

EXISTING TREELINE

# VILLAGE VIEW CLUSTER SUBDIVISION

VILLAGE OF WARWICK ORANGE COUNTY, NY





#### LOCATION MAP

SCALE: 1" = 2,000'

#### SHEET INDEX

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SHEET #5	SUBDIVISION PLAN					
SHEET #6	SUBDIVISION PLAN					
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SHEET #8	ROAD A PROFILE					
SHEET #9	ROAD A PROFILE					
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SHEET #11	EROSION CONTROL PLAN					
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#### **GENERAL NOTES:**

1. VILLAGE OF WARWICK TAX MAP DESIGNATION: SEC. 201, BLK. 1, LOTS 1.1, 1.2, 1.3 & 2. 2. TOTAL AREA OF PARCELS IN VILLAGE: 20.3± ACRES. 3. TOTAL AREA TO BE ANNEXED INTO VILLAGE FROM TOWN: 0.62± ACRES. 4. TOTAL AREA OF PROPOSED PARCELS IN VILLAGE: 20.92± ACRES. 5. ENTIRE PARCEL IS LOCATED IN THE R-1 ZONING DISTRICT. 6. TOTAL NUMBER OF RESIDENTIAL LOTS WITHIN THIS SUBDIVISION: 45 7. PARCEL IS LOCATED WITHIN THE WARWICK VALLEY CENTRAL SCHOOL DISTRICT. 8. PROPOSED SUBDIVISION TO BE SERVED BY VILLAGE OF WARWICK PUBLIC 9. BOUNDARY & TOPOGRAPHY INFORMATION SHOWN TAKEN FROM DRAWING ENTITLED: "SURVEY OF PROPERTY FOR RALPH FREDDOLINO" PREPARED BY JOHN McGLOIN, P.L.S. ON APRIL 6, 1993. 10. A.C.O.E. WETLANDS AS FLAGGED & VERIFIED BY: PETE TORGERSON APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON DEVELOPMENT FACTS AND THE REALTY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE

12. THE APPROVED PLANS MUST BE FILED WITH THE ORANGE COUNTY CLERK'S OFFICE PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 60 DAYS OF THE LAST APPROVAL OF THE FINAL PLANS.

13. ALL UTILITIES SHALL BE INSTALLED UNDER GROUND.

14. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER)

#### OPEN SPACE AREAS CALCULATION

= 29 + / -

RECORD OWNER / APPLICANT

ROBERT SILBER VILLAGE VIEW ESTATES, LLC 4 FOSSE COURT AIRMONT, N.Y.

#### VILLAGE VIEW CLUSTER SUBDIVISION

VILLAGE OF WARWICK, PROJECT TITLE ORANGE COUNTY, NEW YORK

> COVER SHEET

08-22-18	REV. PER ENGINEER'S COMMENTS	1/10
08-01-18	REV. PER ENGINEER'S COMMENTS	KIR
05-16-18	ADD SPRING	C
04-04-18	ADDITIONAL DESIGN	
03-01-18	DETAILED DESIGN	
10-05-17	GENERAL REVISIONS	
03-29-17	REV. PER VILLAGE ENGINEER'S COMMENTS	
02-12-16	INITIAL PREPARATION	

#### ROTHER, P.E. CONSULTING ENGINEER, PLLC

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

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053

CLUS 1-17 04170.0

REVISIONS 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.

N.A.

CAD # 04170 O





( IN FEET )

1 inch = 80 ft.

#### GENERAL NOTES:

1. VILLAGE OF WARWICK TAX MAP DESIGNATION: SEC. 201, BLK. 1, LOTS 1.1, 1.2, 1.3 & 2. 2. TOTAL AREA OF PARCEL: 20.3± ACRES.

#### VILLAGE VIEW CLUSTER SUBDIVISION

VILLAGE OF WARWICK, PROJECT TITLE ORANGE COUNTY, NEW YORK

#### **SUBDIVISION** PLAT

DRAWING TITLE

DATE

REVISIONS

KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC

5 St. Stephens Lane, Warwick, NY 10990

(845) 988-0620

CLUS 1-17

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF D.O.T. SHEET # D.E.C.. SHEET # O.C.H.D. SHEET # SHEET # A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION
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N.A. N.A.

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AS SHOWN

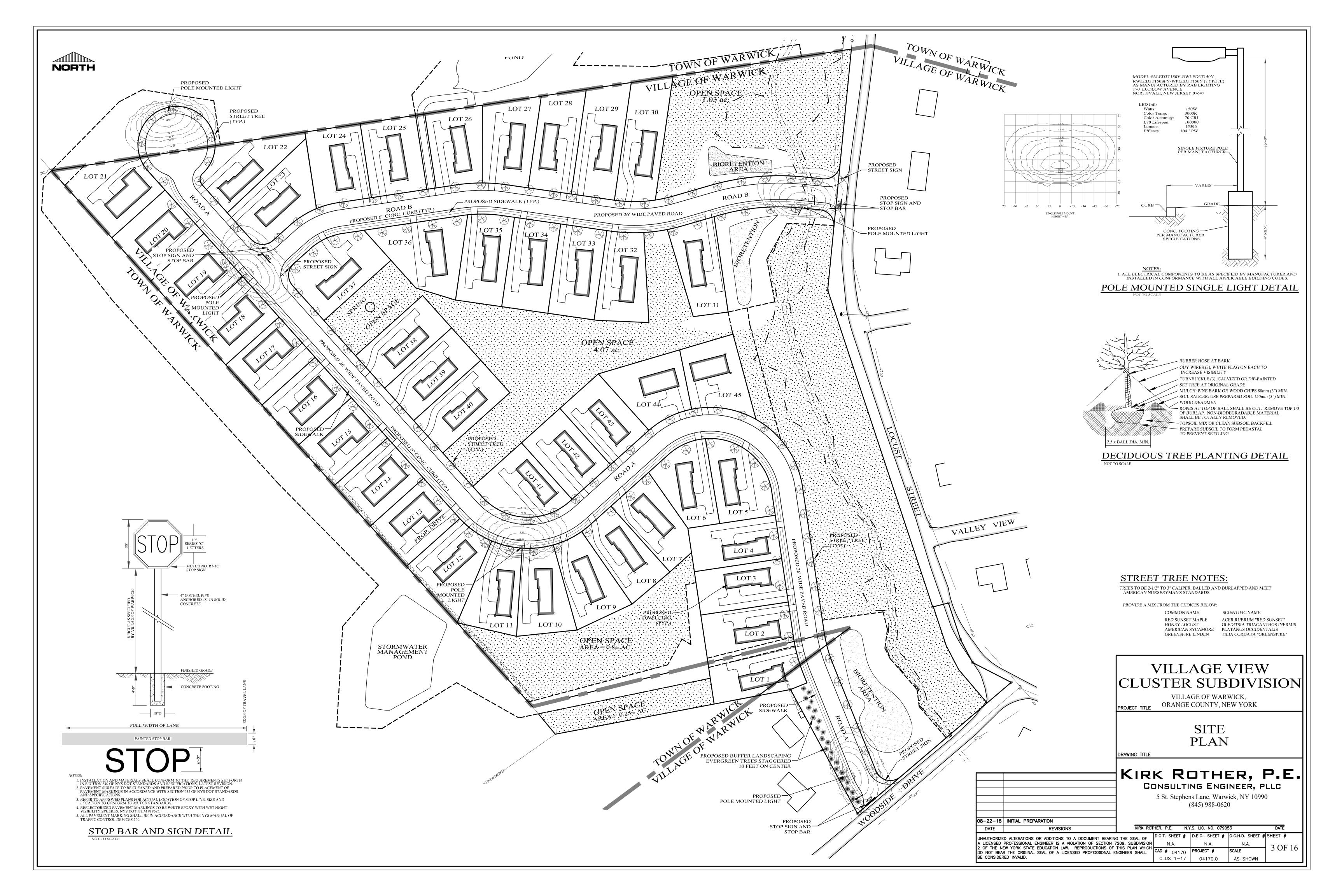
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----- L.S., P.C.

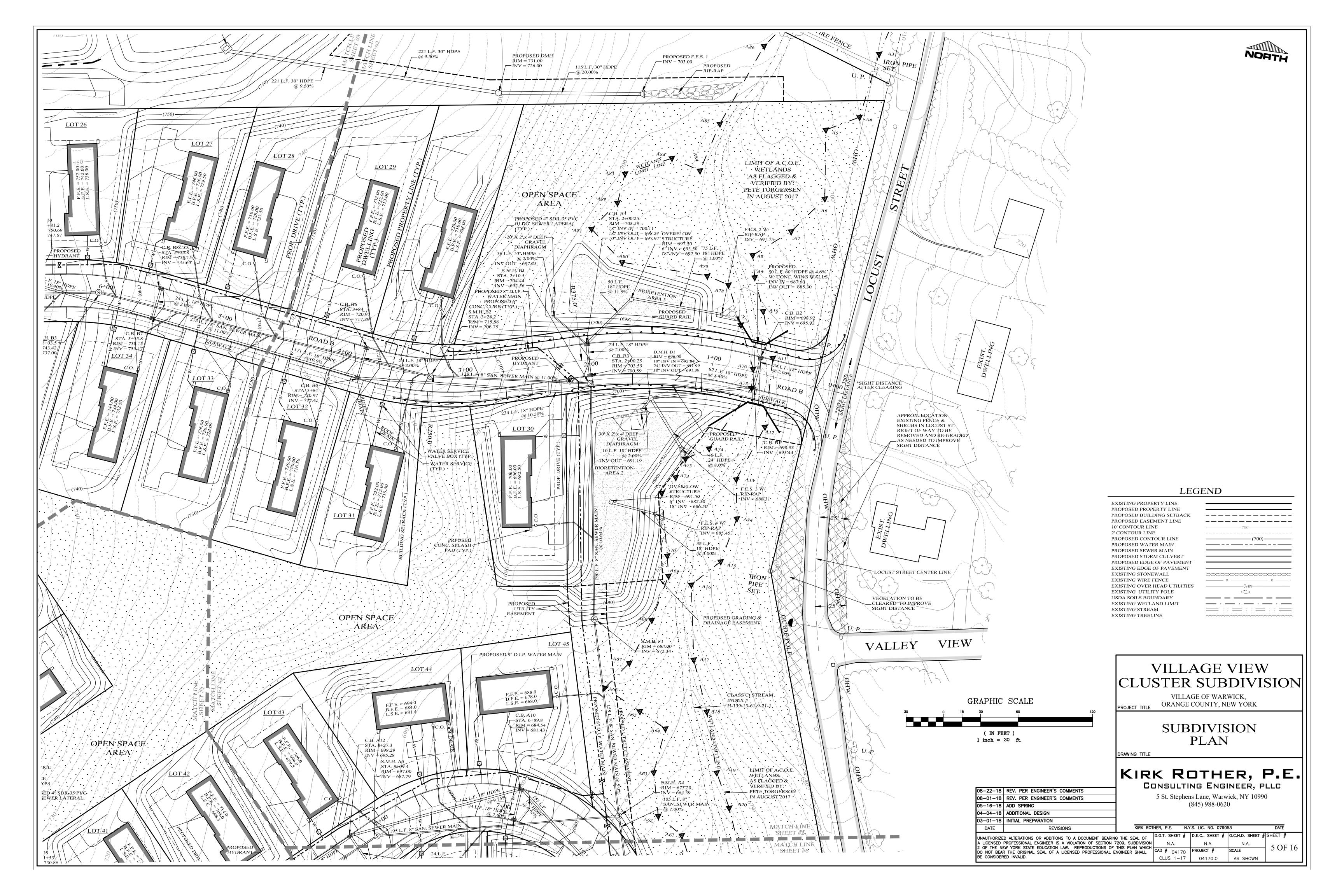
**ADDRESS** 

5. SUBJECT TO ANY UNWRITTEN OR UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, AGREEMENTS OR OTHER INSTRUMENTS. 6. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED OR EMBOSSED SEAL SHALL BE CONSIDERED TRUE

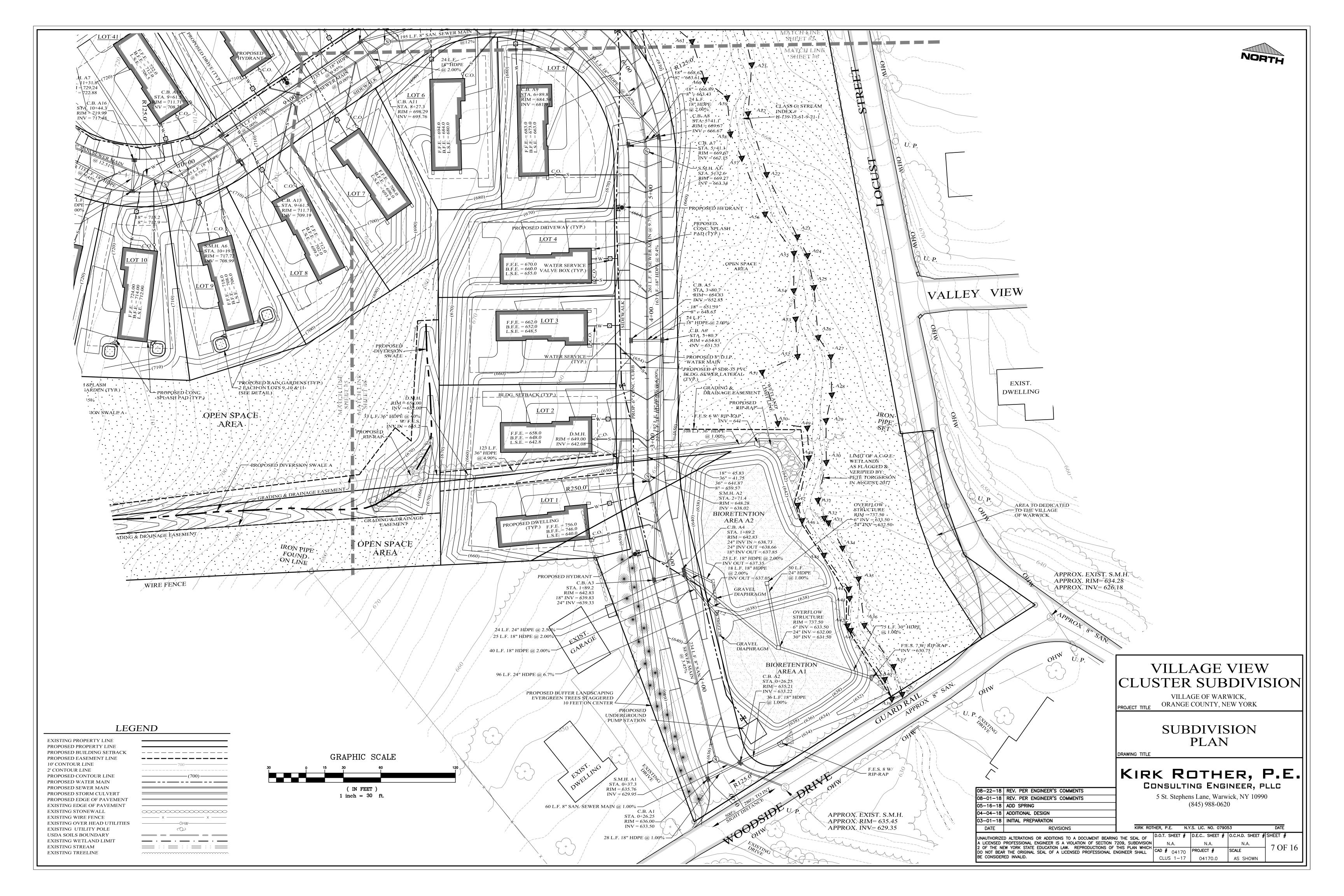
7. CERTIFICATION HEREON IS STRICTLY LIMITED TO BOUNDARY SURVEY ONLY.

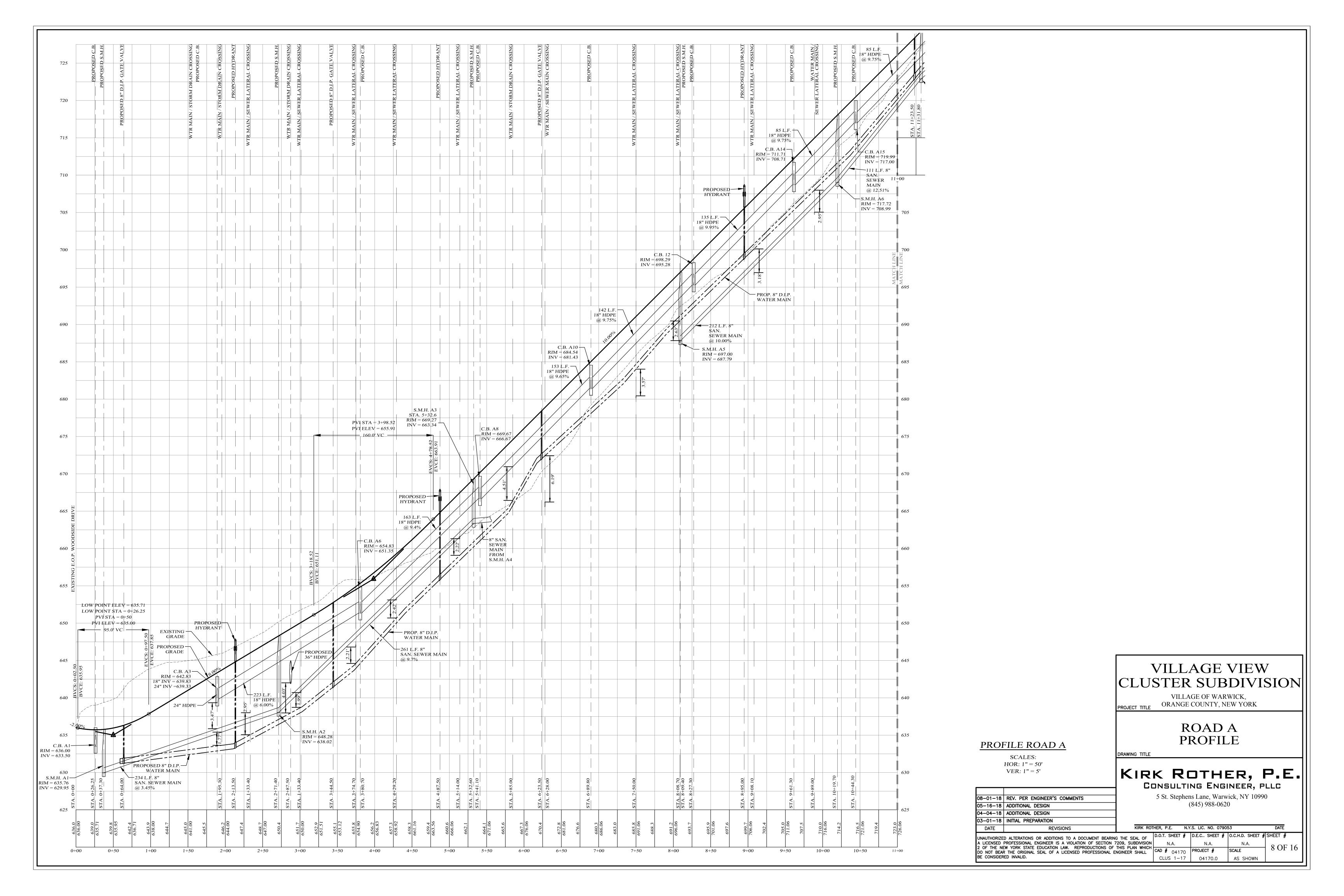


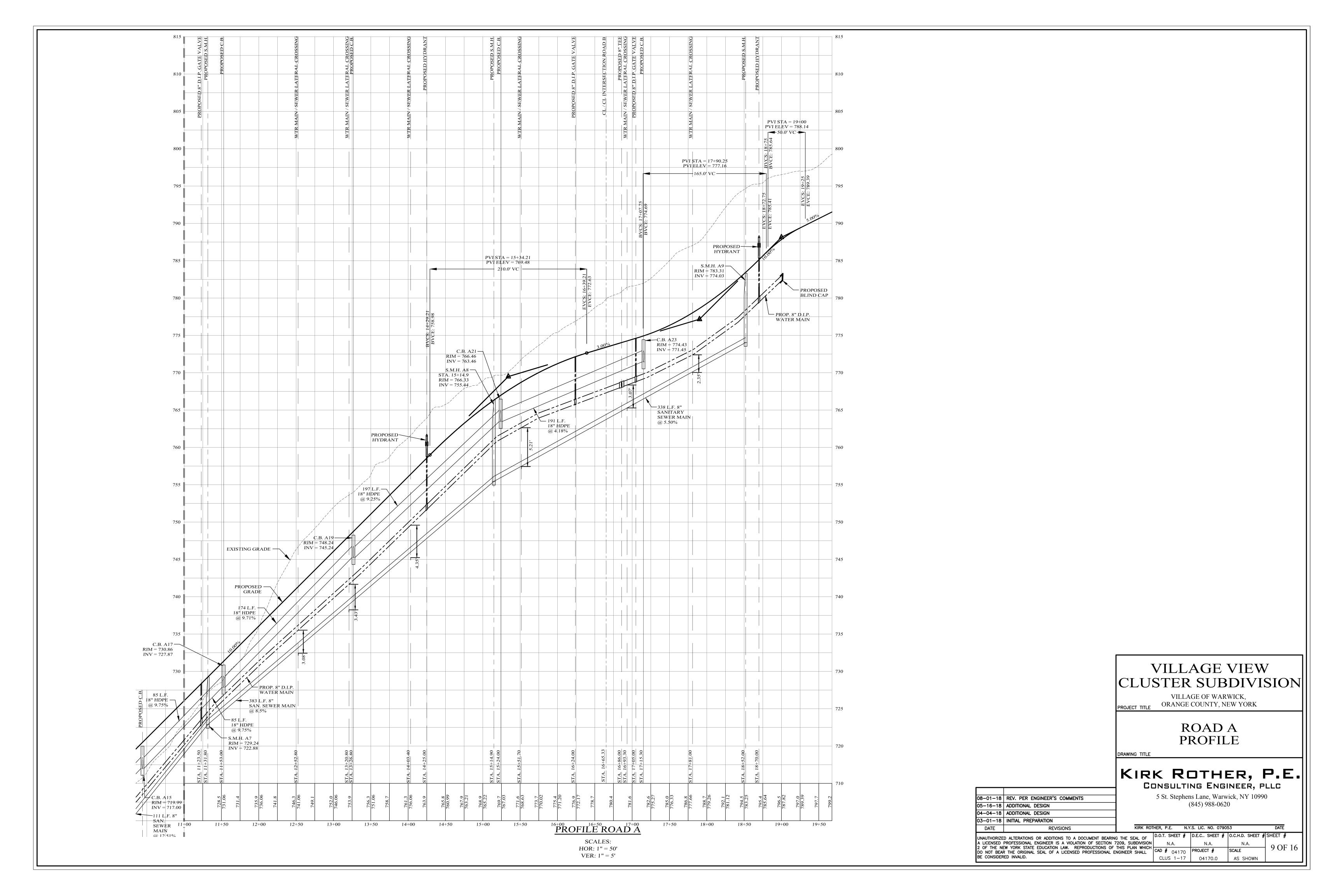


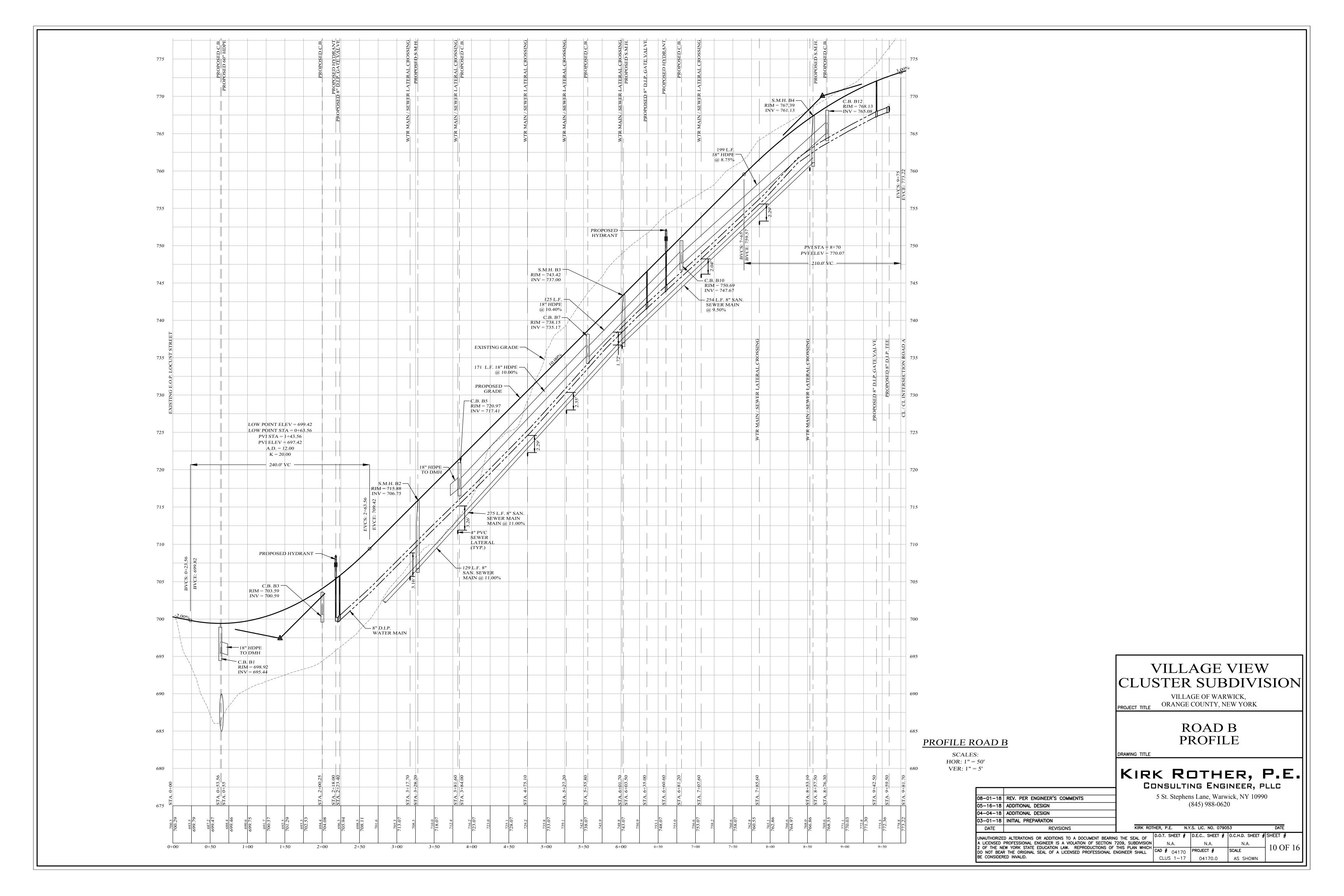


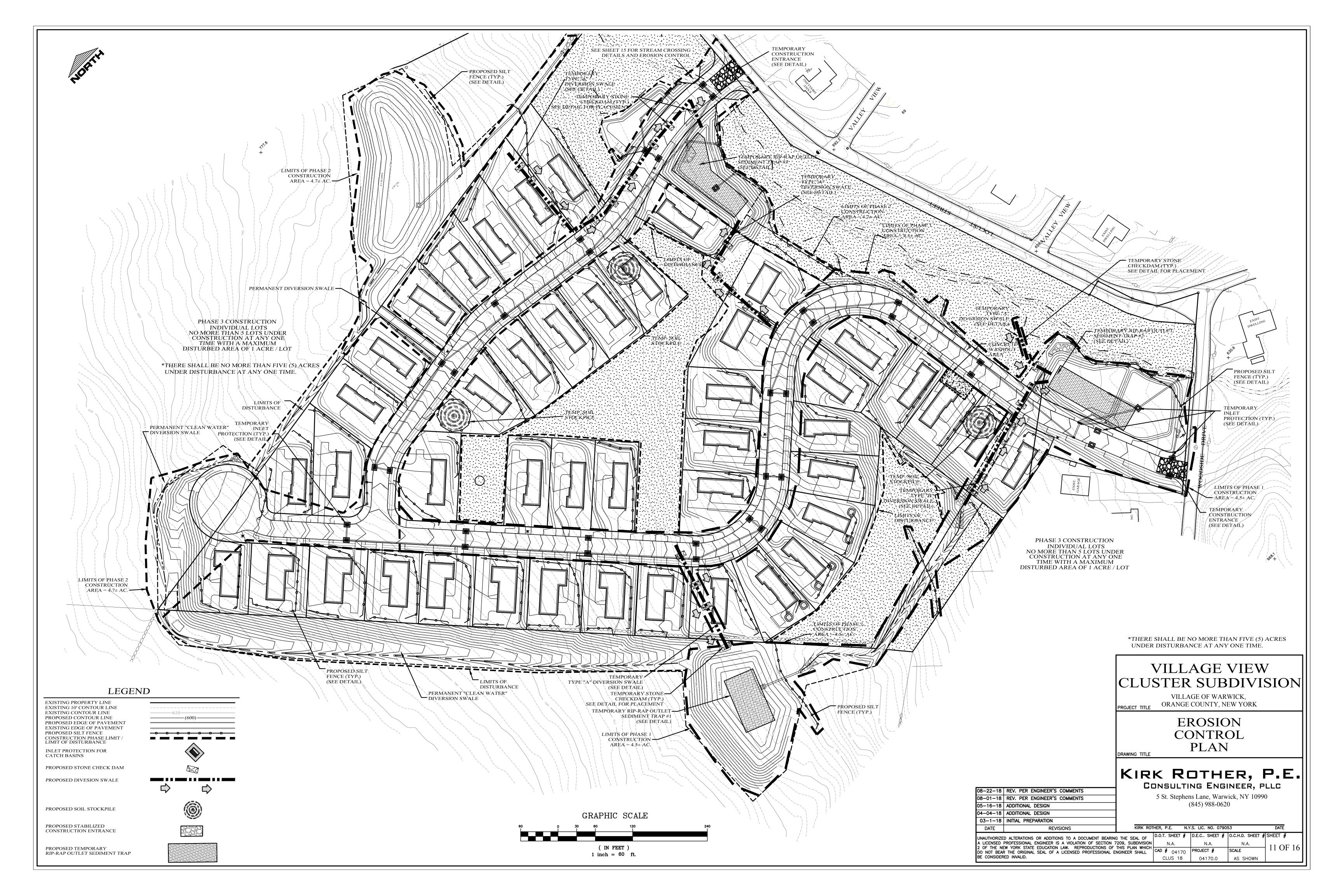


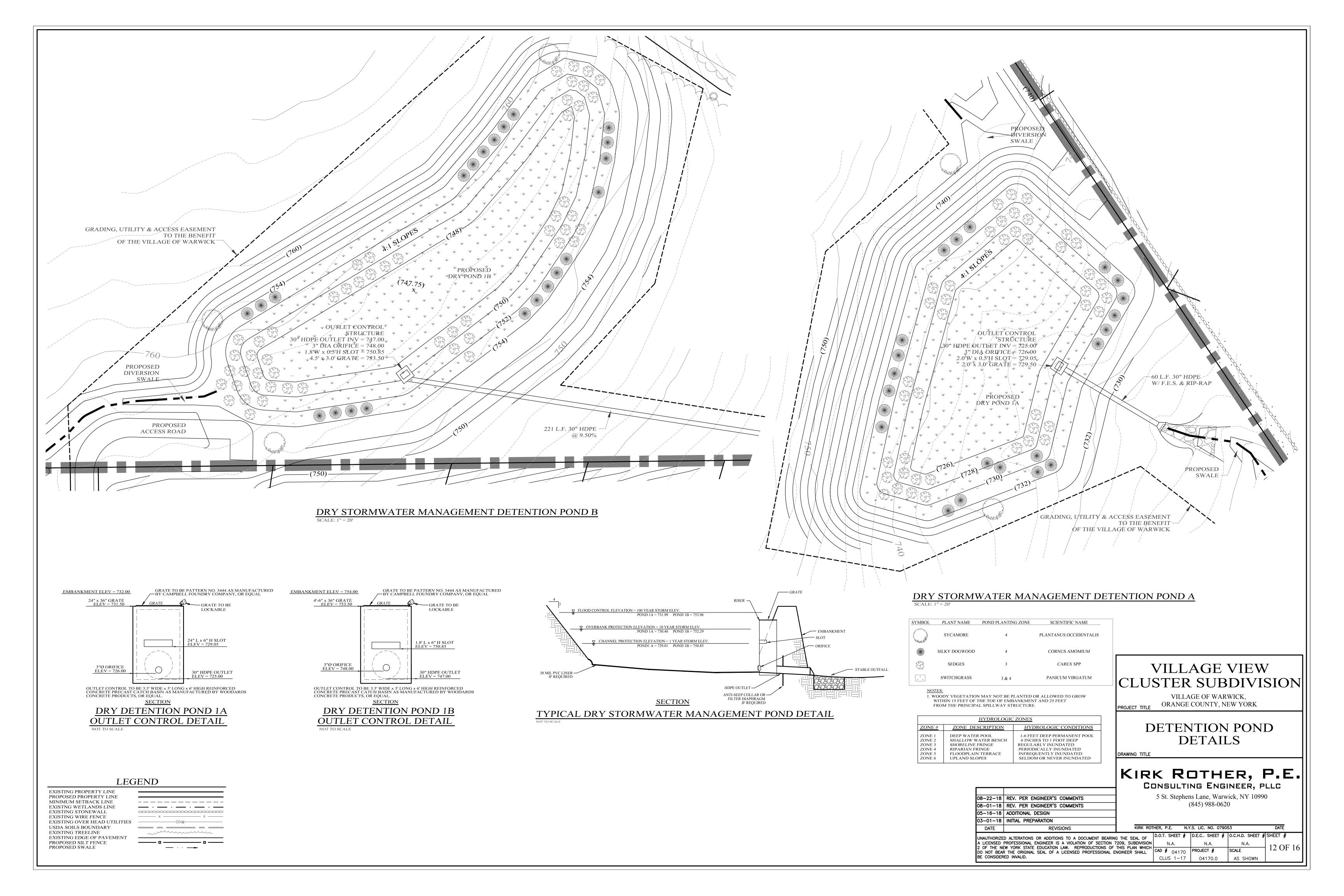


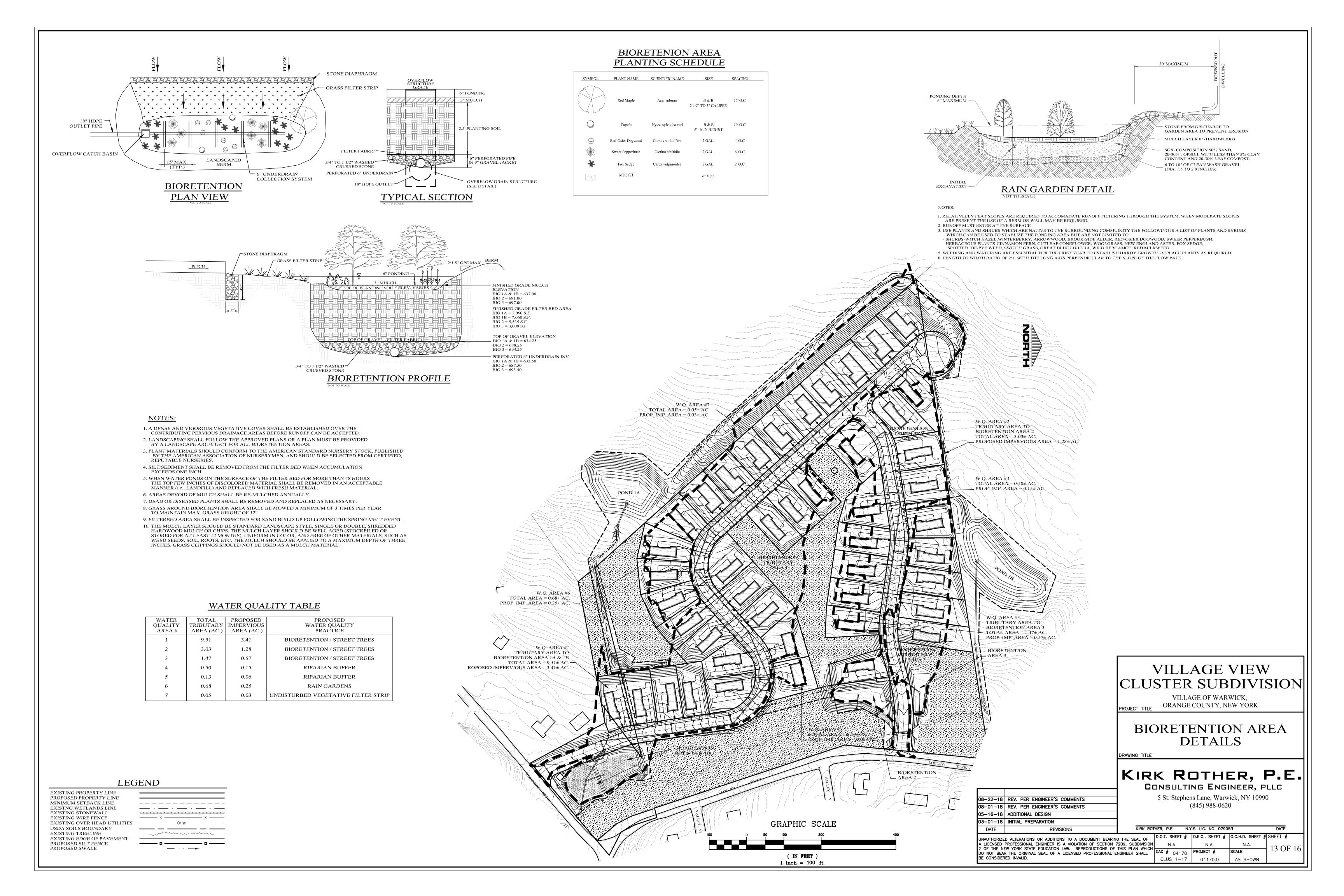


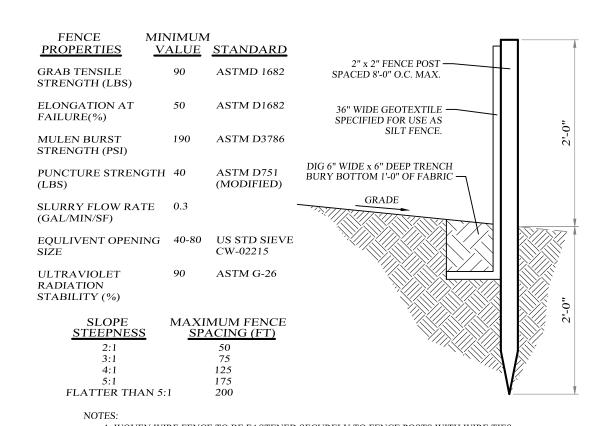












1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED

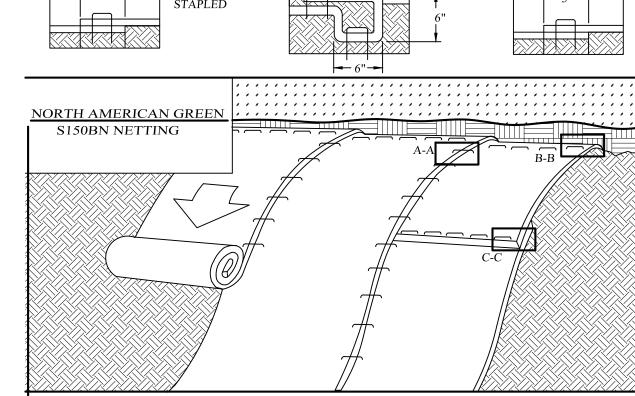
3. ALL SILT FENCES SHALL RUN PARALLEL TO THE CONTOUR OF THE LAND. 4. ALL SILT FENCEING SHALL MEET THE MINIMUM REQUIREMENTS AS STATED UNLESS OTHERWISE NOTED AND APPROVED BY THE BUILDING INSPECTOR AND ENGINEER.

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL SHALL BE REMOVED

FILTER FABRIC SILT FENCE DETAIL

WHEN "BULGES" DEVELOP IN THE SILT FENCE EVERY 24" AT TOP AND MID SECTION

# C-C



#### CONSTRUCTION SPECIFICATIONS:

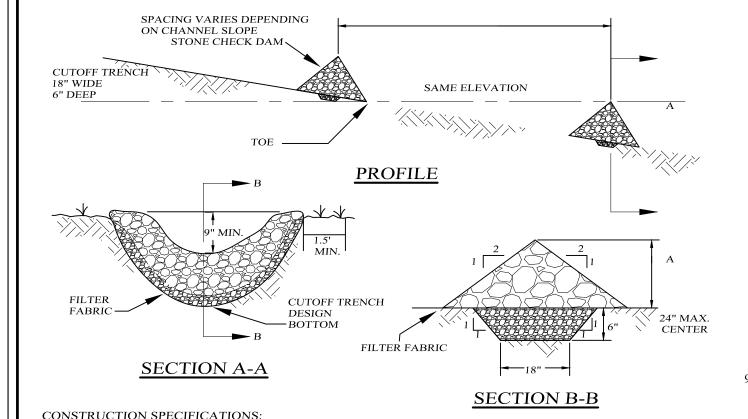
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE ADDED PROIR TO STABILIZATION. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED

APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S. 3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM. STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE. 5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH. \*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS

GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE

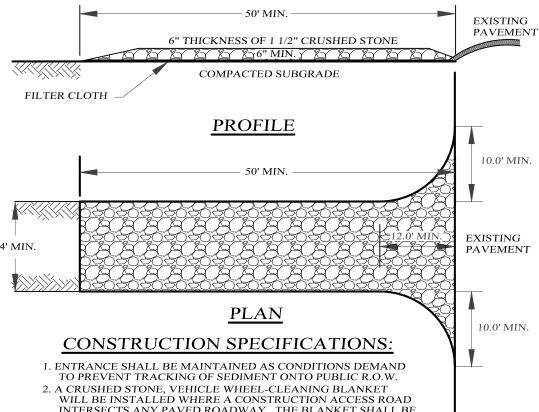
#### ROLLED EROSION CONTROL MATTING SLOPE STABILIZATION DETAIL



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 ASSUME THAT THE ELEVATION OF THE CREST OF THE DOWN STREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM. 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND 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 APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

6. MAXIMUM DRAINAGE AREA IS 2 ACRES ABOVE THE CHECK DAM.

#### CHECK DAM DETAILS



INTERSECTS ANY PAVED ROADWAY. THE BLANKET SHALL BE COMPOSED OF 6" DEPTH OF 1"-1 1/2" CRUSHED STONE, SHALL BE AT LEAST 24' x 50' FOR THE ROAD ENTRANCE AND 12' x 25' FOR DRIVEWAYS, AND SHALL BE PLACED ON COMPACTED SUB-GRADE

3. A FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. 4. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES

#### STABILIZED CONSTRUCTION ENTRANCE

5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

#### TEMPORARY SEEDING SPECIFICATIONS

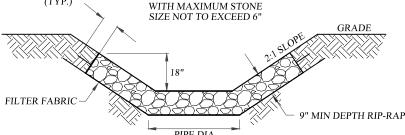
SCARIFY SOILS IF COMPACTED, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH 600 LBS/ACRE 5-10-10 FERTILIZER IF REQ., SEED WITH SPECIES AND RATE SHOWN BELOW, MULCH WITH HAY OR STRAW AT A RATE OF 2 TONS/ACRE, ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION. APPLICATION RATE RYEGRASS (ANNUAL OR PERENNIAL)

30 LBS/ACRE (USE WINTER RYE IF SEEDING IN OCT./NOV.) (0.7 LBS/1000 SF)

#### HEADWALL OR FLARED END SECTION GATHER EXCESS STORM DRAIN BURIED FABRIC -DROP INLET WITH GRATE LENGTH (SEE TABLE) В 🚤 \*DIMENSIONS SHALL MEET OR EXCEED VALUES SHOWN IN RIP-RAP SIZING TABLE TOP OF RIP-RAP STORM DRAIN CONSTRUCTION SPECIFICATIONS:

#### **SECTION A-A**

RIP RAP SIZE SHALL MEET OR EXCEED VALUES SHOWN IN RIP-RAP SIZING CHART 50% BY WEIGHT AGGREAGATE WITH MAXIMUM STONE



#### SECTION B-B RIP-RAP OUTLET DETAIL

OI TO SCALE									
OUTLET SIZING TABLE									
OUTLET	LENGTH	TOP WIDTH	BOTTOM WIDTH						
F.E.S. 1	16'	7.5'	18.5'						
F.E.S. 2	10'	4.5'	11.5'						
F.E.S. 3	12'	6'	14'						
F.E.S. 4	10'	4.5'	11.5'						
F.E.S. 5	16'	7.5'	18.5'						
F.E.S. 6	20'	9'	23'						
F.E.S. 7	16'	7.5'	18.5'						
F.E.S. 8	10'	4.5'	11.5'						

SHADY DRY SITES (WELL TO SOMEWHAT POORLY DRAINED SOILS)

SHADY WET SITES (SOMEWHAT POOR TO POORLY DRAINED SOILS)

80% SHADE TOLERANT KENTUCKY

80% SHADE TOLERANT KENTUCKY

BLUEGRASS BLEND

20% PERENNIAL RYEGRASS

70% ROUGH BLUEGRASS

BLUEGRASS BLEND

#### PERMANENT SEEDING MIXTURES

MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS APPLICATION RAT EMPIRE BIRDSFOOT TREFOIL 8 LBS/ACRE 20 LBS/ACRE TALL FESCUE 5 LBS/ACRE

APPLICATION RAT 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) 15% PERENNIAL RYEGRASS 26-33 LBS/ACRE 20% KENTUCKY BLUEGRASS BLEND 35-44 LBS/ACRE

#### SITE PREPARATION

A. INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEEDED TO DESIRED GRADES USING A MINIMUM OF 4" OF TOPSOIL. B. PREPARE SEED BED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES

D. FERTILIZE PER SOIL TESTS, OR, IF FERTILIZER IS TO BE APPLIED BEFORE SOIL TESTS, APPLY 850 POUNDS OF 5-10-10 OR EQUIVALENT PER ACRE (20 LBS. / 1000 SQ. FT.) E. INCORPORATE LIME AND FERTILIZER IN TOP 2-4 INCHES OF SOIL. F. SMOOTH. REMOVE ALL STONES OVER 1" IN DIAMETER, STICKS AND FOREIGN MATTER. FIRM SEED BED. G. APPLY SEED PER PERMANENT SEEDING SCHEDULE.

End View

AS MANUFACTYRED BY WOODARD'S CONCRETE

CONCRETE SPLASH PAD DETAIL

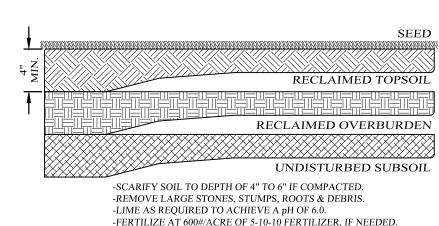
#### SLOPE STABILIZATION, SEEDING METHOD & MULCHING

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.

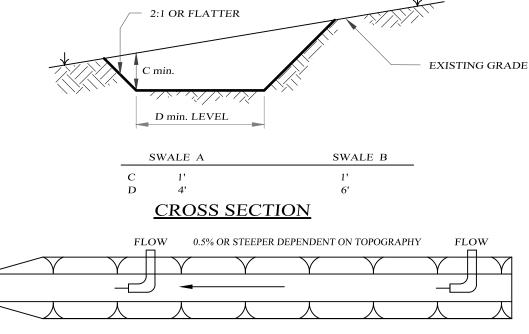
#### GENTLE SLOPES AND FLAT AREAS

AREAS SHALL BE SEEDED 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 ? TONS/ACRE. AREAS SEEDED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PACKED PRIOR TO PLACING MULCH.

NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS



#### ROUGHEN TOP 4" OF SOIL, SEED AND MULTCH. RECLAMATION DETAIL



#### **PLAN VIEW**

CONSTRUCTION SPECIFICATIONS 1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE. 3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY. 4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING

#### OF THE SWALE. OF THE SWALE. STHE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH IMPEDE NORMAL FLOW. 6. ALL FILLS ARE TO BE MECHANICALLY COMPACTED.

ALL EARTH REMOVED AND NOT NEEDED SHALL BE PLACED AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE.

8. REEFER TO CHART FOR STABILIZATION OF FLOW CHANNEL. 9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

#### FLOW CHANNEL STABILIZATION

CHANNEL GRADE TYPE OF TREATMENT A (5 AC OR LESS) SEED AND STRAW MULCH 3.1-5.0 SEED AND STRAW MULCH 5.1-8.0 SEED WITH ILITE OR EXCELSIOR:SOD

RECYCLED CONCRETE EQUIVALENT ENGINEERED DESIGN LINED 4-8" RIP-RAP TEMPORARY DIVERSION SWALE DETAIL

SEED AND STRAW MULCH

LINED RIP-RAP 4-8"

SEED USING JUTE OR EXCELSIOR

FABRIC FOR SUPPORT

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS. 2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.

STAKE-

FABRIC -

STAKE —

**/|**|-------

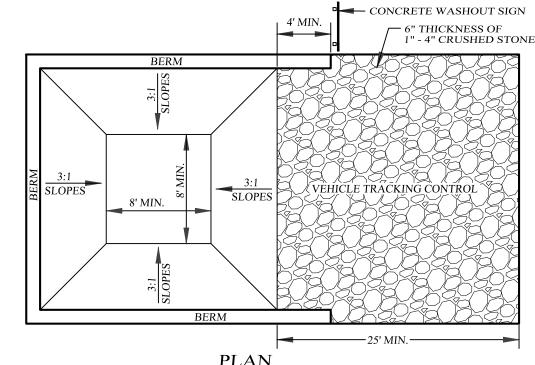
DROP INLET

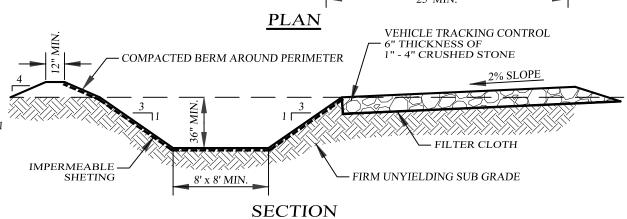
TOP OF COMPACTED EMBANKMENT

AT CORNERS -

- 3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM 4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM OF 18" DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER
- 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME. 6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR

#### FILTER FABRIC DROP INLET PROTECTION





#### CONSTRUCTION AND MAINTENANCE SPECIFICATIONS

1. SEE PLAN FOR CONCRETE WASHOUT AREA (C.W.A.) INSTALLATION LOCATION 2. AN UNLINED C.W.A. SHALL NOT BE INSTALLED WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY, OR WITHIN 1,000' OF ANY WELLS OR DRINKING WATER. IF SEPARATION REQUIREMENTS CANNOT CANNOT BE MET, OR IF HIGHLY PERMEABLE SOILS EXIST WITHIN THE SITE, THE C.W.A. MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL. MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LÍNED ABOVE GROUND STORAGE AREA SHOULD BE USED. 3. THE C.W.A. SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON THE SITE. 4. THE C.W.A. SHALL INCLUDE A FLAT SUBSURFACE PIT (8' x 8' MIN.). SLOPES LEADING OUT OF THE SUBSURFACE

PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE A MINIMUM OF 3' DEEP. 5. A BERM SHALL SURROUND THE SIDES AND BACK OF THE C.W.A. AND SHALL HAVE A MINIMUM HEIGHT OF 1'. 6. THE VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARD THE C.W.A. 7. SIGNS SHALL BE PLACED AT THE C.W.A. AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE C.W.A. TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. 8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCT.

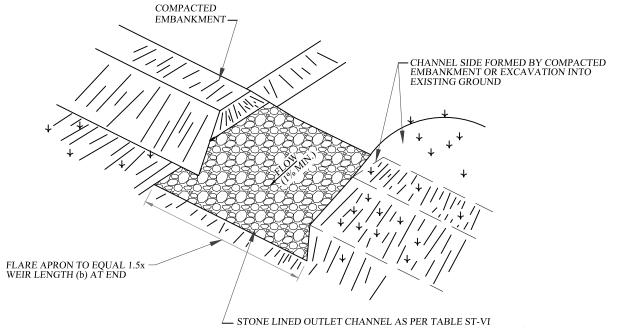
9. THE C.W.A. SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN THE PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'. 10. CONCRETE WASHOUT WATER, PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATERTIGHT CONTAINER AND DISPOSED OF PROPERLY

CONCRETE WASHOUT AREA DETAIL

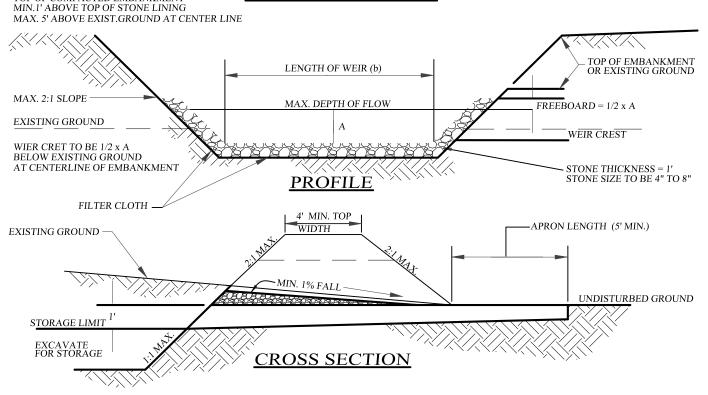
11. THE C.W.A. SHALL REMAIN IN PLACE UNTIL ALL CONCETE FOR THE PROJECT IS PLACED. 12. UPON REMOVAL OF THE C.W.A. THE DISTURBED AREA SHALL BE COVERED IN TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION

1. TOPSOIL STOCKPILE TO BE BE SEEDED AS PER THE TEMPORARY SEEDING SPECIFICATIONS.

#### TOPSOIL STOCKPILE DETAIL



– STONE LINED OUTLET CHANNEL AS PER TABLE ST-VI (CHANNEL MAY BE CURVED TO FIT EXISTING TOPOGRAPHY) PERSPECTIVE VIEW



#### RIPRAP OUTLET SEDIMENT TRAP NOT TO SCALE MAX.DRAINAGE AREA = 15 ACRES

#### SEDIMENT TRAP CRITERIA

	<u>TRAP #1</u>	<u>TRAP #2</u>	<u>TRAP #3</u>	
TRAP TYPE	RIP RAP OUTLET SEDIMENT TRAP			
DRAINAGE AREA	$6\pm$ ACRES	$7.5\pm$ ACRES	$8\pm$ ACRES	
STORAGE REQUIRED	21,600 cu. ft.	27,000 cu. ft.	28,800 cu. ft.	
STORAGE PROVIDED	22,500 cu. ft.	28,000 cu. ft.	30,000 cu. ft.	
DIMENSIONS AT "AVE." WATER HT.	50' x 90'	40' x 140'	6,000 S.F.	
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	
CHANNEL DEPTH	1.5'	1.5'	1.5'	
WEIR LENGTH	5'	5'	5'	
EMBANKMENT HEIGHT	5'	5'	5'	

CONSTRUCTION SPECIFICATIONS 1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED. 2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EOUIPMENT WHILE IT IS

FEET. MEASURED AT CENTERLINE OF EMBANKMENT. 3. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, CUT SLOPES 1:1 OR FLATTEI 4. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED HEIGHT OF EMBANKMENT. 5. STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME

BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5)

AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE WEIR CREST 6. FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST ONE (1) FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL

7. STONE USED IN THE OUTLET CHANNEL SHALL BE FOUR (4) TO EIGHT (8) INCHES (RIP RAP) . TO PROVIDE A FILTERING EFFECT. A LAYER OF FILTER CLOTH SHALL BE EMBEDDED ONE (1) FOOT WITH SECTION NEAREST ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.

8. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

9. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND SHALL BE REPAIRED AS 10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT

EROSION AND WATER POLLUTION ARE MINIMIZED 11. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. 12. DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES.

### VILLAGE VIEW

VILLAGE OF WARWICK, ORANGE COUNTY, NEW YORK PROJECT TITLE

**EROSION CONTROL DETAILS SHEET** 

08-22-18 ADDITIONAL DESIGN / ADDED DETAIL

05-16-18 ADDITIONAL DESIGN / ADDED DETAIL

DATE

BE CONSIDERED INVALID.

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