

LOCATION MAP  
SCALE 1" = 2000'

#### GENERAL NOTES:

- Contractor shall be responsible for the removal and replacement of signs, guide rails, guide posts, culvert pipes, mailboxes, headwalls, etc. which must be removed for construction. Contractor shall reinstall any removed items on a daily basis. Any items damaged by removal or reinstallation shall be replaced and reinstalled by the contractor with a new item.
- No utility work (Water, Sewer Storm Drainage) is allowed to be performed between November 15 and March 15 within the County Right of Way.
- No track equipment is allowed on the County Road without placing mats, plywood, tires, etc. to protect the asphalt road.
- No open trenches are allowed to remain open overnight.
- All open trenches are required to be backfilled on a daily basis.
- All disturbed areas for the installation of the driveways are required to be shaped and graded, seeded and mulched (within 24 hours) of completion of the stabilized entrance.

#### LANDSCAPING:

- Any planting and landscaping features are required to be offset from the property line by 4 feet.

#### BACKFILL MATERIALS:

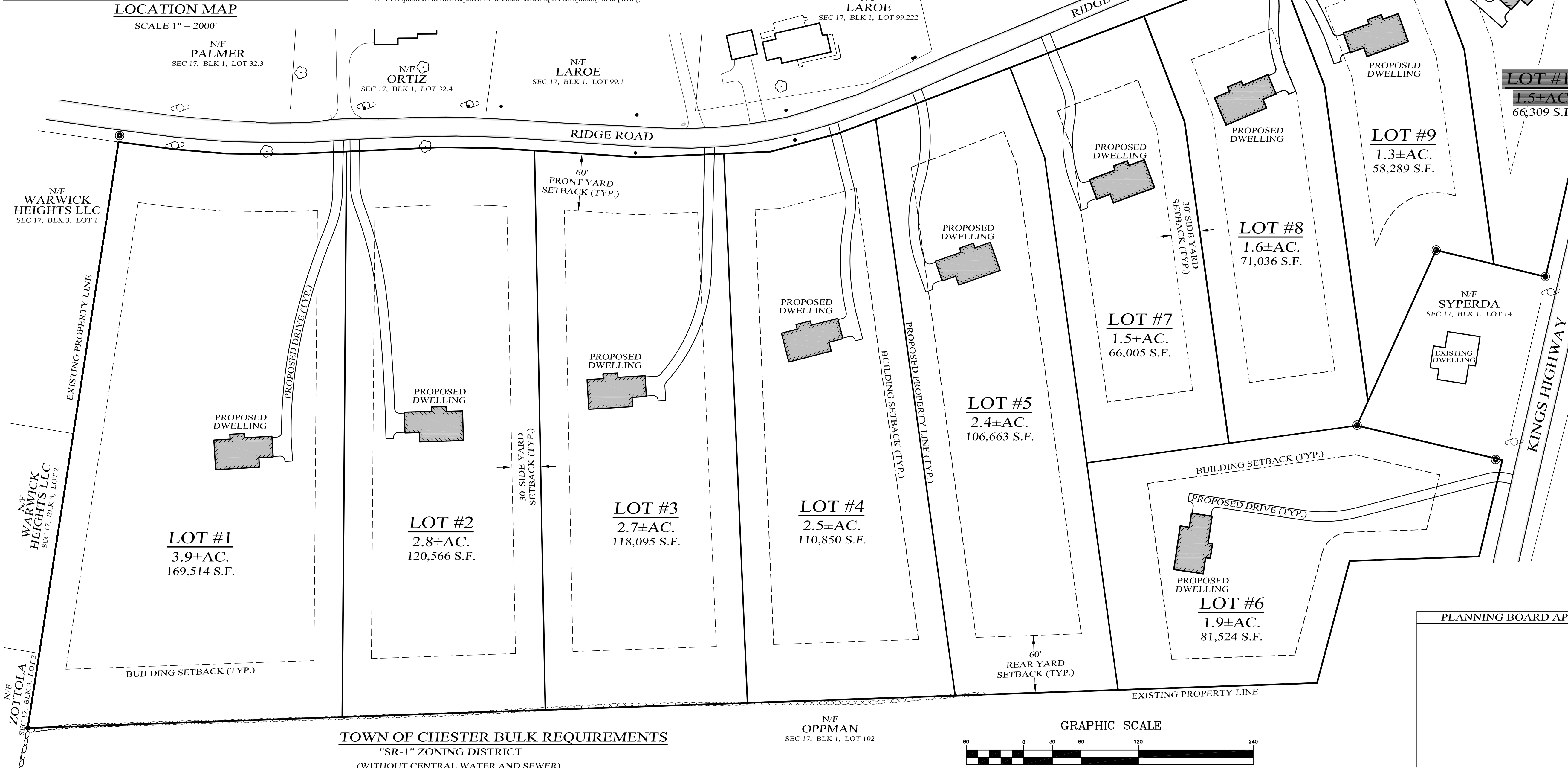
- Provide Cross Section Details for Backfill Requirements within the Asphalt, Within 8 feet of the Edge of Pavement, and 8 feet beyond from the Edge of Pavement.
- Dry K. Crete shall be used at all road crossing (town roads), commercial entrances, and all trenches within Asphalt or as directed by Orange County Inspector.
- Item No. 4: Item 304.12 Subbase Course Type 2 is required to be used as backfill from edge of pavement out eight feet.
- Excavated material is allowed to be used as backfill material 8 ft beyond the edge of pavement. No boulders/rocks over 12 inches are allowed to be used as backfill.
- Material tickets are required to be provided to the Orange County Inspector on a daily basis for all material used in the County Right of Way.

#### ASPHALT RESTORATION:

- All pavement restoration needs to be completed on a daily basis.
- Ragged trench edges must saw cut prior to any paving (temporary or permanent).
- It will be the responsibility of the contractor to maintain the 3" of binder course flush with the existing pavement surface throughout the duration of the project. Final asphalt restoration is to be completed at the completion of the project.
- All temporary asphalt is required to be five (5) inches thick and placed in two (2) lifts of 2 1/2 inches.
- All edges of existing asphalt are required to be swept and tack coated prior to paving.
- All Asphalt is required to be saw cut parallel or perpendicular to the trench or to the existing asphalt. No ragged edges are acceptable.
- All saw cutting is required to be performed prior to placing Asphalt Binder. Milling out the jagged edges on the top course or final asphalt will not be accepted by Orange County.
- All Asphalt Joints are required to be crack sealed upon completing final paving.

#### MAINTENANCE AND PROTECTION OF TRAFFIC:

- Provide notes that all work is to be performed in accordance with Orange County Requirements.
- The following signs are required to be placed in each direction to perform the work per the approved plans: Road Work 1500 Ft, Road Work 1000 Ft, Road Work 500 Ft, One Lane Road
- Ahead, Flagger Symbol on each approach when taking a travel lane. When work is performed on the shoulder the following signs are required: Road Work 1500 Ft, Road Work 1000 Ft, Road Work 500 Ft, No Shoulder. Flagger Symbols are required to be available for a "No Shoulder" Work Zone in case flaggers are used to direct traffic.
- All Maintenance and Protection of Traffic Construction Signage shall be installed and in place prior any work starting. All construction signage is required to meet the requirements as per the "National Manual of Uniform Traffic Control Devices for Streets and Highways" and NYS Supplement latest edition and revisions. In a case where County requirements are more stringent with regard required MPT signage, the County requirements are the standard to be adhered to.
- The construction signage shall be installed on permanent posts, on breakaway posts or on wind- masters and covered and uncovered on a daily basis. The contractor must have all the necessary construction signs to perform the work safely; i.e. Additional signage: One Lane Road Ahead, Flagger Symbol, if a lane has to be closed to perform work.
- All construction signage is required to be 730-45-02 - ASTM Type III (Class B) as per NYS Standard Specifications: Construction and Materials. Hi-intensity reflective sheeting
- often referred to as high intensity. It is recommended for highway signs, construction signs, delineators, and other work zone devices.
- Work zone is required to be properly delineated with cones or construction barrels.
- Orange County reserves the right to preclude all work and lane closures during any inclement weather or other unforeseen circumstances (i.e. wet, icy conditions, reduced visibility, traffic accidents on state, county, town or village road, or other emergencies).
- No lane closures will be permitted from 12 noon prior to a holiday and until 10 am the day after the holiday.
- Flaggers shall not control more than one approach at any time throughout the duration of the work zone. Additional flaggers are required to control all approaches in a work zone.
- Eighteen (18) inch stop and slow paddles are required to direct traffic.
- Two way radios are required for flaggers to communicate between each other.



#### TOWN OF CHESTER BULK REQUIREMENTS

##### "SR-1" ZONING DISTRICT

(WITHOUT CENTRAL WATER AND SEWER)

##### MINIMUM REQUIRED

LOT AREA (AC.)	1
LOT WIDTH (FT.)	150
FRONT YARD (FT.)	60
REAR YARD (FT.)	60
SIDE YARD (FT.)	30
BOTH SIDE YARDS (FT.)	60

##### MAXIMUM ALLOWED

BUILDING HEIGHT (FT.)	35
LOT COVERAGE (%)	10

##### PROVIDED

LOT #1	LOT #2	LOT #3	LOT #4	LOT #5	LOT #6	LOT #7	LOT #8	LOT #9	LOT #10
3.9±	2.8±	2.7±	2.5±	2.4±	1.9±	1.5±	1.6±	1.3±	1.5±
247±	198±	200±	168±	165±	120±	150±	150±	150±	264±
194±	271±	226±	182±	157±	142±	135±	100±	88±	94±
263±	285±	312±	354±	429±	75±	265±	330±	215±	266±
74±	63±	52±	55±	41±	67±	40±	38±	38±	51±
220±	143±	144±	120±	103±	185±	83±	89±	89±	116±
<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
3±	4±	4±	4±	4±	7±	6±	5±	6±	6±



#### RECORD OWNER / APPLICANT

RIDGE ROAD EQUITIES, LLC  
C/O/ SATIN FINE FOODS INC  
32 LEONE LANE 1  
CHESTER, NY 10918

#### SHEET INDEX

SHEET #1	- COVER SHEET
SHEET #2	- SUBDIVISION PLAT
SHEET #3	- SUBDIVISION PLAN
SHEET #4	- SUBDIVISION PLAN
SHEET #5	- EROSION CONTROL PLAN
SHEET #6	- EROSION CONTROL DETAILS
SHEET #7	- SANITARY DETAILS
SHEET #8	- SITE DETAILS

#### HEALTH DEPARTMENT APPROVAL

#### ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS NOTES:

- NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.
- THE VEGETATIVE DRIP EDGE, AT MATURITY, SHALL NOT PROJECT INTO THE COUNTY R.O.W.
- NO SIGNS SHALL BE PLACED WITHIN, OR PROJECT INTO, THE COUNTY R.O.W.

#### GENERAL NOTES:

- PORTION OF TOWN OF CHESTER TAX PARCEL SEC. 17, BLK 1, LOT 99.21.
- TOTAL AREA OF THIS PARCEL = 22.2 ACRES
- PARCEL LIES WITHIN THE SR-1 ZONING DISTRICT.
- PARCEL SITUATED WITHIN THE CHESTER FIRE DISTRICT.
- PARCEL LOCATED WITHIN THE WARWICK VALLEY CENTRAL SCHOOL DISTRICT.
- TOTAL NUMBER OF LOTS PROPOSED IN THIS SUBDIVISION = 10.
- EXISTING OFF SITE FEATURES TAKEN FROM PUBLICLY AVAILABLE DATA. TOPOGRAPHY OBTAINED FROM ORANGE COUNTY 2 FT TOPOGRAPHIC DATA.
- LOT TO BE SERVED BY INDIVIDUAL WELL AND SEPTIC SYSTEM.
- THERE ARE NO KNOWN EXISTING WELLS & SEPTIC WITHIN 100' OF ANY PROPOSED WELLS OR SEPTIC.
- INDIVIDUAL WELLS AND SANITARY DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED FOR HOUSEHOLD DOMESTIC PURPOSES WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWERAGE SYSTEM IS REQUIRED WITHIN ONE YEAR OF THE SYSTEM BECOMING AVAILABLE.
- ALL NEW UTILITIES SHALL BE INSTALLED UNDER GROUND.
- THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER) SHALL NOT BE CHANGED.
- THE PURCHASER OF THE LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES INCLUDING A NYS DEC WELL COMPLETION REPORT. THE PURCHASER SHALL ALSO BE ADVISED OF ANY ROUTINE OR SPECIAL MAINTENANCE PROCEDURES THAT MAY BE NECESSARY FOR THE PROPOSED SANITARY FACILITIES. REFER TO PAGES 58-61 OF THE NYSDOH DESIGN HANDBOOK FOR RECOMMENDED ROUTINE OPERATION AND MAINTENANCE ITEMS.
- BOUNDARY BASED ON SURVEY PROVIDED BY JEFFREY W. DONNELLON L.S., P.C.
- THIS PROJECT LIES WITHIN THE TOWN OF CHESTER RPO DISTRICT. ANY PROPOSED DEVELOPMENT WITHIN THE RPO DISTRICT SHALL BE IN ACCORDANCE WITH SECTION 98-26 OF THE TOWN OF CHESTER ZONING LAW.

#### PLANNING BOARD APPROVAL

Lands of

**O'REILLY**

TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

PROJECT TITLE

**COVER SHEET**

DRAWING TITLE

**KIRK ROTHER, P.E.**  
CONSULTING ENGINEER, PLLC

5 St. Stephens Lane, Warwick, NY 10990  
(845) 988-0620

DATE	DESCRIPTION	KIRK ROTHER, P.E.	N.Y.S. LIC. NO. 079053	DATE
09-18-19	DETAILED DESIGN			
10-04-18	ADD SIGHT DISTANCE TO DRIVEWAYS			
09-11-18	INITIAL PREPARATION			
D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #	
N.A.	N.A.	N.A.		
CAD # 03125	PROJECT #	SCALE		
9-2018	03125.0	AS SHOWN		

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.



**ORANGE COUNTY DEPARTMENT  
OF PUBLIC WORKS NOTES:**

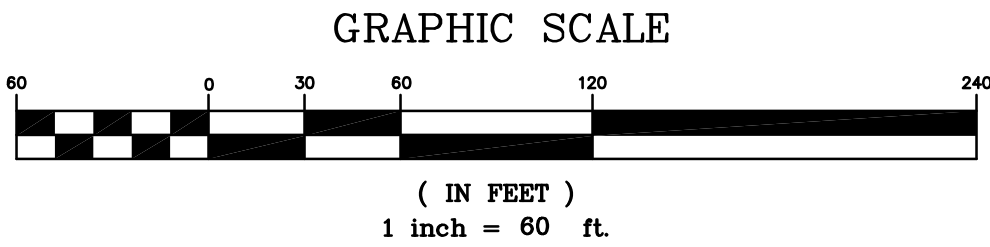
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Lands of  
**O'REILLY**  
TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

PROJECT TITLE  
**SUBDIVISION  
PLAT**

DRAWING TITLE  
**KIRK ROTHER, P.E.**  
CONSULTING ENGINEER, PLLC  
5 St. Stephens Lane, Warwick, NY 10990  
(845) 988-0620

- LEGEND**
- EXISTING PROPERTY LINE
  - PROPOSED PROPERTY LINE
  - PROPOSED BUILDING SETBACK
  - EXISTING STONEWALL
  - EXISTING EDGE OF PAVEMENT
  - PROPOSED EDGE OF PAVEMENT
  - FOUND IRON PIPE
  - PROPOSED PIN SET

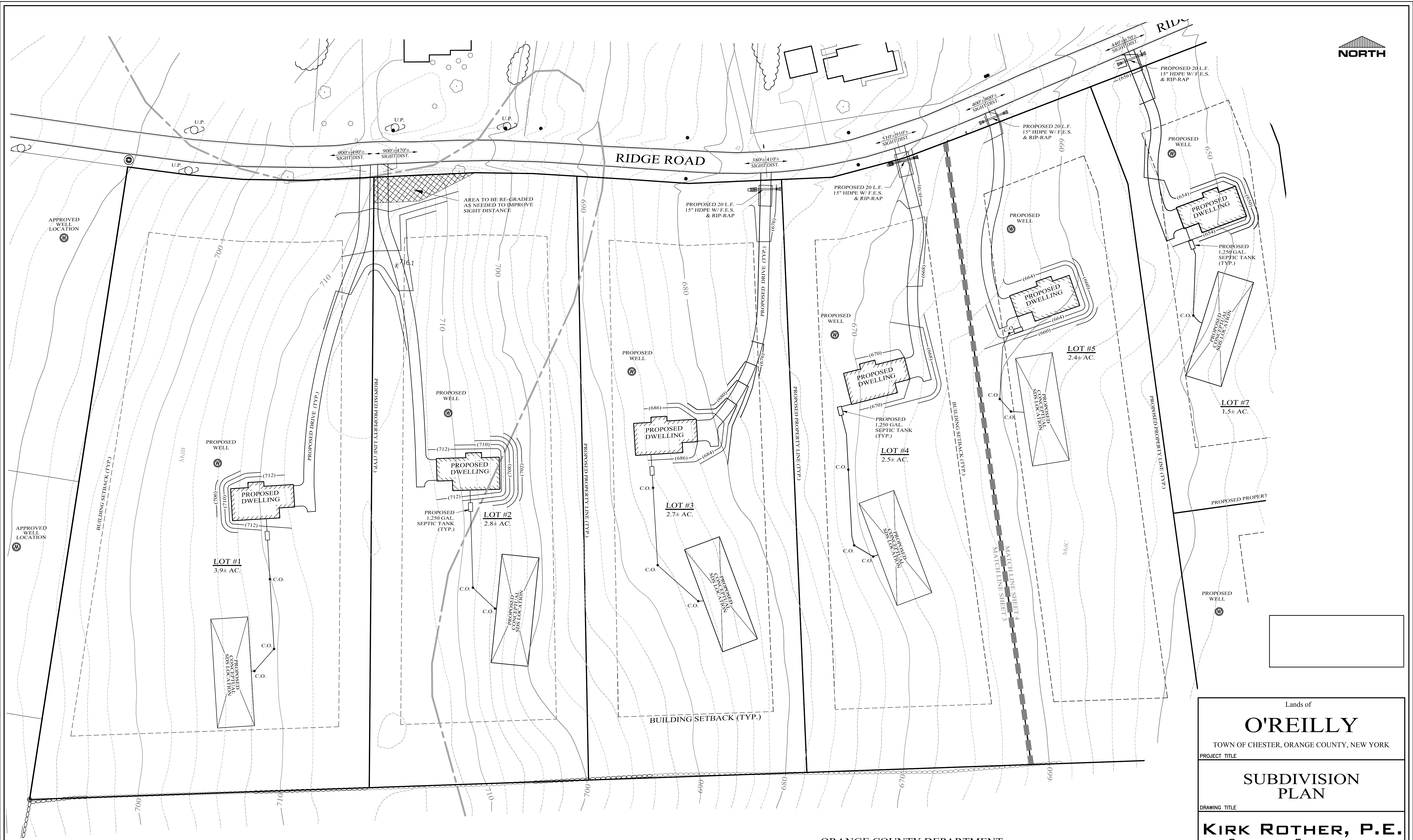


09-18-19		INITIAL PREPARATION		KIRK ROTHER, P.E.		N.Y.S. LIC. NO. 079053		DATE	
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N.A.		N.A.		N.A.					
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2 OF 8

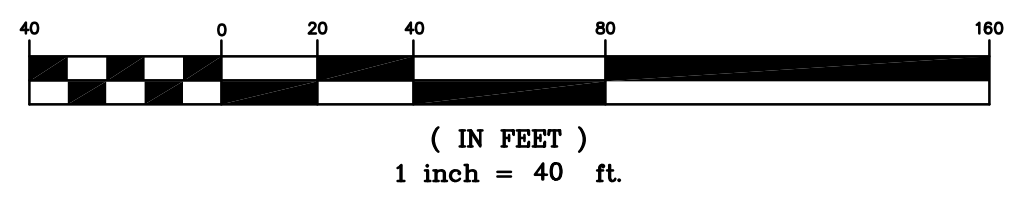




LEGEND

EXISTING PROPERTY LINE	---
PROPOSED PROPERTY LINE	---
PROPOSED BUILDING SETBACK	---
EXISTING STONEWALL	---
EXISTING EDGE OF PAVEMENT	---
PROPOSED EDGE OF PAVEMENT	---
10' CONTOUR LINE	---
2' CONTOUR LINE	---
PROPOSED CONTOUR LINE	---
EXISTING UTILITY POLE	---
USDA SOILS BOUNDARY	---

GRAPHIC SCALE



ORANGE COUNTY DEPARTMENT  
OF PUBLIC WORKS NOTES:

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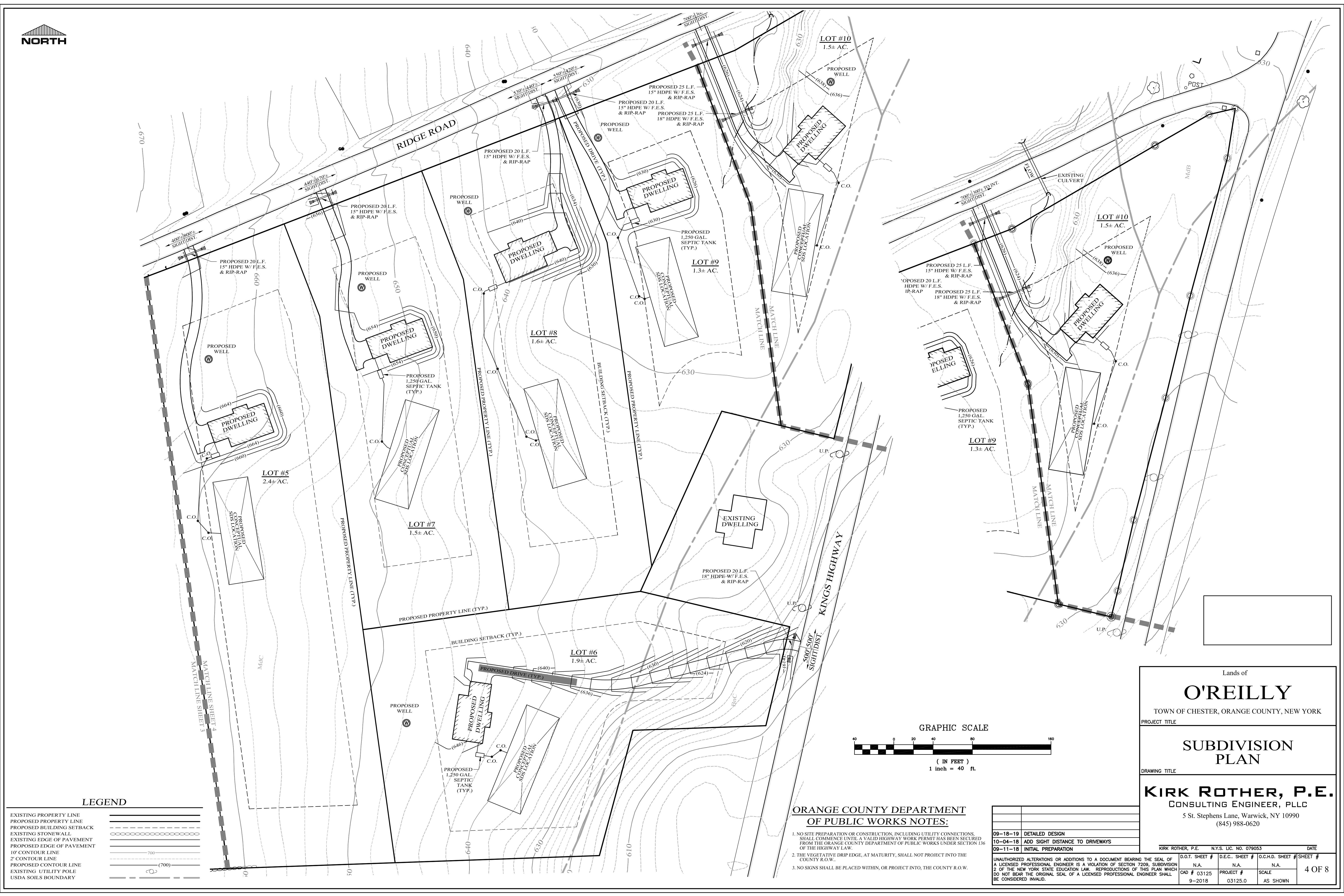
09-18-19	DETAILED DESIGN	KIRK ROTHER, P.E.	N.Y.S. LIC. NO. 079053	DATE
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PROJECT TITLE

**SUBDIVISION  
PLAN**  
DRAWING TITLE

**KIRK ROTHER, P.E.**  
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5 St. Stephens Lane, Warwick, NY 10990  
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EXISTING PROPERTY LINE  
PROPOSED PROPERTY LINE  
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10' CONTOUR LINE  
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PROPOSED CONTOUR LINE  
EXISTING UTILITY POLE  
USDA SOILS BOUNDARY

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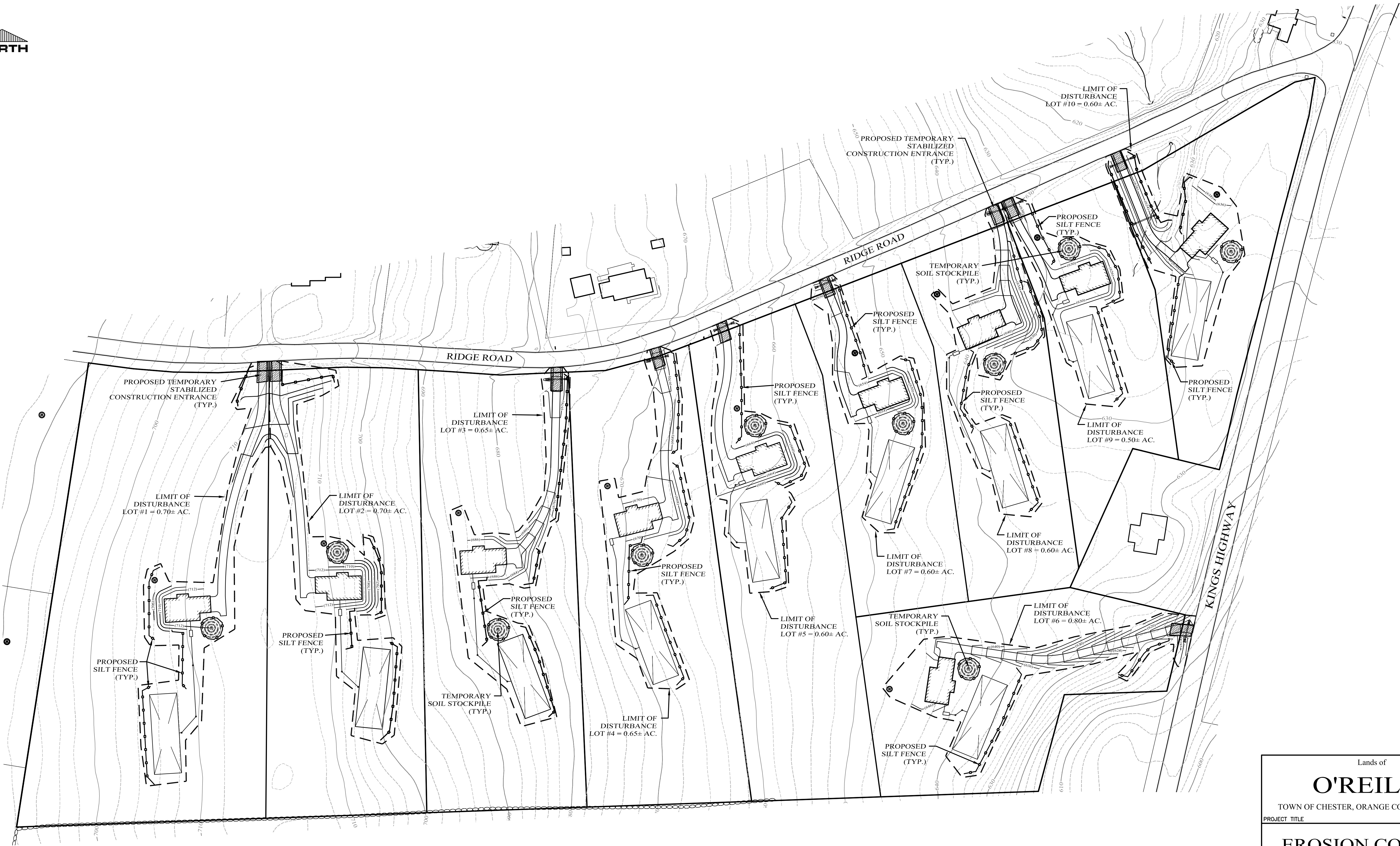
( IN FEET )  
1 inch = 40 ft.

KIRK ROTHER, P.E.		N.Y.S. LIC. NO. 079053		DATE
BEARING THE SEAL OF N 7209, SUBDIVISION OF THIS PLAN WHICH L ENGINEER SHALL	D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
	N.A.	N.A.	N.A.	
	CAD # 03125	PROJECT #	SCALE	4 OF 8
	9-2018	03125.0	AS SHOWN	

09-18-19	DETAILED DESIGN
10-04-18	ADD SIGHT DISTANCE TO DRIVEWAYS
09-11-18	INITIAL PREPARATION

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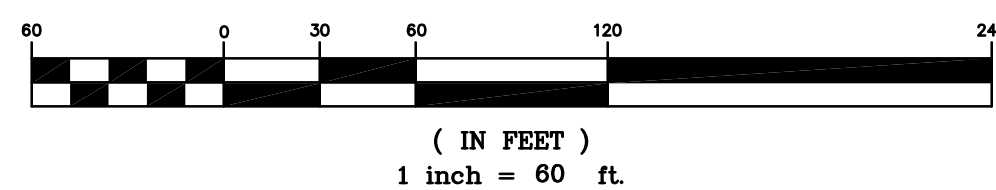




LEGEND

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PROPOSED PROPERTY LINE	
PROPOSED BUILDING SETBACK	
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PROPOSED EDGE OF PAVEMENT	
10' CONTOUR LINE	
2' CONTOUR LINE	
PROPOSED CONTOUR LINE	
EXISTING UTILITY POLE	
USDA SOILS BOUNDARY	
PROPOSED SILT FENCE	
PROPOSED TEMP. SOIL STOCKPILE	
PROPOSED TEMP. STABILIZED CONSTRUCTION ENTRANCE	

GRAPHIC SCALE



ORANGE COUNTY DEPARTMENT  
OF PUBLIC WORKS NOTES:

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D.O.T. SHEET #	N.A.	D.E.C. SHEET #	N.A.	O.C.H.D. SHEET #	SHEET #	5 OF 8	
2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.	CAD # 03125	PROJECT #	03125.0	SCALE	AS SHOWN		
9-2018							

Lands of  
**O'REILLY**  
TOWN OF CHESTER, ORANGE COUNTY, NEW YORK  
PROJECT TITLE  
**EROSION CONTROL PLAN**  
DRAWING TITLE  
**KIRK ROTHER, P.E.**  
CONSULTING ENGINEER, PLLC  
5 St. Stephens Lane, Warwick, NY 10990  
(845) 988-0620

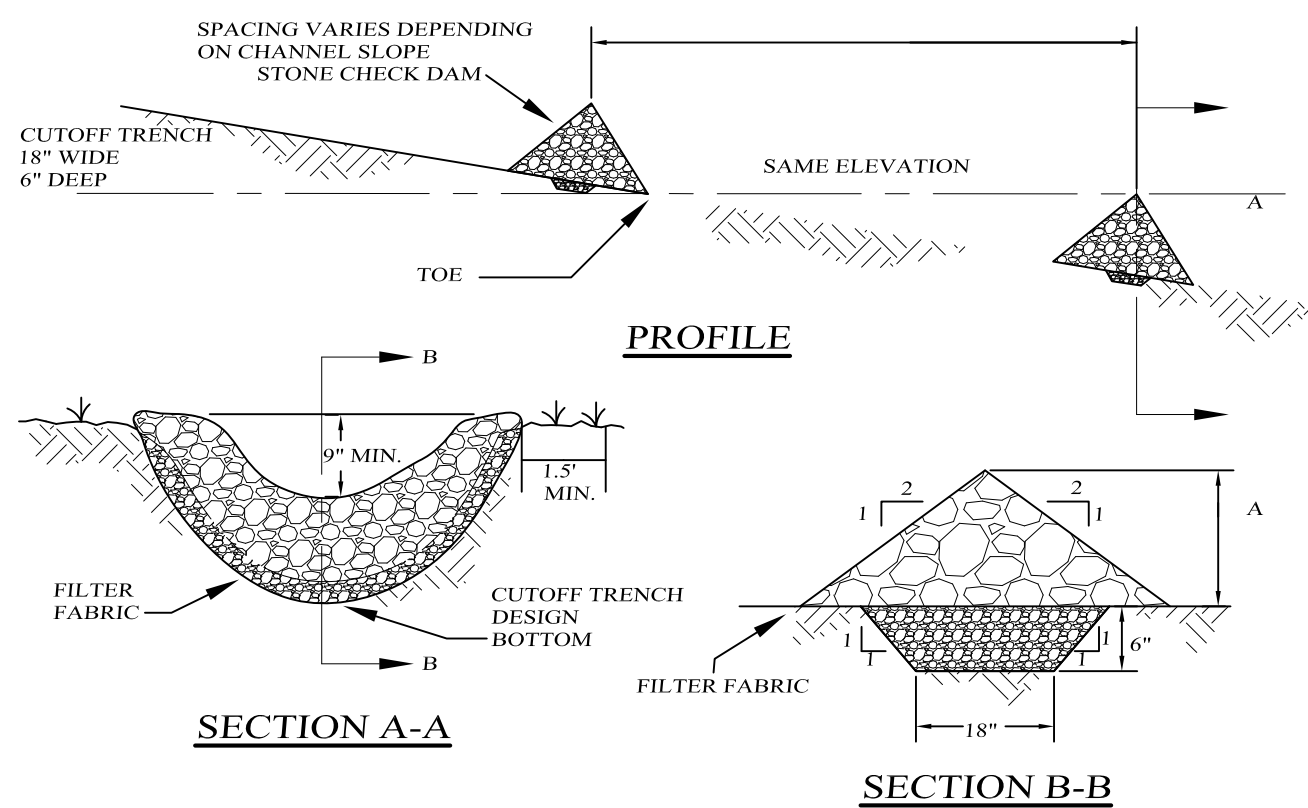
Diagram illustrating the trench for a geotextile filter fabric:

- 2" x 2" FENCE POST SPACED 8'-0" O.C. MAX.
- 36" WIDE GEOTEXTILE SPECIFIED FOR USE AS SILT FENCE.
- 5" WIDE x 6" DEEP TRENCH BOTTOM 1" OF FABRIC
- GRADE
- 2'-0"
- 2'-0"

NOTES:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED
3. ALL SILT FENCES SHALL RUN PARALLEL TO THE CONTOUR OF THE LAND.
4. ALL SILT FENCING SHALL MEET THE MINIMUM REQUIREMENTS AS STATED UNLESS OTHERWISE NOTED AND APPROVED BY THE BUILDING INSPECTOR AND ENGINEER.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE

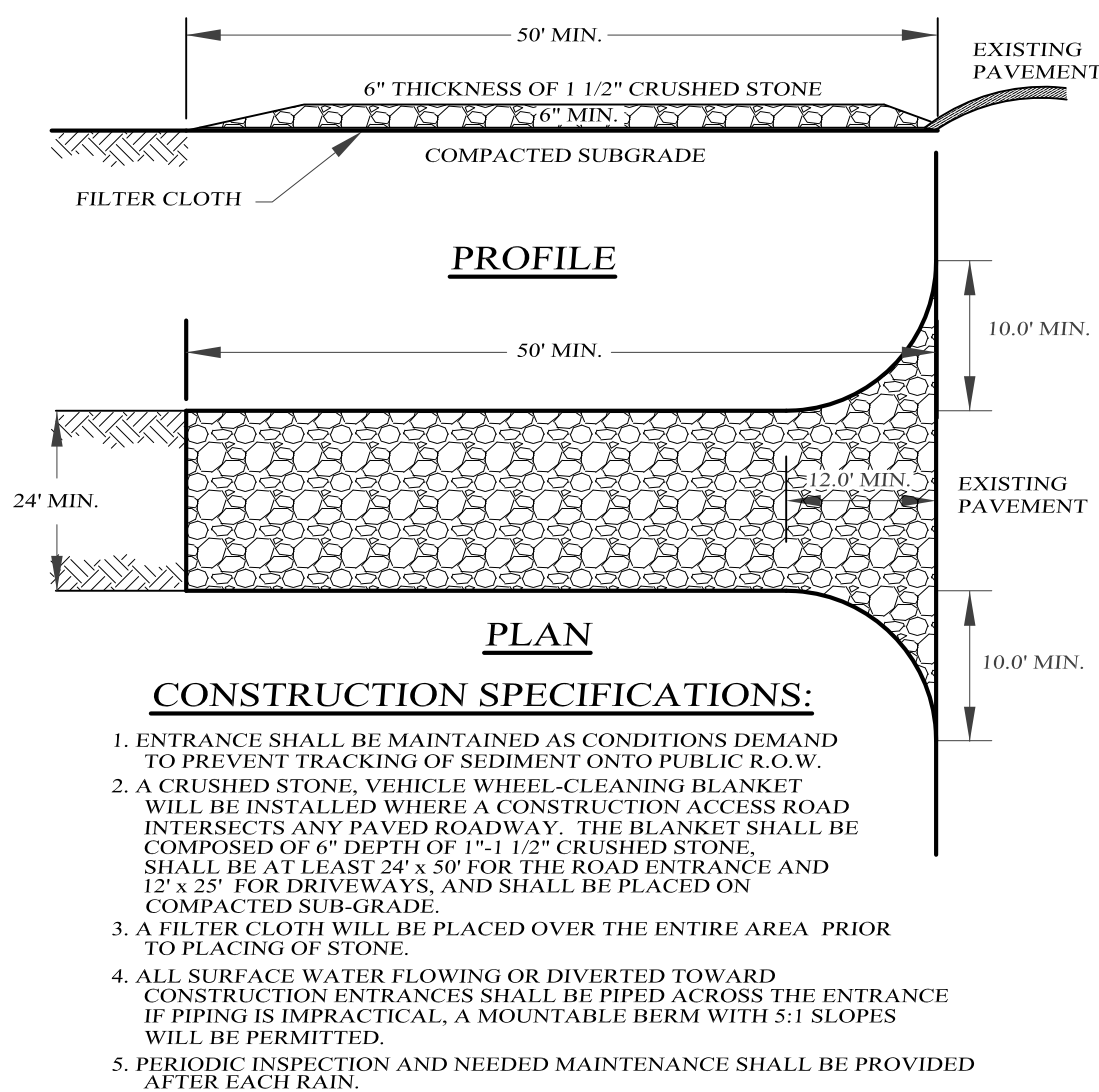
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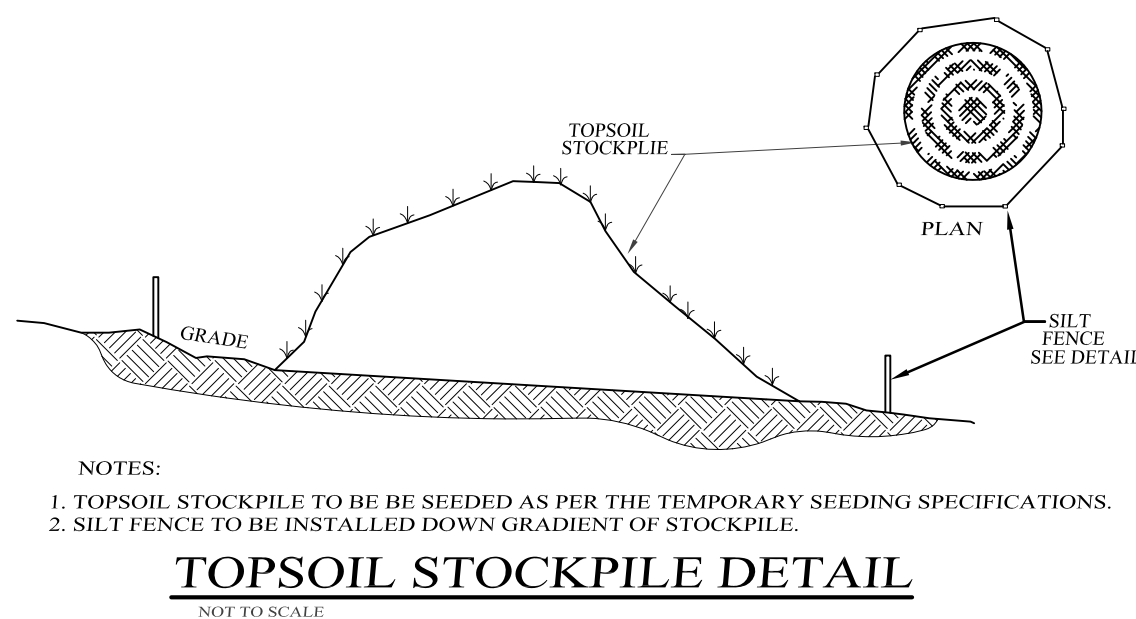
## SECTION B-E

- CONSTRUCTION SPECIFICATIONS:**
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
  2. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATION OF THE CREST OF THE DOWN STREAM DAM IS THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
  3. EXTEND THE STONE A MINIMUM OF 15 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AND EROSION OF THE DAM.
  4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
  5. ENSURE THAT CHANNEL APERTURES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPERSED STONES.
  6. MAXIMUM DRAINAGE AREA IS 2.2 ACRES ABOVE EACH CHECK DAM.

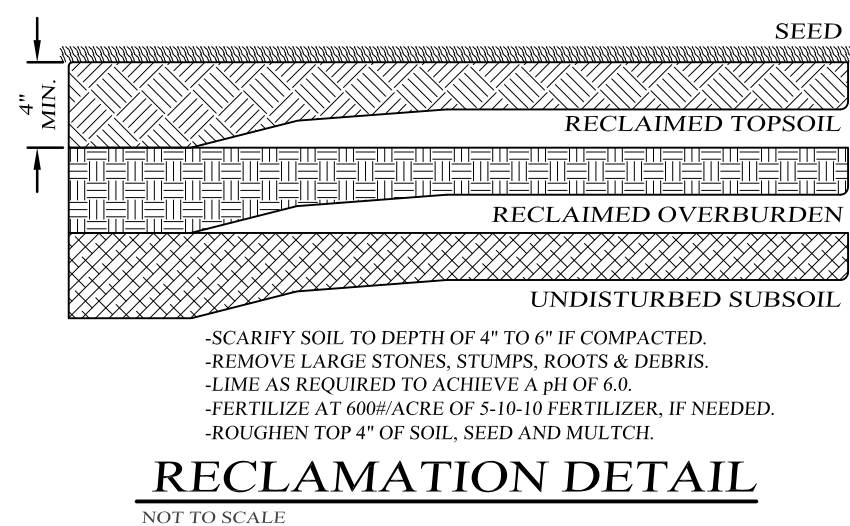
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MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS	
SPECIES	APPLICATION RATE
EMPIRE BIRDSFOOT TREFLOIL	8 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
	5 LBS/ACRE
GENERAL RECREATION AREAS AND LAWNS	
SPECIES	APPLICATION RATE
SUNNY SITES (WELL, MODERATELY WELL AND SOMEWHAT POORLY DRAINED SOILS)	
65% KENTUCKY BLUEGRASS BLEND	85-114 LBS/ACRE
20% PERENNIAL RYEGRASS	26-35 LBS/ACRE
15% FINE FESCUE	19-26 LBS/ACRE
SUNNY DROUGHTY SITES (SOMEWHAT TO EXCESSIVELY DRAINED SOILS)	
65% FINE FESCUE	114-141 LBS/ACRE
15% PERENNIAL RYEGRASS	26-35 LBS/ACRE
20% KENTUCKY BLUEGRASS BLEND	35-44 LBS/ACRE

- A. INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEEDDED TO DESIRED GRADES USING A MINIMUM OF 4" OF TOPSOIL.
- B. PREPARE SEED BED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES
- C. LIME TO A pH OF 6.5
- D. FERTILIZE PER SOIL TESTS, OR, IF FERTILIZERS TO BE APPLIED TO THE ENTIRE SEED BED, APPLY 800 POUNDS OF 5-10-10 OR EQUIVALENT PER ACRE (20 LBS. / 1000 SQ. FT.)
- E. INCORPORATE LIME AND FERTILIZER IN TOP 4 INCHES OF SOIL.
- F. SMOOTH. REMOVE ALL STONES OVER 1" IN DIAMETER, STICKS AND FOREIGN MATTER. FIRM SEED BED
- G. APPLY SEED FOR PERMANENT SEEDING SCHEME.

SLOPES OF 4:1 OR GREATER (HORIZONTAL:VERTICAL)  
SLOPES SHALL BE HYDROSEEDED WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BioD-Mesh60 NETTING AS MANUFACTURED BY RoLANKA INTERNATIONAL OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

AREAS SHALL BE SEEDDED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS/ACRE. BROADCAST AREAS SHALL MULCHED WITH HAY OR STRAW AT A RATE OF 2 TONS/ACRE. AREAS SEEDDED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PACKED PRIOR TO PLACING MULCH.

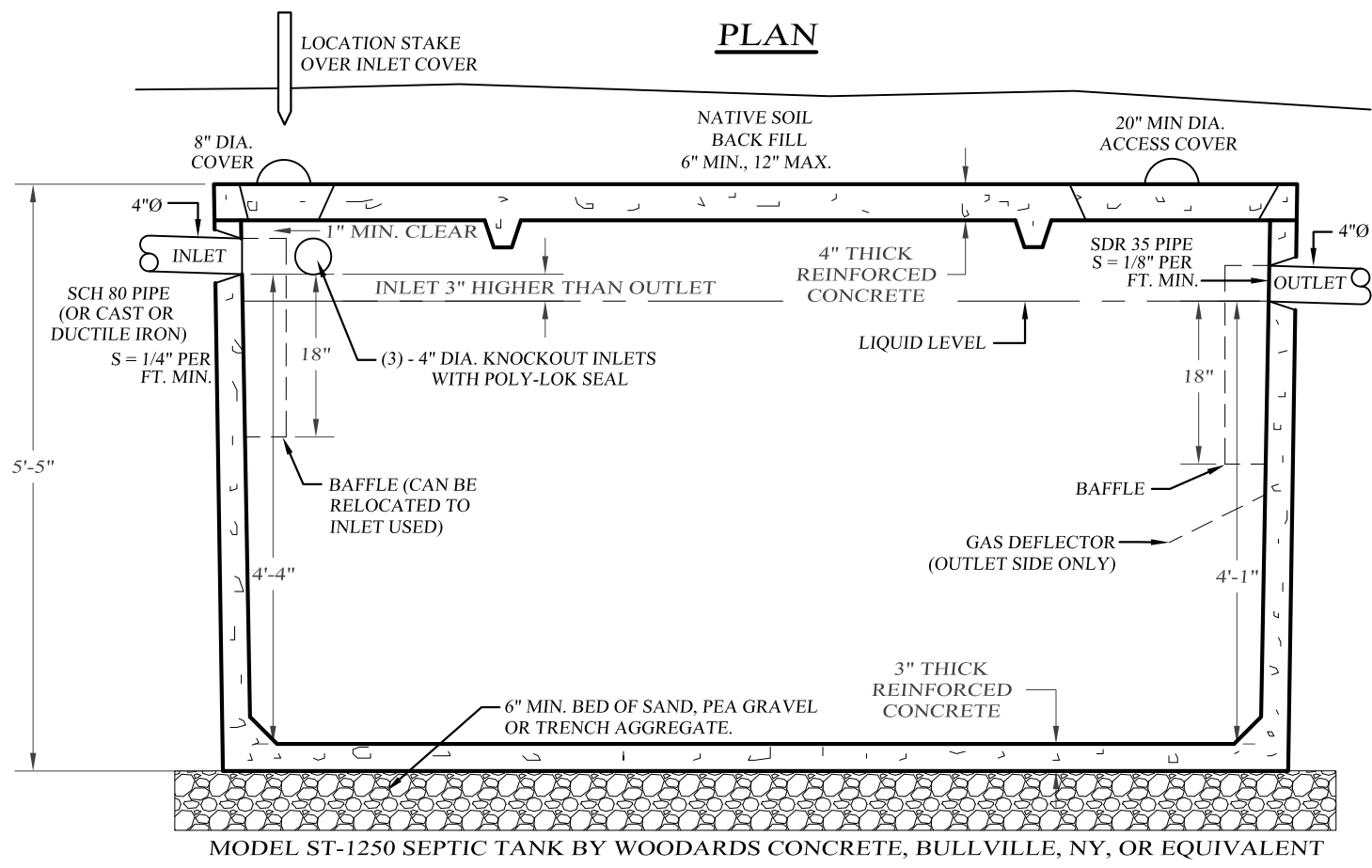
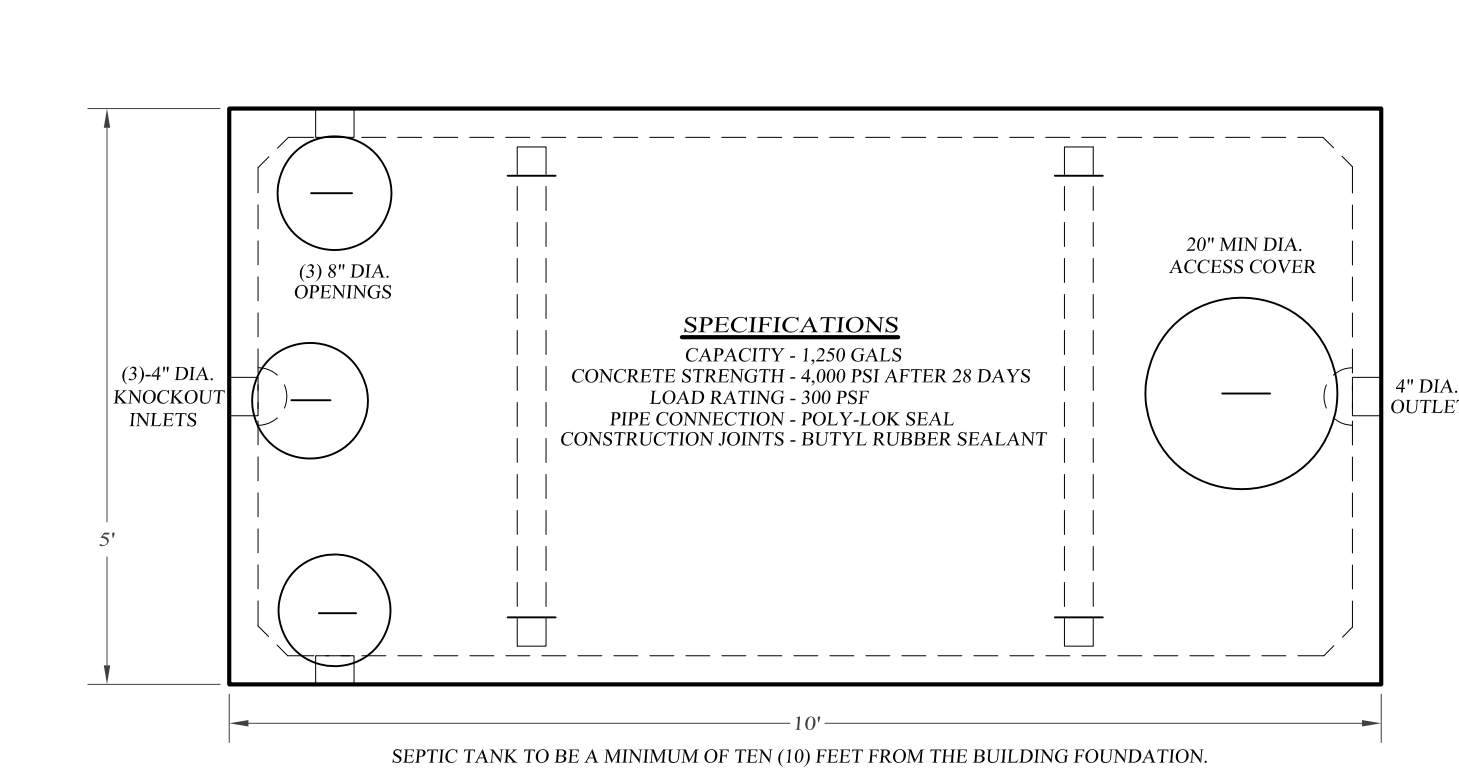
AREAS REMAINING DISTURBED FOR 14 DAYS OR MORE SHALL BE STABILIZED AS FOLLOWS:  
 SCARIFY SOILS IF COMPACTED, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH  
 600 LBS/ACRE 5-10-10 FERTILIZER IF REQ., SEED WITH SPECIES AND RATE SHOWN BELOW,  
 MULCH WITH HAY OR STRAW AT A RATE OF 2 TONS/ACRE, ANCHOR MULCH WITH  
 NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT./NOV.)	APPLICATION RATE 30 LBS/ACRE (0.7 LBS/1000 SF)
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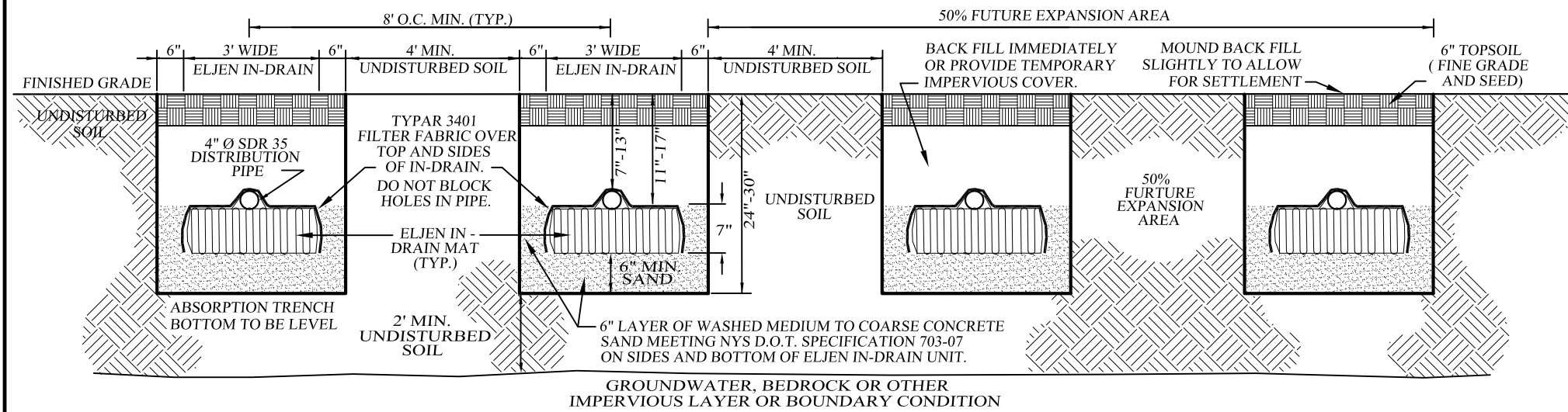
09-18-19	INITIAL PREPARATION
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 1-2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER BE CONSIDERED INVALID.	

D.O.T. SHEET # N.A.	D.E.C. SHEET # N.A.	O.C.H.D. SHEET # N.A.	SHEET #  6 OF 8
CAD # 03125 9-2018	PROJECT # 03125.0	SCALE AS SHOWN	



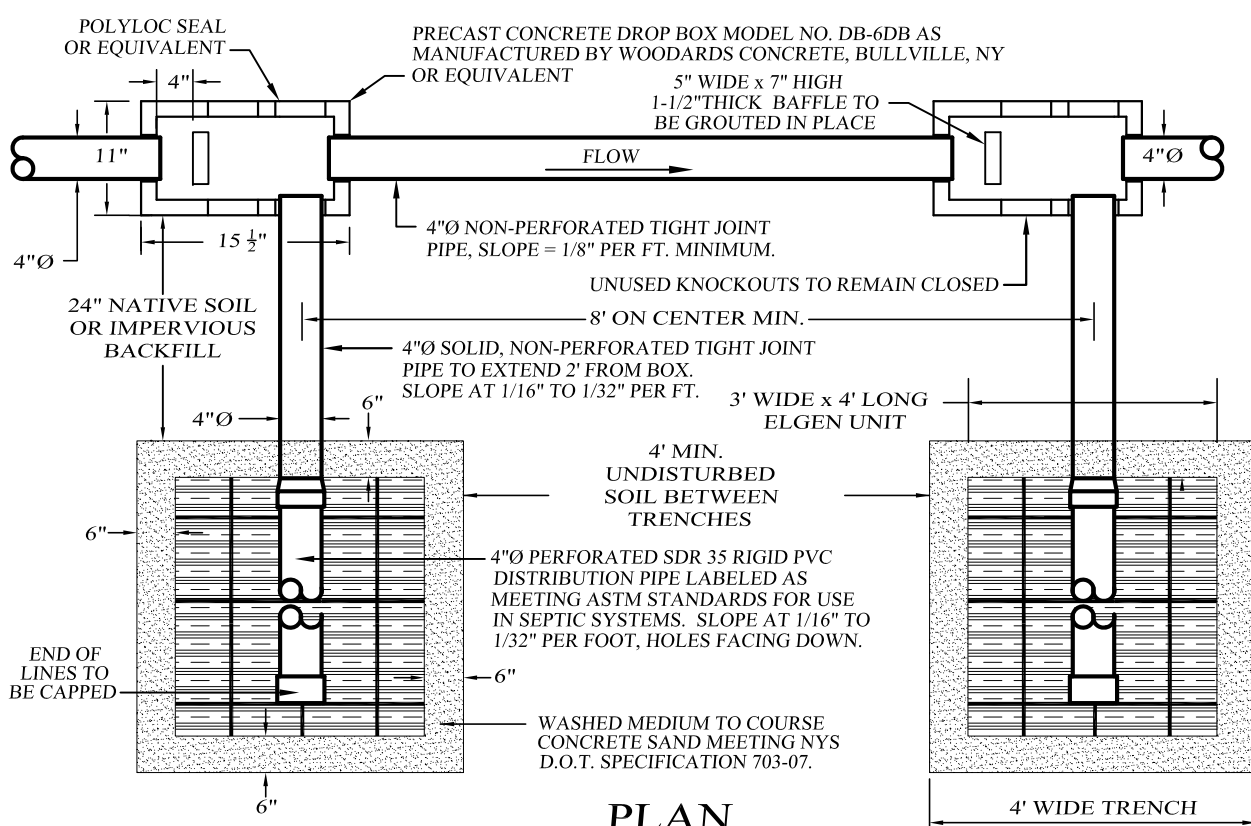


**SEPTIC TANK DETAIL**  
NOT TO SCALE



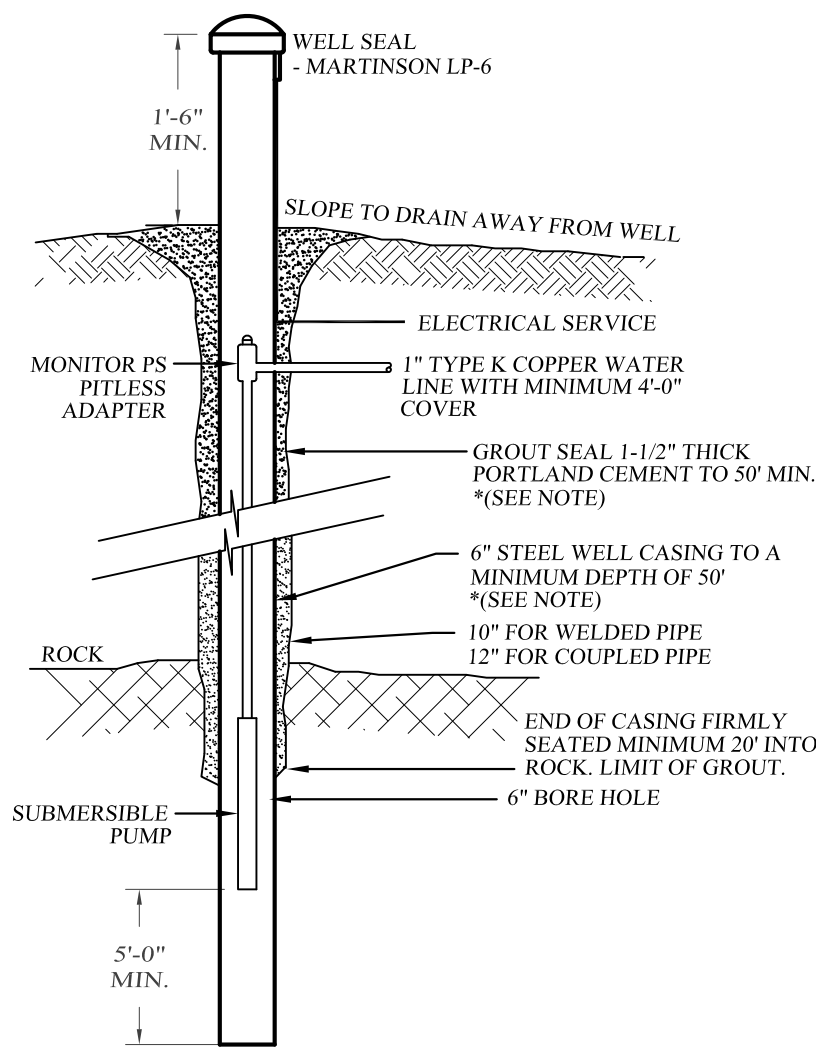
**CONSTRUCTION SPECIFICATIONS:**

- TRENCH BOTTOMS SHALL BE LEVEL. TRENCHES SHALL BE PARALLEL TO GROUND CONTOURS.
- ON SLOPED SITES, A DIVERSION SWALE SHALL BE CONSTRUCTED UPHILL OF THE SEPTIC FIELD TO PREVENT SURFACE WATER RUNOFF ONTO THE SEPTIC FIELD.
- CONCRETE SAND SHALL ADHERE TO THE NYS D.O.T. CONCRETE SAND SPEC 703-07 AS REQUIRED BY THE OCHD.
- SEE SEPTIC SYSTEM NOTES FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
- SEE ELJEN IN-DRAIN DESIGN AND INSTALLATION MANUAL FOR ADDITIONAL DETAILS.
- ELJEN IN-DRAIN AVAILABLE IN NEW YORK STATE THROUGH RYCO ASSOCIATES, TROY, NY, 888-490-2989.



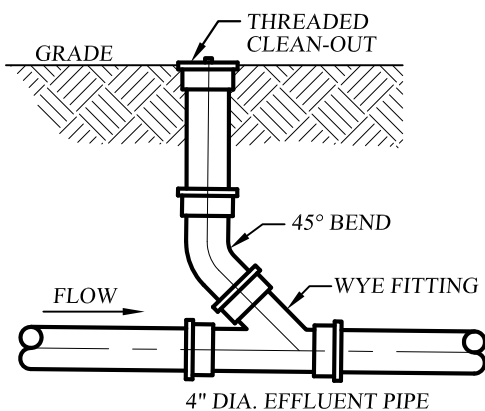
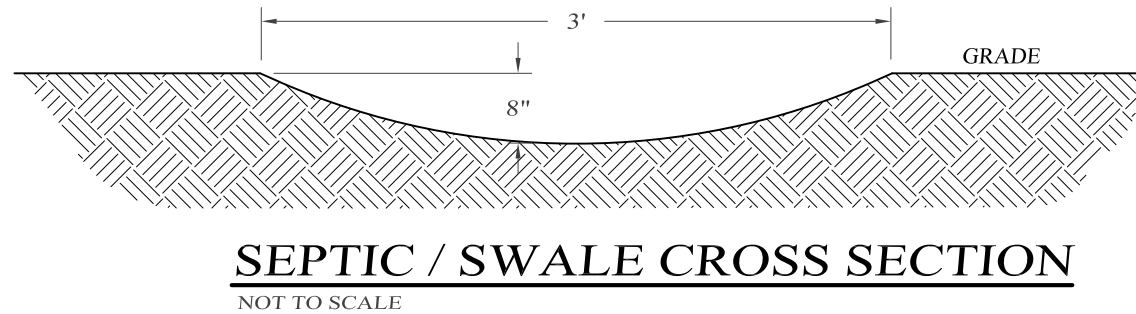
**TYPICAL SECTION ELJEN IN-DRAIN SYSTEM**  
NOT TO SCALE

NYS D.O.T. SPEC. 703-07 CONCRETE SAND			
SIEVE SIZE	% PASSING	MIN.	MAX.
3/8 IN.	100	100	
NO. 4	90	100	
NO. 8	75	100	
NO. 16	50	85	
NO. 30	25	60	
NO. 50	10	30	
NO. 100	1	10	
NO. 200 (WET)	0	3	



**WATER SYSTEM NOTES**

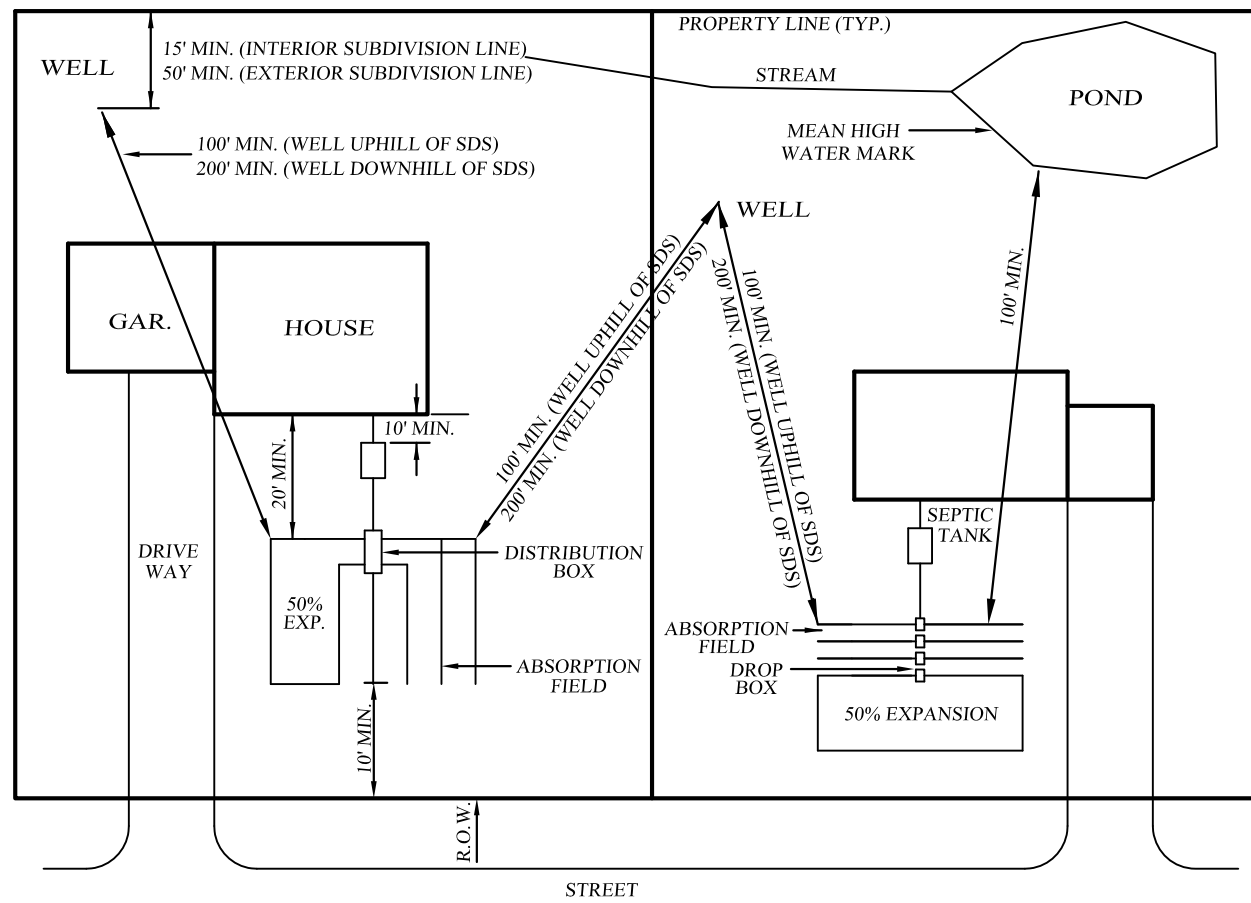
- WELL CONSTRUCTION SHALL CONFORM TO THE MINIMUM STANDARDS SET FORTH BY THE N.Y.S. DEPARTMENT OF HEALTH FOR RURAL WATER SUPPLY.
- SOFTENING OF HARD WATER WELL IS AT THE DISCRETION OF THE HOMEOWNER AND SHOULD BE CONSIDERED ONLY IF EXCESSIVE HARDNESS IS FOUND. (GREATER THAN 150 MG/L).
- THE LOCATION OF WELLS AND SEPTIC FIELDS SHALL NOT BE CHANGED.
- FOOTING DRAINS WITHIN 25 FEET OF A WELL SHALL BE WATERTIGHT.
- WELLS MUST BE INSTALLED AT LEAST 100 FEET FROM ALL SEPTIC SYSTEMS AND 200 FEET FROM ANY SEPTIC SYSTEM WHICH IS UPHILL FROM THE WELL.
- A MINIMUM OF 50' CASING & GROUT SHALL BE PROVIDED UNLESS DOCUMENTED BY THE NYS LICENSED WELL DRILLER AT THE TIME OF DRILLING THAT THE HIGHEST WATER BEARING FEATURE ENCOUNTERED IS AT A MIN. DEPTH OF 50' BELOW GROUND LEVEL.
- WELL CASING ABOVE GRADE SHALL BE A MINIMUM OF 24" ABOVE THE 100 YEAR FLOOD LEVEL.



**NOTES:**

- THE MAXIMUM DISTANCE BETWEEN POINTS OF POSSIBLE CLEAN-OUT SHALL BE 75 FEET.
- BENDS SHALL BE AVOIDED IF POSSIBLE, HOWEVER, IF BENDS ARE REQUIRED, A CLEAN-OUT SHALL BE INSTALLED AT EACH SUCH BEND.

**SEWER CLEAN-OUT DETAIL**  
NOT TO SCALE



**REQUIRED SEPARATION DISTANCE FROM WASTEWATER SYSTEM COMPONENTS**

SYSTEM COMPONENTS	WELL (f) OR SUCTION LINE	TO STREAM/LAKE WATERCOURSE (b), OR WETLAND	DWELLING	PROPERTY LINE	DRAINAGE DITCH (b),(g)	MIN. SLOPE
HOUSE SEWER (WATERTIGHT JOINTS)	25' IF CAST IRON OR PVC WITH O-RING JOINTS, 50' OTHERWISE	25'	3'	10'	-	1/4" / FT.
SEPTIC TANK	50'	50'	10'	10'	10'	-
EFFLUENT LINE TO DISTRIBUTION BOX	50'	50'	10'	10'	10'	1/8" / FT.
DISTRIBUTION BOX	100'	100'	20'	10'	50'	-
ABSORPTION FIELD	100' (a)	100'	20'	10'	50'	1/16"-1/32" / FT.

**NOTES:**

- WHEN SEWAGE TREATMENT SYSTEMS ARE LOCATED IN COARSE GRAVEL OR UPGRADE AND IN THE GENERAL PATH OF DRAINAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM SHALL BE AT LEAST 200 FT. AWAY FROM THE WELL.
- MEAN HIGH WATER MARK.
- FOR ALL SYSTEMS INVOLVING THE PLACEMENT OF FILL MATERIAL, SEPARATION DISTANCES ARE MEASURED FROM THE TOP OF THE SLOPE OF THE FILL.
- ANY WATER SERVICE LINE UNDER PRESSURE (I.E., PUBLIC WATER SUPPLY MAIN, HOUSEHOLD SERVICE LINE, WELL TO HOUSEHOLD SERVICE LINE) LOCATED WITHIN TEN FT. OF ANY ABSORPTION FIELD, SEEPAGE PIT OR SANITARY PRIVY SHALL BE INSTALLED INSIDE A LARGER DIAMETER WATER MAIN TO PROTECT THE POTABLE WATER SUPPLY.
- ANY WATER SERVICE LINE UNDER PRESSURE (I.E., PUBLIC WATER SUPPLY MAIN, HOUSEHOLD SERVICE LINE, WELL TO HOUSEHOLD SERVICE LINE) CROSSING A SEWER SHALL BE INSTALLED WITH ONE FULL LENGTH OF WATER MAIN CENTERED ABOVE THE SEWER SO BOTH WATER CONNECTING JOINTS ARE AS FAR AS POSSIBLE FROM THE SEWER. SECTION 8.6 OF THE G.L.U.M.R.B. RECOMMENDED STANDARDS FOR WATER WORKS, SHALL BE FOLLOWED FOR SEPARATION OF WATER MAINS, SANITARY SEWERS AND STORM SEWERS.
- THE MINIMUM SEPARATION DISTANCE BETWEEN A SEPTIC TANK AND A COMMUNITY TYPE PUBLIC WATER SUPPLY WELL SHOULD BE AT LEAST 100 FT. DISTRIBUTION BOXES AND ABSORPTION FACILITIES (E.G., ABSORPTION TRENCHES, BEDS, SEEPAGE PITS, RAISED SYSTEMS, MOUND SYSTEMS, ETC.) SHOULD BE LOCATED AT LEAST 200 FT. FROM COMMUNITY TYPE PUBLIC WATER SUPPLY WELLS.
- RECOMMENDED SEPARATION DISTANCES.

ORANGE COUNTY D.O.H. REVISIONS AND ADDITIONS AS OF 10/2003

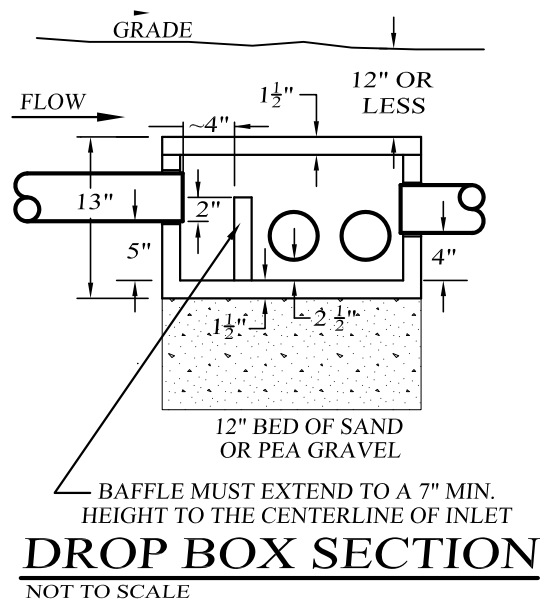
- SEPARATION: WELL TO SWALE, STREAM OR WATERCOURSE - 25'.
- SEPARATION: ABSORPTION FIELD TO OPEN DRAINAGE, CULVERT, STORM SEWER OR CATCH BASIN - 50'.
- SEPARATION: ABSORPTION FIELD TO CULVERT OR STORM SEWER (WITH GASKETED TIGHT PIPE) - 35'.
- SEPARATION: ABSORPTION FIELD TO CURTAIN DRAIN - 15'.
- SEPARATION: ABSORPTION FIELD, PITS, EXPANSION AREA, TO TOP OF EMBANKMENT OR STEEP (ON 3) SLOPE - 25'.
- SEPARATION: WELL TO CEMETERY PROPERTY LINE - 100'.
- DRAINAGE PIPES WITHIN 25' OF ANY WELL MUST BE WATERTIGHT.

**SEPTIC SYSTEM NOTES**

- SEPTIC SYSTEMS ARE DESIGNED TO CONFORM TO THE MINIMUM REQUIREMENTS SET FORTH BY N.Y.S. DEPARTMENT OF HEALTH APPENDIX 75A STANDARDS.
- A NEW YORK STATE PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NYS EDUCATION DEPT.) SHALL INSPECT THE SANITARY FACILITIES (WATER SUPPLY, ANY WATER TREATMENT, AND SEWAGE DISPOSAL FACILITIES) AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY OF THE DWELLING, THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS. A COPY OF THE NYSDEC WELL COMPLETION REPORT MUST ALSO BE PROVIDED.
- THE DESIGN AND LOCATION OF WELLS AND SEPTICS SHALL NOT BE CHANGED.
- THE SEPTIC DESIGN IS BASED ON THE SLOWEST PERCOLATION RATE IN THE AREA OF THE PROPOSED SYSTEM.
- ABSORPTION LINES USED WITH PRESSURE DISTRIBUTION OR DOSING SHALL NOT EXCEED 100 FEET IN LENGTH.
- ABSORPTION LINES USED WITH GRAVITY DISTRIBUTION SHALL NOT EXCEED 60 FEET IN LENGTH.
- SEWER RUNS SHALL NOT EXCEED 75' BETWEEN POINTS OF CLEAN OUT. AT LEAST ONE CLEAN OUT IS REQUIRED AND BENDS SHALL BE AVOIDED. IF BENDS MUST BE INSTALLED, A CLEAN OUT SHALL BE INSTALLED AT EACH BEND.
- SEPTIC FIELDS SHALL NOT BE CONSTRUCTED IN WET SOILS.
- TRENCHES SHALL BE INSTALLED PARALLEL TO CONTOURS. TRENCHES SHALL BE INSTALLED AS SHALLOW AS POSSIBLE WHILE STILL CONFORMING TO THE DIMENSIONAL REQUIREMENTS SHOWN IN THE CONSTRUCTION DETAILS. SIDES AND BOTTOM OF ABSORPTION LINE TRENCHES SHALL BE RAKED IMMEDIATELY PRIOR TO PLACING THE SAND.
- THE ENDS OF ALL DISTRIBUTION PIPES SHALL BE CAPPED.
- REGRADING IS NOT PERMITTED IN THE AREA OF THE ABSORPTION FIELD.
- 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.
- DRIVEWAYS, SWIMMING POOLS OR OTHER STRUCTURES WHICH CAN COMPACT THE SOIL SHALL NOT BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD.
- HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE TILE FIELD EXCEPT FOR THE ACTUAL CONSTRUCTION OF THE FIELD. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE AREA OF THE PROPOSED FIELD BEFORE, DURING AND AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
- THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, OR "JACUZZI" TYPE SPA TUBS OVER 100 GALLONS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SDS IS REDESIGNED TO ACCOUNT FOR THEM AND REAPPROVED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH.
- LAUNDRY WASTE SHALL DISCHARGE INTO THE SEPTIC SYSTEM.
- ROOF, CELLAR AND CURTAIN DRAINS SHALL NOT BE DISCHARGED INTO THE SEPTIC SYSTEM OR IN THE VICINITY OF THE TILE FIELD. FOOTING AND CURTAIN DRAINS SHALL RUN TO DAYLIGHT AND BE EQUIPPED WITH RODENT SCREENS.
- TOILETS OR SINKS IN THE BASEMENTS MAY REQUIRE SPECIAL DESIGN AND APPROVAL.
- SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.
- DISTRIBUTION BOXES / DROP BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.

**ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS NOTES:**

- NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.
- THE VEGETATIVE DRIP EDGE, AT MATURITY, SHALL NOT PROJECT INTO THE COUNTY R.O.W..
- NO SIGNS SHALL BE PLACED WITHIN, OR PROJECT INTO, THE COUNTY R.O.W.



Lands of

**O'REILLY**

TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

PROJECT TITLE

**SANITARY DETAILS**

DRAWING TITLE

**KIRK ROTHER, P.E.**  
CONSULTING ENGINEER, PLLC

5 St. Stephens Lane, Warwick, NY 10990  
(845) 988-0620

09-18-19 INITIAL PREPARATION		KIRK ROTHER, P.E.		N.Y.S. LIC. NO. 079053		DATE	
D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #	D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.		N.A.	N.A.	N.A.	
CAD # 03125	PROJECT #	SCALE		CAD # 03125	PROJECT #	SCALE	
9-2018	03125.0	AS SHOWN		9-2018	03125.0	AS SHOWN	



NOT TO SCALE



SECTION A-A

### RIP-RAP OUTLET DETAIL



**PIPE BEDDING AND BACKFILL**  
NOT TO SCALE **DETAIL**



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