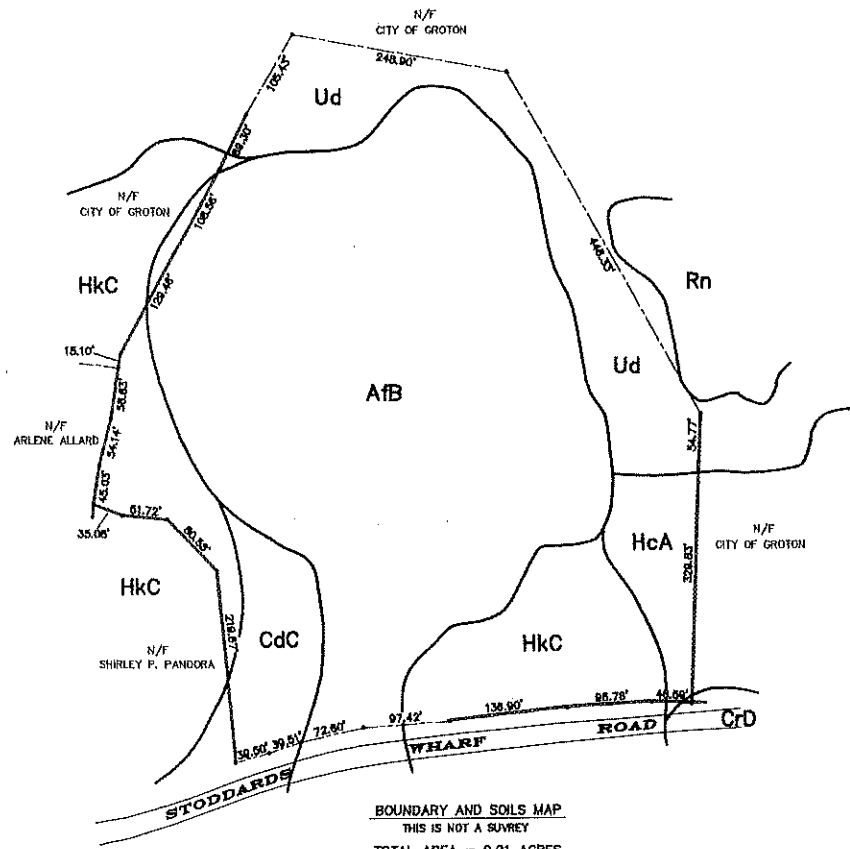


APPROVED BY THE LAYED PLANNING AND SURVEYING COMMISSION AS TO THE COMPLIANCE WITH THE REGULATIONS GOVERNING THE SUBDIVISION OF LAND. ALL IMPROVEMENTS SHALL BE COMPLETED BY _____ DATE _____

CHAIRMAN OR SECRETARY _____ DATE _____

RECORD AND EXEMPTION CONTROL PLAN CARRIED BY VOTE OF THE LAYED PLANNING AND SURVEYING COMMISSION ON _____ DATE _____

LOT NUMBERS ASSIGNED BY THE COMMISSION _____

APPROVED _____ DATE _____

TYPE: APPLICATION _____

APPROVED _____

NO PRESENT ENCUMBRANCE (NOT WITHIN A REGULATED AREA)

NO APPLICABLE AT THE TIME (WITHIN A REGULATED AREA)

NO REGULATED ACTIVITY PROPOSED AT THE TIME

VEHICLE OFFICER _____ DATE _____

APPROVED BY THE DIRECTOR OF PUBLIC WORKS ON THE TOWN ENGINEER FOR PUBLIC WAY LAYOUT. _____ DATE _____

PUBLIC WORKS DIRECTOR/TOWN ENGINEER _____ DATE _____

RECORD AND EXEMPTION CONTROL PLAN CARRIED BY VOTE OF THE LAYED PLANNING AND SURVEYING COMMISSION _____

CHAIRMAN OR SECRETARY OF THE LAYED PLANNING AND SURVEYING COMMISSION _____ DATE _____

APPROVED BY THE LAYED PLANNING AND SURVEYING COMMISSION _____ DATE _____

WORKING INFORMATION OFFICER _____ DATE _____

LEGEND

- STONE WALL
- PROPERTY LINE
- STREET LINE
- 98 STREET NUMBER

SOILS LEGEND

- Afb - AGAWAM FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES
- CdC - CANTON AND CHARLTON EXTREMELY STONY FINE SANDY LOAMS, 3 TO 15 PERCENT SLOPES
- CrD - CHARLTON-HOLLIS FINE SANDY LOAMS, VERY ROCKY, 15 TO 45 PERCENT SLOPES
- HcA - HAVEN SILT LOAM, 0 TO 3 PERCENT SLOPES
- HkC - HINCKLEY GRAVELLY SANDY LOAM, 3 TO 18 PERCENT SLOPES
- Rn - ROGERS, LEICESTER AND WHITMAN EXTREMELY STONY FINE SANDY LOAM
- Ud - URBAN/INDUSTRIAL-URBAN LAND COMPLEX

THIS DRAWING IS THE PROPERTY OF THE LAND SURVEYOR. THIS PLAN AND REPRODUCTIONS, ADDITIONS OR REVISIONS OF THIS PLAN ARE NOT VALID WITHOUT THE EMBOSSED SEAL AND SIGNATURE OF THE LAND SURVEYOR WHO PREPARED THIS PLAN. JOB# 22-007.DWG FBM/327

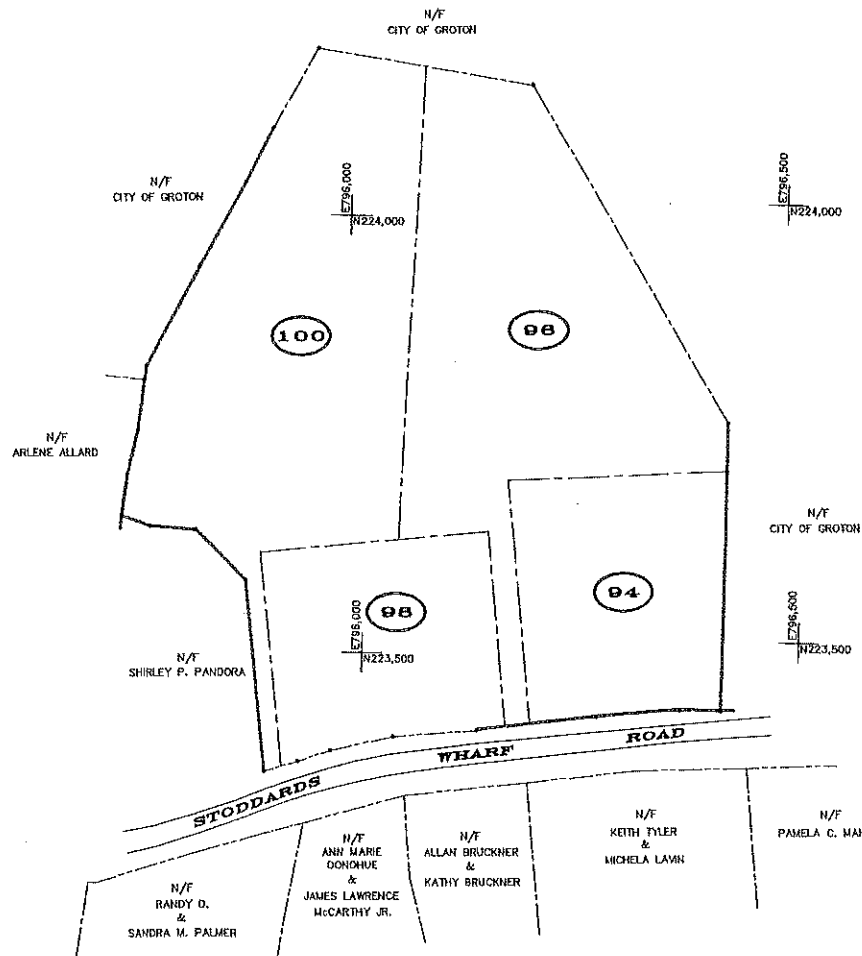
NOTE: BOUNDARY LINES OF ADJOINING PROPERTIES ARE SHOWN FOR GENERAL INFORMATION PURPOSES ONLY AND ARE NOT TO BE CONSTRUED AS BEING ACCURATELY LOCATED OR DEPICTED.

DIETER & GARDNER
LAND SURVEYORS - PLANNERS
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1841 CONNECTICUT ROUTE 12
GALES FERRY, CT. 06335
(860) 484-7455
EMAIL: DIETER.GARDNER@YAHOO.COM

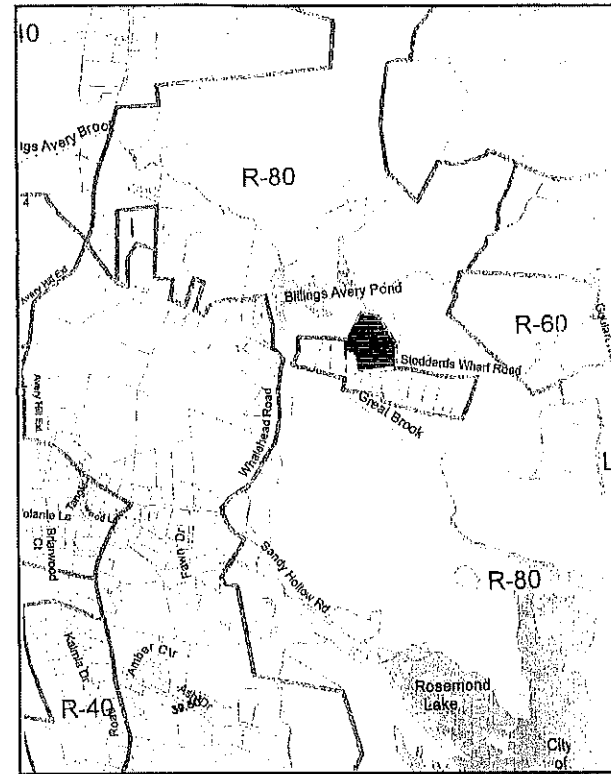
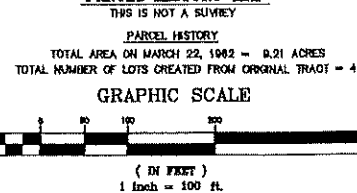
GENERAL NOTES:

1. MAP REFERENCES:

- SUBDIVISION PLAN PREPARED FOR AMER JAYAD 88 STODDARDS WHARF ROAD - (CONV. RTE 214) LEDYARD, CONNECTICUT BOUNDARY SURVEY MAP DATE: 8/12/11 SCALE: 1"=40' SHEET 1 OF 4 ADVANCED SURVEYS, LLC.
 - LOT DIVISION PLAN PROPERTY OF PANDE HOLDINGS, LLC 88 STODDARDS WHARF (CONNECTICUT ROUTE 214) LEDYARD, CONNECTICUT DATE: MAY 10, 2007 SCALE: 1"=40' SHEET NO. 1 OF 2, REVISIONS DATE 5/23/07 STREET ADDRESS, LOCATION MAP & NOTE 12 ADDED.
- CALL BEFORE YOU DIG AT 1-800-822-4455 BEFORE ANY CONSTRUCTION ACTIVITY.
 - ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM.
 - THIS SUBDIVISION WILL BE SERVED BY ON SITE WELLS AND ON SITE SEWAGE SYSTEMS.
 - HOUSES, WELLS, DRIVEWAYS, SEWAGE DISPOSAL SYSTEMS AND EROSION/SEDIMENT CONTROL MEASURES ARE SHOWN CONCEPTUALLY ONLY.
 - ZONING SETBACKS: LOTS SUBMITTED AS A SET-ASIDE DEVELOPMENT AS DEFINED IN CONNECTICUT GENERAL STATUTES SECTION 8-30c. MINIMUM FRONT YARD SETBACK 12' MINIMUM SIDE YARD SETBACK 5' MINIMUM REAR YARD SETBACK 15'
 - PASSIVE SOLAR TECHNIQUES AS PRESCRIBED BY LAW HAVE BEEN CONSIDERED IN THE DESIGN OF THIS SUBDIVISION.
 - NO PARKING SIGNS SHALL BE PLACED AS REQUIRED BY DIRECTOR OF PUBLIC WORKS.
 - ACTUAL CONDITIONS THAT DEVELOP OR ARE MORE CLEARLY ASSESSED DURING CONSTRUCTION MAY INDICATE THAT FIELD ADJUSTMENTS, INCLUDING ADDITIONAL DRAINAGE AND SIGHTLINE MEASURES, MAY BE NECESSARY FOR ADEQUATE STORMWATER MANAGEMENT. ADDITIONAL DESIGN EFFORT FOR INSTALLATION OF SUCH MEASURES SHALL BE UNDERTAKEN IN ACCORDANCE WITH DIRECTION FROM THE TOWN.
 - THE TOWN WILL INSTALL THE REQUIRED ROAD SIGNAGE AND MARKINGS, THE COST OF WHICH WILL BE BACKCHARGED TO THE APPLICANT/OWNER.



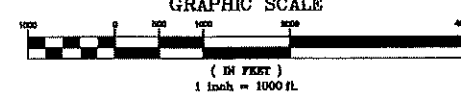
PARCEL HISTORY MAP



LOCATION MAP

ZONING DISTRICT: R-80

GRAPHIC SCALE



SHEET INDEX

- SHEET 1 - 100 SCALE BOUNDARY MAP, PARCEL HISTORY MAP, LOCATION MAP AND GENERAL NOTES
- SHEET 2 - 40 SCALE A-2 PLAN
- SHEET 3 - 40 SCALE CONCEPTUAL LAYOUT PLAN
- SHEET 4 - DEEP TEST PIT DATA
- SHEET 5 - PERCOLATION TEST RESULTS AND SEPTIC SYSTEM DESIGN CRITERIA
- SHEET 6 - 40 SCALE PLAN/PROFILE AVERY BROOK CIRCLE
- SHEET 7 - 40 SCALE PLAN/PROFILE AVERY BROOK CIRCLE
- SHEET 8 - 40 SCALE SIGHTLINE DEMONSTRATION PLAN
- SHEET 9 - EROSION AND SEDIMENT CONTROL, NARRATIVE AND DETAILS
- SHEET 10 - CONSTRUCTION DETAILS

PLAN SHOWING
RESUBDIVISION
PROPERTY OF
AVERY BROOK HOMES LLC
94, 96, 98 AND 100
STODDARDS WHARF ROAD
A.K.A.
CONNECTICUT ROUTE 214
LEDYARD, CONNECTICUT
SCALES AS SHOWN

JULY 2022

REVISED: OCTOBER 31, 2022
REVISED: DECEMBER 13, 2022

SHEET 1 OF 10

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300a-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ENFORCED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A BOUNDARY SURVEY BASED ON AN RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS "D". TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

TITLE: LAND SURVEYOR OF No. 14208

DATE: JULY 7, 2022

Exhibit
33

PZC

APPROVED BY THE LEDYARD PLANNING AND ZONING COMMISSION AS TO THE COMPLIANCE WITH THE REGULATIONS GOVERNING THE REZONING OF LAND. ALL IMPROVEMENTS SHALL BE COMPLETED BY _____ DATE _____

CHAIRMAN OR SECRETARY _____ DATE _____

ENGINEER AND RECORD CONTROL PLAN CHECKED BY VOTE OF THE LEDYARD PLANNING AND ZONING COMMISSION ON _____ DATE _____

LOT NUMBERS ASSIGNED BY THE ASSessor _____ DATE _____

APPROVED BY THE DIRECTOR OF PUBLIC WORKS ON THE TOWN ENGINEERING FOR PUBLIC WAY LAYOUT. _____ DATE _____

ENGINEER AND RECORD CONTROL PLAN CHECKED BY VOTE OF THE LEDYARD PLANNING AND ZONING COMMISSION - _____ DATE _____

CHAIRMAN OR SECRETARY OF THE LEDYARD PLANNING AND ZONING COMMISSION _____ DATE _____

APPROVED BY THE RECORDS DEPARTMENT OFFICE OF THE LEDYARD PLANNING COMMISSION _____ DATE _____

RECORDS DEPARTMENT OFFICE _____ DATE _____

DIETER & GARDNER
LAND SURVEYORS • PLANNERS
1841 CONNECTICUT ROUTE 12
P.O. BOX 335
GALES FERRY, CT, 06335
(860) 484-7453
EMAIL: DIETER.GARDNER@YAHOO.COM

LEGEND

- STONE WALL
- PROPERTY LINE
- STREET LINE
- DH FND DRILL HOLE FOUND
- IP FND IRON PIPE FOUND
- DRILL HOLE OR REBAR TO BE SET
- MONUMENT OR DRILL HOLE TO BE SET
- ⑦ CURVE TABLE NUMBER
- UTILITY POLE
- WF 1 EDGE OF WETLANDS & FLAG NUMBER
- ACCESS/UTILITY EASEMENT
- ② LOT NUMBER

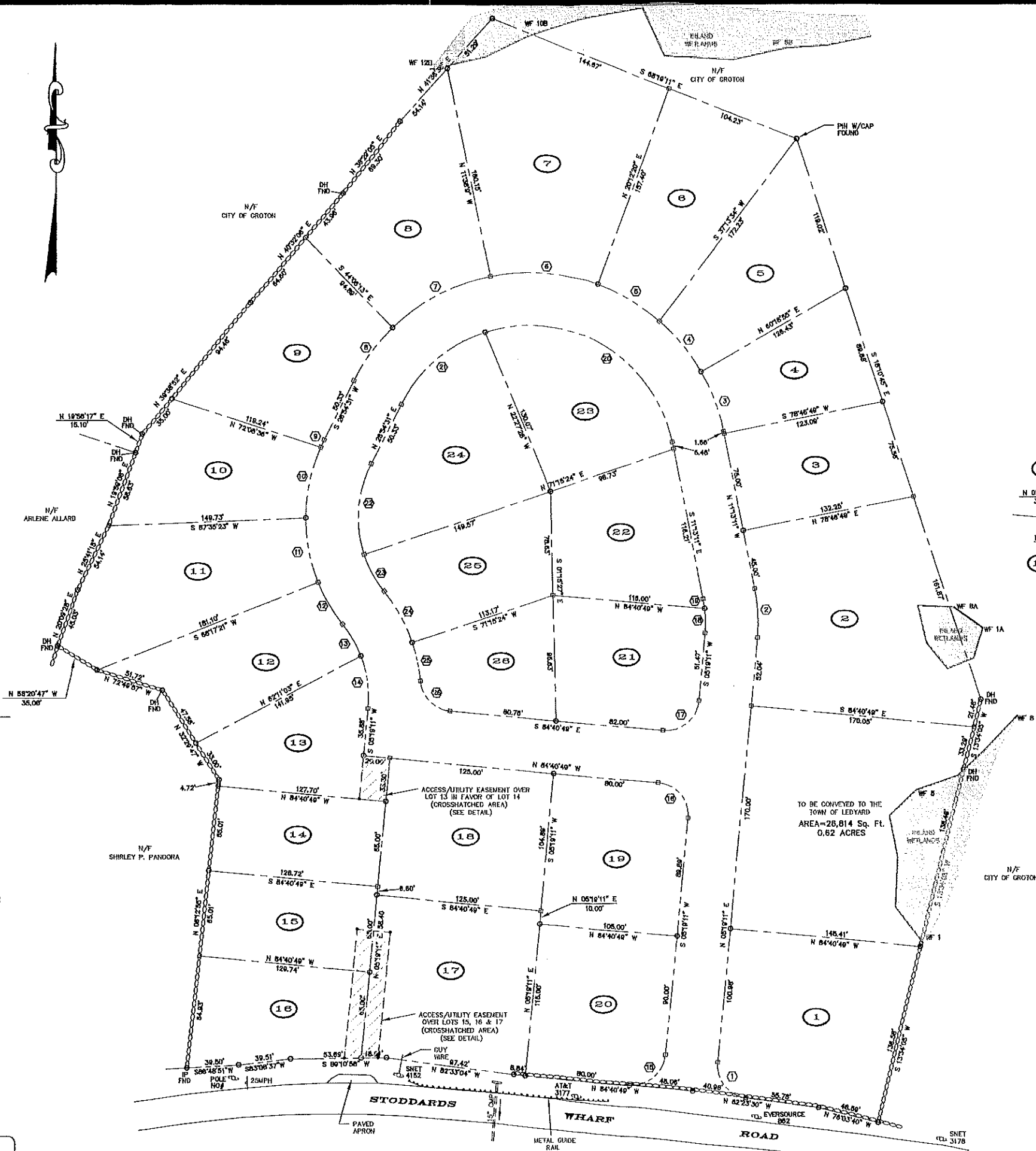
I HAVE REVIEWED THE INLAND WETLAND BOUNDARY I DELINEATED AND I AM OF THE OPINION THAT THE WETLAND BOUNDARY IS SHOWN CORRECTLY ON THIS MAP.

Jan Ock

JAN OCK
SOIL SCIENTIST

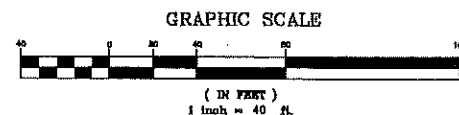
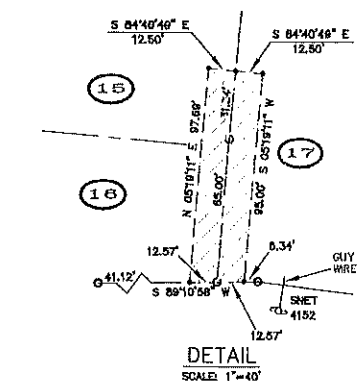
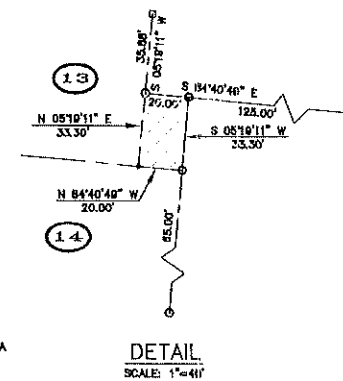
THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF THE PROFESSIONAL OPINION BY THE LAND SURVEYOR WHICH IS BASED ON HIS OR HER BEST KNOWLEDGE, INFORMATION AND BELIEF, AS SUCH IT CONSTITUTES NEITHER GUARANTEE OR WARRANTY. THE STONE WALLS AND/OR FENCES SHOWN AS BOUNDARIES MAY HAVE IRREGULARITIES OF COURSE BETWEEN PRINCIPAL POINTS OF COURSE INDICATED.

THIS DRAWING IS THE PROPERTY OF THE LAND SURVEYOR. THIS PLAN AND REPRODUCTIONS, ADDITIONS OR REVISIONS OF THIS PLAN ARE NOT VALID WITHOUT THE EMBOSSED SEAL AND SIGNATURE OF THE LAND SURVEYOR WHO PREPARED THIS PLAN. JOB# 22-007.DWG FBK#327



LOT NUMBER	TOTAL AREA
1	17,363 Sq. Ft. 0.40 ACRES
2	23,432 Sq. Ft. 0.54 ACRES
3	8,575 Sq. Ft. 0.22 ACRES
4	8,525 Sq. Ft. 0.20 ACRES
5	11,471 Sq. Ft. 0.26 ACRES
6	12,788 Sq. Ft. 0.29 ACRES
7	14,999 Sq. Ft. 0.32 ACRES
8	13,372 Sq. Ft. 0.31 ACRES
9	10,616 Sq. Ft. 0.24 ACRES
10	14,339 Sq. Ft. 0.33 ACRES
11	10,884 Sq. Ft. 0.25 ACRES
12	9,439 Sq. Ft. 0.22 ACRES
13	8,334 Sq. Ft. 0.19 ACRES
14	8,400 Sq. Ft. 0.19 ACRES
15	7,501 Sq. Ft. 0.17 ACRES
16	9,663 Sq. Ft. 0.22 ACRES
17	15,400 Sq. Ft. 0.35 ACRES
18	13,112 Sq. Ft. 0.30 ACRES
19	11,830 Sq. Ft. 0.27 ACRES
20	11,841 Sq. Ft. 0.27 ACRES
21	10,639 Sq. Ft. 0.24 ACRES
22	10,585 Sq. Ft. 0.24 ACRES
23	10,870 Sq. Ft. 0.25 ACRES
24	14,014 Sq. Ft. 0.32 ACRES
25	8,830 Sq. Ft. 0.20 ACRES
26	13,113 Sq. Ft. 0.30 ACRES

CURVE #	A	R	L	T
1	87°42'41"	25.00'	38.27'	24.02'
2	16°32'22"	130.00'	37.53'	18.89'
3	18°27'55"	150.00'	40.34'	24.38'
4	19°06'01"	150.00'	50.00'	25.24'
5	21°00'34"	150.00'	55.00'	27.81'
6	31°50'28"	150.00'	83.38'	42.79'
7	32°28'04"	150.00'	85.00'	43.68'
8	18°59'10"	150.00'	49.71'	25.09'
9	02°42'42"	130.00'	6.15'	3.09'
10	24°14'24"	130.00'	55.00'	27.82'
11	22°02'18"	130.00'	50.00'	25.31'
12	15°17'20"	130.00'	38.38'	18.89'
13	17°51'14"	90.00'	28.04'	14.14'
14	25°50'11"	90.00'	40.58'	20.64'
15	80°00'00"	25.00'	39.27'	25.00'
16	90°00'00"	25.00'	39.27'	25.00'
17	90°00'00"	25.00'	39.27'	25.00'
18	11°57'32"	90.00'	18.79'	9.43'
19	04°34'47"	90.00'	7.19'	3.60'
20	96°54'35"	110.00'	188.03'	124.13'
21	44°57'44"	110.00'	86.32'	45.62'
22	44°58'03"	90.00'	70.83'	37.25'
23	201°18'41"	90.00'	31.91'	16.12'
24	19°38'21"	130.00'	44.56'	22.50'
25	13°13'15"	130.00'	30.00'	15.07'
26	79°10'12"	25.00'	34.54'	20.67'



PLAN SHOWING
RESUBDIVISION
PROPERTY OF
AVERY BROOK HOMES LLC
94, 96, 98 AND 100
STODDARDS WHARF ROAD
A.K.A.
CONNECTICUT ROUTE 214
LEDYARD, CONNECTICUT
SCALE: 1"=40'
JULY 2022
REVISED: OCTOBER 31, 2022

SHEET 2 OF 10

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-3000-1 THRU 20-3000-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES. MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ENFORCED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A BOUNDARY SURVEY BASED ON A RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2. TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

TITLE: LAND SURVEYOR OF No. 14208
DATE: JULY 7, 2022



DIETER & GARDNER
LAND SURVEYORS • PLANNERS
1841 CONNECTICUT ROUTE 12
P.O. BOX 335
GALES FERRY, CT. 06355
(860) 464-7455
EMAIL: DIETER.GARDNER@YAHOO.COM

APPROVED BY THE LEDYARD PLANNING AND ZONING COMMISSION AS TO THE COMPLIANCE WITH THE REGULATIONS GOVERNING THE SUBDIVISION OF LAND. ALL MODIFICATIONS SHALL BE COMPLETED BY _____ DATE _____

CHAIRMAN OR SECRETARY _____ DATE _____

ENGINEER AND RESUBDIVISION CONTROL PLAN CERTIFIED BY VOTE OF THE LEDYARD PLANNING AND ZONING COMMISSION ON _____ DATE _____

LOT NUMBERS ASSIGNED BY THE APPLICANT _____

APPLICANT _____ DATE _____

APPROVED _____

NO PERMIT REQUIRED. (NOT WITHIN A REGULATED AREA)

NOT APPLICABLE AT THIS TIME. (WITHIN A REGULATED AREA)

NO REGULATED ACTIVITY PROPOSED AT THIS TIME.

WETLAND OFFICER _____ DATE _____

APPROVED BY THE DIRECTOR OF PUBLIC WORKS ON THE TOWN ENGINEER FOR PUBLIC WAY LAYOUT. _____ DATE _____

PUBLIC WORKS DIRECTOR/TOWN ENGINEER _____ DATE _____

ENGINEER AND RESUBDIVISION CONTROL PLAN CERTIFIED BY VOTE OF THE LEDYARD PLANNING AND ZONING COMMISSION _____

CHAIRMAN OR SECRETARY OF THE LEDYARD PLANNING AND ZONING COMMISSION _____ DATE _____

APPROVED BY THE ZONING REFORMULATION OFFICER OF THE LEDYARD PLANNING COMMISSION _____

ZONING REFORMULATION OFFICER _____ DATE _____

LEGEND

- STONE WALL
- PROPERTY LINE
- STREET LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EDGE OF WETLANDS & FLAG NUMBER
- BUILDING SETBACK LINE
- LIMITS OF DISTURBANCE
- APPROXIMATE DEEP TEST PIT
- APPROXIMATE PERC TEST LOCATION
- UTILITY POLE
- CONCEPTUAL HOME
- CONCEPTUAL PRIMARY SEPTIC
- CONCEPTUAL RESERVE AREA
- CONCEPTUAL WELL
- TOPSOIL STOCKPILE
- HAYBALES/SILT FENCE/WOODCHIPS

I HAVE REVIEWED THE INLAND WETLAND BOUNDARY I DELINEATED AND I AM OF THE OPINION THAT THE WETLAND BOUNDARY IS SHOWN CORRECTLY ON THIS MAP.

Jan Cole

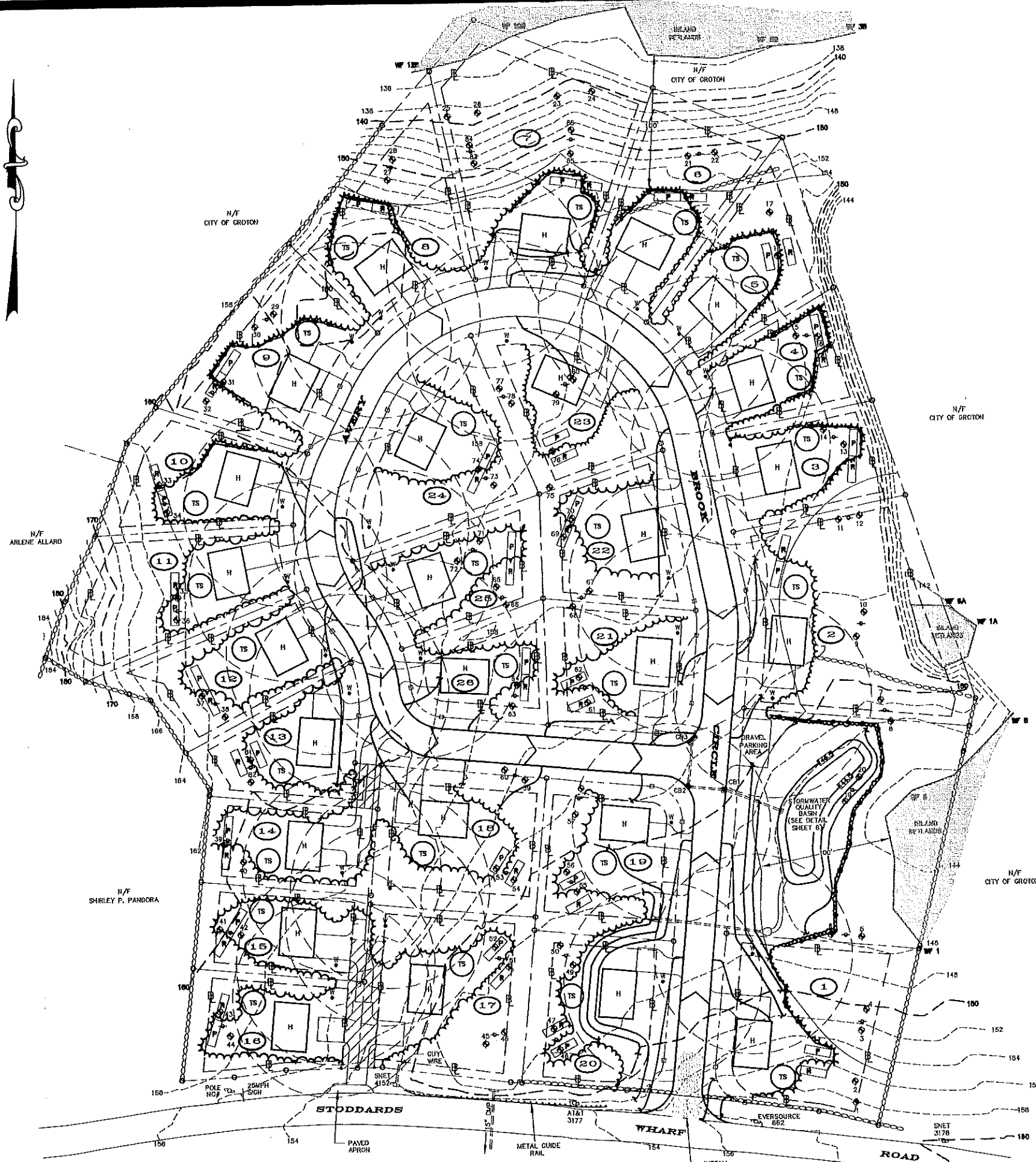
IAN COLE
SOIL SCIENTIST

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NOTE: BOUNDARY LINES OF ADJACENT PROPERTIES ARE SHOWN FOR GENERAL INFORMATION PURPOSES ONLY AND ARE NOT TO BE CONSTRUED AS BEING ACCURATELY LOCATED OR DEPICTED.



NOTE: FOOTING DRAINS NOT REQUIRED OR PROPOSED.

GRAPHIC SCALE



PLAN SHOWING
RESUBDIVISION
PROPERTY OF
AVERY BROOK HOMES LLC
94, 96, 98 AND 100
STODDARDS WHARF ROAD
A.K.A.
CONNECTICUT ROUTE 214
LEDYARD, CONNECTICUT
SCALE: 1"=40'

JULY 2022

REVISED: OCTOBER 31, 2022
REVISED: DECEMBER 6, 2022
REVISED: DECEMBER 13, 2022

SHEET 3 OF 10

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-3000-1 THRU 20-3000-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ENFORCED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A BOUNDARY SURVEY BASED ON A RESURVEY CONTRIBUTING TO HORIZONTAL ACCURACY CLASS "D" AND TOPOGRAPHIC ACCURACY 1-2. TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED THEREON.

TITLE: LAND SURVEYOR CT No. 14206

DATE: JULY 7, 2022

APPROVED BY THE LANDLORD PLANNING AND RECORDS COMMISSION AS TO THE COMPLIANCE WITH THE REGULATIONS GOVERNING THE SUBDIVISION OF LAND. ALL DEPARTMENTS SHALL BE COMPLETED BY DATE

CHIEFMAN OR SECRETARY DATE

ENGINEER AND RECORDS CONTROL PLAN CHECKED BY DATE OF THE LANDLORD PLANNING AND RECORDS COMMISSION DATE

ANY WORKING AMENDED BY THE AMENDMENT DATE

APPROVED, DATE

NO PERMIT NEEDED, (NOT WITHIN A REGULATED AREA)

NOT APPLICABLE AT THIS TIME, (WITHIN A REGULATED AREA, NO REGULATED ACTIVITY PROPOSED AT THIS TIME)

VELOCITIES OFFICE DATE

APPROVED BY THE DIRECTOR OF PUBLIC WORKS ON THE WORKSHEET FOR PUBLIC WAY LAYOUT, DATE

PUBLIC WORKS DIRECTOR/WORKSHEET DATE

ENGINEER AND RECORDS CONTROL PLAN CHECKED BY DATE OF THE LANDLORD PLANNING AND RECORDS COMMISSION DATE

CHIEFMAN OR SECRETARY OF THE LANDLORD PLANNING AND RECORDS COMMISSION DATE

APPROVED BY THE RECORDS MANAGEMENT OFFICE OF THE LANDLORD PLANNING COMMISSION DATE

RECORDS MANAGEMENT OFFICE DATE

WITNESSED AND RECORDED BY WENDY BROWN-ARNOLD RS/REHS AND ALEX WILBOUR LEDGE LIGHT HEALTH DISTRICT ON 5/2/22, 5/5/22 AND 5/23/2022 AND WENDY BROWN-ARNOLD RS/REHS ON JUNE 14, 2022.

TP 1 0-45" FILL-DISTURBED LOAM, ROCKS, BRICK NO MOTTLING NO WATER LEDGE @ 45"	TP 16 0-11" TOPSOIL 11-37" BROWN FINE TO MED. SANDY LOAM 37-90" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 30 0-12" TOPSOIL 12-34" BROWN FINE SANDY LOAM (DEPTH VARIES) 34-98" TAN TO MED. TO FINE SAND W/GRAVEL AND GRAVEL, STRATIFIED NO MOTTLING NO WATER NO LEDGE	TP 44 0-5" TOPSOIL 5-14" BROWN FINE TO MED. SANDY LOAM 14-42" TAN TO GRAY SILT INCONSISTENT AROUND HOLE 42-100" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 58 0-12" TOPSOIL 12-32" LIGHT BROWN FINE TO VERY FINE SANDY LOAM 32-98" TAN TO BROWN MED. TO COARSE SAND WITH GRAVEL, SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 72 0-8" TOPSOIL 8-32" BROWN FINE TO MED. SANDY LOAM 32-91" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 83 0-8" TOPSOIL 8-31" BROWN FINE SANDY LOAM 31-104" TAN-BROWN COARSE SAND WITH GRAVEL AND COBBLES NO MOTTLING NO WATER LEDGE-NONE TO 104"
TP 2 0-16" DISTURBED SOIL & FILL 16-50" LIGHT TAN FINE SAND W/GRAVEL & ROCKS NO MOTTLING NO WATER LEDGE @ 50"	TP 17 0-11" TOPSOIL 11-37" BROWN FINE TO MED. SANDY LOAM 37-89" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 31 0-7" TOPSOIL 7-31" YELLOW TO BROWN FINE TO VERY FINE SANDY LOAM 31-100" TAN FINE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 45 0-13" TOPSOIL 13-23" BROWN FINE TO VERY FINE SANDY LOAM 23-37" GRAY TO TAN VERY FINE SAND W/SILT 37-83" BROWN TO GRAY COARSE SAND W/ GRAVEL AND SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 59 0-11" TOPSOIL 11-23" BROWN FINE TO VERY FINE SANDY LOAM 23-83" BROWN TO TAN COARSE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 73 0-13" TOPSOIL 13-28" BROWN FINE SANDY LOAM 28-37" YELLOW TAN FINE TO VERY FINE SANDY LOAM 37-80" TAN TO BROWN FINE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 84 0-11" TOPSOIL 11-38" BROWN FINE SANDY LOAM 38-92" TAN TO BROWN MED-COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER LEDGE-NONE TO 92"
TP 3 0-10" TOPSOIL 10-28" LIGHT BROWN FINE SANDY LOAM 28-87" LIGHT TAN FINE SAND W/GRAVEL COBBLES, LARGE STONES NO MOTTLING NO WATER NO LEDGE	TP 18 0-9" TOPSOIL 9-29" YELLOW TO BROWN FINE SANDY LOAM 29-103" TAN TO OLIVE MED. TO COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 32 0-8" TOPSOIL 8-34" BROWN FINE SANDY LOAM 34-82" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 46 0-15" TOPSOIL 15-30" GRAY TO TAN VERY FINE SANDY W/SILT 30-51" MOTTLED THROUGHOUT 51-108" BROWN TO TAN COARSE SAND W/ GRAVEL AND SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 60 0-10" TOPSOIL 10-23" BROWN FINE TO VERY FINE SANDY LOAM 23-97" BROWN TO TAN COARSE TO MED. SAND WITH GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 74 0-8" TOPSOIL 8-39" BROWN FINE SANDY LOAM 39-90" TAN TO BROWN FINE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 85 0-12" TOPSOIL 12-33" BROWN FINE SANDY LOAM 33-88" TAN COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER LEDGE-NONE TO 88"
TP 4 0-11" TOPSOIL 11-34" LIGHT BROWN FINE SANDY LOAM 34-90" LIGHT TAN/GRAY FINE SAND W/ GRAVEL, SOME COBBLES MOTTLING @ 84" WATER @ 80" NO LEDGE	TP 19 0-14" TOPSOIL 14-36" BROWN FINE SANDY LOAM 36-84" TAN/GRAY COARSE SAND W/GRAVEL MOTTLING @ 40" WATER @ 43" NO LEDGE	TP 33 0-10" TOPSOIL 10-34" BROWN FINE SANDY LOAM 34-75" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 47 0-10" TOPSOIL 10-22" BROWN FINE TO MED. SANDY LOAM W/SILT 22-41" LIGHT BROWN TO ORANGE SILTY LOAM, TRACE FINE SAND 41-88" BROWN TO GRAY COARSE SAND W/GRAVEL AND SOME COBBLES NO MOTTLING WATER @ 96" NO LEDGE	TP 61 0-10" TOPSOIL 10-28" BROWN VERY FINE SANDY LOAM 28-89" TAN TO BROWN COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 75 0-10" TOPSOIL 10-29" LIGHT BROWN FINE SANDY LOAM 29-96" TAN TO OLIVE/BROWN FINE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 86 0-8" TOPSOIL 8-30" BROWN FINE SANDY LOAM 30-89" TAN COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER LEDGE-NONE TO 89"
TP 5 0-16" TOPSOIL 16-45" LIGHT BROWN SILT LOAM, SOME FINE SAND 45-84" TAN/GRAY FINE TO MED. SAND W/ GRAVEL MOTTLING @ 33" WATER @ 33" NO LEDGE	TP 20 0-17" TOPSOIL 17-31" BROWN FINE SANDY LOAM 31-83" TAN/GRAY COARSE SAND W/GRAVEL AND FEW COBBLES MOTTLING @ 43" WATER @ 46" NO LEDGE	TP 34 0-12" TOPSOIL 12-44" YELLOW TO BROWN FINE TO VERY FINE SANDY LOAM 44-89" TAN TO BROWN MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 48 0-10" TOPSOIL 10-28" BROWN FINE TO VERY FINE SANDY LOAM TO SILT 28-108" BROWN TO GRAY MED. TO COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER-WET AT BOTTOM NO LEDGE	TP 62 0-8" TOPSOIL 8-24" LIGHT BROWN VERY FINE SANDY LOAM 24-98" BROWN TO TAN COARSE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 76 0-10" TOPSOIL 10-34" LIGHT BROWN FINE SANDY LOAM 34-86" TAN TO OLIVE/BROWN FINE TO MED. SAND W/GRAVEL AND COBBLES STRATIFIED NO MOTTLING NO WATER NO LEDGE	TP 87 0-8" TOPSOIL 8-30" BROWN FINE SANDY LOAM 30-89" TAN COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER LEDGE-NONE TO 89"
TP 6 0-9" TOPSOIL 9-37" BROWN FINE TO VERY FINE SANDY LOAM 37-84" TAN/GRAY FINE TO MED. SAND W/ GRAVEL, FEW COBBLES MOTTLING @ 46" WATER @ 50" NO LEDGE	TP 21 0-17" SANDY FILL & DISTURBED 17-24" TOPSOIL 24-33" BROWN MED. SANDY LOAM 33-88" TAN/BROWN FINE MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 35 0-9" TOPSOIL 9-21" BROWN FINE SANDY LOAM 21-47" TAN TO BROWN MED. SAND W/GRAVEL, FEW COBBLES 47-110" TAN TO BROWN, MED. SAND W/GRAVEL, FEW COBBLES NO MOTTLING NO WATER NO LEDGE	TP 49 0-10" TOPSOIL 10-24" BROWN FINE TO VERY FINE SANDY LOAM 24-52" LIGHT YELLOW TO BROWN VERY FINE SAND W/SILT 52-98" BROWN TO GRAY COARSE SAND WITH GRAVEL, FEW COBBLES POSSIBLE MOTTLING @ 52" WATER @ 90" NO LEDGE	TP 63 0-8" TOPSOIL 8-28" BROWN FINE TO MED. SANDY LOAM 28-91" BROWN TO TAN COARSE TO MED. SAND, W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 77 0-11" TOPSOIL 11-36" BROWN FINE TO MED. SANDY LOAM 36-101" BROWN TO TAN MED. TO FINE SAND WITH GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 88 0-8" TOPSOIL 8-30" BROWN FINE SANDY LOAM 30-89" TAN COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER LEDGE-NONE TO 89"
TP 7 0-7" TOPSOIL 7-30" BROWN FINE TO MED. SANDY LOAM 30-77" TAN COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 22 0-19" FILL 19-32" TOPSOIL 32-53" BROWN MED. SANDY LOAM 53-103" TAN TO BROWN MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 36 0-8" TOPSOIL 8-34" BROWN FINE SANDY LOAM 34-94" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 50 0-10" TOPSOIL 10-24" BROWN FINE TO VERY FINE SANDY LOAM 24-41" LIGHT YELLOW TO TAN VERY FINE SAND, W/SILT 41-111" TAN TO BROWN COARSE SAND W/GRAVEL AND SOME COBBLES NO MOTTLING WATER @ 105" NO LEDGE	TP 64 0-10" TOPSOIL 10-31" BROWN FINE SANDY LOAM 31-91" BROWN TO TAN COARSE TO MED. SAND W/SOME SILT GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 78 0-12" TOPSOIL 12-36" BROWN FINE TO MED. SANDY LOAM 36-106" BROWN TO TAN MED. FINE SAND W/ SOME GRAVEL NO MOTTLING NO WATER NO LEDGE	TP 89 0-13" TOPSOIL 13-30" LIGHT BROWN FINE TO VERY FINE SANDY LOAM 30-100" TAN TO BROWN COARSE SAND WITH GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE
TP 8 0-10" TOPSOIL 10-34" LIGHT BROWN FINE SANDY LOAM 34-64" ORANGE/TAN COARSE SAND W/GRAVEL 64-95" TAN/GRAY FINE TO MED. SAND W/GRAVEL MOTTLING @ 73" WATER @ 83" NO LEDGE	TP 23 0-17" SANDY FILL AND DISTURBED 17-24" TOPSOIL 24-33" BROWN MED. SANDY LOAM 33-88" TAN TO BROWN MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 37 0-9" TOPSOIL 9-39" LIGHT BROWN TO TAN, FINE TO VERY FINE, SANDY LOAM 39-100" LIGHT TAN FINE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 51 0-10" TOPSOIL 10-20" LIGHT BROWN FINE TO VERY FINE SANDY LOAM 20-42" LIGHT YELLOW TO BROWN VERY FINE SAND W/TRACE SILT 42-101" BROWN TO TAN COARSE SAND WITH GRAVEL, SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 65 0-13" TOPSOIL 13-30" LIGHT BROWN FINE TO VERY FINE SANDY LOAM 30-100" TAN TO BROWN COARSE SAND WITH GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 79 0-11" TOPSOIL 11-38" BROWN FINE TO MED. SANDY LOAM 38-80" TAN TO GRAY MED. TO FINE SAND WITH GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 90 0-10" TOPSOIL 10-28" BROWN FINE TO MED. SANDY LOAM 28-80" TAN TO GRAY MED. TO COARSE SAND W/SOME GRAVEL NO MOTTLING NO WATER NO LEDGE
TP 9 0-15" TOPSOIL 15-31" BROWN FINE SANDY LOAM 31-88" TAN MED. TO COARSE SAND AND GRAVEL, FEW COBBLES NO MOTTLING NO WATER NO LEDGE	TP 24 0-17" TOPSOIL 17-31" BROWN FINE SANDY LOAM 31-83" TAN/GRAY COARSE SAND W/GRAVEL AND FEW COBBLES MOTTLING @ 60" WATER 84" UPHILL, 32" DOWNHILL NO LEDGE	TP 38 0-8" TOPSOIL 8-34" BROWN FINE SANDY LOAM 34-90" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 52 0-13" TOPSOIL 13-38" BROWN FINE TO VERY FINE SANDY LOAM 38-80" BROWN TO TAN COARSE TO MED. SAND WITH SOME GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 66 0-10" TOPSOIL 10-28" BROWN FINE SANDY LOAM 28-80" TAN TO GRAY MED. TO COARSE SAND W/SOME GRAVEL NO MOTTLING NO WATER NO LEDGE	TP 80 0-10" TOPSOIL 10-28" BROWN FINE TO MED. SANDY LOAM 28-80" TAN TO GRAY MED. TO COARSE SAND W/SOME GRAVEL NO MOTTLING NO WATER NO LEDGE	TP 91 0-14" TOPSOIL 14-38" BROWN FINE TO MED. SANDY LOAM 38-96" TAN TO GRAY MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE
TP 10 0-11" TOPSOIL 11-23" BROWN FINE SANDY LOAM 23-84" TAN TO GRAY MED. TO COARSE SAND W/ GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 25 0-10" TOPSOIL 10-29" BROWN FINE TO MED. SANDY LOAM, SOME SILT 29-75" BROWN TO GRAY MED. TO COARSE SAND W/GRAVEL AND COBBLES MOTTLING @ 33" WATER 33", 30" DOWNHILL NO LEDGE	TP 39 0-5" TOPSOIL 5-41" LIGHT BROWN FINE SANDY LOAM 41-83" TAN TO MED. SAND W/ GRAVEL AND COBBLES 83-104" OLIVE TO BROWN FINE SAND, SOME GRAVEL NO MOTTLING NO WATER NO LEDGE	TP 53 0-13" TOPSOIL 13-32" BROWN FINE TO MED. SANDY LOAM 32-92" BROWN TO TAN COARSE TO MED. SAND W/GRAVEL AND MANY COBBLES NO MOTTLING NO WATER NO LEDGE	TP 67 0-14" TOPSOIL 14-25" LIGHT BROWN FINE TO VERY FINE SANDY LOAM 25-100" TAN TO BROWN MED. TO COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 81 0-13" TOPSOIL 13-40" BROWN FINE TO MED. SANDY LOAM 40-96" TAN TO GRAY MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 92 0-9" SAND AND GRAVEL FILL 9-10" TOPSOIL 10-28" BROWN FINE TO MED. SANDY LOAM 28-80" TAN TO GRAY MED. TO COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE
TP 11 0-11" TOPSOIL 11-34" BROWN FINE TO MED. SANDY LOAM 34-98" TAN TO GRAY MED. TO COARSE SAND W/ GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 26 0-7" TOPSOIL 7-38" YELLOW TO BROWN FINE TO MED. SILTY LOAM W/TRACE FINE SAND 38-82" BROWN TO GRAY FINE TO MED. SAND W/GRAVEL AND COBBLES, SOME SILT MOTTLING @ 26" WATER @ 26" NO LEDGE	TP 40 0-8" TOPSOIL 8-32" BROWN FINE TO MED. SANDY LOAM 32-58" TAN TO GRAY SILT FINE SAND, PATCHY ORANGE REDOX INCONSISTENT AROUND HOLE 58-89" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 54 0-11" TOPSOIL 11-32" BROWN FINE TO VERY FINE SANDY LOAM 32-95" BROWN TO TAN COARSE TO MED. SAND W/GRAVEL AND SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 68 0-11" TOPSOIL 11-28" BROWN FINE TO MED. SANDY LOAM 28-80" TAN TO GRAY MED. TO COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 82 0-9" SAND AND GRAVEL FILL 9-10" TOPSOIL 10-28" BROWN FINE TO MED. SANDY LOAM 28-80" TAN TO GRAY MED. TO COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 93 0-14" TOPSOIL 14-38" BROWN FINE TO MED. SANDY LOAM 38-96" TAN TO GRAY MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE
TP 12 0-12" TOPSOIL 12-29" BROWN FINE TO MED. SANDY LOAM 29-95" BROWN TO TAN MED. TO COARSE SAND W/ GRAVEL, SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 27 0-11" TOPSOIL 11-24" BROWN FINE TO MED. SANDY LOAM 24-39" TAN FINE TO MED. SAND 39-87" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 41 0-9" TOPSOIL 9-29" BROWN FINE TO MED. SANDY LOAM 29-52" TAN TO GRAY SILT FINE SAND, 52-101" TAN TO GRAY FINE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 55 0-14" TOPSOIL 14-22" BROWN FINE TO VERY FINE SANDY LOAM 22-37" LIGHT BROWN FINE TO VERY FINE SAND W/SILT 37-110" TAN MED. SAND W/GRAVEL, FEW COBBLES NO MOTTLING NO WATER NO LEDGE	TP 69 0-12" TOPSOIL 12-36" YELLOW TAN FINE TO VERY FINE SANDY LOAM 36-83" TAN TO BROWN MED. TO FINE SAND W/GRAVEL, SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 83 0-12" TOPSOIL 12-33" BROWN FINE TO MED. SANDY LOAM 33-85" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 94 0-14" TOPSOIL 14-38" BROWN FINE TO MED. SANDY LOAM 38-96" TAN TO GRAY MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE
TP 13 0-13" TOPSOIL 13-25" BROWN FINE TO MED. SANDY LOAM 25-91" TAN TO BROWN MED. TO COARSE SAND AND GRAVEL, SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 28 0-12" TOPSOIL 12-32" LIGHT BROWN FINE TO MED. SANDY LOAM 32-88" LIGHT TAN FINE TO MED. SAND W/ GRAVEL AND COBBLES STRATIFIED NO MOTTLING NO WATER NO LEDGE	TP 42 0-5" TOPSOIL 5-14" LIGHT BROWN FINE TO VERY FINE SANDY LOAM 14-50" ORANGE TO GRAY SILT, STAINED 50-105" TAN TO BROWN FINE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 56 0-15" TOPSOIL 15-43" LIGHT BROWN SILT LOAM, SOME FINE SAND 43-110" TAN MED. SAND SOME GRAVEL FEW COBBLES NO MOTTLING NO WATER NO LEDGE	TP 70 0-14" TOPSOIL 14-38" BROWN FINE TO MED. SANDY LOAM 38-96" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 84 0-12" TOPSOIL 12-33" BROWN FINE TO MED. SANDY LOAM 33-85" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 95 0-14" TOPSOIL 14-38" BROWN FINE TO MED. SANDY LOAM 38-96" TAN TO GRAY MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE
TP 14 0-8" TOPSOIL 8-28" BROWN FINE TO MED. SANDY LOAM 28-91" TAN MED. TO FINE SAND/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 29 0-12" TOPSOIL 12-32" BROWN FINE TO MED. SANDY LOAM 32-59" TAN TO GRAY MED. TO FINE SAND W/ GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 43 0-8" TOPSOIL 8-33" BROWN FINE SANDY LOAM 33-45" TAN TO GRAY SILT INCONSISTENT 45-83" TAN TO MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 57 0-8" TOPSOIL 8-27" LIGHT BROWN FINE TO VERY FINE SANDY LOAM 27-104" TAN TO GRAY MED. TO COARSE SAND W/GRAVEL, SOME COBBLES NO MOTTLING NO WATER NO LEDGE	TP 71 0-8" TOPSOIL 8-36" BROWN FINE TO MED. SANDY LOAM 36-98" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 85 0-12" TOPSOIL 12-33" BROWN FINE TO MED. SANDY LOAM 33-85" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 96 0-14" TOPSOIL 14-38" BROWN FINE TO MED. SANDY LOAM 38-96" TAN TO GRAY MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE
TP 15 0-10" TOPSOIL 10-39" BROWN FINE SANDY LOAM 39-98" TAN TO OLIVE MED. TO COARSE SAND/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 30 0-12" TOPSOIL 12-34" BROWN FINE SANDY LOAM (DEPTH VARIES) 34-98" TAN TO MED. TO FINE SAND W/GRAVEL AND GRAVEL, STRATIFIED NO MOTTLING NO WATER NO LEDGE	TP 44 0-5" TOPSOIL 5-14" BROWN FINE TO MED. SANDY LOAM 14-42" TAN TO GRAY SILT INCONSISTENT AROUND HOLE 42-100" TAN TO GRAY MED. TO FINE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 48 0-10" TOPSOIL 10-28" BROWN FINE TO VERY FINE SANDY LOAM TO SILT 28-108" BROWN TO GRAY MED. TO COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER-WET AT BOTTOM NO LEDGE	TP 62 0-8" TOPSOIL 8-24" LIGHT BROWN VERY FINE SANDY LOAM 24-98" BROWN TO TAN COARSE TO MED. SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER NO LEDGE	TP 76 0-10" TOPSOIL 10-34" LIGHT BROWN FINE SANDY LOAM 34-86" TAN TO OLIVE/BROWN FINE TO MED. SAND W/GRAVEL AND COBBLES STRATIFIED NO MOTTLING NO WATER NO LEDGE	TP 87 0-8" TOPSOIL 8-30" BROWN FINE SANDY LOAM 30-89" TAN COARSE SAND W/GRAVEL AND COBBLES NO MOTTLING NO WATER LEDGE-NONE TO 89"

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A.K.A.
CONNECTICUT ROUTE 214
LEDYARD, CONNECTICUT
JULY 2022

SANITARY DESIGN CRITERIA

- A. ALL PRIMARY AND SEPTIC SYSTEM DESIGNS ARE LAYED OUT FOR THREE-BEDROOM HOMES.
NO TUBS OVER 100 GALLONS IN SIZE OR GARBAGE DISPOSAL INTO SEPTIC SYSTEM PLANNED.
- B. THREE BEDROOM HOMES AT A PERC RATE OF 10.0 MIN/INCH OR LESS REQUIRES 408 S.F. OF EFFECTIVE LEACHING AREA.
- C. GST 8236 LEACHING SYSTEM SELECTED FOR LEACHING SYSTEM DESIGN.
MINIMUM REQUIRED AREA IS 408 S.F. / 26.2 S.F./L.F. = 15.6' UNLESS MLSS GOVERNS.
- HF = HYDRAULIC FACTOR BASED ON GRADIENT AND DEPTH TO RESTRICTION
FF = FLOW FACTOR, 1.5 FOR THREE BEDROOM HOME DESIGN
PF = PERC FACTOR, 1.0 PERCOLATION RATE UP TO 10.0 MIN/INCH

MLSS TABLE								
LOT NUMBER	DESIGN PITS	GRADIENT	RESTRICTION	HF	FF	PF	MLSS	SYSTEM
1	1, 2, 3 & 4	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
2	9, 10, 11 & 12	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
3	13 & 14	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
4	15 & 16	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
5	17 & 18	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
6	21 & 22	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
7	25 & 26	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
8	27 & 28	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
9	29, 30, 31 & 32	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
10	33 & 34	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
11	35 & 36	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
12	37 & 38	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
13	39 & 40	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
14	41 & 42	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
15	43 & 44	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
16	45 & 46	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
17	47 & 48	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
18	49 & 50	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
19	51 & 52	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
20	53 & 54	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
21	55 & 56	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
22	57 & 58	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
23	59 & 60	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
24	61 & 62	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
25	63 & 64	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
26	65, 66, 67 & 72	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236
27	68 & 69	MLSS	NOT	APPLICABLE	1.5	1.0		20 L.F. GST 8236

LOT 1		WATER QUALITY BASIN		WATER QUALITY BASIN		LOT 2		LOT 2		LOT 2		LOT 3		LOT 4		LOT 5	
TIME	READING	TIME	READING	TIME	READING	TIME	READING	TIME	READING	TIME	READING	TIME	READING	TIME	READING	TIME	READING
8:59	2"	9:01	4"	9:01	4"	9:01	4"	9:01	4"	9:01	4"	9:01	4"	9:01	4"	9:01	4"
9:04	5 3/4"	9:06	10"	9:06	10"	9:06	10"	9:06	10"	9:06	10"	9:06	10"	9:06	10"	9:06	10"
9:09	9"	9:11	13 3/4"	9:11	13 3/4"	9:11	13 3/4"	9:11	13 3/4"	9:11	13 3/4"	9:11	13 3/4"	9:11	13 3/4"	9:11	13 3/4"
9:14	11"	9:16	17"	9:16	17"	9:16	17"	9:16	17"	9:16	17"	9:16	17"	9:16	17"	9:16	17"
9:19	12 1/2"	9:21	18"	9:21	18"	9:21	18"	9:21	18"	9:21	18"	9:21	18"	9:21	18"	9:21	18"
9:24	14"	9:26	20"	9:26	20"	9:26	20"	9:26	20"	9:26	20"	9:26	20"	9:26	20"	9:26	20"
9:29	15 1/2"	9:31	21"	9:31	21"	9:31	21"	9:31	21"	9:31	21"	9:31	21"	9:31	21"	9:31	21"
9:34	17"	9:36	22"	9:36	22"	9:36	22"	9:36	22"	9:36	22"	9:36	22"	9:36	22"	9:36	22"
9:39	18 1/4"	9:41	23"	9:41	23"	9:41	23"	9:41	23"	9:41	23"	9:41	23"	9:41	23"	9:41	23"
9:44	19 1/4"	9:46	24"	9:46	24"	9:46	24"	9:46	24"	9:46	24"	9:46	24"	9:46	24"	9:46	24"
9:49	20 1/4"	9:51	25"	9:51	25"	9:51	25"	9:51	25"	9:51	25"	9:51	25"	9:51	25"	9:51	25"
PERC RATE: 1 1/5 MINS.		PERC RATE: 1 1/5 MINS.		PERC RATE: 1 1/5 MINS.		PERC RATE: 1 1/5 MINS.		PERC RATE: 1 1/5 MINS.		PERC RATE: 1 1/5 MINS.		PERC RATE: 1 1/5 MINS.		PERC RATE: 1 1/5 MINS.		PERC RATE: 1 1/5 MINS.	

APPROVED BY THE LEYARD PLANNING AND ZONING COMMISSION AS TO THE COMPLIANCE WITH THE REGULATIONS GOVERNING THE SUBDIVISION OF LAND. ALL REVISIONS SHALL BE COMPLETED BY _____ DATE _____

CHAIRMAN OR SECRETARY _____ DATE _____

RECORD AND RECORD CONTROL PLAN COUNTERED BY VOTE OF THE LEYARD PLANNING AND ZONING COMMISSION ON _____ DATE _____

LOT NUMBER (NUMBER) BY THE APPLICANT _____

APPLICANT _____ DATE _____

WFO APPLICATION _____

APPROVED _____

TO PROXY REPRESENTATIVE (NOT WITHIN A REGULATED AREA)

NOT APPLICABLE AT THIS TIME (WITHIN A REGULATED AREA)

NOT APPLICABLE AT THIS TIME (WITHIN A REGULATED AREA)

RECORD OFFICE _____ DATE _____

APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR THE TOWN ENGINEER FOR PUBLIC WAY LAYOUT.

PUBLIC WORKS ENGINEER/TOWN ENGINEER _____ DATE _____

RECORD AND RECORD CONTROL PLAN COUNTERED BY VOTE OF THE LEYARD PLANNING AND ZONING COMMISSION

CHAIRMAN OR SECRETARY OF THE LEYARD PLANNING AND ZONING COMMISSION _____ DATE _____

APPROVED BY THE RECORDS DEPARTMENT OFFICE OF THE LEYARD PLANNING COMMISSION

RECORDS DEPARTMENT OFFICE _____ DATE _____

APPROVED BY THE LEDYARD PLANNING AND ZONING COMMISSION AS TO THE COMPLIANCE WITH THE REGULATIONS GOVERNING THE SUBDIVISION OF LAND. ALL IMPROVEMENTS SHALL BE COMPLETED BY _____ DATE _____

CHAIRMAN OR SECRETARY _____ DATE _____

ENGINEER AND RECORDS CONTROL PLAN CERTIFIED BY TITLE OF _____ DATE _____

LOT NUMBERS ASSIGNED BY THE ENGINEER _____

APPROVED, _____ DATE _____

NO FURTHER REVISIONS (NOT WITHIN A REGULATED AREA)

NOT APPLICABLE AT THIS TIME (WITHIN A REGULATED AREA)

NO REGULATED ACTIVITY PERFORMED AT THIS TIME

LEDYARD OFFICER _____ DATE _____

APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR THE TOWN ENGINEER FOR PUBLIC WAY LAYOUT. _____ DATE _____

PUBLIC WORKS DIRECTOR/TOWN ENGINEER _____ DATE _____

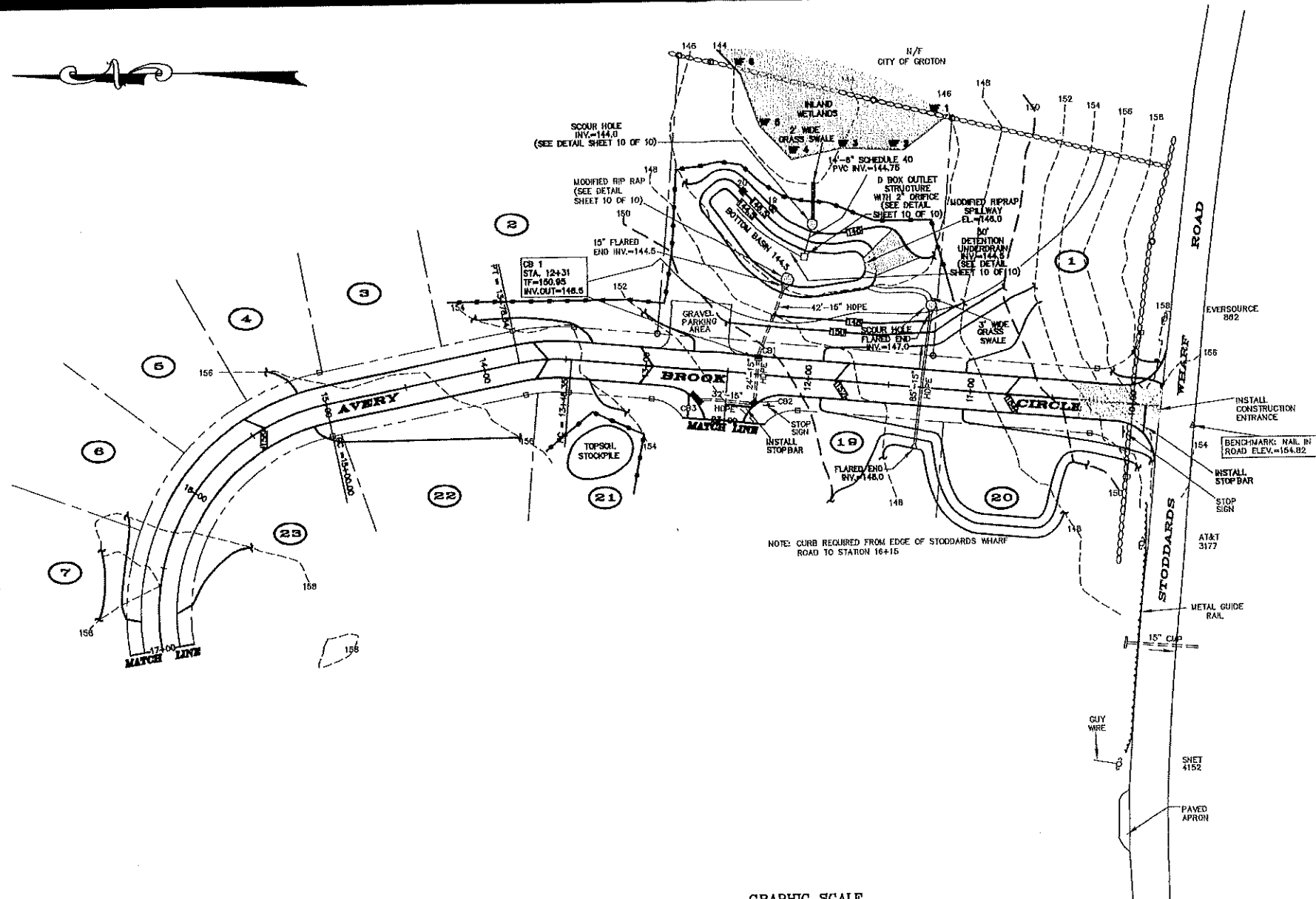
ENGINEER AND RECORDS CONTROL PLAN CERTIFIED BY TITLE OF _____ DATE _____

CHAIRMAN OR SECRETARY OF THE LEDYARD PLANNING AND ZONING COMMISSION _____ DATE _____

APPROVED BY THE RECORDS ENFORCEMENT OFFICER OF THE LEDYARD PLANNING COMMISSION _____ DATE _____

RECORDS ENFORCEMENT OFFICER _____ DATE _____

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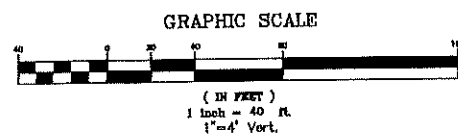
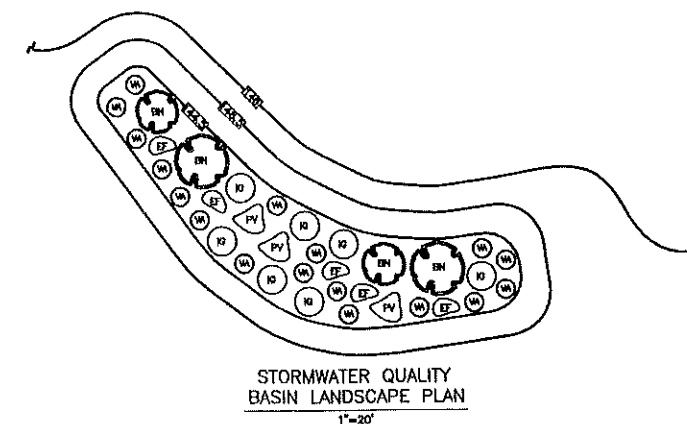


DEEP TEST PIT DATA

TP 18	TP 20
0-14" TOPSOIL	0-12" TOPSOIL
14-36" BROWN FINE SANDY LOAM W/SILT	17-31" BROWN FINE SANDY LOAM W/SILT
36-84" TAN/GRAY COARSE SAND W/GRAVEL	31-83" TAN/GRAY COARSE SAND W/GRAVEL AND FEW CORBLES
NOTHING @ 40"	NOTHING @ 43"
WATER @ 43"	WATER @ 46"
NO LEDGE	NO LEDGE

LANDSCAPE SCHEDULE

TYPE	SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	METHOD	SIZE	REMARKS
PERENNIALS	EF	CLUSTER	EUPATORIUM FISTULOSUM	JOE PYE WEED	CONTAINER	1'-2' HEIGHT	UNIFORM WELL DEVELOPED PLANT 2' ON CENTER
GRASSES	PV	3	PANICUM VIRGATUM	SWITCH GRASS	CONTAINER	2'-3' HEIGHT	UNIFORM WELL DEVELOPED PLANT 2' ON CENTER
SHRUBS	R	7	ILEX GLABRA	HONEYSUCKLE	BAR	3'-4' HEIGHT	AS SHOWN
	VA	17	VACCINIUM ANGSTROFOLIUM	LOWBUSH BLUEBERRY	CONTAINER	12"-18" HT	AS SHOWN
TREES	BN	4	BETULA NIGRA	RIVER BIRCH	BAR	2 1/2"-3" CAL	MULTI-STEMMED AS SHOWN

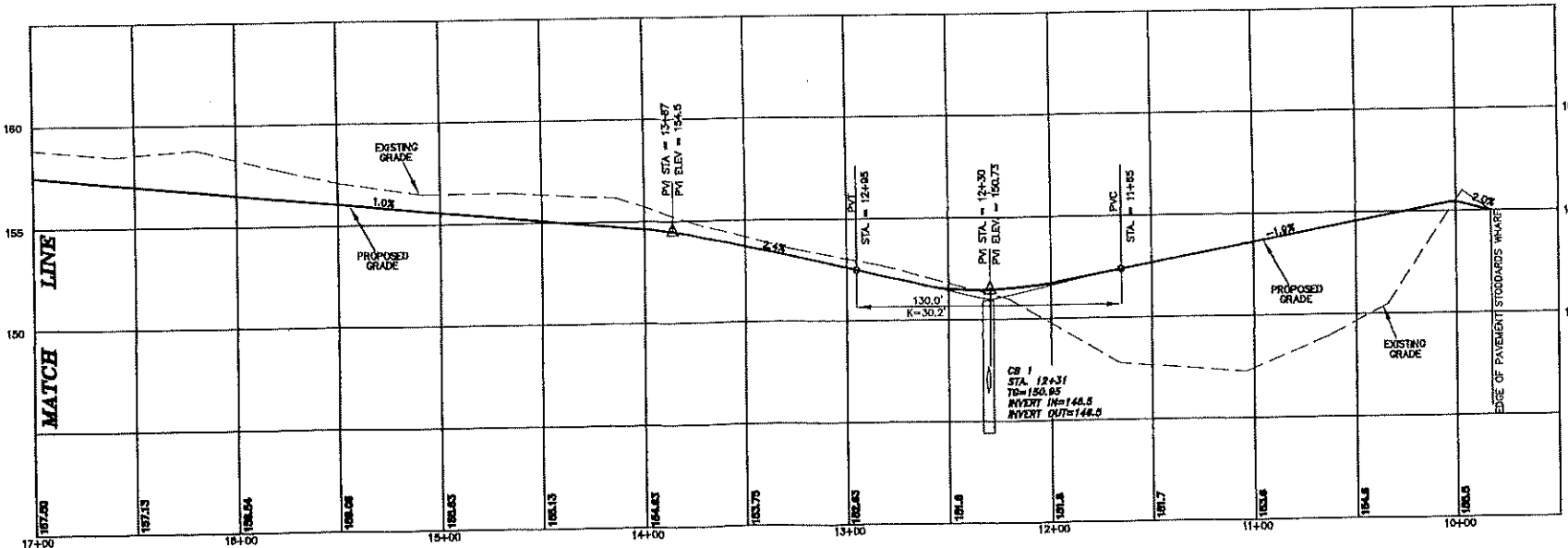


- LEGEND**
- STONE WALL
 - PROPERTY LINE
 - STREET LINE
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - UTILITY POLE
 - ① LOT NUMBER
 - PROPOSED CATCH BASIN
 - W/ 1' EDGE OF WETLANDS & FLAG NUMBER
 - HAYBALES/SILT FENCE/WOODCHIPS
 - ◆ APPROXIMATE DEEP TEST PIT

I HAVE REVIEWED THE INLAND WETLAND BOUNDARY I DELINEATED AND I AM OF THE OPINION THAT THE WETLAND BOUNDARY IS SHOWN CORRECTLY ON THIS MAP.

Jan Cole
IAN COLE
SOIL SCIENTIST

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PLAN / PROFILE
SHOWING
PROPERTY OF
AVERY BROOK HOMES LLC
STODDARDS WHARF ROAD
LEDYARD, CONNECTICUT
SCALE: 1"=40' HORIZ.
1"=4' VERT.

JULY 2022
REVISED: OCTOBER 31, 2022
REVISED: DECEMBER 5, 2022
REVISED: DECEMBER 13, 2022



APPROVED BY THE LEYARD PLANNING AND SURVEY COMMISSION AS TO THE COMPLIANCE WITH THE REGULATIONS GOVERNING THE SURVEYING OF LAND. ALL MEASUREMENTS SHALL BE COMPLETED BY _____ DATE _____

CHARTMAN OR SECRETARY _____ DATE _____

ENGINEER AND SURVEYOR CERTIFY PLAN CERTIFIED BY VOTE OF THE LEYARD PLANNING AND SURVEY COMMISSION ON _____ DATE _____

LOT NUMBER ASSIGNED BY THE ASSessor _____

APPROVED _____ DATE _____

APPROVED _____ DATE _____

NO FURTHER SURVEYING (NOT YET A REGULATED AREA)

NOT APPLICABLE AT THIS TIME (WITHIN A REGULATED AREA: NO REGULATED ACTIVITY PERMITTED AT THIS TIME)

REPLACEMENT OFFICER _____ DATE _____

APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR THE TOWN ENGINEER FOR PUBLIC WAY LAYOUT. _____ DATE _____

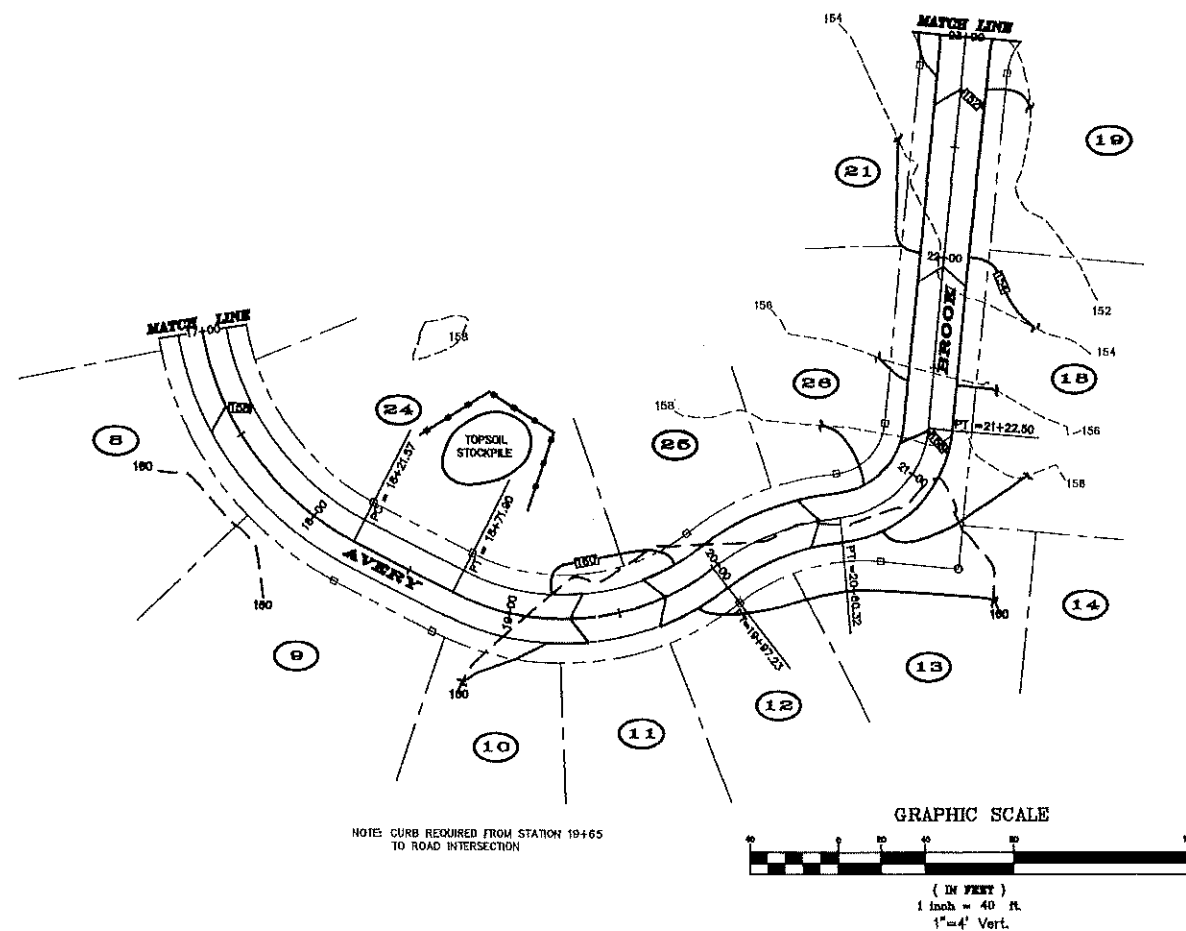
PUBLIC WORKS DIRECTOR/TOWN ENGINEER _____ DATE _____

ENGINEER AND SURVEYOR CERTIFY PLAN CERTIFIED BY VOTE OF THE LEYARD PLANNING AND SURVEY COMMISSION _____ DATE _____

CHARTMAN OR SECRETARY OF THE LEYARD PLANNING AND SURVEY COMMISSION _____ DATE _____

APPROVED BY THE SURVEY ENFORCEMENT OFFICER OF THE LEYARD PLANNING COMMISSION _____ DATE _____

SURVEY ENFORCEMENT OFFICER _____ DATE _____



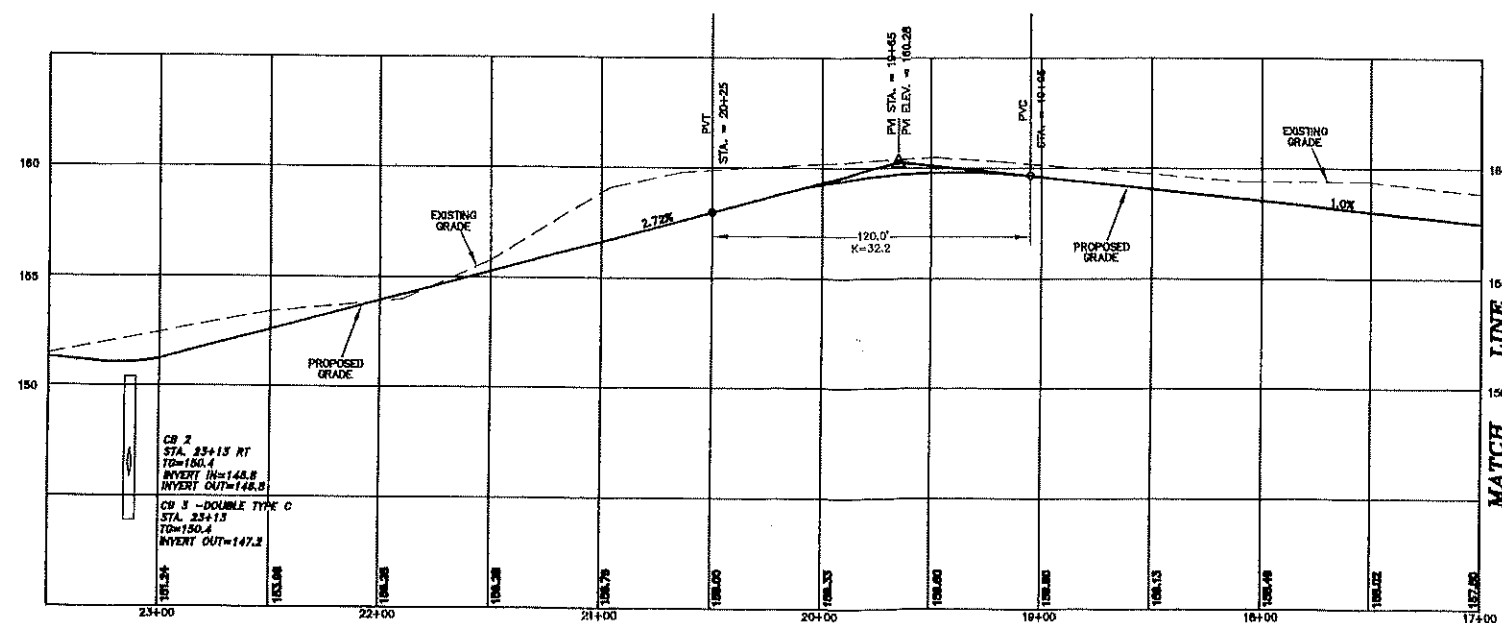
LEGEND

- STONE WALL
- PROPERTY LINE
- STREET LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- UTILITY POLE
- LOT NUMBER
- PROPOSED CATCH BASIN
- EDGE OF WETLANDS & FLAG NUMBER
- HAYBALES/SILT FENCE/WOODCHIPS

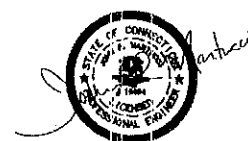


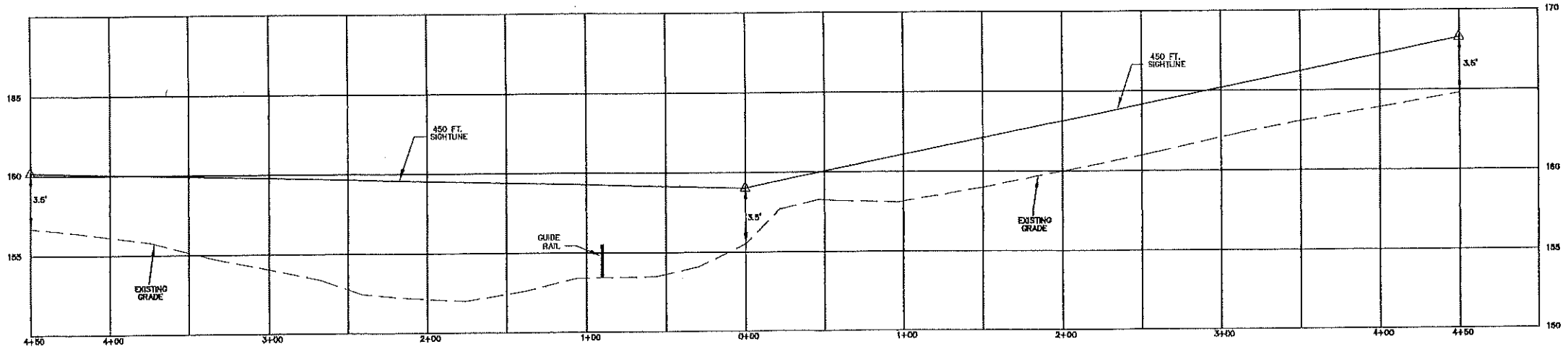
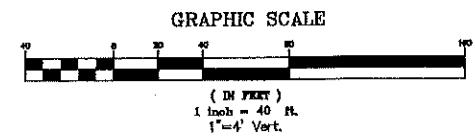
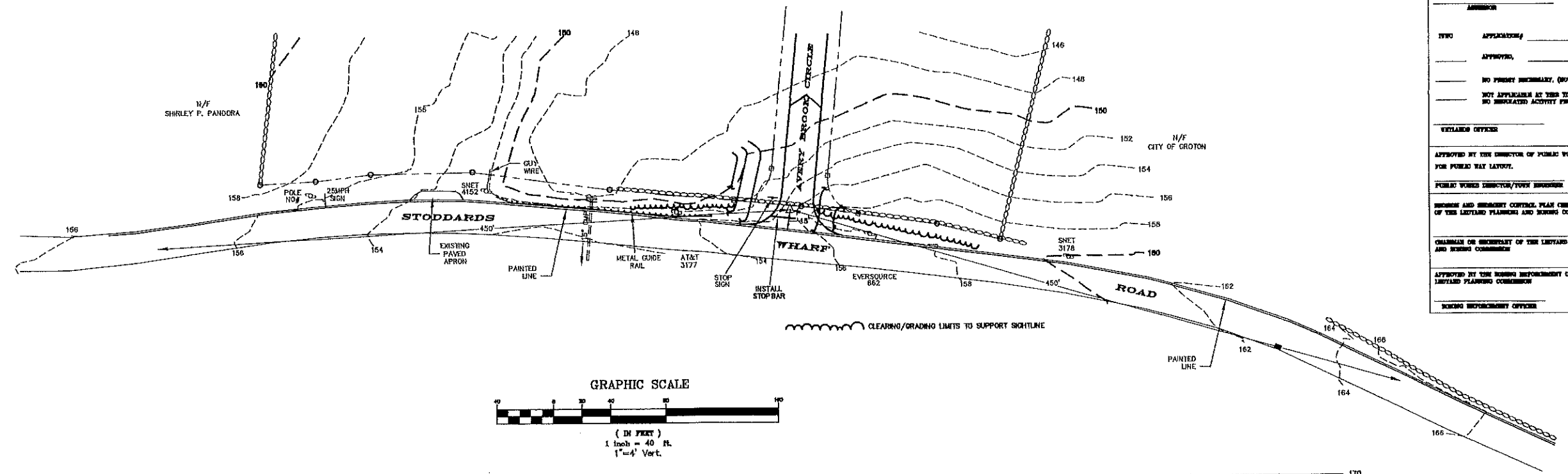
DIETER & GARDNER
LAND SURVEYORS & PLANNERS
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(860) 484-7485
EMAIL: DIETER.GARDNER@YAHOO.COM

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PLAN / PROFILE
SHOWING
PROPERTY OF
AVERY BROOK HOMES LLC
STODDARDS WHARF ROAD
LEDYARD, CONNECTICUT
SCALE: 1"=40' HORIZ.
1"=4' VERT.
JULY 2022
REVISED: OCTOBER 31, 2022
REVISED: DECEMBER 13, 2022





LEGEND

-----	STONE WALL
-----	PROPERTY LINE
-----	STREET LINE
-----	EXISTING CONTOUR
-----	PROPOSED CONTOUR
-----	UTILITY POLE

SIGHTLINE
DEMONSTRATION PLAN
PROPERTY OF
AVERY BROOK HOMES LLC
STODDARDS WHARF ROAD
LEDYARD, CONNECTICUT
SCALE: 1"=40' HORIZ.
1"=4' VERT.
JULY 2022
REVISED: OCTOBER 31, 2022

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THIS PLAN AND REPRODUCTIONS, ADDITIONS OR REMOVALS OF
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JOB#22-007.DWG FEM#327

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EROSION & SEDIMENT CONTROL PLAN

NARRATIVE

PURPOSE AND DESCRIPTION OF PROJECT

THE PURPOSE OF THIS PROJECT IS TO SUBDIVIDE 9.21 ACRES OF LAND TO CREATE 28 RESIDENTIAL BUILDING LOTS. EACH LOT WILL BE SERVED BY ON SITE WELL AND SEPTIC SYSTEM. APPROXIMATELY 1330 LINEAR FEET OF ROAD WILL BE CONSTRUCTED. THE PAVEMENT WIDTH IS 22 FEET. THE TOTAL AREA OF NEW PAVEMENT ASSOCIATED WITH THE ROAD CONSTRUCTION WILL BE 30,400+ SQUARE FEET. ROAD DRAINAGE HAS BEEN DESIGNED BY A PROFESSIONAL ENGINEER, AND INCLUDES IN PLACES CURBED PAVEMENT AND CATCH BASINS WITH 2 FOOT SAND DEPTHS. THE UPLANDS ARE GENTLY SLOPING AND MOSTLY OLD PASTURE. THE UPLAND SOILS ON THE PROJECT SITE INCLUDE WELL DRAINED CANTON HICKORY AND AGAWAM SOILS.

IT IS ANTICIPATED THAT ONCE WORK ON THE PUBLIC IMPROVEMENTS BEGINS, IT WILL CONTINUE UNTIL THE PROJECT IS COMPLETED. IT IS ANTICIPATED THAT THE ROAD CONSTRUCTION WILL BE COMPLETED WITHIN ONE YEAR OF COMMENCEMENT.

PETER GARDNER 860-484-7455 (OR OWNER AT TIME OF CONSTRUCTION) SHALL BE RESPONSIBLE FOR OVERSEENING THE INSTALLATION AND PROPER MAINTENANCE OF ANY EROSION & SEDIMENT CONTROL MEASURES EMPLOYED IN IMPLEMENTING THIS PLAN.

TOTAL AREA OF THE PROJECT SITE AND THE TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED BY ROAD AND DRAINAGE CONSTRUCTION ACTIVITIES

THE TOTAL PROJECT AREA IS 9.21 ACRES OF WHICH 0.6+ ACRES WILL BE DISTURBED TO FACILITATE THE CONSTRUCTION OF THE ROAD AND DRAINAGE. ESTIMATE OF TOTAL AREA TO BE DISTURBED 3.0+ ACRES FOR HOME/DRIVE AND SEPTIC CONSTRUCTION.

PLANNED START AND COMPLETION DATES FOR THE PROJECT

IT IS ANTICIPATED THAT THE PROJECT WILL COMMENCE DURING FALL/WINTER OF 2022/2023 AND BE COMPLETED IN THE FALL OF 2023.

DESIGN CRITERIA, CONSTRUCTION DETAILS AND MAINTENANCE PROGRAM FOR THE EROSION & SEDIMENT CONTROL MEASURES TO BE USED

SILT FENCE AND SILT FENCE BACKED WITH HAY BALES FOR STRUCTURAL SUPPORT WILL BE USED. ALL SILT FENCE SEDIMENT BARRIERS SHALL BE MAINTAINED SUCH THAT SEDIMENTS WILL BE REMOVED WHEN REACHING A HEIGHT OF 0.5 FEET. BREACHES IN SILT FENCE SHALL BE REPAIRED IMMEDIATELY. THE SILT FENCE SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAINFALL OF 0.5 INCH IN A 24 HOUR PERIOD.

CONSTRUCTION ENTRANCE DESIGN AND MAINTENANCE CRITERIA FROM 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. ENTRANCE TO THE CONSTRUCTION ENTRANCES WILL BE CONSTRUCTED OF ANGULAR STONE IN A SIZE AND GRADATION CORRESPONDING TO ASTM C-33, SIZE NO. 2 OR 3, OR DOT STANDARD SPECIFICATIONS SECTION 1.09.01 SIZE #5. THE CONSTRUCTION ENTRANCE WILL BE 12 FEET WIDE AND 50 FEET LONG.

CONSTRUCTION: CONSTRUCTION ENTRANCES AREA WILL BE CLEARED AND GRUBBED. AREAS WILL THEN BE ROUGH GRADED. A 4-INCH LAYER OF CRUSHED STONE WILL BE SPREAD AS DEPICTED IN THE DETAILS.

MAINTENANCE: THE CONSTRUCTION ENTRANCE WILL BE MAINTAINED IN A CONDITION THAT WILL MAINTAIN TRACKING AND WASHING OF SEDIMENT ONTO PAVED SURFACES. THE CONSTRUCTION ENTRANCE WILL BE TOP DRESSED AS NEEDED TO PROVIDE FUNCTIONALITY. ADDITIONAL LENGTH MAY BE ADDED IF ON-SITE CONDITIONS WARRANT SUCH EXTENSION. ANY ACCUMULATED OR SPILLED SEDIMENTS WILL BE CLEARED IMMEDIATELY, AND DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THIS EROSION & SEDIMENT CONTROL PLAN.

STOCKPILE MANAGEMENT WILL BE DONE IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (CHAPTER 4). TOPSOIL STOCKPILES WILL BE LOCATED AS DEPICTED ON THE PLANS, AND WILL BE TREATED AS DISTURBED GROUND, I.E. SURROUNDED BY SILT FENCE, AND SEEDED TO GRASS AFTER ALL THE TOPSOIL IS PLACED IN THE STOCKPILE. STOCKPILE SLOPES SHALL NOT EXCEED 2:1.

TOPSOILING SHALL TAKE PLACE AS AREAS ARE BROUGHT TO GRADE. THE TOPSOIL THAT SHALL BE SPREAD IS OF NATURAL ORIGIN AND WILL BE TAKEN FROM THE TOPSOIL STOCKPILES REFERRED TO ABOVE. STONES LARGER THAN 2 INCHES IN DIAMETER AND OTHER DEBRIS WILL BE REMOVED FROM THE TOPSOIL WITH A RAKE. TOPSOIL SHALL BE SPREAD AT A MINIMUM DEPTH OF 4 INCHES OVER ALL DISTURBED AREAS. IN ORDER TO "BOND" THE TOPSOIL TO THE SUBSOIL, THE SUBGRADE WILL BE LOOSENEED BY "TRACKING" WITH A BULLDOZER IMMEDIATELY BEFORE APPLYING TOPSOIL. TOPSOIL WILL NOT BE PLACED IF THE SUBGRADE OR THE TOPSOIL IS FROZEN OR TOO WET/HEAVY BURDEN-TRED. VEHICLES WILL BE EXCLUDED FROM THE NEWLY TOPSOILED AREAS TO PREVENT EXCESSIVE COMPACTION WHICH COULD HINDER SEED GERMINATION AND SEEDLING GROWTH.

PERMANENT SEEDING WILL BE DONE AS DISTURBED AREAS ARE BROUGHT TO GRADE AND TOPSOILED AS LONG AS SUCH SEEDING IS DONE BETWEEN APRIL 1 AND JULY OR AUGUST 15 THROUGH OCTOBER 31. WITHIN 7 DAYS AFTER TOPSOIL IS APPLIED THE APPROPRIATE SEED MIX WILL BE BROADCAST AT THE PRESCRIBED RATE FOR THAT PARTICULAR MIX. THE SELECTED SEED MIX WILL BE FROM THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, FIGURE PS-3. PRIOR TO SEEDING, FERTILIZER WILL BE APPLIED AT THE RATE OF 7.5 PER 1,000 SQUARE FEET (10-10-10 OR EQUIVALENT), AND GROUND Limestone WILL BE APPLIED AT THE RATE OF 200 POUNDS PER 1,000 SQUARE FEET. THE LIME AND FERTILIZER WILL BE LIGHTLY WORKED TO A DEPTH OF 3 TO 4 INCHES. SEED SHALL BE APPLIED UNIFORMLY USING A CYCLOPE SEEDER (HYDROSEEDING MAY BE USED IN LIEU OF CONVENTIONAL SEEDING METHODS). HAY MULCH WILL BE APPLIED AT THE RATE OF 100 POUNDS (APPROXIMATELY 2 BALES) PER 1,000 SQUARE FEET. WHERE SLOPES EXCEED 10 PERCENT, JUTE NETTING SHALL BE USED TO ANCHOR THE HAY MULCH IN PLACE. ANY SUCH NETTING WILL BE INSTALLED TO MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE: THE SEEDING WILL BE INSPECTED AT LEAST ONCE PER WEEK, AND WITHIN 24 HOURS OF A RAINFALL IN AN AMOUNT EXCEEDING 0.5 INCHES IN 24 HOURS. IN ANY AREAS THAT SUSTAIN DAMAGE, THE TOPSOIL WILL BE REAPPLIED AND SMOOTHED, AND RESEED AS DESCRIBED ABOVE. THE NEWLY ESTABLISHED GRASS WILL NOT BE MOWN UNTIL IT REACHES A HEIGHT OF 8 INCHES. MOWING WILL NOT TAKE PLACE WHEN THE GROUND SURFACE IS WET. THE FIRST MOWING WILL TAKE 33 TO 50 PERCENT OF THE GRASS HEIGHT (I.E. NOT BELOW 3 INCHES). MULCH MATERIALS WILL NOT BE REMOVED, BUT WILL BE ALLOWED TO DISINTEGRATE OVER TIME.

WHERE BARE GROUND NEEDS TO BE PROTECTED FOR RELATIVELY SHORT PERIODS, OR WHERE THE SEEDING SEASONS FOR PERMANENT SEEDINGS CAN NOT BE ADHERED TO, TEMPORARY SEEDING MAY BE USED. THE RECOMMENDED SEED MIX WILL VARY UPON CIRCUMSTANCES, BUT SHALL BE IN COMPLIANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, FIGURE TS-2. TEMPORARY SEEDING RATES AND DATES, WHERE THE SEASON PRECLUDES ANY TYPE OF SEEDING, AN ANCHORED MULCH WILL BE EMPLOYED TO PROTECT BARE SOIL AREAS.

CONSTRUCTION SEQUENCE: PRIOR TO THE COMMENCEMENT OF ANY EARTH DISTURBANCES, THE DEVELOPER AND HIS CONTRACTOR SHALL MEET WITH TOWN STAFF FOR A PRECONSTRUCTION CONFERENCE.

1) INSTALL CONSTRUCTION ENTRANCE AS SHOWN ON PLAN.

2) INSTALL EROSION AND SEDIMENT CONTROL.

3) CONSTRUCT THE STORMWATER QUALITY BASIN. TOPSOIL WILL BE APPLIED TO THE BASIN SIDESLOPES IMMEDIATELY AFTER CONSTRUCTION, AND THE SIDESLOPES WILL BE SEEDED INSTANT. SEDIMENT BARRIERS ALONG THE ROAD AND IN THE AREA OF THE BASIN AS DEPICTED ON THE PLANS.

4) STRIP TOPSOIL FROM THE ROADWAY AND STOCKPILE TOPSOIL ACCORDING TO THE PLAN. SEED STRIPPED AREAS THAT ARE NOT TO BE WORKED FOR 30 DAYS IMMEDIATELY WITH PERENNIAL RYEGRASS AT THE RATE OF 40 LBS./ACRE.

5) GRADE THE ROAD TO ATTAIN THE PLANNED SUBGRADE PROFILE AND GRADE SIDESLOPES TO PLAN.

6) APPLY TOPSOIL AND PERMANENT SEED MIX AND APPLY AND ANCHOR MULCH TO ALL FINISHED SLOPES.

7) INSTALL ALL DRAINAGE STARTING AT THE OUTFALL AND PROCEEDING UPWARD. THE CONTRACTOR WILL ENSURE THAT ADEQUATE PROTECTION IS PROVIDED AT THE OUTLET OF THE DRAINAGE SYSTEM SO THAT SEDIMENTS WILL BE PREVENTED FROM MIGRATING OFF THE SITE. NO WATER WILL BE ALLOWED TO ENTER THE DRAINAGE SYSTEM UNTIL THE OUTLET IS PROTECTED. ALL DRAINAGE COMPONENTS WILL BE CHECKED ON A REGULAR BASIS AND CLEARED AS NEEDED TO MAINTAIN PROPER FUNCTION.

8) PLACE, GRADE AND COMPACT THE SUBGRADE ADEQUATE TO ESTABLISH THE ROADWAY BASE. TOPSOIL AND GRADE ALL SLOPES/DISTURBED AREAS WITHIN 2 FEET OF THE OUTSIDE OF THE PROPOSED CURBS.

9) LAY DOWN FIRST COURSE OF BITUMINOUS PAVEMENT.

10) INSTALL CURBING (WHERE REQUIRED).

11) APPLY TOP COURSE OF BITUMINOUS PAVEMENT.

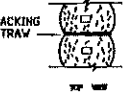
12) REMOVE SILT FENCE AFTER TOPSOIL STABILIZED.

DISPOSAL OF SEDIMENTS - ANY SEDIMENT REMOVED FROM ANY EROSION AND SEDIMENT CONTROL MEASURE AS PART OF SITE MAINTENANCE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH THE INTENT OF THIS PLAN. NO SEDIMENT SHALL BE DEPOSITED IN ANY WETLAND AREA.

FIELD CHANGES - IF FIELD MODIFICATIONS OF PLANNED MEASURES ARE NEEDED TO PROPERLY ADDRESS ANY EROSION OR SEDIMENTATION SITUATION, SUCH CHANGES MAY BE MADE ONLY AFTER NOTIFYING TOWN STAFF. ADDITIONAL NON-STRUCTURAL MEASURES MAY BE ADDED WITHOUT PRIOR NOTIFICATION.

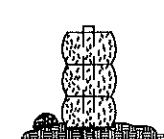
APPROVED BY THE TOWN ENGINEER AND TOWN ENGINEER AS TO THE COMPLIANCE WITH THE REGULATIONS GOVERNING THE SUBDIVISION OF LAND. ALL IMPROVEMENTS SHALL BE COMPLETED BY _____ DATE _____	
CHAIRMAN OR SECRETARY OF THE TOWN ENGINEER	DATE
EROSION AND SEDIMENT CONTROL PLAN CHECKED BY VOTE OF THE TOWN ENGINEER AND TOWN ENGINEER ON _____ DATE _____	
LOT NUMBERS ASSIGNED BY THE ASSessor _____ DATE _____	
ASSessor	DATE
TYPE APPLICATION _____	
APPROVED _____	
NO FURTHER MODIFICATION (NOT WITHIN A REGULATED AREA)	
NOT APPLICABLE AT THIS TIME (WITHIN A REGULATED AREA)	
NO FURTHER MODIFICATION AT THIS TIME	
VETANUS OFFICER _____ DATE _____	
APPROVED BY THE DIRECTOR OF PUBLIC WORKS ON THE TOWN ENGINEER FOR PUBLIC WAY LAYOUT. _____ DATE _____	
PUBLIC WORKS DIRECTOR/TOWN ENGINEER _____ DATE _____	
EROSION AND SEDIMENT CONTROL PLAN CHECKED BY VOTE OF THE TOWN ENGINEER AND TOWN ENGINEER _____ DATE _____	
CHAIRMAN OR SECRETARY OF THE TOWN ENGINEER _____ DATE _____	
APPROVED BY THE TOWN ENGINEER OFFICER OF THE TOWN ENGINEER _____ DATE _____	
TOWN ENGINEER OFFICER _____ DATE _____	

1. EXCAVATE A TRENCH 4" DEEP & THE WIDTH OF A STRAW BALE



3. WEDGE LOOSE STRAW BETWEEN BALES TO CREATE A CONTINUOUS BARRIER.

2. PLACE & STAKE STRAW BALES, TWO STAKES PER BALE



4. BACKFILL & COMPACT THE EXCAVATED SOIL ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

CONSTRUCTION OF A STRAW BALE BARRIER

NOT TO SCALE

1. SET POSTS & EXCAVATE A 6" x 6" TRENCH SET POSTS DOWNHOLE. ANGLE UPHOLE FOR STABILITY & SELF-CLEANING.

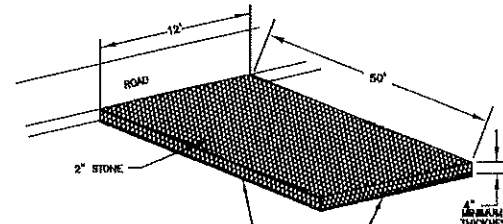


3. ATTACH FILTER FABRIC TO THE WIRE FENCING & EXTEND IT INTO THE TRENCH.

4. BACKFILL THE TRENCH & COMPACT WITH EXCAVATED SOIL.

FILTER FABRIC SEDIMENT BARRIER

NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE

STORMWATER QUALITY BASIN CONSTRUCTION NOTES

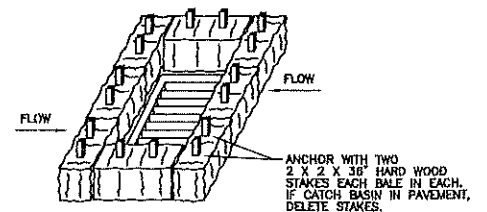
1. STORMWATER QUALITY BASIN EMBANKMENTS SHALL BE CONSTRUCTED OF SILTY SAND AND/OR CLAYEY MATERIALS. ON-SITE BORROW MATERIAL MAY BE USED IF SUITABLE DEPOSITS ARE FOUND. EMBANKMENT FILL SHALL CONTAIN AT LEAST 10% BY WEIGHT OF MATERIAL PASSING THE #200 SIEVE AND NOT MORE THAN 50% PASSING THE #60 SIEVE.
 2. EMBANKMENT FILL SHALL HAVE NO STONES LARGER THAN 6" IN THEIR GREATEST DIMENSION. NO STONES LARGER THAN 3" IN THEIR GREATEST DIMENSION SHALL BE ALLOWED WITHIN 2 FEET OF STRUCTURES OR PIPES.
 3. ALL FILL MATERIAL SHALL BE FREE OF TOPSOIL, ROOTS, STUMPS, ORGANICS, FROZEN MATERIAL AND OTHER DELETERIOUS MATTER.
 4. ALL EMBANKMENT MATERIAL SHALL BE COMPACTED TO 90% MINIMUM RELATIVE COMPACTIONS DETERMINED BY ASTM D1557 - MODIFIED PROCTOR. THE MAXIMUM LOOSE LIFT THICKNESS OF EMBANKMENT FILL SHALL BE 12".
 5. ALL TOPSOIL, ORGANICS, ROOTS AND OTHER DELETERIOUS MATTER SHALL BE REMOVED FROM THE EXISTING GROUND SURFACE PRIOR TO CONSTRUCTION OF THE PROPOSED EMBANKMENTS.
 6. ALL EMBANKMENTS AND DISTURBED AREAS OF THE STORMWATER QUALITY BASIN SHALL BE PERMANENTLY STABILIZED WITH 4" LOAM, SEED AND MULCH. SUITABLE HYDROSEEDING EQUIPMENT MAY BE USED FOR APPLICATION OF SEED, MULCH AND/OR FERTILIZER. THE FOLLOWING SEED MIX SHALL BE USED IN THESE AREAS.
- | | |
|---------------------|----------|
| VALENTI | LBS/ACRE |
| CRISTINO RED FESCUE | 20 |
| REDTOP | 2 |
| BENT GRASS | 15 |
| TOTAL | 37 |

STORMWATER QUALITY BASIN OPERATION AND MAINTENANCE NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND INSPECTIONS PRIOR TO COMPLETION OF THE ROADWAY.
2. DURING THE FIRST YEAR OF OPERATION, THE BASIN SHALL BE INSPECTED ON WEEKLY BASIS OR WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCH OR GREATER. ANY EROSION OF EMBANKMENTS OR OUTLET AREAS SHALL BE REPAIRED PROMPTLY. ANY DEBRIS SHALL BE REMOVED AND DISPOSED OF. SEDIMENTATION THAT WOULD INTERFERE WITH PROPER OPERATION OF THE BASIN SHALL BE REMOVED AND DISPOSED OF AND THE AREA RESTORED AND STABILIZED AS REQUIRED.
3. AFTER THE BASIN HAS BEEN IN OPERATION FOR ONE YEAR, INSPECTIONS SHALL BE PERFORMED QUARTERLY OR WITHIN 24 HOURS AFTER A STORM EVENT OF 2.0 INCHES OR GREATER. QUARTERLY INSPECTIONS SHALL INCLUDE THE FOLLOWING ITEMS:
 - NOXIOUS WEEDS SHALL BE REMOVED. PERFORM ANY MOWING OPERATIONS REQUIRED.
 - INSPECT EMBANKMENTS FOR ANY WOODY GROWTH. ALL TREES, VINES AND OTHER WOODY PLANTS SHALL BE REMOVED AND VOIDS LEFT FROM THEIR REMOVAL SHALL BE REPAIRED.
 - INSPECT EMBANKMENTS FOR ANY ANIMAL BURROWS. ALL BURROWS AND VOIDS SHALL BE REPAIRED IMMEDIATELY.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE BASIN FOREBAY AND OTHER AREAS TO RESTORE ORIGINAL DESIGN GRADES. DISTURBED AREAS SHALL BE RESEEDING AS REQUIRED AFTER REMOVAL OF SEDIMENT.
 - INLETS AND OUTLETS SHALL BE INSPECTED FOR SCOUR DAMAGE AND EROSION AND REPAIRED AS REQUIRED.
 - ANY EVIDENCE OF PIPING OR SEEPAGE AT THE TOE OF EMBANKMENTS OR AROUND INLET/OUTLET STRUCTURES SHALL BE INVESTIGATED BY A QUALIFIED PROFESSIONAL ENGINEER AND REPORTED TO THE TOWN. REQUIRED REPAIRS TO MAINTAIN THE PROPER FUNCTION OR REPAIR POTENTIAL STRUCTURAL DEFICIENCIES IN THE BASIN SHALL BE IMPLEMENTED WITHIN ONE MONTH OF DISCOVERY OF THE PROBLEM OR AT DISCRETION OF THE RESPONSIBLE PROFESSIONAL ENGINEER PERFORMING THE INVESTIGATION OR DESIGNING SUCH REPAIRS. THE ENGINEER SHALL CERTIFY THAT ALL REPAIRS ARE PERFORMED TO HIS/HER SATISFACTION AND SHALL PROVIDE SUCH CERTIFICATION TO THE TOWN.

STORMWATER SYSTEM OPERATION AND MAINTENANCE NOTES

- PROVIDE ANNUAL STREET SWEEPING, PREFERABLY AFTER FINAL SNOW MELT TO ALLEVIATE SEDIMENT BUILDUP IN CATCH BASIN STUMPS AND TO INSURE EFFICIENT TSS REMOVAL FROM STORMWATER.
- REMOVE SEDIMENT FROM CATCH BASIN STUMPS WHEN SEDIMENT REACHES HALF THE DEPTH OF THE STUMP.
- INSPECT CATCH BASINS FOR TRASH AND DEBRIS BI-ANNUALLY. REMOVE ACCUMULATED SEDIMENT AND DEBRIS FROM PIPE INLETS AND OUTLETS TO PREVENT CLOGGING.
- REMOVE ACCUMULATED TRASH AND LEAVES FROM CATCH BASIN GRATES TO INSURE ADEQUATE GRATE INFLOW CAPACITIES.



CATCH BASIN INLET PROTECTION

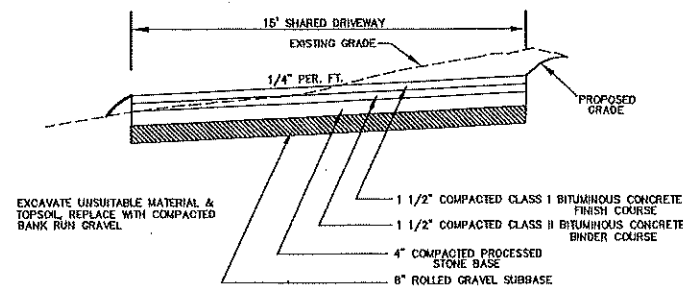
NOT TO SCALE

PLAN SHOWING EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS

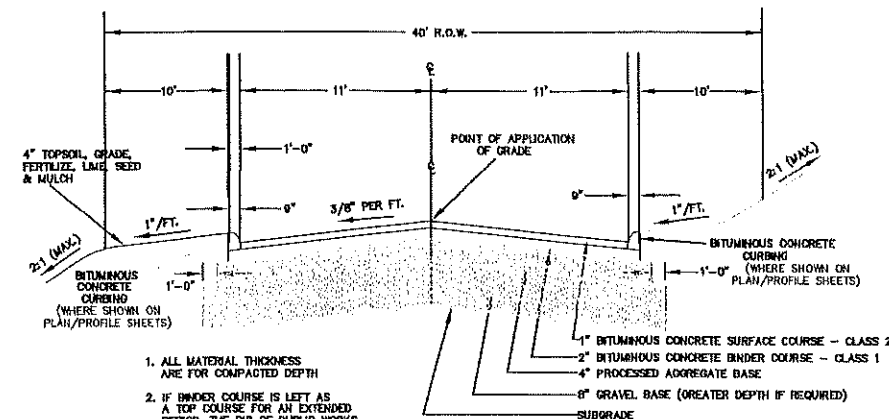
RESUBDIVISION
PROPERTY OF
AVERY BROOK HOMES LLC
94, 98, 98 AND 100
STODDARDS WHARF ROAD
A.K.A.
CONNECTICUT ROUTE 214
LEDYARD, CONNECTICUT

JULY 2022

REVISED: OCTOBER 31, 2022



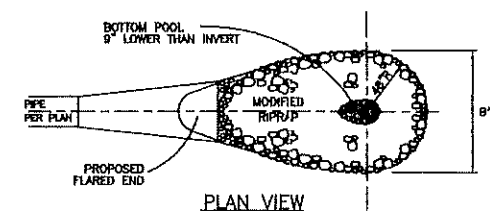
TYPICAL PAVED COMMON DRIVEWAY CROSS-SECTION
NOT TO SCALE



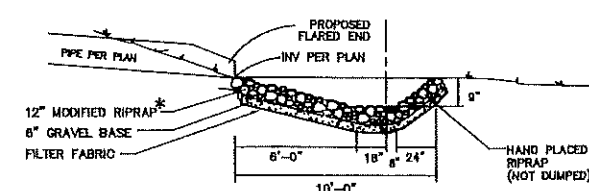
1. ALL MATERIAL THICKNESS ARE FOR COMPACTED DEPTH
2. IF BINDER COURSE IS LEFT AS A TOP COURSE FOR AN EXTENDED PERIOD, THE DIR. OF PUBLIC WORKS MAY REQUIRE THAT A TACK COAT OF BITUMINOUS MATERIAL MAY BE APPLIED BEFORE LAYING THE BITUMINOUS CONCRETE SURFACE COURSE.
3. SUBBASE DEPTH SHALL BE INCREASED TO 10\"/>

4. FOR CONSTRUCTION MATERIAL STANDARDS, REFER TO STATE OF CONNECTICUT, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 813, AS AMENDED.

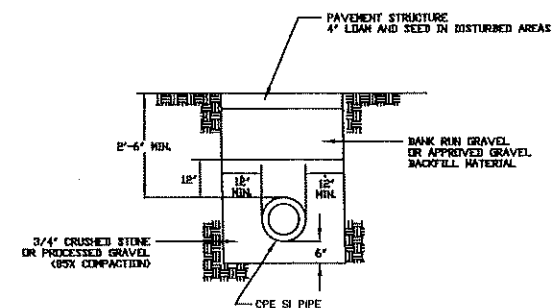
AVERY BROOK CIRCLE CROSS SECTION
(N.T.S.)



PLAN VIEW



SECTION VIEW
PREFORMED SCOUR HOLE
NOT TO SCALE
FOR FLARED END UNIT



NOTE:
1. IF PIPE IS PLACED IN OR ON LEDGE, ALL LEDGE WITHIN 12\"/>

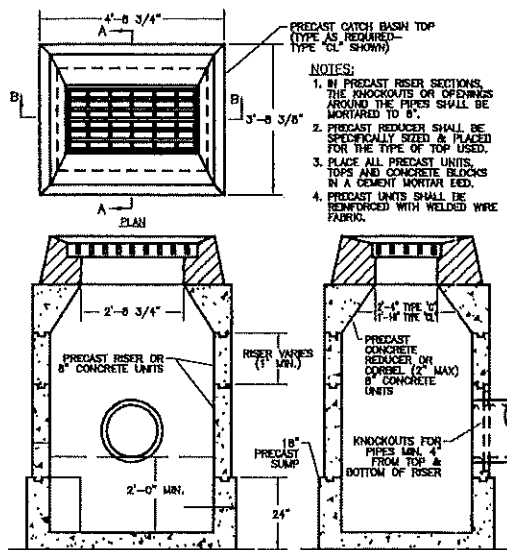
DRAINAGE PIPE TRENCH
NOT TO SCALE



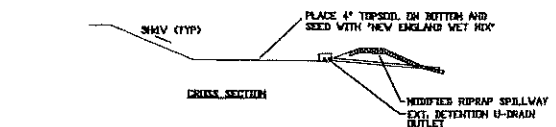
STOP SIGN
NOT TO SCALE

SECURE TO 1 1/2\"/>

NOTE:
SIGN TO BE INSTALLED IN ACCORDANCE WITH STATE OF CONNECTICUT DOT, STANDARDS



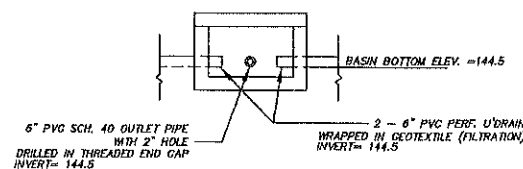
PRECAST CATCH BASIN
NOT TO SCALE



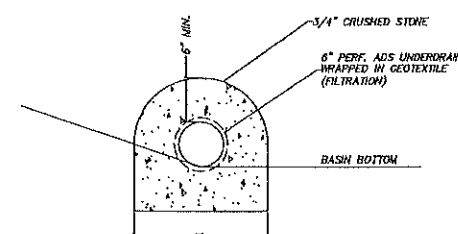
NOTES:
THE PURPOSE OF THE WATER QUALITY BASIN IS TO REMOVE SEDIMENT FROM THE WATER QUALITY VOLUME (WQV). THE BASIN IS SIZED TO HOLD THE WQV (WQV CALCULATED FEET) WHICH WILL BE FILTERED THROUGH THE SURFACE DRAIN AND SLOWLY RELEASED INTO THE WETLANDS.

STORMS THAT EXCEED THE WATER QUALITY VOLUME WILL FLOW OUT THE SPILLWAY.

WATER QUALITY BASIN
(N.T.S.)



D-BOX OUTLET
EXTENDED DETENTION
UNDERDRAIN OUTLET
NOT TO SCALE



EXTENDED DETENTION UNDERDRAIN
NOT TO SCALE

PLAN SHOWING
CONSTRUCTION DETAILS
RESUBDIVISION
PROPERTY OF
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JULY 2022
REVISED: OCTOBER 31, 2022
REVISED: DECEMBER 13, 2022

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