

PROPERTY OWNERS WITHIN 200'
WILL BE SUBMITTED UNDER
SEPARATE COVER

1. Applicant/Owner:
Ocean View Petroleum, LLC
3938 South main Road, Vineland, NJ 08360
Phone 856-825-7600
2. The project site is known as Block 245 Lot 55, as shown on tax map sheet #27 of the Dennis Township Tax Maps.
3. The project site is located in the (OVCC) Ocean View Center Core Zoning District.
4. The project site consists of an area of 0.52 Acres (22,460 SF).
5. An existing two story building is located on the project site. The first floor is an abandoned convenience store and the second sotry is a vacant one bedroom apartment. The site consist of impervious and grass cover with associated parking. An existing septic system is located in the back of the site.
6. It is the intent of the Applicant to renovate the existing building into a shop and a second floor apartment. The Applicant also intends to construct a 54' x 78' gas station canopy, underground gas tanks, parking and driveways.
7. The proposed improvements will be serviced by the existing on-site septic system and well.
8. All concrete curb, sidewalk, pavement disturbed in kind within road rights-of-way are to be repaired in kind.
9. No drainage improvements are proposed, The impervious area on site is being decreased.
10. All traffic signs, other signs, mailboxes, poles and/or safety devices that will be removed during construction are to be reinstalled at the proper location.
11. The proposed application will require approvals from the following agencies:
 - Dennis Township Land Use Board
 - Cape Atlantic Soil Conservation District
 - New Jersey Department of Transportation
 - Cape May County Planning Board
 - Cape may County Health Department

Outbound and topographic survey information was taken from a plan entitled "Map of boundry survey and existing conditions situs address 2495 Route 9 Cape may Court House Dennis Twp, New Jersey 08210" prepared by Geosurv, 377 Kings highway Cape May Court House, NJ; Harold E Noon, NJPLS 24GS03401400. The survey is dated 3/20/22 last revised 7/24/22. Elevations are in feet and refer to NAVD 1988.

SURVEY INFORMATION

This set of plans has been prepared for purposes of municipal and agency review and approval. This set of plans shall not be utilized as construction documents until all conditions of approval have been satisfied on the drawings and each drawing has been revised to indicate " Issued for Construction."

Contractor shall check and verify all existing utilities, grades, site dimensions and existing conditions before proceeding with construction. Any discrepancies or unusual conditions are to be reported to design engineer/project staff immediately for adjustments or directions.

All construction to be performed in accordance with NJDOT Standard Specifications and supplementary specifications for this project.

These drawings do not include the necessary components for construction safety; however, all construction must be done in compliance with the Occupational Safety and Health Act of 1970 and all rules and regulations appurtenant to this project.

ZONING INFORMATION (OVCC) Ocean View Center Core Zoning District EDA #9640

Description	Required	Existing	Proposed	Variance
Lot Area	1 Acres	0.52 Acres	0.52 Acres	YES*
Lot Width	150'	140.43'	140.43'	YES*
Maximum Building Height	30'	23.8'	23.8'	NO
Maximum Building Coverage	35%	12.0%	12.0%	NO
Maximum Impermeable Coverage	60%	83.13%	74.55%	YES*
Principal Building Setbacks:				
Front Yard (Primary)	0'-8"	23.1'	23.1'	YES*
Front Yard (Secondary)	0'-4"	84.5'	12.9'	YES
Side Yard	30'	16.5'	16.5'	NO
Rear Yard	55'	-1.5'	1.5'	NO
Parking Setbacks:				
Front Yard (Primary)	30'	93.7'	1.8'	YES
Front Yard (Secondary)	10'	12.5'	17.7'	NO
Side Yard	10'	2.6'	2.6'	YES*
Rear Yard	10'	29.0'	29.0'	NO
Parking Requirements:				
Number of Spaces (1 space/3 seats)	16	9	13	YES
Deli 93 Seats				
Parking Space	9' x 18'	9' x 18'	9' x 18'	NO
Sign Requirements:				
Wall Sign Area	30 SF		25 SF	NO

*Existing Non-Conformity

Variances & Waivers

Variances:

- A "D-1" Use Variance is required. A gas station is not a permitted use in the OVCC zone.
- A variance is required to permit a front yard setback if 12.9', where a maximum of 8' is permitted.
- A variance is required to permit 13 parking spots, where 16 is required.
- A variance for front yard parking setback is required to allow a 1.8' setback, where 10.0' is required.
- A variance is required to permit the use of an existing freestanding sign. A freestanding sign is not a permitted sign in the OVCC zone.

No waivers are proposed as part of this application

EDA Engineering Design Associates, P.A.
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COVER SHEET
BLOCK 245 LOT 55
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

VINCENT C. ORLANDO

PROFESSIONAL ENGINEER
N.J.P.E. LIC. #32498



IF THIS PLAN OR DOCUMENT DOES NOT CONTAIN A RAISED SEAL IMPRESSION BEARING THE NAME AND REGISTRATION NUMBER OF THE ABOVE SIGNED PROFESSIONAL, IT MAY NOT BE AN AUTHORIZED COPY OF THE ORIGINAL DOCUMENT AND MAY HAVE BEEN ALTERED. REPRODUCTION OR FURTHER DISSEMINATION OF THE CONTENTS IN WHOLE OR IN PART REQUIRES PERMISSION IN WRITING FROM ENGINEERING DESIGN ASSOCIATES, P.A.

REVISION DATE BY

EDA

DATE: 9/14/2022 DRAWN BY: MSB

SCALE: AS NOTED CHECKED BY: VCO

PROJECT #: 9640 SHEET: 1 OF 7

SITE PLAN FOR OCEAN VIEW PETROLEUM, LLC BLOCK 245, LOT 55 DENNIS TOWNSHIP CAPE MAY COUNTY, NEW JERSEY



Engineers - Landscape Architects - Planners

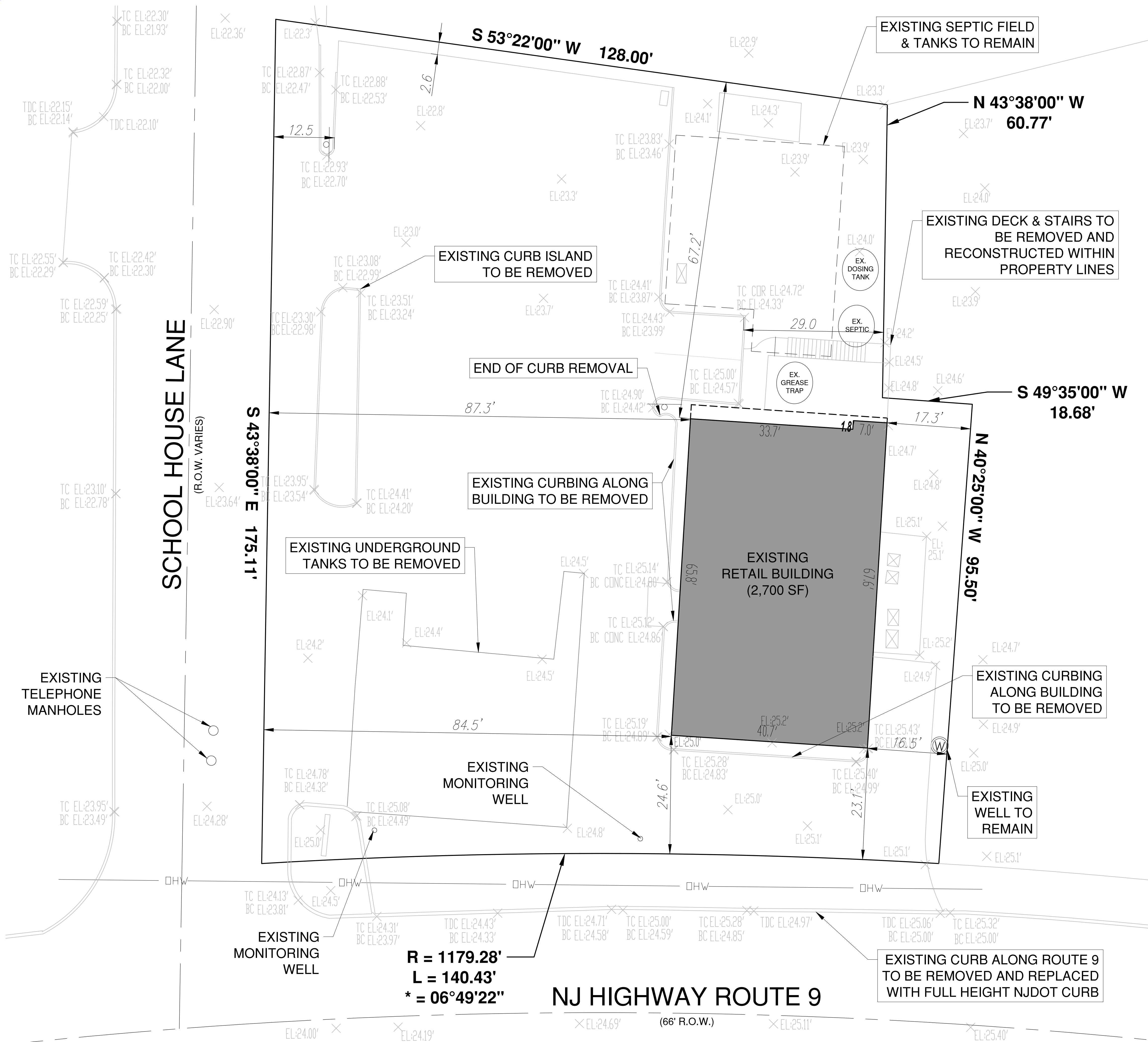
SCHEDULE OF SHEETS

	SHEET NUMBER	ORIGINAL DATE
COVER SHEET	1 OF 7	9/14/22
EXISTING CONDITIONS PLAN	2 OF 7	9/14/22
SITE PLAN	3 OF 7	9/14/22
GRADING, DRAINAGE & SOIL EROSION PLAN	4 OF 7	9/14/22
SOIL EROSION AND SEDIMENT CONTROL NOTES	5 OF 7	9/14/22
LANDSCAPING AND LIGHTING PLAN	6 OF 7	9/14/22
ENGINEERING DETAILS	7 OF 7	9/14/22

LAST REVISION DATE

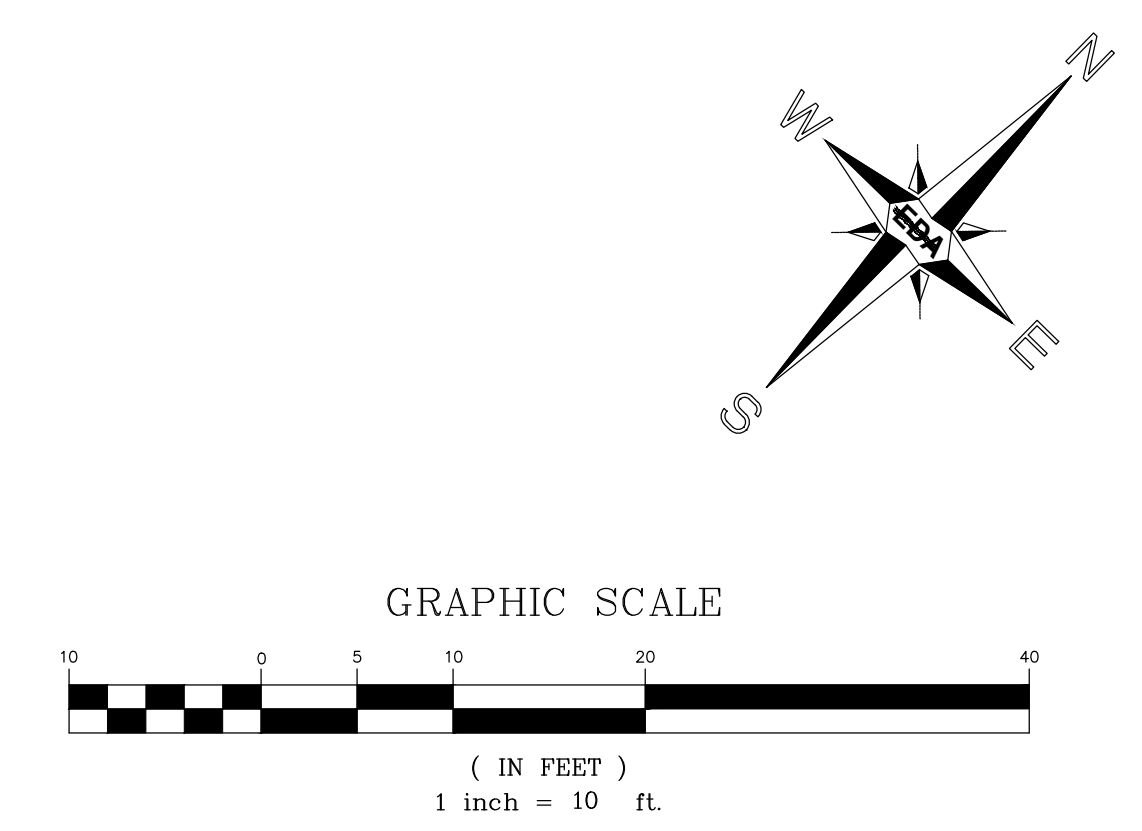
-	Chairman	Date
-	Secretary	Date
-	Engineer	Date

TOWNSHIP OF DENNIS APPROVAL BLOCK



NOTES:

1. Outbound and topographic survey information was taken from a plan entitled "Map of boundry survey and existing conditions situs address 2495 Route 9 Cape may Court House Dennis Twp, New Jersey 08210" prepared by Geosurv, 377 Kings highway Cape May Court House, NJ; Harold E Noon, NJPLS 24GS03401400. The survey is dated 3/20/22 last revised 7/24/22. Elevations are in feet and refer to NAVD 1988.



EXTISTING CONDITIONS & DEMO PLAN



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EXISTING CONDITIONS / DEMOLITION PLAN
BLOCK 245 LOT 55
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

VINCENT C. ORLANDO
PROFESSIONAL ENGINEER
N.J.P.E. LIC. #32498

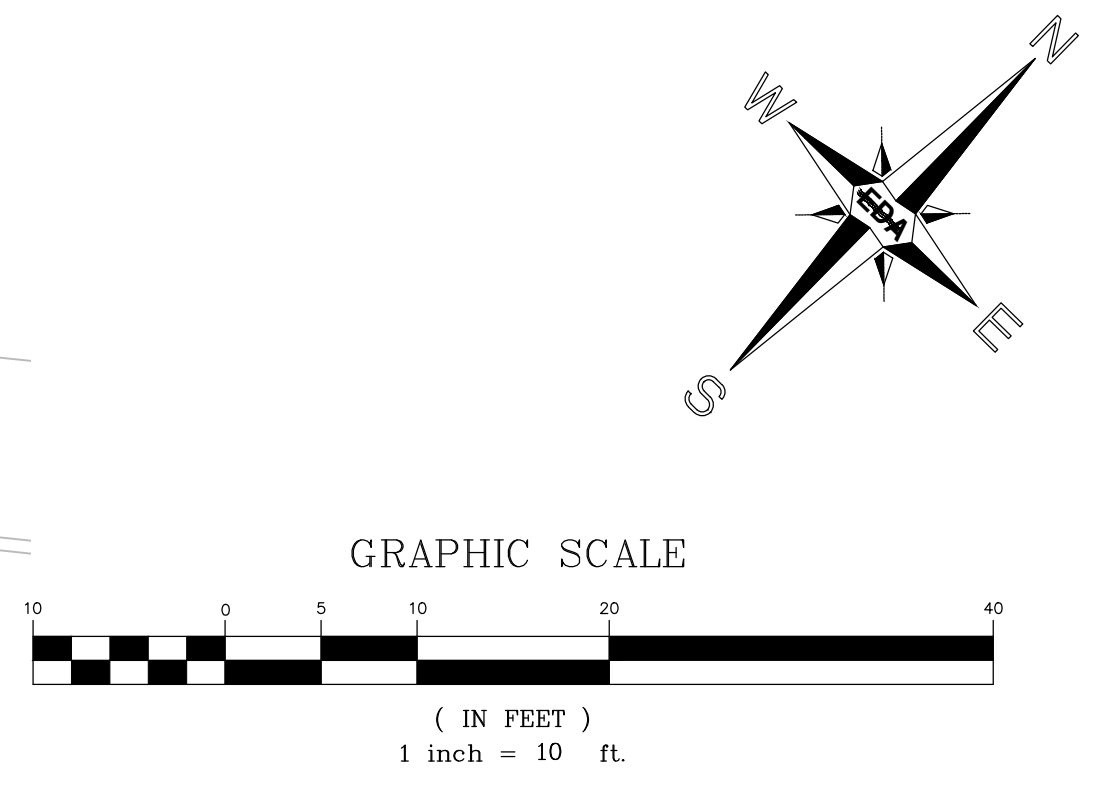
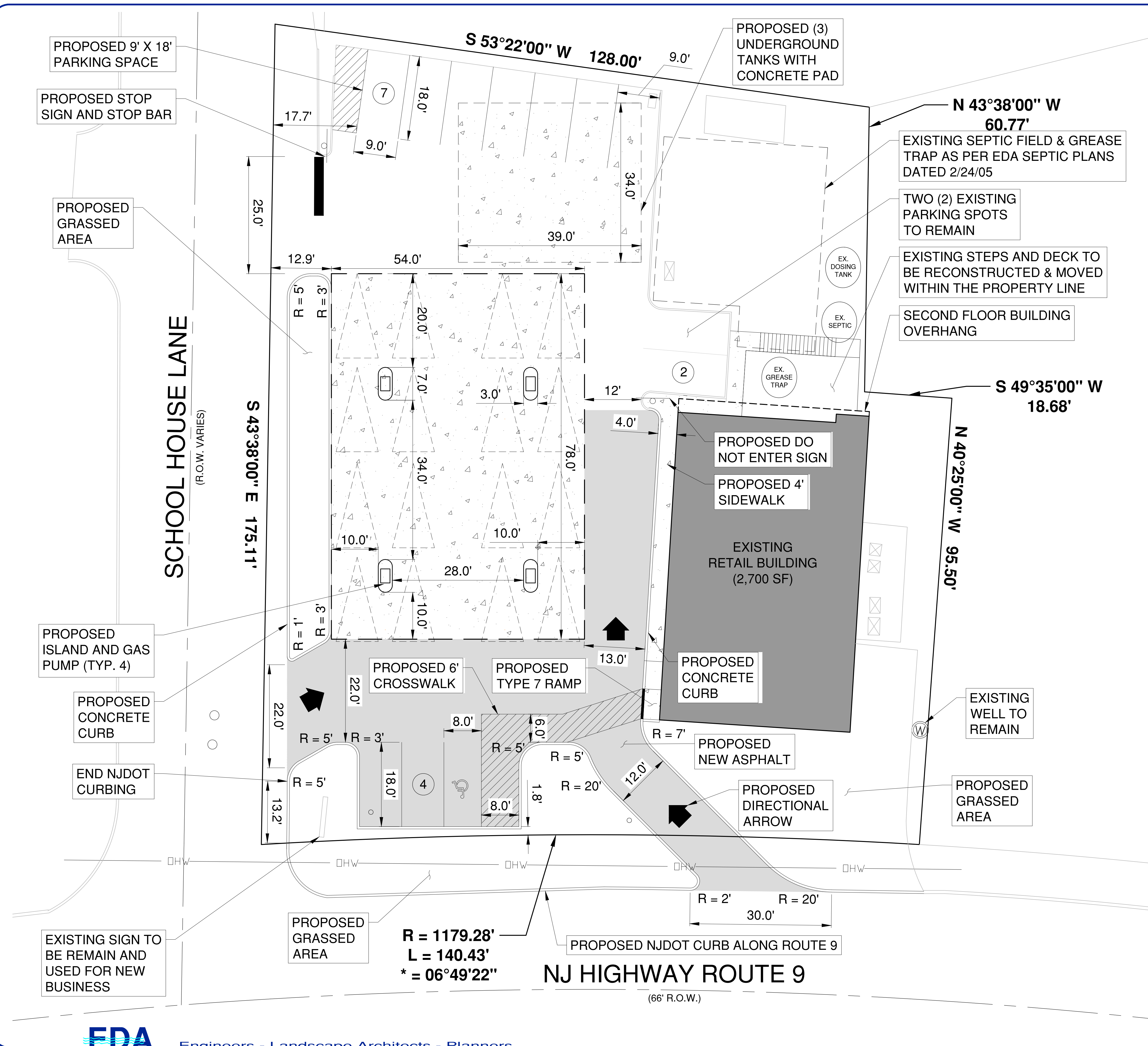


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REVISION	DATE	BY



DATE: 9/14/2022	DRAWN BY: MSB
SCALE: AS NOTED	CHECKED BY: VCO
PROJECT #: 9640	SHEET: 2 OF 7



SITE PLAN

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SITE PLAN
BLOCK 245 LOT 55
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

VINCENT C. ORLANDO
PROFESSIONAL ENGINEER
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REVISION	DATE	BY

EDA

DATE: 9/14/2022	DRAWN BY: MSB
SCALE: AS NOTED	CHECKED BY: VCO
PROJECT #: 9640	SHEET: 3 OF 7

1. All applicable erosion and sediment control practices shall be in place prior to any grading or installation of proposed structures or utilities.
2. Soil Erosion and Sediment Control practices on this plan shall be constructed in accordance with the standards for Soil Erosion and Sediment Control set forth in the current New Jersey Standards.
3. Applicable erosion and sediment control practices shall be left in place until construction is completed and/or the area is stabilized.
4. The contractor shall perform all work, furnish all materials and install all measures required to reasonably control soil erosion resulting from construction operations and prevent excessive flow of sediment from the construction site.
5. Any disturbance of soil is to be protected for more than 30 days prior to construction traffic shall immediately receive a temporary seeding and fertilization in accordance with the New Jersey Standards and their rates should be included in the narrative. If the season prohibits temporary seeding, the disturbed areas will be mulched with salt hay or equivalent and anchored in accordance with the New Jersey Standards and their rates.
6. It shall be the responsibility of the developer to provide confirmation of lime, fertilizer and seed application and rates of application at the request of the Cumberland Soil Conservation District.
7. All critical areas subject to erosion will receive a temporary seeding in combination with straw mulch at a rate of 2 tons per acre, according to the New Jersey Standards immediately following rough grading.
8. The site shall at all times be graded and maintained such that all storm water runoff is diverted to soil erosion and sediment control facilities.
9. All critical areas shall be stabilized with straw mulch on a regular basis and after every storm event.
10. A crushed stone, lime cleaning pad will be installed wherever a construction access exists. The stabilized pad will be installed according to the standards for stabilized construction access.
11. All driveways or access roads stabilized with 2" 12" crushed stone or subbase prior to individual lot construction.
12. All paved areas must be kept clean at all times.
13. All catch basin inlets will be protected according to the certified plan.
14. All drainage facilities will be stabilized, as required, before discharge points become operational.
15. All ditching operations must discharge directly to a sediment filter area. The sediment filter should be composed of a suitable sediment filter fabric. (See detail). The Sed. requires that no certificate of occupancy be issued before the design of the sediment filter area.
16. All areas subject to erosion shall be stabilized with straw mulch and temporary seeding. All site areas subject to erosion and sediment control plan have been completed. The applicant shall be required to provide a certificate of occupancy to the district issuing a report of completion as a prerequisite to the issuance of a certificate of occupancy by the municipality.
17. Mulching is required on all seeded areas to insure against erosion before grass is established to promote earlier vegetation cover.
18. Off-site stabilization and additional critical area stabilization shall be required for all areas subject to erosion.
19. A copy of the certified Soil Erosion and Sediment Control Plan must be maintained on the project site during construction.
20. The Cumberland Soil Conservation District shall be notified 48 hours prior to any land disturbance.
21. Any avoidance of this project prior to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners.
22. Immediately after the completion of stripping and stockpiling of topsoil, the stockpile must be stabilized according to the standard for temporary vegetation stabilization. Stabilization of the stockpile must be completed prior to the application and establishment of temporary seeding. All soil stockpiles shall not be located within fifty (50) feet of a floodplain, slope, roadway or drainage facility and the base must be protected with a sediment barrier.
23. Any avoidance of this project prior to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners. The revised plan must be in accordance with the current New Jersey Standards for Soil Erosion and Sediment Control.
24. Methods for the management of high acid producing soils shall be in accordance with the standards. High acid producing soils are those found to have a pH of less than 4 or less.
25. Temporary erosion control measures shall be applied according to the New Jersey Standards, and mulched with salt hay or equivalent and anchored in accordance with the New Jersey Standards. (ie. peg and twine, mulch netting or liquid mulch binder).
26. Minimum side slopes of all exposed surfaces shall not be constructed steeper than 3:1 unless otherwise approved by the district.
27. Ditch is to be stabilized by an approved method according to the New Jersey Standards and may include watering with a solution of calcium chloride and water.
28. Adjacent properties shall be protected from excavation and land filling operations on the proposed site.
29. All erosion control methods to minimize exposed surfaces, where applicable.
30. All vegetative material shall be selected in accordance with American Standards for Nursery Stock of the American Association of the Nurseryman and in accordance with the New Jersey Standards.
31. Natural vegetation and species shall be retained where specified on the Landscaping Plan.
32. The soil erosion inspector may require additional soil erosion measures to be installed, as directed by the district inspector.

BASIN MAINTENANCE
In order to ensure that all retention and detention basins function properly, a maintenance program must be followed. The following are the minimum requirements for the maintenance of all basins.

1. Annual visual inspection of outlet structures and basins.
2. Annual inspection of outlet structures to include checking for obstructions of outfall pipes and the accumulation of silt and sediments.
 - a. Inspect the basins to include the removal of debris and accumulated particles such as silt and sediments.
3. For maintenance of vegetated basins:
 - a. Mowing of grass is required regularly to ensure the aesthetic quality of the site. All clippings shall be raked and bagged to avoid thatch buildup.
 - b. A dense turf, with extensive root growth, is encouraged to reduce erosion and enhance infiltration throughout the bottom and the side of the basin. Well-established turf of the floor and sides will grow through sediment deposits, thus forming a porous turf and preventing the formation of an impermeable layer.
 - c. Grasses of the fescue family are recommended for seeding, primarily due to their adaptability to dry sandy soils, drought resistance, hardiness, and resistance to herbivores and insects. Fescues will also permit some invertebrate bioturbation.
 - d. Seed type: A mixture of the following special water-tolerant seed will ensure a high quality grass for retention basins.

INGREDIENTS	
Mixture 8	SEEDING RATE
Fescue	2.1Lb./1,000 SF
Perennial Rye Grass	0.25Lb./1,000 SF
Kentucky Bluegrass	0.25Lb./1,000 SF
White Clover	0.10Lb./1,000 SF

- e. Fertilizing and liming: Bi-annually
Fertilize with 10-20-10 at a rate of 11lbs./1,000 SF
Lime with pulverizer dolomite limestone at a rate of 90lbs./1,000 SF
3. Long term Maintenance
 - a. In order to ensure proper function of all basins, every seven years each basin bottom shall be scarified to a depth of 4" to remove sediments and silts. Then 4" of topsoil must be added and resided.

Maintenance is the work required to keep structures in practice, or restore them to their original physical and functional condition. Maintenance as it applies to this situation should be divided into two stages; that which is necessary to allow for continuing performance of storm water controls during the construction period and long term maintenance following construction. Both stages are necessary for the life of the storm water structures and systems.

1. MINIMUM REQUIREMENTS FOR MAINTENANCE
a. TRENCHES/SEWALS
Trenches/sewers to be inspected for root or channel obstructions, bank failure, accumulation of silts and sediments, undesirable vegetation growth, rodents, and overall system failure.
b. OUTLET STRUCTURE/CONDUIT
Inspection of outlet structures and conduit to include checking for obstruction of pipe, accumulation of silts and sediments, cracking, corrosion, deterioration from freezing, salt or chemicals, excessive wear or damage from settlement.
c. SPILLWAYS/SIFTS/MANHOLES
Inspection to include checking for cracking, rodents, obstructions(silt/sediment, trash or other). Check any gates, racks, or grates, for corrosion, wear, or damage. Check for unauthorized modifications, tampering or vandalism.
d. LONG TERM MAINTENANCE
As noted, any basin, pipe, ditch, trench or inlet not functioning as designed will be thoroughly as prescribed. Any system that continues to remain inoperative through clearing debris and removal and repair of damaged components will be repaired or replaced.

All on-site retention facilities shall be the sole responsibility of the developer/owner, his assigns and/or heir. The responsibility shall include but not be limited to installation, inspection, and maintenance.

The primary mechanical equipment use in the Annual Maintenance of the Basins will be for lawn cutting. The exact type and size of this equipment is to be determined by the maintenance service under contract for the project.

Mulching is required on all seeding. It is defined as stabilizing exposed soils with non-vegetative materials. The purpose is to protect exposed soil surfaces from erosion damage and to reduce offsite environmental damage. Mulching provides temporary mechanical protection against wind and rainfall induced soil erosion until permanent vegetative cover may be established. This practice is applicable to areas subject to erosion, where the season and other conditions may not be suitable for growing. An erosion-resistant cover or where stabilization is needed for a short period until more suitable protection can be applied.

- a. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standards for Land Grading, pg 19-1.
- b. Install needed erosion control practices or facilities such as diversions, grade stabilization structures, channel stabilization measures, sediment basins, and waterways. See Standards 11 through 42.

a. Mulch materials should be unrotted small grain straw, hay free of seeds, or salt hay to be applied at the rate of 2.0 to 2.5 tons per acre (90 to 115 pounds per 1,000 square feet.)

- Asphalt emulsion is recommended at the rate of 600 to 1,200 gallons per acres. This is suitable for a limited period of time where travel by people, animals, or machines is not a problem.
 - Synthetic or organic soil stabilizers may be used under suitable conditions and in quantities as recommended by the manufacturer.
 - Wood-fiber or paper-fiber mulch at a rate of 1,500 pounds per acre may be applied by a hydroseeder.
 - Much netting such as paper, jute, excelsior, cotton, or plastic, may be used.
 - Woodchips applied uniformly to a minimum depth of 2 inches may be used. Woodchips will not be used on areas where flowing water could wash them away.
 - Gravel, crushed stone, or slag at the rate of 8 cubic yards per 1,000 SF applied uniformly to a minimum depth of 3 inches may be used. Size 2 or 3 (ASTM C-33) is recommended.
- b. Much netting should be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs depending upon the size of the area, steepness of slopes, and costs.
- Peg and Twine - Drive 8 to 10 inch wooden posts to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a cross-cross and a square pattern. Secure twine with two or three round turns.
 - Much Nettings - Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
 - Crimper (much anchoring tool) - A tractor-drawn implement, somewhat like a disc-harrow, especially designed to push or customer of the broadcast long mulch 3 to 4 inches into the soil as to anchor it and leave partial standing upright. This technique is limited to areas covered by a tractor, which must operate on the contour of slopes. Slay mulch rate must be 3 tons per acre. No tacking or adhesive agent is required.

- c. Liquid Emulsions – May be used to anchor salt hay, hay, or straw mulches. Application should be done at edges where wind catches the mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance. Applications should be made at edges where wind catches the mulch, in valleys, and at crests of banks.
- Use one of the following:
- (1) Emulsified asphalt – (SS-1, CS-2, MS-2, RS-1, RS-2, CS-1, and CRS-2). Apply 0.04 gal/sq yd, or 1/94 gal/acre on flat slopes less than 8 feet high. On slopes 8 feet or more high, use 0.075 gal/sq yd, or 363 gal/acre. These materials may be difficult to apply in some situations.
 - (2) Organic and Vegetable Based Binders – Naturally occurring, power based, hydrophilic materials that mixed with formulated salt and applied to mulch will create a bond between the mulch and the soil. These materials are not petroleum based and will not be a physical hazard and will not result in a phytotoxic effect or impede growth of turfgrass. Vegetable based binders should be applied at 0.04 gal/sq yd, or 1/94 gal/acre.
 - (3) High polymer synthetic emulsion, with water when diluted and following application to mulch, drying and curing shall not longer be soluble or dispersed in water. It shall be applied at rates weather conditions recommended by the manufacturer and remain tacky until cured.

1. Materials

- physical condition that may be harmful to plant growth. Soluble salts should not be excessive (conductivity less than 0.5 millimhos per centimeter. More than 0.5 millimhos may desiccate seedlings and adversely impact growth). Imported topsoil shall have a minimum of 1% organic matter and 1% water content.
- b. Topsoil substitute is a soil material which may have been amended with sand, silt, clay, organic matter, fertilizer or lime and has the appearance of topsoil. Topsoil substitutes may be utilized on sites with insufficient topsoil for establishing permanent vegetation. All topsoil substitutes shall be tested and approved by the County Engineer prior to use. Topsoil substitutes shall be composed of sand, silt, sand, silt, clay, organic matter, soluble salts and pH level.
- c. Seedling and sod establishment shall be performed as follows:
- Field preparation should be made to determine whether quantity and quality of surface soil justifies stripping. The where seedlings are to be planted should be determined before stripping at a rate determined by soil tests to bring the soil to approximately 6.5. A 4-6 inch stripping depth is common, but may vary depending on the particular soil.
 - Stockpiles of topsoil should be situated so as not to obstruct natural drainage or cause off-site environmental damage.
 - Topsoil shall be stored in accordance with the standards for topsoil storage set forth in the standards for Permanent (pp. 4-1) or Temporary (pp. 7-1) Vegetative Cover for Soil Stabilization. Weeds should not be allowed to grow on stockpiles.
- Site Preparation**
- a. The purpose of the optimal seedling period so as to minimize the duration and area of exposure of disturbed soil to erosion. Immediately proceed to establish vegetative cover in accordance with the specified seed mixture. Time is of the essence. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application and watering.
- b. As guidance for ideal conditions, topsoil should be tested for lime requirement. Limestone, if needed, should be applied to bring soil to a pH of 6.5 to 7.0. If the soil is not amended to the desired pH, the seedling period should be extended to 60 days.
- c. Prior to topsoiling, the subsoil shall be in compliance with the Standard for Land Grading, pp. 19-1.
- d. Employ needed erosion control practices such as diversions, grade stabilization structures, channel stabilization measures, sedimentation basins, etc. See Standards 11 through 42.
- Applying Topsoil**
- a. Topsoil should be handled only when it is dry enough to work without damaging soil structure, i.e., less than field capacity (see glossary). The form applied to the soil should be a minimum of 4 inches, firm in place. Alternative depths may be considered where special regional and/or industry design standards are appropriate such as on golf courses, sports fields, landfill capcovers, etc. Soils with a pH of 4.0 or less or containing iron sulfide shall be covered with a minimum depth of 12 inches of soil having a pH of 6.5 or greater.
- b. Pursuant to the requirements in Section 7 of the Standard for Permanent Vegetative Stabilization, the contractor is responsible to ensure that permanent vegetative cover becomes established on at least 80% of the soils to be stabilized with vegetation. Failure to achieve the 80% requirement may result in the contractor being liable for the cost of additional topsoiling and/or additional seedling, re-application of lime and fertilizers, and/or the addition of organic material (i.e. compost) as a top dressing. Such additional costs shall be based on the actual costs of the contractor as verified by Rutgers Cooperative Extension Service or other approved laboratory facilities qualified to test soil samples for agronomic purposes.

The following methods should be considered for dust control at the request of the Township Construction Code Official, or upon inspection by an S.C.D. official.

1. **Spray - On Adhesive** - On mineral soils (not effective on muck soils.) Keep traffic off these areas.

	Water Dilution	Type of Nozzle	Apply Gallons/Acre
Anionic asphalt emulsion	7:1	Coarse spray	1,200
Latex emulsion	12 1/2 :1	Fine spray	235
Resin in water	4:1	Fine spray	300

- 2. **Tillage** - To roughen surface and break clouds to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin blowing on windward side of site. Chisel-type spades spaced about 12 inches apart, and spring-toothed harrows are examples of equipment which may produce the desired effect.
- 3. **Sprinkling** - Site is sprinkled until the surface is wet.
- 4. **Barriers** - Solid board fences, snow fences, burlap fences, bales of hay and other materials are used to create windbreaks. Bales of hay and similar material can be used to create walls, bales of straw, burlap, or other material can be used to control air currents and soil blowing.
- 5. **Windbreaks** - Shelterbelts of trees and shrubs are planted in areas of a site that have the least wind exposure. **moist** but not cause or flakes fine enough to feed through commonly used spreaders, pollution or plant damage. If used on steeper slopes, then use on steeper slopes. Then use on steeper slopes, then use on steeper slopes to prevent washing into streams or accumulation around plants.
- 6. **Seals** - Cover surface with crushed stone or coarse gravel.
- 7. **Mulch** - Stabilization with approved mulches and vegetation cover being temporary or permanent.

Temporary Seeding		
Fertilizer	(10-20-10 or equivalent)	11 Lbs./1,000 SF
Limestone	(50% Calcium plus MgO)	90 Lbs./1,000 SF
Perennial Ryegrass	(<i>Lolium multiflorum</i>)	1 Lb./1,000 SF
Permanent Seeding		
Fertilizer	(10-20-10 or equivalent)	11 Lbs./1,000 SF
Limestone	(50% Calcium plus MgO)	90 Lbs./1,000 SF
Mixture B-15	Kentucky Bluegrass (Three Clover Blend)	0.9 Lbs./1,000 SF
	Hard Fescue	4.0 Lbs./1,000 SF
	Perennial Ryegrass	0.7 Lbs./1,000 SF

Note: Optimum seeding dates February 1 to April 30 and August 15 to October 30.

The grading plan and installation shall be based upon adequate topographic surveys and investigations. The plan is to show the location, slope, cut, fill and finish elevation of the surfaces to be graded. The plan should also include auxiliary practices for safe disposal of runoff water, slope stabilization, erosion control and drainage. Facilities such as waterways, ditches, diversions, grade stabilization structures, retaining walls and subsurface drains should be included where necessary.

Erosion control measures shall be designed and installed in accordance with the applicable standard contained herein.

The development and establishment of the plan shall include the following:

1. The cut face of earth excavations and fills shall be no steeper than the safe angle of repose for the materials encountered and fill enough for proper maintenance.
2. The permanently exposed faces of earth cuts and fills shall be vegetated or otherwise protected from erosion.
3. Provisions shall be made to safely conduct surface water to storm drains or suitable water courses and to prevent surface runoff from damaging outcrops and fill slopes.
4. Subsurface drainage is to be provided in areas having a high water table, to intercept seepage that would adversely affect slope stability, building foundations or create undesirable wetness. See Standard for Subsurface Drainage, pg. 32-1.
5. Adjoining property shall be protected from excavation and filling operations.
6. Fills shall not be placed adjacent to the bank of a stream or channel, unless provisions are made to protect the hydraulic, biological, aesthetic and other environmental functions of the stream.

Subgrade soils prior to the application of topsoil shall be free of excessive compaction to a depth of 6.0 inches to enhance the establishment of permanent vegetative cover.

- This section of this Standard addresses the potential for excessive soil compaction in light of the intended land use, testing for the active soil compaction where permanent vegetation is to be established and mitigation of excessive soil compaction when appropriate.
- Due to use or setting, certain disturbed areas will not require compaction remediation including, but not limited to the following:
1. Within 20 feet of building foundations with basements, 12 feet from slab or crawl space construction.
 2. Where soils are to be replaced with topsoil, such as roads, parking lots and driveways (including gravel surfaces), bicycle paths or pedestrian walkways (sidewalks etc)
 3. Airports, railways or other transportation facilities
 4. Areas where the local government specified soil classes, including golf courses, landfills, wetland restoration, septic disposal fields, wetland ponds, etc.
 5. Areas governed or regulated by other local, state or federal regulations which dictate soil conditions
 6. Brownfields (capped uses), urban redevelopment areas, in-fill areas, recycling yards, junk yards, quarries and other areas where remediation or safe operation is required
 7. Portions of a site where no heavy equipment travel or other disturbance has taken place
 8. Areas receiving temporary vegetative stabilization in accordance with Standard
 9. Where the area available for remediation practices is 500 square feet or less in size.
 10. Locations containing shallow (close to the surface) bedrock conditions.

Areas of the site which are subject compaction testing and/or mitigation shall be graphically denoted on the certified soil erosion control plan.

Soil compaction remediation or testing to prove remediation is not necessary will be required in areas where permanent vegetation is to be established that are not otherwise exempted above. Testing method shall be selected, and soil compaction testing shall be performed in accordance with the following criteria:

- a) Areas of the site where soil compaction testing is required shall be identified by the contractor/owner as part of the bid process with an overall limit of disturbance of up to one (1) acre and at a rate of two (2) tests per acre of the overall limit of disturbance for larger areas which shall be evenly distributed over the area of disturbance subject to testing. Tests shall be performed in areas where there is no existing vegetation.
- b) The maximum number of test locations shall be determined based upon the maximum thresholds indicated for the testing method; the contractor/owner shall have the option to perform compaction mitigation over the entire project area if it is determined that the maximum thresholds cannot be achieved; the limits of excessive compaction whereverupon only the excessively compacted areas would require compaction mitigation.

Soil compaction testing is not required if/when subsoil compaction remediation (scarification/tilling) ($\leq 6"$ minimum depth) or similar is performed.

1. Probing Wire Test Method
This test shall be conducted with a firm wire (15-16 gauge) steel wire - e.g. survey mark flag, straight wire stock, etc., 18 to 20 inches in length. The wire shall be firmly and evenly embedded on the wire. Conduct flag tests by holding the wire flag near the flag, and push vertically into the soil at several different locations in the field to the lesser of a 6 inch depth or the depth at which it bends due to resistance in the soil. Record the depth at which it bends due to resistance in the soil. The wire should penetrate without bending or deforming at least 6" into the soil. If the wire bends or deforms at a depth less than 6 inches, the soil is not sufficiently compacted. The wire should be pushed into the soil repeatedly in the same general area. If the test is successful the soil is not excessively compacted. If the wire is difficult to insert (wire bends or deforms prior to reaching 6 inches in depth) the soil may be excessively compacted and compaction mitigation or further testing via method 3 or 4 below is required, the choice of which is at the contractor's discretion.

2. Handheld Soil Penetrometer Test Method
This test shall be conducted based on the Standard Operation Procedure (SOP) #RCE2011-001, prepared by the Rutgers Cooperative Extension, Implemented June 1, 2010, last revised February 26, 2011. A result of less than or equal to 300 psi shall be considered passing. If the result is greater than 300 psi, the soil is not sufficiently compacted and compaction mitigation or further testing via method 3 or 4 below is required, the choice of which is at the contractor's discretion.

- ### 3. Tube Bulk Density Test Method
- This test shall be certified by a New Jersey Licensed Professional Engineer utilizing only undisturbed samples (reconstitution of the sample not permitted) for Soil Bulk Density Tests as described in the USDA NRCS Soil Quality Test Kit Guide, Section 1-4.1 July 2001. When the texture of the soil to be tested is a sand or loamy sand and lack of soil cohesion or the presence of large amounts of coarse fragments, roots or worm channels present the taking of undisturbed samples, this test shall not be used.
- If the soil texture is loam or silty loam, the samples shall be 10 percent (10%) of the samples shall be examined for the following defects:
- Cracks, worm channels, large root channels or poor soil tube contact within the samples;
 - Large pieces of gravel, roots or other foreign objects
 - Smearing or compression of the upper or lower surface of the samples
- If any of the defects described in 3 (ii) above are found, the defective core(s) shall be discarded
- and the test repeated using a new replace core for each defective replace sample. The bulk density (defined as the weight of dry soil per volume) results shall be compared with the Maximum Dry Bulk Densities in Table 19-1. A result of less than or equal to the applicable maximum bulk density shall be acceptable maximum bulk density. If the result is greater than the maximum bulk density the soil shall be considered excessively compacted and compaction mitigation is required.
- ### 4. Nuclear Density Test Method
- This test shall be certified by a New Jersey Licensed Professional Engineer and conducted by a nuclear gauge certified inspector pursuant to ASTM D6938. The bulk density measurement results shall be compared with the Maximum Dry Bulk Densities in Table 19-1. A result of less than or equal to the applicable maximum bulk density shall be acceptable maximum bulk density. If the result is greater than the maximum bulk density the soil shall be considered excessively compacted and compaction mitigation is required.

Soil Type/Texture	Bulk Density (g/cc)
Coarse, Medium and Fine Sands and Loamy Sands	1.80
Very Fine Sand and Loamy Very Fine Sand	1.77
Sandy Loam	1.75
Loam, Sandy Clay Loam	1.70
Clay Loam	1.65
Sandy Clay	1.60
Silt, Silt Loam	1.55
Silty Clay Loam	1.50
Silty Clay	1.45
Clay	1.40

Source: USDA Natural Resource Conservation Service, Soil Quality Information Sheet, Soil Quality Resource Concerns: Compaction, April 1995. Additional testing methods which conform to ASTM standards and specifications, and which produce a dry weight, soil bulk density measurement may be allowed subject to District approval.

It subgrade soils are determined to be excessively compacted by testing, as identified above, procedures shall be used to mitigate excessive soil compaction prior to placement of topsoil and establishment of permanent vegetative cover. Restoration of compacted soils shall be through deep scarification (6" minimum depth) where there is no danger to underground utilities (cables, irrigation systems, etc.) or in the alternative, another method as specified by a New Jersey Licensed Professional Engineer.

- Topsoil is to be stripped and stockpiled in amounts necessary to complete final grading of all exposed areas requiring topsoil. See Standard for Topsoiling.
- Fill material is to be free of brush, rubbish, timber, logs, vegetative matter and stumps in amounts that will be detrimental to constructing a stable fill.
- All structural fills shall be compacted as determined by structural engineering requirements for their intended purpose and as required to reduce slipping, erosion or excessive saturation.
- All disturbed areas shall be left with a neat and finished appearance and shall be protected from erosion. See Standards for Permanent Vegetative Cover for Soil Stabilization.
- Trees to be retained shall be protected if necessary in accordance with the Standard for Tree Protection During Construction.

Technical drawing illustrating the detail of a silt fence. The drawing includes a cross-section view and a plan view.

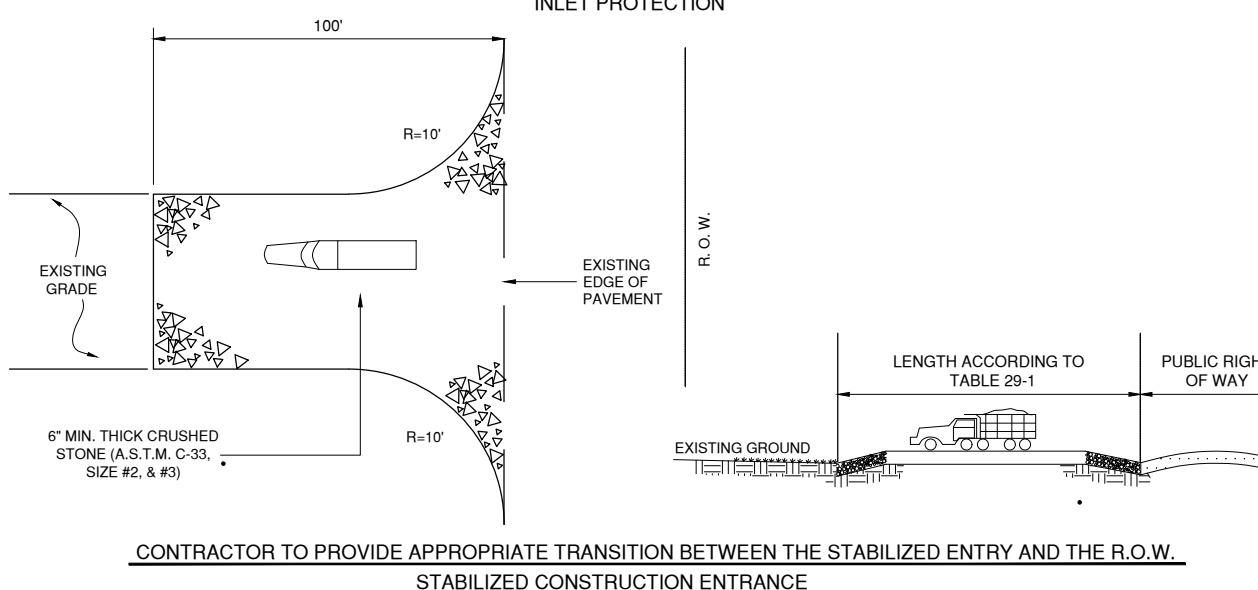
Cross-section view labels:

- FENCE POST 6" ON CENTER
- FABRIC SECURED TO POST WITH METAL FASTENERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC
- SILT ACCUMULATION
- 2" MIN.
- 6"
- 2" MIN.

Plan view labels:

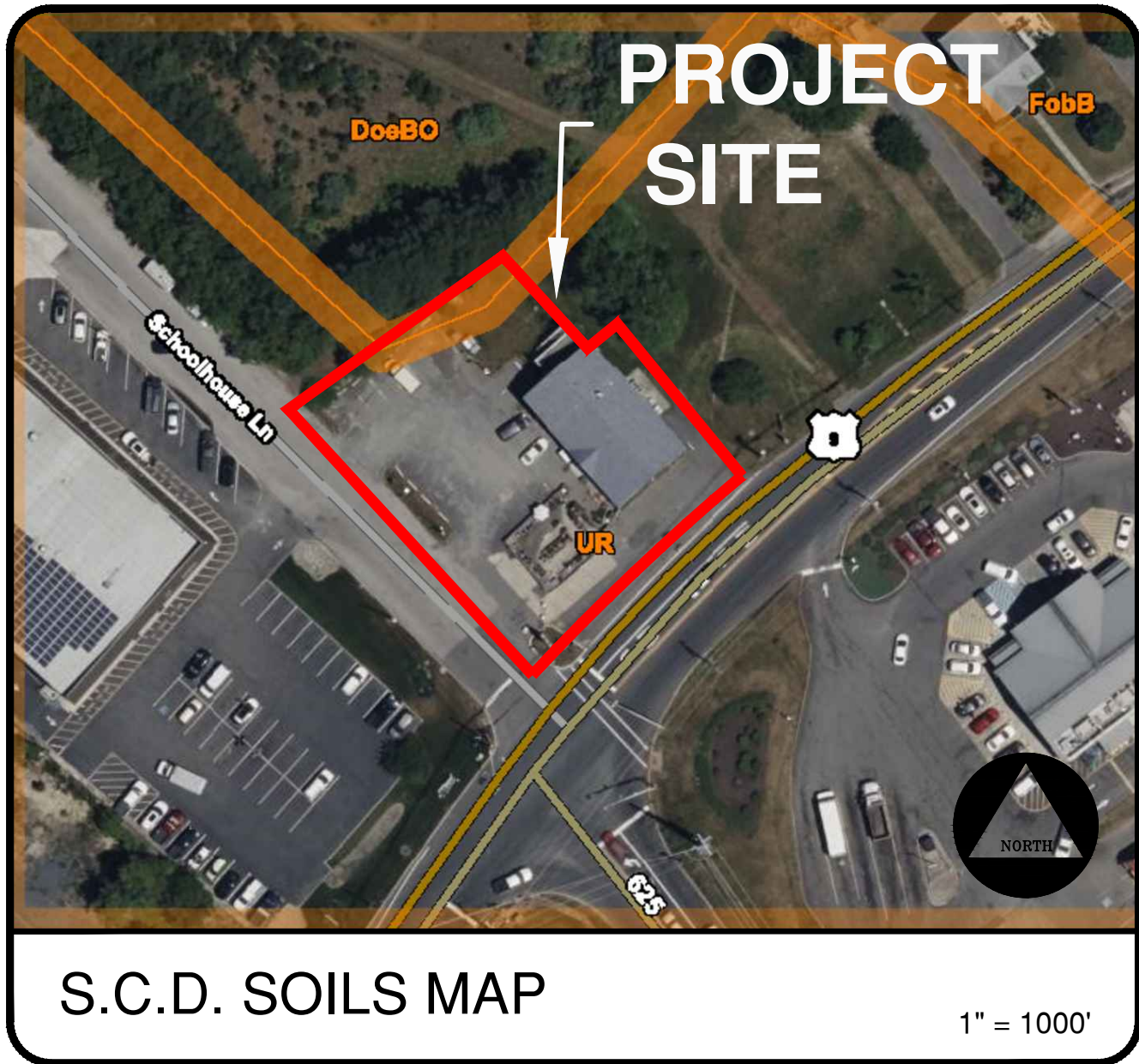
- SILT FENCE DETAIL
- SEDIMENT TRAPPED BY FILTER
- GRAVEL FILTER TO CONSIST OF 2" - 3" DIA. COARSE AGGREGATE PILED AROUND THE PERIMETER OF THE INLET GRATE, 4" HIGH
- FINISHED GRADE
- WIRE MESH WITH 1/2" OPENINGS (10 GA.) TO BE STRETCHED OVER ENTIRE INLET AS SHOWN. HARDWARE CLOTH CAN BE UTILIZED IN PLACE OF WIRE
- PROPOSED CONCRETE CURB

NOTE: IF STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION THE STONE MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED



The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto roadways. This may require periodic dressing with additional stone or additional length as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto roadways (public or private) or other impervious surfaces must be removed immediately.

Where accumulation of dust/sediment is inadequately cleaned or removed by conventional methods, a power broom or street sweeper will be required to clean paved or impervious surfaces. All other access points which are not stabilized shall be blocked off.

[illegible]

PHASE	OPERATION	TIME PERIOD
A.	ESTABLISH EROSION CONTROL MEASURES	2 DAYS
B.	SITE CLEARING	5 DAYS
C.	ROUGH GRADING	5 DAYS
D.	CONSTRUCT STORM WATER BASIN INCLUDING VEGETATIVE STABILIZATION	10 DAYS
E.	CONSTRUCT SANITARY SEWER SYSTEM & WATER SYSTEM	5 DAYS
F.	CONSTRUCT STORM DRAINAGE STRUCTURES	5 DAYS
G.	FINE GRADE AND CONSTRUCT STONE BASE	5 DAYS
H.	CONSTRUCT DRAINAGE SWALES	5 DAYS
I.	SOIL COMPACTION TESTING PRIOR TO THE INSTALLATION OF TOPSOIL.	1 DAY
J.	RESTORATION AS REQUIRED	N/A
K.	PERFORM TEMPORARY SEEDING AS NECESSARY	2 DAYS
M.	PERFORM PAVING AND CONSTRUCT SIDEWALKS	5 DAYS
N.	PAVING BUILDING FOUNDATION	90 DAYS
P.	PERFORM PERMANENT SEEDING AND LANDSCAPING	5 DAYS

LAND COVER

A. Total Area of Site: 0.53 Acres

B. Present Cover: Impervious parking lot with building and grassed areas

C. Total Area of Disturbance: 0.37 Acres

D. Adjacent Site Conditions: Grassland & Woods

All soil erosion and sediment control measures and facilities shall be the sole responsibility of the developer/owner. The responsibility shall include, but not be limited to installation, inspection, and maintenance of conditions during and following construction.

APPLICANT/OWNERS:
Ocean View Petroleum, LLC
3938 South main Road, Vineland, NJ 08360
Phone 856-825-7600

EDA Engineering
Design
Associates, P.A.

Engineers, Environmental Planners, Landscape Architects

CAMBRIDGE PROFESSIONAL OFFICES
5 Cambridge Drive Ocean View New Jersey 08220
(609) 390-0332 • Fax (609) 390-9204 • www.engineeringdesign.com • CERTIFICATE OF AUTHORIZATION# 24G027970500

SOIL EROSION & SEDIMENT CONTROL NOTES

BLOCK 245 LOT 55
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

STATE OF NEW JERSEY
VINCENT C. ORLANDO
No. 32498
PROFESSIONAL ENGINEER

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REVISION	DATE	BY

DATE: 9/14/2022	DRAWN BY: MSB
SCALE: AS NOTED	CHECKED BY: VCO
PROJECT #: 9640	SHEET: 5 OF 7

GENERAL INFORMATION

PLANTING LEGEND

TREES

ABRV	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	QTY
PC	PYRUS CALLERYANA	BRADFORD PEAR	1.5" CAL.	B&B	3
CF	CORNUS FLORIDA CONSTELLATION	WHITE DOGWOOD CONSTELLATION	6'-7'	B&B	1

SHRUBS & PERENNIALS

IG	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	#5	CONT.	3
SB	SPIREA X BUMALDA 'ANTHONY WATERER'	ANTHONY WATERER SPIREA	#3	CONT.	6

PLANTING NOTES

1. PLANT MATERIALS SHALL BE FURNISHED AND INSTALLED AS INDICATED INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS AND CLEAN UP.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING CORRECT GRADES AND ALIGNMENT.
3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY: HAVE NORMAL GROWTH HABITS, WELL DEVELOPED BRANCHES, DENSELY FOLIATED; VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.
4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.
5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST TWO (2) YEARS FOR TREES AND A MINIMUM OF TWO GROWING SEASONS FOR SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.
6. IN SO FAR AS IT IS PRACTICABLE, PLANT MATERIALS SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT TO BE PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE (3) DAY PERIOD AFTER DELIVERY.
7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60 (REV 1980) 'AMERICAN STANDARD FOR NURSERY STOCK' AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
8. ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACKFILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL, FREE OF DRY SOIL, STIFF CLAY, LITTER, ETC., SHALL BE USED FOR PLANTING.
9. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME AS TO DAMAGE THE BARK AND BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.
10. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTABLE LOCAL PRACTICE.
11. NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO (2) FEET FROM EXISTING STRUCTURES AND SIDEWALKS.
12. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, AFTER SETTLEMENT A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PIT.
13. ALL INJURED SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING. IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/2" OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER OF TREES MUST NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED.
14. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. CUT OVER 3/4" IN DIAMETER SHALL BE PAINTED WITH SUITABLE TREE PAINT.
15. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE GUIED. SMALLER TREES SHALL BE STAKED. GUYING WIRES AND STAKES SHALL BE INSTALLED AS INDICATED.
16. THE TRUNKS OF ALL TREES SHALL BE WRAPPED AS SOON AS POSSIBLE AFTER PLANTING ACCORDING TO STANDARD PROCEDURES AND AS INDICATED.

PLANTING NOTES

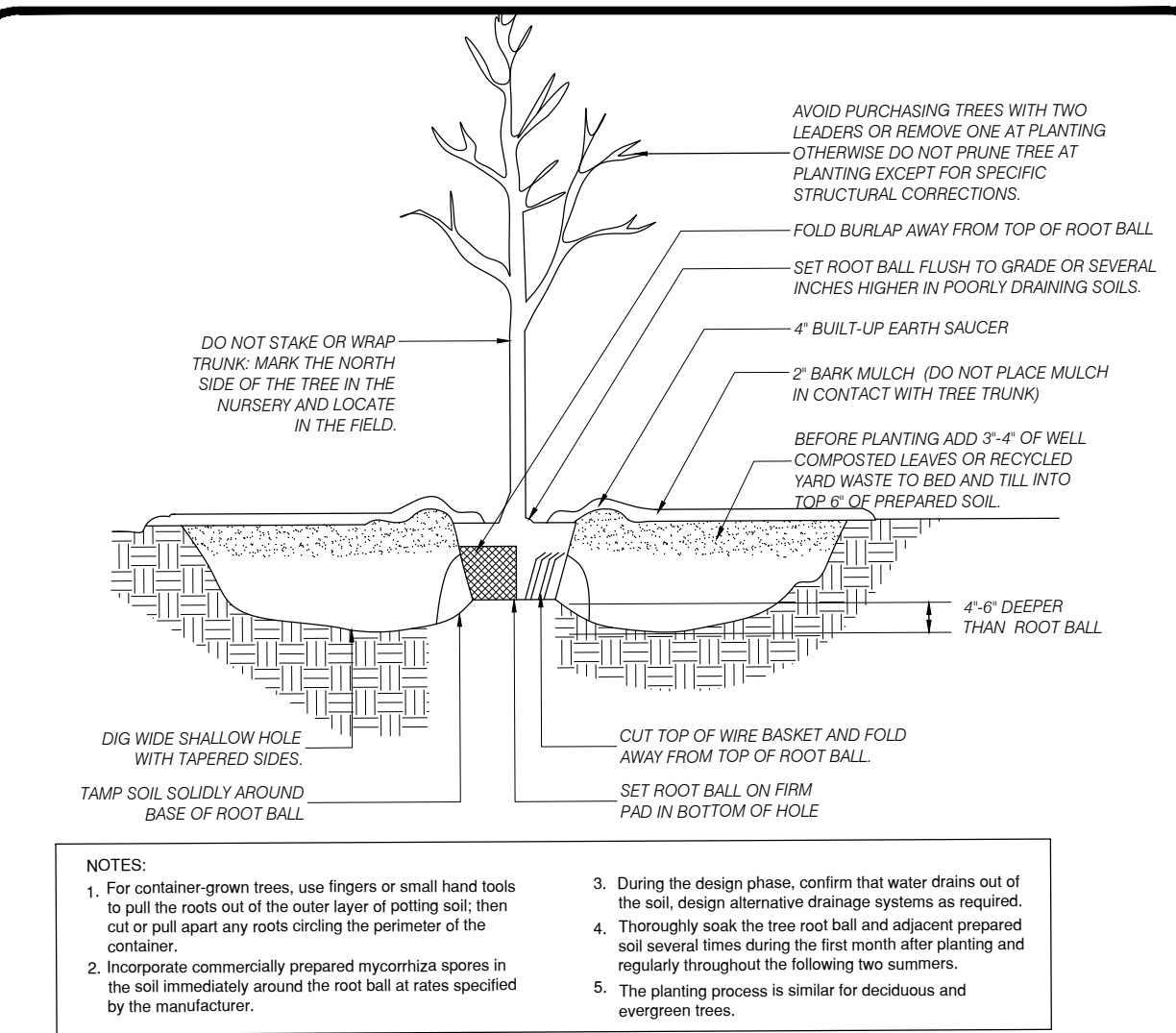
N.T.S.

LANDSCAPE CONTRACTOR NOTES

1. DRAWINGS TO BE SCALED FOR PURPOSES OF LOCATING SOIL BERMS, PLANT MATERIAL, PLANTING BEDS, GROUND COVER AREAS AND OTHER SITE AMENITIES SHOWN. DRAWINGS ARE DIAGRAMATIC; PLANT MATERIAL SUBJECT TO FIELD ADJUSTMENT.
 2. ALL PLANT MATERIAL TO BE SET IN PREPARED MULCH BEDS. FINAL BED LINES TO BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT OR REPRESENTATIVE.
 3. ALL PLANT MATERIAL TO BE IRRIGATED.
 4. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLANT MATERIAL QUANTITIES. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. PLAN HOLDS PRECEDENT.
- GRASSES
AREAS TO BE SEEDED SHALL CONSIST OF THE FOLLOWING SEED MIXTURES TO INSURE A HIGH QUALITY GRASS.
- REBEL 1 TALL FESCUE - 8 LBS PER 1000 SF
ECLIPSE KENTUCKY BLUE GRASS - 4 LBS PER 1000 SF
- FERTILIZING AND LIMING SHALL BE COMPLETED PRIOR TO SEEDING LAWN AREAS
- PLANTING BED - TO BE CONSTRUCTED AS SHOWN ON PLAN. USE THE FOLLOWING SPECIFICATIONS OR AN APPROVED EQUAL.
- A. MULCH - BEDS TO BE FILLED WITH A 4" LAYER OF LICORICE ROOT MULCH (RIGHT DRESS INC.)
B. WEED BARRIER - MULCH TO BE PLACED OVER TERRA TOP LS WEED CONTROL FABRIC OR 4 MIL. BLACK POLYETHYLENE.
C. EDGING - PLANTING BED TO BE EDGED WITH BLACK DIAMOND POLYETHYLENE BED DIVIDER (VALLEY VIEW SPECIALTIES CO.)

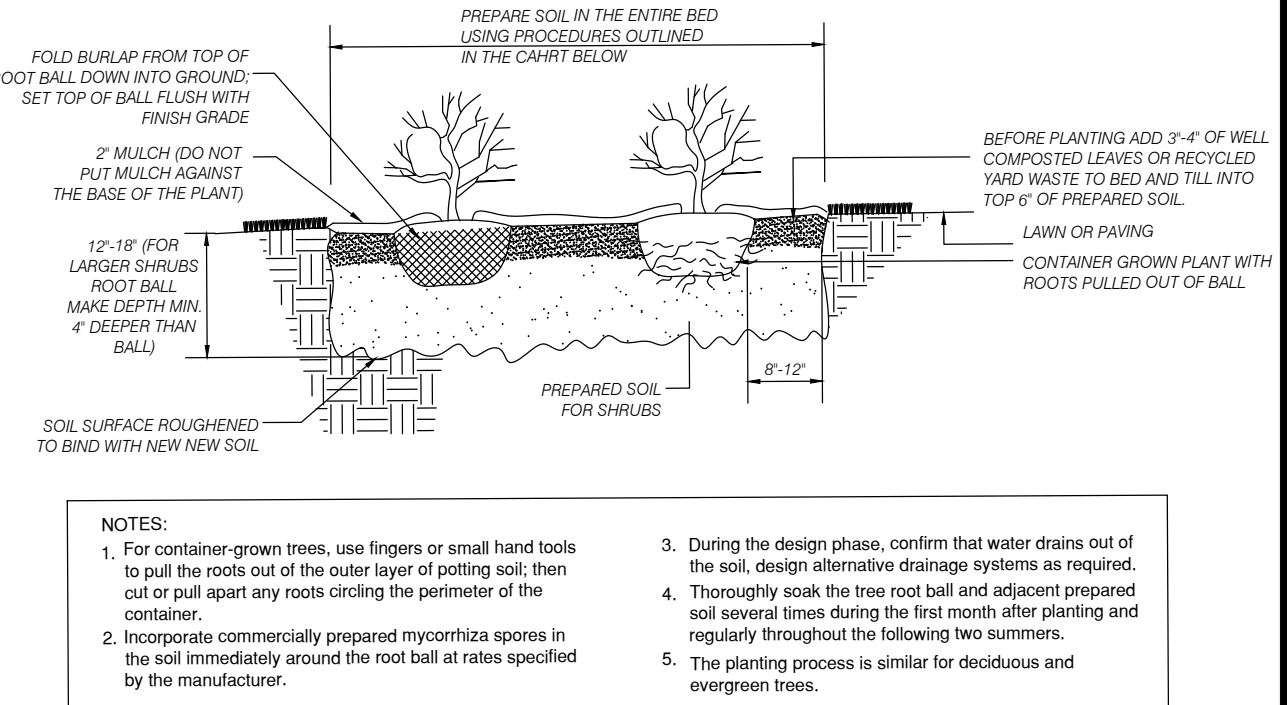
CONTRACTOR NOTES

N.T.S.



DECIDUOUS TREE PLANTING DETAIL

N.T.S.

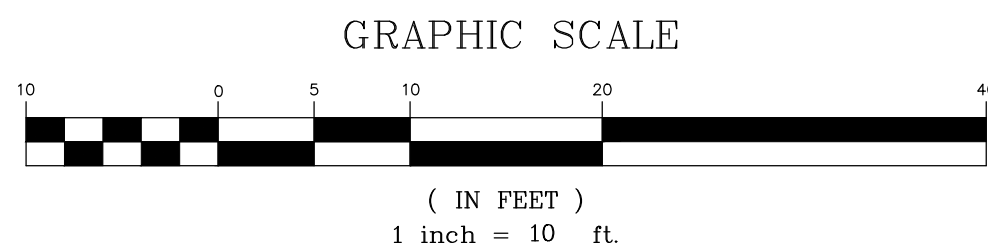
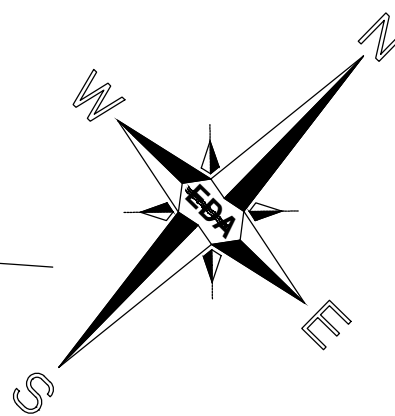


SHRUB PLANTING DETAIL

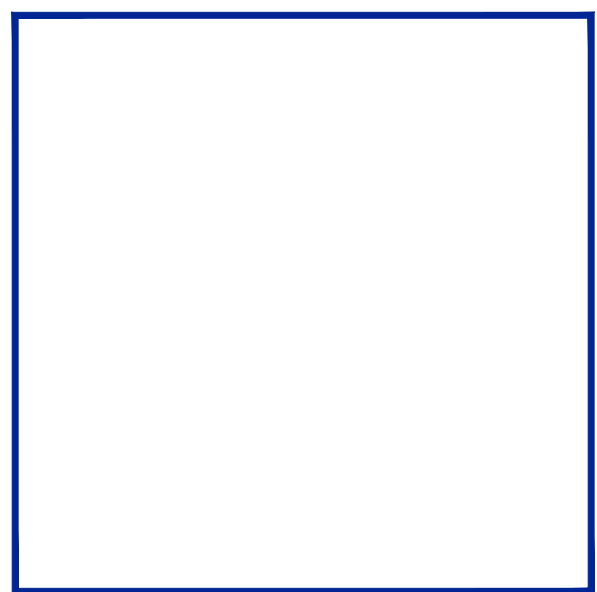
N.T.S.

NJ HIGHWAY ROUTE 9

(66' R.O.W.)



LIGHTING & LANDSCAPE PLAN



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LANDSCAPING & LIGHTING PLAN
BLOCK 245 LOT 55
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

VINCENT C. ORLANDO

PROFESSIONAL ENGINEER
N.J.P.E. LIC. #32498

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Engineers - Landscape Architects - Planners

