Permitting Submission

Matunuck Beach Condos
Matunuck Beach Road
South Kingstown, Rhode Island
Assessor's Plat 92-2 Lot 56

Sheet List Table
1. Cover Sheet
2. Aerial Half Mile Radius
3. General Notes & Legend
4. Existing Conditions Plan
5. Soil Erosion & Sediment Control Plan
6. Site Layout Plan
7. Grading Plan
8. Drainage and Utilities
9. Plan & Profile
10. Stormtech & UIS Detail Sheet
11. Detail Sheet - 1
12. Detail Sheet - 2
13. Detail Sheet - 3
14. Detail Sheet - 4
L1-L3 Landscape Architect Plan (prepared by others)
Level Spreader

Outlet Control Structure
4' Diameter Manhole (OCS-37 & OCS-38)

Stormwater Treatment System A

Existing Low Point

Stormwater Treatment System B

DiPrete Engineering

Assessor's Plat 92-2 Lot 56
Matunuck Beach Condos
Matunuck Beach Road Partners, LLC

P.O. Box 385
Wakefield, RI 02880

Boston    Providence    Newport
Two Stafford Court
Cranston, RI 02920
tel 401-943-1000  fax 401-464-6006  www.diprete-eng.com

Plotted: 2/18/2022

This plan set must not be used for construction purposes unless stamped 'Issued for Construction' and stamped by a Registered Professional Engineer. DiPrete Engineering Associates, Inc. assumes no responsibility for damages incurred due to locations of existing utilities. See 'Utility Note' on Sheet 3.

Date
No.

0 N.D.K.
Drawn By: N.D.K.

07-01-2021
RIDEM Submission

1 S.R.08-11-2021
Preliminary Plan Submission

2 J.A.C.08-30-2021
Water Submission

3 J.A.C.09-01-2021
Town Submission

4 S.R.10-06-2021
CRMC Assent Application Submission

5 S.D.M.10-22-2021
Permitting Submission

6 S.R.12-03-2021
Response To TRC Comments

7 S.P.B.02-17-2022
Response To TRC Comments

8

Scale: 1"=40'

North

Outlet Control Structure
4' Diameter Manhole (OCS-37 & OCS-38)
This plan set must not be used for construction purposes unless stamped 'Issued for Construction' and stamped by a licensed professional engineer. The plan set is provided for preliminary design and consultation purposes. The designer assumes no responsibility for damages incurred due to the inaccuracies in the information provided. See 'Utility Note' on Sheet 3 for details on the locations of existing utilities.

Sheet 2 of 14

Date: 02/18/2022

Drawn By: N.D.K.

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Wakefield, RI 02880

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Plotted: 2/18/2022

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UNDERGROUND INFILTRATION SYSTEM

NOT TO SCALE

NOTES:

1. CLEAN STONE SHALL BE CLEAN DOUBLE WASHED ANGULAR STONE. STONE MUST MEET AASHTO SPECIFICATION M-43 SIZE NO. 2 OR NO. 3.

WATER QUALITY TREATMENT SYSTEM

SNAP SHEET

Applicant/Owner

DE Job No: 2389-002  Copyright 2022 by DiPrete Engineering Associates, Inc.
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Wakefield, RI 02880

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Plotted: 2/18/2022

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Date

No.

0 N.D.K.

Drawn By: N.D.K.

07-01-2021

RIDEM Submission

Design By: N.D.K.

08-11-2021

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UNDERGROUND INFILTRATION SYSTEM

96" MAXIMUM

STORMTECH CHAMBER

NYLOPLAST 12" INLINE DRAIN

BODY W/SOLID HINGED COVER OR GRATE (OR EQUAL PRODUCTS)

PAVEMENT

STORMTECH GENERAL INSPECTION PORT DETAIL

NOTE: ALL SCH 40 FITTINGS TO BE SOLVENT CEMENTED

CLASS "C" CONCRETE COLLAR*

18" MINIMUM*

8" MINIMUM*

CONNECTION DETAIL

4" SCH 40 PVC

4" SCH 40 PVC COUPLING

4" SCH 40 PVC

8"

INSPECTION PORT TO BE CONNECTED THROUGH CHAMBER CORRUGATION VALLEY. SEE CONNECTION DETAIL

*NOTE: CONCRETE COLLAR NOT REQUIRED FOR UNPAVED AREAS

TWO LAYERS OF ADS GEOSYNTHETICS 315 WTK WOVEN GEOTEXTILE (OR EQUAL) BETWEEN FOUNDATION STONE AND CHAMBERS

SC-740 -- 5' MIN WIDE STRIP

COVER ENTIRE ROW WITH ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE OR EQUAL

SC-740 -- 8' MIN WIDE STRIP

STORMTECH ISOLATOR ROW DETAIL

SC-40

SEE STORMTECH GENERAL INSPECTION PORT DETAIL FOR ALL OTHER INSPECTION PORTS.

NOT TO SCALE

PAVEMENT

CLASS "C" CONCRETE COLLAR

NYLOPLAST 12" INLINE DRAIN

BODY W/SOLID HINGED COVER OR GRATE (OR EQUAL PRODUCTS)

6" INSERTA TEE (OR EQUAL) TO BE CENTERED ON CORRUGATION CREST

6" SDR 35 PVC

STORMTECH CHAMBER

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED AREAS

ISOLATOR ROW INSPECTION PORT

CATCH BASIN OR MANHOLE

STORMTECH END CAP

NOT TO SCALE

PAVEMENT

WATER QUALITY TREATMENT SYSTEM

STORMTECH SC-40 TYPICAL CROSS SECTION

GRANULAR WELL GRADED SOIL/AGGREGATE MIXTURES, <35% FINES. COMPACT IN 6" LIFTS TO MIN 95% PROCTOR DENSITY FOR WELL GRADED MATERIALS AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. SEE STORMTECH TABLE OF ACCEPTABLE FILL MATERIALS

CHAMBERS SHALL MEET ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

SUITABLE SUB BASE

SEE NOTES 4 & 5

NOTES:

1. THIS CROSS SECTION DETAILS THE REQUIREMENTS NECESSARY TO SATISFY THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. SEE SHEET 10 FOR CONNECTIONS. CHAMELEON IS TO BE USED AT THE DIRECTION OF THE SITE ENGINEER OR GEOTECHNICAL ENGINEER. OTHERWISE ASTM C-33 OR AASHTO M6 CONCRETE SAND MUST BE USED.

3/4"-2" CLEAN, WASHED, CRUSHED, ANGULAR STONE

SC-740 END CAP

SC-740 CHAMBER

10

Stormtech & UIS Detail Sheet

North
NOT TO SCALE

TYPICAL ACCESSIBLE PARKING SPACES

8' MINIMUM
SEE SITE PLAN

TYPICAL ACCESSIBLE PARKING SPACE

4" WHITE STRIPING 2' O.C. AT 45°
SEE SITE PLAN

NOTES:

PAINTED ADA SYMBOL
(REFERENCE MUTCD FIGURE 3B-22 IN CONFORMANCE WITH ADA REGULATIONS)

PAINTED ADA SYMBOL
(REFERENCE MUTCD FIGURE 3B-22 IN CONFORMANCE WITH ADA REGULATIONS)

NOT TO SCALE

TYPICAL ACCESSIBLE PARKING SIGN

ACCESSIBLE PARKING PERMIT REQUIRED

TYPICAL VAN ACCESSIBLE PARKING SPACE

4" WHITE STRIPING 2' O.C. AT 45°
SEE SITE PLAN

NOTES:
1. SIGN MUST BE PLACED BEHIND APPLICABLE VAN ACCESSIBLE OR ACCESSIBLE SPACE AS SHOWN ON SITE PLAN.
2. ACCESSIBLE PARKING PERMIT REQUIRED
3. THE MINIMUM HEIGHT OF THE BOTTOM OF THE LOWEST SIGNS MUST BE 60".
4. THE MINIMUM HEIGHT OF THE TOP OF THE HIGHEST SIGNS MUST BE 96".

TYPICAL VAN ACCESSIBLE PARKING SIGN

ACCESSIBLE PARKING PERMIT REQUIRED

NOT TO SCALE

TYPICAL PAVEMENT SECTION

NOTES:

PAINTED ADA SYMBOL
(REFERENCE MUTCD FIGURE 3B-22 IN CONFORMANCE WITH ADA REGULATIONS)

PAINTED ADA SYMBOL
(REFERENCE MUTCD FIGURE 3B-22 IN CONFORMANCE WITH ADA REGULATIONS)

NOT TO SCALE

TYPICAL ACCESSIBLE PARKING SIGN

ACCESSIBLE PARKING PERMIT REQUIRED

TYPICAL VAN ACCESSIBLE PARKING SPACE

4" WHITE STRIPING 2' O.C. AT 45°
SEE SITE PLAN

NOTES:
1. SIGN MUST BE PLACED BEHIND APPLICABLE VAN ACCESSIBLE OR ACCESSIBLE SPACE AS SHOWN ON SITE PLAN.
2. ACCESSIBLE PARKING ... MUST MATCH ADJACENT SPACES, SO LONG AS THEY COMPLY WITH THE CURRENT EDITIONS OF ALL APPLICABLE STANDARDS AND REGULATIONS.
NOTES:

1. CONTRACTOR MUST REMOVE TOP AND SUBSOILS/EXCAVATE DOWN TO THE CHORIZON WITHIN THE FOOTPRINT OF ALL INFILTRATION AREAS TO THE DEEPEST POINT OF THE SITE. CONCRETE MUST BE USED.

2. CONTRACTOR MUST REMOVE ALL TOP SOIL EXCEPT WHERE MATTING IS LOCATED. MATTING MIGHT NOT BE INSTALLED IN THE AREA ALREADY EXCAVATED OR WHERE MATTING MIGHT NOT BE INSTALLED AS DETERMINED BY SITE ENGINEER OR GEOTECHNICAL ENGINEER.

3. CONTRACTOR MUST INSTALL A 1IN. THICK CONCRETE SLAB OVER THE DRAINAGE STRUCTURES OR WHERE MATTING IS INSTALLED.

4. CONTRACTOR MUST INSTALL A 6 IN. THICK CONCRETE SLAB UNDER THE APRON OF THE STRUCTURE.

5. CONTRACTOR MUST INSTALL A 12 IN. THICK CONCRETE SLAB UNDER THE APRON OF THE STRUCTURE.

6. CONTRACTOR MUST INSTALL A 12 IN. THICK CONCRETE SLAB UNDER THE DRAINAGE STRUCTURES OR WHERE MATTING IS INSTALLED.

7. CONTRACTOR MUST INSTALL A 12 IN. THICK CONCRETE SLAB UNDER THE APRON OF THE STRUCTURE.

8. CONTRACTOR MUST INSTALL A 12 IN. THICK CONCRETE SLAB UNDER THE APRON OF THE STRUCTURE.