



### CLEAR POND

- PROPOSED 10'L x 4'W DOCK
- 100 SQ. FT. BOAT STORAGE BUILDING
- PROPOSED FOOTPATH
- INTERMITTENT STREAM
- EXISTING FOOTPATH

- BENCHMARK "CLEAR"  
MAG NAIL IN BASE OF 12" HEMLOCK TREE  
ELEV.: 1925.36'
- PROPOSED RESIDENCE
- EXISTING FOOTPATH
- WASTEWATER FIELD

- PROPOSED 18" HDPE CULVERT
- PROPOSED AREA OF DISTURBANCE (TYPICAL)  
TOTAL DISTURBANCE ±42,014 SQ. FT.
- PROPOSED 12' WIDE GRAVEL DRIVE

- PROPOSED 50' X 20' EMERGENCY VEHICLE  
TURNOUT AS REQUIRED BY NYS BUILDING CODE

- PROPOSED DRUM HUT
- PROPOSED EARTHEN FOOTPATH
- PROPOSED TIMBER FOOTBRIDGE
- BENCHMARK "ELK"  
MAG NAIL IN BASE OF 18" BEECH TREE  
ELEV.: 1942.22'

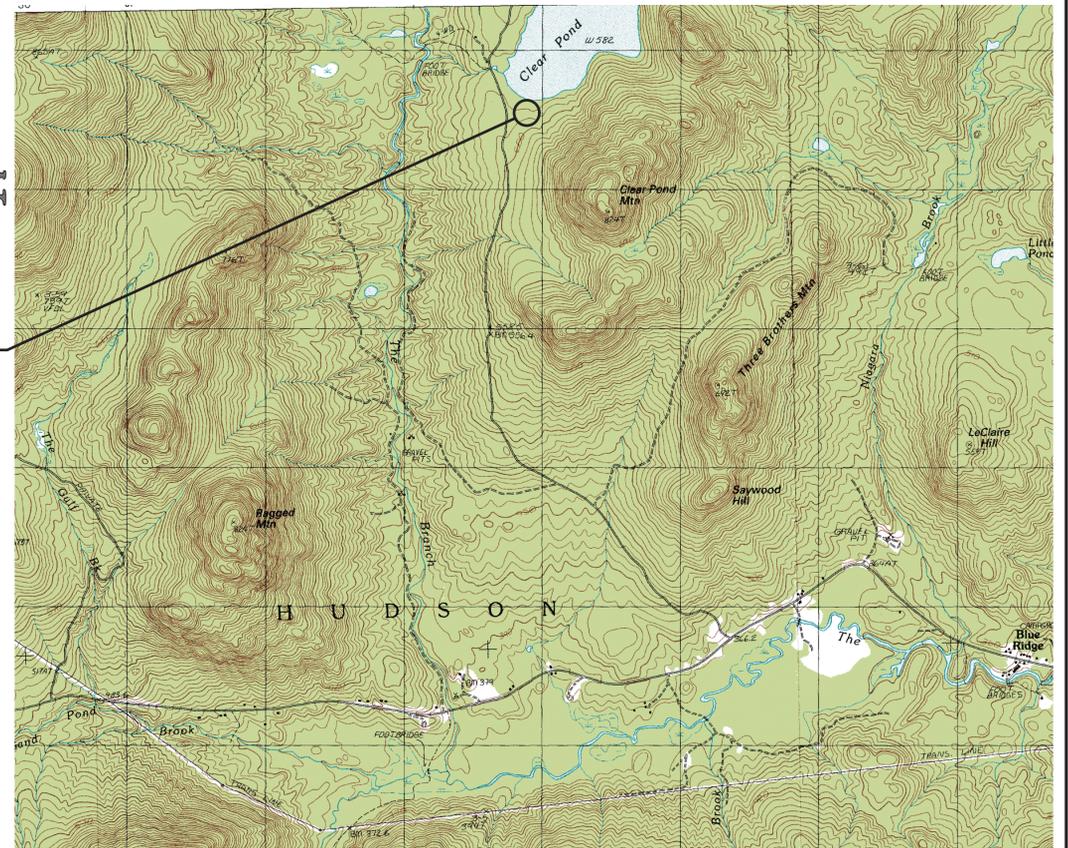
BUILDING ENVELOPE (TYPICAL)

UTILITY POLE (TYPICAL)

EXISTING WOODS ROAD

APPROXIMATE EXCLUSION ZONE LINE (TYPICAL)

### OVERALL SITE PLAN 1" = 50'



### LOCATION MAP 1" = 2000'±

NOTE:  
FOR COMPLETE SURVEY INFORMATION SEE:  
TOPOGRAPHIC SITE PLAN LANDS OF  
ELK LAKE LAND, INC.  
BUILDING ENVELOPE FOR USE BY MATTHEW ERNST  
BY  
LAFAVE, WHITE & MCGIVERN, L.S., P.C.  
DATED 11/06/23

LEGEND  
--- EXISTING CONTOUR  
--- PROPOSED CONTOUR

NEW YORK STATE OF OPPORTUNITY  
**Adirondack Park Agency**

**RECEIVED**  
Date: March 24, 2025

NO.	DESCRIPTION	DATE	DWN	CHECKED BY
1	REVISED PER APA COMMENTS	03-21-25	BWW	BWW
2	REVISED BUILDING CONSTRUCTION, LOCATION	03-06-25	BWW	BWW
3	RELEASED FOR APA SUBMISSION	10-07-24	BWW	BWW

REVISIONS		SCALE: 1" = 50'
NOTE: If a violation of New York State Education Law Article 145 Section 7209 for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item in any way, if an item bearing the seal of an engineer is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.	NOTE: If "AS BUILT" PLANS AND/OR CONSTRUCTION DOCUMENTATION IS REQUIRED, ENGINEER MUST BE NOTIFIED AND PERFORM SITE INSPECTION BEFORE TO BACKFILL.	DWN BY: BWW CHK'D BY: BWW DATE: 05-21-24 SHEET NO. 1 OF 3



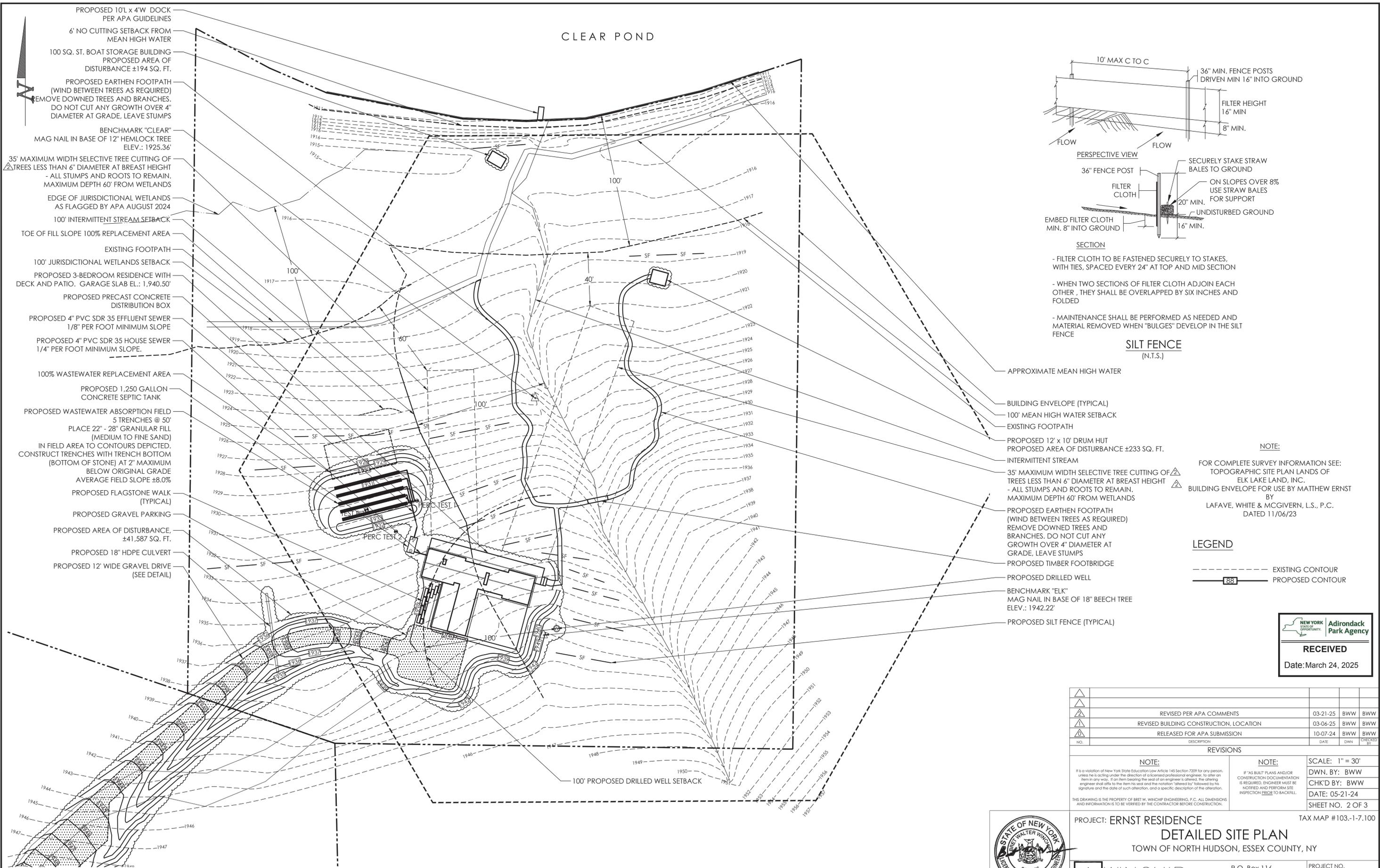
PROJECT: ERNST RESIDENCE  
**OVERALL SITE PLAN**  
TOWN OF NORTH HUDSON, ESSEX COUNTY, NY

DATE: 03-21-25

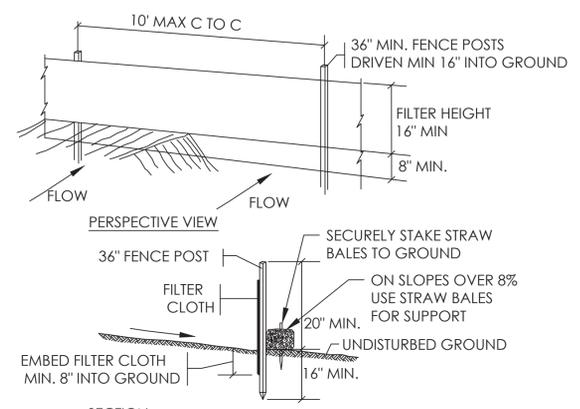
W. WINCHIP ENGINEERING P.C.  
P.O. Box 116  
Chestertown, New York 12817  
Phone: (518) 419-1682

PROJECT NO.  
**23-029**  
ST-001

TAX MAP #103.-1-7.100



- PROPOSED 10'L x 4'W DOCK PER APA GUIDELINES
- 6' NO CUTTING SETBACK FROM MEAN HIGH WATER
- 100 SQ. ST. BOAT STORAGE BUILDING PROPOSED AREA OF DISTURBANCE ±194 SQ. FT.
- PROPOSED EARTHEN FOOTPATH (WIND BETWEEN TREES AS REQUIRED) REMOVE DOWNED TREES AND BRANCHES. DO NOT CUT ANY GROWTH OVER 4" DIAMETER AT GRADE. LEAVE STUMPS
- BENCHMARK "CLEAR" MAG NAIL IN BASE OF 12" HEMLOCK TREE ELEV.: 1925.36'
- 35' MAXIMUM WIDTH SELECTIVE TREE CUTTING OF TREES LESS THAN 6" DIAMETER AT BREAST HEIGHT - ALL STUMPS AND ROOTS TO REMAIN. MAXIMUM DEPTH 60' FROM WETLANDS
- EDGE OF JURISDICTIONAL WETLANDS AS FLAGGED BY APA AUGUST 2024
- 100' INTERMITTENT STREAM SETBACK
- TOE OF FILL SLOPE 100% REPLACEMENT AREA
- EXISTING FOOTPATH
- 100' JURISDICTIONAL WETLANDS SETBACK
- PROPOSED 3-BEDROOM RESIDENCE WITH DECK AND PATIO. GARAGE SLAB EL.: 1,940.50'
- PROPOSED PRECAST CONCRETE DISTRIBUTION BOX
- PROPOSED 4" PVC SDR 35 EFFLUENT SEWER 1/8" PER FOOT MINIMUM SLOPE
- PROPOSED 4" PVC SDR 35 HOUSE SEWER 1/4" PER FOOT MINIMUM SLOPE.
- 100% WASTEWATER REPLACEMENT AREA
- PROPOSED 1,250 GALLON CONCRETE SEPTIC TANK
- PROPOSED WASTEWATER ABSORPTION FIELD 5 TRENCHES @ 50' PLACE 22" - 28" GRANULAR FILL (MEDIUM TO FINE SAND) IN FIELD AREA TO CONTOURS DEPICTED. CONSTRUCT TRENCHES WITH TRENCH BOTTOM (BOTTOM OF STONE) AT 2" MAXIMUM BELOW ORIGINAL GRADE AVERAGE FIELD SLOPE ±8.0%
- PROPOSED FLAGSTONE WALK (TYPICAL)
- PROPOSED GRAVEL PARKING
- PROPOSED AREA OF DISTURBANCE, ±41,587 SQ. FT.
- PROPOSED 18" HDPE CULVERT
- PROPOSED 12' WIDE GRAVEL DRIVE (SEE DETAIL)



**SILT FENCE**  
(N.T.S.)

- FILTER CLOTH TO BE FASTENED SECURELY TO STAKES, WITH TIES, SPACED EVERY 24" AT TOP AND MID SECTION

- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED

- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE

**NOTE:**  
FOR COMPLETE SURVEY INFORMATION SEE: TOPOGRAPHIC SITE PLAN LANDS OF ELK LAKE LAND, INC. BUILDING ENVELOPE FOR USE BY MATTHEW ERNST BY LAFAVE, WHITE & MCGIVERN, L.S., P.C. DATED 11/06/23

**LEGEND**

---	EXISTING CONTOUR
---	PROPOSED CONTOUR

NEW YORK STATE OFFICIAL SEAL  
Adirondack Park Agency  
**RECEIVED**  
Date: March 24, 2025

NO.	DESCRIPTION	DATE	DWN	CHECKED BY
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**REVISIONS**

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PROJECT: ERNST RESIDENCE  
TOWN OF NORTH HUDSON, ESSEX COUNTY, NY  
TAX MAP # 103.-1-7.100

**STATE OF NEW YORK**  
BRETT WALTER WINCHIP  
LICENSED PROFESSIONAL ENGINEER  
088078

**WINCHIP ENGINEERING P.C.**  
P.O. Box 116  
Chester town, New York 12817  
Phone: (518) 419-1682

PROJECT NO. **23-029**  
ST-002

DATE: 03-21-25

**DETAILED SITE PLAN**  
1" = 30'

**SOIL TEST DATA**

NOVEMBER 18, 2023

**TEST PIT**

0" - 6": DARK BROWN SAND WITH ORGANICS  
 6" - 26": RED / BROWN SAND, SOME SILT, SOME GRAVEL, COBBLES, BOULDERS  
 26" - 72": COMPACT GRAY SAND, MOTTLES AT 26"

SEASONAL HIGH GROUND WATER TABLE AT 26"

PERC TEST #1 (NOVEMBER 18, 2023)  
 PERCOLATION RATE AT 12" EQUALS 1 1/4 MINUTES 12 SECONDS

PERC TEST #2 (NOVEMBER 18, 2023)  
 PERCOLATION RATE AT 12" EQUALS 1 1/2 MINUTES 28 SECONDS

**ABSORPTION FIELD DESIGN DATA**

ASSUME 3 BEDROOMS (BR) AND A DESIGN PERCOLATION RATE OF 1 1/7 MINUTES

ASSUME 1.6 GALLON/FLUSH TOILETS AND 2.5 GALLON/MINUTE FAUCETS/SHOWERHEADS

DESIGN FLOW = 3 BR X 110 GPD/BR  
 DESIGN FLOW = 330 GPD

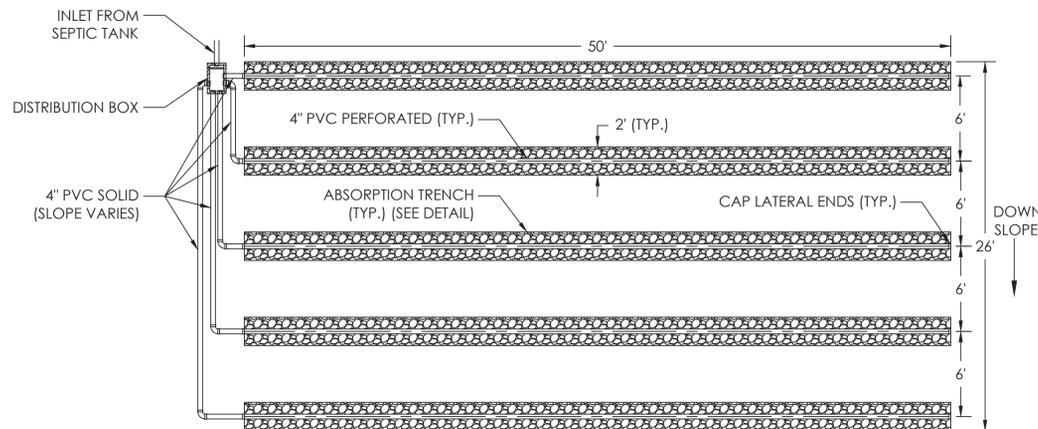
ABSORPTION RATE = 1.0 GPD/SF  
 ABSORPTION AREA = 330 GPD/1.0 GPD/SF  
 ABSORPTION AREA = 330 SF

USE ABSORPTION TRENCH DESIGN  
 TRENCH LENGTH = 330 SF/25F/LF  
 TRENCH LENGTH = 165 LF  
 USE 5 TRENCHES @ 50 FOR ADDITIONAL TREATMENT

THIS WASTEWATER TREATMENT SYSTEM IS DESIGNED AND APPROVED BASED ON THE INSTALLATION OF WATER CONSERVING FIXTURES AND A DESIGN FLOW OF 110GPD PER BEDROOM. THE SYSTEM IS NOT DESIGNED TO ACCOMMODATE EXTREME WATER USE FIXTURES, SUCH AS JACUZZI-TYPE SPA TUBS OR WATER TREATMENT EQUIPMENT. THE INSTALLATION OF NON-CONSERVING WATER FIXTURES IS CONTRARY TO THE APPROVAL OF THIS WASTEWATER TREATMENT SYSTEM

**INSTALLER NOTES:**

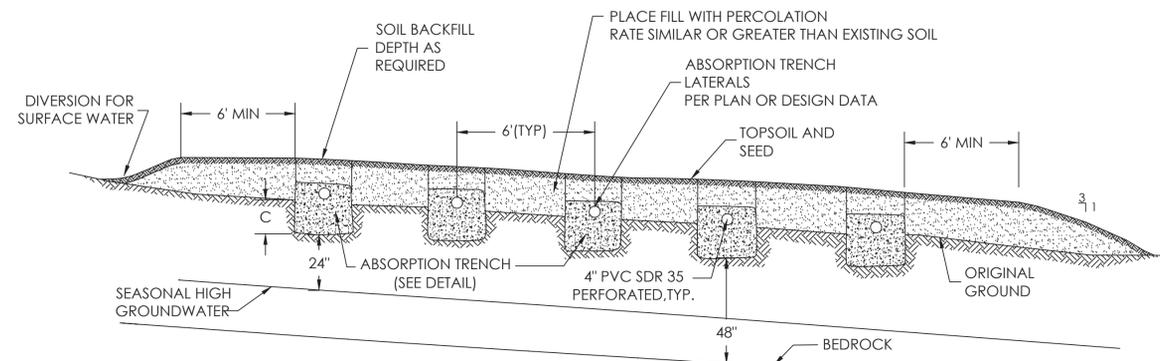
- 1) WASTEWATER SYSTEM COMPONENTS MUST BE INSTALLED AS DETAILED ON ENGINEERING PLANS. ANY CHANGES TO COMPONENTS, ARRANGEMENT OR LOCATION REQUIRES APPROVAL OF ENGINEER, AND POSSIBLY JURISDICTIONAL AUTHORITIES, PRIOR TO INSTALLATION.
- 2) SEPTIC TANKS MUST COMPLY WITH ALL NEW YORK STATE DEPARTMENT OF HEALTH AND/OR NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION STANDARDS.
- 3) ABSORPTION TRENCH WASTEWATER FIELDS MUST BE CONSTRUCTED AS DETAILED ON ENGINEERING PLANS. THE BOTTOM OF EACH TRENCH MUST BE INSTALLED AT THE SPECIFIED MAXIMUM DEPTH FOR SHALLOW TYPE ABSORPTION FIELD SYSTEMS, AND WITHIN THE RANGE OF DEPTHS FOR A CONVENTIONAL TYPE ABSORPTION FIELD. TRENCHES ARE DESIGNED TO FOLLOW THE NATURAL GRADE OF THE LAND. FIELDS NOT INSTALLED ON NATURALLY LEVEL SITES ARE NOT INTENDED TO BE CONSTRUCTED WITH LATERALS LEVEL TO ADJACENT LATERALS.
- 4) ABSORPTION BED WASTEWATER FIELDS MUST BE CONSTRUCTED AS DETAILED ON ENGINEERING PLANS. THE BOTTOM OF THE BED MUST BE LEVEL AND MUST BE INSTALLED WITHIN THE RANGE OF DEPTHS INDICATED.
- 5) THE INSTALLER SHALL PRODUCE AN AS-BUILT SKETCH LOCATING THE FIELD / BED CORNERS, DISTRIBUTION BOX AND SEPTIC TANK CLEANOUTS. THE LOCATIONS SHALL BE TAPED FROM PERMANENT FACILITIES SUCH AS FOUNDATION CORNERS. A COPY OF THE AS BUILT SKETCH SHALL BE PROVIDED TO THE OWNER AND THE JURISDICTIONAL AUTHORITY.
- 6) WE ARE UNABLE TO CERTIFY INSTALLATION OF SYSTEMS WHICH DO NOT CONFORM TO THE SPECIFICATIONS CONTAINED ON THE ENGINEERING PLANS AND DETAILS. IF THERE ARE ANY QUESTIONS REGARDING INSTALLATION, PLEASE CONTACT US FOR CLARIFICATION.



**ABSORPTION FIELD PLAN VIEW**

(N.T.S.)

USE 5 LATERALS @ 50' FOR 3 BEDROOMS



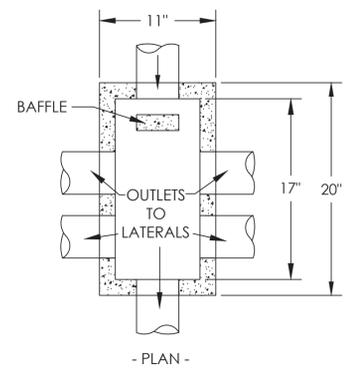
**SHALLOW ABSORPTION TRENCH**

FIELD SECTION

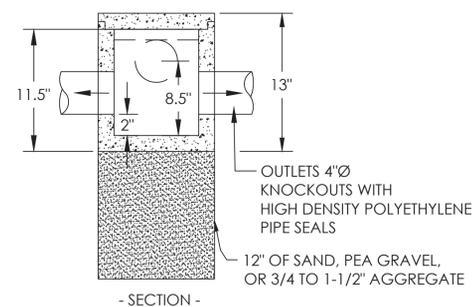
(N.T.S.)

NOTE: THIS DESIGN UTILIZES SHALLOW ABSORPTION TRENCHES. PLACE 22" TO 28" MAXIMUM GRANULAR FILL. CONSTRUCT TRENCHES IN FILL WITH TRENCH BOTTOM 2" MAX BELOW EXISTING GRADE (C=2" MAX).

CUT ALL TREES, STUMPS AND OTHER VEGETATION AT GRADE AND REMOVE. GRUB OUT STUMP ROOT MASS, REMOVE ALL LEAVES, LIMBS AND BOULDERS ABOVE GRADE. DO NOT SCARIFY, ROTOTILL OR REMOVE ROOT STRUCTURE BELOW GRADE. NO HEAVY OR RUBBER Tired EQUIPMENT ALLOWED IN ABSORPTION FIELD AREA. CONSTRUCT DIVERSION DITCH OR BERM UP GRADE OF FIELD TO ROUTE SURFACE RUNOFF AROUND THE FIELD. PLACE FILL WITH PERCOLATION RATE EQUAL TO OR GREATER THAN IN SITU USEABLE SOIL IN THE ABSORPTION FIELD AREA.



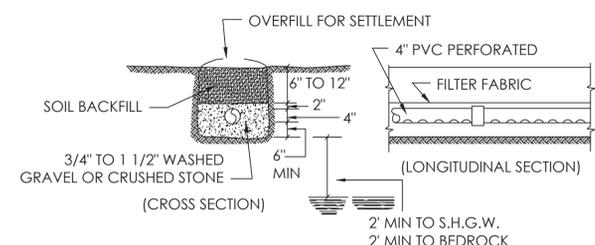
- PLAN -



**DISTRIBUTION BOX**

(N.T.S.)

NOTE:  
 -USE SPEED LEVELING DEVICES IN EACH OUTLET.  
 -USE WATER TO VERIFY EQUAL DISTRIBUTION THROUGH ALL OUTLETS.  
 -TOP, BOTTOM, AND SIDES ALL 1.5" THICK

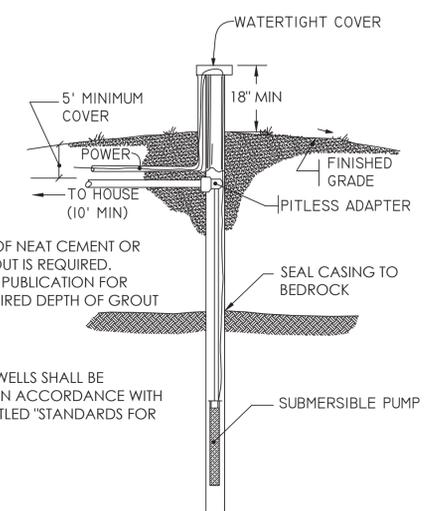


**TYPICAL SECTION**

ABSORPTION TRENCH

(N.T.S.)

NOTES:  
 - SPACE ABSORPTION TRENCHES 6' MIN O.C. OR AS NOTED  
 - SLOPE PERFORATED PIPE 1/16" TO 1/32" PER FT  
 - TRENCH BOTTOM LEVEL  
 - DO NOT INSTALL IN WET SOIL  
 - RAKE SIDES AND BOTTOM OF TRENCH BEFORE PLACING GRAVEL  
 - TRENCH 24" WIDE, 30" MAXIMUM DEPTH  
 - CAP LATERAL ENDS



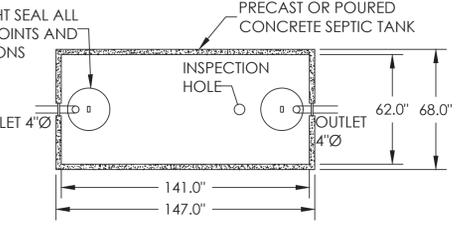
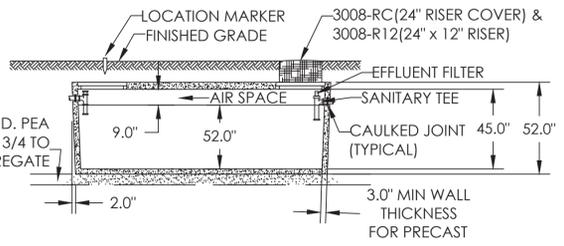
**WELL DETAIL**

(N.T.S.)

A 2" ANNULUS OF NEAT CEMENT OR BENTONITE GROUT IS REQUIRED. REFER TO CITED PUBLICATION FOR MINIMUM REQUIRED DEPTH OF GROUT

WATER SUPPLY WELLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPENDIX 5-B TITLED "STANDARDS FOR WATER WELLS"

NOTE: IF AQUIFER WATER ENTERS WATER WELL AT A DEPTH LESS THAN 50' - WELL SEPARATION DISTANCES TO CONTAMINATION SOURCES MUST BE INCREASED BY 50%.

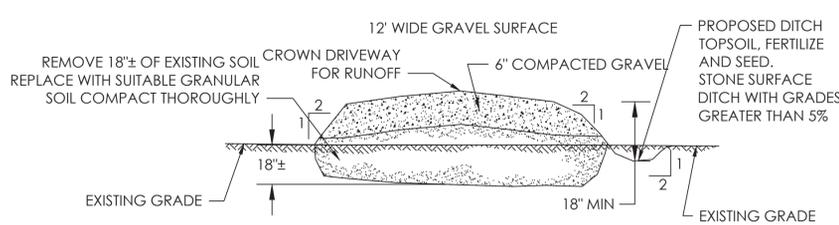


**CONCRETE SEPTIC TANK**

(N.T.S.)

NOTE:  
 USE 1250 GALLONS FOR 3 BEDROOMS ADDITIONAL TREATMENT

NOTE:  
 -INSTALL POLYLOK PL-122 RESIDENTIAL WASTEWATER EFFLUENT FILTER IN OUTLET TEE  
 -GARBAGE GRINDER SHALL BE CONSIDERED EQUIVALENT TO AN ADDITIONAL BEDROOM FOR SIZING SEPTIC TANK. AN OUTLET GAS DEFLECTION Baffle AND A TWO COMPARTMENT SEPTIC TANK IS REQUIRED WHEN A GARBAGE GRINDER IS INSTALLED  
 -INSTALL TEE IN TANK INLET AND OUTLET 16" AND 18" BELOW LIQUID LEVEL RESPECTIVELY



**TYPICAL DRIVEWAY SECTION**

(N.T.S.)

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REVISIONS				
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THIS DRAWING IS THE PROPERTY OF BREW & WINCHIP ENGINEERING, P.C. ALL DIMENSIONS AND INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION.				CHK'D BY: BWW
				DATE: 09-17-24
				SHEET NO. 3 OF 3

PROJECT: ERNST RESIDENCE  
 TOWN OF NORTH HUDSON, ESSEX COUNTY, NY  
 TAX MAP # 103.1-7.100



**WINCHIP ENGINEERING P.C.**  
 P.O. Box 116  
 Cheertown, New York 12817  
 Phone: (518) 419-1682

PROJECT NO. **23-029**  
**ST-003**

DATE: 03-21-25