

"WOODRUFF PROPERTY HOUSING DEVELOPMENT"

VACANT PARCEL - MAP: 33 LOT: 15

45 STONE HOUSE LANE
GUILFORD, CONNECTICUT

APRIL 1, 2025

OWNER:

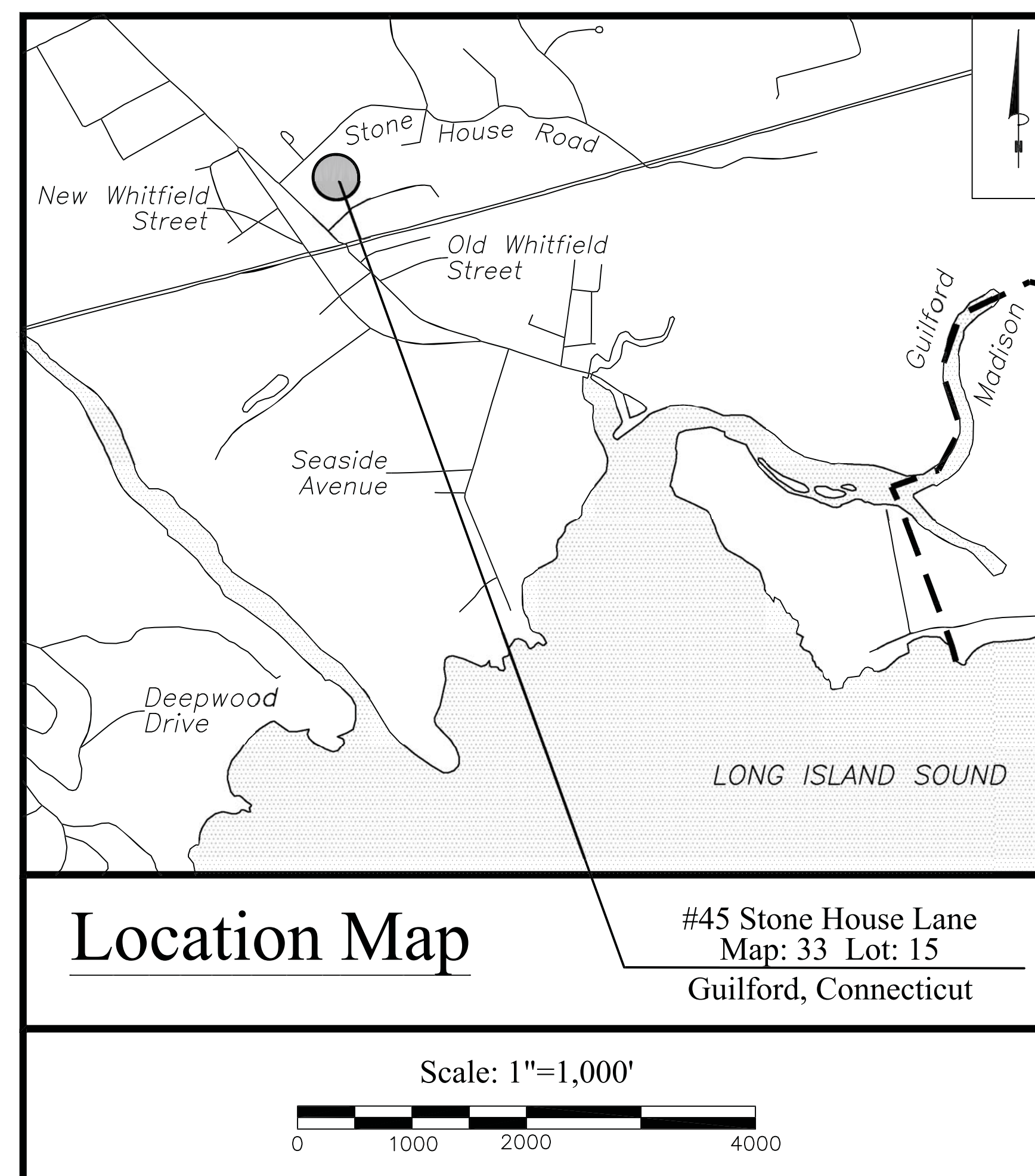
"TOWN OF GUILFORD"

ATTN: MATTHEW T. HOEY III
#31 PARK STREET
GUILFORD, CT 06443
(203) 453-8015

APPLICANT:

"NEIGHBORWORKS NEW HORIZONS"

ATTN: TOM CRUESS
#235 GRAND AVE.
NEW HAVEN, CT 06513
(203) 562-4514



SHEET INDEX

C - Cover
SS1 - Site Survey
SP1 - Site Plan
SD1 - Grading / Utility / Erosion Control Plan
SEP1 - Septic System Notes & Details 1
SEP2 - Septic System Notes & Details 2
D1 - Misc. Construction Details & Notes



LAND SURVEYOR

ANDERSON SURVEYING LLC
1575 BOSTON POST ROAD
SUITE F
GUILFORD, CT 06437
TEL. (203) 453-5084

SOIL SCIENTIST

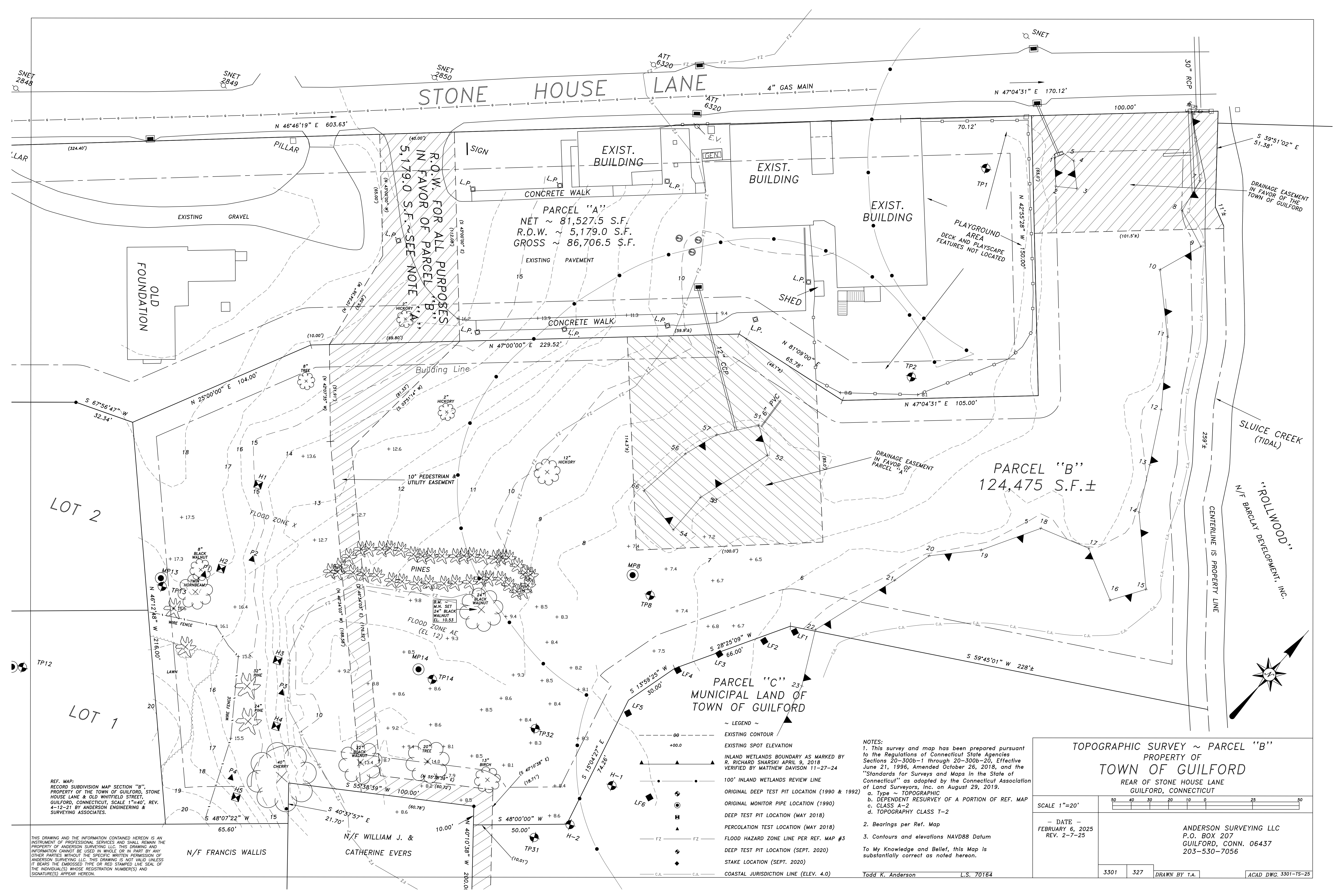
DAVISON ENVIRONMENTAL, LLC
#10 MAPLE STREET
CHESTER, CT 06412
TEL. (860) 836-6576

CIVIL ENGINEER

HARKIN ENGINEERING, LLC
#78 WOLF HOLLOW LANE
KILLINGWORTH, CT 06419
TEL. (860) 663-4248

APPROVAL SET
NOT FOR CONSTRUCTION





REF. MAP:
RECORD SUBDIVISION MAP SECTION "B",
PROPERTY OF THE TOWN OF GUILFORD, STONE
HOUSE LANE & OLD WHITFIELD STREET,
GUILFORD, CONNECTICUT, SCALE 1"=40', REV.
4-12-21 BY ANDERSON ENGINEERING &
SURVEYING ASSOCIATES.

THIS DRAWING AND THE INFORMATION CONTAINED HEREON IS AN
INSTRUMENT OF PROFESSIONAL SERVICES AND SHALL REMAIN THE
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ANDERSON SURVEYING LLC. THIS DRAWING IS NOT VALID UNLESS
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THE INDIVIDUAL(S) WHOSE REGISTRATION NUMBER(S) AND
SIGNATURE(S) APPEAR HEREON.

N/F FRANCIS WALLIS

N/F WILLIAM J. &
CATHERINE EVERS

- ~ LEGEND ~
- EXISTING CONTOUR
 - EXISTING SPOT ELEVATION
 - INLAND WETLANDS BOUNDARY AS MARKED BY
R. RICHARD SNARSKI APRIL 9, 2018
VERIFIED BY MATTHEW DAVISON 11-27-24
 - 100' INLAND WETLANDS REVIEW LINE
 - ORIGINAL DEEP TEST PIT LOCATION (1990 & 1992)
 - ORIGINAL MONITOR PIPE LOCATION (1990)
 - DEEP TEST PIT LOCATION (MAY 2018)
 - PERCOLATION TEST LOCATION (MAY 2018)
 - FLOOD HAZARD ZONE LINE PER REF. MAP #3
 - DEEP TEST PIT LOCATION (SEPT. 2020)
 - STAKE LOCATION (SEPT. 2020)
 - COASTAL JURISDICTION LINE (ELEV. 4.0)

NOTES:
1. This survey and map has been prepared pursuant to
the Regulations of Connecticut State Agencies
Sections 20-300b-1 through 20-300b-20, Effective
June 21, 1996, Amended October 26, 2018, and the
"Standards for Surveys and Maps in the State of
Connecticut" as adopted by the Connecticut Association
of Land Surveyors, Inc. on August 29, 2019.
a. Type ~ TOPOGRAPHIC
b. DEPENDENT RESURVEY OF A PORTION OF REF. MAP
c. CLASS A-2
d. TOPOGRAPHY CLASS T-2

2. Bearings per Ref. Map

3. Contours and elevations NAVD88 Datum

To My Knowledge and Belief, this Map is
substantially correct as noted hereon.

Todd K. Anderson L.S. 70164

TOPOGRAPHIC SURVEY ~ PARCEL "B"

PROPERTY OF

TOWN OF GUILFORD

REAR OF STONE HOUSE LANE

GUILFORD, CONNECTICUT

SCALE 1"=20'

50 40 30 20 10 0 25 50

— DATE —
FEBRUARY 6, 2025
REV. 2-7-25

ANDERSON SURVEYING LLC
P.O. BOX 207
GUILFORD, CONN. 06437
203-530-7056

3301 327

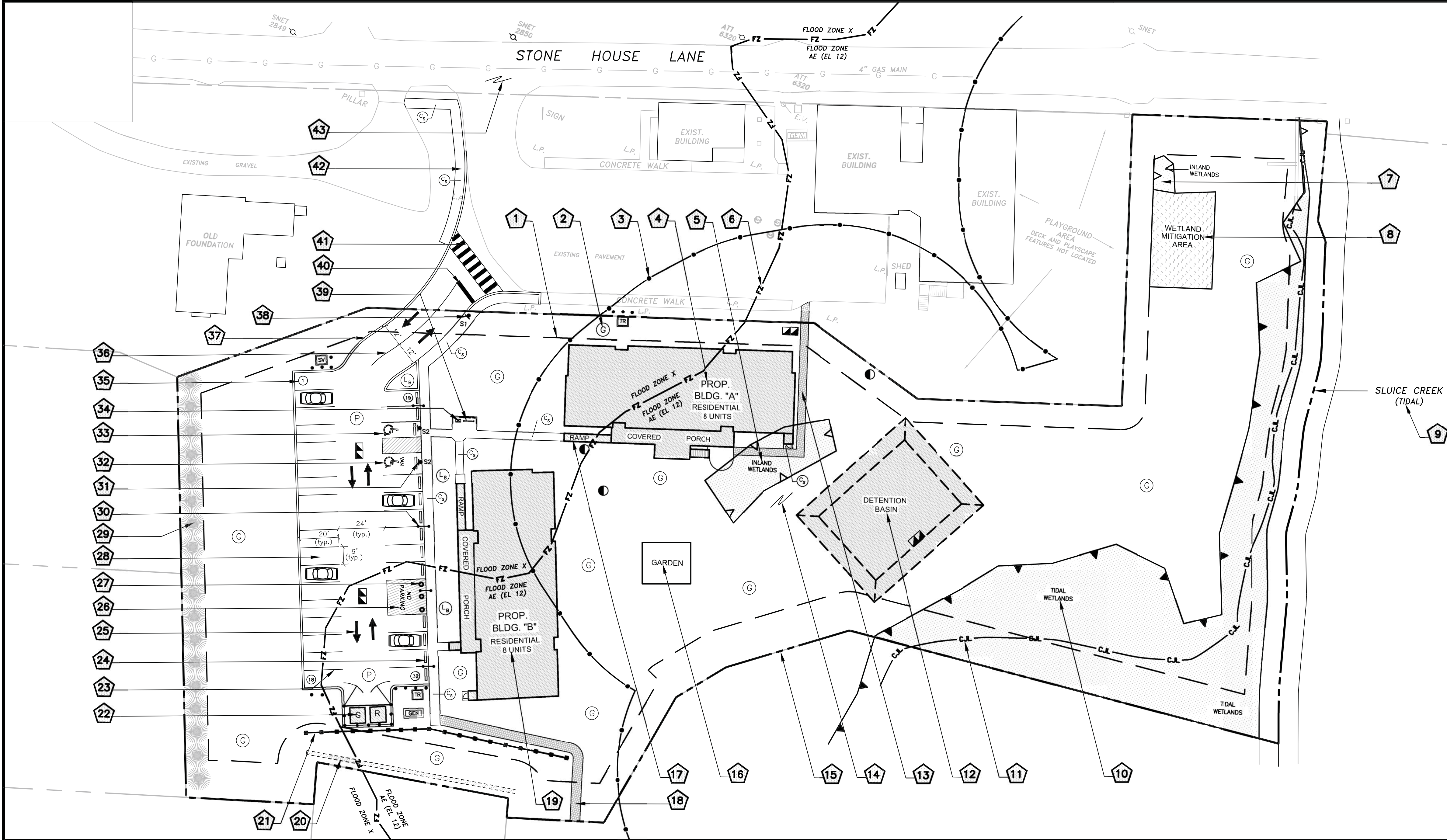
DRAWN BY T.A.

ACAD DWG. 3301-TS-25

SURFACE CODE LEGEND					
SYMBOL	DESCRIPTION	CROSS SECTION	SYMBOL	DESCRIPTION	CROSS SECTION
C ₃	CONCRETE SIDEWALK		P	BITUMINOUS CONCRETE PAVEMENT	
G	GRASS		L _B	LANDSCAPE BED	

ZONING COMPLIANCE SUMMARY - R-3 (TOWN CENTER SOUTH OVERLAY)		
	REQUIRED	PROVIDED
LOT SIZE (S.F.)	20,000	124,475
FRONT YARD SETBACK (FT)	20	212.5±
SIDE YARD SETBACK (FT)	12	15.0±
REAR YARD SETBACK (FT)	20	46.5±
LOT COVERAGE (BLDG)	20%	8.8% (10,968)
BUILDING HEIGHT (FT) AVG./TOTAL	32 / 37	< 37.5'

PARKING BREAKDOWN	
Parking Provided:	
2 Handicap Spaces (1 Van)	
30 Regular Parking Spaces	
Total Spaces = 32	



CONSTRUCTION CALLOUTS

- BUILDING SETBACK LINE (TYP.).
- SURFACE CODE LEGEND (TYP.). SEE SURFACE CODE LEGEND LOCATED ON THIS SHEET.
- 100' UPLAND REVIEW LIMIT LINE (INLAND WETLANDS).
- PROP. RESIDENTIAL BUILDING "A" (9,560 S.F., 8 UNITS, 18 BEDROOMS). SEE ARCHITECTURAL PLANS FOR ALL SPECIFICATIONS AND REQUIREMENTS.
- INLAND WETLANDS TO BE FILLED (1,575± S.F.).
- FEMA FLOOD ZONE LINE (TYP.).
- INLAND WETLAND AREA PER SOIL SCIENTIST.
- PROP. INLAND WETLAND MITIGATION AREA (1,575± S.F.). REFER TO SOIL SCIENTIST PLANTING PLAN FOR WETLAND CREATION.
- SLUICE CREEK IS A TIDAL CHANNEL / WETLAND.
- TIDAL WETLAND AREA PER SOIL SCIENTIST.
- COASTAL JURISDICTION LINE - C.J.L. (TYP.).
- PROP. STORMWATER DETENTION BASIN.
- PROP. 5' WIDE CRUSHED STONE WALKING PATH (TYP.).
- PROP. 6" LOAM, SEED AND HAY ALL DISTURBED AREAS AS SOON AS PRACTICAL.
- PROPERTY LINE TO BE STAKED BY A LICENSED LAND SURVEYOR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES AT THE SUBJECT SITE.
- PROP. COMMUNAL GARDEN LOCATION.
- RAMP LOCATION FOR BUILDING ACCESS (TYP.). SEE ARCHITECTURAL PLANS FOR ALL SPECIFICATIONS AND REQUIREMENTS.
- PROP. 5' WIDE CRUSHED STONE WALKING PATH (TYP.).
- PROP. RESIDENTIAL BUILDING "B" (9,560 S.F., 8 UNITS, 18 BEDROOMS). SEE ARCHITECTURAL PLANS FOR ALL SPECIFICATIONS AND REQUIREMENTS.
- PROP. GRASS SWALE (TYP.). SEE DETAIL ON SHEET D1.
- PROP. WOODEN GUIDERAIL WITH STEEL BACKING AS SHOWN (TYP.).
- PROP. SCREENED DUMPSTER / RECYCLING ENCLOSURE ON TOP OF CONC. PAD. SEE ARCHITECTURAL PLAN FOR SPECIFICATIONS / REQUIREMENTS.
- PROP. 4" WHITE PAINTED PARKING SPACE LINE (TYP.).
- PROP. PRECAST CURB STOP (TYP.).
- PROP. WHITE DIRECTIONAL PAVEMENT MARKING (TYP.).
- 18' X 20' NO PARKING AREA FOR TURNAROUNDS. AREA TO BE DESIGNATED WITH WHITE PAVEMENT MARKINGS.
- PROP. CONC. BOLLARDS IN FRONT OF DROP OFF AREA. EXACT SIZE AND SPACING TO BE DETERMINED IN FIELD. OWNER SHALL CHOOSE COLOR AND STYLE BEFORE INSTALLATION.
- PROP. PARKING SPACE TO BE 9'W X 20'D (TYP.).
- PROP. VEGETATIVE SCREENING / BUFFER. SEE LANDSCAPE ARCHITECTURAL PLANS FOR ALL LANDSCAPING REQUIREMENTS.
- FLUSH CURBING (TYP.).
- PROP. "S2" HANDICAP PARKING SIGN (TYP.). ALL HANDICAP SIGNS TO MEET STATE AND FEDERAL GUIDELINES / REQUIREMENTS.
- PROP. "VAN" HANDICAP PARKING SPACE (TYP.). ALL HANDICAP SPACES TO MEET STATE AND FEDERAL GUIDELINES / REQUIREMENTS.
- PROP. HANDICAP PARKING SPACE (TYP.). ALL HANDICAP SPACES TO MEET STATE AND FEDERAL GUIDELINES / REQUIREMENTS.
- PROP. MAILBOX LOCATION.
- PARKING COUNT NUMBER (TYP.).
- PROP. 4" WHITE PAINTED LANE LINE (TYP.).
- PROP. 6" BIT. CONC. CURBING (TYP.). SEE DETAIL ON SHEET D1.
- PROP. "S1" 30" STOP SIGN LOCATION (TYP.). ALL STOP SIGNS TO MEET STATE & FEDERAL GUIDELINES / REQUIREMENTS.
- PROP. BIKE RACK LOCATION. OWNER TO SELECT STYLE PRIOR TO INSTALL.
- PROP. 12" WHITE STOP BAR PAVEMENT MARKING (TYP.).
- PROP. WHITE PAINTED CROSSWALK. CROSSWALK MARKINGS TO MEET STATE AND FEDERAL GUIDELINES / REQUIREMENTS.
- PROP. 5' WIDE, CAST IN PLACE CONCRETE SIDEWALK (TYP.).
- CONTRACTOR TO TAKEOUT ALL PERMITS NEEDED / REQUIRED TO WORK WITHIN THE TOWN ROADWAY & RIGHT-OF-WAY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH TOWN REQUIREMENTS.

L E G E N D	
— 00.0 —	EXISTING CONTOUR
— +00.0 —	EXISTING SPOT ELEVATION
—	INLAND WETLANDS BOUNDARY AS MARKED BY R. RICHARD SNARSKI APRIL 9, 2018 VERIFIED BY MATTHEW DAVISON 11-27-24
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•	PERCOLATION TEST LOCATION (MAY 2018)
— FZ —	FLOOD HAZARD ZONE LINE PER REF. MAP #3
•	DEEP TEST PIT LOCATION (SEPT. 2020)
•	STAKE LOCATION (SEPT. 2020)
— C.J.L. —	COASTAL JURISDICTION LINE (ELEV. 4.0)

PROJECT REQUIREMENTS

- Design Engineer to review and monitor all phases of construction / installation.
- A mandatory pre-construction meeting with the Contractor and Design Engineer is required prior to the commencement of any on-site activities.

CONTRACTOR REVIEW NOTE

The Contractor / Builder is to verify all applicable Code and installation requirements. Any discrepancies (pipe slopes, inverts, setbacks, computations, etc.) shall be brought to the design engineers attention immediately.

OWNER:

TOWN OF GUILFORD
ATTN: MATTHEW T. HOEY III
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APPROVAL SET NOT FOR CONSTRUCTION

NO.	DATE	REVISIONS

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Michael P. Harkin P.E. #22625



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SITE PLAN

"WOODRUFF PROPERTY HOUSING DEVELOPMENT"

Prepared for
Town of Guilford
#45 Stone House Lane - Map: 33 Lot: 15
Guilford, Connecticut

DRAWING SCALE: 1"=30'

0 15 30 60

HARKIN ENGINEERING, LLC

CIVIL ENGINEERING CONSULTING

78 Wolf Hollow Lane - Killingworth, CT 06419 - Tel. (860) 663-4248

JOB NO. 23-05 DRAWN BY: M.P.H. DATE: 4/1/25 SHEET NO. SP1

CONSTRUCTION CALLOUTS

- 1 - PUMP CHAMBER ELECTRICAL & ALARM CONDUITS (TYP.). EXACT LOCATIONS TO BE DETERMINED IN FIELD. PUMP CHAMBER PUMP TO BE HOOKED UP TO THE EMERGENCY GENERATOR.
- 2 - PROP. TRANSFORMER LOCATION FOR BUILDING "A". EXACT TYPE, SIZE AND LOCATION TO BE DETERMINED BY EVERSOURCE. CONTRACTOR TO INSTALL TRANSFORMER IN ACCORDANCE WITH ALL EVERSOURCE REQUIREMENTS (PAD, BOLLARDS, SETBACKS, ETC.).
- 3 - PROP. 8" SOLID PVC ROOF LEADER OUTLET PIPE (TYP.). CONNECT ROOF LEADER INTO DRAINAGE STRUCTURES AND DETENTION BASIN AS SHOWN.
- 4 - PROP. TEMPORARY CONSTRUCTION FENCING. 6" HIGH CHAIN LINK WITH PRIVACY SLATS AND / OR SOLID SHEATHING. FENCING TO BE INSTALLED PRIOR TO ANY ON-SITE ACTIVITIES AND REMOVED AT THE END OF CONSTRUCTION.
- 5 - EXIST. 12" CCP TO BE CONNECTED INTO NEW CB #3. INVERT TO BE DETERMINED IN FIELD.
- 6 - EXIST. 6" PVC PIPE TO BE CONNECTED INTO NEW MH #3. INVERT TO BE DETERMINED IN FIELD.
- 7 - PROP. STORM DRAINAGE STRUCTURE (TYP.). SEE CHART LOCATED ON THIS SHEET FOR REQUIREMENTS (TYP.).
- 8 - 14'± X 14'± MOD. RIP RAP SPLASH PAD AT FE #2 OUTLET.
- 9 - DETENTION BASIN OUTLET STRUCTURE (OS #1).
- 10 - PROP. STAKED HAYBALES AS / IF REQUIRED (TYP.).
- 11 - PROP. SILT FENCING (TYP.).
- 12 - 10'± X 10'± MOD. RIP RAP SPLASH PAD AT FE #3 OUTLET.
- 13 - PROP. DETENTION BASIN. BOT. EL. = 4.00, TOP OF POND EL. = 7.00, TOP OF BERM EL. = 8.00.
- 14 - 14'± X 14'± MOD. RIP RAP SPLASH PAD AT FE #1 OUTLET.
- 15 - PROP. STORM DRAINAGE PIPING (TYP.). SEE CHART LOCATED ON THIS SHEET FOR REQUIREMENTS (TYP.).
- 16 - TEMPORARY MATERIAL STOCKPILE AREA (TYP.). ACTUAL LOCATIONS TO BE DETERMINED BY THE SITE CONTRACTOR. MATERIAL STOCKPILES TO HAVE SILT FENCE INSTALLED AROUND THEM IF A POTENTIAL FOR EROSION EXISTS.
- 17 - PROP. GENERATOR LINE FOR BUILDING "A" SEPTIC PUMPS.
- 18 - PROP. GENERATOR LINE FOR BUILDING "A" SEPTIC PUMPS.
- 19 - PROP. PROPANE POWERED "EMERGENCY GENERATOR" FOR SEPTIC SYSTEM PUMPS.
- 20 - PROP. TRANSFORMER LOCATION FOR BUILDING "A". EXACT TYPE, SIZE AND LOCATION TO BE DETERMINED BY EVERSOURCE. CONTRACTOR TO INSTALL TRANSFORMER IN ACCORDANCE WITH ALL EVERSOURCE REQUIREMENTS (PAD, BOLLARDS, SETBACKS, ETC.).
- 21 - SEPTIC SYSTEM SOIL TESTING LOCATION (TYP.). SEE RESULTS ON SHEET SEP2 WITHIN THIS PLAN SET.
- 22 - PROP. PRIMARY SEPTIC SYSTEM AREA FOR BUILDING "B" (SYSTEM #4). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 23 - PROP. PROPANE SERVICE LATERAL FOR GENERATOR, EXACT SIZE, LOCATION AND DEPTH TO BE DETERMINED BY UTILITY COMPANY (TYP.).
- 24 - PROP. 100% CODE COMPLYING SEPTIC SYSTEM RESERVE AREA FOR BUILDING "B" (SYSTEM #4). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 25 - PROP. UNDERGROUND PROPANE TANK. EXACT SIZE, LOCATION AND DEPTH TO BE DETERMINED BY UTILITY COMPANY (TYP.). INSTALL CONC. BOLLARDS AS SHOWN.
- 26 - PROP. FIRE DEPT. KNOX BOX AND SIAMESE CONNECTIONS (TYP.). EXACT LOCATIONS TO BE DETERMINED WITH THE GUILFORD FIRE DEPT.
- 27 - LOAM (6" MIN.), SEED AND HAY ALL DISTURBED AREAS AS SOON AS PRACTICAL (TYP.).
- 28 - PROP. 100% CODE COMPLYING SEPTIC SYSTEM RESERVE AREA FOR BUILDING "B" (SYSTEM #3). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 29 - PROP. 100% CODE COMPLYING SEPTIC SYSTEM RESERVE AREA FOR BUILDING "A" (SYSTEM #2). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 30 - PROP. PRIMARY SEPTIC SYSTEM AREA FOR BUILDING "B" (SYSTEM #3). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 31 - PROP. SEPTIC SYSTEM APPURTENANCE (SEPTIC TANK, PUMP CHAMBER, PIPING, D-BOX, FORCE MAIN, ETC.). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 32 - PROP. 100% CODE COMPLYING SEPTIC SYSTEM RESERVE AREA FOR BUILDING "A" (SYSTEM #1). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 33 - PROP. PRIMARY SEPTIC SYSTEM AREA FOR BUILDING "A" (SYSTEM #1). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 34 - PROP. PRIMARY SEPTIC SYSTEM AREA FOR BUILDING "A" (SYSTEM #2). SEE SPECIFICATIONS & DETAILS ON SHEETS SEP1 & SEP2.
- 35 - PROP. SWITCH VAULT LOCATION. EXACT TYPE, SIZE AND LOCATION TO BE DETERMINED BY EVERSOURCE. CONTRACTOR TO INSTALL SWITCH VAULT IN ACCORDANCE WITH ALL EVERSOURCE REQUIREMENTS (PAD, BOLLARDS, SETBACKS, ETC.).
- 36 - PROP. CONSTRUCTION ENTRANCE (TYP.) (12'W X 50'L). SEE DETAIL ON SHEET D1.
- 37 - PROP. "DOMESTIC" WATER SERVICE LATERAL (TYP.). EXACT SIZE, LOCATION AND DEPTH TO BE DETERMINED BY UTILITY COMPANY (TYP.). TOWN PERMIT REQUIRED FOR WORK IN TOWN ROAD. WATER SERVICES WILL REQUIRE NEW WATER MAIN TAPS.
- 38 - PROP. "FIRE" WATER SERVICE LATERAL (TYP.). EXACT SIZE, LOCATION AND DEPTH TO BE DETERMINED BY UTILITY COMPANY (TYP.). TOWN PERMIT REQUIRED FOR WORK IN TOWN ROAD. WATER SERVICES WILL REQUIRE NEW WATER MAIN TAPS.
- 39 - PROP. ELEC. SERVICE LATERAL FOR BUILDINGS. EXACT SIZE, LOCATION AND DEPTH TO BE DETERMINED BY UTILITY COMPANY (TYP.). TOWN PERMIT REQUIRED FOR WORK IN TOWN ROAD.
- 40 - PROP. UNDERGROUND UTILITIES FOR BUILDING "B" (TYP.). EXACT SIZE, LOCATION AND DEPTH TO BE DETERMINED BY EACH UTILITY COMPANY (TYP.).
- 41 - PROP. NEW TELEPHONE POLE BY OTHERS (TYP.).
- 42 - PROP. UNDERGROUND UTILITIES FOR BUILDING "A" (TYP.). EXACT SIZE, LOCATION AND DEPTH TO BE DETERMINED BY EACH UTILITY COMPANY (TYP.).

GRADING / EARTH REMOVAL NOTE

The Contractor shall be responsible for conducting all grading and earth removal activities in compliance with the Town of Guilford Zoning Regulations.

ROOF LEADER / DOWN SPOUT NOTE

All proposed roof leaders and downspouts to be connected to the proposed storm drainage system. See locations shown on this sheet. Inverts to be determined by Site Contractor in the field.

STAKEOUT NOTE

The location of all proposed improvements shown herein shall be staked as directed by the design engineer. A licensed land surveyor shall perform the stakeout. All storm and septic components shall be staked. Proper off-set distances in-order for the Contractor to install the improvements shall be adhered to. No Contractor field measurements permitted.

STORM SEWER STRUCTURE SCHEDULE

DESCRIPTION	HOOD	T.F./RW EL.	N. INV.	E. INV.	S. INV.	W. INV.
CB #1	DOUBLE, TYPE "CL"	YES	14.00	—	9.50	9.70
CB #2	DOUBLE, TYPE "CL"	YES	14.00	10.75	—	—
CB #3	DOUBLE, TYPE "CL"	YES	8.60	12" (N) 7.80	7.30	—
MH #1	SINGLE, TYPE "C"	—	11.25	—	7.75	7.75
MH #2	SINGLE, TYPE "C"	—	14.20	—	8.35	8.35
MH #3	SINGLE, TYPE "C"	—	8.60	6" (N) 7.80	7.00	6.75
FE #1	SINGLE, TYPE "C"	—	—	—	—	6.50
FE #2	SINGLE, TYPE "C"	—	—	—	—	6.50
FE #3	SINGLE, TYPE "C"	—	—	—	—	5.00

CATCH BASIN SUMP NOTE

All catch basin sumps are to be four (4) feet deep for sediment collection.

STORM SEWER PIPE SCHEDULE

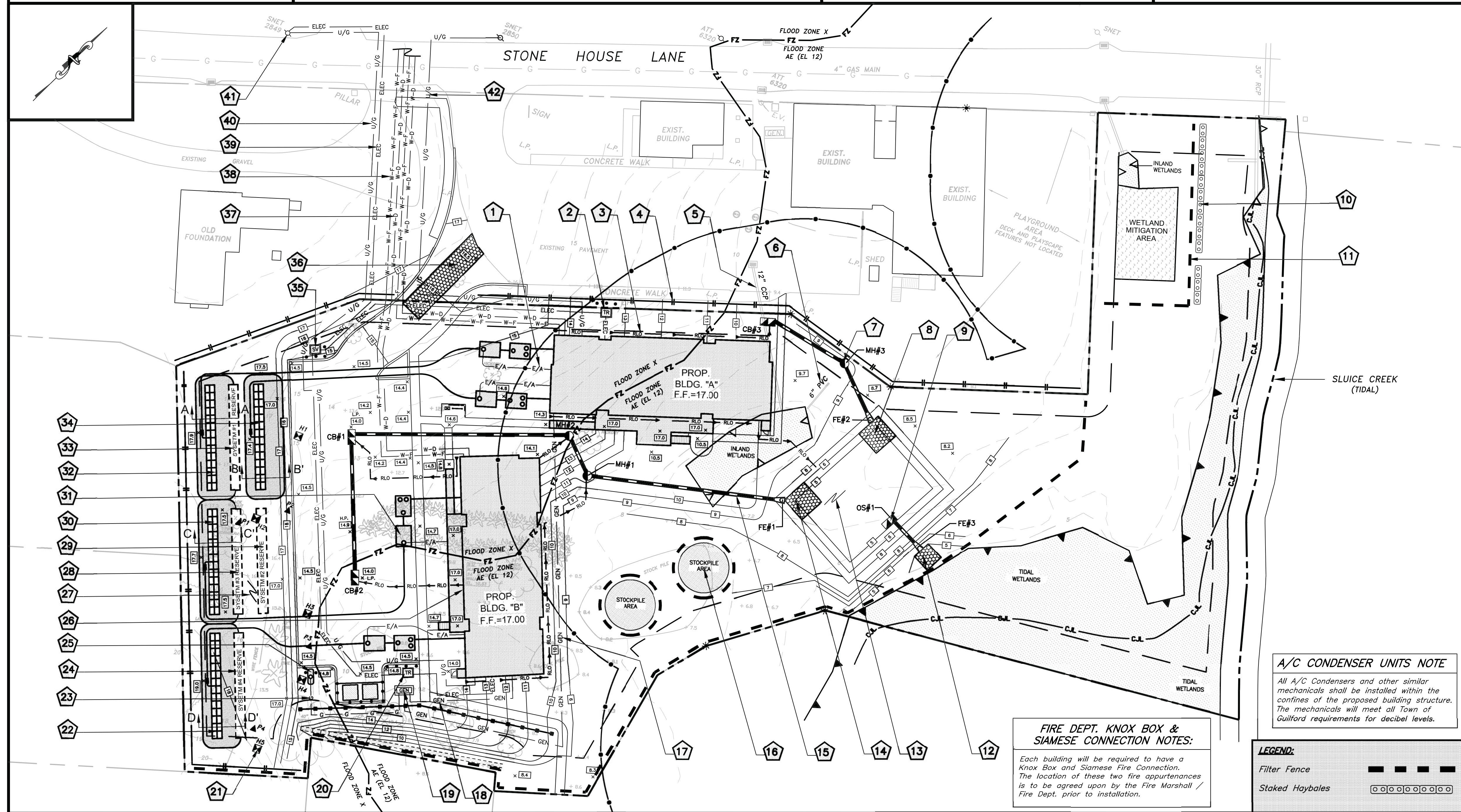
DESCRIPTION	PIPE DIA.	TYPE	LENGTH	SLOPE
CB #2 TO CB #1	15"	HDPP, N12	70 L.F.	S=1.50%
CB #1 TO MH #2	18"	HDPP, N12	115 L.F.	S=1.00%
MH #2 TO MH #1	18"	HDPP, N12	25 L.F.	S=2.40%
MH #1 TO FE #1	18"	HDPP, N12	107 L.F.	S=1.15%
CB #3 TO MH #3	12"	HDPP, N12	30 L.F.	S=1.00%
MH #3 TO FE #2	12"	HDPP, N12	23 L.F.	S=1.10%
OS #1 TO FE #3	24"	HDPP, N12	20 L.F.	S=0.00%

PIPE SCHEDULE

DESCRIPTION	PIPE DIA.	TYPE
ROOF LEADER	8"	ASTM D 3034, SDR 35 - SOLID
STORM DRAINAGE	15", 18", 24"	HDPP, N12

UTILITY EXCAVATION / PIPE NOTES

Tight pipe with gasketed joints to be used within 25' of all septic system components. Excavations within 5'-25' from systems shall not be backfilled with free draining material.



A/C CONDENSER UNITS NOTE

All A/C Condensers and other similar mechanicals shall be installed within the confines of the proposed building structure. The mechanicals will meet all Town of Guilford requirements for decibel levels.

FIRE DEPT. KNOX BOX & SIAMESE CONNECTION NOTES:

Each building will be required to have a Knox Box and Siamese Fire Connection. The location of these two fire appurtenances is to be agreed upon by the Fire Marshal / Fire Dept. prior to installation.

LEGEND:

Filter Fence
Staked Haybales

OWNER:

TOWN OF GUILFORD
ATTN: MATTHEW T. HOEY III
#31 PARK STREET
GUILFORD, CT 06443
(203) 453-8015

APPLICANT:

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CONTRACTOR REVIEW NOTE

The Contractor / Builder is to verify all applicable Code and installation requirements. Any discrepancies (pipe slopes, inverts, setbacks, computations, etc.) shall be brought to the design engineers attention immediately.

APPROVAL SET
NOT FOR CONSTRUCTION

NO.	DATE	REVISIONS



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Michael P. Harkin P.E. #22625



SITE DEVELOPMENT PLAN

"WOODRUFF PROPERTY
HOUSING DEVELOPMENT"

Prepared for
Town of Guilford
#45 Stone House Lane - Map: 33 Lot: 15
Guilford, Connecticut

DRAWING SCALE: 1"=30'

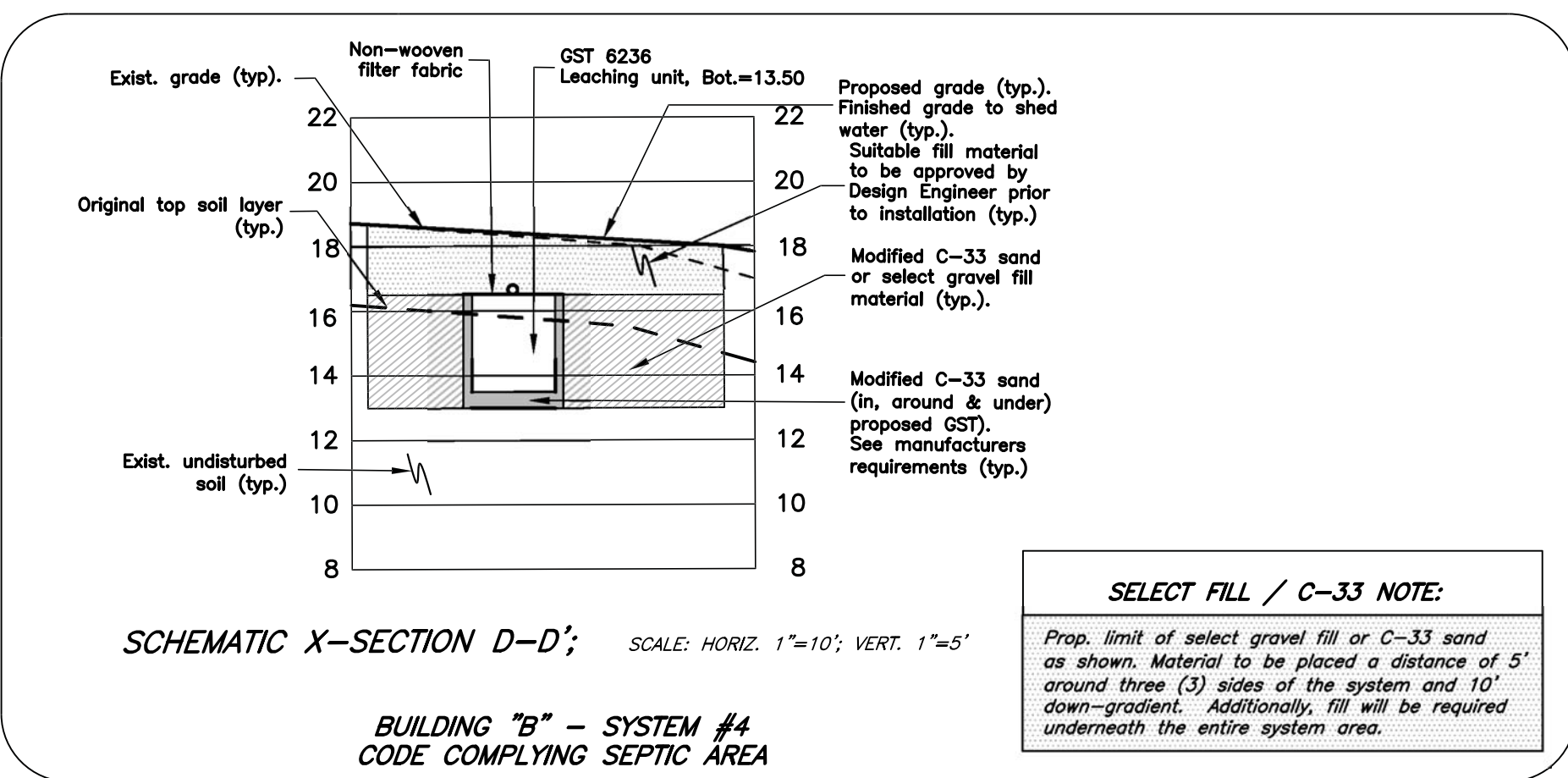
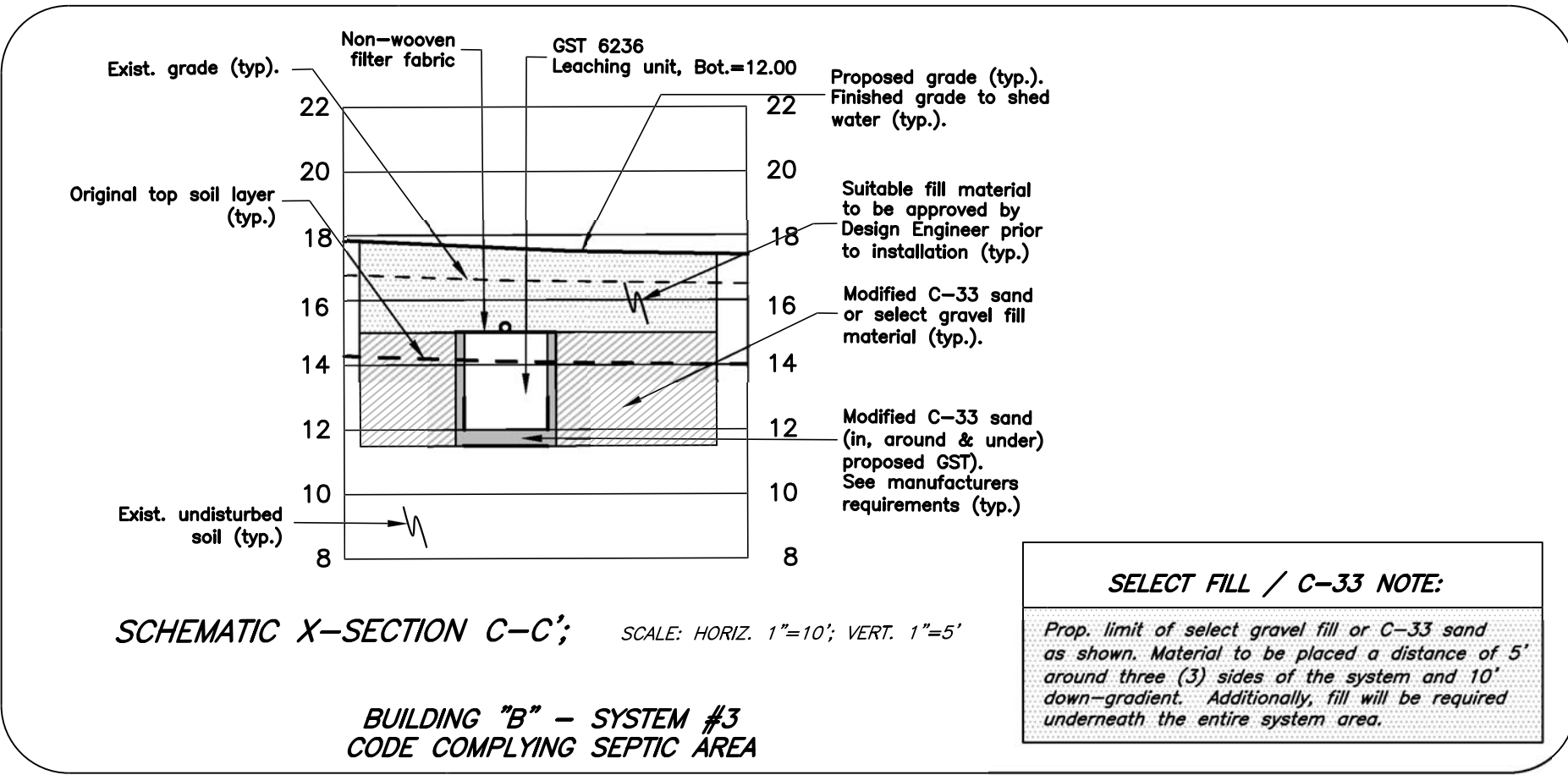
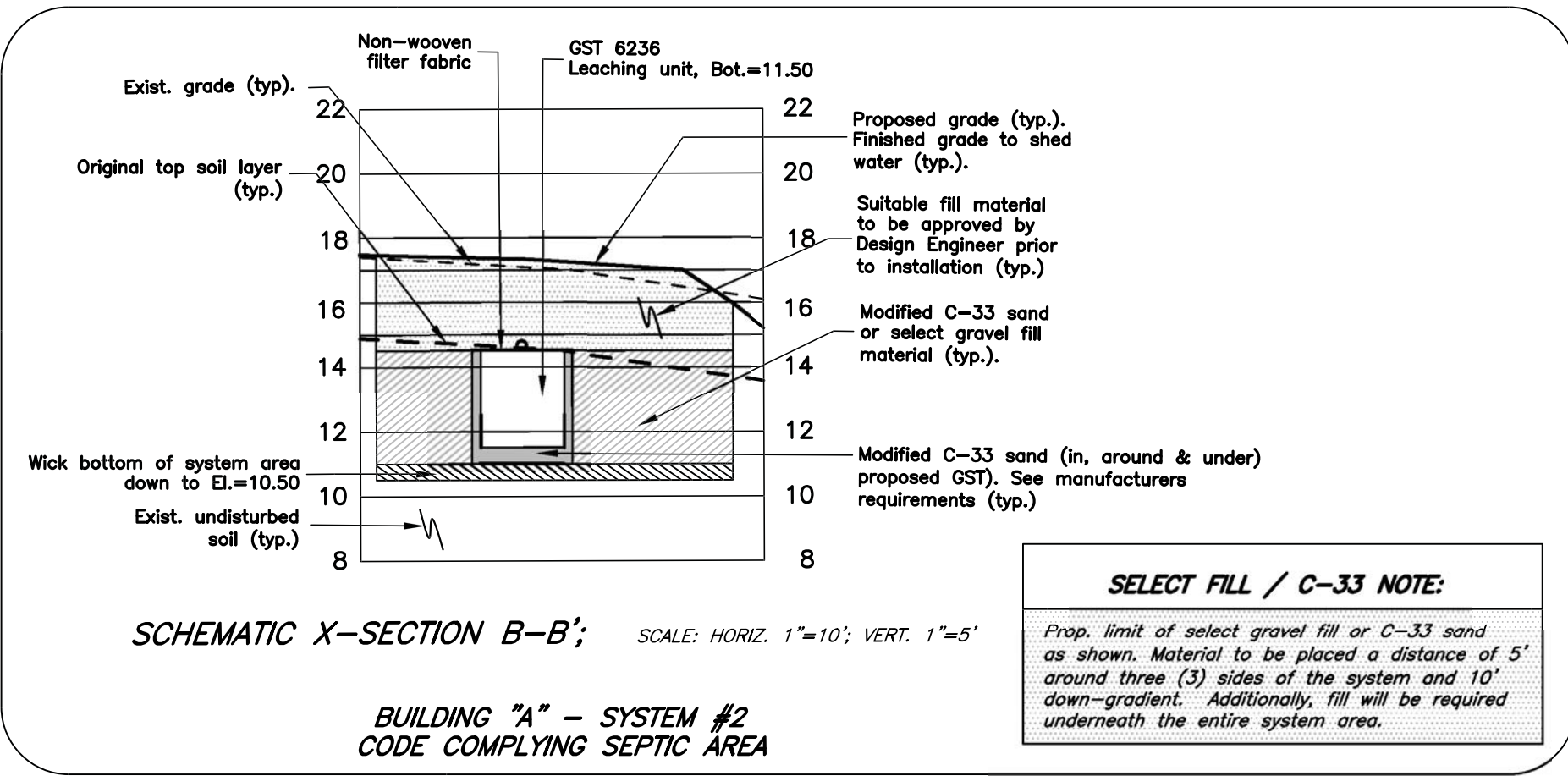
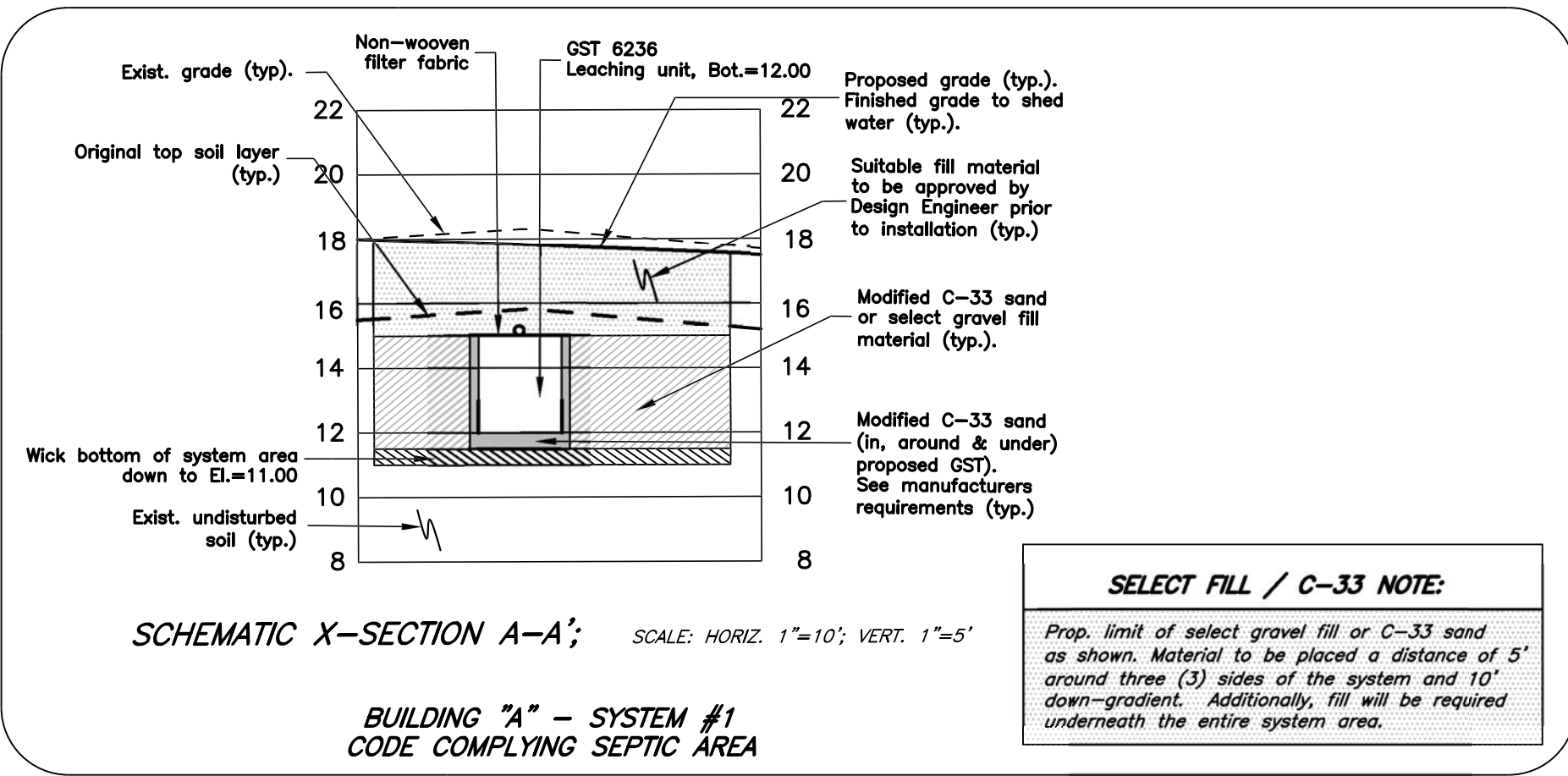
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HARKIN ENGINEERING, LLC

CIVIL ENGINEERING CONSULTING

78 Wolf Hollow Lane - Killingworth, CT 06419 - Tel. (860) 663-4248

JOB NO. 23-05 DRAWN BY: M.P.H. DATE: 4/1/25 SHEET NO. SD1



BUILDING "A" - 8 UNITS (18 BEDROOMS TOTAL)

BUILDING "A" - SYSTEM #1 CODE COMPLYING SEPTIC AREA (9 BEDROOMS)

DESIGN CRITERIA:

1. DESIGN FLOW CALCULATIONS:

Required Effective Leaching Area:
A 9 (9) bedroom residential septic system with a percolation rate of less than 10.1 mins. per inch requires the following effective leaching area:
First, 3 bedrooms = 495 s.f.
Each additional bedroom = 137.5 s.f. (multi-family)
6 bedrooms x 137.5 = 825 s.f.
495 s.f. + 825 s.f. = 1,320 s.f.
Total Effective Leaching Area Required: 1,320 s.f.

2. SIZE OF SYSTEM BY DESIGN:

Geomatrix (GST 6236) Leaching Unit = 26.2 s.f./l.f.
56 l.f. x 26.2 s.f./l.f. = 1,467 s.f.
1,467 s.f. Proposed > 1,320 s.f. Required

MINIMUM LEACHING SYSTEM SPREAD (MLSS)

Pursuant to the Hydraulic Factor (H.F.) Table: Restrictive layer greater than 60" MLSS need not apply.

SEPTIC SYSTEM PROPOSED INVERT ELEVATIONS

DESCRIPTION	PROPOSED
Building outlet	12.50
Tank inlet	12.00
Tank outlet	11.75
Pump Chamber inlet	11.50
Pump Chamber outlet	11.25
Baffled D-Box inlet	15.35
Baffled D-Box outlet	15.25
GST flow-line	15.00
GST bottom	12.00

Finished Grade Over System = 17.90
Maximum Bottom Elev. = 9.90 (8')
Proposed Bottom Elev. = 12.00

SEPTIC SYSTEM COMPONENTS:

- A - Bldg. Invert (out) = 12.50
B - 13 l.f., 4" solid PVC (ASTM D 1785, Sch 40) @ S=3.85%
C - 3,000 gal., 2 compartment septic tank w/ outlet filter. Provide access M.H. with C.I. rim & cover to finished grade. Install "Secondary Safety Lid" as / if required.
D - 5 l.f., 4" solid PVC (ASTM D 1785, Sch 40) @ S=5.00%
E - 3,000 gal. conc., pump chamber with "single" submersible pump and high level alarm. Chamber to have 24 hr. emergency storage capacity to handle at least the daily design. 1/8" weep hole to be drilled into outlet pipe in pump chamber in order to allow for back draining. Provide access M.H. with C.I. rim & cover to finished grade. Install "Secondary Safety Lid" as / if required.
F - 180± l.f., 1 1/2" dia. play. flexible force main (ASTM 2239).
G - Baffled D-Box. (In)=15.35, D-Box (Out)=15.25 Top to be weighted.
H - Distribution pipe (ASTM D 1785, Sch 40).
I - 56 l.f. of GST 6236 leaching units. Finished grade over system to shed water. A min. of one (1) inspection port shall be installed over the prop. septic system and shall have an access M.H. with C.I. frame and cover to grade (typ.). Bot. of System = 12.00
J - Prop. 100% Reserve Area (56 l.f. of GST 6236 leaching units).

BUILDING "A" - SYSTEM #2 CODE COMPLYING SEPTIC AREA (9 BEDROOMS)

DESIGN CRITERIA:

1. DESIGN FLOW CALCULATIONS:

Required Effective Leaching Area:
A 9 (9) bedroom residential septic system with a percolation rate of less than 10.1 mins. per inch requires the following effective leaching area:
First, 3 bedrooms = 495 s.f.
Each additional bedroom = 137.5 s.f. (multi-family)
6 bedrooms x 137.5 = 825 s.f.
495 s.f. + 825 s.f. = 1,320 s.f.
Total Effective Leaching Area Required: 1,320 s.f.

2. SIZE OF SYSTEM BY DESIGN:

Geomatrix (GST 6236) Leaching Unit = 26.2 s.f./l.f.
56 l.f. x 26.2 s.f./l.f. = 1,467 s.f.
1,467 s.f. Proposed > 1,320 s.f. Required

MINIMUM LEACHING SYSTEM SPREAD (MLSS)

Pursuant to the Hydraulic Factor (H.F.) Table: Restrictive layer greater than 60" MLSS need not apply.

SEPTIC SYSTEM PROPOSED INVERT ELEVATIONS

DESCRIPTION	PROPOSED
Building outlet	12.50
Tank inlet	12.00
Tank outlet	11.75
Pump Chamber inlet	11.50
Pump Chamber outlet	11.25
Baffled D-Box inlet	14.85
Baffled D-Box outlet	14.75
GST flow-line	14.50
GST bottom	11.50

Finished Grade Over System = 17.20
Maximum Bottom Elev. = 9.20 (8')
Proposed Bottom Elev. = 11.50

SEPTIC SYSTEM COMPONENTS:

- A - Bldg. Invert (out) = 12.50
B - 13 l.f., 4" solid PVC (ASTM D 1785, Sch 40) @ S=3.85%
C - 3,000 gal., 2 compartment septic tank w/ outlet filter. Provide access M.H. with C.I. rim & cover to finished grade. Install "Secondary Safety Lid" as / if required.
D - 5 l.f., 4" solid PVC (ASTM D 1785, Sch 40) @ S=5.00%
E - 3,000 gal. conc., pump chamber with "single" submersible pump and high level alarm. Chamber to have 24 hr. emergency storage capacity to handle at least the daily design. 1/8" weep hole to be drilled into outlet pipe in pump chamber in order to allow for back draining. Provide access M.H. with C.I. rim & cover to finished grade. Install "Secondary Safety Lid" as / if required.
F - 150± l.f., 1 1/2" dia. play. flexible force main (ASTM 2239).
G - Baffled D-Box. (In)=14.85, D-Box (Out)=14.75 Top to be weighted.
H - Distribution pipe (ASTM D 1785, Sch 40).
I - 56 l.f. of GST 6236 leaching units. Finished grade over system to shed water. A min. of one (1) inspection port shall be installed over the prop. septic system and shall have an access M.H. with C.I. frame and cover to grade (typ.). Bot. of System = 11.50
J - Prop. 100% Reserve Area (56 l.f. of GST 6236 leaching units).

BUILDING "B" - 8 UNITS (18 BEDROOMS TOTAL)

BUILDING "B" - SYSTEM #3 CODE COMPLYING SEPTIC AREA (9 BEDROOMS)

DESIGN CRITERIA:

1. DESIGN FLOW CALCULATIONS:

Required Effective Leaching Area:
A 9 (9) bedroom residential septic system with a percolation rate of less than 10.1 mins. per inch requires the following effective leaching area:
First, 3 bedrooms = 495 s.f.
Each additional bedroom = 137.5 s.f. (multi-family)
6 bedrooms x 137.5 = 825 s.f.
495 s.f. + 825 s.f. = 1,320 s.f.
Total Effective Leaching Area Required: 1,320 s.f.

2. SIZE OF SYSTEM BY DESIGN:

Geomatrix (GST 6236) Leaching Unit = 26.2 s.f./l.f.
56 l.f. x 26.2 s.f./l.f. = 1,467 s.f.
1,467 s.f. Proposed > 1,320 s.f. Required

MINIMUM LEACHING SYSTEM SPREAD (MLSS)

Pursuant to the Hydraulic Factor (H.F.) Table: Restrictive layer greater than 60" MLSS need not apply.

SEPTIC SYSTEM PROPOSED INVERT ELEVATIONS

DESCRIPTION	PROPOSED
Building outlet	12.50
Tank inlet	11.75
Tank outlet	11.50
Pump Chamber inlet	11.25
Pump Chamber outlet	11.00
Baffled D-Box inlet	15.35
Baffled D-Box outlet	16.75
GST flow-line	15.00
GST bottom	12.00

Finished Grade Over System = 17.70
Maximum Bottom Elev. = 9.70 (8')
Proposed Bottom Elev. = 12.00

SEPTIC SYSTEM COMPONENTS:

- A - Bldg. Invert (out) = 12.50
B - 27 l.f., 4" solid PVC (ASTM D 1785, Sch 40) @ S=2.75%
C - 3,000 gal., 2 compartment septic tank w/ outlet filter. Provide access M.H. with C.I. rim & cover to finished grade. Install "Secondary Safety Lid" as / if required.
D - 5 l.f., 4" solid PVC (ASTM D 1785, Sch 40) @ S=5.00%
E - 3,000 gal. conc., pump chamber with "single" submersible pump and high level alarm. Chamber to have 24 hr. emergency storage capacity to handle at least the daily design. 1/8" weep hole to be drilled into outlet pipe in pump chamber in order to allow for back draining. Provide access M.H. with C.I. rim & cover to finished grade. Install "Secondary Safety Lid" as / if required.
F - 162± l.f., 1 1/2" dia. play. flexible force main (ASTM 2239).
G - Baffled D-Box. (In)=15.35, D-Box (Out)=16.75 Top to be weighted.
H - Distribution pipe (ASTM D 1785, Sch 40).
I - 56 l.f. of GST 6236 leaching units. Finished grade over system to shed water. A min. of one (1) inspection port shall be installed over the prop. septic system and shall have an access M.H. with C.I. frame and cover to grade (typ.). Bot. of System = 12.00
J - Prop. 100% Reserve Area (56 l.f. of GST 6236 leaching units).

BUILDING "B" - SYSTEM #4 CODE COMPLYING SEPTIC AREA (9 BEDROOMS)

DESIGN CRITERIA:

1. DESIGN FLOW CALCULATIONS:

Required Effective Leaching Area:
A 9 (9) bedroom residential septic system with a percolation rate of less than 10.1 mins. per inch requires the following effective leaching area:
First, 3 bedrooms = 495 s.f.
Each additional bedroom = 137.5 s.f. (multi-family)
6 bedrooms x 137.5 = 825 s.f.
495 s.f. + 825 s.f. = 1,320 s.f.
Total Effective Leaching Area Required: 1,320 s.f.

2. SIZE OF SYSTEM BY DESIGN:

Geomatrix (GST 6236) Leaching Unit = 26.2 s.f./l.f.
56 l.f. x 26.2 s.f./l.f. = 1,467 s.f.
1,467 s.f. Proposed > 1,320 s.f. Required

MINIMUM LEACHING SYSTEM SPREAD (MLSS)

Pursuant to the Hydraulic Factor (H.F.) Table: Restrictive layer greater than 60" MLSS need not apply.

SEPTIC SYSTEM PROPOSED INVERT ELEVATIONS

DESCRIPTION	PROPOSED
Building outlet	12.50
Tank inlet	11.75
Tank outlet	11.50
Pump Chamber inlet	11.25
Pump Chamber outlet	11.00
Baffled D-Box inlet	16.85
Baffled D-Box outlet	16.75
GST flow-line	16.50
GST bottom	13.50

Finished Grade Over System = 19.00
Maximum Bottom Elev. = 11.00 (8')
Proposed Bottom Elev. = 13.50

SEPTIC SYSTEM COMPONENTS:

- A - Bldg. Invert (out) = 12.50
B - 27 l.f., 4" solid PVC (ASTM D 1785, Sch 40) @ S=2.75%
C - 3,000 gal., 2 compartment septic tank w/ outlet filter. Provide access M.H. with C.I. rim & cover to finished grade. Install "Secondary Safety Lid" as / if required.
D - 5 l.f., 4" solid PVC (ASTM D 1785, Sch 40) @ S=5.00%
E - 3,000 gal. conc., pump chamber with "single" submersible pump and high level alarm. Chamber to have 24 hr. emergency storage capacity to handle at least the daily design. 1/8" weep hole to be drilled into outlet pipe in pump chamber in order to allow for back draining. Provide access M.H. with C.I. rim & cover to finished grade. Install "Secondary Safety Lid" as / if required.
F - 112± l.f., 1 1/2" dia. play. flexible force main (ASTM 2239).
G - Baffled D-Box. (In)=16.85, D-Box (Out)=16.75 Top to be weighted.
H - Distribution pipe (ASTM D 1785, Sch 40).
I - 56 l.f. of GST 6236 leaching units. Finished grade over system to shed water. A min. of one (1) inspection port shall be installed over the prop. septic system and shall have an access M.H. with C.I. frame and cover to grade (typ.). Bot. of System = 13.50
J - Prop. 100% Reserve Area (56 l.f. of GST 6236 leaching units).

MECHANICALS, INTERIOR DRAINS & A/C CONDENSER NOTE

All the building's mechanicals (A/C Condensers, etc.), and miscellaneous interior drains shall not be tied into the plumbing that leads to the building's septic system. All the above listed items must be tied into the piping that leads to the storm drainage system or a separate storage / drywell system for ground infiltration. A letter at the end of the project shall be provided by the Architect or MEP Engineer stating that the work has been installed as stated above. This letter will be required prior to the Health Dept. signing off on the Certificate to Discharge and / or the Certificate of Occupancy.

BUILDING PLUMBING NOTE

All the building's plumbing must be designed and installed so that the proper amount of stated units / bedrooms go to the correct septic system. An interior layout drawing showing / stating which units and bedrooms are connected to which septic system must be provided prior to the issuance of a Septic Permit to Install. A letter at the end of the project shall be provided by the Architect or MEP Engineer stating that the work has been installed as stated above. This letter will be required prior to the Health Dept. signing off on the Certificate to Discharge and / or the Certificate of Occupancy.

APPROVAL SET NOT FOR CONSTRUCTION

NO.	DATE	REVISIONS

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Michael P. Harkin P.E. #22625



SEPTIC SYSTEM NOTES & DETAILS 1

"WOODRUFF PROPERTY HOUSING DEVELOPMENT"

Prepared for
Town of Guilford
#45 Stone House Lane - Map: 33 Lot: 15
Guilford, Connecticut

DRAWING SCALE: As Noted

HARKIN ENGINEERING, LLC CIVIL ENGINEERING CONSULTING

78 Wolf Hollow Lane - Killingworth, CT 06419 - Tel. (860) 663-4248

JOB NO. 23-05 DRAWN BY: M.P.H. DATE: 4/1/25 SHEET NO. SEP1



ANDERSON SURVEYING LLC
1575 BOSTON POST ROAD
SUITE F
GUILFORD, CT 06437
TEL. (203) 453-5084

DEEP TEST DATA:

Soil Testing conducted by Harkin Engineering, LLC
(Michael P. Harkin, P.E.). Confirmed/witnessed by
Mr. Lee Archer, R.S., of the Guilford Health Department.

TEST PIT: #H1 (5/18/18)
0 - 28" Misc. suitable fill (sand and gravel)
28 - 30" Black ash layer
30 - 34" Topsoil (Original)
34 - 66" Orn-brm sand w/ loam
66 - 77" Orn-brm fine sand w/ silt
77 - 99" Brn medium coarse sand and gravel

Roots @ 72"
R.L. N/A
No Groundwater / No Ledger / No Mottles

TEST PIT: #H2 (5/18/18)
0 - 26" Suitable fill (sand and gravel)
26 - 33" Orn-brm sandy loam
33 - 97" Orn-brm med. coarse sand and gravel

Roots @ 55"
R.L. N/A
No Groundwater / No Ledger / No Mottles

TEST PIT: #H3 (5/18/18)
0 - 30" Suitable fill (sand and gravel)
30 - 39" Drk-brm sand and gravel
39 - 62" Orn-brm fine sand and gravel
62 - 116" Med. sand and silt w/ mica

Roots @ 72"
R.L. N/A
No Groundwater / No Ledger / No Mottles

TEST PIT: #H4 (5/18/18)
0 - 31" Suitable fill (sand and gravel)
31 - 34" Black ash layer
34 - 40" Original topsoil
40 - 55" Orn-brm sandy loam
55 - 107" Tan med. sand

Roots @ 70"
R.L. N/A
No Groundwater / No Ledger / No Mottles

TEST PIT: #H5 (5/18/18)
0 - 4" Topsoil, leaf litter
4 - 10" Orn-brm sandy loam
10 - 43" Brn med. coarse sand and gravel
43 - 65" Brn med. coarse sand
65 - 93" Light brn fine sand

Roots @ 58"
R.L. N/A
No Groundwater / No Ledger / No Mottles

PERCOLATION TEST DATA

Percolation Testing Performed by the office of
Harkin Engineering, LLC (Michael P. Harkin, P.E.).

Percolation Test: Perc #1 Date: 5/18/18
Depth = 18", Diameter = 7"
Pre-soak: 24 Hr.

Time	D.T.W.	Inc. Drop	Min./In.
12:00 pm	7"		
12:10 pm	11 1/2"	4 1/2"	2.22
12:20 pm	15 3/8"	3 7/8"	2.58
12:30 pm	18 7/8"	3 1/2"	2.85
12:40 pm	Dry		

Percolation Rate = 1" in 0.0 to 10.0 Minutes

Percolation Test: Perc #2 Date: 5/18/18
Depth = 18", Diameter = 7"
Pre-soak: 24 Hr.

Time	D.T.W.	Inc. Drop	Min./In.
11:55 am	7"		
12:05 pm	11 3/8"	4"	2.28
12:15 pm	15 1/2"	4 1/8"	2.42
12:25 pm	19 1/8"	3 5/8"	2.75
12:35 pm	Dry		

Percolation Rate = 1" in 0.0 to 10.0 Minutes

Percolation Test: Perc #3 Date: 5/18/18
Depth = 18", Diameter = 7"
Pre-soak: 24 Hr.

Time	D.T.W.	Inc. Drop	Min./In.
11:40 am	7"		
11:50 am	11"	4"	2.50
12:00 pm	14 1/4"	3 1/4"	3.07
12:10 pm	16 1/2"	2 1/4"	4.44
12:20 pm	18 1/8"	1 3/8"	7.27
12:45 pm	Dry		

Percolation Rate = 1" in 0.0 to 10.0 Minutes

Percolation Test: Perc #4 Date: 5/18/18
Depth = 18", Diameter = 7"
Pre-soak: 24 Hr.

Time	D.T.W.	Inc. Drop	Min./In.
11:00 am	7"		
11:10 am	11 1/8"	4 1/8"	2.42
11:20 am	14 5/8"	3 1/2"	2.85
11:30 am	17"	2 5/8"	4.21
11:40 am	18 7/8"	1 7/8"	5.33
11:50 am	Dry		

Percolation Rate = 1" in 0.0 to 10.0 Minutes

SOIL AIR NOTE

The GST septic system specified for this Medical / Office building project shall have Soil Air Systems installed as part of the system design. The Contractor is to contact Geomatrix, LLC at (860) 510-0730 to review all requirements associated with the Soil Air installation. Please note that the Soil Air manufacturer may add additional features to the leaching system designs (monitoring ports, Soil Air Blower, controller, phone line, system enclosure, etc.). The Soil Air System manufacturer shall specify the exact products to be used for each system.

AS-BUILT NOTE

A complete ENGINEERED as-built drawing, with tie-dimensions and elevations for all system components, is to be submitted to the Health Dept. prior to the issuance of a Certificate to Discharge. This as-built shall be performed by a licensed land surveyor under the direction of the Design Engineer.

UTILITY EXCAVATION / PIPE NOTES

Tight pipe with gasketed joints to be used within 25' of all septic system components. Excavations within 5'-25' from systems shall not be backfilled with free draining material.

PROPRIETARY SPECIFICATIONS

The proposed septic system installation shall meet all Proprietary Specifications. Refer to manufacturer's installation requirements prior to commencing work on the proposed system.

BENCHMARK NOTE:

A benchmark for the septic system work is to be installed at the project site by a licensed land surveyor. The benchmark shall be installed in a location as agreed upon by the site contractor and not less than 25' from the proposed septic systems.

PRE CONSTRUCTION MEETING NOTE

A mandatory pre-construction meeting shall be held prior to the commencement of construction activities on the system. The meeting shall be attended by the Contractor, Design Engineer and CRAHD officials.

CONTRACTOR REVIEW NOTE

The Contractor is to verify all applicable installation requirements. Any discrepancies (pipe slopes, inverts, setbacks, computations, etc.) shall be brought to the design engineers attention immediately.

SEPTIC TANK OUTLET FILTER

Septic tank outlet filters are to be capable of design flows greater than 2,000 GPD. Filters are to be Zabel Model A300-8 or approved equal.

SECONDARY SAFETY DEVICES NOTE

If a riser cover weighs less than 59 lbs., then the tank cover shall remain in place or a secondary safety lid or device shall be provided. Secondary safety lids or devices are recommended to be utilized for safety reasons even if the riser cover weighs more than 59 lbs. and the tank cover is removed.

BUILDING HEAT

The proposed buildings will be heated by "Electricity". No underground propane tanks or natural gas service laterals are to be installed for the buildings. An underground propane tank will be installed for the emergency generator for the septic system pumps only.

PROHIBITED DISCHARGES

"No" hot tubs, spas, garbage disposals, water systems or swimming pools shall be discharged into the proposed septic system.

STAKEOUT NOTE

The location of all the septic improvements shown hereon shall be staked as directed by the design engineer. A licensed land surveyor shall perform the stakeout. All septic components shall be staked for the system. Proper off-set distances in-order for the Contractor to install the improvements shall be adhered to.

SEPTIC DESIGN CONFLICT NOTE

There are "No" septic system design conflicts (wells, septic systems, or other potential sources of pollution) on adjacent properties.

REQUIRED FILL SAND MATERIAL (Modified C-33 Sand):

All Geomatrix installations require the use of Modified C-33 sand. Select fill, as described by the Connecticut Public Health code, cannot be used as a substitute. A sieve analysis for the installed sand must be provided to the local Health Department. Fill in area of the septic system shall be clean, bank-run sand meeting the following criteria:

Sieve	% Passing (wet)	% Passing (dry)
3/8	100%	100%
#4	95% - 100%	95% - 100%
#8	80% - 100%	80% - 100%
#16	50% - 80%	50% - 80%
#30	25% - 60%	25% - 60%
#60	5% - 30%	5% - 30%
#100	0% - 20%	0% - 5%
#200	0% - 5%	0% - 2.5%

REQUIRED GEOMATRIX SAND FILL MATERIAL

N.T.S.

Fill in area of the septic system shall be clean, bank-run sand or gravel meeting the following criteria:

- a. The fill shall not contain any material larger than three (3) inches.
b. Up to 45% of the dry weight of the representative sample may be retained on the #4 sieve (This is the gravel portion of the sample).
c. The material that passes the #4 sieve is then re-sieved and the sieve analysis started.
d. The remaining sample shall meet the following gradation criteria:
- | Sieve | % Passing |
|-------|----------------------------|
| #4 | 100% |
| #10 | 70% - 100% |
| #40 | 10% - 50% (See note below) |
| #100 | 0% - 20% |
| #200 | 0% - 5% |
- Note: 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% does not exceed 5%.

SEPTIC GRAVEL FILL MATERIAL

N.T.S.

CHECK JURISDICTION:

System Area #1:	9 Bedrooms = 9 x 150 GPD = 1,350 GPD
System Area #2:	9 Bedrooms = 9 x 150 GPD = 1,350 GPD
System Area #3:	9 Bedrooms = 9 x 150 GPD = 1,350 GPD
System Area #4:	9 Bedrooms = 9 x 150 GPD = 1,350 GPD
Total: 5,400 GPD	
7,500 GPD > 5,400 GPD therefore, Local Health Dept, (Town of Guilford & CT State Health Dept.)	

SEPTIC TANK CALCULATIONS

Bldg A System #1: 9 Bedrooms:

First 3 bedrooms = 1,250 gals (multi-family)
Each additional bedroom = 250 gals
6 bedrooms x 250 gal = 1,500 gals
1,500 gals + 1,250 gals = 2,750 gals
System #1 requires: 3,000 gal. tank (min.)

Bldg B System #3: 9 Bedrooms:

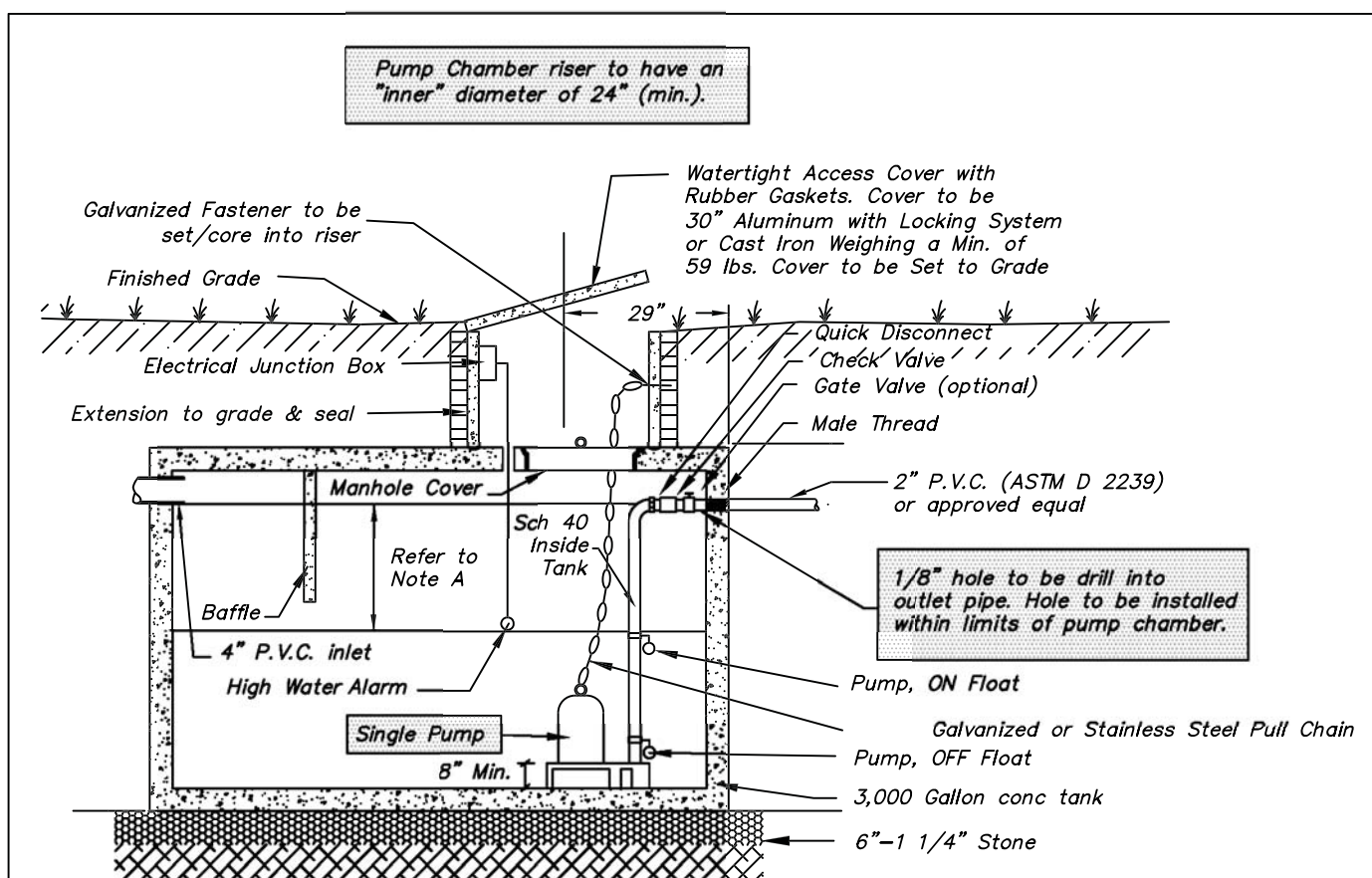
First 3 bedrooms = 1,250 gals (multi-family)
Each additional bedroom = 250 gals
6 bedrooms x 250 gal = 1,500 gals
1,500 gals + 1,250 gals = 2,750 gals
System #3 requires: 3,000 gal. tank (min.)

Bldg A System #2: 9 Bedrooms:

First 3 bedrooms = 1,250 gals (multi-family)
Each additional bedroom = 250 gals
6 bedrooms x 250 gal = 1,500 gals
1,500 gals + 1,250 gals = 2,750 gals
System #2 requires: 3,000 gal. tank (min.)

Bldg B System #4: 9 Bedrooms:

First 3 bedrooms = 1,250 gals (multi-family)
Each additional bedroom = 250 gals
6 bedrooms x 250 gal = 1,500 gals
1,500 gals + 1,250 gals = 2,750 gals
System #4 requires: 3,000 gal. tank (min.)

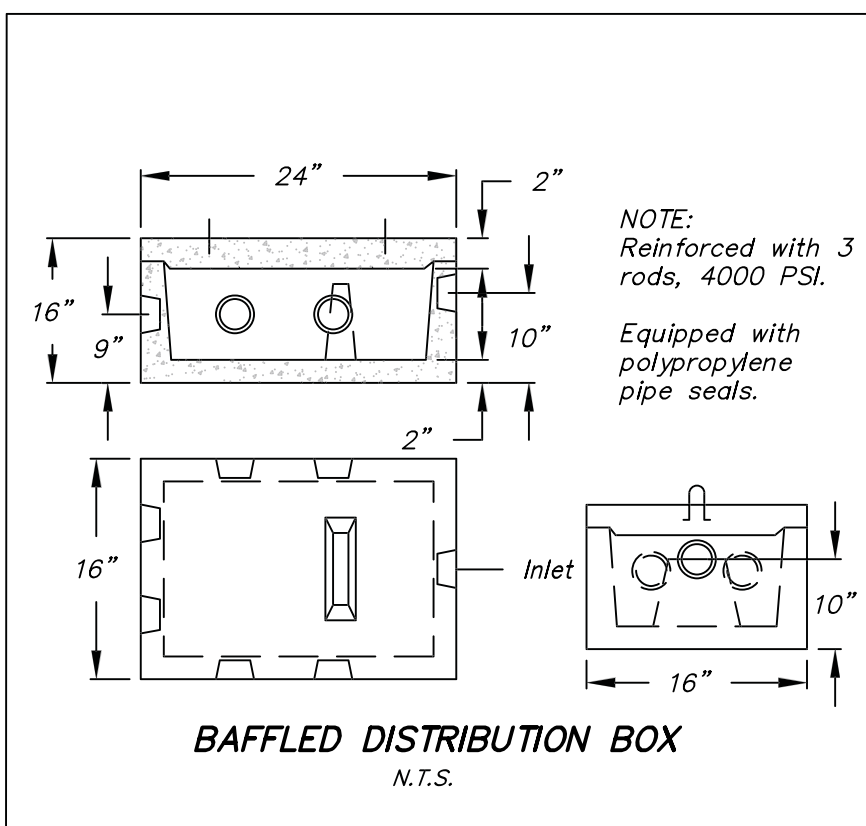


3,000 GAL. PUMP CHAMBER DETAIL (SINGLE PUMP)

N.T.S.

PUMP CHAMBER ELEC. & ALARM NOTES:

Elec. and alarm conduit for pump chamber as required (typ.). Pump chamber control and alarm panel location to be agreed upon by the Local Health Dept. prior to installation. All pumps to be connected to the emergency generator in case of loss of power events. Alarm for pump chamber to be visible.



BAFFLED DISTRIBUTION BOX

N.T.S.

EMERGENCY GENERATOR NOTE:

The pump chambers for Buildings A & B are to be hooked up to an "Emergency Generator / Power Source" in the event of a power outage.



ANDERSON SURVEYING LLC
1575 BOSTON POST ROAD
SUITE F
GUILFORD, CT 06437
TEL. (203) 453-5084

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Michael P. Harkin P.E. #22625



SEPTIC SYSTEM NOTES & DETAILS 2

"WOODRUFF PROPERTY HOUSING DEVELOPMENT"

Prepared for
Town of Guilford
#45 Stone House Lane - Map: 33 Lot: 15
Guilford, Connecticut

DRAWING SCALE: As Noted

HARKIN ENGINEERING, LLC

CIVIL ENGINEERING CONSULTING

78 Wolf Hollow Lane - Killingworth, CT 06419 - Tel. (860) 663-4248

JOB NO. 23-05 DRAWN BY: M.P.H. DATE: 4/1/25 SHEET NO. SEP2

