

EROSION CONTROL NOTES

a. At the time of application for a Building Permit, and prior to any land clearing or site preparation work for construction of improvements on any of the lots as approved herein, an Erosion and Sediment Control Plan shall be prepared in accordance with section 335 of the Town Zoning Law shall be submitted to the Planning Board for review and approval. No Building Permit shall be issued for any improvement until the Erosion and Sediment Control Plan has been approved.

b. The discharger, owner or operator shall at all times comply with the New York State SPDES General Permit (GP-02-01) requirements. A copy of any completed Notice of Intent submitted to the New York State Department of Environmental Conservation pursuant to GP-02-01 shall be submitted to the Planning Board.

Property Notes:

Owner:
Evangelical Free Church, Inc.
PO Box 157
Clinton Corners, NY 12514

Acreage (total): 48.42 acres

Tax Parcel IDs:
T. Washington: 6566-00-648851
T. Clinton: 6566-02-587843
T. Stanford: 6567-00-703007

Town of Washington zoning:
Zone: RL-5
Use: Community Service, Religious (DCPA)
Church, Educational Institution*
(special permit, site plan)

Lot size: min. 5 acre; 300 ft. wide;
Yards:
Front: 100' req'd; 444'+/- existing;
Sides: 75' req'd; 67'+/- existing;
Rear: 75' req'd; 130' proposed;
Max. Height: 2.5 stories/ 35 ft.; proposed 42 ft.
Max. Coverage: 10%; proposed ~1.6%
Min. Frontage: 300 ft./400 ft. per §320; 58 ft.+/- existing

Parking requirements:
Educational use: 1/each employee + 1/4 "adult" student
20 faculty + 20 "adult" students max.;
20 + 5 = 25 spaces required;
Assembly use: 1/each four seats; non-concurrent with school
250 seats max./4 = 62.5 spaces
60 spaces provided

TOWN OF WASHINGTON PLANNING BOARD
OWNER / APPLICANT SIGNATURES

The undersigned applicant(s) for the property and the undersigned owner(s) of the property shown herein certify that they are familiar with this map and its notes and its contents as stated hereon including all conditions of approval. The applicant and the owner understand their obligation to the Town to keep the premises as per plan approved by the Planning Board until a new or revised plan for development or use of the site is approved by the Planning Board. The applicant and the owner understand their obligation to the Town not to occupy the premises before a Certificate of Occupancy is issued by the Town for the occupancy as approved hereon.

[Signature]
Owner
Date: 6-17-23

[Signature]
Applicant
Date: June 19, 2023



TOWN OF WASHINGTON PLANNING BOARD
PLAN APPROVAL

The plan of development for the property as depicted hereon was approved by a majority of the members of the Town of Washington Planning Board at a meeting held on _____ and the conditions of Site Plan Approval have been satisfied or arrangements have been made to ensure the completion of any outstanding or incomplete conditions.

Chair _____
Date _____



REVISIONS		
No.	Description	Date
1-3	per Planning comments	11/21/22, 12/19/22 & 1/19/23
4	added surveyed wetland flags; revised parking & access	4/3/23
5	wetland plantings and no-mow strip	6/14/23

PROJECT NUMBER 569-01 November 1, 2022

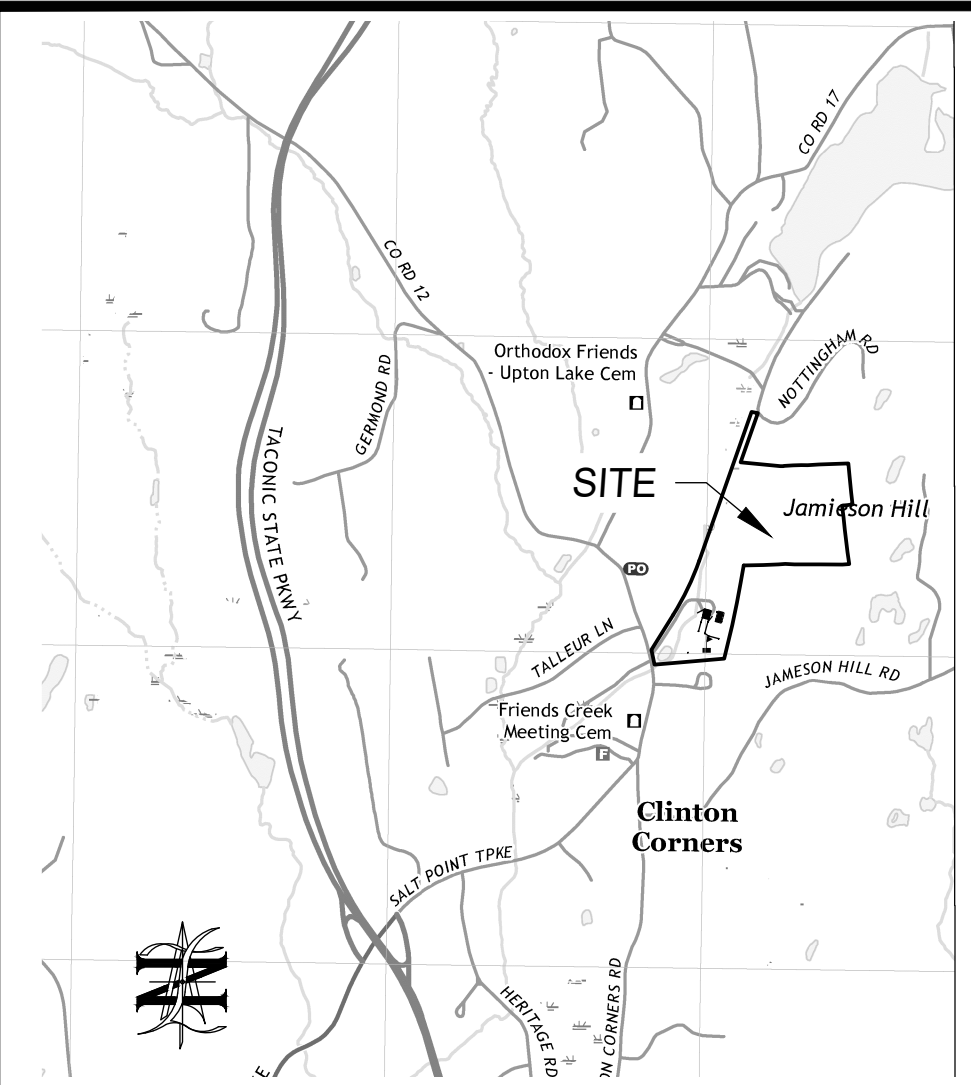
RED HOOK ENGINEERING, PC

75 PALATINE PARK RD.
GERMANTOWN, NY
(845) 758-5434

BOVEE CONSTRUCTION

SCHOOL BUILDING FOR
EVANGELICAL FREE CHURCH, INC.
20 SHEPHERDS WAY
TOWN OF WASHINGTON, NY

SITE PLAN
C-102



2 Location Map
 0 1,000' 2,000' 4,000' 8,000'
 One Inch SCALE



MAP NOTE
 This map is not a survey. It has been compiled from survey data and GIS data. Sources include:
 • A boundary survey map prepared by J. Charles Bookikos, PLS, dated 11/26/2003, rev. 1/15/2004;
 • A topographic survey map prepared by Brian Franks, PLS, dated 10/25/2000;
 • GIS topography, parcel bounds, structures and soils as provided by the Dutchess County Dept. of Planning

1 Property Map
 0 50' 100' 200' 400'
 One Inch SCALE



REVISIONS		
No.	Description	Date
1	T.o.Washington zoning	12/19/22

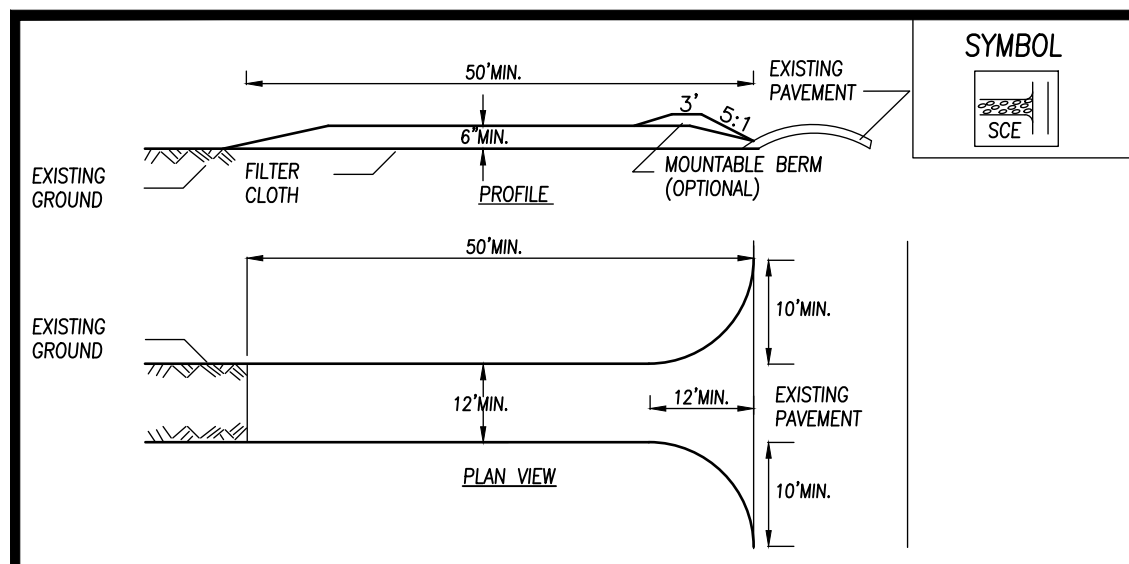
PROJECT NUMBER 569-01 November 21, 2022

RED HOOK ENGINEERING, PC
RE
 75 PALATINE PARK RD.
 GERMANTOWN, NY
 (845) 758-5434

BOVEE CONSTRUCTION

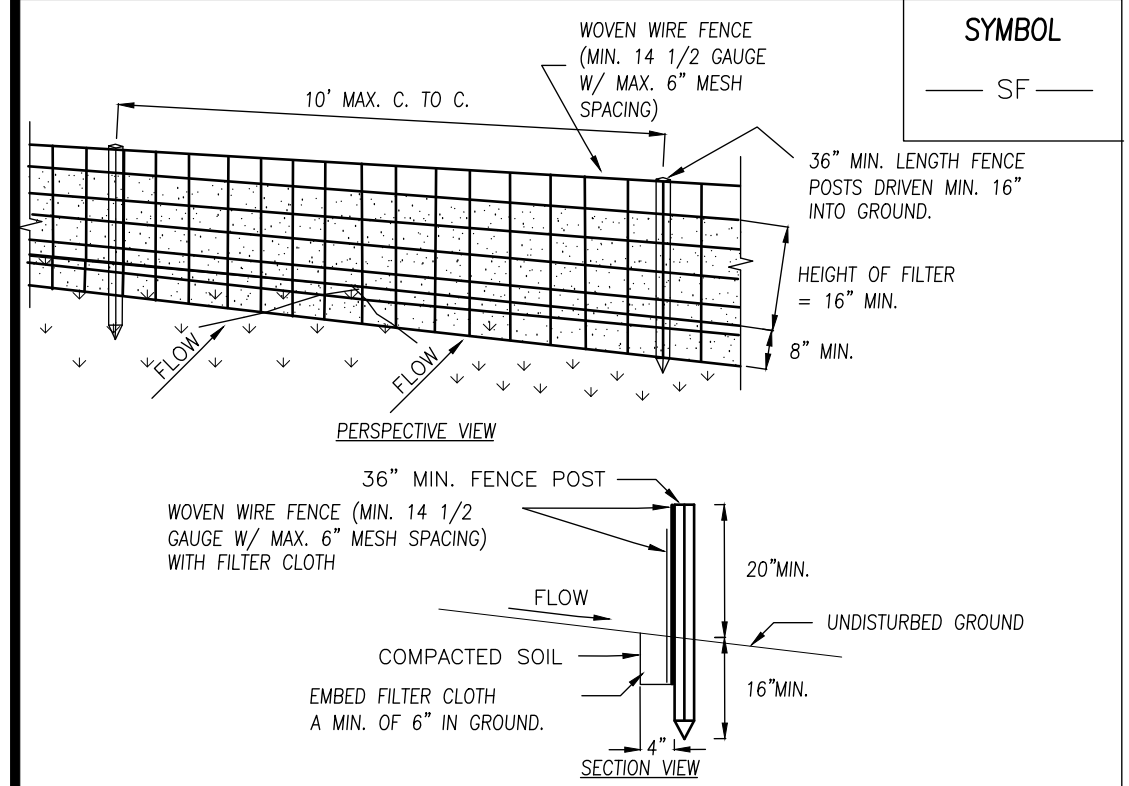
SCHOOL BUILDING FOR
 EVANGELICAL FREE CHURCH, INC.
 20 SHEPHERDS WAY
 TOWN OF WASHINGTON, NY

EXISTING
 CONDITIONS
C-101



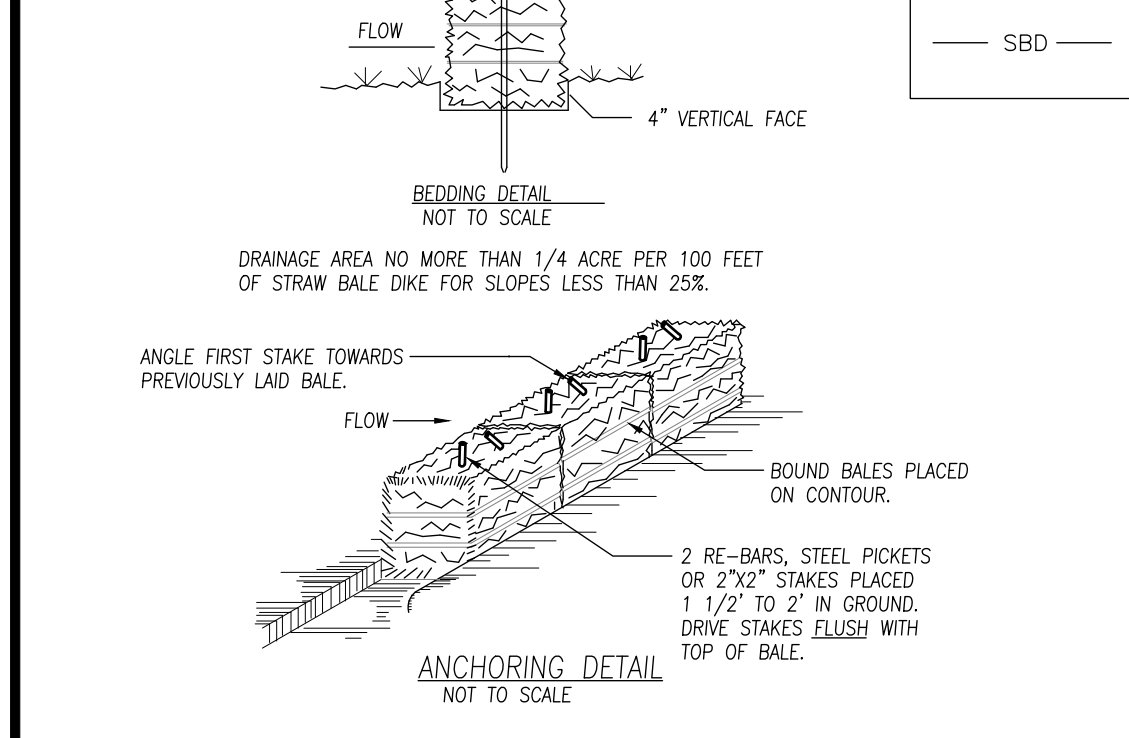
- ENTRANCE SPECIFICATIONS**
- Stone size – use 2" stone, or reclaimed or recycled concrete equivalent.
 - Length – not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 - Thickness – not less than six (6) inches.
 - Width – twelve (12) foot minimum, but not less than the full width at points where ingress or egress occurs. Twenty-four (24) foot if single entrance to site.
 - Filter cloth – will be placed over the entire area prior to placing of stone.
 - Surface water – all surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
 - Maintenance – the entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way, all sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - When washing is required, it shall be done on a area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE



- SILT FENCE SPECIFICATIONS**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 7" OR 10" TYPE OR HARDWOOD.
 - FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
 - PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

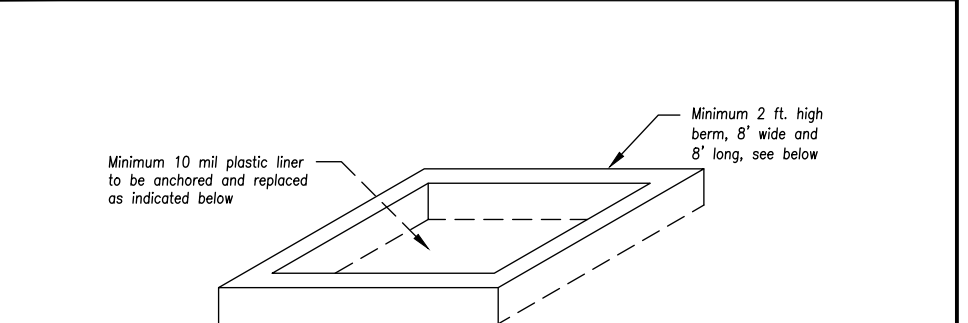
SILT FENCE



- DIKE SPECIFICATIONS**
- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 - INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

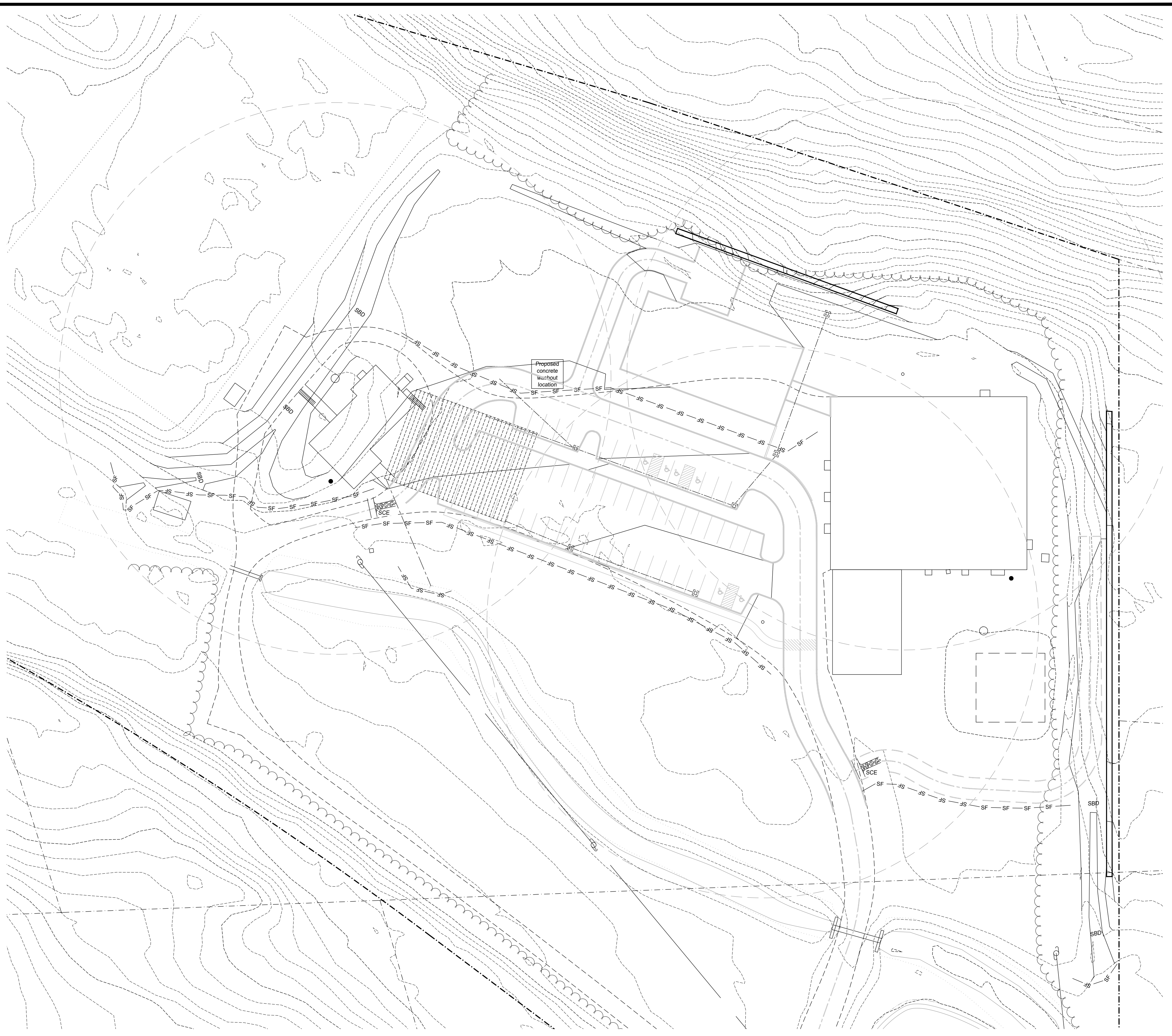
STRAW BALE DIKE

- EARTHWORK SPECIFICATIONS**
- All graded or disturbed areas including slopes shall be protected during clearing and construction in accordance with the approved erosion and sediment control plan until they are permanently stabilized.
 - All sediment control practices and measures shall be constructed, applied and maintained in accordance with the approved erosion and sediment control plan.
 - Topsoil required for the establishment of vegetation shall be stockpiled in amount necessary to complete finished grading of all exposed areas.
 - Areas to be filled shall be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material.
 - Areas which are to be topsoiled shall be scarified to a minimum depth of four inches prior to placement of topsoil.
 - All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc. Shall be compacted in accordance with local requirements or codes.
 - All fill shall be placed and compacted in layers not to exceed 9 inches in thickness.
 - Except for approved landfills, fill material shall be free of frozen particles, brush, roots, soil, or other foreign or other objectionable materials that would interfere with or prevent construction of satisfactory fills.
 - Frozen materials or soft, mucky or highly compressible materials shall not be incorporated in fills.
 - Fill shall not be placed on saturated or frozen surfaces.
 - All benches shall be kept free of sediment during all phases of development.
 - Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method.
 - All graded areas shall be permanently stabilized immediately following finished grading.
 - Stockpiles, borrow areas and spoil areas shall be shown on the plans and shall be subject to the provisions of this standard and specification.



CONCRETE WASHOUT SPECIFICATIONS

- CONCRETE WASHOUT SPECIFICATIONS**
- Capacity: The washout facility should be sized to contain solids, wash water, and runoff and to allow for the evaporation of the wash water and runoff. Wash water shall be estimated at 7 gallons per cubic yard and 50 gallons per bag of the concrete pump truck and/or discharging drum. The minimum size shall be 8 feet by 8 feet at the bottom and 2 feet deep. If excessive, the side slopes shall be 2 horizontal to 1 vertical.
 - Location: Locate the facility a minimum of 100 feet from drainage ditches, storm drain inlets, wetlands, streams and other surface waters. Prevent surface water from entering the structure except for the access road. Provide appropriate access with a gravel access road sloped down to the structure. Signs shall be placed to direct drivers to the facility after their load is discharged.
 - Liner: All washout facilities will be lined to prevent leaching of liquids into the ground. The liner shall be plastic sheeting with a minimum thickness of 10 mils with no holes or tears, and anchored beyond the top of the pit with an earthen berm, sand bags, stone, or other structural appearance except of the access point.
 - If pre-fabricated washouts are used they must ensure the capture and containment of the concrete wash and be sized based on the expected frequency of concrete pours. They shall be sited as noted in the location chart.
 - Maintenance
 - All concrete washout facilities shall be inspected daily. Damaged or leaking facilities shall be declassified and repaired or replaced immediately. Excess rainwater that has accumulated over hardened concrete should be pumped to a stabilized area, such as a grass filter strip.
 - Accumulated hardened material shall be removed when 75% of the storage capacity of the structure is filled. Any excess wash water shall be pumped into a containment vessel and properly disposed of off site.
 - Dispose of the hardened material off-site in a construction/demolition landfill. On-site disposal may be allowed if this has been approved and accepted as part of the project's SWPPP. In that case, the material should be recycled as aggregate, or buried and covered with a minimum of 2 feet of clean compacted earthfill that is permanently stabilized to prevent erosion.
 - The plastic liner shall be replaced with each cleaning of the washout facility.
 - Inspect the project site frequently to ensure that no concrete discharges are taking place in non-designated areas.



S.&E.C. Plan

0 20' 40' 80' 160'

One Inch SCALE



ARCHITECTURE & ENGINEERING CONSULTING, LLC

REVISIONS

No.	Description	Date
1	fencing added	12/19/22
2	entrance adjustments	1/19/23
3	coordination	6/14/23

PROJECT NUMBER 569-01 November 21, 2022

RED HOOK ENGINEERING, PC

RE

75 PALATINE PARK RD.
GERMANTOWN, NY
(845) 758-5434

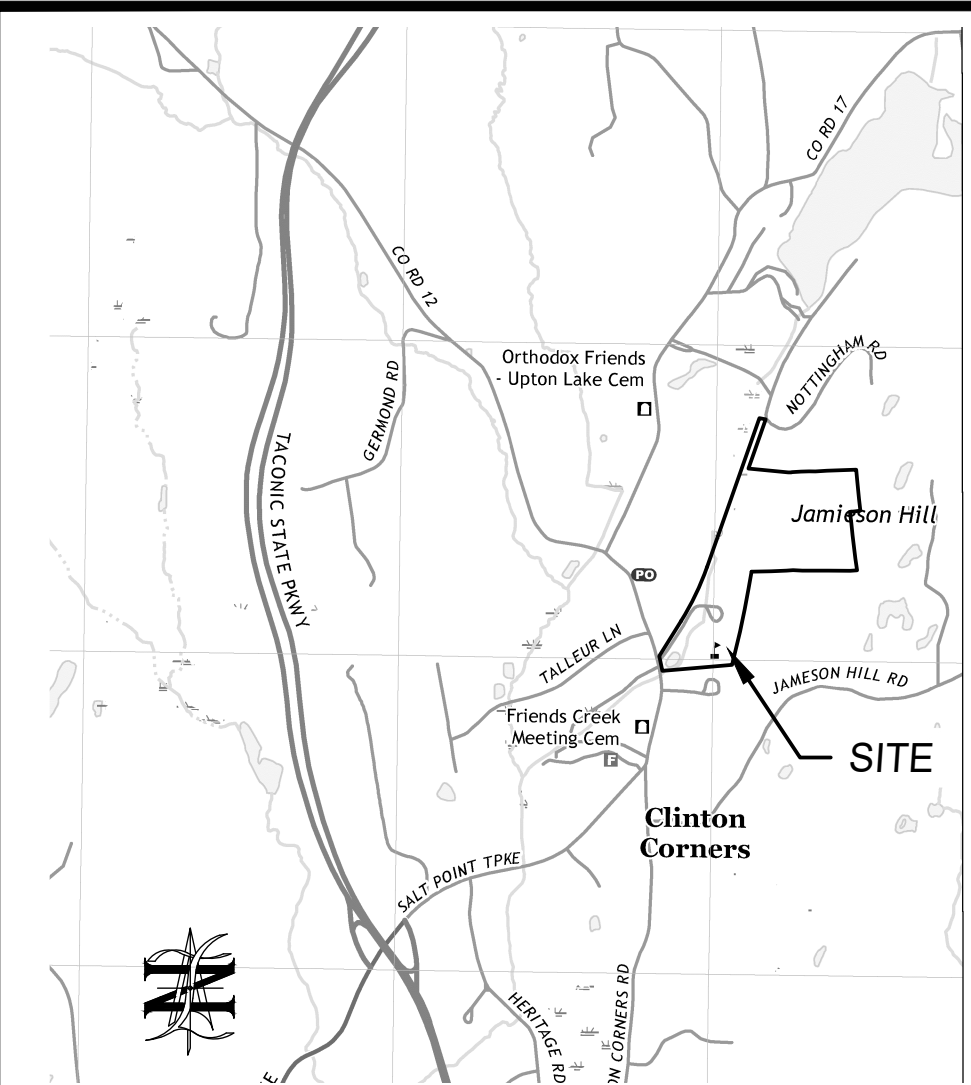
BOVEE CONSTRUCTION

**SCHOOL BUILDING FOR
EVANGELICAL FREE CHURCH, INC.**

20 SHEPHERDS WAY
TOWN OF WASHINGTON, NY

**SEDIMENT AND
EROSION CONTROL**

C-103



SCHEDULE OF INVERTS

Lowest Sewerable Invert:	301.8'
Building sewer @ 1/4" 12' +/- @ 0.25'	
Septic Tank inlet (3") outlet @ 0.25'	301.5'
effluent line @ 1/4" 4' +/- shown @ 0.04'	
Pump Chamber inlet:	301.2'
Distribution box inlet: (2") outlet @ 0.17'	302.7'
solid pipe 50' @ 1/4" @ 0.52'	
Lateral #:	302.0'

Standard Notes for Commercial Projects (Onsite Water Source & Sewage Disposal) - w/PWS

The design, construction and installation shall be in accordance with this plan and generally accepted standards in effect at the time of construction which include:

- "New York State Design Standards for Intermediate Sized Wastewater Treatment Systems", NYSDEC "Appendix 75-A: Waste Treatment - Individual Household Systems, New York State Sanitary Code."
- "Recommended Standards for Sewage Treatment Works, (Ten States)."
- "Recommended Standards for Water Works, (Ten States)."
- "New York State Department of Health and Dutchess County Environmental Health Services Division policies, procedures and standards."
- "Dutchess County and New York State Sanitary Codes."
- "Dutchess County Environmental Health Services Division Certificate of Approval letter."

This plan is approved as meeting the appropriate and applied technical standards, guidelines, policies and procedures for arrangement of sewage disposal and treatment and water supply facilities.

Upon completion of the facilities, the finished works shall be inspected, tested, and certified complete to the DCQH by the New York State registered design professional supervising construction. No part of the facilities shall be placed into service until accepted by the DC EHS.

Approval of any plan(s) or amendment thereto shall be valid for a period of 5 years from the date of approval. Following the expiration of said approval, the plan(s) shall be re-submitted to the Commissioner of Health for consideration for re-approval. Re-submission or revised submission of plans and/or associated documents shall be subject to compliance with the technical standards, guidelines, policies and procedures in effect at the time of the re-submission.

All wells and onsite wastewater treatment system existing or approved within 300 feet of the proposed wells and onsite wastewater treatment system are shown on this plan along with any other environmental hazards in the area that may affect the design and functional ability of the onsite wastewater treatment system and well.

It shall be demonstrated by the contractor to the DC EHS field inspector and/or design professional that the tank is sealed, watertight and acceptable for use. This shall require, at a minimum, the filling of the tank with water to observe if it is in fact sealed, watertight and acceptable for use. The tank must also meet any local testing requirements, including possible electrical and safety standards.

All proposed wells and service lines on this plan are accessible for installation and placement.

No cellar, footing, floor, garage, cooler or roof drains shall be discharged into the onsite wastewater treatment system or within 50 feet of any well.

All buildings shall be constructed at an elevation high enough to ensure gravity flow to the onsite wastewater treatment system.

There shall be no vehicular traffic over the onsite wastewater treatment system. Prior to construction, the area of the system shall be staked out and fenced off.

Onsite wastewater treatment systems shall not be installed in wet or frozen soil.

The DC EHS shall be notified prior to the backfilling of any completed onsite wastewater treatment system so that a final inspection may be performed.

The DC EHS shall be notified sixty days prior to any change in use; use changes may require re-approval by the DC EHS.

All required Erosion & Sediment Control and Stormwater Pollution Prevention Water Quality & Quantity Control structures, permanent and temporary, are shown on the plans.

Additional Notes for Fill Sections

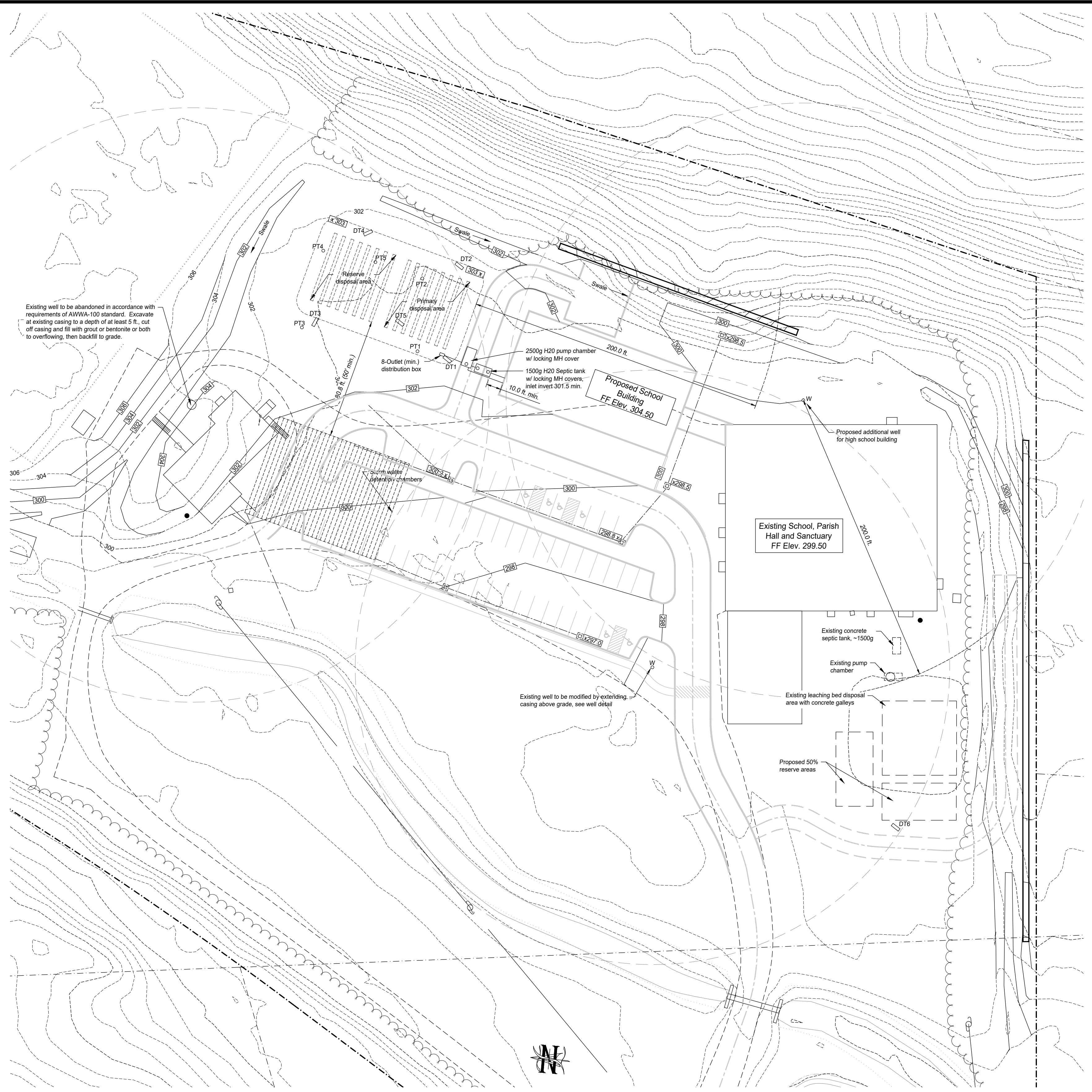
Septic Fill Specification: Sand and gravel fill, with a stabilized percolation rate which is less than or equivalent to the percolation rate of the virgin soil, and no more than 15 minutes per inch shall be used.

A New York State registered design professional shall certify in writing that the fill material is in the proper location, of the proper quantity and dimensions, and of proper quality. Proper quality must be demonstrated by stabilized percolation tests, the results of which shall be submitted with the engineer's certification.

Prior to the placement of the fill, the area of the OWTS shall be cleared of debris, and all brush, trees, or other vegetation cut to the level of the virgin ground. No topsoil shall be removed unless specifically indicated on the plans.

The undersigned owners of the property hereon state that they are familiar with this map, its contents and its legends and hereby consent to all said terms and conditions as stated hereon.

Owner _____ date _____



SOIL TEST RESULTS

PERCOLATION TESTS
Percolated on 11/22/2022 and tested on 11/23/2022 by T. Lynch according to the standard procedure.

Hole	Dpth	Soil	Soakd	Runs
PT-1	24"	Silty Loam & fine gravel	yes	1 2 3 4 5
			St	0 0 0 0 0
			Fin	5:41 6:11 6:12 6:6 6:8
PT-2	24"	Silty Loam & fine gravel	yes	0 0 0 0
			St	0 0 0 0
			Fin	1:42 1:45 1:44 2:2 2:2
PT-3	24"	Silty Loam & fine gravel	yes	0 0 0 0
			St	0 0 0 0
			Fin	2:32 2:32 2:32 3:3 3:3
PT-4	24"	Silty Loam & fine gravel	yes	0 0 0 0
			St	0 0 0 0
			Fin	0:32 0:32 0:31 0:36 1:1 1:1
PT-5	24"	Silty Loam & fine gravel	yes	0 0 0 0
			St	0 0 0 0
			Fin	4:52 4:56 5:03 5:02 5:5 5:5

DEEP TESTS:
By Timothy A. Lynch, P.E. and Ron Miller, P.E. S.P. H.E.
November 15, 2022

DT-#	Total depth	Soil	Remarks
DT-1	7.0 ft.	No rock or water	Total depth 7.0 ft. No rock. Water at 6.5 ft. 8" +/- topsoil; Course gravel w/ silty layer at 3.5 ft.
		5" +/- topsoil; mottling at 5.5 ft. Loamy, fine gravel 6"-24"; Very silty loam 24"-60"; Till at 60"-70"; Balance course gravel.	
DT-2	7.5 ft.	No rock or water	Total depth 7.5 ft. No rock. Water at 6.5 ft. 8" +/- topsoil; mottling at 4.5 ft. Loamy, fine gravel 6"-18"; Very silty loam 18"-36"; Gravel 36"-54"; Till at 54"-60"; Balance course gravel.
		6" +/- topsoil; mottling at 4.5 ft. Loamy, fine gravel 6"-30"; Fine Gravel 30"-78"; Till at 78"	
DT-3	8.0 ft.	No rock or water	Total depth 8.0 ft. No rock or water. 6" +/- topsoil; mottling at 6.5 ft. Loamy, fine gravel 6"-30"; Fine Gravel 30"-78"; Till at 78"
		6" +/- topsoil; mottling at 6.5 ft. Loamy, fine gravel 6"-20"; Fine Gravel 20"-80"; Till at 80"	
DT-4	8.8 ft.	No rock or water	Total depth 8.8 ft. No rock or water. 6" +/- topsoil; mottling at 6.7 ft. Loamy, fine gravel 6"-20"; Fine Gravel 20"-80"; Till at 80"
		6" +/- topsoil; mottling at 6.7 ft. Loamy, fine gravel 6"-20"; Fine Gravel 20"-80"; Till at 80"	
DT-5	7.3 ft.	No rock	Total depth 7.3 ft. No rock. Water at 7.3 ft. 6" +/- topsoil; mottling at 6.7 ft. Loamy, fine gravel 6"-20"; Fine Gravel 20"-80"; Till at 80"
		6" +/- topsoil; mottling at 6.7 ft. Loamy, fine gravel 6"-20"; Fine Gravel 20"-80"; Till at 80"	

O.W.T.S. DESIGN DATA

Design Basis: High School w/ no food service; 63 Students maximum at 12 gpd/st; design flow is 996 gpd.

PRIMARY DISPOSAL AREA - Design Percolation Rate is 6 minutes (6 to 7).

Per table 4b, the application rate is 1.0 gpd/sf and the minimum length of trench is therefore 996/1.0 = 498 L.F. 498 x 75% (for gravelless type system) = 374'. Install eight (8) lines of twelve units (8 x 12 x 4 ft. = 384 L.F.) for the proposed system.

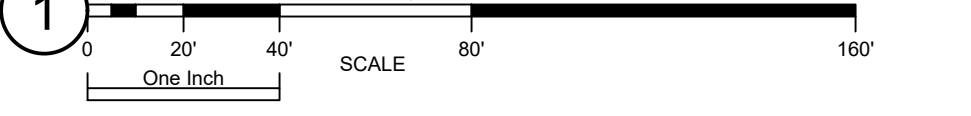
1.5 FEET (minimum) OF FILL REQUIRED - see indicated grading - 12" - 16" of Gravel, 6" of Topsoil

RESERVE AREA - Design same as above.

NOTE:
The OWTS has been designed to handle wastewater flow from a maximum three (3) bedroom dwelling and any increase in the number of bedrooms shall require submission of plans prepared by a NYSPE to DCQH for review and approval of additional sewage disposal and treatment facilities.

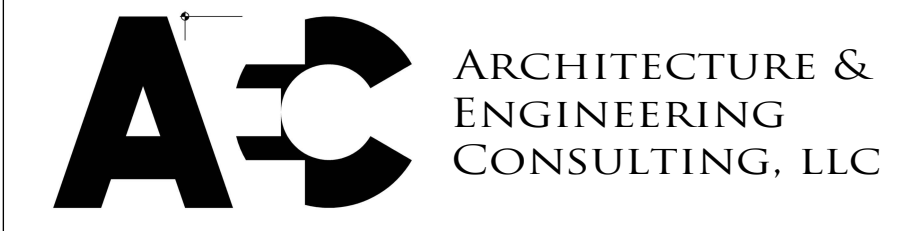


Water Supply and Wastewater Plan



NOTE: Refer to detail sheet C-501 and related sheets:
C-101 Existing Conditions
C-102 Site Plan
C-103 Erosion and Sediment Control Plan

DC DBCH



REVISIONS		
No.	Description	Date
-	-	-

PROJECT NUMBER 569-01 March 15, 2023

RED HOOK ENGINEERING, PC

75 PALATINE PARK RD.
GERMANTOWN, NY
(845) 758-5434

BOVEE CONSTRUCTION

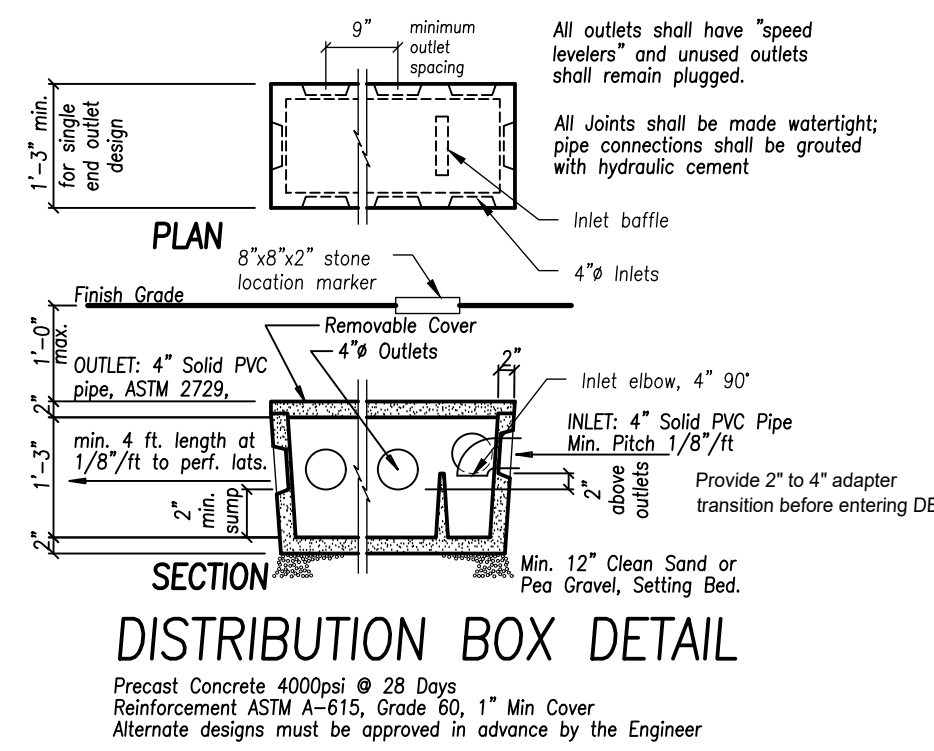
Tax Parcel IDs: T. Washington: 135889-6566-00-648951;
T. Clinton: 6566-02-587843; T. Stanford: 6567-00-703007

**SCHOOL BUILDING FOR
EVANGELICAL FREE CHURCH, INC.**

20 SHEPHERDS WAY
TOWN OF WASHINGTON, NY

**WATER SUPPLY AND
WASTEWATER DISPOSAL
PLAN & NOTES**

C-104



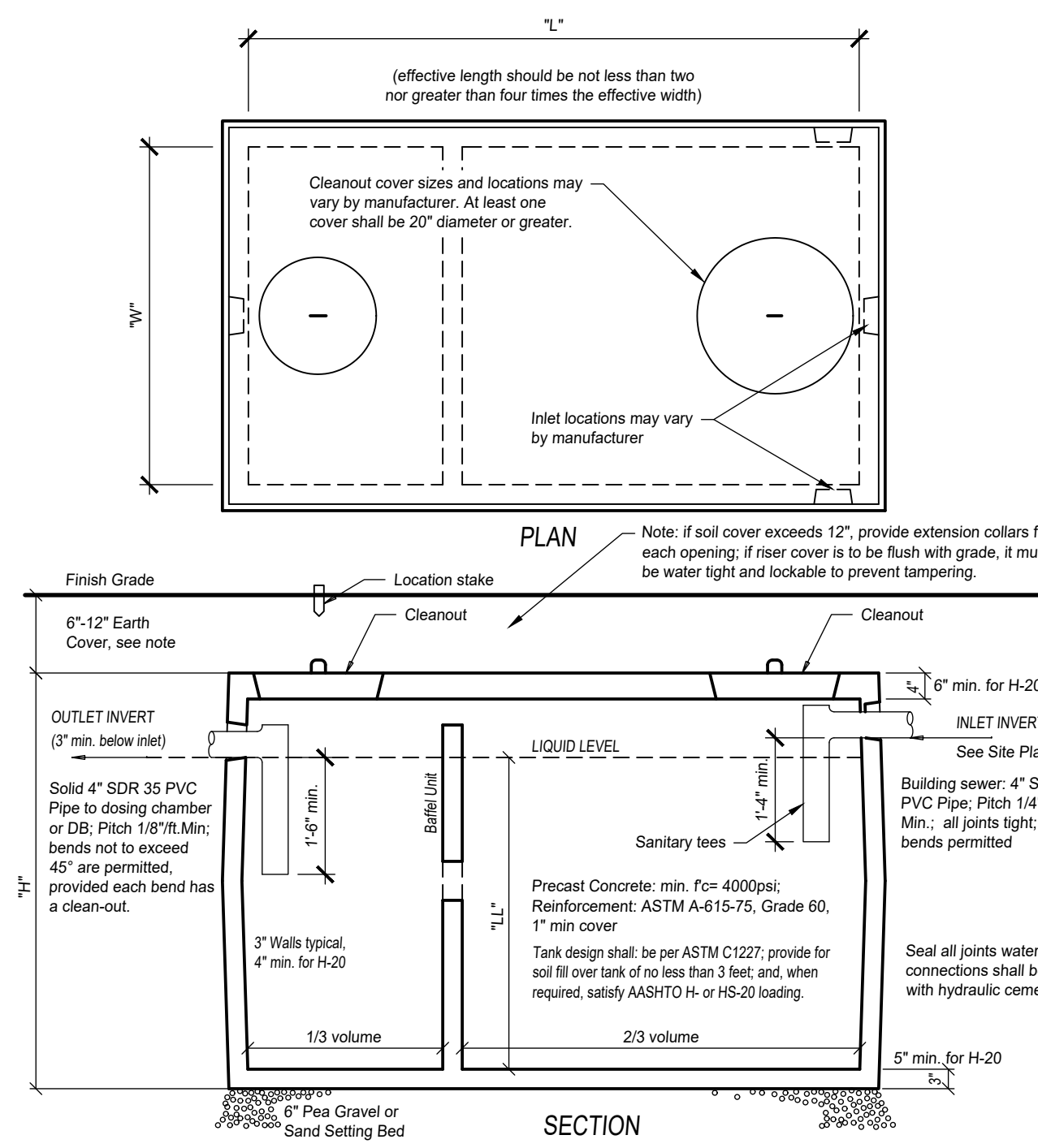
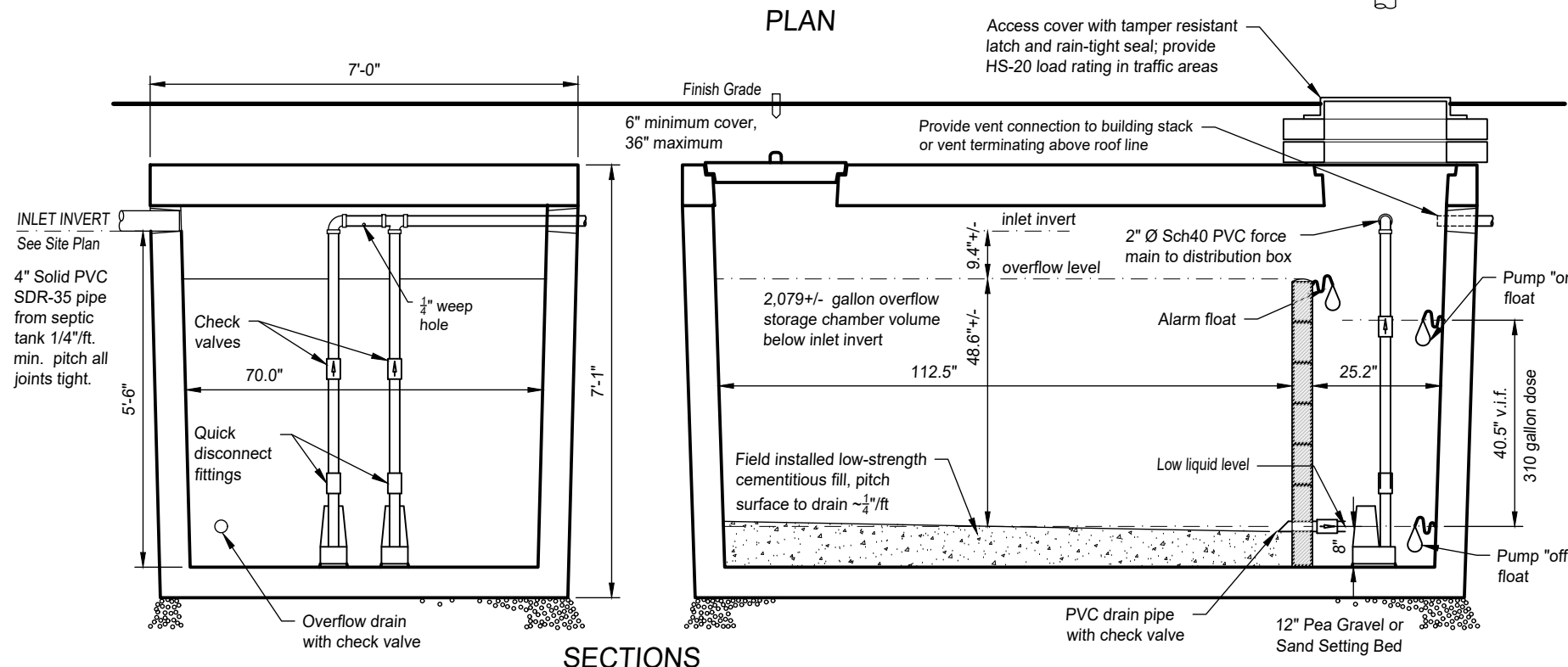
Precast Concrete Pump Chamber with custom internal baffle based on Connecticut Precast Corp. 2500g H2O pump chamber. Minimum f_c of 4,000psi. All joints shall be sealed water tight. Design loading shall satisfy AASHTO HS-20, fabrication to conform to ASTM C1227

Weir wall to be constructed with 4x4x16 CMU reinforced w/ (1) #2 FRP, Owens-Corning "Pinkbar", set into wall of precast at each course. Coat both faces, top and joint at tank wall with one 1/2" coat of Quikrete fiberglass reinforced stucco (FRS) or surface bonding cement (SBC).

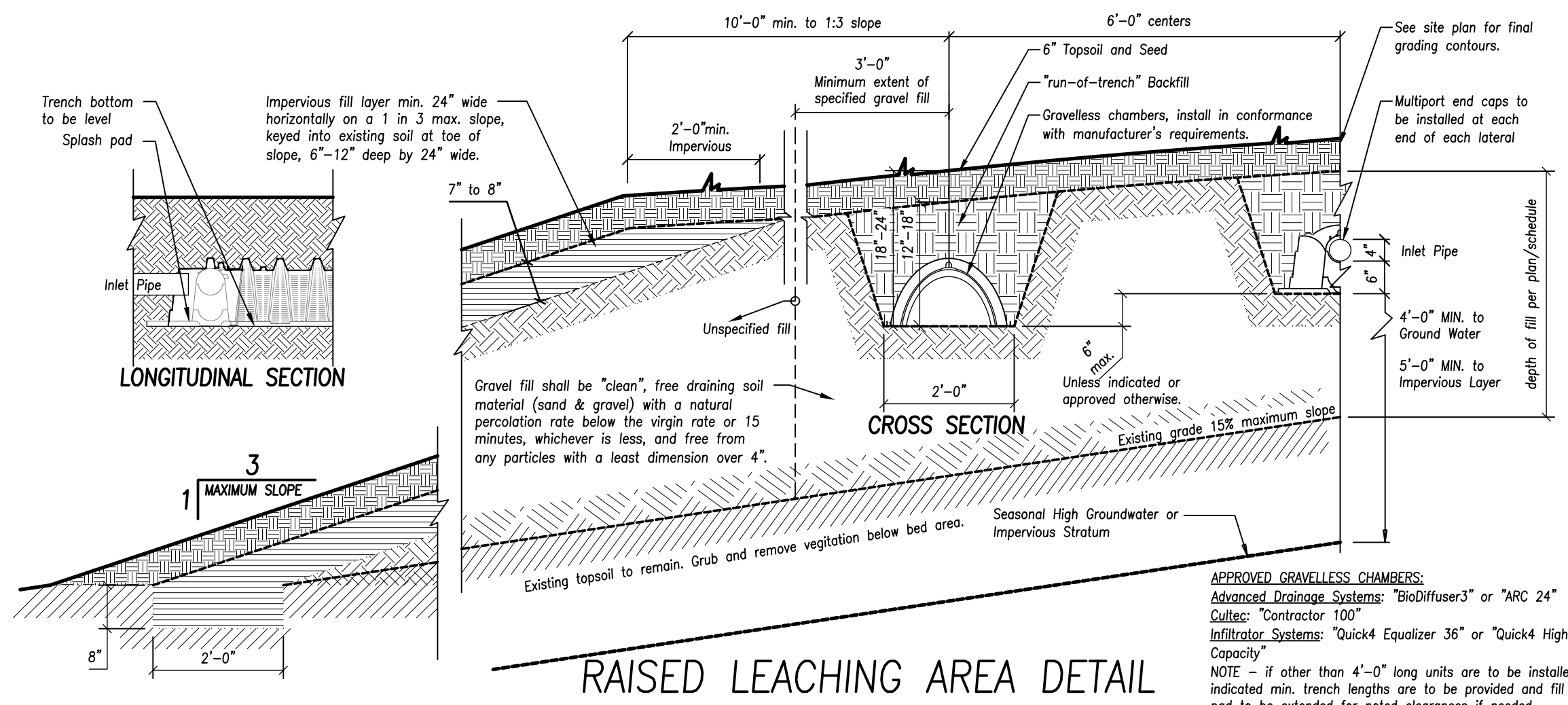
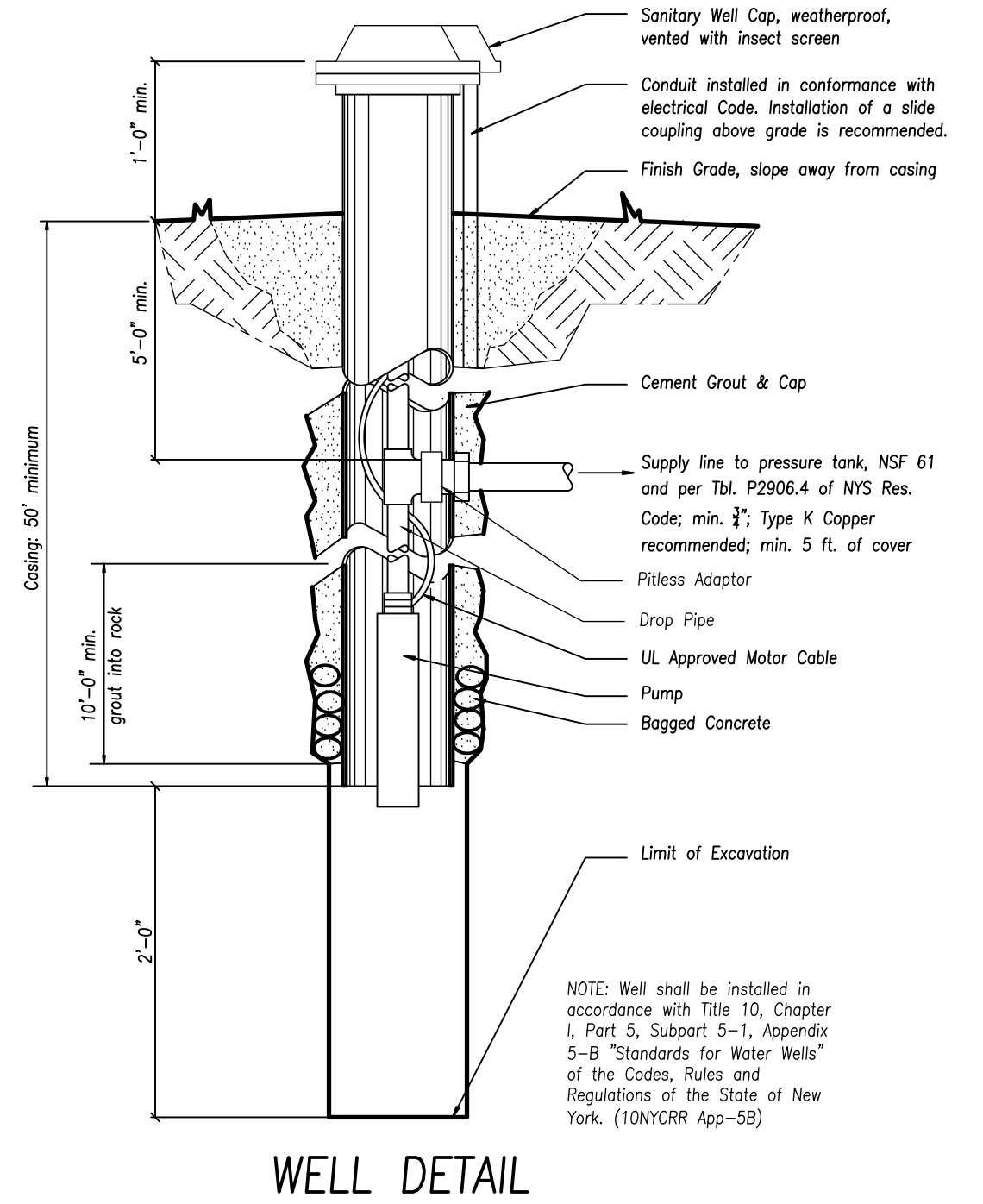
Submersible sewage ejector pumps (2), similar and equal to Goulds model PE31, providing 43gpm at 9.5 ft. TDH (0.33Hp, 115V, 12A, 1ph)

Pump control panel to be similar and equal to "CentriPro" by Xylem (Goulds) duplex NEMA 4X; provide separate alarm circuit and mount on side of building adjacent to pump chamber.

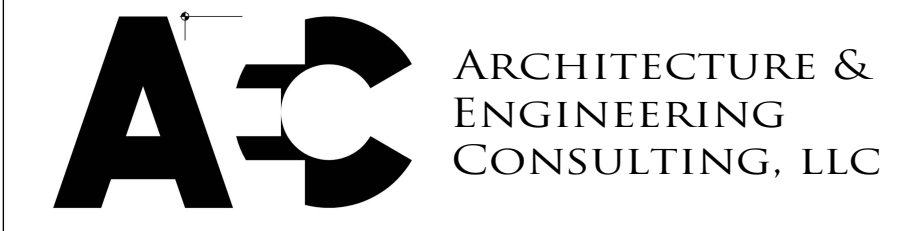
Note that float levels are to be adjusted in the field under the engineer's supervision to achieve 310+/- gallons per dose.



Min. Size	Min. Lq. Area	"W"	"L"	"LL"	"H"
1,500 gal.	40 s.f.	5'-6" +/-	11'-1" +/-	40" +/-	5' +/-

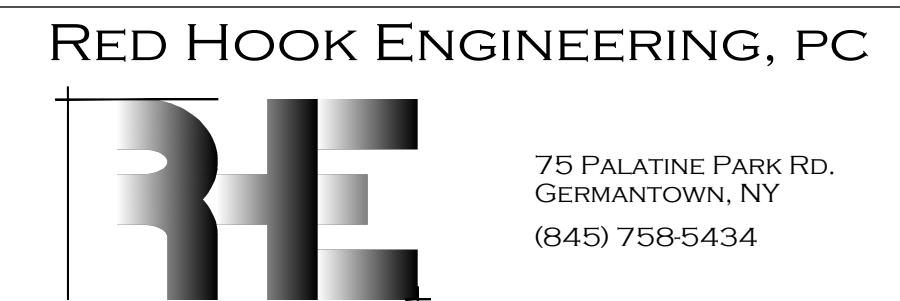


DC DBCH



REVISIONS		
No.	Description	Date

PROJECT NUMBER 569-01 March 15, 2023



BOVEE CONSTRUCTION

**SCHOOL BUILDING FOR
 EVANGELICAL FREE CHURCH, INC.**
 20 SHEPHERDS WAY
 TOWN OF WASHINGTON, NY

**WATER SUPPLY AND
 WASTEWATER DISPOSAL
 DETAILS
 C-501**