



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

PROJECT NAME: AFONSO
PROJECT NO.: 22-11
PROJECT LOCATION: 14 MARINO DRIVE
SECTION 2, BLOCK 1, LOT 16 & 23.2
REVIEW DATE: 29 JULY 2022
MEETING DATE: 4 AUGUST 2022
PROJECT REPRESENTATIVE: DOCE ASSOCIATES

1. The application is before the Board for a 2-lot subdivision and lot line change.
2. The Highway Superintendent sign-off letter has been received.
3. All previous comments provided by this office have been addressed by the applicant's representative and depicted on the plans.

Respectfully submitted,

MHE Engineering, D.P.C.

A handwritten signature in blue ink that reads 'Patrick J. Hines'.

Patrick J. Hines
Principal

PJH/em

NEW YORK OFFICE

33 Airport Center Drive, Suite 202, New Windsor, NY 12553
845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

PENNSYLVANIA OFFICE

111 Wheatfield Drive, Suite 1, Milford, PA 18337
570-296-2765 | F: 570-296-2767 | mhepa@mhepc.com

DARREN C. DOCE, PE

5 LINCOLNDALE ROAD, CAMPBELL HALL, NY 10916
TEL. 845-561-1170 EMAIL DDOCE12@HOTMAIL.COM

June 15, 2022

John P. Ewasutyn, Chairman
Town of Newburgh Planning Board
21 Hudson Valley Professional Plaza
Newburgh, NY 12550

RE: Two Lot Subdivision and Lot Line Change Plan
Lands of Afonso - Marino Drive
Section 2 Block 1 Lots 16 and 23.2
Application No. 22-11

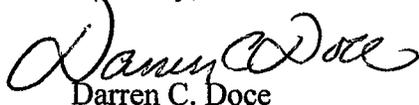
Dear Mr. Ewasutyn:

Attached are revised plans addressing comments received at the May 5, 2022 planning board meeting. In response to the comments, I offer the following:

1. By letter dated June 6, 2022, the Orange County Department of Planning has reviewed the plan and has no advisory comments.
2. The bulk table (sheet 1) has been revised to remove the +/- references.
3. Tax Lot 87 does not have a driveway off of the Marino Drive cul-de-sac. Access to this lot is from Coventry Lane.
4. By a memo dated May 24, 2022, Mark Hall has indicated he has reviewed the plans and has no comment.
5. The bulk requirement setbacks have been labelled on each lot.
6. The chart for the proposed sewage system designs is located on sheet 1.
7. The adjoiner mailings were sent out May 31, 2022.

If any additional information is required, please feel free to contact me.

Sincerely,



Darren C. Doce

cc Patrick J. Hines
Dominick Cordisco

RECEIVED
JUN 15 2022

MHE Engineering, D.P.C.

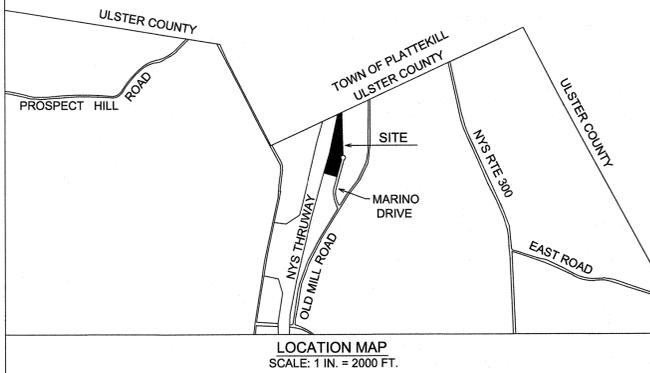
SANITARY FACILITIES NOTES:

- THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED. THIS DESIGN AND CONSTRUCTION REQUIREMENTS COMPLY WITH APPENDIX 75-A AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- ALL WORK DONE IN THE CONSTRUCTION OF THE SANITARY FACILITIES IS TO BE DONE UNDER THE SUPERVISION AND APPROVAL OF A NYS LICENSED PROFESSIONAL ENGINEER.
- ALL MATERIALS USED IN THE CONSTRUCTION OF THE SANITARY FACILITIES ARE TO BE APPROVED BY THE GOVERNMENT AGENCIES HAVING JURISDICTION AND THE SUPERVISING NYS LICENSED PROFESSIONAL ENGINEER.
- THE CONTRACTOR SHALL ENSURE INSTALLATION AS PER SPECIFICATIONS.
- PRIOR TO CONSTRUCTING THE SANITARY FACILITIES, THE CONTRACTOR SHALL CONTACT THE NYS LICENSED PROFESSIONAL ENGINEER TO MAKE ARRANGEMENTS FOR INSPECTIONS AND TESTING.
- PRIOR TO BACKFILLING THE SEWAGE DISPOSAL SYSTEM, THE TOWN OF NEWBURGH BUILDING INSPECTOR SHALL BE CONTACTED FOR A COURTESY INSPECTION.
- PRIOR TO BACKFILLING THE SEWAGE DISPOSAL SYSTEM, THE SYSTEM MUST BE INSPECTED BY A NYS LICENSED PROFESSIONAL ENGINEER.
- PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY SEWAGE DISPOSAL SYSTEM, THE TOWN OF NEWBURGH BUILDING INSPECTOR MUST RECEIVE AN "AS-BUILT" PLAN FOR SUCH SYSTEM CERTIFIED BY A NYS LICENSED PROFESSIONAL ENGINEER AS SET FORTH IN ARTICLE IV OF APPENDIX I SECTION 4 OF THE TOWN OF NEWBURGH MUNICIPAL CODE.
- HEAVY EQUIPMENT SHALL BE KEPT OFF OF THE ABSORPTION FIELD AREA EXCEPT DURING ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING OR AFTER CONSTRUCTION SO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED. STRIPPING OF TOPSOIL FROM THE ABSORPTION FIELD AREA IS STRICTLY PROHIBITED. FAILURE TO COMPLY MAY CAUSE REJECTION OF THE SYSTEM DURING INSPECTION, AND MAY REQUIRE SOIL RETESTING AND SYSTEM REDESIGN.
- ABSORPTION TRENCHES SHALL NOT BE CONSTRUCTED IN FROZEN GROUND OR WET SOIL.
- NO SWIMMING POOLS, DRIVEWAYS, PARKING AREAS OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER OR WITHIN TEN FEET OF ANY PORTION OF THE ABSORPTION FIELD OR RESERVE AREA.
- DO NOT ALLOW CELLAR, ROOF OR FOOTING DRAINS TO DISCHARGE OVER THE ABSORPTION FIELD OR RESERVE AREA.
- CELLAR, ROOF AND FOOTING DRAINS SHALL NOT BE CONNECTED TO THE SEWAGE DISPOSAL SYSTEM.
- SURFACE WATER IS TO BE DIVERTED AWAY FROM THE ABSORPTION FIELD.
- THERE SHALL BE NO REGRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELD OR RESERVE AREA.
- WATER SAVING PLUMBING FIXTURES SHALL BE USED.
- THE SYSTEM IS 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 THEM, AND REAPPROVED BY THE GOVERNMENT AGENCIES HAVING JURISDICTION.

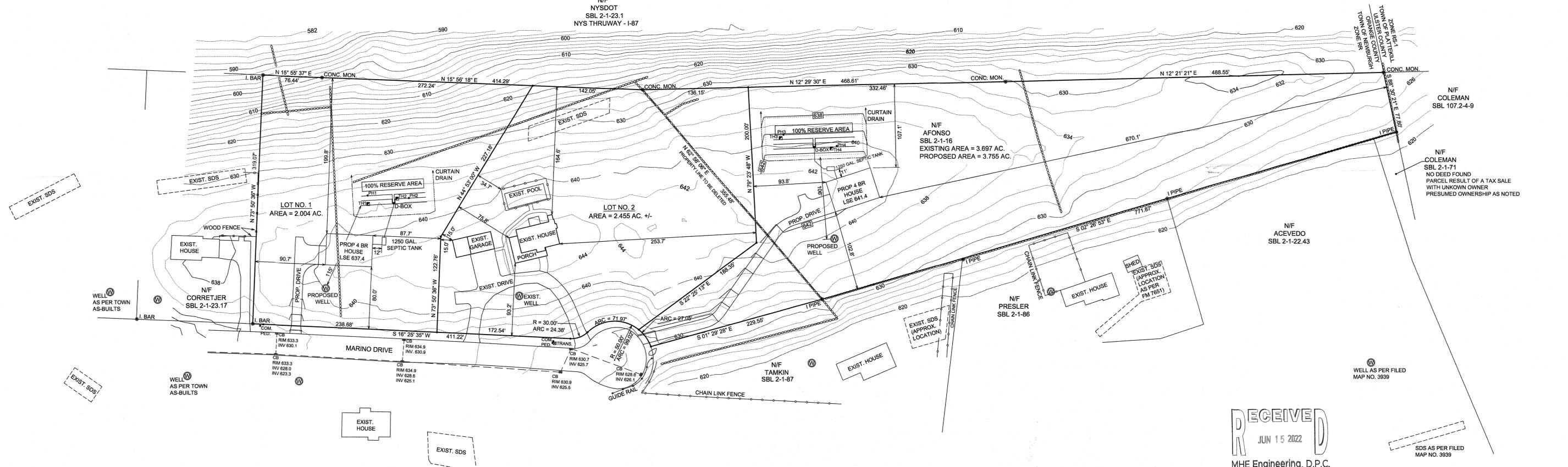
- ALL SEWER LINES SHALL BE INSTALLED HAVING THE FOLLOWING MINIMUM SLOPES: 1/4" FT FROM THE BUILDING TO THE SEPTIC TANK, 1/8" FT FROM THE SEPTIC TANK TO THE POINT OF DISTRIBUTION, AND 1/16" FT TO 1/32" FT FOR LATERALS. DOSED LATERALS SHALL BE SET LEVEL.
- THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
- THE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE PRE-CAST CONCRETE.
- 4" ID CAST IRON OR SCHEDULE 40 PVC PIPE SHALL BE USED BETWEEN THE BUILDING AND THE SEPTIC TANK. 4" ID SOLID TIGHT JOINT PVC PIPE SHALL BE USED BETWEEN THE SEPTIC TANK AND POINTS OF DISTRIBUTION. 4" ID PERFORATED PVC PIPE TO BE USED FOR LATERALS WITH THE PERFORATIONS FACING DOWN. LATERALS SHALL BE SOLID WALL PVC FOR A DISTANCE OF TWO FEET FROM THE DISTRIBUTION BOX. ALL SOLID WALL PIPE SHALL BE SDR-35.
- IF A WELL IS UPGRADE OF AN ABSORPTION FIELD, THE SEPARATION BETWEEN THE WELL AND THE ABSORPTION FIELD SHALL BE 100 FEET MINIMUM. IF THE WELL IS DOWNGRADE AND IN THE GENERAL DRAINAGE PATH OF AN ABSORPTION FIELD, THE SEPARATION SHALL BE 200 FEET MINIMUM.
- THE OWNER/APPLICANT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE "AS-BUILT" DRAWING OF ANY INSTALLED SANITARY FACILITIES.
- THE SEPTIC TANK SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2 TO 3 YEARS.
- THE DISTRIBUTION BOX SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT IT IS LEVEL AND OPERATING PROPERLY.
- THE WELL SHALL BE TESTED IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF HEALTH FACT SHEET #3 "RECOMMENDED RESIDENTIAL WATER QUALITY TESTING".
- ALTHOUGH THERE ARE NO NEW YORK STATE REGULATIONS REGARDING MAINTENANCE OF WELLS, PERIODIC TESTING OF WELL WATER (A MINIMUM OF YEARLY) IS RECOMMENDED.
- AFTER COMPLETION, GRASS AND MULCH SHALL BE APPLIED TO THE ABSORPTION FIELD AREA.

GENERAL NOTES:

- OWNER AND APPLICANT: JOSEPH P. AND MARIA S. AFONSO
14 MARINO DRIVE
WALKKILL, NY 12589
- TAX MAP DATA: SECTION 2 LOT 1 LOTS 16 AND 23.2
PARCEL AREAS: SBL 2-1-16 = 3.697 AC.
SBL 2-1-23.2 = 4.517 AC.
- THE LOCATIONS (HORIZONTAL AND VERTICAL) AND SIZES OF UNDERGROUND UTILITIES SHALL NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION, ELEVATION AND SIZE OF ANY EXISTING UNDERGROUND UTILITY. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS TO LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT MAKING REVISIONS AS NEEDED.
- ANY EXISTING STRUCTURE, CURB, PAVED AREA, LANDSCAPED AREA, ETC. DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
- IT IS THE DEVELOPER'S OR CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY NECESSARY PERMITS REQUIRED FROM FEDERAL, STATE OR LOCAL AUTHORITIES.
- PRIOR TO SITE DISTURBANCE, THE OWNER/APPLICANT SHALL HAVE THE SEWAGE DISPOSAL FIELD LOCATION CLEARLY MARKED. THIS AREA SHALL NOT BE DISTURBED UNTIL THE SEPTIC SYSTEM IS TO BE INSTALLED. STRIPPING TOPSOIL IN THIS AREA IS STRICTLY PROHIBITED.
- THE BOUNDARY AND TOPOGRAPHICAL INFORMATION SHOWN HEREON IS AS PER A FIELD SURVEY COMPLETED FEBRUARY 9, 2022, PREPARED BY MARTIN F. ANTHONISEN, JR., NYS REGISTRATION NO. 050764-1.
- THE EXISTING WELL LOCATIONS SHOWN ARE AS PER THE ABOVE MENTIONED FIELD SURVEY EXCEPT AS NOTED.
- THE EXISTING SEWAGE DISPOSAL SYSTEMS SHOWN ARE AS PER TOWN OF NEWBURGH CODE COMPLIANCE DEPARTMENT RECORDS EXCEPT AS NOTED.
- MAP REFERENCE: "PER-MAR SUBDIVISION SECTION 1" FILED IN THE ORANGE COUNTY CLERK'S OFFICE AS MAP NO. 3939.



ZONE : RR REGULATION	MINIMUM REQUIRED	MINIMUM PROPOSED		
		LOT NO. 1 2.004 AC.	LOT NO. 2 2.455 AC.	SBL: 2-1-16 3.755 AC.
LOT AREA	200 FT.	238.7 FT.	356.9 FT.	272.6 FT.
LOT WIDTH	300 FT.	320.1 FT.	322.2 FT.	832.1 FT.
LOT DEPTH	60 FT.	80.0 FT.	93.2 FT.	93.8 FT.
FRONT YARD	100 FT.	199.8 FT.	164.6 FT.	670.1 FT.
REAR YARD	50 FT.	87.7 FT.	75.8 FT.	102.8 FT.
ONE SIDE YARD	100 FT.	178.4 FT.	329.5 FT.	209.9 FT.
BOTH SIDE YARDS				
	MAXIMUM PERMITTED	MAXIMUM PROPOSED		
LOT BUILDING COVERAGE	10 %	2.7 %	2.2 %	1.5 %
LOT SURFACE COVERAGE	10 %	5.2 %	10.0 %	4.2 %
BUILDING HEIGHT	35 FT.	35 FT.(MAX.)	<35 FT.	35 FT.(MAX.)



SDS DESIGN BASIS	LOT NO. 1	SBL: 2-1-16
NO. OF BEDROOMS	4	4
DAILY FLOW (GPD)	440	440
SEPTIC TANK CAPACITY (GAL.)	1250	1250
DESIGN PERCOLATION RATE (MIN./IN.)	7 MIN.	15 MIN.
ABSORPTION TRENCH REQUIRED (LF)	220 LF	275 LF
ABSORPTION TRENCH PROVIDED (LF)	240 LF 6 LATS @ 40 LF EA.	300 LF 6 LATS @ 50 LF EA.
TYPE OF SYSTEM	ABSORPTION TRENCH	SHALLOW ABSORPTION TRENCH

- LEGEND:**
- PH/TH - PERCOLATION TEST/DEEP TEST LOCATION
 - ST - SEPTIC TANK
 - DB - DISTRIBUTION BOX
 - CD - CURTAIN DRAIN
 - W - WELL
 - 490 - EXISTING CONTOUR
 - 490 - PROPOSED CONTOUR

OWNER'S ENDORSEMENT:
I, THE UNDERSIGNED, HAVE REVIEWED THE CONTENTS OF THIS PLAN AND HEREBY CONCUR WITH ALL THE TERMS AND CONDITIONS AS STATED HEREON, AND TO THE FILING OF THIS PLAN.

JOSEPH P. AFONSO

COUNTY CERTIFICATION:
THE PROPOSED SEWAGE DISPOSAL SYSTEM AND WATER SUPPLY SYSTEM SHOWN ARE DESIGNED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS ESTABLISHED BY THE NYS DEPARTMENT OF HEALTH AND THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION FOR RESIDENTIAL LOTS. THE DESIGN IS BASED UPON ACTUAL SOIL AND SITE CONDITIONS FOUND UPON THE LOT AT THE DESIGN LOCATION AT THE TIME OF DESIGN.

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.

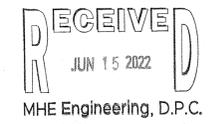
SURVEYOR'S CERTIFICATION:
I HEREBY CERTIFY THAT THE BOUNDARY AND TOPOGRAPHICAL SURVEY SHOWN HEREON IS THE RESULT OF AN ACTUAL FIELD SURVEY COMPLETED ON FEBRUARY 9, 2022.

MARTIN F. ANTHONISEN, JR.
NYS REGISTRATION NO. 050764-1

CALL BEFORE YOU DIG
DIG SAFELY NEW YORK MUST BE CONTACTED (DIAL 811 OR 1-800-962-7962) AT LEAST TWO FULL WORKING DAYS PRIOR TO ANY EXCAVATION, DRILLING OR BLASTING TO HAVE ANY EXISTING UNDERGROUND UTILITIES LOCATED AND MARKED. NON-MEMBER UTILITIES MUST BE CONTACTED SEPARATELY.

UNAUTHORIZED ALTERATION OR ADDITION TO A MAP BEARING A LICENSED PROFESSIONAL'S SEAL IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

5/6/2022	ZONE TABLE, BUILDING SETBACKS
DATE	REVISION

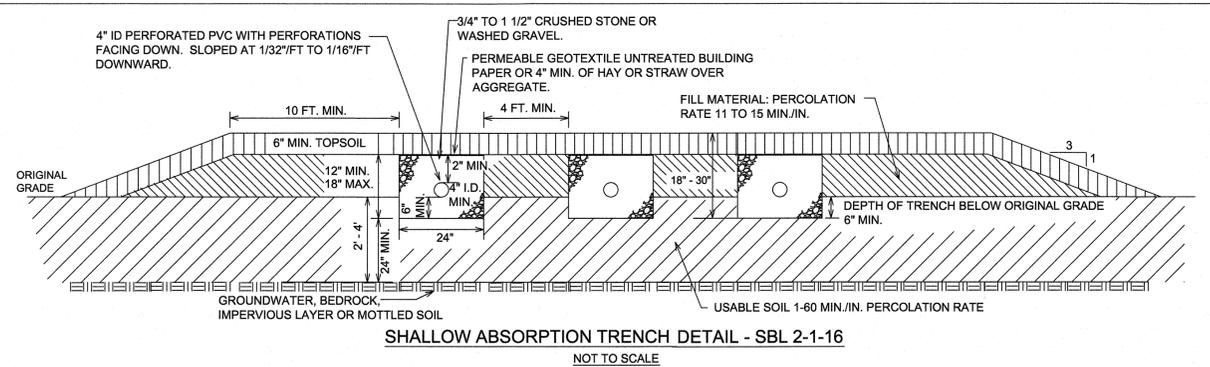
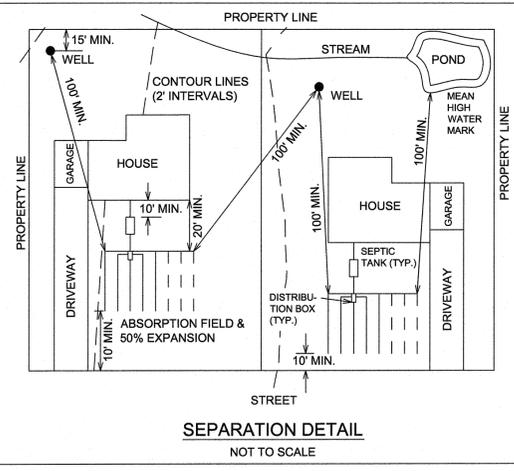


THIS SHEET IS INVALID UNLESS ACCOMPANIED BY SHEET 1 OF 3 THROUGH SHEET 3 OF 3.

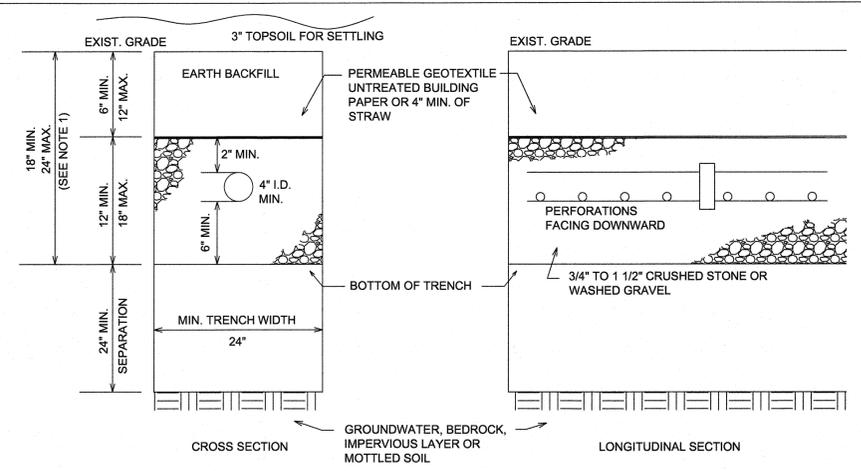
TWO LOT SUBDIVISION AND LOT LINE CHANGE PLAN
FOR
JOSEPH P. AND MARIA S. AFONSO
14 MARINO DRIVE, TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK
DATE: APRIL 20, 2022 SCALE: 1 IN. = 60 FT.
TAX PARCEL SECTION 2 BLOCK 1 LOTS 16 & 23.2

PREPARED BY:
DARREN C. DOCE, PE
5 LINCOLNDALE ROAD, CAMPBELL HALL, NY 10916
TEL. 845 561-1170 EMAIL DDOCE12@HOTMAIL.COM

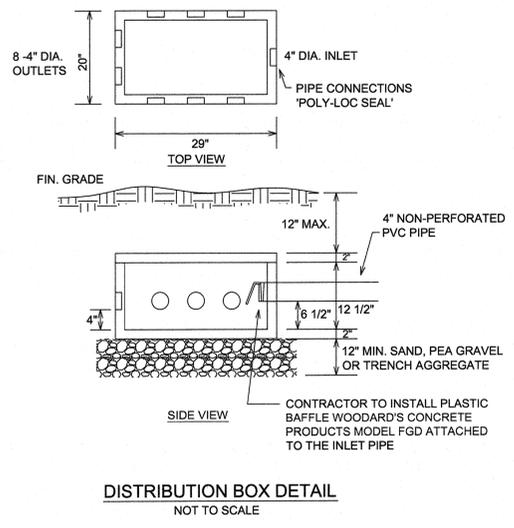
Darren Doce



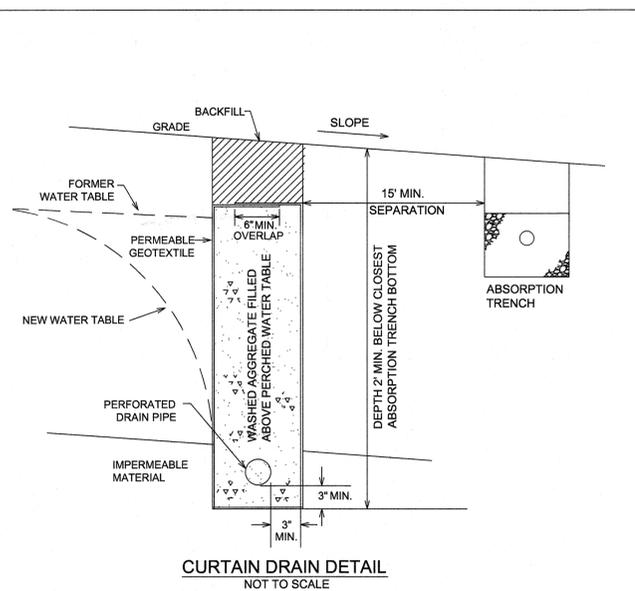
- NOTES:
1. USABLE FILL MATERIAL SHOULD HAVE A PERCOLATION RATE SIMILAR TO BUT NOT FASTER THAN THE USABLE UNDERLYING SOIL. PERCOLATION TEST RESULTS OF THE IN SITU (I.E. AT THE BORROW PIT) SHALL BE USED TO ASSURE THAT THE PERMEABILITY OF THE FILL MATERIAL IS COMPATIBLE WITH THE ON-SITE SOIL PERMEABILITY. DEPTH OF USABLE FILL PLUS SIX INCHES OF TOPSOIL TO BE NO GREATER THAN 30 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 2. TRENCH BOTTOMS SHALL NOT BE ABOVE THE ORIGINAL GROUND SURFACE. SET THE BOTTOM OF TRENCHES 6 INCHES BELOW GRADE TO MEET THE REQUIRED 24 INCH SEPARATION BETWEEN THE TRENCH BOTTOMS AND THE MOTTLED SOIL.
 3. HEAVY EQUIPMENT TO BE KEPT OFF OF THE ABSORPTION AREA. FILL TO BE PLACED CAREFULLY WITHIN THE ABSORPTION AREA.
 4. PLACE DIVERSION DITCH ON THE UPHILL SIDE OF THE FILL MATERIAL TO PREVENT RUNOFF FROM ENTERING THE FILL.
 5. THE SURFACE OF THE SYSTEM, INCLUDING THE TAPER, TO BE COVERED WITH 6 INCHES OF TOPSOIL, MOUNDING TO ENHANCE RUNOFF OF RAINWATER FROM THE SYSTEM AND SEEDED.
 6. FILL MATERIAL TO BE INSPECTED AND APPROVED BY A NY'S LICENSED PROFESSIONAL ENGINEER.
 7. ROTOTILLING OR SOIL SCARIFICATION WITH CONSTRUCTION EQUIPMENT IS NOT RECOMMENDED. ALL TREES AND STUMPS SHALL BE CUT AT GRADE AND REMOVED. VEGETATION SHALL BE CUT AS CLOSE TO GRADE AS POSSIBLE AND REMOVED. ALL LEAVES, LIMBS AND BOULDERS ABOVE GRADE SHALL BE REMOVED. ROOT STRUCTURE BELOW GRADE SHALL NOT BE REMOVED. TRENCH BOTTOMS SHALL BE SET LEVEL. TRENCHES SHALL BE PARALLEL TO GROUND CONTOURS.
 8. FILL SHALL EXTEND AT LEAST TEN FEET BEYOND ENDS OF TRENCHES BEFORE STARTING ON A SLOPE NO GREATER THAN 1 VERTICAL ON 3 HORIZONTAL TO THE ORIGINAL GRADE.
 9. DO NOT INSTALL TRENCHES IN WET SOIL.
 10. RAKE THE SIDES AND BOTTOM OF TRENCHES PRIOR TO PLACING GRAVEL.
 11. THE ENDS OF PERFORATED PIPE TO BE CAPPED.
 12. SPACING OF TRENCHES TO BE 6 FEET ON CENTER.
 13. LATERALS SHALL BE 4" I.D. PERFORATED PVC PIPE WITH PERFORATIONS FACING DOWN.



1. INSTALL TRENCH BOTTOMS AT 24" BELOW EXISTING GRADE MAXIMUM.
2. TRENCH BOTTOMS ARE TO BE SET LEVEL. LATERALS TO BE SLOPED AT 1/32"/FT TO 1/16"/FT DOWNWARD.
3. DO NOT INSTALL TRENCHES IN WET SOIL.
4. RAKE THE SIDES AND BOTTOM OF TRENCHES PRIOR TO PLACING GRAVEL.
5. THE ENDS OF THE PERFORATED PIPE TO BE CAPPED.
6. FOUR FEET OF UNDISTURBED SOIL TO REMAIN BETWEEN TRENCHES.
7. SPACING OF TRENCHES TO BE 6 FEET ON CENTER.
8. LATERALS TO BE 4" I.D. PERFORATED PVC PIPE. PERFORATIONS TO FACE DOWN.
9. ALL TRENCHES TO BE DUG IN VIRGIN SOIL.
10. INSTALL TRENCHES PARALLEL TO GROUND CONTOURS.
11. DOSED LATERALS SHALL BE SET LEVEL.



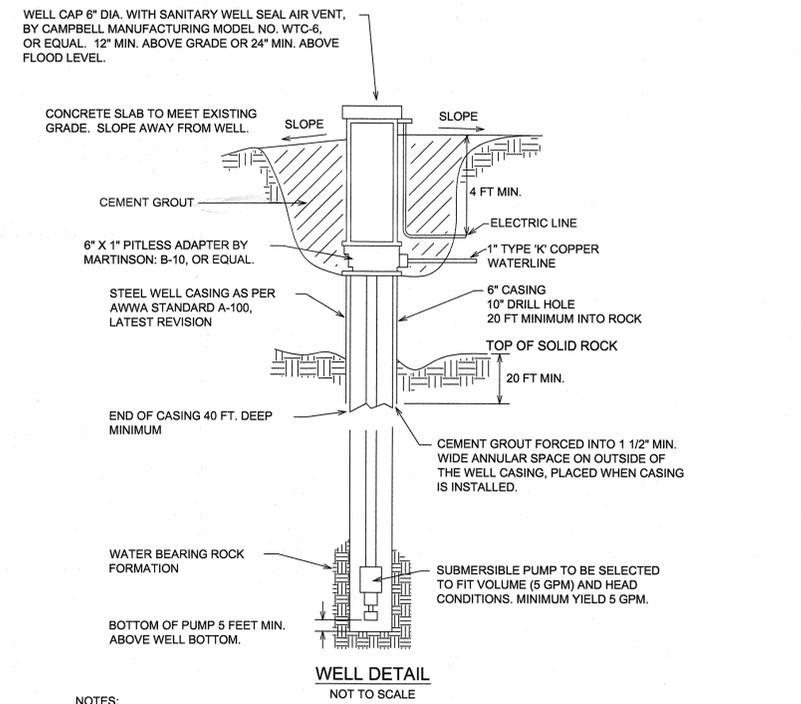
1. DISTRIBUTION BOX TO BE PRE-CAST CONCRETE MODEL NO. DB-9 BY WOODARD'S CONCRETE PRODUCTS, OR EQUAL.
2. A BAFFLE IS TO BE INSTALLED IN THE DISTRIBUTION BOX. THE BAFFLE SHALL BE A PLASTIC BAFFLE MODEL FGD BY WOODARD'S CONCRETE PRODUCTS, OR EQUAL. INSTALLED BY THE CONTRACTOR ON-SITE.
3. ALL OUTLET INVERTS ARE TO BE AT THE SAME ELEVATION. FLOW EQUALIZERS ARE REQUIRED.
4. THE FIRST 10 FEET OF ALL OUTLET PIPES ARE TO BE SET AT IDENTICAL SLOPES.
5. ALL UNUSED OUTLETS ARE TO REMAIN PLUGGED.
6. OUTLETS SHALL BE UTILIZED IN A MANNER THAT WILL ALLOW ACCESS TO THE RESERVE AREA WITHOUT DISTURBING THE EXISTING PIPING.
7. LATERALS SHALL BE SOLID WALL PVC FOR A DISTANCE OF 2 FEET (MIN.) FROM THE DISTRIBUTION BOX.
8. ALL PVC FITTINGS SHALL BE GASKETTED OR SOLVENT WELDED.



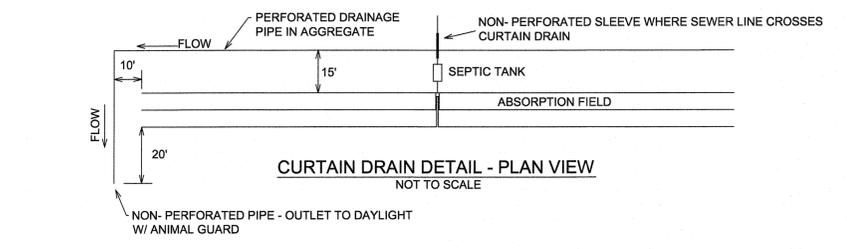
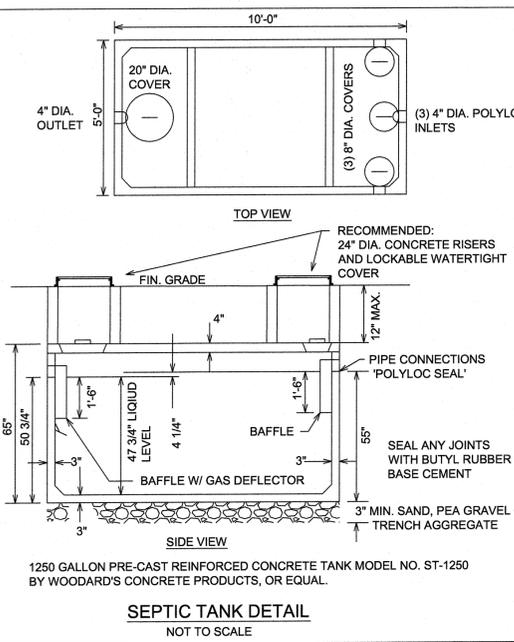
1. CURTAIN DRAIN OUTLET TO DAYLIGHT.
2. INSTALL ANIMAL GUARD AT THE PIPE OUTLET.

PERCOLATION TEST RESULTS		TIME						STABILIZED RATE		
LOT NO.	HOLE NO.	DEPTH (IN.)	DATE	RUN 1	RUN 2	RUN 3	RUN 4		RUN 5	RUN 6
1	1	24	4/01/2022	3 M 47 S	5 M 03 S	5 M 40 S	5 M 50 S	6 M 00 S	7 M 00 S	7 MIN/IN
2	2	24	4/01/2022	4 M 30 S	6 M 00 S	7 M 02 S	6 M 50 S	7 M 00 S		
SBL 2-1-16	3	12	3/29/2022	8 M 24 S	9 M 40 S	10 M 10 S	11 M 30 S	12 M 30 S	12 M 42 S	15 MIN/IN
	4	12	3/29/2022	14 M 45 S	14 M 14 S	14 M 15 S	14 M 10 S			

DEEP TEST HOLE RESULTS		TIME	
LOT NO.	HOLE NO.	DATE	DESCRIPTION
1	1	3/23/2022	0' TO 5' TOPSOIL 5' TO 13' DARK BROWN SILT LOAM 13' TO 66' LIGHT BROWN SILT LOAM 66' TO 96' LIGHT BROWN SILT LOAM W/ SHALE FRAGMENTS WATER SEEP @ 66" NO BEDROCK
2	2	3/23/2022	0' TO 6' TOPSOIL 6' TO 13' DARK BROWN SILT LOAM 13' TO 60' LIGHT BROWN SILT LOAM 60' TO 84' LIGHT BROWN SILT LOAM W/ SHALE FRAGMENTS NO GROUNDWATER NO BEDROCK
SBL 2-1-16	3	3/23/2022	0' TO 6' TOPSOIL 6' TO 12' DARK BROWN SILT LOAM 12' TO 32' LIGHT BROWN SILT LOAM 32' TO 42' LIGHT BROWN SILT LOAM MOTTLED 42' TO 72' LIGHT BROWN SILT LOAM NO GROUNDWATER BEDROCK @ 72'
4	4	3/23/2022	0' TO 5' TOPSOIL 5' TO 13' DARK BROWN SILT LOAM 13' TO 34' LIGHT BROWN SILT LOAM 34' TO 45' LIGHT BROWN SILT LOAM MOTTLED 45' TO 84' LIGHT BROWN SILT LOAM NO GROUNDWATER BEDROCK @ 84'



- NOTES:
1. WELL TO BE CONSTRUCTED IN ACCORDANCE WITH 'NYSDOH APPENDIX 5-B: STANDARDS FOR WATER WELLS, LATEST EDITION.
 2. THE WELL SHALL BE TESTED IN ACCORDANCE TO NEW YORK STATE DEPARTMENT OF HEALTH - FACT SHEET #3 'RECOMMENDED RESIDENTIAL WATER QUALITY TESTING.'



UNAUTHORIZED ALTERATION OR ADDITION TO A MAP BEARING A LICENSED PROFESSIONAL'S SEAL IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

DATE	REVISION

THIS SHEET IS INVALID UNLESS ACCOMPANIED BY SHEET 1 OF 3 THROUGH SHEET 3 OF 3.

DETAIL SHEET
FOR
JOSEPH P. AND MARIA S. AFONSO
14 MARINO DRIVE, TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK
DATE: APRIL 20, 2022 SCALE: AS SHOWN
TAX PARCEL SECTION 2 BLOCK 1 LOTS 16 & 23.2

PREPARED BY:
DARREN C. DOCE, PE
5 LINCOLNDALE ROAD, CAMPBELL HALL, NY 10916
TEL. 845 561-1170 EMAIL DDOCE12@HOTMAIL.COM

SHEET 2 OF 3

Darren C. Doce

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH STANDARDS SET FORTH IN "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," LATEST EDITION, PREPARED BY THE USDA SOIL CONSERVATION SERVICE.
- THE SMALLEST PRACTICAL AREA OF LAND IS TO BE EXPOSED AT ANY ONE TIME DURING THE DEVELOPMENT OF THE PARCEL. ONLY THOSE AREAS NECESSARY IN THE DEVELOPMENT OF THE PARCEL SHALL BE DISTURBED. WHEN FEASIBLE, THE NATURAL VEGETATION IN ALL OTHER AREAS SHALL BE PROTECTED AND RETAINED. SOIL EXPOSURE SHALL BE LIMITED TO ONE ACRE.
- INITIAL CLEARING OR SOIL DISTURBANCE SHALL BE LIMITED TO THAT NECESSARY TO INSTALL EROSION AND SEDIMENT CONTROL MEASURES. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PERMANENT EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. THE PROPERTY OWNER WILL ASSUME THIS RESPONSIBILITY AFTER CONSTRUCTION IS COMPLETED AND CERTIFICATES OF OCCUPANCY ARE ISSUED.
- ALL EXCAVATED EARTH AND ACCUMULATED SEDIMENT NOT USED AS FILL SHALL BE HAULED OFF SITE AND DISPOSED OF PROPERLY.
- THE PERMANENT DRIVEWAY OR ENTRANCE LOCATION SHALL BE USED AS A STABILIZED CONSTRUCTION ENTRANCE. TWO INCH STONE SHALL BE PLACED AT A MINIMUM 6 INCH DEPTH, 30 FEET LONG AND 12 FEET WIDE. THE ENTRANCE SHALL BE TOP DRESSED WITH STONE AS NECESSARY TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADS OR RIGHT-OF-WAYS. SEDIMENT TRACKED ONTO PUBLIC ROADS MUST BE REMOVED OR CLEANED ON A DAILY BASIS.
- AT ANY LOCATION WHERE SURFACE RUNOFF FROM DISTURBED OR GRADED AREAS MAY FLOW OFF OF THE CONSTRUCTION AREA, SEDIMENT CONTROL MEASURES MUST BE INSTALLED, (EG SILT FENCE) TO PREVENT SEDIMENT FROM BEING TRANSPORTED OFF SITE. NO GRADING, FILLING OR OTHER DISTURBANCE IS ALLOWED WITHIN EXISTING DRAINAGE SWALES.
- ANY PROPOSED SWALES SHALL BE SODDED OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING THEIR COMPLETION.
- DOWNPOUTS OR SUMP PUMP OUTLETS SHOULD BE PROTECTED BY SPLASHBLOCKS.

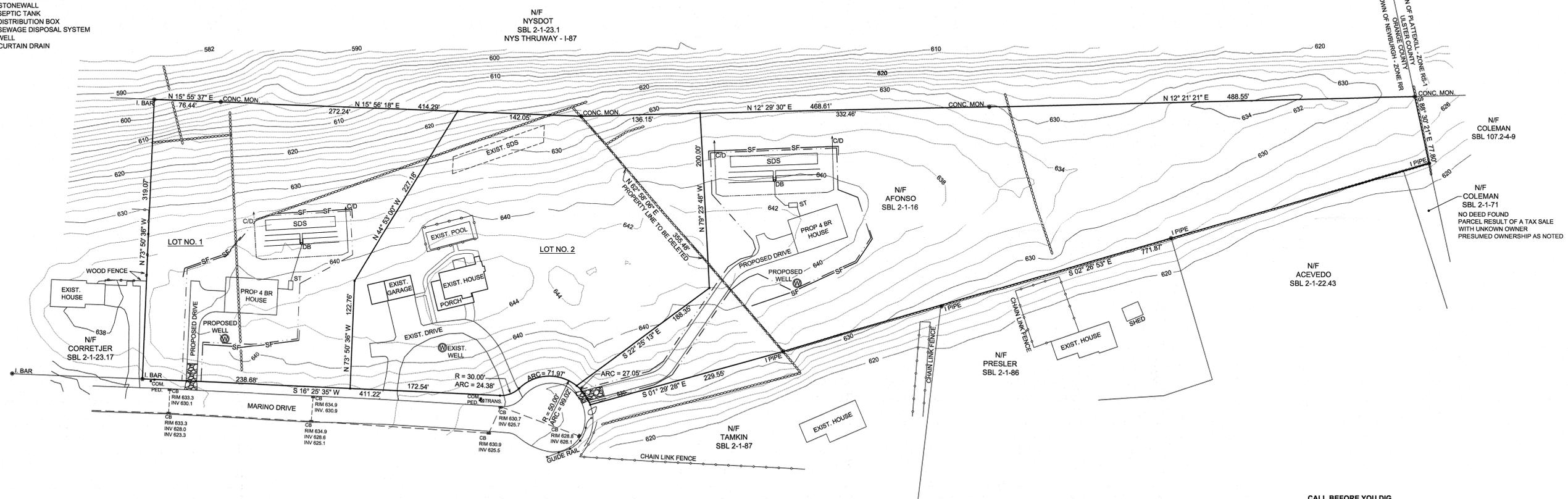
- RUNOFF SHALL BE DIRECTED AWAY FROM CUT OR FILL SLOPES UNTIL THE SLOPES HAVE BECOME STABILIZED. NO CONCENTRATED FLOWS SHALL BE DIRECTED OVER CUT OR FILL SLOPES.
- ALL MATERIALS ORIGINATING FROM THE DEVELOPMENT OF THE LOT SHALL BE REMOVED IMMEDIATELY TO AN ACCEPTABLE DISPOSAL FACILITY. NO CONSTRUCTION DEBRIS SHALL BE BURIED ON SITE. ALL LOOSE MATERIALS SHALL BE REGULARLY COLLECTED TO PREVENT THE RELEASE OF FLOATABLES DURING STORM EVENTS.
- PLACE SILT FENCE AROUND THE PERIMETER OF ANY STOCKPILES AS SOON AS THEY ARE CREATED. MULCH THE STOCKPILES WHEN NOT IN USE.
- FINAL SITE DRAINAGE SHALL BE COMPLETED IN ORDER TO PREVENT EROSION, PONDING AND CONCENTRATED FLOWS ONTO ADJACENT PARCELS. IN ACCORDANCE WITH NEW YORK STATE CODE, POSITIVE DRAINAGE AWAY FROM THE FOUNDATION MUST BE PROVIDED. THE FOUNDATION MUST EXTEND AT LEAST EIGHT INCHES ABOVE FINISHED GRADE AND THE GRADE AWAY FROM THE FOUNDATION MUST FALL A MINIMUM OF SIX INCHES IN THE FIRST TEN FEET.
- STABILIZATION:
FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
A. SEVEN CALENDAR DAYS FROM THE TIME THAT THE SOIL IS INITIALLY DISTURBED, AND BEFORE ANY SIGNIFICANT STORM EVENT WHICH MAY HAVE A POTENTIAL TO CAUSE EROSION, BUT NOT TO EXCEED SEVEN DAYS FROM INITIAL DISTURBANCE.
B. FOURTEEN CALENDAR DAYS FOR ALL APPROVED STOCKPILES AND OTHER DISTURBED AND GRADED AREAS PROVIDED CONSTRUCTION GRADING ACTIVITY IS NOT CONTINUALLY ONGOING IN THESE LOCATIONS.
C. PERMANENT VEGETATION SHALL BE INSTALLED ON ALL EXPOSED AREAS WITHIN 14 DAYS OF FINAL GRADING. MULCH SHALL BE USED AS NECESSARY FOR PROTECTION UNTIL PERMANENT VEGETATION IS ESTABLISHED.
D. SEEDING AND MULCHING SHALL BE DONE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," LATEST EDITION, PREPARED BY THE USDA SOIL CONSERVATION SERVICE.
E. IF THE SEASON PREVENTS THE ESTABLISHMENT OF VEGETATION, THE DISTURBED AREA SHALL BE MULCHED WITH STRAW AT A RATE OF 2 TONS/ACRE (100-120 BALES/ACRE) UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED.
F. IMMEDIATELY FOLLOWING SITE DISTURBANCE OR ROUGH GRADING ANY CRITICAL AREAS (E.G. STEEP SLOPES) SHALL BE STABILIZED WITH TEMPORARY VEGETATION, EMULSION AND/OR EROSION CONTROL FABRICS AS NEEDED.

- MAINTENANCE:
A. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PERIODICALLY INSPECTED, MAINTAINED AND REPLACED WHEN THEY BECOME INOPERABLE. INSPECTIONS TO BE DONE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," LATEST EDITION, PREPARED BY THE USDA SOIL CONSERVATION SERVICE.
B. SEDIMENT IS TO BE REMOVED FROM THE SILT FENCE WHEN THE DEPTH OF SEDIMENT IS 1/3 THE HEIGHT OF THE BARRIER. THE SILT FENCE SHOULD BE CHECKED FOR AREAS WHERE RUNOFF MIGHT HAVE ERODED BENEATH THE FENCE, SAGS IN THE FENCE OR FENCE COLLAPSE. REPAIR AND REPLACE THE SILT FENCE AS NEEDED. AFTER THE SITE IS STABILIZED, REMOVE THE SILT FENCE AND DISPOSE OF IT PROPERLY.
C. INSPECT MULCHED AREAS FOR AREAS WHERE THE MULCH HAS BEEN LOOSENEED OR REMOVED AND REPLACE AS NEEDED. REMOVE ANY ANCHORING WHEN IT IS NO LONGER NEEDED AND DISPOSE OF IT PROPERLY.
D. INSPECT SEEDED AREAS TO SEE IF GOOD GROWTH IS BEING ESTABLISHED AND RESEED AS NEEDED.
E. INSPECT THE STABILIZED CONSTRUCTION ENTRANCE REGULARLY AND AFTER HIGH TRAFFIC VOLUMES AND STORM EVENTS. APPLY ADDITIONAL STONE AND CLEAN THE PUBLIC ROADWAY AS NEEDED.
F. ONCE THE DISTURBED AREAS HAVE BECOME PERMANENTLY STABILIZED, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF PROPERLY.

GENERAL NOTES:

- THE LOCATIONS (HORIZONTAL AND VERTICAL) AND SIZES OF UNDERGROUND UTILITIES SHALL NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION, ELEVATION AND SIZE OF ANY EXISTING UNDERGROUND UTILITY. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS TO LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT MAKING REVISIONS AS NEEDED.
- ANY EXISTING STRUCTURE, CURB, PAVED AREA, LANDSCAPED AREA, ETC. DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
- IT IS THE DEVELOPER'S OR CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY NECESSARY PERMITS REQUIRED FROM FEDERAL, STATE OR LOCAL AUTHORITIES.
- AS APPLICABLE, THE OWNER/OPERATOR AND/OR CONTRACTOR SHALL COMPLY WITH THE NYSDEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITY, LATEST REVISION.

- LEGEND:**
- CB [] - CATCH BASIN
 - - - - - LIMITS OF DISTURBANCE DURING CONSTRUCTION
 - SF - SILT FENCE (INSTALL PRIOR TO SOIL DISTURBANCE)
 - [] - STABILIZED CONSTRUCTION ENTRANCE (INSTALL PRIOR TO SOIL DISTURBANCE)
 - 500- - - EXISTING CONTOUR
 - 600- - - PROPOSED CONTOUR
 - [] - STONEWALL
 - [] - SEPTIC TANK
 - DB - DISTRIBUTION BOX
 - SDS [] - SEWAGE DISPOSAL SYSTEM
 - W - WELL
 - C/D - CURTAIN DRAIN



CALL BEFORE YOU DIG
DIG SAFELY NEW YORK MUST BE CONTACTED (DIAL 811 OR 1-800-982-7982) AT LEAST TWO FULL WORKING DAYS PRIOR TO ANY EXCAVATION, DRILLING OR BLASTING TO HAVE ANY EXISTING UNDERGROUND UTILITIES LOCATED AND MARKED. NON-MEMBER UTILITIES MUST BE CONTACTED SEPARATELY.

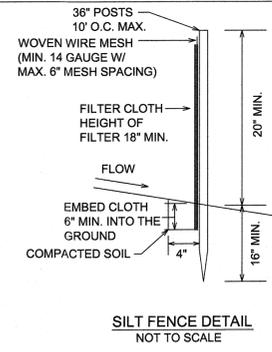
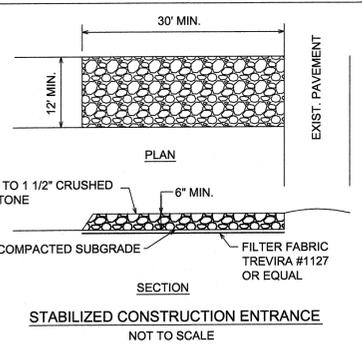
UNAUTHORIZED ALTERATION OR ADDITION TO A MAP BEARING A LICENSED PROFESSIONAL'S SEAL IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

THIS SHEET IS INVALID UNLESS ACCOMPANIED BY SHEETS 1 OF 3 THROUGH 3 OF 3.

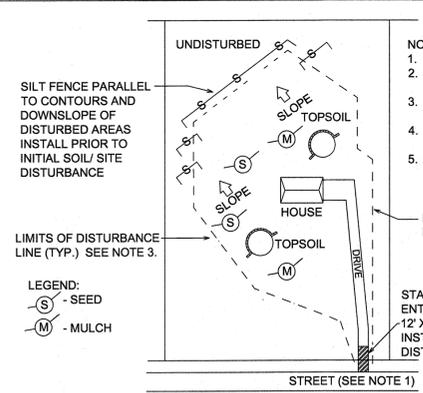
SOIL EROSION AND SEDIMENT CONTROL PLAN
LANDS OF
JOSEPH P. AND MARIA S. AFONSO
14 MARINO DRIVE, TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK
DATE: APRIL 20, 2022 SCALE: 1 IN. = 60 FT.
TAX PARCEL SECTION 2 BLOCK 1 LOTS 16 & 23.2

PREPARED BY:
DARREN C. DOCE, PE
5 LINCOLDALE ROAD, CAMPBELL HALL, NEW YORK 10916
TEL. 845 561-1170 EMAIL DDOCE12@HOTMAIL.COM

Darren C. Doce



- NOTES:**
- INSTALL SILT FENCE ON THE DOWNSLOPE SIDE OF DISTURBED AREAS TO CAPTURE SEDIMENT.
 - FASTEN SILT FENCE TO POSTS WITH WIRE TIES OR STAPLES.
 - WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN, OVERLAP BY 6" AND FOLD.
 - PREFAB UNITS: GEOFAB, ENVIRONFENCE OR EQUAL.
 - INSTALL THE SILT FENCE ON A LINE OF EQUAL ELEVATION (CONTOUR).
 - PLACE SILT FENCE 5' MIN. FROM TOE OF SLOPE.
 - INSTALL SILT FENCE WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
 - SEDIMENT TO BE REMOVED FROM THE SILT FENCE WHEN THE DEPTH OF SEDIMENT IS 1/3 THE HEIGHT OF THE BARRIER. SILT FENCE SHOULD BE CHECKED FOR AREAS WHERE RUNOFF MIGHT HAVE ERODED BENEATH THE FENCE, SAGS OR BULGES IN THE FENCE OR FENCE COLLAPSE. REPAIR AND REPLACE AS NEEDED. AFTER SITE STABILIZATION, REMOVE SILT FENCE AND DISPOSE OF IT PROPERLY.
 - FILTER CLOTH TO BE ATTACHED TO WOVEN WIRE MESH WITH TIES SPACED EVERY 24" AT THE TOP AND MIDSECTION.
 - FILTER CLOTH SHALL BE FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL.



- NOTES:**
- STREET TO BE CLEANED DAILY.
 - SEED/MULCH REQUIRED WITHIN 7 DAYS OR BEFORE ANY RAIN EVENT.
 - AREA OF DISTURBANCE TO BE MINIMIZED, AND LESS THAN 1 ACRE.
 - INSTALL SILT FENCE DOWNSLOPE OF DISTURBED AREAS TO CAPTURE SEDIMENT.
 - PLACE SILT FENCE AROUND STOCKPILE PERIMETERS. MULCH STOCKPILES WHEN NOT IN USE.
- LEGEND:
S - SEED
M - MULCH
- STABILIZED CONSTRUCTION ENTRANCE
12' X 30' X 6" (2" STONE SURFACE)
INSTALL PRIOR TO INITIAL SOIL/SITE DISTURBANCE

DATE	REVISION