

New Jersey Department of Environmental Protection Hurricane Sandy Community Development Block Grant Form – 1 : No Historic Properties Affected (Version 1.0)



Application ID 4	N(CD 20000			
Application 1D #	Application 1D # NCR39808			
Applicant Name:	plicant Name: City of Brigantine act Address: Desch between 10th Street South and Vernen Blace			
Street Address:	Beach between 10th Street South an	d Vernon Place		
PAMS DIN.		County:	Atlantic	
PAMS PIN:	<u>0103_101.01_1</u> 30_404057° (Approx_conter)	Longitudor	Additional Lots: None	
Latitude:	39.404037 (Approx. center)	Longitude:	-74.303339 (Approx. center - see map for corners)	
Undertaking:	Undertaking consists of <u>replacement and enhanc</u> and seasonal installation of ADA-compliant <u>mobi</u> Brigantine. The area of potential effects with res	ement of existing of ility mats on the best spect to ground dist	dune crossovers, including <u>drainage improvements</u> in one adjoining street each, along a 10-block section of the Atlantic Ocean beach in the City of turbance is approximately 1.22 acres. See continuation pages for details.	
Property Description:	Brigantine. The area of potential effects with respect to ground disturbance is approximately 1.22 acres. See continuation pages for details. roperty escription: Architecture: Project is located in city land and right-of-way primarily on dune and beach lands adjoining an extensive Green Zone. The existing paths at 7 th St. S through 4 th St. S, 2 ^{ed} St. S, and Vernon Pl. have timber-surface dune crossovers approximately 3.5 ft wide, with wood railings. Review of aerial images indicates the crossover structures were constructed between 1981 and 1995. The remaining four crossovers do not have structures. The APE for the drainage improvements in 4 th St. S is in a macadam-paved street. Small wood-frame utility buildings are located at the beach ends of the 8 th St. S and 4 th St. S crossovers. The buildings are similar in design, with composition shingle roofs and vertical siding. Each stands on a low timber platform at the edge of the dunes. Review of Google Earth aerial imagery shows both buildings were originally constructed between 1995 and 2002. The 8 th St. building survived Hurricane Sandy, but that at 4 th St. was washed away, with only the platform surviving the storm. The latter building was reconstructed after 2/24/2013. These is the only buildings in the APE. Archeology: The project occupies portions of city-owned dunelands designated as Block 101.01 Lot 1, public beach, and municipal street right-of-way on Brigantine Beach, a barrier island. As indicated in the discussion of the Undertaking, the APE for ground disturbances is estimated to be approximately 1.22 acres. The study area is not situated in an HPO archeological sensitivity grid square. Review of historical aerial imagery beginning in 1920 suggests that there was substantial loss of dunelands and shoreline retreat in the project study area between 1920 and 1970. Dune restoration apparently began in the 1970s, so the present terrain appears to have been est			
There are no histo following reason(s	pric properties affected within the projection (); [Check All That Apply]	ect's area of po	otential effects, pursuant to 36 CFR 800.4(d)(1) for the	
Historic Architecture *4 th St. South drainage improvement area only other parts of the APE outside but adjacent to mapped Green Zone. **[fility buildings.	 Located in "Green Zone"* (Areas de Xone Xone Xone Xone Xone Xone Xone Xon	termined by FEMA Register of Histo on)*** ristics That Make	A/HPO to have low potential for above-ground historic properties) oric Places Listed / Eligible Historic District e It Individually Eligible for Listing on NRHP	
***Dune crossovers, et	c.			
Archaeology:	∠ Low Archaeological Potential: ∠ Located on Barrier Islan Substantially Conforms ∠ Located on Disturbed So Not Located within 500 Not Located an Well der	d to the Original Fo bils Feet of Waterwa	Sootprint ays and/or Wetlands	
	Not Identified Within a	Historic Property	y / Historic District	
Public Consultation Federally Recognized Tribes, Certified Local Governments, Historic Preservation Commissions, etc: None to date (10/26/2014). *Property contains no known NHLs; NRHP-listed/-eligible properties; identified or potential large pre-contact Native American site, or graves, burials, or cemeteries. It is not known to be located in a CLG or other locality in which active government management of historic resources is taking place and does not involve "extensive" ground disturbance in the sense of PA Appendix D.				
	HISTORIC PRESE	RVATION OF	FFICE USE ONLY	
I concur with t	his finding,	anality of		
□ I do not concur with this finding for the following reason(s):				
			and the second	
		÷ .		
Daniel D. Saunders Deputy State Historic Preservation Officer Deputy State Historic Preservation Officer				
Architecture Reviewer J.C. Sexton, Tetra Tech Archaeology Reviewer C.L. Borstel, Tetra Tech Date Reviewed 10/26/2014				
Requir V1.0 9/26/13 (TT 8/18	red Documentation: I Historic Propertie	s Map 🗵 Soils ge 1 of 3	s Map 🖾 USGS Quad 🖾 Property Photos	



New Jersey Department of Environmental Protection Hurricane Sandy Community Development Block Grant Form – 1 : No Historic Properties Affected (Version 1.0)



Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ

Continuation pages

Undertaking:

The City of Brigantine Beach proposes to upgrade 10 dune crossovers at the Atlantic Ocean beach to improve public access and strengthen the foredune system against storm damage. The Undertaking consists of replacement and enhancement of existing dune crossovers along a 10-block section between 10th Street South (at the south end) and Vernon Place (at the north end). Existing 3- to 4-foot-wide timber crossovers, where present (see Table 1), will be removed and replaced with dense graded aggregate (DGA) paths 10 feet wide, flanked by post-and-rail fences that are intended to protect adjoining dune areas from foot traffic. Existing path alignments

Location	Existing Path		Proposed Path		
	Length (ft.) ¹	Timbered? ²	Length (ft.) ³	Mobility Mat (ft.) ³	
10th St.	112	No	180	100	
9th St.	81	No	130	100	
8th St.	170	No	220	100	
7th St.	302	Yes	350	100	
6th St.	315	Yes	380	100	
5th St.	270	Yes	300	100	
4th St.	307	Yes	400	100	
3rd St.	274	No	360	100	
2nd St.	257	Yes	330	100	
Vernon PI.	256	Yes	310	100	
Total	2,344		2,960	1,000	

Sources:

¹Brigantine City conceptual plans.

²Tetra Tech field Inspection on 10/14/2014.

³Tetra Tech measurement of Brigantine City conceptual plans imported as overlays into Google Earth.

and grades will be modified for improved barrier-free access and greater storm resilience. Paths currently tend to follow a direct line from the street end to the beach. The new paths will include offsets to reduce their tendency to serve as channels for storm surges and to meet ADA standards. The project includes funding to acquire 2000 linear feet of 5-foot-wide plastic mobility mat (such as Mobi-Mat® RecPathTM or equivalent), a portable and removable rollout access pathway for pedestrians, wheelchair users, strollers, and other light vehicles. The mobility mats will extend across the beach toward the surf line from the ends of the crossover paths. They will be installed each summer season with pins driven into the beach sand. During the off-season, the mats will be removed and stored off-site. The final component of the project is the installation of 340 linear feet of 24-inch perforated pipe in 4th Street South and inlets to improve local stormwater drainage. This project element will be located in 4th Street South approximately between West Brigantine Avenue and the street end of the 4th Street South crossover path.

According to Mr. James Rutala, PP, AICP, of Rutala Associates, Linwood, who is serving as the Owner's Representative for this project, most dune crossover path construction will take place within the planned 10-foot alignment, except where grade changes require work outside the planned alignment (Rutala-Tetra Tech Project Kick-off Telephone Call on 10/14/2014). Information about the planned subgrade characteristics of the paths and specific locations where excavation or filling may take place outside the 10-foot

Architecture Reviewer	J.C. Sexton, Tetra Tech	Archaeology Reviewer	C.L. Borstel, Tetra Tech
Date Reviewed	10/26/2014		

APPENDIX 2

NJDEP Environmental and Historic Review Application for EDA and DCA/NEP Programs

- 1. Agency Name: New Jersey Economic Development Authority
- 2. Date of Application Submittal to DEP: September 11, 2014
- 3. CDBG-DR Program: NCR D & I
- 4. Application ID Number: NCR39808
- 5. National Objective Description/Number: LMI
- 6. Grant Number: <u>B-13-DS-34-0001</u>
- 7. Applicant Name:______City of Brigantine_____
- 8. Project Location: __Beach between 10th Street South and Vernon Place, Brigantine, NJ 08203 __Atlantic _____ (County) ______ (Block) ______ (Lot) (A separate form with a unique Application ID number is required for each geographic location.)

9. Detailed Project Description.

1. Contact Information

Property Owner:

Jennifer Blumenthal City of Brigantine 1417 Brigantine Boulevard Brigantine, NJ 08203 609.266.7600 Ext.212

Project Representative:

James M. Rutala Rutala Associates 717 River Drive Linwood, NJ 08221 609.743.0354 Jmrutala@comcast.net

2. Project Description

Brigantine City is a barrier island community located just north of Absecon Island which includes four communities: Longport, Margate, Ventnor and Atlantic City. The City has seen its ratable base reduced since Superstorm Sandy and many homes and infrastructure has been damaged. Over 1,100 homeowners in the City of Brigantine have provided the City with Letters of Interest to elevate their homes. In addition, the City well over 200 repetitive loss properties. Both Businesses and homes were damaged by Superstorm Sandy.

This NJEDA grant project is a Recreation, Cultural and Park Land Amenities Project in a US Census designated Low and Moderate Income Neighborhood. The project includes dune path restoration to include ten walkways from Vernon Place to 10th Street South inclusive. The scope will include the installation of gravel and split rail fencing to delineate the path and protect the dune system. This work will provide easier ADA accessible paths for the general public as well as fortify the dune system for greater protection from coastal storms. In addition, drainage improvements will be completed at 4th Street South and the beach. The scope includes the installation of perforated pipe and inlets. All work will be completed on City owned property and design work can be completed quickly by the City Engineer, hence this project can meet the June 31, 2015 deadline.

This NCR application meets the Priority Criteria since the planned improvements are located in or adjacent to Census Tract 101.02, Block 1; a low and moderate income neighborhood and it meets the National Objective of Low and Moderate Income Area Benefit.

This project will help the City of Brigantine by improving the recreational amenities and associated infrastructure in a low and moderate income neighborhood, potentially creating low and moderate income jobs to complete the identified improvements, and enhancing the "quality of life". The enhancements at the beachfront will provide for better access for all including handicapped individuals. The planned improvements will have a direct impact on the lives of those who live in this low and moderate income neighborhood as well as the entire community of Brigantine. Without these improvements, blight can occur in the neighborhood because of its susceptibility to flooding and the public beaches will be less assessable. As is the case whenever needed open space and associated infrastructure improvements occur, the neighborhood will be enhanced and these will be a better potential that the values of the properties and the resulting ratables will increase.

3. Project Budget

<u>Project Budget</u>			
Beach Paths	\$75,000@	10 paths	\$750,000
Associated drainage			<u>\$55,000</u>
Subtotal			\$805,000
Engineering & Construct	ction Manageme	ent (12%)	<u>\$96,600</u>
Total			\$901,600

All engineering and construction management will be completed at the City's expense either by the City Engineer as an in-kind service or by a consulting engineer.

TOTAL DOLLAR AMOUNT OF PROJECT COST (specific to this application):	\$901,600
TOTAL DOLLAR AMOUNT OF REQUESTED FUNDING (specific to this application):	\$805,000

Α.	
SOURCES	
(funding in hand, committed ar	nd expected)
FEMA	\$0.00
Other Govt. Sources (that	-
assisted damage repair)	\$0.00

USES	
Environmental	\$0.00
Site Preparation	\$0.00

Bank Financing Equity Other Sources (Describe)	\$0.00 \$0.00 \$0.00	Site Improvements (such as utilities installation) Construction Tenant Fit-Out Allowance	\$0.00 \$805,000.00 \$0.00
EDA Grant	\$805,000.00	Other (Describe)	\$0.00
City (In-kind services)	\$96,600.00	Soft Costs (architectural, engineering, legal, accounting, financing costs and fees, other fees, insurance, surveyor, appraisal, environmental services, planning/zoning consultant, Green Building consultant, construction management, etc.)	\$96,600.00
		Contingency	\$0.00
		Developer Fee	\$0.00
TOTAL PROJECT COST		TOTAL PROJECT COST (including	
(including damage)	\$901,600.00	damage)	\$901,600.00

4. Site Plan

The Site Plan is being prepared.

5. Previous Environmental Studies

NA

6. Miscellaneous

Attached

10. Change in Use.

Will the project result in a change in use for the land or structure? No

11. Change in Size or Capacity.

Will the project result in a change in size or capacity of any kind? No

12. Market Value (for multi-family rehabilitation projects only).

Will the proposed project for which funding is requested result in an increase in the market value of the property, facility, or installation? *No*

13. Attach **Right of Entry Form** signed by property owner.

Attached



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Application ID #	NCR39808				
Applicant Name:	City of Brigantine				
Street Address:	Beach between 10th Street South and	nd Vernon Place			
Municipality:	Brigantine	County:	Atlantic		
PAMS PIN:	0103_101.01_1		Additiona	al Lots: None	•
Latitude:	39.404057° (Approx. center)	Longitude:	-74.365359° (Appro	x. center – see m	hap for corners)
Undertaking:	Undertaking consists of <u>replacement and enhan</u> and seasonal installation of ADA-compliant <u>mol</u> Brigantine. The area of potential effects with re	cement of existing bility mats on the be espect to ground dis	<u>dune crossovers</u> , including <u>c</u> <u>each</u> , along a 10-block section turbance is approximately 1	Irainage improvement on of the Atlantic Oc .22 acres. See contin	nts in one adjoining street ean beach in the City of <i>uation pages for details</i> .
Property Description:	Architecture: Project is located in city land and right-of-way primarily on dune and beach lands adjoining an extensive Green Zone. The existing paths at 7 th St. S through 4 th St. S, 2 nd St. S, and Vernon Pl. have timber-surface dune crossovers approximately 3.5 ft wide, with wood railings. Review of aerial images indicates the crossover structures were constructed between 1981 and 1995. The remaining four crossovers do not have structures. The APE for the drainage improvements in 4 th St. S is in a macadam-paved street. Small wood-frame utility buildings are located at the beach ends of the 8 th St. S and 4 th St. S crossovers. The buildings are similar in design, with composition shingle roofs and vertical siding. Each stands on a low timber platform at the edge of the dunes. Review of Google Earth aerial imagery shows both buildings were originally constructed between 1995 and 2002. The 8 th St. building survived Hurricane Sandy, but that at 4 th St. was washed away, with only the platform surviving the storm. The latter building was reconstructed after 2/24/2013. These is the only buildings in the APE. <u>Archeology</u> : The project occupies portions of city-owned dunelands designated as Block 101.01 Lot 1, public beach, and municipal street right-of-way on Brigantine Beach, a barrier island. As indicated in the discussion of the Undertaking, the APE for ground disturbances is estimated to be approximately 1.22 acres. The study area is not situated in an HPO archeological sensitivity grid square. Review of historical aerial imagery beginning in 1920 suggests that there was substantial loss of dunelands and shoreline retreat in the project study area between				
	No information is available to indicate whether the revegetation alone. The NRCS maps the soils of and dune sand that have been widely altered by u	he present dune syst the study area as Ho rban development.	em is partially artificial or w oksan-Urban land complex Given the location of the pro	whether it was establish (HoruBr), a mapping oject, it has low arch	ished or stabilized by g unit comprised of beach eological potential.
There are no histo	ric properties affected within the pro	ject's area of p	otential effects, pursu	ant to 36 CFR	800.4(d)(1) for the
following reason(s): [Check All That Apply]	-	· •		
Historic Architecture:	Located in "Green Zone"* (Areas of A ga**	letermined by FEM.	A/HPO to have low potentia	ll for above-ground l	istoric properties)
improvement area only other parts of the APE a outside but adjacent to mapped Green Zone. **Utility buildings.	image: are the □ Lacks Integrity of Materials/Desig □ Not Within / In View of a Nationa □ Not a Building (per FEMA Definit □ Other – Lacks Distinctive Character	n l Register of Hist tion)*** eristics That Mak	oric Places Listed / Eligit e It Individually Eligible	ole Historic Distric	et HP
***Dune crossovers, etc					
Archaeology:	Low Archaeological Potential: Located on Barrier Isla Substantially Conforms Located on Disturbed S Not Located within 500 Not Located on Well-d Not Identified Within a	nd s to the Original F soils) Feet of Waterwa rained Soils . Historic Property	Cootprint ays and/or Wetlands y / Historic District		
Public Consultation Federally Recognized Tribes, Certified Local Governments, Historic Preservation Commissions, etc: None to date (10/26/2014). *Property contains no known NHLs; NRHP-listed/-eligible properties; identified or potential large pre-contact Native American site, or graves, burials, or cemeteries. It is not known to be located in a CLG or other locality in which active government management of historic resources is taking place and does not involve "extensive" ground disturbance in the sense of PA Appendix D.					
	HISTORIC PRESE	RVATION O	FFICE USE ONLY		
□ I concur with this finding,					
🗆 I do not concur	with this finding for the following re	ason(s):			
Daniel D. Saunders Deputy State Histor	Daniel D. Saunders Deputy State Historic Preservation Officer				
Architecture Revie	wer J.C. Sexton, Tetra Tech	Archaeology	Reviewer	C.L. Borstel,	Tetra Tech
Date Reviewed	10/26/2014				



New Jersey Department of Environmental Protection Hurricane Sandy Community Development Block Grant Form – 1 : No Historic Properties Affected (Version 1.0)





Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ

Continuation pages

Undertaking:

The City of Brigantine Beach proposes to upgrade 10 dune crossovers at the Atlantic Ocean beach to improve public access and strengthen the foredune system against storm damage. The Undertaking consists of replacement and enhancement of existing dune crossovers along a 10-block section between 10th Street South (at the south end) and Vernon Place (at the north end). Existing 3- to 4foot-wide timber crossovers, where present (see Table 1), will be removed and replaced with dense graded aggregate (DGA) paths 10 feet wide, flanked by post-and-rail fences that are intended to protect adjoining dune areas from foot traffic. Existing path alignments

Table 1: Existing and Proposed Crossover Path Characteristics					
Location	Existing Path		Proposed Path		
Location	Length (ft.) ¹	Timbered? ²	Length $(ft.)^3$	Mobility Mat (ft.) ³	
10th St.	112	No	180	100	
9th St.	81	No	130	100	
8th St.	170	No	220	100	
7th St.	302	Yes	350	100	
6th St.	315	Yes	380	100	
5th St.	270	Yes	300	100	
4th St.	307	Yes	400	100	
3rd St.	274	No	360	100	
2nd St.	257	Yes	330	100	
Vernon Pl.	256	Yes	310	100	
Total	2,344	-	2,960	1,000	

Sources:

¹Brigantine City conceptual plans.

²Tetra Tech field Inspection on 10/14/2014.

³Tetra Tech measurement of Brigantine City conceptual plans imported as overlays into Google Earth.

and grades will be modified for improved barrier-free access and greater storm resilience. Paths currently tend to follow a direct line from the street end to the beach. The new paths will include offsets to reduce their tendency to serve as channels for storm surges and to meet ADA standards. The project includes funding to acquire 2000 linear feet of 5-foot-wide plastic mobility mat (such as Mobi-Mat[®] RecPathTM or equivalent), a portable and removable rollout access pathway for pedestrians, wheelchair users, strollers, and other light vehicles. The mobility mats will extend across the beach toward the surf line from the ends of the crossover paths. They will be installed each summer season with pins driven into the beach sand. During the off-season, the mats will be removed and stored off-site. The final component of the project is the installation of 340 linear feet of 24-inch perforated pipe in 4th Street South and inlets to improve local stormwater drainage. This project element will be located in 4th Street South approximately between West Brigantine Avenue and the street end of the 4th Street South crossover path.

According to Mr. James Rutala, PP, AICP, of Rutala Associates, Linwood, who is serving as the Owner's Representative for this project, most dune crossover path construction will take place within the planned 10-foot alignment, except where grade changes require work outside the planned alignment (Rutala-Tetra Tech Project Kick-off Telephone Call on 10/14/2014). Information about the planned subgrade characteristics of the paths and specific locations where excavation or filling may take place outside the 10-foot

Architecture Reviewer	J.C. Sexton, Tetra Tech	Archaeology Reviewer	C.L. Borstel, Tetra Tech
Date Reviewed	10/26/2014		

Required Documentation: 🖾 Historic Properties Map 🖾 Soils Map 🖾 USGS Quad Image: Property Photos V1.0 9/26/13 (TT 8/18/2014) Page 2 of 3







Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ

path alignments is currently not available. Staging and stockpile areas will be situated at the ends of the paved streets adjacent to the street-side entrances to the paths. The stormwater drainage system will be installed in a trench measuring 42 inches wide by approximately 5 to 6 feet deep.

Application materials prepared by the City of Brigantine indicate that approximately 89 percent of the project will be funded by the New Jersey Economic Development Authority (NJEDA), using funds from the US Department of Housing and Urban Development Grant No. B-13-DS-34-0001. The Undertaking is therefore subject to review in accordance with the "Programmatic Agreement Among the Federal Emergency Management Agency, the New Jersey State Historic Preservation Officer (SHPO), the New Jersey State Office of Emergency Management, the Advisory Council on Historic Preservation, the Absentee Shawnee Tribe of Indians of Oklahoma, the Delaware Nation, the Delaware Tribe of Indians, the Shawnee Tribe of Oklahoma, and the Stockbridge Munsee Band of Mohicans as a Result of Hurricane Sandy" (PA).

Area of Potential Effects (APE):

With respect to potential below-ground historic resources, the APE is defined as the areas subject to ground disturbance, which consist principally of the proposed 10 dune crossover paths and the stormwater drainage improvements on 4^{th} Street South. For completeness, the area occupied by the mobility mats is also included, but the subsurface effects of these devices appear to be minimal and would occur only in the geologically dynamic beach environment. For purposes of estimation of the surface area of potential ground disturbances, it is assumed that such disturbances will average 15 feet wide for the path, based on information that indicates construction area will normally be restricted to the 10-foot finished width of the path, but applying a 50 percent contingency to account for areas where cutting or filling extends outside the path. The trench for the stormwater system is assumed to have a potential area of disturbance up to 10 feet wide. The mobility mats are assigned a disturbance footprint equivalent to their width, though this is a highly conservative assumption of potential effects. Based upon the information in Table 1 and the stated length of the stormwater system provided by the Brigantine City Engineer (340 feet), the APE for this Undertaking for potential below-ground historic resources is approximately 45,000 (crossover paths) + 5,000 (mobility mats) + 3,400 (stormwater) = 53,400 square feet, or 1.22 acres.

With respect to potential above-ground historic resources, the APE is defined as areas immediately adjoining the proposed project elements. The tallest elements of the Undertaking will be the post-and-rail fences, with a height of 42 inches above grade. Many elements will be at or below ground surface and have little or no potential to affect possible adjoining historic resources.

In this discussion, the "study area" refers to the area of duneland, beach, and adjoining street ends within which the proposed Project will be constructed. This area is approximately 2,800 feet long, northeast to southwest, and ranges from approximately 200 to 580 feet wide. The APE are the locations within this study area where project activities with the potential to affect above- or below-ground historic resources will actually take place.

Architecture Reviewer	J.C. Sexton, Tetra Tech	Archaeology Reviewer	C.L. Borstel, Tetra Tech
Date Reviewed	10/26/2014		
Required Documentation: I Historic Properties M		s Map 🗵 Soils Map 🛛 USGS Qua	d I Property Photos





Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ







Applicant ID #	NCR39808
Property Address:	Brigantine Beach Public Access, beach between 10th Street South and Vernon Place, Brigantine, NJ







Applicant ID #NCR39808Property Address:Beach between 10th Street South and Vernon Place, Brigantine, NJ







Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ







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Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ







Applicant ID #	NCR39808
Property Address:	Brigantine Beach Public Access, beach between 10th Street South and Vernon Place, Brigantine, NJ







Applicant ID #	NCR39808
Property Address:	Brigantine Beach Public Access, beach between 10th Street South and Vernon Place, Brigantine, NJ







Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ







Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ

Date:	10/14/2014	
Direction:	Looking southeast	
	10 th Street South	
Description:	crossover. Street	
	end.	
		The second







Applicant ID #	NCR39808	
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ	

Date:	10/14/2014	
Direction:	Looking northwest	
Description:	9 th Street South crossover. Street end.	







Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ









Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ

Date:	10/14/2014	
Direction:	Looking northeast	
Description:	8 th Street South utility building	

Date:	10/14/2014	1. S.		OFECTED BEACH ATHE AT
Direction:	Looking southeast			
Description:	7th Street South crossover. Street end.			





Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ

Date:	10/14/2014	
Direction:	Looking northwest	
Description:	7th Street South crossover. Beach end.	

Date:	10/14/2014	and the second se
Direction:	Looking southeast	the state of the s
Description:	6th Street South crossover. Street end.	





Applicant ID #	NCR39808	
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ	



Date:	10/14/2014	
Direction:	Looking northwest	
Description:	5th Street South crossover.	
Looking towa	rd street end.	





Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ



Date:	10/14/2014
Direction:	Looking southeast
Description:	4th Street South View from West
Brigantine Av stormwater in component of crossover is to stop sign post	venue at location of nprovement project. Dune) immediate left of







Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ

Date:	10/14/2014 Looking	
Direction:	northwest	
Description:	4th Street South	
Location of st	ormwater	
improvement	component of	
project.		

Date:	10/14/2014	
Direction:	Looking northwest	
Description:	4th Street South crossover	
	_	





Applicant ID #	NCR39808	
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ	









Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ



Date:	10/14/2014	
Direction:	Looking northwest	
Description:	3 rd Street South crossover. Beach end.	
		and a set of the second





Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ









Applicant ID #	NCR39808
Property Address:	Beach between 10th Street South and Vernon Place, Brigantine, NJ







SCALE IN FEET

BIC003

1 of 3

T HARDY





Roll-Out Access Pathway







Mobi-Mat[®] RecPath[™] is a portable and removable rollout access pathway for pedestrians, wheelchair users, strollers, bicycles and ATVs.

ADA-Compliant

Firm, safe and stable, easy for any type of wheelchair, stroller or walker to maneuver on – providing a smooth continuous surface without gaps.

Environmentally Friendly

Made of 100% recycled polyester, Mobi-Mat® RecPath™ contributes to the environment by utilizing recycled plastics. RecPath™ channels traffic along designated areas to protect sensitive dunes.





Safe and Cool Pathway Cool surface: permeability and 3-D design provide a comfortable surface to barefoot or handicapped users with sensitive feet. Mobi-Mat[®] eliminates the risk of injury commonly caused by splintered wood boards or exposed nails/ screws.

Lightweight and Easy Installation

Mobi-Mat[®] is only 0.27 lbs/sqft, facilitating installation and retrieval of a 50'long section by two persons in ten minutes. Installation and retrieval can be performed by one person when using our Mobi-Roller^m.

Aesthetically Pleasing Colors: blue or brown

Low Maintenance:

Will not sink into the sand, the Mobi-Mat[®] permeable structure allows sand to filter through. Mobi-Mat[®] RecPath[™] is easily maintained by sweeping any excess sand build up with a broom or with a leaf blower.







Mobi-Mat® Type AFX Brown



Please, contact us for



RecPath™ - Mobi-Mat® Type AFX 0.27 lb/sqft (1.3 kg/m²)																	
Width	60″ (1.53 m)								78″ (1.98 m)								
Length	16′ (5 m)		33′ (10 m)		50' (15	50′ (15.20 m)		82′ (25 m)		16' (5 m)		33' (10 m)		50′ (15.20 m)		82′ (25 m)	
Weight rolled up	35 lb (16 kg)		50 lb (23 kg)		72 lb (33 kg)		117 lb (53 kg)		37 lb (17 kg)		64 lb (29 kg)		92 lb (42 kg)		150 lb (68 kg)		
Color	Blue	Brown	Blue	Brown	Blue	Brown	Blue	Brown	Blue	Brown	Blue	Brown	Blue	Brown	Blue	Brown	
Kit P/N	191 811	191 810	191 799	191 796	191 800	191 797	191 801	191 798	191 806	191 802	191 807	191 803	191 808	191 804	191 809	191 805	

* Each kit is equipped with end connectors and eyelets to insert the staples provided in the kit Download installation sheet on www.mobi-mat-chair-beach-access-dms.com









Discover our complete range on www.mobi-mat-chair-beach-access-dms.com



Mobi-Fence™



Helipad™



Mobi-Ramp™



Mobi-Chair®



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www.mobi-mat-dms.com





RecPath[™] INSTALLATION DATA SHEET

Made from 100% recycled polyester, Mobi-Mat[®] range offers the RecPath[™], the lightest roll-out environmentally friendly mat for creating the best ADA compliant outdoor access ways in minutes.

Supplied as a ready-to use kit in a cardboard box, the kit includes one RecPath[™] roll and the necessary accessories for installation including X-shape connector bar at ends, staple pack, and pair of gloves.

1. Pre-installation

Prepare the area prior to installation of the RecPath[™] by leveling the ground surface with a rake to clear debris, large stones and foreign objects.

2. Start creating your beach pathway

Unroll the RecPath[™] and lay it in the desired position (*Fig.* 1).

Check the mat surface and place the smooth side facing up and the corrugated side facing down in contact with the ground.

Begin by aligning one end completely with the sidewalk or boardwalk you are extending it from. Secure the starting end of the mat, using the U-shaped staples provided (*Fig. 2*).

On flat terrain, insert staples through the connector holes, as close as possible to the sidewalk/ boardwalk so there is no gap.

On sloped or heavy traffic areas, insert staples through the connector holes and eyelets.

3. Stretch & Anchor your mats down

Stretch the Mobi-Mat[®] from the other end; utilize the U-shaped staples inserted through the eyelets as a tensioning tool to gently stretch the mat. (*Fig. 3*).

Secure the mat end by fastening the end with U-shaped staples inserted through the connector with a hammer (*Fig. 2*).

To secure the mat lengthwise, insert a staple through the eyelet positioned on the lengthwise side of the mat (*Fig. 4*).

4. Connecting Multiple RecPath™

Repeat 1 and 2 (Fig. 1 & 2).

Use end connectors: lay mat ends side by side and then slide the X-shaped connector bar into position to link both mat ends together (*Fig. 5*). Repeat 3 (*Fig. 3 & 2*).

5. Maintenance

Using a broom or leaf blower is the preferred method for keeping the Mobi-Mat[®] surface free of sand and debris.

If too much sand accumulates underneath, roll back the mats and level the ground. Then re-do installation.

Optional RecPath™ installation

Creating a Change in Path Direction or Resting Areas with a "T" or "L" shape

Overlap the mats at an angle to create "T" or "L" shape paths to create a change in path direction or resting areas for wheelchair users and baby strollers. (*Fig. 6*).

No visible end

Dig a 4" (10cm) deep and 3" (8cm) wide trench at the end of the RecPathTM, position the mat end connector straight down at 30 degrees into the sand and anchor the mat down using the U-shaped staples and bury it.



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Borstel, Christopher

From:	Rutala Associates <jmrutala@comcast.net></jmrutala@comcast.net>
Sent:	Monday, October 20, 2014 9:40 AM
То:	Bock, John
Cc:	'Jerri Weigand'; 'McAlear, Joseph'; 'Rickman, Brett'; Williams, Beth; Fischl, Joseph; Flis,
	Tom; Borstel, Christopher; Sollenberger, Chris
Subject:	Brigantine Beach
Attachments:	4th Street So. Drainage Conceptual.pdf

John, the boundary that you show on the maps is accurate, while the eastern boundary will not extend to the surf as shown and as discussed below. Regarding the other questions that we discussed during our conference call:

Cross section of the dunes where paths will be built – pre-construction. We have not performed surveys of the dune paths and therefore cannot produce pre-construction cross sections.

- Describe how the mobie matt will be secured? The mobie matt is anchored with pins. Does it remain in place year-round? The mats will be removed after the summer season and stored at the DPW yard until the following spring.
- Describe the length of each path segment; does the path extend on the beach? The path terminates at the ocean side of the primary dune and the mobie matt will extend onto the beach for a short distance (100' +/-).
- Does the alignment of the proposed paths deviate from the disturbed areas? The City plans to utilize the existing path location.
- Provide a plan that highlights the proposed drainage system. I have attached a conceptual plan of the drainage improvements proposed at 4th Street South.

Regards,

Jim

James M. Rutala, PP, AICP, MBA Rutala Associates, LLC Linwood, New Jersey 08221-1226 jmrutala@comcast.net 609.743.0354



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From: Bock, John [mailto:John.Bock@tetratech.com]
Sent: Thursday, October 16, 2014 7:42 PM
To: 'Rutala Associates (jmrutala@comcast.net)'
Cc: 'Jerri Weigand'; 'McAlear, Joseph (Joseph.McAlear@icfi.com)'; Rickman, Brett (Brett.Rickman@icfi.com); Williams, Beth; Fischl, Joseph; Flis, Tom; Borstel, Christopher; Sollenberger, Chris
Subject: RE: Lafayette Park and Brigantine Beach

Jim, please find attached a map illustrating our understanding of the proposed boundary for the Brigantine Beach Access project. This encompasses the full extent of the area that may be subject to ground-disturbing activities. While we understand from Tuesday's call that paved street ends adjacent to the dune walkways would be used for vehicle, equipment, and material staging, there would be no intrusive or ground-disturbing work in those areas. Please let us know if this project boundary is accurate.

We also have the following additional questions regarding that project:

- 1. When were the dune walkways constructed/installed?
- 2. When were the dune stabilization and revegetation efforts begun on the dune system crossed by the walkways?

I haven't been able to get in touch with Jerri, so please send the materials we discussed on Tuesday to both of us.

Please let me know if you have any questions. Thanks.

John R. Bock | Senior Environmental Scientist Main: 510.302.6300 | Fax: 510.433.0830 john.bock@tetratech.com

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-----Original Appointment----From: Bock, John
Sent: Friday, October 10, 2014 11:52 AM
To: Jerri Weigand; McAlear, Joseph (Joseph.McAlear@icfi.com); Rutala Associates (jmrutala@comcast.net); Williams, Beth; Fischl, Joseph; Flis, Tom; Borstel, Christopher; Rickman, Brett (Brett.Rickman@icfi.com)
Subject: Lafayette Park and Brigantine Beach
When: Tuesday, October 14, 2014 11:00 AM-11:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: 1-866-692-5721, Passcode 6372

Please join us for a call to discuss the Lafayette Park and Brigantine Beach projects funded through the NCR program

NCR39808 - Brigantine Beach Access Project Project Boundary (Approximate)





4th Street South Drainage Improvements