ENVIRONMENTAL IMPACT STATEMENT

For

Pallu Associates, LLC Hyde Park Residential Development

> Texas Road & Falson Lane Block 146, Lots 25 & 26 Township of Marlboro Monmouth County, NJ

> > Prepared by:



826 Newtown Yardley Road Suite 201 Newtown, PA 18940 (267) 685-0276

Steven R. Cattani, PE, CFM, CME NJ Professional Engineer License #40014

> November 2020 DEC# 2841-99-001

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I. PROJECT DESCRIPTION

The project site consists of Block 146, Lots 25 & 26, located on the northwest corner of Texas Road & Falson Lane in the Township of Marlboro, Monmouth County, New Jersey. Currently the site is vacant and mostly forested with power lines running through a grassed area which runs down the center of the property off of Texas Road. The subject site is 1,653,232 square feet (38.95 acres). The site is bordered to the north by vacant forested land; to the east by a commercial warehouse use (Life Storage); to the south by a residential use; and the west by a residential use and a commercial use (Insurance Auto Auctions). The project consists of developing the parcel with sixteen (16) multi-family residential dwelling units and one (1) community building, with eight hundred and eight (808) total vehicle parking spaces, driveways, landscaping, stormwater management facilities, and other related site improvements and structures. The developed area will be completed outside wetlands, and wetland buffers of the Deep Run tributary.

The existing conditions of the tract have been verified by the Boundary & Topographic Survey prepared by Dynamic Survey, LLC, dated July 31, 2020

II. EXISTING ENVIRONMENTAL CONDITIONS

A. Groundwater – Per the Report of Geotechnical and Stormwater Basin Area Investigation prepared by Dynamic Earth, LLC, dated November 9, 2020 located in Appendix S, evidence of seasonal high groundwater (based on soil mottling) was encountered within the soil profile pits at depths ranging between 3 feet and 11.1 feet below the ground surface. It is important to note that the design provides that finished floors and detention basins will be at least 1 FT above the seasonal high groundwater table.

The planned development proposes to utilize three (3) detention basins, one (1) infiltration basin, five (5) recharge pits, and one (1) recharge basin to meet the stormwater recharge requirements due to the proposed development. As documented in the accompanying Stormwater Management, Groundwater Recharge & Water Quality Analysis prepared by Dynamic Engineering Consultants, PC Dated November 2020 located in Appendix T, the proposed infiltration and detention basins have been designed to permeate in excess of the post development recharge deficit, thereby complying with the groundwater recharge aspects of NJAC 7:8.

Therefore, the proposed development is not anticipated to have any negative impacts on the groundwater conditions or aquifer recharge areas.

B. Air Quality - Existing air quality surrounding the site is typical of a central New Jersey suburban setting. There are existing hazardous air pollutants (HAP's) which come from cars, heavy duty trucks, buses and other roadway vehicles. These vehicles produce diesel particulate matter, diesel exhaust and/or carbon monoxide. There are known health standards associated with these

pollutants. Current air quality readings taken from surrounding areas report the presence of pollutants such as PM2.5 and at an Air Quality Index (AQI) of 21. The Air Quality Index is based on a value of 100 where 100 would be exceeding the health standard limit. Therefore, the pollutants measured are approximately five (5) times less than allowable. AQI readings in Marlboro Township can be expected to be similar to those recorded in surrounding areas.

- C. Site Geology Based on the Surficial Geology of New Jersey, surficial geology in the western corner of the site consists of Alluvium comprised of fine to coarse sand to clayey sand, gravel, silt, and minor clay and peat. Surficial geology across the rest of the site consists of Weathered Coastal Plain Formations comprised of exposed sand and clay Coastal Plain bedrock formations. Includes thin, patchy alluvium and colluvium, and pebbles left from erosion of surficial deposits. Other information regarding the site geology is provided in the Report of Geotechnical and Stormwater Basin Area Investigation prepared by Dynamic Earth, LLC, dated November 9, 2020 located in Appendix S.
- D. Soils Information regarding the site soils is provided in the Report of Geotechnical and Stormwater Basin Area Investigation prepared by Dynamic Earth, LLC, dated November 9, 2020 located in Appendix S.
- **E. Ground Cover** The subject parcel is currently undeveloped and relatively heavily wooded with trees and brush, and grass
- **F.** Flora & Fauna According to the NJGeoWeb database, there is no presence of endangered species based on the Natural Heritage Priority Map located in Appendix L.
- G. Drainage Information regarding the existing drainage is provided in the Stormwater Management, Groundwater Recharge & Water Quality Analysis prepared by Dynamic Engineering Consultants, PC Dated November 2020 located in Appendix T.
- **H.** Land Use As stated previously, the subject parcel is currently undeveloped and relatively heavily wooded with trees, brush, and grass.
- **I.** Vegetation The existing site vegetation consist of undeveloped, and relatively heavily wooded with trees, brush, and grass.
- J. Wildlife As previously stated, the existing site consists of undeveloped, wooded area. The proposed development will include four above ground basins, one on the southeast side, one on the northwest side, one on the southwest side, and one on the northeast corner of the lot. There is also one recharge basin at the south corner of the lot. These basins will not serve as a habitat for water dependent wildlife.

K. Archaeological & Historic Features – It is not anticipated that the proposed development will have a negative impact on any archaeological and/or historic features due to the fact that the existing site consists of undeveloped, wooded area.

According to NJDEP GIS mapping, the site is not located on or within the vicinity of a historic district or historic property.

III. SEWERAGE FACILITIES

Western Monmouth Utilities Authority & Bayshore Regional Sewerage Authority, confirmed the existing sanitary sewer line is located east and south of the subject property on Texas Road & Falson Lane and the sewer plant has plenty of capacity. There is an 8" sewer line running down Texas Road & Falson Lane.

The estimated sewer demand for the development as per NJAC 7:14A-23(a) is as follows:

Apartment (1 Bedroom) = (150 GPD/ Unit) * (96 Units) = 14,400 GPD Apartment (2 Bedroom) = (225 GPD/Unit) * (256 Units) = 57,600 GPD Apartment (3 Bedroom) = (300 GPD/Unit) * (35 Units) = 10,500 GPD TOTAL = approx. 82,500 GPD

It is important to note that an application with NJDEP will be required for this sewer service (NJDEP WQMP & NJDEP TWA – see attached WMUA Resolution Dated March 24, 2020 located in Appendix R).

IV. WATER SUPPLY

Water service will be provided to the development by way of connection to an existing 8" water main through Texas Road and Falson Lane. An 8" water line will be present onsite to service all 17 buildings. The water installation will be coordinated with and under the guidelines, regulations and specifications of CME Associates and the Township of Marlboro.

The NJDEP standard for domestic water demand for a one, two, and three bedroom apartment unit is 120, 175, and 275 gallons per day (GPD) per unit respectively, as specified in NJAC 5:21-5.2, Table 5.1. As such, the estimated domestic water demand for the development is as follows:

Apartment (1 Bedroom) = (120 GPD/ Unit) * (96 Units) = 11,520 GPD Apartment (2 Bedroom) = (175 GPD/Unit) * (256 Units) = 44,800 GPD Apartment (3 Bedroom) = (275 GPD/Unit) * (35 Units) = 9,625 GPD TOTAL = approx. 65,945 GPD

The subject site is within the Marlboro Township Water Utility Division service area. Our office has received a 'will serve' letter dated August 10, 2020, indicating that safe and proper water service is

available for the proposed project from the existing 8" water mains located within Texas Road and Falson Lane.

V. <u>SURFACE DRAINAGE</u>

The surface runoff from the majority of the subject site in the existing conditions is tributary to The Deep Run Tributary located to the west of the subject parcel.

The proposed stormwater management facilities for this project have been designed to mitigate the impacts on stormwater runoff from the proposed development in accordance with applicable aspects of the Marlboro Township Land Use Ordinance and NJAC 7:8.

Stormwater runoff from the majority of the proposed development is conveyed to the four (4) proposed above ground basins. The proposed detention basin, A2, is located in the southwestern portion of the property, and has been designed to detain and release stormwater runoff, through an outlet control structure at a controlled rate, in order to satisfy the stormwater quantity requirements set forth by NJAC 7:8. In addition, according to the standards set forth by the NJ Stormwater Best Management Practices, manufactured treatment device with 80% TSS removal will be installed prior to discharging to the existing wetlands area also known as Study Point 1. With the two structures in place, the stormwater runoff satisfies the 80% TSS removal rate set forth by NJAC 7:8 for water quality.

Stormwater runoff is also collected in an infiltration basin, A1, located in the northeastern portion of the lot. Stormwater runoff from this area of the proposed development includes the roof runoff dwelling unit buildings # 1 & 2 and the northeastern portion of the impervious asphalt drive aisles and parking lots. The recharge requirements are satisfied by the above ground infiltration basin by storing approximately 12" of water for recharge. The stormwater from basin A1 travels through the stormwater conveyance system and discharges to basin A3 before discharging to the existing wetlands located at Study Point 1.

Stormwater runoff from dwelling unit buildings # 12 - 16, the northwestern portion of the impervious asphalt drive aisles and parking lots, and the community sport courts, pool area, and community clubhouse is collected and released into detention basin A3. This basin has been designed to detain and release stormwater runoff, through an outlet control structure at a controlled rate, in order to satisfy the stormwater quantity requirements set forth by NJAC 7:8. In addition, according to the standards set forth by the NJ Stormwater Best Management Practices, manufactured treatment device with 80% TSS removal will be installed prior to discharging to the existing wetlands located at Study Point 1. With the two structures in place, the stormwater runoff satisfies the 80% TSS removal rate set forth by NJAC 7:8 for water quality.

Lastly, detention basin B1 is located in the southeastern portion of the site and is designed to detain stormwater runoff from dwelling unit buildings # 3 - 8 and the southeastern portion of the impervious

asphalt drive aisles and parking lots. This basin has been designed to detain and release stormwater runoff, through an outlet control structure at a controlled rate, in order to satisfy the stormwater quantity requirements set forth by NJAC 7:8. In addition, according to the standards set forth by the NJ Stormwater Best Management Practices, manufactured treatment device with 80% TSS removal will be installed prior to discharging to the existing ditch located at Study Point 3. With the two structures in place, the stormwater runoff satisfies the 80% TSS removal rate set forth by NJAC 7:8 for water quality.

Furthermore, the stormwater management design facilities attenuate peak flow rates for the proposed development area that satisfy the minimum peak flow reduction for the 2, 10 and 100-year storm frequencies as dictated by NJAC 7:8. With this stated, it is evident that the proposed development will not have a negative impact on the existing stormwater management system, water quality, or groundwater recharge on site or within the vicinity of the subject parcel.

Please refer to the accompanying Stormwater Management, Groundwater Recharge & Water Quality Analysis for further information.

VI. STREAM ENCROACHMENTS

Deep Run Tributary is located just beyond North West boundary of Block 146 Lot 25. It is important to note that the proposed project will not fill or divert a water channel, alter a stream, or repair or construct a bridge, culvert, reservoir, dam, wall, pipeline, or cable crossing. Our office is coordinating with DuBois Environmental Consultants, LLC to submit a NJDEP LOI Verification Application to verify that the subject parcel is located within a freshwater wetlands and/or transition area. No FHA is present on site per our FEMA FIRM map in Appendix C.

VII. SOLID WASTE DISPOSAL

The proposed development will be serviced by the Township of Marlboro Department of Public Works Solid Waste/Recycling Bureau. According to the Marlboro Township website, trash shall be picked up one a week and recycling shall be picked up every other week.

VIII. CRITICAL IMPACTS

A. Stream Corridors & Streams – Deep Run Tributary is located offsite to the northwest of the subject parcel. Our office is coordinating with DuBois Environmental Consultants, LLC to submit a NJDEP LOI Verification

Furthermore, the design of the project satisfies the water quality, stormwater quantity and groundwater recharge requirements set forth by NJAC 7:8 and the Township of Marlboro Land Use Ordinance.

- **B.** Wetlands According to the NJDEP NJ-GeoWeb freshwater wetlands are present on the subject parcel. A Letter Of Interpretation has been submitted to the NJDEP to verify the location of the wetlands and transition areas on the site.
- **C.** Estuaries There are no estuaries near the subject site.
- **D. Slopes Greater Than 20 Percent -** The subject parcel contains small isolated areas where the slope of land is greater than 20%. Soil erosion and sediment control measures shall be put into place in order to ensure steep slopes shall be stabilized. The proposed project serves to preserve the existing slopes greater than 20% to the maximum extent possible.
- E. High Acid or Highly Erodible Soils Based on the Report of Geotechnical and Stormwater Basin Area Investigation prepared by Dynamic Earth, LLC, dated November 9, 2020 located in Appendix S, there are no high acid or high erodible soils located on the subject parcel.
- **F.** Areas of High-Water Table As previously stated, according to the Report of Geotechnical and Stormwater Basin Area Investigation prepared by Dynamic Earth, LLC, dated November 9, 2020 located in Appendix S, the seasonal high groundwater was Evidence of seasonal high groundwater (based on soil mottling) was encountered within the soil profile pits at depths ranging between 3 feet and 11.1 feet below the ground surface from the test pits performed throughout the site. It is important to note that all finished floors and basins for the proposed development will be at least 1 FT above the groundwater table.

The planned development proposes to utilize three (3) detention basins, one (1) infiltration basin, five (5) recharge pits, and one (1) recharge basin to meet the stormwater recharge requirements due to the proposed development. As documented in the accompanying Stormwater Management, Groundwater Recharge & Water Quality Analysis prepared by Dynamic Engineering Consultants, PC Dated November 2020 located in Appendix T, the proposed basins have been designed to not have a negative impact on the existing drainage pattern, water quality, or groundwater recharge on site or within the vicinity of the subject parcel. The infiltration basins are a minimum of two (2) feet above the seasonal high-water table.

Therefore, the proposed development is not anticipated to have any negative impacts on the groundwater conditions or aquifer recharge areas in the surrounding area.

G. Mature Stands of Native Vegetation – The parcel is wooded which may contain some mature stands of native vegetation. The proposed project will preserve as much of the existing mature native vegetation as feasible. The project will utilize a silt fence and tree protection fences to ensure that

vegetation located outside the limit of disturbance shall not be harmed. Additional soil erosion and sediment control measures shall be utilized to protect the existing vegetation.

Furthermore, the proposed landscaping design has been prepared to provide aesthetic improvement to the interior and perimeter of the site through use of approved native species and other low maintenance vegetation. Landscaping improvements incorporated into the development meet the Township of Marlboro Ordinance requirements.

H. Aquifer Recharge and Discharge Areas - Based on information obtained from the NJDEP NJ-GeoWeb, there is no surficial aquifer present at the site.

As previously mentioned, the proposed development has been designed with provisions for the safe and efficient control of stormwater runoff in a manner that will not adversely impact the existing drainage patterns, adjacent roadways, or adjacent parcels. The TSS removal obligations set forth by the Marlboro Township Land Use Ordinance and NJAC 7:8 have been satisfied by utilizing above ground detention basins, manufactured treatment devices, and an above ground infiltration basin to achieve the 80% TSS required removal rate for the development.

In addition, the project promotes groundwater recharge into the sub-surface soils. The infiltration basin has been designed to infiltrate the post development recharge deficit, thereby complying with the groundwater recharge aspects of NJAC 7:8. Maintenance activities include inspection of outfalls, inspection of outlet control structures, inspection of basin bottoms and implementation of remediation activities to address and mitigate conditions that would otherwise negatively affect operations of the stormwater management facility.

I. Archaeologically Sensitive Areas – According to NJDEP GeoWeb Mapping, the subject site does not contain any Archaeologically Sensitive Areas.

J. List of Permits, Licenses & Approvals:

- Marlboro Township Planning Board
- Monmouth County Planning Board
- Freehold Soil Conservation District
- Bayshore Regional Sewerage Authority
- Western Monmouth Utilities Authority
- NJDEP Wetlands LOI Verification
- NJDEP WQMP
- NJDEP TWA
- NJDEP BWSE

IX. SUMMARY ENVIRONMENTAL ASSESSMENT

A tributary of The Deep Run Stream is located offsite to the northwest of the subject parcel; however, the proposed development will not adversely affect the runoff associated with The Deep Run Stream and its tributaries.

Freshwater wetlands are present on the subject parcel and is currently pending an LOI Verification.

The stormwater runoff quantity, water quality and groundwater recharge standards set forth by the Stormwater Management Regulations (NJAC 7:8) have been satisfied by proposing three (3) detention basins, one (1) infiltration basin, and one (1) recharge basin to mitigate the impact of the proposed development on stormwater runoff. The proposed stormwater management facilities serve to provide for water quality measures that meet and exceed the design standards set forth by the NJ Stormwater Best Management Practices and therefore provides a minimum TSS Removal Rate of 80%.

By using the infiltration basin, recharge basin, and five (5) recharge pits, the site is able to meet the recharge requirements set forth by NJAC 7:8.

The proposed project will be serviced by the Western Monmouth Utility Authority's sanitary sewer system and Marlboro Township Water Utility Division water supply and shall comply with all State and Municipal guidelines, regulations and specifications required.

The proposed development will be serviced by the Township of Marlboro Department of Public Works Solid Waste/Recycling Bureau, according to the Marlboro Township website, trash shall be picked up once a week and recycling shall be picked up every other week.

The following steps will be taken to avoid/minimize adverse environmental impacts during construction and operation:

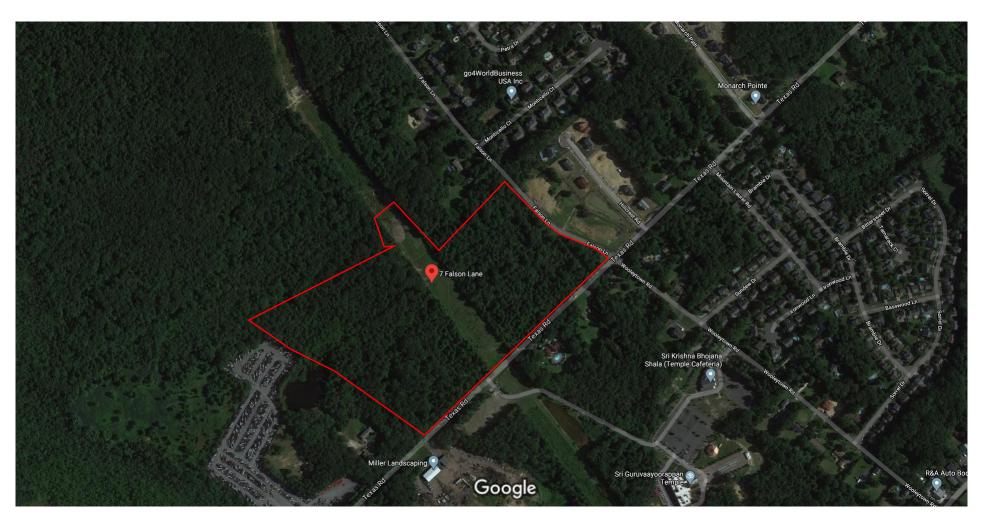
- Effective implementation of soil erosion and sediment control measures, including tree preservation fencing, haybales, silt fencing, and inlet filters, as well as, utilization of Stormwater best management practices should successfully minimize the site development's impact on existing natural resources.
- Strict adherence to the limits of disturbance parameters and stabilizing the construction entrances on Texas Road to reduce the amount of soil being brought off-site.
- Every reasonable effort will be made to protect the existing natural environment with the ultimate goal of providing for minimal disruption throughout the course of construction and after completion.

APPENDIX

A. AERIAL MAP

Google Maps 7 Falson Lane, Marlboro, NJ

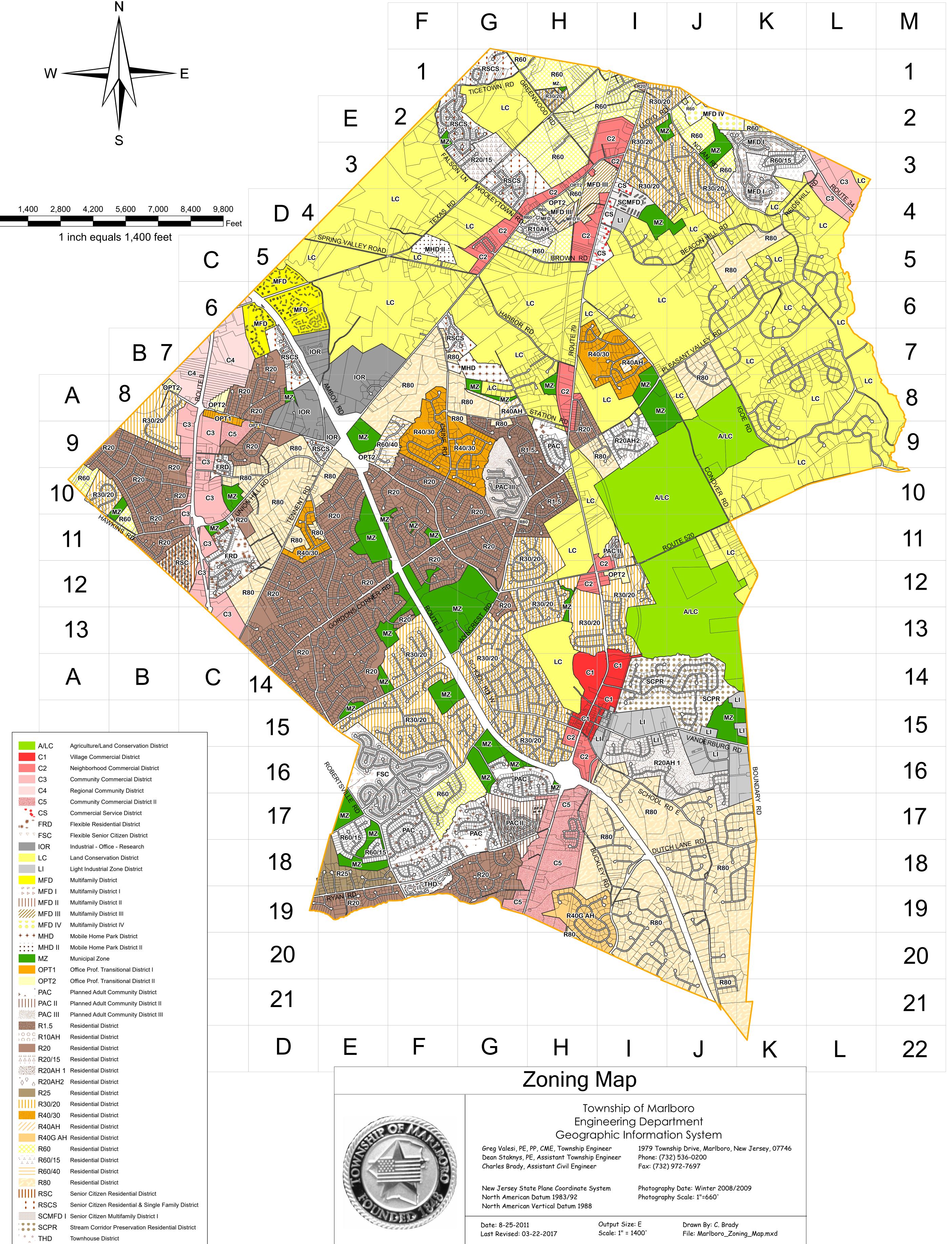
Pallu Site



Imagery ©2020 Maxar Technologies, USDA Farm Service Agency, Map data ©2020 200 ft 🗆

B. ZONE MAP

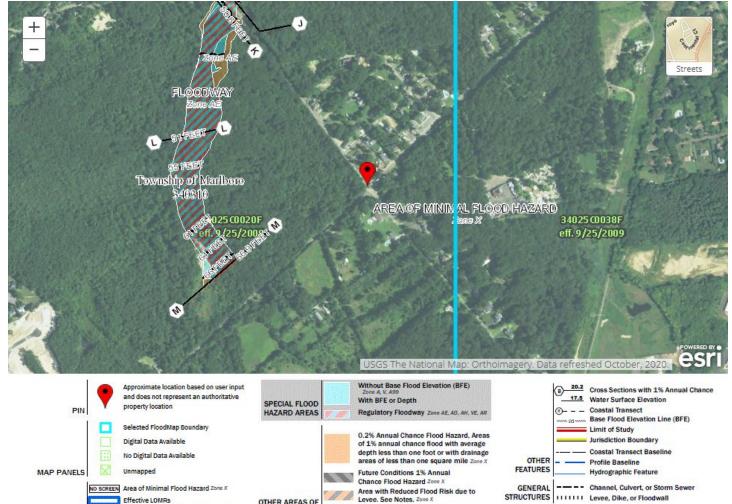




		9 100			
	Township of Marlboro Engineering Department Geographic Information System				
	Greg Valesi, PE, PP, CME, Township Engineer Dean Staknys, PE, Assistant Township Engineer Charles Brady, Assistant Civil Engineer		1979 Township Drive, Marlboro, New Jersey, 07746 Phone: (732) 536-0200 Fax: (732) 972-7697		
	New Jersey State Plane Coordinate System North American Datum 1983/92 North American Vertical Datum 1988		Photography Date: Winter 2008/2009 Photography Scale: 1"=660'		
	Date: 8-25-2011 Last Revised: 03-22-2017	Output Siz Scale: 1" =		Drawn By: C. Brady File: Marlboro_Zoning_Map.mxd	

BASEMAP COPYRIGHT, 1997, 2003 COUNTY OF MONMOUTH

C. FEMA FIRM MAP



FLOOD HAZARD Area with Flood Risk due to Levee Zone D

STRUCTURES IIIIII Levee, Dike, or Floodwall

OTHER AREAS

Effective LOMRs

Othenwise Protected Area

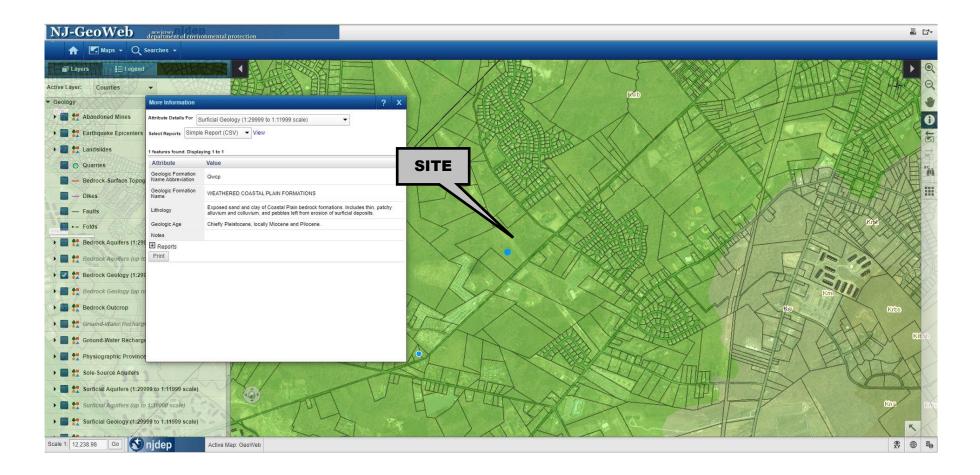
Area of Undetermined Flood Hazard Zone D

OTHER AREAS OF

D. NJDEP GIS MAPPING – BEDROCK GEOLOGY MAP



NJDEP GeoWeb – Bedrock Geology Map



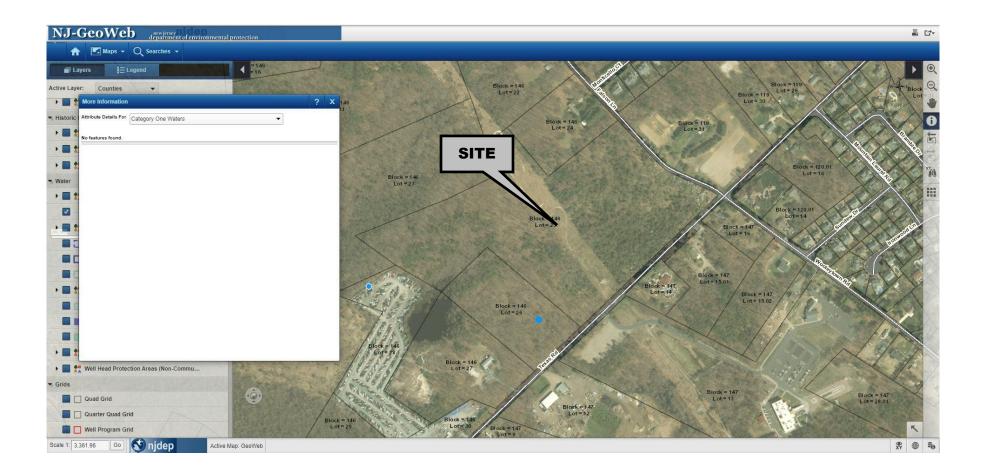
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245 Main Street, Suite 110, Chester, NJ 07930 T. 908-879-9229 8 Robbins Street, Suite 102, Toms River, NJ 08753 T. 732-974-0198 826 Newtown Yardley Rd., Suite 201, Newtown, PA 18940 T. 267-685-0276

E. NJDEP GIS MAPPING – CATEGORY 1 WATERS & HUC14 MAP



NJDEP GeoWeb – Category 1 Waters Map



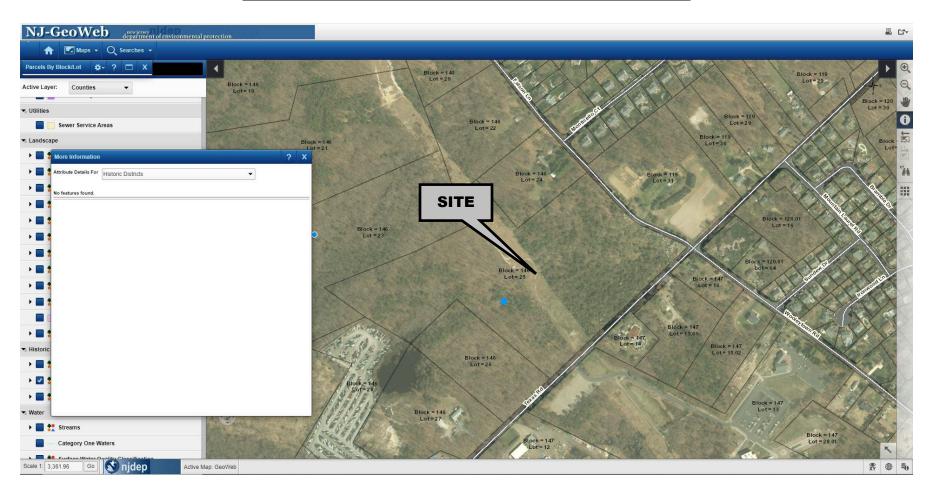
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F. NJDEP GIS MAPPING – HISTORIC PROPERTIES MAP



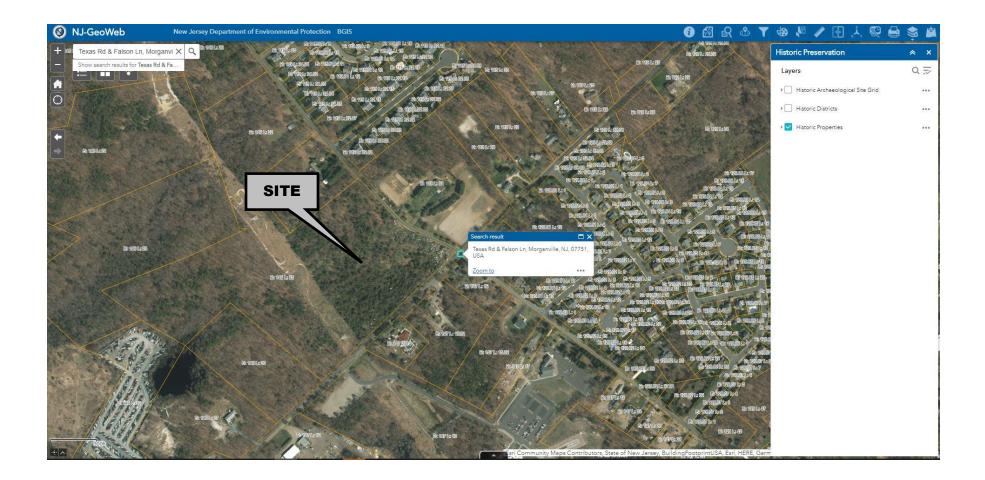
NJDEP GeoWeb – Historic Districts



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NJDEP GeoWeb – Historic Properties



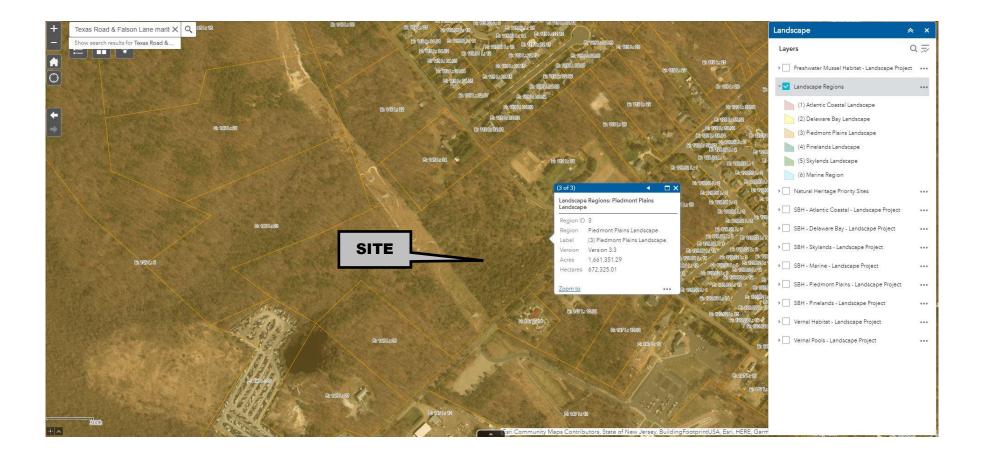
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G. NJDEP GIS MAPPING – LANDSCAPE MAP



NJDEP GeoWeb – Landscape Map



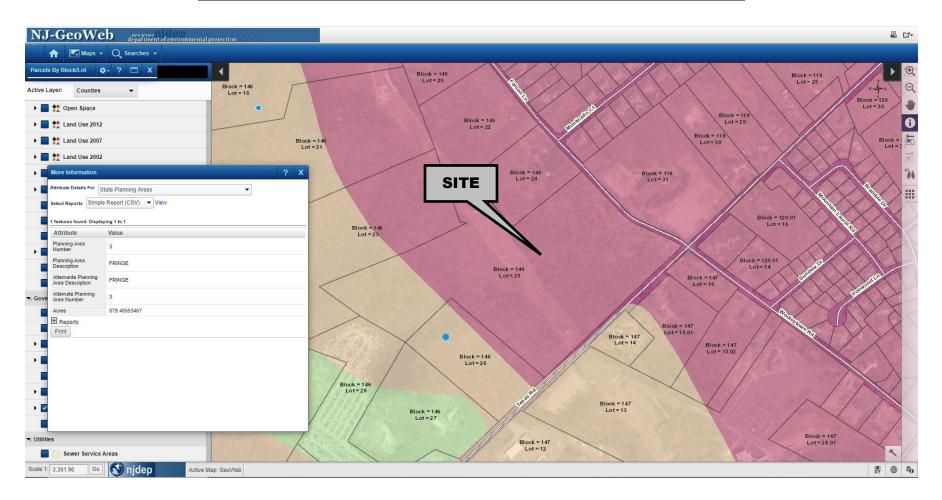
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H. NJDEP GIS MAPPING – STATE PLANNING AREAS MAP



NJDEP GeoWeb – State Planning Area Map

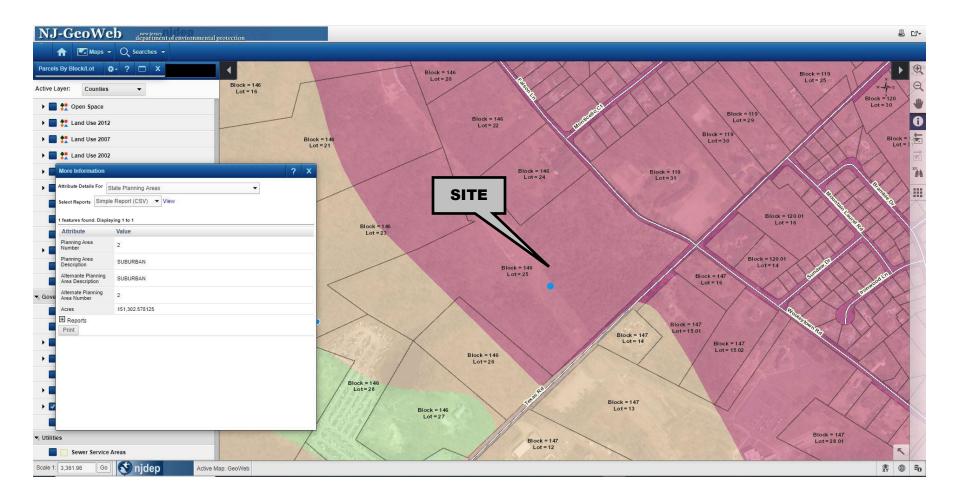


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NJDEP GeoWeb – State Planning Area Map



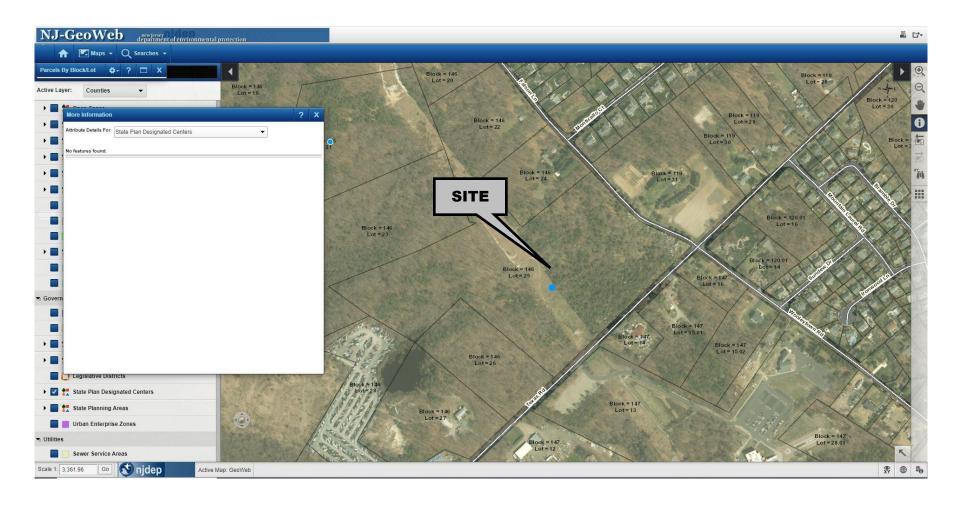
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I. NJDEP GIS MAPPING – STATE PLAN CENTERS MAP



NJDEP GeoWeb – State Plan Centers Map



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J. NJDEP GIS MAPPING – STREAMS AND WATERBODIES MAP



NJDEP GeoWeb – Streams and Waterbodies Map



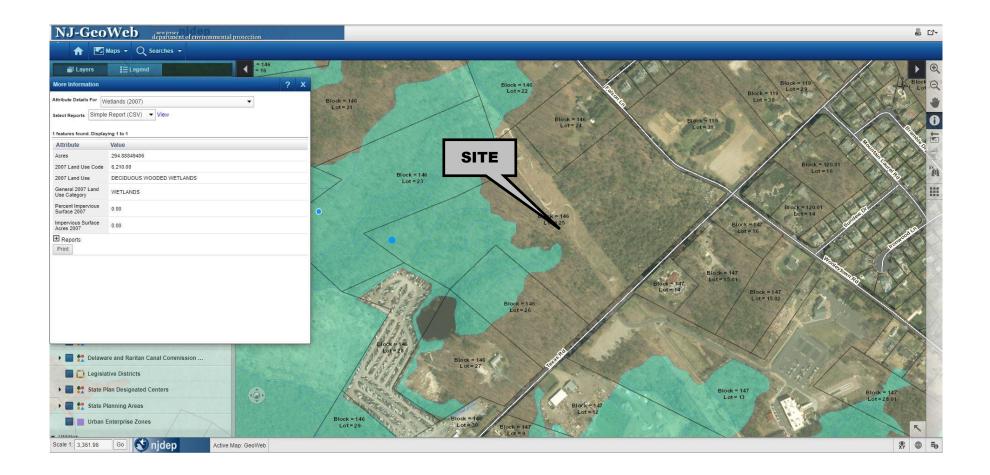
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K. NJDEP GIS MAPPING – SURFICIAL AQUIFER



NJDEP GeoWeb – Wetlands (2012)



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L. NJDEP GIS MAPPING – NATURAL HERITAGE PRIORITY SITES MAP



NJDEP GeoWeb – Natural Heritage Priority Map



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M. SURFICIAL GEOLOGY MAPS (NJDEP GEOWEB NJ GEOLOGY)



NJDEP GeoWeb – Surficial Geology Map

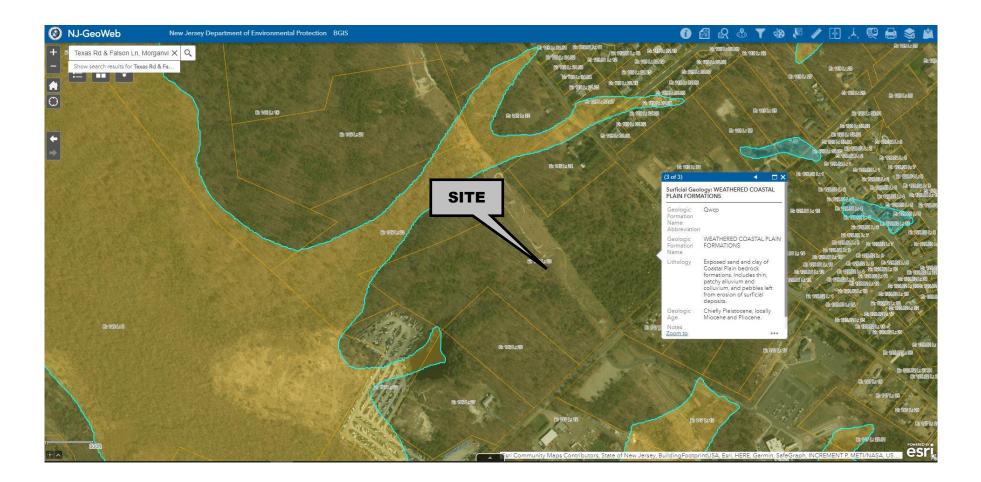


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245 Main Street, Suite 110, Chester, NJ 07930 T. 908-879-9229 8 Robbins Street, Suite 102, Toms River, NJ 08753 T. 732-974-0198 826 Newtown Yardley Rd., Suite 201, Newtown, PA 18940 T. 267-685-0276



NJDEP GeoWeb – Surficial Geology Map

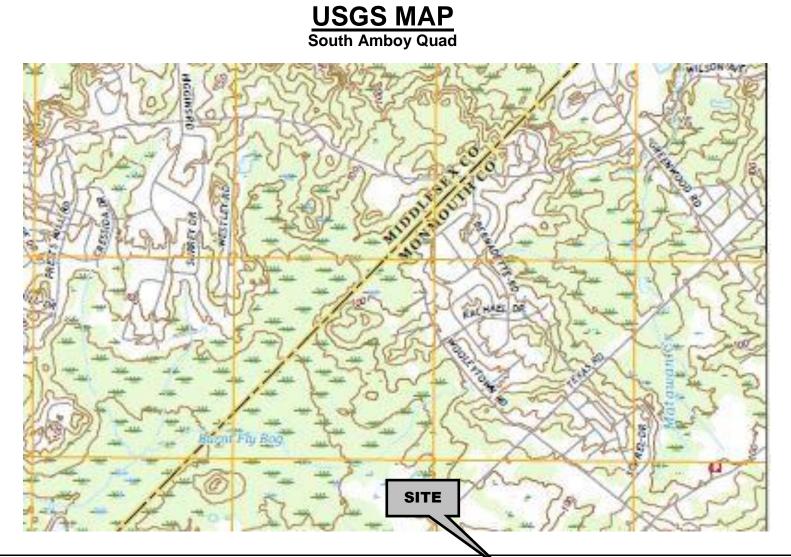


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N. USGS MAP WITH SITE IDENTIFIED





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O. CME ASSOCIATES WILL SERVE LETTER



DAVID C. SMITH, P.E. ACTING DIRECTOR, WATER & SEWER

Trenton Water Works Department of Water and Sewer P.O. Box 528, Trenton, NJ 08604-0528 609-989-3208 FAX: 609-989-3943

January 16, 2020

Steven R. Cattani, P.E. Dynamic Engineering 1904 Main Street Lake Como, NJ 07719

W. REED GUSCIORA

MAYOR

20 -1

RE: 58 Thomas Rhodes Industrial Drive, Block 1520, lot 33, Hamilton Township, Mercer County, New Jersey.

Dear Mr. Cattani:

Our review of the above referenced subject reveals that safe and proper water service is available from an existing 10" water main in Thomas Rhodes Industrial Drive adjacent to the proposed project site. A copy of the Trenton Water Works' (TWW) distribution system map for the subject area is enclosed for your reference.

It is the responsibility of the engineer designing the project to determine if the proposed water service off of the existing 10" water main will provide sufficient volume and pressure to meet required demands of the proposed project. If fire sprinkler system is needed for this project then plans for the installation of fire line and/or domestic service shall be sent to the TWW Engineering Office for Backflow Preventer (BFP) and meter installation review. The TWW requires AWWA approved BFP with lead free detector check meter. This meter shall be a Sensus SR with an ECR register and touch pad device for outside reading. If fire flow test information is needed, the design engineer shall perform the flow test by using his or her own gauges in the presence of a TWW representative. The schedule of flow test to witness can be set up by calling TWW at (609) 989-3212.

A letter from the design engineer of the fire sprinkler system shall be provided to the TWW that the system has been designed in accordance with approved design drawing and prevailing standards. In addition, the letter shall state the hydraulic data of the TWW's water system used in the design calculation with flow test data including name of the person who witness the flow test from TWW. The tapping locations and detail for the water services shall be submitted for the TWW review. The fireline and domestic services installation shall be per TWW's requirements after the job is approved by TWW. It is also the responsibility of the owner/developer to verify from Engineering Department of Hamilton Township that the road is not under a street opening moratorium at the time of the construction.

The water service application shall be filled out with Billing Office of TWW to establish fire line

RE: 58 Thomas Rhodes Industrial Drive, Block 1520, lot 33, Hamilton Township, Mercer County, New Jersey. Page 2 of 2

and domestic services account. The Billing Office is located at 333 Cortland Street, Trenton, NJ 08638.

If you have any questions, you may contact Jose Cotto, Water Repairer II, by calling (609) 989-3444.

Sincerely,

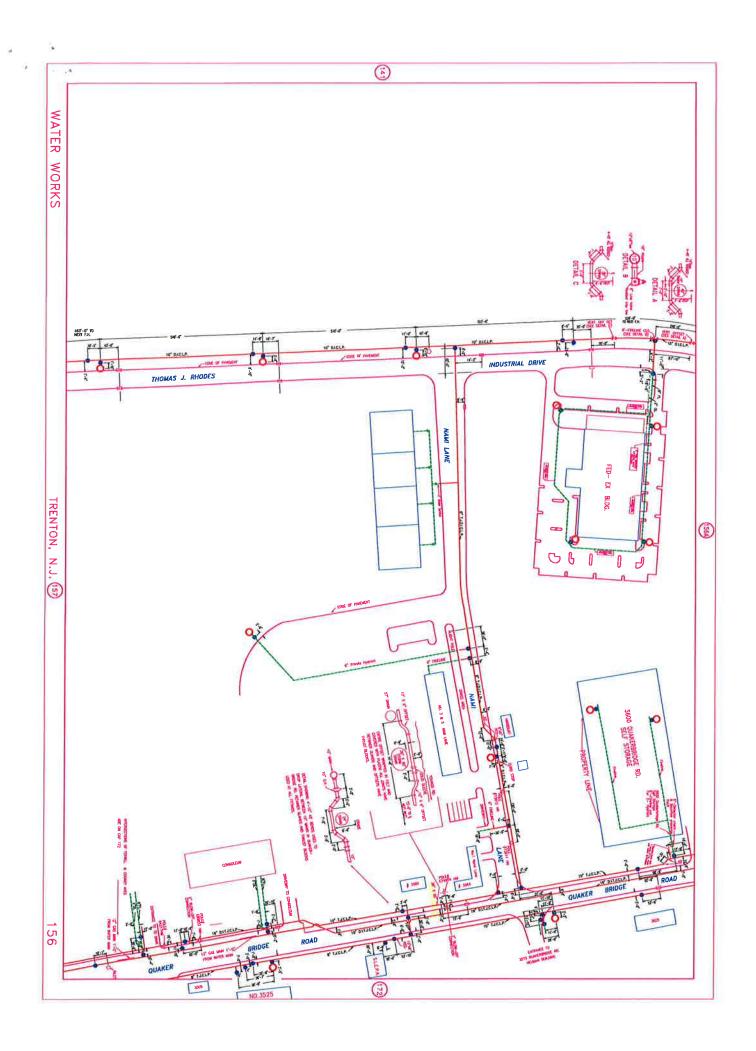
Dilip Patel, P.E. Supervising Engineer

encl: 1

8

a,

cc: David Smith, P.E. Jose Cotto



P. NRCS HYDROLOGICAL SOIL GROUP



Natural Resources **Conservation Service** Web Soil Survey National Cooperative Soil Survey

7/23/2020 Page 1 of 3

MAP LEGEND		MAP INFORMATION	
Area of Interest (AOI) Area of Interest (AOI) Soils Soil Map Unit Polygons Area of Interest (AOI) Soil Map Unit Polygons Soil Map Unit Polygons Soil Map Unit Polygons Soil Map Unit Points Soil Map Unit Points Special Features Image: Special Point Peatures Image:	Spoil Area Stony Spot Very Stony Spot <t< th=""><th>MAP INFORMATION The soil surveys that comprise your AOI were mapped at 1:24,000. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as th Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data</th></t<>	MAP INFORMATION The soil surveys that comprise your AOI were mapped at 1:24,000. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as th Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data	
 Marsh of swamp Mine or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot 	Aenar motography	of the version date(s) listed below. Soil Survey Area: Monmouth County, New Jersey Survey Area Data: Version 14, Jun 1, 2020 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Jun 29, 2019—Jul 16, 2019 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.	



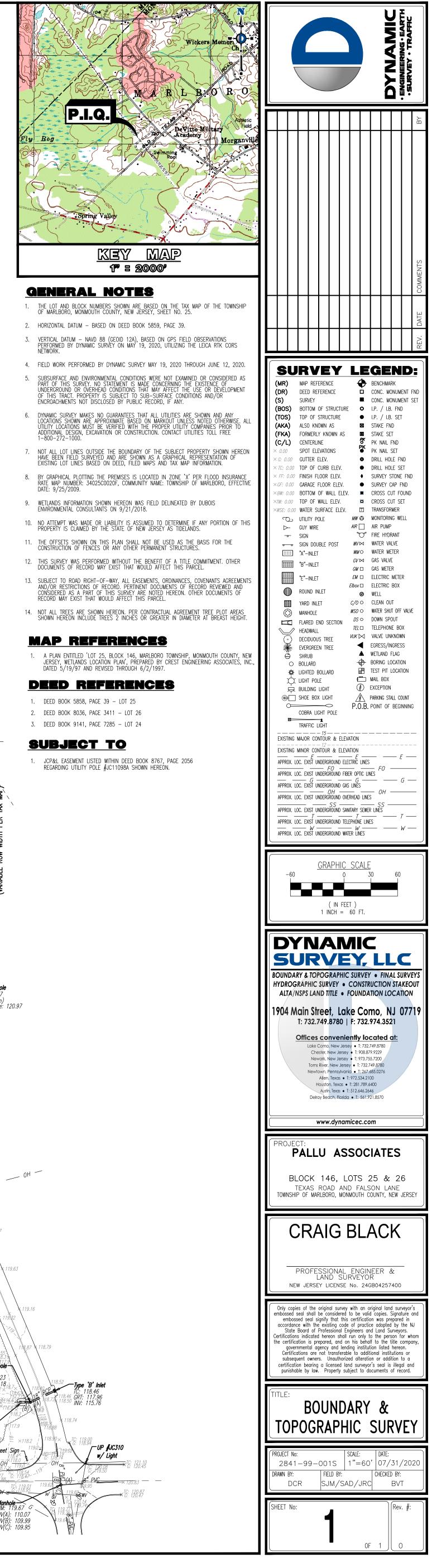
Map Unit Legend

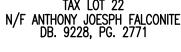
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AtsA	Atsion sand, 0 to 2 percent slopes, Northern Coastal Plain	2.0	5.5%
EveB	Evesboro sand, 0 to 5 percent slopes	0.5	1.4%
KemB	Keyport sandy loam, 2 to 5 percent slopes	11.1	30.7%
LakB	Lakehurst sand, 0 to 5 percent slopes	16.1	44.6%
LasB	Lakewood sand, 0 to 5 percent slopes	0.0	0.0%
LasC	Lakewood sand, 5 to 10 percent slopes	4.8	13.3%
MakAt	Manahawkin muck, 0 to 2 percent slopes, frequently flooded	0.1	0.4%
SacE	Sassafras sandy loam, 15 to 25 percent slopes	1.5	4.2%
Totals for Area of Interest		36.2	100.0%

Q. BOUNDARY & TOPOGRAPHIC SURVEY PREPARED BY DYNAMIC SURVEY, LLC, DATED JULY 31, 2020

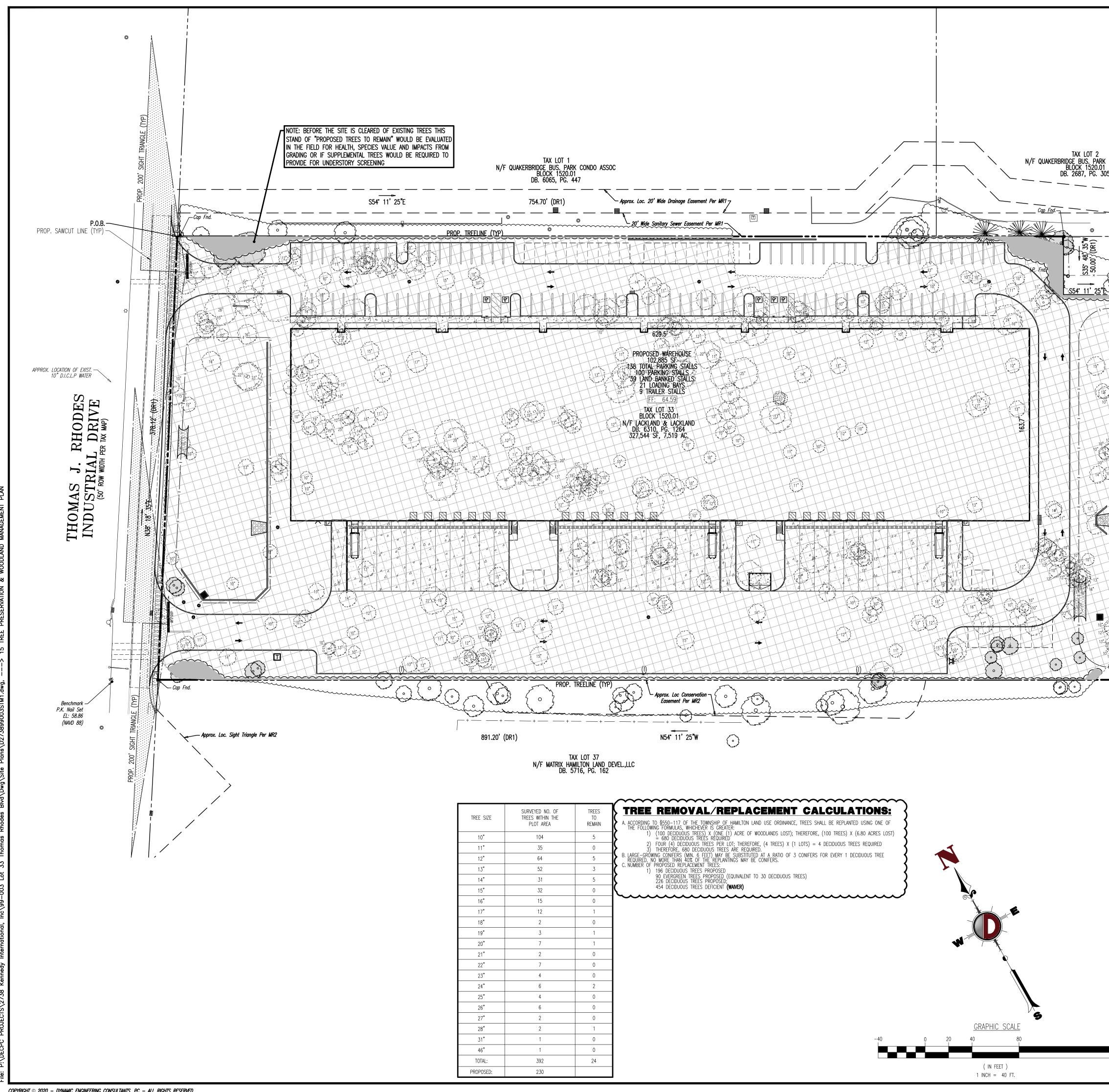


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R. WMUA RESOLUTION FOR WQMP DATED MARCH 24, 2020



33 33 23. Lot A A 03

 CONDO ASSIC 		TREE PRESERVATION & WOODLAND MANAGEMENT NOTES
 I. B. C. S. C. DERN KY (M. 1994). A STER SHEEK A. SHEEK OF AND DERREA C. LAND. SHEEK OF CHARMAN AND THE LAND THE STER SHEEK AND DERREA C. LAND. I. B. A. A. STER SHEEK OF THE LAND THE STER SHEEK AND DERREA C. LAND. I. B. A. A. STER SHEEK OF THE LAND THE STER SHEEK AND DERREA C. LAND. I. B. A. A. STER SHEEK OF THE LAND. THE STER SHEEK AND DERREA C. LAND. I. B. A. STER SHEEK OF THE STER SHEEK OF THE STER SHEEK AND DERREA C. LAND. I. B. A. STER SHEEK OF THE STER SHEEK OF THE STER SHEEK AND DERREA C. LAND. I. B. A. STER SHEEK OF THE ST		THE PRE-CONSTRUCTION PHASE OF DEVELOPMENT IS THE PERIOD OF TIME BETWEEN PLAN APPROVAL AND THE BEGINNING OF CLEARING AND GRADING. AT THIS TIME, THE INITIAL STEPS OF THE PROTECTION PLAN LISTED BELOW MUST BE PUT IN PLACE. THEY MUST BE COMPLETED BEFORE THE PLANNING DEPARTMENT ENFORCEMENT AND MONITORING STAFF WILL AUTHORIZE THE START OF CLEARING AND GRADING. AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS, THE APPLICANT MUST REQUEST A PRE-CONSTRUCTION MEETING AT THE CONSTRUCTION SITE. THE ATTENDANCE AT THIS MEETING SHOULD INCLUDE:
 CONDOLASSOC <lic< td=""><td></td><td> THE ON-SITE (SUBCONTRACTOR) FOREMAN, OR SUPERINTENDENT IN CHARGE OF LAND DISTURBING, CLEARING, SEDIMENT CONTROL AND GRADING WORK; THE TREE PROFESSIONAL CONTRACTED BY THE DEVELOPER (IF APPLICABLE); AND </td></lic<>		 THE ON-SITE (SUBCONTRACTOR) FOREMAN, OR SUPERINTENDENT IN CHARGE OF LAND DISTURBING, CLEARING, SEDIMENT CONTROL AND GRADING WORK; THE TREE PROFESSIONAL CONTRACTED BY THE DEVELOPER (IF APPLICABLE); AND
 Bit Market Wards Wards and a strate and and a strate and a st		THE PURPOSE OF THE MEETING WILL BE TO FIELD VERIFY THE LIMITS OF CLEARING SPECIFIED ON THE APPROVED PLAN, AUTHORIZE NECESSARY ADJUSTMENTS AND AUTHORIZE INSTALLATION OF PROTECTION DEVICES. ENFORCEMENT STAFF WILL ALSO DISCUSS THE VALUE AND IMPORTANCE OF THE PRESERVATION AREAS AND OUTLINE RESPONSIBILITIES AND THE POSSIBILITY OF VIOLATIONS PENALTIES. AN ADDITIONAL INSPECTION MAY BE REQUIRED AFTER INSTALLATION OF THE PROTECTED DEVICES AND/OR AFTER INITIAL CLEARING (IF SELECTIVE CLEARING IS PLANNED) BEFORE CONSTRUCTION IS
 HOLLAN, COUNTRY, SHORE CONSTRUCTIONS CHARGE CONSTRUCTION CONTROL OF MANAGEMENT RES. HOLLAN, COUNTRY, LATARDS, BUSINA, MORTES FROM CONTRACT, C. MARKEN, MARKEN, MARKEN,		TREES ALONG THE EDGE OF WOODED RETENTION AREAS AND SPECIMEN TREES WHICH ARE EITHER PART OF THE WOODED RETENTION AREA OR WHICH STAND ALONE ARE SUBJECT TO VARIOUS STRESSES DURING DEVELOPMENT. THESE TREES MUST BE EVALUATED BY A QUALIFIED TREE CARE PROFESSIONAL TO DETERMINE IF THEY WILL EXPERIENCE ANY OF THE
 W for brokes, provide a start of the start of th	<u> </u>	 INSTALLATION, EXCAVATION, SOIL COMPACTION; ALTERED NATURAL CONDITIONS: HYDROLOGY CHANGES, REMOVAL OF SURROUNDING TREES; DAMAGING CONSTRUCTION ACTIVITIES: BLASTING, VIBRATIONS FROM EQUIPMENT;
 • GRE PRIME - FUND, BUCK THAT AND MADE AND THE ALL OF THE STORMART OF		THE APPLICANT MUST PROVIDE A LIST OF RECOMMENDED STRESS REDUCTION MEASURES FOR EACH SPECIMEN TREE. THESE MEASURES MUST BE TAKEN AS FAR IN ADVANCE OF CONSTRUCTION IN ORDER TO BETTER THE TREE'S CHANCES
 C. INSLUDIO NO PROCESSING ON CONSTRUCT PART NA AVOIDED RETINION AREA. THE RELIDES STING OF CONSTRUCT OF UNITY INTEL ACCESS FRAME, STANDARD REAL REAL AVOIDED RETINION AREA. THE RELIDES STING OF CONSTRUCT OF UNITY INTEL ACCESS FRAME, STANDARD REAL REAL AVOIDED RETINION AREA. THE RELIDES STING OF CONSTRUCT OF UNITY INTEL ACCESS FRAME, STANDARD REAL AVOIDED RETINION AREA. THE RELIDES STING OF CONSTRUCT OF UNITY INTEL ACCESS FRAME, STANDARD REAL AVOIDED RETINION AREA. THE ACCESS FRAME REAL AVOIDED OF UNITY INTEL ACCESS FRAME, STANDARD REAL AVOIDED REAL A		 CROWN REDUCTION OR PRUNING – REMOVE NO MORE THAN 1/3 OF THE CROWN USING ACCEPTABLE PRUNING STANDARDS AT THE SPECIFIED TIMES OF THE YEAR. WATERING – DESIGN A WATERING SYSTEM AS DIRECTED BY A TREE CARE PROFESSIONAL.
Image constraints Provide and the state of the sta		C. INSTALLATION OF PROTECTION DEVICES CONSTRUCTION ACTIVITIES CANNOT TAKE PLACE IN A WOODED RETENTION AREA. THIS INCLUDES SITING OR CONSTRUCTION OF UTILITY LINES, ACCESS ROADS, STAGING AREAS, STORAGE AREAS, TEMPORARY PARKING, STORMWATER MANAGEMENT FACILITIES, IMPERVIOUS SURFACES AND LIMITS OF GRADING. RETENTION AREAS WHICH ARE LOST DUE TO THESE TYPES OF IMPACTS MUST BE COMPENSATED BY OTHER RETENTION AREAS AND MAY SUBJECT THE APPLICANT TO THE NON-COMPLIANCE PENALTIES.
 CONVI-LINK FENCE; SNOW FERING; SNOW FERING; SNOW FERING; SNOW FERING; SNOW FERING; SNOW FERING; STRAY BALE COTH; FERE COTH; STRAY BALE DWC; FERE COTH; STRAY BALE DWC; FERENCE; DWC; FERENCE; STRAY, DWC; STRAY BALE DWC; FERENCE; STRAY, SNOW EE COTH; FERENCE; STRAY, SNOW EE CONSTRUCTION SUCH THAT WHEN A SUBJECT TO STREED. FERENCE; STRAY, SNOW EE CONSTRUCTION SUCH THAT WHEN A SUBJECT TO STREED. FERENCE; STRAY, SNOW EE CONSTRUCTION SUCH THAT WHEN A SUBJECT THE THESE WILL DWC; FERENCE; STRAY, SNOW EE CONSTRUCTION SUCH THAT WHEN A SUBJECT THE THESE WILL DWC; FERENCE; STRAY, SNOW EE CONSTRUCTION SUCH THAT WHENCH STREED; FERENCE; STRAY, SNOW EE CONSTRUCTION SUCH THAT WILL PERSON PERSON FOR STREED; FERENCE; STRAY, SNOW EE CONSTRUCTION FOR THAT WILL PERSON PERSON FOR STREED; FERENCE; STRAY, SNOW EE CONSTRUCTION FOR THAT WILL PERSON PERSON FOR STREED; FERENCE; STRAY, SNOW EE CONSTRUCTION FOR THAT WILL PERSON PERSON FOR STREED; FERENCE; STRAY, SNOW EE CONSTRUCTION FOR THE INCLUSION FOR THE STRAY WILL PERSON PERSON FOR STREED; FERENCE; STRAY, SNOW EE CONSTRUCTION FOR THE STRAY WILL PERSON PERSON FOR STREED; FERENCE; STRAY, SNOW EE CONSTRUCTION FOR THE STRAY WILL PERSON PERSON FOR STREED; FERENCE; SNOW EES AND EXCENT FOR THE STRAY WILL STRAY WILL AND STRAY WI		AREA. THEY ARE TO BE PUT IN PLACE PRIOR TO ANY LAND CLEARING OR GRADING AND SHALL BE MAINTAINED DURING THE ENTIRE CONSTRUCTION PHASE INCLUDING FINE GRADING AND FINAL SEEDING. NO EQUIPMENT, MACHINERY, VEHICLES, MATERIALS OR EXCESSIVE PEDESTRIAN TRAFFIC SHALL BE ALLOWED WITHIN THE PROTECTED AREAS. NONE OF THESE DEVICES SHALL BE IN ANY WAY ANCHORED OR ATTACHED TO THE TREES TO BE SAVED.
TAX LOT 32 N/F LIFE STORAGE, LP BLOCK ISSOL1 DB. 6194, PG. 1835 • STRAW BALE DIKE; • URSEY BARRIES • URSEY BARRIES • URSEY BARRIES • URSEY BARRIES • ROOT AERATION SYSTEMS;	4	 CHAIN-LINK FENCE; SNOW FENCING; ORANGE PLASTIC FENCING;
 DB. 6194, PG. 1835 JERSY' BARRERS JERS' BARRERS JERSY' BARRERS JERSY' BARRERS JERSY' BARRERS JERSY' BARRERS JERS' BARRERS <l< td=""><td>│ │ N/F LIFE STORAC − ↓ BLOCK 1520</td><td>2 • STRAW BALE DIKE; GE, LP • PERIMETER DIKE OR SWALE;</td></l<>	│ │ N/F LIFE STORAC − ↓ BLOCK 1520	2 • STRAW BALE DIKE; GE, LP • PERIMETER DIKE OR SWALE;
 D. CONSTRUCTION PHASE DURING THE LIFE OF THE PROJECT, ENFORCEMENT STAFF WILL PERFORM PERIODIC INSPECTIONS. THESE INSPECTIONS SHALL TYPICALLY TAKE PLACE DURING AND JUST AFTER THE CLEARING HAS TAKEN PLACE, AFTER MAJOR STORM EVENT DURING AND AFTER TREES HAVE BEEN NEWLY PLANTED AND IN RESPONSE TO COMPLAINTS FROM CITIZENS OR OTHERS ENFORCEMENT STAFF WILL GIVE WRITTEN NOTICE OF ANY PROBLEMS TO THE PROJECT MANAGER WHO WILL BE EXPECTE TO CORRECT THEM IN A TIMELY MANNER. RECOMMENDATIONS FROM A QUALIFIED TREE CARE PROFESSIONAL MAY BE REQUIRED IF INSPECTION STAFF DETERMINES THAT IT IS NECESSARY. FAILURE TO RESPOND APPROPRIATELY TO WRITTE NOTICE WILL CAUSE THE SITE TO BE PLACED IN NON-COMPLIANCE AND PENALTIES SHALL BE APPLIED. PROBLEMS CAUSED BY CONSTRUCTION IMPACTS MAY INCLUDE: DEAD, DYING OR HAZARDOUS TREES OR TREE LIMBS; PROTECTIVE BARRIERS NEED REPAR OR REPLACEMENT; STORAGE OF MATERIAL, STOCKPILES OR TRASH IN RETENTION AREAS; EXCESSIVE FLOODING OR SILTATION OF THE RETENTION AREAS; OVER-CLEARING 	DB. 6194, PG.	 JERSEY BARRIERS JERSEY BARRIERS THESE MATERIALS SHOULD BE TAKEN WHEN A SIGNIFICANT PORTION OF THE CRITICAL ROOT ZONE OF A SPECIMEN TREE OR RETENTION EDGE IS IMPACTED BY CONSTRUCTION SUCH THAT WITHOUT THESE MEASURES THE TREES WILL DIE. THESE DEVICES INCLUDE: ROOT AERATION SYSTEMS; RETAINING WALLS; RAISED SIDEWALKS;
 PROTECTIVE BARRIERS NEED REPAIR OR REPLACEMENT; STORAGE OF MATERIAL, STOCKPILES OR TRASH IN RETENTION AREAS; EXCESSIVE FLOODING OR SILTATION OF THE RETENTION AREAS; OVER-CLEARING 		D. CONSTRUCTION PHASE DURING THE LIFE OF THE PROJECT, ENFORCEMENT STAFF WILL PERFORM PERIODIC INSPECTIONS. THESE INSPECTIONS SHALL TYPICALLY TAKE PLACE DURING AND JUST AFTER THE CLEARING HAS TAKEN PLACE, AFTER MAJOR STORM EVENTS, DURING AND AFTER TREES HAVE BEEN NEWLY PLANTED AND IN RESPONSE TO COMPLAINTS FROM CITIZENS OR OTHERS. ENFORCEMENT STAFF WILL GIVE WRITTEN NOTICE OF ANY PROBLEMS TO THE PROJECT MANAGER WHO WILL BE EXPECTED TO CORRECT THEM IN A TIMELY MANNER. RECOMMENDATIONS FROM A QUALIFIED TREE CARE PROFESSIONAL MAY BE REQUIRED IF INSPECTION STAFF DETERMINES THAT IT IS NECESSARY. FAILURE TO RESPOND APPROPRIATELY TO WRITTEN NOTICE WILL CAUSE THE SITE TO BE PLACED IN NON-COMPLIANCE AND PENALTIES SHALL BE APPLIED. PROBLEMS CAUSED BY CONSTRUCTION IMPACTS MAY INCLUDE:
10 WOODLANDS MANAGEMENT		 PROTECTIVE BARRIERS NEED REPAIR OR REPLACEMENT; STORAGE OF MATERIAL, STOCKPILES OR TRASH IN RETENTION AREAS; EXCESSIVE FLOODING OR SILTATION OF THE RETENTION AREAS;
THE APPLICANT WILL POST A PERFORMANCE BOND AND MAINTENANCE BOND (IF REQUIRED) TO COVER THE COST OF THE REMOVAL OF DEAD AND HAZARDOUS TREES ASSOCIATED WITH THE UNEW TO DIEBACK FROM ASSOCIATED		

LEG	END		TOWNSHIP APP	PLICATION NO. 20-01-00
	AREA OF WOODS TO BE REMOVED (296,407 SF, 6.81 AC)		<u>REVIEWED BY:</u>	
	AREA OF WOODS TO REMAIN	TOWNSHIP PLANNER		DATE
	(4,396 SF, 0.10 AC)	TOWNSHIP ENGINEER		DATE
	This plan set is for permit	ting purposes only and r	nay not be used for	CONSTRUCTIO
COMPLETENESS COMMENTS	Lake Como, New Jersey T: 732.974.0198 C Allen, Texas	Control of the second s	IRONMENTAL • SURVEY • ey T: 973.755.7200 Toms River, New Jersey iston, Texas T: 281.789.6400 rida T: 561.921.8570 D MANAGEMEN JOB No: 2738-99-003 DRAWN BY: AJW	
20 REV. PER	STEVEN R. CATTANI	, mercer county, new jersey	DESIGNED BY: SRC CHECKED BY: SRC CHECKED BY: 	SHEET No:
1 03/05/		PROFESSIONAL ENGINEER	PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON COLLECTORY OF PREPARING TO DISTURE THE LEARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT	0F 28

S. REPORT OF GEOTECHNICAL AND STORMWATER BASIN AREA INVESTIGATION PREPARED BY DYNAMIC EARTH, LLC DATED NOVEMBER 9, 2020 (SEPARATE COVER)

T. STORMWATER MANAGEMENT, GROUNDWATER RECHARGE & WATER QUALITY ANALYSIS PREPARED BY DYNAMIC ENGINEERING CONSULTANTS, PC DATED NOVEMBER 2020 (SEPARATE COVER)

U. PRELIMINARY AND FINAL SITE PLANS PREPARED BY DYNAMIC ENGINEERING CONSULTANTS, PC DATED NOVEMBER 9, 2020 (SEPARATE COVER)