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#### TOWN OF NEWBURGH PLANNING BOARD REVIEW COMMENTS

PROJECT: CASSARA 3 LOT SUBDIVISION

PROJECT NO.: 14-06

PROJECT LOCATION: SECTION 17, BLOCK 5, LOT 32.12

PROJECT REPRESENTATIVE: MERCURIO-NORTON-TAROLLI-MARSHALL

REVIEW DATE: 31 JULY 2014
MEETING DATE: 7 AUGUST 2014

- The Applicant's Representative has addressed our previous comments for the 3 lot subdivision including design of the subsurface sanitary sewer disposal systems which have been reviewed and found acceptable.
- 2. Comments dated 21 July 2014 from the Orange County Department of Public Works have been received.
- 3. County Planning submission is required as project fronts on county roadway.
- 4. Public Hearing is required for the 3 lot subdivision.

Respectfully submitted,

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

Patrick J. Hines Associate



Steven M. Neuhaus County Executive

# ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS

Charles W. Lee, P.E. Commissioner

JUL 28 2014

MCGOEY, HAUSER AND EDSALL CONSULTING ENGINEERS. P.C.

P.O. Box 509, 2455-2459 Route 17M Goshen, New York 10924-0509

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TEL (845) 291-2750

FAX (845) 291-2778

COPY

July 21, 2014

John Ewasutyn, Chairman Town of Newburgh Planning Board 308 Gardnertown Road Newburgh, New York 12550

Re: Antonio Cassara - Subdivision

County Road No. 86 – Fostertown Road Mercurio-Norton-Tarolli-Marshall

Dated: February 2014, last revised: 7-1-14

Sheets: 1 & 2 of 2

RECEIVED

JUL 2 2014

TOWN OF NEWBURGH

Dear Mr. Ewasutyn:

This Department has reviewed the plans for the above referenced Subdivision and has the following comments.

I. The existing driveway to Lot #2 must be upgraded and paved in conformance with the Policy & Standards of the Orange County Department of Public Works.

II. Residential driveways are only required to be paved from the edge of travel lane (white line) for 20 feet with 12" of compacted Item 4 Subbase and 2" of Asphalt Top Course.

III. Stabilized Construction Entrances for residential driveways must be a minimum of 15 feet wide and 50 feet long and constructed in conformance with the Policy & Standards of the Orange County Department of Public Works – revise detail.

IV. Sedimentation control must be provided within the existing drainage ditch along County Road No. 86 downstream of the proposed driveways – show on plan.

If you have any questions please contact this Office at your earliest convenience.

Very Truly Yours

Patrick T. Kennedy, L.S. Senior Engineer

Cc: Charles W. Lee, PE, Commissioner Christopher Viebrock, PE, Deputy Commissioner Joseph Stankavage, PE, Principal Engineer Mercurio-Norton-Tarolli-Marshall



# Mercurio-Norton-Tarolli-Marshall

45 Main Street • P.O. Box 166 Pine Bush, New York 12566 Tel: (845) 744-3620

Fax: (845) 744-3805

Email: mnt-pc@mnt-pc.com

Alphonse Mercurio, L.S. William G. Norton, L.S. (NY & PA) John Tarolli, P.E., L.S.

Lawrence J. Marshall, P.E. Kenneth W. Vriesema, L.S.

July 17, 2014

Planning Board Town of Newburgh PO Box 247 Wallkill, New York 12589-0247



Job No. 3766 Re:

> Lands of Antonino Cassara Tax Map Parcel: 17-5-32.12

Town of Newburgh, Fostertown Road

3-Lot Residential Subdivision Newburgh Project No. 2014-06

**Dear Board Members:** 

Enclosed please find the following items in reference to the above-captioned project:

- 1.) Twelve (12) copies of the revised Subdivision Plan
- 2.) One (1) copy of the Project Narrative

The following comments are in response to a review by Patrick Hines of McGoey, Hauser and Edsall Consulting Engineers, P.C. dated March 27, 2014:

- 1. No response required.
- 2. As per the revised Narrative, the required variance of 34.6' to the existing dwelling on Lot 2 was granted by the Town of Newburgh Zoning Board of Appeals on June 26, 2014.
- 3. A copy of the subdivision plan was sent to the Orange County Department of Public Works (OCDPW) for review on July 3, 2014. As of the date of this letter, no response has been received.
- 4. The proposed well on Lot 3 has been relocated in accordance with Orange County Department of Health (OCDOH) and New York State Department of Health (NYSDOH) requirements. In accordance with the above-mentioned regulations, a well requires a 200 foot separation to a sewage disposal system when located both downhill and in the direct path of surface runoff. The proposed well on Lot 3 is not located in the direct downhill path of runoff and is therefore not required to meet the 200 foot separation. The proposed well exceeds the 100 foot minimum separation.
- 5. Percolation test data has been included on sheet 2.
- 6. The Sewage Disposal System Requirements Table on sheet 2 has been revised to specify the proposed two-family house contains one (1) 3-bedroom unit and one (1) 1-bedroom unit.
- 7. The buildable area for each lot has been added on sheet 1.

Please place this project on the August 7<sup>th</sup>, 2014 meeting agenda for discussion

If you have any questions or concerns, please feel free to contact me at (845) 744-3620 or by email at <u>zpeters@mnt-pc.com</u>.

Sincerely,

Zachary A. Peters, P.E.

ZP/zp Enc.

cc: Antonino Cassara Patrick Hines (w/ enc.)

45 Main Street • P.O. Box 166 Pine Bush, New York 12566 Tel: (845) 744-3620

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# Project Narrative

For

### Cassara Subdivision

Fostertown Road Town of Newburgh Orange County, New York

> Prepared for: Antonino Cassara 442 Fostertown Road Newburgh, NY 12550 (845) 239-6608

> > Prepared by:

Mercurio-Norton-Tarolli-Marshall, P.C.

P. O. Box 166 45 Main Street



Prepared:
March 11, 2014
Revised:
July 16, 2014

#### A. Description of Project Site

The Cassara Subdivision is a proposed three (3) lot residential subdivision. The project involves the creation of one (1) two-family dwelling, one (1) single-family dwelling, and the one (1) existing single-family dwelling. The project is located on the easterly side of Fostertown Road in the Town of Newburgh, County of Orange, State of New York. The site is designated as tax map parcel: Section 17, Block 2, Lot 31.12. The project area is 4.671 acres located in the Rural Agriculture (AR) zoning district. The project parcel is designated as Lot 2 on Filed Map No. 119-93 filed in the Orange County Clerk's Office.

#### B. Description of the Project

Lot 1, the proposed two-family dwelling, has an area of 100,407 square feet, greater than the 100,000 square foot minimum lot size required for two-family residential lots. Lot 2, the existing single-family dwelling, has an area of 47,201 square feet. Lot 3, the proposed single-family dwelling, has an area of 55,878 square feet. Both lots are larger than the 40,000 square foot minimum lot size required for single-family residential lots. All proposed lots will meet the required zoning setbacks.

The sizes of the buildable area within the setbacks are: Lot 1-37,577 s.f., Lot 2-16,266 s.f., and Lot 3-11,619 s.f.. The buildable floor area for Lot 1 exceeds the 17,500 s.f. minimum area required for two-family dwellings. The buildable area for Lots 2 and 3 exceeds the 10,000 s.f. minimum area required for single-family dwellings.

Lot 2 contains an existing dwelling and barn. There is an additional barn and shed in disrepair that will be removed. The remainder of the project site is currently vacant and consists mostly of woods and brush. There are no wetlands or floodplains located within the project site.

#### C. <u>Description Proposed Improvements</u>

Lot 2 will access Fostertown Road by the existing shale driveway. Lots 1 and 3 will access Fostertown Road by individual driveways located 172 feet north and 172 feet south of the existing driveway, respectively. The sight distances for the driveways exceed the AASHTO recommended stopping sight distances for the posted speed limit.

The single-family dwelling on Lot 2 is currently served by an existing well and sewage disposal system. The two proposed dwellings will also be served by individual wells and sewage disposal systems. The sewage disposal systems have been designed in accordance with the current Orange County Health Department standards.

#### D. Stormwater Management

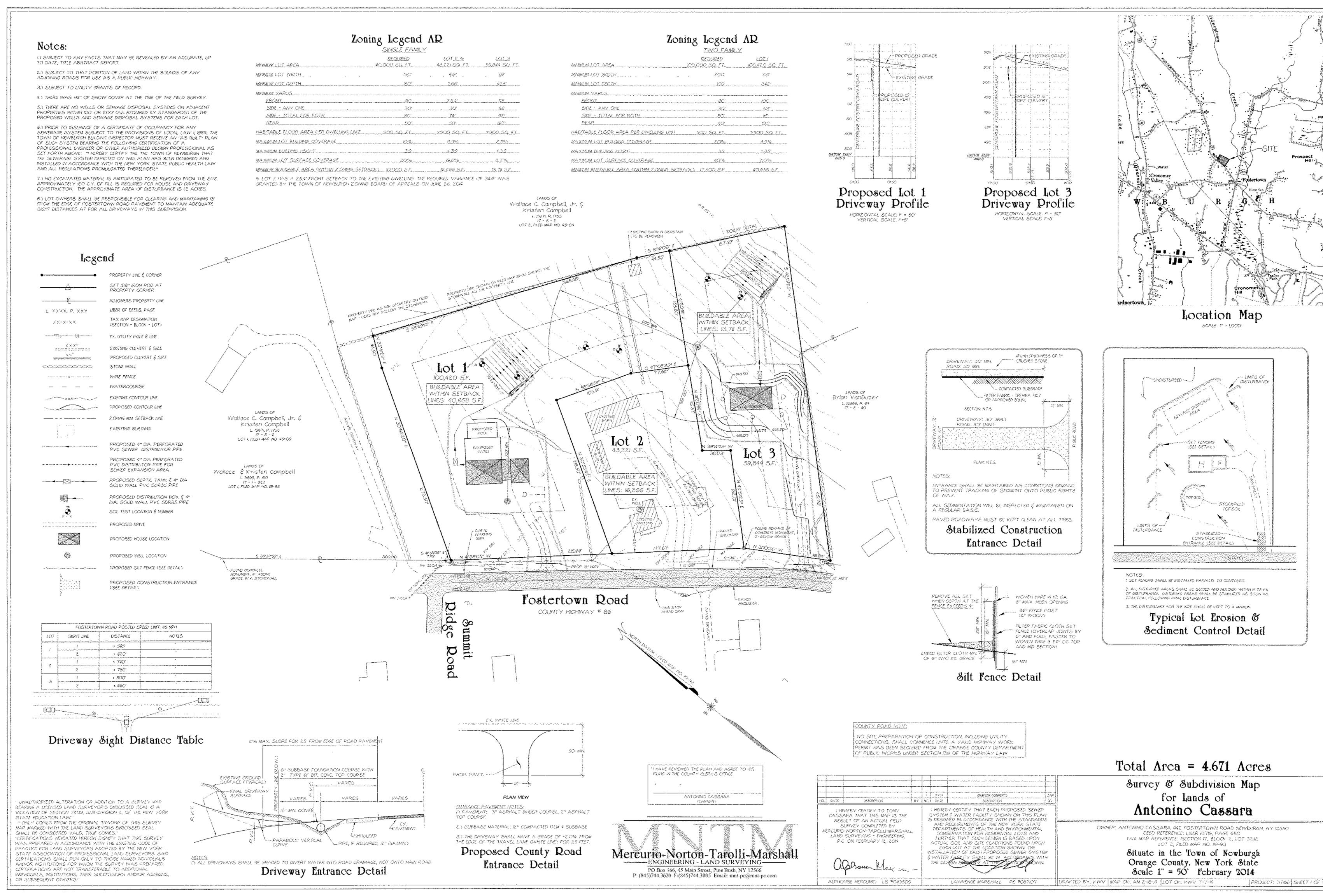
The total proposed area of disturbance is approximately 1.2 acres. Erosion and sediment control measures will be installed during construction to prevent the transportation of sediment off-site. Silt fencing will be installed below disturbed areas and stabilized construction entrances will be installed at each of the proposed driveway entrances. Erosion and sediment control measures will be maintained at all times during construction.

#### E. Impact of the Proposed Project

The project will result in the creation of two (2) additional tax parcels. Under current Town of Newburgh zoning regulations, specifically the requirements for minimum lot size and width, no further subdivision of the proposed lots is possible.

#### F. Zoning Variance

Lot 2 has a front yard setback of 25.4 feet to the existing single-family dwelling. In accordance with Town of Newburgh Zoning Code §185-18-C.4(B), lots with frontage on a County Road require a front yard setback of 60 feet. The required variance of 34.6 feet was granted by the Town of Newburgh Zoning Board of Appeals on June 26, 2014.

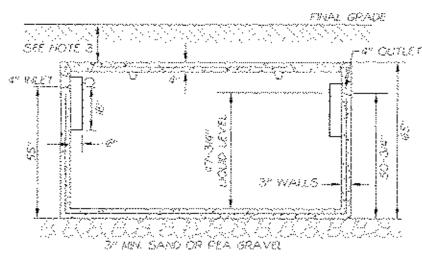


Deep Soils Testing Results

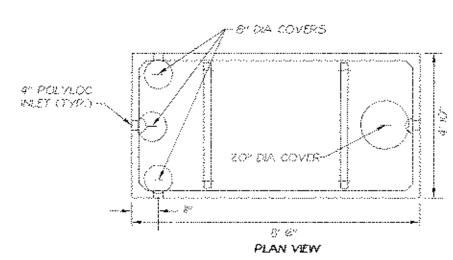
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Percolation Testing Results

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	PLN 4 ELAPSED TAME:	k8:.34		15:89	250	
	RUN 5 BLAFSED TME:	20:25				
	PLIN 6 SLAPSED TIME:	ZO:43		**************************************		
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CROSS SECTION VIEW



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2. WEET BAFFLE CAN BE RELOCATED TO THE SIDE

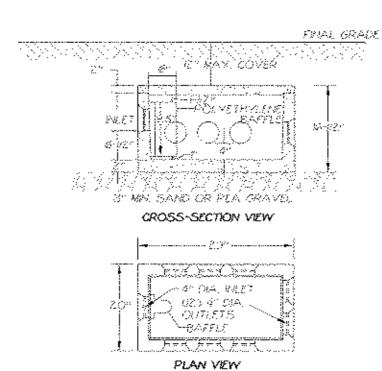
 $\delta_{\rm c}$  if cover exceeds  $R^2 \gamma_{\rm c}$  a riser must be used to allow access.

CONCRETE MINIMUM STRENGTH. 4,000 P.S.: AT ZE DAYS STEEL REINFORCEMENT: \$" X \$" XIO GA, STEEL WIRE MESH. #4 REBARI APOUND PERIMETER CONSTRUCTION JOINT: SEALED WITH BUTYL RUBBER CEMENT

# Typical Precast 1,000 Gallon Concrete Septic Tank

MOT TO SCALE

AS MANUFACTURED BY PWOODARDS CONCRETE PRODUCTS, INC., BULLVILLE, N.Y. MODEL STHOOG FOR APPROVED EQUAL:



DISTRIBUTION BOX NOTES: IN THE FROTED OF ALL LIFES LEAVING THE DISTRIBUTION BOX. SHALL BE LAID AT IDENTIKAL SLOPE. FLOW CQUALIZEPS : SHALL BE USED TO ASSURE EQUAL FLOW TO EACH OUTLET. PIPE, YEARLY CHECKING AND AGRESTMENT IS PLOCKMENDED.

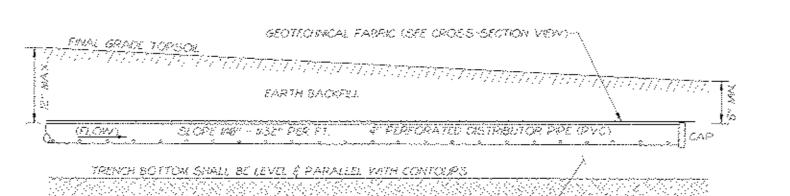
2) ALL PIPE JOINTS ONLET \$ CUTTET) SHALL BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.

-3) FLOW LOUAUZERG MUST BE USED.

4) OUTLET PAVERTS SHALL BE SET AT THE SAME ELEVATION. 5) OUTLETS MUST BE USED IN A MAKINER TO ALLOW . ACCESS TO THE NECESSARY NUMBER OF OUTLETS FOR THE

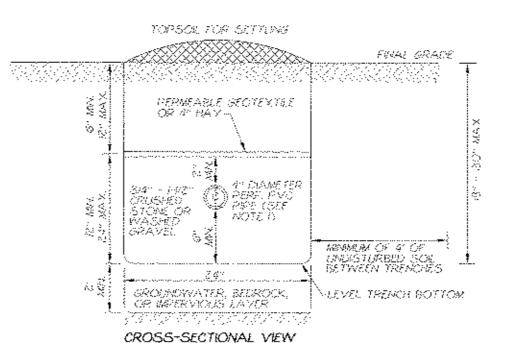
## Typical Precast Concrete Distribution Box

AS MANUFACTURED BY "WOODARDS CONCRETE PRODUCTS, WOIL BUILDINGS, MYS MODEL DB-9 (OP APPROVED FOUAL) NOT TO SCALE



ORUSHED STONE OR WASHED GRAVELS

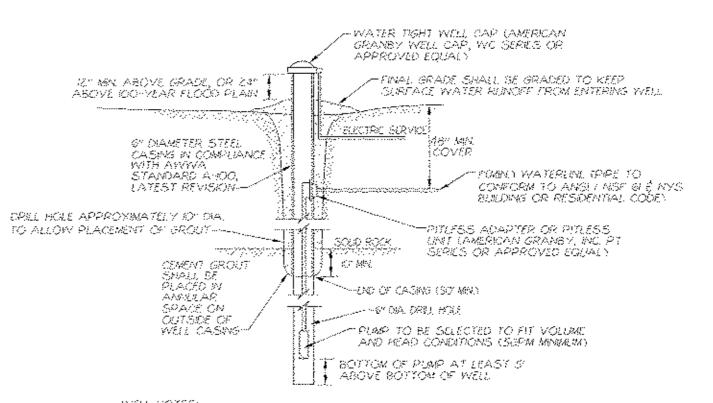
#### KS87 (8055-52070M VXW) TRENCH PROFILE



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3) THE END OF FACH LATERAL SHALL BE CARPED.

# Absorbtion Trench Detail



WELL MOTES:
1) WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH TABLE 8 OF THE N.Y.S. DEPARTMENT OF HEALTH APPENDIX 5-8 "STANDARDS FOR WATER WELLS." 2.) THE WELL CAP MUST BE A MINIMUM OF C FEET ABOVE THE 100 YEAR FLOOD -ELEVATION.

Well Detail

## Notes:

IN PIPE JOINTS TO BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT,

- 2) ALL 4" OUTLET PIPES (SOLID WALL) LEAVE DISTRIBUTION BOX AT SAME ELEVATION ON A MIMMUM SLOPE OF 1/6" PER FOOT UP TO A DISTRIBUTOR LATERAL.

3) SEVVAGE DISPOSAL SYSTEMS LOCATED OF NECESSITY UPGRADE IN THE GENERAL PATH OF DRAINAGE TO A WELL MUST BE SPACED 2001 OR MORE AWAY.

4) NO DRIVEWAY, ROADWAY, PARKING AREA OR ABOVE GROUND SWIMMING POCL IS TO BE CONSTRUCTED OVER ANY PORTION OF THE SEWER SYSTEM. HEAVY EQUIPMENT SHALL BE KEPT. OUT OF THE ABSORPTION FIELD AREA.

5) ALL DISTRIBUTOR LINES (PERFORATED) SHALL BE OF EQUAL LENGTH (60' MAX.).

63 ALL TREES TO BE CUT É REMOVED FROM SEWAGE DISPOSAL AREA IN A MANNER THAT WILL NOT DISTURB THE VIRGIN SOIL LAYER.

7) MAXIMUM GROUND SLOPE OF THE FIELD AREA SHALL NOT EXCEED 15%.

- B) NO BASEMENT FIXTURES ARE PERMITTED WITHOUT A SPECIAL DESIGN FOR SEWAGE DISPOSAL.

9) NO COMPONENT PART OF ANY SEWAGE DISPOSAL SYSTEM SHALL BE LOCATED OR MAINTAINED WITHIN 1001 OF ANY SPRING, RESERVOIR, BROOK, MARSH OR ANY OTHER BODY OF

- IO) NO ROOF, CELLAR OR FOOTING DRAINS ARE TO BE DISCHARGED IN THE SEWAGE DISPOSAL SYSTEM

ID SPEED LEVELERS SHALL BE USED FOR SYSTEMS WHOSE SIDE SLOPES ARE BETWEEN IO-15% AND ARE RECOMMENDED FOR ALL SYSTEMS.

13) SLOPE BETWEEN SEPTIC TANK OR PUMPING CHAMBER AND THE HOUSE SHALL BE POSITIVE AND UNINTERRUPTED, AS TO ALLOW SEPTIC GASSES TO DISCHARGE THROUGH THE STACK VENT.

13) HOUSE SEWER PIPE RUNNING FROM THE HOUSE TO THE SEPTIC TANK MUST BE LAID ON SLITABLY COMPACTED EARTH OR VIRGIN SOIL WITH THE FIRST WATERTIGHT JOINT LOCATED AT LEAST 3' FROM THE HOUSE.

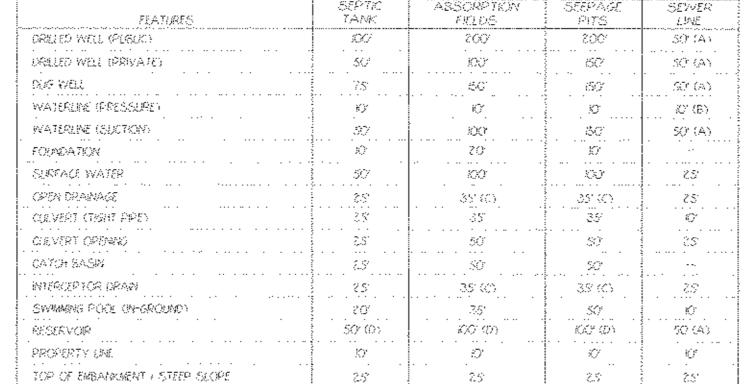
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Generic Plot Plan

🧚 THE IGENERIC PLOT PLANTIS INTENDED FOR ILLUSTRATION PLAPOSES ONLY, FOR SPECIFIC DESIGN INFORMATION ON THE PROPOSED SEWAGE DISPOSAL SYSTEM, SEE THE SEWAGE DISPOSAL SYSTEM REQUIREMENTS TABLE, DETAILS, AND NOTES ON THIS SHEET.

SCWCP ROSERVE AREA . . J. . SCWER ROSERVE ARCA

PROPOSED SEWAGE DISPOSAL SYSTEMA



KAD IF CAST OR DUCTLE IRON PIPE, LOCATED BELOW THE PROST ZONE, WITH TIGHT JOINTS AND MOT SUBJECT TO

(B) WATER (PRESSURE) AND SEWER LINES MAY BE IN THE SAME TRENCH OF WATER LINE IS PLACED ON AN UNDISTURBLU BENCH OR SHELF SO THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST BY HIGHER THAN THE TOP OF THE SEWER MAIN, AND THE SEWER MAIN IS NOT SUBJECT TO SETTLING, VIBRATION, SUPERSPOSED LOADS, OR

ICCLE BOTTOM OF DRAIN IS ABOVE FINISHED GRADE AT LEADING FACILITY, OTHERWISE SCI.

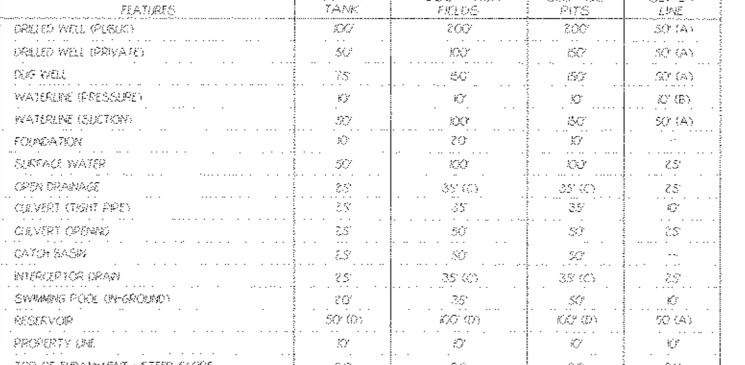
(D) FOR A PUBLIC WATER SUPPLY RESERVOIR, KOT TO SEPTC TAME AND 2001 TO ASSORPTION FIELD OR SEEPÂGE.

UC) WHEN SEWAGE TREATMENT GYSTEMS ARE LOCATED IN COARSE GRAVEL OR UPGRADE AND IN THE GENERAL PATH OF DRAMAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM SHALL BE AT LEAST 200 AWAY FROM

Minimum Separation Distances From Existing Or Proposed Features

OF FOR ALL SYSTEMS INVOLVING THE PLACEMENT OF FILL MATERIAL, SEPARATION DISTANCES ARE MEASURED FROM

AS PER NEW TORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DESIGN STANDARDS FOR WASTEWATER TRAITMENT WORKS - INTERMEDIATE SIZED SEWERAGE FACILITIES!, 1968 ZUITION



H<u>commiy road note:</u> NO SITE PREPARATION OR CONSTRUCTION, INCLIDING UTILITY CONNECTIONS, SHALL, COMMUNCL LINTE, A VAUD HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS LINGER SECTION AND OF THE HIGHWAY LAW.



Sewage Disposal System Requirements

007 NEWSER	CESION STABULEO PURCCLAHON RATE (MIN)	7 VPE OF SVS7E# %	OESIAN FLOW RATE (GPD)		PROPOSED LENGTH OF ARSORPTION TREACH (LF.)	SEWAGE DISPOSAL SYSTEM DESIGN	SEPTIC TANK SIZE (GALLONS)
,	82:00	A.f.	490 %%	367	365	7 @ 55 EE.	1,250
3	16:00	K.T.	440	35	350	6 % 55 UF.	(255)

# A.T. = ABSORPTION TREMOH SYSTEM 1941 THE PROPOSED TWO-FAMILY DWELLING ON LOT / CONTAINS A THREE (3) REDROOM UNIT AND A ONE OF BEDROOM LINE

51694558 COMMONO CHESEBY CERTIFY THAT EACH PROPOSED SEWER! SYSTEM É WATER FACEITY SHOWN ON THIS PLAN S DESIGNÉD IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE NEW YORK STATE DEPARTMENTS OF HEALTH AND ENVIRONMENTAL CONSERVATION FOR RESIDENTIAL LOTS AND FURTHER THAT SUCH DESIGN IS BASED UPON ACTUAL SOR AND SITE CONDITIONS FOUND LPON EACH LOT AT THE LOCATION SHOWN THE NSTALLATION OF EACH PROPOSED SEWER SYSTEM S WATER FACILITY SHALL BE IN ACCORDANCE WITH

# Well & Sewage Disposal System Details for Lands of Antonino Cassara

OWNER: ANTONINO CASSARA 442 FOSTERTOWN ROAD NEWBERGH, NY 12550 DEED REFERENCE: LIBER 18716, PAGE 680

TAX MAP REFERENCE: SECTION 17, BLOCK 2, LOT 32.12 LOT 2, FILED MAP NO. 89-93 Situate in the Town of Newburgh

Orange County, New York State February 2014 ₿ORAFTED BY: ZAP

PROJECT: 3766 SHEET 2 OF 2