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HANSHAW ROAD

SPRUCE HEDGE

ROW of MAPLES

16' Driveway

NEW 15" CULVERT

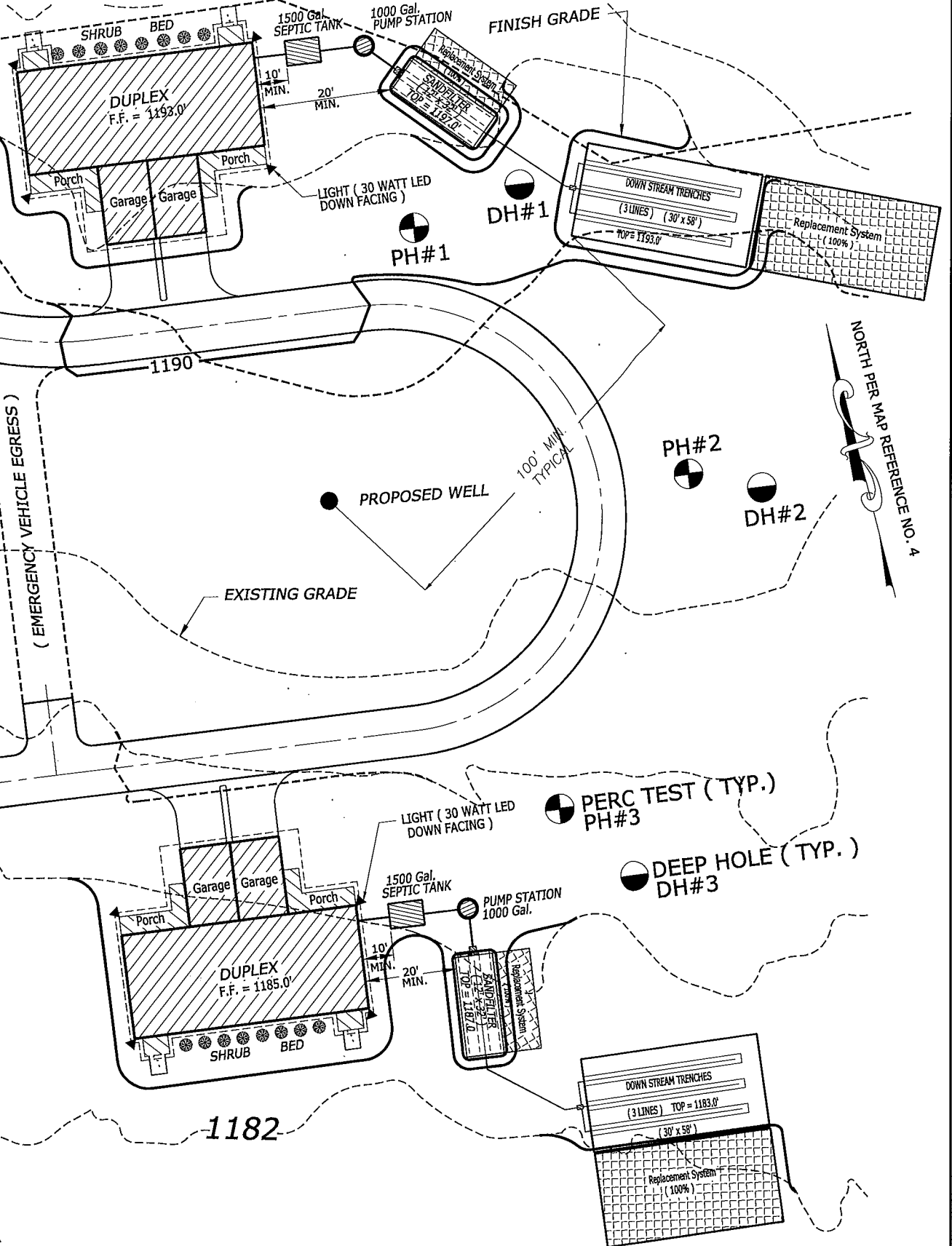
ROW of MAPLES

EDGE OF FIELD

(EMERGENCY VEHICLE EGRESS)

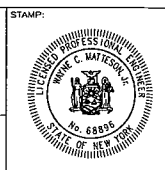
WATERSHED NETWORK
MAPPED WETLAND

100' ± R/W
EASEMENT
IN YSEG
SEE 218/219



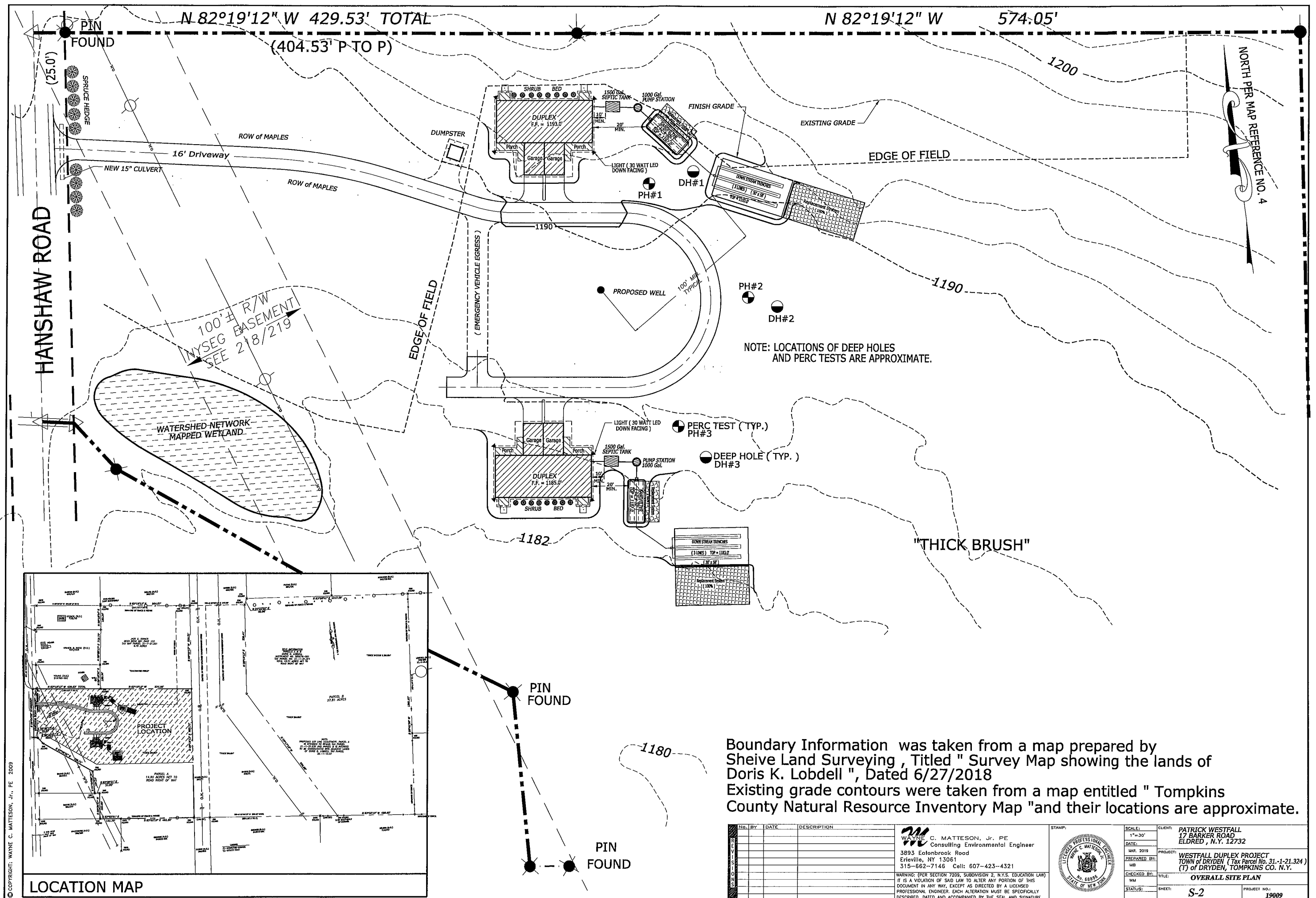
NO.	BY	DATE	DESCRIPTION

WAYNE C. MATTESON, JR. PE
 Consulting Environmental Engineer
 3893 Eatonbrook Road
 Erleville, NY 13061
 315-662-7146 Cell: 607-423-4321



SCALE: 1" = 20'-0"
 CLIENT: **PATRICK WESTFALL**
 17 BARKER ROAD
 ELDRED, N.Y. 12732
 PROJECT: **WESTFALL DUPLEX PROJECT**
 TOWN of DRYDEN (Tax Parcel No. 31,-1-21.324)
 (T) of DRYDEN, TOMPKINS CO. N.Y.
 PREPARED BY: MB
 CHECKED BY: WM
 STATUS: SHEET: **S-1** PROJECT NO.: **19009**

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HANSHAW ROAD

N 82°19'12" W 429.53' TOTAL
(404.53' P TO P)

N 82°19'12" W 574.05'

NORTH PER MAP REFERENCE NO. 4

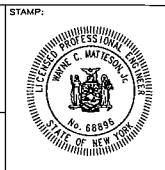
NOTE: LOCATIONS OF DEEP HOLES AND PERC TESTS ARE APPROXIMATE.

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LOCATION MAP

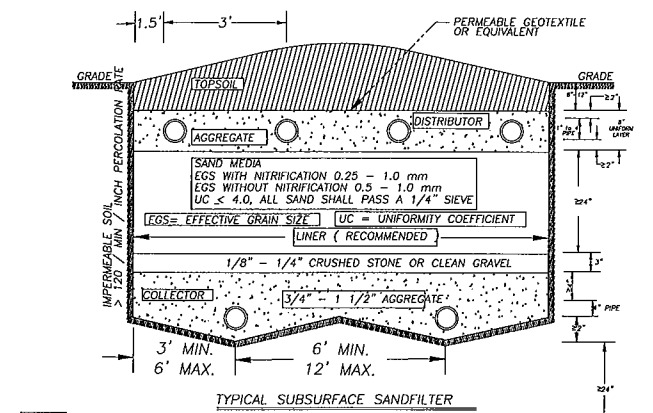
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WAYNE C. MATTESON, JR. PE
 Consulting Environmental Engineer
 3893 Eolonbrook Road
 Erieville, NY 13061
 315-662-7146 Cell: 607-423-4321



SCALE: 1"=30'
 DATE: MAR. 2019
 CLIENT: PATRICK WESTFALL
 17 BARKER ROAD
 ELDRID, N.Y. 12732
 PROJECT: WESTFALL DUPLEX PROJECT
 TOWN OF DRYDEN, (Tax Parcel No. 31.-1-21.324)
 (T) of DRYDEN, TOMPKINS CO. N.Y.
 PREPARED BY: MB
 CHECKED BY: WM
 STATUS: SHEET: S-2 PROJECT NO.: 19009

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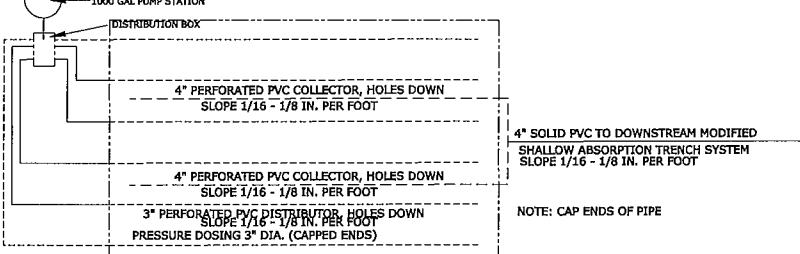
TYPICAL SUBSURFACE SANDFILTER CROSS SECTION VIEW

1500 GAL. CONC. SEPTIC TANK

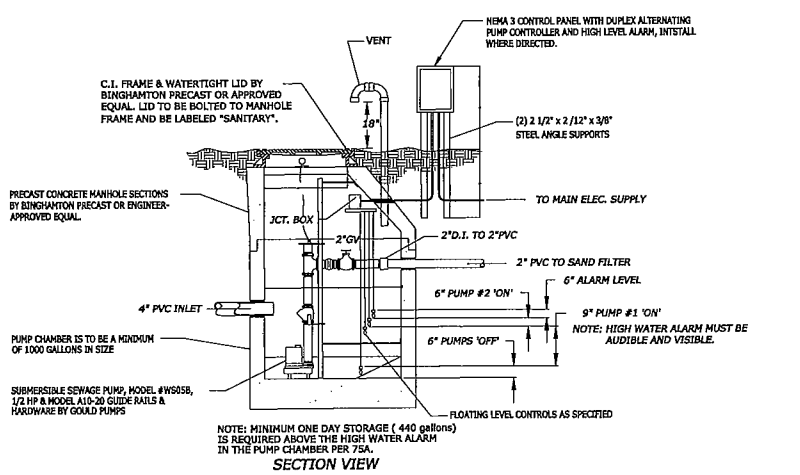
1000 GAL. PUMP STATION

NOTES:

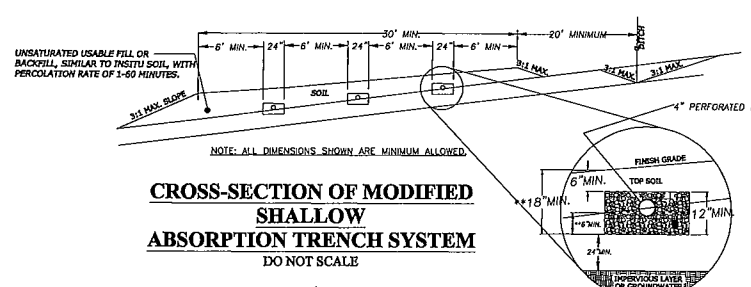
1. A SINGLE CENTER COLLECTOR MAY BE USED WHEN THE FILTER WIDTH HIGH GROUNDWATER DOES NOT EXCEED 12 FEET.
2. COLLECTOR LINES TO BE CENTERED BETWEEN DISTRIBUTOR LINES.
3. GRAVITY DISTRIBUTION MAY BE USED TO APPLY EFFLUENT TO SMALL FILTERS HAVING LESS THAN 300 LINEAL FEET OF DISTRIBUTOR OR LESS THAN 900 SQUARE FEET OF FILTER AREA.



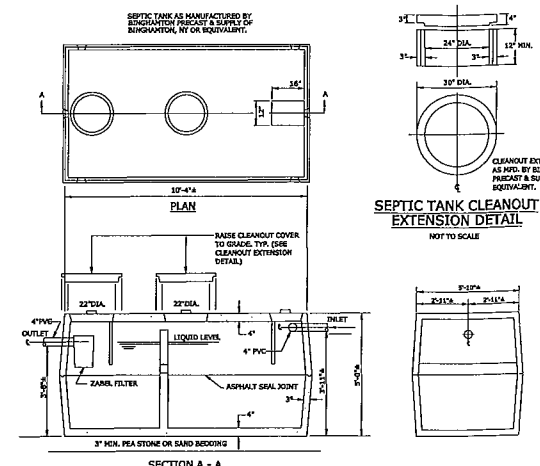
PLAN OF TYPICAL SUBSURFACE INTERMITTENT SAND FILTER
DO NOT SCALE



PUMP CHAMBER



PLAN OF MODIFIED SHALLOW ABSORPTION TRENCH SYSTEM
DO NOT SCALE



PRECAST CONCRETE 1,500 GAL. DUAL-COMPARTMENT SEPTIC TANK
DO NOT SCALE

TOMPKINS COUNTY HEALTH DEPARTMENT
CONDITIONS OF APPROVAL OF PLANS
WITH INDIVIDUAL WATER SUPPLIES AND INDIVIDUAL SEWAGE TREATMENT SYSTEMS

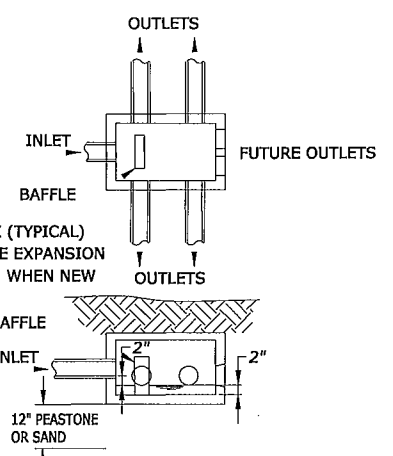
1. The proposed facilities for the individual water supplies and sewage treatment systems shall be installed in conformity with said plans. Any modifications of the approved plans must be submitted by a P.E., R.A. or exempt L.L.S. and accepted by the Tompkins County Health Department.
2. No lot or remaining land (if applicable) shall be subdivided without plans for such re-subdivision being submitted to and approved by the Tompkins County Health Department.
3. The developer shall furnish each purchaser of a lot on which the water supply and/or sewage treatment system were installed a reproduction of the approved plans and an accurate as-built plan depicting all installed sanitary facilities.
4. The developer shall furnish each purchaser of a lot on which there was no water supply and/or sewage treatment system installed with a reproduction of the approved plans and shall notify the purchaser of the necessity of installing such facilities in accordance with the approved plans.
5. The individual sewage treatment systems on these lots shall be inspected for compliance with the approved plans at the time of construction by the Tompkins County Health Department, a P.E., R.A. or exempt L.L.S. Written certification to that effect shall be submitted to the Tompkins County Health Department and the local Building Code Enforcement Officer within 30 days to occupancy.
6. Individual sewage treatment systems and/or water supplies shall no longer be constructed or used for household purposes when public facilities become available. Connection to the public system(s) is required within one year of the system(s) becoming available.
7. The plan approval is limited to 5 years and expires on . . . The Tompkins County Health Department may extend the plan approval based upon development facts and realty subdivision regulations in effect at the time. A new plan submission may be required to obtain a time extension.
8. A copy of the approved plans, (sheets) must be filed with the Tompkins County Clerk prior to offering lots for sale within 90 days of the date of plan approval.
9. That all local and state agency rules and regulations shall be complied with.

NOTES AND CALCULATIONS :

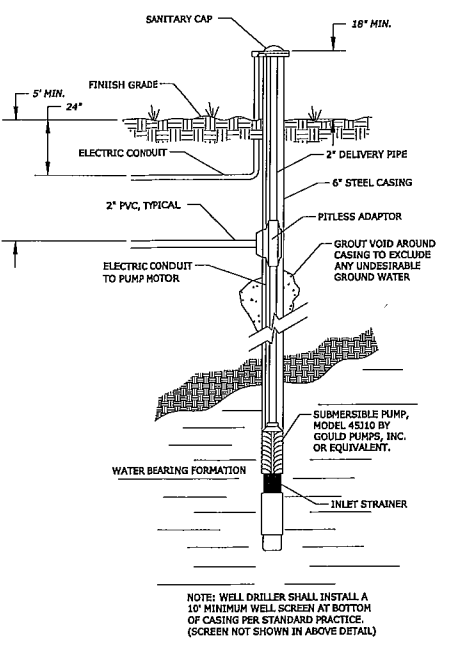
1. A total of 2 duplexes are proposed on the property. Each duplex will contain two, two bedroom units (a total of four bedrooms per structure) . Any proposed changes from this would require an individual approval from the Tompkins County Health Department.
2. Total wastewater flow : 4 bedrooms @ 110 gpd/bedroom = 440 gpd/home .
3. Proposed septic tanks are minimum 1500 gallon, two - compartment tanks. The first compartment of each tank must be capable of handling 60-75% of design flow (min.)
4. Proposed septic tanks shall be a minimum of 10 LF from dwelling.
5. Proposed distribution boxes and sand filters shall be a minimum of 20 LF from dwelling.
6. Sand Filter Specifications :
 - a. Proposed sand filters are 12' x 32' in accordance with NYS Design Handbook for 4 bedroom home. See Generic Lot Layout on Plans.
 - b. Modified downstream absorption trenches shall be 52 LF each based on disposal of 85% of design flow and on a sewage application rate 1.2 gpd/sf in 2' wide trenches.
 - c. Dosing pump shall discharge approximately 70 gal/dose of effluent to sand filter.
 - d. A minimum of one day storage (440 gallons) is required above the high water alarm in the pump chamber per 75A. Each pump chamber shall be 1000 gallons minimum.
7. 100% replacement areas for the sewage treatment disposal systems, including modified downstream absorption trenches , shall be provided and shall not be disturbed or built on.
8. Driveways shall not cross any portion of the proposed wastewater disposal systems.
9. The new sand filter systems shall be constructed a minimum of 100 ft. from the proposed well.
10. There are no active wells or sewage systems located within 100 ft. of the proposed potable water supply for this development.

NOTES:

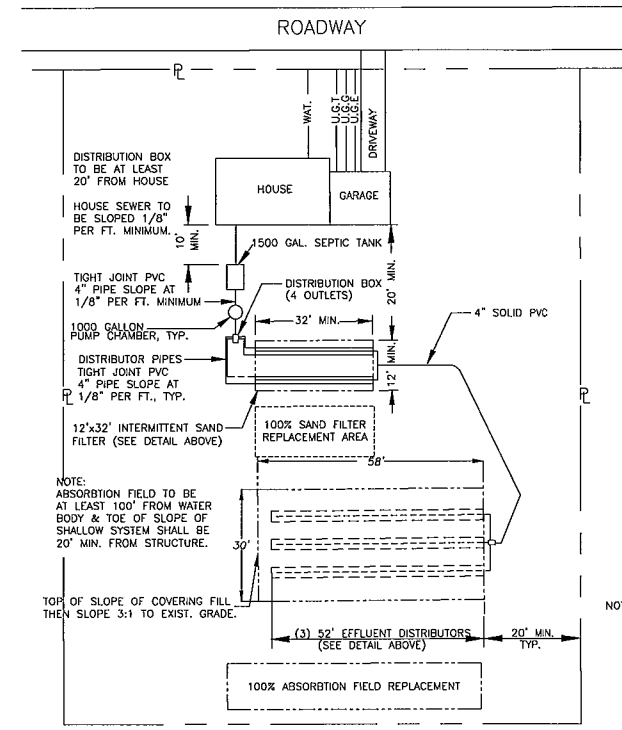
1. INVERT ELEVATIONS OF ALL OUTLETS MUST BE EQUAL.
- PROVIDE LEVELING PLUGS AT ALL OUTLETS.



PRECAST DISTRIBUTION BOX (SAND FILTER SYSTEMS)
DO NOT SCALE



SUBMERSIBLE WELL DETAIL
DO NOT SCALE



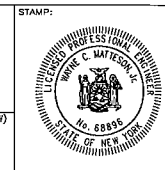
GENERIC LOT LAYOUT
DO NOT SCALE

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SCALE: N.T.S.
DATE: MAR. 2019
CLIENT: **PATRICK WESTFALL**
17 BARKER ROAD
ELDRED, N.Y. 12732

PROJECT: **WESTFALL DUPLEX PROJECT**
TOWN OF DRYDEN (Tax Parcel No. 31-1-21.324)
(T) OF DRYDEN, TOMPKINS CO. N.Y.

CHECKED BY: MB
STATUS: S-3

TITLE: **SEPTIC SYSTEM DETAILS**

SHEET: **S-3**

PROJECT NO.: **19009**