

## **Environmental Impact Statement**

## **Project:**

Proposed Church
3313 Highway 33
Block 3301, Lot 4
Township of Neptune
Monmouth County, New Jersey

## **Applicant:**

Galilee Eglise Adventiste, Inc. 3313 Highway 33 Neptune, New Jersey 07753

December 13, 2022



#### **EXECUTIVE SUMMARY**

This Environmental Impact Statement has been prepared in support of the Preliminary and Final Site Plan application for the Galilee Eglise Adventiste, Inc. church project. The overall project site consists of 3.24 acres and is located on the north side of Corlies Avenue (NJ State Highway 33), approximately 2,200 feet east of West Bangs Avenue in the Township of Neptune, Monmouth County, New Jersey. The tract is also known as 3313 Highway 33 and designated as Block 3301, Lot 4 on the official tax map of the Township of Neptune.

The proposed development is shown on the Preliminary and Final Site Plan prepared by B&G Engineering, LLC, dated December 5, 2022.

The project will not cause significant adverse impacts on the topographic, soil, geological, ecological, hydrologic, water quality, air quality or noise environments at the site or in the surrounding area. Freshwater wetlands boundaries have been delineated and verification by the NJDEP Division of Land Resource Protection is pending. Unavoidable adverse environmental impacts include an increase from 0.21 acre to approximately 1.02 acres of impervious surfaces on the site (32 percent of the overall site). The site plan includes utilization of an on-site stormwater management basin to reduce the peak runoff of stormwater on the site. Impacts to surface water quality will be minimized by the treatment of stormwater within the on-site stormwater management facility. Potential impacts from air pollution, water pollution and noise will be short-term and minimal.

Overall, the proposed project plans are compatible with the environmental conditions at the site, the surrounding residential development and Neptune Township Zoning Ordinance and Master Plan.



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#### 1.0 Project Location and Description

This document has been prepared in accordance with the requirements of Article VIII, Section 811.01 of the Land Development Ordinance for the Township of Neptune in support of the Preliminary and Final Site Plan and Minor Subdivision application for Galilee Eglise Adventiste, Inc. (hereinafter referred to as the "project"). The document analyzes the existing conditions and potential impacts associated with the project on this site as shown on the Preliminary and Final Site Plan prepared by B&G Engineering, LLC, dated December 5, 2022. The Site Plan is included in **Appendix D**.

#### 1.1 Site Location

The 3.24-acre tract is located on the north side of Corlies Avenue (NJ State Highway 33), approximately 2,200 feet east of West Bangs Avenue in the Township of Neptune, Monmouth County, New Jersey (hereinafter referred to as the "project site"). The tract is also known as 3313 Highway 33 and designated as Block 3301, Lot 4 on the official tax map of the Township of Neptune. The project site contains an existing residence with an attached 1-car garage, several detached accessory structures and undeveloped woodlands. Topographically, the project site generally slopes from south to north. The location of the project site is shown on the USGS Topographic Map (Asbury Park, NJ Quadrangle), the Monmouth County Road Map, the Neptune Township Tax Map and Neptune Township Zoning Map in Figures 1 through 4, respectively, which follow.

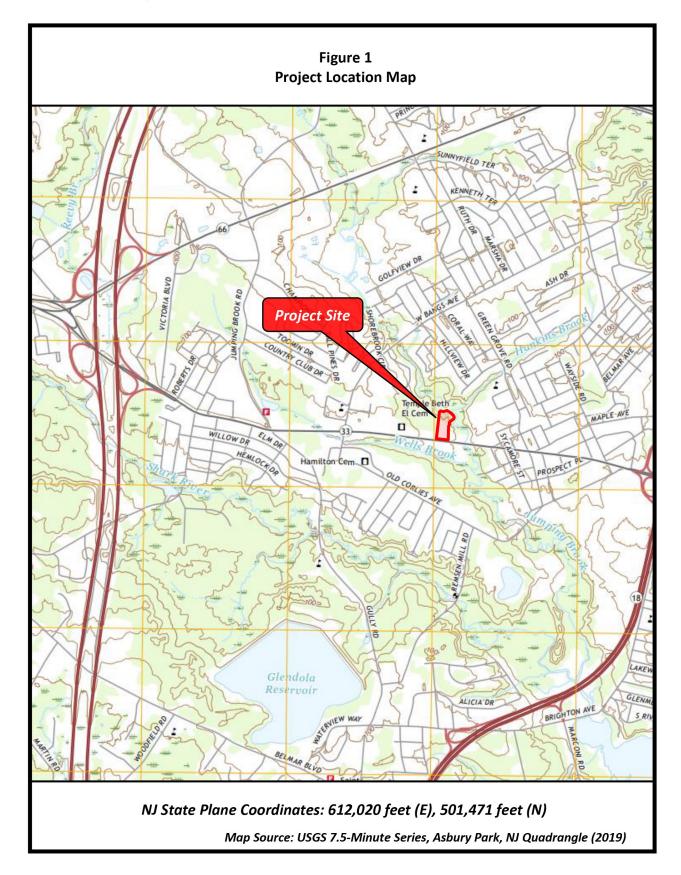
#### 1.2 Zoning

The project site is situated within the R-2 (Low-Density Single-Family Residential) Zone of Neptune Township. Adjacent properties to the west, north and east are also situated within the R-2 Zone. Adjacent properties to the south are situated within the C-5 (Route 33W Commercial) Zone. According to the Neptune Township Land Development Ordinance, permitted uses in the R-2 Zone include Places of Worship. The church use proposed for the project site is a permitted use of this zone.

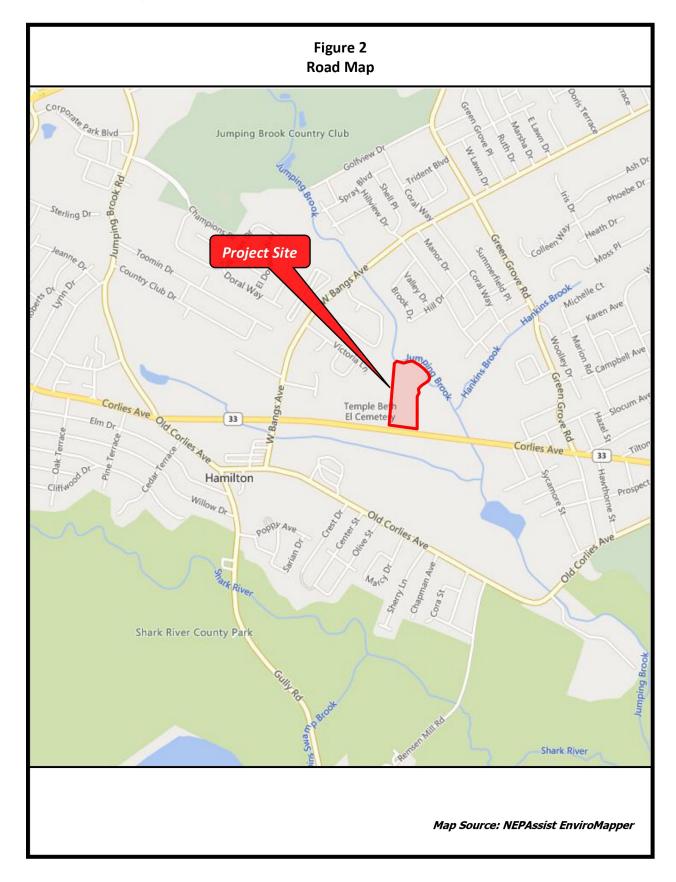
#### 1.3 Project Description

The project site will be developed in accordance with the requirements of the R-2 Zoning District. The applicant proposes to construct a 1-story, 4,000-square foot church sanctuary, with a basement, adjacent to the existing 1.5-story dwelling. The church sanctuary will be physically connected to the existing house (garage section), and the existing house will be converted to religious office spaces and ancillary uses. The project also includes an improved vehicular driveway from Highway 33, the provision for a paved parking area accommodating 64 vehicles, the installation of new stormwater facilities, including an infiltration basin designed in accordance with the New Jersey Stormwater Management Rules (N.J.A.C. 7:8).

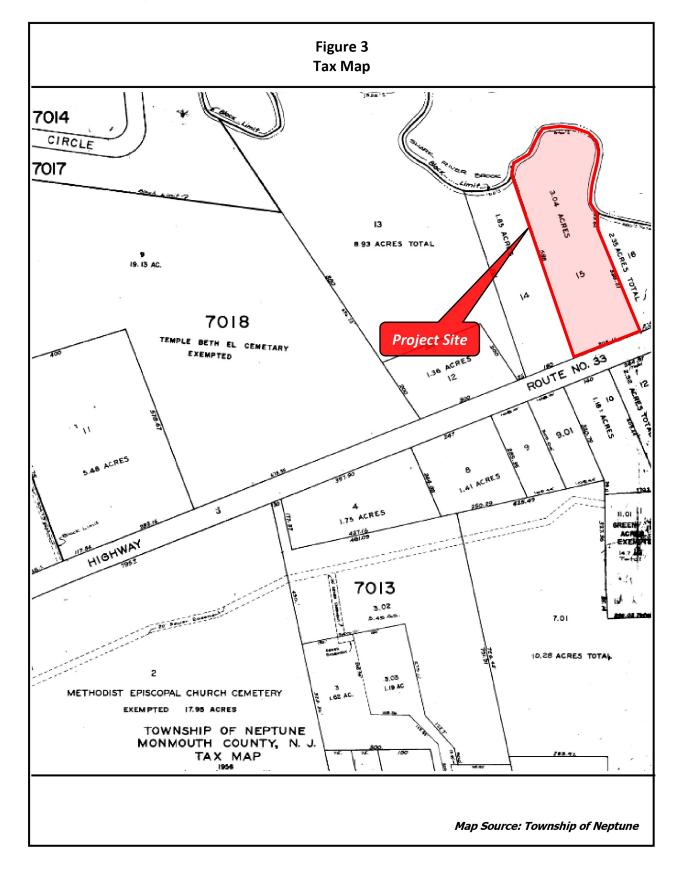




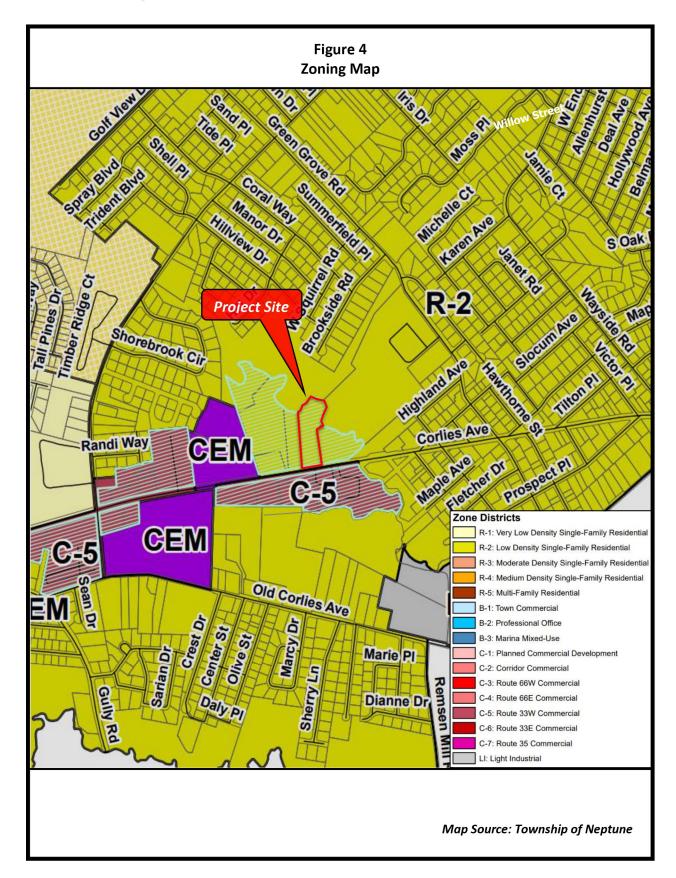














#### 1.4 Service Demands

The proposed development will not generate any new residents to Neptune Township. The need for additional police, fire and rescue personnel is not anticipated, as a result of this project. The impact on public services is anticipated to be minimal.

#### 1.5 Water Supply

The existing facility receives its potable water service from an on-site well. The proposed water demand will slightly increase for the proposed sanctuary use. The existing well will be able to accommodate the additional demand for potable water use.

#### 1.6 Sewerage Systems

The existing facility discharges its sanitary wastewater via a 4-inch sanitary lateral to the municipal sewer utility's system located along Highway 33. The proposed increase in sewer discharge to the system will only slightly increase with the addition of the proposed sanctuary.

#### 1.7 Solid Waste/Recycling

The Township of Neptune provides solid waste and recycling collection services to the Township. During construction, solid waste handling and removal will be handled by the contractor.

#### 1.8 Operation and Construction Phases

#### 1.8.1 Construction Phase

The construction sequence is as follows:

- > Install all preconstruction soil erosion and sediment control measures.
- Clear site as shown on the project site plan with appropriate soil erosion control facilities.
- Provide and install temporary stabilization measures.
- Installation of infiltration basin.
- Installation of proposed utilities.
- Installation of additional inlet protections at new inlets.
- Construction of sanctuary building.
- Site grading for parking lot.
- Installation of concrete curb and sidewalks.
- Installation of pavement base courses.
- Installation of pavement surface courses.
- Regrading and stabilization of lawn areas.
- Installation of landscaping material.
- > Removal of soil erosion and sediment control measures.



Qualified contracting firms for various disciplines will be retained to oversee the day-to-day construction of the overall site development. Construction will be completed in accordance with the approved construction plan. Contractors experienced with building construction, paving and earthwork will be employed.

Construction access for the project site will be from the existing driveway at Highway 33. A stabilized construction entrance in accordance with the "Standards for Soil Erosion and Sediment Control in New Jersey" will be utilized. The areas of the project site where improvements are proposed will be stripped of any existing vegetation and topsoil. All deleterious materials encountered below grade will be removed. Any soft or unsuitable materials will also be removed. Any subsurface utilities and or abandoned structures present below the ground surface will be relocated or removed. The area of the building, as well as any proposed pavement or concrete areas will be proof-rolled and compacted. Any imported structural material, if required, will be placed in lifts not exceeding 10-inches and compacted.

All necessary precautions and preventative measures will be implemented during construction to prevent adverse environmental impacts to the greatest extent practicable. An approved Soil Erosion and Sediment Control Plan will be followed to reduce erosion and sedimentation. The contractors, during dry weather, will water areas prone to dust, especially areas used by trucks, to control dust. Construction will be performed in accordance with local, State and Federal OSHA safety regulations. The side slopes of any excavations will be maintained at a one-to-one slope above the water table and even less steep below the water table.

The General Services Administration has developed Construction-Noise Specifications noise levels not to be exceeded at a distance of 50 feet for different types of construction equipment. Most construction equipment will maintain a noise level of 75 dB(A). Pneumatic tools, scrapers and pavers may be as loud as 80 dB(A). Occupational noise levels of 90 dB(A) for periods of eight hours are permitted. All Township ordinances dictating the times and conditions for such activities will be complied with. The use of construction equipment will be limited to the hours permitted by the Township of Neptune.

#### 1.8.2 Operational Phase

Galilee Eglise Adventiste, Inc. will be responsible for the maintenance of the stormwater management facility during and after construction.



#### 1.9 Required Licenses, Permits and Approvals

The following municipal, county and state approvals and permits are required for the project:

- Preliminary and Final Site Plan approval Neptune Township
- Building Permit approval Neptune Township
- Road Opening Permit approval Neptune Township
- Performance Bond Neptune Township
- Public Works Department approval Neptune Township
- Planning Board approval Monmouth County
- Minor Access Permit NJDOT
- > Soil Erosion and Sediment Control Plan Certification Freehold Soil Conservation District
- Request for Authorization (RFA) for NJPDES Construction Stormwater General Permit (5G3) -NJDEP Division of Water Quality
- Letter of Interpretation (pending) NJDEP Division of Land Resource Protection
- Freshwater Wetlands General Permit 7 and Transition Area Waiver: Averaging Plan (pending)
   NJDEP Division of Land Resource Protection.



#### 2.0 Description of Existing Environmental Conditions and Assessment of Environmental Impact

#### 2.1 Topography/Slopes

According to the United States Geological Survey (USGS) 7.5-Minute, Asbury Park, NJ Quadrangle, the elevations on the subject site range from approximately 46 feet above mean sea level (msl) in the southern portion near Highway 33 to approximately 28 feet above mean sea level (msl) in the northern portion near Jumping Brook. A copy of the current USGS topographic map is presented as Figure 1. There are no unusual topographic features on the property. The project will involve the minor re-grading in order to accommodate site drainage and utilities, as well as providing adequate grade for the proposed sanctuary.

#### 2.2 Geology

Local geologic conditions were identified from the Rutgers Engineering Soil Map for Monmouth County. According to the Bedrock Geologic Map of Southern and Central New Jersey, the site is underlain by the Kirkwood Formation formed in the Lower Miocene Period. The formation consists of quartz sands overlying pro-delta clays. No geologic features will be disturbed during construction of the project.

#### 2.3 Soils

The U.S. Department of Agriculture and the Soil Conservation Service (SCS), in cooperation with the New Jersey Agricultural Experiment Station, has prepared a Soil Survey for Monmouth County, New Jersey. This survey contains data regarding soils and shallow subsurface conditions throughout the County. This information is useful at the planning level to draw general conclusions about the suitability of a site for certain land uses. According to the "Soil Survey of Monmouth County, New Jersey" the two (2) soil types that underly the project site include: Humaquepts, 0 to 3 percent slopes, frequently flooded (HumAt) and Lakehurst sand, 0 to 5 percent slopes (LakB).

Humaquepts consist of poorly-drained soils formed in floodplains or concave footslopes and toeslopes. Slope ranges from 0 to 3 percent. The seasonal high-water table is estimated to be near the surface.

Lakehurst sand consist of moderately well-drained soils formed on flats and terraces. Slope ranges from 0 to 5 percent. The seasonal high-water table is estimated to be 18 to 42 inches below the surface.

The Soils Map is included as Figure 5, which follows.



Figure 5 Soils Map **Project Site** <u>Legend</u> HumAt – Humaquepts, 0 to 3 percent slopes, frequently flooded LakB – Lakehurst sand, 0 to 5 percent slopes Map Source: USDA NRCS Web Soil Survey (2020)



#### 2.4 Hydrology

#### 2.4.1 Surface Waters

Jumping Brook flows along the northern and northeastern boundary of the subject site.

The natural hydrology of the tract is such that a majority of the existing drainage is directed towards the freshwater wetlands area in the northern portion of the project site and eventually the Jumping Brook. Some of the pre-development runoff also flows towards Highway 33 and to the adjacent residential property to the west. The waters of Jumping Brook receive the designation of FW-2/NT/SE1 in the NJDEP Surface Water Quality Standards N.J.A.C 7:9B-4.1 et seq. (last amended April 6, 2020). This designation means that Jumping Brook waters are not reserved for trout production or maintenance and are not designated as Category 1 waters. The proposed project will not impact Jumping Brook or its associated riparian buffer (50 feet from top of bank). No development is proposed within 50 feet of the banks of Jumping Brook.

#### 2.4.1 Flood Hazard Areas

According to FEMA's Flood Insurance Rate Map Community Panel No. 34025 C0329G, included as Figure 6, and the NJDEP Flood Hazard Area Map included as Figure 7, the northernmost portion of project site contains mapped flood hazard areas. According to the FEMA Map, the 1 percent annual chance flood elevation (100-year flood elevation) is indicated to be 38 feet above mean sea level. However, pursuant to the New Jersey Flood Hazard AREA Control Act rules (N.J.A.C. 7:13), the NJDEP Flood Hazard Area Map for Jumping Brook supersedes the FEMA Map for the established New Jersey Flood Hazard Area Design Flood (NJFHADF) limit. The NJFHADF limit is indicated to be in the northern portion of the site. No development is proposed within the regulated flood hazard area.

#### 2.5 Water Quality

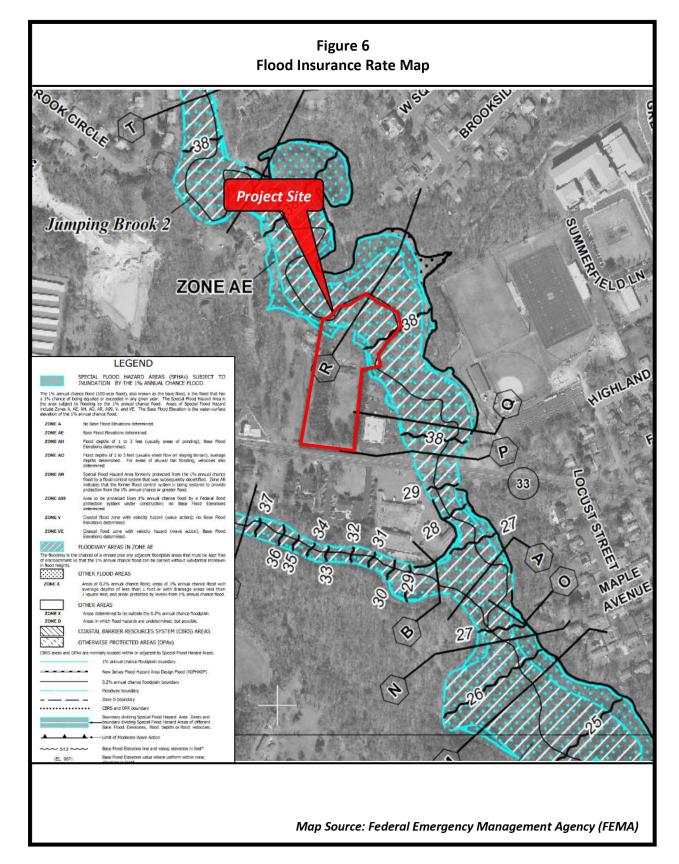
An infiltration basin system has been designed and is proposed to be constructed in the northern portion of the project site to mitigate the effects of the increase in impervious cover on the subject site post-redevelopment. The system has been designed to provide stormwater management control for all site improvements.

In compliance with the municipal ordinance, there will be no increase, as compared to the preconstruction condition, in the peak runoff rates of stormwater leaving the site for the two-, ten-, and 100-year storm events and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site.

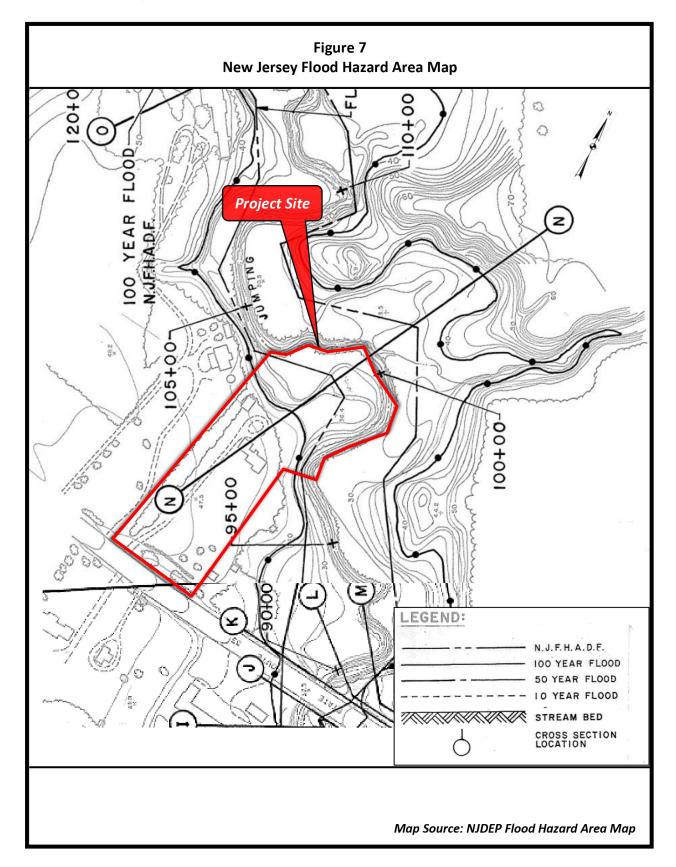
A majority of the stormwater runoff from the subject site is directed to the proposed on-site infiltration basin. Some post-development runoff will continue to flow off-site un-detained. However, negative impacts to downstream resources are not anticipated.

A separate Stormwater Management Report prepared by B&G Engineering, LLC, dated November 29, 2022, has been submitted under separate cover.











#### 2.6 Vegetation

The project site currently consists of wooded areas, forested wetlands and developed areas. The following community types were identified for the property:

#### 2.6.1 Wetland Communities

Wetlands are defined by the U.S. Army Corps of Engineers (USACE) and Environmental Protection Agency (USEPA), respectively as:

"Wetlands are those areas that are inundated or saturated with surface or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted to life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas." (33 <u>C.F.R.</u> Section 328.3 and 40 <u>C.F.R.</u> Section 230.3)

This definition emphasizes three characteristics needed for the creation of wetlands. Hydrophytic vegetation, hydric soils and hydrology are indicative of wetland areas. The NJDEP, Division of Land Resource Protection regulates the disturbance of wetlands and the filling of open waters under the Freshwater Wetlands Protection Act within the State of New Jersey. The NJDEP has adopted the Federal Manual for Identifying and Delineating Jurisdictional Wetlands, effective January 1989, as the technical basis for identifying and delineating freshwater wetlands in the State of New Jersey.

Hydrophytic Vegetation (Hydrophytes) is defined as plants growing in water or on a substrate that is at least periodically deficient in oxygen (anaerobic) due to excessive water content; may represent the entire population of a species or only a subset of specially adapted individuals; plants typically adapted to wetland and aquatic habitats. The U.S. Fish and Wildlife Service has developed a classification system that assigns a wetland indicator status according to a particular plant's affinity to wetlands.

**Plant Affinity for Wetland Conditions** 

Classification	Symbol	Occurrence in Wetlands
Obligate Wetland	OBL	> 99%
Facultative Wetland	FACW	67% - 99%
Facultative	FAC	34% - 66%
Facultative Upland	FACU	1% - 33%
Obligate Upland	UPL	< 1%



The wetland indicator status should not be equated to degrees of wetness. Many obligate wetland species occur in permanently or semi permanently flooded wetlands, but a number of obligates also occur and some are restricted to wetlands which are temporarily or seasonally flooded. The facultative upland species include a diverse collection of plants which range from weedy species adapted to exist in a number of environmentally stressful or disturbed sites (including wetlands) to species in which a portion of the gene pool (an ecotype) always occur in wetlands.

Both the weedy and ecotype representatives of the facultative upland category occur in seasonally and semi permanently flooded wetlands.

An area has hydrophytic vegetation when 1) the dominant species from all strata within the plant community exceed 50% of OBL, FACW and FAC species or 2) a frequency analysis of all species within the community yields a prevalence index value of 3.0 or less (where OBL = 1.0, FACW = 2.0, FAC = 3.0, FACU = 4.0 and UPL = 5.0).

Hydric soils are defined as soils that are saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part; soils that favor the growth and reproduction of hydrophytes. Soils are considered hydric when they are saturated and reduced for a period of seven days or more during the growing season, which is defined by soil temperature being greater than 41°F at a depth of 20 inches below the surface.

Hydrology is the presence of water either in the form of flooding, inundation or saturation at some point during an average rainfall year for the period of seven days or more during the growing season. The water may come from ground water discharge, direct precipitation, tidal or overbank flooding, or surface water runoff. Wetland hydrology is the most difficult of the three-wetland criteria to establish due to daily, seasonal and annual changes. Indicators of wetland hydrology come in several forms including recorded data such as aerial photographs, stream/tide gauges, soil surveys, floodplain data and historical data. Field indicators include the visual observation of inundation and soil saturation, morphological plant adaptations, oxidized rhizospheres, water marks, drainage patterns, drift lines, surface scouring, sediment deposits, bare areas and water-stained leaves.

An on-site wetland investigation was performed by The Catalyst Group to determine the presence of, and delineate the extent of, wetland habitats. Freshwater wetlands on the site were determined to fall within the jurisdiction of the NJDEP, Division of Land Resource Protection, in accordance with the Freshwater Wetlands Protection Act Rules, (N.J.A.C. 7:7A).



#### Wetland Area A

Wetland Area "A" is a forested wetland located in the northern portion of the subject site, generally adjacent to and associated with Jumping Brook. This area has been delineated by wetland flags WA-1 through WA-23. Wetland Area "A" is dominated by hydrophytic vegetation species such as Sweetgum (*Liquidambar styraciflua*, FACW), American Elm (*Ulmus americana*, FAC), Roundleaf Greenbriar (*Smilax rotundifolia*, FAC), and Swamp White Oak (*Quercus bicolor*, FACW). These dominant species are commonly indicative of freshwater wetland habitat. Wetland Area "A" is bounded on the north side by Jumping Brook, a perennial stream within the Whale Pond Brook/Shark River/Wreck Pond Brook watershed.

Delineated freshwater wetlands areas are shown on the project Site Plan in Appendix A.

Freshwater wetlands will be confirmed by the NJDEP Division of Land Resource Protection through their Letter of Interpretation (LOI) process. The LOI application was submitted on October 24, 2022.

The project will require the authorization of a Freshwater Wetlands General Permit No. 7 for the disturbance/fill of the swales; and a Transition Area Waiver (Averaging Plan) for the modification (balancing) of the freshwater wetlands buffer to accommodate site grading. The project design meets the criteria for issuance of these permits by the NJDEP. A copy of the Application for NJDEP Freshwater Wetlands General Permit and Transition Area Waiver (Averaging Plan) will be submitted under separate cover when complete.

#### **NJDEP Permits Required**

Permit/Authorization	Proposed Disturbance	Disturbance Permitted		
FWW General Permit 7	133 sf (0.003 ac.)	Up to 1 acre		
FWW Transition Area Averaging Plan				
Transition Area Reduction	1,442 sf			
Transition Area Compensation	1,632 sf	Transition Area Must Balance (at a minimum)		
Total Additional On-Site Transition Area	190 sf	,		

#### 2.6.2 Upland Communities

Upland areas were identified on the remainder of the subject site, with upland forest located in the northern portion. The remainder of the subject site is maintained lawn. Observed upland forest species included American Holly (*Ilex opaca*, FAC), Roundleaf Greenbriar (*Smilax rotundifolia*, FAC), White Oak (*Quercus alba*, FACU), and Northern Red Oak (Quercus rubra, FACU). The plant species observed are common in the region.



#### 2.7 Wildlife

The project site consists of open lawn area, wooded areas and forested wetlands. Some common species of mammals that would be expected to be found on or adjacent to the site include raccoons, skunks, opossums, chipmunks, field mice, and squirrels. The following species were observed on the site by direct observation or by way of signs (droppings, calls or tracks).

#### **Observed Wildlife Species**

Common Name	Scientific Name
White-tailed Deer	Odocoileus virginianus
Eastern Cottontail Rabbit	Sylvilagus floridanus
Gray Squirrel	Sciurus Carolinensis
Groundhog	Marmota monax
Turkey Vulture	Cathartes aura

No threatened or endangered species or suitable habitat for such species was reported on the NJDEP Landscape Mapping Project (version 3.3). The Landscape Project Habitat Rank for the project site was identified with both Rank 1 and Rank 3 habitats (on a scale of 1 to 5). Rank 1 means that the area may potentially meet habitat-specific suitability for endangered, threatened or priority wildlife species, but does not intersect with any confirmed species occurrences. Rank 3 means that the area may contain habitat for State-listed species.

No threatened or endangered species or suitable habitat were observed on the site during field inspection. In addition, a request was made to the New Jersey Natural Heritage Program for information relating to the occurrence of threatened & endangered wildlife and plant species and their critical habitats. The Natural Heritage Program response listed foraging habitat for Black-crowned Night-heron (*Nycticorax nycticorax*), a state-threatened species in the Jumping Brook corridor. The response also included the potential for nesting, breeding and/or foraging habitat for three (3) avian species of special concern, including Cooper's Hawk (*Accipiter cooperii*), Great Blue Heron (*Ardea herodias*) and Wood Thrush (*Hylocichla mustelina*). The Natural Heritage Program response is included in **Appendix B**.

Significant impacts to wildlife species are not expected as a result of the proposed development. It is noted that the forested wetlands in the northern portion of the site will not be disturbed. Wildlife species expected to utilize the property include species tolerant to the disturbances related to nearby development and would be supported by the habitat to the north. Since wildlife is not expected to be diverse, abundant or sensitive to human disturbance, wildlife impacts are not expected to be significant on the site.



#### 2.8 Air Quality

The Federal Clean Air Act Amendments of 1990 requires each state to attain and maintain specified air quality standards. Ambient Air Quality Standards have been promulgated by the federal government and by the State of New Jersey for ozone (O<sub>3</sub>) total suspended particulate (TSP), sulfur dioxide (SO<sub>2</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>) and lead. The New Jersey standards are generally the same as the federal standards for these pollutants. Primary air quality standards are set to protect human health and secondary standards are set to protect human welfare.

The nearest air quality monitoring stations to Neptune Township are located at Monmouth University (Monmouth County) and Rutgers University (Middlesex County). Some pollutants not measured at these monitoring stations are measured in other counties/regions.

Ozone  $(O_3)$  is a gas consisting of three oxygen atoms. It occurs naturally in the upper atmosphere (stratospheric ozone) where it protects us from harmful ultraviolet rays. However, at ground-level (tropospheric ozone), it is considered an air pollutant and can have serious adverse health effects. Ground level ozone is created when nitrogen oxides (NOx) and volatile organic compounds (VOCs) react in the presence of sunlight. NOx is primarily emitted by motor vehicles, power plants, and other sources of combustion. VOCs are emitted from sources such as motor vehicles, chemical plants, factories, consumer and commercial products, and even natural sources such as trees. According to the *NJDEP 2021 Air Quality Annual Report*, ozone levels measured at Monmouth University in West Long Branch, NJ measured 0.11 ppm for the 1-hour daily maximum, and 0.087 ppm for the highest daily maximum averaged over 8-hours. The 1-hour maximum did not exceed the New Jersey Standard of 0.12 ppm and the highest daily maximum averaged over 8-hours did slightly exceeded the National 8-Hour Standard of 0.070 ppm. It is noted that the entire State of New Jersey is located in a "non-attainment" area for  $O_3$ , as designated by the USEPA.

Sulfur dioxide (SO<sub>2</sub>) is a heavy, colorless gas with a suffocating odor, that easily dissolves in water to form sulfuric acid. SO<sub>2</sub> gases are formed when fuels containing sulfur (coal, oil, and gasoline) are burned, or when gasoline is extracted from oil. Most of the sulfur dioxide released into the air comes from fuel combustion in electric utilities, especially those that burn coal with a high sulfur content. According to the *NJDEP 2021 Air Quality Annual Report*, the closest monitoring station where sulfur dioxide levels are measured is at the Elizabeth Lab in Elizabeth, NJ and generally not representative of regional conditions in Monmouth County. Sulfur dioxide levels measured 6.9 parts per billion (ppb) for the 1-hour maximum, 0.047 ppm for the 3-hour maximum and 0.004 ppm for the 12-month maximum. The 1-hour maximum did not exceed the National Standard of 75 ppb. The New Jersey Standards of 0.5 ppm for 3-hours and 0.005 ppm for 12-months were not exceeded. There has also been a demonstrated yearly reduction in average sulfur dioxide levels over the past several years.



Nitrogen dioxide ( $NO_2$ ) is a reddish-brown highly reactive gas that is formed in the air through the oxidation of nitric oxide ( $NO_2$ ).  $NO_2$  is used by regulatory agencies as the indicator for the group of gases known as nitrogen oxides (NOx). These gases are emitted from motor vehicle exhaust, combustion of coal, oil or natural gas, and industrial processes such as welding, electroplating, and dynamite blasting. Although most NOx is emitted as NO, it is readily converted to  $NO_2$  in the atmosphere. In the home, gas stoves and heaters produce substantial amounts of nitrogen dioxide. When  $NO_2$  reacts with other chemicals it can form ozone, particulate matter, and other pollutant compounds. According to the *NJDEP 2021 Air Quality Annual Report*, the closest monitoring station where nitrogen dioxide levels are measured is at the Rutgers University in New Brunswick, NJ. Nitrogen dioxide levels measured 54 ppm for the 1-hour average and 8 ppb for the 12-month average. The National Standards of 100 ppb for 1-hour and 53 ppb for 12-months were not exceeded.

Particulates can occur naturally or can be man-made. Examples of naturally-occurring particles are windblown dust and sea salt. Man-made particulates, which come from sources such as fossil fuel combustion and industrial processes, can be categorized as either primary particulates or secondary particulates. Primary particulates are directly emitted from their sources, while secondary particulates form in the atmosphere through reactions of gaseous emissions. Particulate pollution is categorized by size, measured in microns (one millionth of a meter, also known as a micrometer). Particulates with diameters of 2.5 microns or less are considered "fine particulate matter," referred to as PM<sub>2.5</sub>. According to the *NJDEP 2021 Air Quality Annual Report*, the closest monitoring station where fine particulates are measured is at the Rutgers University in New Brunswick, NJ. The annual mean concentration was reported as 7.90 ug/m³, which is below the National Standard of 12 ug/m³ for the annual average.

Carbon monoxide (CO) is a colorless, odorless gas formed when carbon in fuels is not burned completely. The main source of outdoor CO is exhaust from internal combustion engines, primarily on-road vehicles, as well as non-road vehicles, generators, construction equipment, boats and other types of mobile sources. According to the *NJDEP 2021 Air Quality Annual Report*, the closest monitoring station where carbon monoxide levels are measured is at the Elizabeth Lab in Elizabeth, NJ and generally not representative of regional conditions in Monmouth County.

The National and New Jersey Ambient Air Quality Primary and Secondary Standards of 35 ppm for the 1-hour average maximum standard and 9 ppm for the 8-hour average maximum standard were not exceeded in any of the New Jersey monitoring stations. There has also been a demonstrated yearly reduction in average carbon monoxide levels over the past several years.

During construction, air quality near the project will be slightly affected by exhaust emissions from construction vehicles and equipment in the immediate vicinity of the vehicles. After construction, the development will not generate additional emissions. Both during and after construction, pollution control devices installed on vehicles will minimize air pollution from the personal vehicles associated with the proposed development.



#### 2.9 Noise

Ambient sound levels are typically measured in units of A-weighted decibels (dBA). The typical daytime sound level at the project site is estimated to fall between 65 to 75 dBA, due to existing vehicular traffic along Highway 33. Nighttime sound levels are estimated to fall between 45 to 50 dbA. Variations in sound levels will depend on traffic volume, vehicular speed, distance from roadway and degree of sound shielding (e.g., structures and trees).

The General Services Administration has developed construction-related noise specifications requiring that noise levels not be exceeded at a distance of 50 feet for different types of construction equipment. Most construction equipment will maintain a noise level of 75 dBA. Pneumatic tools, scrapers and pavers may be as loud as 80 dBA. Occupational noise levels of 90 dB(A) for periods of eight hours are permitted. All Neptune Township ordinances dictating the times and conditions for such activities will be complied with. The use of construction equipment will be limited to the hours permitted by the Township of Neptune.

Construction activities on the site will cause temporary increases in sound levels of short duration in the vicinity of the site. These levels will be comparable to normal sound levels for construction. As the project area is residential, construction activities will be limited to normal working hours. Post-construction sound levels should not increase noticeably from the existing condition. Traffic volumes must increase by 60 percent before changes in sound levels become "barely perceptible". Traffic is not anticipated to approach such increases; therefore, the changes in ambient sound levels should not be noticeable.

#### 2.10 Land Use

The project site is zoned for residential uses, with places of worship as a permitted use, among other uses. The site is currently used for a residential dwelling. The proposed sanctuary is among the principal land uses the Township has permitted for the R-2 Zone.

#### 2.11 Aesthetics

The project site contains upland and wetland communities with a rural to suburban setting. The functional and aesthetic qualities of the neighborhood will not be significantly altered by the proposed redevelopment. The proposed facilities will be compatible with the existing use. The functional and aesthetic qualities of the project site will not differ significantly from adjacent sites after the project is complete.

### 2.12 Historic and Archaeological Features

At the present time, no scenic, historical or archaeological features exist on the project site. The *New Jersey & National Registers of Historic Places* was consulted to determine if any historic, archaeological, or architectural resources are present on the site. None of the sites listed for Neptune Township were located on or adjacent to the project site.



#### 2.13 Hazardous Materials and Conditions

The subject site is currently developed with a 1.5-story dwelling. No underground or aboveground petroleum fuel tanks are known to currently or formerly exist at the subject site.

It is noted that there was a former Sunoco gas station just west of the subject site at 3321 Highway 33. The gas station has a record of leaking underground storage tanks and is under investigatory oversight by a New Jersey-License Site Remediation Professional (LSRP). Following remedial investigations, the site has a Classification Exception Area (CEA)/Well Restriction Area (WRA) associated with it. The CEA/WRA is an institutional control/deed restriction that identifies the groundwater contamination plume. The CEA/WRA extends eastward from the gas station property along Highway 33 for approximately 800 feet. The CEA/WRA extends across the southern portion of the subject site. Only the excavation to groundwater and use of groundwater is restricted in this area. The proposed project does not involve deep excavations or use of groundwater in this area. The existing potable well on the subject site is not adversely affected by the contaminated groundwater along Highway 33.

The NJDEP Data Miner documentation identifying the current remedial investigation status is included in **Appendix C**.



#### 3.0 Irreversible/Unavoidable Impacts and Mitigation Measures

#### 3.1 Construction Related Impacts

Certain undesirable environmental effects will be unavoidable during construction of this redevelopment. These effects are temporary in nature and almost entirely associated with preparations for construction and the construction operations themselves. Consequences of construction activities include fugitive dust emissions, soil erosion and resultant siltation, construction equipment noise, minor amounts of additional air pollution and construction vehicle traffic.

In order to mitigate these short-term impacts:

- 1. A Soil Erosion and Sediment Control Plan has been developed for the project, which will reduce the potential for soil erosion during construction. The plan has been developed according to State of New Jersey and Soil Conservation District Standards.
- During the construction phase, all mechanical equipment shall be maintained in conformance with the applicable standards for noise and exhaust emission levels, as well as safety standards.
- 3. Contractors will take all practical steps to eliminate avoidable noise emanating from construction operations. To minimize inconvenience to and irritations of neighboring inhabitants, construction operations will be limited to normal working hours.

#### 3.2 Post-Construction Related Impacts

The proposed project has been designed to minimize environmental impacts to the greatest extent possible. In addition, measures have been incorporated into the project plans to mitigate any adverse environmental impacts. As described in the previous sections of this EIS, various environmental resources and their impacts were evaluated.

The proposed project plans have incorporated measures designed to reduce the potential environmental impacts associated with the proposed development to the maximum extent possible. The most important of these measures are listed herein.

- A Stormwater Management Plan includes the use of an on-site infiltration basin designed to provide stormwater control for the site. The basin will reduce the nonpoint source pollutants and sediments that will be discharged from the site, as required by NJDEP.
- 2. The preservation of the freshwater wetlands in the northern portion of the site will provide adequate foraging habitat and cover for several common wildlife species.
- 3. The proposed comprehensive landscaping plan will enhance the vegetative and aesthetic character of the site after construction where open fields currently exist.



#### 4.0 Summary

The proposed development, as shown on the Preliminary and Final Site Plan prepared by B&G Engineering, LLC, dated December 5, 2022, will not cause significant adverse impacts on the topographic, soil, geological, ecological, hydrologic, water quality, air quality or noise environments at the site or in the surrounding area. Freshwater wetlands boundaries have been delineated and verification by the NJDEP Division of Land Resource Protection is pending. Unavoidable adverse environmental impacts include an increase from 0.21 acre to approximately 1.02 acres of impervious surfaces on the site (32 percent of the overall site). The site plan includes utilization of an on-site stormwater management basin to reduce the peak runoff of stormwater on the site. Impacts to surface water quality will be minimized by the treatment of stormwater within the on-site stormwater management facility. Potential impacts from air pollution, water pollution and noise will be short-term and minimal.

Overall, the proposed project plans are compatible with the environmental conditions at the site, the surrounding residential development and Neptune Township Zoning Ordinance and Master Plan.



#### 5.0 Qualifications of Environmental Professional

## Michael L. Francis, Ph.D. Principal Consultant, The Catalyst Group

**EDUCATION:** Bachelor of Arts (Geography: Environmental Analysis and Management)

Rutgers - The State University of New Jersey, New Brunswick, NJ

Master of Arts (Environmental Management)
Montclair State College, Upper Montclair, NJ
Doctor of Philosophy (Environmental Engineering)
Kennedy-Western University, Thousand Oaks, CA

Mini Masters of Business Administration

Rutgers - The State University of New Jersey, New Brunswick, NJ

PROFESSIONAL AFFILIATIONS:

American Society for Testing and Materials (ASTM) Technical Committee E-50

Environmental Assessment Association (EAA) Advisory Council

American Society of Highway Engineers (ASHE)

**PROFESSIONAL** 

**CERTIFICATIONS:** OSHA 40-hour Hazardous Waste Site Health & Safety Training

**EXPERIENCE:** 

Dr. Francis has over 36 years of experience in the field of environmental consulting, managing a wide variety of environmental matters throughout project lifecycles while working with environmental and engineering consulting firms, construction contractors, public entities and regulatory agencies across the Nation involving ecological investigations, regulatory permitting, soil/groundwater contamination investigations, site remediation strategies, underground storage tank management, hazardous and universal waste, asbestos, lead-based paint, stormwater management and air permits; often on high profile projects.

#### **Environmental Impact Statements**

- \* Involved in the preparation of numerous Environmental Impact Statements and Environmental Assessments pursuant to the National Environmental Policy Act (NEPA), New Jersey Executive Order No. 215 (EO-215), New York State Environmental Quality Review Act (SEQRA) and various municipal ordinances. Prepared Categorical Exclusion Documents, Natural Resource Inventories and Impact Assessments.
- \* Conducted environmental reviews and prepared Environmental Assessments pursuant to NEPA for the federal government for a variety of public infrastructure projects receiving Coronavirus Aid, Relief and Economic Security (CARES) Act funding in CO, WY, MN, IA, KS, MO, SD, ND and NE, as well as American Rescue Plan Act (ARPA) funding in TX, OK, NM, AR and LA.
- \* Involved in issues and reviews relating to Section 106 of the National Historic Preservation Act and Section 4(f) of the Department of Transportation Act, Section 7 of the Endangered Species Act, and the Magnuson-Stevens Fishery Conservation and Management Act, among others.
- \* Prepared and managed Environmental Review Records (ERRs) for multiple urban properties as well as data upload into the Department of Housing and Urban Development's (HUD's), Environmental Review Online System (HEROS).



## Michael L. Francis, Ph.D., Principal Consultant (Page 2)

#### Wetlands Investigation and Delineation

\* Directed and supervised over 1,000 freshwater/coastal wetland delineations and preparation of Wetland Delineation Reports and multiple jurisdictional determination applications for submission to State and Federal agencies for projects throughout the Nation.

#### **Land Use Permitting**

- \* Extensive experience in Land Use Permitting for major residential, commercial, transportation and energy generation/distribution-related developments throughout the Nation.
- \* Successful in securing environmental permits from the U.S. Army Corps of Engineers (USACE) and numerous State environmental agencies, including the State of New Jersey, involving freshwater wetlands, coastal/tidal wetlands, waterfront development, coastal zones, flood hazard areas and compensatory mitigation.

#### **Expert Witness Testimony**

\* Provided public hearing testimony and has been qualified as an expert witness in the field of environmental impact assessment and wetlands in many New Jersey municipalities. Qualified as an expert in the field of wetland identification and delineation and has provided expert testimony before the Superior Court of New Jersey and the New York State Freshwater Wetlands Appeals Board.

#### **Environmental Assessment/Due Diligence**

- \* Provided numerous Phase I Environmental Site Assessments pursuant to the ASTM Standard Practice E-1527-13, as well as Preliminary Assessments pursuant to the New Jersey Technical Requirements for Site Remediation (N.J.A.C. 7:26E). Examples of projects include contaminated sites, NJDEP Green Acres Program acquisition sites and New Jersey Industrial Site Recovery Act (ISRA)/Brownfields sites.
- \* Responsible for numerous projects involving State/Federal agency database coordination, on-site ISRA screening, evaluation and documentation.
- \* Qualified and approved consultant responsible for over 1,000 commercial property assessments for many financial institutions and real estate brokers throughout New Jersey, New York and Pennsylvania.

Prior to joining The Catalyst Group, Dr. Francis served as President of Environmental Property Assessments, LLC in Lawrenceville, NJ from 2009 to 2020, as well as Senior Project Manager for STV Incorporated in Lawrenceville, NJ and New York, NY from 2009 to 2020. He was previously the New Jersey/New York Regional Manager for A.D. Marble & Company in Princeton, NJ from 2005 to 2009, Senior Project Manager for Maser Consulting in Hamilton, NJ from 2002 to 2005, Unit Supervisor- Environmental Planning for T&M Associates, Inc. in Middletown, NJ from 1994 to 2002, Senior Environmental Specialist for The Hudson Partnership, Inc. in East Brunswick, NJ from 1991 to 1994 and Senior Environmental Scientist for Connolly Environmental, Inc. in Denville, NJ from 1986 to 1991.



#### 6.0 References

Federal Emergency Management Agency. *Flood Insurance Rate Map* of Neptune Township, Community Panel 34041 C0238E.

Herman, Gregory C., et al. 1998. Aquifers of New Jersey

Washington Borough., Land Use Ordinance of the Township of Neptune, County of Monmouth, State of New Jersey, as last amended.

New Jersey Department of Environmental Protection, Bureau of Air Monitoring, 2022. 2021 Air Quality Report

New Jersey Department of Environmental Protection & New Jersey Department of Agriculture, 1994. Stormwater and Nonpoint Source Pollution Control, Best Management Practices Manual

New Jersey Department of Environmental Protection, April 2020. *Surface Water Quality Standards* N.J.A.C. 7:9B.

New Jersey Department of Environmental Protection, Division of Parks and Forestry. *New Jersey and National Registers of Historic Places, July 15, 2022.* 

New Jersey Geological Survey. 2001. Ground-Water Recharge Map for Monmouth County, New Jersey

New Jersey State Soil Conservation Committee. 1999. *Standards for Soil Erosion and Sediment Control in New Jersey* 

Owens, James P. et al. 1998. Bedrock Geological Map of Central and Southern New Jersey.

United States Department of Agriculture, Soil Conservation Service, et al. 2022. *Soil Survey of Monmouth County, New Jersey* 

United States Geological Survey, 7.5-Minute Series, Asbury Park, NJ Topographic Quadrangle



## **APPENDIX A**

## **SITE PHOTOGRAPHS**



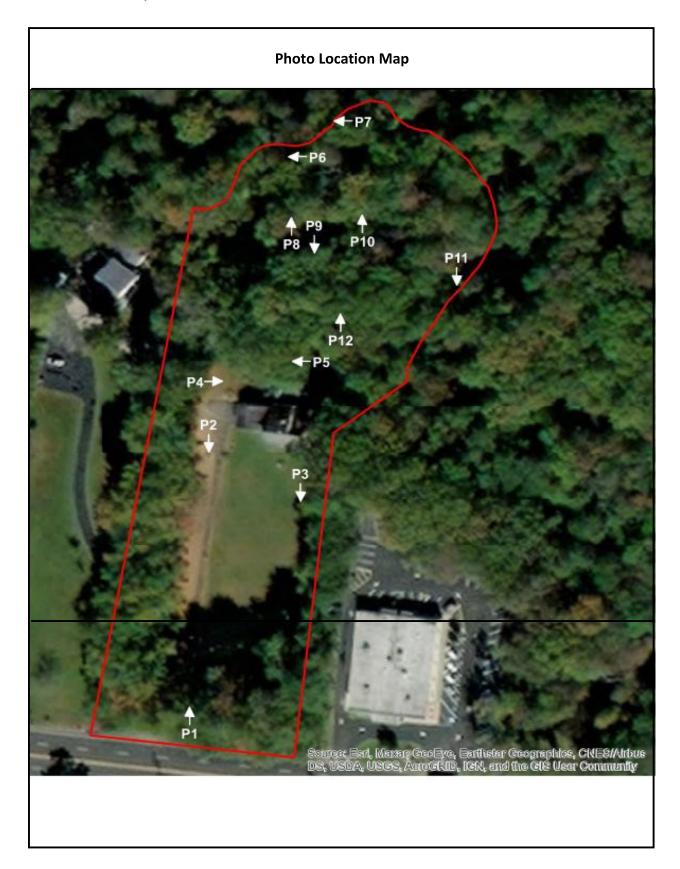


wood pile.











## **APPENDIX B**

## **NEW JERSEY NATURAL HERITAGE PROGRAM RESPONSE**



## State of New Jersey

# MAIL CODE 501-04 DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE PARKS, FORESTS AND HISTORIC SITES OFFICE OF NATURAL LANDS MANAGEMENT

501 East State Street
P.O. Box 420
Trenton, NJ 08625-0420
Tel. (609) 984-1339 • Fax (609) 984-0427

SHAWN M. LATOURETTE

Commissioner

SHEILA Y. OLIVER *Lt. Governor* 

PHILIP D. MURPHY

Governor

March 30, 2022

Amanda Schellhamer The Catalyst Group 100 Overlook Center, 2nd Floor Princeton, NJ 08540

Re: B&G Neptune

Block(s) - 3301, Lot(s) - 4

Neptune Township, Monmouth County

Dear Ms. Schellhamer:

Thank you for your data request regarding rare species information for the above referenced project site.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.3) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the map(s) submitted with the Natural Heritage Data Request Form into our GIS. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for occurrences of rare wildlife species or wildlife habitat in the immediate vicinity (within ¼ mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within ¼ mile of the site. Please refer to Table 2 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented within the immediate vicinity of the site. Detailed reports are provided for all categories coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1 and 2 (attached) to determine if any priority sites are located on or in the immediate vicinity of the site.

A list of rare plant species and ecological communities that have been documented from the county (or counties), referenced above, can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes\_2010.pdf.

Beginning May 9, 2017, the Natural Heritage Program reports for wildlife species will utilize data from Landscape Project Version 3.3. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive web application at the following URL,

https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=0e6a44098c524ed99bf739953cb4d4c7, or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

For additional information regarding any Federally listed plant or animal species, please contact the U.S. Fish & Wildlife Service, New Jersey Field Office at http://www.fws.gov/northeast/njfieldoffice/endangered/consultation.html.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,

Robert J. Cartica Administrator

c: NHP File No. 22-4007421-24390

Table 1: On Site Data Request Search Results (6 Possible Reports)

Report Name	<u>Included</u>	Number of Pages
1. Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites On Site	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	Yes	1 page(s) included

Page 1 of 1

Tuesday, March 29, 2022 NHP File No.: 22-4007421-24390

Rare Wildlife Species or Wildlife Habitat on the	Project Site Based on Search of	Landscape Project 3.3 Species Based Patches
--	---------------------------------	---

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	Federal Protection State Protection Status Status	Grank	Srank
Aves								
	Black-crowned Night-heron	Nycticorax nycticorax	Foraging	ε	NA	State Threatened	G5	S2B,S3N
	Cooper's Hawk	Accipiter cooperii	Nest	7	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	7	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N

## Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program

Scientific Name	Common Name	Federal Protection Status	State Protection Status Grank	Grank	Srank
Invertebrate Animals					
Metarranthis pilosaria	Coastal Bog Metarranthis			G3G4	S3S4
Total number of records:					

NHP File No.: 22-4007421-24390

Table 2: Vicinity Data Request Search Results (6 possible reports)

Report Name	<u>Included</u>	Number of Pages
1. Immediate Vicinity of the Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites within the Immediate Vicinity	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat In the Immediate Vicinity of Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat In the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	Yes	1 page(s) included

Page 1 of 1

Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches
--

Class	Common Name	Scientific Name	Feature Type	Rank	Rank Federal State Protection Status Protection Status	State Protection Status	Grank	Srank
Aves								
	Black-crowned Night- Nycticorax heron nycticorax	Nycticorax nycticorax	Foraging	ю	NA	State Threatened	G5	S2B,S3N
	Cooper's Hawk	Accipiter cooperii	Nest	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N

# Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program

Scientific Name	Common Name	Federal Protection Status	State Protection Status Grank	Srank
Invertebrate Animals				
Metarranthis pilosaria	Coastal Bog Metarranthis		G3G4	S3S4
Total number of records:				



#### **APPENDIX C**

#### NJDEP DATA MINER DOCUMENTATION



SRP Active Sites

SRP Closed Sites Pe

Pending Sites Non-Remedial Sites

Other Sites

Sites with Conditions

Incidents

## Site Detail Report

Run Date: 12/03/22 5:33 pm

# **4283 - SUNOCO SERVICE STAITON #0007 6851**

Cea Fact Sheet	Info Fact Sheet	Info Fact Sheet
More Info	Case Oversight Info	Case Oversight Info
Document Title	91-11-14-1313 BUST C2	91-11-14-1313 BUST C2
Document Status	Active	Transferred Pending Payment
Document Type	Case Oversight	Case Oversight
Activity Number	LSR110001	USR000001
Municipality	Neptune Twp	Neptune Twp
County	Monmout h	Monmout h
PI Name	SUNOCO 0007-6851	SUNOCO 0007-6851
PI Number	014825	014825

## Click here for Activity Tracking details...

## SRP CASE OVERSIGHT REPORT SUNOCO 0007-6851 3321 RT 33 W Neptune City Boro, NJ

PI Number	014825	Remedial Level
Activity Number	LSR110001	C2: Formal Design - Known Sour
Bureau	LSR	Contamination
Document Title	91-11-14-1313 BUST C2	Case Types
Case Status	LSRP Oversight	LSRP 2-10 CAOC
Case Status Date	3/26/11	LSRP GW FEE
Confirm Contamination	Yes	Regulated UST
Case Manager		
Phone	- ()	

LSRP Name	David A Jones
<b>Business Phone Number</b>	(609) 387 - 5553

C2: Formal Design - Known Source or Release with GW	7/9/92	
COLICATION		
Case Types	Start Date End Date	End Date
LSRP 2-10 CAOC	3/26/11	
LSRP GW FEE	3/26/11	
Regulated UST	11/14/91	

Start Date End Date

#### **Activity Tracking Report**

Run At: 12/3/2022 5:39 PM39

#### SUNOCO 0007-6851

PI Number: 014825

#### LSR110001

Activity Class Description	Licensed Site Professional Program
Activity Type Description	LSRP Opt-In Case

Assigned To	Description	Completed Date
SRP CLEARING HOUSE, LSRP	Date Remediation was Required to be Initiated	11/14/91
FLESCH, ERWIN	PN: Documentation of Public Notification Received	8/31/09
SRP CLEARING HOUSE, LSRP	LSRP Obligation Event Date	3/26/11
SRP CLEARING HOUSE, LSRP	LSRP Retention Form Received	3/26/11
,	Case Transferred	5/19/11
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	7/11/11
SANGUILIANO, JOSEPH	Referral Returned by ODQ	9/26/11
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	12/29/11
DOWNS, RALPH	Full Laboratory Data Deliverables Form & Analytical Results Received	1/14/12
SANGUILIANO, JOSEPH	Referral Returned by ODQ	3/5/12
SOBOLESKI, ROBERT	CEA Proposal Received	3/28/12
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	5/14/12
FLESCH, ERWIN	Classification Exception Area Approved	6/18/12
SANGUILIANO, JOSEPH	Referral Returned by ODQ	1/8/13
SRP COMPLIANCE ASSISTANCE, LSRP	May 2014 RI Deadline-Compliance Alert Letter Issued	6/17/13
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	8/5/13
SRP CLEARING HOUSE, LSRP	PN: Documentation of sign/letter/fact sheet received	8/27/13
SANGU <b>I</b> LIANO, JOSEPH	Referral Returned by ODQ	9/10/13
KLOO, KAREN	PN: PNO submittal inspected/reviewed	9/11/13
OZA, HRUSHIKESH	LSRP Receptor Evaluation (Updated) Received	10/28/13
SRP CLEARING HOUSE, LSRP	Remedial Investigation Completed	10/28/13
SRP CLEARING HOUSE, LSRP	Remedial Investigation Report Received	10/28/13
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	12/4/13
SRP CLEARING HOUSE, LSRP	LSRP Annual Remediation Fee Form Received	12/9/13
WHITTAKER, CLARE	NJPDES Permit-by-Rule (UIC) Received	5/20/14
BAYARD, JUDITH	CEA Proposal Received	5/28/14
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	8/13/14

KUSERK, MARYANNE	Referral Returned by Geologist	8/22/14
SANGUILIANO, JOSEPH	Referral Returned by ODQ	8/26/14
PHILLIPS, BEVERLY	NJPDES Permit-by-Rule (UIC) Approved	9/18/14
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	12/4/14
SANGUILIANO, JOSEPH	Referral Returned by ODQ	2/24/15
LELIEVRE, NICOLE	Phone call - LSRP Compliance Assistance	4/13/15
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	6/17/15
PHILLIPS, BEVERLY	Classification Exception Area Revised	6/25/15
CHUDZIK, MICHAEL	RAO-A (Unrestricted Use) Filed	7/7/15
SRP CLEARING HOUSE, LSRP	Site Investigation Report Received	7/7/15
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	11/30/15
WILLIAMS, JACQUELINE	NJPDES Permit-by-Rule (UIC) Received	3/30/16
PHILLIPS, BEVERLY	NJPDES Permit-by-Rule (UIC) Approved	5/16/16
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverable Form & Analytical Results Received	5/23/16
SANGUILIANO, JOSEPH	Referral Returned by ODQ	6/1/16
SANGUILIANO, JOSEPH	Referral Returned by ODQ	8/3/16
BOWMAN, AMY	Referral Returned by ODQ	11/18/16
SMITH, KAREN	Referral Returned by ODQ	12/14/16
,	LSRP Dismissal Form Received	12/27/16
SRP CLEARING HOUSE, LSRP	Rem.Timeframe Notification Form Rec'd- Extension Request	1/2/19
HOSE, MATTHEW	Site and Contact Information Update Form Received	2/21/19
MCCALLUM, DARLENE	OSB Cost Recovery-Review Complete	5/1/19
HOSE, MATTHEW	Data Cleanup Completed	5/14/19
SRP CLEARING HOUSE, LSRP	Full Laboratory Data Deliverables Form & Analytical Results Received	6/21/19
GROSS, CATHERINE	Data Cleanup Completed	6/25/19
SRP CLEARING HOUSE, LSRP	Remedial Action Report Received	6/25/19
BOWMAN, AMY	Referral Returned by ODQ	5/26/20
SRP CLEARING HOUSE, LSRP	EO 103 Extension Applied	5/19/21
SRP CLEARING HOUSE, LSRP	Remedial Action Report Received	12/30/21
SRP CLEARING HOUSE, BCAIN	Rem.Timeframe Notification Form Rec'd- Extension Request	1/3/22
SRP CLEARING HOUSE, BCAIN	Extension Request Approved (MTF)	2/2/22
LEE, YUN-SHEN	Referral Sent to ODQ	
SRP CLEARING HOUSE, LSRP	Remedial Action to be Completed for All CAOCs	
		· · · · · · · · · · · · · · · · · · ·

# Classification Exception Area/Well restriction Area

014825 LSR110001 CEA140790 Activity Number Subject Item ID: CEA ID: 014825 LSR110001 Case Info Case ID

014825 Preferred ID

SUNOCO S/S #0007-6851 (NEPTUNE) Case

3321 W RT 33 Address:

Neptune Twp

City:

Monmouth County:

All PI Block and Lot

3301-6

See Exhibit A [Site Location Map]

Lot and Block of the CEA

7013-10, 7018-12, 7013-12, 7018-13, 7013-9.01, 7013-9, 7018-14, 344-46, 7013-13, 7018-15, 7018-16

Contacts

Site Contact

Organization

Address

Devon Watts Site Contact

Sunoco, Inc. (R&M) Organization Address

203 South Falkenburg Road

Tampa, FL 33619

Jeremy Fultz Site Contact

SUNOCO LLC Organization 2 Righter Pkwy Suite 120 Address

Wilmington, DE 19803

DEP

- ()

### **CEA Information**

CEA includes most of site and extends off-site to east, to Shark River Brook. CEA includes fronts of all lots on either side of Route 33 between site and Brook. Boundary based on gw data and F&T. Description

Southeast

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**Vertical Depth** Aquifer

CEA 50' total

Kirkwood

Quaternary Age Alluvial Deposits

Saturday 03 December 2022

quality criteria / primary drinking water standards for these contaminants are listed in parts per billion (ppb). All constituents standards (N.J.A.C. 7:9:9-6) apply at the designated boundary. This CEA /WRA applies to the contaminants listed in the table below. The ground water

Units	1 Micrograms Per Liter	70 Micrograms Per Liter	100 Micrograms Per Liter	1,000 Micrograms Per Liter
Cleanup Goal	1 Micr	70 Micr	100 Micr	1,000 Micr
Concentration Units	7 Micrograms 7 Per Liter	660 Micrograms Per Liter	690 Micrograms Per Liter	2,900 Micrograms Per Liter
Contaminant	Benzene	Methyl tert-butyl ether	Tert-butyl alcohol	Xylenes (total)

#### Site

1 Maximum concentration detected at the time of CEA estblishment 2 Ground Water Quality Standards

### **CEA Boundaries**

horizontal	See exhibit B (CEA) WRA Location Map)
Vertical	See exhibit B (CEA/ WRA Location Map)

Included in affected aquifer above

Saturday 03 December 2022

Note	Since groundwater quality data indicates excedance of contaminants above the Primary Drinking Water Standards, and the designated uses of Class II-A aquifer included potable use, the CEA established for this site is also a Well restriction Area. The extent of Well Restriction shall coincide with the boundaries of the CEA
Comments	
Date Closed/ Lifted	
Duration	10.00
Date Established	6/15/12

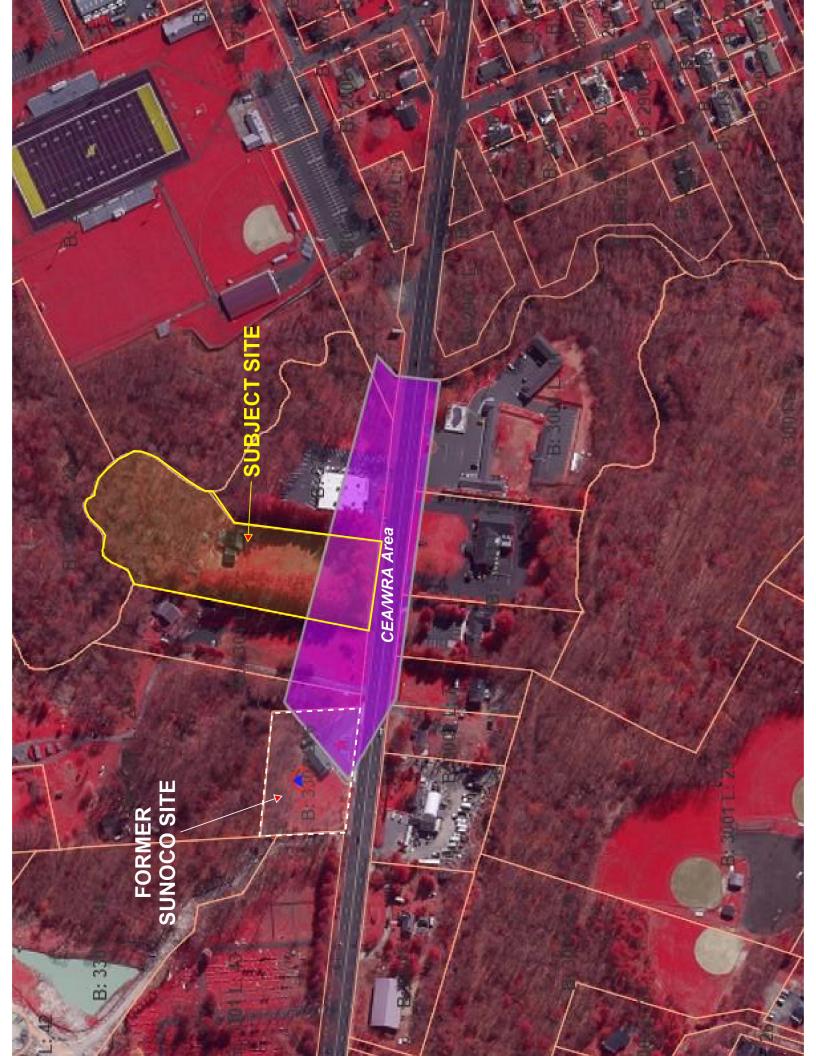
## Well Restrictions set within boundaries of the CEA

Restrictions	Well Restriction Boundries
Double Case Wells	Double Case Wells: With the exception of monitoring wells installed into the first water bearing zone, any proposed well to be installed within the CEA/WRA boundary shall be double cased to an appropriate depth in order to prevent any vertical contaminant migration pathways. This depth is either into a confining layer or 50 feet below the vertical extent of the CEA.
Evaluate Production Wells	Evaluate Production Wells: Any proposed high capacity production wells in the immediate vicinity of the CEA/WRA should be pre-evaluated to determine if pumping from these wells would draw a portion of the confaminant plume into the cone of capture of the production wells or alter the configuration of the contaminant plume.
Sample Potable Wells	Sample Potable Wells: Any potable well to be installed within the footprint of the CEA/ WRA shall be sampled annually for the parameters of concern. The first sample shall be collected prior to using the well. If contamination is detected, contact your local Health Department. If the contamination is above the Safe Drinking Water Standards, then the NUDEP Hot Line should be called. Treatment is required for any well that has contamination above the Safe Drinking Water Standards.

## Site Specific Well Restrictions

#### Restriction

\* None at this time



## Click here for Activity Tracking details...

## SCASE OVERSIGHT REPORT SUNOCO 0007-6851 3321 RTE 33 W Neptune City Boro, NJ

PI Number	014825	Remedial Level
Activity Number	USR000001	C2: Formal Design - Known Source or Release with GW
Bureau	BUST	Contantination
Document Title	91-11-14-1313 BUST C2	Case Types
Case Status	Transferred	Regulated UST
Case Status Date	5/19/11	
Confirm Contamination	Yes	
Case Manager	FLESCH, ERWIN	
Phone	(609) 633 - 1978	

**End Date** 

Start Date

**End Date** 

Start Date

7/9/92

**Business Phone Number** 

**LSRP Name** 

#### No LSRP

#### **Activity Tracking Report**

Run At: 12/3/2022 5:37 PM37

#### SUNOCO 0007-6851

PI Number: 014825

USR000001

Activity Class Description	UST Remediation
Activity Type Description	Remedial Action and Construction

Assigned To	Description	Completed Date
FLESCH, ERWIN	Remedial Action Started	8/31/95
FLESCH, ERWIN	Remedial Action Progress Report Received	6/23/00
FLESCH, ERWIN	Remedial Action Progress Report Approved	9/7/00
FLESCH, ERWIN	Remedial Action Progress Report Received	9/22/00
FLESCH, ERWIN	Remedial Action Progress Report Approved	11/15/00
FLESCH, ERWIN	Remedial Action Progress Report Received	11/27/00
FLESCH, ERWIN	Remedial Action Progress Report Notice of Deficiency Issued	1/26/01
FLESCH, ERWIN	Remedial Action Progress Report Received	3/15/01
FLESCH, ERWIN	Remedial Action Progress Report Notice of Deficiency Issued	6/7/01
FLESCH, ERWIN	Remedial Action Progress Report Received	6/25/01
FLESCH, ERWIN	Remedial Action Progress Report Received	12/27/01
FLESCH, ERWIN	Remedial Action Progress Report Received	6/18/02
FLESCH, ERWIN	Remedial Action Progress Report Approved	8/14/02
FLESCH, ERWIN	Remedial Action Progress Report Notice of Deficiency Issued	8/14/02
FLESCH, ERWIN	Remedial Action Progress Report Received	1/9/03
FLESCH, ERWIN	Potable Well Data Comments Received from BEMQA	1/24/03
FLESCH, ERWIN	Remedial Action Progress Report Notice of Deficiency Issued	3/20/03
FLESCH, ERWIN	Potable Well Letter Issued	3/31/03
FLESCH, ERWIN	site visit	4/7/03
FLESCH, ERWIN	Potable Well Data Received	5/7/03
FLESCH, ERWIN	Out of Service UST Extension Approved	5/14/03
FLESCH, ERWIN	Potable Well Data Comments Received from BEMQA	6/11/03
FLESCH, ERWIN	Remedial Action Progress Report Received	7/10/03
FLESCH, ERWIN	Potable Well Letter Issued	7/31/03
FLESCH, ERWIN	Potable Well Data Received	8/25/03
FLESCH, ERWIN	Out of Service UST Extension Approved	9/7/03
FLESCH, ERWIN	Potable Well Data Comments Received from BEMQA	10/3/03
FLESCH, ERWIN	Potable Well Letter Issued	12/4/03
FLESCH, ERWIN	Remedial Action Progress Report Received	1/5/04
FLESCH, ERWIN	Remedial Action Progress Report Received	7/2/04
FLESCH, ERWIN	Remedial Action Progress Report Approved	8/24/04

FLESCH, ERWIN	Custom Task Placeholder	1/4/05
FLESCH, ERWIN	Remedial Action Progress Report Notice of Deficiency Issued	3/29/05
FLESCH, ERWIN	Remedial Action Progress Report Received	7/5/05
FLESCH, ERWIN	Remedial Action Progress Report Approved	10/31/05
FLESCH, ERWIN	Remedial Action Progress Report Received	12/29/05
FLESCH, ERWIN	Remedial Action Progress Report Received	7/27/06
FLESCH, ERWIN	Remedial Action Progress Report Received	1/11/07
FLESCH, ERWIN	Remedial Action Progress Report Received	7/12/07
FLESCH, ERWIN	Remedial Action Progress Report Received	1/16/08
FLESCH, ERWIN	Remedial Action Progress Report Received	6/20/08
FLESCH, ERWIN	Remedial Action Progress Report Received	1/2/09
FLESCH, ERWIN	Remedial Action Progress Report Received	6/25/09
FLESCH, ERWIN	Remedial Action Progress Report Received	1/4/10
FLESCH, ERWIN	Remedial Action Progress Report Received	1/3/11
CAULKER, COMFORT	Receptor Evaluation (Initial) Received	3/1/11
MAGNANAO, TITUS	Receptor Evaluation (Initial) Reviewed	3/22/11
CRAMER, DON	LSRP Opt-in Request Approved	3/26/11
CRAMER, DON	LSRP Request to proceed w/o Department Pre-approval Received	3/26/11
CRAMER, DON	Transferred from BUST to Other	3/26/11
,	Case Transferred	5/19/11

#### **UST Tank Construction - Contents**

SUNOCO 0007-6851 3321 W RT 33

Neptune Twp NJ 07753

#### **Terminated**

Tank No:E1	Tanks Status: Removed
	Construction
Tank Install Date	12/15/82
[Tank Size/Units	8,000
T	Hele de la Consulta de

Liam Olzo/Olino	0,000
Tank Contents	Unleaded Gasoline
Tank Structure	Single Wall
Pipe Structure	Double Wall

Construction & Contents Tank/Pipe	Туре
Pipe	Fiberglass-reinforced plastic
Tank	Fiberglass-reinforced plastic

#### ----- Monitoring ------

Spill Cont. Fill Pipe	Yes
Tank Overfill Prot.	Yes

Monitoring & Status.Tank/Pipe	Туре
Pipe	Automatic line leak detector
Pipe	Tightness Test
Tank	In-tank (automatic) monitoring

Tanks Status: Removed

#### ----- Construction -----

Tank Install Date	12/15/82
[Tank Size/Units	8,000
Tank Contents	Unleaded Gasoline
Tank Structure	Single Wall
Pipe Structure	Double Wall

Construction & Contents Tank/Pipe	Туре
Pipe	Fiberglass-reinforced plastic
Tank	Fiberglass-reinforced plastic

Spill Cont. Fill Pipe	Yes
Tank Overfill Prot.	Yes

Monitoring & Status.Tank/Pipe	Туре
Pipe	Automatic line leak detector
Pipe	Tightness Test
Tank	In-tank (automatic) monitoring

Tank No:E3
------------

Tanks Status: Removed

#### ------ Construction ------

Tank Install Date	1/1/83
[Tank Size/Units	8,000
Tank Contents	Unleaded Gasoline
Tank Structure	Single Wall
Pipe Structure	Double Wall

Construction & Contents Tank/Pipe	Туре
Pipe	Fiberglass-reinforced plastic
Tank	Fiberglass-reinforced plastic

Spill Cont. Fill Pipe	Yes
Tank Overfill Prot.	Yes

Monitoring & Status.Tank/Pipe	Туре
Pipe	Automatic line leak detector
Pipe	Tightness Test
Tank	In-tank (automatic) monitoring

Tank No:E4	Tanks Status: R	emoved
	Construction	

Tank Install Date	1/1/65
[Tank Size/Units	550
Tank Contents	Waste Oil
Tank Structure	Single Wall
Pipe Structure	Single Wall

Construction & Contents Tank/Pipe	Туре
Pipe	Bare steel
Tank	Bare steel

Spill Cont. Fill Pipe	No
Tank Overfill Prot.	No

Monitoring & Status.Tank/Pipe	Туре
Pipe	None
Tank	None

Tank No:E5

Tanks Status: Removed

#### ----- Construction -----

Tank Install Date	5/19/00
[Tank Size/Units	8,000
Tank Contents	Medium Diesel Fuel (No. 2-D)
Tank Structure	Double Wall
Pipe Structure	Double Wall

Construction & Contents Tank/Pipe	Туре
Pipe	Other: Pisces aka OPW Fueling Components
Tank	Fiberglass-reinforced plastic

Spill Cont. Fill Pipe	Yes
Tank Overfill Prot.	Yes

Monitoring & Status.Tank/Pipe	Туре
Pipe	Automatic line leak detector
Pipe	Tightness Test
Tank	In-tank (automatic) monitoring



#### **APPENDIX D**

#### **SITE PLAN**

## CERTIFIED LIST OF PROPERTY OWNERS WITHIN 200' OF LOT 4, BLOCK 3301 TOWNSHIP OF NEPTUNE

5											
8:8	22	13	19	12	13	12	22	12	12	12	
PROPERTY LOGATION 1 SUMMER TELD LANS	5322 HIBMMY 3	NOME	3316 BIDWAY 23	SSTIS HIGHWY SS	3310 HISBAY 2	HIGHWY 33	III HIGMET 33	ZZ YANGWAY ZZ	SS15 HIGHWY SS	SECT HIGGRY SS	SO HILL SO
E 2	22	8	33.16	22.52	3110	3317	ñ	ii.	2115	H	2
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ipeny, Inc.	
New Jensey- Amerikan Water Co riptory, Attn: Donns Short GIS Supervisor 1025 Janrel Oak Road Voorfnees, N.J. 08043	Verizon
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Legal Department 17th Filoce
Clo Land Life Militars
Clo Land Life Militars
S40 Bould Street
Newark, N.J. 07102
New Jensey Valuntal Can Company
Atta: Right of Way Department
Half S Wysberit Road
Wall Twy, N.J. 07713

ey Central Power & Light Compiny After Land Use Matters 300 Madison Avenue Merristown, N.J. 07960

SHT. No.	DESCRIPTION	LATEST REVISION
-	COVER SHEET	
2	EXISTING CONDITIONS PLAN	
3	EXISTING TREE SURVEY PLAN	
4	DEMOLITION PLAN	
2	DIMENSION & CIRCULATION PLAN AND CONSTRUCTION DETAILS	
9	SIGHT TRIANGLE PLAN	
7	GRADING PLAN	
8	UTILITY PLAN AND PROFILES	
6	SOIL EROSION & SEDIMENT CONTROL PLAN	
10	SOIL EROSION AND SEDIMENT CONTROL DETAILS	
11	LANDSCAPE AND LIGHTING PLAN AND DETAILS	
12	CONSTRUCTION DETAILS	

SHT.	DESCRIPTION	LATEST REVISION	
-	COVER SHEET		
2	EXISTING CONDITIONS PLAN		
2	EXISTING TREE SURVEY PLAN		
4	DEMOLITION PLAN		
2	DIMENSION & CIRCULATION PLAN AND CONSTRUCTION DETAILS		
9	SIGHT TRIANGLE PLAN		
7	GRADING PLAN		
89	UTILITY PLAN AND PROFILES		
6	SOIL EROSION & SEDIMENT CONTROL PLAN		
10	SOIL EROSION AND SEDIMENT CONTROL DETAILS		
11	LANDSCAPE AND LIGHTING PLAN AND DETAILS		
12	CONSTRUCTION DETAILS		
13	13 NJ DEP PERMIT PLAN		

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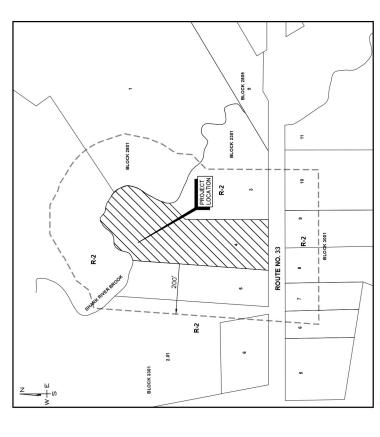
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CHAIRPERSON		
PLANNING BOARD (		

DATE
LANNING BOARD ENGINEER

PRELIMINARY & FINAL SITE PLAN

### GALILEE EGLISE ADVENTISTE, INC. PROPOSED CHURCH LOT 4, BLOCK 3301

TOWNSHIP OF NEPTUNE MONMOUTH COUNTY, NEW JERSEY

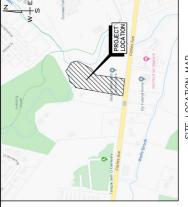






GALILEE EGLISE ADVENTISTE, INC. 3 RYJAC COURT BRICK, NEW JERSEY 08724 OWNER AND APPLICANT:

BUCKMAN ARCHITECTURAL GROUP 1127 WATCHUNG AVENUE PLAINFIELD, NEW JERSEY 07060 TEL.: (908) 241-3457 ARCHITECT:



SITE LOCATION MAP SCALE: 1"= 200"

#### GENERAL NOTES

- THE PROPERTY IS INNOWN AS LOT 4, BLOCK 3301 AS SHOWN ON SHEET 33 OF THE OPPICIAL, BLOCK MAY OF THE TOWNISHP OF HEPTUNE, MOMERUTH COUNTY, NEW JESSEY, LIGST REVISED APPLE 8, 2014.
  - OWEST/PRUCKET, GALLE EGIES ADVENTET, NC... THE APPLICANT PROPOSES TO CONSTRUCT A 4,000 SF CHRICH FACULTY WITH A BASSARST LEVEL. THE PROPERTY IS GACUITE WITH TROMBUSY CONSTIT WHAT MESSECHIA. (N-2) 200 WE CONTINUE A TOTAL THACK OF 23.8 AUGUS

ST KINDS (MODE OF MORPHLY) REQUIREMENTS			
MINIMUM REQUIREMENTS	REGUINED	EXISTING	PROVIDED
LOT AREA	12,500 SF	141,136.89 SF	141,136.89
FRONT YARD SETBACK	15 FT	N/A	293.24 FT
SDC YARD SETBACK	20 FT	N/A	21.82 FT
REAR YARD SETBACK	20 FT	N/A	>20 FT
SET BACK FROM RESIDENTIAL PROPERTY LINE	1.5 X HGT. OF MAIN ROOF UNE N/A	N/A	11.4 FT
	= 1.5x20=30 FT		
SIDE YARD PARKING LOT SET BACK	20 FT	N/A	19.2 FT *
REAR YARD PARKONG LOT SETBACK	10 FT	N/A	>10 FT
MAXIMUM REQUIREMENTS			
NUMBER OF STORIES	2.5	N/A	-
BUILDING HDGHT	35 17	N/A	× 35 FT
PARKING REQUIREMENTS 1 SPACE/4 SEATS -	250/4-63	N/A	2
VARIANCE REQUESTED			

The second story or care during whom the second story or care during the

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4	205.11 FT 205.11FT		600 FT 600 FT	L		62.36 FT N/A	> 30 FL > 30 FL			0.31 0.31	2.53%	6.60K	25 H 25 H	
10,000 34	100 FT	100 FT	100 FT	25 FT	10 FT	25 FT	30 FT	2.400 SF		4.30	30%	40%	35 FT	
OI WILK	OT WIDTH	OT PRONTAGE	нь н	RONT YARD SETBACK	DE YARD SETBACK	CAMBINED SIDE YARD SETBACK	EAR YARD SETBACK	PROVABLE ASEA	AXMUM REQUIREMENTS	ENSITY (DU/ACRE)	UILDING COVER	DTAL LOT COVER	UILDING HEIGHT	

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20. THE CONTRACTOR IS RESPONSELE FOR PROJECT SAFETY INCLIDATE PROVISION OF ALL APPROPRIATE SAFETY CONTISTS AND THE NAME REQUIRED.

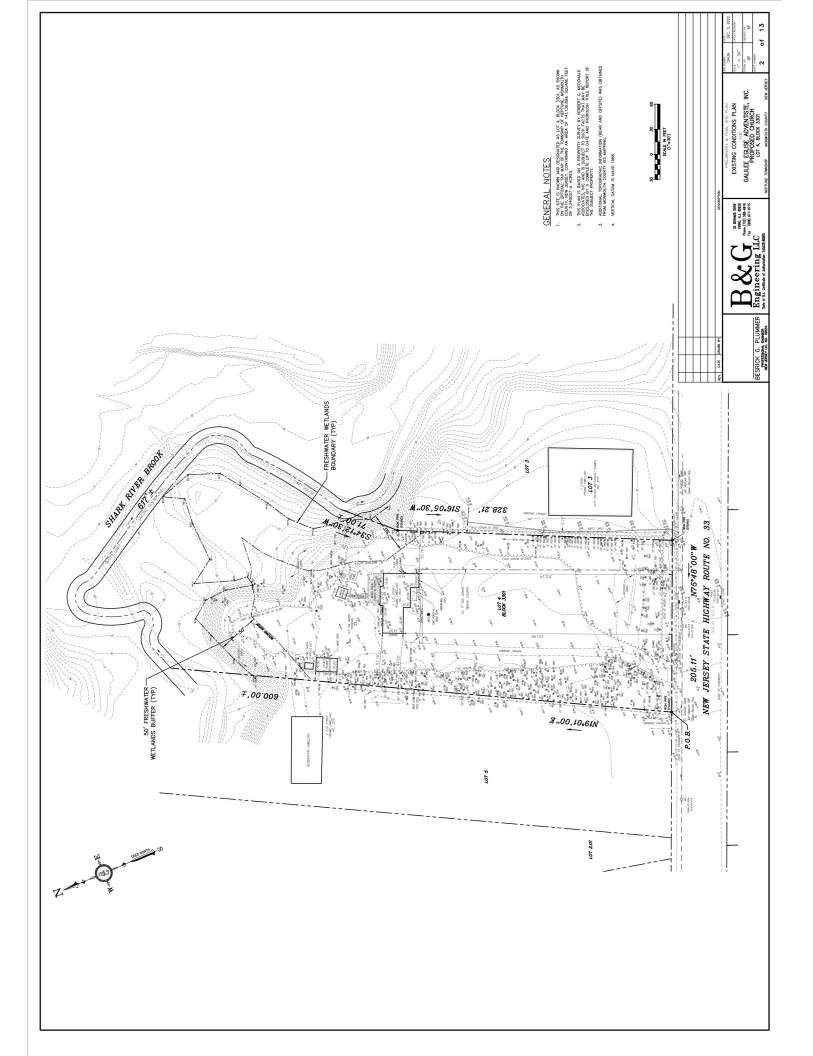
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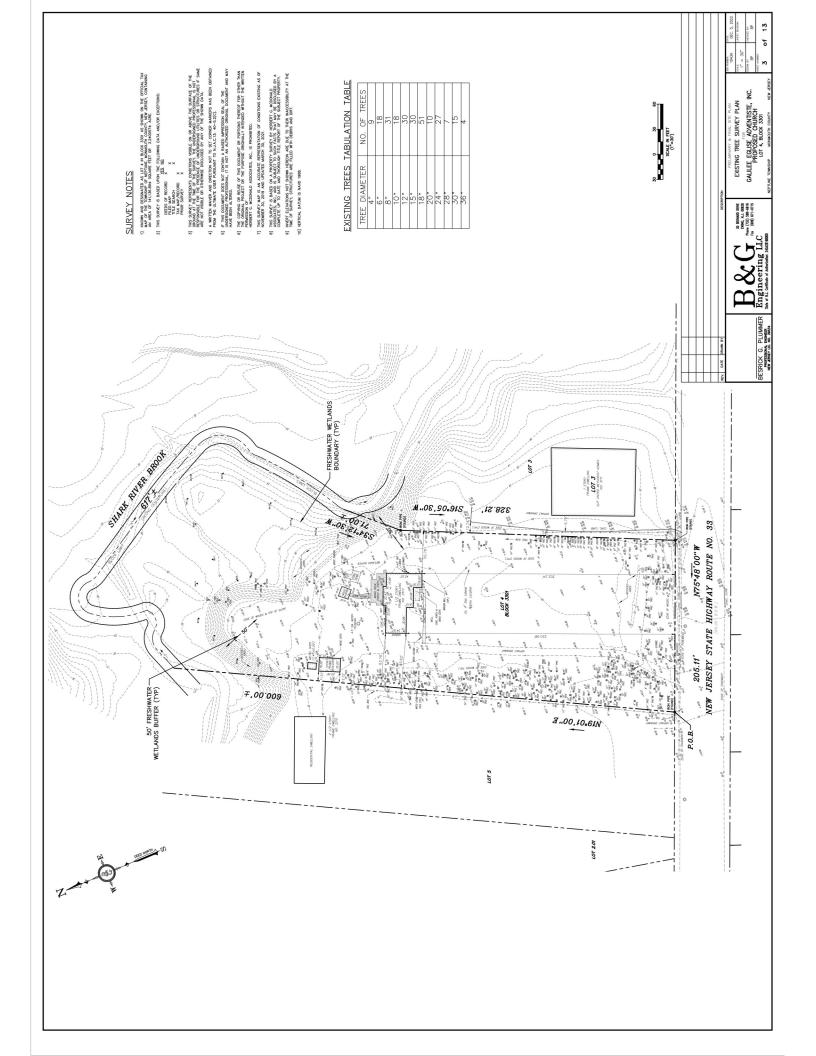
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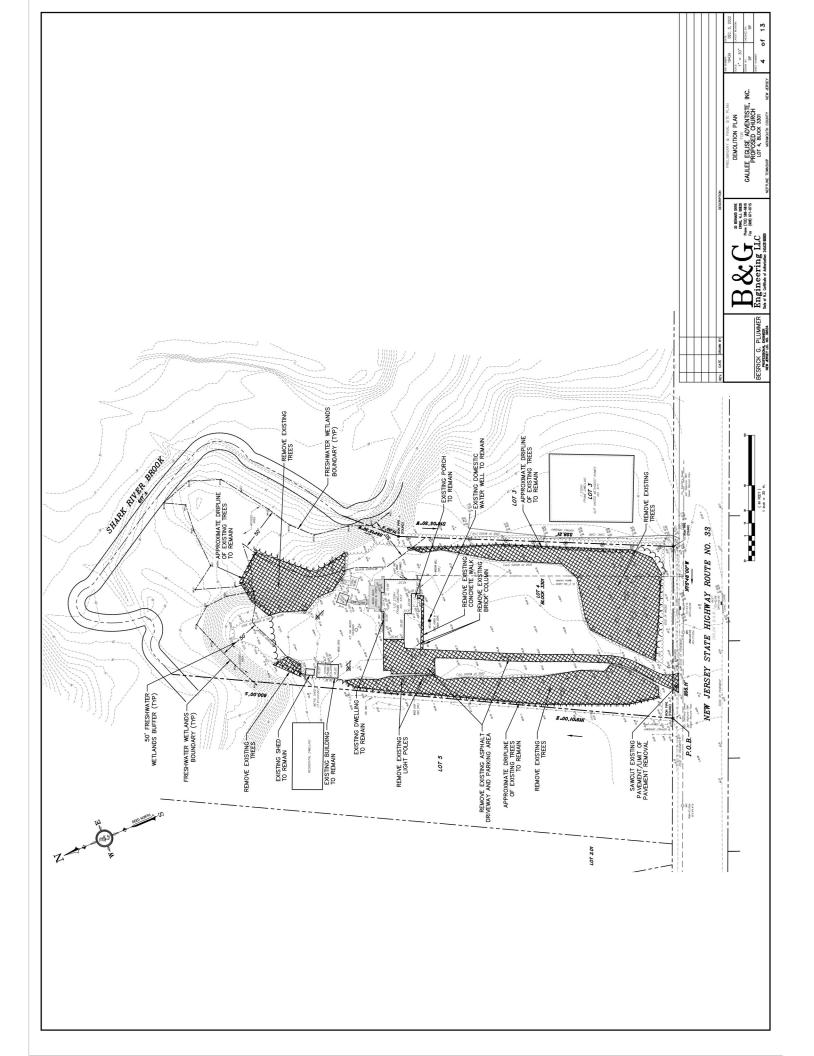


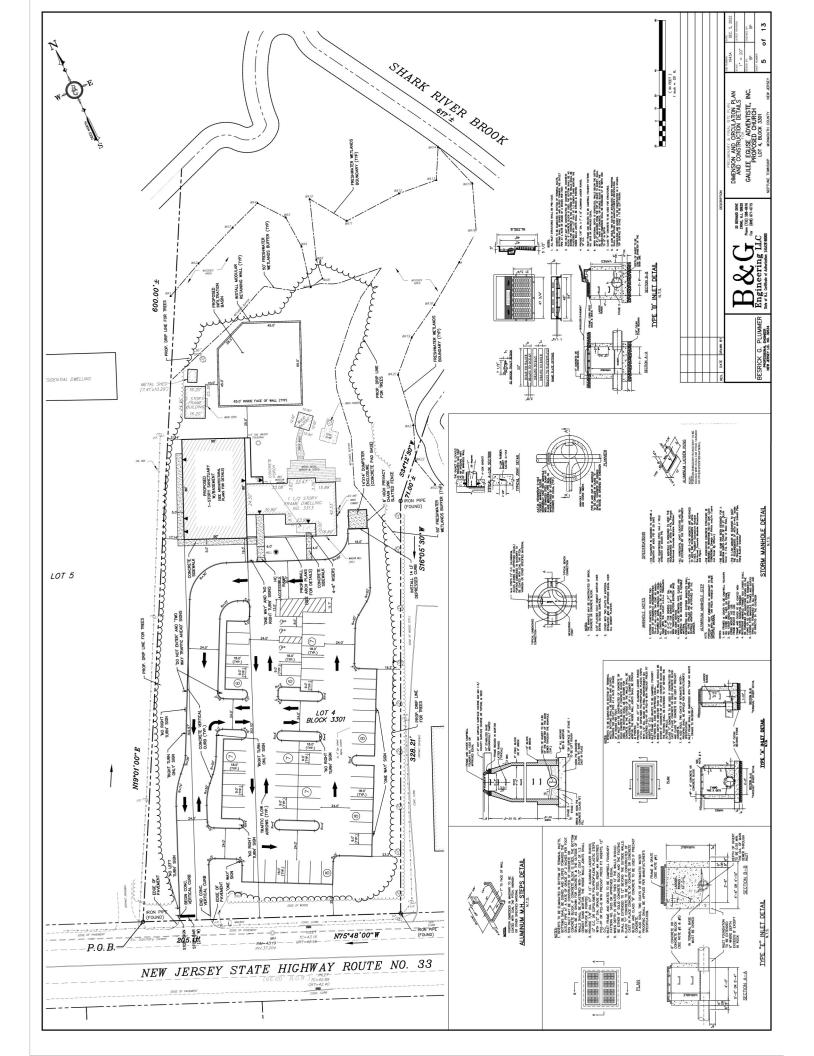
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PRELIMINARY & FINAL SITE PLAN	COVER SHEET	GALILEE EGLISE ADVENTISTE, INC.	PROPOSED CHURCH LOT 4, BLOCK 3301

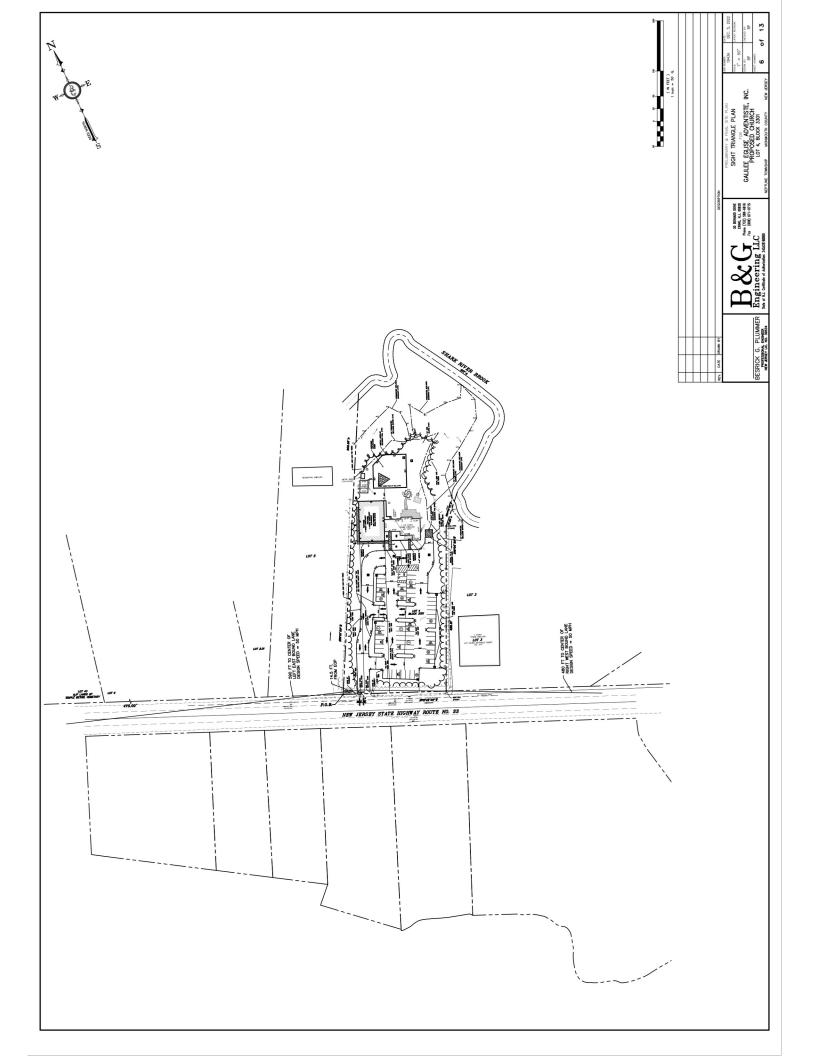
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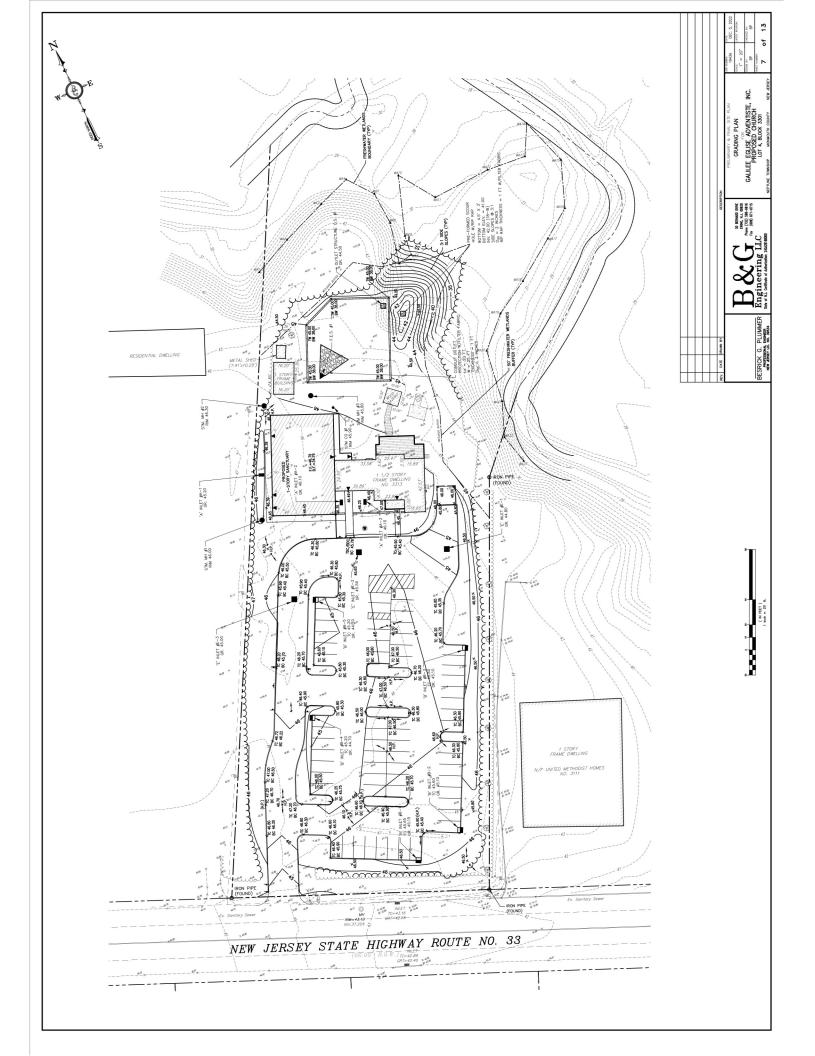


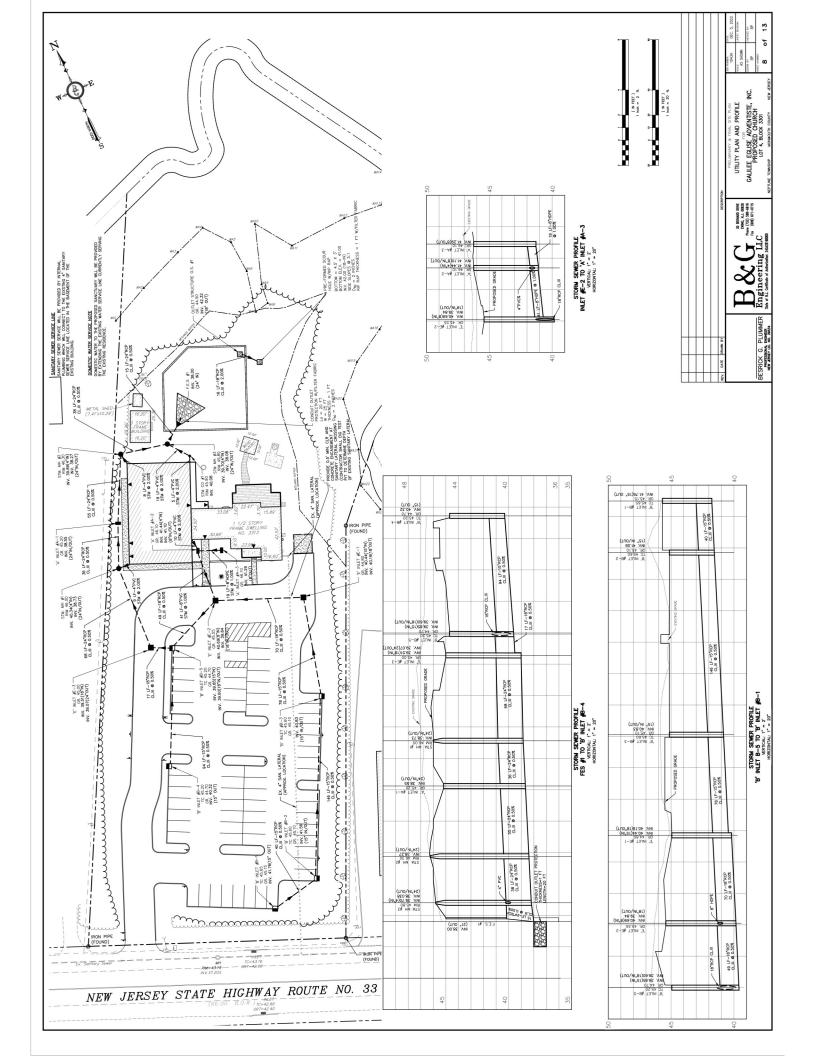














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HEAVY DUTY 5 ML. POLYETHYLDIE TARP REQUIRED FOR SOLS TESTING AT 4.5 PH OR LOWER

TEMPORARY TOPSOIL STOCKPILE DETAIL

#### GRACE AS NEEDED AND FEASIBLE TO FERNET SHE USE OF CONNENDAM, EQUIPMENT FOR SEEDING SPECIAL SELECY SPECIALISM, NO MALCH ANDROHES, ALL GRAENS SPECIAL BY DONE IN ACCOUNTING WHI STRANDED FOR LAND GRACES. MARGONIN, MOR N. SEEDO JAN 1976, APROLING N. REGION SHALL BE COLUMN FOR THE COLUM LHSTALL NEEDED DROGON CONTROL PRACTICES ON FACULTES SUCH AS DOMESTORS, GAAGL-TABLIZATION STRUCTURES, CHANNEL, STABLIZATION MASANES, SEDMENT BASINS, AND WITGHARTS. PERMANENT SEEDING SPECIFICATIONS

The control of the co NORTH AND THE WAS TRAINED BY THE PERSON AS REAL AS PROMOTED TO A FORE SWEN AS A DOC. SWENNEY THE THALL HANDREN OF REDSEN AS RECEIVED WHICH HANDREN OF DEPOSIT STREET, COUNTRY, THANK THE THAL HANDREN OF ECONOMISE SERVING A PRACEDURAL UNITY. A PRACEDURAL UNITY ASSESSMENT OF THE PERSON OF SWENNEY, THANK THANK THANK THE A PRACEDURAL UNITY. HER ACO PROCESS DGL, DGLS HANNO A PH OF 4 CRILLES OR CONTRARD THEY SLUTGE SHALL BY CONTROL WEY A MARKEN OF 12 NOCES OF SCI, HANNO A PH OF OR WAYE STORE HALMS PERMEATIN, BZ STANDARD FOR MANAGABIT OF HON ACO-PROCESSORS FOR PECPINS PERMEATING.

### A RELET A MOTHER FINA THALE 4-2 ON USE A MOTHER RECOMMENCED BY MITGES CONFIDENCE CEDEBOOK ON ANALYSE TRACKINGS OF THE STATE OF CHARGE AND THE ANALYSE OF THE STATE OF THE ADDRESS OF

ATTENDED FRANCE DIE SOL WITH A CORROLATED MELLEN MELLASSING GOOD SEED-TO-SOL CONTACT: SESSING CAPILARY: AND MAYING SEEDAND ROLLEN MELLEN WITHOUT SESSING CAPILARY: AND MAYING SEEDAND ROCKING. THIS IS IN PREPARED AND WATER CONSERVATION OF SEE OF MACHINE SEEDAND SEEDAND. COMPATION, SIZENT IS PRIVING THE FAVORS SIZE UNFORKY BY HANG, CRODE (CONTRIVEN)
SIZENCE (FOR SIZENC, HALL, OR CALENDARD SIZENC, DOUGH OF DOUGH ON THAIL, INFORMATION OR
LANGUAGE SIZENCY, SIZE SHALL EN ROCKNOWN BY NO FE SAX, WHINE SHADOSE OF SIZENCY
REPRESENTED TO A SEPTION OF JAMES OF SIZENCY
REPRESENTED TO A SEPTION OF JAMES OF SIZENCY
REPRESENTED TO A SEPTION OF SIZENCY OF SIZENCY OR DESIZENCY OF SIZENCY
REPRESENTED TO A SEPTION OF SIZENCY OF SIZENCY OR DESIZENCY OF SIZENCY OF S When the second state of t WIND TRANSPORTED AND THE SECOND AND A COCK-SEASON MATLESS AND GRANSS AND LICEARS WHICH MAYORIZE GROWTH AT TEAPTHATHES BELOW 65% MAYORIZE BECOME ACTIVE AT SECT. SEE THALE 4-2, MATCHESS DAYS, MACHINESS DAYS, DAYSHORT OF THE MATCHES MATCHESS DAYS, DAYSHORT OF THE MANCH OF SEASON GRANSS.

AND ADMINISTRATION OF PERSONS AND ADMINISTRATION OF ADMINISTRATION TATION OR HIX. UNKNOWN DAMILLOAD STANK HAY THEN OF WILDEN, OF WITCH, DOZEN THE RATE OF HIX OF WILDEN OF HIX DAMILLOAD STANK HAY THEN OF WILDEN OF HIX DAMILLOAD STANK HAY THEN OF WILDEN OF HIX DAMILLOAD STANK HAY THEN OF WILDEN OF WILDEN OF HIX DAMILLOAD STANK HAY DAWN HAY THEN OF WILDEN OF WILDEN OF HIX DAMILLOAD STANK HAY DAWN HAY THEN OF LAND WILDEN OF WILD WANTED STANK HAY DAWN HAY THEN OF LAND WILD STANK HAY DAWN HAY THEN OF LAND WILD STANK HAY DAWN HAY DAWN HAY THEN OF LAND WIND STANK HAY DAWN HAY DAWN HAY DAWN HAY THEN OF LAND WIND STANK HAY DAWN HA FOR ANY TITLE A. LOSS CONTROL FOR THE TITLE TO THE SECURITY OF A CRAMPTI (MALCH ANDPRING COALTR TOQ) = A THACTRA-CRAME MATLECET, SCHERALT LEEK A DOS ANDROĞET STORAGET OF THE OFFI TOS ANDROĞET STEMALET SCHERALT STORAGET OF THE OFFI THE STORAGET ST. MATLET TO AREA THACKERS MATCH AND THE OFFI CORTING OFFI SCHERALT STARM MACHINET RE 2 TOGS FOT ADD. L MALCH NETTHOS — STAPLE PAPER, JUTE, COTTON, CR. P. USE, A DECHADABLE NETTHOS IN AMEAS TO BE MOMED.

APPLACED BOLD IN BUILD TO MOORE SALT HAT, HAY OR STAFF MALCH. IN VILLES, AND AT DESCRIPTION OF WATCH. AND AT DESCRIPTION OF WATCH. AND AT DESCRIPTION OF MALCH STAFF WATCH.

MODELER OF DATE THE MALE IN THE WASTE TO THAT THE SECOND THE SECOND THAT THE SECOND THE SECOND THE SECOND THAT THE SECOND THE SECOND THE SECON ONTETE BRODS - HOJ POUND TRAFFED DALSON MODEL WIT WITH MAD WE OUTDOOR TO THE UNIT OF THE WAS THE WAS THE OWNER, SPALL BY CHARLY ON THE WAS THE WAS THE OWNER OF THE WAS THE WA ITELLIE DE LOS CANTON DE LOS C OTE: ALL MARES GREN ARDY ARE RECEITED TRADE NAMES. THE DOES NOT OF RECOMMEDIATION OF THESE PRODUCTS, TO THE EXCLUSION OF CHAIN PRODUCTS.

A CONTROL OF THE PROPERTY OF T ance dos groups wattre compat and slow finites withouth items (with reducing) and second or seco F SOL WOTTER IS GOTODIT SAPOY NEW SEDING WITH AGGOATE WATER (A MHALLA OF 114 ROSI MELOLO DE TO THEE A NEW VAIT, WERE WATERING OF MALE STRAINEDS TO THE SEDINGLY THE WHOM MEETING AND MAKE IN MAINIMALLY OFF OR HOT WATERING OF OR DOUGHT STEEL.



 NETALL NEEDED EROEGN CONTROL PRACTICES OF PACILITIES SUCH AS ENDERDONS, ORACE STABLEADON STRUCCHINES, CHANNEL, STABLEADON MEASURES, SEGNEDT BARGNS, AND INTERNATIS, SEE STABLANDS TO THEORY 42. GALCE, AS METED AND FASHER TO FERSET THE USE OF CONFIDENCE, EDJEMBER FOR SEEDING PREPARATION, SEEDING MACHINEM AND VARIOUS MACHINEM SHOULD BE DONE I ACCORDANCE WHIS TRANSMED FOR LAND GRADING, TH. 18-1. MANDATELY PROF TO SEEDING, THE SUPPLICE SECULD BE SCHOOLDS OF 12" WESTE FROM THE SECULD SECUNDATELY THE PARTIES IN PROBABILE ONLY WHICH THERE IS NO DANKER TO LAKENDOSPACE UTLANDS (CARLE). SPECATION SYSTEM, CPL.)

SOIL TREATED WITH LIMESTO AT A RATE OF 6 TONS/ACH

1. ACD PRODUCING SCALE AND UPON AS SOCIAL CONTUNING BION SULFOR WHITH A PLAN A SCALE AND A

ACID SOIL MITIGATION DETAIL

24" OF TOPSOL TO BE INSTALLED IN ARE FOR TREE OR SHRUB PLANTING.

STABLE

WATTRIAL (PH > 5)

- APPLY ORDINO LIMETIDE AND TIFTILLER ACCORDED TO SOL, TIFTI ECONAMIDATIONS SICH AS THE PURPLES FATISHED CO-PUBLIF FATISHEN SOL, BANKE MALES FOR ANAMER THEN THE CON-BUTTERS CONTRACT CITIZENS OFFICES FOR THE SHALL AS APPLIED. AT THE SALE OF SON TAXOST THE ALSO SHALL AND THE SALE AND THE SHALL . HENCET SECREDA JAST REFORM SECOND, IT THATTIC INIG LEFT THE SOL. COMPACTED. THE ARCA MAST BE RETALLED H ACCORDANCE WITH THE ARCAY. A week used, not pressure in 19 of 25 a. a. dealers, as indepent, in a charge of a social wife in proparties used to the company of time section (company). He has used social or of the strong of regional on the company contract contract in Lace user, a relational, custom. 0. SOLS HOS IN SUITEES OF HAMME A PH OF 4 OR LESS RETER TO STANDARD FOR MANUFABRAT AND PRISOLOGIC SOLE, P.S. 1-1.
- SELECT SEED PROMERCIAND BAT NO. 2. LEGAL SOCIAL STATES SALES INFORMATION OF A RESISTORY TESTED NETTOR COUNT, WANTED THE CONTRACT THE MANAGEMENT OF THE MANAGEMENT O CONFIDENCE SEEDING, APPLY SEED VANCOMAY OF HAND, CYCLORE (CONFIDENCE), SEEDE, ONDO SEED, VINE, ON CALLON SEEDINGS EXCEPT ON REALIES, PROVIDED ON OUT SEADON SEED SEED SHALL OF EXCEPTIONS INTO THE SEE, TO A ROPH OF 1/A TO 1/A

ATTS CONTROLLED FROM THE STATEMENT OF STATEMENT OF THE ALXION STATEMENT OF THE STATEMENT OF MAJORRO IS PEQUED ON ALL SEZONS, MALON MIL NOJME, AGANST EROSON ESTONE GRASS IS NOTATIONED AND WILL PROMOTE TRANSPORT ESTONEDICH. THE COSTAND CONTINUES OF NOTATIONED AND WILLIAMS SOLL DROOM SHALL BE DEADED COMPLIANCE. WITH THE

STRUE OR NAY, UNREGITED SHALL GRAM STRUE, NAY PREE OF SEEDS, APPLED AT THE PAIT OF 1-1/A.
TO 2 TIDES OF SHE ANGE! (TO BE OPERAGE OF 1600 SOLDING SETT) COSTOP THAT WHERE A CARBOTT IN USE NATE OF A LOUID MACHINE MAY BE A LOUID MACHINE AND THE ANGE OF A PROCESSOR AND THE ANGE OF A STRUCT THE ANGE OF A PROCESSOR OF SET ANGEST AND THE ANGE OF THE ANGEST ANGES AND THE A A. ORMER (MILCH MODERN) TOOL), A THATON-DANN MALLERY, SOMEWAY LIST A DOO. NOW SEPECLAY CORRESSORY TO PAGE OF SEASON OF REMANDERS LIST RESINIALIST TO A MODERN HID TO SEASON OF THE CORRESSORY OF THE SEASON FROM THE SEASON FROM THE SEASON OF SLAFO, AND THE CARE, IN S. D. SHOW WOODS HELD TO HERRY 3 TO 3 HOUSE OF HE SOL. SLAFO, ROCKET, HELD TO RELICIONE, STARSS MAY RE FRINKS ROOM OF AFTER MAY NOW A MACH. ROCKET RELICY TO SURFACE STRESSMEN THE RETURN FOR A TO SHOW OF A MACH. ROCKET STRESS SLAFO THE WAR ARROND LIVES HEN THE OWN WINE FROM THE SALE. 2. MACON METHODS. STANDE PARCE, JUST, COTTON, OR PLASTIC METHOSS TO THE SOL SJIPPAC SEE A DECRACABLE METHOD IN MECKS TO BE MOMED. APPICATOR, SPREAD, MALCH URFORMY DE HARD OR MICHAROLALY DO THAT APPRICACING ASSOCIATION OF HAT APPRICACING ASSOCIATION OF HARD-APPILATION AND ADMINISTRATION OF HARD-APPILATION OF POSSIONE AND DESTINATION O AND DEBAU SHALL BE ADDOMEDRED BAREAUTLY AFTE PLACEARY TO MINISTED LOSS IT WER SEE THE THE MINISTED SEE THE OF IT THE PERSON WITHOUS REPORTS EPHONE UPON INC. SEE OF THE WAY, STEPHONE OF SLAFEL, AND COSTS. APPLICATIONS SPOULD BE HEAVIEW AT EXCES WHERE WAD MAY CATED 196 MALCA, IN
MALLYIS, MAY AT ORDSTS OF EAVIES. THE REMANDER OF THE AREA SPOULD BE UNIFORM IN
PROPAGATION.

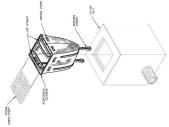
2), SYNTHERS EMPERS — HERF POLYMERS EMPERSON, MECHAEL WITH WRITH MEN TO SOUTH AND PROPERTY WITH WHITE IT SHALL DEPOKA ON COMES SHALL NO COMMON OF SOUTHER OF SHALL DEPOKATE OF SOUTHERS OF SOUTHERS AND THE PARKED AT SAILS STOCKED TO STOCKED WITH STREAM THE STOCKED 10. O concert was contracted and sense; a remain to contract contr

WOOD-TREE OF WIND-TREE OF PAGE 1992. WE WELL THAN THE STATE OF PAGE 1997 OF THE STATE OF THE STA FILETION SEAS. CONFESSOR DE CERECO PER NO FOR DOES DOES THE DESTRUCTIVE TO WITH CONTROL CONTRO NO COPILADA DE PULL 6.2 TO 0.4 HOURS OF WATER AFFEKABBO FOLLTIODD BALCH ON DES BED IS COPILADA PROFESSOR FOR SUPPOSED ACTUATION AND DOWNSON OF THE BALCH TO WHOMED ONE COMPAGE. WITH ALL MARTS ON ABOVE ARE RESERVED TRADE MARES. THE DOES NO COMMENCED OF CHIEF PRODUCTS.

SIMPLIFIED TESTING METHODS DETAIL



DEWATERING DETAIL
N.T.S.



NOTES OF THE PARTY STORM

1. CONTRACTOR ID CLEAN RUET PLIER AFTER EARY STORM

2. CONTRACTOR TO REMOVE FABRIC AND MESH JUST PROOR TO PANNO

3. ERBOVE RELEY PRODECTION WHEN THE CONTINEUTING DRAWAGE APEAS

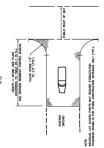
HAN' BEINS STABLIZED. INLET FILTER DETAIL

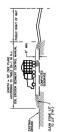
CONOMITE CUTOFF WALL

LENGTH AND WIDTH OF APPON

PLAPED BND SECTION OR HEADWALL

CONDUIT OUTLET PROTECTION DETAIL
N.T.S.



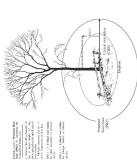


STABILIZED CONSTRUÇTION ACCESS DETAIL

A. A FACE THE WORTH BY DAY I REGISTER TO COME MORNELLE ARE INCOMED WITH A WEST COMETT COTING WILL IN USE COME TO COME

NOTES:

L. MINGE VARATIONS TO THE ABOVE DRESISTING ARE ADDREST ABUSE
OF THE RESIDE CLARETER DISERSOR.









THE STATE OF THE S

**JEMPORARY TREE PROTECTION DETAILS** 



SEDIMENT CONTROL DETAILS

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B&C read to the second that Board Bo

GALILEE EGLISE ADVENTISTE, INC. PROPOSED CHURCH LOT 4, BLOCK 3301

of 13

SILT FENCE DETAIL NOTE:

SAT TANG TO BE INSPECTED AND REMEDIAL
MANISTANCE PERFORMED BY THE CONTRACTOR WITH
24 HOURS AFTER EACH RAIN.

(OR EQUINALENT)

OAK OR OTHER (SPACING STORY)
HARDWOOD POSTS

(10 €)

