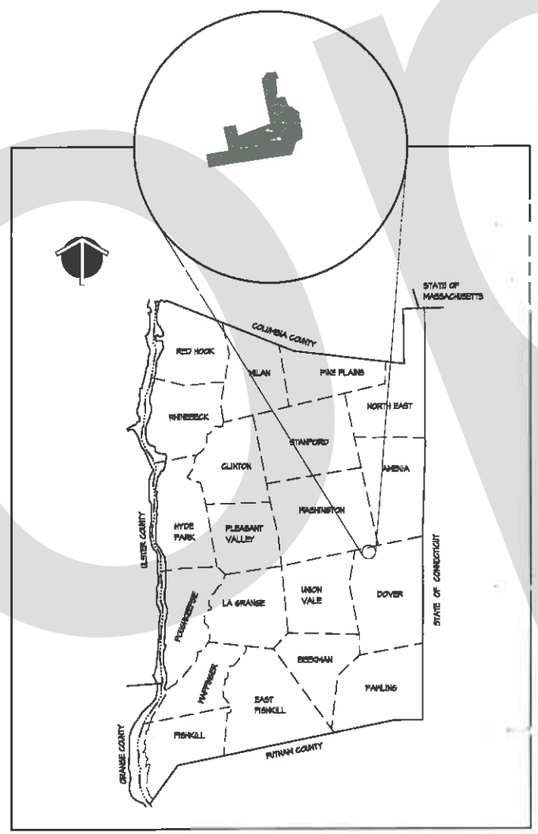
PROPOSED SITE PLAN PREPARED FOR:

STONY BROOK ESTATES

N.Y.S. ROUTE 22
TOWN OF DOVER
DUTCHESS COUNTY, NEW YORK



LOCATION MAP

RECEIVED
JAN 25 2013

DRAWING SCHEDULE

DRAWING NO.	SHEET NO.	DRAWING TITLE
C-010	1	COVER SHEET
C-110	2	EXISTING CONDITIONS PLAN
C-120	3	SITE LAYOUT PLAN
C-121	4	SUBDIVISION PLAT
C-130	5	GRADING, DRAINAGE AND UTILITY PLAN
C-131	6	SIGHT LAYOUT PLAN
C-140	7	EROSION AND SEDIMENT CONTROL PLAN
C-141	8	EROSION AND SEDIMENT CONTROL PLAN
C-142	9	EROSION AND SEDIMENT CONTROL PLAN
C-150	10	LANDSCAPING AND LIGHTING PLAN
C-210	11	ROAD & UTILITY PROFILES
C-211	12	SEPTIC PROFILES
C-510	13	DETAILS
C-520	14	DETAILS
C-530	15	DETAILS
C-540	16	DETAILS
C-550	17	DETAILS
C-560	18	DETAILS

OWNER / APPLICANT

RANDALLO, INC.
1155 BERNANO AVENUE
SARASOTA, FL 34236

DOVER PLANNING BOARD APPROVAL

APPROVAL HEREBY GRANTED THIS _____ DAY OF _____ 20____. IF BUILDING PERMIT IS NOT ISSUED WITHIN _____ MONTHS FROM THE ABOVE DATE THE APPROVAL BECOMES NULL AND VOID.

TOWN OF DOVER PLANNING BOARD

SIGNED THIS _____ DAY OF _____

BY _____
CHAIRMAN

BY _____
SECRETARY

MICHAEL J. BUDZINSKI, P.E.
CONSULTING ENGINEER
54 MAHANUS ROAD SOUTH, PATTERSON, NEW YORK 12563
(845) 878-2226

REVISIONS

NO.	DATE	DESCRIPTION
3	JAN. 26, 2007	REVISED PER TE
5	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER TE
3	FEB. 04, 2008	REVISED PER SUBMISSION
5	MAR. 28, 2008	REVISED PER DEC. & LEAD
6	JUN. 26, 2008	REVISED PER TE
7	OCT. 01, 2008	REVISED PER TE
8	NOV. 03, 2008	REV. TAX MAP NO / SUB. TO TOWN FOR RE-APPROVAL
4	FEB. 18, 2010	ADDED SHEET NAME

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7058-00-443413 LOT 4
TAX MAP 7058-00-943863 LOT 12

DATE: 10-29-2008
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: COVER SHEET

PROJECT NUMBER: 7148

DRAWING NUMBER: C-010

SHEET 1 OF 18

COPY

SOILS LEGEND

SOIL SYMBOL	SOIL GROUP	SOIL NAME
CaC	B	CHARLTON LOAM, 8 TO 15 PERCENT SLOPES
CaD	B	CHARLTON LOAM, 15 TO 25 PERCENT SLOPES, VERY STONY
CrD	B	CHARLTON-CHATFIELD COMPLEX, HILLY, ROCKY
GuA	B	COPAKE GRAVELLY SILT LOAM, NEARLY LEVEL
GuB	B	COPAKE GRAVELLY SILT LOAM, UNDULATING
GuC	B	COPAKE GRAVELLY SILT LOAM, ROLLING
GwA	B	COPAKE CHANNERY SILT LOAM, FAN, 0 TO 3 PERCENT SLOPES
HoD	C/D	HOLLIS-CHATFIELD-ROCK OUTCROP COMPLEX, HILLY
HoF	C/D	HOLLIS-CHATFIELD-ROCK OUTCROP COMPLEX, VERY STEEP
Hy	C/D	HAYLAND SILT LOAM

GENERAL NOTES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN ENTITLED "SURVEY MAP PREPARED FOR LEE J. SPENCER AND WALLACE B. SPENCER" LAST REVISED DECEMBER 14, 2001.

   THE VERTICAL DATUM: NEAR NATIONAL GEODETIC SURVEY STANDARD VERTICAL DATUM OF NGR. 2 FOOT CONTOUR INTERVAL.

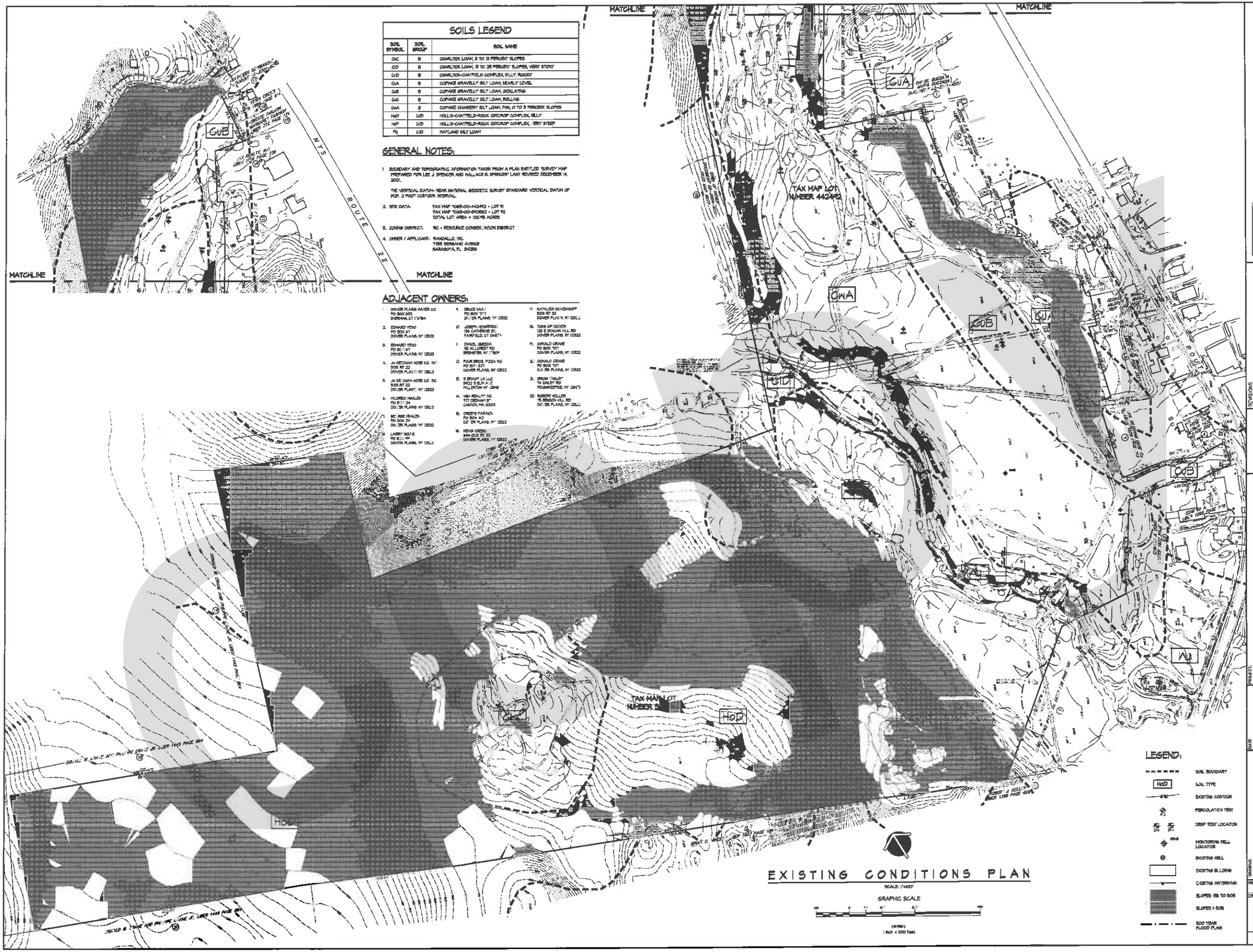
2. SITE DATA: TAX MAP 7068-00-442462 - LOT 11
   TAX MAP 7068-00-542662 - LOT 12
   TOTAL LOT AREA = 100.15 ACRES

3. ZONING DISTRICT: RC - RESOURCE CONSERVATION DISTRICT

4. OWNER / APPLICANT: RANDALLO, INC.
   7188 BERBAND AVENUE
   SARASOTA, FL 34238

ADJACENT OWNERS:

1. DOVER PLAINS WATER CO.
   PO BOX 693
   SHERMAN, CT 06784
2. EDWARD VENO
   PO BOX 97
   DOVER PLAINS, NY 12522
3. EDWARD VENO
   PO BOX 97
   DOVER PLAINS, NY 12522
4. JN KEEGHAN HOSE CO. INC.
   3155 RT 22
   DOVER PLAINS, NY 12522
5. JN KEEGHAN HOSE CO. INC.
   3155 RT 22
   DOVER PLAINS, NY 12522
6. MILDRED WHALEN
   PO BOX 24
   DOVER PLAINS, NY 12522
7. BERNIE WHALEN
   PO BOX 24
   DOVER PLAINS, NY 12522
8. LARRY NOYES
   PO BOX 44
   DOVER PLAINS, NY 12522
9. BRUCE HAAS
   PO BOX 101
   DOVER PLAINS, NY 12522
10. JOSEPH HENDERSON
    164 CATHERINE ST.
    FAIRFIELD, CT 06824
11. DANIEL GUERRA
    30 MILLBREST RD
    BRONXVILLE, NY 10804
12. FOUR BROS. PIZZA INC
    PO BOX 221
    DOVER PLAINS, NY 12522
13. S BRADY LILLIS
    9402 S ELM AVE
    HULBERTON, OK 74548
14. VSH REALTY INC
    777 DEDHAM ST
    CANTON, MA 02021
15. CRESTS FARINA
    PO BOX 412
    DOVER PLAINS, NY 12522
16. KENYA GREGO
    844 OLD RT 22
    DOVER PLAINS, NY 12522
17. KATHLEEN SCHIBANOFF
    3225 RT 22
    DOVER PLAINS, NY 12522
18. TOWN OF DOVER
    126 E DUNCAN HILL RD
    DOVER PLAINS, NY 12522
19. DONALD CRANE
    PO BOX 701
    DOVER PLAINS, NY 12522
20. DONALD CRANE
    PO BOX 701
    DOVER PLAINS, NY 12522
21. BRIAN TINGLEY
    74 DALEY RD
    POUGHKEEPSIE, NY 12603
22. ROBERT KOLLER
    75 BRIGGS HILL RD
    DOVER PLAINS, NY 12522



EXISTING CONDITIONS PLAN
SCALE: 1"=100'

MICHAEL J. BUDZINSKI, P.E.
CONSULTING ENGINEER
54 McMANUS ROAD SOUTH, PATTERSON, NEW YORK 12563
(845) 878-2226

REVISIONS:		
NO.	DATE	DESCRIPTION
1	JAN. 04, 2007	REVISED PER TB
2	SEP. 07, 2007	REVISED FOR TOWN PLANNING BOARD
3	DEC. 04, 2007	REVISED PER TB
4	DEC. 17, 2008	REVISED PER TB
5	JULY 15, 2009	REVISED PER TB
6	JAN. 25, 2009	REVISED PER DOJ & DPW
7	OCT. 01, 2009	REVISED PER TB
8	NOV. 09, 2009	REV. TAX MAP NO / SB, 12 TOWN FOR RE-APPROVAL
9	FEB. 8, 2010	ADDED STREET NAME

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7068-00-442462 LOT 11
TAX MAP 7068-00-542662 LOT 12

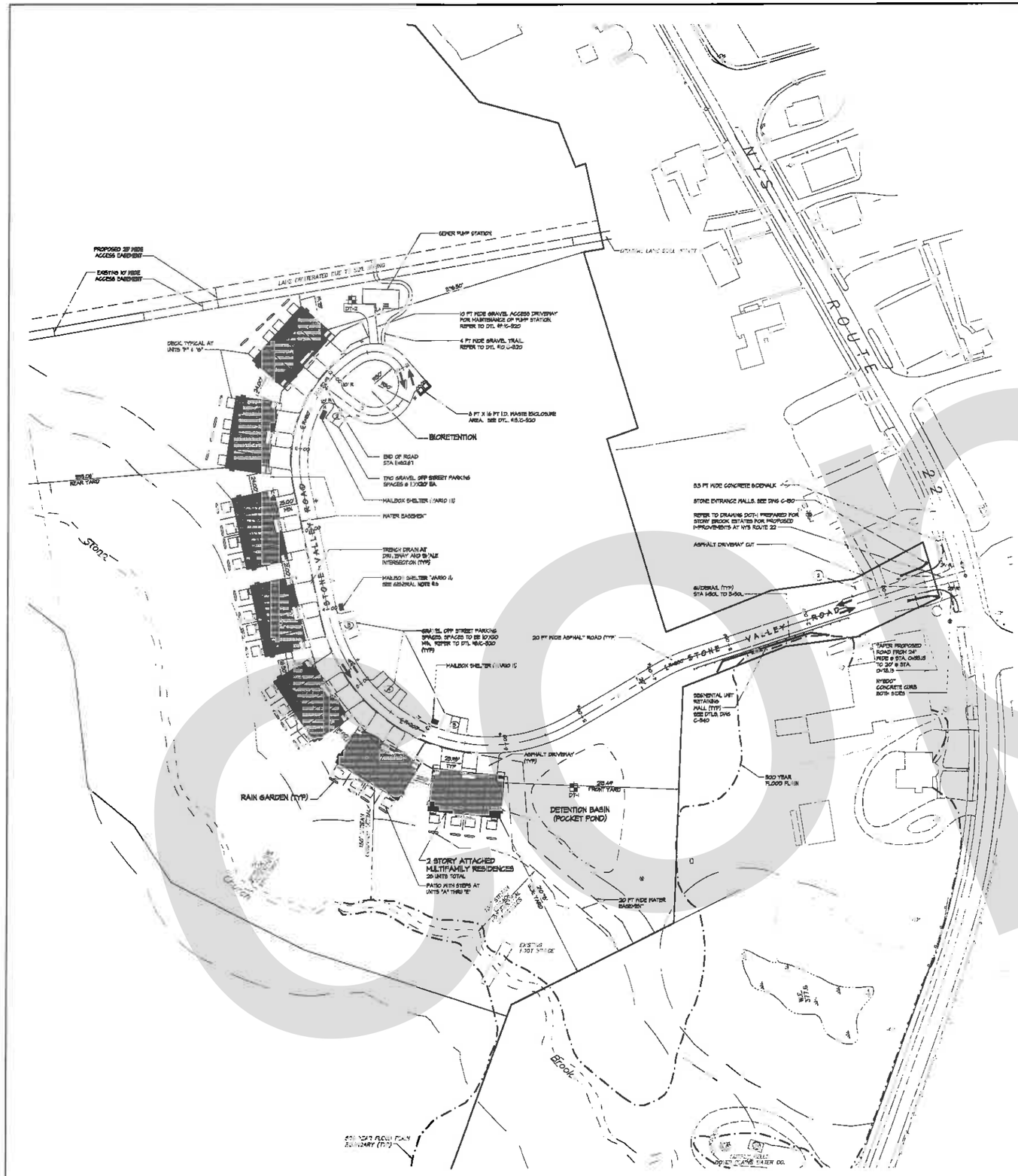
DATE	07-29-2002
PROJECT MANAGER	MJB
DRAWN BY	MJB
CHECKED BY	MJB
SCALE	AS NOTED

DRAWING: EXISTING CONDITIONS PLAN

PROJECT NUMBER: 7148

DRAWING NUMBER: C-110

SHEET 3 OF 16

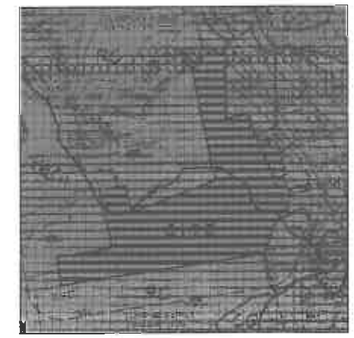


SITE LAYOUT PLAN

SCALE: 1"=50'

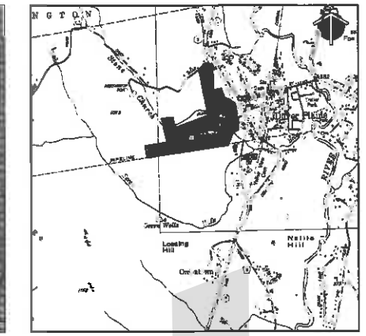
GRAPHIC SCALE

(IN FEET)
1 inch = 50 feet



AREA MAP

SCALE: 1"=800'



VICINITY MAP

SCALE: 1"=2000'

GENERAL NOTES:

1. BOUNDARY INFORMATION TAKEN FROM A PLAN ENTITLED "SURVEY MAP PREPARED FOR LEE J. SPENCER AND WALLACE E. SPENCER" LAST REVISED DECEMBER 14, 2001.

   TOPOGRAPHIC INFORMATION FROM AERIAL PHOTOGRAMETRY.
2. SITE DATA: TAX MAP 7065-00-442412 - LOT #1
   TAX MAP 7065-00-942842 - LOT #2
   TOTAL LOT AREA = 100.73 ACRES
3. OWNER / APPLICANT: RANDALLO, INC.
   7106 BERGAMO AVENUE
   SARASOTA, FL 34238
4. PROPOSED USE: RESIDENTIAL MULTI-FAMILY DWELLINGS
5. PROPOSED NUMBER OF DWELLINGS: 20
6. WATER SUPPLY: DOVER PLAINS WATER COMPANY
   SEWER SER. TCE: ON-SITE COMMON SEWAGE DISPOSAL SYSTEM
7. ALL UTILITIES INCLUDING ELECTRIC, TELEPHONE AND CABLE T.V. SHALL BE INSTALLED UNDERGROUND AND IN CONFORMANCE WITH ALL LOCAL CODES / AND UTILITY COMPANY REQUIREMENTS.
8. ALL ROADS AND STREETS SHOWN HEREON SHALL BE OWNED AND MAINTAINED BY A HOMEOWNER'S ASSOCIATION.
9. ALL UTILITY EASEMENTS SHOWN ARE TO BE PROVIDED TO THE SATISFACTION OF THE TOWN ATTORNEY.
10. THE STORMWATER BASINS ARE PROPOSED TO BE MAINTAINED AND OWNED BY THE HOMEOWNER'S ASSOCIATION.
11. THERE ARE NO REGULATED WETLANDS ON THE PROJECT SITE. THERE ARE NO 100 YEAR FLOOD BOUNDARIES ON THE PROJECT SITE. THE FLOOD BOUNDARY SHOWN ON THE PLAN IS THE ZONE B 500-YEAR BOUNDARY TAKEN FROM FEMA COMMUNITY-PANEL NUMBER 360555 0005 A.
12. ALL TRAFFIC CIRCULATION IS TWO WAY, UNLESS NOTED OTHERWISE.
13. ALL EXTERIOR LIGHTING TO BE INSTALLED SHALL BE DOWNWARD DIRECTED AND SHALL NOT RESULT IN LIGHT SPILLING OFF THE SITE. POLE MOUNTED LIGHTING SHALL BE INSTALLED WITH CUT-OFF LUMINAIRES.
14. PER NEW YORK STATE LAW, THE CONTRACTOR SHALL CALL THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFPO) AT 1-800-962-7962 TWO (2) FULL DAYS PRIOR TO PERFORMING ANY EXCAVATION WORK.
15. THERE ARE NO AREAS PROPOSED TO BE USED FOR OUTDOOR SELLING, DISPLAY OR STORAGE
16. MAILBOX SHELTERS SHALL BE VARIO 4G MAIL SHELTER KITS AS MANUFACTURED BY FLORENCE MANUFACTURING CO. (800) 275-1141. MODEL AS NOTED ON PLAN.

DIMENSIONAL TABLE

RC - RESOURCE CONSERVATION DISTRICT	REQUIRED	PROVIDED
MIN. LOT SIZE (AC.)	N/A	N/A
MAX. DENSITY *	2 AC/DU	0.8 AC/DU
MIN. ROAD FRONTAGE (FT.) PRIVATE ROAD	100	644
MIN. FRONT YARD SETBACKS (FT.) PRIVATE/TOWN ROAD	40	N/A
COUNTY/STATE ROAD	60	213
MIN. SIDE YARD SETBACK (FT.)	50	210
MIN. REAR YARD SETBACK (FT.)	50	350
MAX. SURFACE COVERAGE (%)	10%	1.6%
MAX. HEIGHT (FT.)	35	1 35
MAX. FOOTPRINT (SQ. FT.)	N/A	N/A
PERMANENT OPEN SPACE (%)	50%	83%

* - FLEXIBLE REQUIREMENTS PER 145-60
N/A = NOT APPLICABLE

OFF-STREET PARKING & LOADING

OFF-STREET PARKING PER CHAPTER 145-50.

MULTIFAMILY DWELLINGS:

1 1/2 PARKING SPACES PER DWELLING UNIT:

1 1/2 X 28 DWELLING UNITS = 42 SPACES

TOTAL SPACES REQUIRED: 42
TOTAL SPACES PROVIDED: 56 (28 [illegible] DRIVEWAYS)

OFF-STREET LOADING: N/A

SITE LAYOUT LEGEND:

- SIGN WITH DESIGNATION/LOCATION NUMBER (REFER TO DETAIL SHEET C-520)
- CURB
- RETAINING WALL
- GUIDERAIL
- FENCE
- LIGHT POLE
- TRAFFIC DIRECTIONAL ARROW

MICHAEL J. BUDZINSKI, P.E.
CONSULTING ENGINEER
191 McMANUS ROAD SOUTH, PATTERSON, NEW YORK 12563
(845) 878-2226

REVISIONS		
NO.	DATE	DESCRIPTION
1	JUNE 14, 2007	REVISED PER SEE
2	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
3	DEC. 04, 2007	REVISED PER TE
4	FEB. 8, 2008	REVISED PER TE
5	MAR. 31, 2008	REVISED PER TE & DOD
6	OCT. 07, 2008	REVISED PER TE
7	NOV. 05, 2008	REV. TAX MAP PB / SEE TO TOWN FOR RE-APPROVAL
8	FEB. 9, 2010	ADDED STREET NAME

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN OF DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7065-00-442412 LOT #1
TAX MAP 7065-00-942842 LOT #2

DATE: 09-29-2005
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

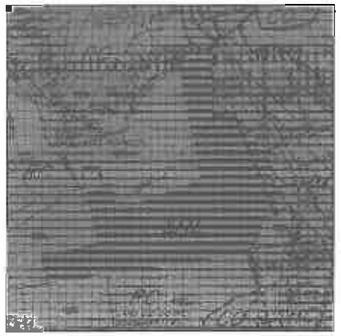
DRAWING: SITE LAYOUT PLAN

PROJECT NUMBER: 7348

DRAWING NUMBER: C-120

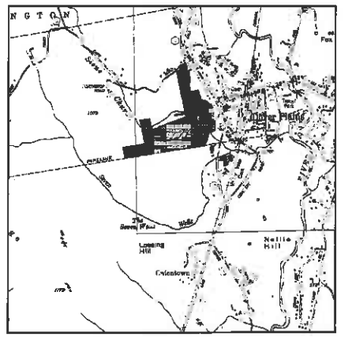
SHEET 3 OF 15

COPY



AREA MAP

SCALE: 1"=800'



VICINITY MAP

SCALE: 1"=3000'

TOWN PLANNING BOARD
TOWN OF DOVER

THE DIRECTOR OF THE TOWN PLANNING BOARD HAVE CONFERRED WITH THE PROPONENT OF THE LAND SUBDIVISION REGULATIONS. THE PLANNING BOARD, AFTER ONE NOTICE AND A PUBLIC HEARING HELD ON _____ AS REQUIRED BY ARTICLE 16, SECTION 276, OF THE TOWN LAW OF THE STATE OF NEW YORK, HAS APPROVED THE FINAL PLAT AS SUBMITTED.

CHAIRMAN, TOWN PLANNING BOARD — DATE

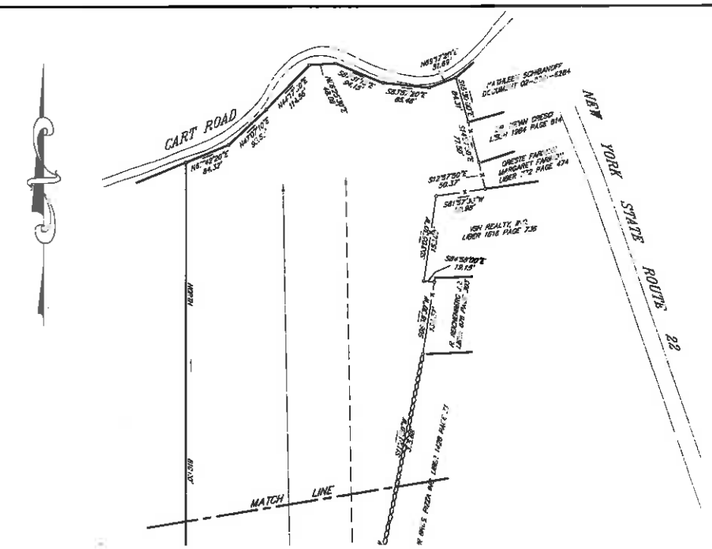
OWNERS CERTIFICATION

I/WE UNDERSIGNED _____ OWNER OF THE PROPERTY SHOWN STATES THAT HE IS FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS USE OF AND HEREBY CONSENTS TO ALL SUBDIVISIONS AND DEDICATIONS SHOWN HEREON AND TO THE FILING OF THIS SAID MAP IN THE DUTCHESS COUNTY CLERKS OFFICE.

OWNERS SIGNATURE — DATE

I HEREBY CERTIFY THAT THIS SURVEY MAP WAS COMPLETED ON OCTOBER 23, 2000 AS S-17 THIS SURVEY MAP WAS MADE BY ME OR UNDER MY DIRECTION.

BRIAN W. TROSTLE — L.S. NO. 050081



LEGEND

TOP PHYSICAL BOUNDARY	
WIRE FENCE	x x
STONE FENCE	

"REMARKS"

1. A WAIVER IS REQUESTED FROM SECTION 125-17-C-E FOR TOPOGRAPHY AT A 200' OR NOT MORE THAN A 100' AS EXISTING 2 FOOT CONTOURS ARE SHOWN ON THE SITE LAYOUT PLAN.

2. A WAIVER IS REQUESTED FROM SECTION 125-17-J AND K AND SECTION 125-18-B, D, E, F AND H AS THIS INFORMATION IS PROVIDED ON THE SITE LAYOUT PLAN.

"NOTES"

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 NEW YORK STATE EDUCATION LAW.

SURVEYED FROM RECORD DESCRIPTION AND AS TO POSSESSION.

SURVEY SUBJECT TO ANY ASSERTION, TITLE OR INTEREST THE PUBLIC MAY HAVE FOR PUBLIC USE.

SUB-SURFACE STRUCTURES, UTILITIES OR REALTY APPURTENANCES ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.

SUBJECT TO ANY UTILITY EASEMENTS OF RECORD.

SUBJECT TO THE FINDINGS OF AN ACCURATE ABSTRACT OF TITLE.

REFERENCE DOCUMENT: 02-8-28-531

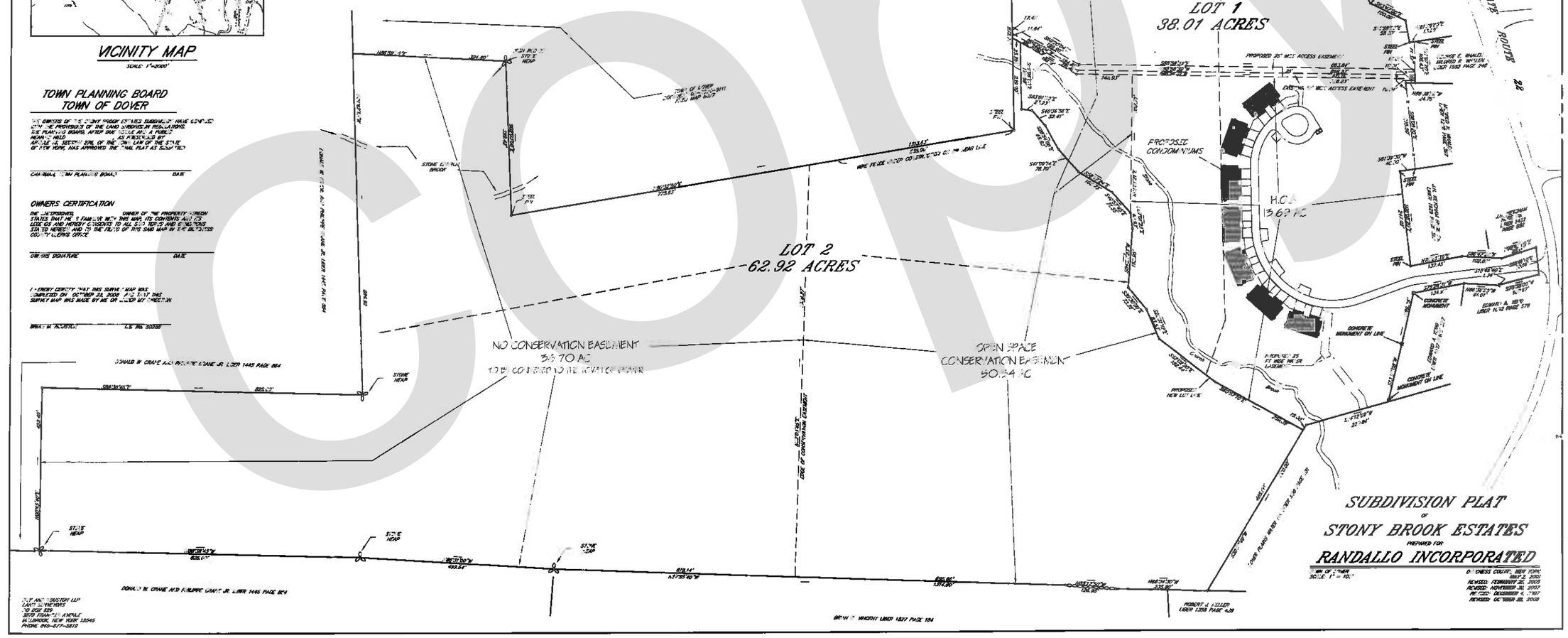
TAX GRID NO.: 133800-7152-00-442492
133800-7152-00-392283

FOR CONSTRUCTION DRAWINGS, REFER TO PLANS PREPARED BY MICHAEL J. BUDISTOF, P.E. ON FILE AT THE TOWN OF DOVER

DIMENSIONAL TABLE

RC - RESOURCE CONSERVATION DISTRICT	REQUIRED	PROPOSED
MIN. LOT SIZE (AC.)	N/A	10/A
MAX. DENSITY *	3 AC/DU	2.6 AC/DU
MIN. ROAD FRONTAGE (FT.) PRIVATE ROAD	150	666
MIN. FRONT YARD SETBACKS (FT.) PRIVATE/TOWN ROAD	40	N/A
COUNTY/STATE ROAD	60	393
MIN. SIDE YARD SETBACK (FT.)	30	318
MIN. REAR YARD SETBACK (FT.)	50	53.3
MAX. SURFACE COVERAGE (%)	10%	1.83%
MAX. HEIGHT (FT.)	35	< 35
MAX. FOOTPRINT (SQ. FT.)	N/A	N/A
PERMANENT OPEN SPACE (%)	50%	62.3%

* - FLEXIBLE REQUIREMENTS PER 145-180
N/A - NOT APPLICABLE



SUBDIVISION PLAT
OF
STONY BROOK ESTATES
PREPARED FOR
RANDALLO INCORPORATED

TOWN OF DOVER
DUTCHESS COUNTY, NEW YORK

SLIT AND TORSTEN LLP
LAND SURVEYORS
PO BOX 329
3070 FRANKLIN AVENUE
WILLIAMSON, NEW YORK 13589
PHONE: 315-277-5815

COPY

GENERAL NOTES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN ENTITLED "SURVEY MAP PREPARED FOR: J. SPRENGER AND WALLACE E. SPRENGER" LAST REVISED DECEMBER 14, 2001.

   THE VERTICAL DATUM HERE NATURAL GE: DETIC SURVEY STANDARD VERTICAL DATUM OF FOT. 2 FOOT CONTOUR INTERVAL
2. PROVIDE 4" MINIMUM TOPSOIL, WITH SEED AND MULCH AT ALL DISTURBED AREAS.
3. CONTOUR INTERVAL = 2 FOOT
4. PER NEW YORK STATE LAW, THE CONTRACTOR SHALL CALL THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFPO) AT 1-800-962-7962 TWO TO FULL DAYS PRIOR TO PERFORMING ANY EXCAVATION WORK.
5. DUMPSTERS TO BE PROVIDED ON-SITE FOR DISPOSAL OF ALL CONSTRUCTION DEBRIS. DUMPSTERS TO BE REMOVED WHEN FILLED FOR DISPOSAL AT AN APPROVED FACILITY

UTILITIES NOTES:

1. JOINTS IN SANITARY, STORM AND WATER PIPES TO BE OFFSET AT ALL CROSSINGS.
2. EACH UNIT SHALL HAVE ITS OWN WATER METER
3. WATER MAIN IS TO BE 8 INCH DIA., SDR-14 PVC PIPE
4. MINIMUM COVER OVER WATER MAIN SHALL BE 5'-0"
5. TRACER WIRE (14 GA.) TO BE PLACED IN ALL WATER MAIN TRENCHES AT A DEPTH OF 2'-0" BELOW FINISHED GRADE
6. WATER MAINS AND APPURTENANCES SHALL BE OWNED AND MAINTAINED BY THE DUTCHESS COUNTY WATER & SEWER AUTHORITY
7. GRAVITY SEWER MAIN IS TO BE 8 INCH DIA., SDR-35 PVC PIPE
8. MINIMUM COVER OVER SEWER MAIN SHALL BE 5'-0"
9. SEWER FORCEMAIN SHALL BE 3 INCH DIA., SDR 11 PVC PIPE
10. MINIMUM COVER OVER SEWER FORCEMAIN SHALL BE 4'-0"
11. EXISTING UTILITIES, VALVE BOXES, MANHOLE FRAMES AND RING, CATCH BASIN FRAMES AND GRATES, ETC., SHALL BE ADJUSTED AS REQUIRED TO MEET NEW FINISHED GRADES
12. SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.
13. MINIMUM SEPARATION BETWEEN WATER MAIN AND UTILITY CABLES SHALL BE 9' 0".

SEWER STRUCTURE SCHEDULE

STRUCTURE NO.	SR1	SR2	SR3	SR4	SR5	SR6	SR7
TYPE	SMH	SMH	SMH	SMH	SMH	SMH	SMH
PIPE	8"	8"	8"	8"	8"	8"	8"
LENGTH	86 LF	128 LF	120 LF	210 LF	128 LF	67 LF	50 LF
T.O.	388.75	384.00	381.10	372.50	364.00	358.50	356.00
INV. IN DRP	------	384.0	378.00	361.40	360.10	357.0	373.10
INV. OUT SRP	384.75	384.00	382.40	361.50	360.00	357.00	373.00

SMH - SEWER MANHOLE

Site Volume Table Unadjusted

Site	Stratum	Surf.	Surf2	Cut yards	Fill yards	Net yards	Method
TMB-STONY BROOK SUBDIVISION							
EX_POND							
	swim_pond	sg-12706	[illegible]	28071	584	2585 (C)	Composite
road							
	road	swaing road	[illegible]	27844	2567 (F)	Composite	

DRAINAGE STRUCTURE TABLE

DRAIN NO.	DR1	DR2	DR3	DR4	DR5	DR6	DR7	DR8	DR9	DR10	DR11	DR12	DR13
TYPE	YD	EXIST YD	ES	HW	HW	ES	CB	ES	HW	CB	ES	ES	ES
PIPE	15"	12"	----	TRIPLE 8"	15"	----	8"	----	TRIPLE 15"	15"	----	----	----
LENGTH	16 LF	250 LF	----	266 LF	48 LF	----	88 LF	----	135 LF	61 LF	----	----	----
T.O.	388.75	384.25*	----	----	----	----	----	----	384.00	383.50	----	----	----
INV. IN DRP	----	384.10 (VIF)	----	----	----	----	----	----	384.10	381.25 (PER UNDERGRAD)	----	----	----
INV. IN DRP	----	383.50 (VIF)	----	----	----	----	----	----	----	----	----	----	----
INV. OUT DRP	386.55/DR2	383.50 / DR 12 / 386.50 N/ 7 / DR 5	386.00	386.00	384.50	384.50	386.00/DR1	386.00	384.10	381.25/DR10	386.10	384.30	387.00	386.00
STATION	----	----	----	----	----	----	----	----	----	----	----	----	----
OFFSET	----	----	----	----	----	----	----	----	----	----	----	----	----

* - ADJUST EXISTING GRATE AS REQUIRED TO MEET NEW FINISHED GRADE

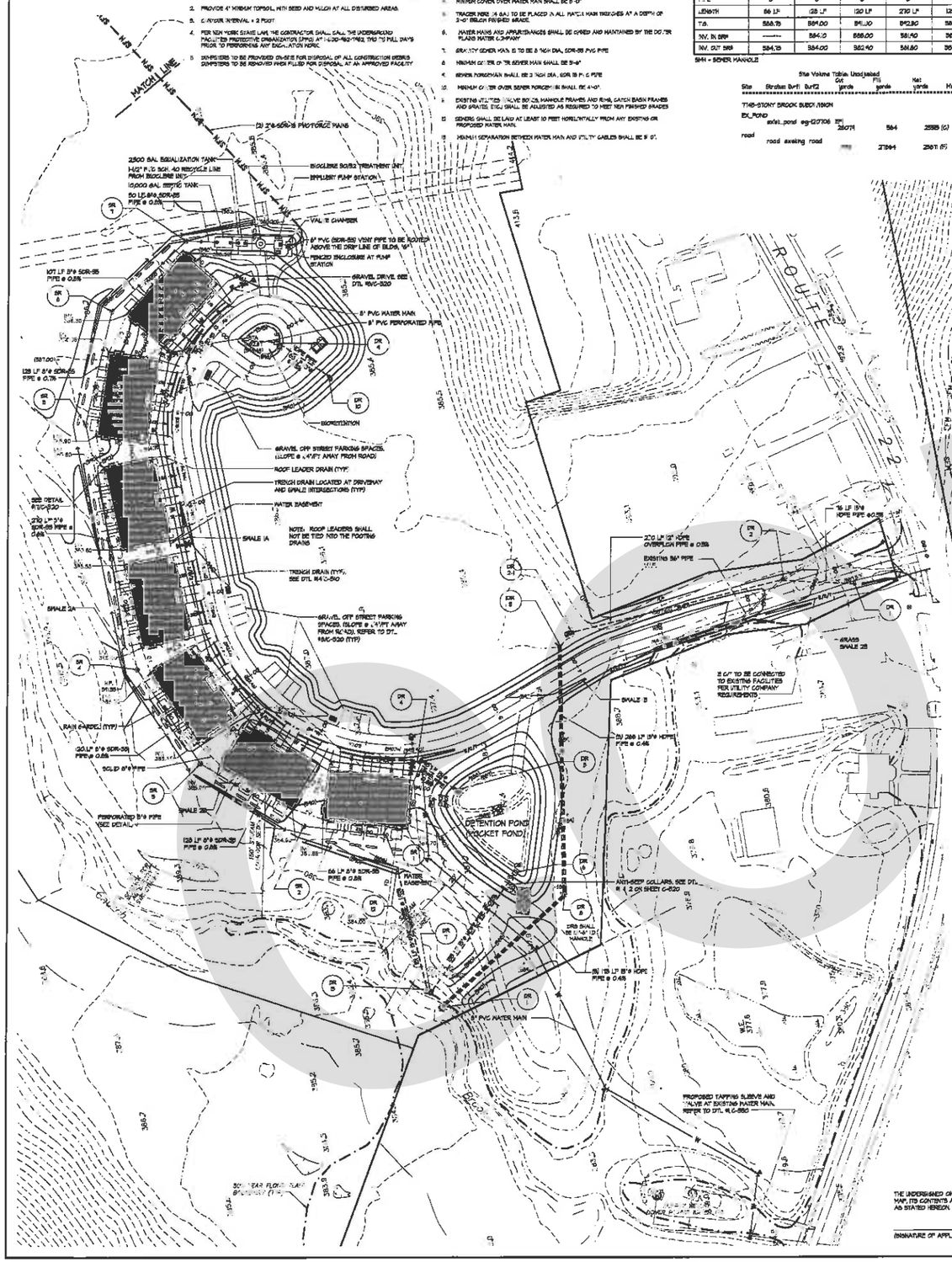
ES - END SECTION
HW - HEADWALL
CB - OUTLET STRUCTURE
YD - YARD DRAIN

SEWER LINE RIM INVERT ELEVATIONS

BUILDING	UNIT	MIN RIM SEWER INV.
A	1	385.99
	2	389.30
	3	384.41
	4	384.28
B	1	384.19
	2	384.09
	3	385.79
	4	383.72
C	1	389.06
	2	389.00
	3	382.12
	4	382.85
D	1	382.00
	2	381.45
	3	381.72
	4	381.67
E	1	381.35
	2	381.28
	3	381.01
	4	381.03
F	1	380.39
	2	380.47
	3	380.68
	4	380.91
G	1	379.40
	2	379.20
	3	378.84
	4	378.78

LEGEND:

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- PROPOSED END SECTION
- RIP RAP
- ROOF DRAIN
- FOOTING DRAIN
- WATER MAIN
- SEWER MAIN
- SEWER FORCE MAIN
- SEWER MANHOLE
- EXISTING WATER LINE
- WATER VALVE
- EXISTING WATER VALVE
- HYDRANT
- EXISTING HYDRANT
- THRUST BLOCK
- LIGHT POLE
- EXISTING U-POLE WITH 400' WIRE
- ELECTRIC/CABLE/TELEPHONE UNDERGROUND SERVICE
- DRIVEWAY SLOPE



THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

(SIGNATURE OF APPLICANT)

GRADING, DRAINAGE & UTILITY PLAN

GRAPHIC SCALE

(IN FEET)
1 INCH = 50 FEET

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REVISIONS		
NO.	DATE	DESCRIPTION
2	JAN. 24, 2007	REVISED PER TE
3	SEP. 01, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER TE
5	JAN. 07, 2008	REVISED PER TE
6	JAN. 24, 2008	REVISED PER TE
7	OCT. 01, 2008	REVISED PER TE
8	NOV. 05, 2008	REV. TO M/P #5 / SUB. TO TOWN FOR RE-APPROVAL
9	FEB. 18, 2009	REVISED STREET SIGNS

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7058-00-442415 LOT 18
TAX MAP 7058-00-346868 LOT 12

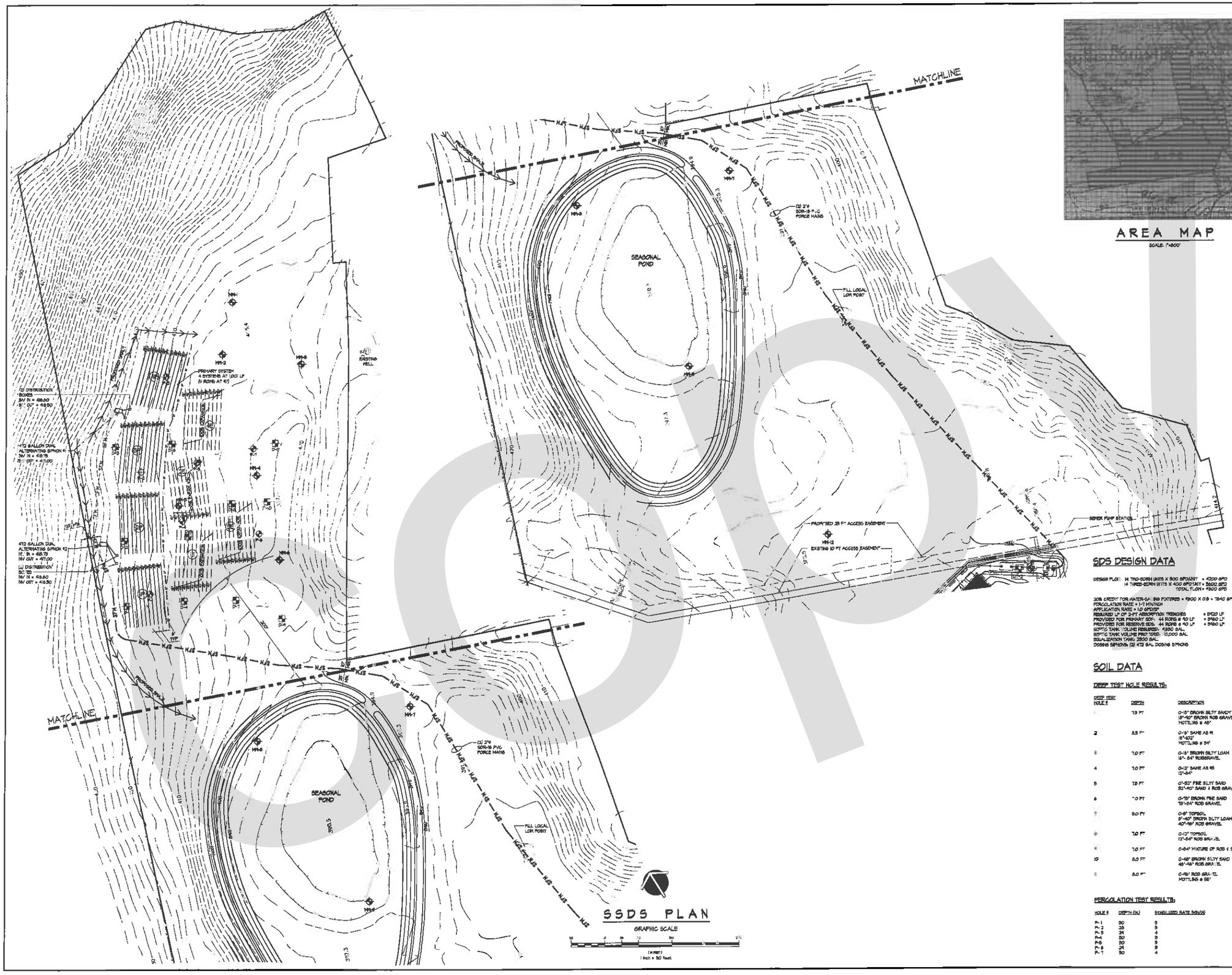
DATE	2-28-2008
PROJECT MANAGER	MJB
DRAWN BY	MJB
CHECKED BY	MJB
SCALE	AS NOTED

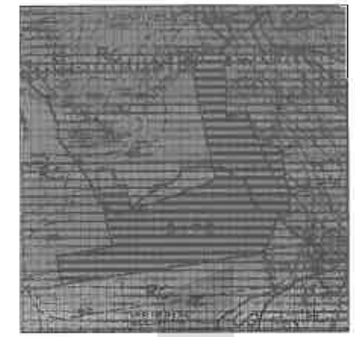
DRAWING: GRADING, DRAINAGE & UTILITY PLAN

PROJECT NUMBER: TMB

DRAWING NUMBER: C-130

SHEET 9 OF 18





AREA MAP

SCALE: 1"=800'

SDS DESIGN DATA

DESIGN FLOW: 14 TWO-BEDRM UNITS X 300 GPD/UNIT = 4200 GPD
14 THREE-BEDRM UNITS X 400 GPD/UNIT = 5600 GPD
TOTAL FLOW = 9800 GPD

30% CREDIT FOR WATER-SAVING FIXTURES = 9800 X 0.8 = 7840 GPD
PERCOLATION RATE = 1-3 MIN/INCH
APPLICATION RATE = 1.0 GPD/SF
REQUIRED LF OF 2-FT ABSORPTION TRENCHES = 8820 LF
PROVIDED FOR PRIMARY SDS: 44 ROWS @ 40 LF = 8960 LF
PROVIDED FOR RESERVE SDS: 44 ROWS @ 40 LF = 8960 LF
SEPTIC TANK VOLUME REQUIRED: 4,800 GAL.
SEPTIC TANK VOLUME PROVIDED: 10,000 GAL.
EQUALIZATION TANK: 2500 GAL.
DOSING SIPHONS: (2) 412 GAL DOSING SIPHONS

SOIL DATA

DEEP TEST HOLE RESULTS:

DEEP TEST HOLE #	DEPTH	DESCRIPTION
1	13 FT	0-15" BROWN SILTY SANDY LOAM 15"-40" BROWN ROB GRAVEL MOTTLING @ 48"
2	8.5 FT	0-18" SAME AS #1 18"-40" MOTTLING @ 34"
3	7.0 FT	0-18" BROWN SILTY LOAM 18"-84" ROBBGRAVEL
4	7.0 FT	0-12" SAME AS #3 12"-84"
5	7.0 FT	0"-52" FINE SILTY SAND 52"-60" SAND & ROB GRAVEL
6	7.0 FT	0-78" BROWN FINE SAND 78"-84" ROB GRAVEL
7	8.0 FT	0-8" TOPSOIL 8"-40" BROWN SILTY LOAM 40"-48" ROB GRAVEL
8	7.0 FT	0-12" TOPSOIL 12"-84" ROB GRAVEL
9	7.0 FT	0-84" MIXTURE OF ROB & SAND
10	8.0 FT	0-48" BROWN SILTY SAND 48"-96" ROB GRAVEL
11	8.0 FT	0-96" ROB GRAVEL MOTTLING @ 58"

PERCOLATION TEST RESULTS:

HOLE #	DEPTH (IN)	STABILIZED RATE (MIN/IN)
P-1	30	5
P-2	33	5
P-3	24	4
P-4	30	5
P-5	30	5
P-6	24	5
P-7	30	4

SSDS PLAN

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REVISIONS		
NO.	DATE	DESCRIPTION
2	JAN. 24, 2007	REVISED PER TP
3	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER TP
5	JAN. 24, 2008	REVISED PER TP
6	JAN. 25, 2008	REVISED PER DOLI & DOAD
7	OCT. 01, 2008	REVISED PER TP
8	NOV. 05, 2008	REV. TO HAP 75/SEE SD SDRR FOR RE-APPROVAL
9	FEB. 18, 2009	REVISED PER NYSDEC STREET MAPS

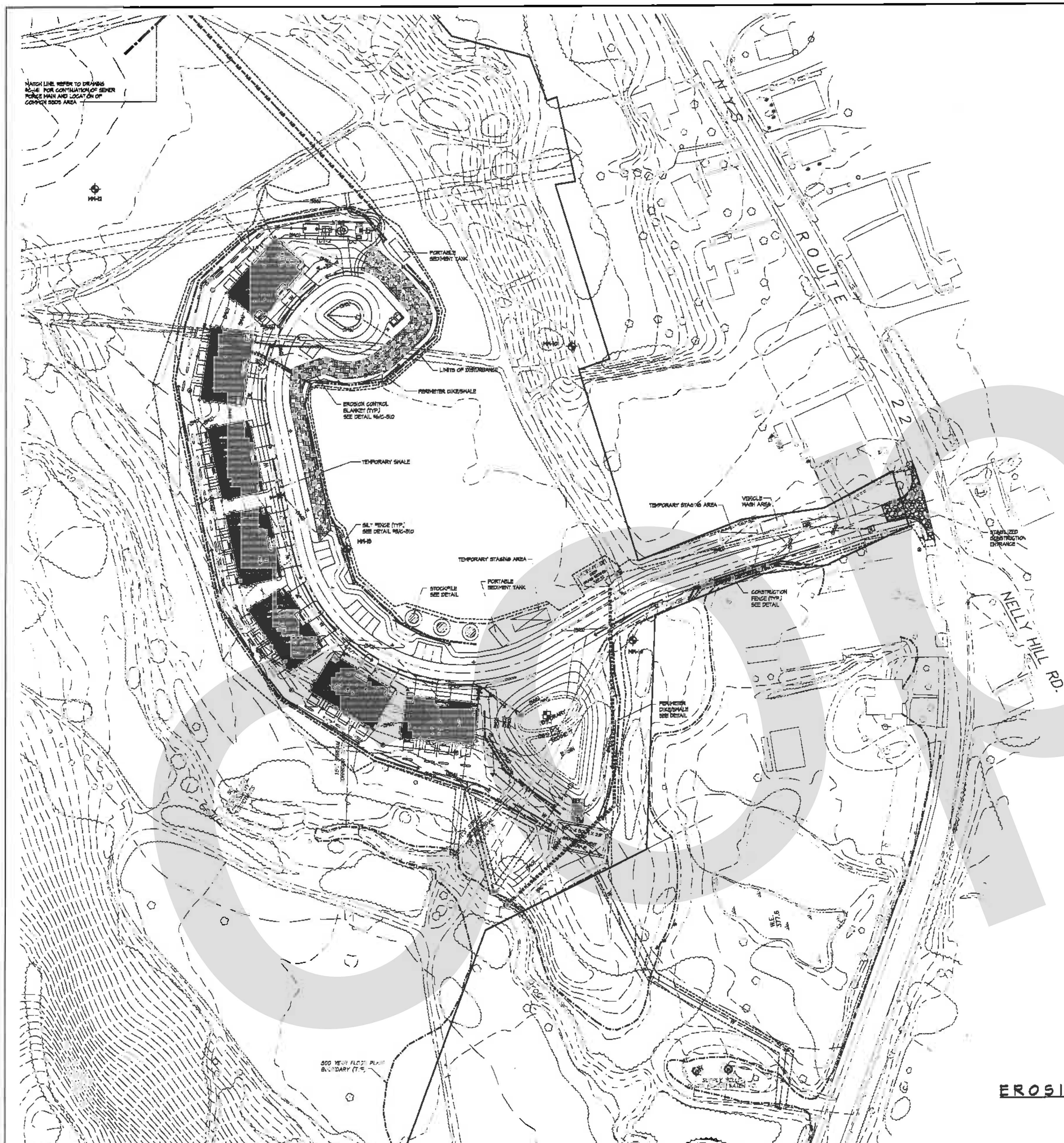
PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 108-02-403412 LOT 8
TAX MAP 108-02-403412 LOT 10

DATE: 07-25-2006
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: SSDS LAYOUT PLAN

PROJECT NUMBER: 1748
DRAWING NUMBER: C-131

SHEET 8 OF 15



MAINTENANCE PROGRAM:

1. THE PROJECT CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE PROJECT PROPERTY. THE PROJECT CONTRACTOR WILL ALSO BE RESPONSIBLE FOR MAINTENANCE ACTIVITIES OF ALL PERMANENT STORMWATER MANAGEMENT/TREATMENT COMPONENTS AND STRUCTURES WITHIN THE PROJECT DURING THE PROJECT CONSTRUCTION AND UNTIL RESPONSIBILITIES ARE TRANSFERRED TO THE HOMEOWNERS ASSOCIATES (HOA). THE HOA WILL THEN TAKE CHARGE OF ALL MAINTENANCE ACTIVITIES OF THE PERMANENT STORMWATER MANAGEMENT/TREATMENT COMPONENTS AND STRUCTURES.

2. PRIOR TO EITHER THE DETERMINATION OF A PROJECT CONTRACTOR OR FORMATION OF A H.O.A., THE PROJECT APPLICANT SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY AND PERMANENT MEASURES.

TEMPORARY MEASURES

A. SILT FENCE: SEDIMENTS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. IT SHOULD ALSO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS. REPAIR SHALL BE PERFORMED AS NEEDED.

B. SWALES: PROPOSED SWALES ARE USED AS DIVERSION SWALES DURING THE CONSTRUCTION PHASE. THESE SWALES ARE TO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS FOR SCOUR AND EROSION. REMOVE DEPOSITS OR SEDIMENT OR OTHER OBSTRUCTIONS.

C. CONSTRUCTION ENTRANCE: CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. VISUAL INSPECTION SHALL BE PERFORMED DAILY THROUGHOUT THE PROJECT CONSTRUCTION. TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

D. SEDIMENT BASIN: VISUAL INSPECTION OF THE BASIN EMBANKMENT, OUTLET STRUCTURE AND DEWATERING DEVICE SHALL BE PERFORMED EVERY 3 MONTHS, PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORMS. REPAIRS SHALL BE MADE AS NEEDED. SEDIMENT SHOULD BE REMOVED EVERY SIX (6) MONTHS OR WHEN SEDIMENT ACCUMULATION REACHES THE DESIGN CLEANOUT LEVEL, IN ORDER TO PRESERVE THE AVAILABLE STORMWATER MANAGEMENT CAPACITY OF THE SEDIMENT BASIN AND TO PREVENT THE OUTLET ORIFICES OR FILTER MEDIUM FROM BECOMING CLOGGED. THE LEVEL OF SEDIMENT AT WHICH CLEANOUT IS REQUIRED SHALL BE MARKED ON A FIXED REFERENCE POINT. SOME METHODS TO ACCOMPLISH THIS ARE:
1. SET STAKE IN SEDIMENT STORAGE AREA WITH PAINTED MARK SHOWING CLEANOUT ELEVATION.
2. WHEN USING A RISER TYPE OUTLET, A PAINT MARK ON THE PIPE SHOWS CLEANOUT ELEVATION.

E. CURB INLET PROTECTION: INLET PROTECTION SHALL BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS. SEDIMENTS AND DEBRIS SHALL BE REMOVED FROM BEHIND THE FENCE IF PRESENT. REPAIR SHALL BE PERFORMED AS NEEDED.

PERMANENT MEASURES

DESIGN 4 BIORETENTION MAINTENANCE/INSPECTION ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. PRE-CONSTRUCTION PRECONSTRUCTION MEETING RUNOFF DIVERTED FACILITY AREA CLEARED IF DESIGNED AS EXFILTER, SOIL TESTING FOR PERMEABILITY FACILITY LOCATION STAKED OUT		
2. EXCAVATION SIZE AND LOCATION IF DESIGNED AS EXFILTER, ENSURE THAT EXCAVATION DOES NOT COMPACT SUBSOILS LONGITUDINAL SLOPES WITHIN DESIGN RANGE		
3. STRUCTURAL COMPONENTS STONE DIAPHRAGM INSTALLED CORRECTLY OUTLETS INSTALLED CORRECTLY UNDERDRAIN PRETREATMENT DEVICES INSTALLED SOIL BED COMPOSITION AND TEXTURE		
4. VEGETATION COMPLIES WITH PLANTING SPECS TOPSOIL ADEQUATE IN COMPOSITION AND PLACEMENT ADEQUATE EROSION CONTROL MEASURES IN PLACE		
5. FINAL INSPECTION DIMENSIONS PROPER STONE DIAPHRAGM SOIL/ FILTER BED PERMEABILITY TESTING EFFECTIVE STAND OF VEGETATION AND STABILIZATION CONSTRUCTION GENERATED SEDIMENTS REMOVED CONTRIBUTING WATERSHED STABILIZED BEFORE FLOW IS DIVERTED TO THE PRACTICE		

DESIGN 14 GRASS SWALE MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. DEBRIS CLEANOUT (MONTHLY) CONTRIBUTING AREAS TO CLEAN OF DEBRIS		
2. CHECK DAMS OR ENERGY DISSIPATORS (ANNUAL, PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED MAJOR STORMS) NO EVIDENCE OF FLOW GOING AROUND STRUCTURES NO EVIDENCE OF EROSION AT DOWNSTREAM TOE SOIL PERMEABILITY GROUNDWATER/BEDROCK		
3. VEGETATION (MONTHLY) MOWING DONE WHEN NEEDED MINIMUM MOWING DEPTH NOT EXCEEDED NO EVIDENCE OF EROSION AT DOWNSTREAM TOE FERTILIZED PER SPECIFICATION		
4. DEWATERING (MONTHLY) DEWATERS BETWEEN STORMS		
5. SEDIMENT DEPOSITION (ANNUAL) CLEAN OF SEDIMENT		
6. OUTLET/OVERFLOW SPILLWAY (ANNUAL) GOOD CONDITION, NO NEED FOR REPAIRS NO EVIDENCE OF EROSION		

CATCH BASIN / YARD DRAIN / MANHOLE MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. VISUAL INSPECTION (EVERY 3 MONTHS) 1. SEDIMENT ACCUMULATION AT: A) RIM B) SUMP 2. SIGN OF EROSION AROUND STRUCTURE 3. SIGN OF STORMWATER BYPASS		
2. MAINTENANCE (EVERY 3 MONTHS) A) REMOVE SEDIMENT IN SUMP IF GREATER THAN 12" DEEP B) CLEAR RIM OF DEBRIS AND LEAVES C) CLEAR DEBRIS IN INLET CHANNEL D) REPAIR ERODED PORTION OF INLET CHANNEL (IF ANY)		

STORM PIPES (TWICE A YEAR AND BEFORE ALL MAJOR FORECASTED STORMS) MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. STRUCTURAL INTEGRITY 2. SIGN OF CLOGGAGE		

RIP RAP OUTLET PROTECTION (ONCE A YEAR AND AFTER MAJOR STORMS) MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. CHECK FOR SCOUR AND INTEGRITY 2. REPAIR IF NEEDED		

DESIGN 8 EXTENDED DETENTION POND MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. EMBANKMENT AND EMERGENCY SPILLWAY (ANNUAL, PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED MAJOR STORMS) 1. VEGETATION AND GROUND COVER ADEQUATE 2. EMBANKMENT EROSION 3. ANIMAL BURROWS 4. UNAUTHORIZED PLANTING 5. CRACKING, BULGING, OR SLIDING OF DAM A) UPSTREAM FACE B) DOWNSTREAM FACE C) AT OR BEYOND TOE DOWNSTREAM UPSTREAM D) EMERGENCY SPILLWAY 6. POND, TOE & CHIMNEY DRAINS CLEAR AND FUNCTIONING 7. SEEPS/LEAKS ON DOWNSTREAM FACE 8. SLOPE PROTECTION OR RIPRAP FAILURE 9. VERTICAL/HORIZONTAL ALIGNMENT OF TOP OF DAM "AS-BUILT" 10. EMERGENCY SPILLWAY CLEAR OF OBSTRUCTIONS AND DEBRIS 11. OTHER (SPECIFY)		
B. RISER AND PRINCIPAL SPILLWAY (ANNUAL) TYPE: REINFORCED CONCRETE CORRUGATED PIPE MASONRY 1. LOW FLOW ORIFICE OBSTRUCTED 2. LOW FLOW TRASH RACK A) DEBRIS REMOVAL NECESSARY B) CORROSION CONTROL 3. WEIR TRASH RACK MAINTENANCE A) DEBRIS REMOVAL NECESSARY B) CORROSION CONTROL 4. EXCESSIVE SEDIMENT ACCUMULATION INSIDER RISER 5. CONCRETE/MASONRY CONDITION RISER AND BARRELS A) CRACKS OR DISPLACEMENT B) MINOR SPALLING (<1") C) MAJOR SPALLING (REBARS EXPOSED) D) JOINT FAILURES E) WATER TIGHTNESS 6. METAL PIPE CONDITION 7. CONTROL VALVE A) OPERATIONAL/EXERCISED B) CHAINED AND LOCKED 8. POND DRAIN VALVE A) OPERATIONAL/EXERCISED B) CHAINED AND LOCKED 9. OUTFALL CHANNELS FUNCTIONING 10. OTHER (SPECIFY)		
3. PERMANENT POOL (WET PONDS) (MONTHLY) 1. UNDESIRABLE VEGETATION GROWTH 2. FLOATING OR FLOATABLE DEBRIS REMOVAL REQUIRED 3. VISIBLE POLLUTION 4. SHORELINE PROBLEM 5. OTHER (SPECIFY)		
4. SEDIMENT FOREBAYS 1. SEDIMENTATION NOTED 2. SEDIMENT CLEANOUT WHEN DEPTH 50% DESIGN DEPTH		
5. DRY POND AREAS 1. VEGETATION ADEQUATE 2. UNDESIRABLE VEGETATIVE GROWTH 3. UNDESIRABLE WOODY VEGETATION 4. LOW FLOW CHANNELS CLEAR OF OBSTRUCTIONS 5. STANDING WATER OR WET SPOTS 6. SEDIMENT AND/OR TRASH ACCUMULATION 7. OTHER (SPECIFY)		
6. CONDITION OF OUTFALLS (ANNUAL, AFTER MAJOR STORMS) 1. RIPRAP FAILURES 2. SLOPE EROSION 3. STORM DRAIN PIPES 4. ENDWALLS/HEADWALLS 5. OTHER (SPECIFY)		
7. OTHER (MONTHLY) 1. ENCROACHMENT ON POND, WETLAND OR EASEMENT AREA 2. COMPLAINTS FROM RESIDENTS 3. AESTHETICS A) GRASS GROWING REQUIRED B) GRAFFITI REMOVAL NEEDED C) OTHER (SPECIFY) 4. CONDITIONS OF MAINTENANCE ACCESS ROUTES 5. SIGNS OF HYDROCARBON BUILD-UP 6. ANY PUBLIC HAZARDS (SPECIFY)		
8. WETLAND VEGETATION (ANNUAL) 1. VEGETATION HEALTHY AND GROWING WETLAND MAINTAINING 50% SURFACE AREA COVERAGE OF WETLAND PLANTS AFTER THE SECOND GROWING SEASON (IF UNSATISFACTORY, REINFORCEMENT PLANTINGS NEEDED) 2. DOMINANT WETLAND PLANTS SURVIVAL OF DESIRED WETLAND PLANT SPECIES DISTRIBUTION ACCORDING TO LANDSCAPING PLAN 3. EVIDENCE OF INVASIVE SPECIES 4. MAINTENANCE OF ADEQUATE WATER DEPTHS FOR DESIRED WETLAND PLANT SPECIES 5. HARVESTING OF EMERGENT PLANTINGS NEEDED 6. HAVE SEDIMENT ACCUMULATIONS REDUCED POOL VOLUME SIGNIFICANTLY OR ARE PLANTS "CHOKED" WITH SEDIMENT 7. EUTROPHICATION LEVEL OF THE WETLAND 8. OTHER (SPECIFY)		

TEMPORARY SEDIMENT BASIN VOLUME

1. REQUIRED: 3600 CF PER ACRE x 2.28 ACRES = 8028 CF = 241 CUBIC YARDS
2. PROVIDED: BASIN VOLUME = 38,878 CF = 1452 CUBIC YARDS
3. SEDIMENT CLEANOUT ELEVATION: 387.57
CORRESPONDING SEDIMENT MARKER ON OUTLET STRUCTURE: 2.48' BELOW TOP OF RISER (REFER TO DETAIL #4/C-520)

GRASS SEDIMENT TRAP VOLUME

1. REQUIRED: 3600 CF PER ACRE x 1.25 ACRES = 4500 CF = 167 CUBIC YARDS
2. PROVIDED: 30' x 30' x 2.5' = 4500 CF = 167 CUBIC YARDS

EROSION CONTROL LEGEND:

- EXISTING DRAINAGE PIPE
- EXISTING TREE LINE
- EXISTING UTILITY POLE
- EXISTING CONTOURS
- SILT FENCE
- CONSTRUCTION FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- STEEP SLOPE STABILIZATION
- TEMPORARY STAGING AREA
- TEMPORARY SOIL STOCKPILE
- INLET PROTECTION
- TEMPORARY SWALE
- LIMIT OF DISTURBANCE

EROSION AND SEDIMENT CONTROL PLAN

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 feet

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REVISIONS

NO.	DATE	DESCRIPTION
2	JAN. 29, 2007	REVISED PER TE
3	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER TE
5	FEB. 21, 2008	REVISED PER AMB
6	JUN. 25, 2008	REVISED PER DEC & DCHD
7	OCT. 01, 2008	REVISED PER TE
8	NOV. 05, 2009	REV. TAX MAP #5 / SUB. TO TOWN FOR RE-APPROVAL
9	FEB. 16, 2010	ADDED STREET NAME

PROJECT:
STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7063-00-443412 LOT #1
TAX MAP 7063-00-340362 LOT #2

DATE: 01-25-2003
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: EROSION AND SEDIMENT CONTROL PLAN

PROJECT NUMBER: T748
DRAWING NUMBER: C-140
SHEET 1 OF 18

EROSION CONTROL LEGEND:

- EXISTING DRAINAGE PIPE
- EXISTING TREE LINE
- EXISTING UTILITY POLE
- EXISTING CONTOURS
- SILT FENCE
- CONSTRUCTION FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- STEEP SLOPE STABILIZATION
- TEMPORARY STAGING AREA
- TEMPORARY SOIL STOCKPILE
- INLET PROTECTION
- TEMPORARY SWALE
- LIMIT OF DISTURBANCE

EROSION AND SEDIMENT CONTROL PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 50 feet

SEQUENCE OF CONSTRUCTION

TOTAL AREA OF DISTURBANCE=11.8 AC.

IN ORDER TO EFFECTIVELY CONTROL EROSION AND SEDIMENT, CONTRACTOR SHALL ADHERE TO THE LOCATION, MATERIALS AND PROCEDURES SHOWN ON THE "EROSION AND SEDIMENT CONTROL PLAN", DRAWING C-140, C-141 & C-142; DETAILS SHOWN ON SHEETS C-510, C-520, C-530 AND C-540 AND THE FOLLOWING SEQUENCE OF CONSTRUCTION.

PHASE I
DISTURBANCE AREA=2.15 AC.

1. SURVEY AND STAKE OUT PROPOSED ROAD, HOUSES, DRIVEWAYS AND STORMWATER BMP LOCATIONS. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE. ESTABLISH VEHICLE WASH AREA. VEHICLES SHALL BE INSPECTED AND CLEANED, IF REQUIRED, PRIOR TO ENTERING ONTO ROUTE 22.
3. INSTALL CONSTRUCTION FENCE ALONG PROPOSED LIMITS OF DISTURBANCE
4. INSTALL SILT FENCE IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCES AND WHERE INDICATED ON PLAN. ALL SILT FENCES TO BE INSTALLED PARALLEL TO CONTOURS.

   CONSTRUCT THE SWALE BEHIND THE BUILDINGS.
5. INSTALL PERIMETER DIKE/SWALE COMBINATION AT TOE OF THE PROPOSED DETENTION POND/TEMPORARY SEDIMENT BASIN EMBANKMENT.
6. EXCAVATE GRASS SEDIMENT TRAP #1 AS SHOWN ON THE PLAN.
7. CONSTRUCT EXTENDED DETENTION POND TO ACT AS A TEMPORARY SEDIMENT BASIN. EXCAVATE BASIN TO FINAL GRADES. INSTALL TEMPORARY OUTLET STRUCTURE AND DISCHARGE PIPE, PLUS OUTLET PIPE FROM THE OUTLET STRUCTURE. THE TEMPORARY SEDIMENT BASIN MUST BE STABILIZED WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK.
8. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THE TEMPORARY SEDIMENT BASIN, AND ALL DISTURBED AREAS ARE STABILIZED.

PHASE II
DISTURBANCE AREA=4.11 AC.

1. INSTALL CONSTRUCTION FENCE ALONG PROPOSED LIMITS OF DISTURBANCE.
2. INSTALL PERIMETER DIKE/SWALE COMBINATION AND SILT FENCES AROUND FUTURE CUL-DE-SAC. ENSURE POSITIVE DRAINAGE TOWARD PORTABLE SEDIMENT TANK.
3. PLACE THE PORTABLE SEDIMENT TANK AS SHOWN ON THE PLAN.
4. EXCAVATE SEASONAL POND TO FINAL GRADES. THE EXCAVATED MATERIAL TO BE STORED AT THE PROPOSED CUL-DE-SAC LOCATION FOR FUTURE FILL PAD FOR THE PROPOSED ROAD. WHEN WATER ACCUMULATES BEHIND DIKES USE A TRASH PUMP TO PUMP THE WATER TO THE PORTABLE SEDIMENT TANK. A SMALL DEPRESSION AT THE END OF THE SWALE MAY BE EXCAVATED FOR EASE OF PUMPING-OUT.
5. SEED AND STABILIZE DISTURBED AREAS IMMEDIATELY AFTER GRADING.

PHASE III
DISTURBANCE AREA=4.71 AC.

1. INSTALL CONSTRUCTION FENCE ALONG PROPOSED LIMITS OF DISTURBANCE.
2. INSTALL SILT FENCE IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCES AND WHERE INDICATED ON PLANS. ALL SILT FENCES TO BE INSTALLED PARALLEL TO CONTOURS.
3. INSTALL PERIMETER DIKE/SWALE COMBINATION AND SILT FENCES ON BOTH SIDES OF THE PROPOSED FILL PAD. ENSURE POSITIVE DRAINAGE TOWARD PORTABLE SEDIMENT TANK.
4. CREATE ROUGHLY GRADED FILL PAD FOR THE PROPOSED ROAD. USE FILL STORED AT THE PROPOSED CUL-DE-SAC LOCATION. FILL TO BE PLACED IN 8 INCH LIFTS AND COMPACTED TO 95% DRY DENSITY BY MECHANICAL MEANS. FILL SHALL BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. BUILD RETAINING WALL AS GRADING OF THE PAD PROGRESS.

   EXCAVATE GRASS SEDIMENT TRAP #2 AS SHOWN ON THE PLAN.
5. INSTALL STORMWATER STRUCTURES DR1, DR2, DR2-1, DR3, DR8 AND CONNECTING PIPES. PROVIDE INLET PROTECTION TO NEWLY INSTALLED YARD DRAINS. THE STRUCTURES ARE NOT TO RECEIVE ANY STORMWATER FLOW UNTIL AT LEAST AN ASPHALT BINDER COURSE IS PLACED.
6. EXCAVATE TEMPORARY SWALE ALONG THE ROAD AS SHOWN ON THE PLAN.
7. EXCAVATE TRENCHES FOR INSTALLATION OF WATER (ALONG PROPOSED ROAD) AND SEWER PIPES. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND MANHOLES. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL.
8. EXCAVATE TRENCH AND LAY ELECTRIC, CABLE AND TELEPHONE CABLES. FOLLOW PROCEDURE OUTLINED ABOVE.
9. SEED AND STABILIZE DISTURBED AREAS IMMEDIATELY AFTER GRADING.
10. AFTER THE TRENCH WORK IS COMPLETED, THE PROPOSED ROAD SHALL BE TOPPED WITH GRAVEL BASE PER RESPECTIVE DETAIL.

PHASE IV
DISTURBANCE AREA=4.87 AC.

1. INSTALL CONSTRUCTION FENCE ALONG PROPOSED LIMITS OF DISTURBANCE AND AROUND THE SSTS RESERVE AREA TO PREVENT SOIL COMPACTING BY HEAVY EQUIPMENT.
2. CONSTRUCT SEWER PUMP STATION AND THE SSDS AREA. INSTALL SEWER FORCEMAIN.
3. BUILD HOUSES AND DRIVEWAYS. INSTALL FOOTING AND ROOF DRAINS. CONNECT HOUSES TO ALL UTILITY LINES. COMPLETE GRADING AROUND THE HOUSES.
4. COMPLETE FINISHED GRADING AROUND HOUSES.
5. SEED AND STABILIZE DISTURBED AREAS IMMEDIATELY AFTER GRADING.
6. CONSTRUCT BIORETENTION FACILITY. CONSTRUCTION OF THE BIORETENTION FACILITY IS NOT ALLOWED UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.

PHASE V
DISTURBANCE AREA=4.07 AC.

1. INSTALL CONSTRUCTION FENCE ALONG PROPOSED LIMITS OF DISTURBANCE.
2. CLEAN THE GRASS SEDIMENT TRAP, RESTORE THE AR.
3. INSTALL WATER PIPE FROM EXISTING WATER MAIN TO THE PROPOSED ROAD. TRENCH TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPE. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL.
4. CLEAN ACCUMULATED SEDIMENT IN TEMPORARY SWALES. RESTORE AND UPGRADE TO PERMANENT SWALE. INSTALL CHECK DAMS.
5. INSTALL REMAINING DRAINAGE PIPES AND STRUCTURES.
6. CONVERT TEMPORARY SEDIMENT BASIN TO DETENTION BASIN PER "BASIN CONVERSION NOTES".
7. INSTALL TOP COURSE PAVEMENT ON ENTIRE LENGTH OF ROAD. CLEAN ALL DRAINAGE STRUCTURES.
8. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES TO INCLUDE SILT FENCE.
9. UPON COMPLETION OF ALL ABOVE ACTIVITIES AND SATISFACTORY ESTABLISHMENT OF VEGETATION ON ALL DISTURBED AREAS, CONTRACTOR TO PERFORM FINAL CLEANING OF THE PROJECT SITE.

ON SITE POLLUTION CONTROL MEASURES

I POLLUTION PREVENTION MEASURES TO CONTROL LITTER, CONSTRUCTION CHEMICALS AND CONSTRUCTION DEBRIS

1. THERE SHALL BE RECEPTACLES PLACED ON THE SITE TO TEMPORARILY STORE GARBAGE, DEBRIS OR CONSTRUCTION WASTE MATERIALS. THE CONTAINER SHALL NOT BE USED TO TRANSFER ANY GARBAGE FROM ANY OTHER OFF-SITE ACTIVITY.
2. THE RECORD OWNER SHALL BE RESPONSIBLE FOR KEEPING THE SITE FREE OF LITTER AT ALL TIMES. DURING CONSTRUCTION ACTIVITIES THE OWNER MAY DESIGNATE A CONTRACTOR IN CHARGE AS A RESPONSIBLE PARTY.
3. THE SITE SHALL BE INSPECTED AT THE END OF EACH WORKDAY AND TRASH, DEBRIS AND GARBAGE SHALL BE PICKED UP AND PLACED IN ON-SITE DUMPSTERS OR OTHERWISE REMOVED FROM THE SITE.
4. A PORTABLE TOILET FACILITY SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AND AN ADDITIONAL FACILITY FOR EVERY 10 ON-SITE WORKERS.
5. CONSTRUCTION VEHICLES SHALL BE SERVICED OFF-SITE AT A PROPER FACILITY. LEAKING OR ILL REPAIRED VEHICLES SHALL NOT BE LOCATED ON SITE. NO OIL CHANGES ARE PERMITTED ON SITE. FUELING OF VEHICLES ON SITE SHALL BE CAREFULLY PERFORMED WITH AN APPROVED DISPENSER NOZZLE HOSE AND PUMP. SPILLS SHALL PROMPTLY BE REPORTED TO THE NYSDEC AND TOWN. SORBO PADS AND ROLLS SHALL BE USED TO TEMPORARILY CONTAIN ANY SPILLS.
6. CHEMICAL SOIL ADDITIVES OR HERBICIDES SHALL NOT BE USED ON SITE DURING CONSTRUCTION UNLESS APPROVED BY THE TOWN AND COMPLIANT WITH NYSDEC REGULATIONS
7. THE CONTAINERS SHALL BE OF SUFFICIENT SIZE FOR THE CONSTRUCTION ACTIVITY. CONTAINERS SHALL BE EMPTIED BY AN APPROVED CARTER TO A PROPER FACILITY WHEN FULL. CONTAINERS SHALL BE COVERED TO PREVENT INFILTRATION OF RAIN AND WEATHER AND TO PREVENT WIND BORNE DEBRIS REMOVAL.
8. PAINTS, CHEMICALS OR OTHER TOXIC SUBSTANCES SHALL NOT BE PLACED IN TRASH CONTAINERS. PAINTS, CHEMICALS OR TOXIC SUBSTANCES SHALL BE REMOVED FROM SITE BY AN APPROVED LICENSED CARTER.
9. THERE SHALL BE NO OPEN FIRES OR BARREL FIRES PERMITTED UNLESS APPROVED BY THE TOWN AND FIRE MARSHALL.
10. DEBRIS OR TRASH PILES ARE NOT PERMITTED. DEBRIS SHALL BE PLACED IN CONTAINERS. TEMPORARY PILES OF BRUSH OR STUMPS SHALL BE PROTECTED BY SILT FENCE SIMILAR TO TOPSOIL STOCKPILES.

ON SITE STORAGE OF CONSTRUCTION AND WASTE MATERIALS

II CONSTRUCTION MATERIALS STORED ON SITE ARE ANTICIPATED TO BE:

A. SAND, STONE AND CRUSHED ROCK
B. BRUSH OR TREE STUMPS
C. SOIL STOCKPILES
D. BUILDING PRODUCTS (WOOD, STEEL FRAMING, INSULATOR BOARDS, PLYWOOD, PIPE, DRAINAGE STRUCTURES)
E. CONSTRUCTION EQUIPMENT AND MACHINERY
F. DUMPSTERS OR STORAGE CONTAINERS

2. POLLUTION CONTROLS SHALL CONSIST OF:

A. POLLUTION PREVENTION MEASURES DESCRIBED IN SECTION
B. THE COVERING OF EXPOSED PRODUCTS WHEN NOT IN USE
C. THE IMPLEMENTATION OF TEMPORARY STOCKPILE PROTECTION MEASURES AS DESCRIBED IN THIS REPORT AND SHOWN ON THE PLAN.

BEST MANAGEMENT PRACTICES (BMPS) FOR STONY BROOK CONDOMINIUM DEVELOPMENT

1. ROADWAY AND PARKING LOT MAINTENANCE WILL BE DONE BY A LOCAL CONTRACTOR. THE GENERALLY FLAT GRADE OF THE ENTRANCE ROAD AND PARKING AREAS WILL PERMIT WINTER TRAFFICABILITY TO BE MAINTAINED BY ROAD SAND AFTER PLOWING OF SNOWFALLS, WITH NO NEED FOR DEICING CHEMICALS, EXCEPT WHEN ICE STORMS OCCUR. DEICING AFTER ICE STORMS WILL BE DONE WITH CALCIUM CHLORIDE, WITH SODIUM CHLORIDE PROHIBITED FOR USE BY CONTRACT. THE ROADWAYS AND PARKING AREAS WILL BE SWEPT BY MECHANICAL SWEEPER AT LEAST ONCE ANNUALLY, AND MORE OFTEN WHEN NEEDED DURING WARM WEEKS DURING THE WINTER MONTHS
2. LAWN AREAS WILL BE UNDER CENTRAL MAINTENANCE BY A LOCAL LANDSCAPE CONTRACTOR, WITH ONLY SMALL SHRUB AND FLOWER BEDS TO BE MAINTAINED BY CONDOMINIUM OWNERS. LAWN FERTILIZER AND LIMITED PESTICIDE APPLICATIONS WILL BE DONE BY LICENSED PROFESSIONALS UNDER CONTRACT TO THE CONDOMINIUM HOME OWNERS ASSOCIATION. ASIDE FROM PRE-EMERGENT CRAB GRASS CONTROL, ALL OTHER PESTICIDE APPLICATIONS WILL BE DONE ON AN AS-NEEDED BASIS, NOT A PREVENTATIVE BASIS.
3. HOUSEHOLD GARBAGE AND TRASH WILL BE DISPOSED OF IN WATER-TIGHT STEEL CONTAINERS AND WILL BE PLACED ON PAVED AND CURBED AREAS, AND WILL BE COLLECTED BY A LOCAL CONTRACTOR ON A REGULAR BASIS TO AVOID OVER-FILLING.
4. MAINTENANCE OF VEHICLES, EXCEPT FOR WASHING, WILL NOT BE PERMITTED ON THE GROUNDS OF STONY BROOK CONDOMINIUMS. STORAGE OF ABANDONED VEHICLES WILL NOT BE PERMITTED.
5. PET WASTES WILL BE REQUIRED TO BE PICKED UP AND DISPOSED OF PROPERLY BY OWNERS (BE A DOG POOPER SCOOPER RULE).
6. THE CONDOMINIUM HOME OWNERS ASSOCIATION WILL DISTRIBUTE TO ALL MEMBERS AN ANNUAL EDUCATIONAL FLYER REGARDING PROTECTION OF GROUND-WATER QUALITY. THE FLYER WILL EMPHASIZE THAT THE SOURCE FOR THEIR DRINKING WATER IS THE DOVER PLAINS WATER COMPANY WELL FIELD DIRECTLY SOUTH OF THEIR RESIDENCES. AND THAT DUMPING HOUSEHOLD CHEMICALS, SUCH AS SOLVENTS, PAINT THINNERS, CLEANING PRODUCTS, ANTIFREEZE, GASOLINE OTHER FUELS AND OILS DOWN TOILETS OR BASIN DRAINS, OR ON THE GROUND, CAN IMPERIL THEIR DRINKING WATER.

TOWN OF DOVER EROSION & SEDIMENT CONTROL NOTES:

A. EXCAVATION, FILLING, GRADING AND STRIPPING SHALL BE PERMITTED TO BE UNDERTAKEN ONLY IN SUCH LOCATIONS AND IN SUCH A MANNER AS TO MINIMIZE THE POTENTIAL OF EROSION AND SEDIMENT AND THREAT TO THE HEALTH, SAFETY AND WELFARE OF NEIGHBORING PROPERTY OWNERS AND THE GENERAL PUBLIC.

B. SITE PREPARATION AND CONSTRUCTION SHALL BE FITTED TO THE VEGETATION, TOPOGRAPHY AND OTHER NATURAL FEATURES OF THE SITE AND SHALL PRESERVE AS MANY OF THESE FEATURES AS FEASIBLE.

C. THE CONTROL OF EROSION AND SEDIMENT SHALL BE A CONTINUOUS PROCESS UNDERTAKEN AS NECESSARY PRIOR TO, DURING AND AFTER SITE PREPARATION AND CONSTRUCTION.

D. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED BY SITE PREPARATION AT ANY GIVEN TIME.

E. THE EXPOSURE OF AREAS BY SITE PREPARATION SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME PRIOR TO THE CONSTRUCTION OF STRUCTURES OR IMPROVEMENTS OR THE RESTORATION OF THE EXPOSED AREAS TO AN ATTRACTIVE NATURAL CONDITION.

F. MULCHING OR TEMPORARY VEGETATION SUITABLE TO THE SITE SHALL BE USED WHERE NECESSARY TO PROTECT AREAS EXPOSED BY SITE PREPARATION, AND PERMANENT VEGETATION WHICH IS WELL ADAPTED TO THE SITE SHALL BE INSTALLED AS SOON AS PRACTICAL.

G. WHERE SLOPES ARE TO BE REVEGETATED BY SITE PREPARATION, THE SLOPES SHALL NOT BE OF SUCH STEEPNESS THAT VEGETATION CANNOT BE READILY ESTABLISHED OR THAT PROBLEMS OF EROSION OR SEDIMENT MAY RESULT.

H. SITE PREPARATION AND CONSTRUCTION SHALL NOT ADVERSELY AFFECT THE FREE FLOW OF WATER BY ENCROACHING ON, BLOCKING OR RESTRICTING WATERCOURSES.

I. ALL FILL MATERIAL SHALL BE OF A COMPOSITION SUITABLE FOR THE ULTIMATE USE OF THE FILL, FREE OF RUBBISH AND CAREFULLY RESTRICTED IN ITS CONTENT OF BRUSH, STUMPS, FREE DEBRIS, ROCKS, FROZEN MATERIAL AND SOFT OR EASILY COMPRESSED MATERIAL.

J. FILL MATERIAL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT PROBLEMS OF EROSION, AND, WHERE THE MATERIAL IS TO SUPPORT STRUCTURES, IT SHALL BE COMPACTED TO A MINIMUM OF 90% OF STANDARD PROCTOR WITH PROPER MOISTURE CONTROL.

K. ALL TOPSOIL WHICH IS EXCAVATED FROM A SITE SHALL BE STOCKPILED AND USED FOR THE RESTORATION OF THE SITE, AND SUCH STOCKPILES, WHERE NECESSARY, SHALL BE SEEDED OR OTHERWISE TREATED TO MINIMIZE THE EFFECTS OF EROSION.

L. PRIOR TO, DURING AND AFTER SITE PREPARATION AND CONSTRUCTION, AS INTEGRATED DRAINAGE SYSTEM SHALL BE PROVIDED WHICH AT ALL TIMES MINIMIZES EROSION, SEDIMENT, HAZARDS OF SLOPE INSTABILITY AND ADVERSE EFFECTS ON NEIGHBORING PROPERTY OWNERS.

M. THE NATURAL DRAINAGE SYSTEM SHALL GENERALLY BE PERSEVERED IN PREFERENCE OF MODIFICATIONS OF THIS SYSTEM, EXCEPT WHERE SUCH MODIFICATIONS ARE NECESSARY TO REDUCE LEVELS OF EROSION AND SEDIMENT AND ADVERSE EFFECTS ON NEIGHBORING PROPERTY OWNERS.

N. ALL DRAINAGE SYSTEMS SHALL BE DESIGNED TO HANDLE ADEQUATELY ANTICIPATED FLOWS BOTH WITHIN THE SITE AND FROM THE ENTIRE UPSTREAM DRAINAGE BASIN.

O. SUFFICIENT GRADES AND DRAINAGE FACILITIES SHALL BE PROVIDED TO PREVENT THE PONDING OF WATER, UNLESS SUCH PONDING IS PROPOSED WITHIN SITE PLANS, IN WHICH EVENT THERE SHALL BE SUFFICIENT WATER LEVELS AND TO AVOID STAGNATION.

P. THERE SHALL BE PROVIDED, WHERE NECESSARY TO MINIMIZE EROSION AND SEDIMENT, SUCH MEASURES AS TRENCHES, BERMS, TERRACES, DIVERSIONS AND SEDIMENT, DEBRIS AND RETENTION BASINS.

Q. DRAINAGE SYSTEMS, PLANTINGS AND OTHER EROSION OR SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED AS FREQUENTLY AS NECESSARY TO PROVIDE ADEQUATE PROTECTION AGAINST EROSION AND SEDIMENT AND TO ENSURE THAT THE FREE FLOW OF WATER IS NOT OBSTRUCTED BY THE ACCUMULATION OF SILT, DEBRIS OR OTHER MATERIAL OR BY STRUCTURAL DAMAGE

BASIN CONVERSION NOTES:

1. EXCAVATE STORED SEDIMENTS TO PROPOSED BASIN BOTTOM.
2. REPLACE FILTER FABRIC ON THE TRASH RACK PER TRASH RACK PROTECTION DETAIL.
3. TOP SOIL THE BASIN WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOP SOIL MATERIAL.
4. NO HEAVY EQUIPMENT SHALL BE ALLOWED IN THE BASIN.

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REVISIONS

NO.	DATE	DESCRIPTION
2	JAN. 24, 2007	REVISED PER TE
3	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER TE
5	FEB. 21, 2008	REVISED PER ARB
6	JAN. 25, 2008	REVISED PER DEC & DCHD
7	OCT. 07, 2008	REVISED PER TE
8	NOV. 13, 2009	REV. TAX MAP #'S / SUB. TO TOWN FOR RE-APPROVAL
9	FEB. 18, 2010	ADDED STREET NAME

PROJECT:
STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7065-00-443492 LOT #1
TAX MAP 7065-00-510582 LOT #2

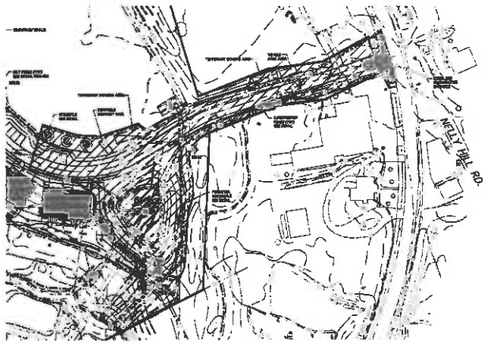
DATE: 04-21-2008
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: EROSION AND SEDIMENT CONTROL PLAN

PROJECT NUMBER: 7748

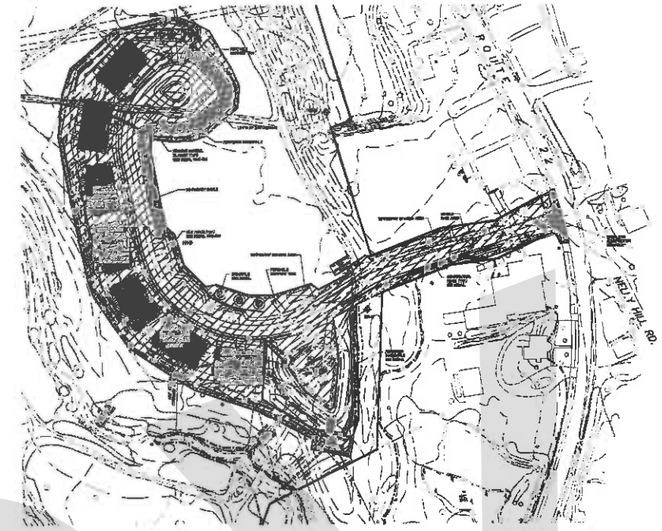
DRAWING NUMBER: C-141

SHEET 8 OF 18



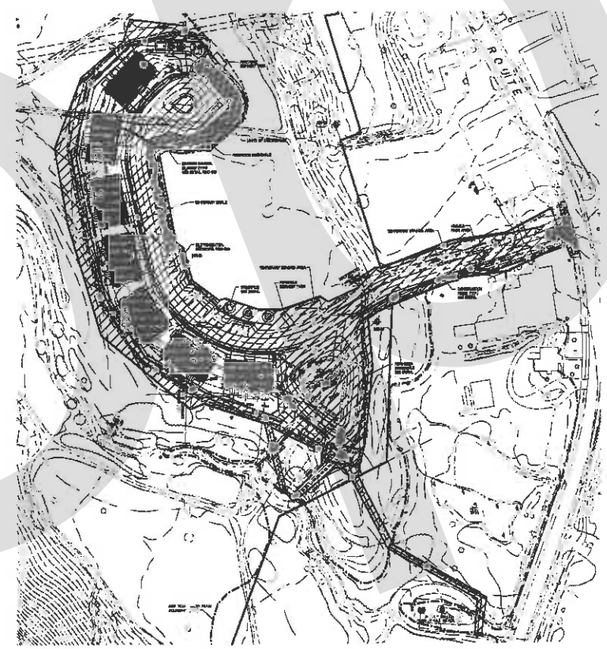
PHASE I - AREA 2.15 AC

PHASE II - AREA 4.97 AC



PHASE III - AREA 4.99 AC

PHASE IV - AREA 4.67 AC



PHASE V - AREA 4.07 AC

STABILIZATION NOTES:

1. TEMPORARY VEGETATIVE COVER:

A. SCARIFY COMPACTED SOIL AREAS.
B. LIME AS REQUIRED TO PH 6.5.
C. FERTILIZE WITH 10-10-10 AT RATE 300 LBS/AC.
D. INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
E. SEED AS FOLLOWS:

* SPRING/SUMMER/EARLY FALL PLANTING: ANNUAL RYEGRASS AND CEREAL OATS AT 50 LBS/ACRE

* LATE FALL/EARLY WINTER PLANTING: ARGOSTOOK WINTER RYE AT 100 LBS/AC.

MULCH SEEDS WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED

DURING WINTER CONSTRUCTION OR PERIODS OF WET WEATHER, TEMPORARY SLOPE STABILIZATION SHALL BE PROVIDED BY EITHER A ROLLED EROSION CONTROL PRODUCT OR A HEAVY MULCH LAYER SUITABLY ANCHORED. THE CONTRACTOR MUST RESEED THE AREA IN THE SPRING WITH THE APPROPRIATE SEEDING.

DURING DRY WEATHER CONSTRUCTION ALL SEEDED AREAS ARE TO BE ADEQUATELY WATERED TO ENSURE VEGETATED COVER.

2. PERMANENT VEGETATIVE COVER:

A. GRADE TO FINISHED SLOPES.
B. SCARIFY COMPACTED SOIL AREAS
C. TOPSOIL WITH NOT LESS THAN FOUR TO INCHES OF SUITABLE TOPSOIL MATERIAL.
D. LIME AS REQUIRED TO PH 6.5.
E. FERTILIZE WITH 10-6-4 AT RATE 300 LBS/AC.
D. SEED AS FOLLOWS:

TYPE I FOR USE ON MOWED AREAS:

SEED	LB/AC
KENTUCKY BLUE GRASS	20
CREEPING RED FESCUE	35
RED TOP OR RYE GRASS	5

TYPE II FOR USE IN DETENTION BASINS AND ON NON-MOWED AREAS: USE "NEW ENGLAND EROSION CONSERVATION/WILDLIFE" SEED MIX (NEW ENGLAND WETLAND PLANTS, INC. OR EQUIVALENT. SEEDS INCLUDED IN THE MIX ARE LISTED BELOW. APPLICATION RATE 25 LBS/ACRE.

SWITCHGRASS	PRAIRIE BROMEGRASS	WOODLAND SUN-HARSHOLD
BIG BLUESTEM	CANADA WILD RYE	SNOW TEAK-TREFOIL
LITTLE BLUESTEM	PLAIN-TOP ASTER	GRASS LEAVED GOLDENROD
FOX SEDGE	PARTRIDGE PEA	COMMON MILKWEED
SILKY SMOOTH ASTER	PENNSYLVANIA SMARTWEED	WILD BLUE LUPINE

WILDFLOWER AREAS TO BE MOWED ONCE PER YEAR IN LATE FALL.

MULCH SEEDS WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.

FOR DISTURBED AREAS WITH SLOPE GREATER THAN 1:3H OR WHEN SLOPES ARE EQUAL TO 1:3H AND THE HEIGHT OF THE SLOPE EXCEEDS 6', INSTEAD OF MULCHING, EROSION CONTROL BLANKET SHALL BE USED.

EROSION AND SEDIMENT CONTROL PLAN

GRAPHIC SCALE

(SHEET)
1 inch = 100 feet

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REVISIONS:		
NO.	DATE	DESCRIPTION
1	JAN. 29, 2007	REVISED PER TE
2	OCT. 07, 2007	REVISED PER TOWN PLANNING BOARD
3	DEC. 07, 2007	REVISED PER TE
4	NOV. 04, 2008	REVISED PER TE
5	FEB. 24, 2009	REVISED PER ARB
6	JUN. 29, 2009	REVISED PER REG. & SUBD
7	OCT. 07, 2009	REVISED PER TE
8	NOV. 05, 2009	REVISED PER TE
9	APRIL 19, 2010	REVISED PER TE - 30 TO SUBMIT FOR RE-APPROVAL

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7030-00-443972 LOT 6
TAX MAP 7030-00-452992 LOT 10

DATE: 0-29-2009
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

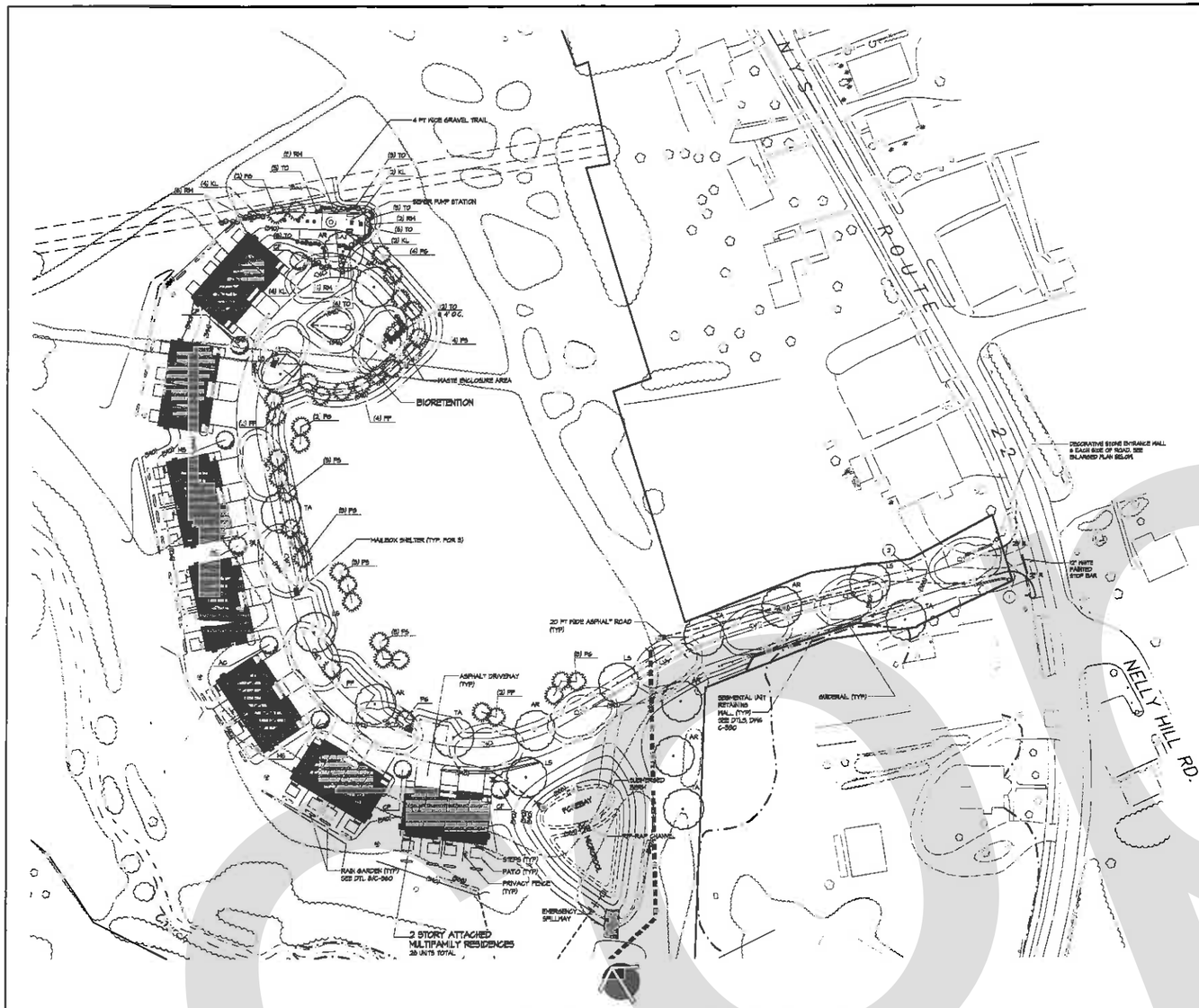
DRAWING: EROSION AND SEDIMENT CONTROL PLAN

PROJECT NUMBER: 7148

DRAWING NUMBER: C-142

SHEET 4 OF 15

COPY



LANDSCAPING & LIGHTING PLAN

GRAPHIC SCALE

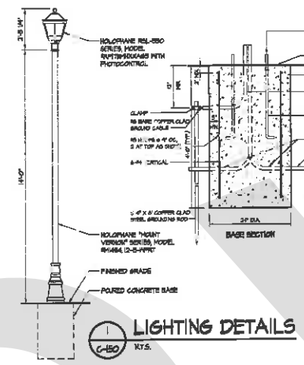
1 inch = 30 feet

LIGHTING NOTES:

1. ALL EXTERIOR LIGHTING TO BE INSTALLED SHALL BE DOWNWARD DIRECTED AND SHALL NOT RESULT IN LIGHT SPILLING OFF THE SITE. POLE MOUNTED LIGHTING SHALL BE INSTALLED WITH CUT-OFF LUMINAIRES.
2. THE PLANNING BOARD APPROVAL PROCESS IS BASED ON PHOTOMETRIC LAYOUTS OF THE SPECIFIED PRODUCT. ANY SUBSTITUTIONS MAY REQUIRE ADDITIONAL PHOTOMETRIC LAYOUTS, AS WELL AS THE PLANNING BOARD'S APPROVAL.

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	Lumens	LLF	Watts
+	A	[illegible]	[illegible]	[illegible]	175W CLEAR MH	[illegible]	[illegible]	[illegible]



LIGHTING DETAILS

C-150 N.T.S.

LEGEND:

- SIGN WITH DESIGNATION NUMBER
- CURB
- GUIDE RAIL
- LIGHT POLE
- RETAINING WALL
- STONE RETAINING WALL
- LIGHT POLE
- 10.0 FOOTCANDLES
- 1.0 FOOTCANDLES
- 0.5 FOOTCANDLES

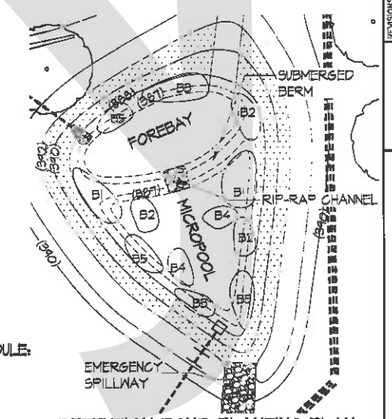
DETENTION & BIORETENTION PLANTING SCHEDULE:

SEED MIX TYPE I OF PERMANENT VEGETATIVE COVER. REFER TO "EROSION AND SEDIMENT CONTROL PLAN", DRAWING C-141, STABILIZATION NOTES.

SEED MIX TYPE II OF PERMANENT VEGETATIVE COVER. REFER TO "EROSION AND SEDIMENT CONTROL PLAN", DRAWING C-141, STABILIZATION NOTES.

SEED WILL BE BROADCAST BY HAND OR WITH KNAPSACK SEEDER AT THE PROPER SEEDING RATE. FOR SOIL PREPARATION AND MULCHING INSTRUCTIONS REFER TO SLOPE STABILIZATION NOTES INCLUDED IN SEQUENCE OF CONSTRUCTION LISTED ON "EROSION AND SEDIMENT PLAN", DRAWING RC-141. SEDING WILL BE SUPPLEMENTED WITH BARE ROOT PLANT MATERIAL AT SPACING OF 2 FEET ON CENTER AS SHOWN ON PLAN. THE FOLLOWING SPECIES ARE TO BE USED:

SYMBOL	PLANTING	# OF PLANTS
B1	TYPHA LATIFOLIA (BROADLEAF CATTAIL)	50
B2	SCIRPUS AMERICANUS (COMMON THREE-SQUARE)	50
B3	JUNCUS EFFUSUS (SOFT RUSH)	70
B4	SPARGANIUM EURYCARPUM (BUR-REED)	50
B5	IRIS VERSICOLOR (BLUEFLAG)	50
B6	PANICUM VIRGATUM (SWITCHGRASS)	40



DETENTION POND PLANTING PLAN

N.T.S.

PLANTING NOTES:

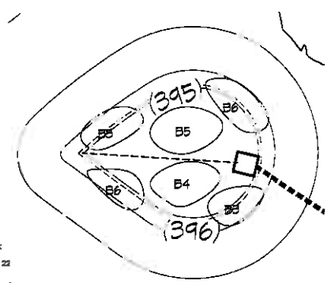
1. NO PARKING OR STORAGE OF MATERIALS WILL BE PERMITTED UNDER DRIP LINE OF EXISTING TREES AND SHRUBS TO REMAIN.
2. ALL PLANT MATERIALS SHALL BE NURSERY GROWN, FULLY FORMED AND IN A HEALTHY CONDITION FREE OF INSECTS, PESTS, DISEASE OR DAMAGE AT THE TIME OF INSTALLATION.
3. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN.
4. ALL LANDSCAPING SHOWN SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION THROUGHOUT THE DURATION OF THE USE BEING SERVED. PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH HEALTHY NEW PLANTS OF COMPARABLE SIZE, TYPE AND QUANTITY AT THE BEGINNING OF THE NEXT IMMEDIATELY FOLLOWING GROWING SEASON.
5. LAWN AREAS SHALL BE SEEDED WITH THE FOLLOWING MIXTURE AT A RATE OF 9 LBS/1000 S.F.:

   KENTUCKY BLUE GRASS 20 LBS/ACRE
   CREEPING RED FESCUE 20 LBS/ACRE
   RED TOP OR RYE GRASS 5 LBS/ACRE

   MULCH WITH STRAW AT THE RATE OF 40 LBS PER 1000 S.F.
6. SEED DETENTION BASIN AS NOTED IN THE DETENTION BASIN PLANTING LEGEND ON DRAWING.
7. SEED ALL OTHER DISTURBED AREAS IN ACCORDANCE WITH THE "STABILIZATION NOTES" ON DRAWING RC-141.
8. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES BEFORE PROCEEDING WITH WORK.

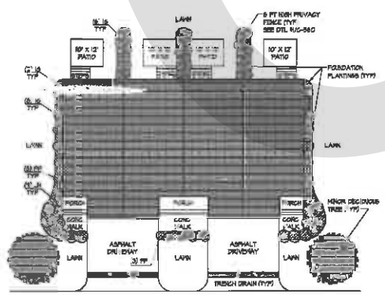
PLANTING SCHEDULE

SYM.	NAME	SIZE	ROOT	QTY.
TO	DARK AMERICAN ARBORVITAE/THUJA OCCIDENTALIS 'NIGRA'	6'-8' HGT.	B&B	41
PG	WHITE SPRUCE/PICEA GLAUCA	6'-8' HGT.	B&B	13
PP	COLORADO SPRUCE/PICEA PUNGENS	6'-8' HGT.	B&B	9
PS	EASTERN WHITE PINE/PINUS STROBUS	6'-8' HGT.	B&B	13
LS	AMERICAN SWEETGUM/ LIQUIDAMBAR STYRACIFLUA	3" CAL.	B&B	5
TA	AMERICAN LINDEN/TILIA AMERICANA 'REDMOND'	3" CAL.	B&B	5
AR	REDBUD/CERCIS CANADENSIS	6'-8' HGT.	B&B	7
RM	ROSEBAY/ RHODODENDRON MAXIMUM	5'-6' HGT.	CONT.	17
KL	MOUNTAIN LAUREL/ KALMIA LATIFOLIA	5'-6' HGT.	CONT.	14



BIORETENTION PLANTING PLAN

N.T.S.

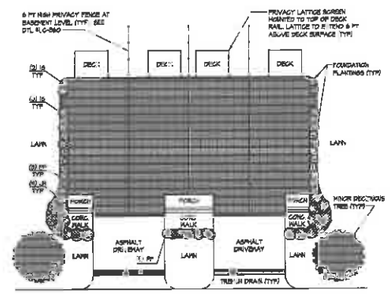


TYPICAL BUILDING with PATIO PLANTING PLAN

SCALE: 1"=20'

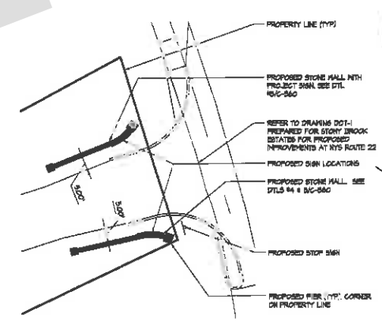
BUILDING PLANT SCHEDULE

SYM.	NAME	SIZE	ROOT
	FOUNDATION PLANTINGS:		
IG	ILEX GLABRA 'COMPACTA' / COMPACT INKBERRY	2.5'-3' HGT.	CONT
JH	JUNIPERUS HORIZONTALIS 'BAR HARBOR' / BAR HARBOR JUNIPER	18-24" HGT.	CONT
PF	POTENTILLA FRUTICOSA 'GOLDFINGER' / POTENTILLA	2-2.5' HGT.	CONT
	MINOR DECIDUOUS TREES:		
AC	AMELANCHIER CANADENSIS / SHADBLOW SERVICEBERRY	7-8' HGT.	B&B
CF	CORNUS FLORIDA / FLOWERING DOGWOOD	7-8' HGT.	B&B
CP	CRATAEGUS PHAENOPYRUM / WASHINGTON HAWTHORN	7-8' HGT.	B&B
MS	MALUS 'SNOWDRIFT' / WHITE FLOWERING CRABAPPLE	7-8' HGT.	B&B



TYPICAL BUILDING with DECK PLANTING PLAN

SCALE: 1"=20'



ENLARGED PLAN at ENTRANCE

SCALE: 1"=20'

MICHAEL J. BUDZINSKI, P.E.
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REVISIONS

NO.	DATE	DESCRIPTION
1	JAN. 24, 2007	REVISED PER TE
2	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
3	DEC. 04, 2007	REVISED PER TE
4	FEB. 01, 2008	REVISED PER TOWN
5	JUN. 25, 2008	REVISED PER DEC 1 LOAD
6	OCT. 07, 2008	REVISED PER TE
7	NOV. 05, 2008	REV. TO MAP 69 / SUB. TO TOWN FOR RE-APPROVAL
8	FEB. 18, 2009	REVISED PER TE

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7062-00-462843 LOT 16
TAX MAP 7062-00-466062 LOT 19

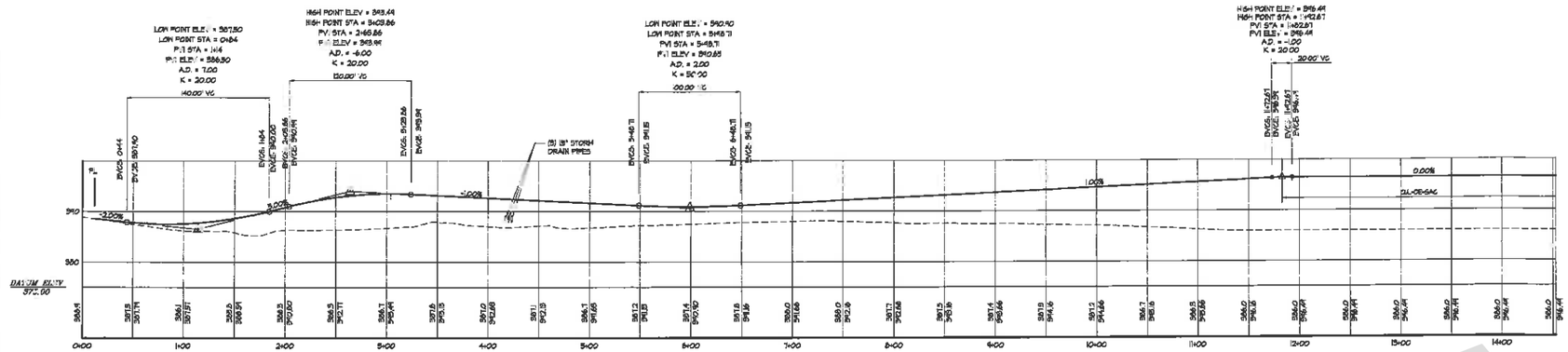
DATE: 9-29-2006
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: LANDSCAPING AND LIGHTING PLAN

PROJECT NUMBER: 7149

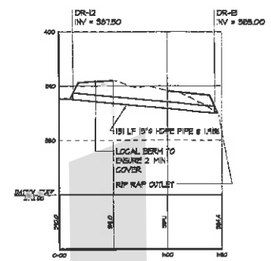
DRAWING NUMBER: C-150

SHEET 10 OF 16



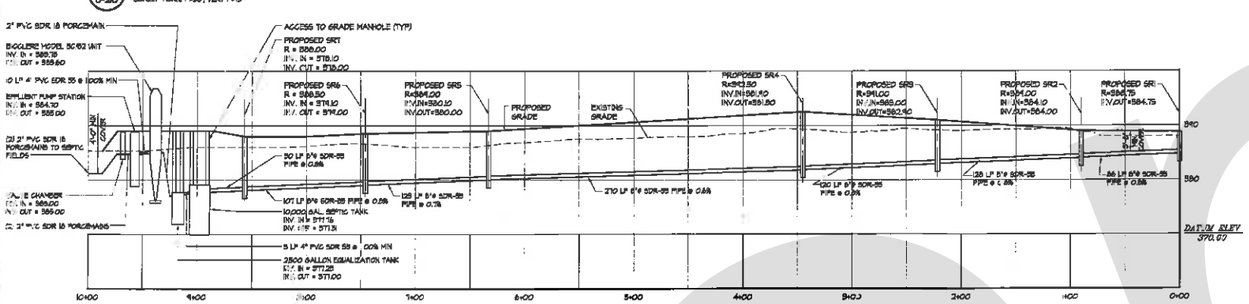
1 C-210 ROAD PROFILE

SCALE: HORIZ 1"=50', VERT 1"=10'



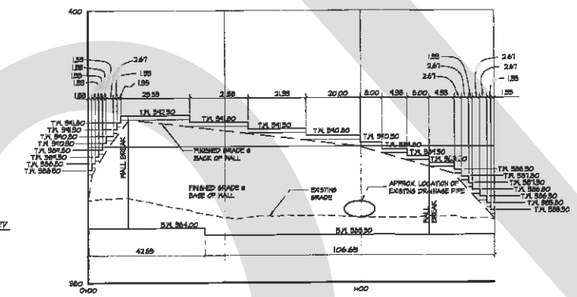
DR12 to DR13

SCALE: HORIZ 1"=50', VERT 1"=10'



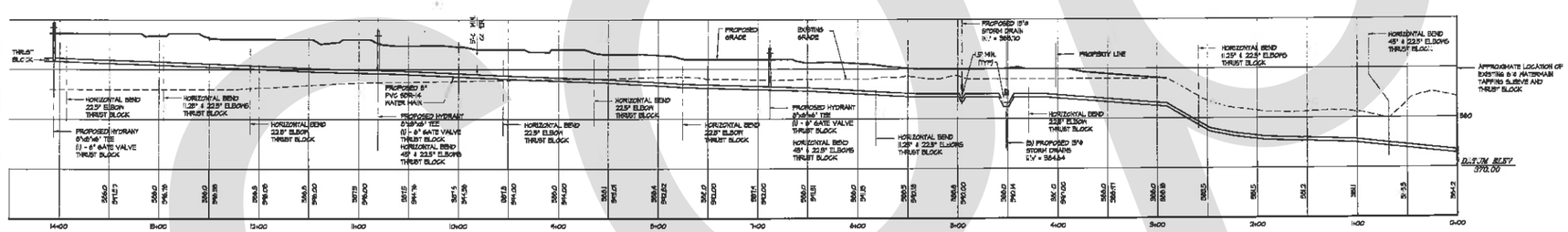
2 C-210 SEWER PROFILE

SCALE: HORIZ 1"=50', VERT 1"=10'



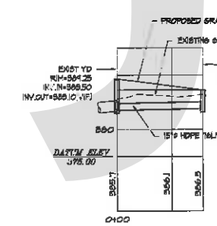
RETAINING WALL PROFILE

SCALE: HORIZ 1"=20', VERT 1"=4'



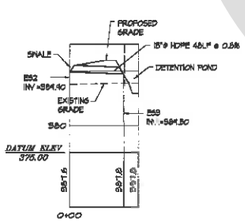
5 C-210 WATER PROFILE

SCALE: HORIZ 1"=50', VERT 1"=10'



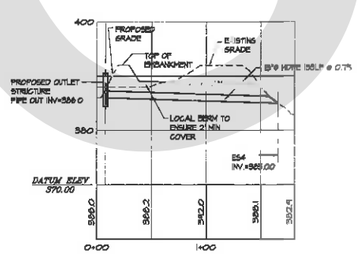
YD1 - EXISTING YD

SCALE: HORIZ 1"=50', VERT 1"=10'



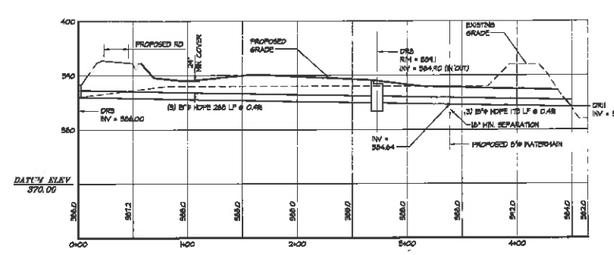
ES2 - ES3

SCALE: HORIZ 1"=50', VERT 1"=10'



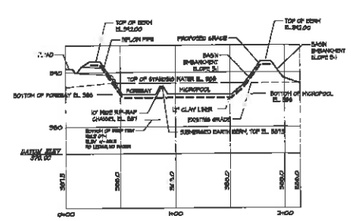
OS1 - ES4

SCALE: HORIZ 1"=50', VERT 1"=10'



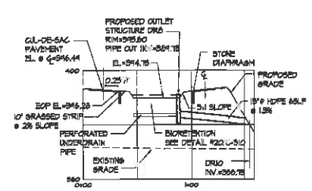
TRIPLE PIPE UNDER THE ROAD

SCALE: HORIZ 1"=50', VERT 1"=10'



DETENTION POND PROFILE

SCALE: HORIZ 1"=50', VERT 1"=10'



CUL-DE-SAC PROFILE

SCALE: HORIZ 1"=50', VERT 1"=10'

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REVISIONS			
NO.	DATE		DESCRIPTION
1	JUN 14, 2011		REVISED PER TOWN
2	SEP 01, 2011		REVISED PER TOWN PLANNING BOARD
3	SEP 01, 2011		REVISED PER TE
4	DEC. 04, 2011		REVISED PER TE
5	FEB. 2, 2012		REVISED PER ARB
6	FEB. 16, 2012		REVISED PER TE & DOH
7	OCT. 01, 2012		REVISED PER TE
8	NOV. 06, 2017		REV. TAX MAP #'s / SEE TO TOWN FOR RE-APPROVAL
9	FEB. 5, 2020		ADDED STREET LIGHT

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7065-00-143943 LOT 16
TAX MAP 7065-00-152863 LOT 12

DATE	06-26-2006
PR. ELEV. DATUM	NGVD
DRAWN BY	MJB
CHECKED BY	MJB
DATE	07-07-2006
SCALE	AS NOTED

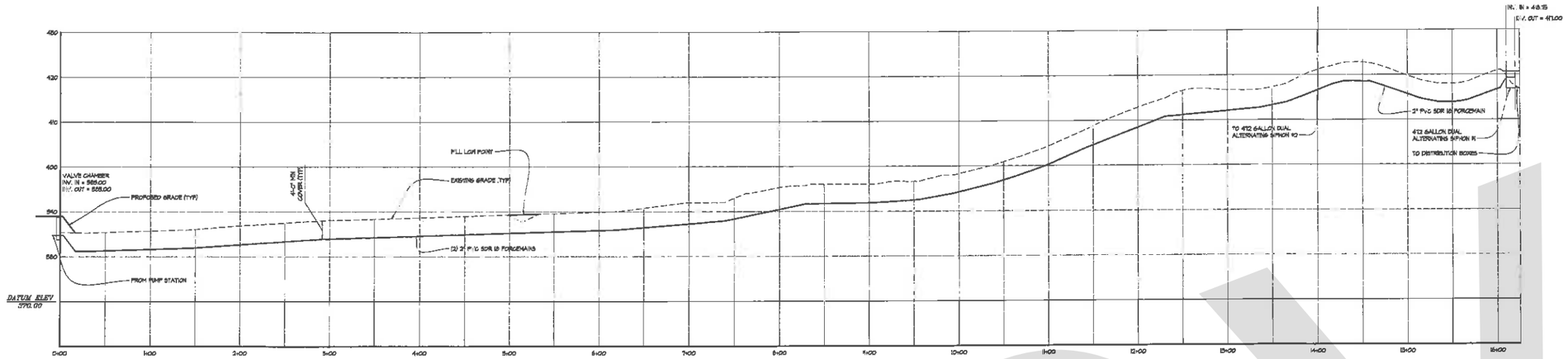
DRAWING: ROAD & UTILITY PROFILES

PROJECT NUMBER: 7748

DRAWING NUMBER: C-210

SHEET 11 OF 16

COPY



1 / C-211 SEWER FORCEMAIN PROFILE

SCALE: HORIZ 1"=80', VERT 1"=10'

COPY

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CONSULTING ENGINEER
391 MAHANS ROAD SOUTH, PATTERSON, NEW YORK 12563
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REVISIONS		
NO.	DATE	DESCRIPTION
2	JAN. 24, 2007	REVISED PER T.E.
3	SEP. 27, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER T.E.
5	FEB. 21, 2008	REVISED PER ARB
6	JUN. 25, 2008	REVISED PER DEC. & DOED
7	OCT. 27, 2008	REVISED PER T.E.
8	NOV. 05, 2008	REV. TM NW #1 / SUB. TO DWR FOR RE-APPROVAL
9	FEB. 18, 2010	AGREED STREET NAME

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN OF DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7066-00-434143 LOT #1
TAX MAP 7066-00-434362 LOT #2

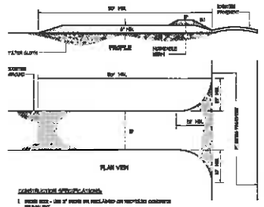
DATE: 01-29-2009
PROJECT MANAGER: M.J.B.
DRAWN BY: H.B.
CHECKED BY: M.J.B.
SCALE: AS NOTED

DRAWING: SEPTIC PROFILES

PROJECT NUMBER: T749

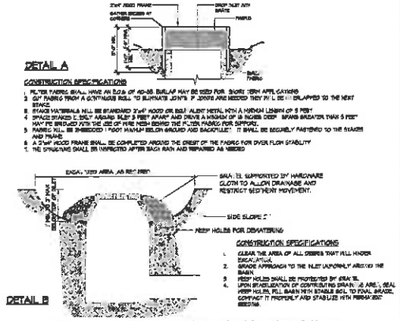
DRAWING NUMBER: C-211

SHEET 13 OF 16



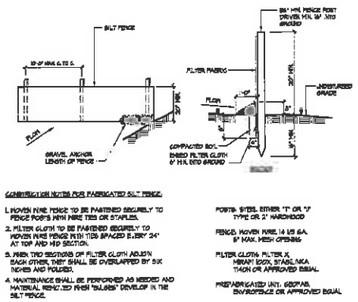
1 C-310 STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.



2 C-310 INLET PROTECTION DETAILS

N.T.S.



3 C-310 SILT FENCE DETAIL

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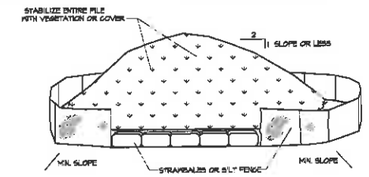
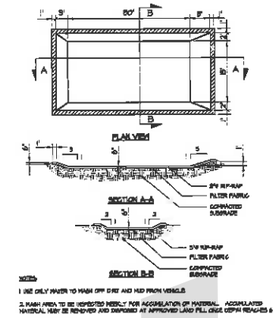


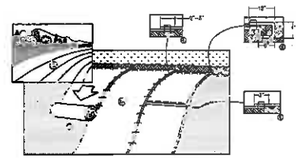
4 C-310 TOPSOIL STOCKPILE DETAIL

N.T.S.



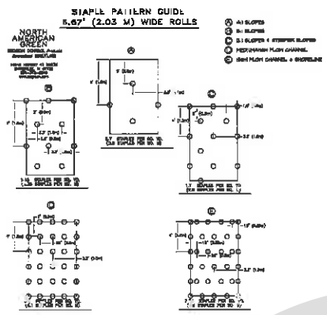
5 C-310 VEHICLE WASH AREA DETAIL

SCALE: 1/2"=1'-0"



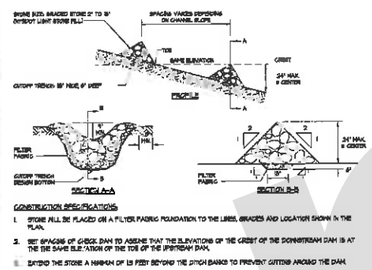
6 C-310 EROSION CONTROL BLANKET INSTALLATION DETAIL

N.T.S.



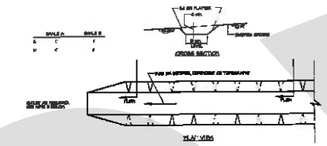
7 C-310 EROSION CONTROL BLANKET STAPLE PATTERNS

N.T.S.



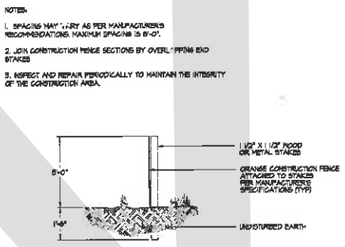
8 C-310 CHECK DAM DETAILS

N.T.S.



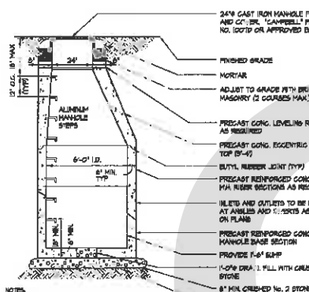
9 C-310 TEMPORARY SWALE DETAIL

N.T.S.



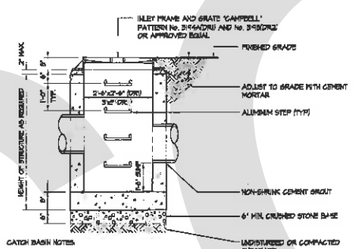
10 C-310 CONSTRUCTION FENCE DETAIL

N.T.S.



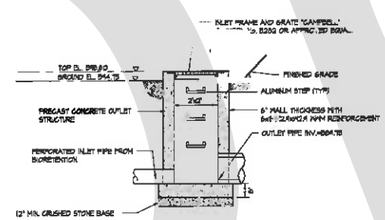
11 C-310 DRAINAGE MANHOLE DETAIL

N.T.S.



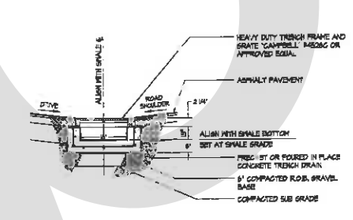
12 C-310 YARD DRAIN DETAIL

N.T.S.



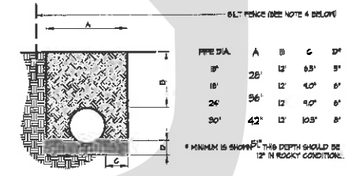
13 C-310 OUTLET STRUCTURE FROM BIORETENTION

N.T.S.



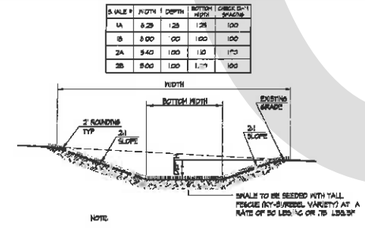
14 C-310 TRENCH DRAIN DETAIL

N.T.S.



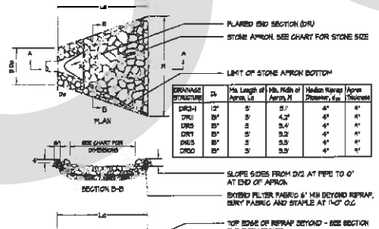
15 C-310 STORM DRAIN TRENCH DETAIL

N.T.S.



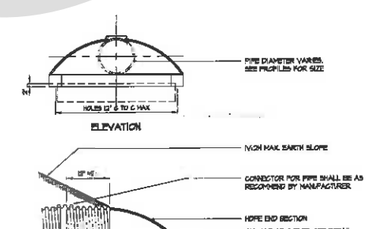
16 C-310 PERMANENT GRASS SWALE DTL.

N.T.S.



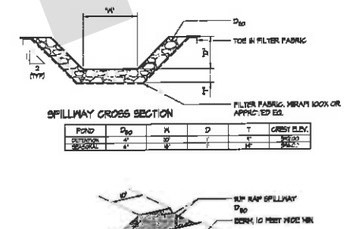
17 C-310 RIP-RAP OUTLET PROTECTION DTL.

N.T.S.



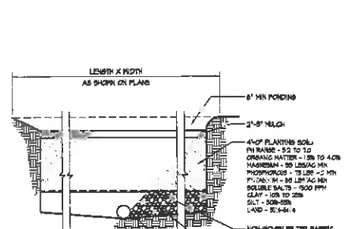
18 C-310 END SECTION DETAIL

N.T.S.



19 C-310 RIP RAP SPILLWAY DETAILS

N.T.S.



20 C-310 BIO-RETENTION BASIN SECTION

N.T.S.

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CONSULTING ENGINEER
591 MAHANUS ROAD SOUTH, PATTERSON, NEW YORK 12563
(845) 878-2036

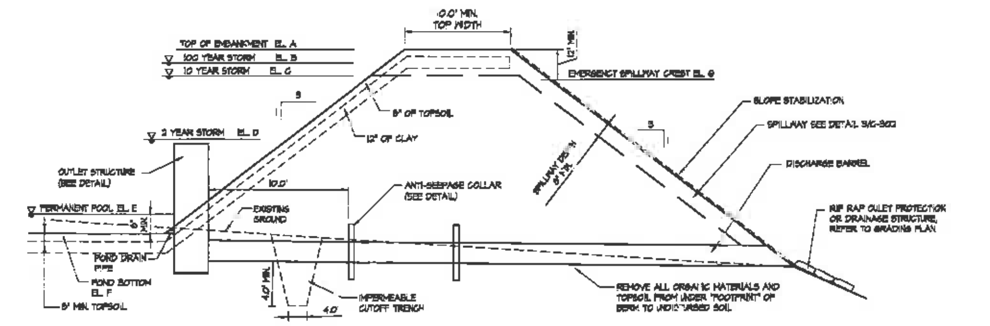
REVISION		
NO.	DATE	DESCRIPTION
1	JUNE 25, 2007	REVISED PER TOWN PLANNING BOARD
2	JUL 16, 2007	REVISED PER NYSDEC
3	DEC. 04, 2007	REVISED PER NYSDEC
4	FEB. 21, 2008	REVISED PER ARB
5	JAN. 29, 2009	REVISED PER DOC. I DOED
6	NOV. 05, 2009	REVISED PER NYSDEC
7	NOV. 05, 2009	RE: TWN TOWN FOR RE-APPROVAL
8	FEB. 18, 2010	ADDED STREET NAME

PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN OF DOVER
DUTCHESS COUNTY, NEW YORK.
TAX MAP 2262-00-442472, LOT 16
TAX MAP 2262-00-390262, LOT 62

DATE: 6-25-2009
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: DETAILS

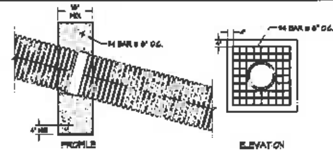
PROJECT NUMBER: 7745
DRAWING NUMBER: C-310
SHEET 18 OF 18



ELEVATION	A	B	C	D	E	F	G
EXTENDED DETENTION P.O.D.	542.20	540.75	540.51	538.54	536.00	537.00	[illegible]

NOTES:
1. DETENTION BASIN TO BE USED AS A TEMPORARY SEDIMENT BASIN DURING THE CONSTRUCTION PHASE. UPON STABILIZATION OF ALL DISTURBED AREAS OF THE SITE, THE BASIN IS TO BE RESTORED TO ORIGINAL GRADES AND SPECIFICATIONS AND PLACED INTO USE AS A DETENTION BASIN.
2. EMBANKMENT FILL MATERIAL SHALL BE FREE FROM ALL ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 6" LIFTS AND COMPACTED TO 95% PROCTOR BY MECHANICAL MEANS. CONTRACTOR SHALL SUBMIT SOIL SAMPLES TO TESTING LAB, SUBMIT COPIES OF REPORT TO PUTNAM ENGINEERING. FILL TO BE PLACED ON SUITABLE INORGANIC SUB GRADE.
3. PRIOR TO POND CLAY LINER INSTALLATION, THE POND AREA MUST BE GRADED TO APPROPRIATE ELEVATIONS. THE SURFACE SHALL BE PREPARED TO BE SMOOTH AND FREE OF ROOTS, ABRUPT CHANGE IN GRADE AND DRY. ANCHOR TRENCH EXCAVATION AND PREPARATION SHALL BE DONE BEFORE THE POND LINER IS INSTALLED.

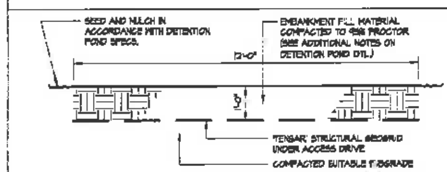
1/C-320 TYPICAL DETENTION POND BERM SECTION
N.T.S.



NOTES
1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
2. PIPE TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
3. VELOCITY REDUCTION METHODS SHALL BE TAKEN WHEN SLOPE CREATES VELOCITY GREATER THAN 20 FPS.

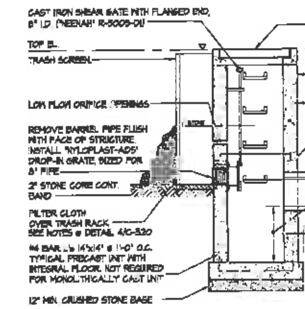
COLLAR SIZE	5'x5'x1'
NUMBER OF COLLARS	2
SPACING	10'

2/C-320 ANTI-SEEPAGE COLLAR DETAIL
N.T.S.



NOTE: THIS DETAIL APPLIES TO MAINTENANCE ACCESS DRIVES LOCATED WITHIN THE DETENTION PONDS

3/C-320 DETENTION POND MAINTENANCE ACCESS DTL.
N.T.S.

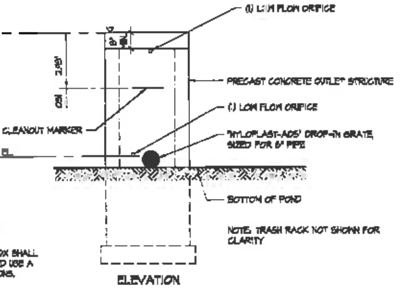


NOTES:
1. OUTLET PIPES SHALL BE INSTALLED WITH ANTI-SEEPAGE COLLARS
2. ALL PIPE CONNECTION TO THE OUTLET BOX SHALL BE FLUSH WITH THE INSIDE OF THE WALL AND USE A WATERTIGHT SEAL FOR ALL THE CONNECTIONS.
3. ALL JOINTS SHALL BE WATERTIGHT.

OUTLET STRUCTURE SCHEDULE

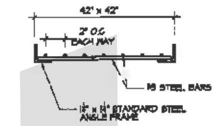
OUTLET STRUCTURE NO.	TOP EL.	INLET BOX OUTSIDE DIMENSION	INLET BOX INSIDE DIMENSION	SUMP EL.	OUTLET EL.	OUTLET PIPE DIA.	LOW FLOW ORIFICE INV. ELEV.	LOW FLOW ORIFICE DIA.	LOW FLOW ORIFICE QTY.	ADDITIONAL ORIFICES INV. ELEV.	ADDITIONAL ORIFICES DIA.	ADDITIONAL ORIFICES QTY.	GRATE ELEV. TOP
OS-1	542.50	4'-0" X 4'-0"	3'-0" X 3'-0"	534.0	[illegible]	15"	[illegible]	1/4"	1	N.A.	N.A.	N.A.	542.00

PERMANENT

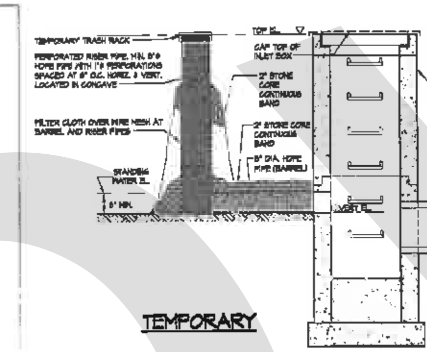


NOTE: TRASH RACK NOT SHOWN FOR CLARITY

ELEVATION

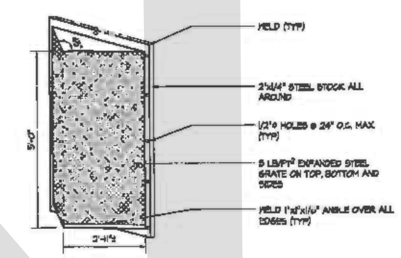


GRATE DETAIL



TEMPORARY

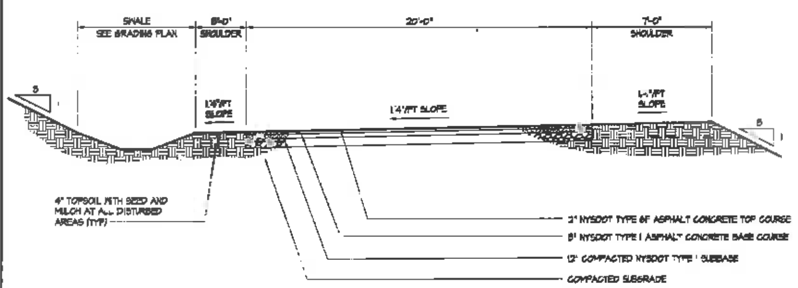
NOTE: PERFORATED STANDPIPE SHALL BE USED UNTIL ALL DISTURBED AREAS OF THE SITE ARE COMPLETELY STABILIZED. AT SUCH TIME, THE STANDPIPE SHALL BE REMOVED AND THE OPENING IN THE OUTLET STRUCTURE CONVERTED TO THE REQUIRED OPENING AS DETAILED IN THE PERMANENT STRUCTURE.



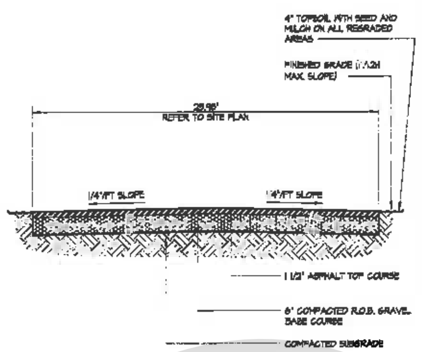
NOTES FOR TRASH RACK:
1. TRASH RACK TO BE CENTERED OVER OPENING(S).
2. STEEL TO CONFORM TO ASTM A-36.
3. ALL SURFACES ARE TO BE COATED WITH ZINC COLD GALVANIZING COMPOUND AFTER WELDING.

PERMANENT TRASH RACK

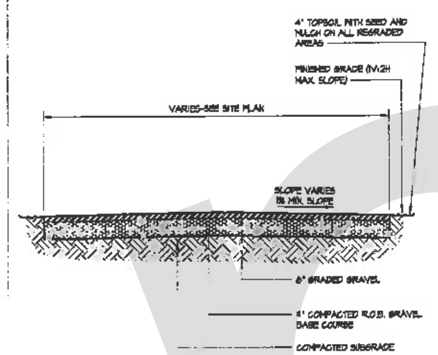
4/C-320 OUTLET STRUCTURE DETAILS
N.T.S.



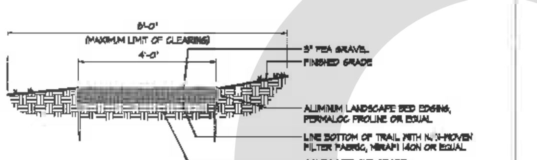
6/C-320 TYPICAL PAVEMENT CROSS SECTION
N.T.S.



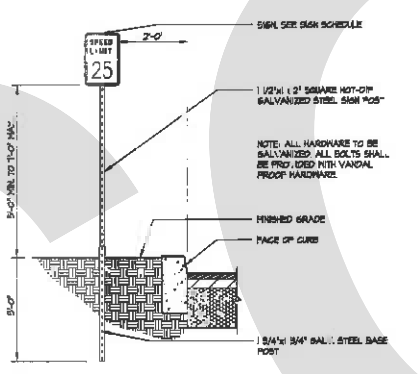
7/C-320 DRIVEWAY DETAIL
N.T.S.



8/C-320 GRAVEL PARKING/DRIVE DETAIL
N.T.S.



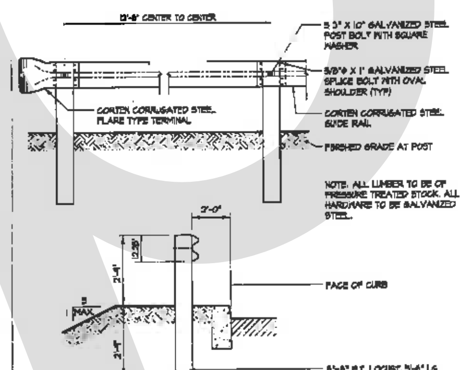
9/C-320 GRAVEL TRAIL DETAIL
N.T.S.



NOTE: ALL HARDWARE TO BE GALVANIZED. ALL BOLTS SHALL BE PROVIDED WITH VANDAL PROOF HARDWARE.

10/C-320 TRAFFIC SIGN DETAIL
SCALE: 1/2"=1'-0"

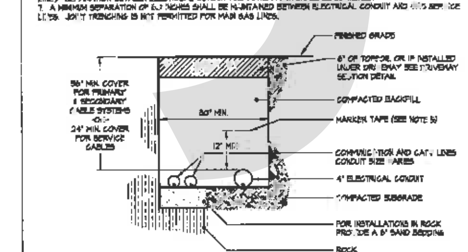
LOC. NO.	TEXT NO.	SIGN	N.Y.S.D.O.T. M.U.T.C.D. NUMBER	SIZE	DESCRIPTION
-	1	STOP	R1-1C	30"x30"	WHITE LETTERS RED BACKGRND.
-	2	SPEED LIMIT 25	-	18"x24"	BLACK LETTERS WHITE BCKGRND.



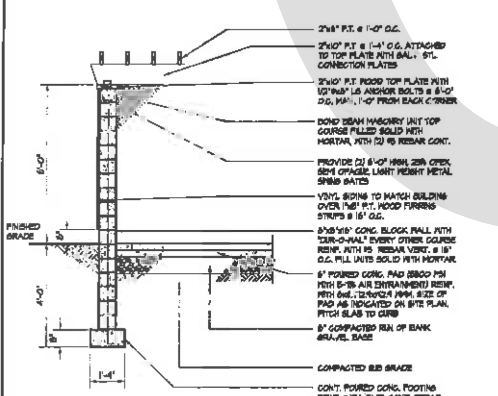
NOTE: ALL LUMBER TO BE OF PRESSURE TREATED STOCK. ALL HARDWARE TO BE GALVANIZED STEEL.

11/C-320 BEAM TYPE GUIDE RAIL DETAIL
N.T.S.

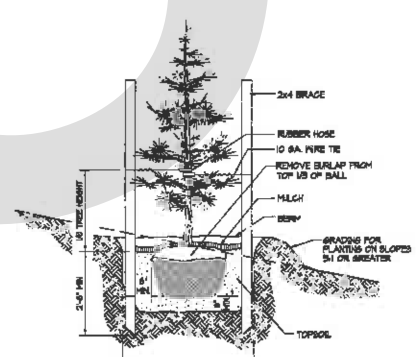
NOTES
1. PER NEW YORK STATE LAW THE CONTRACTOR SHALL CALL THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFPO) AT 1-800-962-7962, TWO (2) FULL DAYS PRIOR TO PERFORMING ANY EXCAVATION WORK.
2. PROVIDE P.V.C. CONDUIT WITH NYLON PULL CORD AS REQUIRED FOR EACH INDIVIDUAL UTILITY LINE. CONTRACTOR TO COORDINATE WITH INDIVIDUAL UTILITY COMPANIES THE DIAMETER OF CONDUIT REQUIRED.
3. CONTRACTOR TO COORDINATE WITH EACH INDIVIDUAL UTILITY COMPANY AND THE DESIGN ENGINEER. ALL REQUIRED INSPECTIONS.
4. MACHINE DIGGING SHALL STOP NOT LESS THAN 18 INCHES FROM VAULTS, FOUNDATIONS, EQUIPMENT, CABLES AND POLES. TRENCHING SHALL BE COMPLETED BY HAND THEREAFTER.
5. ALL ELECTRICAL BURIED CONDUITS SHALL BE IDENTIFIED BY A RED PLASTIC FILM MARKER TAPE, AS SPECIFIED BY THE UTILITY COMPANY. THE MARKER TAPE SHALL RUN DIRECTLY ABOVE THE ENTIRE LENGTH OF EACH CONDUIT SECTION AND SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 12 INCHES.
6. A MINIMUM SEPARATION OF 30 INCHES SHALL BE MAINTAINED BETWEEN ELECTRICAL CONDUIT AND WATER SERVICE LINES. SEPARATION BETWEEN ELECTRICAL CONDUIT AND WATER MAIN SHALL BE 36 INCHES.
7. A MINIMUM SEPARATION OF 60 INCHES SHALL BE MAINTAINED BETWEEN ELECTRICAL CONDUIT AND GAS SERVICE LINES. JOINT TRENCHING IS NOT PERMITTED FOR MAIN GAS LINES.



12/C-320 UTILITY LINE TRENCHING DETAIL
N.T.S.

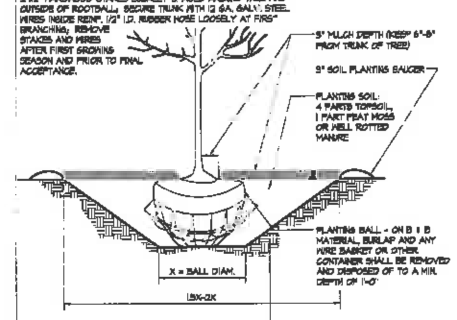


13/C-320 WASTE ENCLOSURE DETAIL
SCALE: 3/8"=1'-0"

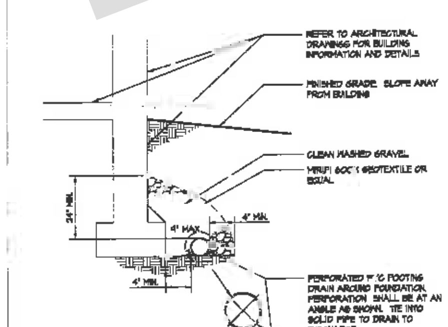


14/C-320 EVERGREEN PLANTING DETAIL
N.T.S.

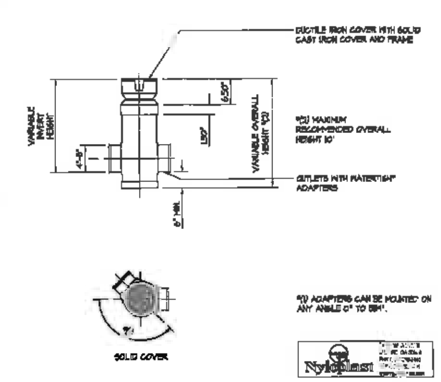
NOTES
1. PRUNE ONLY AS NEEDED TO REMOVE INJURED OR DEAD BRANCHES.
2. FOR TREES OVER 3" CALIPER ONLY: GUY TREE WITH (3) 30" 2"x2" HARDWOOD STAKES EQUALLY SPACED AROUND TREE AND OUTSIDE OF ROOTBALL. SECURE TRUNK WITH 12 GA. GALV. STEEL WIRES INSIDE REINF. 1/2" I.D. RUBBER HOSE LOOSELY AT FIRST BRANCHING. REMOVE STAKES AND WIRES AFTER FIRST GROWING SEASON AND PRIOR TO FINAL ACCEPTANCE.



15/C-320 TREE PLANTING DETAIL
N.T.S.



16/C-320 TYPICAL DRAIN DETAIL
N.T.S.



17/C-320 8" DRAIN BASIN DETAIL
N.T.S.

MICHAEL J. BUDZINSKI, P.E.
CONSULTING ENGINEER
59 McMANUS ROAD SOUTH, PATTERSON, NEW YORK 12563
(845) 878-2026

REVISIONS

NO.	DATE	DESCRIPTION
2	JAN. 24, 2007	REVISED PER TE
3	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER TE
5	FEB. 21, 2008	REVISED PER ARB
6	JUN. 23, 2008	REVISED PER DEC & DOH
7	OCT. 07, 2008	REVISED PER TE
8	NOV. 05, 2009	REV. TAX MAP #'S / SUB. TO TOWN FOR RE-APPROVAL
9	FEB. 18, 2010	ADDED STREET NAME

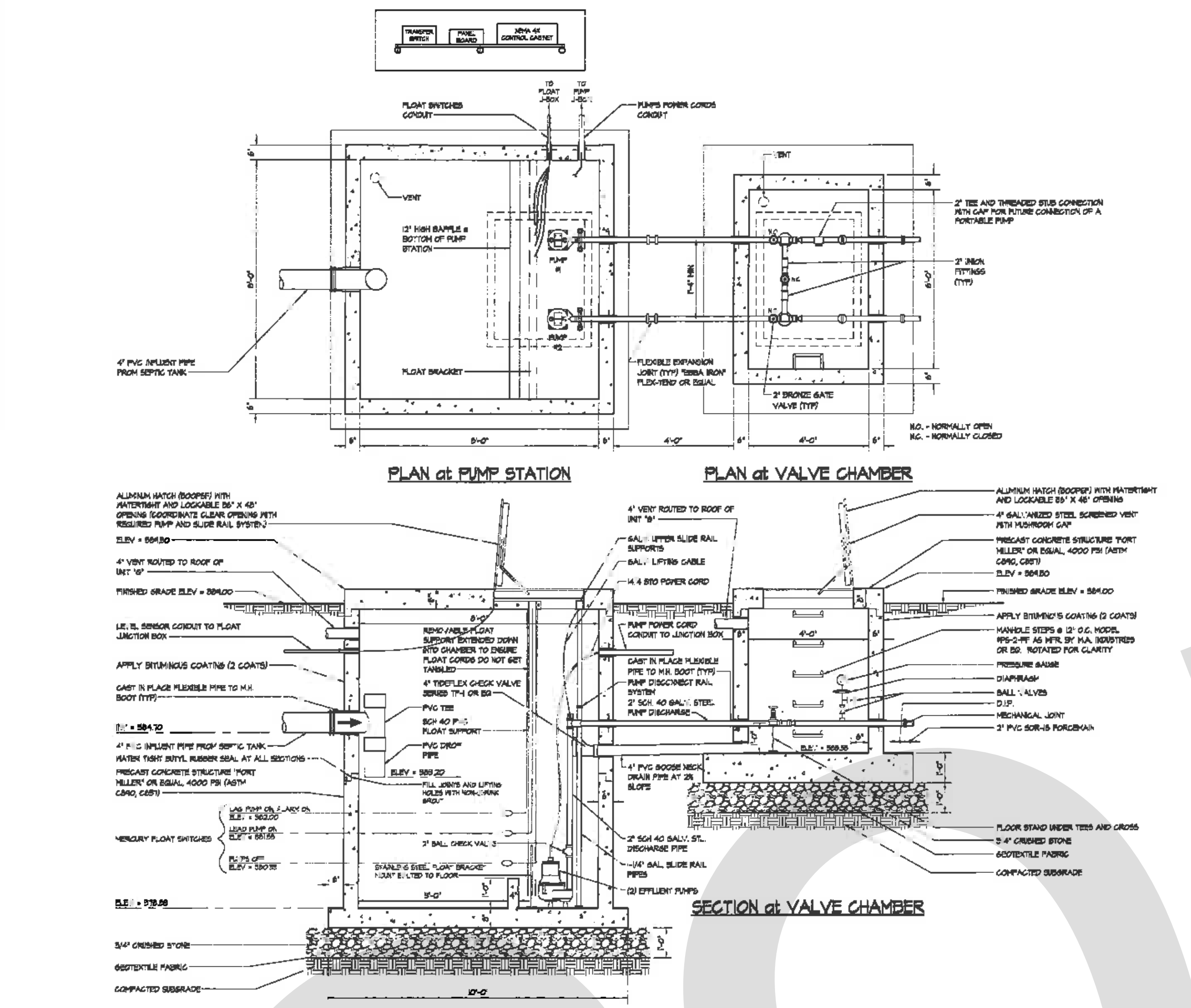
PROJECT:
STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7063-00-443492 LOT #1
TAX MAP 7063-00-540862 LOT #2

DATE: 01-25-2008
PROJECT MANAGER: KJB
DRAWN BY: KJB
CHECKED BY: KJB
SCALE: AS NOTED

DRAWING: DETAILS

PROJECT NUMBER: TH3
DRAWING NUMBER: C-320

COPY



NOTES:

1. ALL ELECTRICAL EQUIPMENT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE FOR CLASS I, DIVISION I, GROUPS C & D LOCATIONS.
2. PUMPS ARE TO ALTERNATE AUTOMATICALLY.
3. PRIOR TO INSTALLATION OF PUMP STATION, CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REQUIREMENTS WITH THE MANUFACTURER'S MOST RECENT PRINTED INSTRUCTIONS.
4. ALL ELECTRICAL SERVICES SHALL BE INSTALLED UNDERGROUND AND IN ACCORDANCE WITH ALL APPLICABLE CODES.
5. THE PUMP STATION SHALL INCLUDE CONTROLS WHICH SHALL BE TELEMETERED TO A POLICE STATION 24 HOURS A DAY.
6. AN ELECTRICAL UNDERWRITER'S CERTIFICATE FOR THE PUMP STATION MUST BE PROVIDED TO THE DCHD PRIOR TO THE DCHD CONDUCTING A FINAL INSPECTION ON THE PUMP STATION.
7. NON-SHRINK WATERTIGHT GROUT TO BE USED AT ALL PIPE ENTRANCES AND EXITS AT THE WET WELL.
8. CONTRACTOR SHALL VERIFY PUMP SIZING WITH MANUFACTURER AND SUPPLIER PRIOR TO ORDERING.
9. CONTRACTOR SHALL DETERMINE LENGTHS OF REQUIRED ELECTRICAL CABLE AND AVAILABLE VOLTAGES PRIOR TO ORDERING EQUIPMENT.

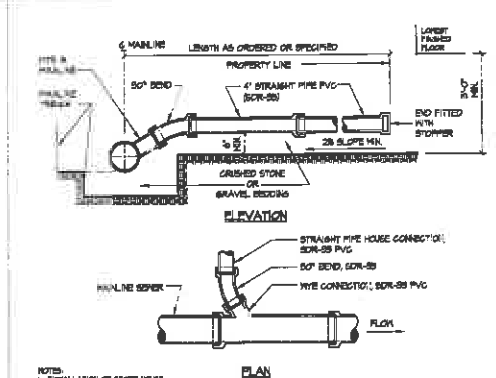
PUMP SPECIFICATIONS

GOULDS DUPLEX SERIES 3888, MODEL WE20H
2.0 H.P., 230 VOLT, 3 PHASE

PUMP OPERATING ELEVATIONS

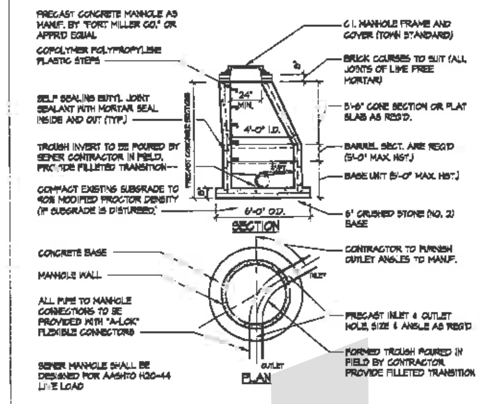
GROUND ELEVATION	584.00
4" PVC INLET INV. IN	584.70
2" FORCEMAIN INV. OUT	583.00
TWO PUMPS ON	582.00
HIGH LEVEL ALARM	582.00
ONE PUMP ON	581.55
PUMPS OFF	580.55
BOTTOM OF PUMP PIT	578.58

1/C-330 PUMP STATION DETAILS
SCALE: AS NOTED



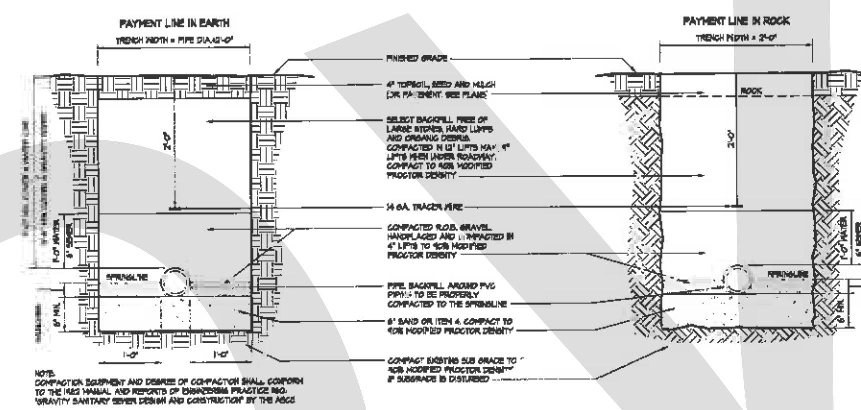
NOTES:
1. INSTALLATION OF SEWER HOUSE CONNECTIONS TO BE INSPECTED AND APPROVED BY THE TOWN ENGINEER.

2/C-330 SEWER SERVICE CONNECTION DTL.
N.T.S.



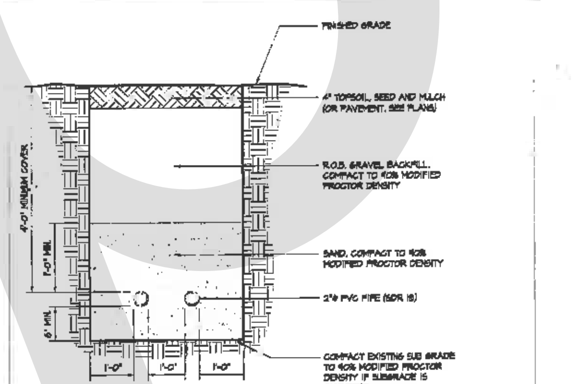
SEWER MANHOLE SHALL BE DESIGNED FOR AASHTO H20-44 LIVE LOAD

3/C-330 SEWER MANHOLE DETAIL
N.T.S.

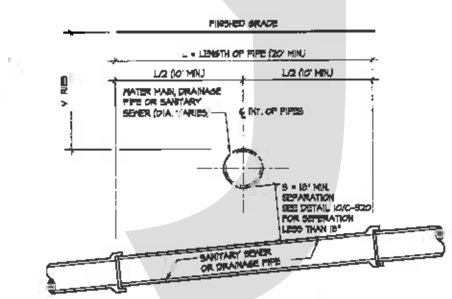


NOTE:
COMPACTION EQUIPMENT AND DEGREE OF COMPACTION SHALL CONFORM TO THE 1982 MANUAL AND REPORTS OF ENGINEERING PRACTICE NO. "GRAVITY SANITARY SEWER DESIGN AND CONSTRUCTION" BY THE ASCE

4/C-330 SEWER & WATER UTILITY TRENCH DETAILS
N.T.S.



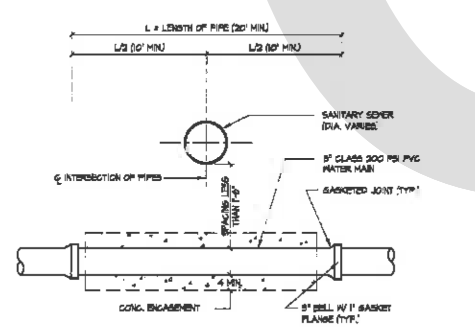
5/C-330 FORCE MAIN TRENCH DETAIL
SCALE: 1"=1'-0"



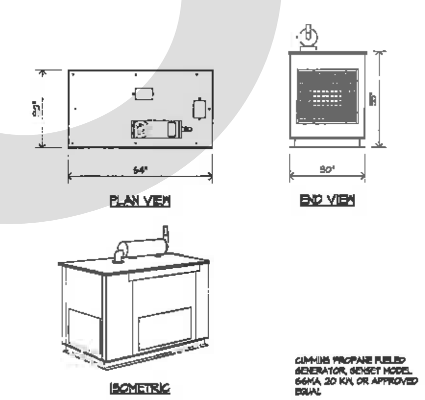
NOTES: DETAIL IS APPLICABLE FOR THE FOLLOWING:
WATER CROSSING SEWER
WATER CROSSING DRAINAGE
DRAINAGE CROSSING SEWER
SEWER CROSSING DRAINAGE

REFER TO DTL. #7/C-330 FOR SEWER LINE CROSSING WATERLINE DETAIL.

6/C-330 UTILITY PIPE CROSSING DETAIL
N.T.S.
SEPARATION GREATER THAN OR EQUAL TO 18"

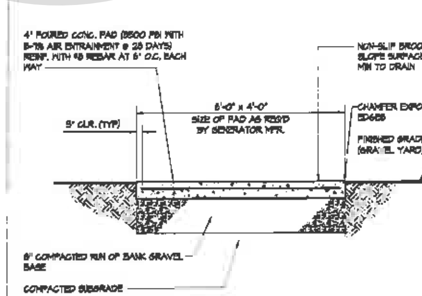


7/C-330 UTILITY CROSSING DETAIL
N.T.S.
SEPARATION LESS THAN 18"



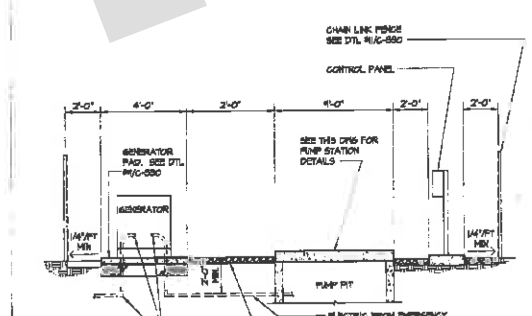
CUMMINS PROPANE FUELED GENERATOR, GENSET MODEL 66MA, 20 KW, OR APPROVED EQUAL

8/C-330 GENERATOR DETAILS
N.T.S.



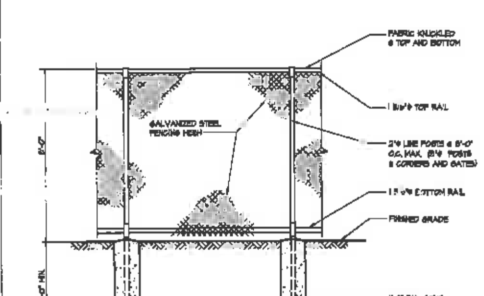
NOTES:
1. AREAS RESEEDED BETWEEN NOVEMBER AND MARCH SHALL BE CHECKED AND RE-ESTABLISHED IN APRIL.
2. THE CONTRACTOR SHALL ATTACH THE GENERATOR TO THE CONCRETE PAD AS INSTRUCTED BY THE GENERATOR MANUFACTURER.
3. CONTRACTOR SHALL VERIFY GENERATOR SIZING WITH MANUFACTURER AND SUPPLIER PRIOR TO ORDERING EQUIPMENT.

9/C-330 GENERATOR PAD DETAIL
N.T.S.



NOTE: INSTALL ALL ELECTRICAL SERVICES UNDERGROUND

10/C-330 SECTION THROUGH PUMP STATION AREA
N.T.S.



11/C-330 CHAIN LINK FENCE DETAIL
N.T.S.

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CONSULTING ENGINEER
59 McMANUS ROAD SOUTH, PATTERSON, NEW YORK 12563
(845) 878-2026

REVISIONS:

NO.	DATE	DESCRIPTION
2	JAN. 29, 2007	REVISED PER TE
3	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER TE
5	FEB. 2, 2008	REVISED PER ARB
6	JAN. 23, 2008	REVISED PER DEC & DOH
7	OCT. 01, 2008	REVISED PER TE
8	NOV. 05, 2009	REV. TAX MAP #'S / SUB. TO TOWN FOR RE-APPROVAL
9	FEB. 18, 2010	ADDED STREET NAME

PROJECT:
STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7068-00-443413 LOT #1
TAX MAP 7068-00-590562 LOT #2

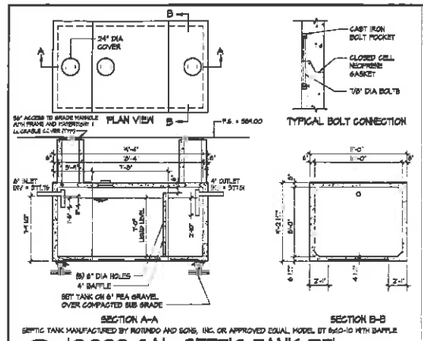
DATE: 01-23-2008
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: DETAILS

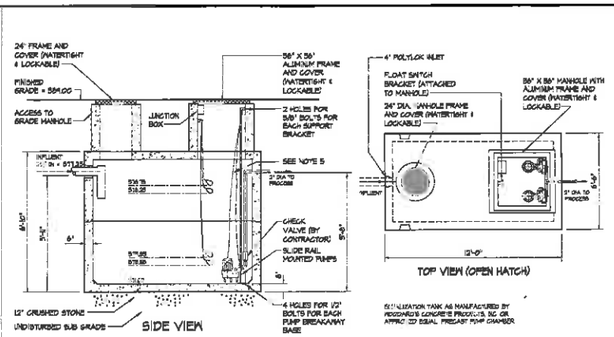
PROJECT NUMBER: 7148
DRAWING NUMBER: C-330

SHEET 15 OF 18

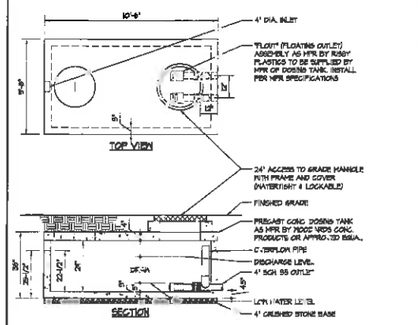
COPY



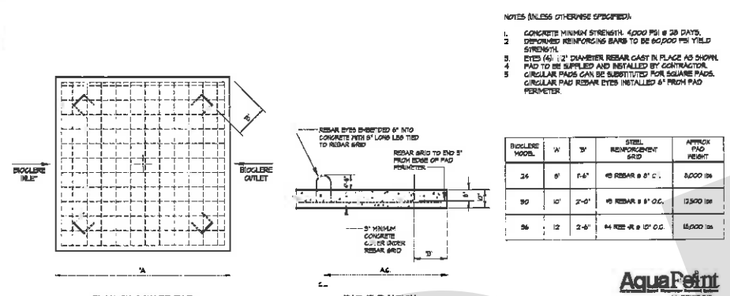
1 C-340 10,000 GAL. SEPTIC TANK DTL.
N.T.S.



2 C-340 2,500 GAL. EQUALIZATION TANK DTL.
N.T.S.



3 C-340 472 GAL. DUAL SIPHON CHAMBER DTL
N.T.S.

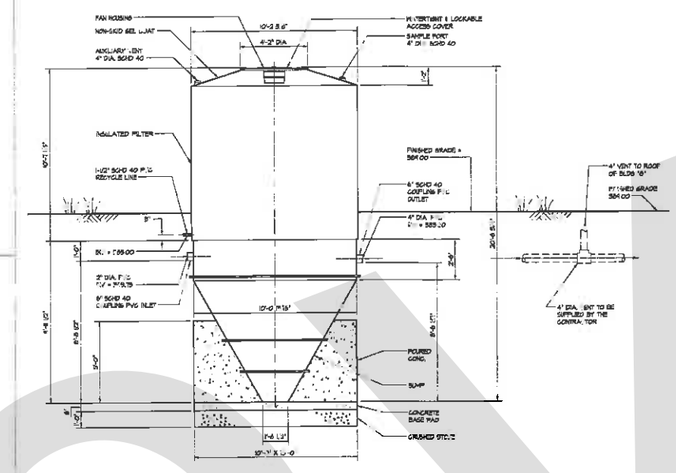


BIOCLERE MODEL	'W'	'B'	STEEL REINFORCEMENT GRID	APPROX PAD WEIGHT
24	8'	1'-6"	#3 REBAR @ 8" O.C.	3,000 lbs
30	10'	2'-0"	#3 REBAR @ 8" O.C.	12,500 lbs
36	12	2'-6"	#4 REBAR @ 12" O.C.	18,000 lbs

4 C-340 PRECAST MOUNTING PAD for BIOCLERE MODELS 24, 30 & 36
N.T.S.

SHIPPING WEIGHTS

WEIGHT DRY WITH MEDIA = 3200 lbs (FRP) or 10800 lbs (Steel)
WEIGHT DRY WITH NO MEDIA = 2400 lbs (FRP) or 4000 lbs (Steel)



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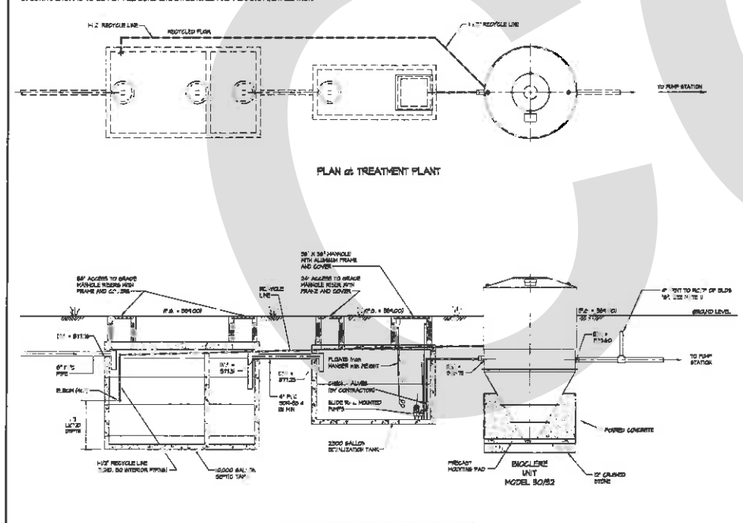
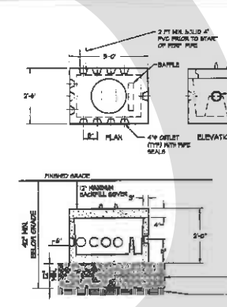
AquaPoint

5 C-340 BIOCLERE 30/32 GENERAL ARRANGEMENT DETAIL
N.T.S.

NOTES (UNLESS OTHERWISE SPECIFIED):
1. VENT SHALL BE RUN UP TO THE ROOF OF THE BUILDING.
2. IF INSTALLED IN GROUND WATER, CONTACT SITE ENGINEER FOR ANCHORING REQUIREMENTS.
3. CONTRACTOR IS TO SUPPLY ALL CONCRETE STRUCTURES AND PERFORM INSTALLATION.

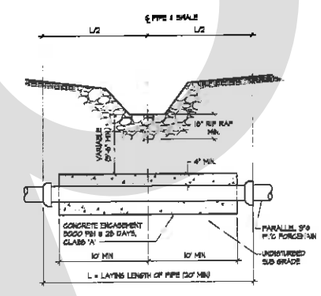


6 C-340 TYPICAL GROUND INSTALLATION SCHEMATIC
N.T.S.

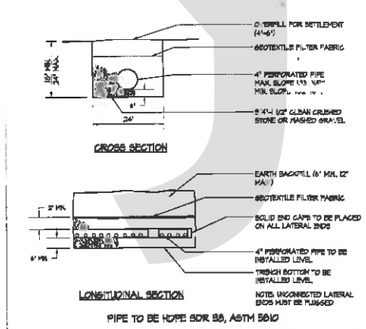


NOTES:
1. 12" MAXIMUM BACKFILL.
2. ANY UNUSED OUTLETS TO REMAIN PLUGGED.
3. INSTALL SPEED LEVELERS TO INSURE EQUAL DISTRIBUTION TO ALL OUTLET PIPES.
4. A MINIMUM OF 2 FEET OF SOLID 4"Ø PVC PIPE SHALL EXTEND OUT OF THE DISTRIBUTION BOX PRIOR TO THE START OF THE PERFORATED PIPE FOR EACH ABSORPTION TRENCH.

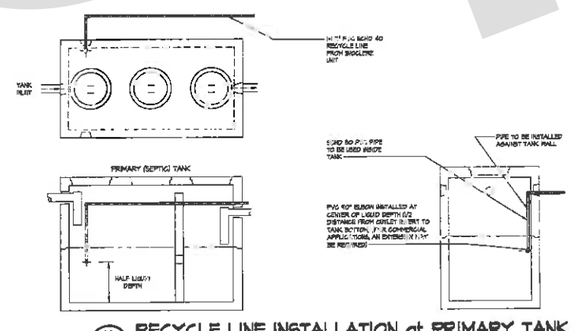
7 C-340 DISTRIBUTION BOX DETAIL
N.T.S.



8 C-340 SWALE CROSSING SEWER PIPE DETAIL
N.T.S.

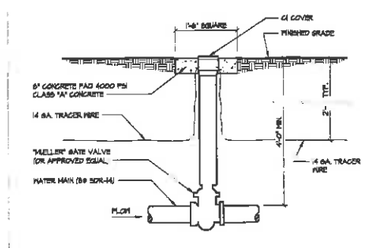


9 C-340 TYPICAL ABSORPTION TRENCH DTL
N.T.S.



NOTES FOR CONTRACTOR:
1. SLOPE PIPE BACK TO SEPTIC TANK WITH NO LOW POINTS.
2. USE PRESSURE FITTINGS ONLY.

10 C-340 RECYCLE LINE INSTALLATION at PRIMARY TANK DETAIL
N.T.S.



NOTE:
INSTALL 14 GAUGE TRACER WIRES @ 2'-0" DEPTH ALONG WATERMAIN AND PLACE UP IN THE GATE VALVE BOX TO FACILITATE CONNECTION

11 C-340 WATER VALVE DETAIL
N.T.S.

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(845) 878-2036

REVISIONS

NO.	DATE	DESCRIPTION
1	JAN. 26, 2007	REVISED PER TB
2	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
3	DEC. 04, 2007	REVISED PER TB
4	FEB. 21, 2008	REVISED PER TB
5	MAY. 05, 2008	REVISED PER TB, DCHD
6	OCT. 01, 2008	REVISED PER TB
7	NOV. 06, 2009	REV. TAX MAP #'S / SUB. TO TOWN FOR RE-APPROVAL
8	FEB. 18, 2010	ADDED STREET NAME

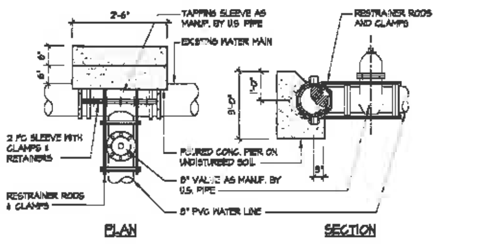
PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7065-00-442943 LOT #1
TAX MAP 7065-00-442863 LOT #2

DATE: JAN. 26, 2006
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

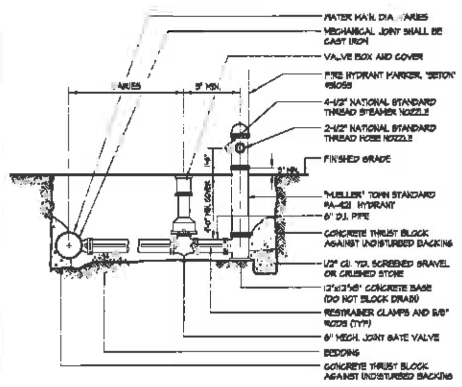
DRAWING: DETAILS

PROJECT NUMBER: TMB
DRAWING NUMBER: C-340
SHEET 10 OF 10

COPY



1 TAPPING SLEEVE WITH THRUST BLOCK DTL
C-350 N.T.S.



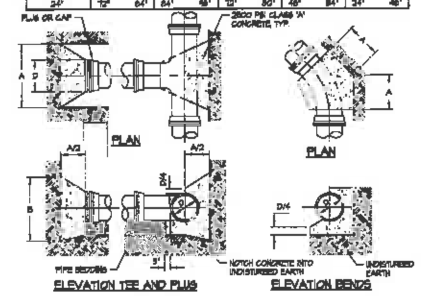
NOTE: CONTINUE TIE RODS TO MAIN OR AT LEAST 20' ALONG HYDRANT LATERAL

2 HYDRANT DETAIL
C-350 N.T.S.

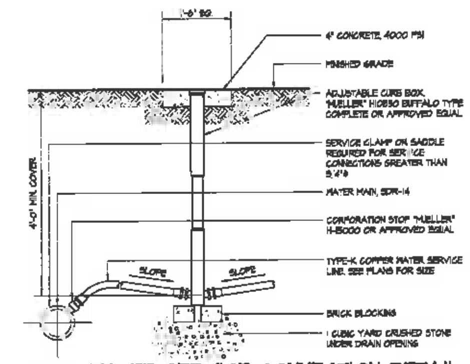
NOTES:
1. TIE RODS MUST BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKS FOR HYDRANTS, VALVES ON TEES, AND WHEREVER REQUIRED BY ENGINEER FOR MECHANICAL JOINT, TYTON AND PVC PIPE.

HORIZONTAL THRUST BLOCK SCHEDULE

PIPE SIZE	TEE		90		45		22 1/2		11 1/4	
DIAMETER (D)	A	B	A	B	A	B	A	B	A	B
6" - 8"	30"	36"	24"	48"	12"	24"	12"	18"	12"	12"
10" - 12"	36"	48"	44"	48"	24"	48"	24"	24"	12"	24"
14" - 16"	42"	60"	60"	72"	36"	60"	24"	48"	24"	24"
18" - 20"	60"	72"	72"	84"	54"	84"	36"	48"	24"	60"
24"	72"	84"	84"	96"	72"	80"	48"	84"	24"	48"

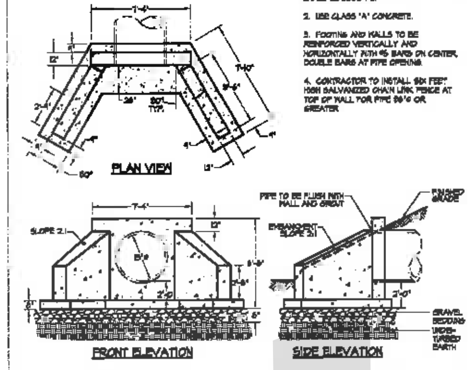


3 HORIZONTAL THRUST BLOCK DETAILS
C-350 N.T.S.

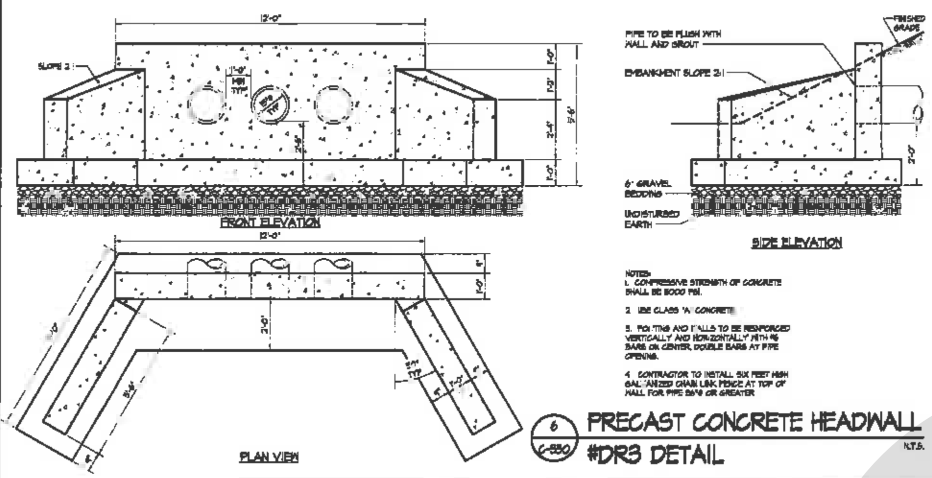


4 WATER SERVICE CONNECTION DETAIL
C-350 N.T.S.

NOTES:
1. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 5000 PSI
2. USE CLASS 'A' CONCRETE.
3. FOOTING AND WALLS TO BE REINFORCED VERTICALLY AND HORIZONTALLY WITH #5 BARS ON CENTER, DOUBLE BARS AT PIPE OPENING.
4. CONTRACTOR TO INSTALL SIX FEET HIGH GALVANIZED CHAIN LINK FENCE AT TOP OF WALL FOR PIPE 36"Ø OR GREATER.

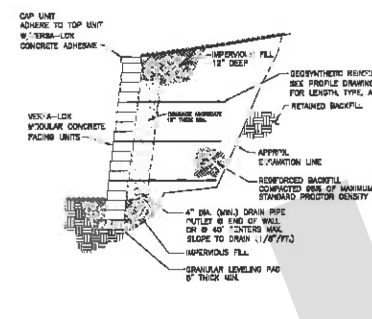


5 PRECAST CONC. HEADWALL #DR4 DTL.
C-350 N.T.S.

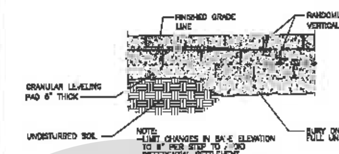


NOTES:
1. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 5000 PSI.
2. USE CLASS 'A' CONCRETE
3. FOOTING AND WALLS TO BE REINFORCED VERTICALLY AND HORIZONTALLY WITH #5 BARS ON CENTER, DOUBLE BARS AT PIPE OPENING.
4. CONTRACTOR TO INSTALL SIX FEET HIGH GALVANIZED CHAIN LINK FENCE AT TOP OF WALL FOR PIPE 36"Ø OR GREATER

6 PRECAST CONCRETE HEADWALL #DR3 DETAIL
C-350 N.T.S.

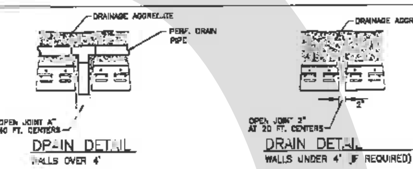


8 TYPICAL SECTION-REINFORCED RETAINING WALL
C-350 N.T.S.

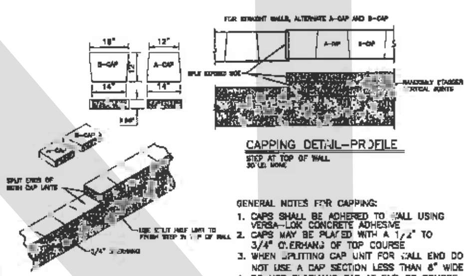


NOTE:
-LIMIT CHANGES IN BASE ELEVATION TO 8" PER STEP TO AVOID DIFFERENTIAL SETTLEMENT
-STEP OFTEN ENOUGH TO MAINTAIN MINIMUM REQUIRED EMBEDMENT

9 STEPPING BASE DETAIL
C-350 N.T.S.

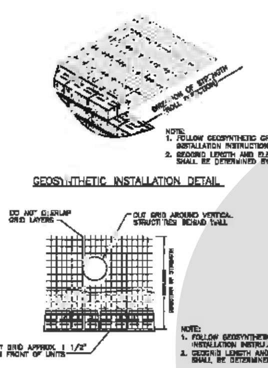


10 DRAIN DETAILS
C-350 N.T.S.



GENERAL NOTES FOR CAPPING:
1. CAPS SHALL BE ADHERED TO WALL USING VERSA-LOK CONCRETE ADHESIVE
2. CAPS MAY BE PLACED WITH A 1/2" TO 3/4" OVERHANG OF TOP COURSE
3. WHEN SPLITTING CAP UNIT FOR WALL END DO NOT USE A CAP SECTION LESS THAN 6" WIDE
4. DO NOT OVERHANG CAP AT END OF COURSE MORE THAN 1"

11 CAPPING DETAILS
C-350 N.T.S.

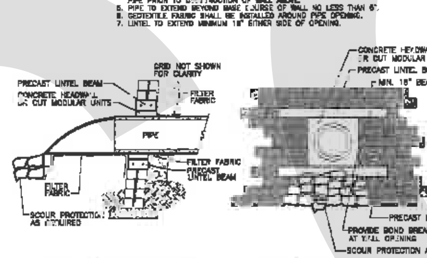


NOTE:
1. FOLLOW GEOSYNTHETIC GRID MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS
2. GEOGRID LENGTH AND ELEVATION PLACEMENT SHALL BE DETERMINED BY PROJECT ENGINEER

NOTE:
1. FOLLOW GEOSYNTHETIC GRID MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS
2. GEOGRID LENGTH AND ELEVATION PLACEMENT SHALL BE DETERMINED BY PROJECT ENGINEER

12 GEOSYNTHETIC INSTALLATION DETAILS
C-350 N.T.S.

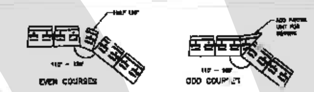
LINTEL NOTES:
1. FINAL BEAM SIZE, REINFORCEMENT, AND CONFIGURATION TO BE DESIGNED BY PROJECT ENGINEER.
2. LINTEL BEAMS SHALL BE PRECAST WITH MIN. 7 DAYS CURE.
3. HEIGHT OF BEAM SHALL CORRESPOND TO HEIGHT OF MODULAR UNIT(S).
4. PLACE LINTEL ON COURSE ABOVE DRAINAGE PIPE. INSTALL DRAINAGE PIPE PRIOR TO CONSTRUCTION OF WALL ABOVE.
5. PIPE TO EXTEND BEYOND BASE COURSE OF WALL NO LESS THAN 6".
6. GEOTEXTILE FABRIC SHALL BE INSTALLED AROUND PIPE OPENING.
7. LINTEL TO EXTEND MINIMUM 18" EITHER SIDE OF OPENING.



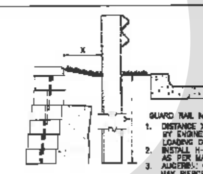
13 WALL W/ PIPE PENETRATION DETAIL
C-350 N.T.S.

NOTE:
FOLLOW GEOGRID MANUFACTURER'S INSTRUCTIONS FOR REINFORCEMENT PLACEMENT AT CURVES AND CORNERS

NOTE:
ALWAYS START PLACEMENT FOR EACH COURSE AT CORNER AND WORK OUT INTO MIDDLE OF WALL.

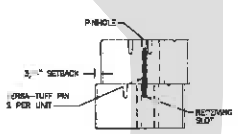


14 CORNER DETAILS
C-350 N.T.S.

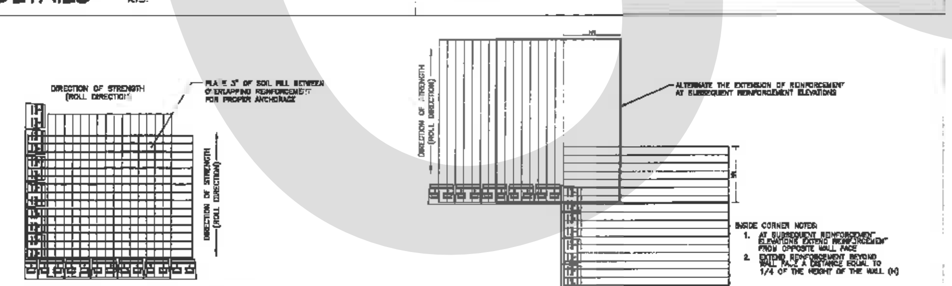


GUARD RAIL NOTES:
1. DISTANCE X AND Y TO BE DETERMINED BY ENGINEER BASED ON SOIL AND LOADING CONDITIONS.
2. INSTALL H-PILE OR WOOD POST AS PER MANUFACTURER'S RECOMMENDATIONS.
3. AUGERING OR DRIVING OF POST MAY PIERCE UPPER LAYER OF GEOSYNTHETIC AS PER ENGINEER'S DESIGN.

15 GUARD RAIL DETAIL
C-350 N.T.S.



16 PINNING DETAIL
C-350 N.T.S.



INSIDE CORNER NOTES:
1. AT SUBSEQUENT REINFORCEMENT ELEVATIONS EXTEND REINFORCEMENT FROM OPPOSITE WALL FACE
2. EXTEND REINFORCEMENT BEYOND WALL FACE A DISTANCE EQUAL TO 1/4 OF THE HEIGHT OF THE WALL (H)

GENERAL NOTES FOR GEOSYNTHETIC REINFORCEMENT
1. AT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS, THE GEOSYNTHETIC SHALL BE LAID HORIZONTALLY ON COMPACTED SOIL FILL AND PLACED ON TO THE VERSA-LOK UNITS.
2. CORRECT ORIENTATION (ROLL DIRECTION) OF THE GEOSYNTHETIC SHALL BE VERIFIED BY THE CONTRACTOR TO BE IN ACCORDANCE WITH THE GEOSYNTHETIC MANUFACTURER'S RECOMMENDATIONS.
3. THE GEOSYNTHETIC SHALL BE IN TENSION AND FREE OF WRINKLES PRIOR TO PLACEMENT OF SOIL FILL.
4. NOMINAL TENSION SHALL BE APPLIED TO THE GEOSYNTHETIC AND SECURED IN PLACE WITH STAPLES, STAKES OR BY HAND TENSIONING UNTIL THE GEOSYNTHETIC IS COVERED BY SIX INCHES OF SOIL FILL.

17 GEOSYNTHETIC PLACEMENT DETAILS
C-350 N.T.S.

GEOGRID TABLE

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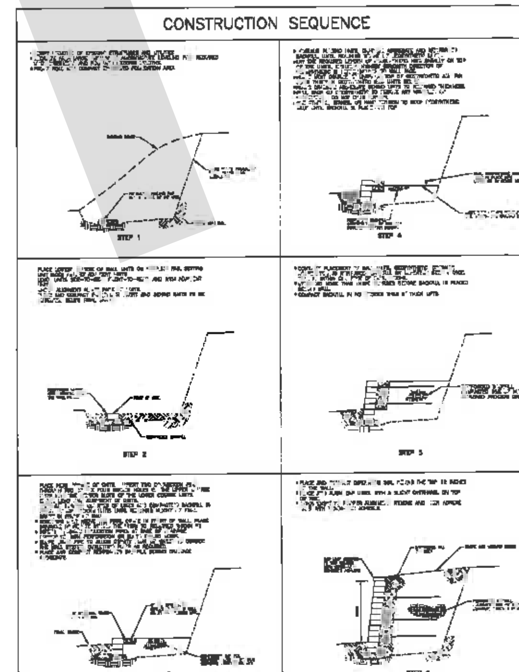
CONSTRUCTION SEQUENCE



INSTALLATION NOTES

- STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
- BENCH CUT ALL EXCAVATED SLOPES.
- DO NOT EXCAVATE BEYOND EXCAVATION LINES SHOWN ON PLAN UNLESS DIRECTED BY SITE SOILS ENGINEER TO REMOVE UNSUITABLE SOIL.
- CONTRACTOR SHALL ENSURE TEMPORARY EXCAVATIONS ARE STABLE AND PROVIDE EXCAVATION SUPPORT IF NEEDED.
- SITE SOILS ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT FOR THE DESIGN PARAMETERS.
- LEVELING PAD SHALL CONSIST OF WELL GRADED ROAD BASE AGGREGATE, 3/4" CRUSHED, ANGULAR GRAVEL WITH SOME FINES
- CONTRACTOR MAY OPT FOR A LEAN CONCRETE LEVELING PAD. PAD SHALL BE UNREINFORCED LEAN CONCRETE, 200-300 PSI, 3" THICK MAXIMUM.
- DRAINAGE AGGREGATE SHALL CONSIST OF CLEAN ANGULAR GRAVEL, 3/4" DIAMETER WITH LESS THAN 5% FINES.
- DRAINAGE PIPE SHALL BE PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE.
- REINFORCED BACKFILL SHALL BE FREE OF DEBRIS, ORGANIC SOIL, AND EXPANSIVE SOILS.
- FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPACTED.
- COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. (ASTM D-698)
- COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER.
- COMPACTION WITHIN 3FT. OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.
- CONTRACTOR SHALL SLOPE SITE GRADES TO DIRECT SURFACE RUNOFF AWAY FROM WALL AT END OF EACH DAY TO AVOID WATER DAMAGING THE WALL WHILE UNDER CONSTRUCTION.
- ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.
- FOLLOW APPLICABLE PROVISIONS OF THE WALL UNIT AND GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
- IF SITE AND SOIL CONDITIONS, WALL GEOMETRY, OR WALL LOADINGS ARE DIFFERENT THAN IN THE DRAWINGS AND THE DESIGN PARAMETERS, THE CONTRACTOR MUST CONTACT DESIGN ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.

DESIGN PARAMETERS AND PROVISIONS

- THE DESIGN OF THE WALL SYSTEM ASSUMES THE FOLLOWING PARAMETERS:

SOIL CONDITIONS	FRICTION ANGLE	UNIT WEIGHT
REINFORCED BACKFILL	32°	125
RETAINED BACKFILL	30°	125
FOUNDATION SOIL	30°	125

HYDROSTATIC LOADING = NONE
SURCHARGE LOAD AT TOP OF WALL = 100 psf
ALLOWABLE BEARING CAPACITY = 2000 psf

- THE WALL DESIGN ENGINEER ASSUMES NO LIABILITY FOR INTERPRETATION OF SUBSURFACE CONDITIONS, SUITABILITY OF SOIL DESIGN PARAMETERS AND INTERPRETATIONS OF SUBSURFACE GROUNDWATER CONDITIONS.
- THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE FOR ENSURING THE CONDITIONS STATED ABOVE ARE ACCURATE PRIOR TO AND DURING CONSTRUCTION.
- THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE FOR ENSURING THE WALL DESIGN ENGINEER IS CONTACTED IF CONDITIONS VARY.
- IT IS THE OWNER OR THE OWNER'S REPRESENTATIVE'S RESPONSIBILITY TO ENSURE EXTERNAL STABILITY OF THE WALL, INCLUDING BEARING CAPACITY AND SLOPE STABILITY, IS PROPERLY REVIEWED AND EVALUATED BY A QUALIFIED CIVIL ENGINEER. THE WALL DESIGN SHOWN IN THESE DRAWINGS DOES NOT ADDRESS THE SUFFICIENCY OF THE BEARING CAPACITY NOR THE SLOPE STABILITY OF THE WALL SYSTEM AND SURROUNDING SOIL.

VERSA-LOK® Retaining Wall Systems

MICHAEL J. BUDZINSKI, P.E.
CONSULTING ENGINEER
54 McMANUS ROAD SOUTH, PATTERSON, NEW YORK 12563
(845) 878-2026

REVISIONS

NO.	DATE	DESCRIPTION
2	JAN. 24, 2007	REVISED PER TE
3	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
4	DEC. 04, 2007	REVISED PER TE
5	FEB. 21, 2008	REVISED PER ARB
6	JUN. 25, 2008	REVISED PER DEC & DOH
7	OCT. 07, 2008	REVISED PER TE
8	NOV. 05, 2009	REV. TAX MAP #'s / SUB. TO TOWN FOR RE-APPROVAL
9	FEB. 18, 2010	ADDED STREET NAME

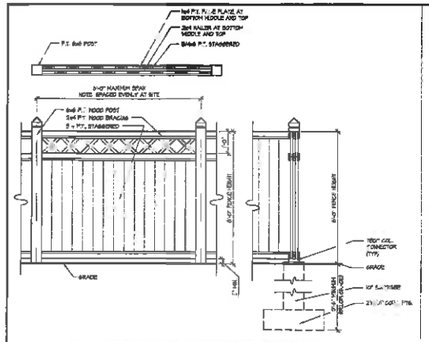
PROJECT: STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7063-00-442412 LOT 8
TAX MAP 7063-00-590562 LOT 42

DATE: 01-25-2006
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: DETAILS

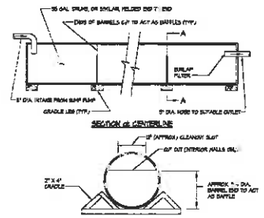
PROJECT NUMBER: 1145
DRAWING NUMBER: C-350
SHEET 17 OF 18

COPY



1 C-360 PRIVACY FENCE DETAIL

N.T.S.

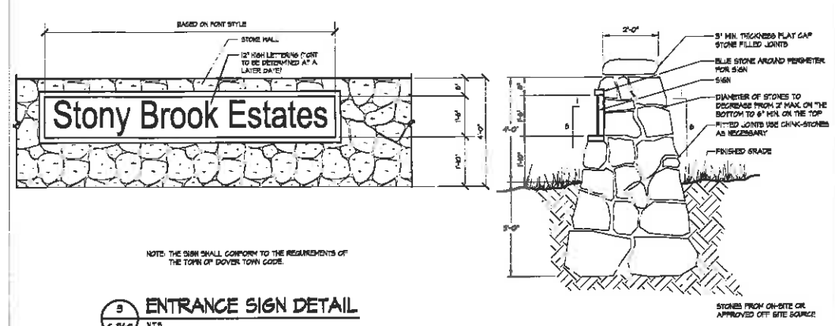


CONSTRUCTION NOTES:

1. CLEAN OUT THE SEDIMENT TANK WHEN ONE-THIRD FULL FILLED WITH SILT.
2. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET.
3. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE ENGINEER / INSPECTOR.
4. THE FOLLOWING FORMULA SHALL BE USED TO DETERMINE THE STORAGE VOLUME OF THE TANK:
   FORM SQ. FEET (SURFACE AREA) X 1.5 = CUBIC FOOT STORAGE.

2 C-360 PORTABLE SEDIMENT TANK DTL.

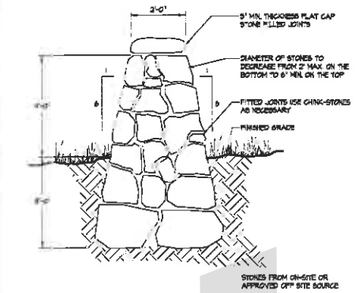
N.T.S.



NOTE: THE SIGN SHALL CONFORM TO THE REQUIREMENTS OF THE TOWN OF DOVER TOWN CODE.

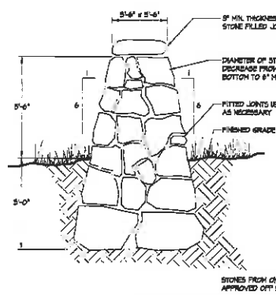
3 C-360 ENTRANCE SIGN DETAIL

N.T.S.



4 C-360 DRY LAID STONE WALL DETAIL

N.T.S.



5 C-360 DRY LAID STONE PIER DETAIL

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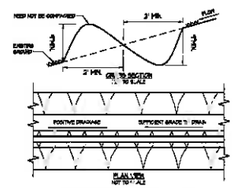

CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER / DIKE SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED WATER FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED WATER FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. THE SWALE SHALL BE SUFFICIENTLY COMPACTED OR SHAPED TO LINE SMALL AND GRASS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PERFORMED AFTER EACH RAIN EVENT.

MAX. DRAINAGE AREA LIMIT: 5 ACRES

6 C-360 PERIMETER DIKE/SWALE DETAIL

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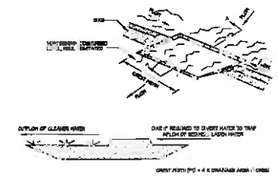


SECTION A-A

SEDIMENT GRASS OUTLET SEDIMENT TRAP

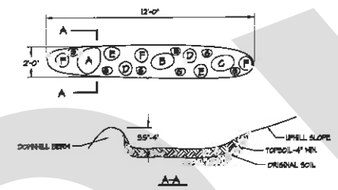
CONSTRUCTION SPECIFICATION FOR ST-11

1. VOLUME OF SEDIMENT STORAGE SHALL BE 1800 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE AREA
2. MINIMUM GRASS PATCH WIDTH SHALL BE 4 X DRAINAGE AREA.
3. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DISPOSED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
4. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN A MANNER THAT SEDIMENT AND OTHER POLLUTION SHALL NOT ENTER WATERWAYS.
6. THE SEDIMENT TRAP SHALL BE REMOVED AND AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
7. ALL CUT SLOPES SHALL BE 1:1 OR FLATTER.

MAXIMUM DRAINAGE AREA = 5 ACRES

7 C-360 (ST-11) GRASS OUTLET SEDIMENT TRAP DETAIL

N.T.S.



SYMBOL	LATIN NAME	COMMON NAME	BLOOM TIME	HEIGHT	SPACING	# OF PLANTS
A	BAPTISIA LEUCHA	WHITE FALSE INDIGO	EARLY SUMMER	3-4'	3'	1
B	RUDBECKIA SUBTOMENTOSA	SWEET BLACK-EYED SUSAN	LATE SUMMER	4-6	3'	1
C	LIGUSTRICUM MACKII	MACKIE BLUEWATER	SUMMER	8-9	3'	1
D	ALLIUM CERNUUM	NODDING PINK ONION	SUMMER	1-1'	1'	3
E	SOLIDAGO SEMPERVIRENS	SEA SIDE GOLDENROD	FALL	3-4'	1	3
F	ZOS. TUNICATUM	DWARF FOUNTAIN GRASS		2-3	1	3
G	CAREX LAPIDOSA	[illegible]		1'-2'		9

8 C-360 RAIN GARDEN

N.T.S.

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REVISIONS		
NO.	DATE	DESCRIPTION
1	JAN. 29, 2007	REVISED PER TE
2	SEP. 07, 2007	REVISED PER TOWN PLANNING BOARD
3	OCT. 29, 2007	REVISED PER TE
4	FEB. 04, 2008	REVISED PER AHJ
5	JUN. 26, 2008	REVISED PER DOT / DOD
6	OCT. 01, 2008	REVISED PER TE
7	OCT. 01, 2008	REVISED PER TE
8	NOV. 05, 2008	REV. TO MAP PER TOWN FOR RE-APPROVAL
9	FEB. 18, 2010	APPROVED WITH NOTE

PROJECT:
STONY BROOK ESTATES
N.Y.S. ROUTE 22
TOWN of DOVER
DUTCHESS COUNTY, NEW YORK
TAX MAP 7028-00-443413 LOT 16
TAX MAP 7028-00-426603 LOT 12

DATE: 12-28-2005
PROJECT MANAGER: MJB
DRAWN BY: MJB
CHECKED BY: MJB
SCALE: AS NOTED

DRAWING: DETAILS

PROJECT NUMBER: 7148

DRAWING NUMBER: C-360

SHEET 10 OF 10

COPY