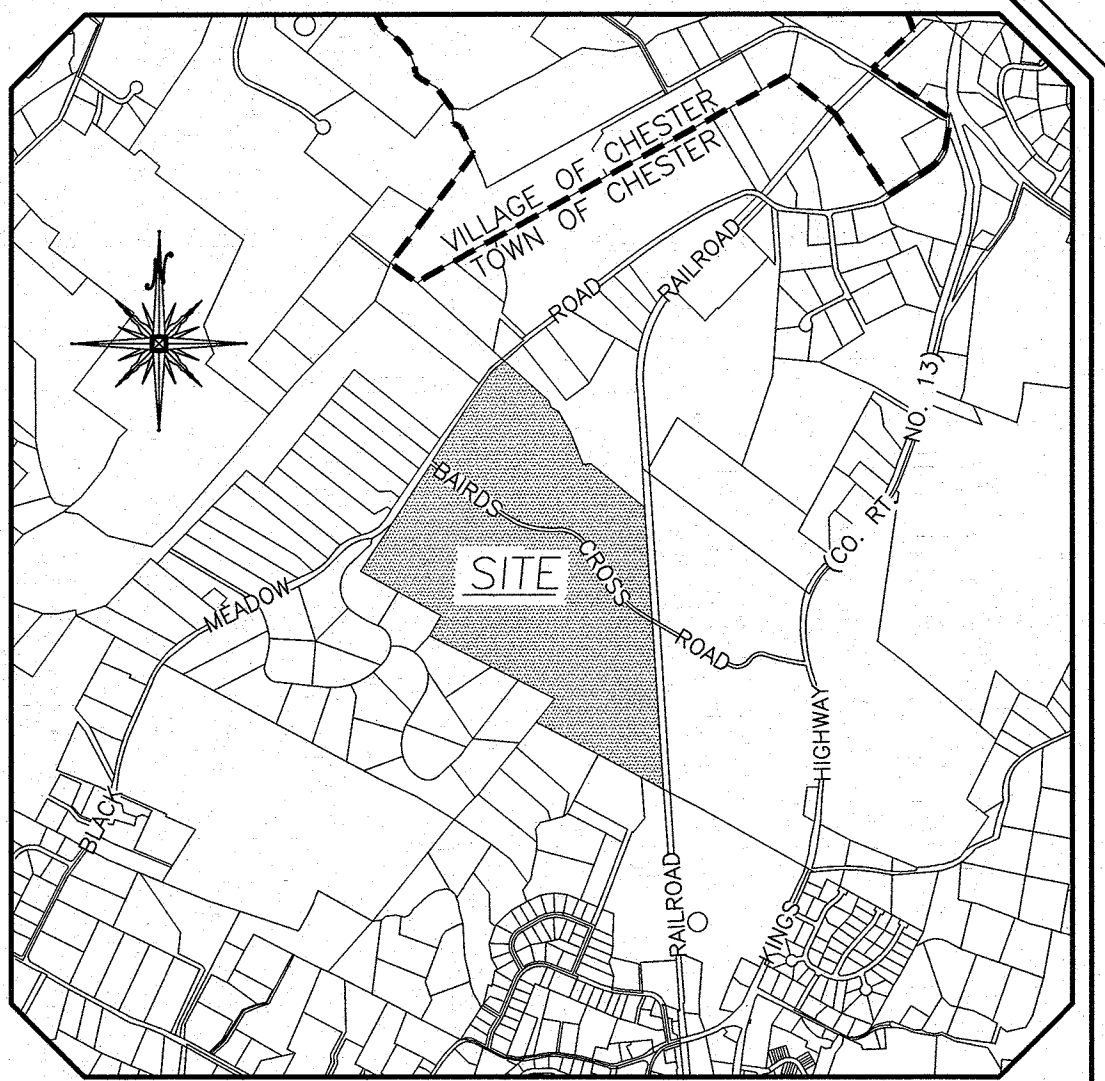
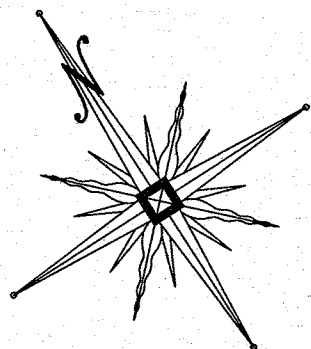


BARODA CLUSTER SUBDIVISION

TOWN OF CHESTER
ORANGE COUNTY, NEW YORK

N/F
EIGHTEEN-EIGHT GROUP, LLC
SECTION 6 BLOCK 1 LOT 102



LOCATION MAP
SCALE: 1"=2,000'

BULK REQUIREMENTS ZONE AR-3 (AGRICULTURAL RESIDENTIAL) USE GROUP - SINGLE FAMILY (CLUSTERED DEVELOPMENT)

	MIN. REQUIRED	PROVIDED
LOT AREA (SQ. FT.)	32,760	32,760
LOT WIDTH (FT.)	100	100
FRONT YARD (FT.)	35	35
REAR YARD (FT.)	40	40
SIDE YARD (FT.)	15	15
BOTH SIDE YARDS (FT.)	30	30
BUILDING COVERAGE (%)	MAX. PERMITTED 20	PROVIDED 20
BUILDING HEIGHT (FT.)	40	40

PLAN INDEX

SHEET NO.	TITLE
1	COVER SHEET
2	EXISTING CONDITIONS
3	PLAT SHEET (1)
4	PLAT SHEET (2)
5	UTILITY PLAN (1)
6	UTILITY PLAN (2)
7	GRADING PLAN (1)
8	GRADING PLAN (2)
9	EROSION CONTROL PLAN
10	EROSION CONTROL PLAN
11	INDIVIDUAL LOT CONSTRUCTION
12	EROSION CONTROL DETAILS
13	STREET TREE PLAN
14	PROFILE SHEET & SITE DETAILS (1)
15	PROFILE SHEET & SITE DETAILS (2)
16	SANITARY & WATER SUPPLY DETAILS (1)
17	SANITARY & WATER SUPPLY DETAILS (2)

RECORD OWNER/APPLICANT

B D R GROUP, LLC
P.O. BOX 259
GARNERVILLE, NY 10923

10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 00/00/00 INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
262 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10824
(845) 284-0806
2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4646

JOSEPH J. PFAU
LICENSE NO. 056023
MICHAEL F. CHERIAN P.E.
LICENSE NO. 056023
VINCENT A. PETERLIN P.E. LEAD
P.E. LICENSE NO. 056023
N.Y. STATE EXPIRATION DATE 12/31/16
SIGNATURE DATE

BARODA CLUSTER SUBDIVISION

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

COVER SHEET

SECTION 12, BLOCK 1, LOT 31

DRAWING TITLE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
1 OF 7	N/A OF N/A	1 OF 16
SCALE	CAD REFERENCE	PROJECT NUMBER
1"=150'	WORKING CLUSTER	14118.01

GENERAL NOTES:

1. TAX MAP DESIGNATION SECTION 12 BLOCK 1 LOT 31.
2. TOTAL AREA OF PARCEL: 168.2± ACRES.
3. TOTAL AREA OF CONSERVATION EASEMENT: 124.4± ACRES OR 73.9% OF THE TOTAL PARCEL AREA.
4. A CONVENTIONAL YIELD PLAN HAS BEEN PREPARED PROPOSING 30 RESIDENTIAL LOTS.
5. TOTAL NUMBER OF SINGLE FAMILY RESIDENTIAL LOTS: 29.
6. PROPERTY LIES WITHIN THE AR-3 ZONING DISTRICT LINE.
7. ALL UNITS ARE TO BE SERVED BY INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS.
8. NYS DEC REGULATED WETLANDS SHOWN AS DELINEATED BY ROBERT TORGENSEN, L.A. AND LOCATED BY AFR ENGINEERING ON DECEMBER 4, 2009. WETLAND LINE WAS REVISED IN ACCORDANCE WITH A FIELD REVIEW BY DOUGLAS G. GAUGLER OF THE NYS DEC ON FEBRUARY 23, 2012. THE NYSDEC VALIDATED THE FRESHWATER WETLAND BOUNDARY ON JULY 9, 2015.
9. FEDERALLY REGULATED WETLANDS SHOWN AS DELINEATED BY ROBERT TORGENSEN, L.A. AND LOCATED BY AFR ENGINEERING ON DECEMBER 4, 2009.
10. FLOOD ZONE DATA SHOWN AS PER FEMA FLOOD MAP TOWN OF CHESTER PANEL #36071C0458E.
11. TOPOGRAPHY BASED ON MAPPING PROVIDED BY RECORD APPLICANT.
12. ALL UTILITY SERVICE TO THE SITE SHALL BE UNDERGROUND.

ORANGE COUNTY DEPARTMENT OF HEALTH REALTY SUBDIVISION NOTES:

1. NO LOT IS TO BE FURTHER SUBDIVIDED WITHOUT ORANGE COUNTY DEPARTMENT OF HEALTH REVIEW AND APPROVAL.
2. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED.
3. ALL WELLS AND SEPTIC SYSTEMS WITHIN 300' OF THIS PROJECT HAVE BEEN LOCATED AND ARE SHOWN ON THE PLANS.
4. THE PURCHASER OF EACH LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES, INCLUDING NYSDEC WELL COMPLETION REPORT. THE PURCHASER SHALL ALSO BE ADVISED OF ANY ROUTINE OR SPECIAL MAINTENANCE PROCEDURES THAT MAY BE NECESSARY (REFER TO CHAPTER 12 OF THE NYSDOH DESIGN HANDBOOK FOR RECOMMENDED ROUTINE OPERATION AND MAINTENANCE ITEMS).
5. INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED FOR HOUSEHOLD DOMESTIC PURPOSES WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWER SYSTEM IS REQUIRED WITHIN ONE YEAR OF AVAILABILITY.
6. ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN 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 REQUIRED TO OBTAIN A TIME EXTENSION.
7. THE APPROVED PLANS MUST BE FILED WITH THE ORANGE COUNTY CLERK'S OFFICE PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 90 DAYS OF THE LAST APPROVAL OF FINAL PLANS.

CONSTRUCTION NOTES:

1. PRIOR TO ANY CONSTRUCTION, CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES FOR UTILITY MARK OUTS. CONTRACTOR IS TO ASSUME FULL RESPONSIBILITY FOR MAINTAINING CONTINUOUS UTILITY SERVICE AND REPAIRS TO UTILITIES IN THE EVENT OF DAMAGE.
2. PRIOR TO ANY CONSTRUCTION, CONTRACTOR IS TO FIELD LOCATE AND VERIFY ALL EXISTING UTILITIES LOCATIONS, ELEVATIONS, INVERTS, ETC. AND NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES ON THIS PLAN.
3. CONTRACTOR IS TO COORDINATE NEW UTILITY SERVICES WITH ALL UTILITY COMPANIES.
4. CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TRAFFIC MAINTENANCE.
5. CONTRACTOR IS TO BE RESPONSIBLE FOR ALL PROJECT SAFETY REQUIREMENTS.

UNITED STATES FISH AND WILDLIFE SERVICE NOTES:

1. A 300 FOOT BUFFER HAS BEEN ESTABLISHED AROUND NYSDEC WETLAND WR-18, WHICH CONTAINS SUITABLE BOG TURTLE HABITAT. A PERMANENT CONSERVATION EASEMENT IS TO BE PLACED OVER THE AREA OF WR-18 AND THE ASSOCIATED 300 FOOT BUFFER. NO DISTURBANCE OR ACTIVITIES OF ANY KIND ARE TO TAKE PLACE WITHIN THIS CONSERVATION EASEMENT.

INDIANA BAT:

1. A TIME OF YEAR RESTRICTION FOR TREE REMOVAL BETWEEN NOVEMBER 1 AND MARCH 30 IS TO BE IMPLEMENTED FOR THIS PROJECT TO AVOID IMPACTS TO THE INDIANA BAT.
2. THE CLEARING LIMIT LINE, CLEARLY DEFINED ON THIS PLAN, IS TO BE STRICTLY ADHERED TO.
3. BRIGHT ORANGE FLAGGING OR ORANGE CONSTRUCTION FENCING IS TO BE INSTALLED ALONG THE PROPOSED CLEARING LIMIT LINE TO DELINEATE AREAS TO BE CLEARED AND GRADED AND AREAS TO BE LEFT UNDISTURBED (SEE EROSION CONTROL PLANS).
4. THE CONTRACTOR IS TO CONTACT THE TOWN OF CHESTER BUILDING INSPECTOR PRIOR TO TREE CUTTING TO SCHEDULE A SITE INSPECTION FOR VERIFICATION THAT THE CLEARING LIMIT LINE IS BEING ADHERED TO.
5. ALL LIGHTING FIXTURES ARE TO BE INSTALLED FACING DOWN AND WITH LIGHT SHIELDING TO AVOID IMPACTS TO BATS.

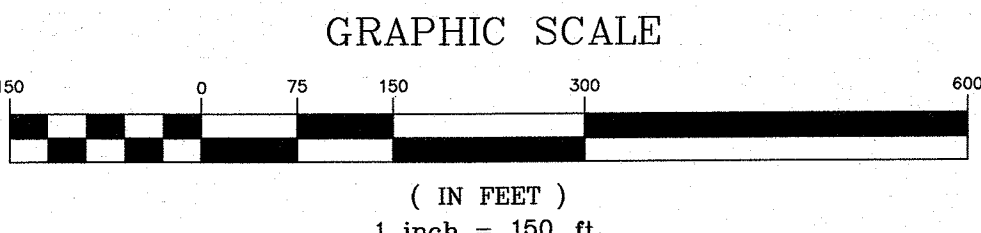
RIDGE OVERLAY PROTECTION NOTES:

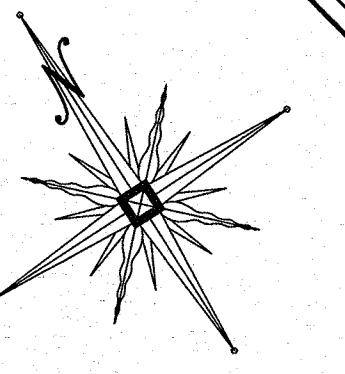
1. THE PROPOSED DWELLINGS FOR LOTS 5 & 6 ARE TO BE CONSTRUCTED WITHIN THE RIDGE PRESERVATION OVERLAY DISTRICT AND SHALL BE CONSTRUCTED IN CONFORMANCE WITH SECTION 98-26 OF THE TOWN OF CHESTER CODE.
2. HOUSE PLANS FOR LOTS 5 & 6 WERE SUBMITTED AND APPROVED BY THE PLANNING BOARD DURING THE SUBDIVISION REVIEW PROCESS. THESE HOUSE PLANS WERE ENTITLED "THE SHERWOOD HIP ROOF" AND "THE CANTRELL" IN THE COLORS "HARVARD SLATE" AND "PEBBLE CLAY".
3. MATERIAL VARIATIONS FROM THESE PLANS WILL REQUIRE FURTHER REVIEW BY THE PLANNING BOARD.

RESERVED FOR HEALTH DEPARTMENT APPROVAL

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 1 OF 7.

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL





- SURVEY NOTES:**
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 2. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.
 3. CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNER.
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 5. CONTACT UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION, AS UNDERGROUND IMPROVEMENTS EXIST WHICH WERE NOT LOCATED AT THE TIME OF THIS SURVEY.
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 7. SUBJECT TO AN UP TO DATE AND ACCURATE TITLE REPORT.
 8. SUBJECT TO ANY EASEMENTS OR AGREEMENTS, IF ANY.
 9. SUBJECT TO ANY RIGHTS, TITLE OR INTEREST BY OTHERS TO PROPERTY IN/AND OR ALONG THE ROADWAYS SHOWN HEREON.
 10. SUBJECT TO ANY RIGHTS, TITLE, EASEMENTS, OR INTEREST BY UTILITY COMPANIES TO UTILITIES RUNNING IN AND/OR ALONG SAID PARCELS.
 11. TOPOGRAPHY AND SOME EXISTING FEATURES BASED ON MAPPING PROVIDED BY RECORD APPLICANT.
 12. REFER TO

- LEGEND**
- EXISTING WELL
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING PROPERTY LINE
 - EXISTING TREELINE
 - EXISTING OVERHEAD UTILITIES
 - EXISTING GUY WIRE
 - EXISTING UTILITY POLE WITH OVERHEAD WIRES
 - EXISTING SIGN

RECORD OWNER/APPLICANT
B D R GROUP, LLC
P.O. BOX 259
CARNERVILLE, NY 10923

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	MR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JJP
6-16-14	ORIGINAL PREPARATION DATE	JJP
DATE	DESCRIPTION	INITIALS
REVISIONS		
MAP CHECK DATE:	00/00/00	INITIALED BY: --

PIETRZAK & PFAU
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2 HAMILTON AVENUE
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JOSEPH J. PFAU P.E.
LICENSE NO. 056023

MICHAEL F. CHODGAN P.L.S.
LICENSE NO. 056023

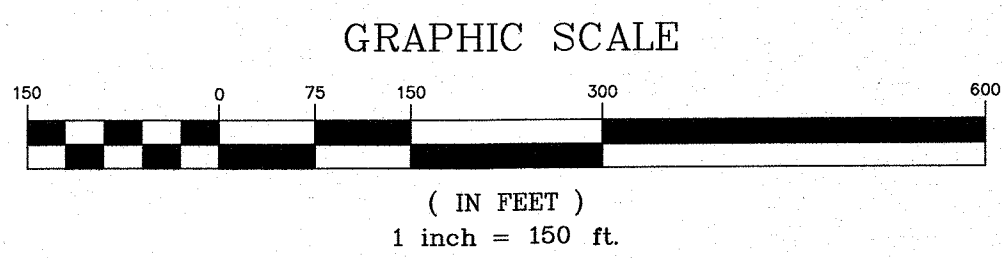
BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

EXISTING CONDITIONS
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

DRAWING TITLE
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
N/A OF 7	N/A OF N/A	2 OF 16

SCALE: 1"=150'
CAD REFERENCE: WORKING CLUSTER
PROJECT NUMBER: 14118.01



MATCH LINE 1
MATCH LINE 1

MATCH LINE 1
MATCH LINE 1

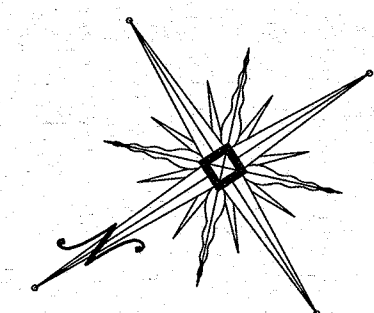
RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

N/F
DUGGAN
SECTION 12 BLOCK 1 LOT 66

RESERVED FOR HEALTH DEPARTMENT APPROVAL

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.S.H.D. SHEET NO. 2 OF 7.

N/F
ANDRICK
SECTION 12 BLOCK 1 LOT 69



SURVEY NOTES:

1. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y.S. EDUCATION LAW.
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11. TOPOGRAPHY AND SOME EXISTING FEATURES BASED ON MAPPING PROVIDED BY RECORD APPLICANT.
12. REFER TO

RECORD OWNER/APPLICANT

B D R GROUP, LLC
P.O. BOX 259
GARNERVILLE, NY 10923

N/F
CALZADA
SECTION 12 BLOCK 1 LOT 70

N/F
HARTSEL
SECTION 12 BLOCK 1 LOT 71

DATE	DESCRIPTION	INITIALS
10-28-18	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-18	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	MR
6-19-18	REVISED PER PB COMMENTS	MWS
9-4-18	REVISED ENTRANCE	JUP
6-16-18	ORIGINAL PREPARATION DATE	JUP
REVISIONS		
MAP CHECK DATE:	00/00/00	INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
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(845) 294-0806
2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4646

JOSEPH J. PFAU P.E.
LICENSE NO. 060023
MICHAEL F. CROGAN P.L.S.
LICENSE NO. 060023
10-29-16
DATE

BARODA CLUSTER
SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE
PLAT SHEET (1)
SECTION 12, BLOCK 1, LOT 31

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
2 OF 7	N/A OF N/A	3 OF 16
SCALE	CAD REFERENCE	PROJECT NUMBER
1"=100'	WORKING CLUSTER	14118.01

N/F
EIGHTEEN-EIGHT GROUP, LLC
SECTION 6 BLOCK 1 LOT 102

N86°46'54"E
73.17'
S27°33'06"E
107.35'

S33°33'06"E
101.25'

S59°48'06"E
83.52'

S30°40'06"E
66.40'

S51°34'13"E
624.40'

S37°05'57"W
239.05'

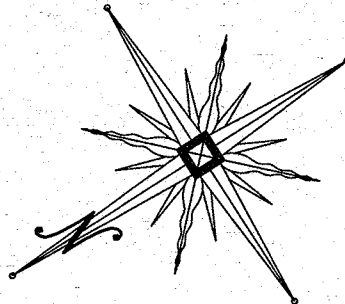
RIGHT-OF-WAY
DEDICATION AREA
124,217± sq.ft.
2.85± acres

GRAPHIC SCALE

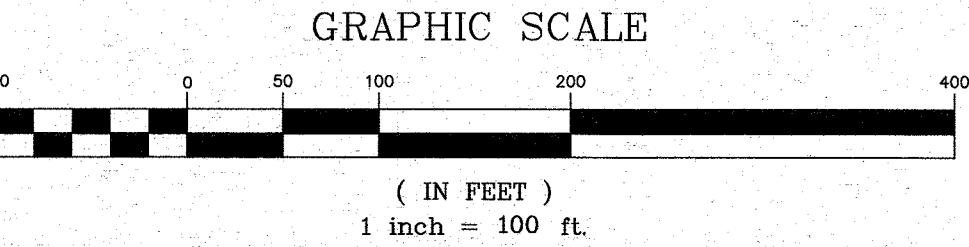


(IN FEET)
1 inch = 100 ft.

BLACK MEADOW ROAD



- SURVEY NOTES:**
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 12. REFER TO



RECORD OWNER/APPLICANT
B D R GROUP, LLC
P.O. BOX 259
GARNERVILLE, NY 10923

REVISIONS	INITIALS
10-28-16 PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16 REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-15-15 REVISED PER PS COMMENTS	MWS
9-4-14 REVISED ENTRANCE	JUP
6-16-14 ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION

MAP CHECK DATE: 00/00/00 INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
262 GREENWICH AVENUE, SUITE A GOSHEN, NEW YORK 10924 (845) 294-0606
2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (845) 706-4646

JOSEPH J. PIETRZAK, P.E., P.L.S., L.P.S. License No. 050023
MICHAEL F. CROGAN, P.L.S., L.P.S. License No. 050075
VINCENT A. PIETRZAK, P.L.S., L.P.S. License No. 050075
P.L.S. License No. 050075
P.L.S. License No. 050075

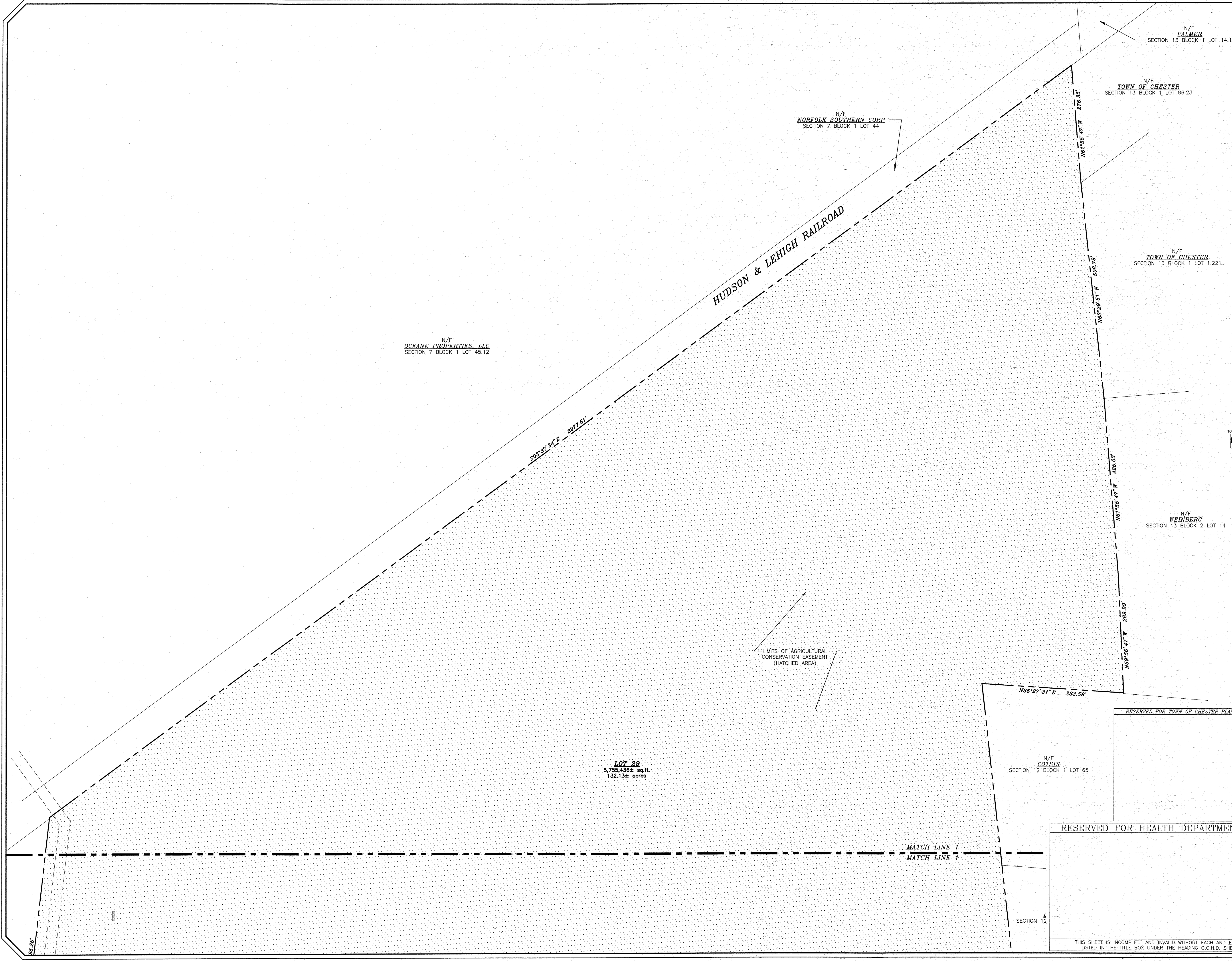
SIGNATURE: DATE: 10-28-16

BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE
PLAT SHEET (2)
SECTION 12, BLOCK 1, LOT 31

DRAWING TITLE		
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO. 3 OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 4 OF 18
SCALE 1"=100'	OLD REFERENCE WORKING CLUSTER	PROJECT NUMBER 14118.01

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 3 OF 7.



LIMITS OF 100 YEAR FLOOD PLAIN
ZONE AE PER NATIONAL FLOOD
INSURANCE PROGRAM MAP NUMBER
36071C0458E, EFFECTIVE DATE OF
AUGUST 3, 2009

CURTAIN DRAIN INVERT INFORMATION					
LOT #	HIGH POINT ELEVATION	TRANSITION POINT ELEVATION	OUTLET INVERT ELEVATION	LOT #	HIGH POINT ELEVATION
1	492.9	491.7	491.3	18	610.7
2	489.3	486.7	486.1	19	599.5
3	486.5	486.2	485.7	20	589.0
4	486.8	484.9	484.2	21	562.0
6	484.3	482.64	481.9	22	565.3
8	495.1	495.0	493.9	23	560.1
9	490.5	489.2	488.1	24	557.1
10	490.4	488.5	488.1	25	535.4
12	503.2	502.5	502.0	26	528.1
16	588.7	583.3	583.1	27	531.5
17	615.7	610.9	610.7	28	543.2

LEGEND

- PROPOSED WELL
- PROPOSED ELJEN SDS SYSTEM
- PROPOSED PROPERTY LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING PROPERTY LINE
- EXISTING TREELINE
- EXISTING OVERHEAD UTILITIES
- EXISTING GUY WIRE
- EXISTING UTILITY POLE WITH OVERHEAD WIRES
- EXISTING SIGN
- SOIL PERCOLATION TEST
- SOIL DEEP TEST

DATE	DESCRIPTION	INITIALS
10-26-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JWP
6-16-14	ORIGINAL PREPARATION DATE	JWP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 00/00/00 INITIALED BY: --

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GOSHEN, NEW YORK 10924
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2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4446

JOSEPH J. PIETRZAK
LICENSED PROFESSIONAL ENGINEER
LICENSE NO. 050023

MICHAEL F. PFAU
LICENSED PROFESSIONAL ENGINEER
LICENSE NO. 050075

10-24-16
DATE

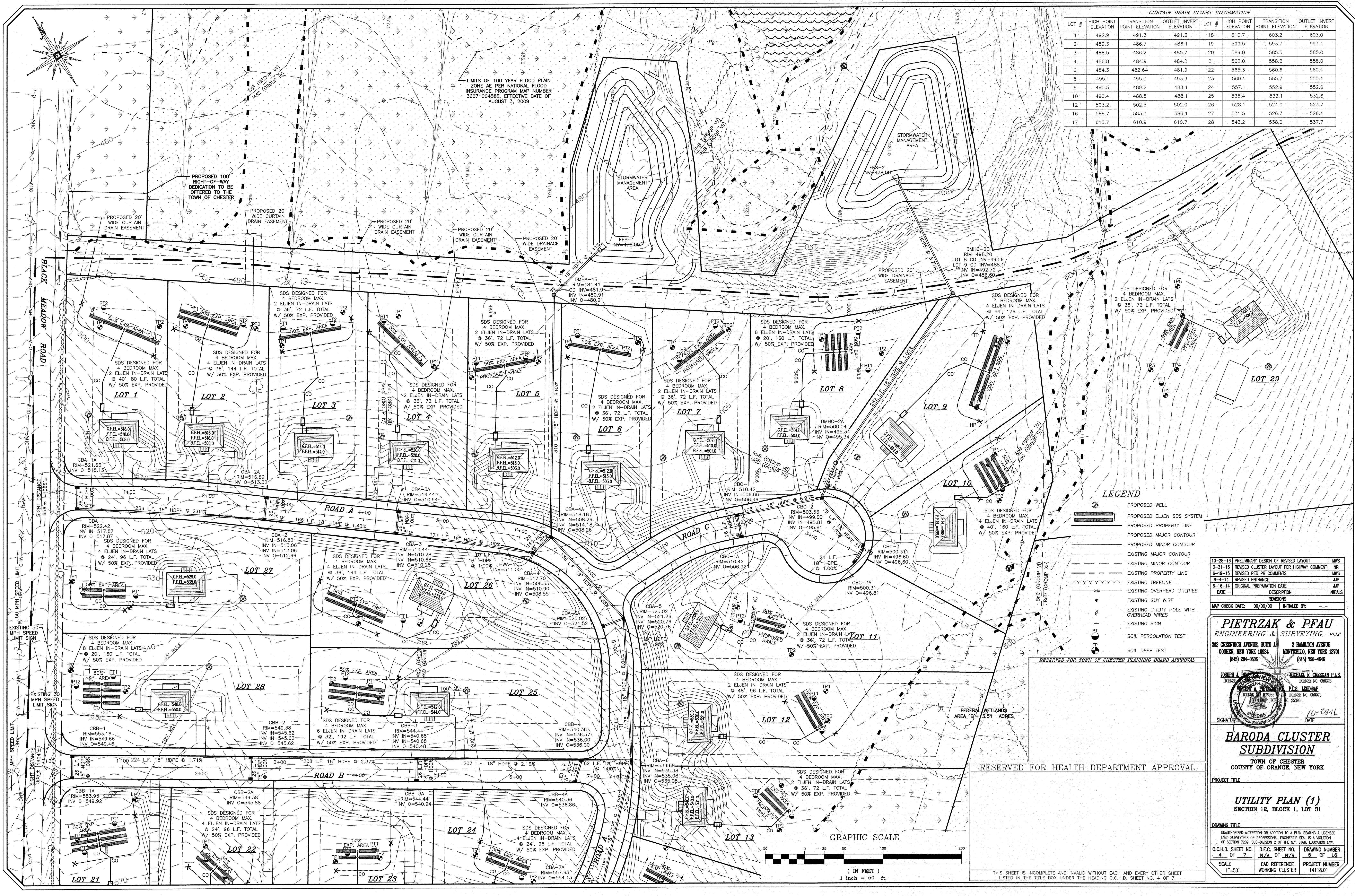
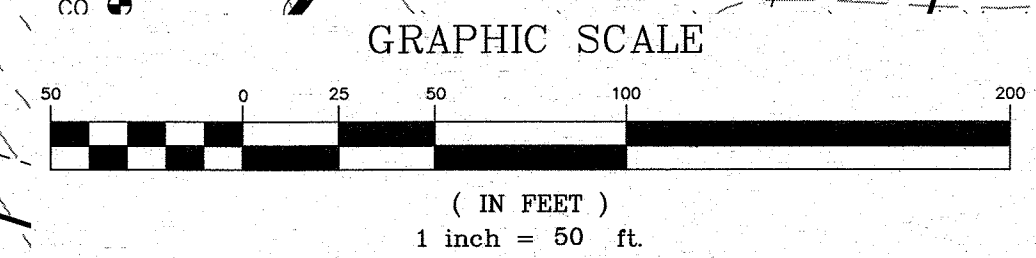
BARODA CLUSTER
SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

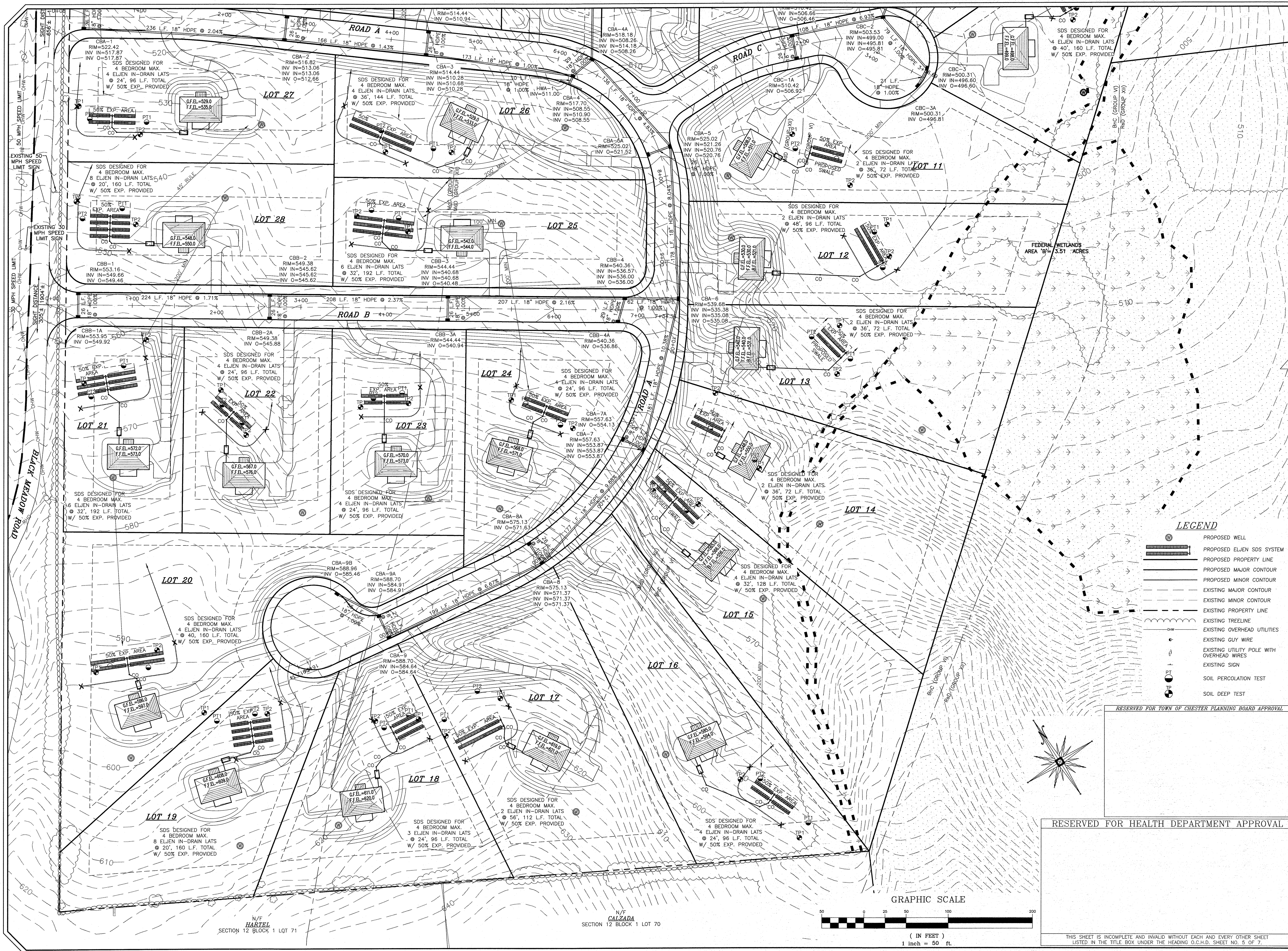
PROJECT TITLE

UTILITY PLAN (1)
SECTION 12, BLOCK 1, LOT 31

DRAWING TITLE		
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 2208, SUBDIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
4 OF 7	N/A	5 OF 16
SCALE	CAD REFERENCE	PROJECT NUMBER
1"=50'	WORKING CLUSTER	14118.01

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 4 OF 7.

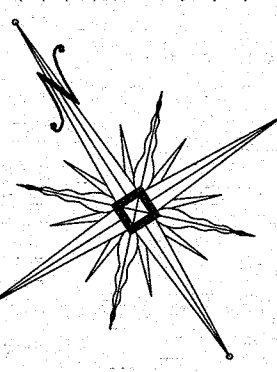




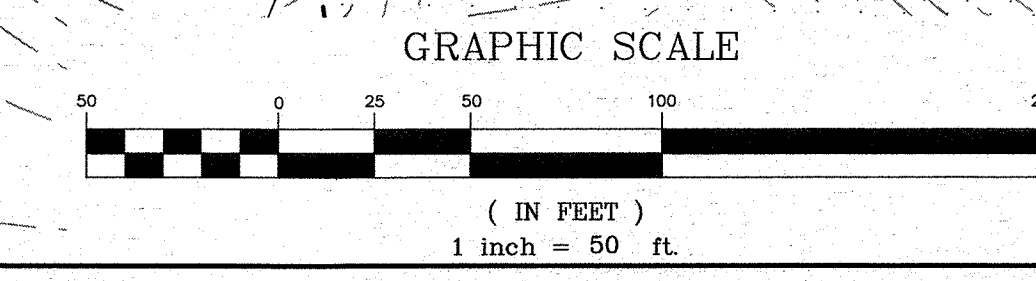
CURTAIN DRAIN INVERT INFORMATION			
LOT #	HIGH POINT ELEVATION	TRANSITION POINT ELEVATION	OUTLET INVERT ELEVATION
1	492.9	491.7	491.3
2	489.3	486.7	486.1
3	488.5	486.2	485.7
4	486.8	484.9	484.2
6	484.3	482.64	481.9
8	495.1	495.0	493.9
9	490.5	489.2	488.1
10	490.4	488.5	488.1
12	503.2	502.5	502.0
16	588.7	583.3	583.1
17	615.7	610.9	610.7
18	610.7	603.2	603.0
19	599.5	593.7	593.4
20	589.0	585.5	585.0
21	562.0	558.2	558.0
22	565.3	560.6	560.4
23	560.1	555.7	555.4
24	557.1	552.9	552.6
25	535.4	533.1	532.8
26	528.1	524.0	523.7
27	531.5	526.7	526.4
28	543.2	538.0	537.7

- LEGEND**
- PROPOSED WELL
 - PROPOSED ELJEN SDS SYSTEM
 - PROPOSED PROPERTY LINE
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING PROPERTY LINE
 - EXISTING TREELINE
 - EXISTING OVERHEAD UTILITIES
 - EXISTING GUY WIRE
 - EXISTING UTILITY POLE WITH OVERHEAD WIRES
 - EXISTING SIGN
 - SOIL PERCOLATION TEST
 - SOIL DEEP TEST

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL



RESERVED FOR HEALTH DEPARTMENT APPROVAL



DATE	DESCRIPTION	INITIALS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PD COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JJP
6-16-14	ORIGINAL PREPARATION DATE	JJP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 00/00/00 INITIALED BY: --

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2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 706-4446

SIGNATURE: _____ DATE: 10-29-16

BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

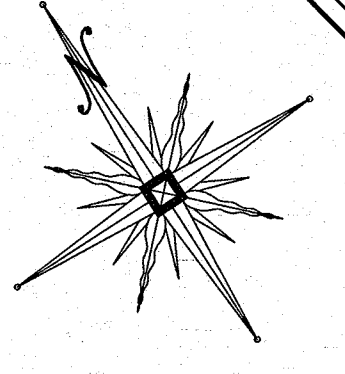
UTILITY PLAN (2)
SECTION 12, BLOCK 1, LOT 31

DRAWING TITLE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 2208, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
5 OF 7	N/A OF N/A	6 OF 16

SCALE	CAD REFERENCE	PROJECT NUMBER
1"=50'	WORKING CLUSTER	14118.01



LIMITS OF 100 YEAR FLOOD PLAIN
ZONE AE PER NATIONAL FLOOD
INSURANCE PROGRAM MAP NUMBER
36071C0458E, EFFECTIVE DATE OF
AUGUST 3, 2009

PROPOSED 100'
RIGHT-OF-WAY
DEDICATION TO BE
OFFERED TO THE
TOWN OF CHESTER

PROPOSED
DISTURBANCE
LIMIT LINE
(TYP.)

STORMWATER
MANAGEMENT
AREA

STORMWATER
MANAGEMENT
AREA

PROPOSED
DISTURBANCE
LIMIT LINE
(TYP.)

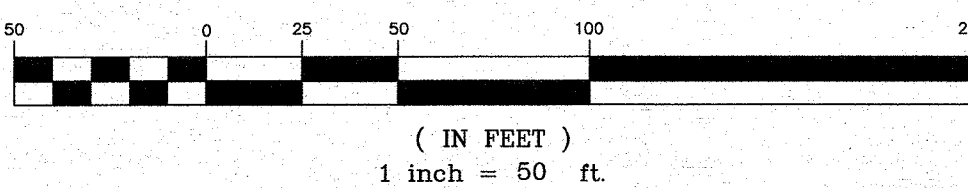
BLACK MEADOW ROAD

ROAD A

ROAD C

ROAD B

GRAPHIC SCALE



LEGEND

- PROPOSED WELL
- PROPOSED ELIEN SDS SYSTEM
- PROPOSED PROPERTY LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED DISTURBANCE LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING PROPERTY LINE
- EXISTING TREELINE
- EXISTING OVERHEAD UTILITIES
- EXISTING GUY WIRE
- EXISTING UTILITY POLE WITH OVERHEAD WIRES
- EXISTING SIGN
- SOIL PERCOLATION TEST
- SOIL DEEP TEST

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	MR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JWP
6-16-14	ORIGINAL PREPARATION DATE	JWP
DATE	DESCRIPTION	INITIALS
REVISIONS		
MAP CHECK DATE:	00/00/00	INITIALED BY: --

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ENGINEERING & SURVEYING, PLLC
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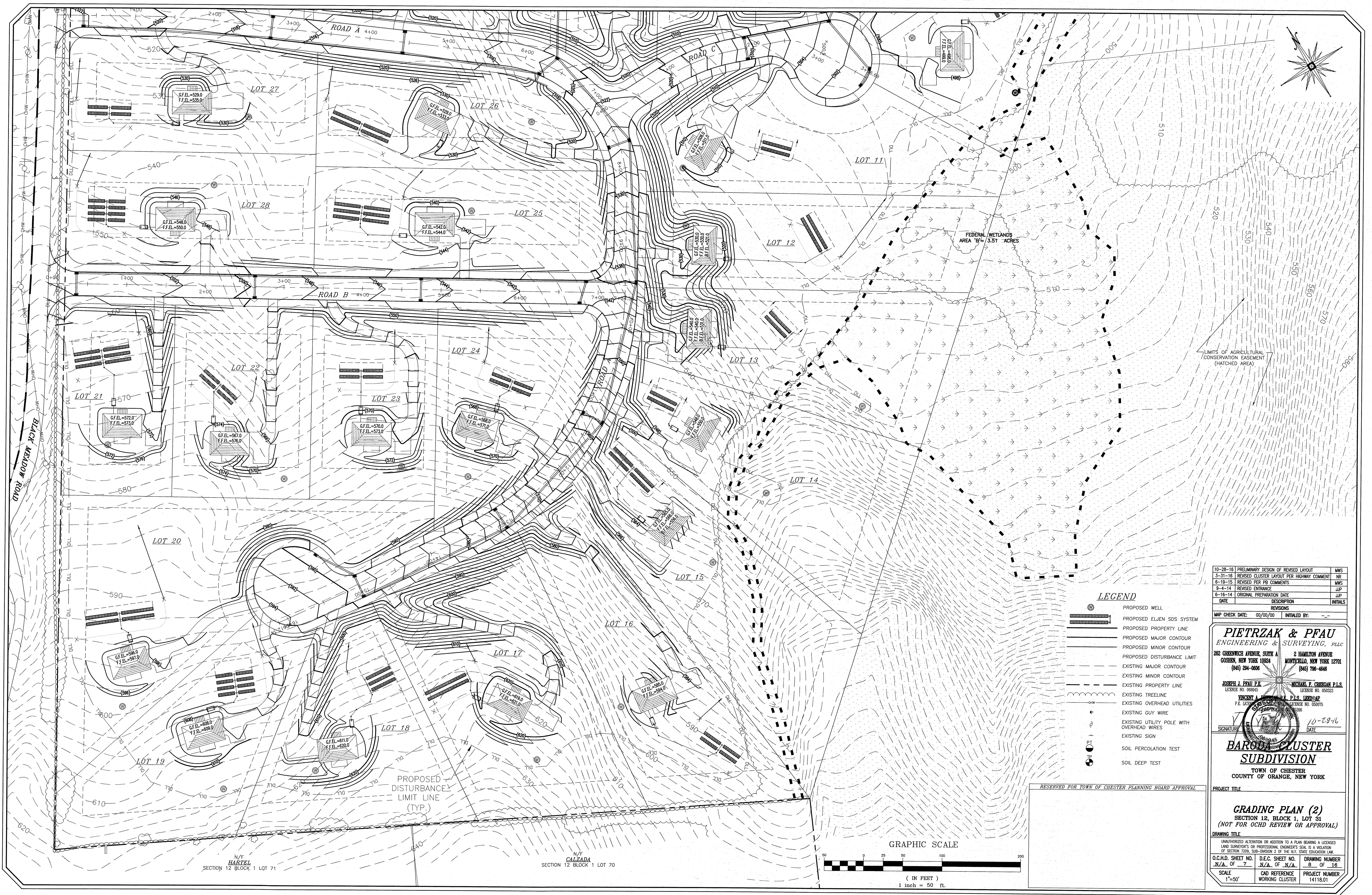
JOSEPH J. PFAU P.E.
LICENSE NO. 050023
MICHAEL F. CROGAN P.L.S.
LICENSE NO. 050075
DATE: 10-28-16

BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

GRADING PLAN (1)
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

DRAWING TITLE		
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO. 1	D.E.C. SHEET NO. 1	DRAWING NUMBER 7 OF 18
N/A OF 7	N/A OF N/A	PROJECT NUMBER 14118.01
SCALE 1"=50'	CAD REFERENCE WORKING CLUSTER	

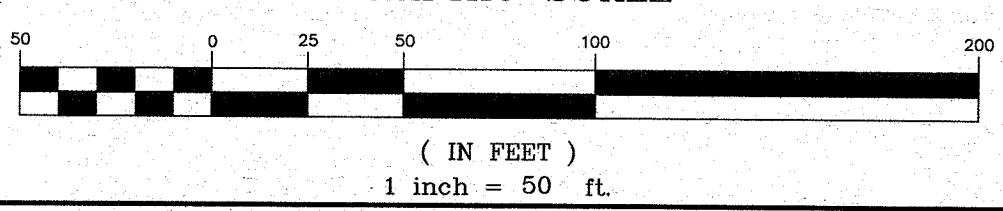


LEGEND

- PROPOSED WELL
- PROPOSED ELVEN SDS SYSTEM
- PROPOSED PROPERTY LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED DISTURBANCE LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING PROPERTY LINE
- EXISTING TREELINE
- EXISTING OVERHEAD UTILITIES
- EXISTING GUY WIRE
- EXISTING UTILITY POLE WITH OVERHEAD WIRES
- EXISTING SIGN
- SOIL PERCOLATION TEST
- SOIL DEEP TEST

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

GRAPHIC SCALE



10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PD COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JJP
6-16-14	ORIGINAL PREPARATION DATE	JJP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 00/00/00 INITIALED BY: --

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VINCENT A. PIETRZAK P.E.
P.E. LICENSE NO. 000075

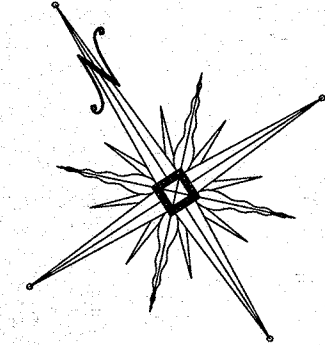
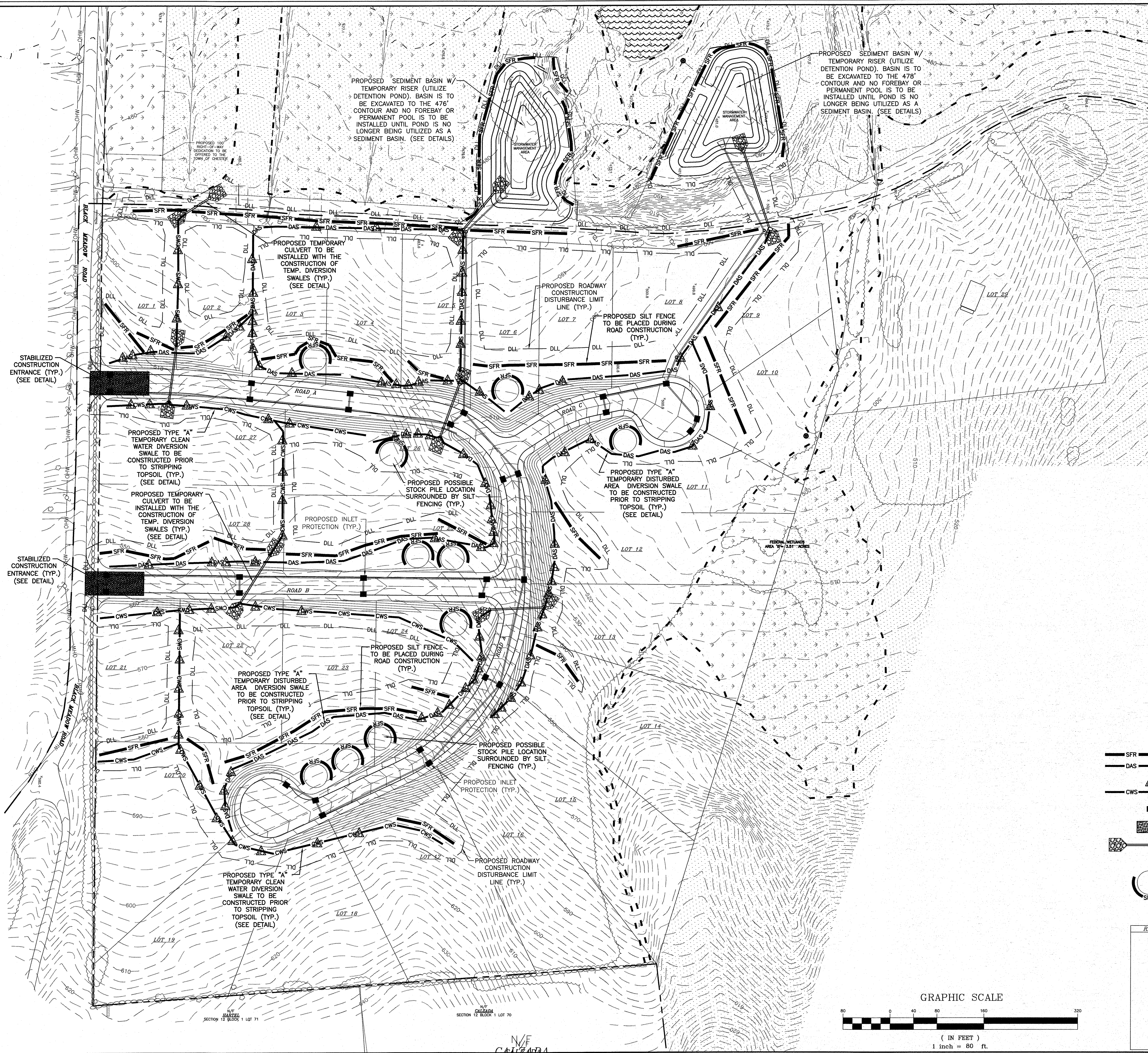
MICHAEL F. CROGAN P.E.
LICENSE NO. 050323

BARODA CLUSTER
SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

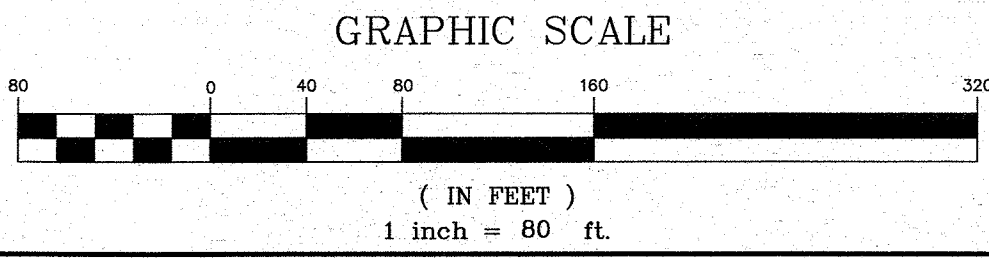
PROJECT TITLE

GRADING PLAN (2)
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
N/A. OF 7	N/A. OF N/A.	8 OF 16
SCALE	CAD REFERENCE	PROJECT NUMBER
1"=50'	WORKING CLUSTER	14118.01



- LEGEND**
- SFR SFR SILT FENCE FOR ROADWAY CONSTRUCTION
 - DAS DAS TEMPORARY DIVERSION SWALE FOR DISTURBED AREAS
 - CWS CWS TEMPORARY DIVERSION SWALE FOR CLEAN WATER
 - INLET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - TEMPORARY CULVERT WITH INLET & OUTLET PROTECTION
 - PROPOSED DISTURBANCE LIMIT LINE
 - PROPOSED SOIL STOCKPILE LOCATION



10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
5-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 05/05/20 INITIALED BY: --

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2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (945) 796-4646

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MICHAEL F. CROGAN, P.E., S.D., L.S. License No. 0560075

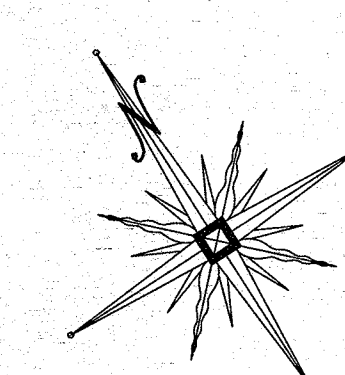
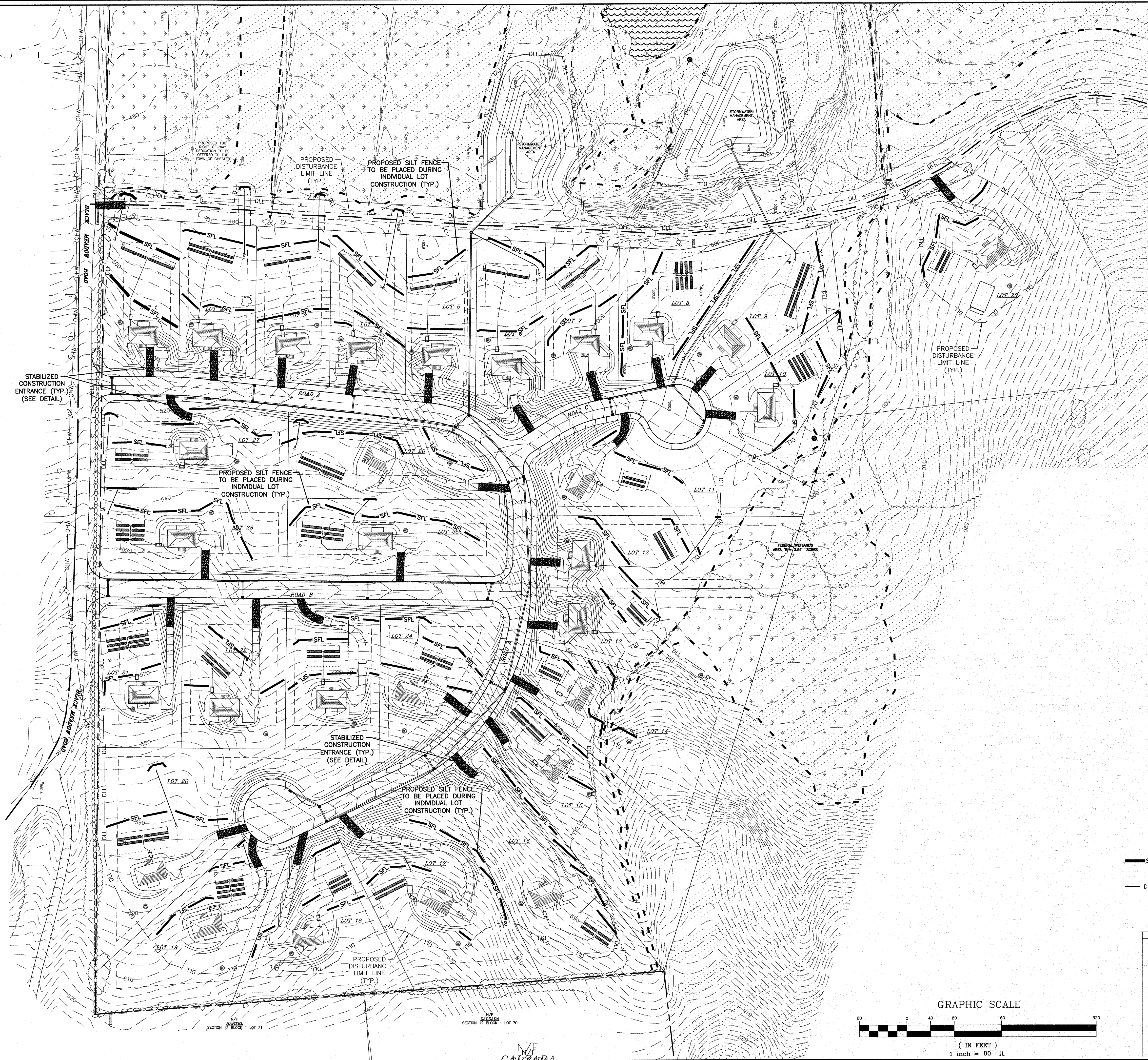
BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE
**EROSION CONTROL PLAN
ROADWAY CONSTRUCTION**
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

DRAWING TITLE
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

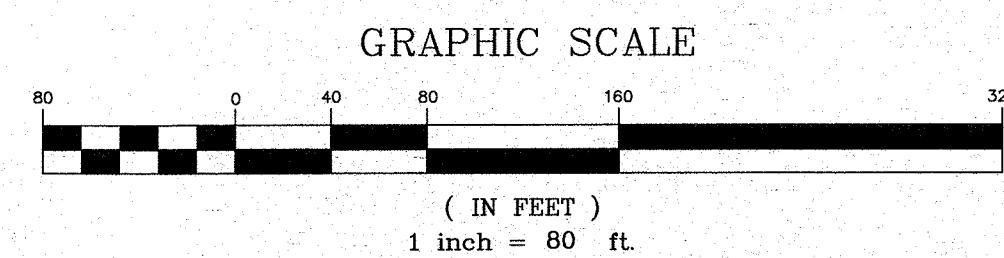
O.C.H.D. SHEET NO. 7 N/A OF 7
D.E.C. SHEET NO. 9 OF 16
N/A OF N/A
PROJECT NUMBER 14118.01

SCALE 1"=80'
CAD REFERENCE WORKING CLUSTER



LEGEND

- SFL SFL SILT FENCE FOR LOT CONSTRUCTION
- STABILIZED CONSTRUCTION ENTRANCE
- DLL DLL PROPOSED DISTURBANCE LIMIT LINE



10-28-18	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-18	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	HR
6-19-18	REVISED PER PB COMMENTS	MWS
9-4-18	REVISED ENTRANCE	JUP
6-16-18	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE:	00/00/00	INITIALED BY:	--
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ROBERT J. CROGAN P.E.
LICENSE NO. 650223

VINCENT J. CROGAN P.E.
P.E. LICENSE NO. 068994

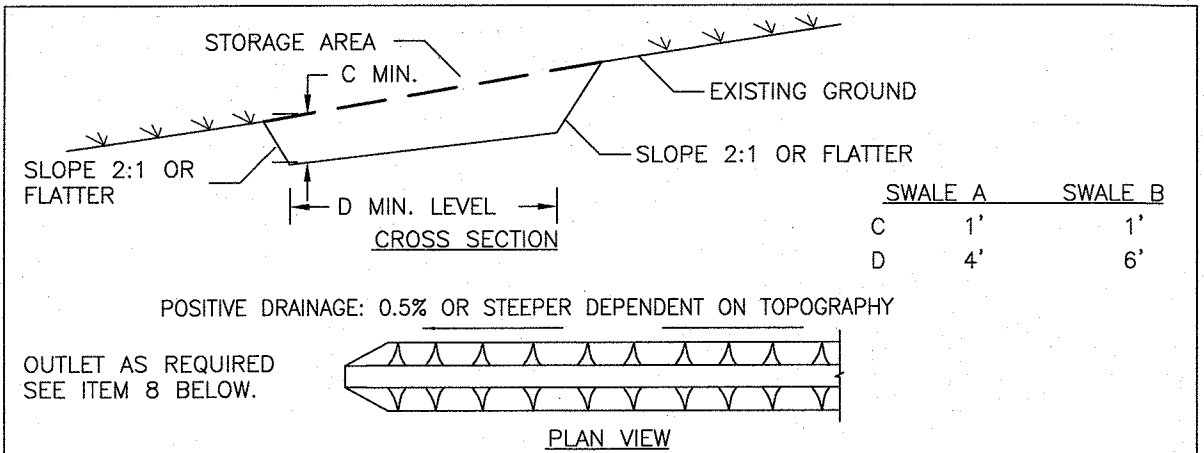
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BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE:
**EROSION CONTROL PLAN
INDIVIDUAL LOT CONSTRUCTION**
SECTION 12, BLOCK 1, LOT 91
(NOT FOR OCHD REVIEW OR APPROVAL)

DRAWING TITLE:
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 10 OF 18
SCALE 1"=80'	CAD REFERENCE WORKING CLUSTER	PROJECT NUMBER 14118.01



CONSTRUCTION SPECIFICATIONS

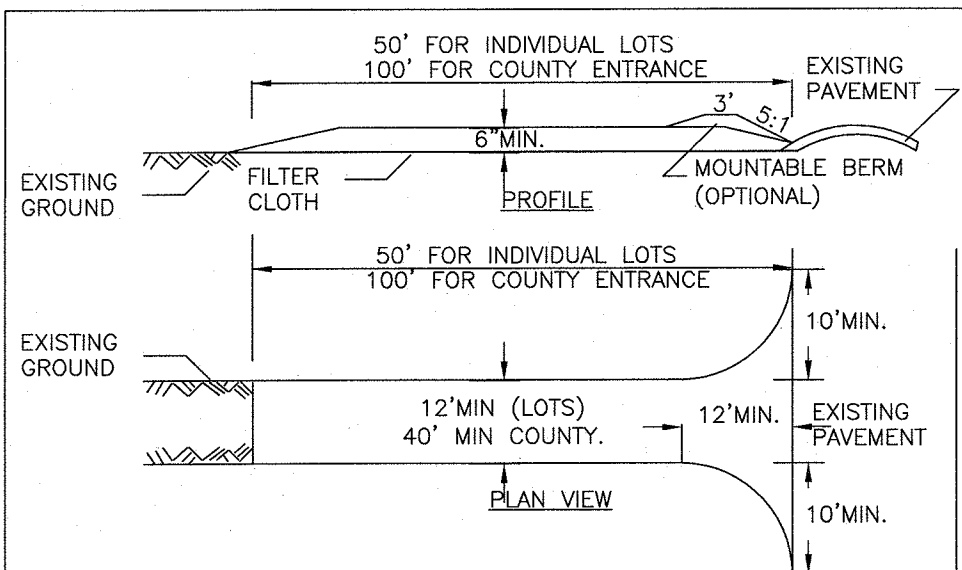
1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL 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.
5. THE 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 WILL IMPED NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	A/5 AC. OR LESS	B/5 AC. - 10AC.
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR, SOD	LINED WITH 4-8" RIP-RAP OR RECYCLED CONCRETE EQUIVALENT
4	8.1-20.3%	LINED WITH 4-8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

TEMPORARY SWALE



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - 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 WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	STABILIZED CONSTRUCTION ENTRANCE
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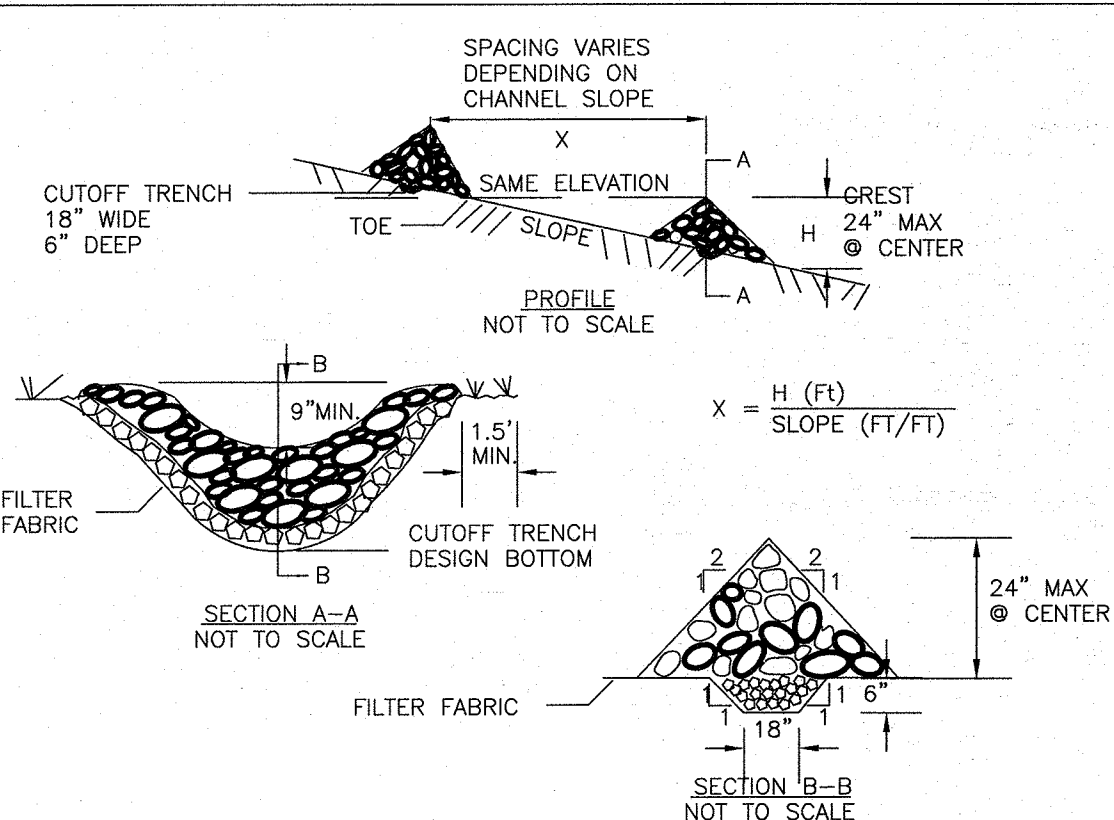
EROSION CONTROL SEQUENCE

MEASURES SHALL BE TAKEN TO PREVENT SOIL EROSION DURING PROJECT CONSTRUCTION. ALL FRESHLY DISTURBED AREAS THAT WILL REMAIN DISTURBED FOR MORE THAN A PERIOD OF FOURTEEN (14) DAYS SHALL BE STABILIZED BY TEMPORARY SEEDING AS INDICATED ON THE TEMPORARY SEEDING SCHEDULE. DISTURBED AREAS SHALL BE MINIMAL IN SIZE AND SHALL NOT EXCEED THE APPROVED CLEARING AND GRADING LIMITS. THE FOLLOWING MEASURES SHALL BE IMPLEMENTED AS CONSTRUCTION PROGRESSES.

- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE LIMITS OF CLEARING AND GRADING SHALL BE MARKED. FILTER FABRIC SEDIMENTATION BARRIERS (SILT FENCE) SHALL BE PLACED ALONG THE DOWNGRADE PERIMETER OF THE SITE AND ANY OTHER AREAS WHERE SILT FENCE IS INDICATED AS TO BE INSTALLED "PRIOR TO CONSTRUCTION" ON THE APPROVED PLANS. INSTALLATION IS TO BEGIN AT THE DOWNSTREAM PORTIONS OF THE SITE THEN WORKING UPSTREAM.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE BUILT IN THE AREAS SHOWN ON THE APPROVED PLANS AND WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PUBLIC THOROUGHFARE. STABILIZED ENTRANCES SHALL BE BUILT IN ACCORDANCE WITH THE STABILIZED CONSTRUCTION ENTRANCE DETAIL.
- UPON COMPLETION OF CLEARING AND GRUBBING ACTIVITIES, TOPSOIL SHALL BE STRIPPED AND STOCKPILED FROM ALL AREAS TO BE DISTURBED. STOCKPILED TOPSOIL SHALL BE STABILIZED BY TEMPORARY SEEDING AND SURROUNDED WITH A PERIMETER SILT FENCE.
- TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCING EARTH MOVING ACTIVITIES. THIS INCLUDES SEDIMENTATION TRAPS, TYPE "B" DIVERSION SWALES (WITH CHECK DAMS IF APPLICABLE) AND SILT FENCE IN AREAS NOT DESIGNATED TO BE GRADED. INSTALLATION SHALL BEGIN AT DOWNSTREAM PORTIONS OF THE SITE THEN WORKING UPSTREAM.
- IMMEDIATELY AFTER COMPLETION OF ROUGH GRADING, REMAINING TEMPORARY EROSION CONTROL SHALL BE INSTALLED AS SPECIFIED ON THE APPROVED PLANS. THIS INCLUDES ANY REMAINING SILT FENCE AND TYPE "A" DIVERSION SWALES (WITH CHECK DAMS IF APPLICABLE). AREAS NOT REQUIRING FURTHER EARTHWORK SHALL BE FINE GRADED, TOPSOILED, AND STABILIZED AS EARLY AS POSSIBLE.
- ANY PROPOSED STORM DRAINAGE SHALL BE INSTALLED AND INCORPORATED INTO EROSION CONTROL AS SPECIFIED ON THE APPROVED PLANS. STORM DRAINAGE COMPONENTS SHALL BE PROTECTED FROM SILTATION AS INDICATED.
- UPON COMPLETION OF CONSTRUCTION ACTIVITIES, REMAINING AREAS SHALL BE FINE GRADED, TOPSOILED, AND STABILIZED.
- TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED ONCE UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED. REMOVAL OF TEMPORARY EROSION CONTROL DEVICES SHALL BEGIN WITH THE MOST UPSTREAM PORTIONS OF THE SITE THEN WORKING DOWNSTREAM.
- ALL NEWLY SEED VEGETATIVE COVER SHALL BE MAINTAINED. WASHOUTS OR POORLY GROWING AREAS SHALL BE CORRECTED AS THEY OCCUR.

GENERAL EROSION CONTROL NOTES

- FILTER FABRIC IS TO BE MIRAFI 140 AS MANUFACTURED BY THE CELANESE CORPORATION OR APPROVED EQUAL.
- WHEREVER FEASIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED.
- ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT.
- WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL OF THE ATTACHED DRAWINGS.

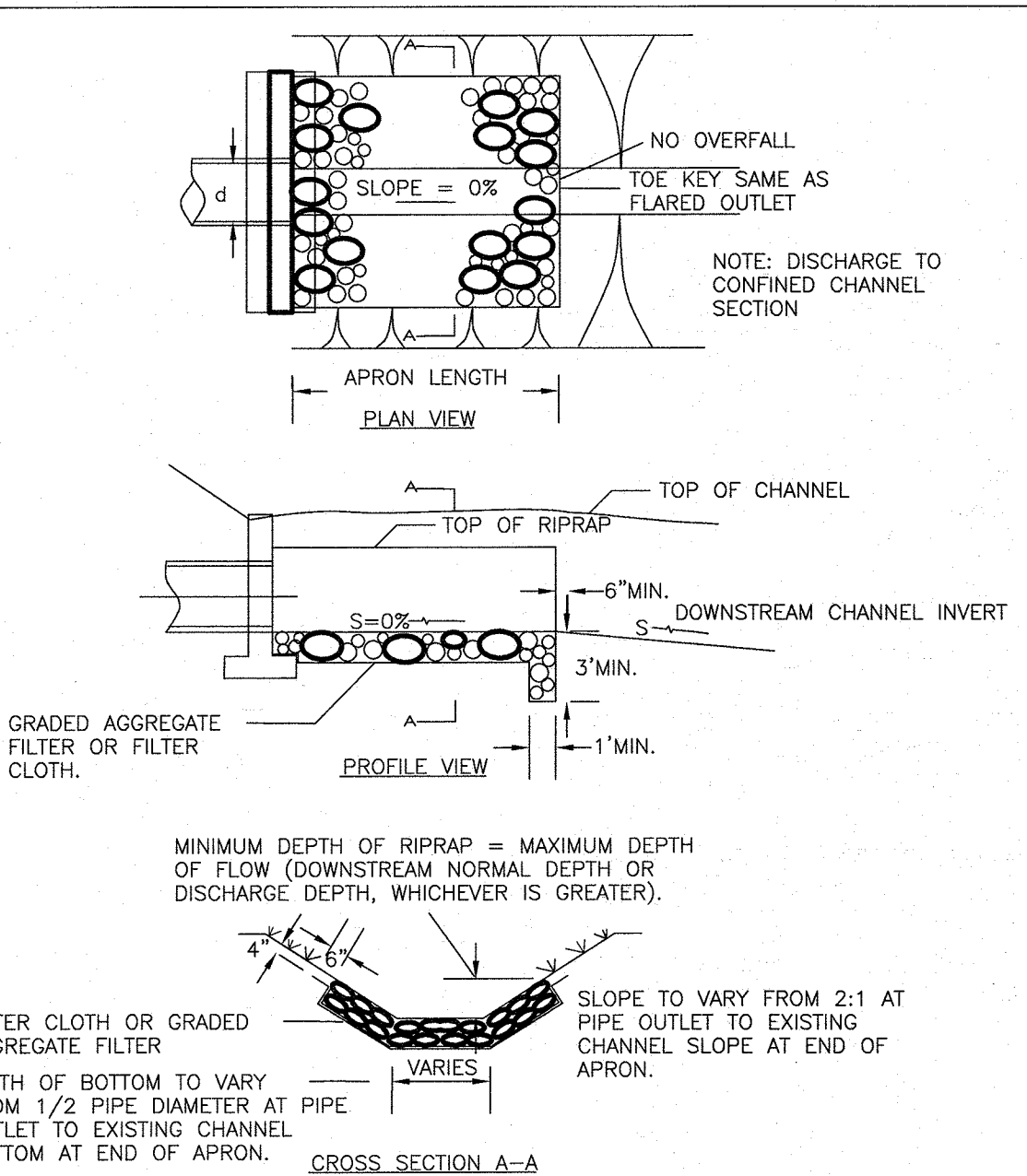


CONSTRUCTION SPECIFICATIONS

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 ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM 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 APERTURENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	CHECK DAM
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U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	RIPRAP OUTLET PROTECTION EXAMPLE
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MAINTENANCE REQUIREMENTS

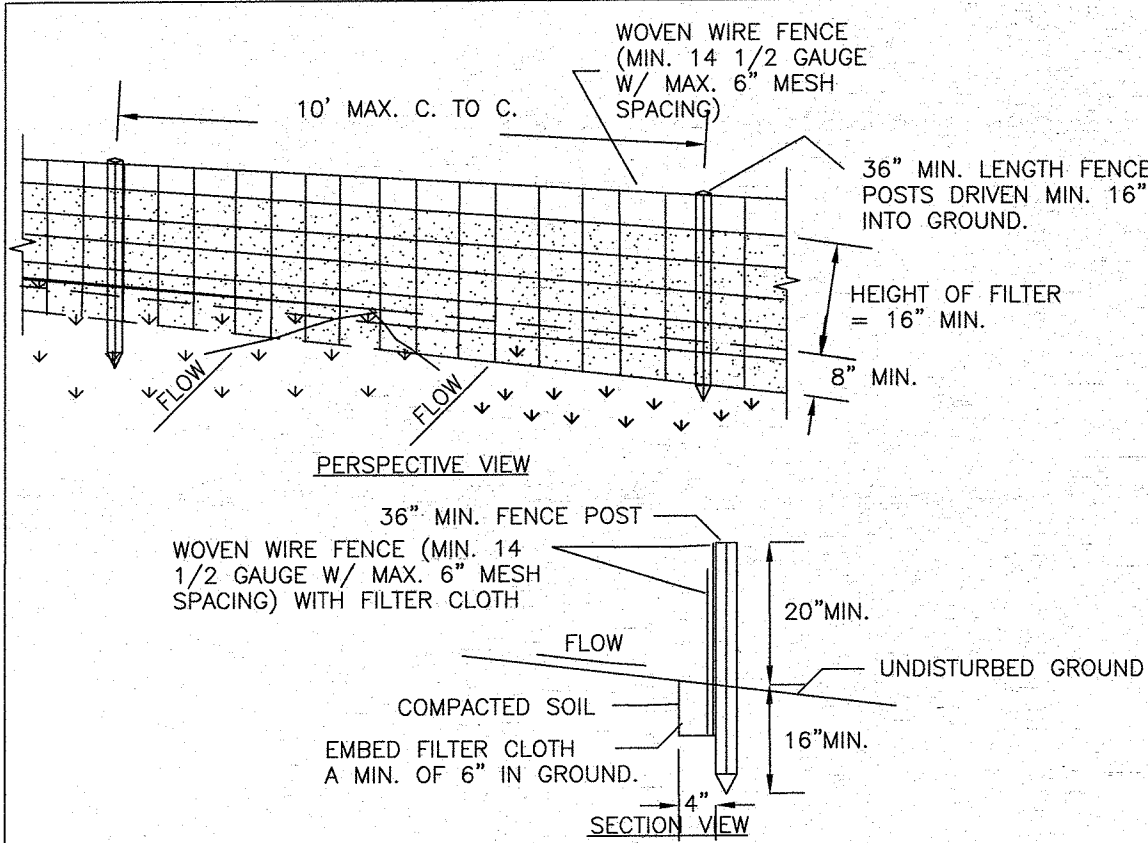
- THE MAINTENANCE OF EROSION CONTROL DEVICES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE JOB SUPERINTENDENT WILL MONITOR THE CONDITION OF ALL THE DEVICES. CLEAN OR REPLACE STRUCTURES AS CLIMATIC CONDITIONS REQUIRE. THE DEVELOPER WILL ALSO BE SUBJECT TO THE DIRECTIVE OF THE DESIGN ENGINEER AND TOWN REPRESENTATIVES TO INCLUDE TOWN ENGINEER, HIGHWAY SUPERINTENDENT AND BUILDING INSPECTOR.
- GENERAL CONTRACTOR AND ALL CONTRACTORS SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPROVED PLANS AND MAY BE SUBJECT TO ADDITIONAL EROSION CONTROL REQUIREMENTS AS CONDITIONS MAY ARISE IN THE FIELD OR AS DIRECTED BY THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN ACCORDANCE WITH THE APPROVED PLANS, MANUFACTURER'S RECOMMENDATIONS AS DIRECTED BY THE DESIGN ENGINEER AND TOWN REPRESENTATIVES INCLUDING TOWN ENGINEER, HIGHWAY SUPERINTENDENT AND BUILDING INSPECTOR.
- NO EROSION CONTROL STRUCTURES SHALL BE REMOVED UNTIL ALL WORK UPSTREAM THEREOF HAS BEEN COMPLETED, INCLUDING STABILIZATION AND APPROVED BY THE DESIGN ENGINEER AND TOWN REPRESENTATIVES.
- CONSTRUCTION ACTIVITIES TO BE LIMITED TO THE PERIOD OF 7:00 AM TO 7:00 PM.
- ALL CONSTRUCTION EQUIPMENT SHALL HAVE PROPERLY SIZED MAINTAINED MUFFLERS.
- ALL CONSTRUCTION EQUIPMENT SHALL BE TURNED OFF WHEN NOT IN USE.

STREAMS DRAINAGE SWALES AND EMBANKMENTS

- ALL CONSTRUCTION ACTIVITIES IN OR EXISTING AROUND DRAINAGE SWALES OR WETLANDS ARE TO BE PROVIDED WITH TEMPORARY EROSION CONTROL STRUCTURES AS SHOWN IN DETAIL. LOCATED IMMEDIATELY DOWNSTREAM FROM SUCH ACTIVITY. THESE STRUCTURES ARE TO BE IN PLACE AS SHOWN PRIOR TO THE START OF ANY UP-STREAM CONSTRUCTION ACTIVITY.
- CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS LIVE STREAMS OR DRAINAGE SWALES EXCEPT BY MEANS OF BRIDGES OR CULVERTS OR OTHER APPROVED METHODS.
- ALL EMBANKMENTS TO BE GRADED AND SEEDING IMMEDIATELY UPON BEING LAID BACK.
- STABILIZATION OF THE SWALES WILL INCLUDE SEEDING AND STRAW MULCH ON SLOPES LESS THAN 5% AND JUTE NETTING OR EQUAL ON SLOPES EXCEEDING 5%.
- TOPSOIL AND/OR EARTH STOCKPILE SHALL BE LOCATED OUTSIDE OF EXISTING DRAINAGE SWALES, WETLANDS AND ADJACENT AREAS. SILT FENCES WILL BE PLACED ALONG THE TOE OF THE PILES AND THESE PILES SHALL RECEIVE TEMPORARY SEEDING.

SLOPE STABILIZATION SEEDING METHOD & MULCHING

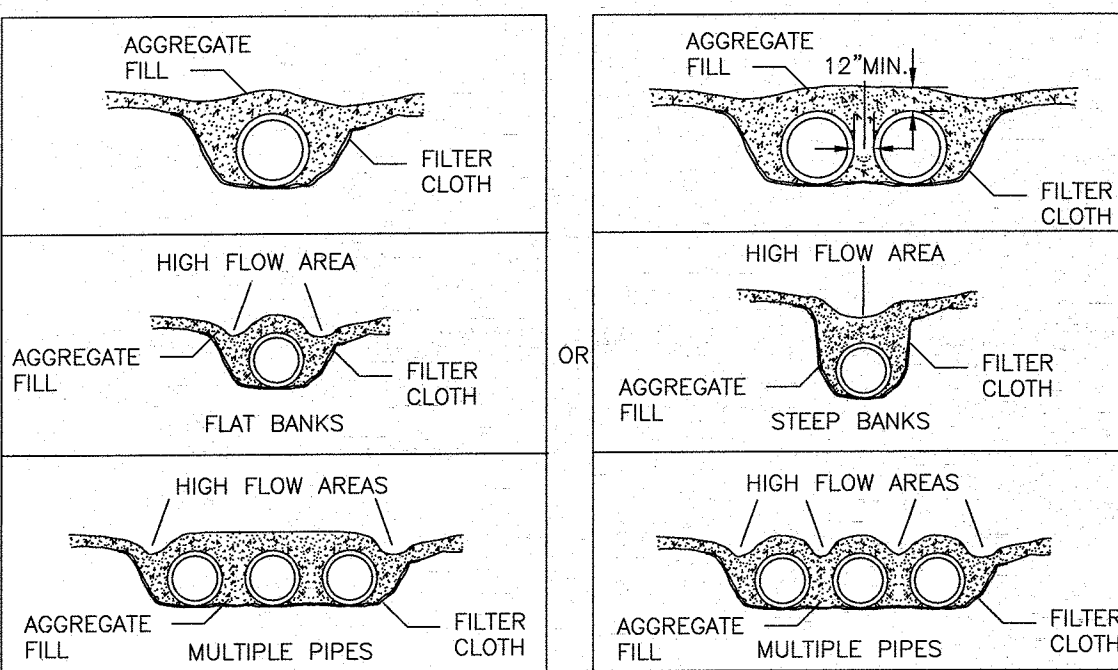
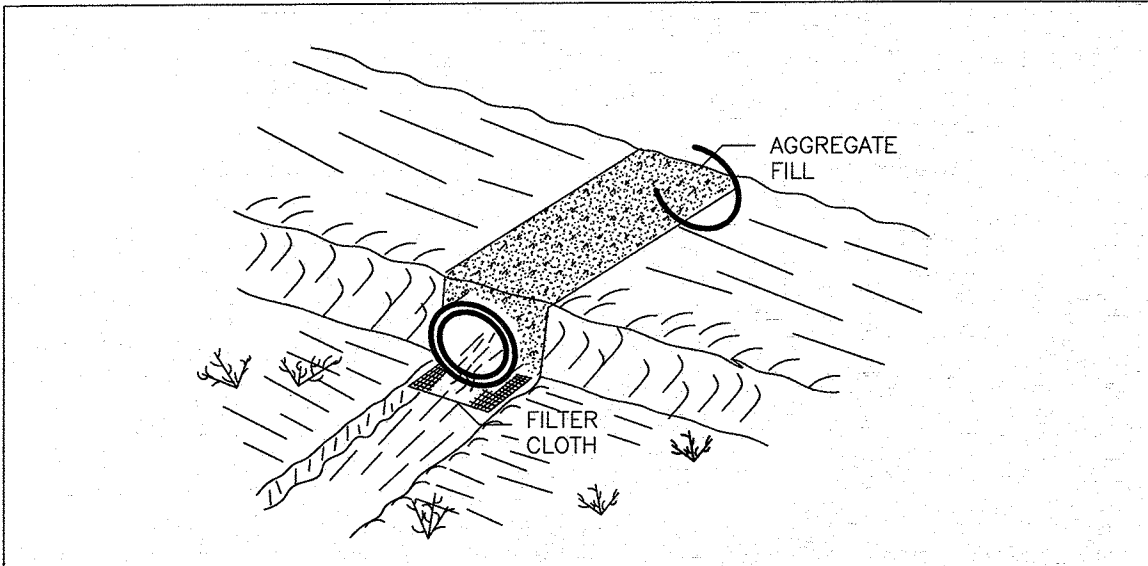
- SLOPES OF 4:1 OR GREATER (HORIZONTAL:VERTICAL)
- SLOPES SHALL BE HYDROSEEDING WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2000 LBS/ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BiO-Mesh60 NETTING AS MANUFACTURED BY RELJANKA INTERNATIONAL OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
- GENTLE SLOPES AND FLAT AREAS
- AREAS SHALL BE SEEDING 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 2000 LBS/ACRE. AREAS SEEDING BY BROADCASTING SHALL BE LIGHTLY RAKED AND PACKED PRIOR TO PLACING MULCH.



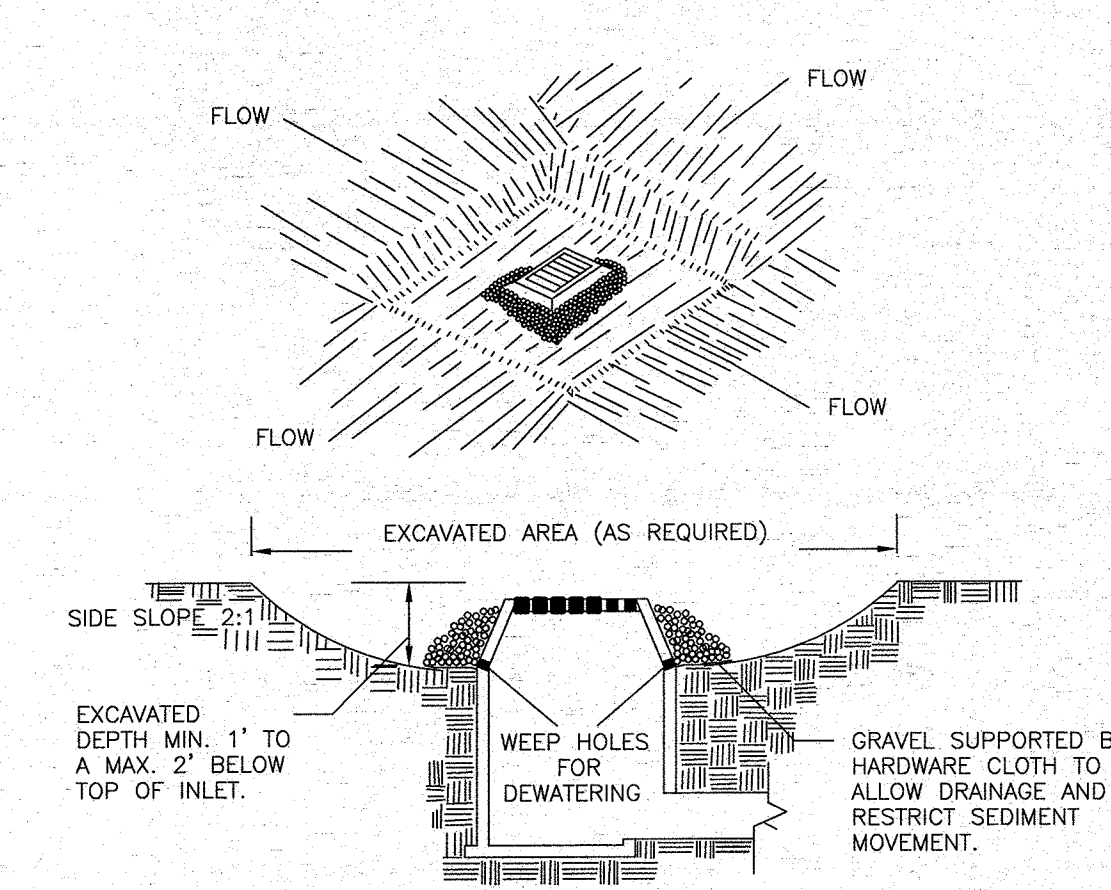
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	SILT FENCE
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U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	TEMPORARY ACCESS CULVERT
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CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY, AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	EXCAVATED DROP INLET PROTECTION
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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 2000 LBS/ACRE.
- ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

SPECIES	APPLICATION RATE
RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT./NOV.)	30 LBS/ACRE (0.7 LBS/1000 SF)

PERMANENT SEEDING MIXTURES

MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS

SPECIES	APPLICATION RATE
EMPIRE BIRDSFOOT TREFOIL	8 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
RYEGRASS	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 EXCESSIVELY TO EXCESSIVELY DRAINED SOILS)	
65% FINE FESCUE	114-143 LBS/ACRE
15% PERENNIAL RYEGRASS	26-35 LBS/ACRE
20% KENTUCKY BLUEGRASS BLEND	35-44 LBS/ACRE

SHADY DRY SITES (WELL TO SOMEWHAT POORLY DRAINED SOILS)	
80% SHADE TOLERANT KENTUCKY BLUEGRASS BLEND	105-138 LBS/ACRE
20% PERENNIAL RYEGRASS	25-37 LBS/ACRE

SHADY WET SITES (SOMEWHAT POOR TO POORLY DRAINED SOILS)	
70% ROUGH BLUEGRASS	60-91 LBS/ACRE
80% SHADE TOLERANT KENTUCKY BLUEGRASS BLEND	25-39 LBS/ACRE

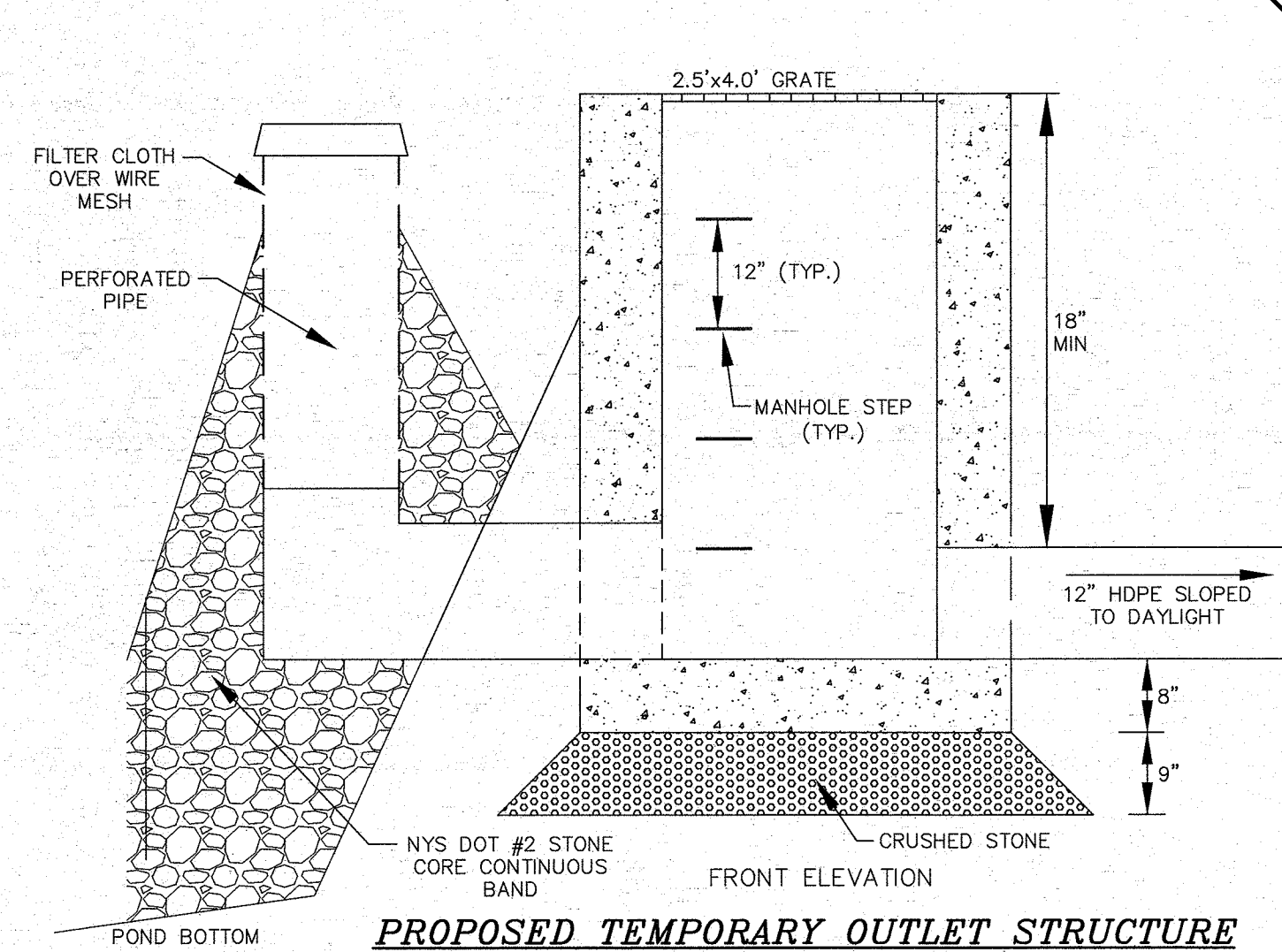
SEEDBED PREPARATION & AMENDMENTS

MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS

- SCARIFY SOIL TO DEPTH OF 4" TO 6" IF COMPACTED.
- REMOVED LARGE STONES AND STUMPS ALLOWING ROCKS, ROOTS CLOUDS AND OTHER NATURAL DEBRIS TO REMAIN.
- ROUGHEN SLOPE FACES BY MAKING GROVES 2"-3" DEEP, PERPENDICULAR TO THE SLOPE WITH DISK OR YORK RAKE.
- LIME AS REQUIRED TO ACHIEVE A pH OF 6.0.
- FERTILIZE AT A RATE OF 600 LBS/ACRE OF 5-10-10 FERTILIZER OR AS RECOMMENDED BY SOIL TESTS.
- INCORPORATE LIME AND FERTILIZER INTO TOP 2"-4" OF SOIL BY ROUGHENING.

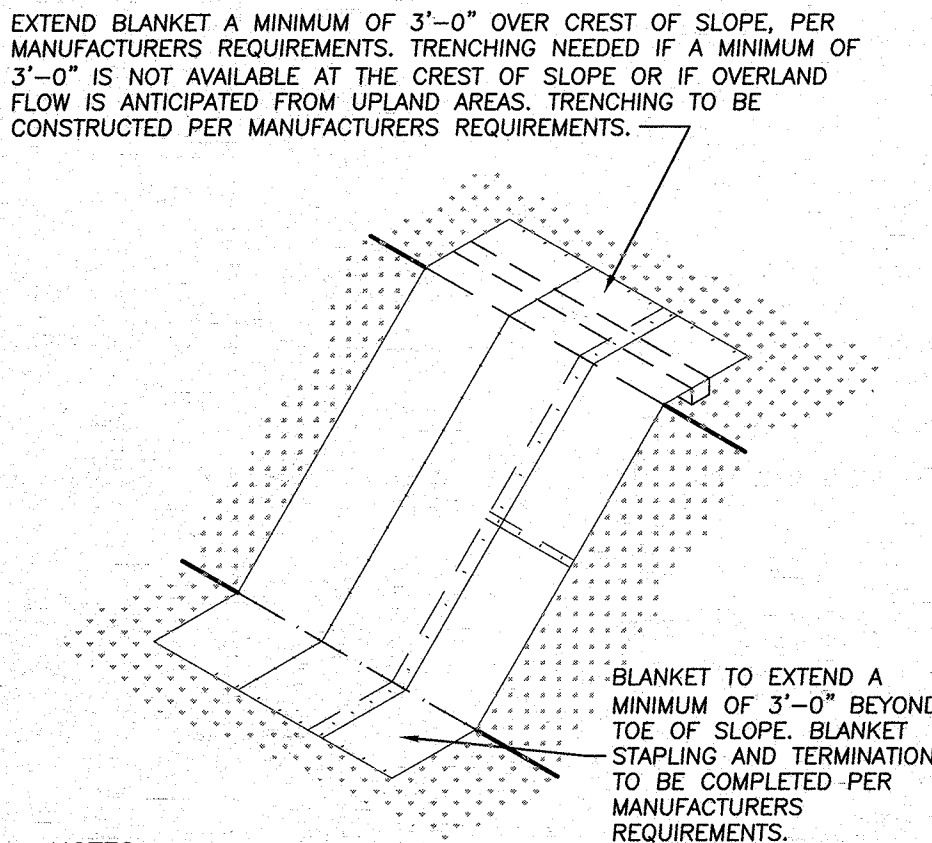
GENERAL RECREATION AREAS AND LAWNS

- PLACE TOPSOIL TO A MINIMUM DEPTH OF 4"
- SCARIFY SOIL TO A DEPTH OF 4"-6" IF COMPACTED
- REMOVE ALL STONES OVER 1" IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.
- LIME AS REQUIRED TO ACHIEVE A pH OF 6.5.
- FERTILIZE AT A RATE OF 850 LBS/ACRE OF 5-10-10 OR EQUIVALENT FERTILIZER OR AS RECOMMENDED BY SOIL TESTS.
- INCORPORATE LIME AND FERTILIZER INTO TOP 2"-4" OF TOPSOIL.
- SMOOTH AND FIRM THE SEEDBED.



PROPOSED TEMPORARY OUTLET STRUCTURE FOR SEDIMENT BASIN DETAIL N.T.S.

- NOTES:
1. ONCE THE DETENTION/TREATMENT POND IS NO LONGER BEING USED AS A SEDIMENT BASIN, THE OUTLET STRUCTURE IS TO BE MODIFIED TO CONFORM TO THE OUTLET STRUCTURE DETAIL PROVIDED FOR THE POND.



BLANKET TO EXTEND A MINIMUM OF 3'-0" BEYOND TOE OF SLOPE. BLANKET STAPLING AND TERMINATION TO BE COMPLETED PER MANUFACTURERS REQUIREMENTS.

- NOTES:
1. EROSION CONTROL BLANKET TO BE CURLEX I (EXCELSIOR EROSION CONTROL BLANKETS) OR APPROVED EQUAL
 2. EROSION CONTROL BLANKET TO BE PLACED ON DISTURBED SLOPES GREATER THAN 2 HORIZONTAL TO 1 VERTICAL, AS SHOWN ON THE EROSION CONTROL PLAN.
 3. EROSION CONTROL BLANKET IS TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS.

SLOPE STABILIZATION BLANKET DETAIL N.T.S.

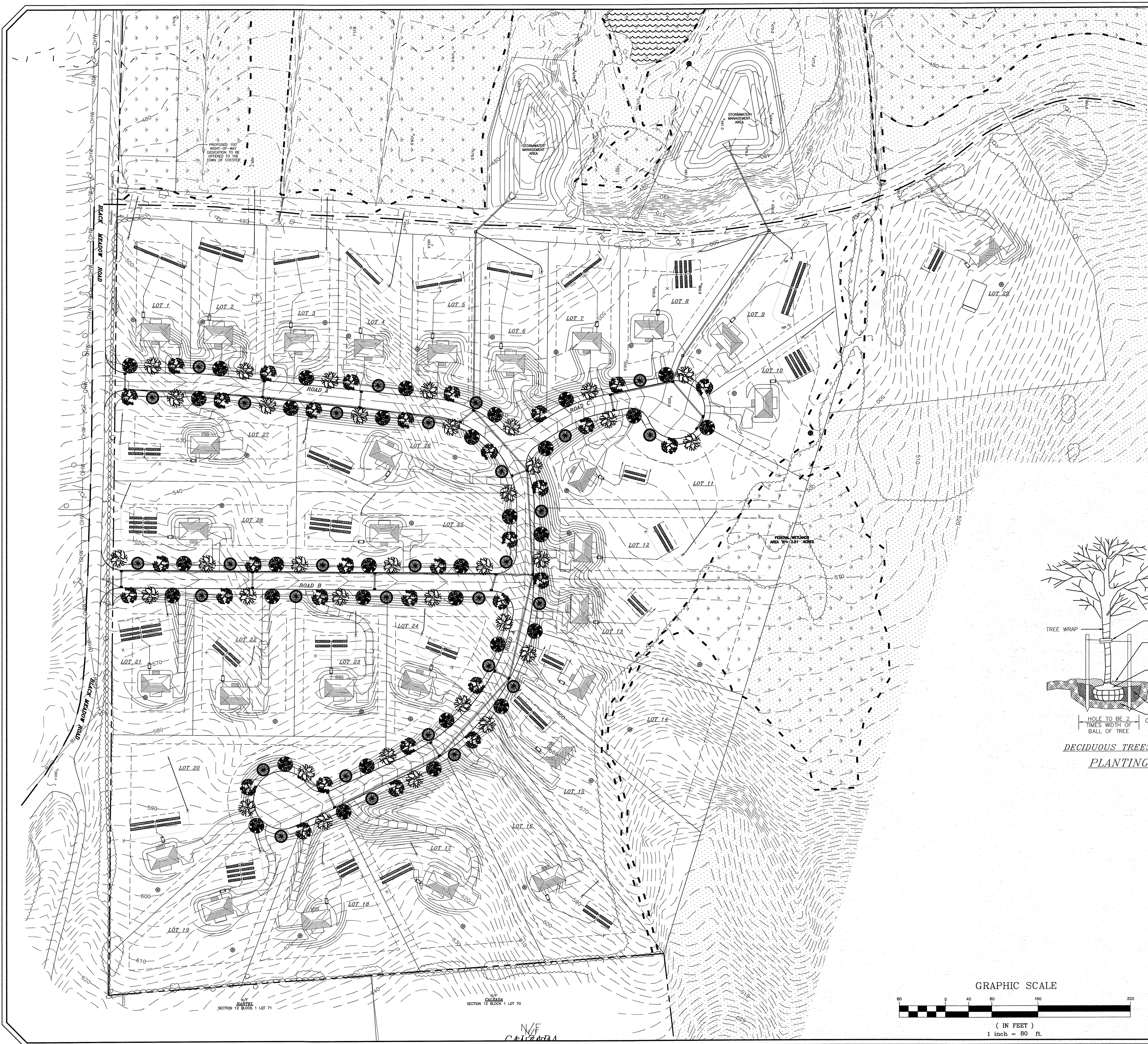
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JWP
6-16-14	ORIGINAL PREPARATION DATE	JWP
DATE	DESCRIPTION	INITIALS
REVISIONS		
MWP CHECK DATE:	00/00/00	INITIALED BY: --

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BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE
EROSION CONTROL DETAILS
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)
DRAWING TITLE
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7208, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.
O.C.H.D. SHEET NO. N/A OF 7
D.E.C. SHEET NO. N/A OF N/A
DRAWING NUMBER 11 OF 16
SCALE AS SHOWN
CAD REFERENCE WORKING CLUSTER
PROJECT NUMBER 141181



STREET TREE AND SCREENING PLANTS LIST					
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
	10	ACER RUBRUM	RED MAPLE	3" TO 3-1/2" C	B & B
	10	ACER SACCHARUM	SUGAR MAPLE	3" TO 3-1/2" C	B & B
	9	QUERUS PALUSTRIS	PIN OAK	2 1/2 TO 3" CAL.	B & B
	10	QUERUS RUBRA	NORTHERN RED OAK	3" TO 3-1/2" C	B & B

SHADE & SCREENING TREE PLANTING SPECIFICATIONS

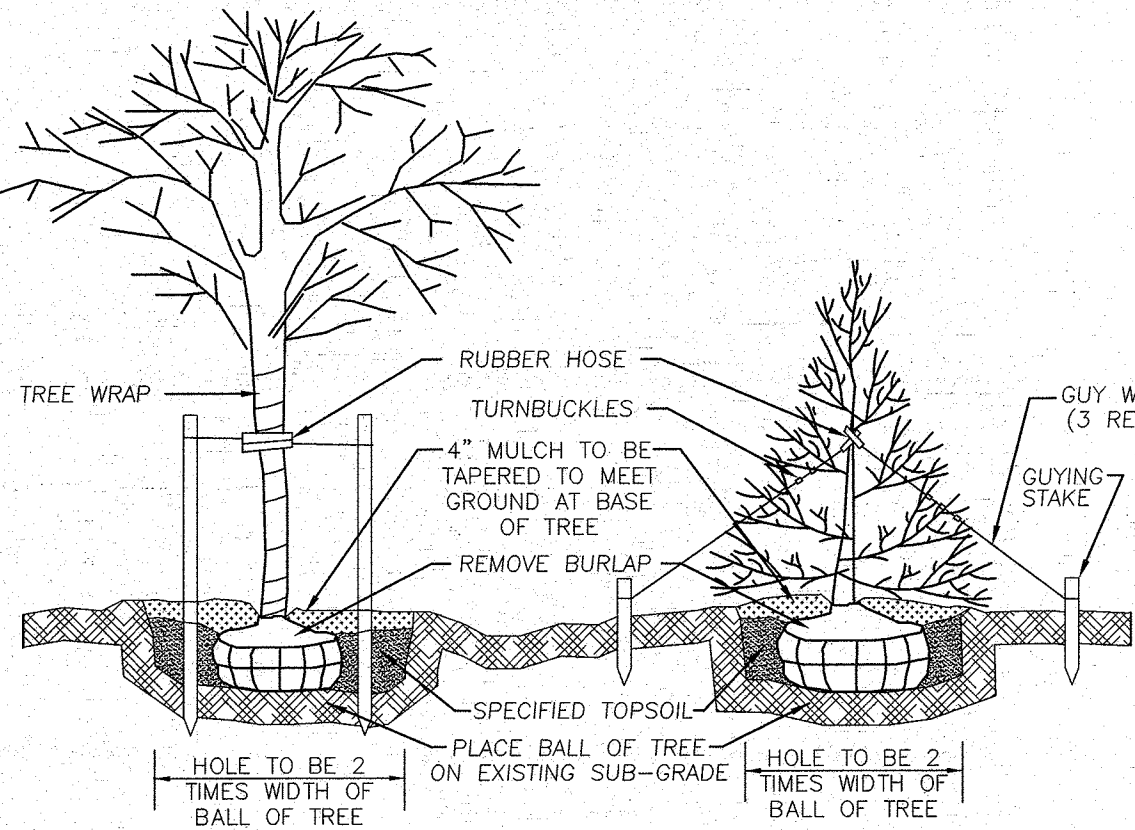
- TREES SHALL BE BALLED AND BURLAPPED, HARDY AND SUITABLE TO LOCAL SOIL AND CLIMATE, AND SHALL NOT BE LESS THAN TWO AND A HALF INCHES CALIPER MEASURED SIX INCHES ABOVE THE TOP OF THE BALL NOR LESS THAN 10 FEET HIGH. THEY MUST BE WELL-BRANCHED, THE BRANCHES TO START NOT LESS THAN SIX FEET FROM THE CROWN OF THE ROOT SYSTEM. TREES SHALL BE NURSERY GROWN, AND A NURSERY INSPECTION CERTIFICATE SHOULD BE AVAILABLE COVERING ALL TREES. ALL TREES MUST MEET THE STANDARDS OF THE AMERICAN STANDARD FOR NURSERY STOCK.
- SHADE TREES SHALL BE PLANTED ONE FOOT TO FIVE FEET OUTSIDE OF THE RIGHT-OF-WAY LINE, AND APPROXIMATELY 40 FEET APART. TREES SHOULD BE STAGGERED WHEN PLANTED ON OPPOSITE SIDES OF THE SAME STREET.
- IN GENERAL, EXCAVATIONS FOR PLANTING SHALL BE LARGE ENOUGH TO ACCOMMODATE THE NATURAL SPREAD OF THE ROOT SYSTEM AND AT LEAST TWO TIMES THE WIDTH OF THE BALL OF EARTH SUPPLIED WITH THE TREE. THE PIT SHALL BE ROCK FREE AND REFILLED WITH SEVEN PARTS TOPSOIL AND ONE PART HUMUS AND THE PARENT SOIL DISCARDED. HARDPAN SHALL BE LOOSEENED AN ADDITIONAL TWELVE INCHES FROM THE BOTTOM AND SIDE OF PIT. TREES SHALL BE ADEQUATELY FERTILIZED AND WATERED AT THE TIME OF PLANTING AND MULCHED WITH THREE INCHES OF APPROVED MULCH IMMEDIATELY AFTER PLANTING.
- TREES SHALL BE STAKED AND GUYED IMMEDIATELY AFTER PLANTING. STAKES SHALL BE OF CEDAR OR OAK, EIGHT FEET LONG, NO LESS THAN TWO INCHES IN DIAMETER AND DRIVEN INTO THE TREES ROOT SYSTEM. TREES SHOULD BE GUYED TO THE STAKE USING NO. 10 WIRE COVERED WITH RUBBER HOSE OR EQUAL. THE WIRE SHALL BE STAPLED TO THE STAKE IN SUCH A MANNER THAT IT WILL NOT SLIP OR COME INTO CONTACT WITH THE TREE TRUNK. THE TRUNK OF THE TREE MAY BE PROTECTED WITH TREE WRAPPING PAPER.
- REMOVAL OF DEBRIS IS REQUIRED. THE PROPERTY MUST BE LEFT IN A NEAT AND ORDERLY CONDITION IN ACCORDANCE WITH GOOD AND ACCEPTED PLANTING AND TREE SURGERY PRACTICES.
- ALL TREE VARIETIES, PLACEMENT, CONDITION AND QUALITY ARE SUBJECT TO THE APPROVAL OF THE TOWN PLANNING BOARD PRIOR TO AND AFTER PLANTING. POPLARS, BOX ELDERS, CATALPAS, HORSE CHESTNUTS, WILLOWS AND ELMS SHALL NOT BE PLANTED.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO PLANTING. CONTRACTOR SHALL FIELD ADJUST LOCATION OF SHADE TREES, AS NECESSARY, TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL FIELD ADJUSTMENTS MUST MEET THE REGULATIONS SET FORTH IN THE TOWN OF CHESTER SUBDIVISION REGULATIONS, SECTION 83-20B.
- EXISTING VEGETATION AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE TOPSOILED AND SEEDED UPON COMPLETION OF WORK. (SEE PERMANENT SEEDING MIXTURE TABLE ON SHEET 6 OF 9.)
- ALL PLANT MATERIAL ON THIS SHEET AND ALL SHEETS ASSOCIATED WITH THIS DRAWING SET MUST MEET THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE AMERICAN NURSERYMAN'S STANDARDS FOR NURSERY STOCK.
- STREET TREES ARE SHOWN ON THE PLAN. IF EXISTING TREES REMAIN WITHIN 20' OF THE PUBLIC OR PRIVATE ROAD, AND NO GRADING OCCURRED UNDER THE DRIP LINE OF THE CANOPY OF THE TREE, IT MAY BE COUNTED AS A STREET TREE AND A NEWLY PLANTED TREE MAY NOT BE NECESSARY. THE DETERMINATION FOR THE NEED FOR STREET TREES AFTER THE ROAD IS INSTALLED, SHALL BE THE DISCRETION OF THE TOWN OF CHESTER BUILDING DEPARTMENT OR THEIR CONSULTANT.

LANDSCAPE WARRANTY NOTE:

- ALL PLANTS SHALL BE WARRANTED FOR A PERIOD OF TWO YEARS. REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE MISSING, MORE THAN 25% DEAD, DO NOT DEVELOP FROM PLANTING STOCK, APPEAR UNHEALTHY OR UNSIGHTLY AND/OR HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES. ANY TREE THAT LOSES THE MAIN LEADER SHALL BE REPLACED.
- PLANT MATERIAL SHALL BE INSPECTED BY A REPRESENTATIVE (OR LANDSCAPE ARCHITECTURAL CONSULTANT) FROM THE TOWN OF CHESTER UPON COMPLETION OF WORK AND DURING EVERY GROWING SEASON FOR TWO YEARS. PLANTS THAT NEED REPLACEMENT SHALL BE NOTED ON AN INSPECTION REPORT AND MUST BE REPLACED WITHIN TWO MONTHS OF RECEIPT OF THE INSPECTION REPORT OR WITHIN TWO MONTHS FOLLOWING THE NEXT GROWING SEASON.

TEMPORARY MAINTENANCE EASEMENT NOTE:

- IN ORDER FOR THE TREES TO BE MAINTAINED OR REPLACED BY THE DEVELOPER, A TEN FOOT WIDE TEMPORARY MAINTENANCE EASEMENT SHALL RUN PARALLEL TO THE RIGHT-OF-WAY UNTIL RELEASE OF THE MAINTENANCE SECURITY FOR THE TREES.



DECIDUOUS TREES EVERGREEN TREES
PLANTING & GUYING DETAIL
N.T.S.

10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS
REVISIONS		
MAP CHECK DATE:	06/06/00	INITIALED BY: --

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LICENSE NO. 060023
MICHAEL F. CHODAN, P.L.S.
LICENSED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 060075
10-28-16
DATE

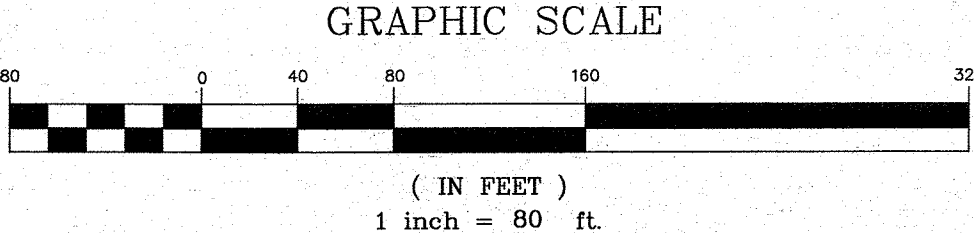
BARODA CLUSTER
SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

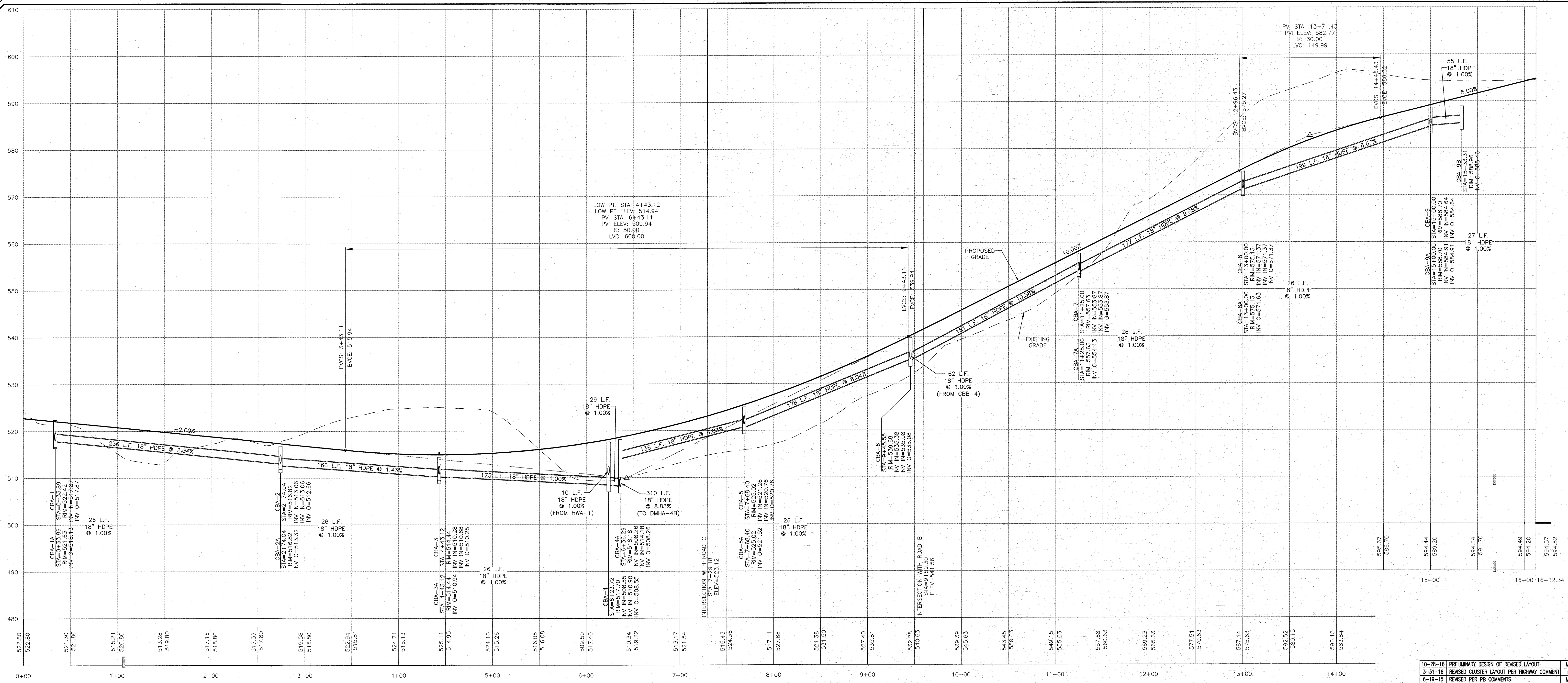
PROJECT TITLE

STREET TREE PLAN
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

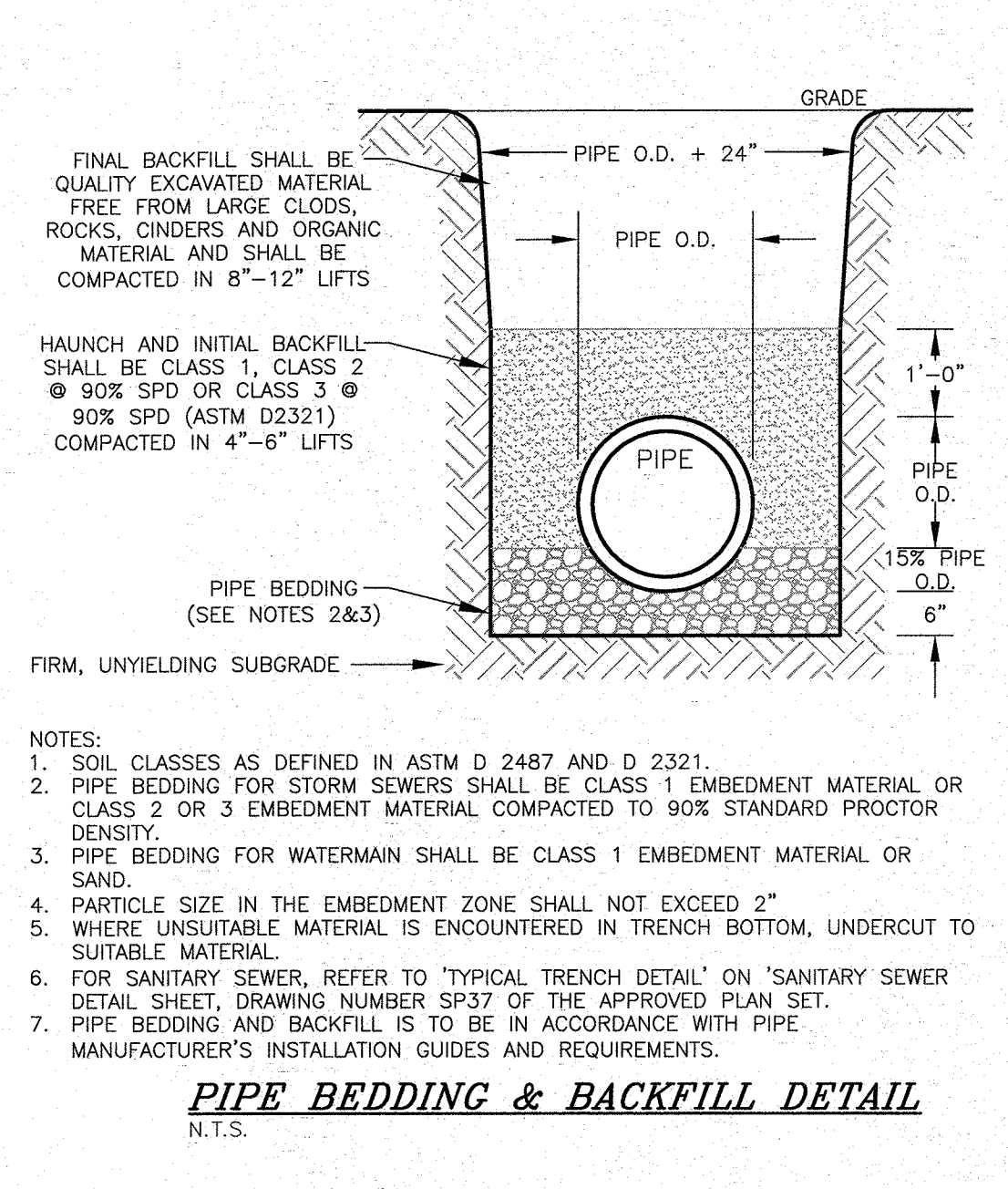
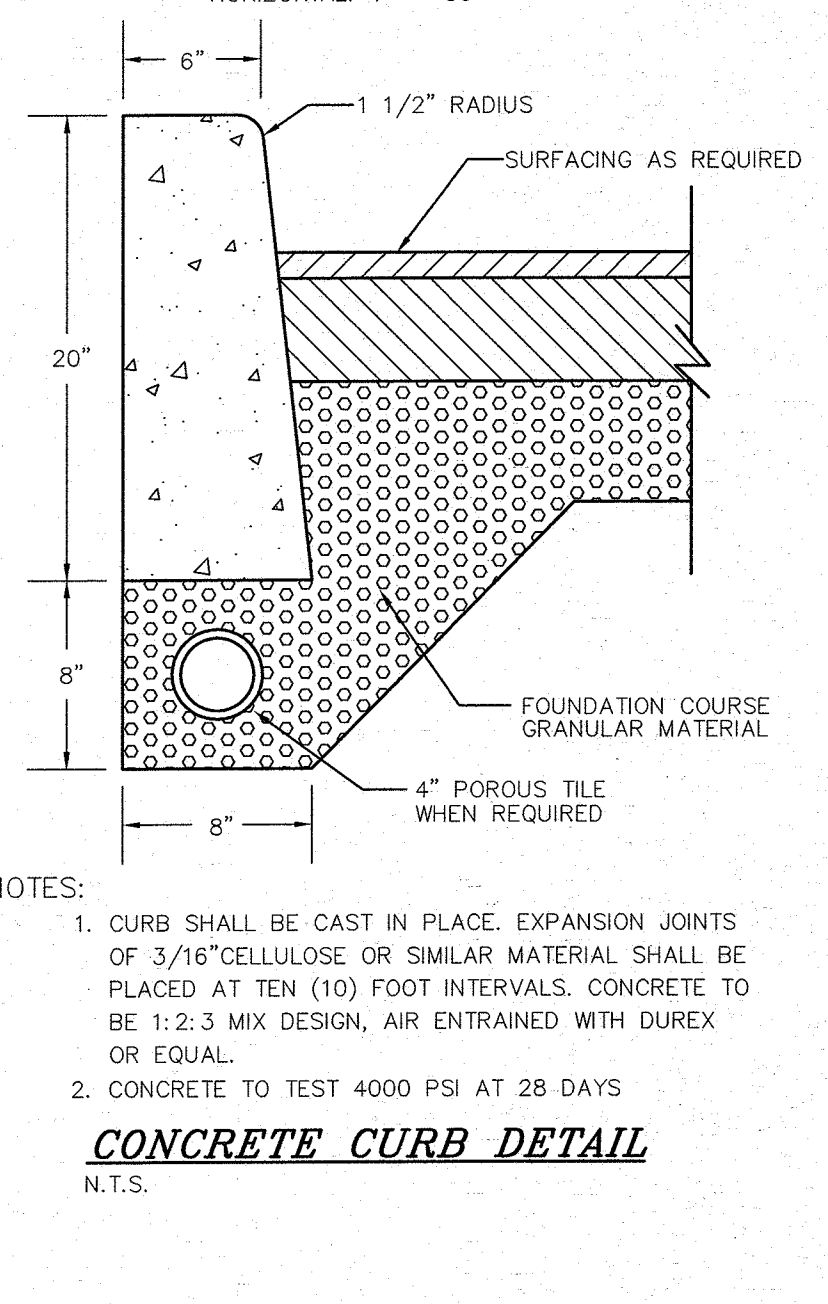
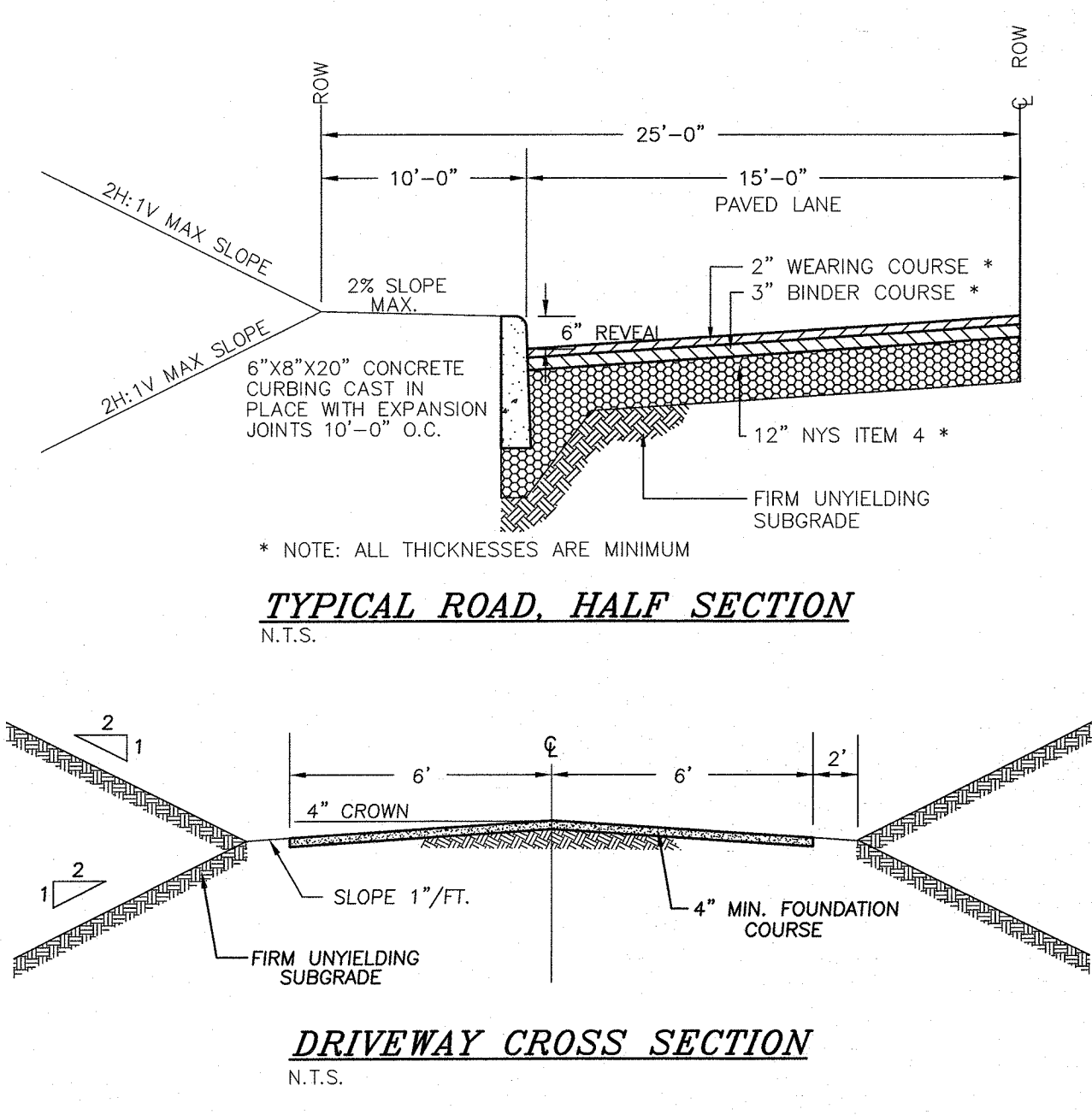
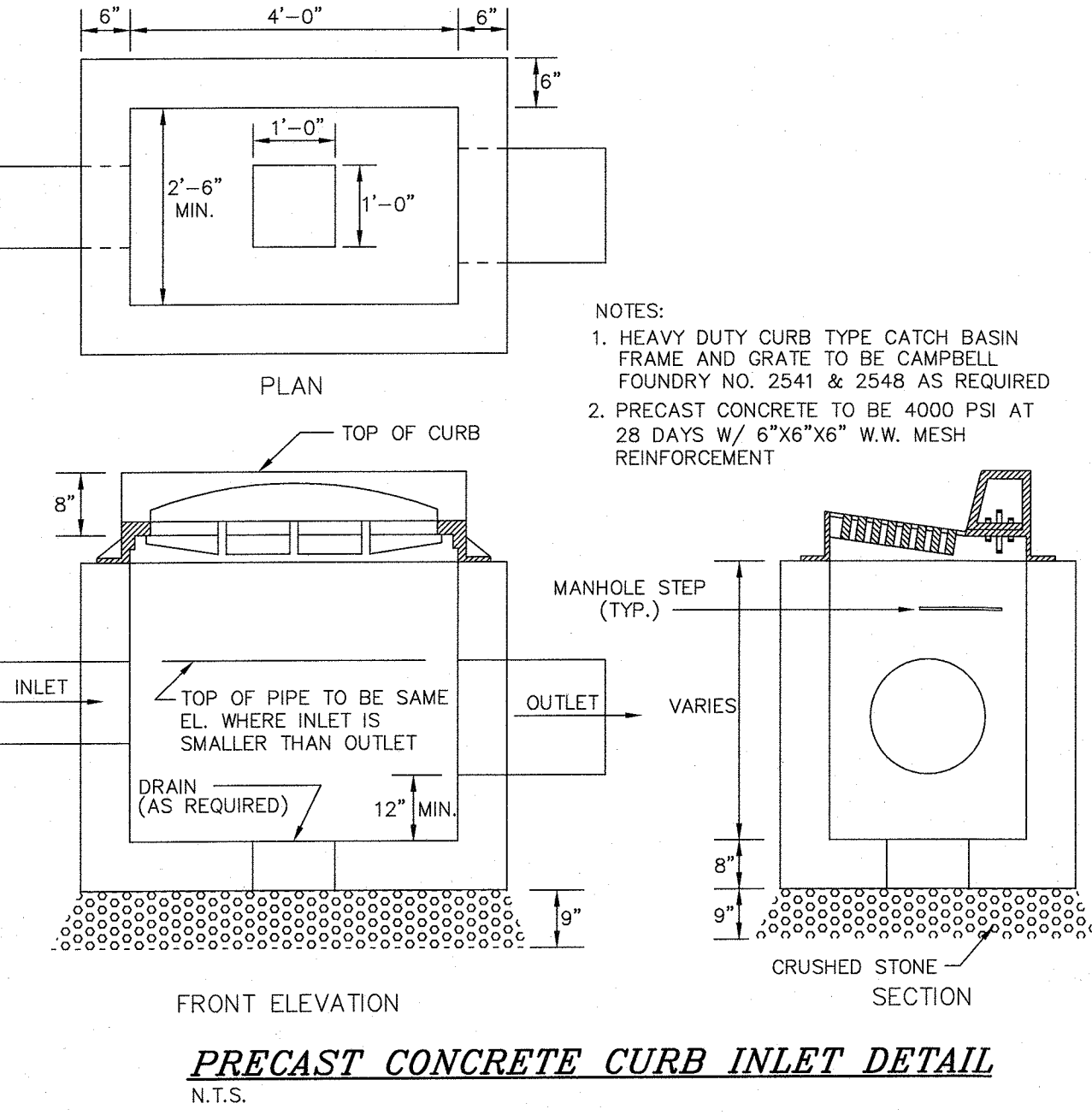
DRAWING TITLE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 12 OF 16
SCALE 1"=80'	CAD REFERENCE WORKING CLUSTER	PROJECT NUMBER 14118.01



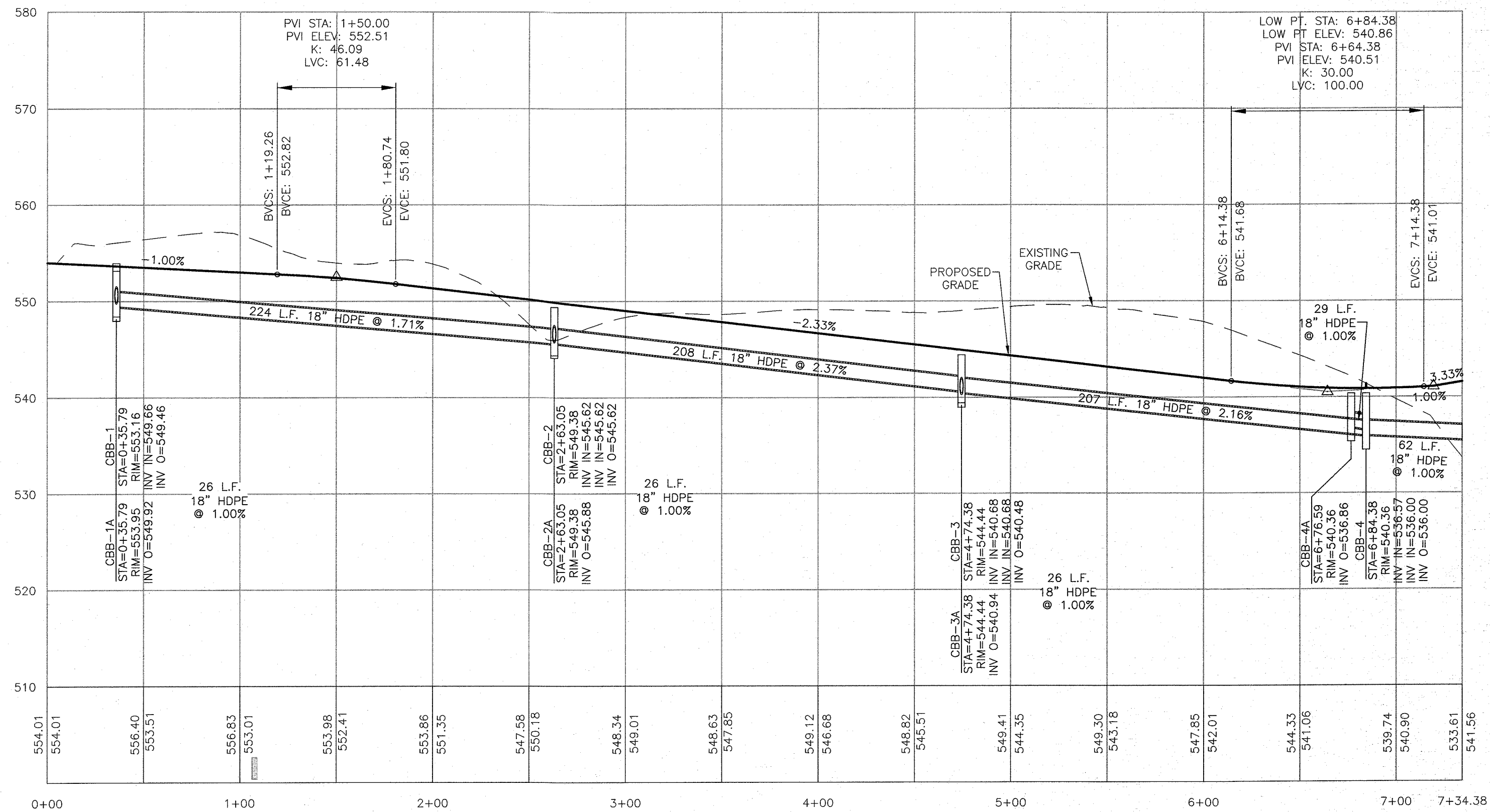


PROPOSED ROAD A PROFILE
PROFILE SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'



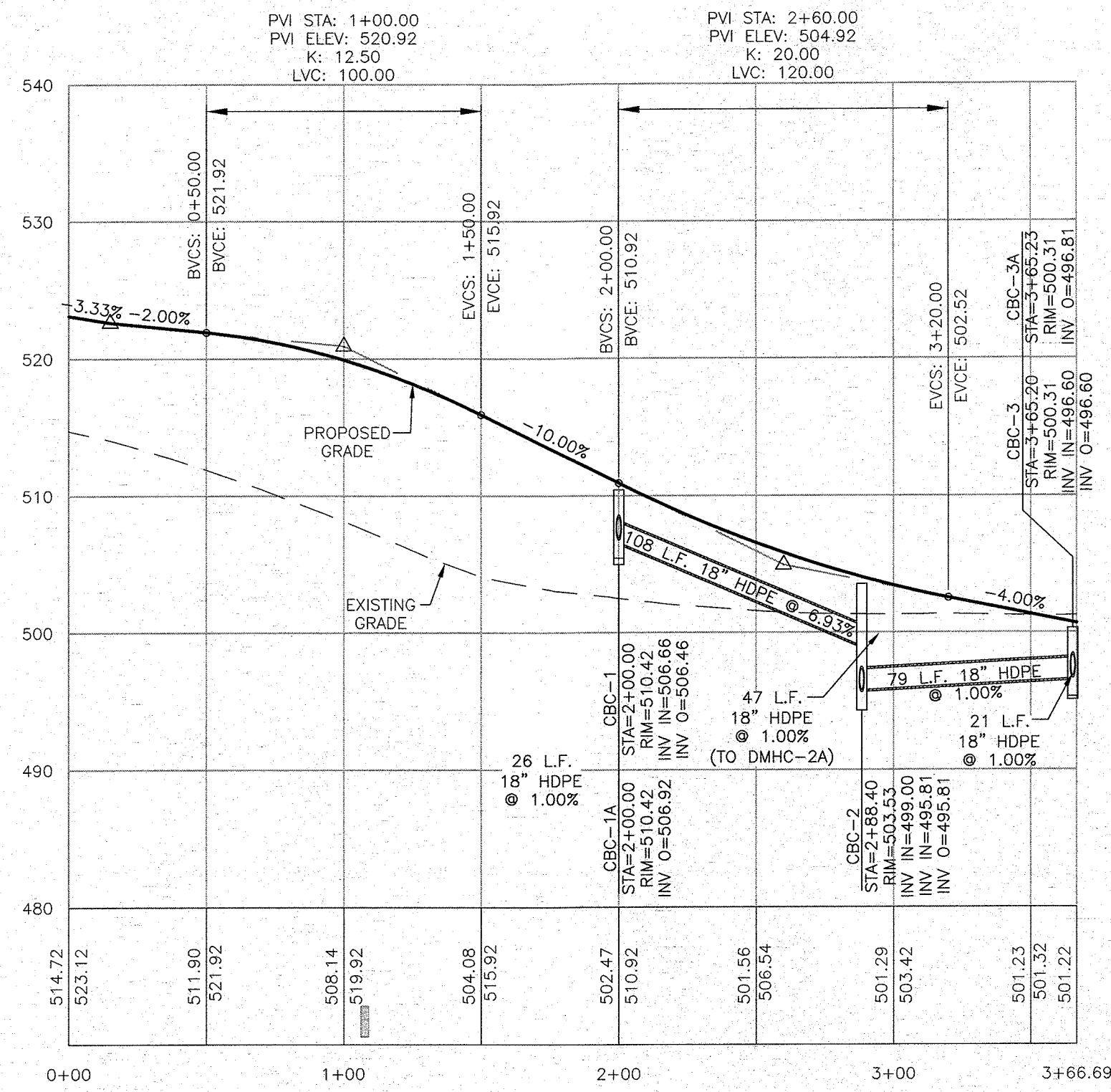
RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS
REVISIONS		
MAP CHECK DATE: 00/00/00 INITIALED BY: --		
PIETRZAK & PFAU ENGINEERING & SURVEYING, PLLC 282 GREENWICH AVENUE, SUITE A GOSHEN, NEW YORK 10924 (845) 294-1006 2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (845) 796-4646		
JOSEPH J. PIETRZAK, P.E., P.L.S., 12000-AP LICENSE NO. 060069 MICHAEL F. CHERGAN, P.L.S. LICENSE NO. 050323		
SIGNATURE DATE		
BARODA CLUSTER SUBDIVISION TOWN OF CHESTER COUNTY OF ORANGE, NEW YORK		
PROJECT TITLE		
PROFILE SHEET & SITE DETAILS (1) SECTION 12, BLOCK 1, LOT 31 (NOT FOR OCHD REVIEW OR APPROVAL)		
DRAWING TITLE		
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 2209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
N/A OF 7	N/A OF N/A	13 OF 16
SCALE	CAD REFERENCE	PROJECT NUMBER
AS SHOWN	WORKING CLUSTER	14118.01



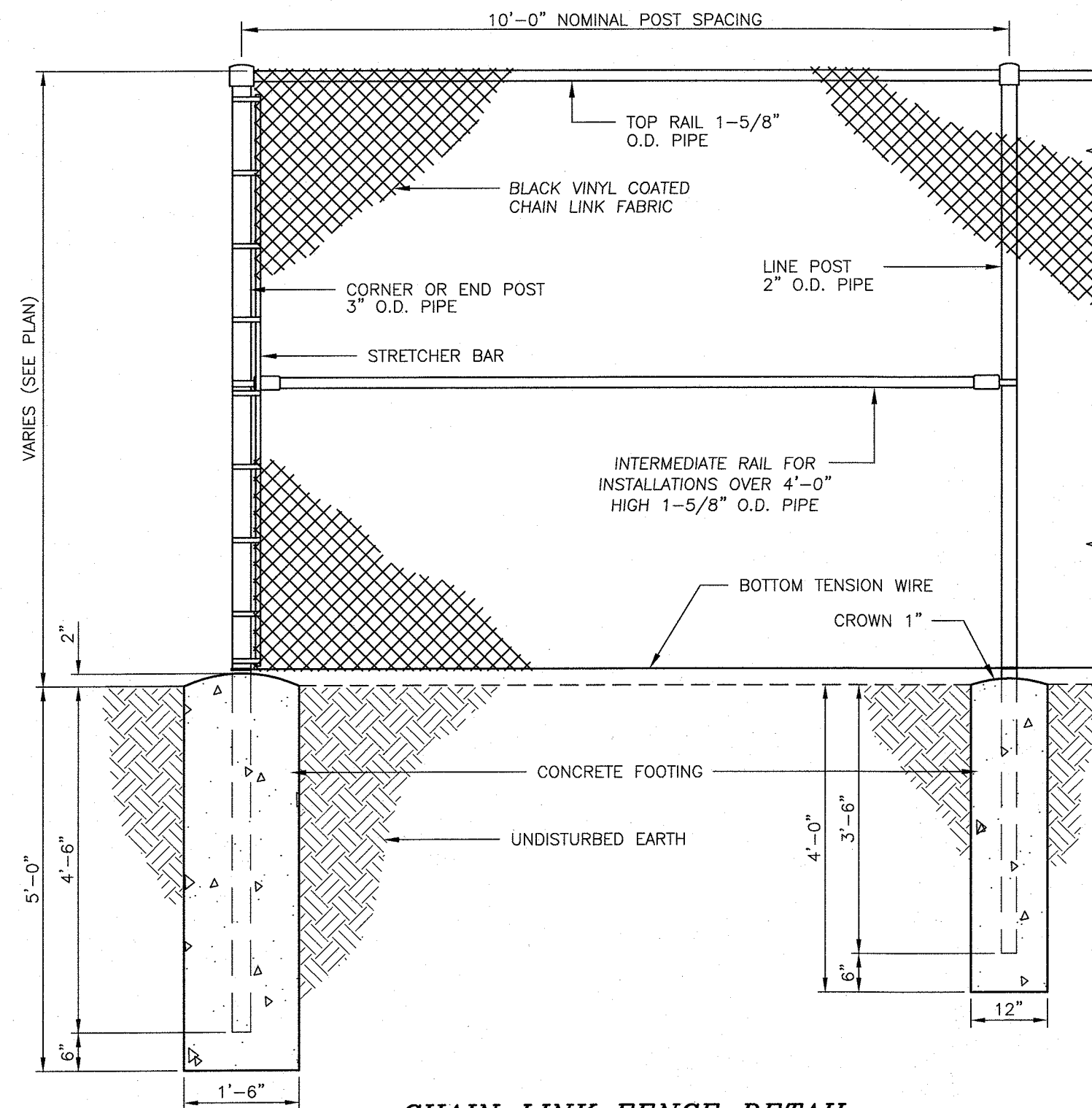
PROPOSED ROAD B PROFILE

PROFILE SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

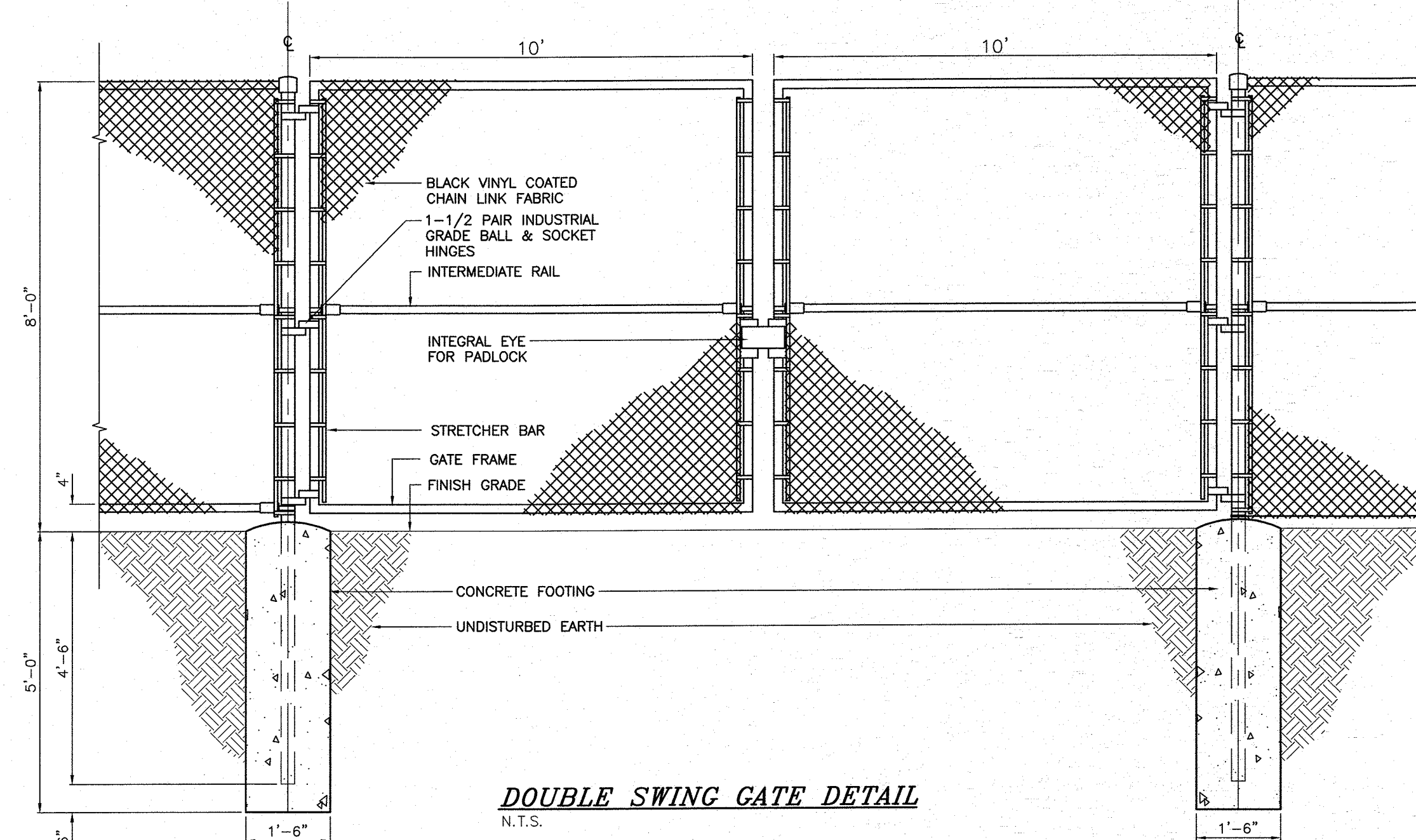


PROPOSED ROAD C PROFILE

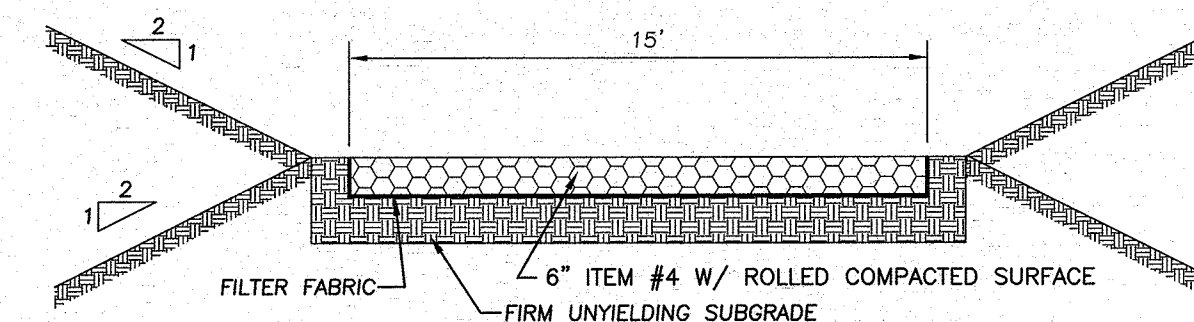
PROFILE SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'



CHAIN LINK FENCE DETAIL
N.T.S.



DOUBLE SWING GATE DETAIL
N.T.S.



NOTE:
1. STABILIZED ACCESS IS TO MAINTAIN A MINIMUM SLOPE OF 1 PERCENT AND A MAXIMUM SLOPE OF 15 PERCENT.
2. STABILIZED ACCESS DRIVE IS TO BE PAVED FOR A DISTANCE OF 30' FROM THE PROPOSED ROADWAY EDGE OF PAVEMENT.

STABILIZED DETENTION POND ACCESS DRIVE DETAIL
N.T.S.

10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	MWS
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 00/00/00 INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
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JOSEPH J. PFAU P.E.
LICENSE NO. 08856
VINCENT J. PIETRZAK P.E.
LICENSE NO. 12502AP
MICHAEL F. CHERGAN P.L.S.
LICENSE NO. 055023
10-28-16
SIGNATURE DATE

BARODA CLUSTER
SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE
PROFILE SHEET & SITE
DETAILS (2)
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)
DRAWING TITLE

O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 14 OF 16
SCALE AS SHOWN	CAD REFERENCE WORKING CLUSTER	PROJECT NUMBER 14118.01

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

SOIL TEST RESULTS & SEPTIC SYSTEM DESIGN

LOT #	DEEP TEST PIT #1 RESULTS	DEEP TEST PIT #2 RESULTS	PERC RATE	SEPTIC SYSTEM DESIGN	LOT #	DEEP TEST PIT #1 RESULTS	DEEP TEST PIT #2 RESULTS	PERC RATE	SEPTIC SYSTEM DESIGN
1	0"-10" TOPSOIL 10"-60" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL 60"-84" DARK BROWN SILTY LOAM W/ TRACE CLAY NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-48" LIGHT BROWN SILTY, SANDY LOAM W/ HARD CLAY POCKETS 48"-68" DARK BROWN SILTY LOAM MOTTLING @ 36" NO GROUNDWATER, NO BEDROCK	PT1: 7 MIN. DEPTH: 24" PT2: 5 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 79 L.F. TOTAL DESIGNED: 2 LATERALS @ 40', 80 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	20	0"-8" TOPSOIL 8"-50" LIGHT BROWN HARD PACKED HEAVILY MOTTLLED CLAY LOAM W/ GRAVEL MOTTLING @ 18" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-50" LIGHT BROWN HARD PACKED HEAVILY MOTTLLED CLAY LOAM W/ GRAVEL MOTTLING @ 22" NO GROUNDWATER, NO BEDROCK	PT1: 40 MIN. DEPTH: 12" PT2: 7 MIN. DEPTH: 12"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 4 LATERALS @ 40', 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
2	0"-8" TOPSOIL 8"-60" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL & SOME LARGE ROCKS 60"-78" DARK BROWN SILTY LOAM W/ TRACE CLAY MOTTLING @ 60" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-60" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 60"-80" DARK BROWN SILTY CLAY LOAM MOTTLING @ 36" NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 29 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 132 L.F. TOTAL DESIGNED: 4 LATERALS @ 36', 144 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	21	0"-6" TOPSOIL 6"-32" LIGHT BROWN CLAY LOAM 32"-60" DARK BROWN HEAVILY MOTTLLED SILTY, CLAY LOAM MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-52" LIGHT BROWN CLAY LOAM 52"-54" DENSE HARD CLAY LOAM MOTTLING @ 22" NO GROUNDWATER, NO BEDROCK	PT1: 28 MIN. DEPTH: 24" PT2: 47 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 176 L.F. TOTAL DESIGNED: 4 LATERALS @ 32', 192 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
3	0"-12" TOPSOIL 12"-62" LIGHT BROWN SILTY LOAM W/ TRACE CLAY 62"-66" DENSE HARD CLAY LOAM MOTTLING @ 42" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-60" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL 60"-60" DENSE HARD CLAY LOAM MOTTLING @ 48" NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	22	0"-10" TOPSOIL 10"-48" LIGHT BROWN HARD PACKED SILTY LOAM W/ GRAVEL MOTTLING @ 20" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-50" LIGHT BROWN SILTY CLAY LOAM W/ GRAVEL AND SOME LARGE ROCKS MOTTLING @ 24" NO GROUNDWATER, NO BEDROCK	PT1: 9 MIN. DEPTH: 12" PT2: 5 MIN. DEPTH: 12"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 24', 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
4	0"-10" TOPSOIL 10"-48" LIGHT BROWN SILTY SANDY LOAM W/ GRAVEL & SOME LARGE ROCKS 48"-70" DARK BROWN SILTY CLAY LOAM MOTTLING @ 40" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-48" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 48"-62" DARK BROWN SILTY CLAY LOAM MOTTLING @ 54" NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	23	0"-8" TOPSOIL 8"-30" LIGHT BROWN SILTY LOAM WITH GRAVEL 30"-54" DARK BROWN SILTY CLAY LOAM W/ HARD CLAY POCKETS MOTTLING @ 28" NO GROUNDWATER, NO BEDROCK	0"-10" TOPSOIL 10"-52" LIGHT BROWN SILTY CLAY LOAM W/ SOME MEDIUM SIZED ROCKS AND HARD CLAY POCKETS AT BOTTOM MOTTLING @ 28" NO GROUNDWATER, NO BEDROCK	PT1: 6 MIN. DEPTH: 12" PT2: 8 MIN. DEPTH: 12"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 24', 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
5	0"-10" TOPSOIL 10"-40" LIGHT BROWN SILTY, SANDY LOAM 40"-72" DARK BROWN SILTY, CLAY LOAM MOTTLING @ 60" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-30" LIGHT BROWN SILTY, SANDY LOAM 30"-72" DARK BROWN SANDY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	24	0"-8" TOPSOIL 8"-58" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS, GRAVEL, & SOME LARGE ROCKS MOTTLING @ 38" NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-72" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS, GRAVEL, & SOME LARGE ROCKS MOTTLING @ 30" NO GROUNDWATER, NO BEDROCK	PT1: 8 MIN. DEPTH: 24" PT2: 8 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 24', 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
6	0"-8" TOPSOIL 8"-40" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 40"-52" DENSE HARD CLAY LOAM MOTTLING @ 38" NO GROUNDWATER, NO BEDROCK	0"-10" TOPSOIL 10"-54" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 54"-72" DARK BROWN SANDY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 4 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	25	0"-8" TOPSOIL 8"-52" LIGHT BROWN SILTY CLAY LOAM W/ GRAVEL AND SOME LARGE ROCKS MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-54" LIGHT BROWN SILTY CLAY LOAM W/ GRAVEL AND HARD CLAY POCKETS AT BOTTOM MOTTLING @ 28" NO GROUNDWATER, NO BEDROCK	PT1: 50 MIN. DEPTH: 24" PT2: 23 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 176 L.F. TOTAL DESIGNED: 6 LATERALS @ 32', 192 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
7	0"-8" TOPSOIL 8"-40" LIGHT BROWN SILTY LOAM W/ TRACE CLAY 44"-74" DARK BROWN FINE SAND NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-44" LIGHT BROWN SILTY LOAM W/ TRACE CLAY 44"-68" DARK BROWN FINE SAND NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	26	0"-8" TOPSOIL 8"-68" LIGHT BROWN SILTY, CLAY LOAM MOTTLING @ 36" NO GROUNDWATER, NO BEDROCK	0"-10" TOPSOIL 10"-48" LIGHT BROWN SILTY LOAM W/ GRAVEL 48"-70" DARK BROWN SILTY, CLAY LOAM MOTTLING @ 40" NO GROUNDWATER, NO BEDROCK	PT1: 24 MIN. DEPTH: 24" PT2: 20 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 132 L.F. TOTAL DESIGNED: 4 LATERALS @ 36', 144 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
8	0"-6" TOPSOIL 6"-60" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 60"-74" DARK BROWN FINE SAND MOTTLING @ 20" NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-72" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	PT1: 31 MIN. DEPTH: 24" PT2: 40 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 8 LATERALS @ 20', 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	27	0"-8" TOPSOIL 8"-48" LIGHT BROWN CLAY LOAM 48"-68" DARK BROWN SILTY LOAM W/ GRAVEL MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-38" LIGHT BROWN SILTY LOAM 38"-76" DARK BROWN SILTY, SANDY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 9 MIN. DEPTH: 24" PT2: 4 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 36', 144 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
9	0"-8" TOPSOIL 8"-60" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-54" LIGHT BROWN SILTY LOAM W/ GRAVEL & HARD CLAY POCKETS 54"-62" CLAY MOTTLING @ 22" NO GROUNDWATER, NO BEDROCK	PT1: 37 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 4 LATERALS @ 44', 176 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	28	0"-8" TOPSOIL 8"-32" LIGHT BROWN CLAY LOAM 32"-52" DARK BROWN HEAVILY MOTTLLED SILTY, CLAY LOAM MOTTLING @ 24" NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-36" LIGHT BROWN CLAY LOAM 36"-60" DARK BROWN HEAVILY MOTTLLED SILTY, CLAY LOAM MOTTLING @ 30" NO GROUNDWATER, NO BEDROCK	PT1: 26 MIN. DEPTH: 24" PT2: 32 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 159 L.F. TOTAL DESIGNED: 8 LATERALS @ 20', 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
10	0"-10" TOPSOIL 10"-48" LIGHT BROWN SILTY LOAM 48"-82" DARK BROWN FINE SAND NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-30" LIGHT BROWN HARD PACKED SILTY LOAM 30"-78" DARK BROWN FINE SAND MOTTLING @ 20" NO GROUNDWATER, NO BEDROCK	PT1: 45 MIN. DEPTH: 24" PT2: 35 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 4 LATERALS @ 40', 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	29	IP1 0"-10" TOPSOIL 10"-38" LIGHT BROWN SILTY, SAND LOAM 36"-56" DARK FINE SAND 56"-64" SANDY GRAVEL (BANK RUN) NO MOTTLING NO GROUNDWATER, NO BEDROCK	IP2 0"-8" TOPSOIL 8"-30" LIGHT BROWN SILTY, SANDY LOAM 30" HARD SHALE NO MOTTLING NO GROUNDWATER	PT1: 2 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
11	0"-10" TOPSOIL 10"-80" LIGHT BROWN SILTY, SANDY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-88" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 4 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS		IP3 0"-10" TOPSOIL 10" HARD SHALE NO MOTTLING NO GROUNDWATER	IP4 0"-12" TOPSOIL 12"-68" LIGHT BROWN SILTY, SANDY LOAM NO MOTTLING NO GROUNDWATER		
12	0"-12" TOPSOIL 12"-40" LIGHT BROWN HARD PACKED SILTY LOAM W/ GRAVEL 40"-78" DARK BROWN FINE SAND MOTTLING @ 24" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-40" LIGHT BROWN SILTY LOAM W/ GRAVEL 40"-72" LIGHT BROWN SILTY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 8 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 2 LATERALS @ 48', 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS		IP5 0"-8" TOPSOIL 8"-30" LIGHT BROWN SILTY LOAM 30"-56" DARK BROWN SILTY, CLAY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK			
13	0"-8" TOPSOIL 8"-48" LIGHT BROWN SILTY, SANDY LOAM W/ TRACE GRAVEL & SOME LARGE ROCKS 48"-76" DARK BROWN SILTY, SANDY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-12" TOPSOIL 12"-64" LIGHT BROWN SANDY, CLAY LOAM W/ GRAVEL & SOME LARGE ROCKS NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 4 MIN. DEPTH: 24" PT2: 5 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
14	0"-6" TOPSOIL 6"-66" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL & SOME LARGE ROCKS NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-50" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 50" HIT BOULDER NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 4 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
15	0"-12" TOPSOIL 12"-72" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-10" TOPSOIL 10"-62" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL AND SOME LARGE ROCKS NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 15 MIN. DEPTH: 24" PT2: 18 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 115 L.F. TOTAL DESIGNED: 4 LATERALS @ 32', 128 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
16	0"-8" TOPSOIL 8"-36" LIGHT BROWN SILTY LOAM W/ GRAVEL 36"-64" DARK BROWN CLAY LOAM MOTTLING @ 42" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-40" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL & SOME LARGE ROCKS 40"-60" DARK BROWN CLAY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 9 MIN. DEPTH: 24" PT2: 8 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 24', 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
17	0"-10" TOPSOIL 10"-62" LIGHT BROWN SILTY LOAM W/ GRAVEL & HARD CLAY POCKETS NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-32" LIGHT BROWN SILTY LOAM W/ GRAVEL 32"-68" DARK BROWN CLAY LOAM MOTTLING @ 34" NO GROUNDWATER, NO BEDROCK	PT1: 15 MIN. DEPTH: 24" PT2: 9 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 99 L.F. TOTAL DESIGNED: 2 LATERALS @ 56', 112 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
18	0"-8" TOPSOIL 8"-52" LIGHT BROWN SILTY CLAY LOAM W/ GRAVEL AND SOME LARGE ROCKS NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-50" LIGHT BROWN SILTY, CLAY LOAM W/ GRAVEL AND SOME LARGE ROCKS MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	PT1: 8 MIN. DEPTH: 12" PT2: 9 MIN. DEPTH: 12"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 3 LATERALS @ 24', 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
19	0"-6" TOPSOIL 6"-72" LIGHT BROWN HARD PACKED CLAY W/ SOME LARGE ROCKS MOTTLING @ 30" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-72" LIGHT BROWN HARD PACKED CLAY W/ GRAVEL & SOME LARGE ROCKS MOTTLING @ 28" NO GROUNDWATER, NO BEDROCK	PT1: 42 MIN. DEPTH: 24" PT2: 36 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 8 LATERALS @ 20', 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					

SOIL TESTING AND SEPTIC SYSTEM DESIGN NOTES:

- PERCOLATION TESTS WERE PERFORMED BY PIETRZAK & PFAU, PLLC ON 6/26/15, 6/30/15, 7/2/15, 7/7/15, 7/11/16, 7/12/16.
- PERCOLATION TESTS WERE PERFORMED AT A DEPTH OF 24" UNLESS NOTED OTHERWISE.
- DEEP TEST PITS WERE PERFORMED BY PIETRZAK & PFAU, PLLC ON 8/14/15, 7/21/16.
- SEPTIC SYSTEM DESIGN BASED ON 110 GALLONS PER BEDROOM PER DAY.
- SEPTIC SYSTEM DESIGN FOR 4 BEDROOM MAXIMUM DWELLING UNLESS NOTED OTHERWISE.
- ALL SEPTIC SYSTEM DESIGNS INCLUDE 35 GALLONS PER DAY OF BACKWASH FOR THE OPTIONAL WATER SOFTENER, MAKING A TOTAL DISCHARGE OF 475 GALLONS PER DAY.
- SURFACE WATER DIVERSION SWALES ARE REQUIRED ON ALL LOTS.
- SEPTIC SYSTEM DESIGNS ARE BASED ON THE SLOWEST PERCOLATION RATE FOUND WITHIN THE AREA OF THE SYSTEM

ORANGE COUNTY DEPARTMENT OF HEALTH REALTY SUBDIVISION NOTES:

- NO LOT IS TO BE FURTHER SUBDIVIDED WITHOUT ORANGE COUNTY DEPARTMENT OF HEALTH REVIEW AND APPROVAL.
- THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED.
- ALL WELLS AND SEPTIC SYSTEMS WITHIN 300' OF THIS PROJECT HAVE BEEN LOCATED AND ARE SHOWN ON THE PLANS.
- TRENCHES SHALL NOT BE INSTALLED IN WET SOIL. THE SIDES AND BOTTOM OF TRENCHES MUST BE RAKED, IMMEDIATELY PRIOR TO PLACING SAND. THE ENDS OF THE LATERALS MUST BE CAPPED.
- THERE SHALL BE NO RECORDING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.
- HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNIQUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
- NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD.
- THESE SYSTEMS WERE NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS (UNLESS SPECIFIED IN THE DESIGN CHART). AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOUNT FOR THEM AND REAPPROVED BY THE ORANGE COUNTY HEALTH DEPARTMENT.
- THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING SEPTIC GASSES TO DISCHARGE THROUGH THE STACK VENT.
- THE PURCHASER OF EACH LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES, INCLUDING NYSDEC WELL COMPLETION REPORT. THE PURCHASER SHALL ALSO BE ADVISED OF ANY ROUTINE OR SPECIAL MAINTENANCE PROCEDURES THAT MAY BE NECESSARY (REFER TO CHAPTER 12 OF THE NYSDEC DESIGN HANDBOOK FOR RECOMMENDED ROUTINE OPERATION AND MAINTENANCE ITEMS).
- SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.
- PUMP STATIONS/DOSING CHAMBERS SHOULD BE INSPECTED PERIODICALLY BY A PROPERLY TRAINED PERSON FOR PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING AND ANY PHYSICAL DAMAGE.
- DISTRIBUTION BOXES/DROP BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.
- INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED FOR HOUSEHOLD DOMESTIC PURPOSES WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWER SYSTEM IS REQUIRED WITHIN ONE YEAR OF AVAILABILITY.
- ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN 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 REQUIRED TO OBTAIN A TIME EXTENSION.
- THE APPROVED PLANS MUST BE FILED WITH THE ORANGE COUNTY CLERK'S OFFICE PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 90 DAYS OF THE LAST APPROVAL OF FINAL PLANS.
- A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NYS EDUCATION DEPARTMENT) 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.
- SEPTIC SYSTEMS TO CONFORM TO THE MINIMUM REQUIREMENTS OF THE N.Y.S. HEALTH DEPARTMENT STANDARDS/CODES FOR INDIVIDUAL DISPOSAL SYSTEMS, APPENDIX 75-A, AND THE AUTHORITY HAVING JURISDICTION.
- LAUNDRY WASTE IS TO BE DISCHARGED INTO THE SEPTIC SYSTEM.
- HOUSE SEWER AND SEWER RUNS SHALL NOT EXCEED 75' BETWEEN POINTS OF POSSIBLE CLEANOUT. AT LEAST ONE CLEANOUT IS TO BE PROVIDED. BENDS ARE TO BE AVOIDED BUT WHERE REQUIRED AN ADDITIONAL CLEANOUT SHALL BE INSTALLED.
- THE MAXIMUM LENGTH OF ABSORPTION LINES USED IN CONJUNCTION WITH GRAVITY DISTRIBUTION SHALL BE 60 FEET.
- FOOTING DRAINS ARE NOT TO DISCHARGE INTO THE SEPTIC SYSTEM. FOOTING DRAINS ARE TO RUN TO DAYLIGHT WITH RODENT SCREEN.

GENERAL NOTES - WATER SYSTEMS:

- WELL CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE N.Y.S. HEALTH DEPARTMENT STANDARDS.
- TREATMENT FOR HARDNESS SHOULD BE CONSIDERED ONLY IF EXCESSIVE HARDNESS IS FOUND (GREATER THAN 150 MG/L) IN EACH INDIVIDUAL WELL.
- SEPTIC FIELDS AND WELLS ARE NOT TO BE RELOCATED.
- FOOTING DRAINS WITHIN 25 FEET OF A WELL MUST BE WATERTIGHT.
- WELLS TO BE INSTALLED 100 FEET FROM ANY SEPTIC SYSTEM, AND 200 FEET FROM SEPTIC SYSTEMS WHICH ARE UPHILL FROM THE WELL.
- WELL CASING IS TO BE INSTALLED 10 FEET INTO IMPERVIOUS BEDROCK.
- A NEW YORK STATE LICENSED 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 JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS. A COPY OF THE NYSDEC WELL COMPLETION REPORT MUST ALSO BE PROVIDED.

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

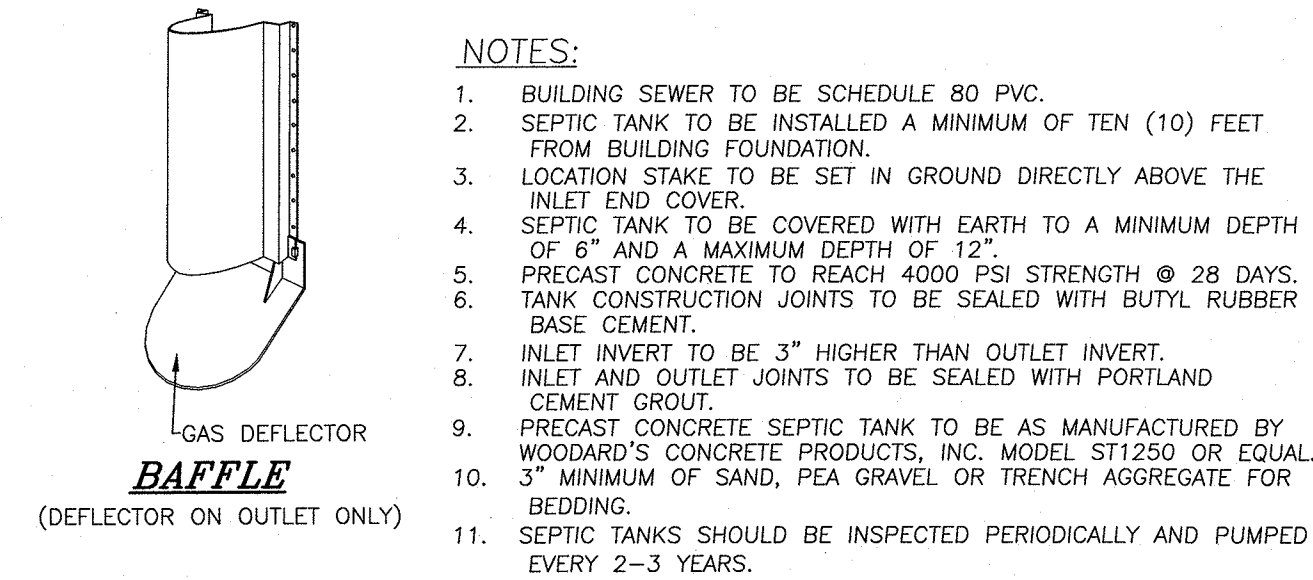
RESERVED FOR HEALTH DEPARTMENT APPROVAL

10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

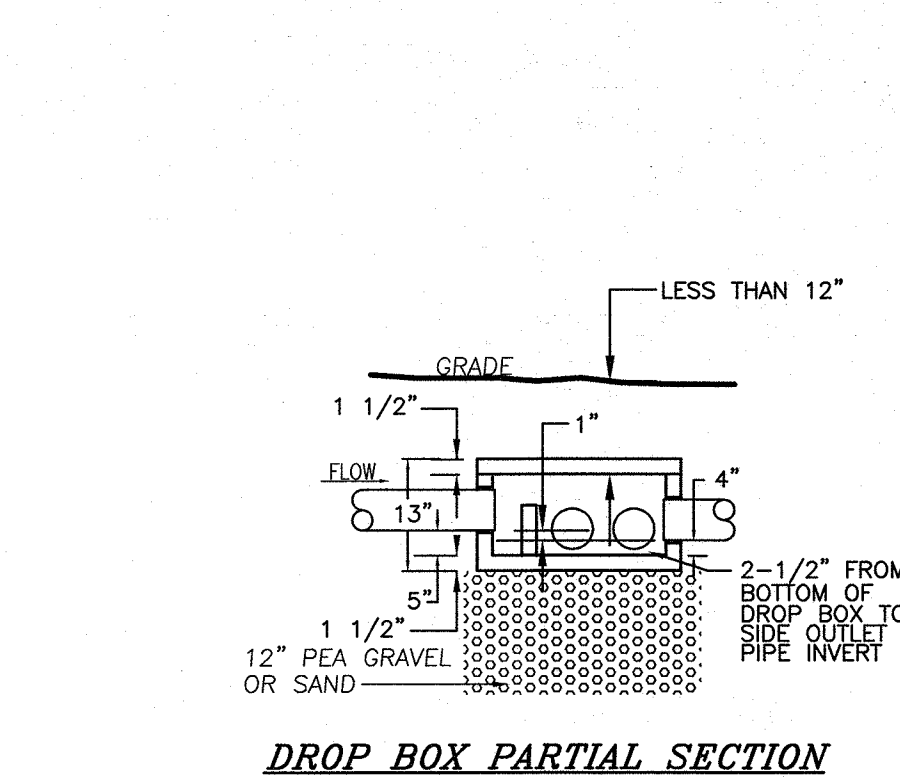
MAP CHECK DATE: 00/00/00 INITIALED BY: --

PIETRZAK & PFAU ENGINEERING & SURVEYING, PLLC 282 CROSWICK AVENUE, SUITE A GOSHEN, NEW YORK 10824 (949) 294-0608		2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (949) 796-8646
JOSEPH J. PFAU P.E. LICENSE NO. 050523	MICHAEL F. CROGAN P.E. LICENSE NO. 050523	
BARODA CLUSTER SUBDIVISION TOWN OF CHESTER COUNTY OF ORANGE, NEW YORK		
PROJECT TITLE SANITARY & WATER SUPPLY DETAILS (1) SECTION 12, BLOCK 1, LOT 91		
DRAWING TITLE UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7208, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO. 6 OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 15 OF 16
SCALE AS SHOWN	CAD REFERENCE WORKING CLUSTER	PROJECT NUMBER 14118.01

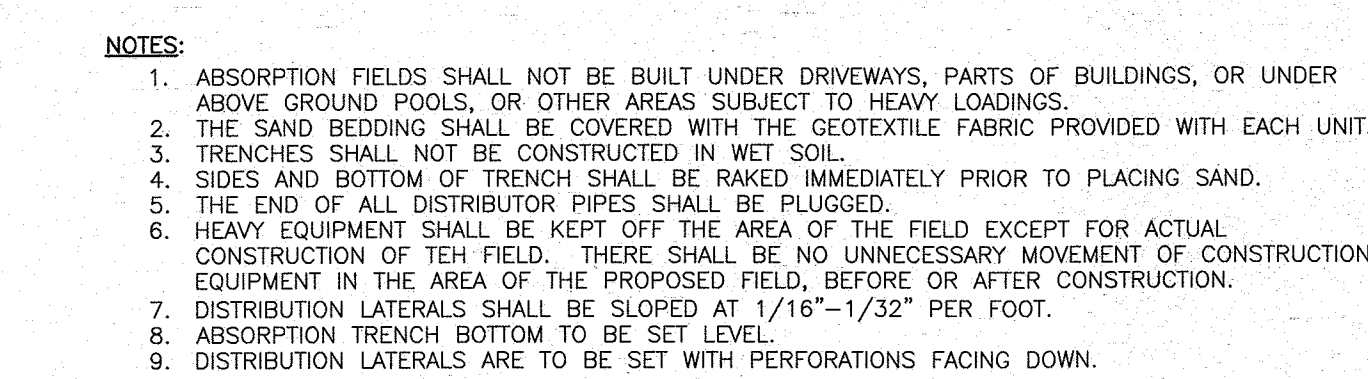
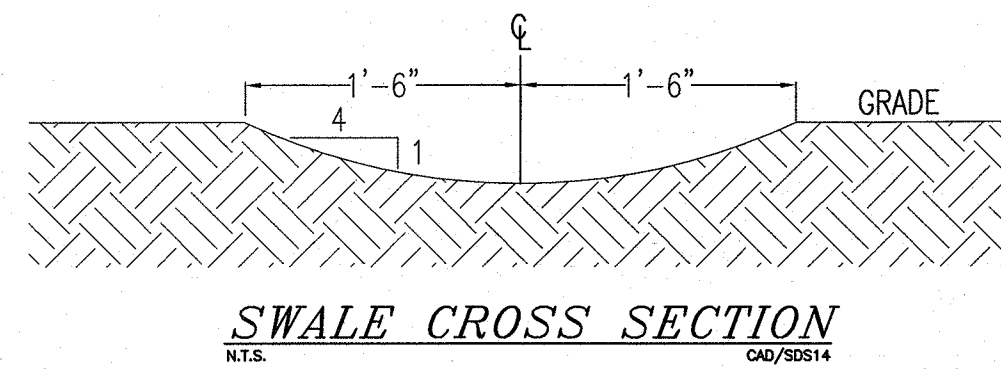
THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 6 OF 7.



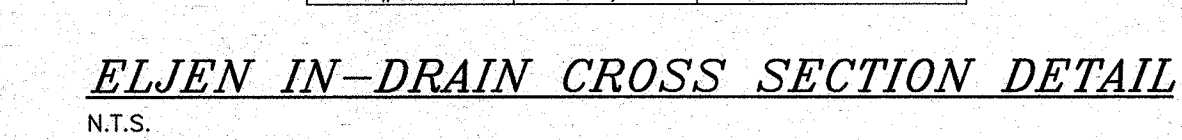
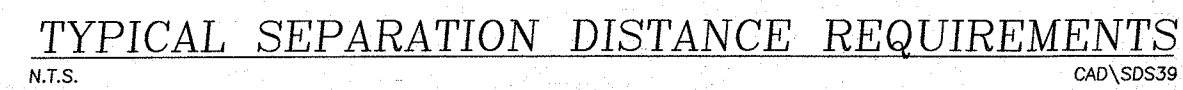
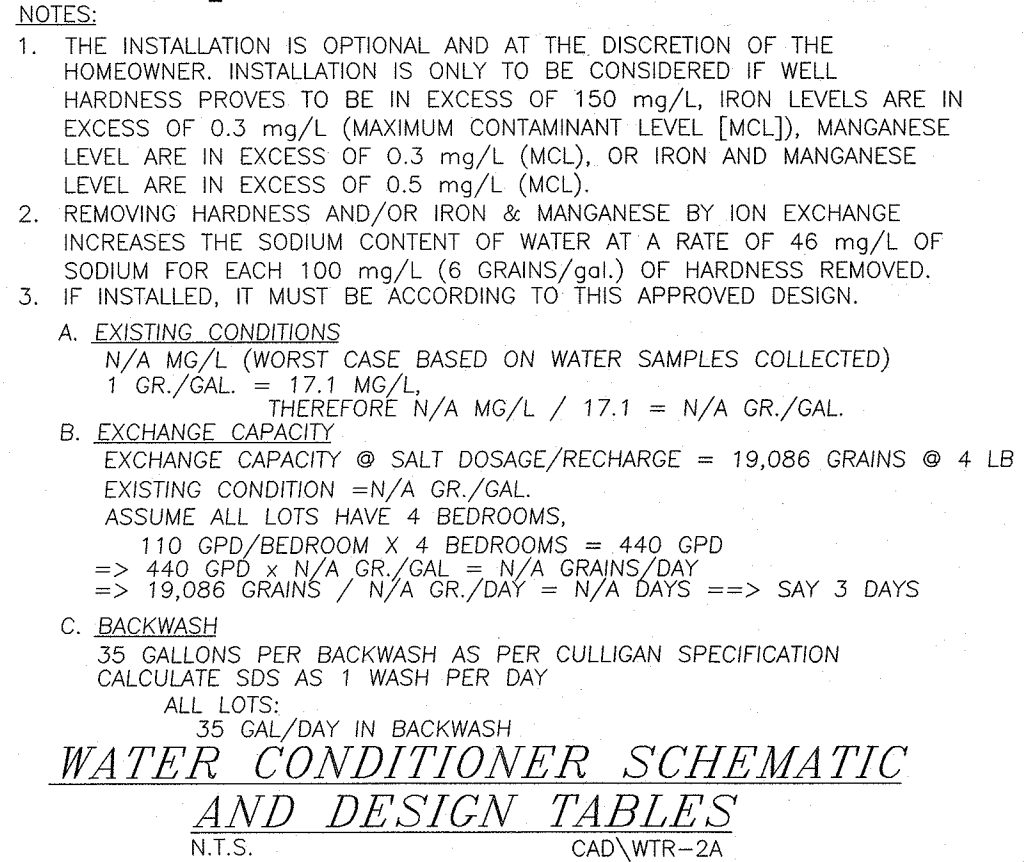
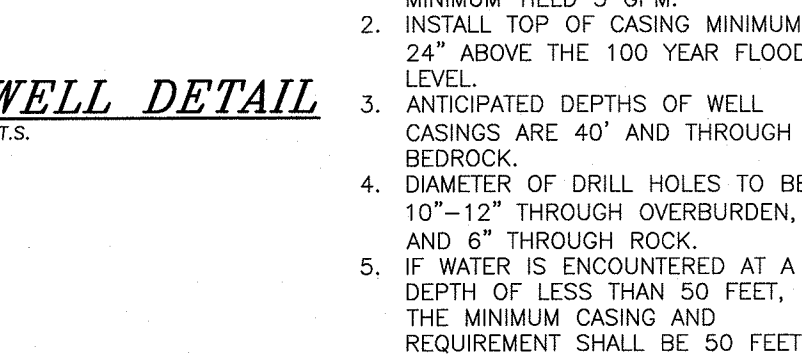
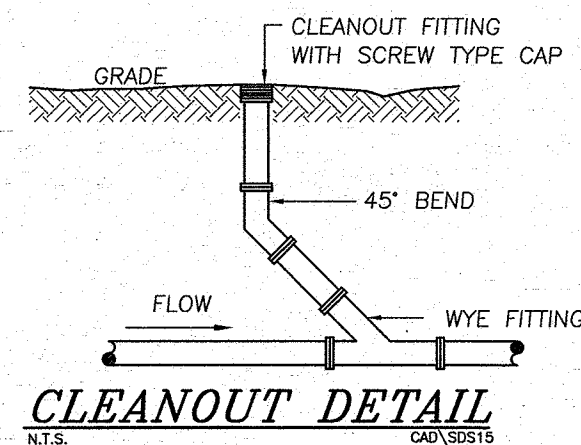
1,250 GALLON SEPTIC TANK DETAIL
N.T.S.



DROP BOX PARTIAL SECTION



ELJEN IN-DRAIN SYSTEM
DROP BOX/ABSORPTION TRENCH DETAIL
N.T.S.



ASTM C33 SAND SPECIFICATION		
SIEVE SIZE	SIEVE SQUARE OPENING SIZE	SPECIFICATION % PASSING (WET SIEVE)
0.375"	9.5 mm	100.0 - 100.0
#4	4.75 mm	95.0 - 100.0
#8	2.36 mm	80.0 - 100.0
#16	1.18 mm	50.0 - 85.0
#30	600 μ m	25.0 - 60.0
#50	300 μ m	5.0 - 30.0
#100	150 μ m	< 10.0
#200	75 μ m	< 5.0

ELJEN IN-DRAIN CROSS SECTION DETAIL
N.T.S.

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IN MECHANICAL ENGINEERING AND SURVEYING
P.S. LICENSE NO. 650075
P.E. LICENSE NO. 35398

DATE

<h1 style="margin: 0;"><u>BARODA CLUSTER</u></h1> <h1 style="margin: 0;"><u>SUBDIVISION</u></h1> <p style="margin: 5px 0 0 0;">TOWN OF CHESTER COUNTY OF ORANGE, NEW YORK</p>		
PROJECT TITLE		
<h2 style="margin: 0;"><u>SANITARY & WATER</u></h2> <h2 style="margin: 0;"><u>SUPPLY DETAILS (2)</u></h2> <p style="margin: 5px 0 0 0;">SECTION 12, BLOCK 1, LOT 31</p>		
DRAWING TITLE		
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 2209, SUB-SECTION 2 OF THE N.Y. STATE EDUCATION LAW		
O.C.D. SHEET NO. 7 OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 16 OF 16
SCALE AS SHOWN	CAD REFERENCE WORKING CLUSTER	PROJECT NUMBER 14118.01

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 7 OF 7.