

CATANOSO FAMILY LIMITED PARTNERSHII 1917 RT 9 N CAPE MAY COURT HOUSE, NJ 08210 1917 RT 9

PEDRONI, RICHARD 385 E WHEAT RD VINELAND, NJ 1877 RT 9

CONECTIV REAL ESTATE DEPARTMEN 1870 ROUTE 9, LLC 2300 DUNE DR AVALOH, NJ 1870 RT 9 FARACE, PHILIP J & LORI A 1914 RT 9 N CAPE MAY CH_T NJ 08 1914 RT 9 PUBLIC SERVICE ELECTRIC & GAS CO. BRAUN, THOMAS & LISA PO BOX 367

AVALON, NJ 1920 RT 9, UNIT A

ATTN: MICHAEL KENT

CN-600 1035 PARKWAY AVE TRENTON, NJ 08625-0600

CAPE AMY COURT HOUSE, NJ 08210

STATE OF NJ-DOT

DATE: September 1, 202 OWNERS NAME: DKM ASSOCIATES LP

XFINITY STORE BY COMCAST CAPE MAY COURT HOUSE, NJ 08210

PROPERTY OWNERS LIST WITHIN 200'

General Notes

- Owner/Applicant: Zemac CM, LLC c/o David Szeker 222 Clinton Street APT 18 Hoboken, NJ 07030
- 2. The project site is known as Block 262, Lot 1.03 as shown on the Township of Dennis Tax Map, Plate No. 28. It is located at 1910 Route 9. It is 17.27 acres.
- 3. The property is located in both the CVC Clermont Village Center and R3 Rural Density Residential Zoning Districts. It is currently vacant / wooded.
- 4. It is the intent of the applicant to construct the following:
- Phase 1 4 parking spaces, associated drives, 34,680 SF of self storage unit space with 400 SF manager's office, and five (5) stormwater basins
- Phase 2 34,400 SF of self storage unit space,15,000 SF building with 8 units for contractor workshop, 32 parking spaces and drives
- 5. Stormwater runoff generated by the development will be stored in a series of
- 6. Multiple uses are not permitted in the CVC Zoning District. The applicant is seeking Preliminary and Final major Site Plan Approval. a Use Variance for the proposed uses have been obtained persuant to resolution 2021-20.
- 7. Any concrete curb or sidewalk and/or asphalt pavement disturbed within the right-of-way shall be repaired in kind.
- 8. All traffic signs, utility poles, mailboxes and traffic safety devices moved during construction shall be reinstalled in their proper location.
- 9. This application requires approval 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 New Jersey Department of Environmental Protection (Wetland, LOI)

GENERAL NOTES

ZEMAC CM, LLC **MAJOR SITE PLAN**

BLOCK 262, LOT 1.03 TOWNSHIP OF DENNIS CAPE MAY COUNTY, NEW JERSEY

Survey Information

Outbound and topographic survey information was taken from a plan entitled "Survey of Premises, Block 262, Lot 1.03, Township of Dennis, Cape May County, New Jersey" prepared by Kates Schneider Engineering, LLC, 215 Route 9 South, Marmora, NJ; Gregory Schneider, NJPLS. The survey is dated August 16, 2021 last revised 4/5/22. 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.

CONTRACTOR NOTES

SCHEDULE OF SHEETS	SHEET NUMBER	ORIGINAL DATE	LAST REVISIO
COVER SHEET		3/10/22	6/13/22
EXISTING CONDITIONS PLAN	. 2 OF 12	3/10/22	6/13/22
SITE PLAN	. 3 OF 12	3/10/22	6/13/22
GRADING AND DRAINAGE PLAN	. 4 OF 12	3/10/22	6/13/22
SOIL EROSION AND SEDIMENT CONTROL PLAN	. 5 OF 12	3/10/22	6/13/22
SOIL EROSION AND SEDIMENT CONTROL NOTES	. 6 OF 12	3/10/22	6/13/22
LANDSCAPING AND LIGHTING PLAN	. 7 OF 12	3/10/22	6/13/22
LANDSCAPE NOTES & DETAILS	. 8 OF 12	3/10/22	6/13/22
NJDOT PLAN	. 9 OF 12	3/10/22	6/13/22
NJDOT TRAFFIC CONTROL PLAN	. 10 OF 12	3/10/22	6/13/22
ENGINEERING DETAILS	11 OF 12	3/10/22	6/13/22
ENGINEERING DETAILS	12 OF 12	3/10/22	6/13/22

Required	Existing	Proposed	Variance
1 acre			No
			No*
			No
	n/a		No*
	n/a		No
	n/a		No
	n/a		No
60%	n/a	31.8%	No
			No
			No*
20'	n/a	30'	No
15 spaces			
17 spaces			
32 spaces	n/a	32 spaces	No
2 space			
70 spaces			
72 spaces	n/a	4 spaces	No*
00.05	/	00.05	NI-
32 SF	n/a	32 SF	No
		0'	
25' 50'	n/a n/a	8' 10'	No No*
	1 acre 150' 200' 0'-8' 30' 55' 35% 60% 30' 100' 20' 15 spaces 17 spaces 2 space 70 spaces 72 spaces	1 acre 17.27 acres 150' 143.9' 200' 543' 0'-8' n/a 30' n/a 55' n/a 60% n/a 30' n/a 100' n/a 20' n/a 15 spaces 17 spaces 12 space 70 spaces 72 spaces n/a	1 acre 17.27 acres 17.27 acres 150' 143.9' 143.9' 200' 543' 543' 0'-8' n/a 646' 30' n/a 42.5' 55' n/a 146.76' 35% n/a 11.23% 60% n/a 31.8% 30' n/a <30'

ZONING INFORMATION

*Variance granted persuant to resolution 2021-20



6/13/2022 MSB

DATE

REV. PER DENNIS TWP SUBMISSION

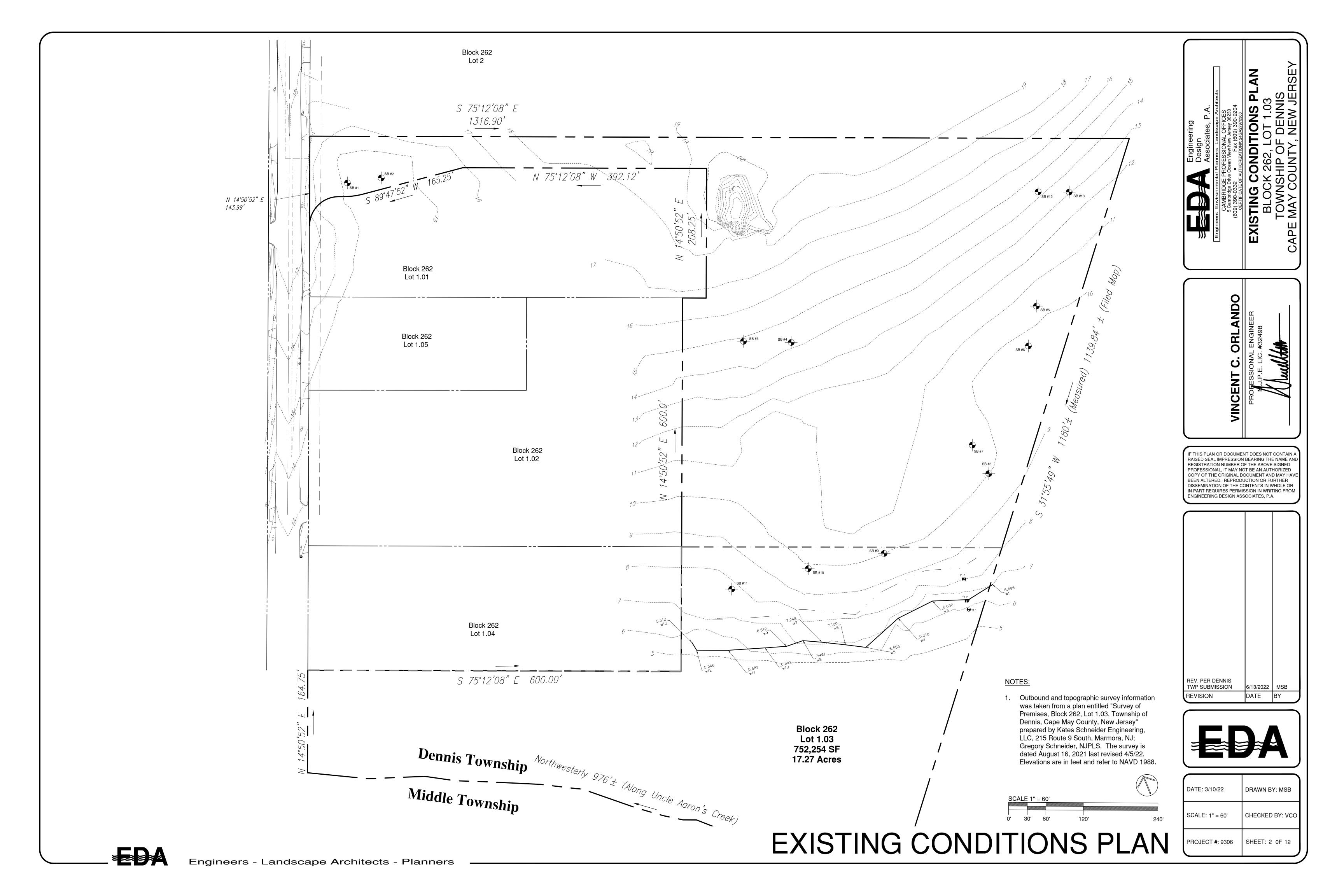
F THIS PLAN OR DOCUMENT DOES NOT CONTAIN REGISTRATION NUMBER OF THE ABOVE SIGNED

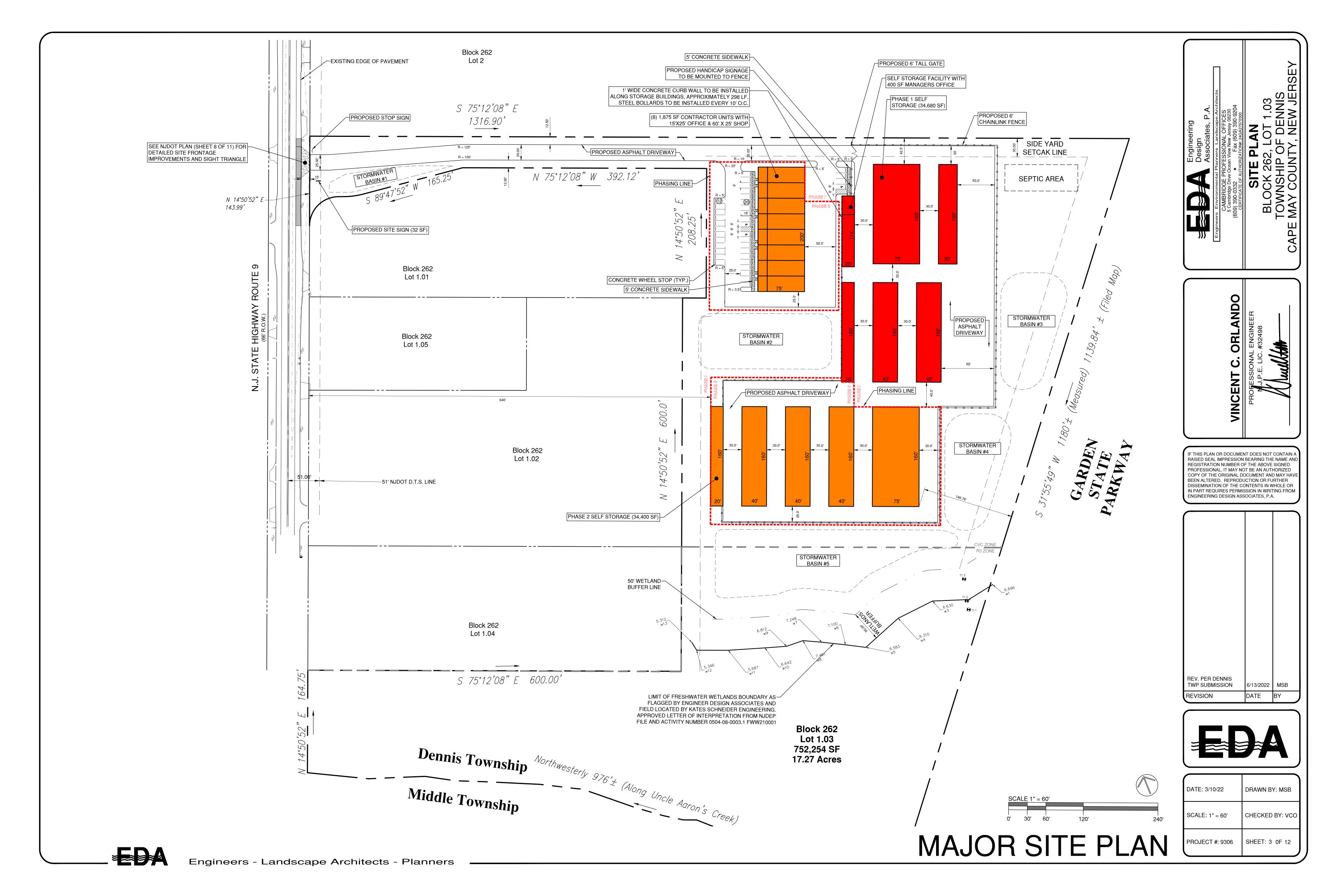
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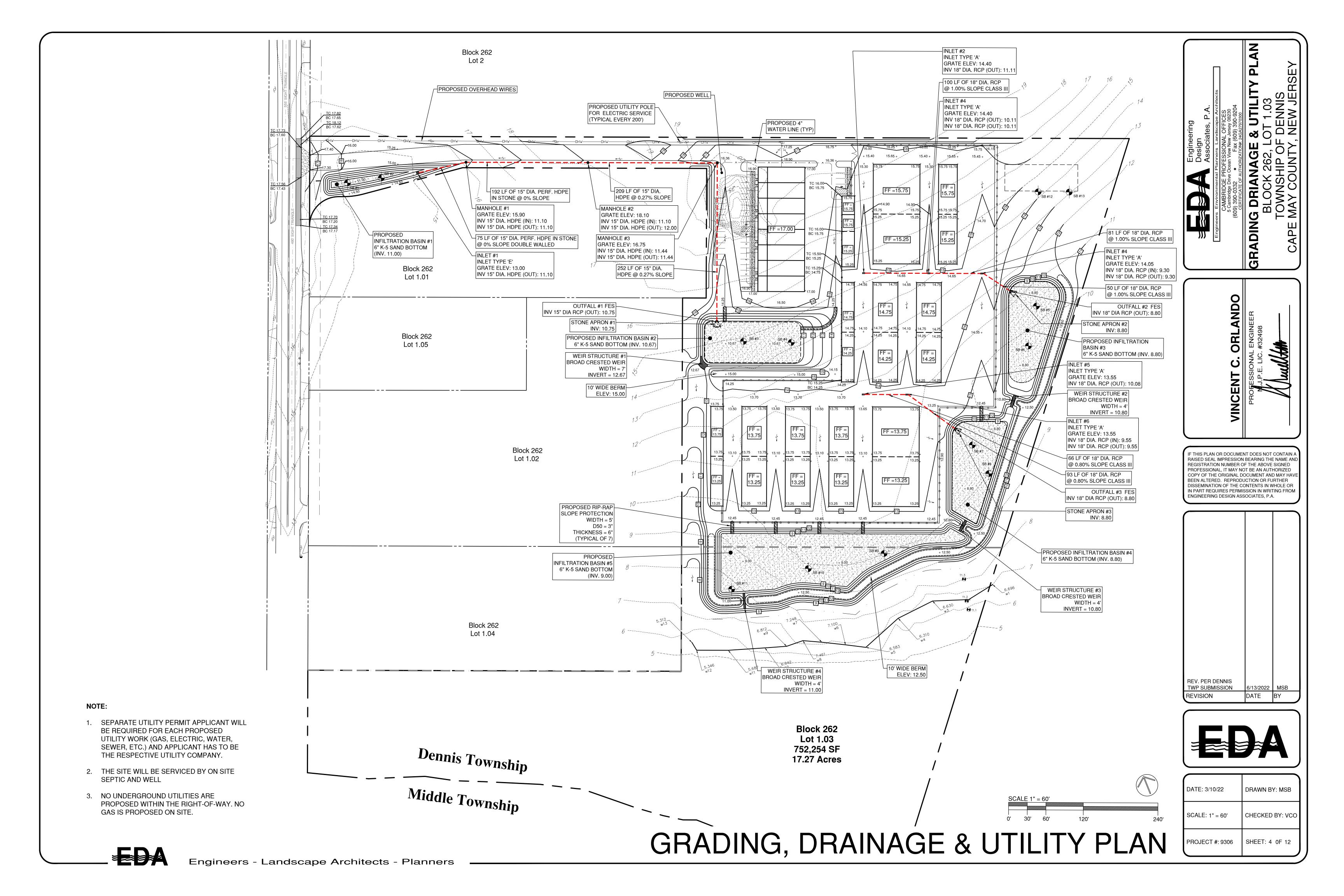
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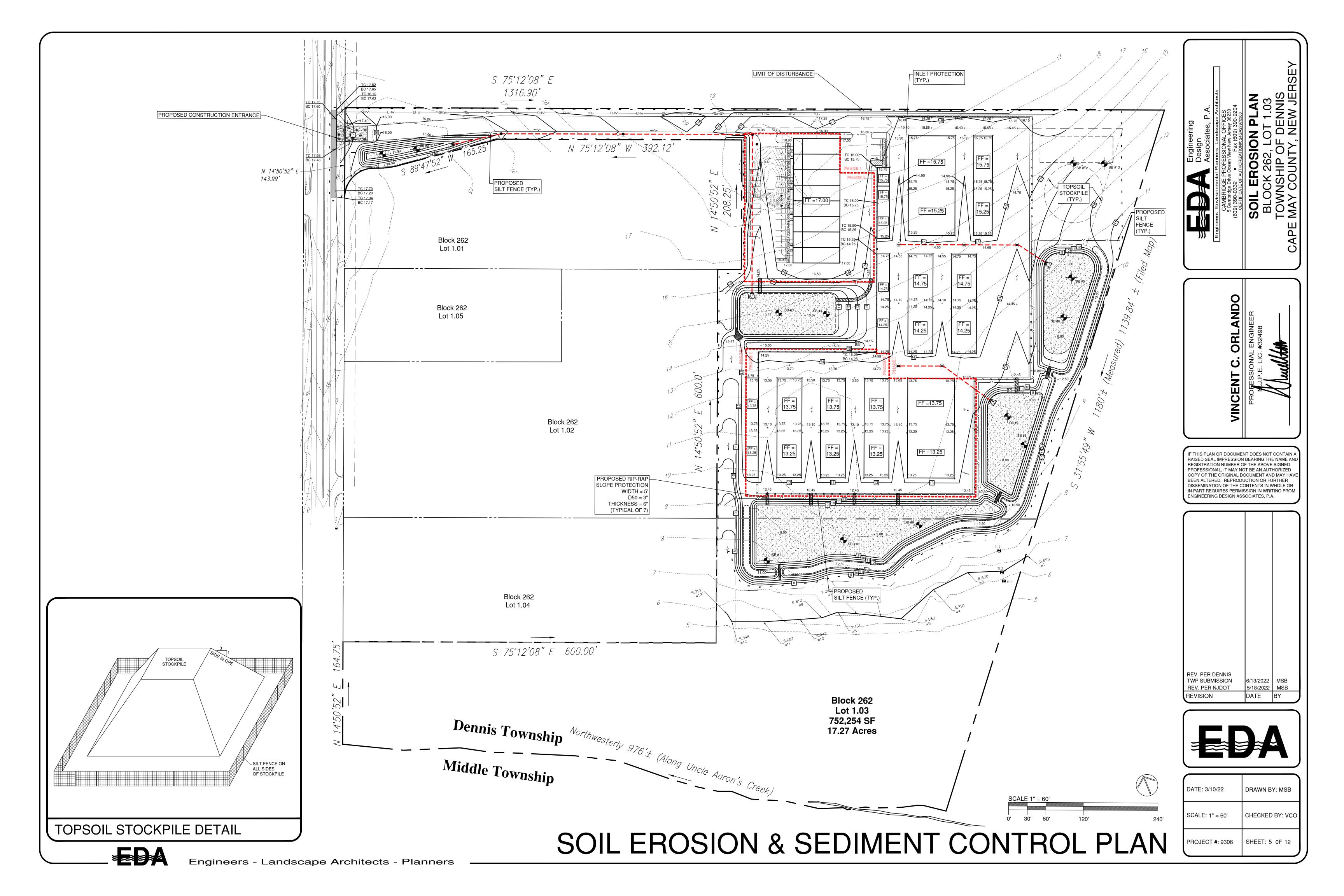
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_	PROJECT #: 9306	SHEET: 1 0F 12

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EXISTING CONDITIONS PLAN	2 OF 12	3/10/22	6/13/22		
SITE PLAN	3 OF 12	3/10/22	6/13/22		
GRADING AND DRAINAGE PLAN	4 OF 12	3/10/22	6/13/22		
SOIL EROSION AND SEDIMENT CONTROL PLAN	5 OF 12	3/10/22	6/13/22	TOWNSHI	P OF DENNIS APPROVAL
SOIL EROSION AND SEDIMENT CONTROL NOTE	S 6 OF 12	3/10/22	6/13/22		
ANDSCAPING AND LIGHTING PLAN	7 OF 12	3/10/22	6/13/22	Chairman	Date
ANDSCAPE NOTES & DETAILS	8 OF 12	3/10/22	6/13/22		2
NJDOT PLAN	9 OF 12	3/10/22	6/13/22	Secretary	Date
NJDOT TRAFFIC CONTROL PLAN	10 OF 12	3/10/22	6/13/22		
ENGINEERING DETAILS	11 OF 12	3/10/22	6/13/22	Engineer	Date
ENGINEERING DETAILS	12 OF 12	3/10/22	6/13/22		









SOIL EROSION AND SEDIMENT CONTROL PLAN

- 1. All applicable erosion and sediment control practices shall be in place prior to any grading or installation of proposed
- Soil Erosion and Sediment Control practices on this plan shall be constructed in accordance with the standards for Soil Erosion and Sediment Control in New Jersey.
- 3. Applicable erosion and sediment control practices shall be left in place until construction is completed and/or the area is
- 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 disturbed area that is to be left exposed for more than thirty (30) days and not subject 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 (i.e. peg and twine, mulch netting or
- 6. It shall be the responsibility of the developer to provide confirmation of lime, fertilizer and seed and seed application and rates of application at the request of the Soil Conservation District.
- 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 stormwater runoff is diverted to soil erosion and sediment control facilities.
- 9. All sedimentation structures will be inspected and maintained on a regular basis and after every storm event.
- 10. A crushed stone, tire 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 must be stabilized with 2 1/2" crushed stone or sub-base 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 storm drainage outlets will be stabilized, as required, before the discharge points become operational.
- 15. All dewatering operations must discharge directly into a sediment filter area. The sediment filter should be composed of a suitable sediment filter fabric. (see detail). The basin must be dewatered to normal pool within 10 days of the design
- 16. N.J..SA. 4:24-39, Est Seq. requires that no certificate of occupancy be issued before all provisions of the certified soil erosion and sediment control plan have been complied with for permanent measures. All site work for the project must be completed prior to the district issuing a report of compliance as a prerequisite to the issuance of a certificate of
- 17. Mulching is required on all seeded areas to insure against erosion before grass is established to promote earlier
- 18. Offsite sediment disturbance may require additional control measures to be determined by the erosion control inspector.
- 19. A copy of the certified Soil Erosion and Sediment Control Plan must be maintained on the project site during
- 20. The Soil Conservation District shall be notified 48 hours prior to any land disturbance.
- 21. Any conveyance 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 vegetative cover. Stabilize topsoil with straw mulch for protection if the season does not permit the application and establishment of temporary seeding. All soil stockpiles are not to 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 changes to the site plan will require the submission of a revised Soil Erosion and Sediment Control Plan to the Soil Conservation District. 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 contain iron sulfides or have a pH of 4 or less.
- 25. Temporary and permanent seeding measures must be applies according to the New Jersey Standards, and mulched with salt hay or equivalent and anchored in accordance with the New Jersey Standards (i.e. peg and twine, mulch netting or liquid mulch binder).
- 26. Maximum side slopes of all exposed surfaces shall not be constructed steeper than 3:1 unless otherwise approved by
- 27. Dust is to be controlled by an approved method according to the New Jersey Standards and may include watering with a solution of calcium chloride and water.
- Adjoining properties shall be protected from excavation and land filling operations on the proposed site
- 29. Use staged construction 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

STORMWATER MANAGEMENT MAINTENANCE PROGRAM

1. Annual visual inspection of outlet structures and basins.

- 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.
- a. Inspection of outlet structures to include checking for obstructions of outfall pipes and the accumulation of silts and b. Inspection of basins to include the removal of debris and accumulated particles such as silts and sediments.
- 2. 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 solid, drought resistance, hardiness, and ability to withstand brief inundations. Fescues will also permit longer intervals
- d. Seed type: A mixture of the following special water-tolerant seed will ensure a high quality grass for retention basins.
- INGREDIENTS SEEDING BATE Mixture 8 2.1Lb./1.000 SF Perennial Rye Grass 0.25Lb./1,000 SI 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 pulverized dolomite limestone at a rate of 90lbs./1,000 SF 3. Long term Maintenance

construction. Both stages are necessary for the life of the stormwater structures and systems.

- 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 reseeded.
- 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 shall be devised into two stages: that which is necessary to allow for continuing performance of stormwater controls during the construction period and long term maintenance following
- 1. MINIMUM REQUIREMENTS FOR MAINTENANCE
- a. TRENCHES/SWALES Tenches/Swales to be inspected for rubbish 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 of pipe, accumulation of silts and sediments, cracking, corrosion, deterioration from freezing, salt or chemicals, excessive wear or damage from settling. c. SPILLWAYS/INLETS/MANHOLES
- Inspection to include checking for cracking, rodents, obtructions(silt-sediment, trash or other.) Check any gates, racks, or grates, for damage from corrosion, ice debris. Check for unauthorized modifications, tampering or vandalism
- 2. LONG TERM MAINTENANCE a. As noted, any basin, pipe, pit, trench or inlet not functioning as designed will be thoroughly as prescribed. Any system that continues to remain inoperable after thorough cleaning must be removed and 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.

SOIL CONSERVATION NOTES

STORMWATER MANAGEMENT MAINTENANCE PROGRAM

MULCHING

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 or 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.

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.

2. PROTECTIVE MATERIALS

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

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.

Mulch 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

Gravel, crushed stone, or slag at the rate of 9 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.

- Mulch anchoring 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
- A. Peg and Twine Drive 8 to 10 inch wooden pegs 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 criss-cross and a square pattern. Secure twine with two or more round turns. Mulch Nettings - Staple paper, jute,cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
- Crimper (mulch anchoring tool) A tractor-drawn implement, somewhat like a disc-harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil as to anchor it and leave part standing upright. This echnique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
- Liquid Mulch-Binders May be used to anchor salt hay, hay, or straw mulches Applications should be heavier at edges where wind catches the mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance.
- b. Use one of the following: (1) Organic and Vegetable Based Binders - Naturally occurring, power based, hydrophilic materials that mixed with formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluable polymers. The vegetative gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turf grass. Vegetable based gels shall be applied at rates and weather conditions recommended by the (2) High polymer synthetic emulsion, with water when diluted and following application to mulch, drying and curing shall no longer be soluble or dispersed in water. It shall be applied at rates weather conditions recommended by the

SOIL DE-COMPACTION & TESTING REQUIREMENTS

- REQUIREMENTS 1. Subgrade soils prior to the application of topsoil shall be free of excessive compaction to a depth of 6.0 inches to enhance the
- 2. Area of the site which are subject to compaction testing and/or mitigation are graphically denoted on the certified soil erosion 3. Compaction testing locations are demoted on the plan. A copy of the plan or portion of the plan shall be used to mark locations of
- tests, and attached to the compaction remediation form, available for the District. The form shall be completed and submitted prior to receiving a certificate of compliance from the District. 4. Should testing indicate compaction on excess of the maximum thresholds indicated for the simplified testing methods (see details),
- the contractor shall have the option to perform either (1) compaction mitigation over the entire mitigation area denoted on the plan or (2) perform additional, detailed testing to establish the limits of excessive compaction whereupon only the excessively compacted areas would require compaction mitigation. Additional testing shall be performed by a trained, licensed professional

COMPACTION TESTING METHODS

- Probing Wire Test (see detail) Hand-help Penetrometer Test (see detail)
- Tube Bulk Density Test (licensed professional engineer required) Nuclear Density Test (licensed professional engineer required)

manufacturer and remain tacky until germination of grass.

Notes: Additional testing methods which conform to ASTM standards and specification, and which produce a dry weight, soil bulk density measurement may be allowed subject to District approval. Soil Compaction testing is not required if/when subsoil compaction remediation (scarification/tillage - 6" minimum depth or similar) is proposed as part of the sequence of construction.

PROCEDURES FOR SOIL COMPACTION MITIGATION 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/tillage (6" minimum depth) where there is no danger to underground utilities (cables, irrigation systems, etc.). In the alternative, another method as specified by a New Jersey Professional Licensed Engineer may be substituted subject to District Approval.

STANDARDS FOR TOPSOILING

- METHODS AND MATERIALS Topsoil should be friable and loamy, free of debris, objectionable weeds and stones, and contain no toxic substance that may be harmful to plant growth, a pH range of 5.0-7.5 is acceptable. Soluble salts should not be excessive (conductivity less than 0.5 millimhos per centimeter). Topsoil hauled in from off site should have a minimum organic matter content of 2.75 percent. Organic matter content may be raised by additives.
- a. Stockpiles of topsoil should be situated so as not to obstruct natural drainage or cause off-site environmental damage. Stockpiles should be vegetated in accordance with temporary seeding specifications on soil erosion sheet.
- a. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application and anchoring, and maintenance. b. Subsoil should be tested for lime requirement and limestone, if needed, should be applied to bring soil pH to 6.5 and incorporate into as nearly as practical to a depth of 4 inches. Immediately prior to topsoil distribution, the surface should be scarified to provide a good bond with the topsoil. d. Employ needed erosion control practices such as diversions, grade stabilization structures, channel stabilization measures,
- Topsoil should be handled only when it is dry enough to work without damaging soil structure; i.e., less than field capacity. b. A uniform application to a depth of 5 inches firmed in place is required. 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 5.0 or more.

DUST CONTROL STANDARDS

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. Type of Nozzle Apply Gallons/Acre
- Latex emulsion Fine spray Fine spray Resin in water 2. Tillage - To roughen surface and bring clods to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows 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, crate walls, bales of hay and similar material can be used to crate walls, bales of hay and similar material can be used to control air currents and soil blowing.
- 5. Calcium Chloride Shall be in the form of loose dry granules at a rate that will keep surface moist but not cause or flakes fine enough to feed through commonly used spreaders pollution or plant damage. If used on steeper slopes, Then pollution or plant damage. If used on steeper slopes, Then use other practices to prevent washing into streams or accumulation around plants. . Stone - Cover surface with crushed stone or coarse gravel.

7. Mulch - Stabilization with approved mulches and vegetation cover being temporary of permanent. SEEDING SPECIFICATIONS

	SEEDING SI EOII IOATIONS			
Temporary Seeding Fertilizer Limestone Perennial Rye Grass	(10-20-10 or equivalent) (50% Calcium plus MgO) (Lolium multiflorum)	11 Lbs./1,000 SF 90 Lbs./1,000 SF 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	0.9 Lbs./1,000 SF		
	(Three Cultivar Blend)			
	Hard Fescue	4.0 Lbs./1,000 SF		
	Perennial Rye Grass	0.7 Lbs./1,000 SF		

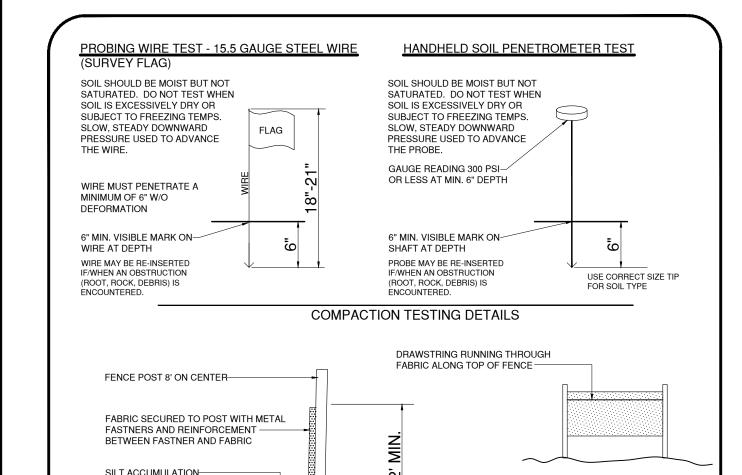
Work lime and fertilizer into soil as nearly as practical to depth of four inches (4"0). Remove from the surface all stones two inches (2") Note: Optimum seeding dates February 1 to April 30 and August 15 to October 30.

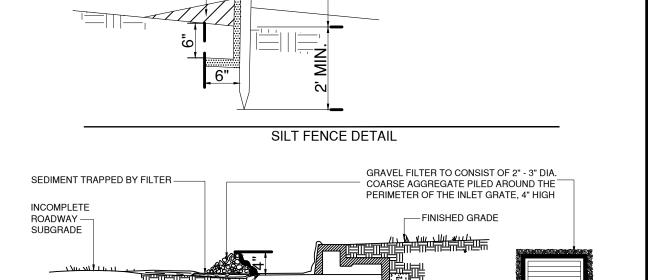
SOIL CONSERVATION NOTES

PHASE OPERATION TIME PERIOD ESTABLISH EROSION CONTROL MEASURES 2 DAYS SITE CLEARING 3 DAYS 2 DAYS ROUGH GRADING CONSTRUCT STORMWATER BASIN INCLUDING VEGETATIVE STABILIZATION CONSTRUCT SANITARY SEWER SYSTEM & WATER SYSTEM N/A CONSTRUCT STORM DRAINAGE STRUCTURES 5 DAYS 2 DAYS FINE GRADE AND CONSTRUCT STONE BASE N/A CONSTRUCT DRAINAGE SWALES PERFORM TEMPORARY SEEDING AS NECESSARY 2 DAYS PERFORM PAVING AND CONSTRUCT SIDEWALKS 3 DAYS LAY BUILDING FOUNDATIONS AND CONSTRUCT DWELLINGS PERFORM SUBSOILS COMPACTION TEST 1 DAY SCARIFY/TILL SUBSOILS TO A MIN. DEPTH OF 6 INCHES 2 DAYS PERFORM PERMANENT SEEDING AND LANDSCAPING 2 DAYS VARIOUS LOT GRADING TO CONTINUE THROUGHOUT CONSTRUCTION SEQUENCE.

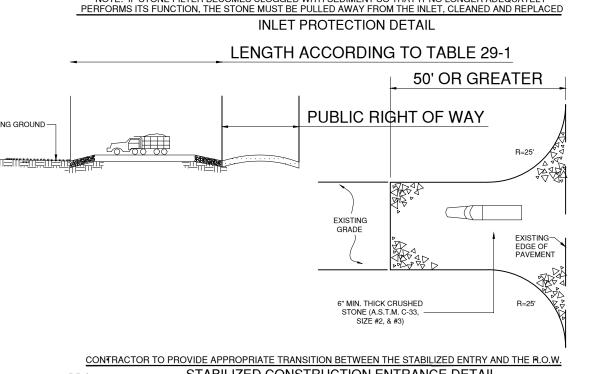
DURATION OF EACH SEQUENCE WILL VARY DUE TO SECTIONALIZATION AND MARKET CONDITIONS. CONSTRUCTION WILL BEGIN SPRING 2018

CONSTRUCTION SEQUENCE





WIRE MESH WITH 1/2" OPENINGS (10 GA.) TO BE STRETCHED OVER ENTIRE INLET AS SHOWN. CONCRETE CURE UTILIZED IN PLACE OF WIRE 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



STABILIZED CONSTRUCTION ENTRANCE DETAIL

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 cleanout 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

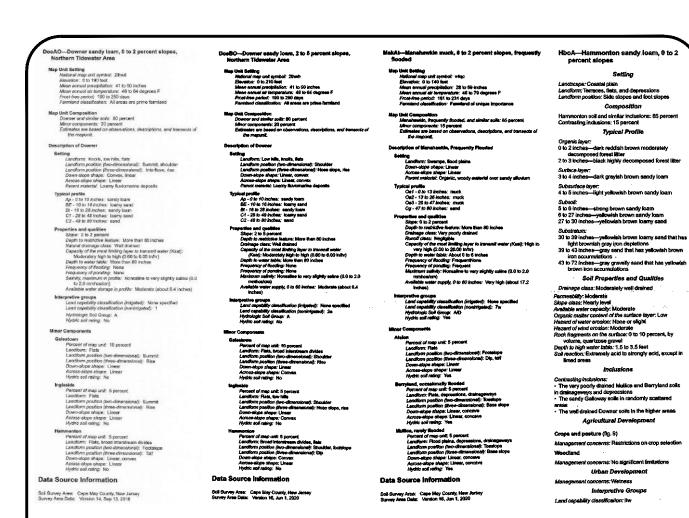
SOIL CONSERVATION DETAILS

or street sweeper will be required to clean paved or impervious surfaces. All other access points which are not



S.C.D. SOILS MAP

SCALE: 1"=500'



SOILS DESCRIPTION

LAND COVER

	A.	Total Area of Site	17.27 Acr
]	B.	Present Cover	Developed
(C.	Total Area of Disturbance	9.944 Acre

RESPONSIBILITY

D. Adjacent Site Conditions.

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.

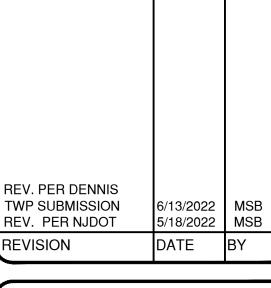
Owner/Applicant: Zemac CM, LLC c/o David Szeker 222 Clinton Street APT 18 Hoboken, NJ 07030

Project Location: 1910 Route 9 Dennis Township, NJ 08210

GENERAL INFORMATION



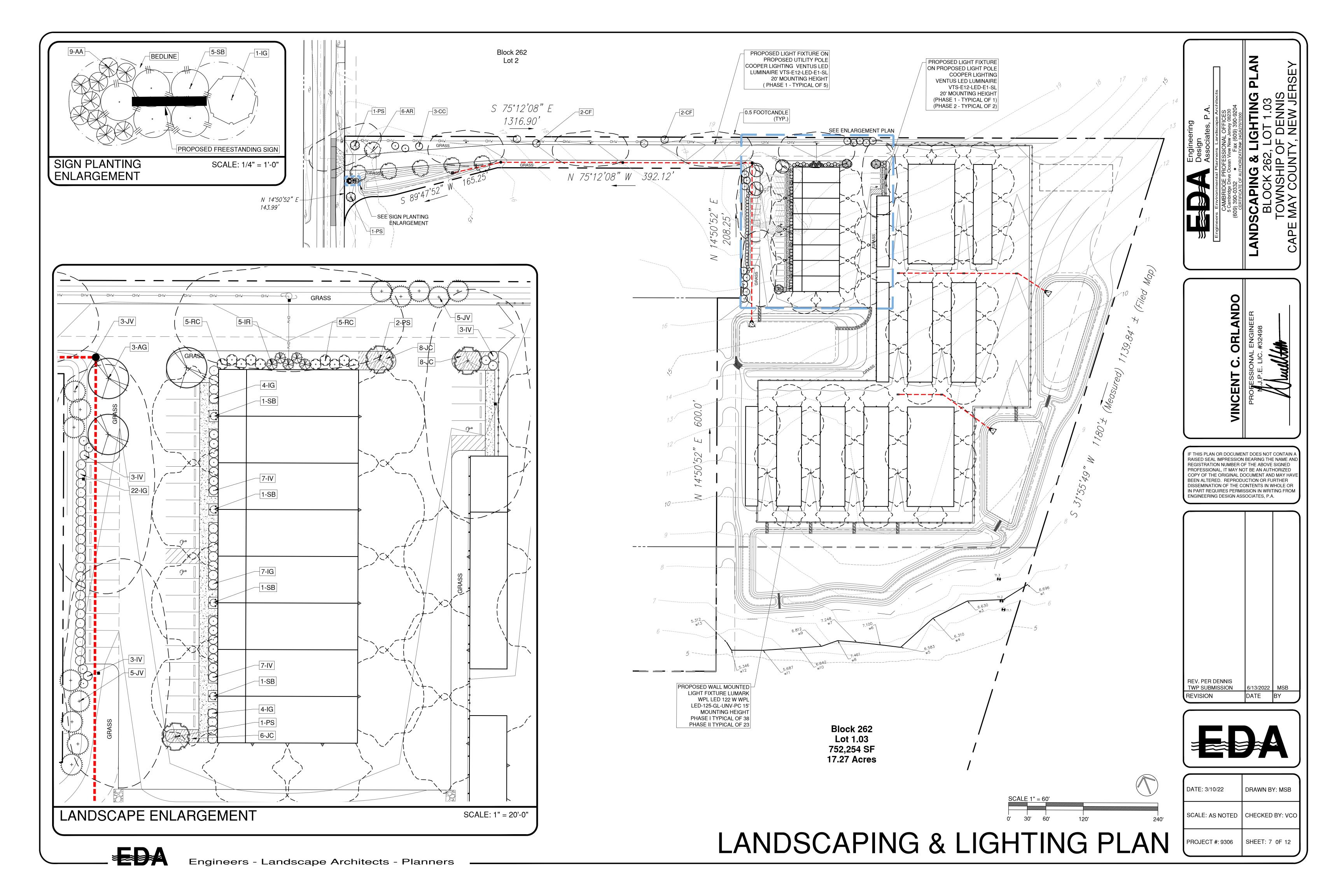
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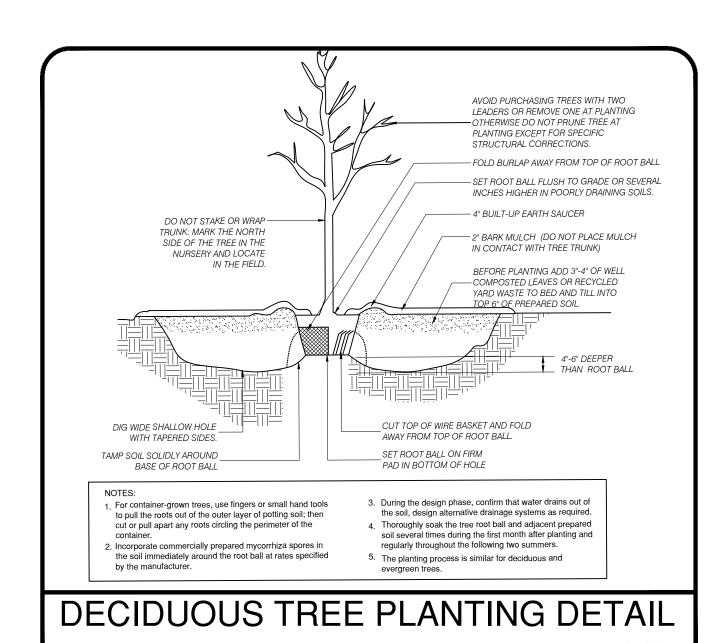


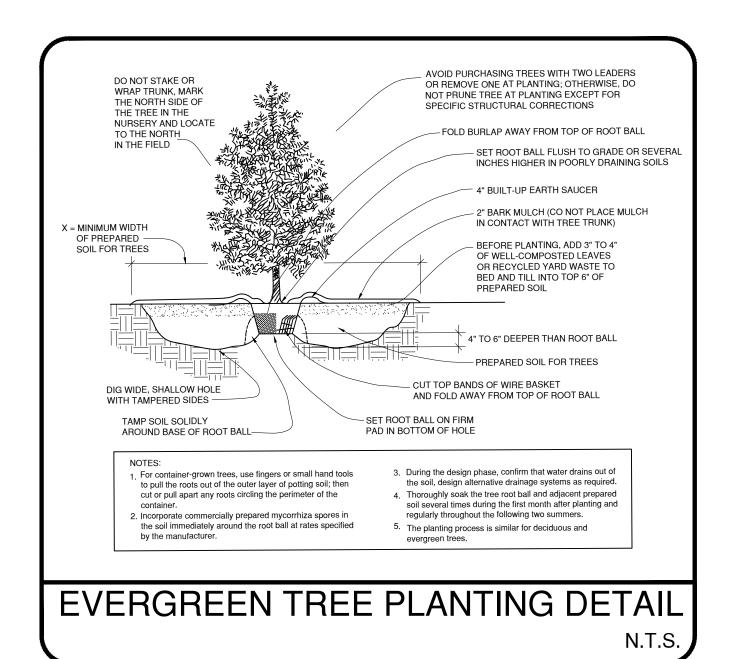


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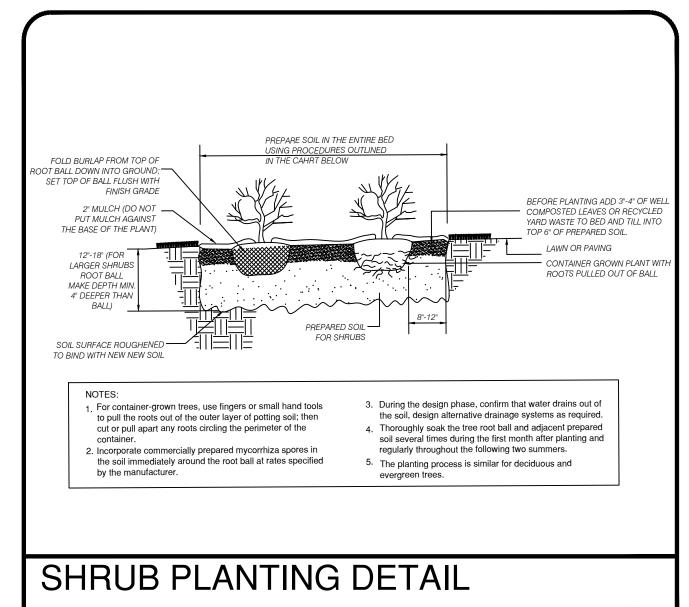








N.T.S.



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 ANMD ALIGNMENT.
- 2. THE CONTINUOUS SHALL BE RESPONSIBLE FOR FEATURING CONNECT GRADES AND ALIGNMENT.

 3. PLANTS SHALL NE TYPICAL OF THEIR SPECIES AND VARIETY: HAVE NORMAL GROWTH HABITS, WELL DEVELOPED BRANCHES, DENSELY FOLIATED; VIGROUS ROOT
- 3. PLANTS SHALL NE TYPICAL OF THEIR SPECIES AND VARIETY: HAVE NORMAL GROWTH HABITS, WELL DEVELOPED BRANCHES, DENSELY FOLIATED; VIGROUS F SYSTEMS AND BE FREE FROM DETECTS 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 TEES AND A MINIMUM OF TWO GROWING SEASONS FOR SCHRUBS. REPLACMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACMENTS SHALL HAVE A GUARANTEE EQUAL TO THATSTATED ABOVE.
 6. IN SO FAR AS IT PRACTIABLE, 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 Z80 (REV 1980) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMMERICAN ASSOCIATION OF NURSERYMAN, INC.

 8. ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THROUGHLY WATERED AND TAMPED AS BACKFILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL, FREE
- OF DRY SOD, 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.
- ACCORDANCE WITH ACCEPTARI E LOCAL PRACTICE.
- 11. NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THEN 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 1/3" OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER OF
- 4. 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.
- PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. CUT OVER 3/4" IN DIAMETER SHALL BE PAINTED WITH SUITABLE TREE PAINT.

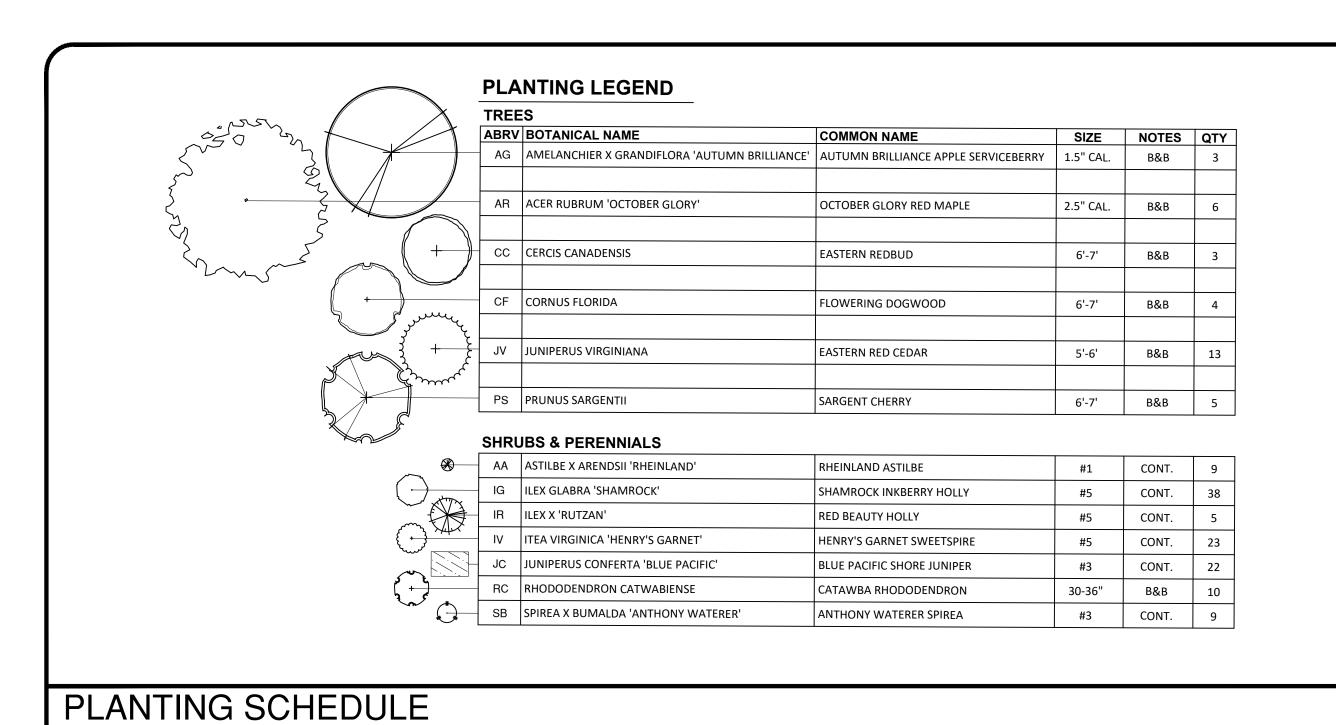
 5. TREES SHALL BE SUPPOTED IMMEDIATELY AFT ER PLANTING. ALL TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE GUYED. SMALLER TREES SHALL BE
- 16. THE TRUNKS OF ALL TREES SHALL BE WRAPPED AS SOON AS POSSIBLE AFTER PLANTING ACCORDING TO STANDARD PROCEDURES AND AS INDICATED.

PLANTING NOTES

STAKED, GUYING WIRES AND STAKES SHALL BE INSTALLED AS INDICATED

TREES MUST NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED.

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 AD ILISTMENT

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

GRASSES

AREAS TO BE SEEDED SHALL CONSIST OF THE FOLLOWING SEED MIXTURES TO INSURE A HIGH QUALITY GRASS.

REBEL II TALL FESCUE - 8 LBS PER 1000 SF

SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. PLAN HOLDS PRECEDENT.

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.)

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.

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

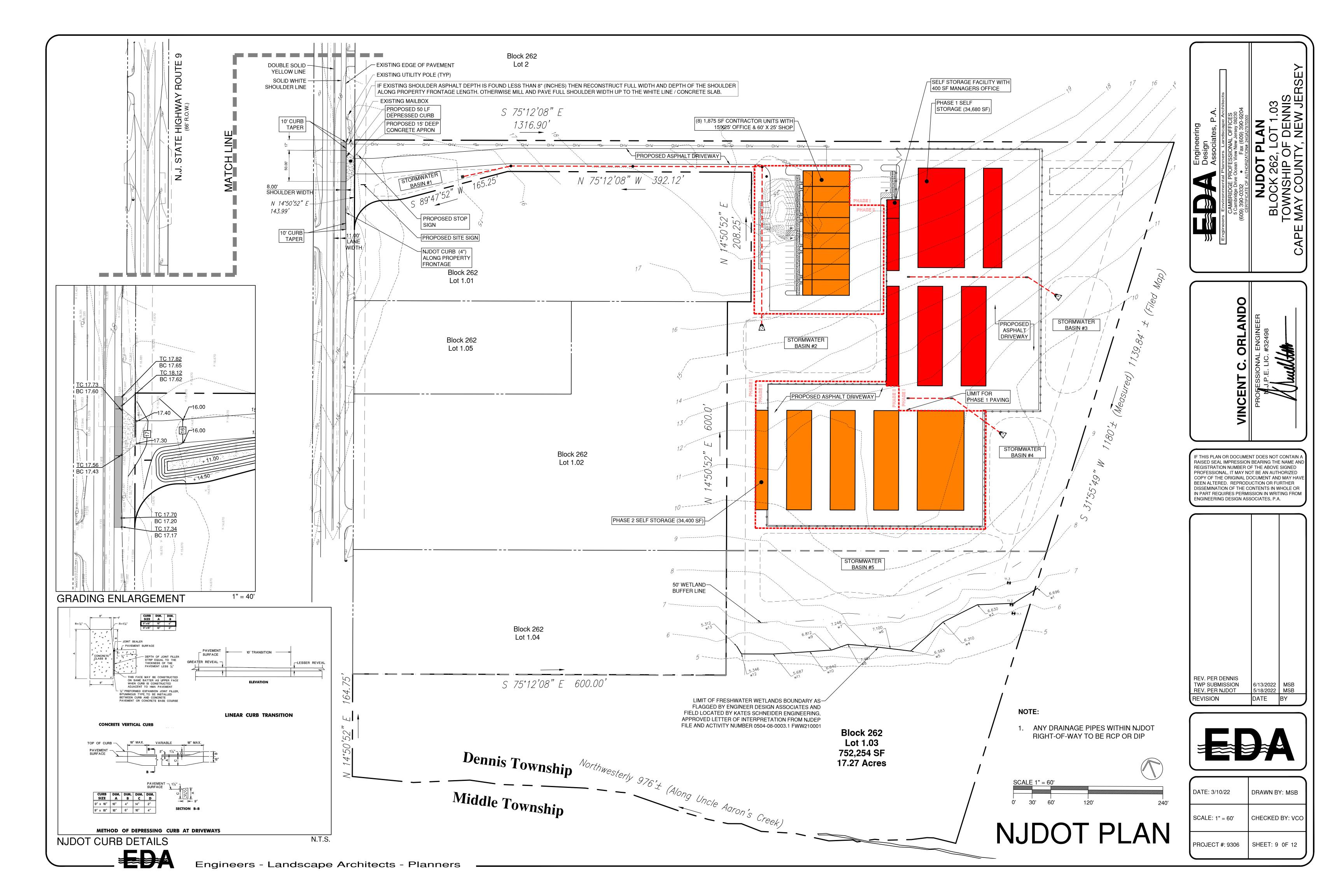
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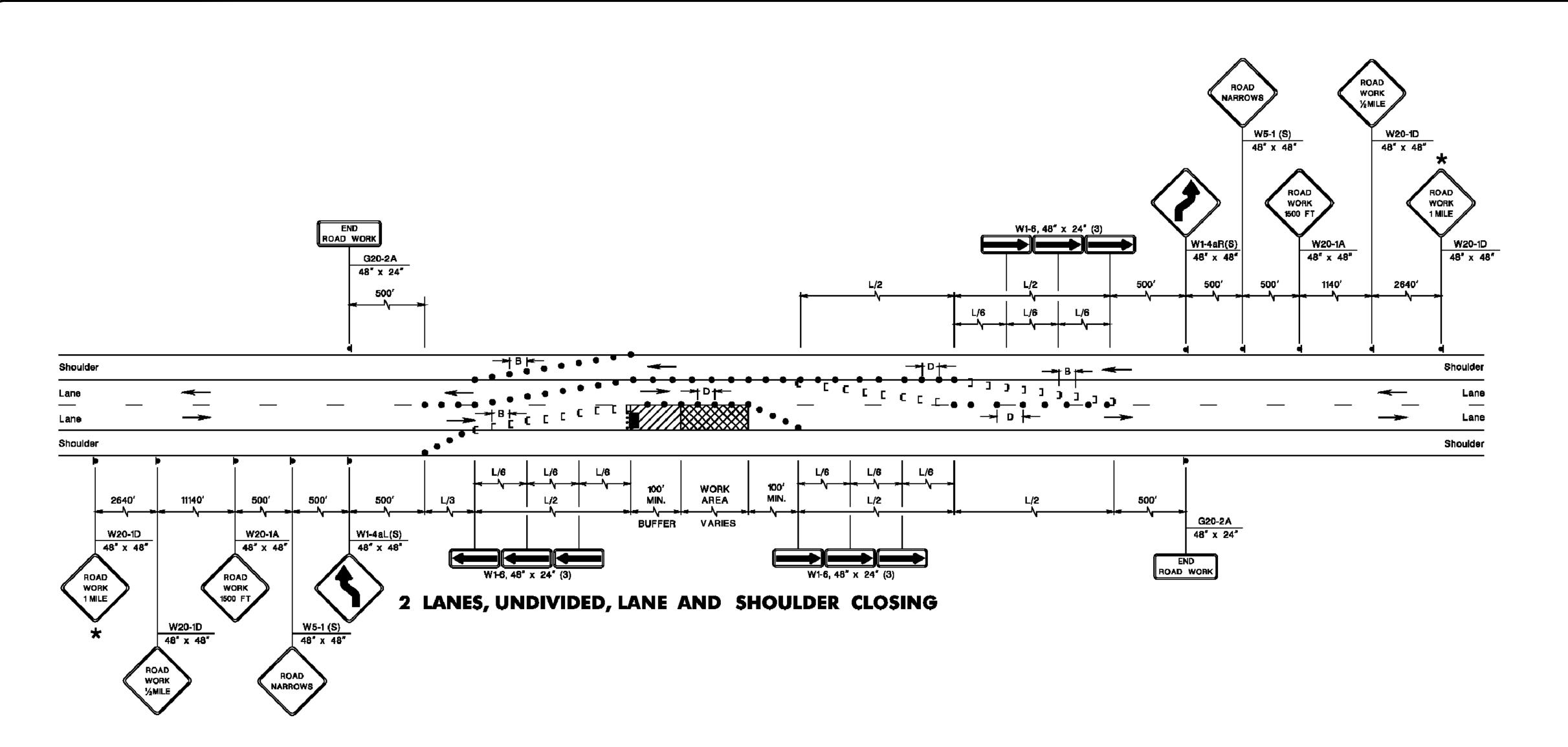
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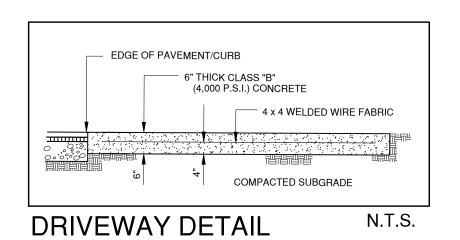






45 M.P.H. OR GREATER UNLESS OTHERWISE DIRECTED BY THE RE.

SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B, AND D.



INTERMEDIATE COURSE $_{7}^{
m V}$ 5" HOT MIX ASPHALT 25 M64 $_{
m V}$ BASE COURSE TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2019)

2. MATERIALS FOR THE ASPHALT CONCRETE BASE SHALL CONFORM TO SECTIONS 301.02 AND 304.02 OF THE N.J. DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2019)

3. THICKNESSES MAY HAVE TO BE CONSTRUCTED IN MULTIPLE LIFTS, BASED ON EQUIPMENT CAPABILITIES.

4. THE GRANULAR BASE SHALL BE DENSE GRADED AGGREGATE CONFORMING TO SECTION 901.08 OR SOIL AGGREGATE DESIGNATED 1-5

SOIL CLASSIFICATION. TEST RESULTS SHALL BE APPROVED BY THE MUNCIPAL ENGINEER.

7. DRAWINGS ARE BASED ON THE FOLLOWING DESIGN ASSUMPUTIONS: A 20-YEAR DESIGN PERIOD WITH STAGED CONSTRUCTION IS USED. BASE COURSES ARE DESIGNED TO WITHSTAND THE CONSTRUCTION TRAFFIC ANTICIPATED DURING A 3-YEAR CONSTRUCTION PERIOD AND HAVE A RESIDUAL LIFE OF 17 YEARS AT THE END OF THE 3-YEAR PERIOD. THE ENTIRE PAVEMENT SECTION, BASE COURSE PLUS FINISH COURSE, IS DESIGNED TO WITHSTAND THE TRAFFIC LOADING FOR THE REMAINING 17 YEARS OF THE 20-YEAR DESIGN PERIOD. NJDOT ASPHALT PAVEMENT SECTION N.T.S.

CONFORMING TO SECTION 901.09 AND SHOWN IN TABLE 901-2 OF THE N.J. DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2019)

5. ALL SUBGRADES SHALL BE CONSIDERED "POOR," UNLESS THE APPLICANT PROVES OTHERWISE THROUGH CBR TESTING OR FIELD EVALUATION OF SOIL CLASSIFICATION. TEST RESULTS SHALL BE REVIEWED BY THE MUNCIPAL ENGINEER.

NOTE:

- 1. CONTRACTOR TO OBTAIN NJ ONE-CALL NUMBER FOR UTILITY MARK OUT AND SUPPLY CONFIRMATION NUMBER TO NJDOT.
- 2. ALLOWABLE WORKING HOURS: 8AM TO 5 PM

OPTIONAL CONNECTION TYPE B TREATMENT AT VERTICAL DROP OFF

REC	RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS					
REGULATORY APPROACH SPEED OF TRAFFIC	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	L - FOR LANE		MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET	
MILES /HOUR		10'	11′	12'		
25	10.5:1	105	115	125	25	50
30	15:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27:1	270	300	325	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110
60	60:1	600	660	720	60	120
65	65:1	650	715	780	65	130

NOTE:

THE MAXIMUM DEVICE SPACING ALONG CURVES IS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.

HORIZONTAL OR VERTICAL CURVATURE OR IF RELOCATION OF THE TAPER IS NOT POSSIBLE, THEN MINIMUM VALUES CAN BE APPLIED. WHEN MINIMUM VALUES ARE USED, PAY SPECIAL ATTENTION TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES WHEN PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED. 5. LOCATE TAPERS TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

RECOMMENDED SIGHT DISTANCE TO

URBAN

FEET

525

625

725

825

925

1025

1150

1275

1. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND / OR DIRECTION CHANGE

2. RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES ARE

3. RURAL AND URBAN ROAD DESIGNATIONS ARE AS DEFINED IN THE NJDOT

FEASIBLE OR PRACTICAL TO PROVIDE DESIRABLE VALUES BECAUSE OF

4. PROVIDE DESIRABLE VALUES WHEREVER POSSIBLE. IF IT IS NOT

DESIRABLE

RURAL

FEET

375

450

525

600

675

750

875

1000

1050

DOUBLE THE VALUES SHOWN ABOVE.

STATE HIGHWAY STRAIGHT LINE DIAGRAMS.

PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.

BEGINNING OF CHANNELIZING TAPERS

MINIMUM

RURAL AND URBAN

FEET

150 200

250

325 400

475

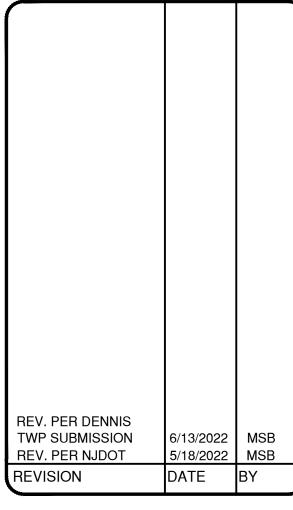
550

650

725

NJDOT TRAFFIC CONTROL PLAN

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REGULATORY

APPROACH

SPEED OF

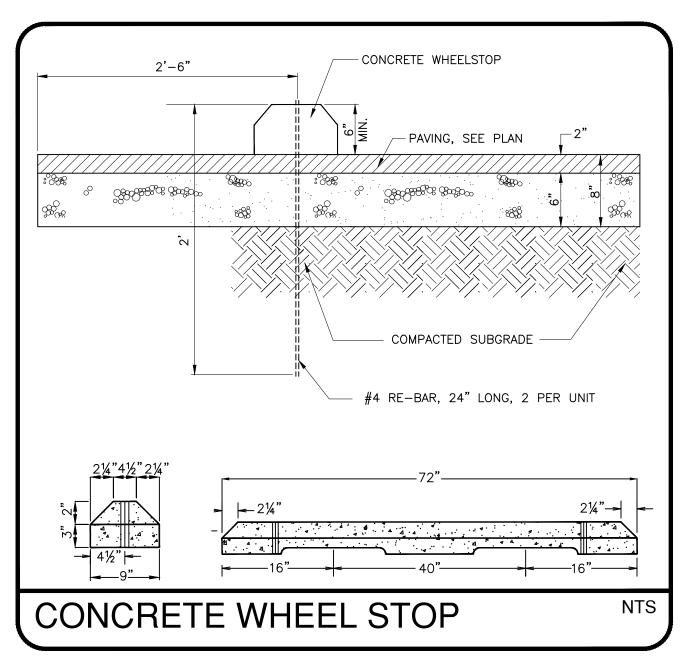
TRAFFIC

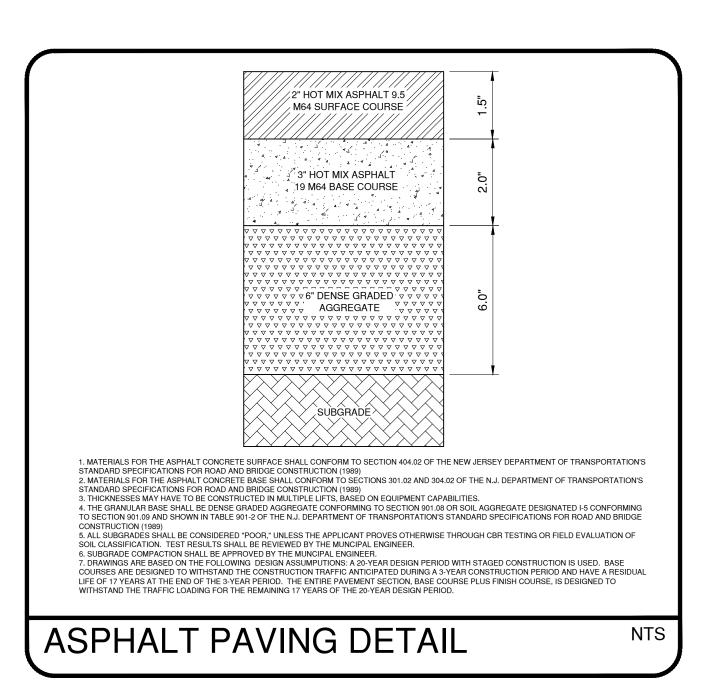
MILES/HOUR

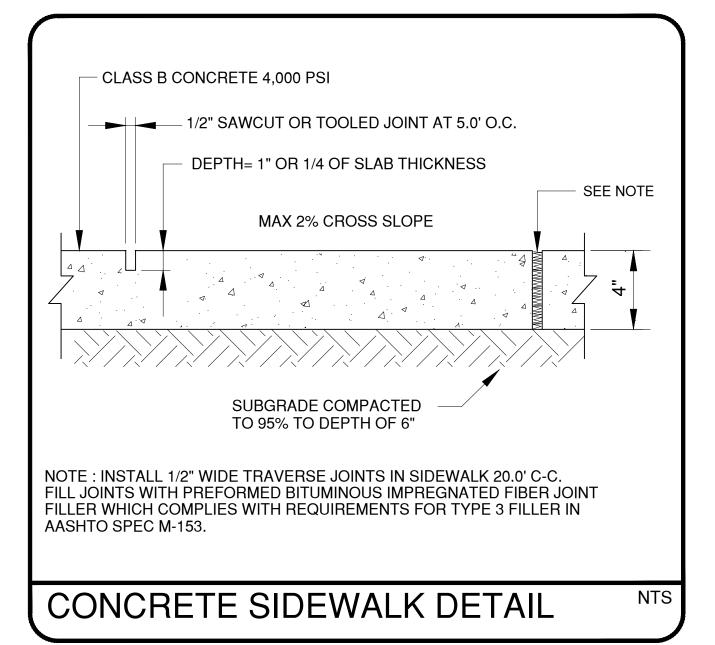
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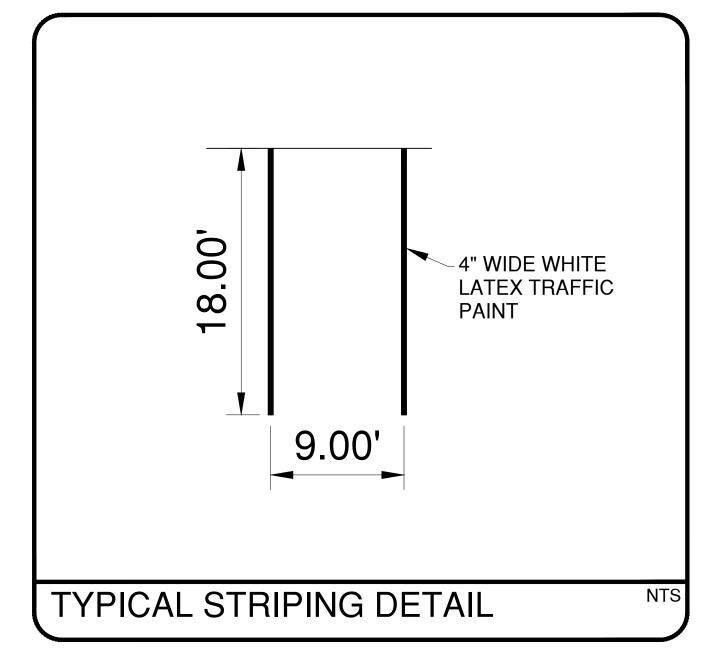
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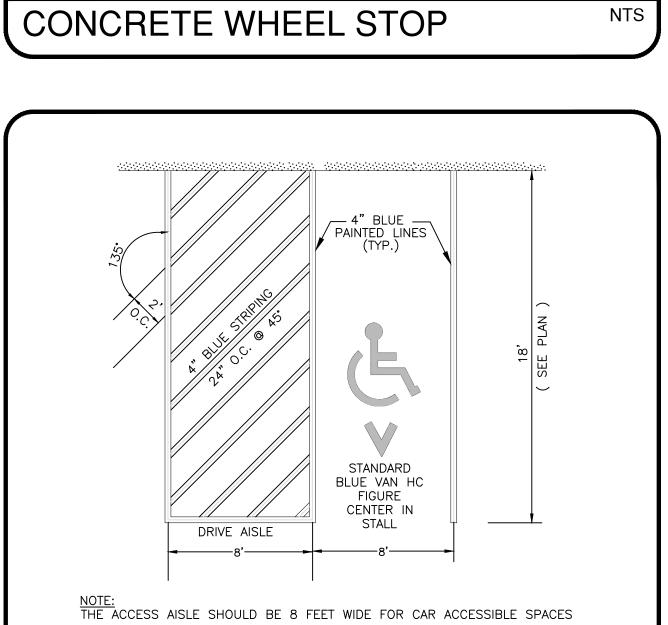
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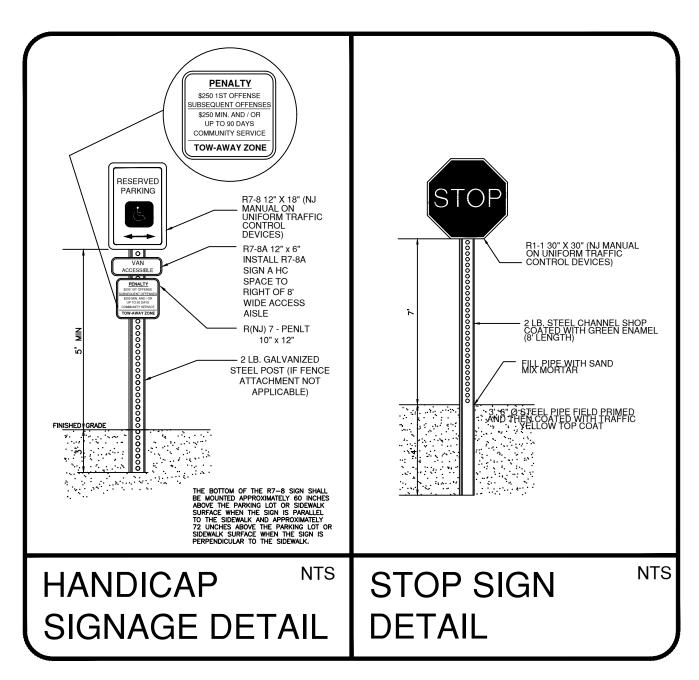


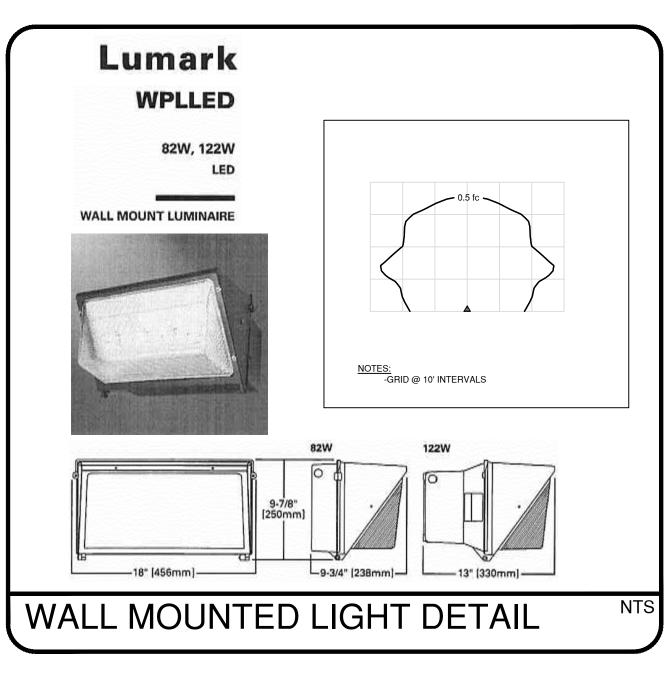


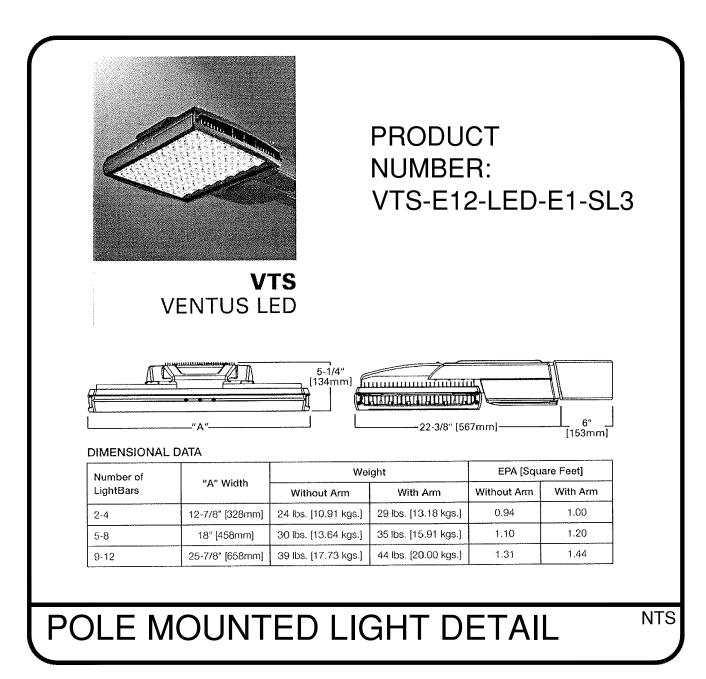


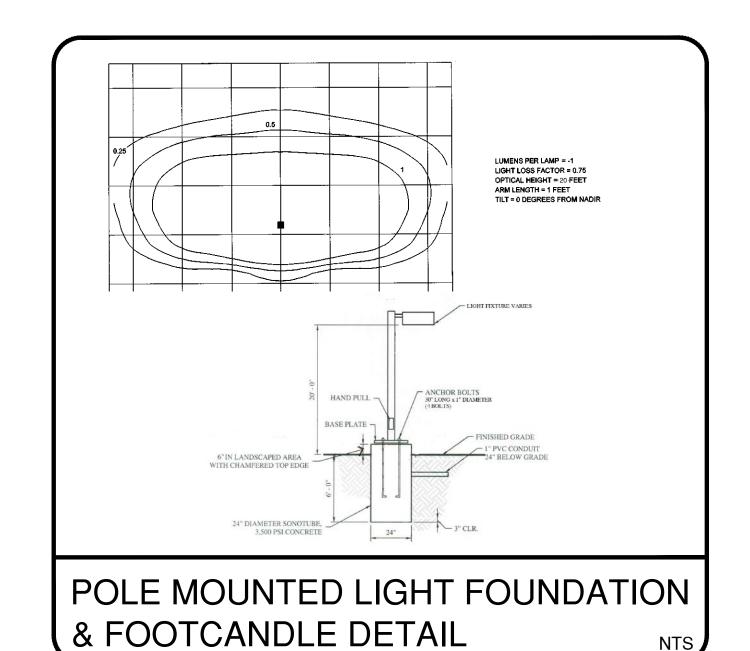




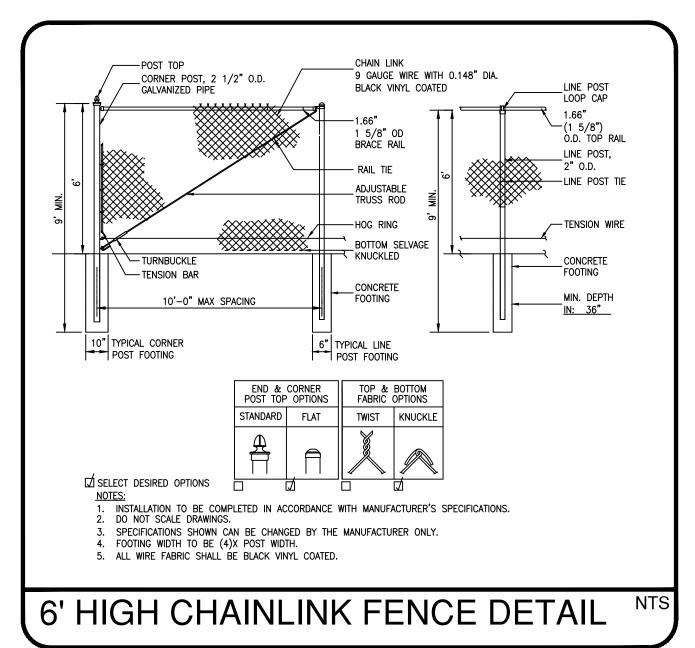


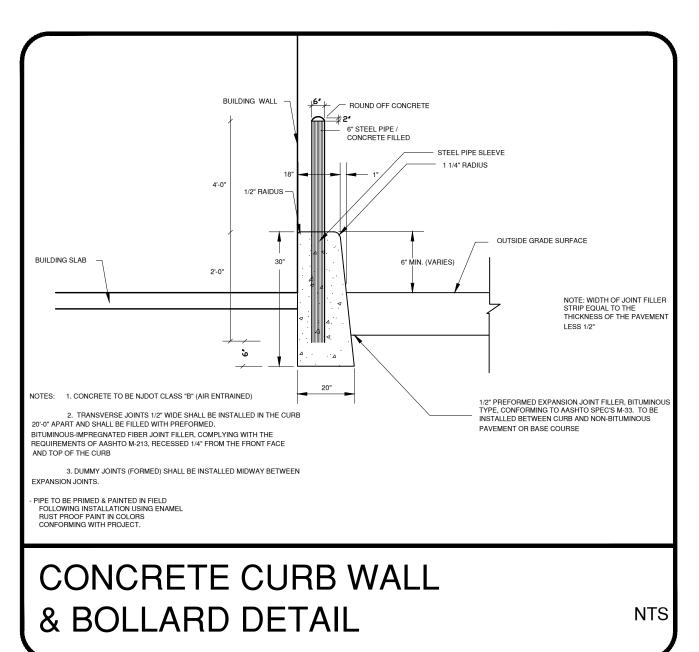


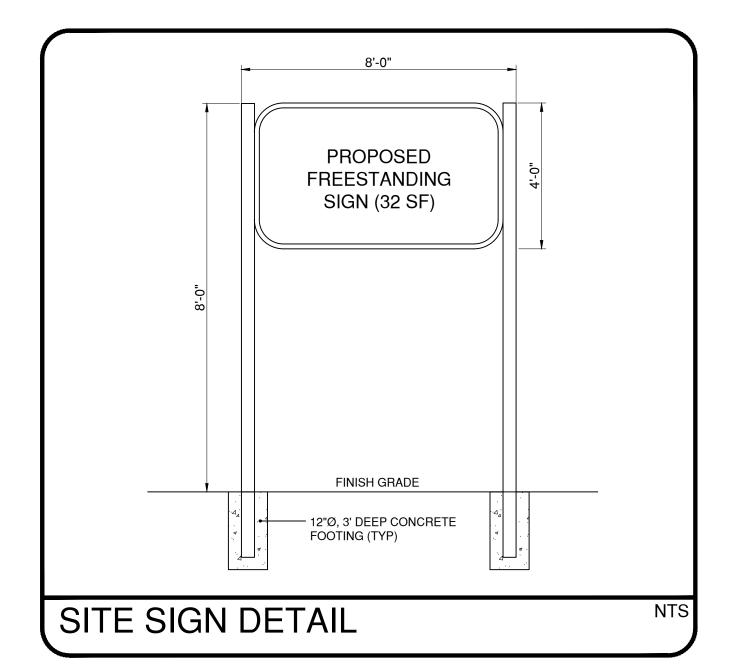




HANDICAP PARKING DETAIL



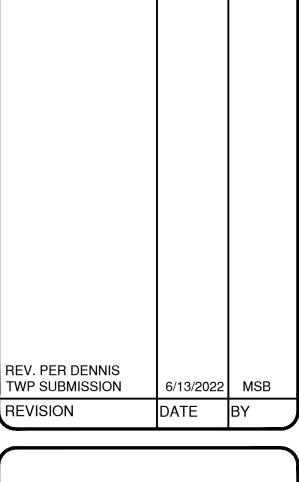


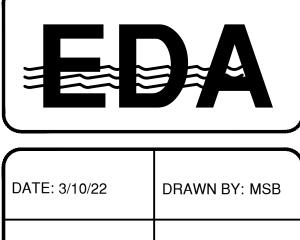






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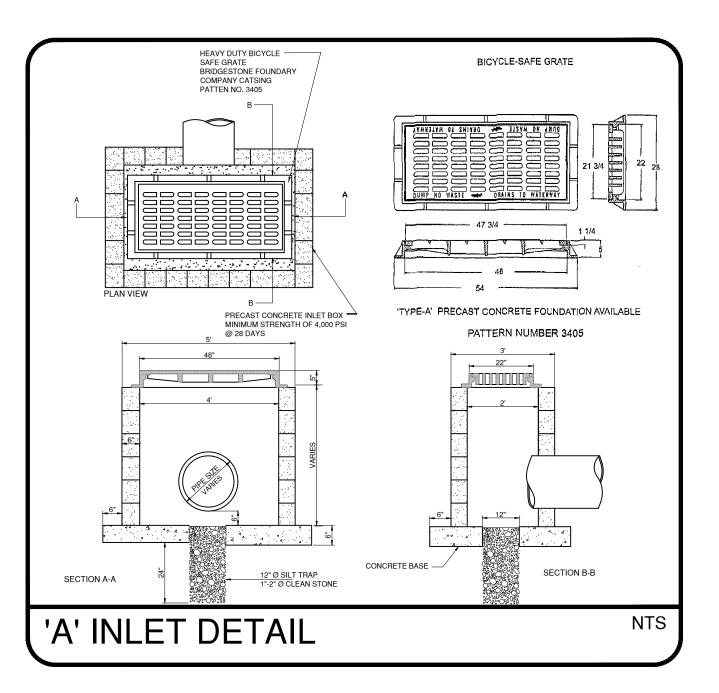


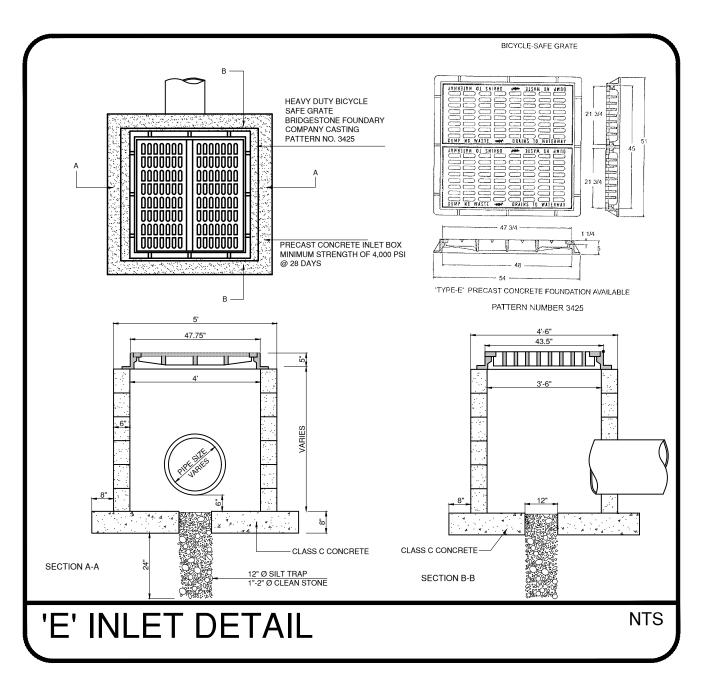


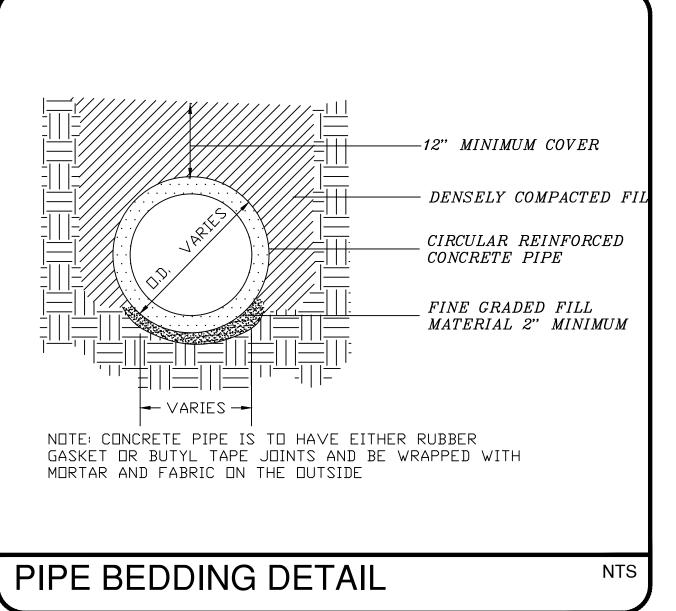
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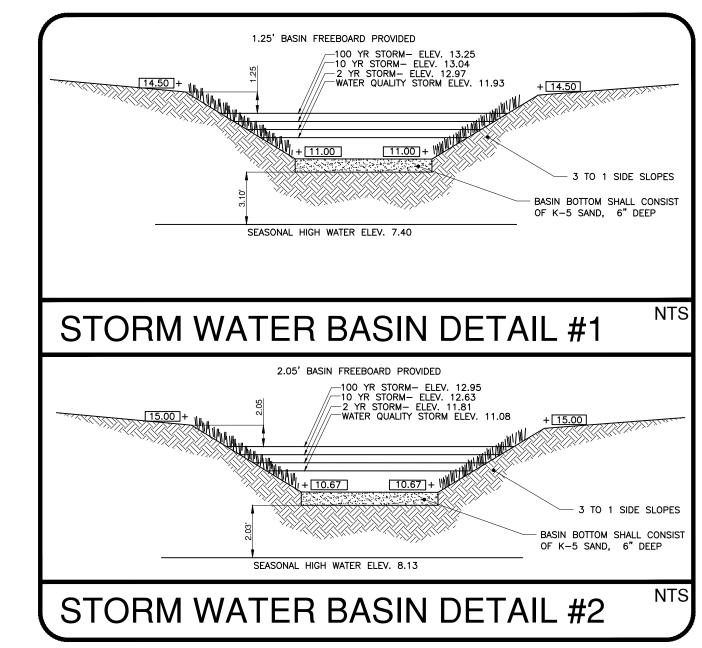


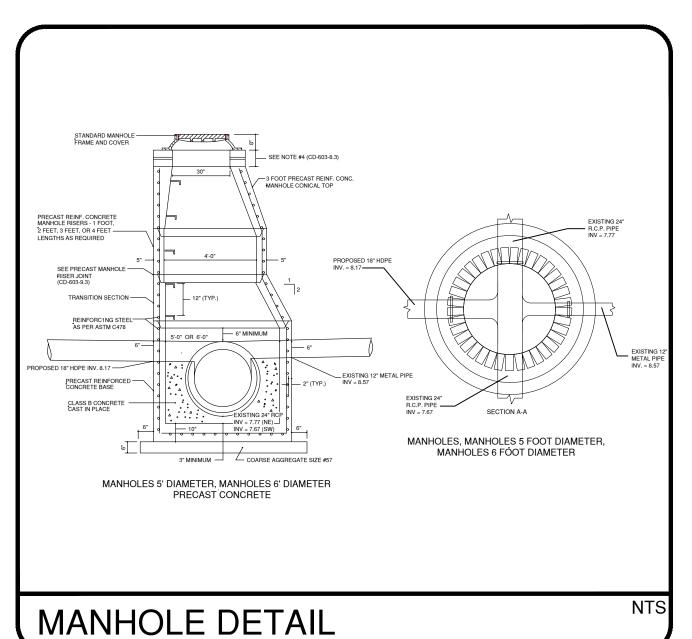
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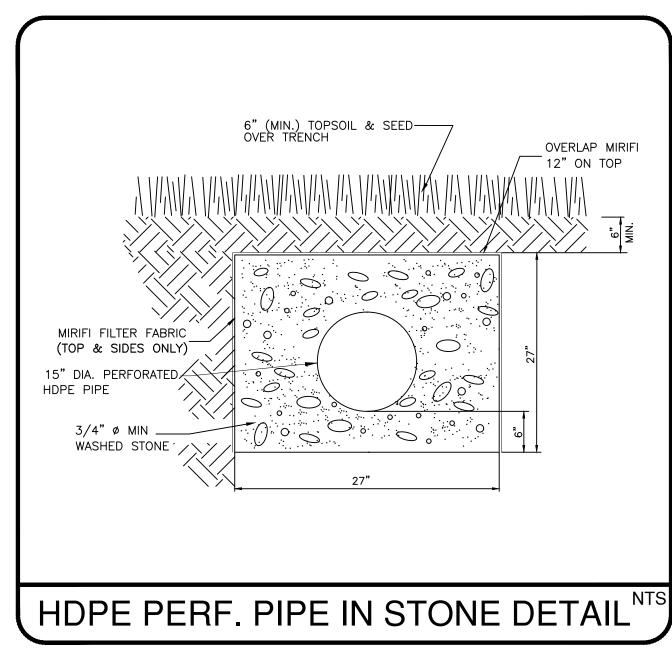


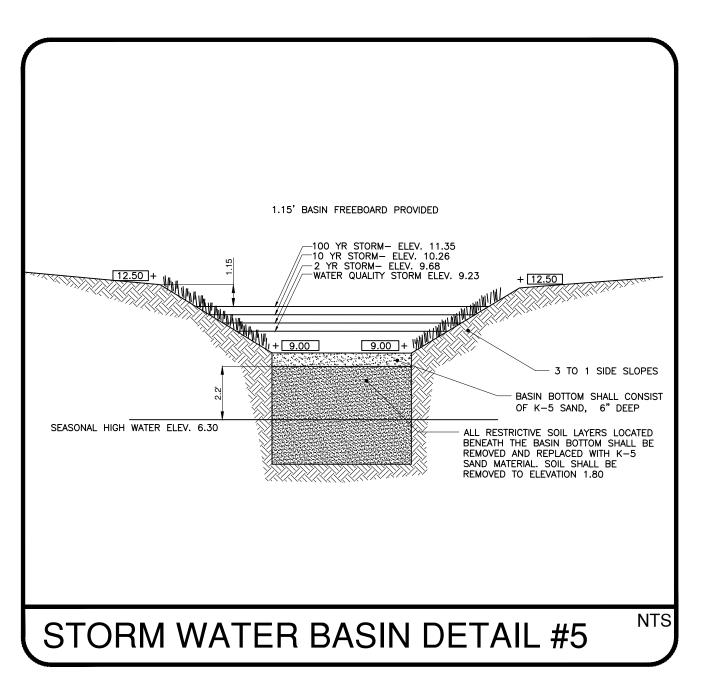


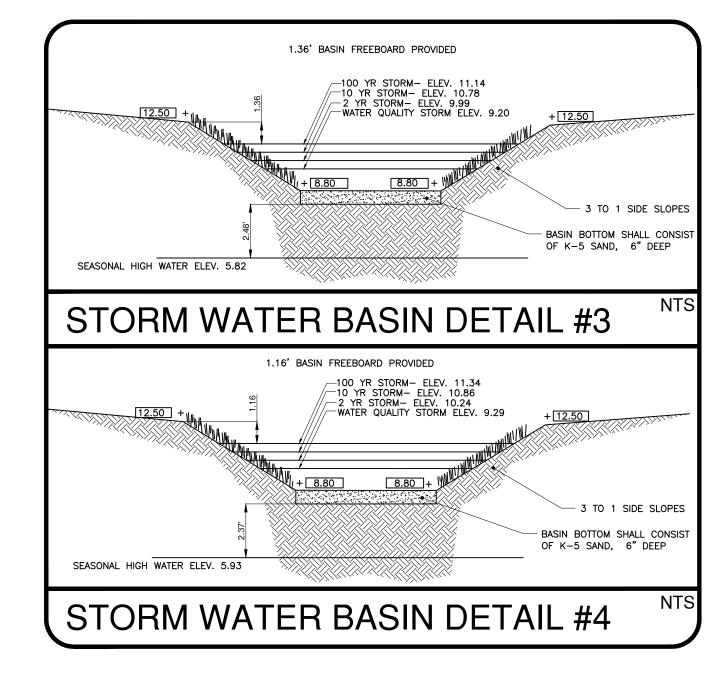


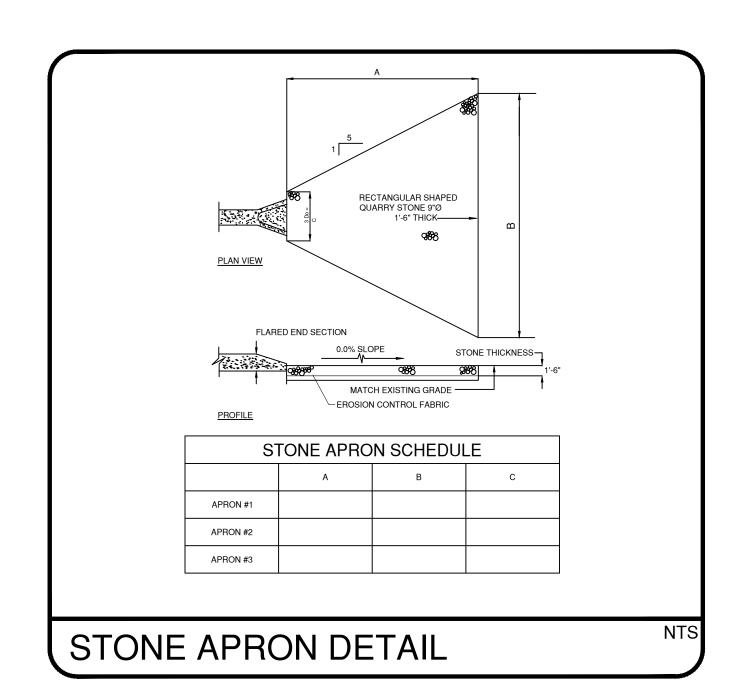


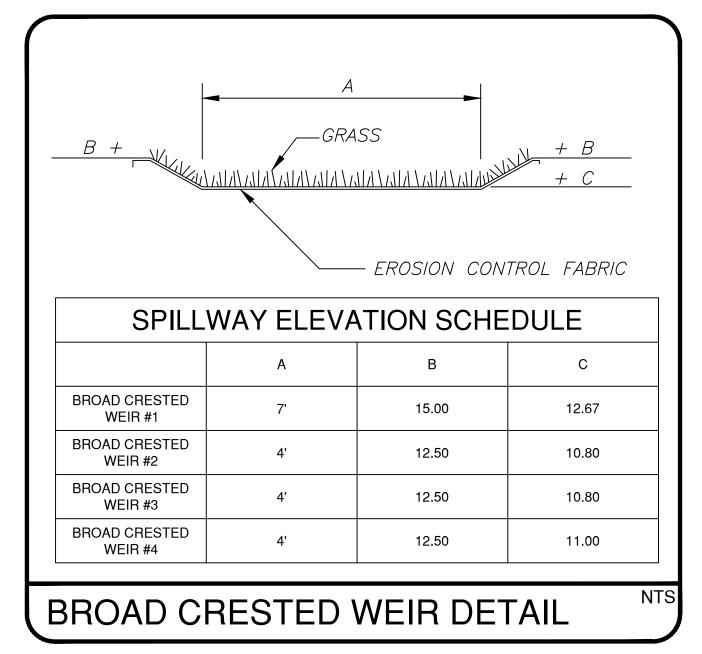


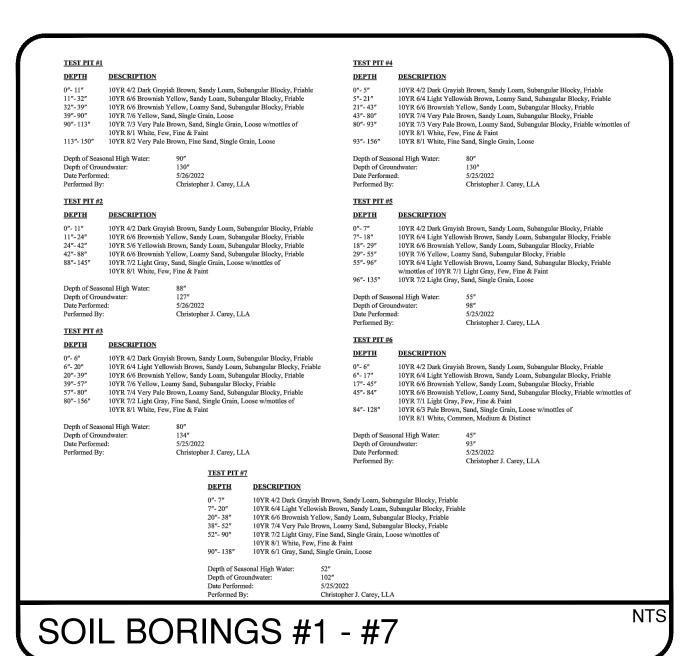


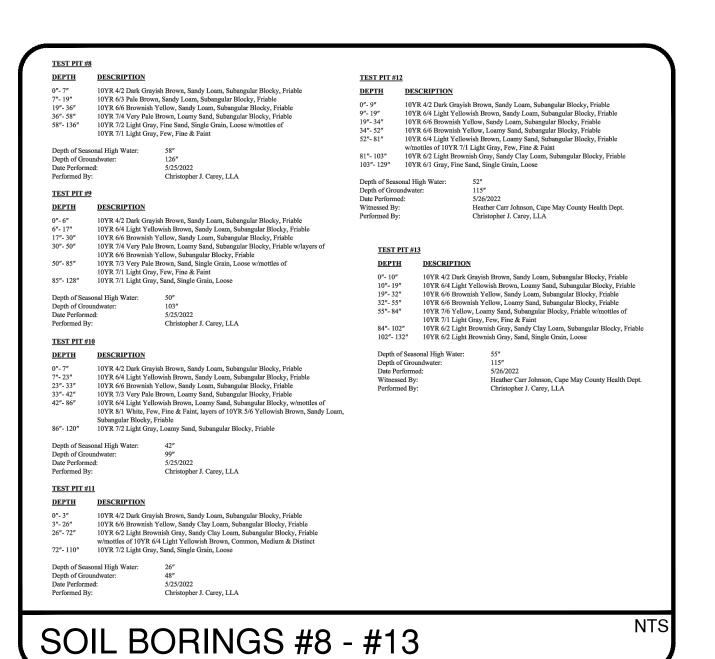




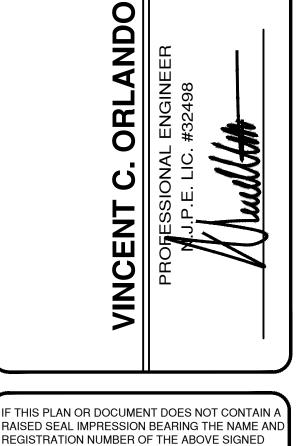


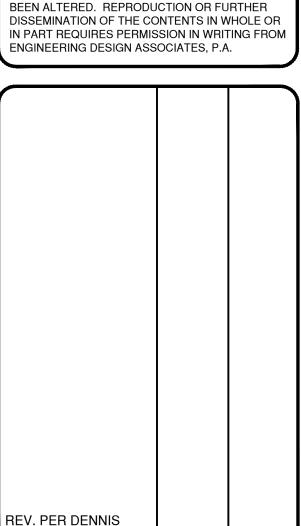












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REVISION

6/13/2022 MSB

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