

BARODA CLUSTER SUBDIVISION

TOWN OF CHESTER
ORANGE COUNTY, NEW YORK

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

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

ACOE
WETLANDS
(TYP)

EXISTING
PONDING
AREA

MICROPOL
EXTENDED
DETENTION
POND 4P

MICROPOL
EXTENDED
DETENTION
POND 3P

BAIRDS CROSS ROAD

ACOE
WETLANDS
(TYP)

RIDGE PRESERVATION
OVERLAY DISTRICT
ELEVATION=500'

N/F
OCEANE PROPERTIES, LLC
SECTION 7 BLOCK 1 LOT 45.12

RESERVED FOR HEALTH DEPARTMENT APPROVAL

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

N/F
NORFOLK SOUTHERN CORP
SECTION 7 BLOCK 1 LOT 44

N/F
PALMER
SECTION 13 BLOCK 1 LOT 14.1

N/F
TOWN OF CHESTER
SECTION 13 BLOCK 1 LOT 86.23

N/F
TOWN OF CHESTER
SECTION 13 BLOCK 1 LOT 1,221

N/F
WEINBERG
SECTION 13 BLOCK 2 LOT 14

N/F
COTSIS
SECTION 12 BLOCK 1 LOT 65

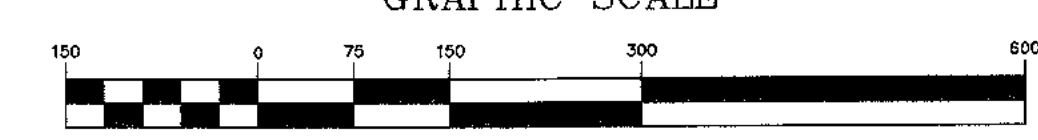
N/F
DUGGAN
SECTION 12 BLOCK 1 LOT 66

N/F
ANDRICK
SECTION 12 BLOCK 1 LOT 69

N/F
CALZADA
SECTION 12 BLOCK 1 LOT 70

N/F
HARTSEL
SECTION 12 BLOCK 1 LOT 71

GRAPHIC SCALE



(IN FEET)
1 inch = 150 ft.

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 28 RESIDENTIAL LOTS.
5. TOTAL NUMBER OF SINGLE FAMILY RESIDENTIAL LOTS: 28.
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 AND LOCATED BY NORTH COUNTRY ECOLOGICAL SERVICES ON APRIL 12, 2023.
9. FEDERALLY REGULATED WETLANDS SHOWN AS DELINEATED AND LOCATED BY NORTH COUNTRY ECOLOGICAL SERVICES ON APRIL 12, 2023.
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.
13. THERE ARE TO BE NO TREES, FENCES, STREETScape, ETC. IN THE TOWN OF CHESTER 50' RIGHT-OF-WAY.

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 NYSDOH 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:

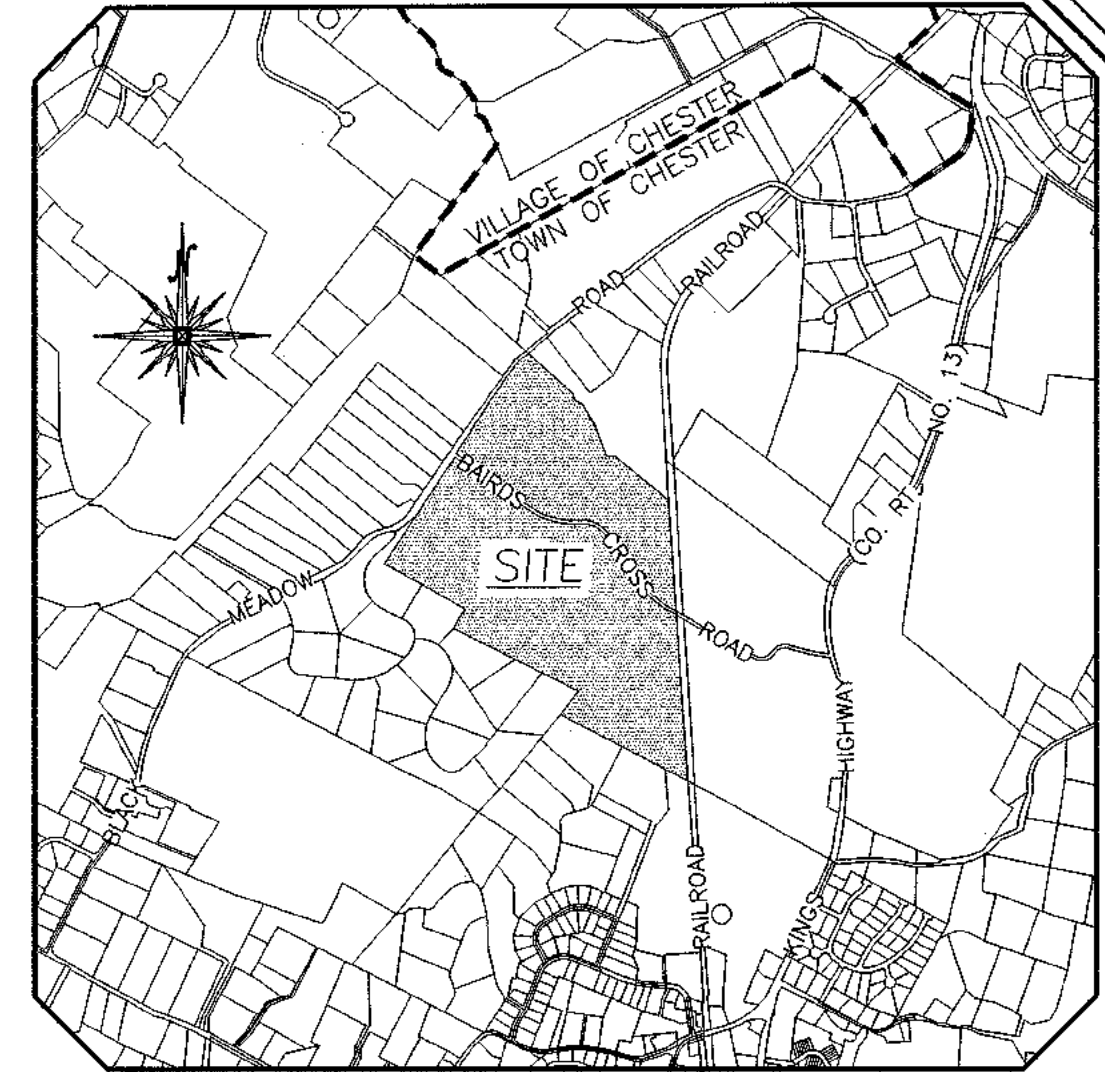
1. PRIOR TO ANY CONSTRUCTION, CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES FOR UTILITY MARK OUTS. CONTRACTOR IS TO ASSUME FULL RESPONSIBILITY FOR MAINTAINING CONTINUOUS UTILITY SERVICE AND REPAIRS TO UTILITIES IN THE EVENT OF DAMAGE.
2. PRIOR TO ANY CONSTRUCTION, CONTRACTOR IS TO FIELD LOCATE AND VERIFY 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 NYSDOH 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.
2. 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.
3. THE CLEARING LIMIT LINE, CLEARLY DEFINED ON THIS PLAN, IS TO BE STRICTLY ADHERED TO.
4. 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).
5. 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.
6. 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.



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 (%)	20	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	ROADWAY CONSTRUCTION
11	EROSION CONTROL PLAN
12	STREET TREE PLAN
13	PROFILE SHEET & SITE DETAILS (1)
14	PROFILE SHEET & SITE DETAILS (2)
15	SANITARY & WATER SUPPLY DETAILS (1)
16	SANITARY & WATER SUPPLY DETAILS (2)
17	STORMWATER DETAILS

RECORD OWNER/APPLICANT

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

DATE	REVISIONS	INITIALS
8-2-23	REVISIONS AS PER UPRATED WETLAND DELINEATION	J.P.
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	J.P.
1-9-19	SUB/WETLAND SEPARATIONS, ADDED BUFFERS	J.P.
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	NWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	NWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NWS
6-19-15	REVISED PER PB COMMENTS	NWS
9-4-14	REVISED ENTRANCE	J.P.
6-18-14	ORIGINAL PREPARATION DATE	J.P.

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

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
COSENT, NEW YORK 10824
(945) 294-0008
2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4048
JOSEPH A. PFAU P.E.
LICENSE NO. 059645
MICHAEL F. PIETRZAK P.E.
LICENSE NO. 059023
VINCENT A. PIETRZAK P.E.
P.E. LICENSE NO. 076886 (P.E. LICENSE NO. 054075)
K.J.P.L.S. LICENSE NO. 35398

SIGNATURE DATE

BARODA CLUSTER SUBDIVISION

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

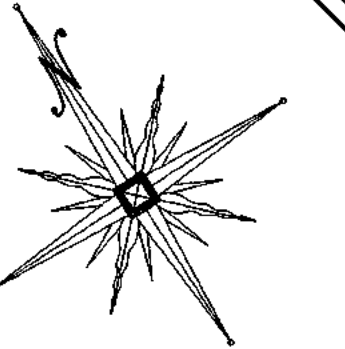
COVER SHEET

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.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
1 OF 7	N/A OF N/A	1 OF 17
SCALE	CAD REFERENCE	PROJECT NUMBER
1"=150'	WORKING R1	14118.01



- 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.
 4. UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS, IF ANY, ARE NOT SHOWN HEREON.
 5. CONTACT UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION, AS UNDERGROUND IMPROVEMENTS EXIST WHICH WERE NOT LOCATED AT THE TIME OF THIS SURVEY.
 6. ALL INTERIOR FEATURES ARE NOT SHOWN HEREON.
 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.

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 269
GARNERVILLE, NY 10923

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

DATE	REVISIONS	INITIALS
8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JUP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-4-19	SIDS WETLAND SEPARATIONS, ADDED BUFFERS	JUP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
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9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10824
(845) 294-6006

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4046

JOSEPH J. PFAU P.E.
LICENSE NO. 058845

MICHAEL J. CHERNOG P.L.S.
LICENSE NO. 056023

VINCENT A. PIETRZAK P.E. P.L.S. LICENSED
P.E. LICENSE NO. 078506 (P.L.S. LICENSE NO. 050075)
N.Y.P.L.S. LICENSE NO. 35386

SIGNATURE _____ DATE _____

BARODA CLUSTER SUBDIVISION

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

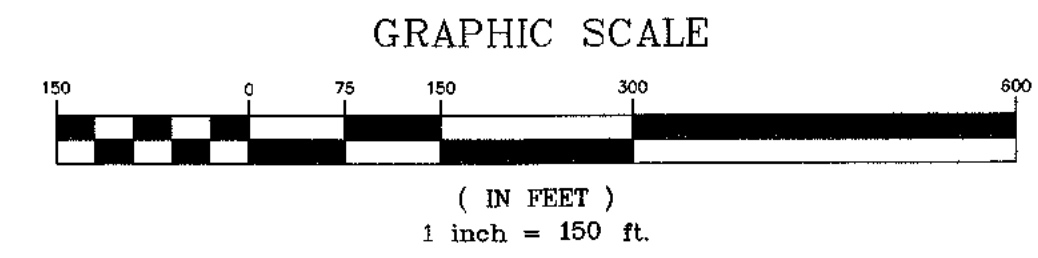
PROJECT TITLE _____

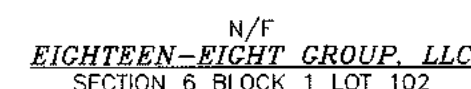
EXISTING CONDITIONS
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

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. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 2 OF 17
SCALE 1"=150'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01





*N86°46'54"E-
73.17'*

*S27°33'06"E-
100.00'*

SEE SHEET 4 OF 17
SEE SHEET 3 OF 17

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.C.H.D. SHEET NO. 2 OF 7.

N/F
ANDRICI
SECTION 12 BLOCK 1 LOT 69

SURVEY NOTES:

- SURVEY NOTES**
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 2. ANY ALTERATION OR ADDITION TO A SURVEY MAP MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S NIKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.
 3. THE SURVEYOR HEREBY CERTIFY 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 FOR THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON. SUCH CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNER.
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 11. TOPOGRAPHY AND SOME EXISTING FEATURES BASED ON MAPPING PROVIDED BY RECORD APPLICANT.
 12. ETC.

RECORD OWNER/APPLICANT

B D R GROUP, LLC
P.O. BOX 259

CARNEVILLE NJ 10923		
8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JUP
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6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIAL

REVISIONS	
MAP CHECK DATE: 00/00/00	INITIALS BY:

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC

282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 294-0606

JOSEPH J. PFAU P.E.  **MICHAEL P. CREEGAN P.L.S.**
 LICENSE NO. 068945 LICENSE NO. 050323
VINCENT A. PIETRZAK P.E. P.L.S. LEED® AP
 P.E. LICENSE NO. 076836 P.L.S. LICENSE NO. 060075
 NIDR 11/07/97 NO. 95068

SIGNATURE _____ DATE _____

BARODA CLUSTER
SUBDIVISION

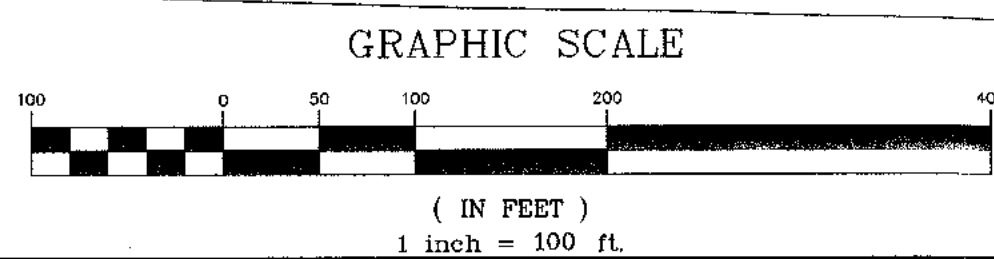
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE _____

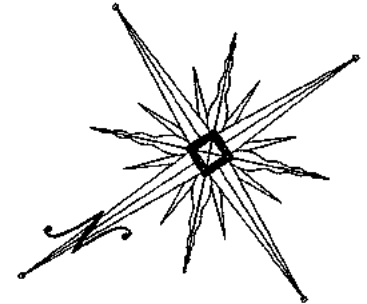
PLAT SHEET (1)

DRAWING TITLE

O.C.H.D. SHEET NO. 2 OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 3 OF 17
SCALE 1"=100'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01



BLACK MEADOW ROAD



N/F
PALMER
SECTION 13 BLOCK 1 LOT 14.1

N/F
TOWN OF CHESTER
SECTION 13 BLOCK 1 LOT 86.23

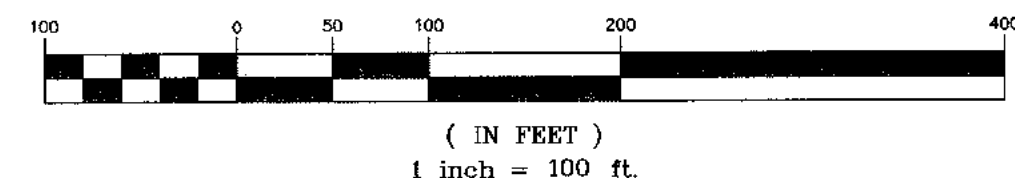
N/F
NORFOLK SOUTHERN CORP
SECTION 7 BLOCK 1 LOT 44

N/F
OCEANE PROPERTIES, LLC
SECTION 7 BLOCK 1 LOT 45.12

HUDSON & LEHIGH RAILROAD

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 11. TOPOGRAPHY AND SOME EXISTING FEATURES BASED ON MAPPING PROVIDED BY RECORD APPLICANT.

GRAPHIC SCALE



RECORD OWNER/APPLICANT

B D R GROUP, LLC
P.O. BOX 250

DATE	DESCRIPTION	INITIALS
8-2-23	REVISIONS AS PER URBAN WETLAND DELINEATION	JUP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-9-19	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	JUP
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6-18-14	ORIGINAL PREPARATION DATE	JUP

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

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC

282 GREENWICH AVENUE, SUITE A GOSHEN, NEW YORK 10824
(845) 284-0606

2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701
(845) 796-4646

JOSEPH J. PFAU P.E. LICENSE NO. 058945
VINCENT A. PIETRZAK P.E. LICENSE NO. 056075
MICHAEL T. CROGAN P.L.S. LICENSE NO. 050323
R.J.P.L.S. LICENSE NO. 35396

SIGNATURE DATE

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.S. 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 17

SCALE 1"=100' CAD REFERENCE WORKING R1 PROJECT NUMBER 14118.01

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

N/F
COTSIS
SECTION 12 BLOCK 1 LOT 65

RESERVED FOR HEALTH DEPARTMENT APPROVAL

SECTION 12

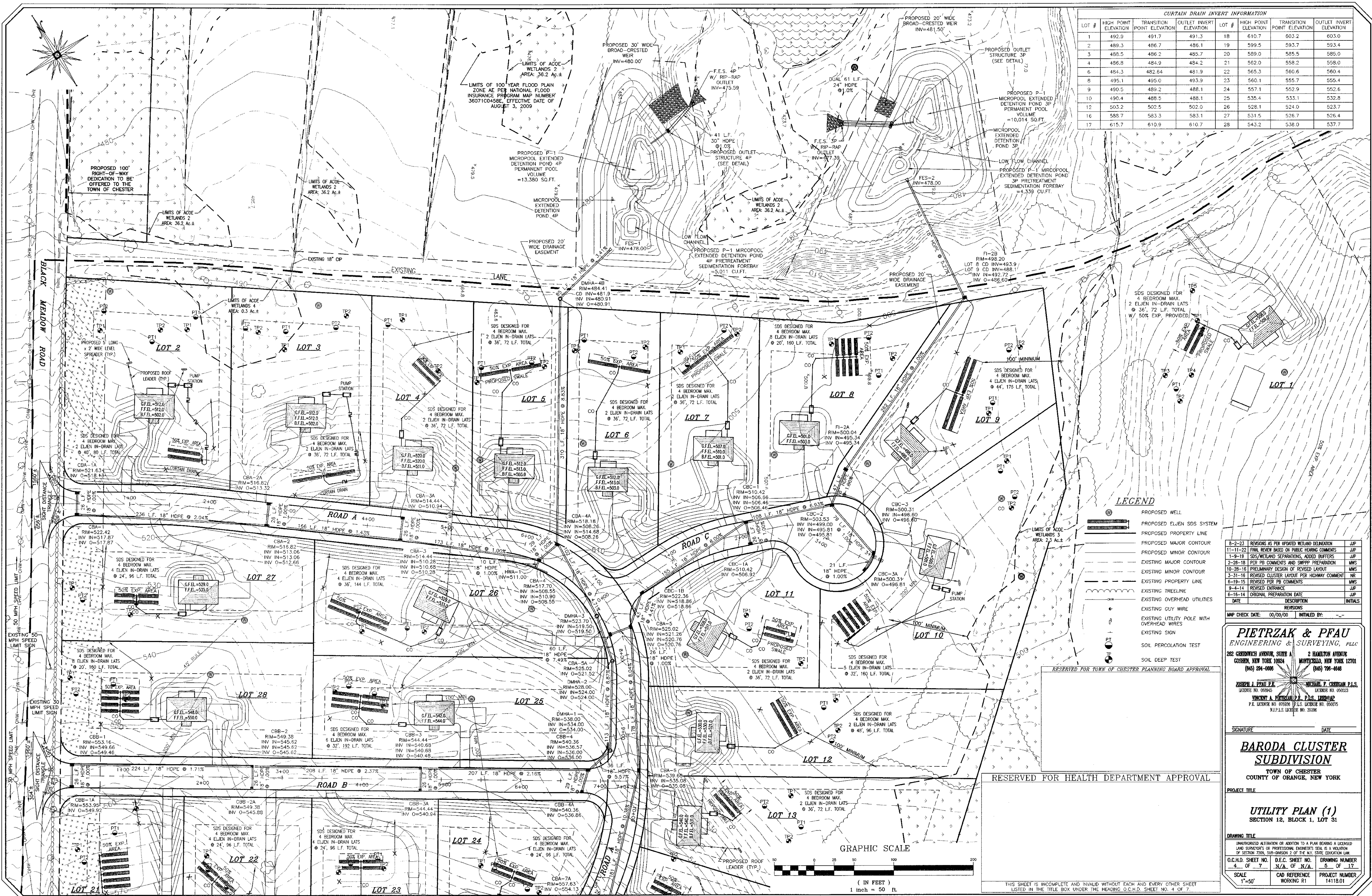
THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 3 OF 7.

SEE SHEET 4 OF 17
SEE SHEET 3 OF 17

MATCH LINE 1
MATCH LINE 1

LOT 1
5,755,436± sq.ft.
132.13± acres

LIMITS OF AGRICULTURAL
CONSERVATION EASEMENT
124.45 ACRES
(HATCHED AREA)



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	488.5	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

REVISIONS	DESCRIPTION	INITIALS
8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JUP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-9-18	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	JUP
2-28-18	FOR PB COMMENTS AND SWPPP PREPARATION	WMS
10-28-18	PRELIMINARY DESIGN OF REVISED LAYOUT	WMS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	WMS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 06/09/00 INITIALED BY: ---

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
202 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10824
(914) 294-0006

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 788-4646

KOSCIUSKO J. PAUL, P.E.
LICENSE NO. 08946

MICHAEL T. CORDAN, P.L.S.
LICENSE NO. 09023

VINCENT A. PIETRZAK, P.L.S. LICENSE NO. 12702
P.L.S. LICENSE NO. 08958
N.Y.P.L.S. LICENSE NO. 35396

SIGNATURE: _____ DATE: _____

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

PROJECT TITLE

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

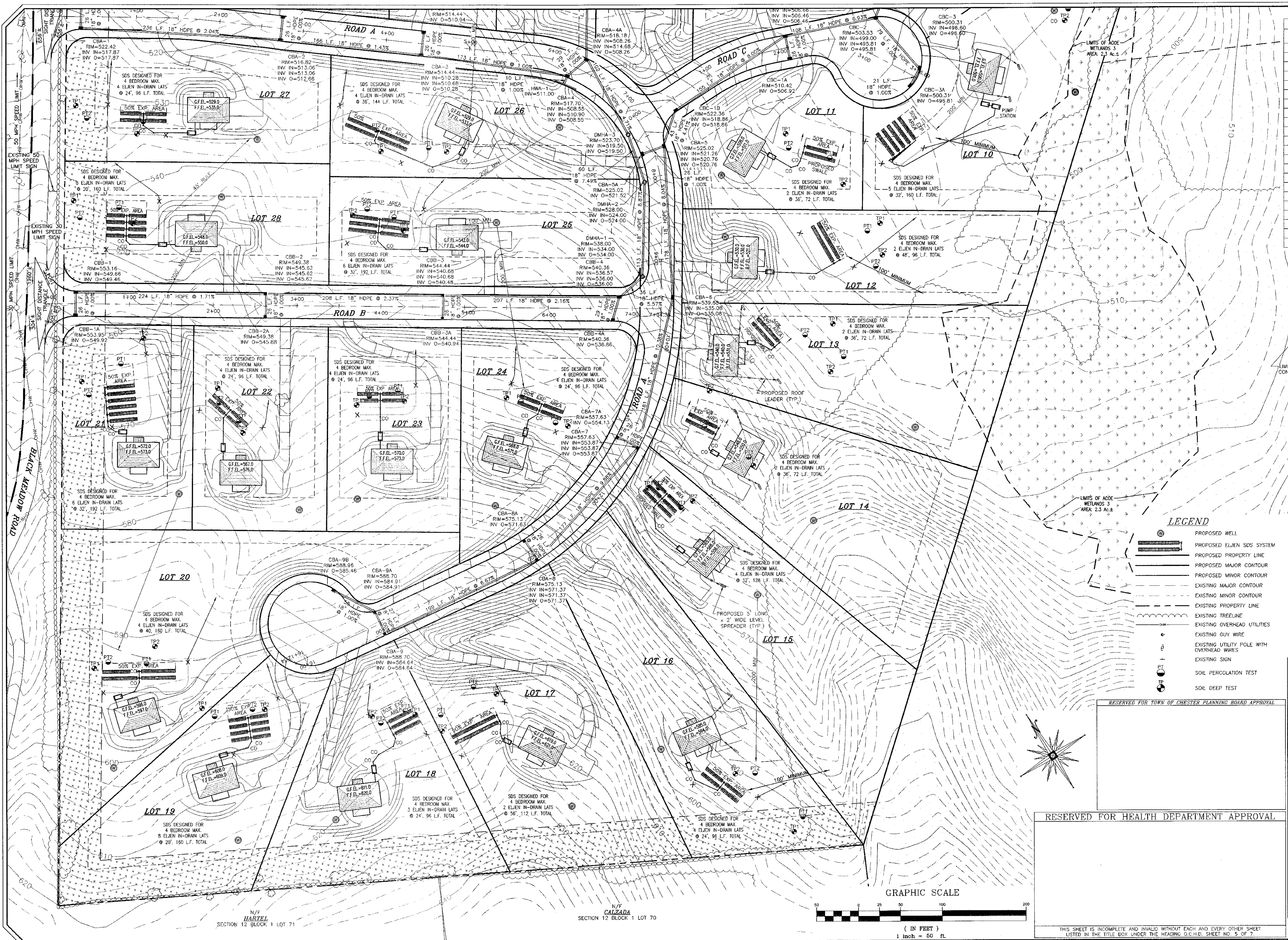
DRAWING TITLE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 2209, SUB-DIVISION 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 OF N/A	5 OF 17

SCALE: 1"=50'

CAD REFERENCE	PROJECT NUMBER
WORKING R1	14118.01

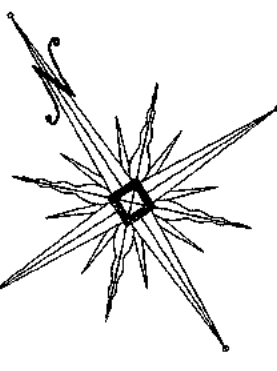


CURTAIN DRAIN INVERT INFORMATION			
LOT #	HIGH POINT ELEVATION	TRANSITION POINT ELEVATION	OUTLET INVERT ELEVATION
1	492.9	491.7	491.3
2	489.3	486.7	486.1
3	488.5	486.2	485.7
4	486.8	484.9	484.2
6	484.3	482.64	481.9
8	495.1	495.0	493.9
9	490.5	489.2	488.1
10	490.4	488.5	488.1
12	503.2	502.5	502.0
16	588.7	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

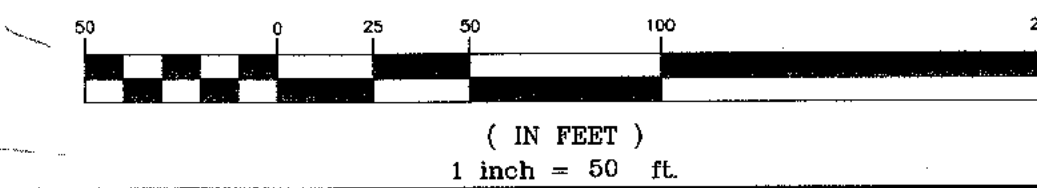
- PROPOSED WELL
- PROPOSED ELJEN SDS SYSTEM
- PROPOSED PROPERTY LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING PROPERTY LINE
- EXISTING TREELINE
- EXISTING OVERHEAD UTILITIES
- EXISTING GUY WIRE
- EXISTING UTILITY POLE WITH OVERHEAD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

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL



RESERVED FOR HEALTH DEPARTMENT APPROVAL

GRAPHIC SCALE



REVISIONS		
DATE	DESCRIPTION	INITIALS
8-2-23	REVISIONS AS PER GRANTED WETLAND DRAINAGE	JUP
11-15-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-5-19	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	JUP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MNS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MNS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MNS
9-1-14	REVISED ENTRANCE	JUP
6-18-14	ORIGINAL PREPARATION DATE	JUP
SIGNATURE		
DATE		

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
CASHEN, NEW YORK 10824
(845) 294-0008
2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 790-4646

JOSEPH J. PFAU P.E.
LICENSE NO. 08845
VINCENT A. PIETRZAK P.E., P.L.S., LEEDS AP
P.E. LICENSE NO. 098838 P.L.S. LICENSE NO. 650075
N.J.P.L.S. LICENSE NO. 35396

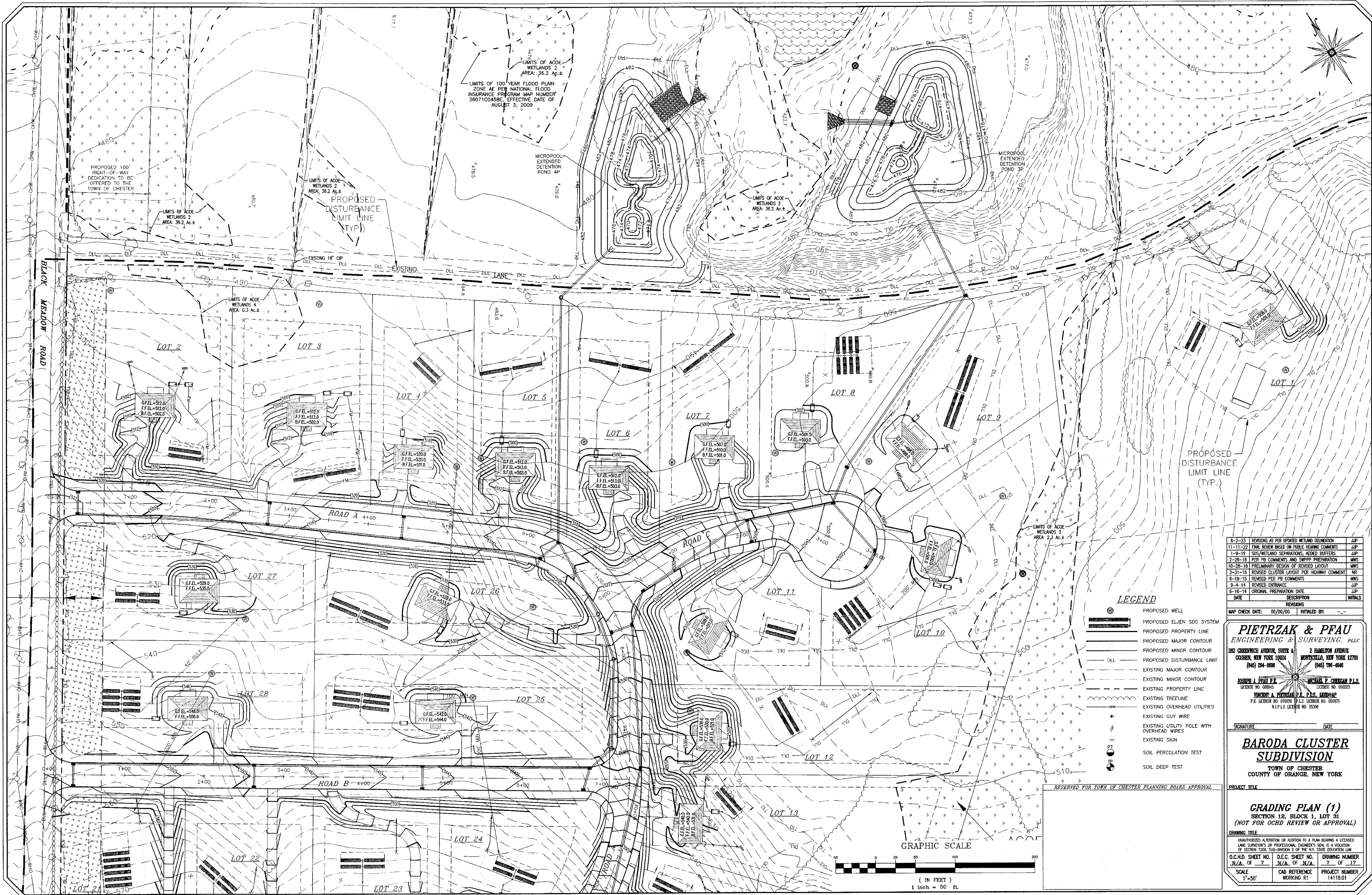
BARODA CLUSTER
SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

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 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO. 5 OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 8 OF 17
SCALE 1"=50'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01

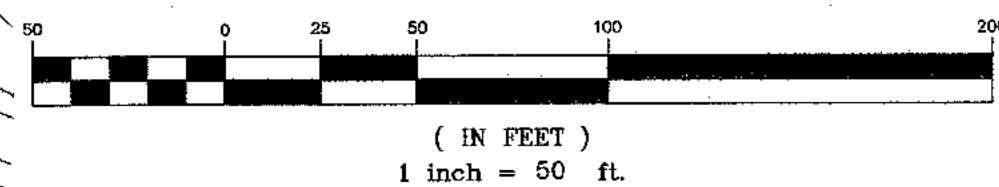
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LEGEND

- 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

GRAPHIC SCALE



DATE	DESCRIPTION	INITIALS
8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JJP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JJP
1-9-18	SDS/WETLAND SEPARATIONS, ADDED BUTTERS	JJP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
8-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JJP
6-16-14	ORIGINAL PREPARATION DATE	JJP

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

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A GARDEN, NEW YORK 10024 (945) 294-0506
2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (845) 706-6946

JOSEPH J. PIETRZAK P.E. LICENSE NO. 058945
VINCENT A. PIETRZAK P.E., LEED@P P.E. LICENSE NO. 078506 P.L.S. LICENSE NO. 050075
MICHAEL P. COGGAN P.L.S. LICENSE NO. 050323

SIGNATURE: DATE:

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.

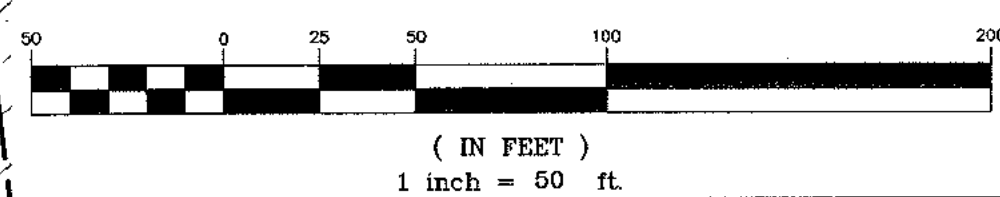
O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 7 OF 17
SCALE 1"=50'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01



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
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- EXISTING UTILITY POLE WITH OVERHEAD WIRES
- EXISTING SIGN
- SOIL PERCOLATION TEST
- SOIL DEEP TEST

GRAPHIC SCALE



8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JWP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JWP
1-4-19	SDS WETLAND SEPARATIONS, ADDED BUTTERS	JWP
2-28-18	PER FB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
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9-4-14	REVISED ENTRANCE	JWP
8-16-14	ORIGINAL PREPARATION DATE	JWP
DATE	DESCRIPTION	INITIALS

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

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 294-0000
2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 706-4446
JOSEPH J. PIETRZAK P.E.
LICENSE NO. 058845
MICHAEL T. PFAU P.E.
LICENSE NO. 054022
VINCENT A. PIETRZAK P.E., P.L.S. LEAD
P.E. LICENSE NO. 076908 P.L.S. LICENSE NO. 050075
N.Y.P.L.S. LICENSE NO. 33366

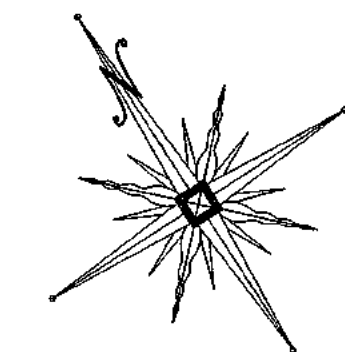
SIGNATURE DATE

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

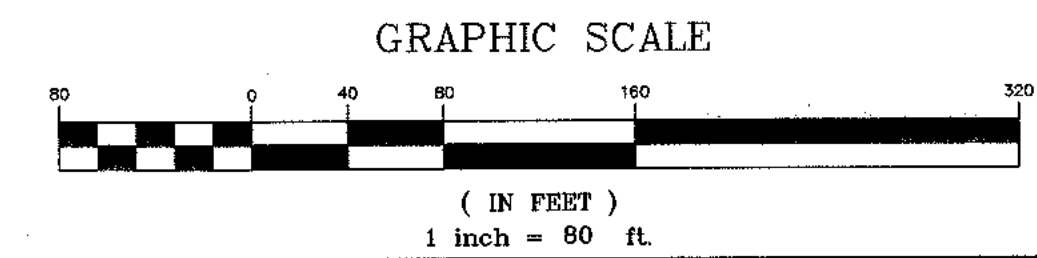
PROJECT TITLE

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

O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 8 OF 17
SCALE 1"=50'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01



- LEGEND**
- SFR SFR Silt fence for roadway construction
 - DAS DAS Temporary diversion swale for disturbed areas
 - Stone Check Dam
 - CWS CWS Temporary diversion swale for clean water
 - Inlet Protection
 - Stabilized Construction Entrance
 - Temporary Culvert with Inlet & Outlet Protection
 - Proposed Disturbance Limit Line
 - SFR Proposed Soil Stockpile Location



REVISIONS		INITIALED BY
8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JUP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-5-19	2015 WETLAND SEPARATIONS, ADDED BUFFERS	JUP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MMS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MMS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MMS
8-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 00/00/00

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 284-0086
2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 798-4646

JOSEPH J. PIETRZAK, P.E.
LICENSE NO. 668845
VINCENT A. PFAU, P.E.
P.E. LICENSE NO. 076808, N.Y.S. LICENSE NO. 050075
N.Y.S. LICENSE NO. 15386

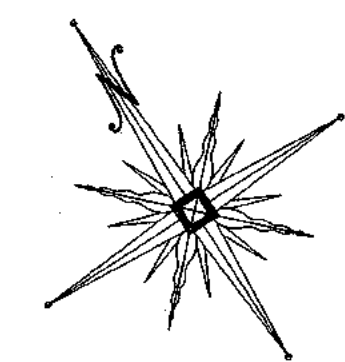
SIGNATURE _____ DATE _____

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.

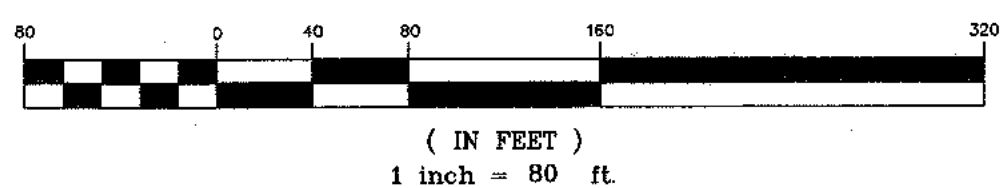
O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
N/A. OF 7	N/A. OF N/A.	8 OF 17
SCALE 1"=80'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01



LEGEND

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

GRAPHIC SCALE



8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	AJP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	AJP
1-9-19	SOS/WETLAND SEPARATIONS, ADDED BUFFERS	AJP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
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5-4-14	REVISED ENTRANCE	AJP
6-18-14	ORIGINAL PREPARATION DATE	AJP
DATE	DESCRIPTION	INITIALS

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

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
CROTON, NEW YORK 10524
(914) 334-0806

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(914) 736-4646

JOSEPH J. PIETRZAK P.E.
LICENSE NO. 085845

MICHAEL T. CROGAN P.L.S.
LICENSE NO. 050323

VINCENT A. PIETRZAK P.E., P.L.S. LICENSED
P.E. LICENSE NO. 076888 P.L.S. LICENSE NO. 050075
N.J.P.L.S. LICENSE NO. 35386

SIGNATURE _____ DATE _____

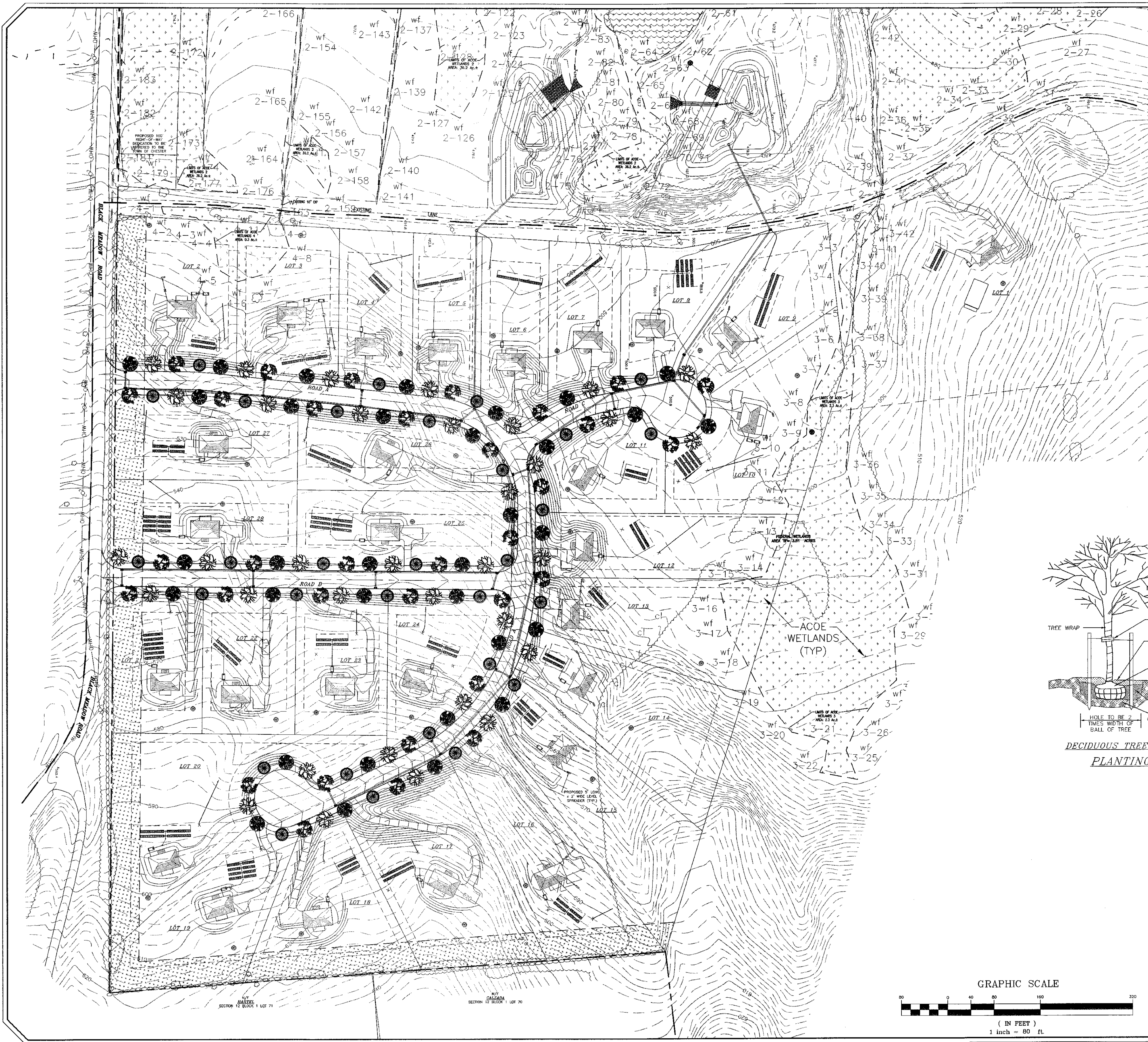
BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

**EROSION CONTROL PLAN
INDIVIDUAL LOT CONSTRUCTION**
SECTION 12, BLOCK 1, LOT 31
(NOT FOR UCHD REVIEW OR APPROVAL)

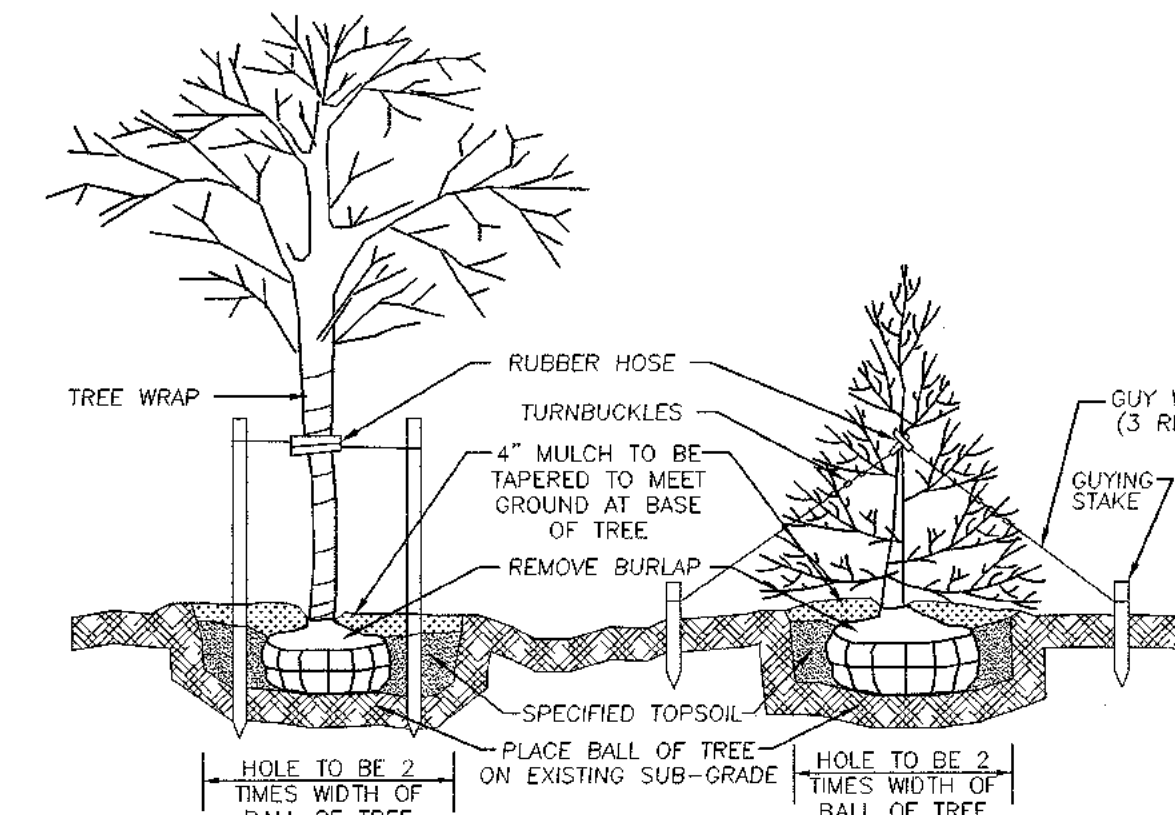
DRAWING TITLE

O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 10 OF 17
SCALE 1"=80'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01

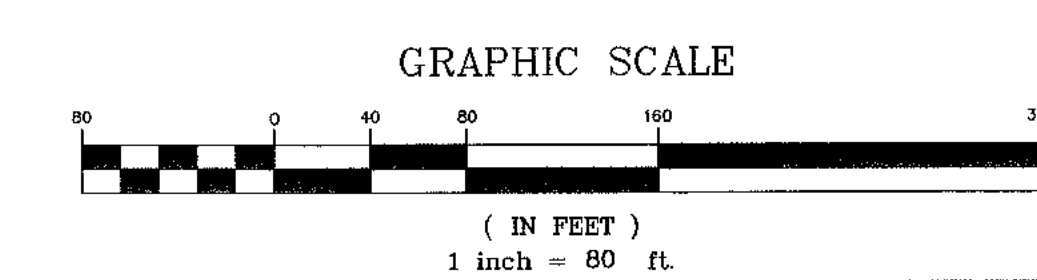
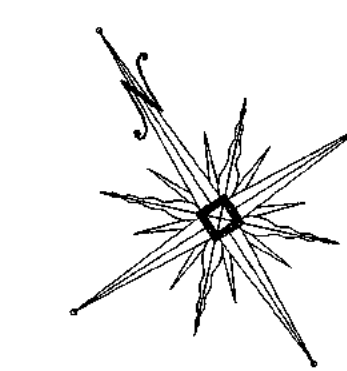


STREET TREE AND SCREENING PLANTS LIST					
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
	10	ACER RUBRUM	RED MAPLE	3" TO 3-1/2" C	B & B
	10	ACER SACCHARUM	SUGAR MAPLE	3" TO 3-1/2" C	B & B
	9	QUERUS PALUSTRIS	PIN OAK	2 1/2 TO 3" CAL.	B & B
	10	QUERCUS RUBRA	NORTHERN RED OAK	3" TO 3-1/2" C	B & B

- 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 SHOULD 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 LOOSENEED 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.



8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JUP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-8-19	ISSUE WETLAND SEPARATIONS, ADDED BUFFERS	JUP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
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
6-18-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS
MAP CHECK DATE: 00/00/00 INITIALED BY: --		

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
CROTON, NEW YORK 10524
(914) 284-0806

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(914) 798-6648

JOSEPH J. PIETRZAK P.E.
LICENSE NO. 059945

MICHAEL F. CHODURA P.L.S.
LICENSE NO. 650223

VINCENT A. PIETRZAK P.L.S. LEED@AP
P.E. LICENSE NO. 070686 P.L.S. LICENSE NO. 050075
N.J.P.L.S. LICENSE NO. 35396

SIGNATURE _____ DATE _____

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

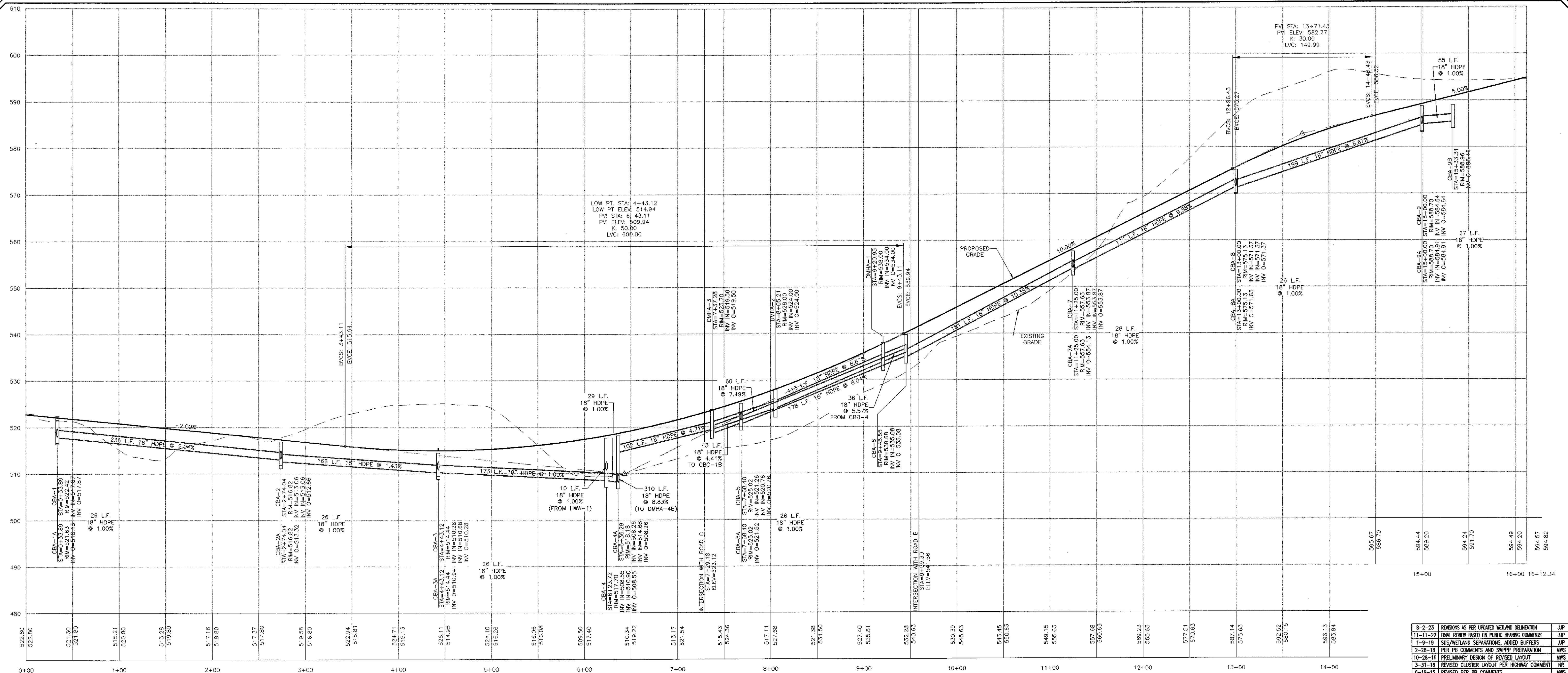
PROJECT TITLE _____

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

DRAWING TITLE _____

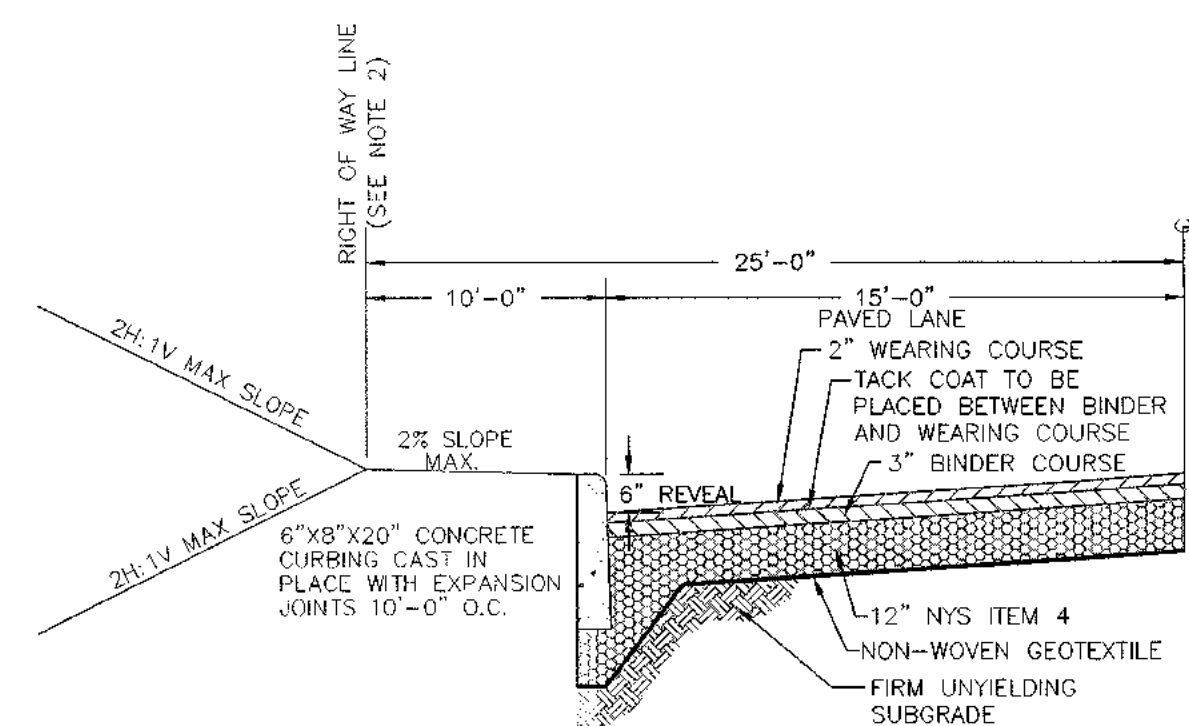
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO. _____	D.E.C. SHEET NO. _____	DRAWING NUMBER _____
N/A. OF 7	N/A. OF N/A.	12 OF 17
SCALE 1"=80'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01

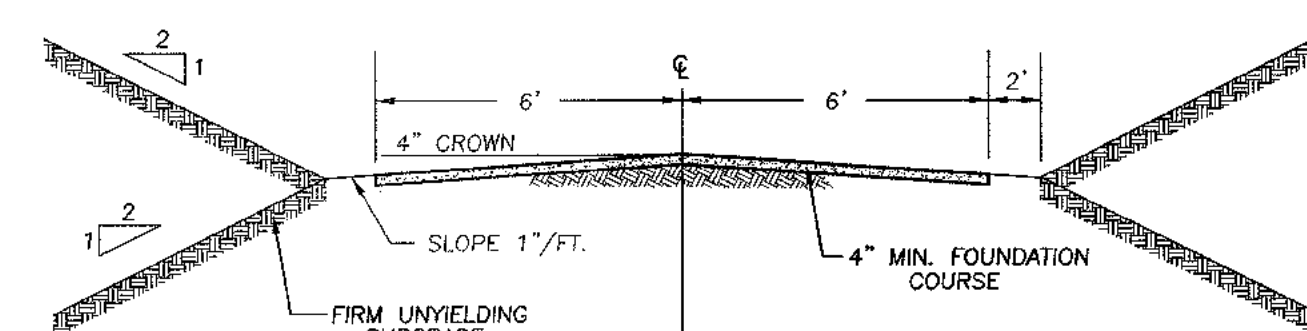


PROPOSED ROAD A PROFILE

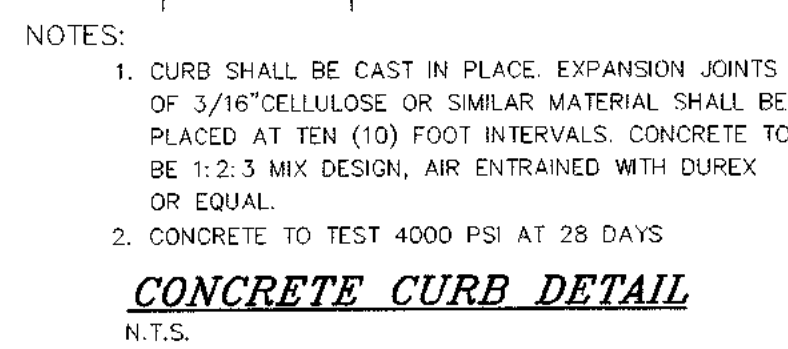
PROFILE SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'



NOTES:
1. ALL THICKNESSES ARE MINIMUM.
2. NO TREES, FENCES, STREETSCAPE, ETC. ARE TO BE LOCATED WITHIN THE TOWN OF CHESTER 50 FOOT RIGHT OF WAY.
TYPICAL ROAD HALF SECTION
N.T.S.

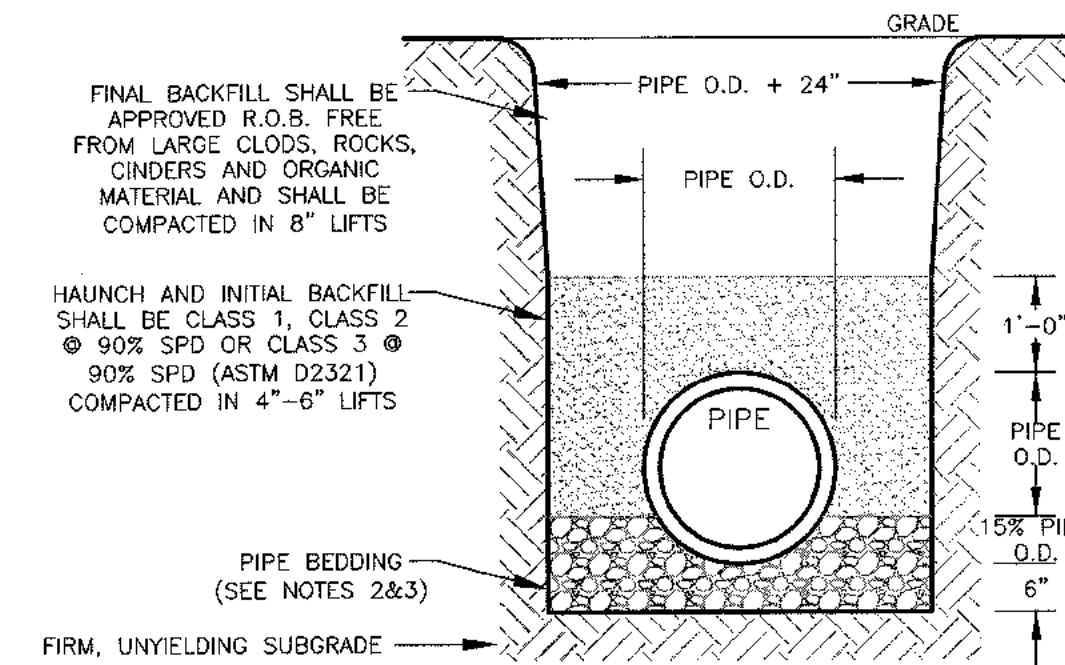


DRIVEWAY CROSS SECTION
N.T.S.



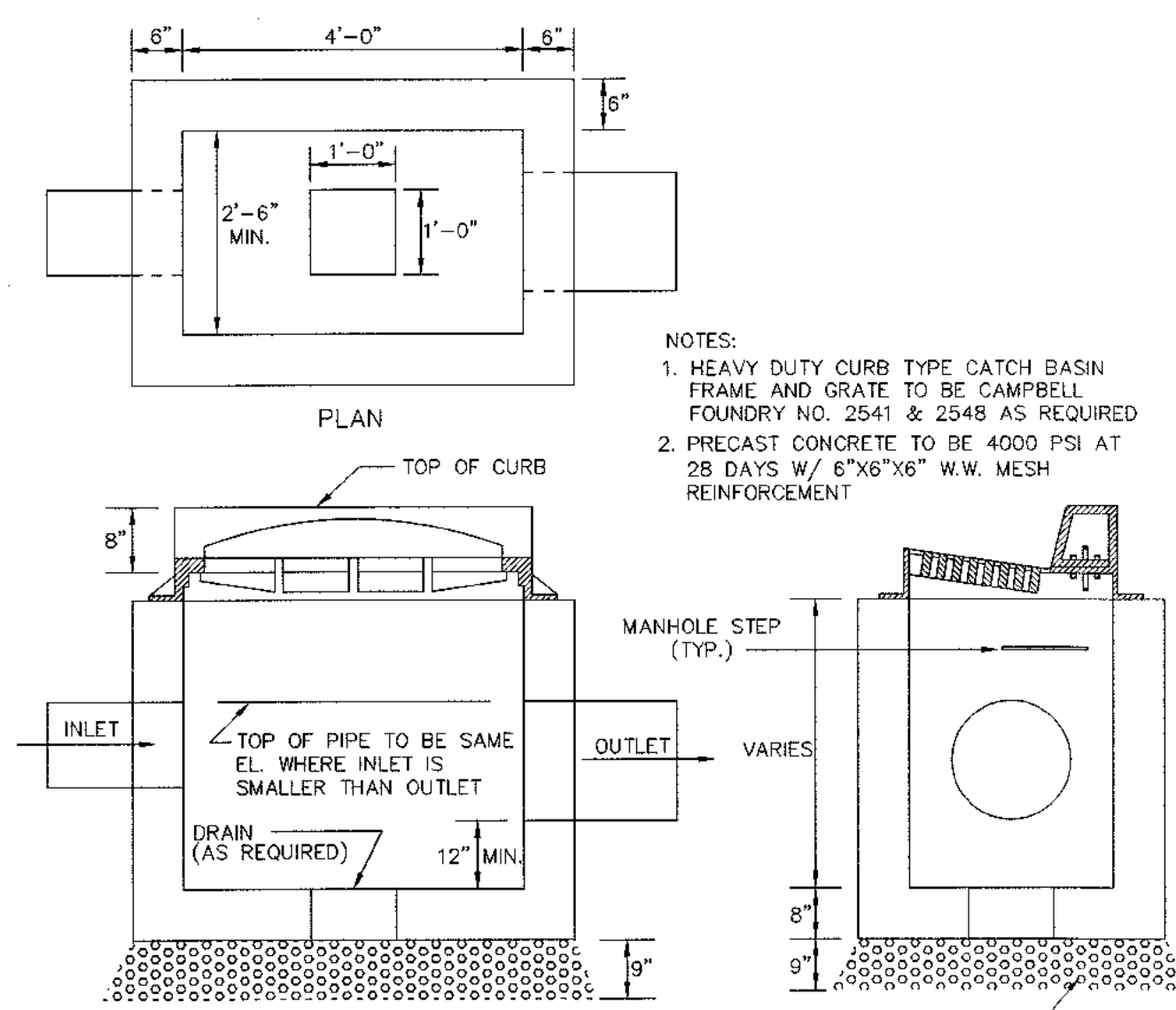
NOTES:
1. CURB SHALL BE CAST IN PLACE. EXPANSION JOINTS OF 3/16\"/>

CONCRETE CURB DETAIL
N.T.S.



- NOTES:
1. SOIL CLASSES AS DEFINED IN ASTM D 2487 AND D 2321.
2. PIPE BEDDING FOR STORM SEWERS SHALL BE CLASS 1 EMBEDMENT MATERIAL OR CLASS 2 OR 3 EMBEDMENT MATERIAL COMPACTED TO 90% STANDARD PROCTOR DENSITY.
3. PIPE BEDDING FOR WATERMAIN SHALL BE CLASS 1 EMBEDMENT MATERIAL OR SAND.
4. PARTICLE SIZE IN THE EMBEDMENT ZONE SHALL NOT EXCEED 2\"/>

PIPE BEDDING & BACKFILL DETAIL
N.T.S.



PRECAST CONCRETE CURB INLET DETAIL
N.T.S.

DATE	DESCRIPTION	INITIALS
8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JLP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JLP
1-9-19	SUB/WETLAND SEPARATIONS, ADDED BUFFERS	JLP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-18	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
6-4-14	REVISED ENTRANCE	JLP
6-16-14	ORIGINAL PREPARATION DATE	JLP

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

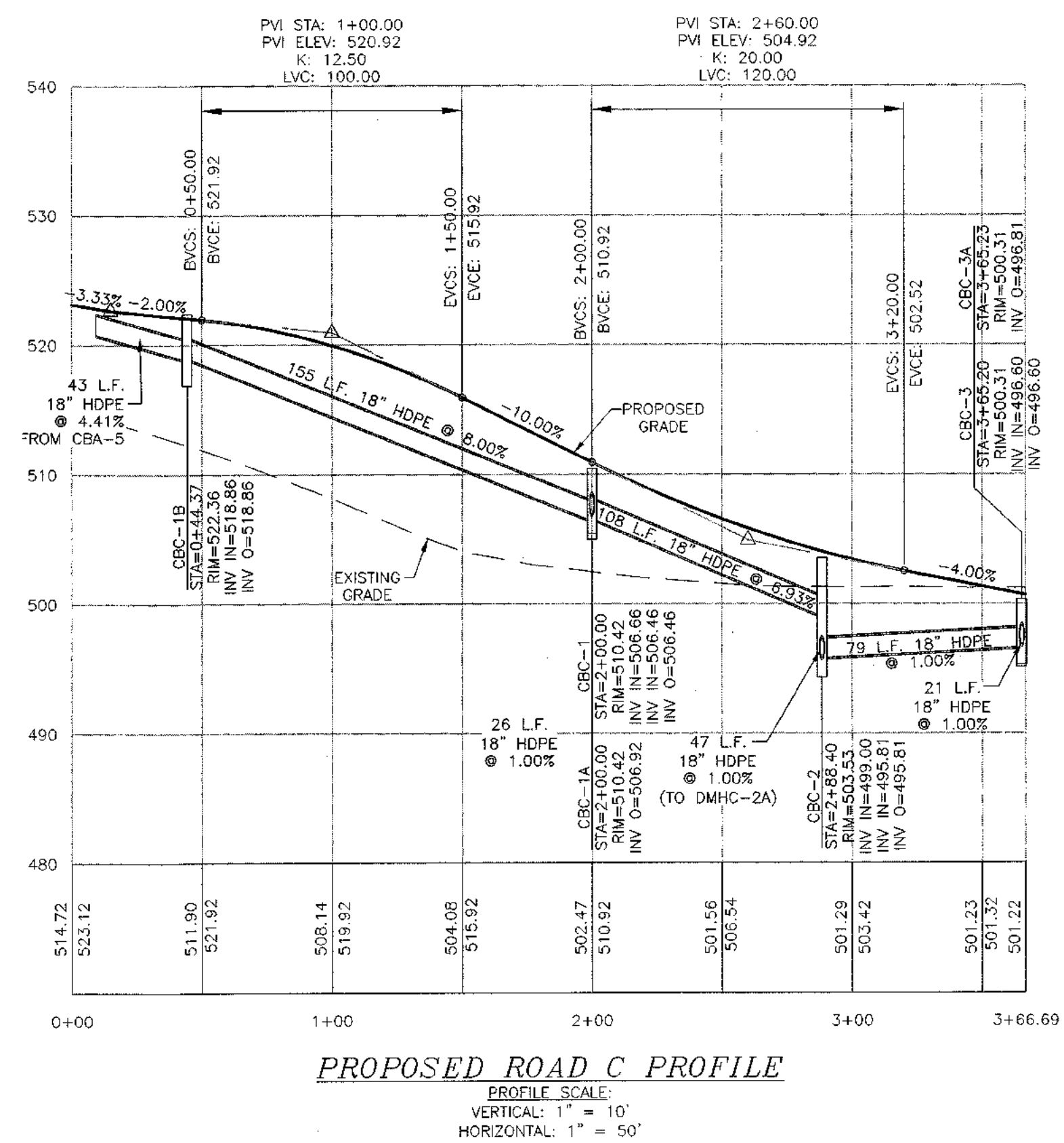
PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A GOSHEN, NEW YORK 10924 (945) 294-0886
2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (945) 736-4646

JOSEPH J. PIETRA, P.E. LICENSE NO. 088845
MICHAEL P. CHERIAN, P.L.S. LICENSE NO. 050223
VINCENT A. PIETRZAK, P.E., P.L.S. LICENSE NO. 078808
P.L.S. LICENSE NO. 060075
N.Y.P.S. LICENSE NO. 35386

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 UCHD REVIEW OR APPROVAL)		
DRAWING TITLE		
O.C.H.D. SHEET NO. 19 OF 17	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 19 OF 17
SCALE AS SHOWN	CAD REFERENCE WORKING R1	PROJECT NUMBER 14116.01

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL



8-2-23	REVISIONS AS PER UPDATED MATERIAL DELINEATION	JWP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JWP
1-9-19	SOS/WE/LAND SEPARATIONS, ADDED BUFFERS	JWP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	NRS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NRS
6-19-15	REVISED LAYOUT PER PB COMMENTS	JWP
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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PIETRZAK & PFAU

ENGINEERING & SURVEYING, PLLC

262 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(945) 284-0806

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4646



JOSEPH J. PFAU P.E.
LICENSE NO. 058945

MICHAEL P. CRESSMAN P.E.S.
LICENSE NO. 060523

VINCENT A. PIETRZAK P.E., P.E.S., LEED®AP
P.E. LICENSE NO. 078936 P.E.S. LICENSE NO. 060075
N.I.P.L.S. LICENSE NO. 35366

SIGNATURE _____ DATE _____

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

PROJECT TITLE	
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PROFILE SHEET & SITE DETAILS (2)

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

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. <u>N/A</u> OF <u>7</u>	D.E.C. SHEET NO. <u>N/A</u> OF <u>N/A</u>	DRAWING NUMBER <u>14</u> OF <u>17</u>
SCALE AS SHOWN	CAD REFERENCE WORKING R1	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
2	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"	ELJEN 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"	ELJEN 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
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 LOAM W/ HARD CLAY POCKETS 60'-80" DARK BROWN SILTY CLAY LOAM MOTTLING @ 36" NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELJEN 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	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"	ELJEN 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
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"	ELJEN 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"	ELJEN 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'-74" DARK BROWN SILTY, CLAY LOAM MOTTLING @ 80" NO GROUNDWATER, NO BEDROCK	0'-8" TOPSOIL 8'-30" LIGHT BROWN SILTY, SANDY LOAM 30'-72" DARK BROWN SANDY LOAM W/ GRAVEL MOTTLING @ 80" NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELJEN 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: 8 MIN. DEPTH: 12" PT2: 8 MIN. DEPTH: 12"	ELJEN 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 MOTTLING @ 38" NO GROUNDWATER, NO BEDROCK	PT1: 4 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELJEN 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	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'-52" 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"	ELJEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 8 LATERALS @ 24', 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
7	0'-8" TOPSOIL 8'-40" LIGHT BROWN SILTY LOAM W/ TRACE CLAY 40'-74" DARK BROWN FINE SAND NO MOTTLING NO GROUNDWATER, NO BEDROCK	0'-8" TOPSOIL 8'-44" LIGHT BROWN SILTY LOAM W/ TRACE CLAY 44'-66" DARK BROWN FINE SAND NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELJEN 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"	ELJEN 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
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 72'-76" DARK BROWN FINE SAND MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	PT1: 31 MIN. DEPTH: 24" PT2: 40 MIN. DEPTH: 24"	ELJEN 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	26	0'-8" TOPSOIL 8'-66" 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: 9 MIN. DEPTH: 24" PT2: 4 MIN. DEPTH: 24"	ELJEN 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
9	0'-8" TOPSOIL 8'-60" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS MOTTLING @ 28" 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"	ELJEN 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	27	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'-38" LIGHT BROWN SILTY LOAM 38'-76" DARK BROWN SILTY, SANDY LOAM MOTTLING @ 30" NO GROUNDWATER, NO BEDROCK	PT1: 26 MIN. DEPTH: 24" PT2: 32 MIN. DEPTH: 24"	ELJEN 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
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'-60" LIGHT BROWN HARD PACKED SILTY LOAM 60'-78" DARK BROWN FINE SAND MOTTLING @ 20" NO GROUNDWATER, NO BEDROCK	PT1: 45 MIN. DEPTH: 24" PT2: 35 MIN. DEPTH: 24"	ELJEN 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	28	IT1 0'-10" TOPSOIL 10'-36" LIGHT BROWN SILTY, SAND LOAM 36'-56" DARK FINE SAND 56'-64" SANDY GRAVEL (BANK RUN) NO MOTTLING NO GROUNDWATER, NO BEDROCK	IT2 0'-8" TOPSOIL 8'-30" LIGHT BROWN SILTY, SANDY LOAM 30'-30" HARD SHALE NO MOTTLING NO GROUNDWATER	PT1: 2 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELJEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 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"	ELJEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 2 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	1	IT3 0'-10" TOPSOIL 10'-10" HARD SHALE NO MOTTLING NO GROUNDWATER	IT4 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"	ELJEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 48', 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS		IT5 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 MOTTLING @ 20" NO GROUNDWATER, NO BEDROCK	PT1: 4 MIN. DEPTH: 24" PT2: 5 MIN. DEPTH: 24"	ELJEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 4 LATERALS @ 36', 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
14	0'-8" TOPSOIL 8'-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"	ELJEN 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"	ELJEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 113 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"	ELJEN 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'-88" DARK BROWN CLAY LOAM MOTTLING @ 34" NO GROUNDWATER, NO BEDROCK	PT1: 15 MIN. DEPTH: 24" PT2: 9 MIN. DEPTH: 24"	ELJEN 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"	ELJEN 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"	ELJEN 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, 7/11/15, 7/12/15.
- 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, 7/21/15.
- 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 REGRADING, 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 UNDESIRED 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 ACCOMMODATE 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 GROSSES TO DISCHARGE THROUGH THE STACK VENTS.
- 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 NYSDOC 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).
- 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 NYSDOC 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 WATER TIGHT.
- 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 TO 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 NYSDOC WELL COMPLETION REPORT MUST ALSO BE PROVIDED.

8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JLP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JLP
1-9-19	S/S/WETLAND SEPARATIONS, ADDED BUFFERS	JLP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
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	JLP
8-16-14	ORIGINAL PREPARATION DATE	JLP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 02/09/00 INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
202 GREENWICH AVENUE, SUITE 401 GOSHEN, NEW YORK 10924 (914) 294-0066
2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (914) 798-4646

JOSEPH L. PIETRZAK, P.E.
LICENSE NO. 089848

MICHAEL F. PFAU, P.E.
LICENSE NO. 050221

VINCENT A. PIETRZAK, P.E., LICENSED LAND SURVEYOR
P.E. LICENSE NO. 078936 (P.E. LICENSE NO. 050075)
N.Y.S. LICENSE NO. 35395

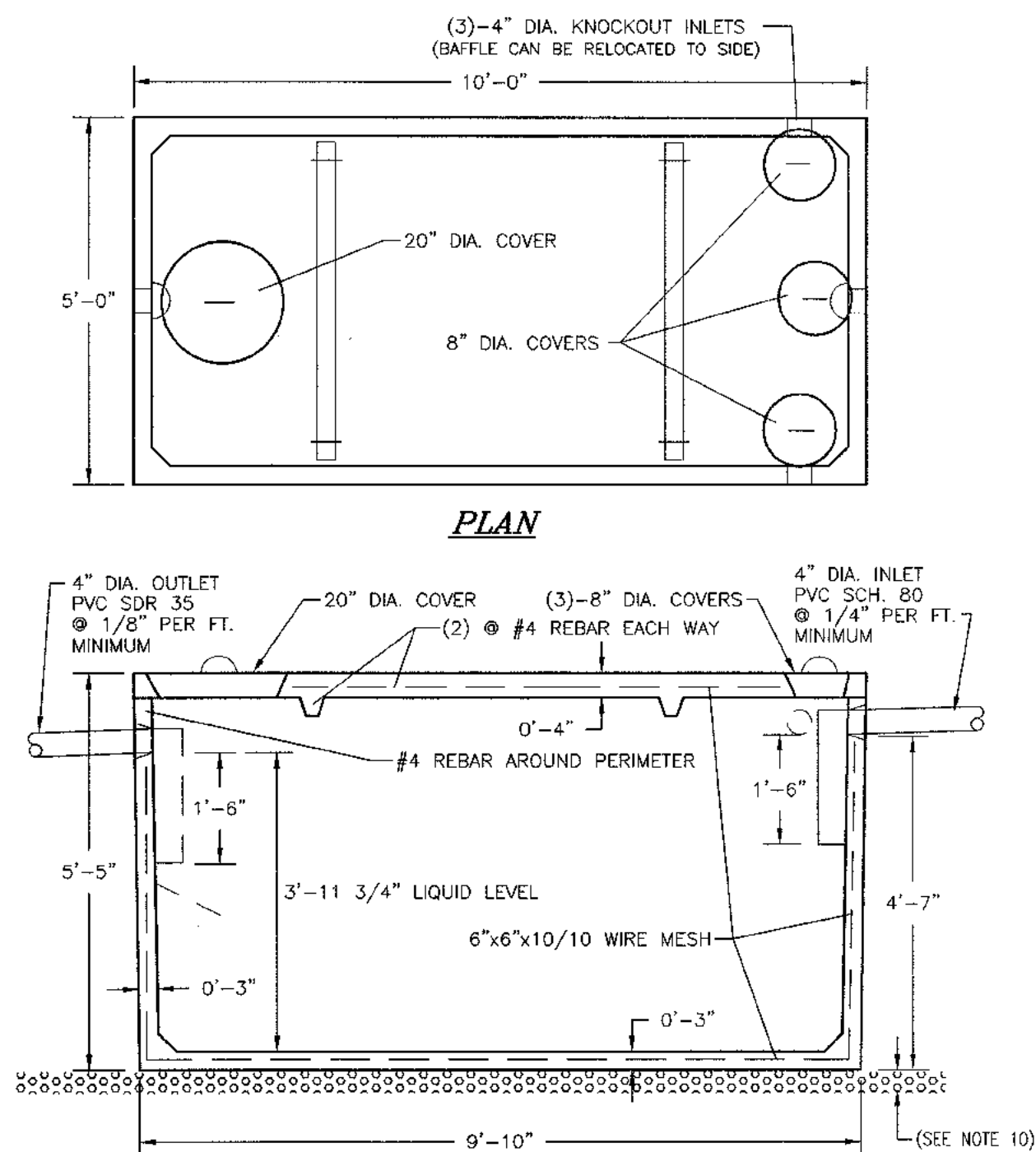
SIGNATURE DATE

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

PROJECT TITLE
SANITARY & WATER
SUPPLY DETAILS (1)
SECTION 12, BLOCK 1, LOT 31

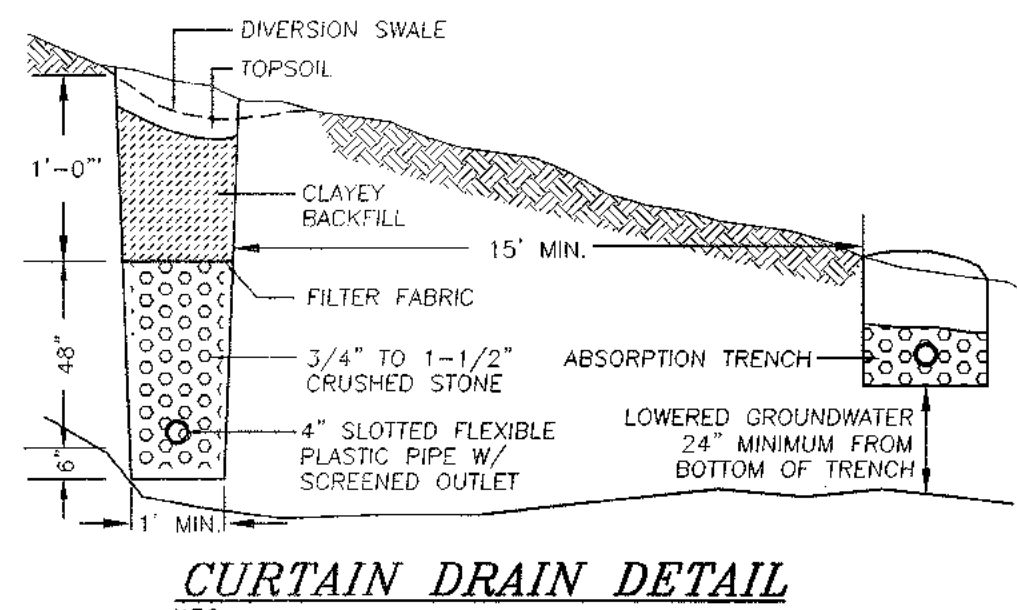
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO. 8 OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 14118.01
SCALE AS SHOWN	CAD REFERENCE WORKING R1	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.

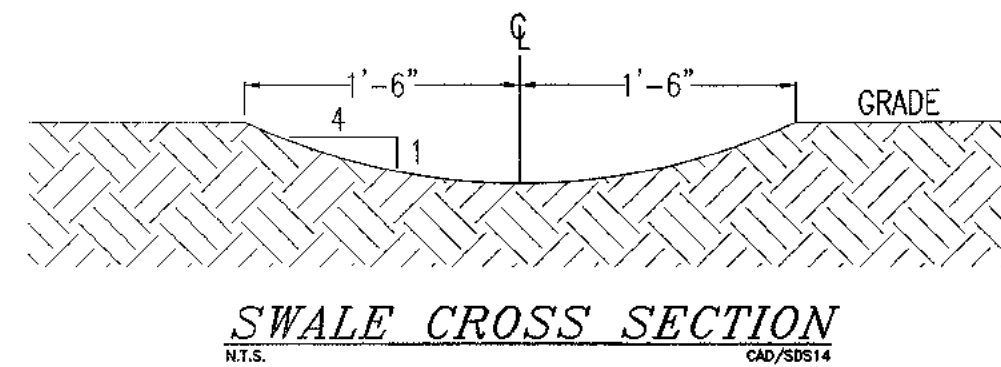


- NOTES:**
- BUILDING SEWER TO BE SCHEDULE 80 PVC.
 - SEPTIC TANK TO BE INSTALLED A MINIMUM OF TEN (10) FEET FROM BUILDING FOUNDATION.
 - LOCATION STAKE TO BE SET IN GROUND DIRECTLY ABOVE THE INLET END COVER.
 - SEPTIC TANK TO BE COVERED WITH EARTH TO A MINIMUM DEPTH OF 6" AND A MAXIMUM DEPTH OF 12".
 - PRECAST CONCRETE TO REACH 4000 PSI STRENGTH @ 28 DAYS.
 - TANK CONSTRUCTION JOINTS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT.
 - INLET INVERT TO BE 3" HIGHER THAN OUTLET INVERT.
 - INLET AND OUTLET JOINTS TO BE SEALED WITH PORTLAND CEMENT GROUT.
 - PRECAST CONCRETE SEPTIC TANK TO BE AS MANUFACTURED BY WOODWARD'S CONCRETE PRODUCTS, INC. MODEL ST1250 OR EQUAL.
 - 3" MINIMUM OF SAND, PEA GRAVEL OR TRENCH AGGREGATE FOR BEDDING.
 - SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.

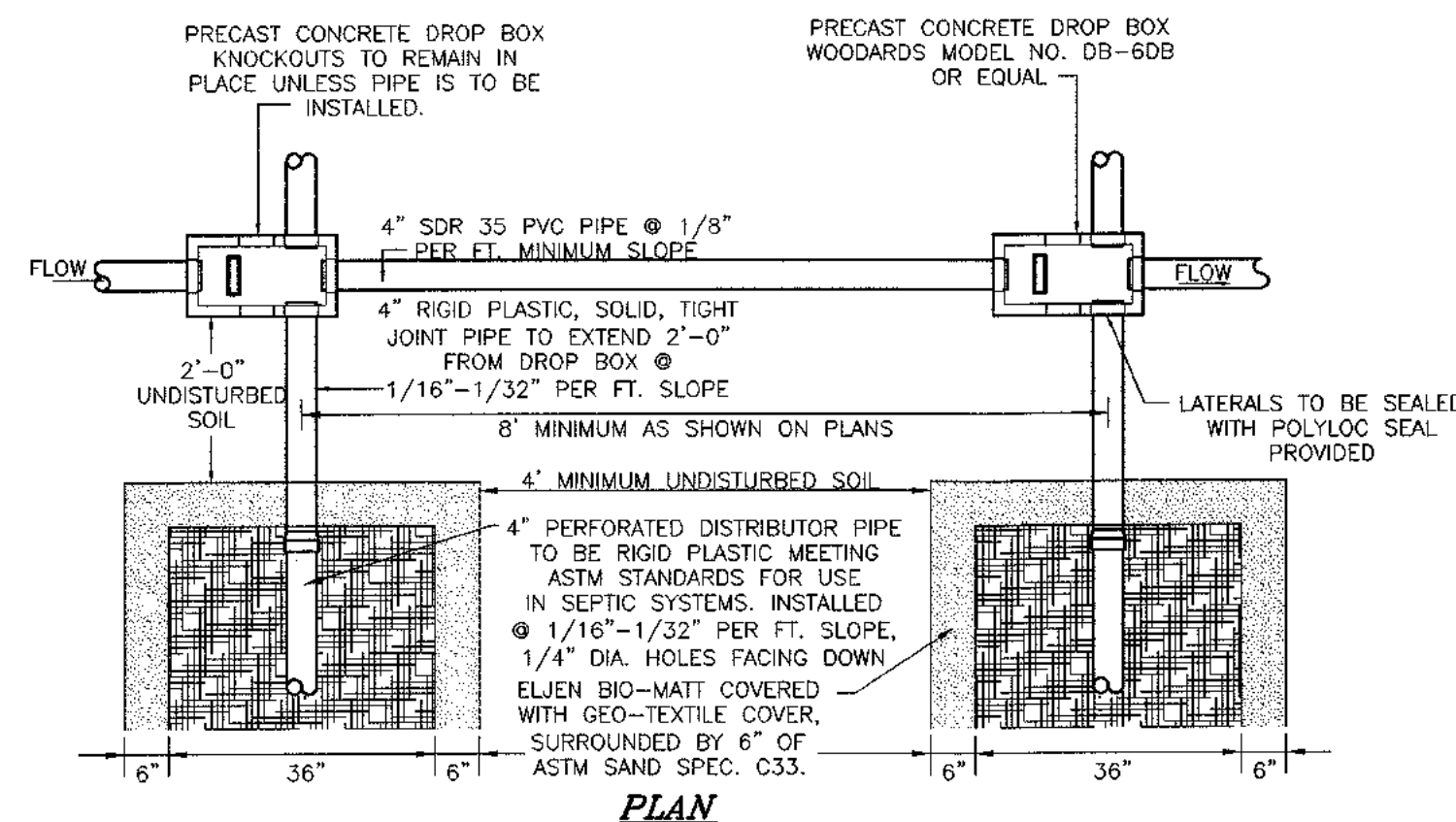
1,250 GALLON SEPTIC TANK DETAIL
N.T.S.



CURTAIN DRAIN DETAIL
N.T.S.

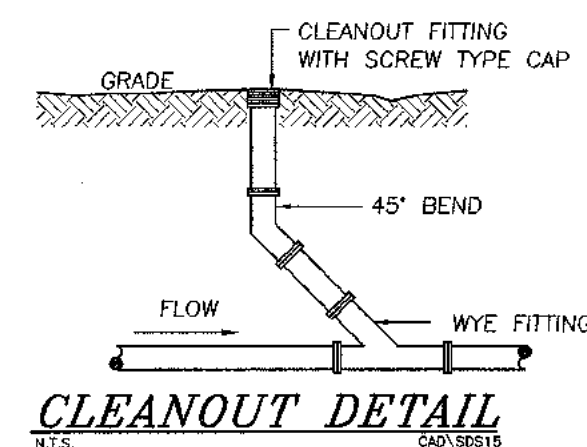


SWALE CROSS SECTION
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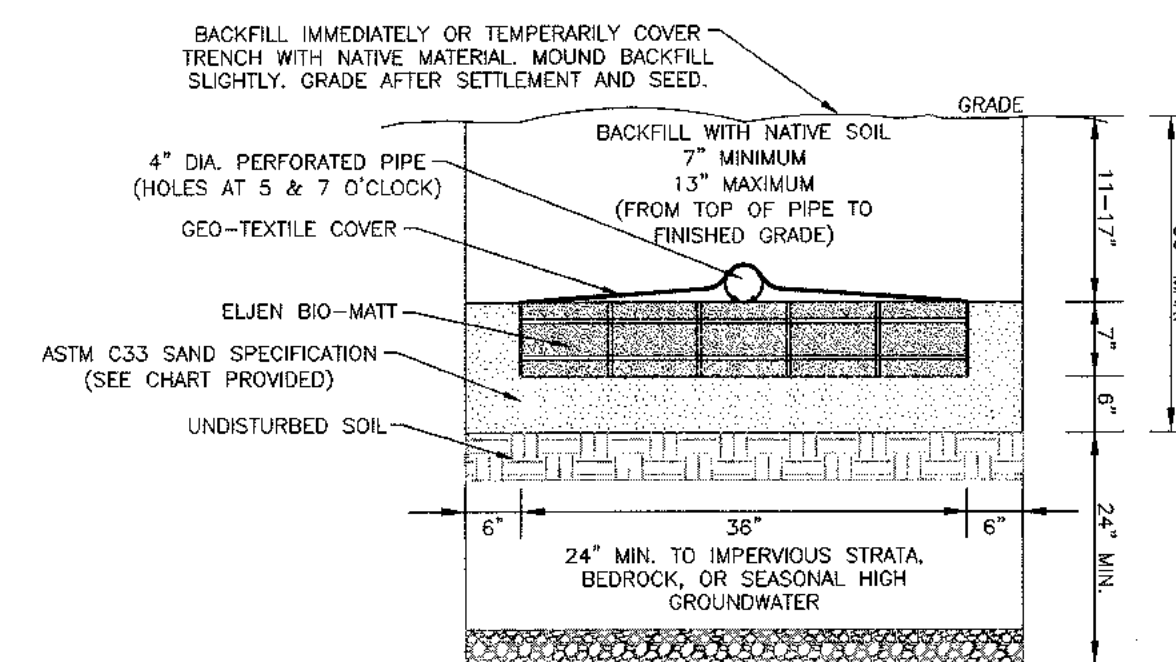


- NOTES:**
- ABSORPTION FIELDS SHALL NOT BE BUILT UNDER DRIVEWAYS, PARTS OF BUILDINGS, OR UNDER ABOVE GROUND POOLS, OR OTHER AREAS SUBJECT TO HEAVY LOADINGS.
 - THE SAND BEDDING SHALL BE COVERED WITH THE GEOTEXTILE FABRIC PROVIDED WITH EACH UNIT.
 - TRENCHES SHALL NOT BE CONSTRUCTED IN WET SOIL.
 - SIDES AND BOTTOM OF TRENCH SHALL BE BAKED IMMEDIATELY PRIOR TO PLACING SAND.
 - THE END OF ALL DISTRIBUTOR PIPES SHALL BE PLUGGED.
 - HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE FIELD EXCEPT FOR ACTUAL CONSTRUCTION OF THE FIELD. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE AREA OF THE PROPOSED FIELD, BEFORE OR AFTER CONSTRUCTION.
 - DISTRIBUTION LATERALS SHALL BE SLOPED AT 1/16"-1/32" PER FOOT.
 - ABSORPTION TRENCH BOTTOM TO BE SET LEVEL.
 - DISTRIBUTION LATERALS ARE TO BE SET WITH PERFORATIONS FACING DOWN.

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

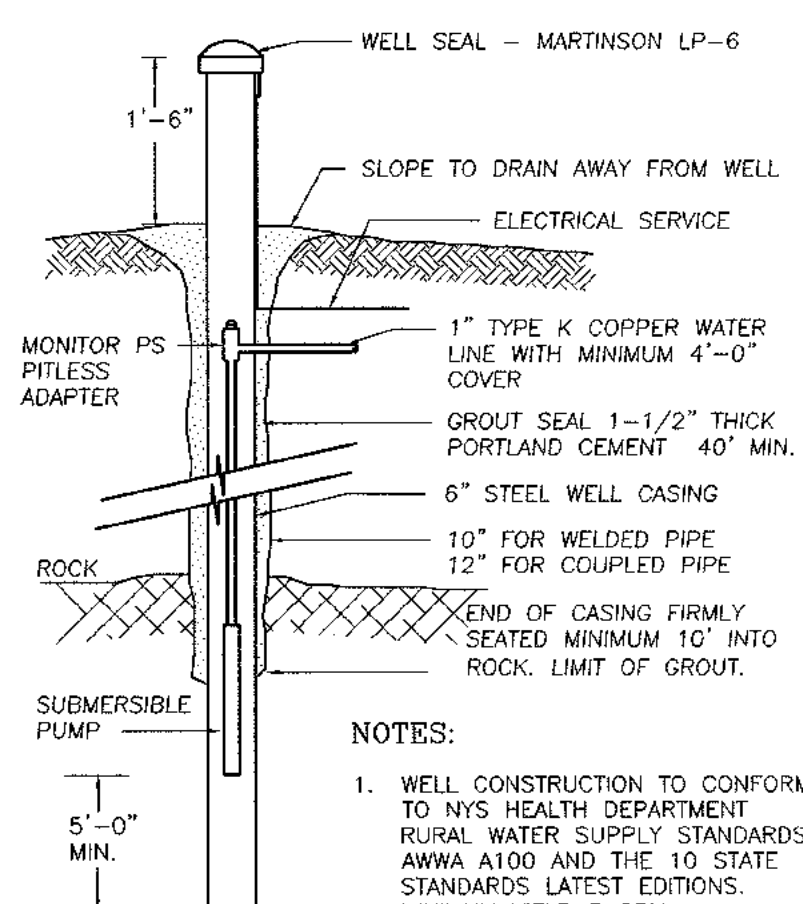


CLEANOUT DETAIL
N.T.S.



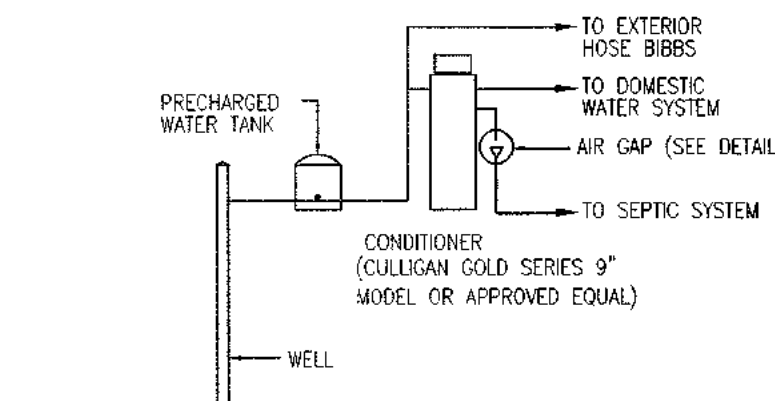
SIEVE SIZE	SIEVE SQUARE OPENING SIZE	SPECIFICATION % PASSING (WET SIEVE)
0.375"	9.5 mm	100.0 - 100.0
#4	4.75 mm	95.0 - 100.0
#8	2.36 mm	80.0 - 100.0
#16	1.18 mm	50.0 - 85.0
#30	600 µm	25.0 - 60.0
#50	300 µm	5.0 - 30.0
#100	150 µm	< 10.0
#200	75 µm	< 5.0

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



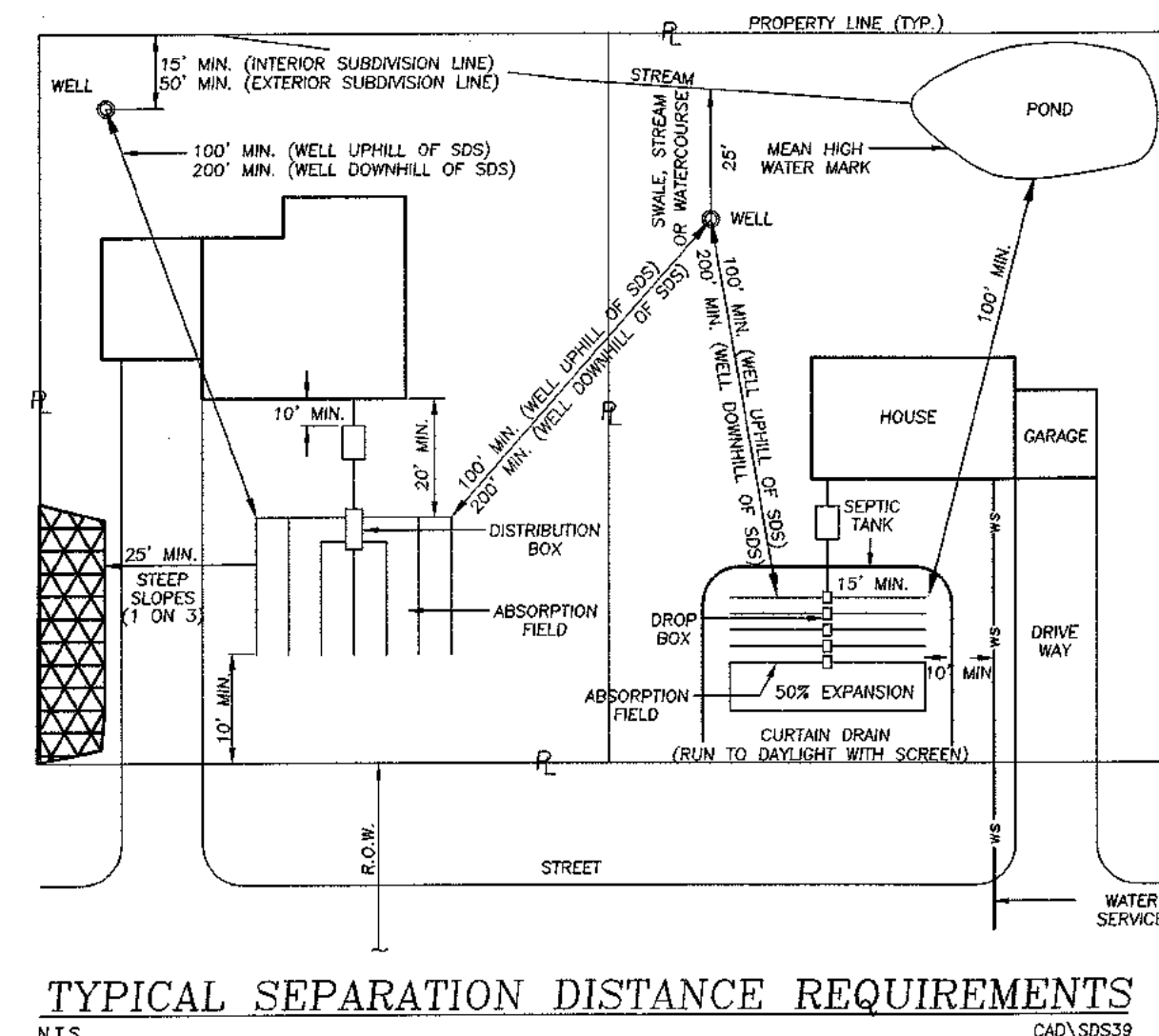
WELL DETAIL
N.T.S.

- NOTES:**
- WELL CONSTRUCTION TO CONFORM TO NYS HEALTH DEPARTMENT RURAL WATER SUPPLY STANDARDS, AWWA A100 AND THE 10 STATE STANDARDS LATEST EDITIONS.
 - MINIMUM YIELD 5 GPM.
 - INSTALL TOP OF CASING MINIMUM 24" ABOVE THE 100 YEAR FLOOD LEVEL.
 - ANTICIPATED DEPTHS OF WELL CASINGS ARE 40' AND THROUGH BEDROCK.
 - DIAMETER OF DRILL HOLES TO BE 10"-12" THROUGH OVERBURDEN, AND 6" THROUGH ROCK.
 - IF WATER IS ENCOUNTERED AT A DEPTH OF LESS THAN 50 FEET, THE MINIMUM CASING AND REQUIREMENT SHALL BE 50 FEET.



- NOTES:**
- THE INSTALLATION IS OPTIONAL AND AT THE DISCRETION OF THE HOMEOWNER. INSTALLATION IS ONLY TO BE CONSIDERED IF WELL HARDNESS PROVES TO BE IN EXCESS OF 150 mg/L. IRON LEVELS ARE IN EXCESS OF 0.3 mg/L (MAXIMUM CONTAMINANT LEVEL (MCL)). MANGANESE LEVEL ARE IN EXCESS OF 0.3 mg/L (MCL), OR IRON AND MANGANESE LEVEL ARE IN EXCESS OF 0.5 mg/L (MCL).
 - REMOVING HARDNESS AND/OR IRON & MANGANESE BY ION EXCHANGE INCREASES THE SODIUM CONTENT OF WATER AT A RATE OF 46 mg/L OF SODIUM FOR EACH 100 mg/L (6 GRAINS/GAL) OF HARDNESS REMOVED.
 - IF INSTALLED, IT MUST BE ACCORDING TO THIS APPROVED DESIGN.
- A. EXISTING CONDITIONS**
N/A MG/L (WORST CASE BASED ON WATER SAMPLES COLLECTED)
1 GR./GAL. = 17.1 MG/L
THEREFORE N/A MG/L / 17.1 = N/A GR./GAL.
- B. EXCHANGE CAPACITY**
EXCHANGE CAPACITY @ SALT DOSAGE/RECHARGE = 19,086 GRAINS @ 4 LB
EXISTING CONDITION = N/A GR./GAL.
ASSUME ALL LOTS HAVE 4 BEDROOMS.
110 GPD/BEDROOM X 4 BEDROOMS = 440 GPD
=> 440 GPD X N/A GR./GAL. = N/A GRAINS/DAY
=> 19,086 GRAINS / N/A GR./DAY = N/A DAYS ==> SAY 3 DAYS
- C. BACKWASH**
35 GALLONS PER BACKWASH AS PER CULLIGAN SPECIFICATION
CALCULATE SDS AS 1 WASH PER DAY
ALL LOTS:
35 GAL/DAY IN BACKWASH

**WATER CONDITIONER SCHEMATIC
AND DESIGN TABLES**
N.T.S.



TYPICAL SEPARATION DISTANCE REQUIREMENTS
N.T.S.

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. 7 OF 7.

DATE	DESCRIPTION	INITIALS
8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JAP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JAP
11-9-19	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	JAP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	NWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	NWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NWR
6-18-15	REVISED PER PB COMMENTS	NWS
8-4-14	REVISED ENTRANCE	JAP
6-18-14	ORIGINAL PREPARATION DATE	JAP

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

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
CROTON, NEW YORK 10524
(914) 234-0806

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(914) 736-4646

JOSEPH J. PIETZAK P.E.
LICENSE NO. 050645

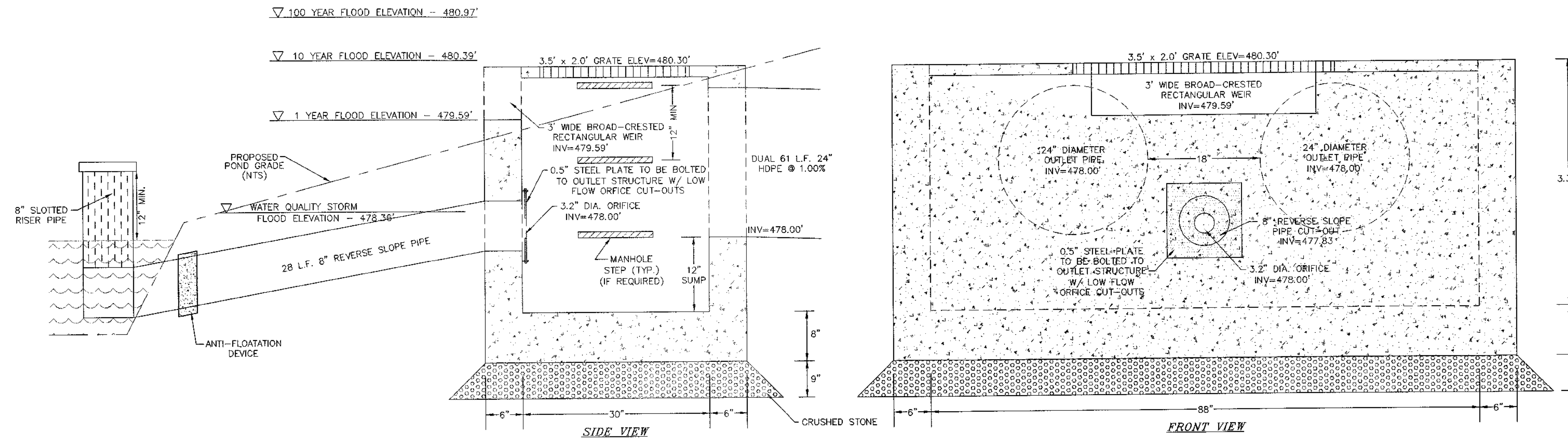
EDWARD P. CHERIAN P.L.S.
LICENSE NO. 050322

VINCENT A. PIETRZAK P.E., L.S. LEADCAP
P.E. LICENSE NO. 076808 P.L.S. LICENSE NO. 050075
N.Y.P.L.S. LICENSE NO. 35306

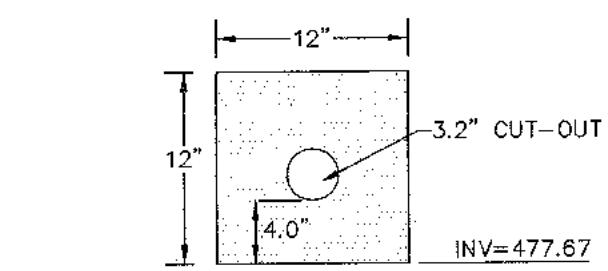
SIGNATURE DATE

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

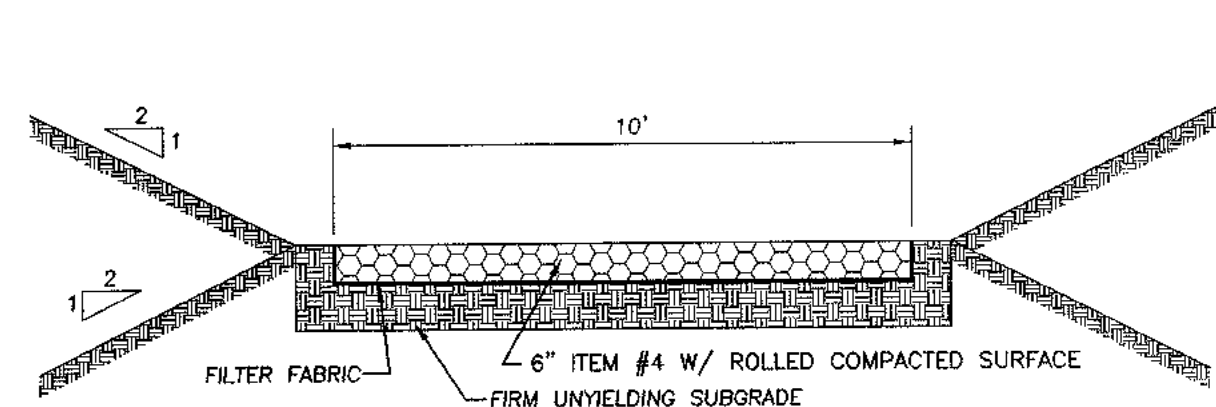
O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
7 OF 7	N/A OF N/A	16 OF 17
SCALE	CAD REFERENCE	PROJECT NUMBER
AS SHOWN	WORKING R1	14118.01



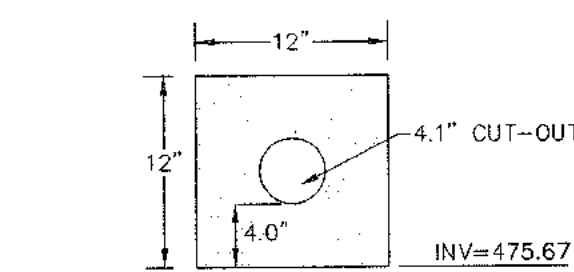
PROPOSED OUTLET STRUCTURE 3P DETAIL
N.T.S.



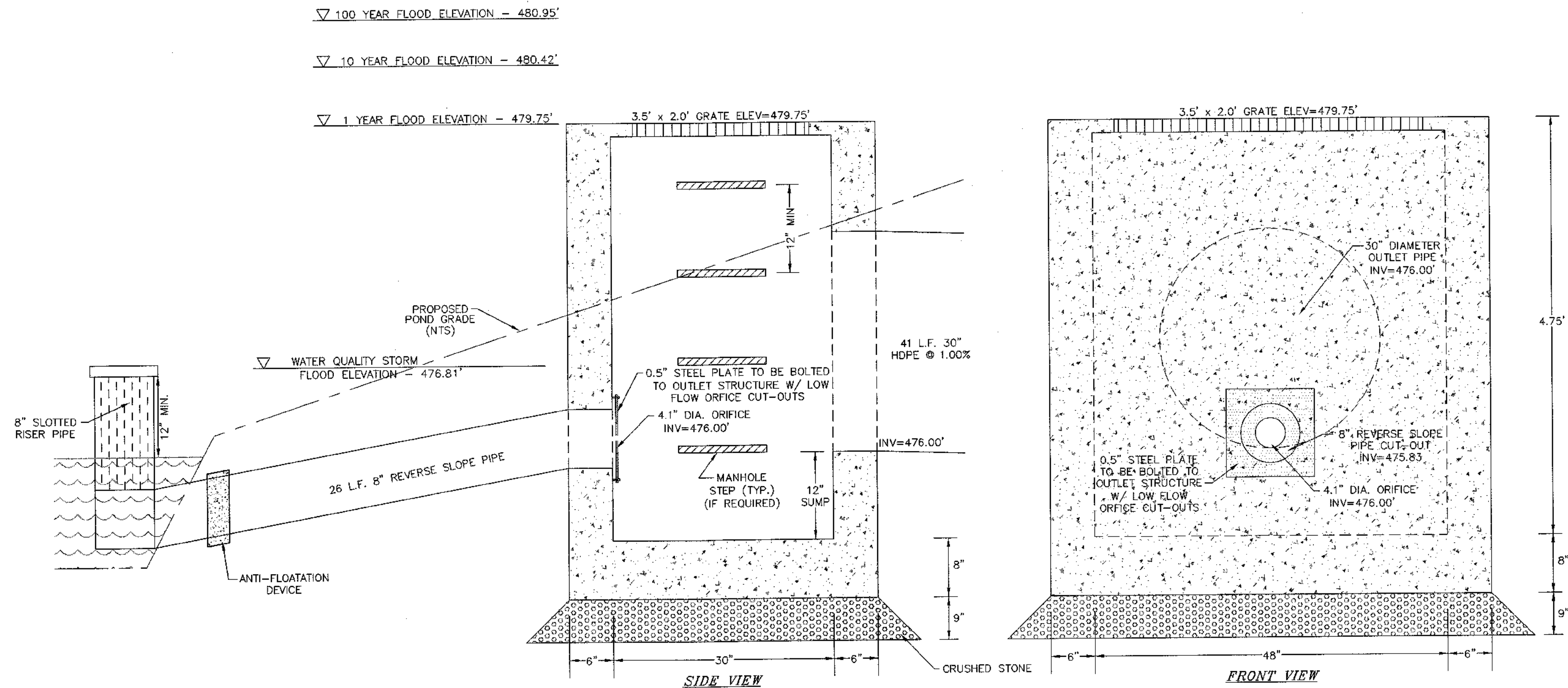
NOTES:
1. STEEL PLATE IS TO BE 0.5\"/>



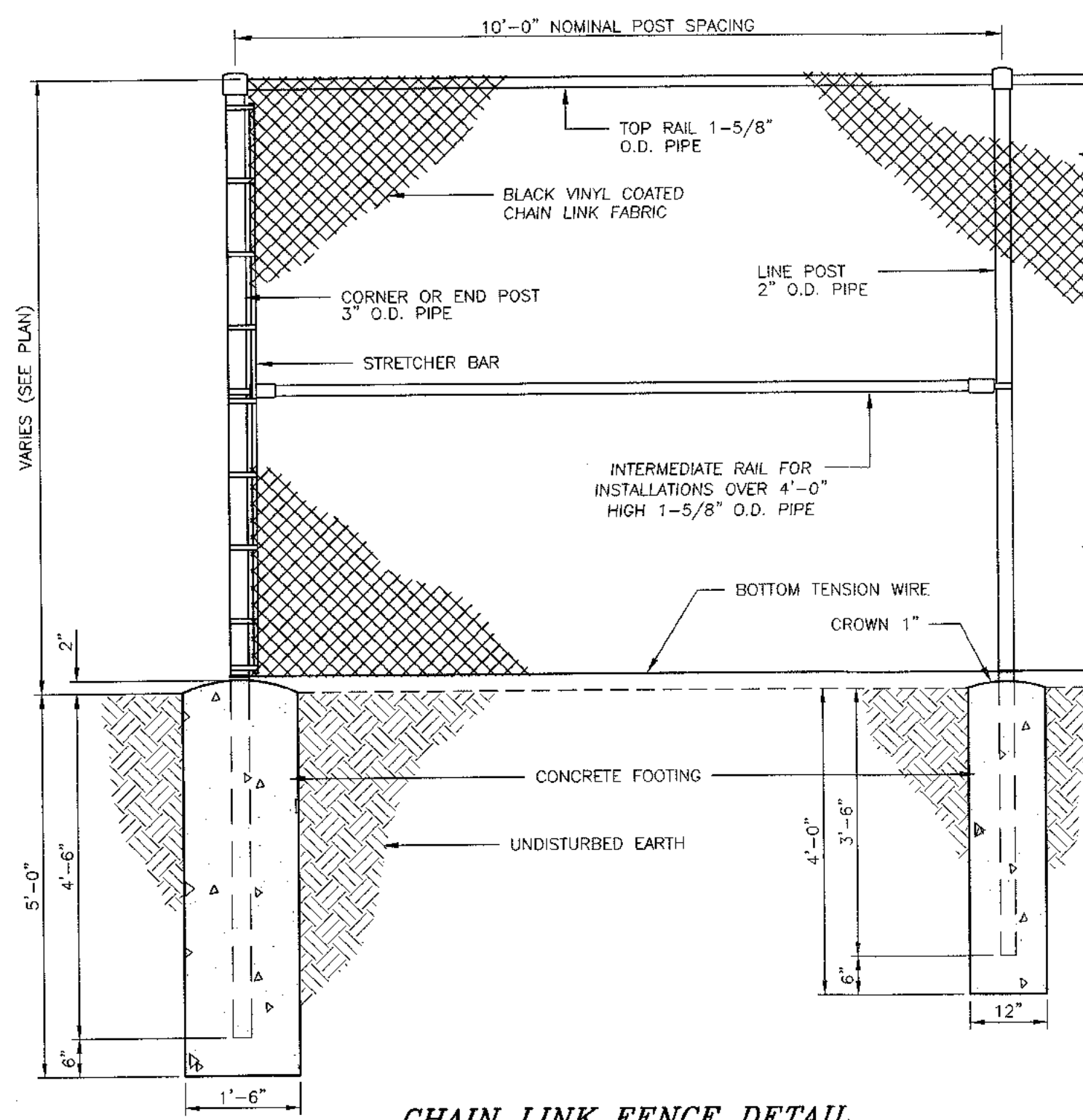
STABILIZED DETENTION POND ACCESS DRIVE DETAIL
N.T.S.



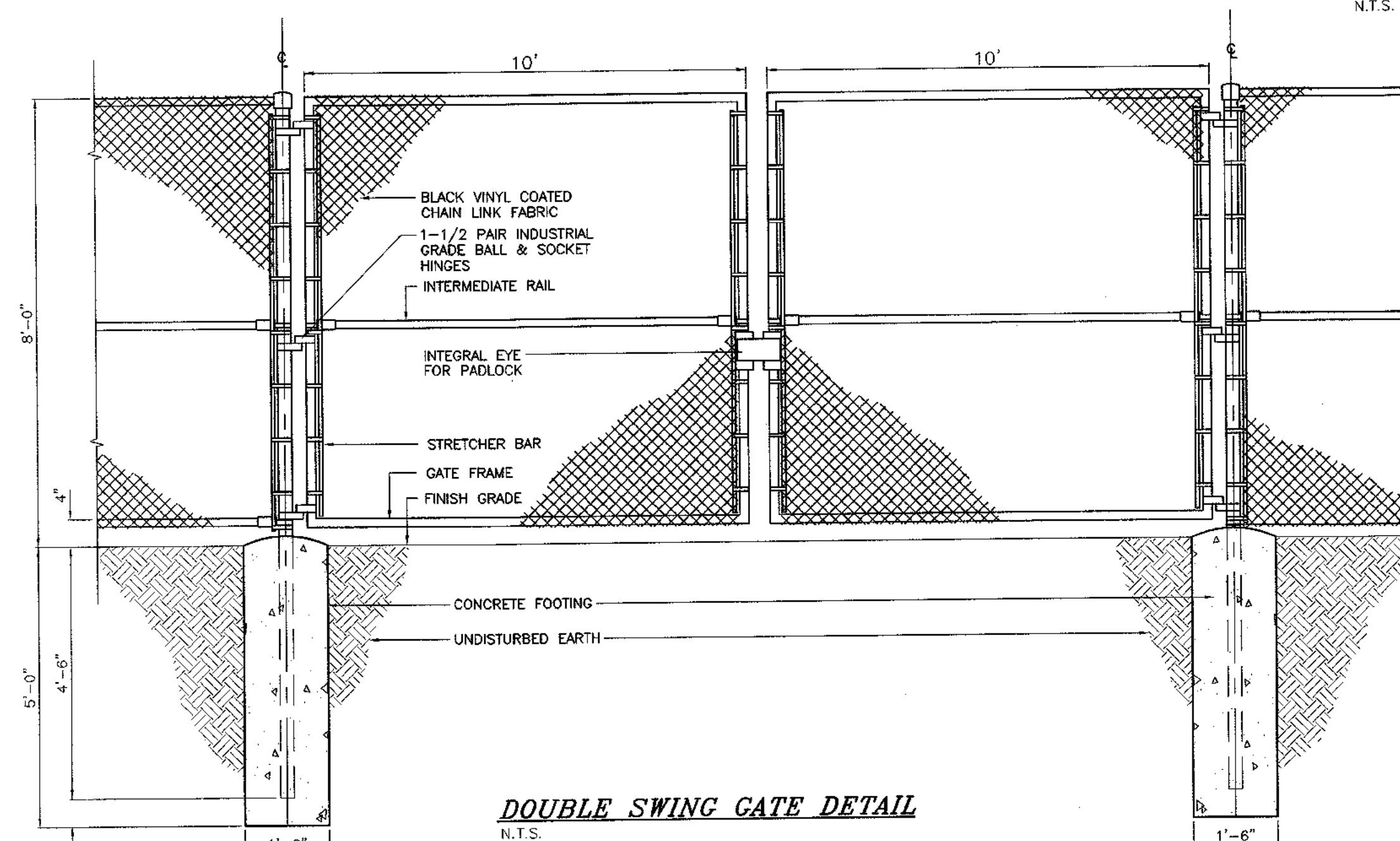
PROPOSED STEEL PLATE W/ LOW FLOW ORIFICE CUTOUT FOR OUTLET STRUCTURE 4P
N.T.S.



PROPOSED OUTLET STRUCTURE 4P DETAIL
N.T.S.



CHAIN LINK FENCE DETAIL
N.T.S.



DOUBLE SWING GATE DETAIL
N.T.S.

DATE	DESCRIPTION	INITIALS
8-2-23	REVISIONS AS PER UPDATED WETLAND DELINEATION	JJP
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JJP
1-9-19	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	JJP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-15	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JJP
6-16-14	ORIGINAL PREPARATION DATE	JJP
DATE	DESCRIPTION	INITIALS

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC

282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 294-0006

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4846

JOSEPH J. PFAU P.E.
LICENSE NO. 068945

MICHAEL T. CROGAN P.L.S.
LICENSE NO. 650323

VINCENT A. PIETRZAK P.E., P.L.S. 12000-AP
P.E. LICENSE NO. 078938 (P.L.S. LICENSE NO. 650075)
N.Y.P.L.S. LICENSE NO. 55396

SIGNATURE _____ DATE _____

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

PROJECT TITLE
STORMWATER DETAILS

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

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 17 OF 17
SCALE AS SHOWN	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01