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**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT: CARLOS DOMINQUES II
PROJECT NO.: 2015-29
PROJECT LOCATION: SECTION 7, BLOCK 1, LOT 1.5
REVIEW DATE: 30 JUNE 2017
MEETING DATE: 6 JULY 2017
PROJECT REPRESENTATIVE: TALCOTT ENGINEERING

1. Private road access maintenance and drainage agreements must be modified. Submission of these documents to Mike Donnelly's office for review is required.
2. NYSDEC Notice of Intent for coverage under the SPDES has been submitted. A condition of approval should be received called Sub Permit.
3. All of our previous comments have been addressed by the Applicant's representative.

Respectfully submitted,

***McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.***

Patrick J. Hines
Principal

PJH/kbw

Talcott Engineering

DESIGN, PLLC

1 GARDNERTOWN ROAD ~ NEWBURGH, NY 12550
(845) 569-8400* ~ (fax) (845) 569-4583

Town of Newburgh
Planning Board
308 Gardnertown Road
Newburgh, NY 12550

June 9, 2017

Attn: John Ewasutyn, Chairman

Re: Resubmission letter
Town Project No. 2015-29
Carlos Domingues II Subdivision
Domingues Road
SBL: 7-1-1.5
AR Zone
Job No. 15082-CDS

Dear John,

The following is our;

Response to Town of Newburgh Planning Board Review Comments review dated 5/12/2017

- 1) Dan Bloom is working on the private road and drainage maintenance agreement.
- 2) The pond, as originally designed and constructed, was sized for this subdivision. Impervious areas for this and previous subdivisions are less than 1.45 acre total impervious areas used by the prior engineer for drainage design (0.79 acre pervious and 0.51 acre on current subdivision plan equals 1.30 total impervious).
- 3) Requested note has been added.
- 4) Driveway culverts are 15" as noted on the legend.
- 5) Total disturbance is 2.01 acre. Plans are revised in accordance with DEC SWPPP regulations and an NOI has been completed.
- 6) (No response required).

Attached please find 12 sets of prints to the Planning board. I will FedEx 1 copy of plans to Michael Donnelly and deliver 1 copy of plans and the DEC NOI to Pat Hines for the July 6th Public Hearing.

Respectfully yours,



Charles T. Brown, P.E. -- President
Talcott Engineering

Pc: Carlos Domingues, Client
Michael Donnelly
Pat Hines

EROSION AND SEDIMENT CONTROL PLAN FOR SMALL HOMESITE CONSTRUCTION

Definition

Small homesite erosion and sediment control plans are a group of minimum erosion and sediment control practices and management techniques that apply to small homesite construction activity on a single residential lot, in order to prevent polluted discharge.

Purpose

This appendix lays out a series of minimum requirements for erosion and sediment control, and management practices that may be used to meet these requirements. Use of these templates will help show compliance with the general requirements for construction activities that require basic stormwater pollution prevention plans (SWPPP). This applies to the construction of small homesites. The owner/developer must complete the relevant conditions (1-4), or small parcel erosion and sediment control plan included in this section, and submit the NOI in order to meet compliance with the SPDES General Permit for Stormwater Discharges From Construction Activities.

Criteria

Generally, several types of practices are required on any one site for effective erosion and sediment control. There are three broad categories of construction-related practices for controlling erosion and sediment on small homesite developments:

1. **Cover practices** prevent erosion by protecting the soil surface from rainfall and runoff. Prevention of erosion is the most preferable and cost-effective approach. These practices include: protection of existing vegetation; temporary covering of exposed soil by mulching, matting, or covering; and permanent site stabilization by topsoiling, seeding, and/or sodding.
2. **Structural Practices** are structural controls that either reduce erosion, control runoff, or keep sediment on the construction site. Examples of these practices include stabilized construction entrances, silt fences, sediment traps, berms, and check dams.
3. **Management Measures** are construction management methods that prevent or reduce erosion potential and ensure the proper functioning of erosion and sediment control practices. Careful construction management can dramatically reduce the costs associated with erosion and sediment problems. Examples of these management measures include:
 - Preserving existing trees and grass where possible

to prevent erosion;

- Decompacting and re-vegetating the site as soon as possible;
- Locating soil piles away from roads or waterways;
- Limiting tracking of mud onto streets by requiring all vehicles to use designated access drives;
- Removing sediment carried off-site by vehicles or storms;
- Installing downspout extenders to prevent erosion from roof runoff; and
- Maintaining erosion and sediment practices through sediment removal, structure replacement, etc.

Specifications

Each construction site is different. The owner/developer of a small construction site may choose and follow one of the four variations of ESC plans included in this section to develop a SWPPP in compliance with the SPDES Construction Permit For Stormwater Discharges From Construction Activities. However, because of the general nature of the following conditions, **the plans included in this section may not cover all of the resource protection needs on a particular site, and this form does not exempt an owner from the responsibility of filing an NOI, if required.**

Small Homesite Minimum Requirements:

1. Stabilized Construction Entrance:

To prevent vehicles and equipment from tracking sediment and mud off-site, apply gravel or crushed rock to the driveway area and restrict traffic to this one route. This practice will help keep soil from sticking to tires and stop soil from washing off into the street. Carry out periodic inspections and maintenance including washing, top-dressing with additional stone, reworking, and compaction. Plan for periodic street cleaning to remove any sediment that may have been tracked off-site. Remove sediment by shoveling or sweeping and transport to a suitable disposal area where it can be stabilized.

2. Stabilization of Denuded Areas:

In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that directly discharge to one of the 303 (d) segments listed in the Construction General Permit or is

located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased.

Stabilize disturbed areas by implementing soil covering practices (e.g. mulching, matting, sodding). Exposed soils are the most prone to erosion from rainfall and runoff. Vegetation helps protect the soil from these forces and provides natural erosion control. Plan construction to limit the amount of exposed area, and avoid grading activities during the rainy season (November through March) as much as possible. Clearing limits should be clearly marked and kept as small as possible. Once construction is completed, the site must be permanently stabilized with topsoiling, seeding and plantings, or sodding if needed.

3. Protection of Adjacent Properties:

Keep sediment on-site by using structural and source control practices (e.g. vegetative buffer strips, sediment barriers, soil berms or dikes, etc). See Sections 3, 4, or 5 as appropriate. Wherever possible, preserve a buffer of existing vegetation around the site boundary. This will help to decrease runoff velocities and trap sediment suspended in the runoff. Other structural controls such as filter fence or straw bale barriers should also be used to filter runoff and trap sediment on-site.

When excavating basement soils, move the soil to a location that is, or will be, vegetated, such as in the backyard or side yard area. This will increase the distance eroded soil must travel, through vegetation, to reach the storm sewer system. Piles should be situated so that sediment does not run into the street or adjoining yards. Soil piles should be temporarily seeded and circled with silt fence until the soil is either replaced or removed. Backfill basement walls as soon as possible and rough grade the lot. This will eliminate the large soil mounds, which are highly erodible, and prepare the lot for temporary cover. After backfilling, grade or remove excess soil from the site quickly, to eliminate any sediment loss from surplus fill.

4. Concentrated Flow:

For constructed drainage ways, or other areas of concentrated flow, install check dams according to the specifications on page E.12 to reduce erosion in the channel. As with other erosion controls, check dams must be inspected regularly. Remove sediment accumulated behind the dam as needed to allow channel to drain through the stone check dam and prevent large flows from carrying sediment over the dam. Replace stones as needed to maintain the design cross section of the structures. Sediment removal is crucial to the effectiveness of the

dam—if not maintained, high flows could cause erosion around the sides of the structures, adding significant sediment loads downstream.

5. Maintenance:

Maintain erosion and sediment control practices through regular inspection. Regular maintenance is extremely important for the proper operation of structural practices. After initial groundbreaking, the responsible contractor shall conduct daily maintenance inspections within the active work area to ensure practices are being maintained in effective operating conditions at all times.

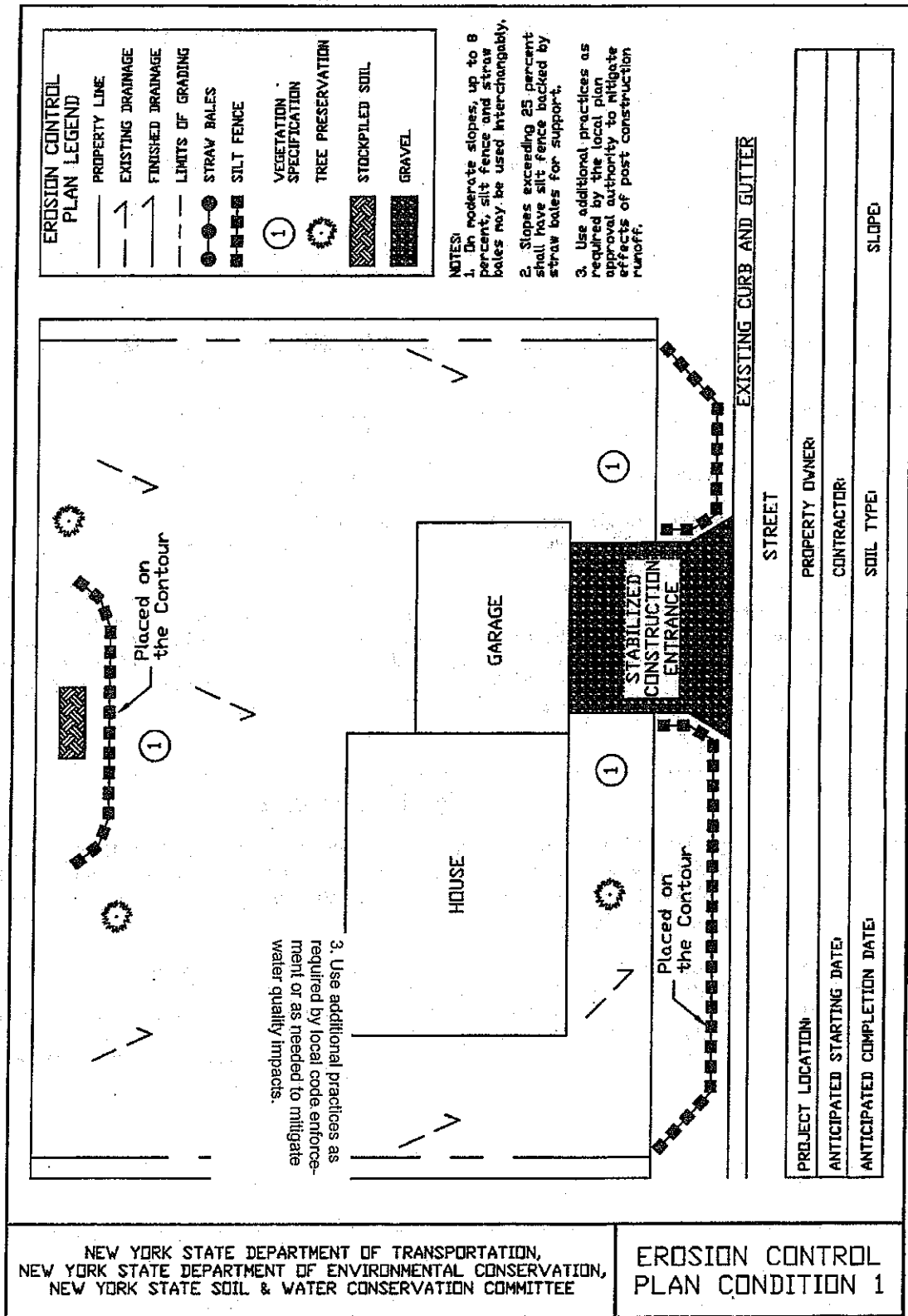
6. Soil Restoration:

Soils that have been disturbed and compacted due to construction activities should be de-compacted to restore their previous hydrologic condition. This normally involves aeration of small areas for home sites. Large areas should be restored in accordance with the Soil Restoration standard in Section 4 of this book of standards.

7. Other Practices:

Use additional practices as required by the local plan approval authority to mitigate effects of increased runoff. This may include providing additional controls to a locally protected stream or resource area, protecting riparian corridors (vegetative stream buffers), etc. Individual homeowners and/or developers are responsible for researching additional requirements related to erosion and sediment runoff control established by their local jurisdictions.

**Figure B.1
Erosion Control Plan Condition 1**



Condition 1—Vegetative Requirements & Compliance Form

Vegetation Requirements:

1) Site Preparation

- A. Install needed water and erosion control measures and bring area to be seeded to desired grades using a minimum of 4 in. topsoil.
- B. Prepare seedbed by loosening soil to a depth of 4-6 inches.
- C. Lime to a pH of 6.5
- D. Fertilize as per soil test or, if fertilizer must be applied before soil test results are received, apply 850 pounds of 5-10-10 or equivalent per acre (20 lbs/1,000 sq. ft.)
- E. Incorporate lime and fertilizer in top 2-4 inches of topsoil.
- F. Smooth. Remove all stones over 1 inch in diameter, sticks, and foreign matter from the surface. Firm the seedbed.

2) Planting—Sunny Location.

Upon completing soil de-compaction, use a cultipacker type seeder if possible. Seed to a depth of 1/8 to 1/4 inch. If seed is to be broadcast, cultipack or roll after seeding. If hydroseeded, lime and fertilizer may be applied through the seeder and rolling is not practical. Seed using the following mix and rates:

| Species (% by weight) | lbs/1,000sq. ft | lbs./acre |
|---|-----------------|-----------|
| 65% Kentucky bluegrass blend..... | 2.0-2.6..... | 85-114 |
| 20% perennial ryegrass..... | 0.6-0.8..... | 26-35 |
| 15% fine fescue..... | 0.4-0.6..... | 19-26 |
| Total..... | 3.0-4.0..... | 130-175 |
| or, | | |
| 100% Tall fescue, Turf-type, fine leaf..... | 3.4-4.6..... | 150-200 |

- 3) When using the cultipacker or broadcast seed method, mulch using small grain straw, applied at a rate of 2 tons per acre; and anchor with a netting or tackifier. Hydroseed applications should include mulch, fertilizer and seed.

Common white clover can be added to mixtures at the rate of 1-2 lbs/acre to help maintain green color during the dry summer period, however, they will not withstand heavy traffic. Fertilizing—First year, (spring seedlings) three to four weeks after germination apply 1 pound nitrogen/1,000 square feet using a complete fertilizer with a 2-1-1 or 4-1-3 ratio or as recommended by soil test results. For summer and early fall seedings, apply as above unless air temperatures are above 85°F for extended period. Wait until heat wave is over to fertilize. For late fall/ winter seedings, fertilize in spring. Restrict use—new seedlings should be protected from use for one full year to allow development of a dense sod with good root structure.

Certification Statement

Please complete and sign this 2-sided document (with Typical Erosion Control Plan) and attach to BLUEPRINTS and SITE PLAN prior to any earth disturbance. These documents must be kept on site and be available for review as requested by any agent of the NYSDEC. **This 2-sided form can be used as a basic stormwater pollution prevention plan, but will not exempt a landowner from filing a Notice of Intent.**

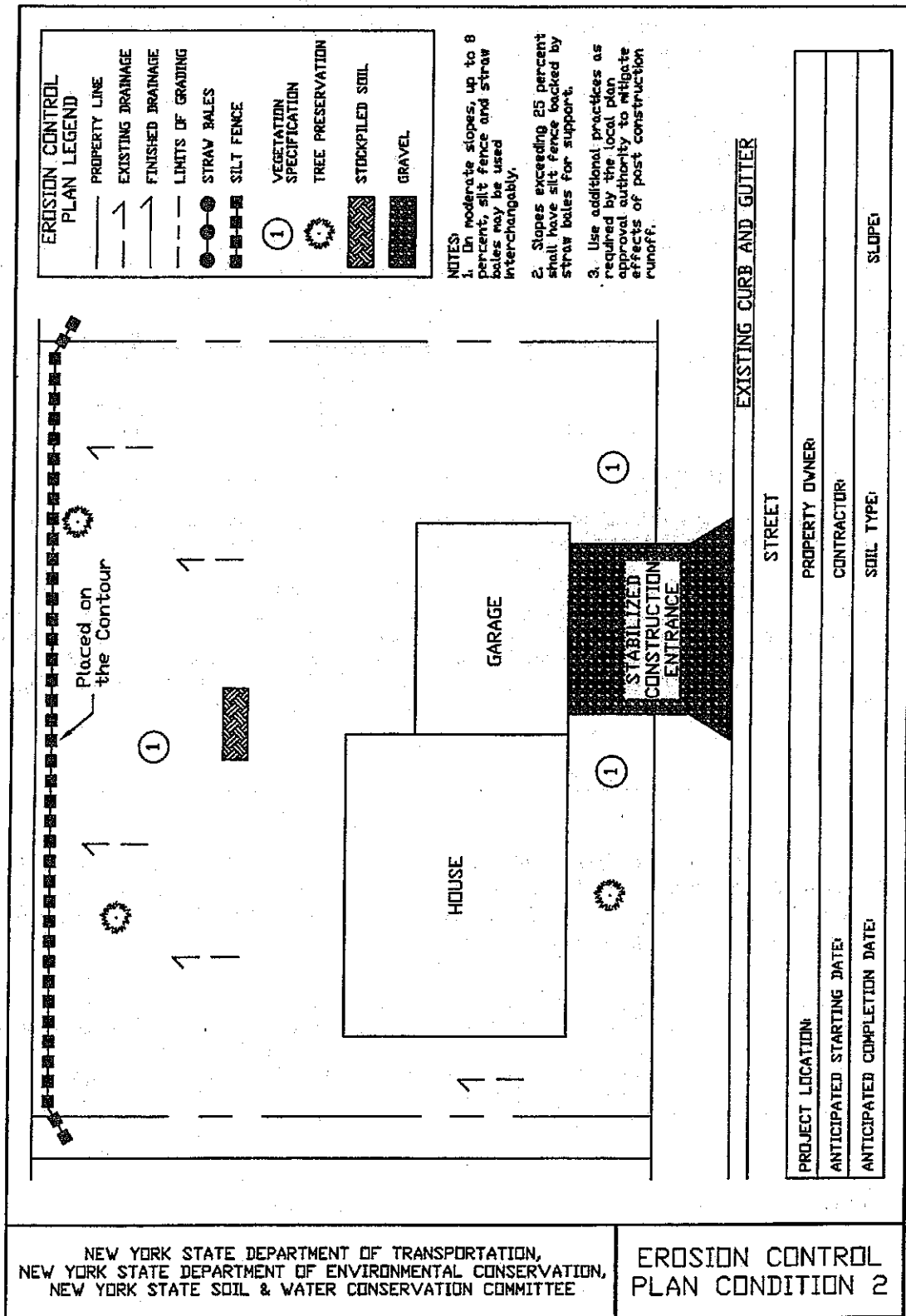
"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspectors during a site inspection. I also understand that the owner or operator must comply with the term and conditions of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) general permit for stormwater discharges from construction activities and that is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for know violations."

Builder/Contractor (print)

Signature

Address

Figure D.2
Erosion Control Plan Condition 2



Condition 2—Vegetative Requirements & Compliance Form

Vegetation Requirements:

1) Site Preparation

- A. Install needed water and erosion control measures and bring area to be seeded to desired grades using a minimum of 4 in. topsoil.
- B. Prepare seedbed by loosening soil to a depth of 4-6 inches.
- C. Lime to a pH of 6.5
- D. Fertilize as per soil test or, if fertilizer must be applied before soil test results are received, apply 850 pounds of 5-10-10 or equivalent per acre (20 lbs/1,000 sq. ft.)
- E. Incorporate lime and fertilizer in top 2-4 inches of topsoil.
- F. Smooth. Remove all stones over 1 inch in diameter, sticks, and foreign matter from the surface. Firm the seedbed.

2) Planting—Sunny Location.

Upon completing soil de-compaction, use a cultipacker type seeder if possible. Seed to a depth of 1/8 to 1/4 inch. If seed is to be broadcast, cultipack or roll after seeding. If hydroseeded, lime and fertilizer may be applied through the seeder and rolling is not practical. Seed using the following mix and rates:

| <u>Species (% by weight)</u> | <u>lbs/1,000sq. ft</u> | <u>lbs./acre</u> |
|---|------------------------|------------------|
| 65% Kentucky bluegrass blend..... | 2.0-2.6..... | 85-114 |
| 20% perennial ryegrass..... | 0.6-0.8..... | 26-35 |
| 15% fine fescue..... | 0.4-0.6..... | 19-26 |
| Total..... | 3.0-4.0..... | 130-175 |
| or, | | |
| 100% Tall fescue, Turf-type, fine leaf..... | 3.4-4.6..... | 150-200 |

- 3) When using the cultipacker or broadcast seed method, mulch using small grain straw, applied at a rate of 2 tons per acre; and anchor with a netting or tackifier. Hydroseed applications should include mulch, fertilizer and seed.

Common white clover can be added to mixtures at the rate of 1-2 lbs/acre to help maintain green color during the dry summer period, however, they will not withstand heavy traffic. Fertilizing—First year, (spring seedlings) three to four weeks after germination apply 1 pound nitrogen/1,000 square feet using a complete fertilizer with a 2-1-1 or 4-1-3 ratio or as recommended by soil test results. For summer and early fall seedings, apply as above unless air temperatures are above 85°F for extended period. Wait until heat wave is over to fertilize. For late fall/ winter seedings, fertilize in spring. Restrict use—new seedlings should be protected from use for one full year to allow development of a dense sod with good root structure.

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"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspectors during a site inspection. I also understand that the owner or operator must comply with the term and conditions of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) general permit for stormwater discharges from construction activities and that is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for know violations."

Builder/Contractor (print)

Signature

Address

Project Site Information

Project/Site Name

D O M I N G U E S S U B D I V I S I O N I I

Street Address (NOT P.O. BOX)

D O M I N G U E S R O A D

Side of Street

North South East West

City/Town/Village (THAT ISSUES BUILDING PERMIT)

N E W B U R G H

State Zip

N Y 1 2 5 5 0 -

County

O R A N G E

DEC Region

3

Name of Nearest Cross Street

C A N D L E S T I C K H I L L R O A D

Distance to Nearest Cross Street (Feet)

5 5 0

Project In Relation to Cross Street

North South East West

Tax Map Numbers

Section-Block-Parcel

7 - 1 - 1 . 5

Tax Map Numbers

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you must go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)

5 8 1 9 0 4

Y Coordinates (Northing)

4 6 0 3 9 2 7

2. What is the nature of this construction project?

New Construction

Redevelopment with increase in impervious area

Redevelopment with no increase in impervious area

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required
if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- Preservation of Undisturbed Areas
- Preservation of Buffers
- Reduction of Clearing and Grading
- Locating Development in Less Sensitive Areas
- Roadway Reduction
- Sidewalk Reduction
- Driveway Reduction
- Cul-de-sac Reduction
- Building Footprint Reduction
- Parking Reduction

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6 ("Soil Restoration") of the Design Manual (2010 version).

- All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

. acre-feet

29. Identify the RR techniques (Area Reduction), RR techniques (Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required (#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

| <u>RR Techniques (Area Reduction)</u> | <u>Total Contributing Area (acres)</u> | | <u>Total Contributing Impervious Area (acres)</u> | |
|---|--|----------------------|---|----------------------|
| <input type="radio"/> Conservation of Natural Areas (RR-1) ... | <input type="text"/> | <input type="text"/> | and/or | <input type="text"/> |
| <input type="radio"/> Sheetflow to Riparian Buffers/Filters Strips (RR-2) | <input type="text"/> | <input type="text"/> | and/or | <input type="text"/> |
| <input type="radio"/> Tree Planting/Tree Pit (RR-3) | <input type="text"/> | <input type="text"/> | and/or | <input type="text"/> |
| <input type="radio"/> Disconnection of Rooftop Runoff (RR-4) .. | <input type="text"/> | <input type="text"/> | and/or | <input type="text"/> |
| <u>RR Techniques (Volume Reduction)</u> | | | | |
| <input type="radio"/> Vegetated Swale (RR-5) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Rain Garden (RR-6) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Stormwater Planter (RR-7) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Rain Barrel/Cistern (RR-8) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Porous Pavement (RR-9) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Green Roof (RR-10) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <u>Standard SMPs with RRv Capacity</u> | | | | |
| <input type="radio"/> Infiltration Trench (I-1) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Infiltration Basin (I-2) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Dry Well (I-3) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Underground Infiltration System (I-4) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Bioretention (F-5) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Dry Swale (O-1) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <u>Standard SMPs</u> | | | | |
| <input type="radio"/> Micropool Extended Detention (P-1) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Wet Pond (P-2) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Wet Extended Detention (P-3) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Multiple Pond System (P-4) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Pocket Pond (P-5) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Surface Sand Filter (F-1) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Underground Sand Filter (F-2) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Perimeter Sand Filter (F-3) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Organic Filter (F-4) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Shallow Wetland (W-1) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Extended Detention Wetland (W-2) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Pond/Wetland System (W-3) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Pocket Wetland (W-4) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |
| <input type="radio"/> Wet Swale (O-2) | <input type="text"/> | <input type="text"/> | | <input type="text"/> |

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided
 . acre-feet

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a).

.

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? Yes No

If Yes, go to question 36.

If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required
 . acre-feet

CPv Provided
 . acre-feet

36a. The need to provide channel protection has been waived because:

- Site discharges directly to tidal waters or a fifth order or larger stream.
- Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development
 . CFS

Post-development
 . CFS

Total Extreme Flood Control Criteria (Qf)

Pre-Development
 . CFS

Post-development
 . CFS

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| C | A | R | L | O | S | | | | | | | | | | | | | | |
|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

MI

| |
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| |
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Print Last Name

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|
| D | O | M | I | N | G | U | E | S | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|

Owner/Operator Signature

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Date

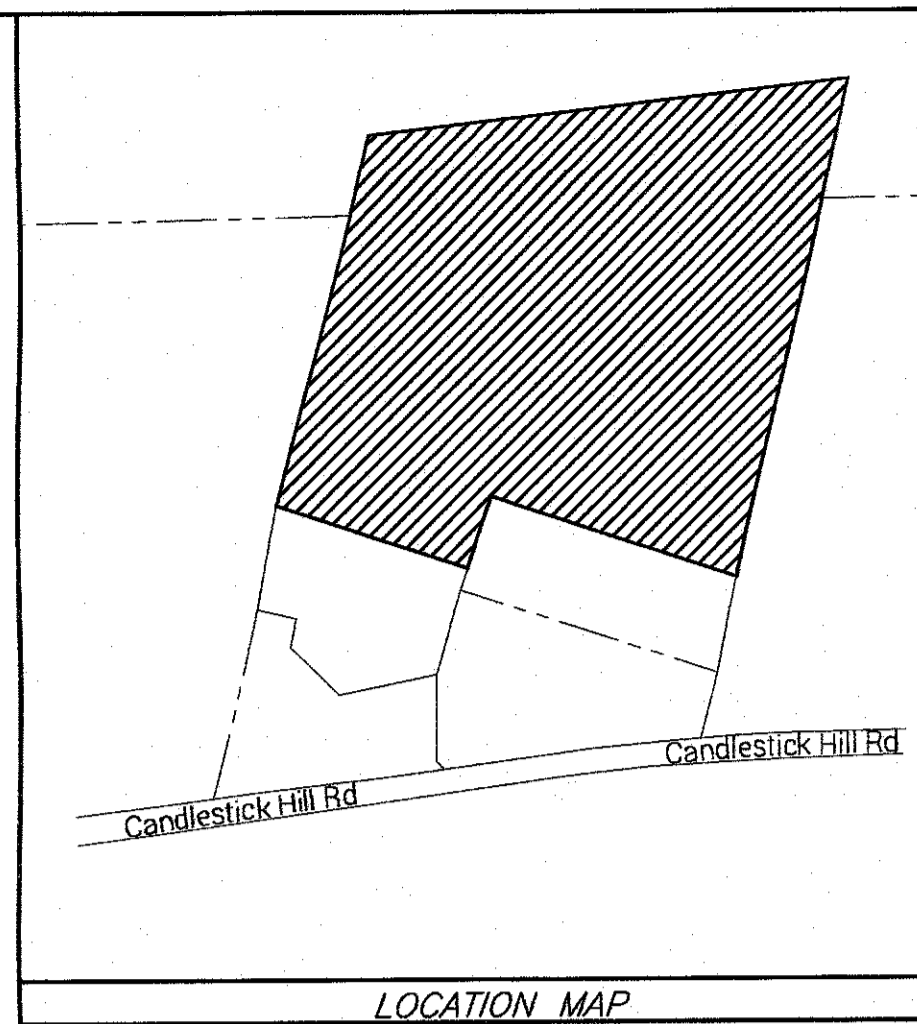
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 5 | / | 3 | 1 | / | 2 | 0 | 1 | 7 |
|---|---|---|---|---|---|---|---|---|---|

| ZONING SCHEDULE | REQUIRED | LOT #5 PROPOSED | LOT #6 PROPOSED | LOT #7 PROPOSED | LOT #8 PROPOSED | LOT #9 PROPOSED |
|----------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| ZONE: AR | | | | | | |
| MINIMUM LOT AREA | 40,000sf. | 47,476sf. | 45,520sf. | 53,566sf. | 73,487sf. | 265,554sf. |
| MINIMUM YARDS (feet) | | | | | | |
| FRONT | 50' | 50' MIN. | 50' MIN. | N/A | N/A | 50' MIN. |
| REAR | 50' | 50' MIN. | 50' MIN. | 50' MIN. | 50' MIN. | 50' MIN. |
| SIDE | | | | | | |
| ONE | 30' | 40' MIN. | 30' MIN. | 30'/50' MIN. | 30' MIN. | 30'/50' MIN. |
| BOTH | 80' | 80' MIN. | 80' MIN. | 130' MIN. | 80' MIN. | 130' MIN. |
| MINIMUM LOT DEPTH (feet) | 150' | 280'± | 227'± | 303'± | 425'± | 655'± |
| MINIMUM LOT WIDTH (feet) | 150' | 155'± | 181'± | 161'± | 187'± | 835'± |
| MAXIMUM LOT SURFACE COVERAGE (%) | 20% | 11% MAX. | 9% MAX. | 11% MAX. | 7% MAX. | 20% MAX. |
| MAXIMUM HEIGHT (feet) | 35' | 35' MAX. | 35' MAX. | 35' MAX. | 35' MAX. | 35' MAX. |
| MINIMUM BUILDING ENVELOPE | 10,000sf. | 13,578sf. | 12,326sf. | 12,033sf. | 22,157sf. | 86,533sf. |

TOTAL SITE LIMITS OF DISTURBANCE: 89,172SF / 2.05AC

LEGEND

- PROPERTY LINE EXISTING
- PROPERTY LINE PROPOSED
- EASEMENT EXISTING
- PROPERTY LINE ADJOINING
- STONEWALL
- WELL EXISTING
- BUILDING EXISTING
- WELL PROPOSED
- HOUSE PROPOSED
- DRIVEWAY
- 15' HDPE DRIVEWAY CULVERT @ 2%min.
- SETBACKS



SITE DATA
TAX MAP ID: SBL 7-1-1.5
TOTAL SIZE: 485,258sf./11.14 ACRES
DEED: L.11359, P.640
SCHOOL DISTRICT: MARLBORO
FIRE DISTRICT: MIDDLEHOPE

LOT NOTES:

- LOT SPECIFIC PLOT PLAN'S FOR EACH LOT SHALL BE SUBMITTED WITH EACH BUILDING PERMIT APPLICATIONS AND FOUNDATIONS, WELLS AND SEPTIC FIELDS SHALL BE STAKED OUT PER PLOT PLANS BY A LICENSED SURVEYOR PRIOR TO ISSUANCE OF A BUILDING PERMIT.
- A SURVEY SHALL BE PROVIDED TO THE TOWN OF NEWBURGH CODE COMPLIANCE DEPARTMENT FOR EACH LOT SHOWING THE STAKED LOCATION OF THE PROPOSED FOUNDATION, WELL AND SEPTIC FOR LOTS 5 THRU 9

AGRICULTURAL NOTES:

THIS SUBDIVISION IS LOCATED IN AN AGRICULTURALLY ZONED DISTRICT, IT DOES HAVE ACTIVE FARMING OPERATIONS IN THE VICINITY. BE ADVISED OF THE FOLLOWING:

- THAT FARMING DOES NOT OCCUR ONLY BETWEEN 8:00am AND 5:00pm AND IS DEPENDENT ON MOTHER NATURE: RESIDENTS SHOULD BE AWARE OF NOISE FROM AGRICULTURAL MACHINERY BEING OPERATED IN NEARBY FIELDS IN EARLY MORNING AND EVENING HOURS AND NOISE FROM CROP DRYING FANS WHICH ARE ON 24 HOURS A DAY DURING THE HARVESTING
- THAT THE ROADS LEADING TO AND FROM THE SUBDIVISION ARE FREQUENTLY TRAVELED BY FARMERS AND THEIR SLOW MOVING FARM VEHICLES AND EQUIPMENT.
- THAT FARM NEIGHBORS VERY OFTEN SPRAY THEIR CROPS WITH PESTICIDES IN ACCORDANCE WITH ACCEPTED PRACTICES REGULATED BY THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC NOTIFICATION No. 325, OCTOBER 1988).
- THAT EXISTING AGRICULTURAL OPERATIONS MAY CREATE BOTH UNAVOIDABLE ODORS AND UNSIGHTLINESS COMMONLY ASSOCIATED WITH FARMING OPERATIONS IN THE AREA.
- THAT THERE ARE DANGERS IN LETTING CHILDREN AND PETS ROAM INTO ANY ADJACENT FIELD, WHICH IS PRIVATE PROPERTY.

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY TO THE PARTIES OF INTEREST LISTED BELOW THAT THIS MAP SHOWS THE RESULTS OF AN ACTUAL SURVEY COMPLETED IN THE FIELD

DARREN J. STRIDIRO, PLS
SIGNATURE

RECORD OWNER'S CONSENT NOTE:

THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS PLAN, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS PLAN IN THE OFFICE OF THE CLERK OF THE COUNTY OF ORANGE, IF SO REQUIRED.

CARLOS DOMINGUES
28 LAKE ROAD
SALISBURY MILLS, NY 12577
SIGNATURE

APPLICANT

CARLOS DOMINGUES
28 LAKE ROAD
SALISBURY MILLS, NY 12577

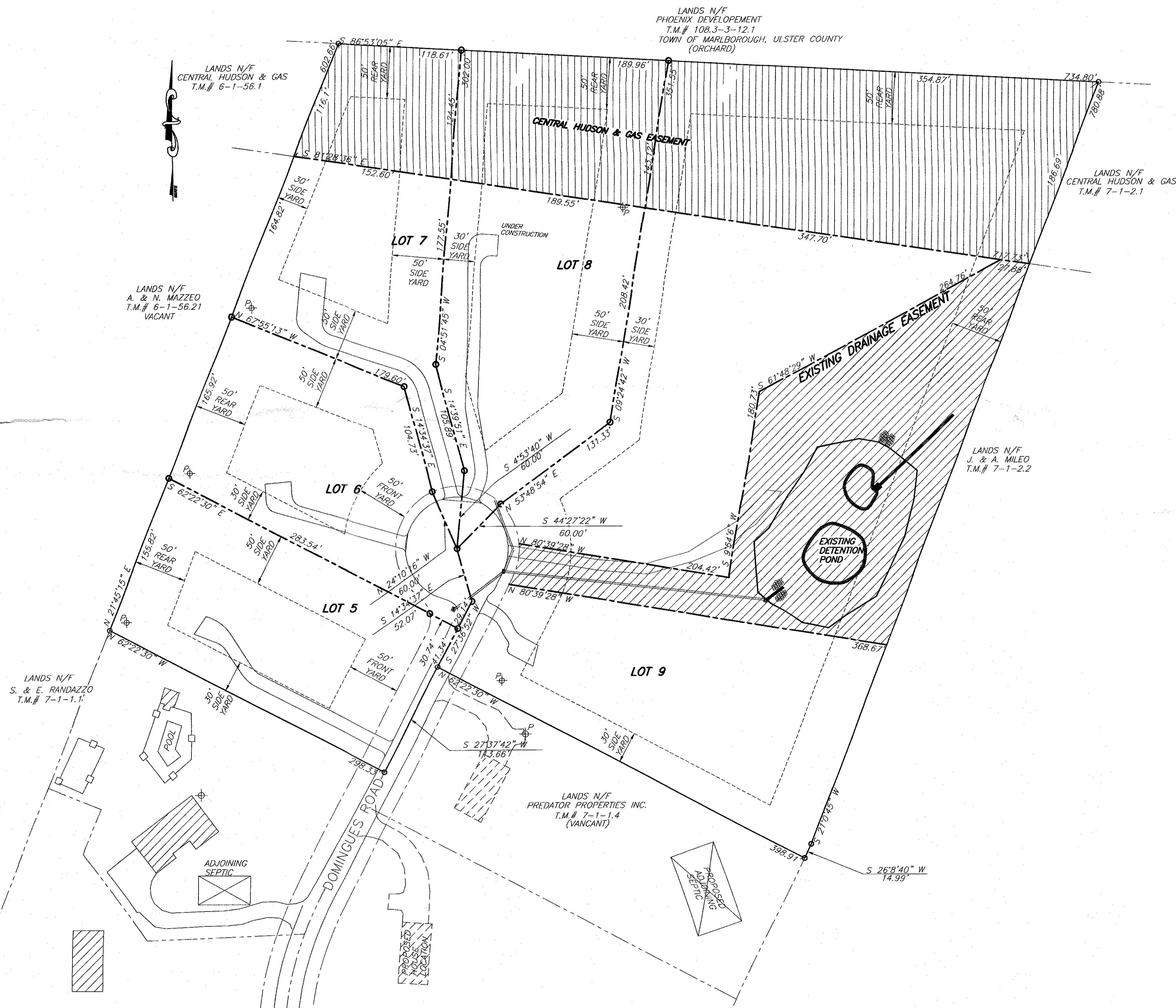
TOWN PROJECT#2015-29
THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

| | | | |
|-----------------|-----------------|---|--------------|
| SURVEYOR | ENGINEER | TALCOTT ENGINEERING DESIGN PLLC 1 GARDNERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4583 TALCOTTDESIGN2@GMAIL.COM | |
| | | SUBDIVISION PLAN | |
| | | SUBDIVISION ENTITLED "DOMINGUES II" CANDLESTICK HILL ROAD, SBL: 7-1-1.5 LOT# 5 OF FM# 594-08 TOWN OF NEWBURGH, ORANGE COUNTY, NY | |
| DATE | SCALE | JOB NUMBER | SHEET NUMBER |
| 10/27/15 | 1"=60' | 15082-CDS | 1 OF 5 |

| REVISIONS | | | |
|-----------|----------|-----|------------------------------------|
| REV. | DATE | BY | DESCRIPTION |
| 2 | 06/08/17 | RBM | REVISED PER PLANING BOARD COMMENTS |
| 1 | 05/01/17 | RBM | REVISED PER PLANING BOARD COMMENTS |

CALL BEFORE YOU DIG... IT'S THE LAW

WHETHER YOU'RE LAYING A FOUNDATION FOR A BUILDING OR PLANTING A TREE, YOU MUST FIRST CHECK FOR THE EXISTENCE OF UNDERGROUND UTILITY LINES AND CABLES. IF YOU OR YOUR CONTRACTOR DISRUPT ANY OF THESE LINES, THE RESULTS CAN BE DANGEROUS AND COSTLY-- TO EVERYONE. CALL BEFORE YOU DIG, TOLL FREE, 811



LANDS N/F
PHOENIX DEVELOPEMENT
T.M.# 108.3-3-12.1
TOWN OF MARLBOROUGH, ULSTER COUNTY
(ORCHARD)

LANDS N/F
CENTRAL HUDSON & GAS
T.M.# 6-1-56.1

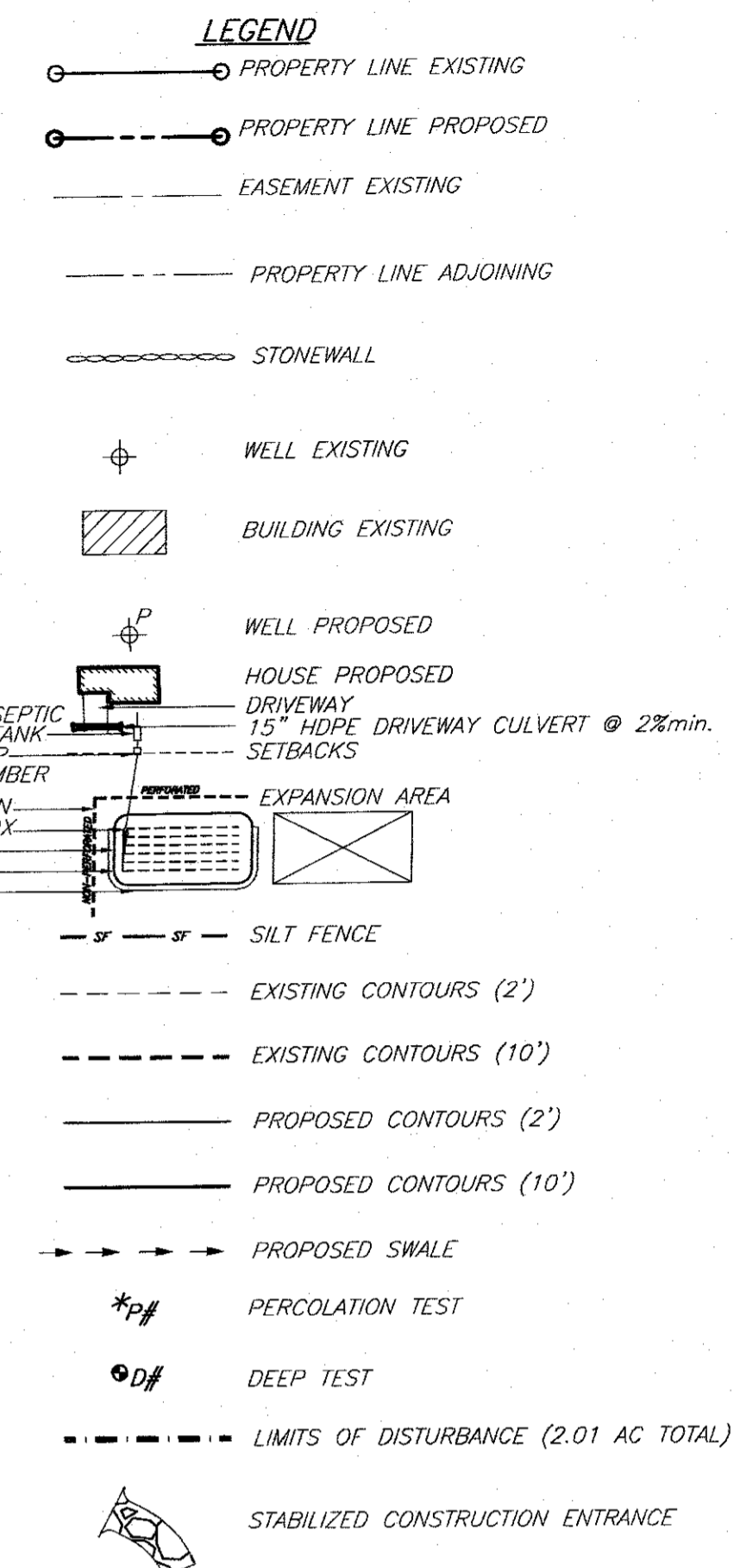
LANDS N/F
A. & N. MAZZEO
T.M.# 6-1-56.21
VACANT

LANDS N/F
CENTRAL HUDSON & GAS
T.M.# 7-1-2.1

LANDS N/F
J. & A. MILEO
T.M.# 7-1-2.2

LANDS N/F
S. & E. RANDAZZO
T.M.# 7-1-1.11

LANDS N/F
PREDATOR PROPERTIES INC.
T.M.# 7-1-1.4
(VACANT)



MAP REFERENCE

1. EXISTING TOPOGRAPHY PER A 5 SUBDIVISION FOR CARLOS DOMINGUES PREPARED BY WILLIAM E EUSTANCE PE LAST REVISED 09/26/06.
2. POND TOPOGRAPHY AND DRAINAGE ELEVATIONS PER A SURVEY PERFORMED BY JONATHAN MILLEN LS DURING 2016

OUTLET CONTROL STRUCTURE:
70"x70" CONCRETE ENCLOSURE = 615.85
24"x36" DUAL GRATES = 615.70
16"x36" RECT. INLET INV. IN = 613.74
10" DUAL CIRC. INLETS INV. IN = 609.70
12" DUAL CIRC. INLETS INV. IN = 609.72
24" HDPE INV. OUT = 608.20


CONCRETE MANHOLE = 623.87
146"x46"
124" CIRC. OPENING W/26"x26" STEEL COVER = 623.87
118" HDPE INK IN = 620.54
124" HDPE INVA OUT = 617.94

OUTLET TO FIELD:
24" HDPE INV. OUT = 618.96
21.0 LF 24" HDPE PIPE @ 17.1%

OUTLET TO FIELD:
18" HDPE INV. OUT = 606.79
98.2 LF 24" HDPE PIPE @ 1.2%

TOWN PROJECT#2015-29
THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET

| REVISIONS | | | |
|-----------|----------|-----|------------------------------------|
| REV. | DATE | BY | DESCRIPTION |
| 2 | 06/08/17 | RBM | REVISED PER PLANING BOARD COMMENTS |
| 1 | 05/01/17 | RBM | REVISED PER PLANING BOARD COMMENTS |

| | | | |
|---|--|-------------------------|------------------------|
|  | ENGINEER | | |
| | TALCOTT ENGINEERING DESIGN PLLC 1 GARDINERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4583 TALCOTTDESIGN12@GMAIL.COM | | |
| | GRADING PLAN SUBDIVISION ENTITLED "DOMINGUES II" CANDLESTICK HILL ROAD, SBL: 7-1-1.5 LOT# 5 OF FM# 594-08 TOWN OF NEWBURGH, ORANGE COUNTY, NY | | |
| DATE 6/23/15 | SCALE 1"=40' | JOB NUMBER 15082-CDS | SHEET NUMBER 2 OF 5 |

CALL BEFORE YOU DIG... IT'S THE LAW

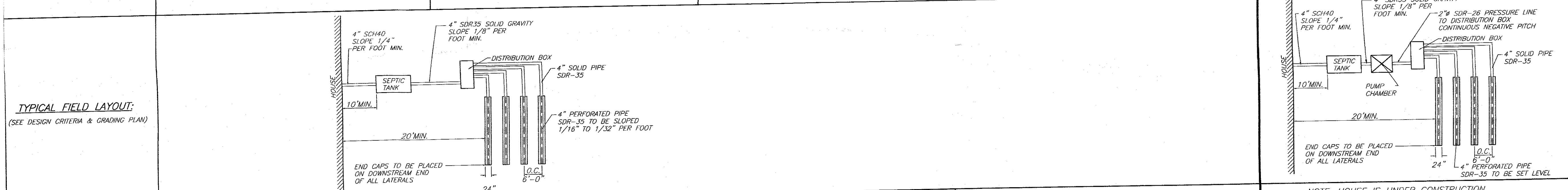
WHETHER YOU'RE LAYING A FOUNDATION FOR A BUILDING OR PLANTING A TREE, YOU MUST FIRST CHECK FOR THE EXISTENCE OF UNDERGROUND UTILITY LINES AND CABLES. IF YOU OR YOUR CONTRACTOR DISRUPT ANY OF THESE LINES, THE RESULTS CAN BE DANGEROUS - AND COSTLY - TO EVERYONE. CALL BEFORE YOU DIG, TOLL FREE, 811

TOWN CERTIFICATION:

" I HEREBY CERTIFY TO THE TOWN OF NEWBURGH THAT THE SEWAGE DISPOSAL SYSTEM DEPICTED ON THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE PUBLIC HEALTH LAW AND ALL REGULATIONS PROMULGATED THEREUNDER."

| LOT # | LOT 5 | LOT 6 | LOT 7 | LOT 9 | LOT 8 (UNDER CONSTRUCTION) |
|-------|--|---|---|---|---|
| | <p>D9 85" DEEP 06/26/15 0-10" TOPSOIL 10-85" CLAY LOAM SOME MOTTLING, WATER AT 24"</p> <p>D10 90" DEEP 06/26/15 0-8" TOPSOIL SOME MOTTLING 8-90" CLAY LOAM SOME MOTTLING, WATER AT 18"</p> <p>D5-1 84" DEEP 11/16/15 0-10" TOPSOIL 10"-84" CLAY LOAM WATER SEEPAGE @26"</p> <p>D5-2 80" DEEP 07/06/16 0-10" TOPSOIL 10"-80" CLAY LOAM NO MOTTLING, WATER OR ROCK</p> <p>D5-1 WITNESSES BY MH&E</p> | <p>D1 90" DEEP 06/26/15 0-8" TOPSOIL 8-36" CLAY LOAM 36-90" CLAY GRAVELY LOAM</p> <p>D2 78" DEEP 06/26/15 0-9" TOPSOIL 9-35" CLAY LOAM SOME MOTTLING 35-78" CLAY GRAVELY LOAM</p> <p>D6-1 76" DEEP 11/16/15 0-10" TOPSOIL 10"-76" CLAY LOAM SOME ROCKS</p> <p>D6-1 WITNESSES BY MH&E</p> | <p>D5 85" DEEP 06/26/15 0-10" TOPSOIL 10-29" CLAY LOAM 29-85" CLAY GRAVELY LOAM SOME MOTTLING</p> <p>D6 81" DEEP 06/26/15 0-9" TOPSOIL 9-42" CLAY LOAM 42-81" CLAY LOAM SOME CLAY PIECES</p> <p>D7-1 76" DEEP 11/16/15 0-6" TOPSOIL 6-76" CLAY LOAM GRITTY</p> <p>D7-1 WITNESSES BY MH&E</p> | <p>D7 82" DEEP 06/26/15 0-9" TOPSOIL 9-82" CLAY LOAM SOME MOTTLING</p> <p>D8 84" DEEP 06/26/15 0-8" TOPSOIL SOME MOTTLING 8-84" CLAY LOAM SOME MOTTLING</p> <p>D9-1 78" DEEP 11/16/15 0-10" TOPSOIL SOME MOTTLING 10-78" GRAVELY CLAY LOAM</p> <p>D9-2 84" DEEP 07/06/16 0-6" TOPSOIL 6-48" SILTY CLAY LOAM WITH GRAVEL 48"-84" SILTY CLAY LOAM WITH SHALE NO MOTTLING, WATER OR ROCK</p> <p>D9-3 72" DEEP 07/06/16 0-6" TOPSOIL 6-48" SILTY CLAY LOAM WITH GRAVEL 48"-72" SILTY CLAY LOAM WITH SHALE NO MOTTLING, WATER OR ROCK</p> <p>D9-1 WITNESSES BY MH&E</p> | <p>D3 84" DEEP 06/26/15 0-8" TOPSOIL 8-35" CLAY LOAM 35-84" CLAY LOAM WITH SHALE</p> <p>D4 80" DEEP 06/26/15 0-5" TOPSOIL 5-22" CLAY LOAM 22-80" CLAY LOAM, MOTTLING THROUGHOUT, WATER AT 18"</p> <p>D8-1 60" DEEP 11/16/15 0-8" TOPSOIL 8-24" CLAY STRIP 24"-60" CLAY LOAM w/MED STONE HARD PAN @ 60"</p> <p>D8-1 WITNESSES BY MH&E</p> |

| PERCOLATION DATA: | LOT 5 | LOT 6 | LOT 7 | LOT 9 | LOT 8 (UNDER CONSTRUCTION) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|-------|-------|-------|----------------------------|-------|--------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|------|--------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|---|-------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|-------|-------|-------|--------|-------|-------|------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|------|------|------|------|------|---|-------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|---|-------|-------|-------|------|--------|-------|------|------|------|------|------|------|-------|-------|------|------|------|--------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|---|-------|-------|-------|-------|-------|------|--------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|-------|------|------|------|--------|------|------|------|------|------|------|------|
| | <p>* P1 12" DEEP 07/6/15</p> <table border="1"> <tr><td>START</td><td>11:10</td><td>11:48</td><td>12:22</td><td>12:59</td></tr> <tr><td>FINISH</td><td>11:37</td><td>12:20</td><td>12:57</td><td>1:34</td></tr> <tr><td>TIME</td><td>0:27</td><td>0:32</td><td>0:35</td><td>0:35</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 35 MINUTES /INCH</p> <p>* P2 12" DEEP 07/6/15</p> <table border="1"> <tr><td>START</td><td>11:11</td><td>11:27</td><td>11:50</td></tr> <tr><td>FINISH</td><td>11:26</td><td>11:47</td><td>12:10</td></tr> <tr><td>TIME</td><td>0:15</td><td>0:20</td><td>0:20</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 20 MINUTES /INCH</p> <p>+* P5-1 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>10:28</td><td>10:58</td><td>11:28</td><td>12:32</td><td>1:04</td></tr> <tr><td>FINISH</td><td>10:10</td><td>10:30</td><td>11:00</td><td>11:30</td><td>12:32</td></tr> <tr><td>TIME</td><td>0:18</td><td>0:28</td><td>0:28</td><td>0:32</td><td>0:32</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 32 MINUTES /INCH</p> <p>+* P5-2 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>10:55</td><td>11:31</td><td>12:07</td></tr> <tr><td>FINISH</td><td>10:31</td><td>10:56</td><td>11:32</td></tr> <tr><td>TIME</td><td>0:24</td><td>0:35</td><td>0:35</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 35 MINUTES /INCH</p> | START | 11:10 | 11:48 | 12:22 | 12:59 | FINISH | 11:37 | 12:20 | 12:57 | 1:34 | TIME | 0:27 | 0:32 | 0:35 | 0:35 | START | 11:11 | 11:27 | 11:50 | FINISH | 11:26 | 11:47 | 12:10 | TIME | 0:15 | 0:20 | 0:20 | START | 10:28 | 10:58 | 11:28 | 12:32 | 1:04 | FINISH | 10:10 | 10:30 | 11:00 | 11:30 | 12:32 | TIME | 0:18 | 0:28 | 0:28 | 0:32 | 0:32 | START | 10:55 | 11:31 | 12:07 | FINISH | 10:31 | 10:56 | 11:32 | TIME | 0:24 | 0:35 | 0:35 | <p>* P3 12" DEEP 07/6/15</p> <table border="1"> <tr><td>START</td><td>11:57</td><td>12:02</td><td>12:09</td></tr> <tr><td>FINISH</td><td>12:01</td><td>12:09</td><td>12:16</td></tr> <tr><td>TIME</td><td>0:04</td><td>0:07</td><td>0:07</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 7 MINUTES /INCH</p> <p>* P4 12" DEEP 07/6/15</p> <table border="1"> <tr><td>START</td><td>11:59</td><td>12:26</td></tr> <tr><td>FINISH</td><td>12:25</td><td>12:52</td></tr> <tr><td>TIME</td><td>0:26</td><td>0:26</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 26 MINUTES /INCH</p> <p>* P6-1 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>10:34</td><td>10:52</td><td>11:21</td><td>11:50</td></tr> <tr><td>FINISH</td><td>10:24</td><td>10:35</td><td>10:53</td><td>11:22</td></tr> <tr><td>TIME</td><td>0:10</td><td>0:27</td><td>0:28</td><td>0:28</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 28 MINUTES /INCH</p> | START | 11:57 | 12:02 | 12:09 | FINISH | 12:01 | 12:09 | 12:16 | TIME | 0:04 | 0:07 | 0:07 | START | 11:59 | 12:26 | FINISH | 12:25 | 12:52 | TIME | 0:26 | 0:26 | START | 10:34 | 10:52 | 11:21 | 11:50 | FINISH | 10:24 | 10:35 | 10:53 | 11:22 | TIME | 0:10 | 0:27 | 0:28 | 0:28 | <p>+* P5 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>11:02</td><td>11:28</td><td>11:59</td></tr> <tr><td>FINISH</td><td>11:22</td><td>11:59</td><td>12:30</td></tr> <tr><td>TIME</td><td>0:20</td><td>0:31</td><td>0:31</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 31 MINUTES /INCH</p> <p>+* P6 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>11:07</td><td>11:27</td><td>11:44</td></tr> <tr><td>FINISH</td><td>11:27</td><td>11:43</td><td>12:00</td></tr> <tr><td>TIME</td><td>0:20</td><td>0:16</td><td>0:16</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 16 MINUTES /INCH</p> | START | 11:02 | 11:28 | 11:59 | FINISH | 11:22 | 11:59 | 12:30 | TIME | 0:20 | 0:31 | 0:31 | START | 11:07 | 11:27 | 11:44 | FINISH | 11:27 | 11:43 | 12:00 | TIME | 0:20 | 0:16 | 0:16 | <p>* P9 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>12:45</td><td>12:58</td><td>1:04</td></tr> <tr><td>FINISH</td><td>12:57</td><td>1:04</td><td>1:10</td></tr> <tr><td>TIME</td><td>0:07</td><td>0:06</td><td>0:06</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 6 MINUTES /INCH</p> <p>* P10 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>12:52</td><td>1:07</td><td>1:32</td><td>2:06</td></tr> <tr><td>FINISH</td><td>1:07</td><td>1:32</td><td>2:04</td><td>2:38</td></tr> <tr><td>TIME</td><td>0:15</td><td>0:25</td><td>0:32</td><td>0:32</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 32 MINUTES /INCH</p> <p>+* P9-2 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>2:18</td><td>2:33</td><td>3:04</td><td>3:27</td><td>3:49</td></tr> <tr><td>FINISH</td><td>2:08</td><td>2:18</td><td>2:34</td><td>3:05</td><td>3:27</td></tr> <tr><td>TIME</td><td>0:10</td><td>0:15</td><td>0:30</td><td>0:22</td><td>0:22</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 22 MINUTES /INCH</p> <p>+* P9-3 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>2:24</td><td>2:34</td><td>3:04</td><td>2:06</td></tr> <tr><td>FINISH</td><td>2:17</td><td>2:24</td><td>2:48</td><td>2:38</td></tr> <tr><td>TIME</td><td>0:07</td><td>0:10</td><td>0:32</td><td>0:32</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 32 MINUTES /INCH</p> | START | 12:45 | 12:58 | 1:04 | FINISH | 12:57 | 1:04 | 1:10 | TIME | 0:07 | 0:06 | 0:06 | START | 12:52 | 1:07 | 1:32 | 2:06 | FINISH | 1:07 | 1:32 | 2:04 | 2:38 | TIME | 0:15 | 0:25 | 0:32 | 0:32 | START | 2:18 | 2:33 | 3:04 | 3:27 | 3:49 | FINISH | 2:08 | 2:18 | 2:34 | 3:05 | 3:27 | TIME | 0:10 | 0:15 | 0:30 | 0:22 | 0:22 | START | 2:24 | 2:34 | 3:04 | 2:06 | FINISH | 2:17 | 2:24 | 2:48 | 2:38 | TIME | 0:07 | 0:10 | 0:32 | 0:32 | <p>* P7 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>11:19</td><td>11:44</td><td>12:17</td><td>12:58</td><td>1:45</td></tr> <tr><td>FINISH</td><td>11:41</td><td>12:16</td><td>12:54</td><td>1:39</td><td>2:22</td></tr> <tr><td>TIME</td><td>0:22</td><td>0:32</td><td>0:37</td><td>0:41</td><td>0:37</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 37 MINUTES /INCH</p> <p>* P8 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>11:25</td><td>11:37</td><td>11:49</td></tr> <tr><td>FINISH</td><td>11:33</td><td>11:45</td><td>11:57</td></tr> <tr><td>TIME</td><td>0:08</td><td>0:08</td><td>0:08</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 8 MINUTES /INCH</p> <p>+* P8-1 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>1:45</td><td>2:22</td><td>2:59</td></tr> <tr><td>FINISH</td><td>1:23</td><td>1:46</td><td>2:23</td></tr> <tr><td>TIME</td><td>0:22</td><td>0:36</td><td>0:36</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 36 MINUTES /INCH</p> | START | 11:19 | 11:44 | 12:17 | 12:58 | 1:45 | FINISH | 11:41 | 12:16 | 12:54 | 1:39 | 2:22 | TIME | 0:22 | 0:32 | 0:37 | 0:41 | 0:37 | START | 11:25 | 11:37 | 11:49 | FINISH | 11:33 | 11:45 | 11:57 | TIME | 0:08 | 0:08 | 0:08 | START | 1:45 | 2:22 | 2:59 | FINISH | 1:23 | 1:46 | 2:23 | TIME | 0:22 | 0:36 | 0:36 |
| START | 11:10 | 11:48 | 12:22 | 12:59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 11:37 | 12:20 | 12:57 | 1:34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:27 | 0:32 | 0:35 | 0:35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 11:11 | 11:27 | 11:50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 11:26 | 11:47 | 12:10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:15 | 0:20 | 0:20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 10:28 | 10:58 | 11:28 | 12:32 | 1:04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 10:10 | 10:30 | 11:00 | 11:30 | 12:32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:18 | 0:28 | 0:28 | 0:32 | 0:32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 10:55 | 11:31 | 12:07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 10:31 | 10:56 | 11:32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:24 | 0:35 | 0:35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 11:57 | 12:02 | 12:09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 12:01 | 12:09 | 12:16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:04 | 0:07 | 0:07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 11:59 | 12:26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 12:25 | 12:52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:26 | 0:26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 10:34 | 10:52 | 11:21 | 11:50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 10:24 | 10:35 | 10:53 | 11:22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:10 | 0:27 | 0:28 | 0:28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 11:02 | 11:28 | 11:59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 11:22 | 11:59 | 12:30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:20 | 0:31 | 0:31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 11:07 | 11:27 | 11:44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 11:27 | 11:43 | 12:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:20 | 0:16 | 0:16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 12:45 | 12:58 | 1:04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 12:57 | 1:04 | 1:10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:07 | 0:06 | 0:06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 12:52 | 1:07 | 1:32 | 2:06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 1:07 | 1:32 | 2:04 | 2:38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:15 | 0:25 | 0:32 | 0:32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 2:18 | 2:33 | 3:04 | 3:27 | 3:49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 2:08 | 2:18 | 2:34 | 3:05 | 3:27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:10 | 0:15 | 0:30 | 0:22 | 0:22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 2:24 | 2:34 | 3:04 | 2:06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 2:17 | 2:24 | 2:48 | 2:38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:07 | 0:10 | 0:32 | 0:32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 11:19 | 11:44 | 12:17 | 12:58 | 1:45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 11:41 | 12:16 | 12:54 | 1:39 | 2:22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:22 | 0:32 | 0:37 | 0:41 | 0:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 11:25 | 11:37 | 11:49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 11:33 | 11:45 | 11:57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:08 | 0:08 | 0:08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| START | 1:45 | 2:22 | 2:59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH | 1:23 | 1:46 | 2:23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | 0:22 | 0:36 | 0:36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| SEPTIC DESIGN CRITERIA: | LOT 5 | LOT 6 | LOT 7 | LOT 9 | LOT 8 (UNDER CONSTRUCTION) |
|-------------------------|---|---|---|---|--|
| | <p>+ USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 35 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 6@55' = 336LF (330LF REQUIRED) 4BR - 8@56' = 448LF (440LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED | <p>+ USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 28 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 5@55' = 275LF (275LF REQUIRED) 4BR - 7@55' = 371LF (385LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED | <p>+ USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 31 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 6@56' = 336LF (330LF REQUIRED) 4BR - 8@56' = 448LF (440LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED | <p>+ USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 32 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 6@56' = 336LF (330LF REQUIRED) 4BR - 8@56' = 448LF (440LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED | <p>NOTE: HOUSE IS UNDER CONSTRUCTION + USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 37 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 6@56' = 336LF (330LF REQUIRED) 4BR - 8@56' = 448LF (440LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED PUMP CHAMBER REQUIRED |

THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.
TOWN PROJECT#2015-29

| REVISIONS | | | |
|-----------|----------|-----|------------------------------------|
| REV. | DATE | BY | DESCRIPTION |
| 2 | 06/08/17 | RBM | REVISED PER PLANING BOARD COMMENTS |
| 1 | 05/01/17 | RBM | REVISED PER PLANING BOARD COMMENTS |

ENGINEER

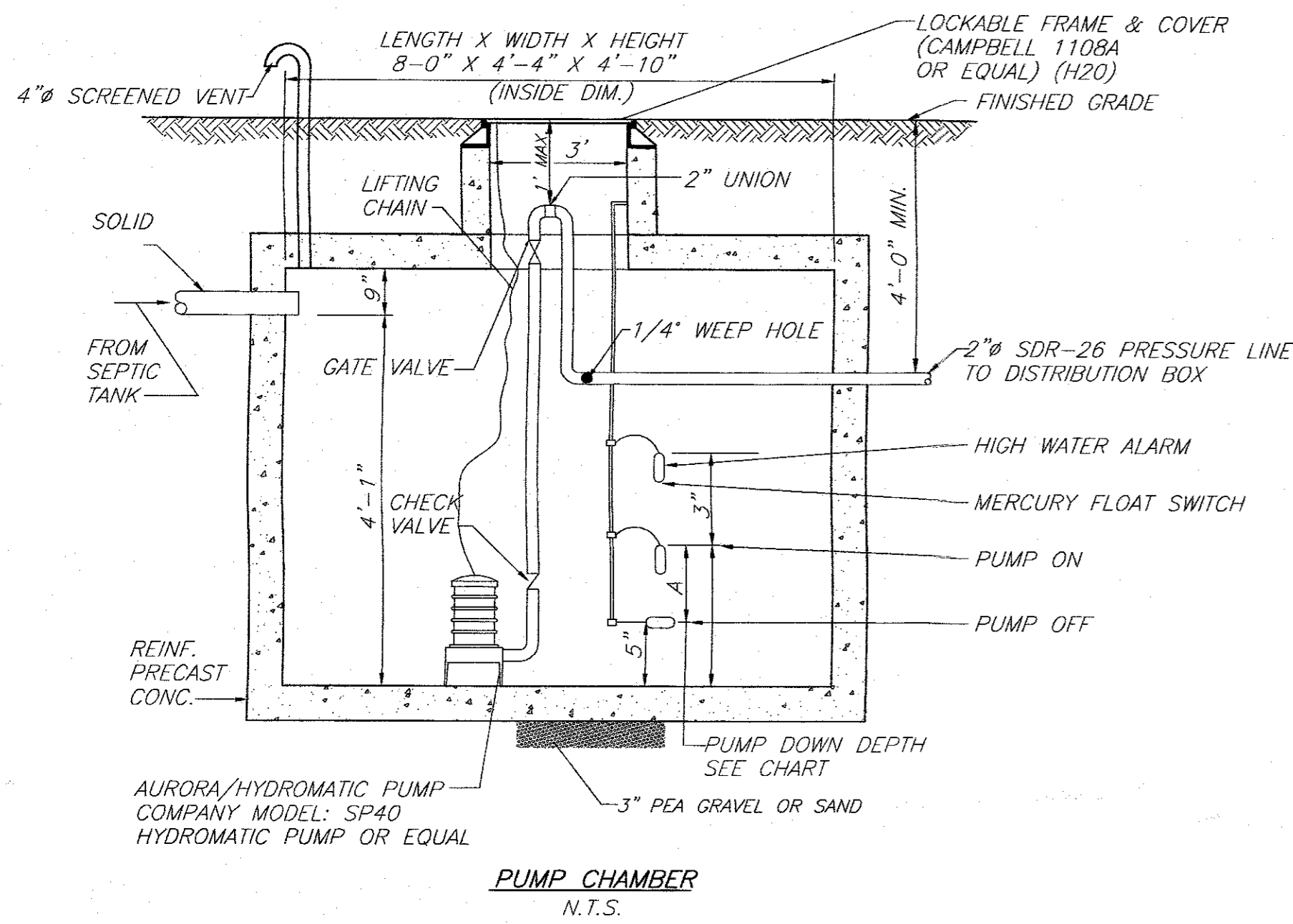
TALCOTT ENGINEERING DESIGN PLLC
1 GARDNERTOWN ROAD
NEWBURGH, NY 12550
(845)-569-8400
(FAX)(845)-569-4583
TALCOTTDESIGN12@GMAIL.COM

SEPTIC TESTING & DESIGNS
SUBDIVISION ENTITLED
"DOMINGUES II"
CANDELTICK HILL ROAD, SBL: 7-1-1.5
LOT# 5 OF FM# 594-08
TOWN OF NEWBURGH, ORANGE COUNTY, NY

DATE: 10/27/15 SCALE: N.T.S. JOB NUMBER: 15082-CDS SHEET NUMBER: 3 OF 5

PUMP CHAMBER NOTES:

1. CONTRACTOR SHALL DETERMINE LENGTHS OF REQUIRED ELECTRICAL CABLE AND AVAILABLE VOLTAGE PRIOR TO ORDERING EQUIPMENT.
2. ALL WIRING SHALL CONFORM TO NATIONAL ELECTRICAL CODE & LOCAL CODE REQUIREMENTS.
3. THE POWER AND CONTROL WIRING SHALL BE MADE DIRECTLY TO THE CONTROL PANEL WITHOUT AND OUTSIDE SPLICES. CONTROL PANEL TO BE LOCATED INSIDE BASEMENT OF HOUSE AUDIBLE ALARMS AND FLASHING LIGHT.
4. A N.Y.S. PROFESSIONAL ENGINEER MUST CERTIFY TO THE CONSTRUCTION OF THE SYSTEM.
5. QUANTITY Dosed IS BASED UPON 75% OF 4" PIPE AND 100% OF FORCE MAIN.
6. QUANTITY STORED IS BASED UPON (1) DAYS FLOW MINIMUM.
7. AS-BUILT MUST SHOW FORCE MAIN LOCATION.



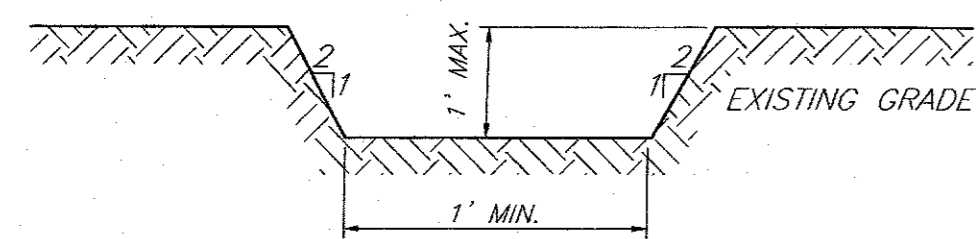
PUMP CHAMBER
N.T.S.

3BR
FORCE MAIN: 50 X 0.163 GAL/LF = 8.15 GAL.
LATS.: 75% X 336 LF X 0.653 GAL/LF = 164.56 GAL.
TOTAL 172.71 GAL.

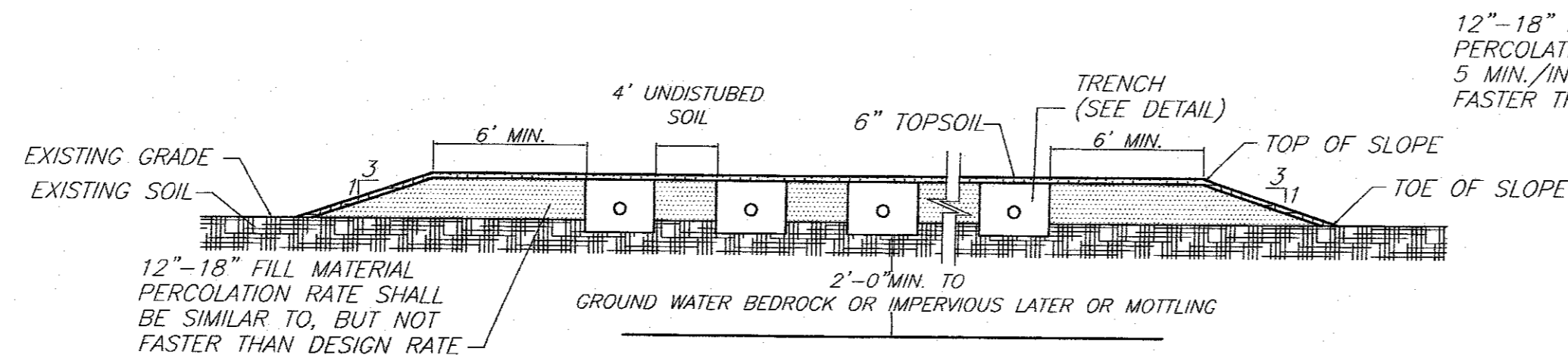
4BR
FORCE MAIN: 50 X 0.163 GAL/LF = 8.15 GAL.
LATS.: 75% X 448 LF X 0.653 GAL/LF = 219.41 GAL.
TOTAL 227.56 GAL.

STORAGE CALC.: 21.61 GALS/IN
PUMP DOWN: 8" (A)
DOSE: 172.89 gal.
STORAGE DEPTH: 2'-9"
STORAGE QTY (GALS.): 713.13 GALS.
MAX. ELEV. DIFFERENTIAL: 20'

STORAGE CALC.: 21.61 GALS/IN
PUMP DOWN: 10 1/2" (A)
DOSE: 226.91 gal.
STORAGE DEPTH: 2'-6 1/2"
STORAGE QTY (GALS.): 659.11 GALS.
MAX. ELEV. DIFFERENTIAL: 20'

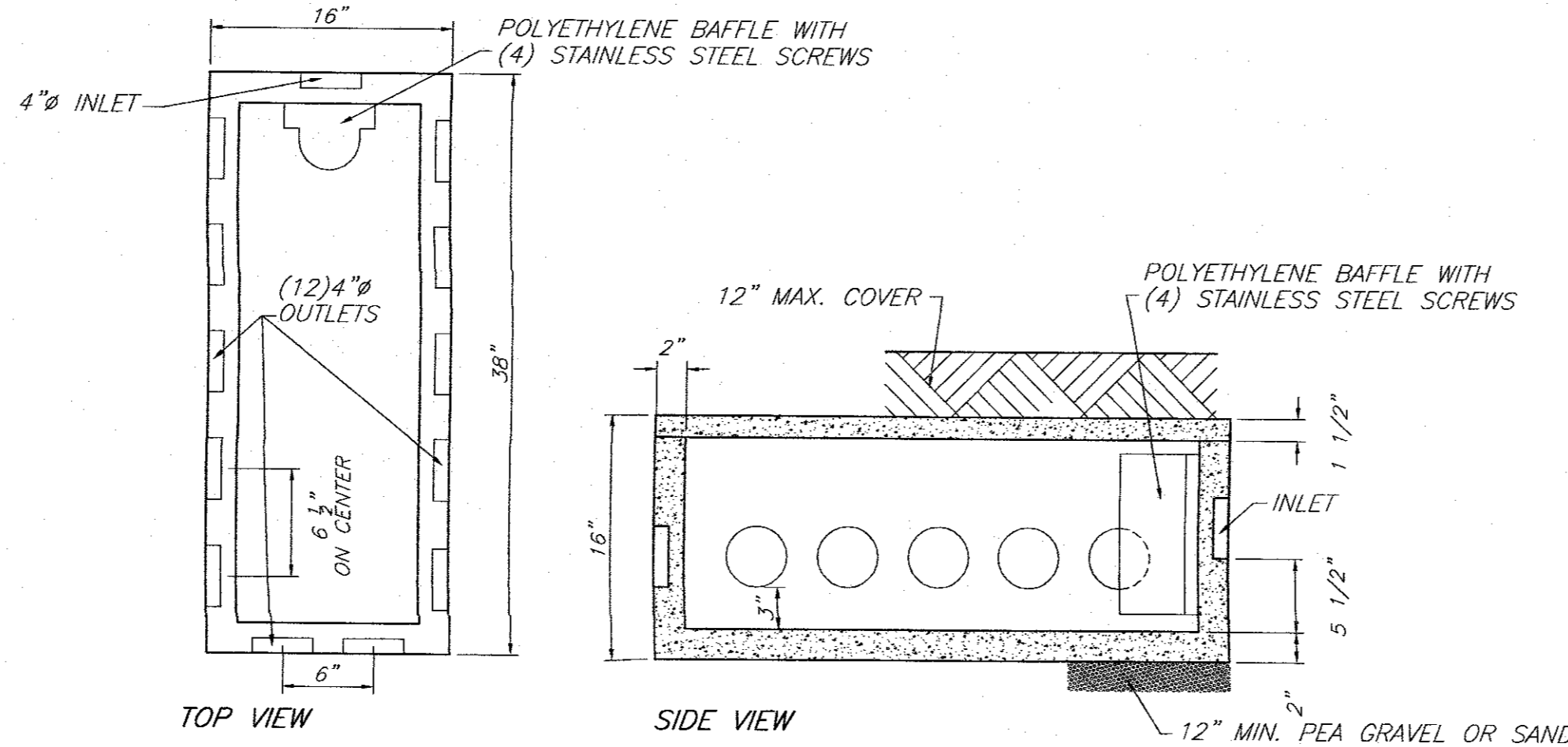


GRASS SWALE DETAIL
N.T.S.



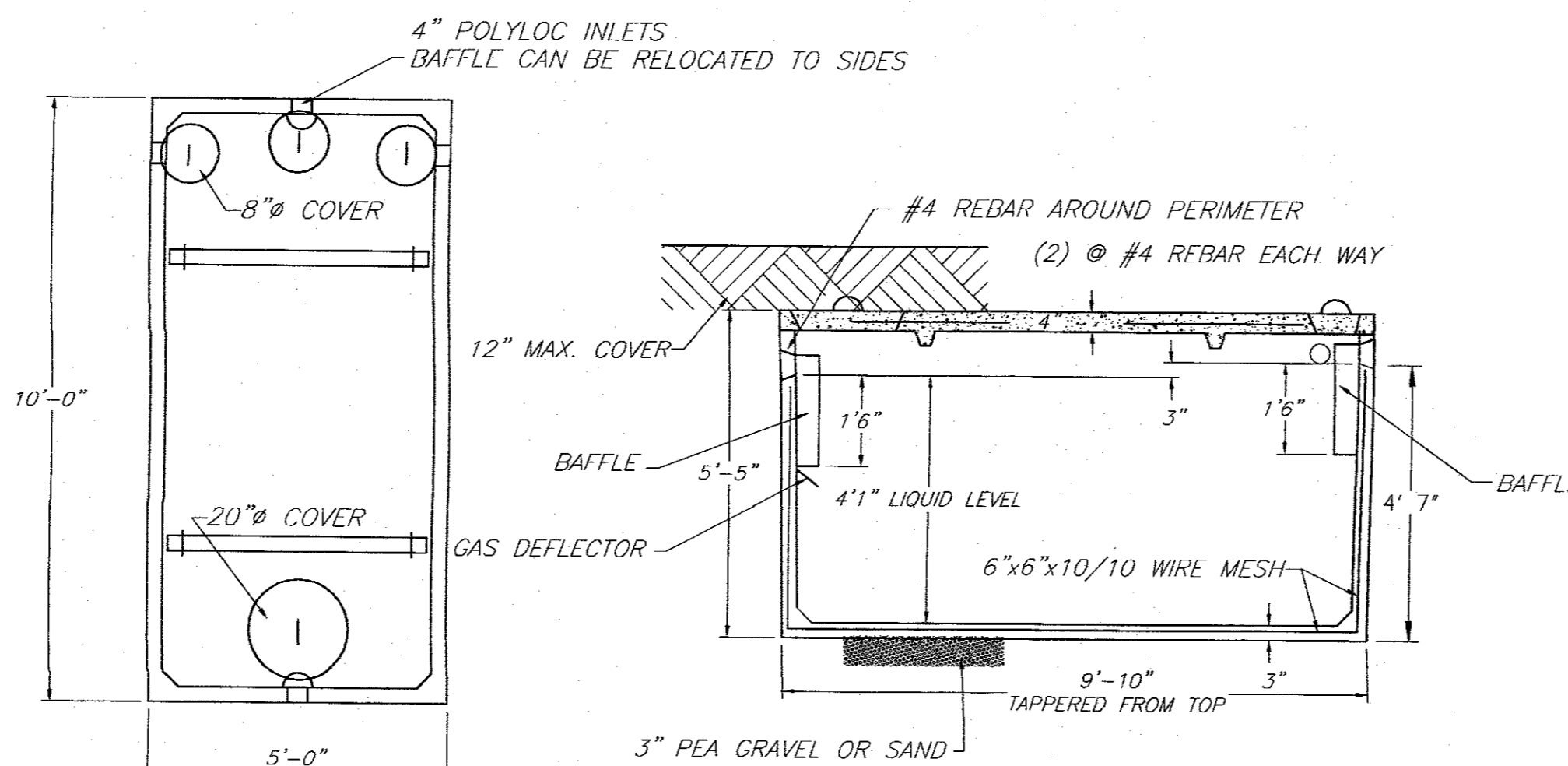
SHALLOW SYSTEM DETAIL
N.T.S.

- NOTES:**
1. BOTTOM OF ALL TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL.
 2. MAXIMUM DEPTH OF USABLE FILL PLUS 6" OF TOPSOIL SHALL NOT EXCEED 30".
 3. MAXIMUM COVER OVER TRENCH AGGREGATE SHALL NOT EXCEED 12".



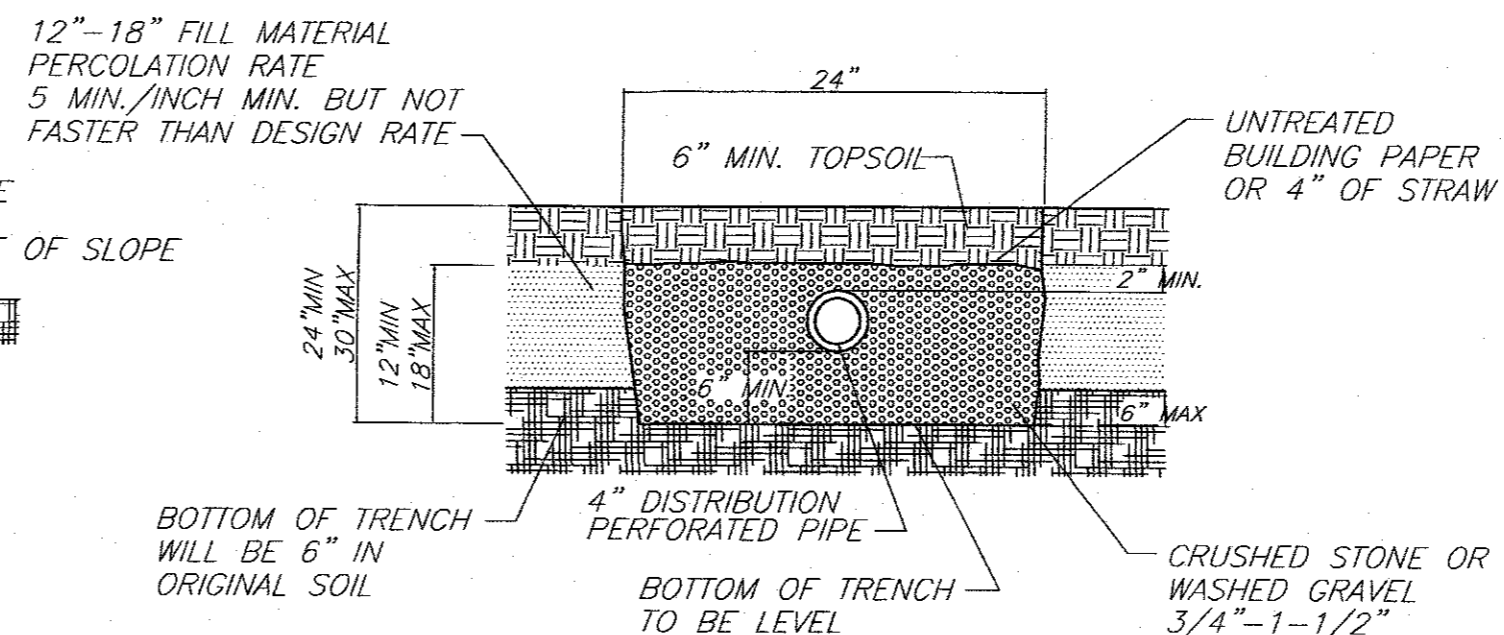
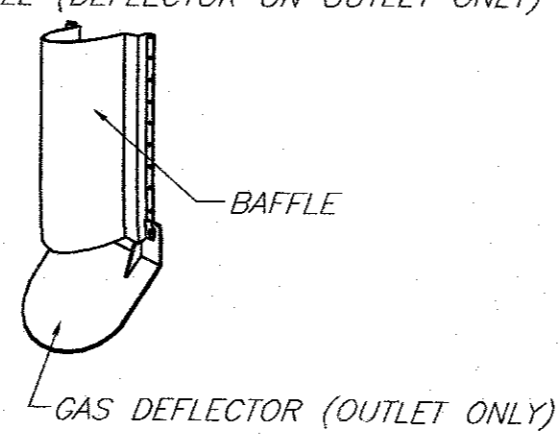
WOODARD'S 12 OUTLET DISTRIBUTION BOX OR EQUAL
N.T.S.

SPECIFICATIONS
CONCRETE MINIMUM STRENGTH- 4,000 PSI AT 28 DAYS
REINFORCEMENT- 6"x6" 10GA. WIRE MESH
AIR ENTRAPMENT- 5%
PIPE CONNECTION- POLYLOK SEAL (PATENTED)
LOAD RATING- 300PSF WEIGHT= 325 LBS.

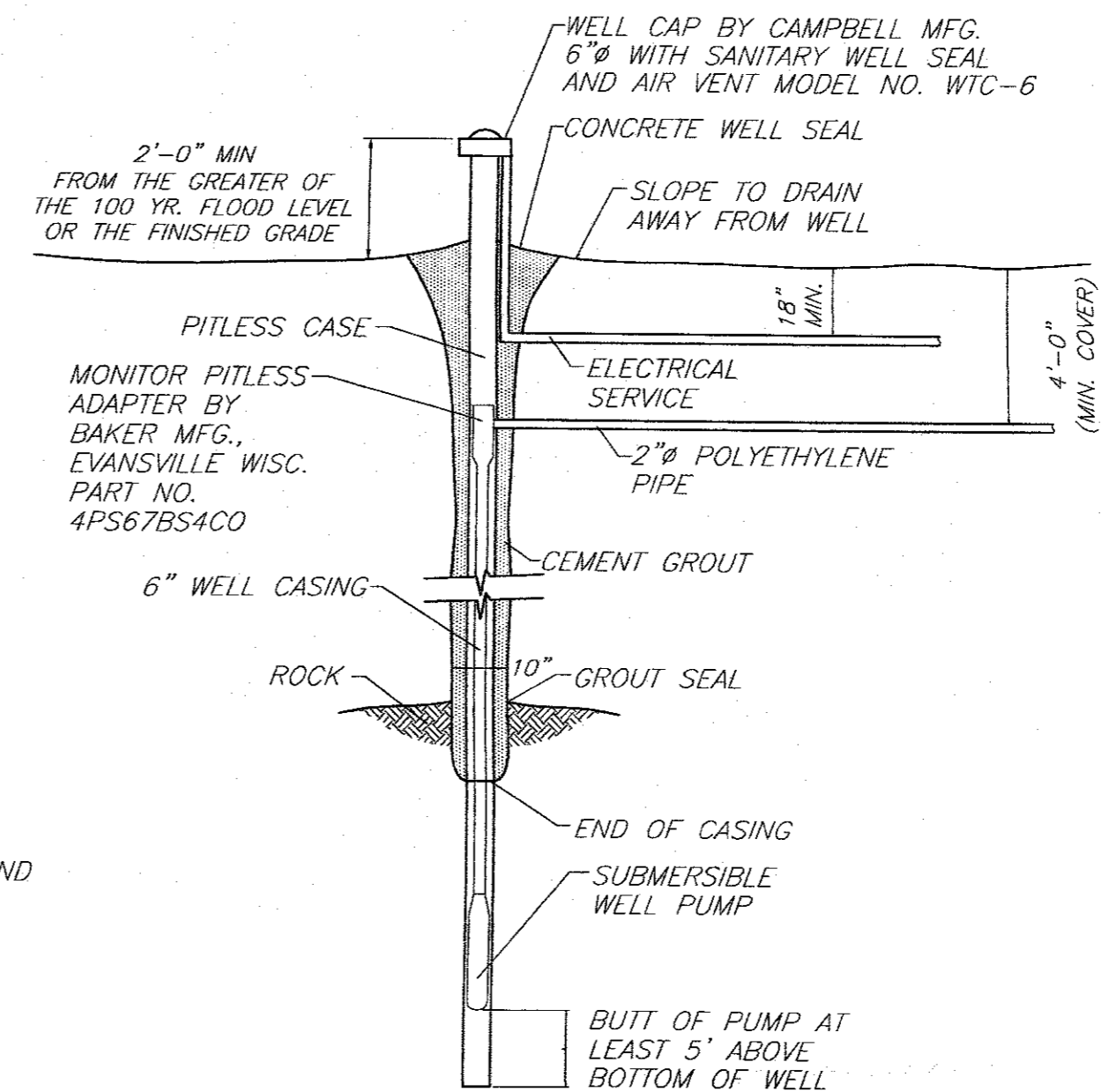


WOODARD'S 1250gal SEPTIC TANK OR EQUAL
N.T.S.

SPECIFICATIONS
CONCRETE MINIMUM STRENGTH- 4,000 PSI AT 28 DAYS
REINFORCEMENT- 6"x6" 10GA. WWF, #4 REBAR
AIR ENTRAPMENT- 5%
CONSTRUCTION JOINT- BUTYL RUBBER - BASE CEMENT
PIPE CONNECTION- POLYLOK SEAL (PATENTED)
LOAD RATING- 300PSF WEIGHT = 9,500LBS

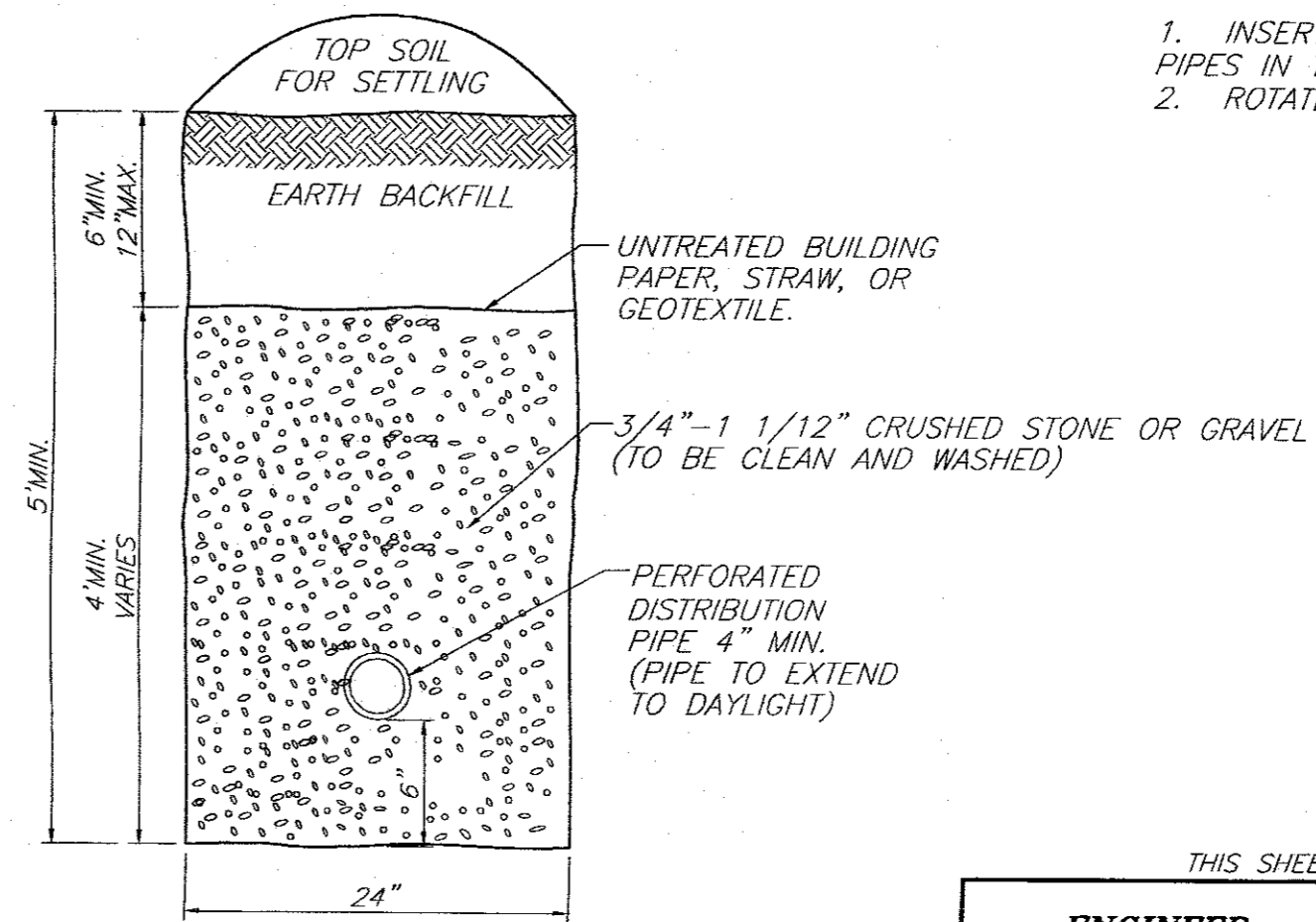


SHALLOW SYSTEM TRENCH DETAIL
N.T.S.



TYPICAL WELL DETAIL
N.T.S.

- WELL NOTES:**
1. CASING DEPTH SHALL EXTEND AT LEAST 40' BELOW GROUND IN ANY CONDITION
 2. WELL TO BE INSTALLED PER 10NYCRR PART 5, APPENDIX 5-B "STANDARDS FOR WATER WELLS" NOW CURRENT EDITION
 3. WELL SHALL HAVE A MIN. YIELD OF 5 GPM.
 4. WELL CASING MATERIAL IS TO BE IN COMPLIANCE WITH AWWA STANDARD A-100, LATEST VERSION.



CURTAIN DRAIN
N.T.S.

SEPTIC SYSTEM GENERAL NOTES:

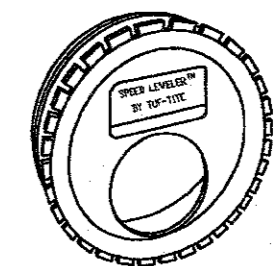
1. ALL PORTIONS OF THE SEPTIC FIELD WILL BE A MINIMUM DISTANCE OF 200 FEET UP SLOPE AND 100 FEET DOWN SLOPE FROM ANY WELL.
2. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM ANY BUILDING OR PROPERTY LINE AND 50' FROM WELL.
3. CELLAR DRAINS, ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN OR INTO THE VICINITY OF ABSORPTION FIELD.
4. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE CONSTRUCTED OVER ANY PORTION OF THE ABSORPTION FIELD.
5. NO TRENCHES TO BE INSTALLED IN WET SOIL.
6. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL IN ABSORPTION TRENCH.
7. ABOUT ALL PIPE PENETRATIONS TO CONC. SEPTIC TANK & DISTRIBUTION BOX.
8. DISTRIBUTION LINES ARE TO BE CAPPED.
9. THE PERIMETER OF THE ABSORPTION FIELD SHOULD BE GRADED TO DIVERT SURFACE WATER.
10. ALL NEWLY DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED UPON CONSTRUCTION COMPLETION USING GRASS SEED & MULCH.
11. NO SEWAGE SYSTEM SHALL BE PLACED WITHIN 100' OF ANY WATER COURSE OR 35' DRAINAGE DITCH.
12. ALL LAUNDRY AND KITCHEN WASTES SHALL BE DISCHARGED INTO SEWAGE SYSTEM.
13. BENDS SHALL BE USED WHEN ENTRANCE OR EXIT FROM SEPTIC TANK IS NOT APPROXIMATELY STRAIGHT. IF BENDS ARE USED AT POINTS OTHER THAN ENTRANCE OR EXIT POINTS, THEN A CLEANOUT IS REQUIRED.
14. THE DESIGN AND LOCATION OF THE SANITARY FACILITIES SHALL NOT BE CHANGED WITHOUT RESUBMISSION FOR APPROVAL.
15. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION.
16. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOUNT FOR THESE.
17. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
18. THE PURCHASER OF THIS LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES.
19. THE DESIGN ENGINEER WILL BE REQUIRED TO CERTIFY THE COMPLETED DISPOSAL FACILITY.

STANDARD NOTES:

THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:
"APPENDIX 75-A, WASTE TREATMENT - INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE SANITARY CODE."
"WASTE TREATMENT HANDBOOK, INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE DEPARTMENT OF HEALTH."
"RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH."
"PLANNING THE SUBDIVISION AS PART OF THE TOTAL ENVIRONMENT, NEW YORK STATE DEPARTMENT OF HEALTH."

"THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND TREATMENT AND WATER SUPPLY FACILITIES.

ALL WELLS AND S.D.S. EXISTING OR APPROVED WITHIN 200' OF THE PROPOSED WELLS AND S.D.S. ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE S.D.S. AND WELL. IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE CERTIFYING ENGINEER THAT THE SEPTIC TANK IS SEALED, WATER TIGHT AND ACCEPTABLE FOR USE. THIS SHALL REQUIRE, AS A MINIMUM, THE FILLING OF THE TANK WITH WATER TO OBSERVE IF IT IS IN FACT SEALED, WATER TIGHT AND ACCEPTABLE FOR USE.
ALL PROPOSED WELLS AND SERVICE LINES ON THIS PLAN ARE ACCESSIBLE FOR INSTALLATION AND PLACEMENT.
TRENCH BOTTOMS TO BE SET LEVEL AND PARALLEL TO EXISTING CONTOURS.
MAXIMUM DEPTH OF USABLE FILL PLUS 6" OF TOPSOIL SHALL NOT EXCEED 30".



1. INSERT A SPEED LEVELER IN THE END OF ALL OUTLET PIPES IN THE DROPBOX.
2. ROTATE UNTIL EFFLUENT ENTERS ALL OUTLETS EQUALLY.

WOODARD'S SPEED LEVELER FSL-4
N.T.S.

TOWN PROJECT#2015-29
THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

| | | | |
|-----------------|---|------------|--------------|
| ENGINEER | TALCOTT ENGINEERING DESIGN PLLC | | |
| | CARDEN TOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX) (845)-569-4383 TALCOTTDESIGN12@GMAIL.COM | | |
| | SEPTIC DETAILS | | |
| | SUBDIVISION ENTITLED "DOMINGUES II" | | |
| | CANDLESTICK HILL ROAD, SBL: 7-1-1.5 | | |
| | LOT# 5 OF FM# 594-08 | | |
| | TOWN OF NEWBURGH, ORANGE COUNTY, NY | | |
| DATE | SCALE | JOB NUMBER | SHEET NUMBER |
| 10/27/15 | AS NOTED | 150B2-CDS | 4 OF 5 |

| REVISIONS | | | |
|-----------|----------|-----|------------------------------------|
| REV. | DATE | BY | DESCRIPTION |
| 2 | 05/05/17 | RBM | REVISED PER PLANING BOARD COMMENTS |
| 1 | 05/01/17 | RBM | REVISED PER PLANING BOARD COMMENTS |

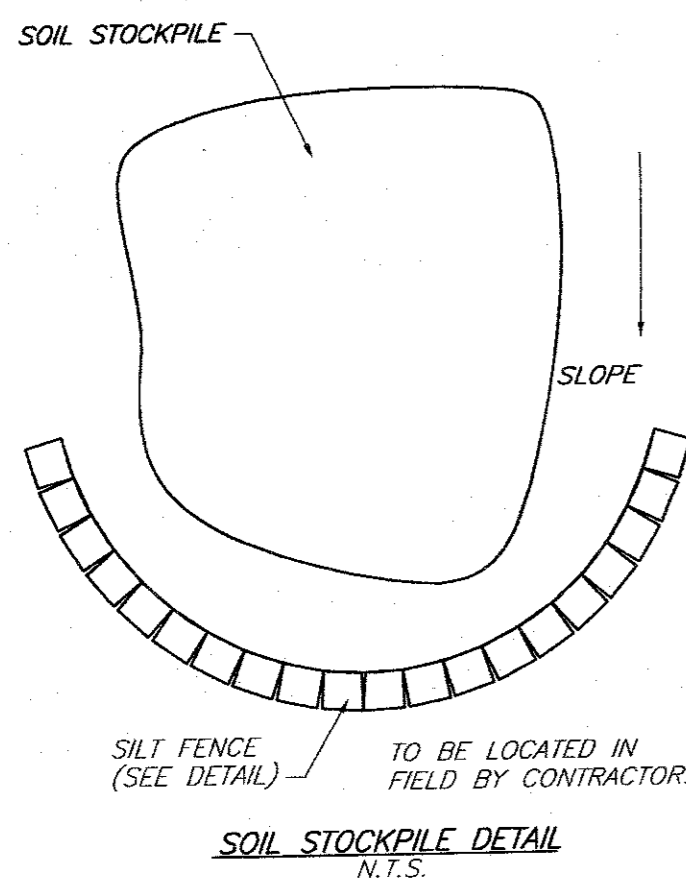
VEGETATION REQUIREMENTS

- 1.) SITE PREPARATION
 A. INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEED TO DESIRED GRADES USING A MINIMUM OF 4 IN. TOPSOIL.
 B. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES.
 C. LIME TO A PH OF 6.5
 D. FERTILIZE AS PER SOIL TEST OR, IF FERTILIZER MUST BE APPLIED BEFORE SOIL TEST RESULTS ARE RECEIVED, APPLY 850 POUNDS OF 5-10-10 OR EQUIVALENT PER ACRE (20 LBS/1,000 SQ. FT.)
 E. INCORPORATE LIME AND FERTILIZER IN TOP 2-4 INCHES OF TOPSOIL.
 F. SMOOTH. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS, AND FOREIGN MATTER FROM THE SURFACE. FIRM THE SEEDBED.
 2.) PLANTING—SUNNY LOCATION.
 USE A CULTIPACKER TYPE SEEDER IF POSSIBLE. SEED TO A DEPTH OF 1/8 TO 1/4 INCH. IF SEED IS TO BE BROADCAST, CULTIPACK OR ROLL AFTER SEEDING. IF HYDROSEEDING, LIME AND FERTILIZER MAY BE APPLIED THROUGH THE SEEDER AND ROLLING IS NOT PRACTICAL. SEED USING THE FOLLOWING MIX AND RATES

GRASS SEEDING CHART

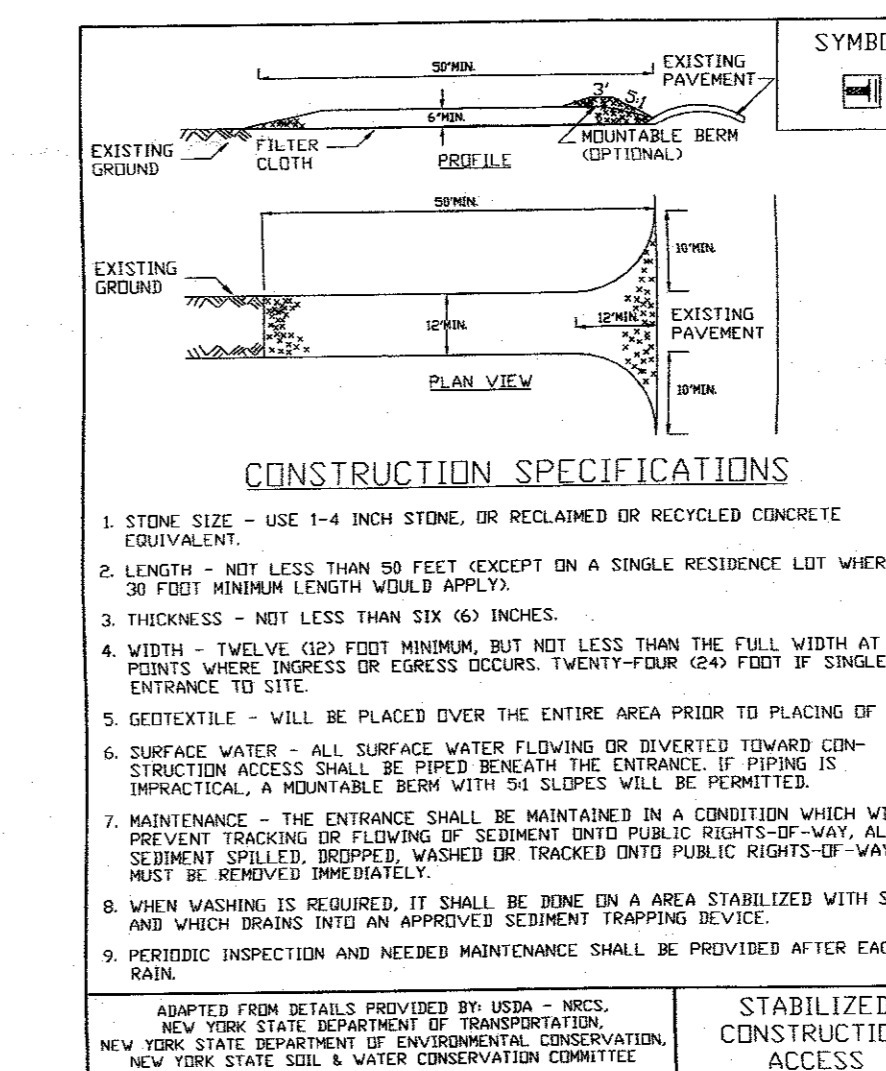
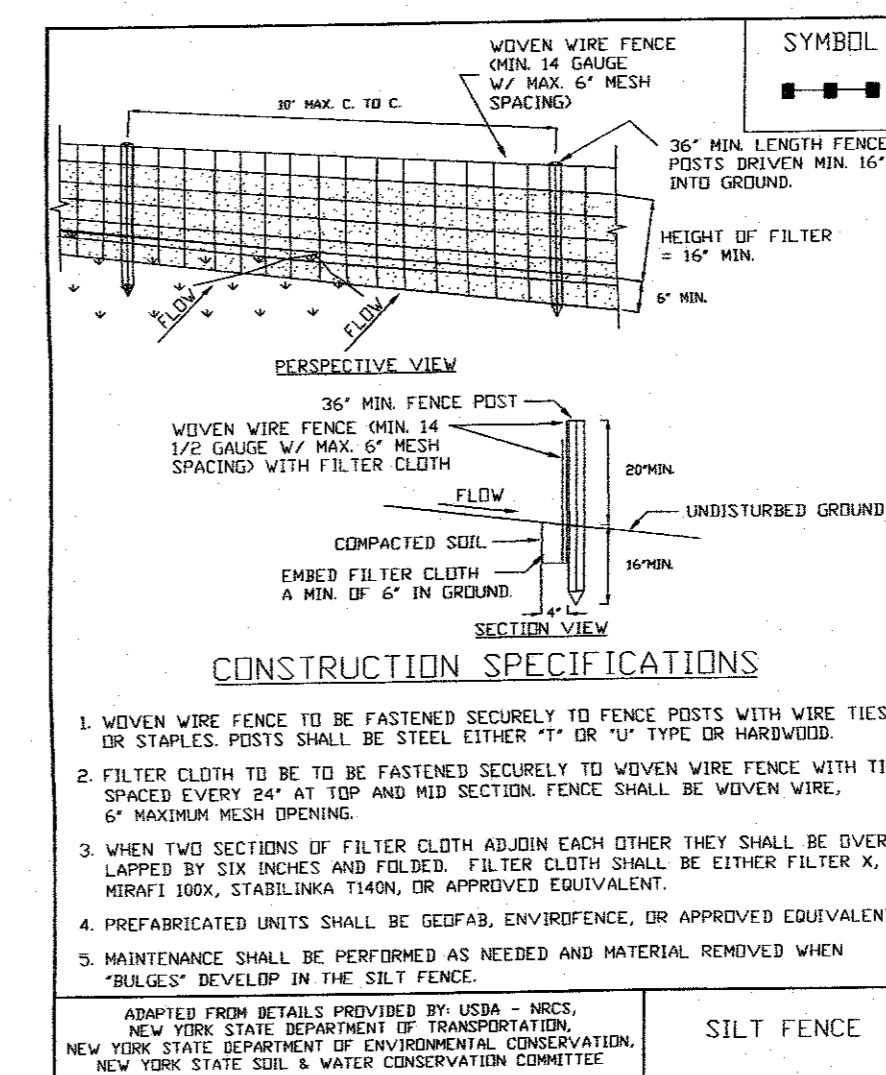
| SPECIES (% BY WEIGHT) | LBS./1,000SQ.FT | LBS./ACRE |
|--|-----------------|-----------|
| 65% KENTUCKY BLUEGRASS BLEND | 2.0-2.6 | 85-114 |
| 20% PERENNIAL RYEGRASS | 0.6-0.8 | 26-35 |
| 15% FINE FENSUCUE | 0.4-0.6 | 19-26 |
| TOTAL | 3.0-4.0 | 130-175 |
| OR | | |
| 100% TALL FENSUCUE, TURF-TYPE, FINE LEAF | 3.4-4.6 | 150-200 |

- 3.) WHEN USING THE CULTIPACKER OR BROADCAST SEED METHOD, MULCH USING SMALL GRAIN STRAW, APPLIED AT A RATE OF 2 TONS PER ACRE; AND ANCHOR WITH A NETTING OR TACKIFIER. HYDROSEED APPLICATIONS SHOULD INCLUDE MULCH, FERTILIZER AND SEED. COMMON WHITE CLOVER CAN BE ADDED TO MIXTURES AT THE RATE OF 1-2 LBS./ACRE TO HELP MAINTAIN GREEN COLOR DURING THE DRY SUMMER PERIOD. HOWEVER, THEY WILL NOT WITHSTAND HEAVY TRAFFIC. FERTILIZING—FIRST YEAR, (SPRING SEEDLINGS) THREE TO FOUR WEEKS AFTER GERMINATION APPLY 1 POUND NITROGEN/1,000 SQUARE FEET USING A COMPLETE FERTILIZER WITH A 2-1-1 OR 4-1-3 RATIO OR AS RECOMMENDED BY SOIL TEST RESULTS. FOR SUMMER AND EARLY FALL SEEDINGS, APPLY AS ABOVE UNLESS AIR TEMPERATURES ARE ABOVE 85°F FOR EXTENDED PERIOD. WAIT UNTIL HEAT WAVE IS OVER TO FERTILIZE. FOR LATE FALL/ WINTER SEEDINGS, FERTILIZE IN SPRING. RESTRICT USE—NEW SEEDLINGS SHOULD BE PROTECTED FROM USE FOR ONE FULL YEAR TO ALLOW DEVELOPMENT OF A DENSE SOD WITH GOOD ROOT STRUCTURE



CONSTRUCTION SCHEDULE FOR EACH LOT

- OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
- FLAG THE WORK LIMITS
- HOLD PRE-CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.
- INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT.
- INSTALL SILT FENCE
- COMPLETE SITE CLEARING
- ROUGH GRADE SITE, STOCKPILE TOPSOIL, INSTALL DRIVEWAY CULVERT
- EXCAVATE FOR FOUNDATION
- BUILD FOUNDATION
- FRAME HOUSE
- BACKFILL FOUNDATION
- FINISH THE SLOPES AROUND BUILDINGS AS SOON AS ROUGH GRADING IS COMPLETE. LEAVE THE SURFACE SLIGHTLY ROUGHENED AND VEGETATE AND MULCH IMMEDIATELY.
- COMPLETE FINAL GRADING FOR DRIVEWAY AND BUILDING.
- AFTER THE SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
- ESTIMATED TIME BEFORE FINAL STABILIZATION—9 MONTHS.



| REVISIONS | | | |
|-----------|----------|-----|------------------------------------|
| REV. | DATE | BY | DESCRIPTION |
| 2 | 06/08/17 | RBM | REVISED PER PLANING BOARD COMMENTS |
| 1 | 05/01/17 | RBM | REVISED PER PLANING BOARD COMMENTS |

TOWN PROJECT#2015-29
 THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

| | | | |
|----------|---|--|--------------|
| | ENGINEER | TALCOTT ENGINEERING DESIGN PLLC 1 GARDNERTOWN ROAD NEWBURGH, NY 12550 (914) 565-8400 (FAX) (914) 565-4583 TALCOTTDDESIGN12@GMAIL.COM | |
| | DRAINAGE & EROSION DETAILS SUBDIVISION ENTITLED "DOMINGUES II" CANDLESTICK HILL ROAD, SBL: 7-1-1.5 LOT# 5 OF FM# 594-08 TOWN OF NEWBURGH, ORANGE COUNTY, NY | | |
| DATE | SCALE | JOB NUMBER | SHEET NUMBER |
| 10/27/15 | AS NOTED | 15082-CDS | 5 OF 5 |