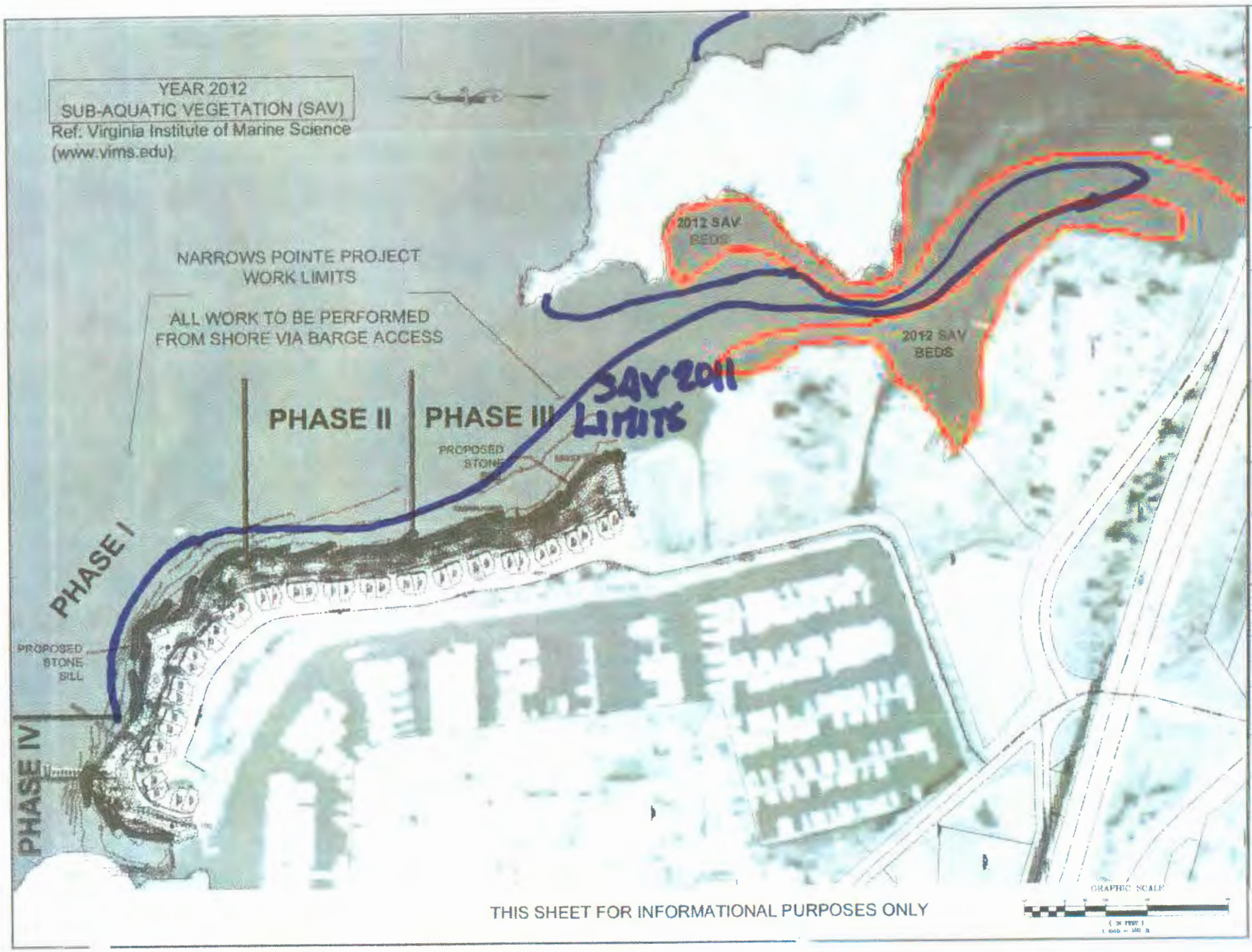
MARK	DATE	DESCRIPTION

AMT FILE NO.	113-245.001
DATE	DECEMBER 2013
SCALE	H. 1"=10'/V: 1"=10'
DESIGNED BY	LTP/CZ/JF
DRAWN BY	LAL
CHECKED BY	SJR

SHEET TITLE

CROSS SECTIONS III

Revised 9/18/2014



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NARROWS POINTE
LIVING SHORELINE

REVISIONS

MARK	DATE	DESCRIPTION

SHEET TITLE
EXISTING CONDITIONS
2012 SAV

Sheet 9 of 9
Revised 9/18/2014