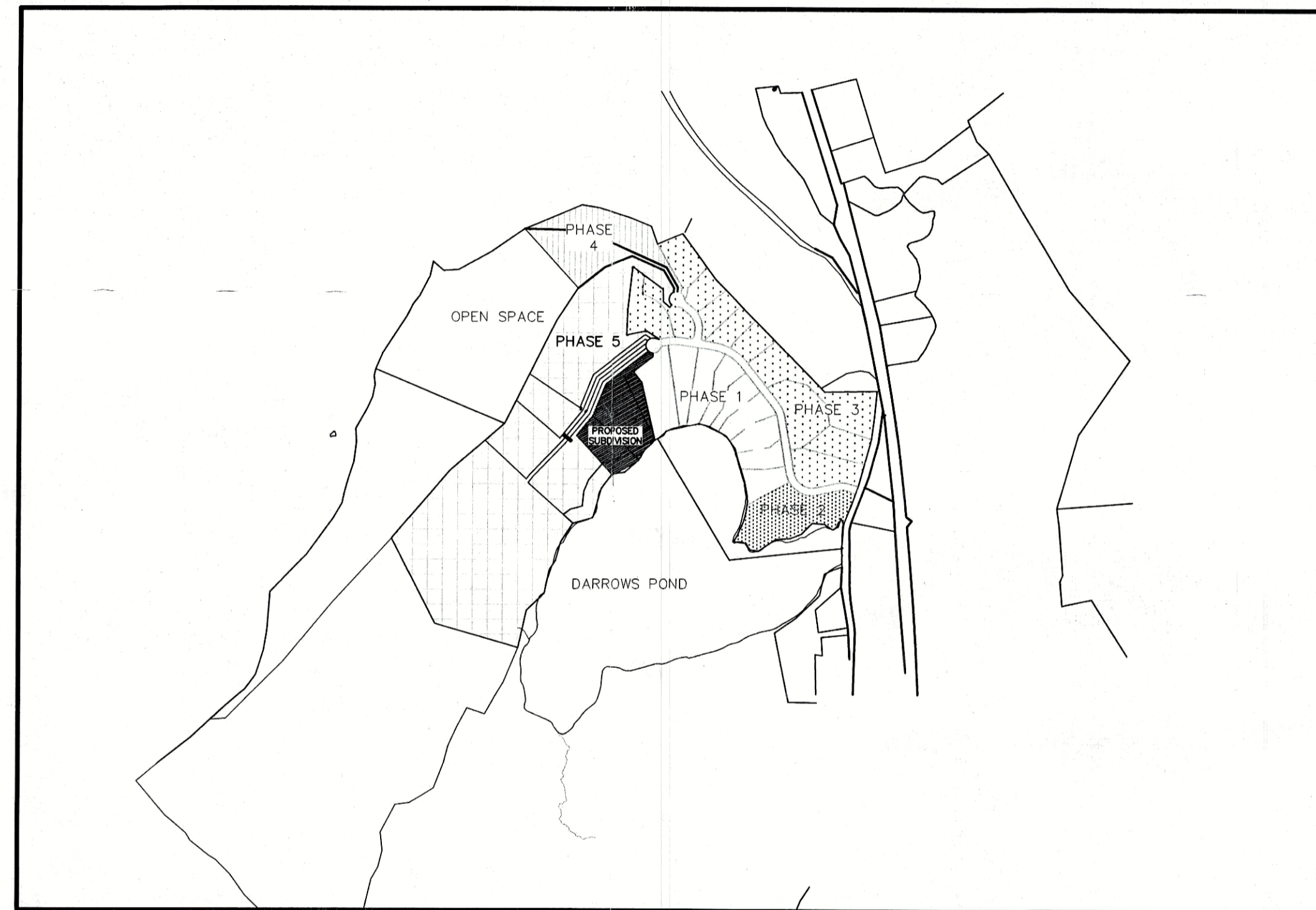


DARROWS POINT CONSERVATION DESIGN DEVELOPMENT

24 DARROWS RIDGE ROAD
EAST LYME, CONNECTICUT



SITE LOCATION MAP
SCALE : 1" = 800'

SHEET INDEX

SHEET NO.	DESCRIPTION
1.	INDEX SHEET
2.	BOUNDARY SURVEY - LOT LAYOUT
3.	GRADING - EROSION & SEDIMENTATION CONTROL PLAN
4.	NATURAL AND CULTURAL RESOURCES PLAN
5.	SEPTIC DESIGN NOTES
6.	DETAIL & TEST DATA

LEGEND

	IRON PIPE RECOVERED
	IRON PIN RECOVERED
	MERESTONE RECOVERED
	CONNECTICUT HIGHWAY MONUMENT RECOVERED
	DRILL HOLE RECOVERED
	IRON PIN TO BE SET
	DRILL HOLE TO BE SET
	MONUMENT TO BE SET
	EXISTING CONTOUR
	PROPOSED CONTOUR
	BUILDING LINE
	WATER LINE
	UNDERGROUND UTILITIES (PHONE,ELEC.,CABLE TV,ETC.)
	UTILITY POLE
	STONE WALL
	WIRE FENCE
	TREE LINE / LIMITS OF CLEARING
	WETLANDS FLAG NO.
	F.F. FINISH FIRST FLOOR
	F.B.F. FINISH BASEMENT FLOOR
	F.G.F. FINISH GARAGE FLOOR
	WELL
	PECCULATION TEST
	TEST HOLE
	SILT FENCE

NOTES:

- THIS SURVEY AND MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS AN ORIGINAL SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2. IT IS INTENDED FOR SUBDIVISION APPROVAL.
- ELEVATION BASED ON NAVD 29 DATUM. TOPOGRAPHY FROM FIELD MEASUREMENTS AND AERIAL SURVEY CONFORMING TO CLASS T-3 TOPOGRAPHIC SURVEY ACCURACY
- TOTAL AREA OF THIS SUBDIVISION INCLUDING OPEN SPACE IS = 122.76 Ac.
- OWNER OF RECORD : PAZZ & CONSTRUCTION LLC
P.O. BOX 817
EAST LYME, CT. 06333
- APPLICANT : PAZZ & CONSTRUCTION LLC
P.O. BOX 817
EAST LYME, CT
- STONEWALLS AND WIRE FENCES MAY HAVE MINOR IRREGULARITIES BETWEEN PRINCIPAL COURSES SHOWN.
- WETLANDS MARKS AS DEPICTED HEREON ARE MARKED BY DON FORTUNATO CERTIFIED SOIL SCIENTIST.
- AREA OF OPEN SPACE DEDICATE FOR ALL PHASES OF THIS SUBDIVISION = 49.46 Ac., 21.8 ACRES ALONG AUNT RUTHS TURNPIKE TO BE DEDICATED TO THE TOWN OF EAST LYME AND 8.35 Ac. OPEN SPACE TO BE DEEDED TO THE PROPERTY OWNERS OF THE SUBDIVISION IN PHASE 1, IN PHASE 3 & 4 4.43 ACRES ARE TO BE DEEDED AS CONSERVATION EASEMENTS. IN PHASE 5 14.88 ACRES OPEN SPACE SHALL BE DEDICATED.
- THE USE OF PASSIVE SOLAR ENERGY TECHNIQUES HAVE BEEN CONSIDERED IN THE DESIGN OF THIS SUBDIVISION. THE SITE HAS BEEN DESIGNED TO TAKE ADVANTAGE OF THE NATURAL SLOPES TO ALLOW HOMES IN A SUBSTANTIAL PORTION OF THE SUBDIVISION TO HAVE DIRECT ACCESS TO PREVAILING BREEZES DURING SUMMER MONTHS. IN ADDITION, THE PUBLIC ROAD HAS BEEN DESIGNED TO FOLLOW THE CONTOURS OF THE LAND AND THEREFORE NOT DISRUPT THE NATURAL WIND PATTERNS. FINALLY, TO THE EXTENT POSSIBLE ALL NATURAL VEGETATION HAS BEEN MAINTAINED.
- JASON PAZZAGLIA THE INDIVIDUAL RESPONSIBLE FOR INSTALLATION, MONITORING AND CORRECTION OF ALL E&S MEASURES.
- DARROWS RIDGE SUBDIVISION TOTAL LAND AREA=122.77 Ac.
OPEN SPACE REQUIRED AS PER OLD CLUSTER REGULATIONS 30% = 36.83 Ac.
OPEN SPACE/CONSERVATION AREA PROVIDED PHASE 1-5 = 56.84 Ac.
ADDITIONAL CONSERVATION AREA PROPOSED=0.51 Ac.
EXTRA OPEN SPACE PROVIDED = 57.33-36.83 = 20.5 Ac. OR 16.7%

MAX LOT INCREASE ALLOWED IS 50% OF 16.7% IS 8.35% INCREASE
TOTAL LOTS IN SUBDIVISION 30 x 8.35%=2.5 ADDITIONAL LOTS ALLOWED
PROPOSED 1 ADDITIONAL LOT.

APPROVED BY THE EAST LYME PLANNING COMMISSION

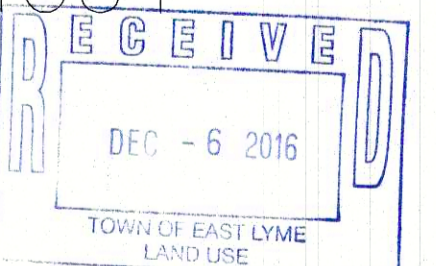
Chairman / Secretary _____
Approval Date _____
Filing Deadline _____
Expiration Date _____



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DRAWN BY: RDP		DATE: AUGUST 23, 2016	
NO.	DATE	DESCRIPTION	REVISIONS
1	10/4/16	SEE INDIVIDUAL SHEETS FOR REVISION DATE AND DESCRIPTION	RDP
1	9/23/16	SEE INDIVIDUAL SHEETS FOR REVISION DATE AND DESCRIPTION	RDP

INDEX SHEET
OWNER/APPLICANT: PAZZ & CONSTRUCTION LLC
PO BOX 817
EAST LYME, CONNECTICUT
SHEET 1



J. ROBERT PFANNER & ASSOCIATES, P.C.
CIVIL ENGINEERS & LAND SURVEYORS

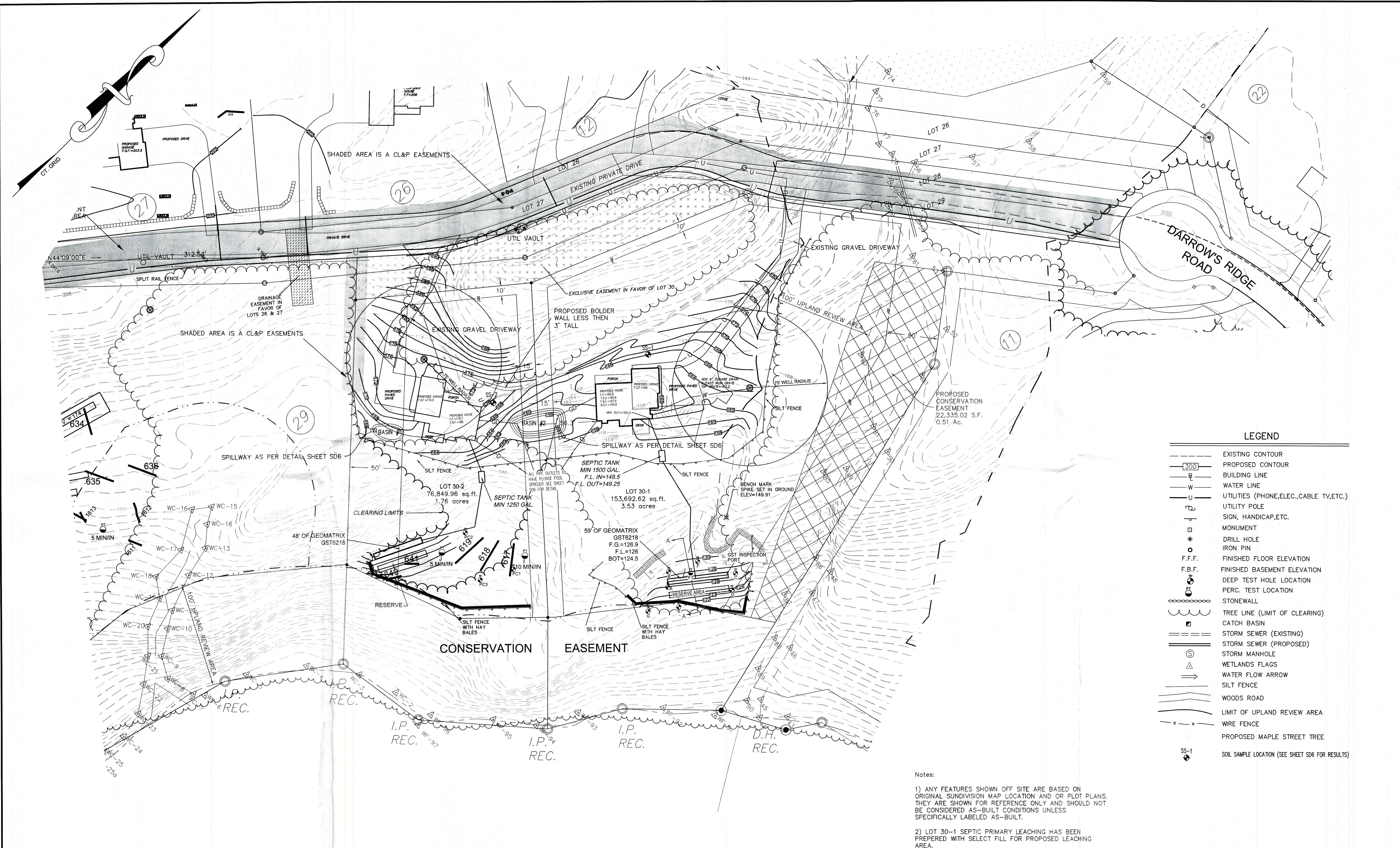


37 GRAND STREET NIANTIC, CONNECTICUT 06357
TEL. 860-739-6216 FAX 860-739-0693

SHEET NUMBER

SD1

15010-5-DWG



LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOUR
	BUILDING LINE
	WATER LINE
	UTILITIES (PHONE, ELEC., CABLE TV, ETC.)
	UTILITY POLE
	SIGN, HANDICAP, ETC.
	MONUMENT
	DRILL HOLE
	IRON PIN
	F.F.F. FINISHED FLOOR ELEVATION
	F.B.F. FINISHED BASEMENT ELEVATION
	DEEP TEST HOLE LOCATION
	PERC. TEST LOCATION
	STONEWALL
	TREE LINE (LIMIT OF CLEARING)
	CATCH BASIN
	STORM SEWER (EXISTING)
	STORM SEWER (PROPOSED)
	STORM MANHOLE
	WETLANDS FLAGS
	WATER FLOW ARROW
	SILT FENCE
	WOODS ROAD
	LIMIT OF UPLAND REVIEW AREA
	WIRE FENCE
	PROPOSED MAPLE STREET TREE
	SOIL SAMPLE LOCATION (SEE SHEET SD6 FOR RESULTS)

Notes:

- 1) ANY FEATURES SHOWN OFF SITE ARE BASED ON ORIGINAL SUBDIVISION MAP LOCATION AND OR PLOT PLANS. THEY ARE SHOWN FOR REFERENCE ONLY AND SHOULD NOT BE CONSIDERED AS-BUILT CONDITIONS UNLESS SPECIFICALLY LABELED AS-BUILT.
- 2) LOT 30-1 SEPTIC PRIMARY LEACHING HAS BEEN PREPARED WITH SELECT FILL FOR PROPOSED LEACHING AREA.

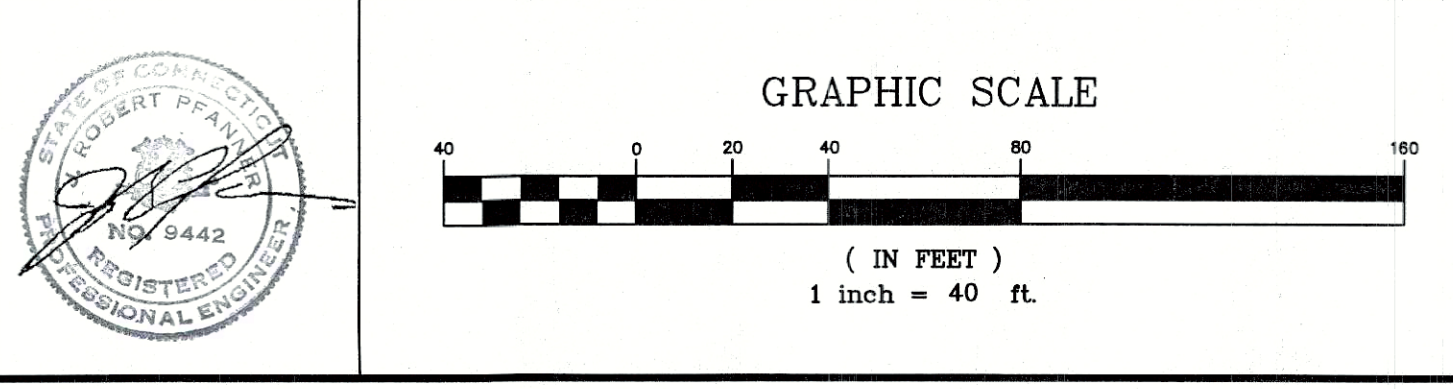
DATE: 8/23/2016 DRAWN BY: RDP

NO.	DATE	DESCRIPTION	BY
3	12/1/16	PESTICIDE TESTING LOCATION ADDED	RDP
2	10/04/16	AS PER VICTOR BENNI 10/3/16 LETTER	RDP
1	9/23/16	SYSTEM FOR LOT 30-2 REVISED	RDP

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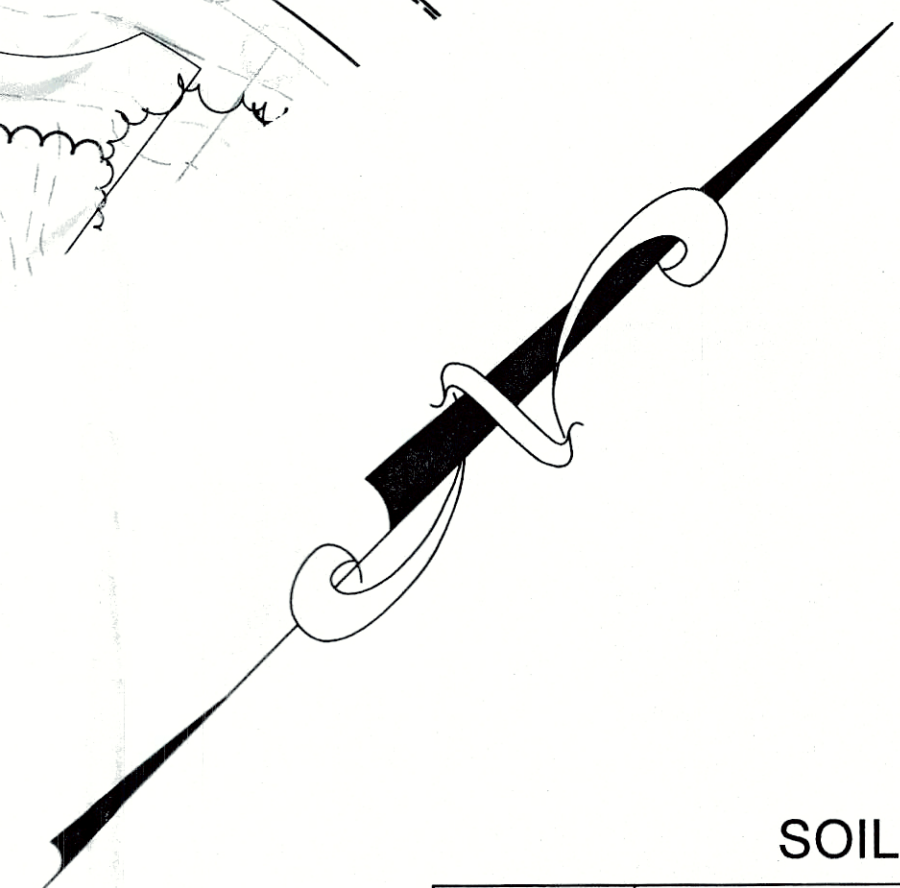
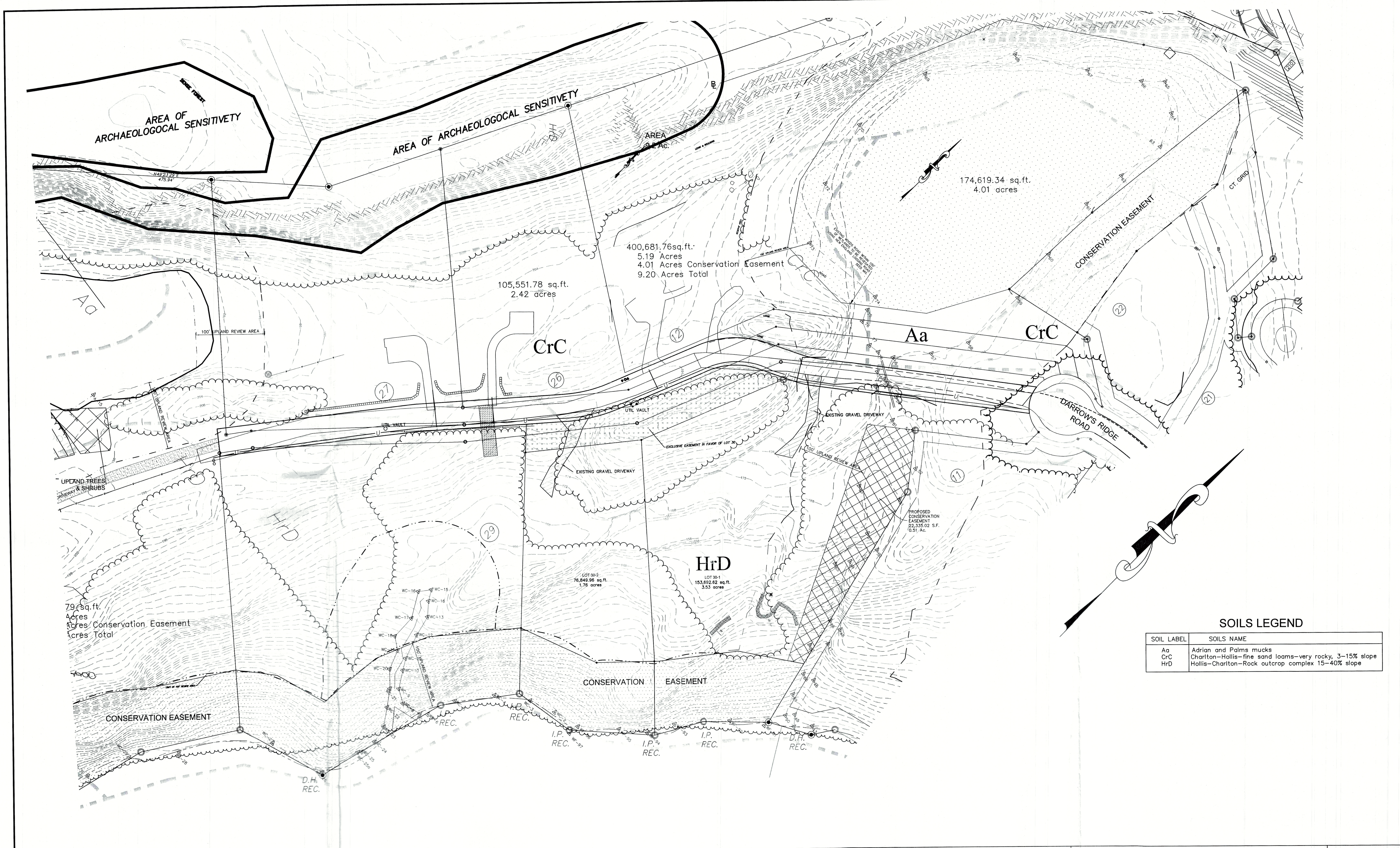
J. ROBERT PFANNER & ASSOCIATES, P.C.
CIVIL ENGINEERS & LAND SURVEYORS

37 GRAND STREET NIANTIC, CONNECTICUT 06357
 TEL. 860-739-6216 FAX 860-739-0693



RESUBDIVISION - GRADING-E&S PLAN
DARROWS POINT
 PREPARED FOR PAZZ & CONSTRUCTION LLC
 EAST LYME, CONNECTICUT

SHEET NUMBER
SD3
 15010-5.DWG



SOILS LEGEND

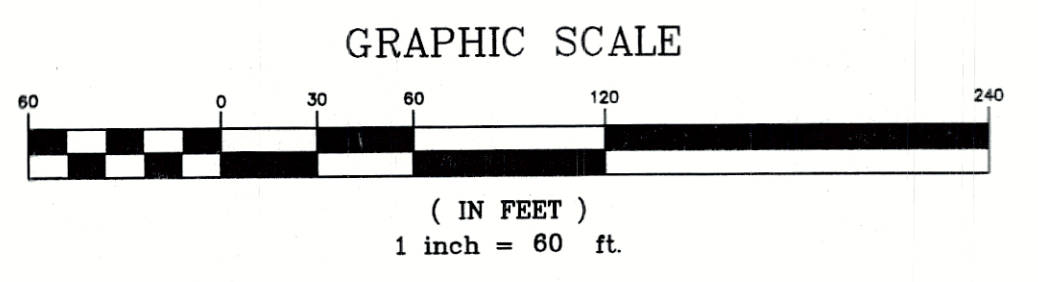
SOIL LABEL	SOILS NAME
Aa	Adrian and Palms mucks
CrC	Charlton-Hollis-fine sand loams-very rocky, 3-15% slope
HrD	Hollis-Charlton-Rock outcrop complex 15-40% slope

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DATE: 8/25/2016		DRAWN BY: RJP	
NO.	DATE	DESCRIPTION	BY

J. ROBERT PFANNER & ASSOCIATES, P.C.
CIVIL ENGINEERS & LAND SURVEYORS

37 GRAND STREET NIANTIC, CONNECTICUT 06357
 TEL. 860-739-6216 FAX 860-739-0693



RESUBDIVISION
 NATURAL AND CULTURAL RESOURCES PLAN
 DARROWS POINT
 PREPARED FOR PAZZ & CONSTRUCTION LLC
 EAST LYME, CONNECTICUT

SHEET NUMBER
SD4
 15010-5.DWG

TEST HOLE DATA
OBSERVED BY RYAN McCAMMON & ROBERT D. PFANNER ON 11/7/14

TEST HOLE 'A' (ELEV=122.4)
0-4 BROWN TOPSOIL W/ROOTS
4-18 ORANGE BROWN FINE SANDY LOAM W/ROOTS
18-45/48 TAN FINE SILTY LOAM COMPACT MOIST LEDGE @ 45,48,48 S-N

TEST HOLE 'B' (ELEV=126.0)
0-4 BROWN TOPSOIL W/ROOTS
4-20 ORANGE BROWN FINE SANDY LOAM W/ROOTS
20-40 TAN FINE SILTY LOAM W/ROOTS
LEDGE @ 40", REDOX @ 20"

TEST HOLE 'C' (ELEV=123.2)
0-5 BROWN TOPSOIL W/ROOTS
5-33 ORANGE BROWN SANDY LOAM W/ROOTS
33-48 FINE-MED SILTY LOAM W/STAINING, COMPACT
48-50/63 COARSE AND WET SAND AND GRAVEL
LEDGE @ 63-50" S-N, WATER @ 48", REDOX @ 30"

TEST HOLE 'D' (ELEV=119.5)
0-4 BLACK TOPSOIL
4-21 ORANGE BROWN MED SANDY LOAM
21-45 TAN FINE SILTY LOAM, COMPACT
LEDGE @ 45,43,42" S-N, NO WATER

TEST HOLE 'E' (ELEV=118.5)
0-4 BLACK TOPSOIL
4-32 MED BROWN SANDY LOAM
32-50 COARSE SAND AND GRAVEL
50-72 WET MED SAND
LEDGE 60-72 S-N, WATER @ 50"

TEST HOLE 'F' (127.00)
0-4 BLACK TOPSOIL
4-28 ORANGE MED SANDY LOAM W/ROOTS
28-48 TAN FINE SILTY LOAM, COMPACT
48-55" COARSE WET SAND & GRAVEL
LEDGE @ 55, SEEPING @ 48" AND WET @ 28"

TEST HOLE 'G' (ELEV=119.8)
LEDGE @ 18"

PERC TEST 'F1'
PRESOAK @ 4:10 DRY AT 4:22
4:23 17.5"
4:25 22"
4:27 23.75"
4:30 26.5"
4:33 28 1/2"
4:35 DRY
TIME OF DROP=8 MIN
DROP = 6.5"
PERC RATE =1.2 MIN/INCH

SITE TESTING
DARROWS RIDGE V
JULY 11, 2006

TEST HOLE #640
0-10" topsoil & humus
10-34/36" dark brown fine loamy sand
34-45" orange brown fine loamy sand
-ledge 65", no water, no max. water

TEST HOLE #641
0-4" topsoil
4-38" dark brown sandy loam
38-45" orange med/fine to fine sand & stone
-ledge 65", no water, ledge control

SITE TESTING
DARROWS RIDGE SUBDIVISION
JANUARY 15, 2005

TEST HOLE #617
0-8" humus
8-32/33" brown sandy loam/silt loam
32-53" dark orange/brown fine silty sand & stone
-ledge 32-53" (E-W), water 45", max. water 24"

TEST HOLE #618
0-43/45" dark brown silt loam
43-52/48" mix fractured rock/ledge with silty sand & stone
-ledge 48-45-32" (E-W), no water, ledge control

TEST HOLE #619
0-8" humus
8-26/27" brown sandy loam/silt loam
26-51" dark brown fine to very fine silty sand & stone
-ledge 12-51" (E-W), water 28", max. water 18/20"

TEST HOLE DATA
OBSERVED BY RYAN McCAMMON & ROBERT D. PFANNER ON 11/28/12

TEST HOLE 'PC1'
0-7 DARK BROWN TOPSOIL VERY FRIABLE W/ROOTS
7-25 ORANGE BROWN FINE SANDY LOAM FRIABLE W/ROOTS
25-56 LIGHT GREY FINE SILTY LOAM FIRM WET
LEDGE @ 56" WEEPING @ 48" REDOX @ 25"

TEST HOLE 'PC2'
0-3 DARK BROWN TOPSOIL VERY FRIABLE W/ROOTS
3-21 MEDIUM BROWN MED SANDY LOAM FRIABLE W/ROOTS
21-35 LIGHT GREY FINE SILTY LOAM FIRM
35-77" GREY ROTTEN ROCK/SANDY LOAM FRIABLE
LEDGE @ 77" WEEPING @ 74" REDOX @ 21"

TEST HOLE 'PC3'
0-3 DARK BROWN TOPSOIL VERY FRIABLE W/ROOTS
3-27 ORANGE BROWN FINE SANDY LOAM FRIABLE W/ROOTS
27-63 GREY MEDIUM SANDY LOAM/ROTTEN ROCK FRIABLE WET
LEDGE @ 63" WEEPING @ 46" REDOX @ 27"

SEPTIC DESIGN NOTES LOT 30-1

- BASIS OF SANITARY DESIGN = 6 BEDROOM HOUSE WITH 1-10 MIN./IN. PERC. RATE. USE MIN. 1500 GALLON SEPTIC TANK WITH GST6218 AS SHOWN.
TOTAL LEACHING AREA REQUIRED = 825 S.F.
AREA PROVIDED = 59' GST6218 @ 14.0 S.F./L.F.=826 S.F.
- WATER SUPPLY BY ON SITE WELL.
- SOLID PIPING BETWEEN SEPTIC TANK AND TRENCHES TO BE D3034 SDR 35 PVC WITH MIN 1/4" PER FOOT SLOPE.
- REMOVE ANY UNSUITABLE MATERIAL WITHIN SEPTIC SYSTEM AND REPLACE WITH "SELECT FILL MATERIAL" THE FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA:

SIEVE SIZE	PERCENT PASSING WET SIEVE	PERCENT PASSING DRY SIEVE
#4	100	100
#10	70% - 100%	70% - 100%
#40	10% - 50%*	10% - 75%
#100	0% - 20%	0% - 5%
#200	0% - 5%	0% - 2.5%

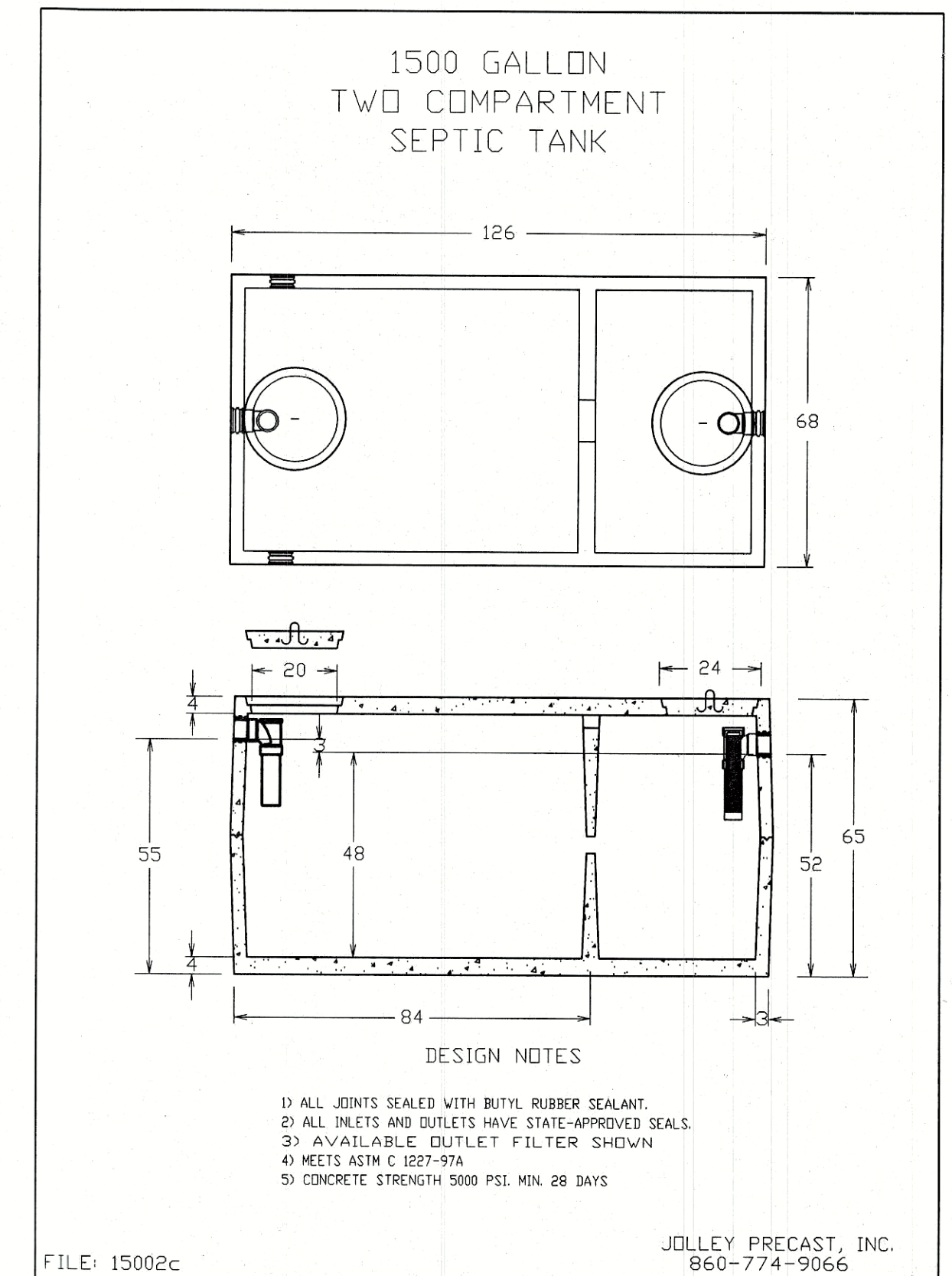
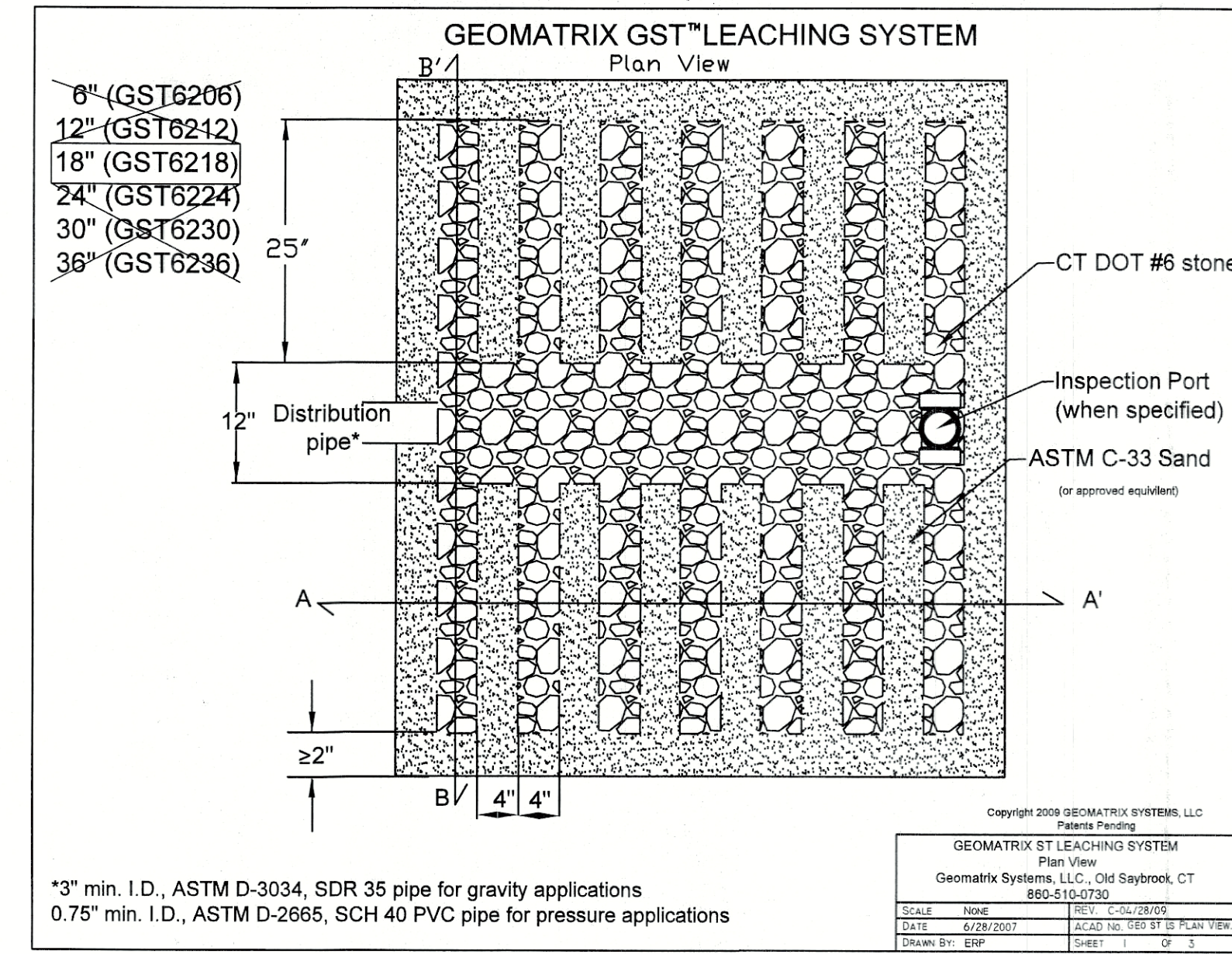
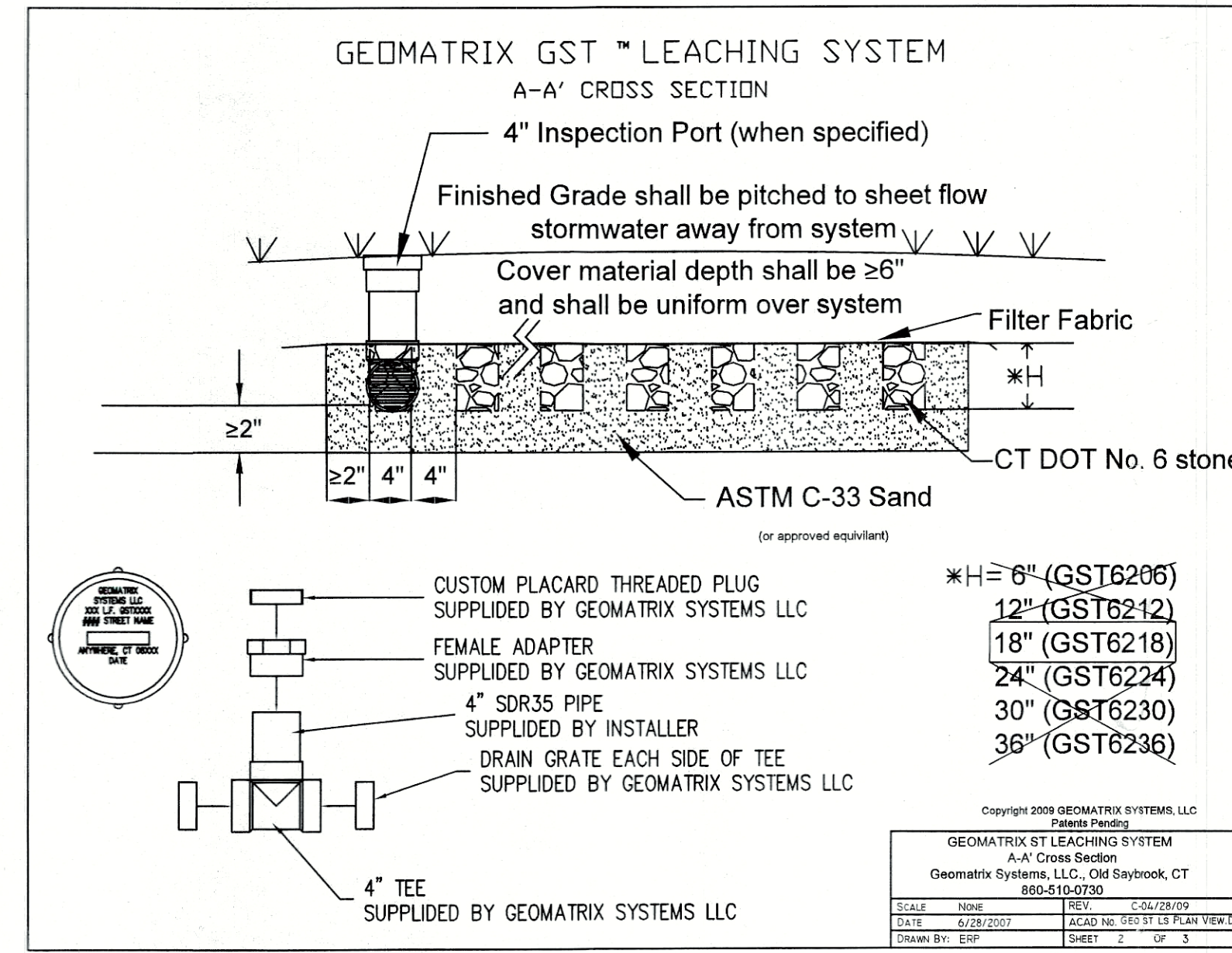
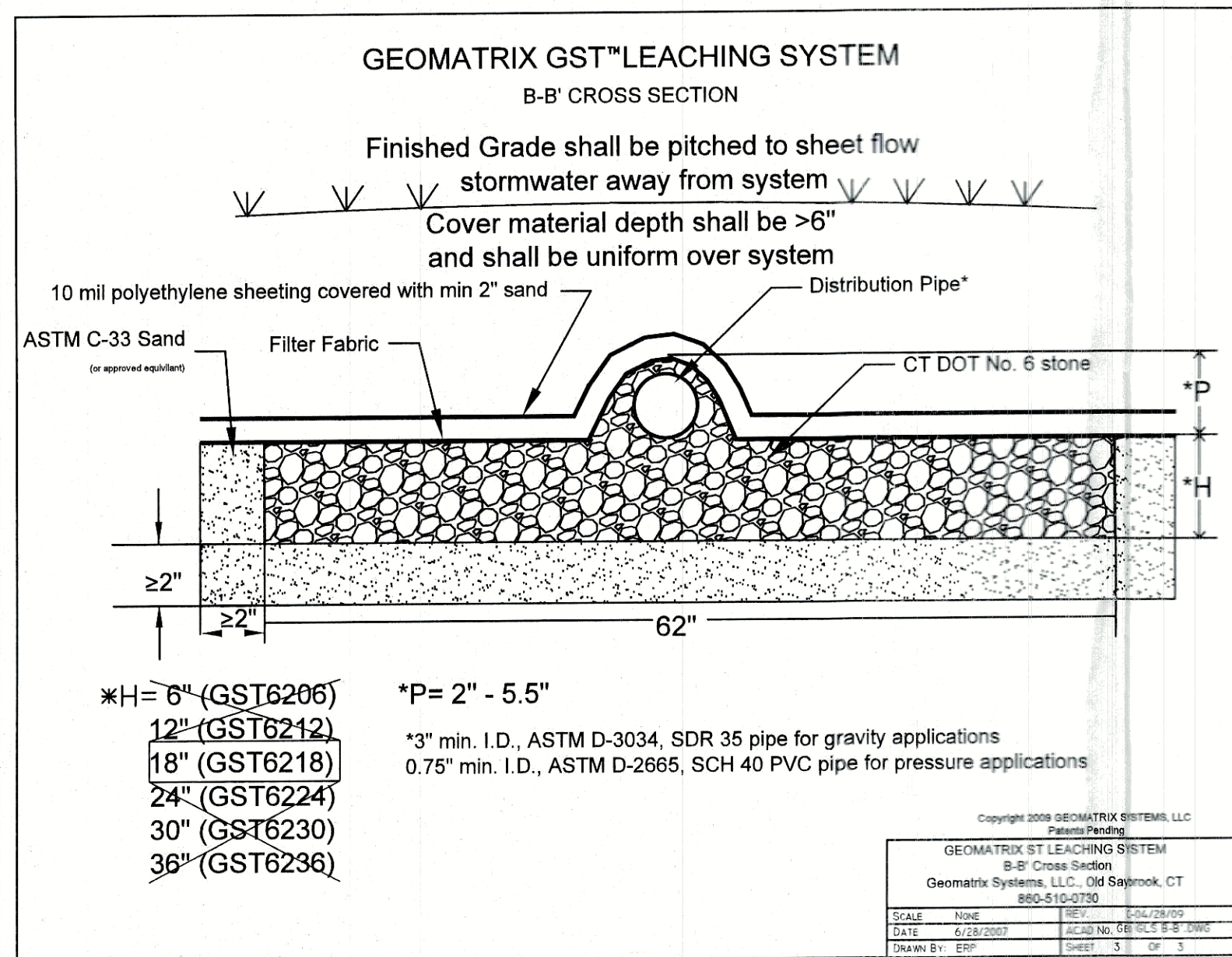
* THE PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.
- SEPTIC TANKS GREATER THAN 12" BELOW FINISH GRADE SHALL HAVE MANHOLES EXTENDED TO WITHIN 12" OF FINISH GRADE. SEPTIC TANKS MUST CONFORM TO ASTM C-1227 AND THE NEW CONNECTICUT PUBLIC HEALTH CODE REVISED JANUARY 1, 2015.
- ALL PIPING FROM BUILDING TO SEPTIC TANK SHALL BE PVC SCHEDULE 40, ASTM D 1785 OR ASTM D 2665 WITH RUBBER COMPRESSION GASKET COUPLINGS, HARCO MFG., ASTM D 3139 OR SOLVENT WELDED COUPLINGS/ FITTINGS USING PROPER TWO STEP PVC SOLVENT SOLUTION PROCEDURE. PIPE SLOPE TO BE MIN 1/4" PER FOOT.
- SEPTIC SYSTEM SHALL BE STAKED OUT BY A LICENSED LAND SURVEYOR.
- THE INSTALLER SHALL SUBMIT AS-BUILT SCALE DRAWINGS AND OR TIED AS-BUILT TO THE LEDGE LIGHT HEALTH DISTRICT UPON 30 DAYS OF COMPLETION WITH DISTANCES TO FLOW LINE AT HOUSE, INLET AND OUTLET COVER OF TANK, D-BOXES, CLEANOUTS, END OF LEACHING ROWS, WELL, FOOTING/CURTAIN DRAINS AND BETWEEN TIE POINTS. IN ADDITION, PROVIDE THE NAME OF INSTALLER, DATE, HOUSE LOCATION AND STREET/DIRECTION ARROW.
- NO GARBAGE GRINDER SHALL BE USED IN THIS HOUSE WITHOUT A CHANGE IN THE SEPTIC TANK SIZE.
- MLSS CALCULATION: RESTRICTIVE LAYER=41.75", SLOPE=20%, NUMBER OF BEDROOMS=6
HYDRAULIC FACTOR=16, FLOW FACTOR=2.5, PERC FACTOR=1.0
MLSS=16 x 2.5 x 1.0 = 40 FEET

SEPTIC DESIGN NOTES LOT 30-2

- BASIS OF SANITARY DESIGN = 4 BEDROOM HOUSE WITH 1-10 MIN./IN. PERC. RATE. USE MIN. 1250 GALLON SEPTIC TANK WITH GST6218 AS SHOWN.
TOTAL LEACHING AREA REQUIRED = 660 S.F.
AREA PROVIDED = 49' GST6218 @ 14.0 S.F./L.F.=686 S.F.
- WATER SUPPLY BY ON SITE WELL.
- SOLID PIPING BETWEEN SEPTIC TANK AND TRENCHES TO BE D3034 SDR 35 PVC WITH MIN 1/4" PER FOOT SLOPE.
- REMOVE ANY UNSUITABLE MATERIAL WITHIN SEPTIC SYSTEM AND REPLACE WITH "SELECT FILL MATERIAL" THE FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA:

SIEVE SIZE	PERCENT PASSING WET SIEVE	PERCENT PASSING DRY SIEVE
#4	100	100
#10	70% - 100%	70% - 100%
#40	10% - 50%*	10% - 75%
#100	0% - 20%	0% - 5%
#200	0% - 5%	0% - 2.5%

* THE PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.
- SEPTIC TANKS GREATER THAN 12" BELOW FINISH GRADE SHALL HAVE MANHOLES EXTENDED TO WITHIN 12" OF FINISH GRADE. SEPTIC TANKS MUST CONFORM TO ASTM C-1227 AND THE NEW CONNECTICUT PUBLIC HEALTH CODE REVISED JANUARY 1, 2015.
- ALL PIPING FROM BUILDING TO SEPTIC TANK SHALL BE PVC SCHEDULE 40, ASTM D 1785 OR ASTM D 2665 WITH RUBBER COMPRESSION GASKET COUPLINGS, HARCO MFG., ASTM D 3139 OR SOLVENT WELDED COUPLINGS/ FITTINGS USING PROPER TWO STEP PVC SOLVENT SOLUTION PROCEDURE. PIPE SLOPE TO BE MIN 1/4" PER FOOT.
- SEPTIC SYSTEM SHALL BE STAKED OUT BY A LICENSED LAND SURVEYOR.
- THE INSTALLER SHALL SUBMIT AS-BUILT SCALE DRAWINGS AND OR TIED AS-BUILT TO THE LEDGE LIGHT HEALTH DISTRICT UPON 30 DAYS OF COMPLETION WITH DISTANCES TO FLOW LINE AT HOUSE, INLET AND OUTLET COVER OF TANK, D-BOXES, CLEANOUTS, END OF LEACHING ROWS, WELL, FOOTING/CURTAIN DRAINS AND BETWEEN TIE POINTS. IN ADDITION, PROVIDE THE NAME OF INSTALLER, DATE, HOUSE LOCATION AND STREET/DIRECTION ARROW.
- NO GARBAGE GRINDER SHALL BE USED IN THIS HOUSE WITHOUT A CHANGE IN THE SEPTIC TANK SIZE.
- MLSS CALCULATION: RESTRICTIVE LAYER=65" IN PRIMARY THEREFOR NO MLSS REQUIRED



DATE: 8/18/2016	DRAWN BY: RDP		
1	9/23/16 TESTING RESULTS ADDED		
NO.	DATE	DESCRIPTION	BY
		REVISIONS	

J. ROBERT PFANNER & ASSOCIATES, P.C.
CIVIL ENGINEERS & LAND SURVEYORS

37 GRAND STREET NIANTIC, CONNECTICUT 06357
TEL. 860-739-6216 FAX 860-739-0693

SCALE AS NOTED

RESUBDIVISION - SEPTIC SYSTEM DATA
DARROWS POINT
PREPARED FOR PAZZ & CONSTRUCTION LLC
EAST LYME, CONNECTICUT

SHEET NUMBER
SD5
15010-3.DWG

MAINTENANCE OF STORMWATER BASINS

There are three (2) stormwater basins shown on the above-referenced plan identified as Basin No. 1 (located on Lot No. 30-2), Basin No. 2 (located on Lot No.30-1 & 30-2). It shall be the obligation of the respective lot owners upon which such basins are located to perform the following maintenance schedule with respect to each of said basins:

All drainage structures should be inspected semi annually; generally in the beginning of spring and at the end of fall, as well as after any major storm events. The inspection and maintenance would include the following:

1. Remove any brush, litter and debris that may have collected within the basin and or rain garden.
2. Check and clear the outlet pipe of any debris.
3. Check vegetation and plantings and remove and replace any dead plants.
4. If sediment has collected and/or accumulated, it should be removed by hand tools.
5. Grass area within the basins should be mowed twice a year in late spring and early fall. The plate biomass should be removed by raking.
6. In case of transfer of property ownership, future property owners shall be notified of the presence of the stormwater management system and requirements for property implementation of the Drainage Inspection and Maintenance Schedule.

RAIN GARDENS IN CONNECTICUT PLANT LIST (UNIVERSITY OF CONNECTICUT) PERENNIALS

- A. Swamp milkweed (*Asclepias incarnata*)
- B. New York aster (*Aster novae-belgii*)
- C. Astilbe (*Astilbe* spp.)
- D. Tuckered milk-ore (*Silene arifolia*)
- E. Joe Pye weed (*Eupatorium fl. stulosum*)
- F. Rose milk-ore (*Silene maritima*)
- G. Iris (*Iris versicolor*)
- H. Cardinal flower (*Lobelia cardinalis*)
- I. Spotted gay feather (*Liatris scariosa*)
- J. Sensitive fern (*Osmunda cinnamomea*)
- K. Christmas fern (*Osmunda cinnamomea*)
- L. Royal fern (*Osmunda regalis*)
- M. Marsh fern (*Thelypteris palustris*)
- N. Spikenard (*Troscodactylon virginicum*)
- O. Black-eyed Susan (*Rudbeckia hirta*)

GRASSES

- P. Creeping bentgrass (*Agrostis stolonifera*)
- Q. Meadow fescue (*Festuca pratensis*)
- R. Blue joint (*Calamagrostis canadensis*)
- S. Tussock sedge (*Carex stricta*)

SIRIUSES

- T. Tufted hair grass (*Deschampsia cespitosa*)
- U. Switch grass (*Panicum virgatum*)
- V. Ribbon grass (*Phalaris arundinacea*)

RAINFLOWERS

- 1. Red chokesberry (*Aronia arbutifolia*)
- 2. Buttonbush (*Cephalanthus occidentalis*)
- 3. Summertime aster (*Aster multiflorus*)
- 4. Silky dogwood (*Cornus amomum*)
- 5. Gray dogwood (*Cornus racemosa*)
- 6. Red osier dogwood (*Cornus sericea*)
- 7. Ineberry (*Ilex glabra*)
- 8. Winterberry (*Ilex verticillata*)
- 9. Spicebush (*Lindera occidentalis*)
- 10. Pinkflower azalea (*Rhododendron paniculatum*)
- 11. Swamp azalea (*Rhododendron viticosum*)
- 12. Dogwood (*Cornus florida*)
- 13. Loblolly blueberry (*Vaccinium corymbosum*)
- 14. Highbush blueberry (*Vaccinium corymbosum*)
- 15. Withered (*Viburnum cassinoides*)
- 16. Arrowwood (*Viburnum dentatum*)
- 17. Honeysuckle (*Viburnum lentago*)
- 18. Black haw (*Viburnum prunifolium*)
- 19. American cranberry (*Viburnum trilobum*)

TREES

One or more trees can be added to a rain garden, depending upon its size. Caution should be used though, as a tree can quickly take over the garden and create a different look. Remember, most trees will grow very large unless they are purposely kept small. If a tree is desired, the following types are recommended:

- 20. River birch (*Betula nigra*)
- 21. Red maple (*Acer rubrum*)
- 22. Sweetgum (*Liquidambar styraciflua*)

MISC PLANTS FROM "RAIN GARDENS IN CONNECTICUT PLANT LIST"

DRAINAGE BASIN DETAIL
NOT TO SCALE

PLUNGE POOL/SPREADER
NOT TO SCALE

TEMPORARY CONSTRUCTION EXIT

MAINTENANCE:
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

SECTION A-A

SECTION B-B

DESIGNATION

	A	B	C	D	E	F	G	H
BASIN #1	4 FT	8 FT	5 FT	4 IN	3 FT	2 %	167.5 FT	68.0 FT
BASIN #2	6 FT	10 FT	8 FT	4 IN	3 FT	2 %	159.0 FT	160.0

PESTICIDE SOIL SAMPLE TEST RESULTS

Page 1

Client Name: Pazz Construction Date Extracted: 11/21/16
 CTL Lab No.: 1116312 Date Analyzed: 11/22/16
 Job/PO No.: NA Analyst: SM
 Report Date: 11/23/16

EPA METHOD 8081A Date Samples Recd: 11/21/16

Matrix Type:	S	S	
CTL Sample #:	17483	17484	
Field ID:	Sample 1	Sample 2	
Parameters-ug/kg	RL	ND	ND
Aldrin	25	ND	ND
a-BHC	50	ND	ND
b-BHC	50	ND	ND
g-BHC	50	ND	ND
Lindane	25	ND	ND
Chlordane	50	ND	ND
4,4'-DDD	50	ND	ND
4,4'-DDE	50	ND	ND
4,4'-DDT	50	ND	ND
Dieldrin	5	ND	ND
Endosulfan I	100	ND	ND
Endosulfan II	100	ND	ND
Endosulfan Sulfate	100	ND	ND
Endrin	50	ND	ND
Endrin Aldehyde	50	ND	ND
Heptachlor	10	ND	ND
Heptachlor Epoxide	20	ND	ND
Methoxychlor	50	ND	ND
Toxaphene	300	ND	ND

RL= Reporting Limit ND= Not Detected

Matrix Types: W=Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
 165 Gracey Avenue / Meriden, CT 06451
 (203) 634-3731 (Fax) 634-1316
 Certification: C1-PR0047/MS-C106

EROSION & SEDIMENT CONTROL NARRATIVE

- PRE-CONSTRUCTION**
1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN TO PREVENT OR MINIMIZE SOIL EROSION.
 2. THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE LAND OWNER, DEVELOPER, AND THE EXCAVATION CONTRACTOR. TOWN OFFICIALS SHALL BE NOTIFIED IN WRITING OF THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE INDIVIDUAL RESPONSIBLE FOR THIS WORK.
 3. THE CONTRACTOR SHALL USE THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002), AS AMENDED, AS A GUIDE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS. THE GUIDELINES MAY BE OBTAINED FROM THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, STATE OFFICE BUILDING, HARTFORD, CT 06106.
 4. THE CONTRACTOR SHALL INFORM ALL CONSTRUCTION SITE WORKERS ABOUT THE MAJOR PROVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN AND SEEK THEIR COOPERATION IN AVOIDING THE DISTURBANCE OF THESE CONTROL MEASURES.
 5. THE CONTRACTOR SHALL SCHEDULE ALL OPERATIONS TO LIMIT DISTURBANCE TO THE SMALLEST PRACTICAL AREA FOR THE SHORTEST POSSIBLE TIME.
 6. THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, REPAIR OR REPLACEMENT OF EROSION CONTROL DEVICES TO INSURE PROPER OPERATION.
 7. THE CONTRACTOR SHALL INSPECT AND REPAIR EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY AND AFTER EACH STORM.
 8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF UNSATISFACTORY EROSION CONDITIONS NOT CONTROLLED BY THE EROSION AND SEDIMENT CONTROL PLAN AND SHALL INSTALL ADDITIONAL MEASURES AS DIRECTED.
 9. FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE ONLY WITH THE APPROVAL OF THE ENVIRONMENTAL TOWN PLANNER OR AGENT. I.E. LOCATION OF SILT FENCE, STOCKPILE, DEWATERING AREA ETC.
 10. ACCUMULATED SEDIMENT REMOVED FROM EROSION CONTROL DEVICES IS TO BE SPREAD AND STABILIZED IN LEVEL, EROSION RESISTANT LOCATIONS AS GENERAL FILL WITHIN LAWN AND LANDSCAPE AREAS.
 11. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PAVEMENT OR WOOD MULCH SHALL BE PLANTED WITH GRASS ON 4 IN. TOPSOIL.
 12. MULCHING IMMEDIATELY FOLLOWING SEEDING, MULCH THE SEDED SURFACE WITH STRAW OR HAY AT A RATE OF 70 LBS./1000 SF. SPREAD MULCH BY HAND OR MULCH BLOWER. PUNCH MULCH INTO SOIL SURFACE WITH TRACK MACHINE APPROXIMATELY 2-3 IN. TO ANCHOR.
 13. SEEDING BETWEEN APRIL 1 TO JUNE 1, AND AUGUST 15 TO SEPTEMBER 1. ALL DISTURBED AREAS SHALL BE IMMEDIATELY GRADED AND SEED TO PROMOTE STABILIZATION OF SLOPES.
 14. A FABRIC FILTER SOCK SHALL BE USED FOR ANY DEWATERING.
- DURING CONSTRUCTION**

SOIL AND EROSION CONTROL

1. HAY BALES / SILT FENCE ARE TO BE INSTALLED PRIOR TO CONSTRUCTION.
2. ONLY REMOVE TREES AND VEGETATION NECESSARY FOR CONSTRUCTION.
3. PERMANENT SEEDING SHOULD BE DONE AS SOON AS POSSIBLE AFTER CONSTRUCTION FINISHES. LIME AND FERTILIZER. RECOMMENDED SEEDING DATES ARE APRIL 15 TO JUNE & AUG. 15 TO OCT. 1.
4. RECOMMENDED SEED (PER EROSION AND SEDIMENT CONTROL HANDBOOK) KY31 TALL FESCUE 150 lbs. PER ACRE.
5. HAY BALES AND SILT FENCE TO REMAIN WHERE PLACED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
6. NO ERODED SEDIMENT SHALL BE PERMITTED TO LEAVE THE SITE OR WASH INTO THE DRAINAGE SYSTEM.
7. IF SEEDING CANNOT MEET RECOMMENDED DATES, TEMPORARY MULCH IS TO BE APPLIED IN ACCORDANCE WITH THE TABLE BELOW.

MULCHES	RATES PER 1000 FT	NOTES
STRAW OR HAY 1/2 - 2 TONS PER ACRE	70-90lbs.	FREE FROM WEEDS & COURSE MATTER. MUST BE ANCHORED SPREAD WITH MULCH BLOWER OR BY HAND

TYPICAL HAY BALE INSTALLATION

1. EXCAVATE A TRENCH 4" DEEP AND THE WIDTH OF A STRAW BALE.
2. PLACE AND STAKE STRAW BALES, TWO STAKES PER BALE.
3. WEDGE LOOSE STRAW BETWEEN BALES TO CREATE A CONTINUOUS BARRIER.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL, AS SHOWN, ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

TYPICAL STOCKPILE AREA

NOTE:

1. Silt Fence to be installed prior to stockpiling material.
2. No stockpile location shall be located outside the limit of disturbance or within 100' of any wetlands.

SILT FENCE INSTALLATION AT CATCH BASINS

HAY BALE INSTALLATION AT CATCH BASINS

CATCH BASINS ON SLOPING ROADS

TYPICAL SILT FENCE INSTALLATION

Basins on sloping roads should not be ringed. Bales or silt fence should be placed in a configuration to contain flows without "end runs". Containments should be up slope of basins.

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DATE: 8/18/2016 DRAWN BY: RDP

NO.	DATE	DESCRIPTION	BY
2	12/1/16	PESTICIDE TESTING ADDED	RDP
1	10/4/16	DETAILS ADDED AND UPDATED	RDP

J. ROBERT PFANNER & ASSOCIATES, P.C.
 CIVIL ENGINEERS & LAND SURVEYORS

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 TEL. 860-739-6216 FAX 860-739-0693

SCALE AS NOTED

RESUBDIVISION - DETAILS
 DARROWS POINT
 PREPARED FOR PAZZ & CONSTRUCTION LLC
 EAST LYME, CONNECTICUT

SHEET NUMBER
SD6

15010-3.DWG