

PLANT LIST				
SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	CONDITION
<b>WETLAND PLANTS</b>				
		ILEX VERTICILLATA	WINTERBERRY	
		HAMAMELIS VIRGINIANA	WITCH HAZEL	
	22	QUERCUS BICOLOR	SWAMP WHITE OAK	36" MIN. HT.
		CORNUS AMOMUM	SILKY DOGWOOD	

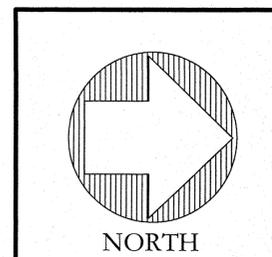
1. THE ABOVE LIST DOES NOT INCLUDE ANY SPECIES LISTED ON THE CONNECTICUT INVASIVE PLANT LIST AND NO PLANT ON THIS LIST SHALL BE PLANTED ON SITE

**SITE PLAN NOTES:**

1. Refer to original approved site plans for additional information.
2. Map Reference:
  - 2.a. Sheet C1, "Storm Drainage, and Wetland, Mitigation Plan, Prepared For, Dattco, Inc., Date September 27, 2019, Project # 0993" by Harry E. Cole and Son (Plan Set) Cover Sheet, "Site Development Plan, Proposed Site Expansion, By Dattco, Inc., property located at, #131 Tuttle Road, Middletown, Connecticut" Dated January 30, 2013 by MBA Engineering, P.O. Box 7316, Kensington, CT 06037, signed by Barton N. Bovee P.E. #13653 approved by City of Middletown January 31, 2013.

**LEGEND**

	= Existing utility pole		= Existing edge of pavement
	= Existing light pole		= Proposed curb
	= Proposed Light		= Existing/Proposed well
	= Existing fire hydrant		= Existing catch basin
	= Proposed fire hydrant		= Existing drainage manhole
	= Existing water valve		= Existing sanitary manhole
	= Existing gas valve		= Proposed catch basin
	= Existing underground pipe		= Proposed manhole
	= Existing treeline		= Existing utility box
			= Proposed sidewalk ramp
			= Existing contour
			= Existing spot elevation
			= Proposed contour
			= Proposed spot elevation
			= Deep test location
			= Percolation test location
			= Grade to drain
			= Proposed Riprap
			= Proposed Drainage Pipe



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engineering, surveying, planning.

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Tel: (860) 628-4484  
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www.hecole.com

PROJECT NAME:  
**DATTCO**

131 Tuttle Road  
Middletown, Connecticut

PREPARED FOR:  
**DATTCO, INC.**

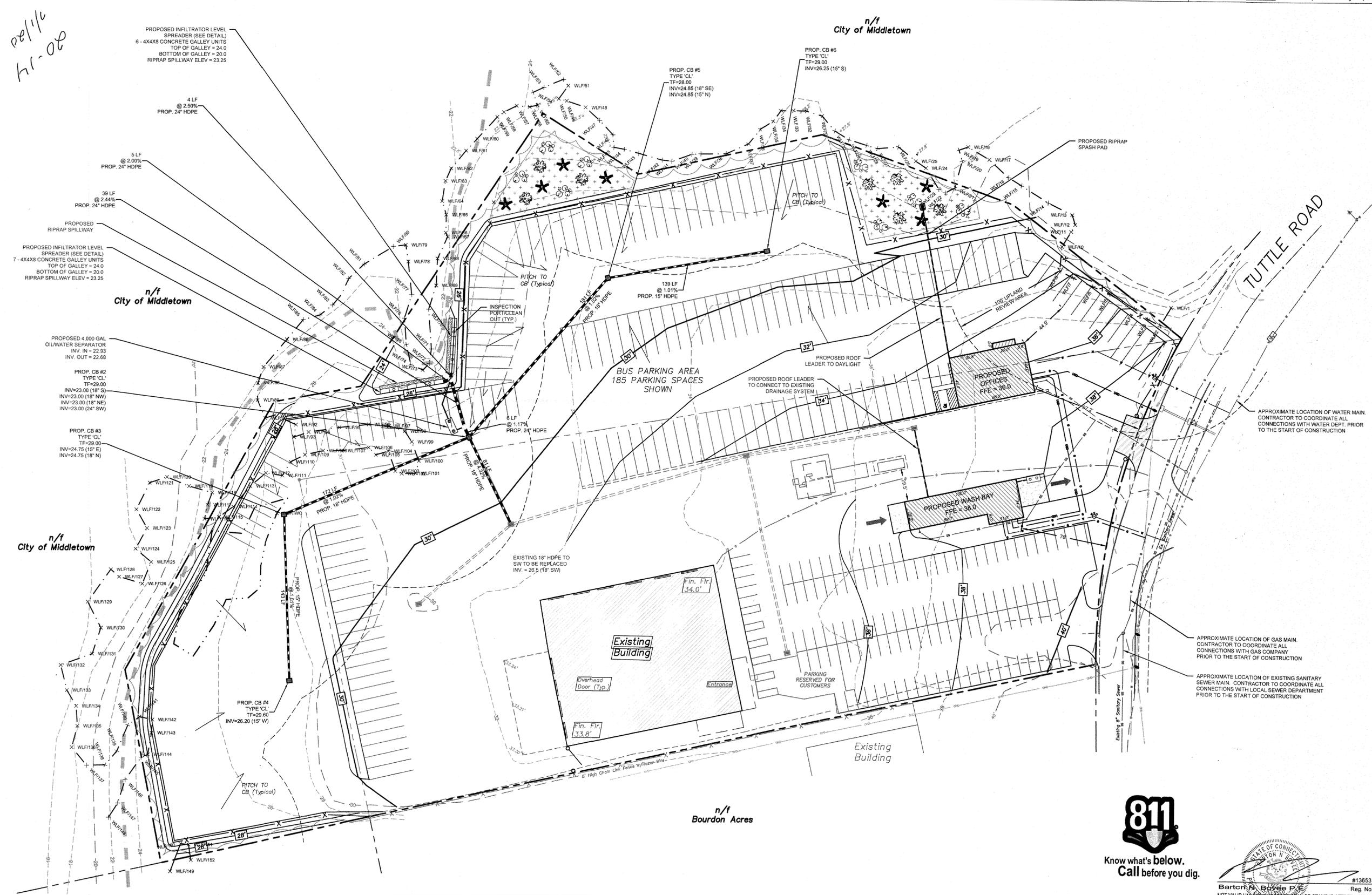
Sheet Description:  
**PROPOSED WASH BAY & OPERATIONS OFFICE PLAN**

Scale:  
1"=40'

Date: February 25, 2020  
Project #: 0993  
Drawn By: BTP  
Approved By: BNB

Revisions:	Date:	Descriptions:
1	June 24, 2020	Revise Building Sizes

Sheet #:  
**C1** 20.14  
1/1/20



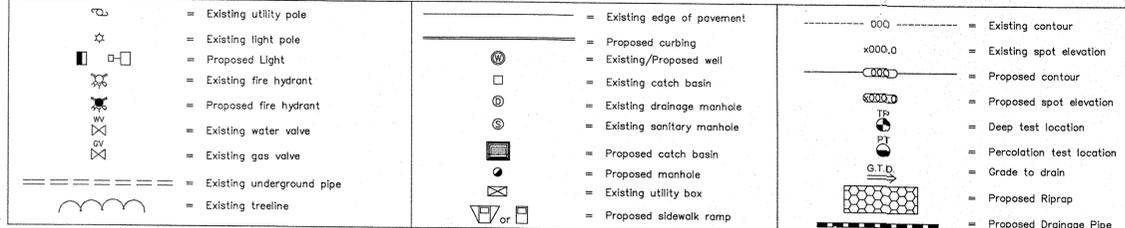
**811**  
Know what's below.  
Call before you dig.

**Barton N. Bovee P.E.**  
#13653  
Reg. No.  
NOT VALID UNLESS EMPRESSED SEAL OR STAMP IS AFFIXED HERETO

**UTILITY NOTES:**

- Contractor shall coordinate all utility work with Architectural Plans.
- Prior to any excavation, contractor to notify "Call Before You Dig" at 1-800-922-4455.
- All existing utilities shown are from best available information. The actual location of existing utilities shall be verified by the contractor prior to the start of the excavation activities.
- Contractor required to field verify all dimensions, elevations, quantities, and details prior to any construction.
- Damage to existing utilities as a result of the contractor's or any of their subcontractor's activities during the construction process shall be repaired as directed by the engineer at no additional cost to the owner.
- Utilities to existing facilities must be maintained by the contractor.
- The contractor shall be responsible for all dewatering during the execution of their work.
- All construction to conform to CT.D.O.T. Form 817 as amended to date.
- All work shall be completed in accordance with applicable standards for each utility company and corresponding local government.
- All public work in connection with this plan shall be completed within five years of the date of approval, or the approval is no longer valid.
- Engineering Department to be notified, 24 hours before any construction activity begins.
- Groundwater barriers may be required at the discretion of the local engineering department.
- All storm drainage pipe to be HDPE, unless otherwise noted.
- All Catch Basins/Inlets shall be cleaned prior to occupancy.
- Adjust all existing and proposed utility frames, grates, manhole covers, valve boxes, etc. to be flush with the proposed surface.
- Where field conditions call for on-site adjustments of finished grades, the owner's representative shall make the final determination.
- All existing utility lines to be abandoned shall be abandoned according to utility company requirements.
- On-site safety and regulatory signage as deemed necessary by the Police Department shall be installed at the expense of developer. The developer shall meet with the Police Department to review signage needs prior to the acceptance of the roadway and release of improvement bonds.
- Underground fuel tanks are prohibited.
- Contractor to coordinate all utility connections and installations with the respective local utility companies. All items to be installed in accordance with company's regulations and requirements.
- Refer to local water department's Regulations and Details for Additional Information.

**LEGEND**



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PROJECT NAME:

DATTCO

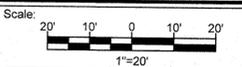
131 Tuttle Road  
Middletown, Connecticut

PREPARED FOR:

DATTCO, INC.

Sheet Description:

SITE UTILITY PLAN



Date: February 25, 2020

Project #: 0993

F.B. #: ---

Drawn By: BTP

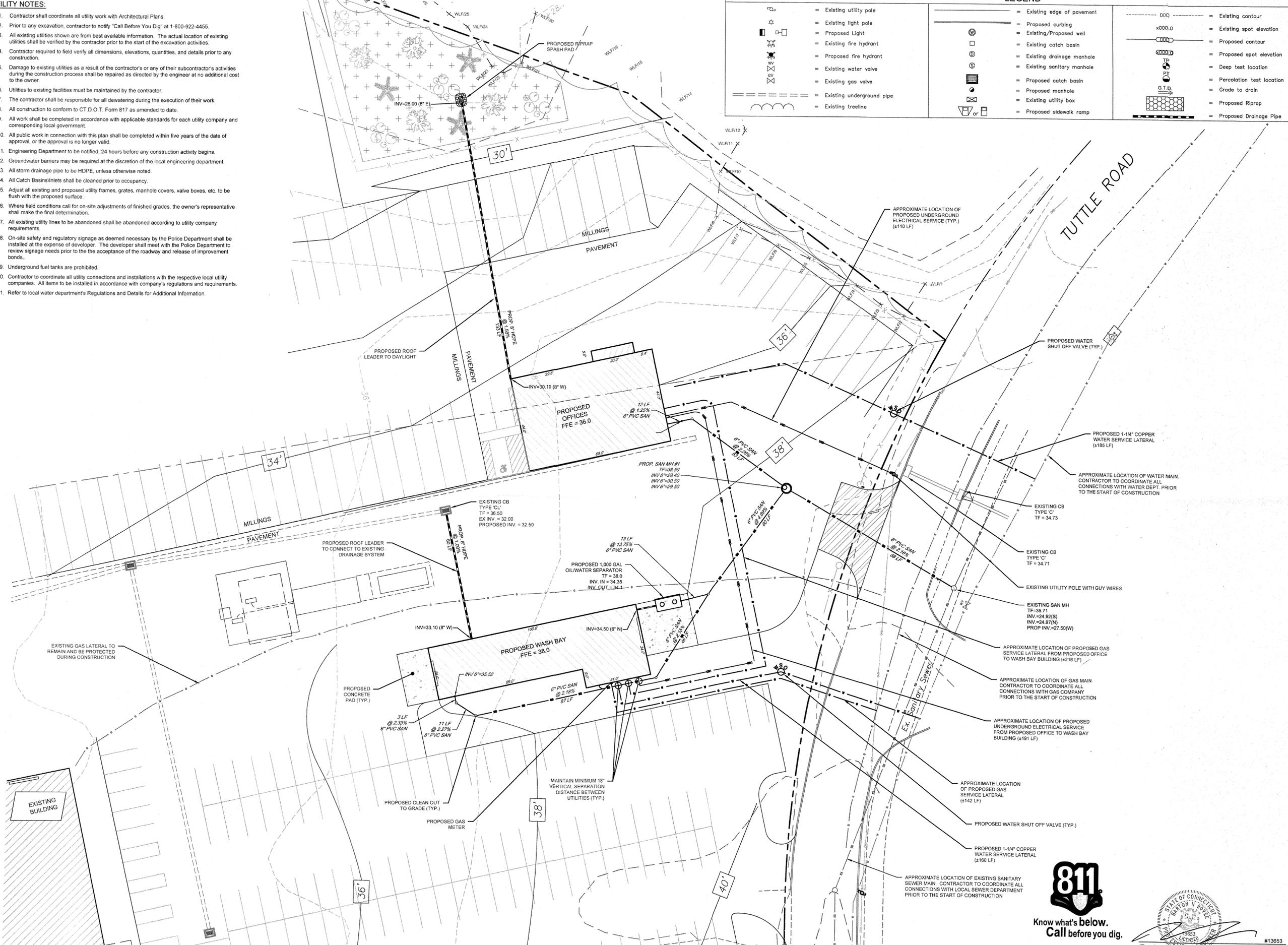
Approved By: BNB

Revisions:

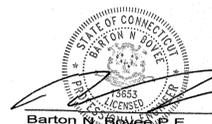
Date:	Descriptions:
June 24, 2020	Revise Building Sizes
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Sheet #:

C2



Know what's below.  
Call before you dig.



Barton N. Buehler, P.E.  
Reg. No. 13653  
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**SOIL EROSION AND SEDIMENT CONTROL NARRATIVE:**

- A. PROJECT INFORMATION**
- Project Description - The project site consists of one 8.8 acre parcel on Tuttle Road in Middletown, CT. Area of Development - 8.8 Acres.
  - Area Proposed Disturbance Due to Construction Activities - 8.8 Acres.
  - Estimated Start of Construction - 2019
  - Estimated Construction Completion Date - 2020
- B. SEQUENCE OF CONSTRUCTION**
- The tentative sequence of construction events are as follows and activities noted by a "Capital Letter" may occur concurrently.
- Conduct a pre-construction meeting with the OWNER, Contractor, Consultant Team, and Local, County and State agencies having jurisdiction over the project.
  - Field Stakeout the limits of all activities and install, at a minimum, a snow fence along construction limit lines along environmentally sensitive areas and protection areas. Silt fencing may be substituted where it coincides with this line, but only as approved by the OWNER (A)
  - Install silt fence along all sides contiguous to wetlands, watercourses and property owned by others affected by the work. Refer to the Soil Erosion and Sedimentation Control Plan for locations. (A)
  - After each rain storm monitor the sedimentation and erosion control structures, which may include riprap channels, sediment basins, plunge pools, etc. Routinely remove sediment during construction when controls exceed one half (1/2) their capacity; sediment shall be disposed of in an environmentally acceptable manner at an approved location. (A)
  - Clear vegetation within project limits, except trees designated to remain or in question, as shown on the plans. The decision of how questionable trees are to be treated shall rest with the OWNER and coordinated through the local agency having jurisdiction as construction progresses. All trees and shrubs less than 6" in diameter, and not to remain, shall be chipped and stored on site for mulch. (A)
  - Remove stumps and dispose of at a bulky waste site approved by the ENGINEER and local official having jurisdiction. Disposal of stumps within burial pits on-site shall be prohibited. (B)
  - Construct all temporary sedimentation and erosion control structures, including but not limited to: silt fence, stone check dams, water breaks, and sediment traps/basins. All structures and their locations shall be approved by the ENGINEER or the Inland Wetlands Enforcement Officer. Prior to the next phase of construction. (B)
  - Install drainage outfall pipe and temporary sediment basin along with temporary drainage diversions to sediment basin. If the proposed detention basin is to be used as a temporary sediment trap/basin and an outlet control structure is to be installed, all orifices and weirs are to be plugged water tight during construction. (B)
  - Strip topsoil and subsoil materials as required and stockpile them at locations that will not adversely impact any down gradient wetlands. Stockpiles may be relocated to meet job conditions but are subject to the ENGINEER'S approval. Provide temporary erosion controls on the downslope of all stockpiles. (B)
  - Bring proposed site areas to rough subgrade.
  - Conduct all rough cuts and fills for proposed buildings and associated parking. Making sure that all fill material is free of brush, rubbish, large boulders, logs, stumps and other objectionable materials. (C)
  - If blasting is required for any cuts, all proposed work is to be coordinated with all local officials having jurisdiction. The contractor is required to secure all permits for blasting operations in accordance with local and state regulations and conduct a pre-blast survey of surrounding properties. Rock spoil is to be disposed of in an appropriate manner as the site development plan may show or is locally permitted. (C)
  - Provide temporary seeding measures on all exposed soil which were damaged due to construction activities, are outside of construction traffic zones, and are not to be permanently restored or for a period in excess of thirty (30) days. Seeding and seedbed preparation are as specified herein or as indicated on the landscape plan. (C)
  - Excavate for and install storm drainage systems. Install strawbale ring sediment barriers at all catch basins locations. (C)
  - Bring proposed parking areas to pavement subgrade with processed stone and install binder course and curbing. Refer to details. (D)
  - Construct all driveway entrance improvements as indicated on plans. (E)
  - Complete final subgrading for all grassed and landscaped areas. Prepare subgrades for placing a minimum of four inches of topsoil. Place topsoil only when permanent seeding and landscaping can follow within a reasonable time frame. (E)
  - Exercise final landscaping plan and permanent seeding to provide long-term stabilization. (E)
  - Complete final paving with top course and plant surfaces with pavement markings. (E)
  - Clean and remove all silt from within drainage structures and dispose of materials in an environmentally acceptable manner. (F)
  - Remove temporary measures once permanent measures have matured as approved by the Municipality's enforcement officer. (F)
  - Conduct final inspection with Municipality to identify deficiencies and establish punch list based on approved plans, complete to the satisfaction of the Municipality.
  - Construction Staging
    - Stage #1 - Rough grade site, stabilize steep slopes. Construct temporary sedimentation control measures, detention and retention basins.
    - Stage #2 - Install subsurface storm water systems, install underground utilities and first coat pavement.
    - Stage #3 - Complete parking areas, finish grade site and loam and seed all disturbed areas.

**GENERAL NOTES:**

- Additional notes and details are located on Sheet D1.
- At all times during construction, the Developer/Contractor shall be responsible for preventing and controlling on-site erosion including keeping the property sufficiently watered so as to minimize wind blown sediment. The Developer/Contractor shall also be responsible for installing and maintaining all erosion control facilities shown herein.
- All soils exposed during land disturbing activity (stripping, grading, utility installations, stockpiling, filling, etc.) shall be kept in a roughness by riprap or staking along land contours until mulch, vegetation, or other permanent erosion control BMPs are installed. No soils in areas outside project street rights-of-way and future pavement shall remain exposed by land disturbing activity for more than thirty (30) days before required temporary or permanent erosion control (e.g. watering, seed/mulch, landscaping, etc.) is installed, unless otherwise approved by the Town Engineer.
- All inlets shall be cleaned prior to occupancy.
- All slopes greater than 3:1 shall be protected with Erosion Control Blankets (S150 by North American Green or approved equal).
- All erosion control measures shall remain intact and operational until the site has been stabilized and vegetation is thoroughly established. This may occur after completion of construction, therefore it is critical for the Developer, Contractor and/or Owner to understand the erosion control responsibilities and maintain the erosion control measures.
- To minimize erosion of the sandy soils, vegetation shall be established immediately following completion of grading within each area. Vegetation may consist of temporary seeding or final loam and seed.
- If areas of work are not addressed by this plan or sediment and erosion issues arise in areas not covered by this plan, then the plan shall be augmented in the field. Contractor shall be responsible to insure no sediment or erosion problems encroach upon adjoining property. This may require additional barriers, swales and bales.
- All erosion and sediment control measures shall conform to the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control manual.
- All Dewatering shall incorporate the use of filter bags on discharge ends.

**STORMWATER MANAGEMENT MAINTENANCE SCHEDULE**  
MIDDLETOWN, CONNECTICUT

The following are the required maintenance and monitoring procedures.

**Riprap and Discharge Aprons** - Shall be cleared of all sediment deposits and invasive plant species and are to be inspected for rip-rap damage and deterioration. These procedures to be conducted yearly between May 1 and before September 15.

**Emergency Spillway** - Shall be cleared of all sediment deposits and invasive plant species and are to be inspected for riprap damage and deterioration. These procedures to be conducted yearly between May 1 and September 15. Repairs shall be executed immediately.

**Catch Basins** - All basin rim areas and sumps shall be cleaned of all sediment, trash and debris. These procedures to be conducted yearly anytime after May 1 and before September 15.

**Oil Water Separator** - Inspect monthly and clean as needed. Remove oil, grease, floatables and sediment with vacuum truck or catch basin cleaning equipment. At a minimum inspection and cleaning, if needed, should be conducted every six months.

**Swales** - All swales be cleared of all sediment deposits, invasive plant species and debris. Any erosion shall be repaired. These procedures to be conducted annually. Swales shall be inspected two times a year and after significant rainfall events. Additional maintenance, beyond schedule maintenance, may be required based upon inspections.

**Water Quality Basin** - Basin shall be cleared of all sediment deposits, invasive plant species and debris. These procedures to be conducted yearly between May 1 and September 15. Basin shall be inspected two times a year and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections.

**Slopes** - Slope erosion control blankets and vegetation shall be inspected twice a year and after significant rainfall events. Additional maintenance, beyond schedule maintenance, may be required based upon inspections. Any rills or channeling shall be repaired immediately.

**Parking Lot Sweeping** - Use mechanical sweeping on paved areas where dust and fine materials accumulate. These procedures to be conducted yearly anytime after May 1 and September 15.

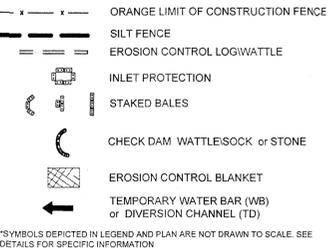
All sediment deposits, trash and debris shall be removed to a location off-site and disposed of in an environmentally acceptable manner.

**C. RESPONSIBILITY**

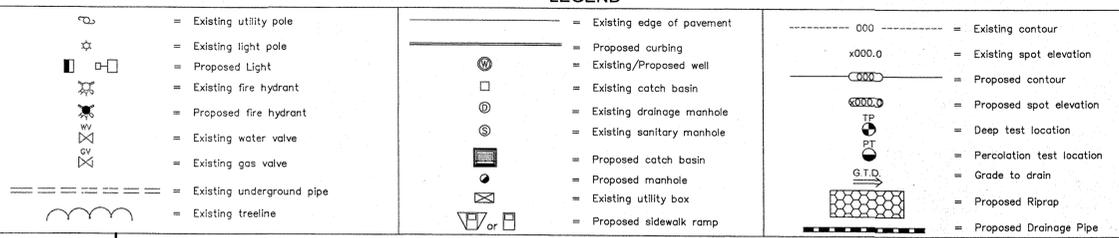
The responsibility for implementing and maintaining the Soil Erosion and Sedimentation Control Plan rests with the OWNER OF RECORD where any development of the parcel gives cause to erosion and sedimentation. It is also to be said that the OWNER OF RECORD shall be held responsible for informing all concerned regarding responsibility of the SE&SC plan and seeing that the plan becomes a part of the deed in the event the title of the property is transferred. The costs of all drainage erosion and sedimentation control measures will therefore rest with the OWNER OF RECORD.

SE&SC Emergency contact Information  
**Emergency Contact Name: Dattco, Inc. (James Paldino)**  
**Emergency Contact Phone Number: (860) 228-4878 x4744**

**EROSION CONTROL SYMBOL LEGEND**



\*SYMBOLS DEPICTED IN LEGEND AND PLAN ARE NOT DRAWN TO SCALE. SEE DETAILS FOR SPECIFIC INFORMATION



**TEMPORARY STORMWATER MANAGEMENT MAINTENANCE SCHEDULE (DURING CONSTRUCTION)**

The following are the required maintenance and monitoring procedures

**Swales** - All swales shall be mowed and be cleared of all sediment deposits, invasive plant species and debris. These procedures shall be conducted monthly. Swales shall be inspected weekly and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections.

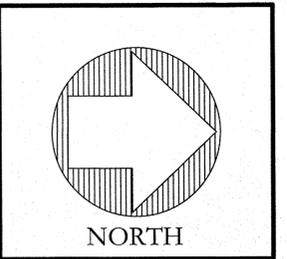
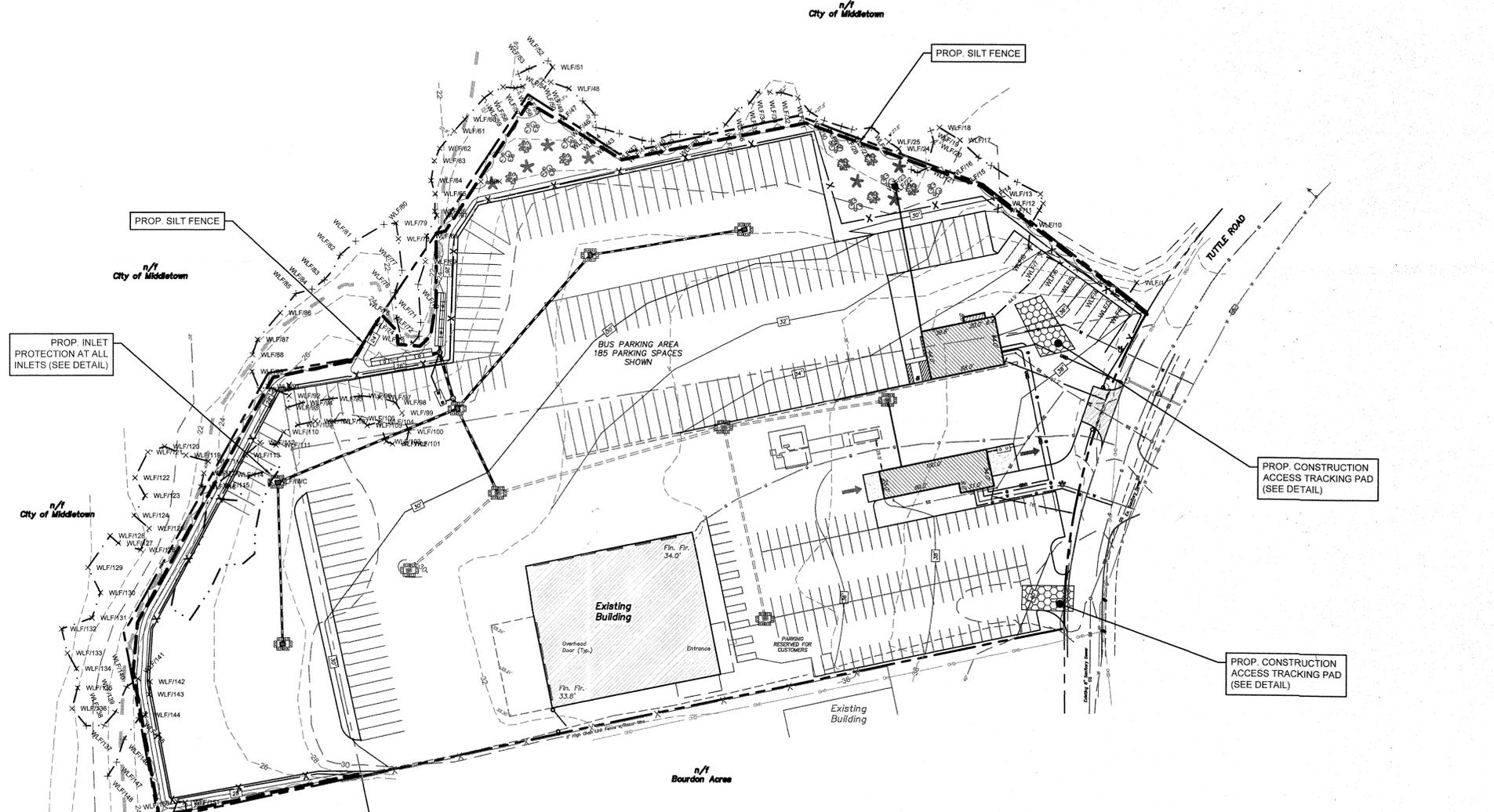
**Catch Basins** - All basin rim areas and sumps shall be cleaned of all sediment, trash and debris. These procedures shall be conducted monthly. Basins shall be inspected weekly and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections.

**Slopes** - Stabilized slopes are essential to preventing sediment movement. Any channels of concentrated flow, such as rills, shall be fixed immediately. Additional control measures, such as bales, riprap, sediment fence and erosion fabric may be required. Slopes shall be inspected weekly and after significant rainfall events.

**Sediment Barriers & Straw Bales** - Shall be inspected weekly and after significant rainfall events. Repairs shall be made immediately. Additional barriers and bales may be required depending upon the area of work. If conditions exist which can not be addressed with this plan, then additional barriers shall be implemented to prevent sediment from leaving the site.

**Street Sweeping** - Sediment from the construction site, which has accumulated on the existing streets shall be cleaned up immediately. Contractor to inspect daily.

**Wind Blown Sediment** - Shall be minimized. Unpaved travel ways shall be sufficiently watered to minimize wind blown sediment. Other unpaved surfaces shall be watered, temporary vegetated, roughing with disc or other measures in the Connecticut Guidelines for Soil Erosion and Sediment Control manual.



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PROJECT NAME:  
**DATTCO**

131 Tuttle Road  
 Middletown, Connecticut

PREPARED FOR:  
**DATTCO, INC.**

Sheet Description:  
**SOIL EROSION AND SEDIMENTATION CONTROL PLAN**

Scale:  
 60' 30' 0 30' 60'  
 1"=60'

Date: February 25, 2020

Project #: 0993 F.B. #: ---  
 Drawn By: BTP Approved By: BNB

Revisions:  
 Date: Descriptions:  
 June 24, 2020 Revise Building Sizes

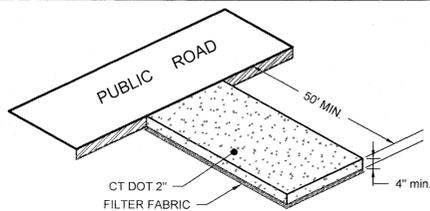
Sheet #:  
**ES1**



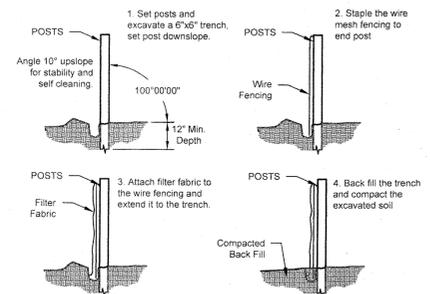
STATE OF CONNECTICUT  
 HARTFORD, CT 06103

**Barton N. Beves, P.E.**  
 #13653  
 Reg. No.

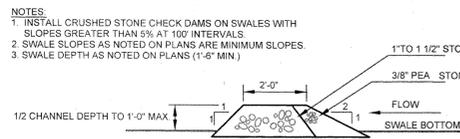
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CONSTRUCTION ENTRANCE DETAIL  
N.T.S.

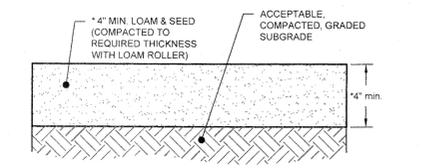


SEDIMENTATION BARRIER DETAIL  
N.T.S.



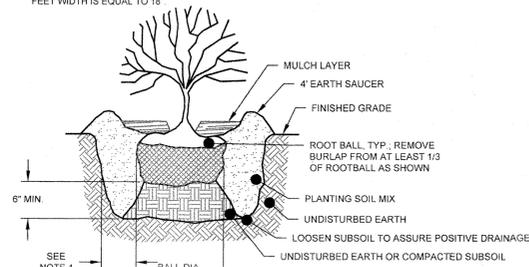
TYPICAL CRUSHED STONE CHECK DAM  
N.T.S.

GENERIC SEED MIXTURE or SESC MANUAL SEED MIXTURE  
 - 25-30% KENTUCKY BLUE GRASS  
 - 80% GERMINATION  
 - 30-35% RED FESCUE 90% GERMINATION  
 - 30-40% PERENNIAL RYE GRASS MIXTURES  
 - 85% GERMINATION



LOAM & SEED DETAIL  
N.T.S.

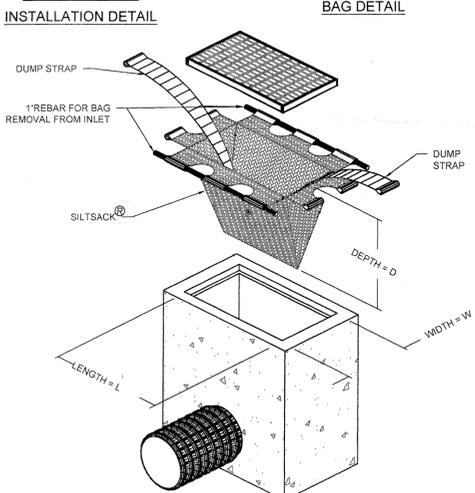
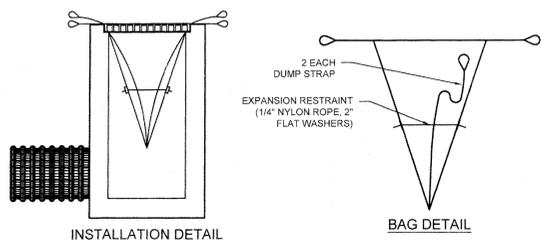
NOTE:  
 1. AT 'D' LESS THAN 3 FEET IS EQUAL TO 1/2' D'. 6" INCHES MINIMUM. AT 'D' OVER 3 FEET WIDTH IS EQUAL TO 18"



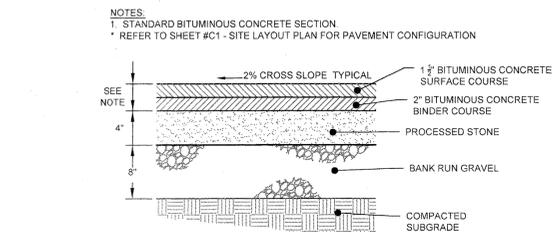
SHRUB PLANTING DETAIL  
N.T.S.



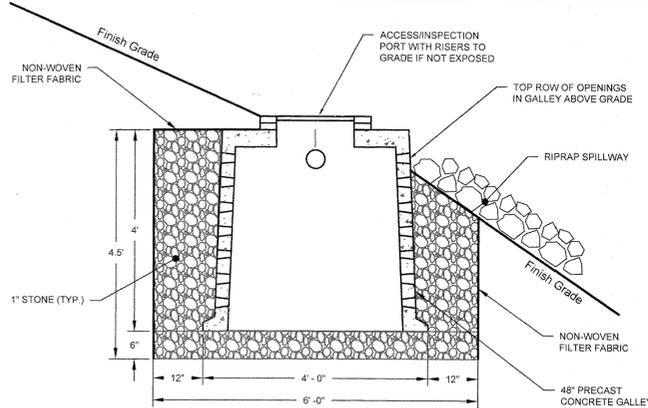
EROSION BLANKET & REINFORCEMENT  
MAT SLOPE INSTALLATION  
N.T.S.



SILTSACK INLET CONTROL DEVICE  
N.T.S.

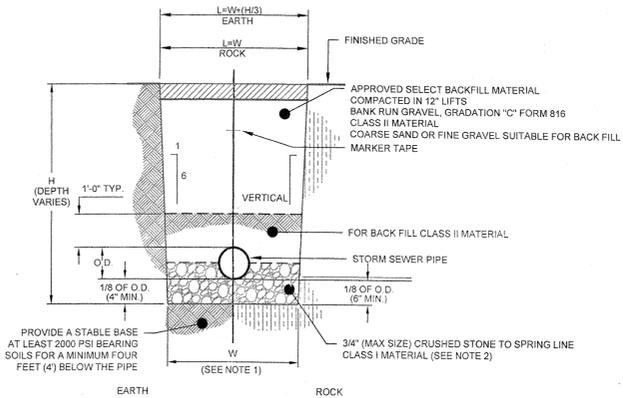


TYPICAL BITUMINOUS CONCRETE PAVEMENT DETAIL  
N.T.S.

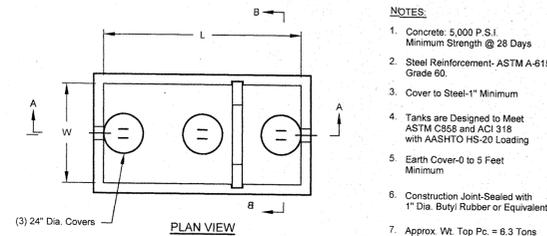


48" CONCRETE GALLERY  
INFILTRATOR/LEVEL SPREADER DETAIL  
N.T.S.

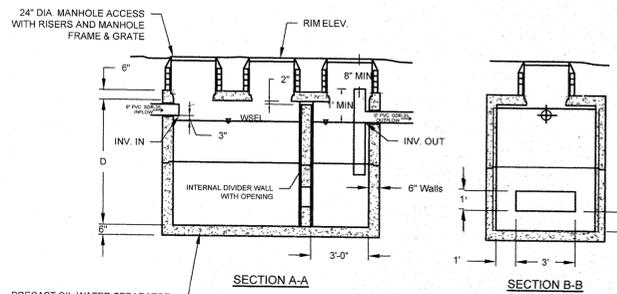
NOTES:  
 1. FOR UNSHEETED TRENCH WHERE PIPE O.D. IS 6" OR LESS THAN, PAYMENT WIDTH (W) = 2'-6". WHERE PIPE O.D. IS GREATER THAN 6" BUT LESS THAN OR EQUAL TO 36" THEN, W = O.D. + 2'-0". WHERE PIPE O.D. IS GREATER THAN 36" THEN, W = O.D. + 3'-0".  
 2. IF SUITABLE GRANULAR PIPE BEDDING MATERIAL IS AVAILABLE FROM ON SITE EXCAVATIONS, IT SHALL BE UTILIZED PROVIDED IT CONFORMS WITH THE "STANDARD SPECIFICATIONS", AND IS APPROVED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THIS MATERIAL.  
 3. TYPICAL FOR PIPE MATERIALS SPECIFIED, AS CAST IRON (C.I.), CONCRETE PIPE, DUCTILE IRON PIPE OR STEEL PIPE.  
 4. SHEETING OR SHORING OF TRENCH WALLS, WHERE UNSUITABLE CONDITIONS EXIST, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.  
 5. FOR ROCK REMOVAL DEPTHS (H) GREATER THAN 10', INCREASE PAYMENT WIDTH (W) BY 6". REMOVAL DEPTH SHALL BE MEASURED FROM THE TOP OF EXPOSED SURFACE.



STORM CLASS 'C' TRENCH DETAIL  
N.T.S.



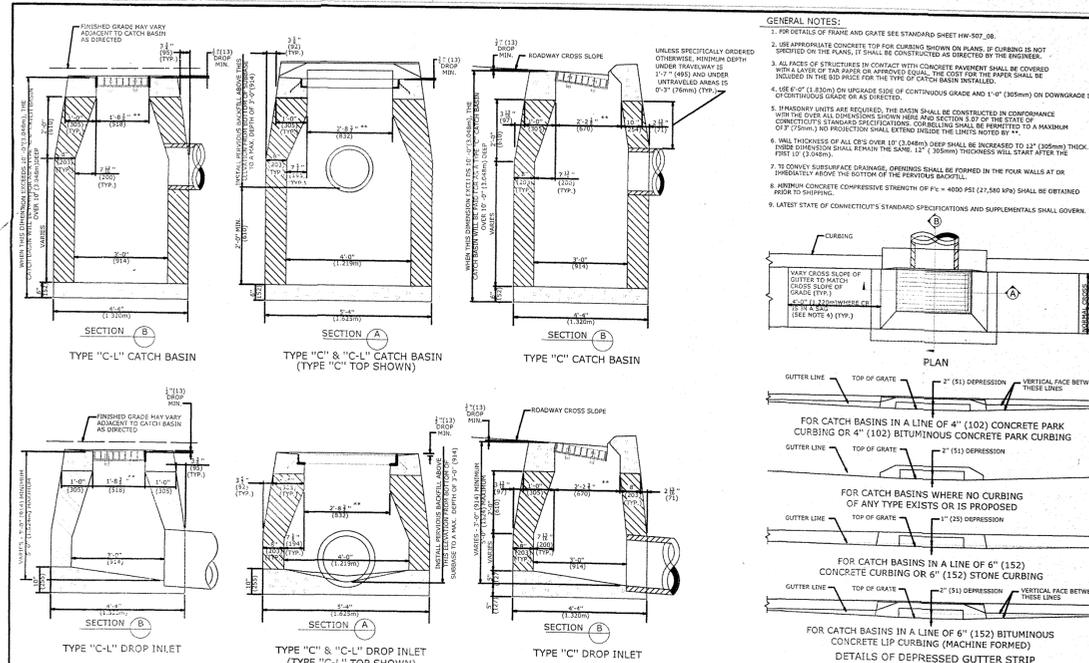
NOTES:  
 1. Concrete: 5,000 P.S.I. Minimum Strength @ 28 Days  
 2. Steel Reinforcement- ASTM A-615, Grade 60.  
 3. Cover to Steel-1" Minimum  
 4. Tanks are Designed to Meet ASTM C858 and ACI 318 with AASHTO HS-20 Loading  
 5. Earth Cover-0 to 5 Feet Minimum  
 6. Construction Joint-Sealed with 1" Dia. Butyl Rubber or Equivalent  
 7. Approx. Wt. Top Pc. = 6.3 Tons  
 Approx. Wt. Bottom Pc. = 8.3 Tons



	LENGTH	WIDTH	DEPTH	PIPE SIZE	INV. IN	INV. OUT	RIM
Oil Water Separator #1	4000 GAL	14'-0"	8'-0"	7'-6"	8"	8'-168.48	8'-168.21

Detail based on oilwater separators by Old Castle Precast in Avon CT.

OIL/WATER SEPARATOR  
N.T.S.



TYPE 'C' & 'C-L' CATCH BASIN  
TYPE 'C' DROP INLET  
TYPE 'C-L' DROP INLET  
TYPE 'C-L' TOP SHOWN

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 engineering, surveying, planning.

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**DATTCO**

131 Tuttle Road  
 Middletown, Connecticut

PREPARED FOR:  
**DATTCO, INC.**

Sheet Description:  
**DETAILS**

Scale:  
 N.T.S.

Date: February 25, 2020

Project #: 0993 F.B. #: ---

Drawn By: BTP Approved By: BNB

Revisions:

Date:	Descriptions:
June 24, 2020	Revise Building Sizes
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Sheet #:  
**D1**