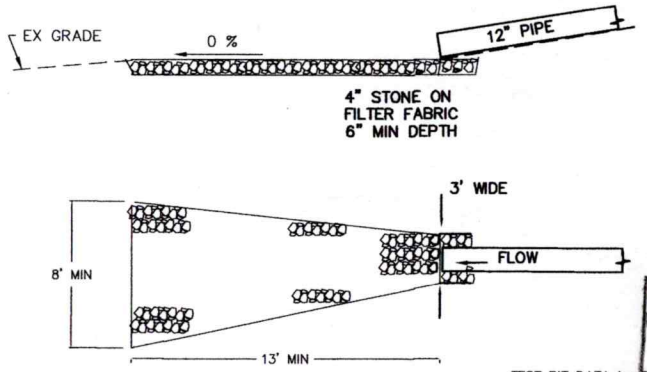


PLAN
NTS

LEVEL SPREADER
NTS

EROSION AND SEDIMENTATION CONTROL NOTES

1. All sedimentation and erosion control measures shall conform to the requirements set forth in the Connecticut Department of Environmental Protection publication " Connecticut Guidelines for Soil Erosion and Sedimentation Control " dated 2002.
2. Areas disturbed for site improvments shall be kept to an absolute minimum.
3. The primary measures used to control erosion and sedimentation shall be silt fences, staked hay bales, hay mulch, jute mesh netting and turf establishment.
   a. Silt fences shall be employed on the downhill end of all exposed slopes.
   b. Hay mulch shall be applied to all exposed areas as soon as possible after exposure (1 week maximum). Mulch on slopes exceeding 5% shall be held in place with jute mesh netting.
   c. All exposed areas shall be final graded, covered with topsoil (4" minimum) and seeded as soon as possible after exposure (1 month maximum) to stabilize slopes. Turf establishment shall be accomplished as follows:
4. Seed for permanent turf establishment shall be applied to a prepared bed of topsoil (4" in depth). Fertilizer shall be 10–10–10 or equal and shall be spread at a rate of 7.5 lbs. per 1000 sf. Ground limestone shall be applied at the rate of 90 lbs. per 1000 sf. Seed shall be uniformly spread and shall be a mixture of 45% Kentucky blue grass, 45% Creeping red fescue, and 10% Perenial ryegrass applied at a rate of 5 lbs. per 1000 sf. Permanent turf establishment shall be done between the dates of April 1 and June 1 or August 15 and Sept 15.
5. If permanent turf establishment cannot be done within the time constraints listed above, the exposed areas shall be protected with a temporary vegetative cover. This shall consist of Annual ryegrass seed applied at a rate of 5 lbs. per 1000 sf to a surface prepared by the application of a 10–10–10 fertilizer (7.5 lbs. per 1000 sf) and ground limestone (90 lbs. per 1000sf). This measure shall be applicable between the dates of March 1 and June 1 or August 15 and October 15. Outside of those dates exposed areas shall be protected with hay mulch (90 lbs. per 1000 sf) anchored with jute mesh netting.
6. It shall be the responsibility of the Owner to install, inspect and maintain all soil erosion and sedimentation control devices. Inspection of all control measures shall be at least once a week during periods of dry weather, after each runoff producing storm and once a day during periods of prolonged rainfall. Repair or replacement of damaged control measures shall be done immediatly.

The person responsible for implementing this plan is:
WILLIAM GENOVESE
116 CHRISTIAN LANE
NEW BRITAIN, CT. 06051
TEL: 203–915–5083

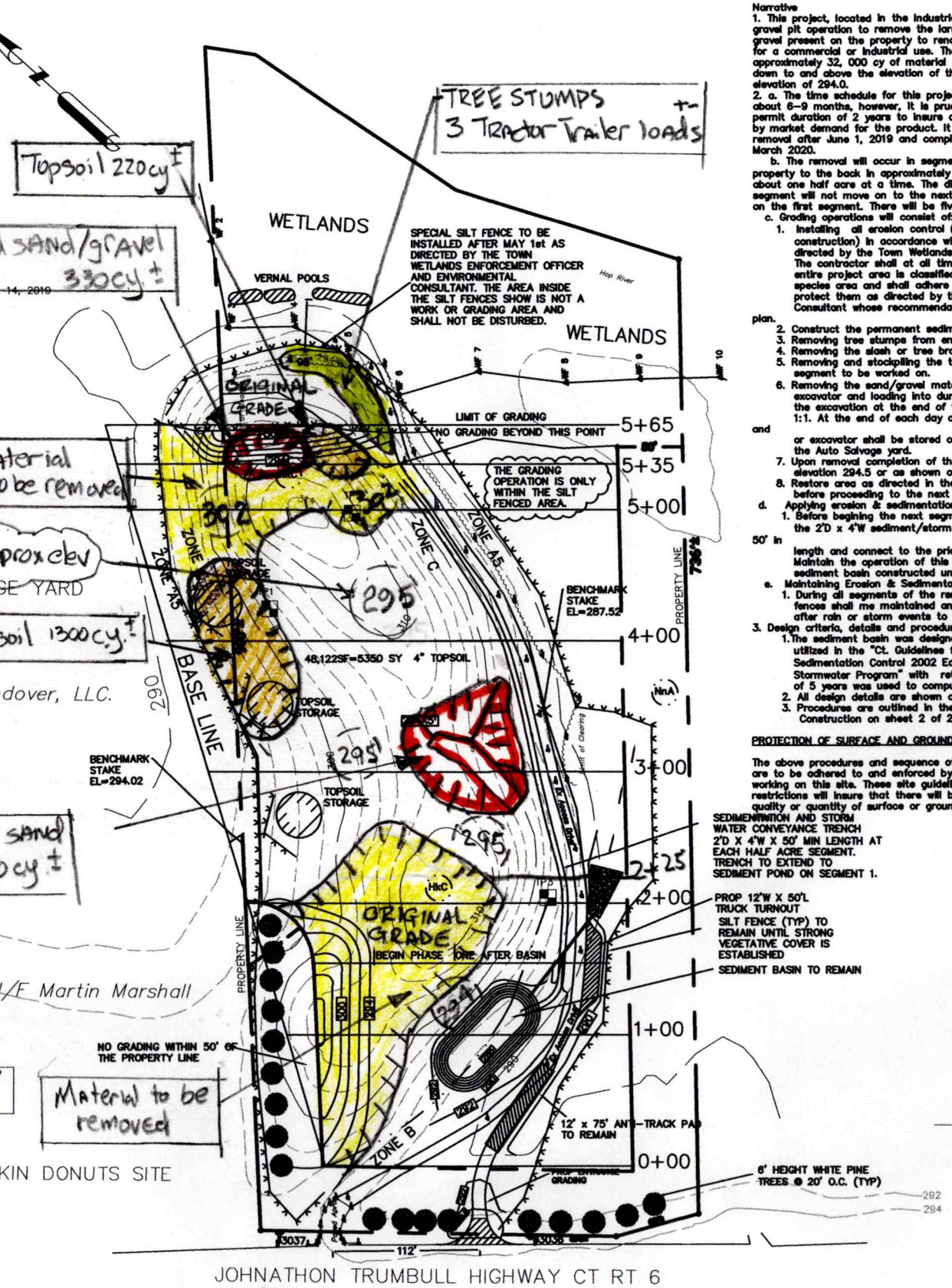
ALL EMERGENCY NUMBERS TO BE PROVIDED TO THE TOWN

TEST PIT DATA ~~by G.G. Bell, P.E. March 14, 2018~~

TP 1
0 – 4" Topsoil roots to 36"
4 – 24" Fine sandy loam loose dry
24 – 9' Fine medium sand dry
No Ledge, No Water, No Mottling

TP 2
0 – 8" Topsoil roots to 36"
4 – 36" Fine sandy loam loose dry
36 – 9' Fine medium sand loose dry
@ 9' sand and gravel
No Ledge, No Water, No Mottling

TP 3
0 – 4" Topsoil roots to 36"
4 – 24" Fine sandy loam loose dry
24 – 9' Fine medium sand dry
No Ledge, No Water, No Mottling



INV 24"RCP =290.71

EROSION CONTROL & RESTORATION PLAN
SCALE 1" = 50'

APPROVED BY THE ANDOVER PLANNING AND ZONING COMMISSION

FINAL APPROVAL _____
CHAIRMAN/SECRETARY

DATE _____

EXPIRATION DATE: _____

Narrative

1. This project, located in the Industrial Zone, is to develop a gravel pit operation to remove the large hills of sand and gravel present on the property to render the site more practical for a commercial or industrial use. The goal here is to remove approximately 32, 000 cy of material and the bring the grade down to and above the elevation of the 100 year floodplain elevation of 294.0.
2. a. The time schedule for this project is anticipated to be about 6–9 months, however, it is prudent to request a total permit duration of 2 years to insure any delays caused mostly by market demand for the product. It is anticipated to begin removal after June 1, 2019 and complete the operation by March 2020.

   b. The removal will occur in segments from the front of the property to the back in approximately 100' depth segments or about one half acre at a time. The disturbed area for the first segment will not move on to the next until restoration is done on the first segment. There will be five segments.

   c. Grading operations will consist of:
      1. Installing all erosion control (see sequence of construction) in accordance with the site plan and as directed by the Town Wetlands Enforcement Officer. The contractor shall at all times be aware that the entire project area is classified as an endangered species area and shall adhere to all directives to protect them as directed by the Environmental Consultant whose recommendations are part of this plan.
      2. Construct the permanent sediment basin.
      3. Removing tree stumps from entire project.
      4. Removing the slash or tree branch remains.
      5. Removing and stockpiling the topsoil & loam from the segment to be worked on.
      6. Removing the sand/gravel material with a loader or excavator and loading into dump trucks. The slope of the excavation at the end of the day shall not exceed 1:1. At the end of each day of operation the loader and excavator shall be stored on the pavement area of the Auto Salvage yard.
      7. Upon removal completion of the segment, grade area to elevation 294.5 or as shown on the site plan.
      8. Restore area as directed in the restoration plan before proceeding to the next segment.

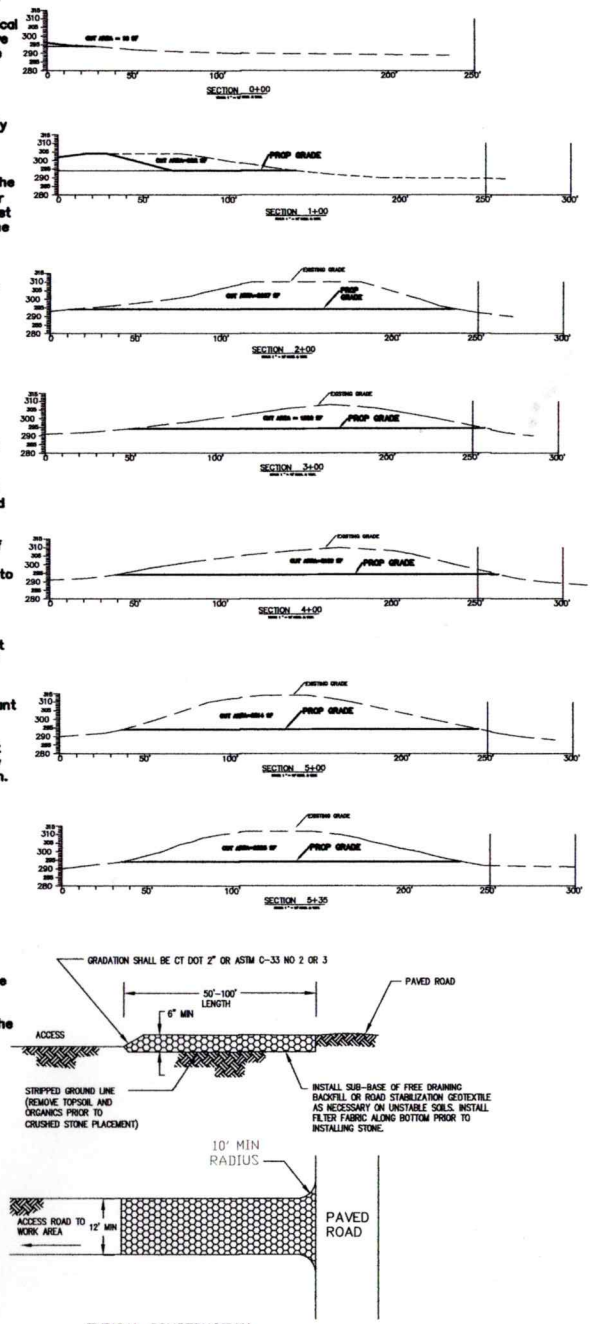
   d. Applying erosion & sedimentation control
      1. Before beginning the next segment operation, construct the 2'D x 4'W sediment/storm channel a minimum of 50' in length and connect to the prior constructed channel. Maintain the operation of this channel to the permenant sediment basin constructed under Segment #1.

   e. Maintaining Erosion & Sedimentation controls
      1. During all segments of the removal operation, the silt fences shall me maintained and inspected immediately after rain or storm events to insure adequate function.

3. Design criteria, details and procedures
   1. The sediment basin was designed using the method utilized in the "Ct. Guidelines for Soil Erosion and Sedimentation Control 2002 Edition". "HyroCad Stormwater Program" with return storm frequency of 5 years was used to compute runoff volumes.
   2. All design details are shown on sheet 2 of 2.
   3. Procedures are outlined in the Sequence of Construction on sheet 2 of 2.

PROTECTION OF SURFACE AND GROUNDWATER

The above procedures and sequence of construction outlined are to be adhered to and enforced by the applicant and those working on this site. These site guidelines, procedures and restrictions will insure that there will be no threat to the quality or quantity of surface or groundwater in and around the



TYPICAL CONSTRUCTION ENTRANCE
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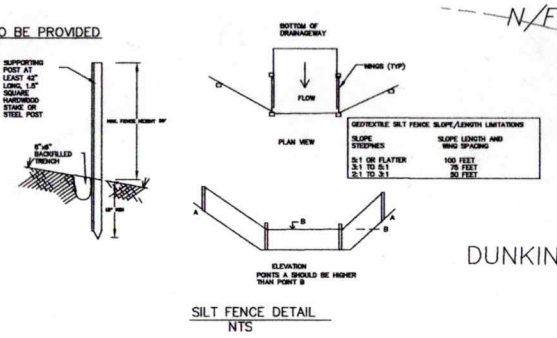

SILT FENCE DETAIL
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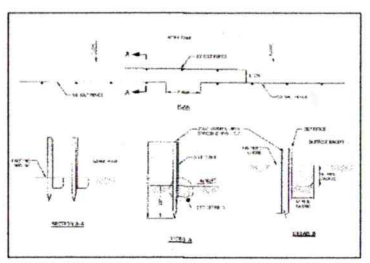

SYNCOPATED SILT FENCE DETAIL
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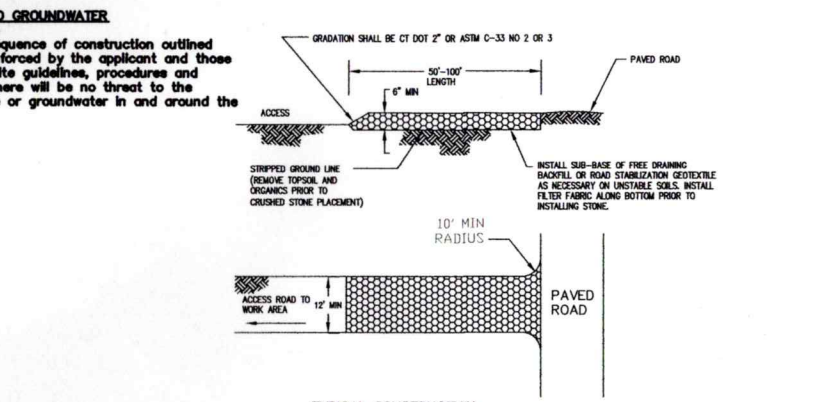
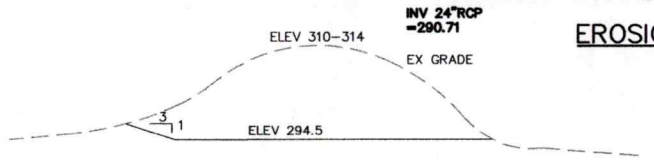


TEMPORARY SEDIMENTATION BASIN
NTS



TYPICAL CUT SECTION
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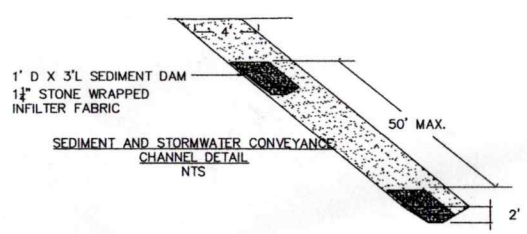

SEDIMENT AND STORMWATER CONVEYANCE CHANNEL DETAIL
NTS

Rev 5-10-21 Field survey
REVISED 4-22-2021 MODED BENCHMARKS
REVISED 6-5-2019 TOWN COMMENTS
REVISED 5-15-2019 TOWN COMMENTS
REVISED 5-7-2019 TOWN COMMENTS
REVISED 5-3-2019 TOWN COMMENTS
REVISED 5-6-2019 ADDED CROSS SECTIONS & TOPSOIL STORAGE

NOT VALID UNLESS EMBOSSED SEAL

PE NO. 11670

CHRISTOPHER G. BELL P.E. - CONSULTING ENGINEERS
1 Doane Road
Higganum, Ct. 06441
860-345-7357

DRAWN BY: C.G. BELL
DESIGNED BY: C.G. BELL
DATE: FEB. 14, 2019
JOB NO: 1812

S-2
SHEET 2 OF 3

SITE PLAN & DETAILS
PROPOSED GRAVEL PIT
MAP 33 BLK 36 LOT 23
JOHNATHON TRUMBULL HIGHWAY RT 6
ANDOVER, CT

GRAVEL PIT PERMIT EXTENSION 5-11-21