

RICHARD D. MCGOEY, P.E. (NY & PA) WILLIAM J. HAUSER, P.E. (NY , NJ & PA) MARK J. EDSALL, P.E. (NY, NJ & PA) MAIN OFFICE 33 Airport Center Drive Suite 202 New Windsor, New York 12553

(845) 567-3100 fax: (845) 567-3232 e-mail: mheny@mhepc.com

TOWN OF NEWBURGH PLANNING BOARD REVIEW COMMENTS

PROJECT:CASSARA 3 LOT SUBDIVISIONPROJECT NO.:14-06PROJECT LOCATION:SECTION 17, BLOCK 5, LOT 32.12PROJECT REPRESENTATIVE:MERCURIO-NORTON-TAROLLI-MARSHALLREVIEW DATE:31 JULY 2014MEETING DATE:7 AUGUST 2014

- 1. 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

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 JUL 2, 2014 TOWN OF NEWBURGH PLANNING BOARD

RECEIVED

FAX (845) 291-2778

ORANGE COUNTY

Charles W. Lee, P.E. Commissioner

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

www.orangecountygov.com

16

JUL 2 8 2014

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

Dear Mr. Ewasutyn:

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

TEL (845) 291-2750

- 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, Senior Engineer

Cc: Charles W. Lee, PE, Commissioner Christopher Viebrock, PE, Deputy Commissioner Joseph Stankavage, PE, Principal Engineer 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

Mercurio-Norton-Tarolli-Marshall

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



Re: Job No. 3766

Lands of Antonino Cassara Tax Map Parcel: 17-5-32.12 Town of Newburgh, Fostertown Road <u>3-Lot Residential Subdivision</u> **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 7th, 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.) Mercurio-Norton-Tarolli-Marshall

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

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

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

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



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. Description Proposed Improvements

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.

	<u>Silvale Famuly</u>					
MEMLIM LOT AREA		107 2 A 44.02 SQ FT				
MMMUM LCT WIDTH	80°					
MANNAL KOT DEPTH		266				
MANUM_XARUS						
<u> 1800 </u>						
<u> SDE - ANY ONE</u>						
<u>SIDE - TOTAL FOR BOTH</u>		74				
<u>REAR</u>						
MARITARLE ELCOR, AREA, PER, DWELLONG, LANE	<u>900.50 FT</u>	2200.SQ_FT.				
WAXMUMILOI BURDAR COVERAGE						
MAX880M BUELONG HERRET						
MAXIMIM LOT SUSEACE COVIERAGE						
MANMEN BULDABLE AREA (VATUR ZOANKE SETBA	<u>(0,000,55</u>	16,266, <u>55</u> ,				
N LOT 2 HAS A 25.4 FRONT SETBACK TO THE I ORANTED BY THE TOWN OF NEWBURGH ZOWING						



TEST HOLE #	A	В	C	Ð	ξ	F	775
TEGUNG DATE:	H2H14	2E14	F 8F M	EZEM	J- 21-44	H2H1	TE S
TESTER	ZAP	ZAP	ZAP	ΖΑΡ	ZAP	τ.αρ	059
DEEP TEST SOIL LOG WO WATER OR POCK WESS SO NOTED	CTTTTOPSOL TTTT ZTTTT SRANULAR SUT LOAM SUT LOAM WITH SOME REPARLE SHALL STTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	C TOPSOL TOPSOL TOPSOL C GRANULAR SUITIOAM WITH SOME PIPPABLE SHALE SHALE SHALE SHALE SHALE SHALE	C' TOPSON 7	C' TOPSOL C' GRANELAR 3' GRANELAR 3' SL7 LOAM MITH SOME RIPPABL C' SHALL 5' GRANELAR 1' SHALL 5' GRANELAR 1' SHALL 5' GRANELAR 1' SHALL 1' SHALL	7 TOPSOL 7 GRANLAR 7 SLT LOAM 7 GRANLAR 7 GRANLAR 7 GRANLAR 7 GRANLAR 7 SLT LOAM -	0 JOPSOL 2 SUT LOAM 5 PEPEABLE 3 SWALE 4 SWALE 5 STON 6 T	PERCOLATION TEST RESULTS (ALL TESTNG COMPLETED WITH A STOPWATCH & LLAPSED MAG
NOTES:							į



NOTES: ℓ all PPE JOINTS ONLET ζ CUTLET PIPES) SHALL. BE SEALED WITH ASPRALING MATERIAL OR LOUVALENT. 2. MEET BAFFLE CAN BE RELOCATED TO THE SIDE. 3. IF COVER EXCEEDS 10% A RISER MUST BE USED TO ALLOW ACCESS.

Plan vew

CONCRETE MINIAUM STRENGTH. 4,000 P.S.I AT 28 DAYS STEE REMPORCEMENT: \$" X \$" XIO GA, STEEL WIRE MESH 14 REBAR APOUND PERMETER CONSTRUCTION JOINT. BEALLO WITH BUTYL RUBBLE CEMENT

Typical Precast 1,000 Gallon Concrete Septic Tank AS MANUFACTURED BY WOODARDS CONORCTE PRODUCTS, NO., BULLVILLE, N.Y. MODEL STHOOD FOR APPPOVED EQUALS

NOT TO SCALL

3ST 5654 ST 5884 PROPOSEU wet. Q WELL GO ME WAY WATERLINE PRE TO CONFIRM TO ANSU I NOT IN E MYS BUILDING OR RESDENTIAL 4 horas IS MIN 157 2660 😁 2 **- -** // -002 PROPOSED BULDING OR DWELLING 4" SCH. 00 OR CASTY RON SOLD WALL PIPE AT VET PER -8001 (MNL) SLOPEj septio 1.AAM # PVC SOLID WALL PPE AT DET PER FOOT (ANN) SLOPE----POISTRISPRON SCX. <u>4: PERFORATED</u> DISTRIBUTOR PRE <u>4" PERFORATED</u> INSTRUCTOR PIPE e nak SEWER RESERVE AREA PROPOSED SEWAGE DISPOSAL SVSTORE Generic Plot Plan * THE GENERIC PLOT PLAN IS INTENDED FOR ILLUSTRATION PLAPOSES ONLY, FOR SPECIFIC DESIGN INFORMATION ON THE PROPOSED SEWAGE DISPOSAL SYSTEM, SEE THE SEWAGE DISPOSAL SYSTEM

REQUIREMENTS YABLE, DETAILS, AND NOTES ON THIS SHEET.





FROST ACTION

W. WIEN SEWAGE TREATMENT SYSTEMS ARE LOCATED IN COARSE GRAVEL OR UPGRADE AND IN THE GENERAL PATH OF CRAINAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM SHALL BE AT LEAST 200 AWAY FROM THE WELL. ON FOR ALL SYSTEMS INVOLVING THE PLACEMENT OF FLE MATERIAL, SEPARATION DISTANCES ARE MEASURED FROM

THE TOP OF THE STOPP OF THE FULL

Minimum Separation Distances From Existing Or Proposed Features AS PER NEW TORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DESISN STANDARDS FOR WASTEWATER TREATMENT WORKS - INTERMEDIATE SIZED SEWERAGE FACELITIES", ISEB ZOTION

ercolation Testing Results

		×				
ESTING DATE:		Α	8	Č	f 07-26-13	
		3-26-6	07-6-8	07-26-3		
59 M	TESTER:	24" - 150N	24" - 16ON	1 - 291 - 120N	24" - LEON	
	RUN) FLAPSED TWE:	677	.48	10:40	1.57	
OPWATCH & LLAPSED TR ARE IN MWATCS	RUN 2 FLAPSED 7981:	K):52	1.58	4:24	2:02	
	RUN 3 ELAPSED TWE:	15:25	2:0	14:.SC	2:07	
	PUN G ELAPSED TARE:	AK.34		<i>151</i> 8	2:0	
	RUN 5 ELAPSED TME:	20:25				
	PUNIG SLAPSED THE	20:43				
÷	PUW T ELAPSED TWE:	2719				
	STABLESO RATE	22:(X)	5:00	18:00	3:00	



20 DO NOT INSTALL TRONCHES IN MET GOR. TRONCH GIDES AND SOTTOMS SHALL BE RAPED PRICE TO INSTALLATION OF SAMO. 35 THE END OF EACH LATERAL SHALL BE CARPED.



	SEPTIC TANK	ASSORPTION FILLDS	SEEPAGE PITS	SEWER LINE
	<i>90</i> 7	200	2007	SO' (A)
	50	100 ²	507	se (a)
	75	50°	60	90° (A)
	67	i i i i i i i i i i i i i i i i i i i		(C' (B)
		100	\$C	501 (A)
	N N	20	0	
		800	00	25
	25	351(0)	35'(C)	25
	25	35	35	¢.
	25	50		25
	(ES	SO	× 1	
	25	35 (0)	38.05	2.5
	20	35'	50	ю К
	507 (0)	<i>60</i> 100	6000	50 (A)
	10	Ð	×7	U.
)PE	25	25	25	251

(A) If CAST OR DUCTLE RON PIPE, LOCATED BELOW THE FROST ZIONE, WITH TIGHT JOINTS AND NOT SUBJECT TO

(B) WATER (PRESSURE) AND SEWER UNES MAY BE IN THE SAME TRENCH OF WATER DNE IS PLACED ON AN UNDISTURBED BENCH OR SHELF SO THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST IS" HIGHER THAN THE TOP OF THE SEWER MARY, AND THE SEWER MAIN IS NOT SUBJECT TO SETTLING, VIBRATION, SUPERIMPOSED LOADS, OR

ICS & BOTTOM OF DRAM IS ABOVE PRISHED GRADE AT LEADENG FACETY, OTHERWISE SCI.

IONFOR A PUBLIC WATER SUPPLY RESERVOR, KONTO SEPTC TAME AND 2001 TO ABSORPTION FRED OR SEEPÁGE



PO Box 166, 45 Main Street; Pine Bash, NY 12566 P: (845)744.3620 F:(845)744.3805 Email: mnt-pc@mnt-pc.com



2.) THE WELL CAP MUST BE A MINIMUM OF E PEET ABOVE THE 100 YEAR FLOOD ELEVATION



Notes:

IN PIPE JOWITS TO BE SEALED WITH ASPHALING MATERIAL OR EQUIVALENT,

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

3) SEWAGE 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 POCH 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 (GO' MAX.).

53 ALL TREES TO BE CUT & REMOVED FROM SEWAGE DISPOSAL AREA IN A MANNER THAT WELL NOT DISTURB THE VIRGIN SOL LAYER.

7) MAXMUM GROLAD 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 100' OF ANY SPRING, RESERVOIR, BROOK, MARSH OR ANY OTHER BODY OF WATER

IND 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 10-15%

AND ARE RECOMMENDED FOR ALL SYSTEMS. 12) SLOPE BETWEEN SEPTIC TANK OR PLIMPING 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 SUITABLY COMPACTED EARTH OR VIRGIN SOL, WITH THE FIRST WATERTIGHT JOINT LOCATED AT LEAST 3' FROM THE HOUSE.

Sewage Disposal System Requirements

0.07 20.44852	DESKIN STABLIZEO PERCOLANON RATL MINN	7 <i>495 OF</i> SVS76# %	DESIGN FLOW RATE (GPD)	MIN LENGTH OF ABSCRPTION TREACH (LF.)	PPOPOSED LENGTH OF ARSCRPTION TREACH U.F.)	SEWAGE DISPOSAL SYSTEM DESIGN	SEPTIC TANK SEPTIC GALLONG)
1	82:00	A.I.	490 **	367	365	7 e 55 ir.	4850
3	16:00	4.T.	440	35	350	6 @ 55 LF.	(255)

4 A.T. + ABSORPTION TRENCH SYSTEM . 14 THE PROPOSED TWO-FAMELY DWELLING ON LOT / CONTAINS A THREE (3) REDROOM UNIT AND A ONE IN BEDROOM UNIT.

7-+4 2/412	ERENTS DESCRIPTION	2.A2 2.A2 *Y	Well & Sewage Disposal System Details for Lands of
SYSTEM & V S DESIGNED	ERTEY THAT EACH PROPOSED SEV VATER FACLITY SHOWN ON THIS P IN ACCORDANCE WITH THE STAND	NROS	Antonino Cassara
DEPARTME CONSERV FURTHER ACTUAL SC EACH W	REMENTS OF THE NEW YORK STA NTS OF HEALTH AND ENVIRONMENT YATION FOR RESIDENTIAL LOTS AN THAT SUCH DESIGN IS BASED UPO XL AND SITE CONSTRONS FOUND LI OT AT THE LOCATION SHOWN, THE	AL 5 N 2011	OWNER: ANTONNO CASSARA 442 FOSTERTOWN ROAD NEWBURGH, NY 12550 DEED REFERENCE: LIBER 13716, PAGE 680 TAX MAP REFERENCE: SECTION 17, BLOCK 2, LOT 32.12 LOT 2, FILED MAP NO. 10-93
WATER FA	IN OF EACH PROPOSED SEWER SY OLMY SHALL SE IN ACCORDANCE I SHOWN & AT THE LOCATION SHO	WATH	Situate in the Town of Newburgh Orange County, New York State February 2014
<u>;</u> ,4	WRENCE MARSHALL PE POSTIOT		FTED BY: ZAP PROJECT: 3766 SHEET 2 CF 2