

FORESTBURGH POND

NYS ROUTE 42

TOWN OF FORESTBURGH

COUNTY OF SULLIVAN

STATE OF NEW YORK

OWNER:

CAVALLACCI FORESTBERG, LLC
10 STAG FOREST ROAD
FORESTBURGH, NEW YORK 12777
TM# 30.-2-6.2

APPLICANT/DEVELOPER:

NEW YORK LAND AND LAKES
155 MAIN STREET, SUITE D
ONEONTA, NEW YORK 13820

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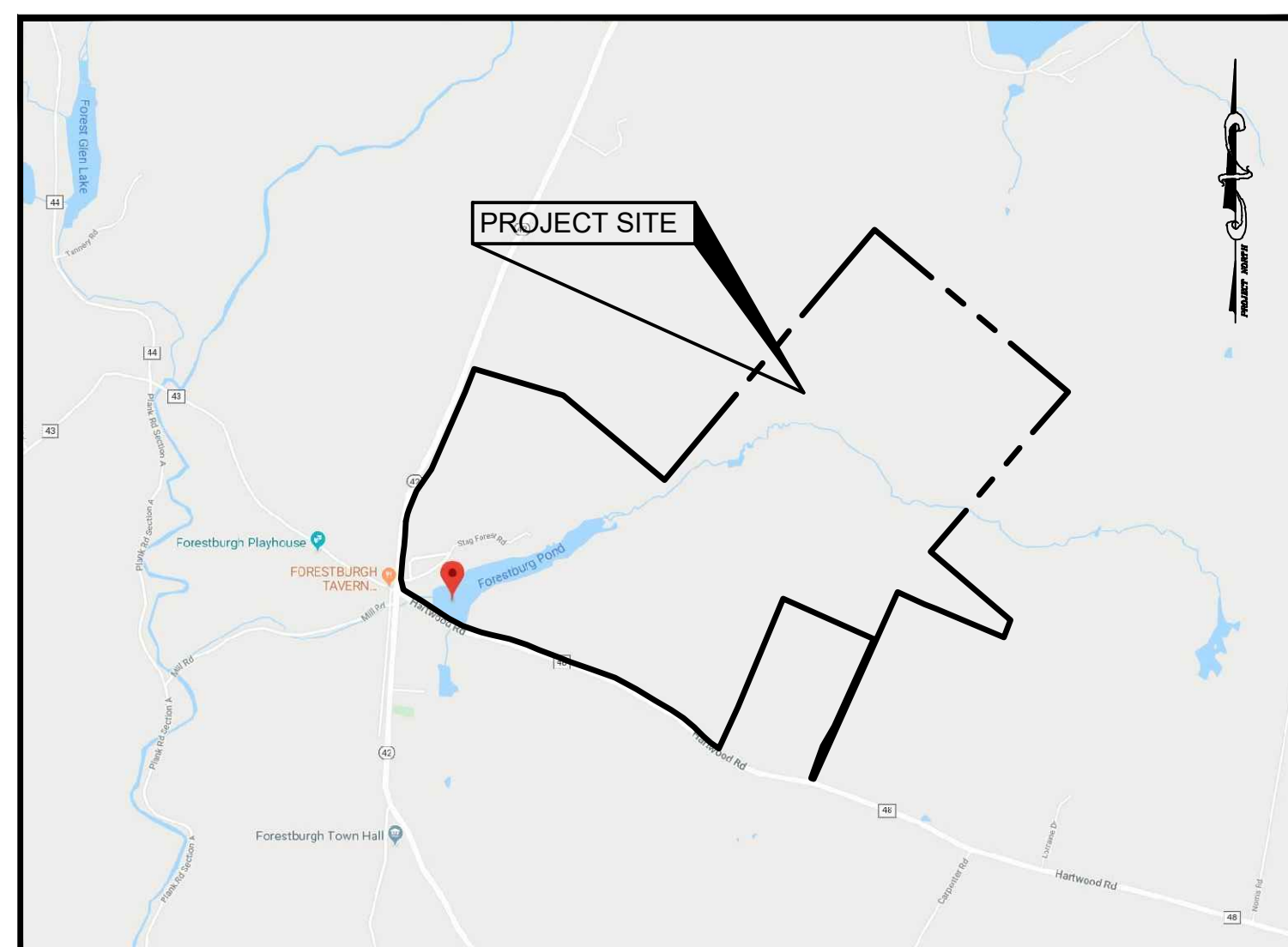
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DRAWINGS PREPARED BY



PROJECT NO. 392.12119

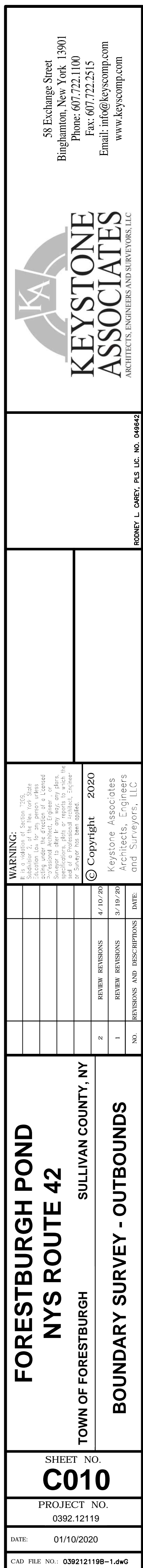
JANUARY 10, 2020
REVISED: MARCH 19, 2020
APRIL 10, 2020

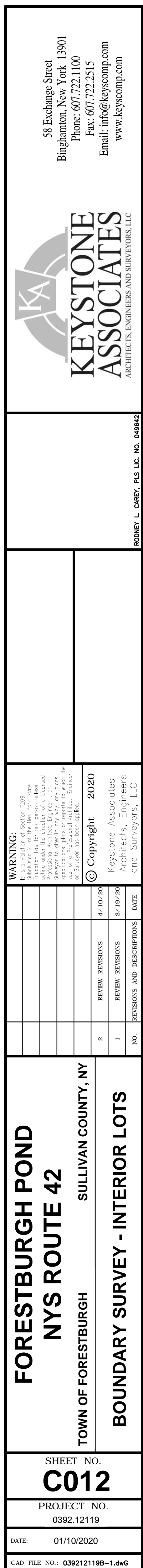


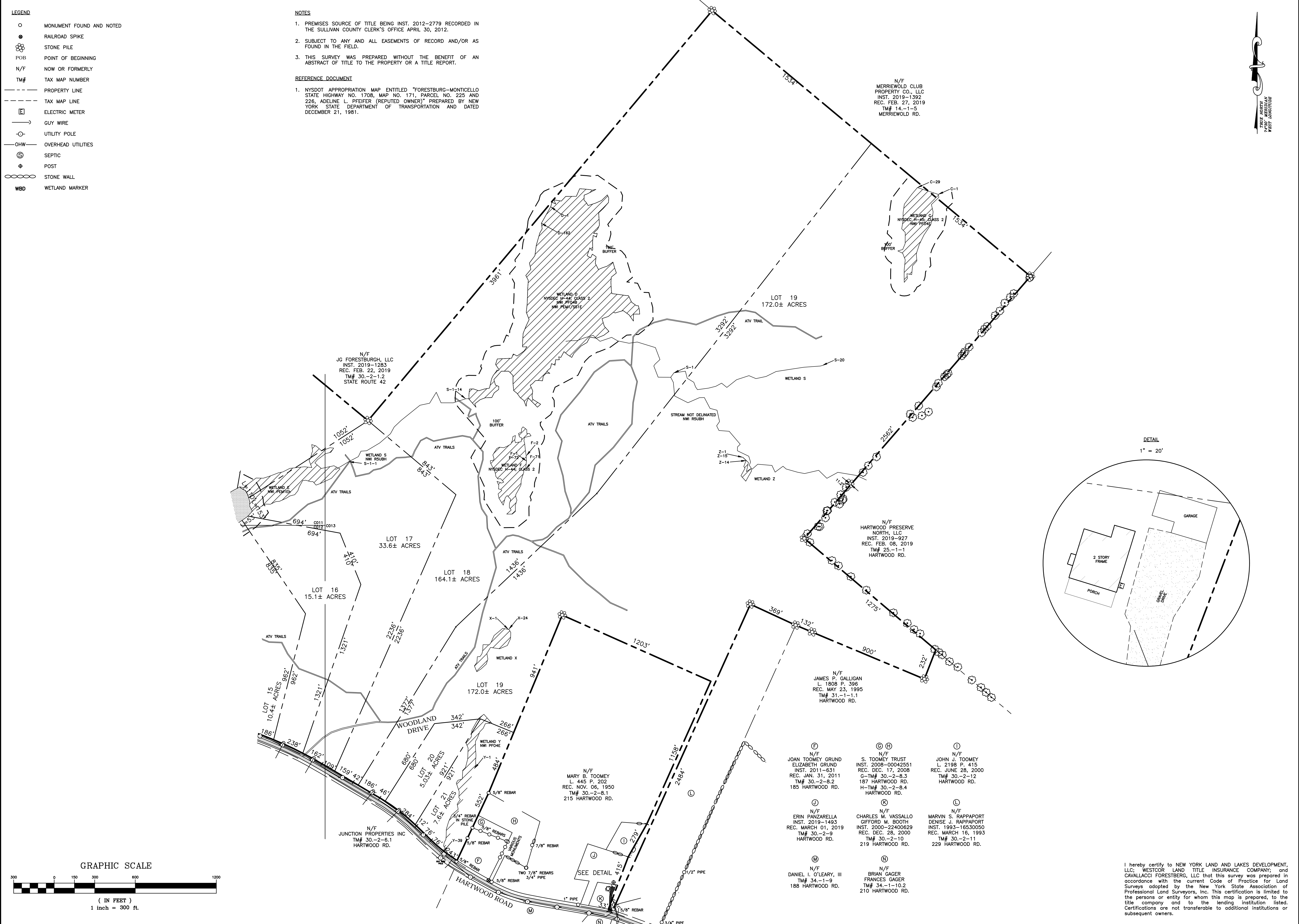
LOCATION MAP

SCALE: 1"=2,000'

MARK W. PARKER, P.E. LIC. No. 093972
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RODNEY L. GAGNEY, PLS. L.C. NO. 048462

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NO.	REVISIONS AND DESCRIPTIONS	DATE
2	REVIEW REVISIONS	4/10/20
1	REVIEW REVISIONS	3/19/20
N/A	REVIEW REVISIONS	

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FORESTBURGH POND
NYS ROUTE 42
SULLIVAN COUNTY, NY

BOUNDARY SURVEY - INTERIOR LOTS

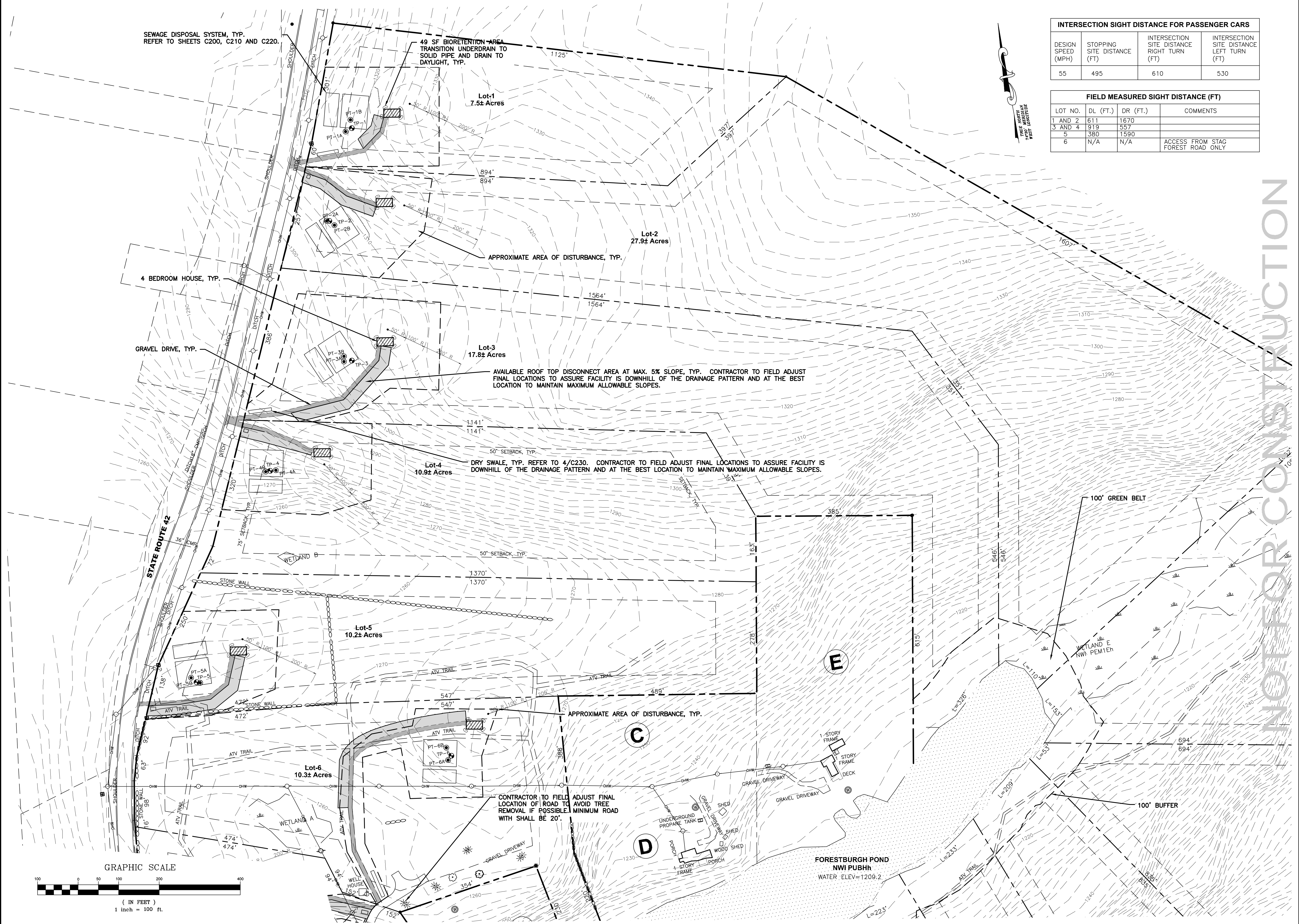
SHEET NO.
C013

PROJECT NO.
0392.12119

DATE: 01/10/2020

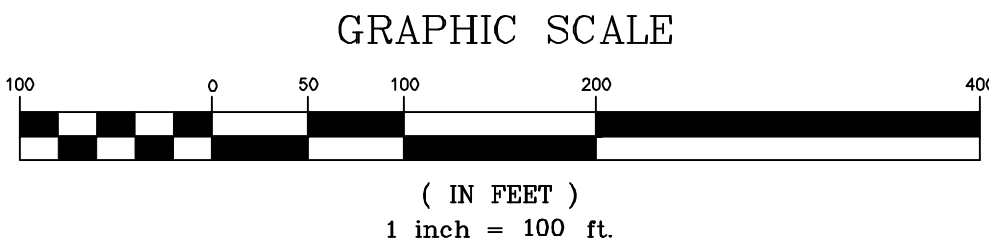
CAD FILE NO.: 039212119B-1.dwg

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INTERSECTION SIGHT DISTANCE FOR PASSENGER CARS			
DESIGN SPEED (MPH)	STOPPING SITE DISTANCE (FT)	INTERSECTION SITE DISTANCE RIGHT TURN (FT)	INTERSECTION SITE DISTANCE LEFT TURN (FT)
55	495	610	530

FIELD MEASURED SIGHT DISTANCE (FT)			
LOT NO.	DL (FT.)	DR (FT.)	COMMENTS
1 AND 2	611	1670	
3 AND 4	919	557	
5	380	1590	
6	N/A	N/A	ACCESS FROM STAG FOREST ROAD ONLY



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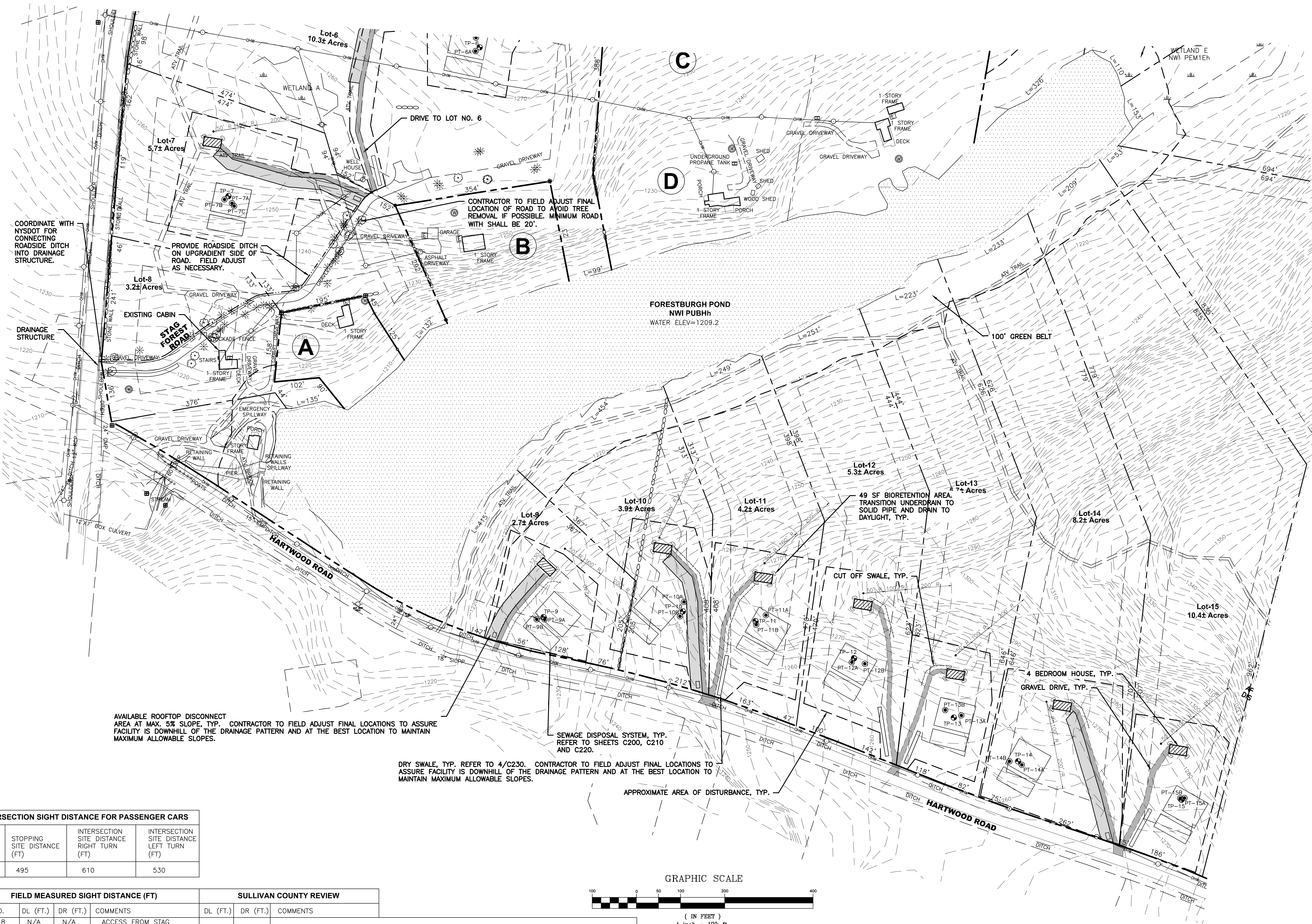


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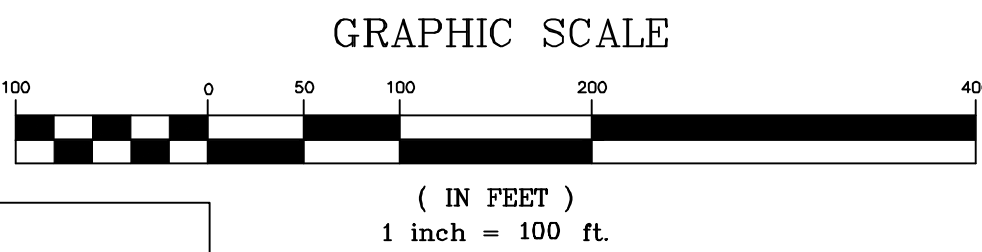
**FORESTBURGH POND
NYS ROUTE 42**
SULLIVAN COUNTY, NY
TOWN OF FORESTBURGH
LAYOUT PLAN LOTS NO. 1-NO.6

SHEET NO.
C100
PROJECT NO.
0392.12119
DATE: 01/10/2020
SAD FILE NO. 0392.12119-SITE



INTERSECTION SIGHT DISTANCE FOR PASSENGER CARS			
DESIGN SPEED (MPH)	STOPPING SITE DISTANCE (FT)	INTERSECTION SITE DISTANCE RIGHT TURN (FT)	INTERSECTION SITE DISTANCE LEFT TURN (FT)
55	495	610	530

FIELD MEASURED SIGHT DISTANCE (FT)				SULLIVAN COUNTY REVIEW		
LOT NO.	DL (FT.)	DR (FT.)	COMMENTS	DL (FT.)	DR (FT.)	COMMENTS
7 AND 8	N/A	N/A	ACCESS FROM STAG FOREST ROAD ONLY			
9	589	578	REQUIRES LIMB CLEARING	536	545	ESTIMATED VALUES WITH REMOVAL OF A LARGE TREE AS WELL AS CUTTING BACK OF ROAD SIDE BANK
10 AND 11	680	710			695	ADEQUATE AND WOULD PERMIT
12 AND 13	1124	749				ADEQUATE FOR PERMIT WITH REMOVAL OF LARGE TREE
14 AND 15	941	726				ADEQUATE FOR PERMIT
STAG FOREST ROAD	2113	685				



FORESTBURGH POND
NYS ROUTE 42
TOWN OF FORESTBURGH
SULLIVAN COUNTY, NY
LAYOUT PLAN LOTS NO. 7-NO. 15

SHEET NO.
C110
PROJECT NO.
0392.12119
DATE: 01/10/2020
SHEET FILE NO. 0392.12119-SITE

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INTERSECTION SIGHT DISTANCE FOR PASSENGER CARS			
DESIGN SPEED (MPH)	STOPPING SITE DISTANCE (FT)	INTERSECTION SITE DISTANCE RIGHT TURN (FT)	INTERSECTION SITE DISTANCE LEFT TURN (FT)
55	495	610	530

FIELD MEASURED SIGHT DISTANCE (FT)				SULLIVAN COUNTY REVIEW		
LOT NO.	DL (FT.)	DR (FT.)	COMMENTS	DL (FT.)	DR (FT.)	COMMENTS
16	536	1591		527		
17, 18, 19	N/A	N/A	ACCESS FROM WOODLAND ROAD ONLY			WOULD LIKELY BE ABLE TO PERMIT, HOWEVER WOULD BE INTERESTED IF DRIVE CAN BE MOVED
WOODLAND DRIVE	536	1591				
20 AND 21	630	590				DRIVE HAS BEEN RELOCATED SINCE COUNTY REVIEW

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FORESTBURGH POND
NYS ROUTE 42

SULLIVAN COUNTY, NY

LAYOUT PLAN LOTS NO. 16-NO. 21

SHEET NO.
C120

PROJECT NO.
0392.12119

DATE: 01/10/2020

DRAWN FILE NO. 0392.12119-SITE

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SHALLOW ABSORPTION TRENCHES

GENERAL INFORMATION

SHALLOW ABSORPTION TRENCHES ARE CONSTRUCTED PARALLEL TO GROUND CONTOURS WITH THE BOTTOM AS LEVEL AS POSSIBLE AND LOCATED AT OR BELOW ORIGINAL GROUND SURFACE LEVEL. THESE SYSTEMS MAY BE USED WHERE SITES CONTAIN AT LEAST TWO FEET BUT LESS THAN FOUR FEET OF PERMEABLE SOIL (I.E., ONE TO 60 MINUTES PER INCH PERCOLATION RATE). DIVERSION OF SURFACE RUNOFF AROUND THE FILL AREA BY MEANS OF DITCHING/BERMING IS REQUIRED UPHILL OF ALL SLOPED SITES. HEAVY EQUIPMENT SHALL NOT ENTER THE ABSORPTION AREA. FILL MATERIAL SHALL HAVE APPROXIMATELY THE SAME PERCOLATION RATE AS THE UNDERLYING PERMEABLE SOIL. FILL MATERIAL, INCLUDING A SIX INCH TOPSOIL LAYER, SHALL NOT BE MORE THAN 30 INCHES ABOVE ORIGINAL GRADE, SHALL EXTEND AT LEAST SIX FEET HORIZONTALLY FROM AND AT THE SAME DEPTH AS THE TRENCH SIDEWALL IN FILL, AND SHALL HAVE A MAXIMUM SLOPE OF ONE VERTICAL TO THREE HORIZONTAL AT THE EDGE TO INTERSECT WITH THE ORIGINAL GROUND SURFACE. A CONVENTIONAL ABSORPTION FIELD SYSTEM (I.E., TRENCHES WITH DISTRIBUTION LINES AND AGGREGATE) IS CONSTRUCTED IN THE FILL AND ORIGINAL SOIL. FILL MORE PERMEABLE THAN THE ON-SITE PERMEABLE SOIL SHALL NOT BE UTILIZED TO AVOID SHORT-CIRCUITING OF WASTEWATER TO THE SURFACE OF THE GROUND.

SITE REQUIREMENTS

THESE SYSTEMS ARE USED WHERE THERE IS AT LEAST TWO FEET BUT LESS THAN FOUR FEET OF USABLE SOIL. VERTICAL SEPARATION DISTANCES BETWEEN TRENCH BOTTOMS AND BOUNDARY CONDITIONS (I.E., BEDROCK, GROUND WATER, AND IMPERMEABLE STRATA). IN ADDITION, THE HORIZONTAL SEPARATION DISTANCES NOTED IN TABLE 2 SHALL BE MET.

DESIGN CRITERIA

A MINIMUM TWO FEET SEPARATION MUST BE MAINTAINED BETWEEN THE BOTTOM OF EACH TRENCH AND ALL BOUNDARY CONDITIONS (I.E., BEDROCK, GROUND WATER, AND IMPERMEABLE STRATA). THE BOTTOM OF EACH TRENCH MUST NOT BE ABOVE THE ORIGINAL GROUND SURFACE AND SHOULD PREFERABLY BE AT LEAST SIX INCHES BELOW ORIGINAL GRADE. AT LEAST TWO PERCOLATION TESTS SHALL BE PERFORMED WITHIN THE PROPOSED ABSORPTION AREA WITH THE BOTTOM OF THE TEST HOLES AT THE DEPTH OF THE PROPOSED TRENCHES OR AT SIX INCHES BELOW GRADE IF THE BOTTOM OF THE PROPOSED TRENCHES WILL BE BETWEEN GRADE AND SIX INCHES BELOW GRADE. THE SLOWEST PERCOLATION RATE OBSERVED SHALL BE USED TO DESIGN THE ABSORPTION FACILITY. FILL MATERIAL SHALL HAVE A PERMEABILITY SIMILAR TO BUT NOT MORE PERMEABLE THAN THE UNDERLYING IN SITU USABLE SOIL. THE DEPTH OF FILL MATERIAL, INCLUDING A SIX INCH TOPSOIL LAYER, SHALL NOT EXCEED 30 INCHES ABOVE THE ORIGINAL GROUND ELEVATION. A CONVENTIONAL ABSORPTION FIELD SYSTEM (I.E., TRENCHES WITH DISTRIBUTION LINES AND AGGREGATE) IS DESIGNED AND CONSTRUCTED IN THE FILL AND ORIGINAL SOIL. PERCOLATION TEST RESULTS OF THE IN SITU FILL MATERIAL (I.E., AT THE BORROW PIT) SHALL BE USED TO ASSURE THAT THE PERMEABILITY OF THE FILL MATERIAL IS COMPATIBLE WITH THE ON-SITE SOIL PERMEABILITY.

CONSTRUCTION

GENERALLY, SITES WITH LARGE TREES, NUMEROUS SMALL TREES, OR LARGE BOULDERS ARE UNSUITABLE FOR A SHALLOW ABSORPTION TRENCH SYSTEM BECAUSE OF THE DIFFICULTY IN PREPARING THE SITE AND THE REDUCED INFILTRATION AREA BENEATH THE SYSTEM. IN AREAS WHICH ARE SUITABLE, ALL TREES AND STUMPS SHALL BE CUT AT GRADE AND REMOVED. OTHER VEGETATION (I.E., BRUSH, VINES, WEEDS, GRASS) SHALL BE CUT AS CLOSE TO GRADE AS POSSIBLE AND REMOVED. ALL LEAVES, LIMBS AND BOULDERS ABOVE GRADE SHALL ALSO BE REMOVED. ROOT STRUCTURE BELOW GRADE SHOULD NOT BE REMOVED. ROTOTILLING OR SOIL SCARIFICATION WITH CONSTRUCTION EQUIPMENT IS NOT RECOMMENDED.

HEAVY EQUIPMENT SHALL BE KEPT OUT OF THE ABSORPTION AREA. GRADE STAKES MAY BE USED TO DELINEATE THE LIMITS OF FILL AND PREVENT OVER-EXCAVATION OF ABSORPTION TRENCHES. FILL MATERIAL SHALL BE CAREFULLY PLACED WITHIN THE ABSORPTION AREA. THE EDGE OF THE FILL MATERIAL SHALL BE TAPERED FROM AT LEAST SIX FEET BEYOND ANY TRENCH TO ORIGINAL GRADE AT A SLOPE NO GREATER THAN ONE VERTICAL TO THREE HORIZONTAL. ON SLOPED SITES A DIVERSION DITCH OR BERM SHALL BE CONSTRUCTED ON THE UPHILL, SIDE OF THE FILL MATERIAL TO PREVENT SURFACE RUNOFF FROM ENTERING THE FILL. THE SHALLOW ABSORPTION TRENCH SYSTEM IS CONSTRUCTED IN THE FILL MATERIAL AND UPON OR IN EXISTING IN SITU SOIL. CONSTRUCTION OF TRENCHES AT LEAST SIX INCHES INTO EXISTING IN SITU SOIL IS PREFERRED TO UTILIZE A STABILIZED SIDEWALL INFILTRATIVE SURFACE.

DISTRIBUTION DEVICES

GENERAL INFORMATION

SEPTIC TANK OR AEROBIC UNIT EFFLUENT IS USUALLY CONVEYED TO MULTIPLE ABSORPTION FACILITIES (I.E., LATERALS). FOR THE TREATMENT SYSTEM TO FUNCTION PROPERLY THE SEPTIC TANK/AEROBIC UNIT EFFLUENT MUST BE EQUALLY DISTRIBUTED TO EACH LATERAL UTILIZING PROPERLY DESIGNED DISTRIBUTION DEVICES. SEVERAL TYPES OF DISTRIBUTION DEVICES MAY BE USED TO PERFORM THIS FUNCTION. DISTRIBUTION BOXES ARE MOST COMMONLY USED CONJUNCTION WITH ABSORPTION FIELDS. DISTRIBUTION BOXES MAY BE USED ON SLOPED SITES PROVIDED THE INVERTS OF THE OUTLETS ARE ALL AT THE SAME ELEVATION AND THE FIRST TEN FEET OF OUTLET LINES HAVE THE SAME SLOPE OR SPEED LEVELERS ARE USED. DROP MANHOLES WITH DISTRIBUTION LINES TO ABSORPTION TRENCHES AND SERIAL DISTRIBUTORS WITH ELBOW SECTIONS MAY BE USED WITH SERIAL ABSORPTION TRENCHES ON MODERATE TO STEEP SLOPES.

GRAVITY DISTRIBUTION

THE MAXIMUM LENGTH OF ABSORPTION LINES USED IN CONJUNCTION WITH GRAVITY DISTRIBUTION SHALL BE 60 FEET. GRAVITY PERFORATED DISTRIBUTION LINES SHALL BE INSTALLED WITH A SLOPE OF 1/16 TO 1/32 INCH PER FOOT. THE INVERTS OF PERFORATED DISTRIBUTION LINES SHALL NOT BE INSTALLED DEEPER THAN 24 INCHES BELOW GRADE.

DISTRIBUTION BOX

A DISTRIBUTION BOX IS USED TO EVENLY DISTRIBUTE SETTLED SEWAGE TO SUBSURFACE ABSORPTION LATERALS. DISTRIBUTION BOXES SHOULD BE INSPECTED ANNUALLY TO ASSURE THAT: (A) ALL OUTLET INVERTS ARE AT THE SAME ELEVATION; (B) EXCESSIVE SOLIDS ARE NOT FLOWING OUT OF THE SEPTIC TANK OR AERATION UNIT; AND, (C) ANY REQUIRED BAFFLE IS IN PLACE AS DESIGNED. FOR ACCESSIBILITY, IT IS NECESSARY THAT THE DISTRIBUTION BOX BE LOCATED AND HAVE A REMOVABLE COVER NOT MORE THAN 12 INCHES BELOW GRADE. WHERE, DUE TO SITE CONDITIONS, A DISTRIBUTION BOX MUST BE MORE THAN 12 INCHES BELOW GRADE, AN EXTENSION COLLAR SHALL BE INSTALLED TO HAVE THE COVER WITHIN 12 INCHES OF GRADE. THE LOCATION OF DISTRIBUTION BOX COVERS SHOULD BE IDENTIFIED BY INSTALLING A LOCATION STAKE FROM GRADE TOWARD THE COVER. SUCH STAKES PERMIT RAPID LOCATION FOR INSPECTION/MAINTENANCE WITH MINIMAL LANDSCAPE DISTURBANCE.

TO MINIMIZE FROST ACTION AND REDUCE THE POSSIBILITY OF MOVEMENT ONCE INSTALLED, DISTRIBUTION BOXES MUST BE SET ON A BED OF SAND OR PEA GRAVEL AT LEAST 12 INCHES DEEP. A 12 INCH BED OF AGGREGATE (3/4 TO 1 1/2 INCHES IN DIAMETER) MAY BE USED IN-LIEU-OF THE REQUIRED 12 INCH BED OF SAND OR PEA GRAVEL IF SPEED REVELERS ARE USED ON ALL OUTLETS. THE DROP BETWEEN INLET AND OUTLET INVERTS SHALL BE AT LEAST TWO INCHES. A BAFFLE IS REQUIRED AT THE INLET SIDE OF THE BOX WHEN THE SLOPE OF THE PIPE FROM THE SEPTIC TANK TO THE BOX EXCEEDS 1/2 INCH PER FOOT OR WHEN SIPHON DOSING IS USED. A PARTIALLY TRUNCATED SHORT SANITARY TEE WITH THE BASE TOWARD THE INLET OPEN OR CONTAINING PERFORATIONS MAY BE USED AS A BAFFLE SINCE IT MINIMIZES SHORT-CIRCUITING AND ENABLES ABSORPTION FIELD GASES TO FLOW BACK TO THE SEPTIC TANK AND THENCE UP THE SOIL STACK. WHEN SUCH SHORT SANITARY TEES ARE USED, A MINIMUM OF ONE INCH CLEARANCE BETWEEN THE UNDERSIDE OF THE DISTRIBUTION BOX COVER AND THE TOP OF THE SANITARY TEE SHALL BE PROVIDED TO PERMIT VENTING OF ABSORPTION FACILITY GASES.

THE INVERTS OF BOX OUTLETS SHALL BE AT LEAST TWO INCHES ABOVE THE BOTTOM OF THE BOX TO PREVENT SHORT-CIRCUITING AND REDUCE SOLIDS CARRY-OVER. USE OF ADJUSTABLE OUTLET REVELERS IS RECOMMENDED IN DISTRIBUTION BOXES. DISTRIBUTION BOXES MAY BE CONSTRUCTED IN PLACE OR PURCHASED PREFABRICATED. WHEN CONCRETE IS USED TO CONSTRUCT BOXES, IT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAY SET. PREFABRICATED BOXES MAY BE CONSTRUCTED OF CONCRETE, FIBERGLASS, OR PLASTIC. THE BOXES SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS IN ADDITION TO THE ABOVE-NOTED REQUIREMENTS.

NON-PERFORATED PIPE SHALL BE USED TO CONNECT THE DISTRIBUTION BOX TO THE ABSORPTION FACILITY. THE NON-PERFORATED PIPE SHALL HAVE A MINIMUM SLOPE OF 1/32 INCH PER FOOT AND BE OF TIGHT JOINT CONSTRUCTION ON UNDISTURBED EARTH OR PROPERLY BEDDED THROUGHOUT ITS LENGTH.

PRECAST REINFORCED CONCRETE SEPTIC TANKS

- A) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 POUNDS PER SQUARE INCH (PSI) AT 28 DAYS SET; 3,000 PSI CONCRETE IS RECOMMENDED.
- B) WALL THICKNESS SHALL BE A MINIMUM OF THREE INCHES UNLESS THE DESIGN HAS BEEN CERTIFIED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AS COMPLYING WITH ALL APPROPRIATE REQUIREMENTS FOR THIN-WALL CONSTRUCTION. ALL WALLS, FLOOR, ROOF, AND ACCESS COVERS SHALL CONTAIN REINFORCING TO ASSURE SUPPORT FOR 300 PSF.
- C) ALL JOINTS SHALL BE SEALED SUCH THAT THE TANK IS WATERTIGHT.
- D) TANKS WITH A JOINT BELOW THE LIQUID LEVEL MUST BE TESTED FOR WATERTIGHTNESS PRIOR TO BACKFILLING.

DESIGN AND INSTALLATION

THE FOLLOWING GENERAL REQUIREMENTS APPLY TO ALL SEPTIC TANKS REGARDLESS OF CONSTRUCTION MATERIAL:

- A) A MINIMUM LIQUID DEPTH OF 30 INCHES. THE MAXIMUM DEPTH FOR DETERMINING THE ALLOWABLE DESIGN VOLUME OF A TANK SHALL BE 60 INCHES. DEEPER TANKS PROVIDE EXTRA SLUDGE STORAGE BUT NO CREDITS GIVEN TOWARD DESIGN VOLUME.
- B) THE MINIMUM DISTANCE BETWEEN THE INLET AND OUTLET SHALL BE SIX FEET. ALL TANK SHALL MEET THE MINIMUM SURFACE AREA REQUIREMENT FOR THE SPECIFIC DESIGN VOLUME IN TABLE 3. THE EFFECTIVE LENGTH OF RECTANGULAR TANKS SHOULD NOT BE LESS THAN TWO OR GREATER THAN FOUR TIMES THE EFFECTIVE WIDTH.
- C) TANKS MUST BE WATERTIGHT, CONSTRUCTED OF DURABLE MATERIAL, AND NOT SUBJECT TO EXCESSIVE CORROSION, DECAY, FROST DAMAGE, OR CRACKING. WHEN INSTALLED, THE TOP OF ALL TANKS SHALL BE ABLE TO SUPPORT AT LEAST 300 POUNDS PER SQUARE FOOT (PSF).
- D) TANK ACCESS COVERS AND MANHOLE COVERS SHALL BE WITHIN 12 INCHES OF FINAL GRADE TO PERMIT INSPECTION AND MAINTENANCE. TANKS SHALL HAVE AT LEAST ONE MANHOLE OPENING AND VISUAL ACCESS OPENINGS ABOVE THE INLET AND OUTLET BAFFLES. A MANHOLE OPENING MAY REPLACE A VISUAL ACCESS OPENING. TANKS WITH A LIQUID DEPTH OF 48 INCHES OR MORE SHALL HAVE A TOP OPENING WITH A MINIMUM OF 20 INCHES IN THE SHORTEST DIMENSION TO ALLOW ENTRY INTO THE TANK. TANKS WITH A LIQUID DEPTH LESS THAN 48 INCHES SHALL HAVE A TOP OPENING THAT IS AT LEAST 12 INCHES IN THE SHORTEST DIMENSION. WHEN THE TOP OF A SEPTIC TANK IS MORE THAN 12 INCHES BELOW FINAL GRADE, WATERTIGHT EXTENSION COLLARS SHALL BE USED TO BRING ACCESS COVERS AND MANHOLE COVERS WITHIN 12 INCHES OF FINAL GRADE. SEPTIC TANK ACCESS COVERS LOCATED AT OR ABOVE GRADE SHOULD BE LOCKABLE TO PREVENT ENTRY BY UNAUTHORIZED PERSONS, ESPECIALLY CHILDREN.
- E) TANKS SHALL HAVE INLET AND OUTLET BAFFLES, SANITARY TEES OR OTHER DEVICES TO PREVENT THE PASSAGE OF FLOATING SOLIDS AND TO MINIMIZE DISTURBANCE OF SETTLED SLUDGE OR FLOATING SCUM BY SEWAGE ENTERING AND LEAVING THE TANK. OUTLET DESIGNS INCORPORATING GAS BUBBLE DEFLECTION (I.E., GAS DEFLECTION BAFFLES) ARE STRONGLY RECOMMENDED TO MINIMIZE SOLIDS LOADING OF THE ABSORPTION SYSTEM. INLET AND OUTLET BAFFLES SHALL EXTEND A MINIMUM OF 12 INCHES AND 14 INCHES, RESPECTIVELY, BELOW THE LIQUID LEVEL IN TANKS WITH A LIQUID DEPTH OF LESS THAN 40 INCHES, AND 16 AND 18 INCHES, RESPECTIVELY, IN TANKS WITH A LIQUID DEPTH OF 40 INCHES OR GREATER. THE HORIZONTAL DISTANCE BETWEEN THE OUTLET BAFFLE AND THE OUTLET SHALL NOT EXCEED SIX INCHES. BAFFLES SHALL BE CONSTRUCTED OF A DURABLE MATERIAL NOT SUBJECT TO EXCESSIVE CORROSION, DECAY, OR CRACKING. INCREASING THE DIAMETER OF THE VERTICAL SECTION OF OUTLET SANITARY TEES TO MORE THAN FOUR (4) INCHES IS RECOMMENDED TO DECREASE UPFLOW VELOCITY AND POTENTIAL DISCHARGE OF SUSPENDED SOLIDS TO THE ABSORPTION SYSTEM.
- F) THERE SHALL BE A MINIMUM OF ONE INCH CLEARANCE BETWEEN THE UNDERSIDE OF THE ROOF OF THE TANK AND THE TOP OF ALL BAFFLES, AND/OR TEES TO PERMIT VENTING OF TANK GASES. MULTI-CHAMBER AND MULTI-TANK SYSTEMS SHALL ALSO BE DESIGNED TO PERMIT VENTING OF TANK GASES.
- TANKS SHALL BE PLACED ON AT LEAST A THREE-INCH BED OF SAND OR PEA GRAVEL. THIS WILL PROVIDE FOR PROPER LEVELING AND BEARING. A FIVE-INCH BED OF AGGREGATE (3/4 TO 1-1/2 INCHES IN DIAMETER) MAY BE USED IN-LIEU-OF THE REQUIRED THREE INCH BED OF SAND OR PEA GRAVEL. ANY ADDITIONAL INSTRUCTIONS PROVIDED BY THE TANK MANUFACTURER SHALL ALSO BE FOLLOWED.
- G) THERE SHALL BE A MINIMUM DROP IN ELEVATION OF TWO INCHES BETWEEN THE INVERTS (BOTTOM OF INSIDE OF PIPE) OF THE INLET AND OUTLET PIPES.
- H) GARBAGE GRINDERS. AN ADDITIONAL 250 GALLONS OF CAPACITY AND SEVEN SQUARE FEET OF SURFACE AREA ARE REQUIRED WHEN A GARBAGE GRINDER CAN REASONABLY BE EXPECTED AT THE TIME OF CONSTRUCTION OR IN THE FUTURE. A GAS DEFLECTION BAFFLE OR OTHER ACCEPTABLE OUTLET MODIFICATION (E.G., GAS BAFFLES) AND A DUAL COMPARTMENT TANK OR TWO TANKS IN SERIES MUST ALSO BE PROVIDED.
- I) SEPTIC TANKS MAY BE FORCED TOWARD THE GROUND SURFACE DURING CLEANING OR DEWATERING OPERATIONS IF THEY HAVE BEEN INSTALLED WITHIN THE GROUND WATER ZONE. THIS IS CAUSED BY THE BUOYANCY EFFECT OF THE DISPLACED VOLUME OF THE TANK. SEPTIC TANKS SHOULD NOT BE COMPLETELY DEWATERED IF GROUND WATER LEVELS ARE SIGNIFICANTLY HIGHER THAN THE BOTTOM OF THE TANK UNLESS SAID TANKS ARE PROPERLY ANCHORED. TANKS CONSTRUCTED OF FIBERGLASS, PLASTIC, OR STEEL ARE MORE LIKELY TO FLOAT THAN REINFORCED CONCRETE TANKS BECAUSE OF THEIR LIGHTER WEIGHT PER GIVEN VOLUME.
- J) SPECIAL CARE MUST BE TAKEN IN BEDDING THE HOUSE SEWER, SEPTIC TANK, AND OUTLET LINE TO PREVENT UNEVEN SETTLEMENT AND POSSIBLE CRACKING OR RUPTURE WHERE THE INLET AND OUTLET LINES CONNECT TO THE SEPTIC TANK.

TABLE 2
REQUIRED SEPARATION DISTANCES FROM
WASTEWATER SYSTEM COMPONENTS

SYSTEM COMPONENTS	WELL OR SUCTION LINE	TO STREAM, LAKE WATERCOURSE OR WETLAND	DWELLING	PROPERTY LINE	DRAINAGE DITCH OR RAIN GARDENS
HOUSE SEWER (WATERTIGHT JOINTS)	25' IF CAST IRON OR PVC WITH O-RING JOINTS, 50' OTHERWISE	25'	3'	10'	10'
SEPTIC TANK, DOSING TANK WATERTIGHT ETU	50'	50'	10'	10'	10'
EFFLUENT LINE TO DISTRIBUTION BOX	50'	50'	10'	10'	10'
DISTRIBUTION BOX	100'	100'	20'	10'	20'
ABSORPTION FIELD	100'	100'	20'	10'	20'
RAISED SYSTEM OR MOUND	100'	100'	20'	10'	20'
INTERMITTENT SAND FILTER (C)	100'	100'	20'	10'	20'

GENERAL NOTES

- 1) ALL WORK SHALL CONFORM TO NYSDOH REGULATIONS AND STANDARDS.
- 2) ALL WORK SHALL BE INSPECTED AND CERTIFIED BY A LICENSED NYS PROFESSIONAL ENGINEER OR HIS REPRESENTATIVE.
- 3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKEOUT.
- 4) ALL AREAS WITHIN OR OUTSIDE THE EXISTING EASEMENTS OR ANY CONTRACT LIMITS DESIGNATED, THAT ARE DISTURBED BY CONTRACTORS OPERATIONS SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER.
- 5) CONTRACTOR SHALL CALL DIG SAFELY NY TWO WORKING DAYS BEFORE DIGGING. 1-800-962-7962 NON-MEMBERS MUST BE CONTACTED SEPARATELY.
- 6) THERE ARE NO GUARANTEE THAT ALL EXISTING UNDERGROUND OR OVERHEAD UTILITIES WHETHER FUNCTIONAL OR ABANDONED, WITHIN THE PROJECT AREA ARE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.
- 7) KEYSTONE ASSOCIATES ARCHITECTS, ENGINEERS AND SURVEYORS, LLC. IS NOT RESPONSIBLE FOR ANY CONSTRUCTION WORK PERFORMED PRIOR TO FINAL APPROVAL OF ALL PLANS AND SECURING OF ALL PERMITS AND FILING OF ALL MAPS.
- 8) CONTRACTOR TO COMPLY WITH ALL O.S.H.A. AND OTHER STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION. (PROPER SHORING, ETC.).
- 9) THE CONTRACTOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS. ANY ELEVATION DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED AS PART OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.

DESIGN BASIS: FOR ALL SYSTEMS (BASED ON ASSUMED 4 BEDROOMS)

- A) AVERAGE DAILY WATER USAGE: (SEE TABLE 1) 4 BEDROOM (440 GPD)
- B) SEPTIC TANK SIZE: (SEE TABLE 3) 4 BEDROOM (1250 GAL.)
- C) PERCOLATION TEST DATA: *
- REFER TO SHEET C220
- D) SHALLOW ABSORPTION TRENCHES
- REFER TO SHEET C220
- E) TEST PIT DATA: *
- REFER TO SHEET C220

* PERCOLATION TESTS AND TEST CUT PERFORMED IN NOVEMBER 18, 2019 BY KEYSTONE ASSOCIATES, ARCHITECTS, ENGINEERS AND SURVEYORS, LLC

TABLE I

DESIGN FLOWS FOR VARIOUS HOUSEHOLD PLUMBING FIXTURES

PLUMBING FIXTURES	DESIGN FLOWS GPD PER BEDROOM
WATER SAVING FIXTURES (POST 1991) 1.6 GPF MAX. WATER CLOSETS AND 3.0 GPM MAX. FAUCETS/SHOWERHEADS	110

TABLE 3

MINIMUM SEPTIC TANK CAPACITIES

NUMBER OF BEDROOMS 1, 2, OR 3	MINIMUM TANK CAPACITY (GALLONS)	MINIMUM LIQUID SURFACE AREA (SQ. FT.)
	1,000	27
4	1,250	34
5	1,500	40
6	1,750	47

NOTE:
TANK SIZE REQUIREMENTS FOR MORE THAN SIX BEDROOMS SHALL BE CALCULATED BY ADDING 250 GALLONS AND SEVEN SQUARE FEET OF SURFACE AREA FOR EACH ADDITIONAL BEDROOM. A GARBAGE GRINDER SHALL BE CONSIDERED EQUIVALENT TO AN ADDITIONAL BEDROOM FOR DETERMINING TANK SIZE. A HOT TUB/SPA SHOULD BE CONSIDERED EQUIVALENT TO AN ADDITIONAL BEDROOM FOR DETERMINING TANK SIZE.

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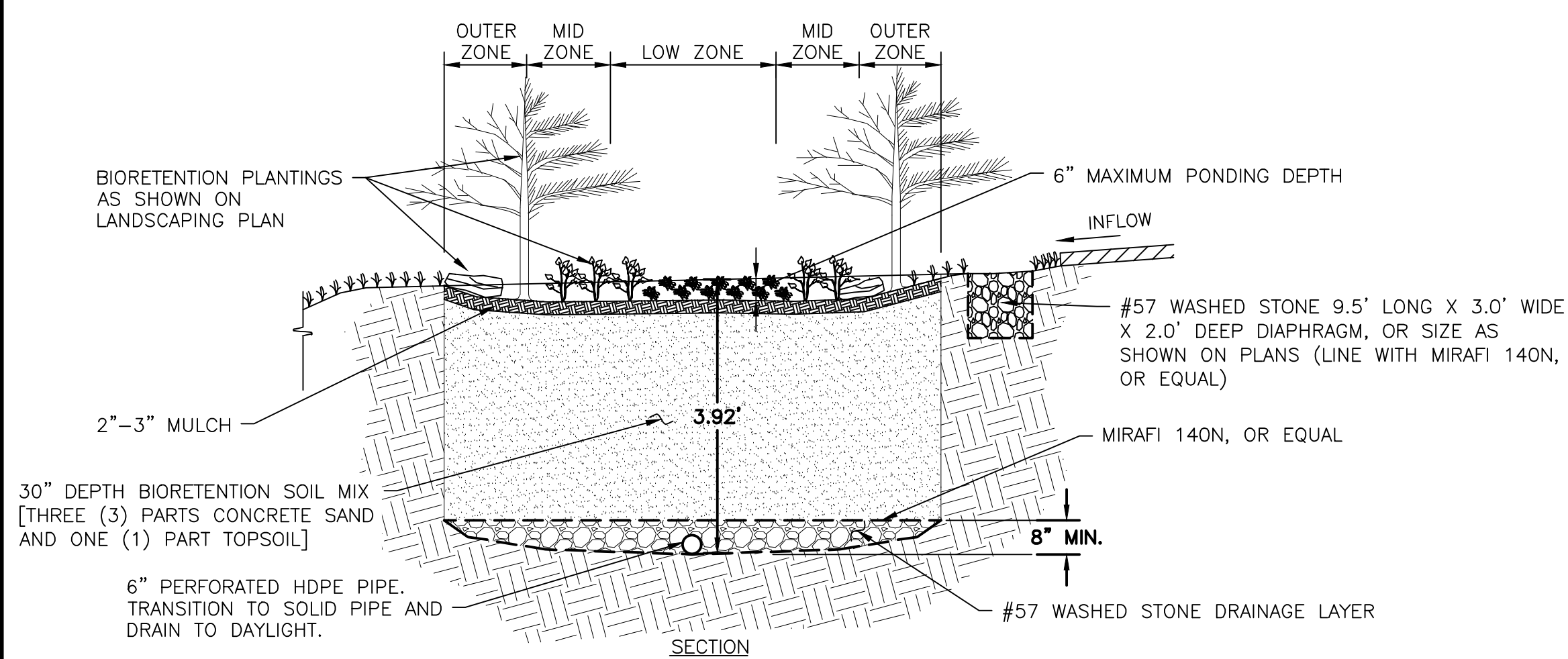
WARNING:
It is a violation of the Uniform
Professional Code of Ethics, Article
Section 10.1, to use the name of any
Professional Engineer, Professional
Architect, Professional Surveyor, or
Professional Geologist in connection
with the preparation of a plan, report,
or other document, unless the
individual has been authorized to do so.
2020
Keystone Associates
Architects, Engineers
and Surveyors, LLC

REVIEW REVISIONS	DATE
1	6/10/24
2	6/10/24

FORESTBURGH POND
NYS ROUTE 42

TOWN OF FORESTBURGH
SULLIVAN COUNTY, NY

SEWAGE DISPOSAL SYSTEM NOTES

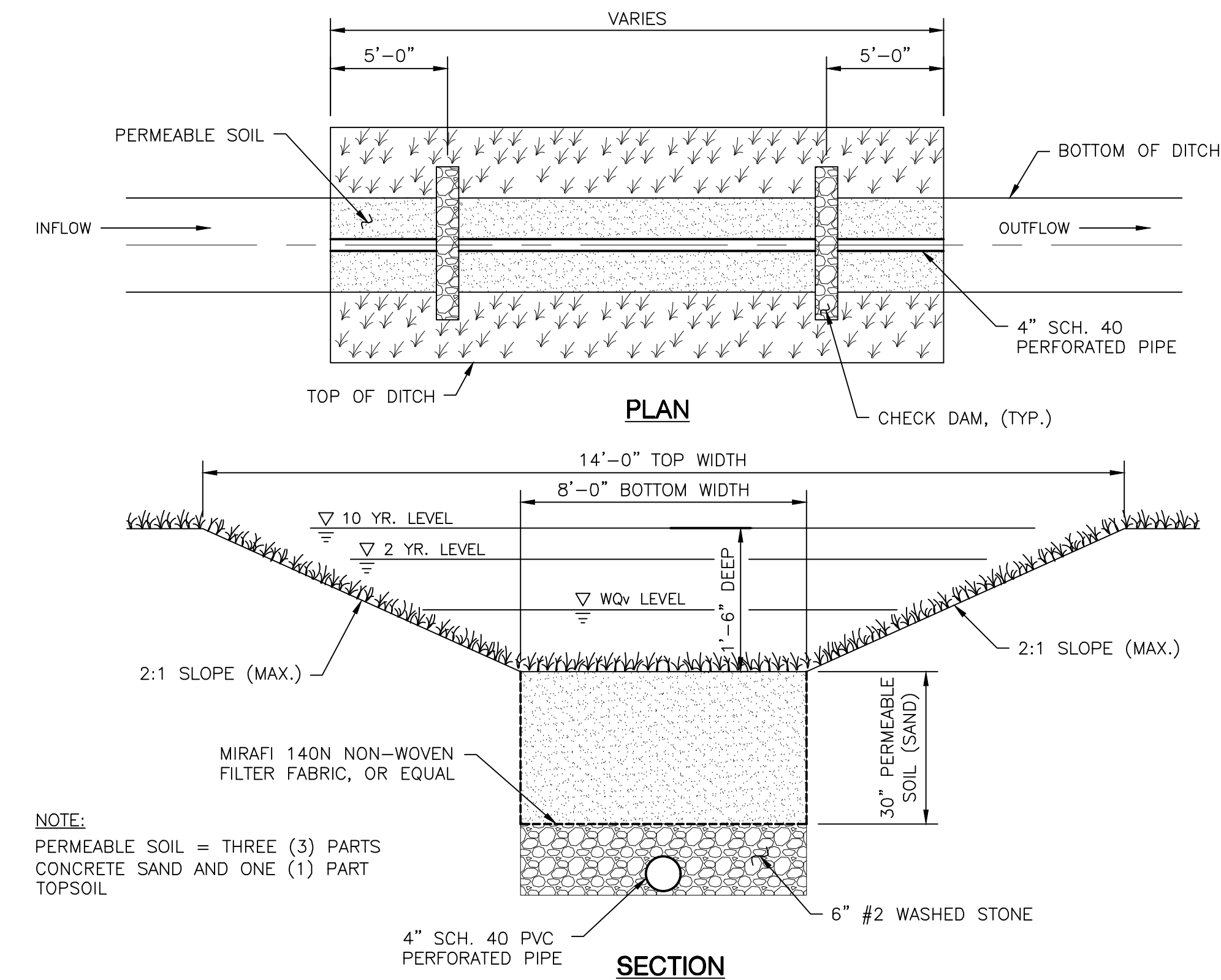


SUGGESTED PLANT LIST:

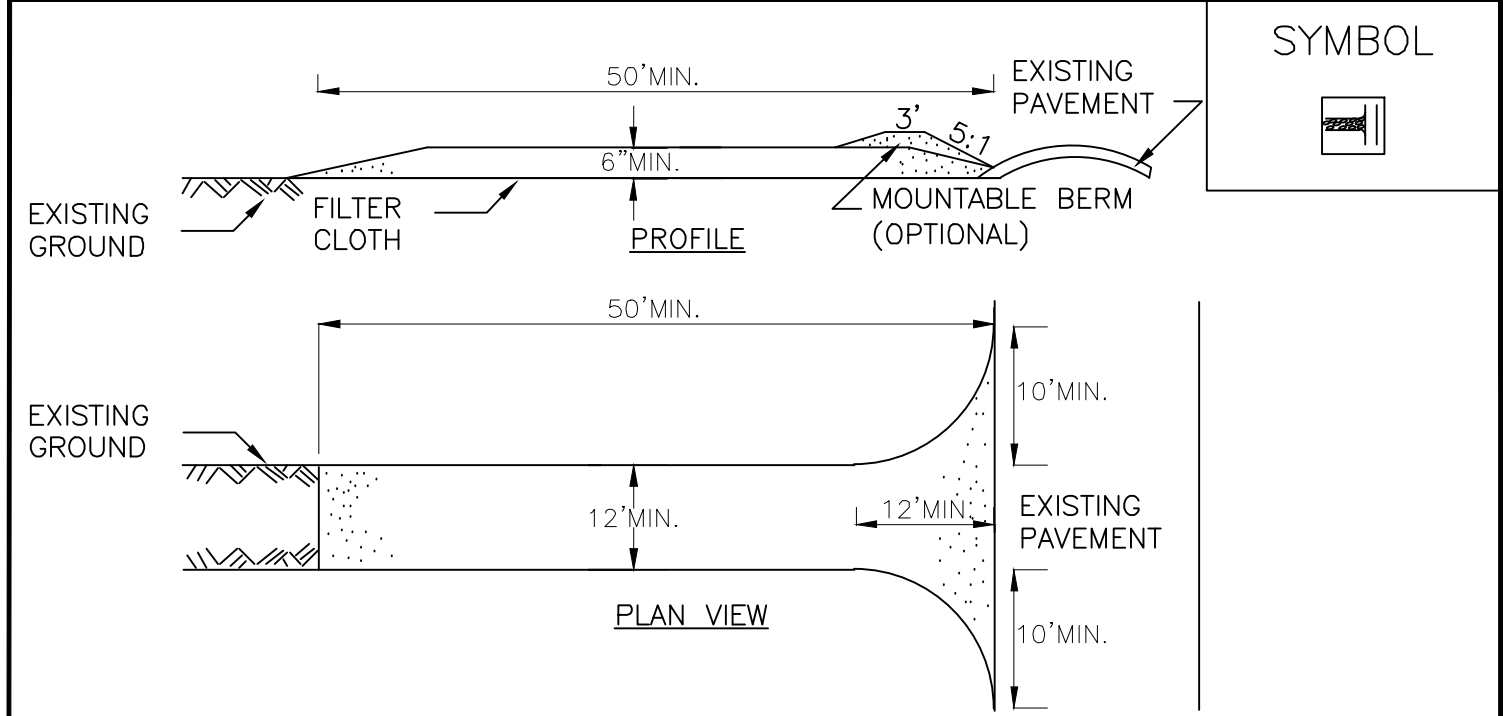
LOW ZONE	MID ZONE	OUTER ZONE
HERBACEOUS (PLANTED APPROXIMATELY 2.5' ON CENTER)	ARROW ARUM (PELTANDRA VIRGINICA)	
	BLUE FLAG IRIS (IRIS VERSICOLOR)	
	BLUE JOINT (CALAMAGROTIS CANADENSIS)	
	BROOMSEDGE (ANDROPOGON VIRGINICUS)	
	CARDINAL FLOWER (LOBELIA CARDINALIS)	CARDINAL FLOWER (LOBELIA CARDINALIS)
	COMMON THREE-SQUARE (SCIRPUS PUNGENS)	
	FOWL MANNAGRASS (GLYCERIA STRIATA)	
	HARDSTEM BULRUSH (SCIRPUS ACUTUS)	
	LIZARD'S TAIL (SAURURUS CERNUUS)	
	PICKERELWEED (PONTEDERIA CORDATA)	
	REDTOP (AGROSTIS ALBA)	REDTOP (AGROSTIS ALBA)
	RICE CUTGRASS (LEERSIA ORYZOIDES)	
	SEDGES (CAREX SPP.)	
	SOFT RUSH (JUNCUS EFFUSUS)	SOFT RUSH (JUNCUS EFFUSUS)
	SPATTERDOCK (NUPHAR LUTEUM)	
	SWITCHGRASS (PANICUM VIRGATUM)	SWITCHGRASS (PANICUM VIRGATUM)
	SWEET FLAG (ACORUS CALAMUS)	

NOTES:
- CHOOSE PLANTINGS FROM THE ABOVE LIST TO RESEMBLE A RANDOM AND NATURAL SYSTEM AND TO ESTABLISH A DIVERSE, DENSE PLANT COVER TO TREAT STORM WATER RUNOFF AND WITHSTAND URBAN STRESSES FROM INSECT AND DISEASE INFESTATIONS, DROUGHT, TEMPERATURE, WIND AND EXPOSURE.

1 BIORETENTION DETAIL
C230 N.T.S.



4 DRYSWALE DETAIL
C230 N.T.S.



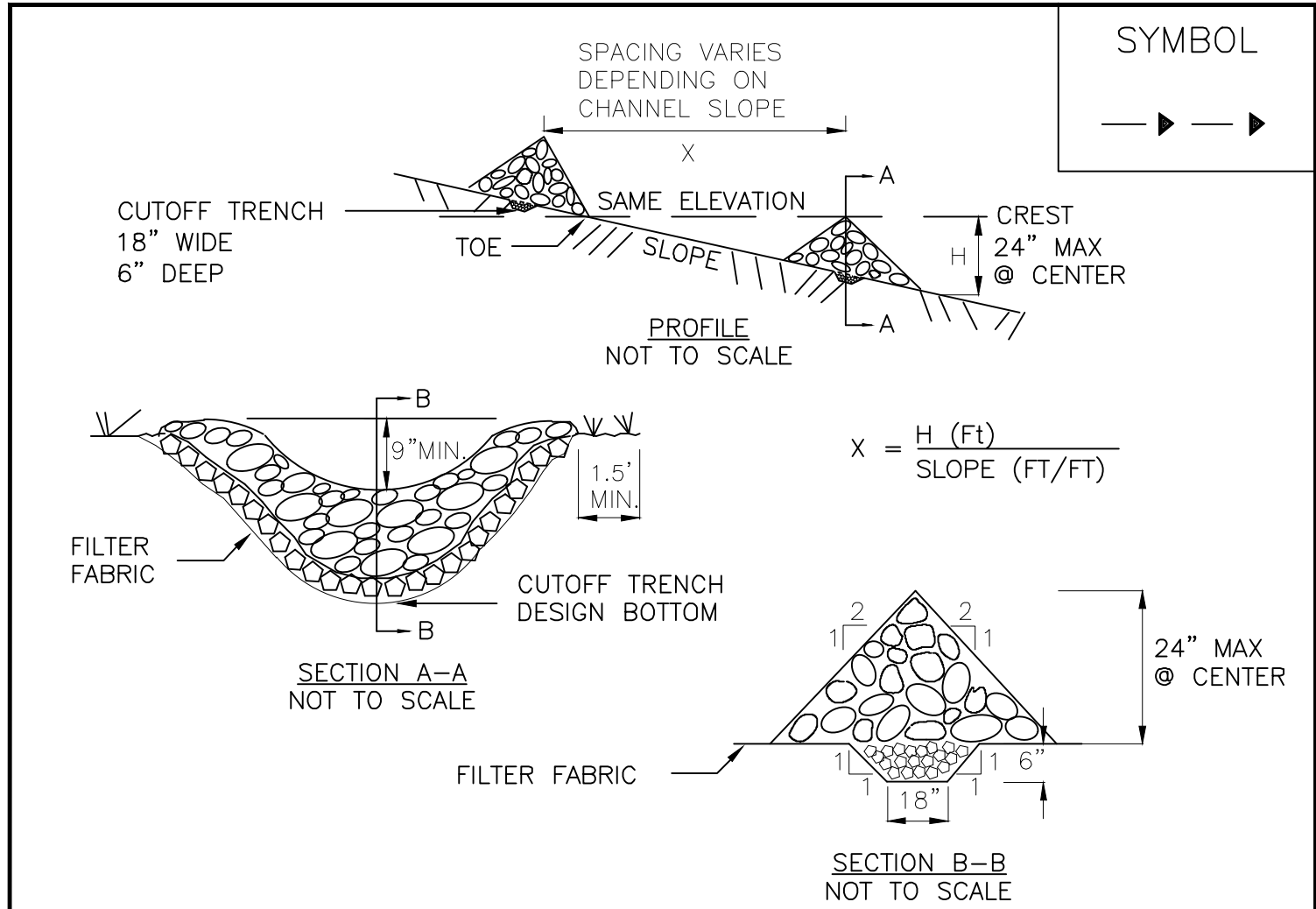
CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 1-4 INCH 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.
- GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH 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.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED
CONSTRUCTION
ACCESS

2 STABILIZED CONSTRUCTION ACCESS
C230 N.T.S.



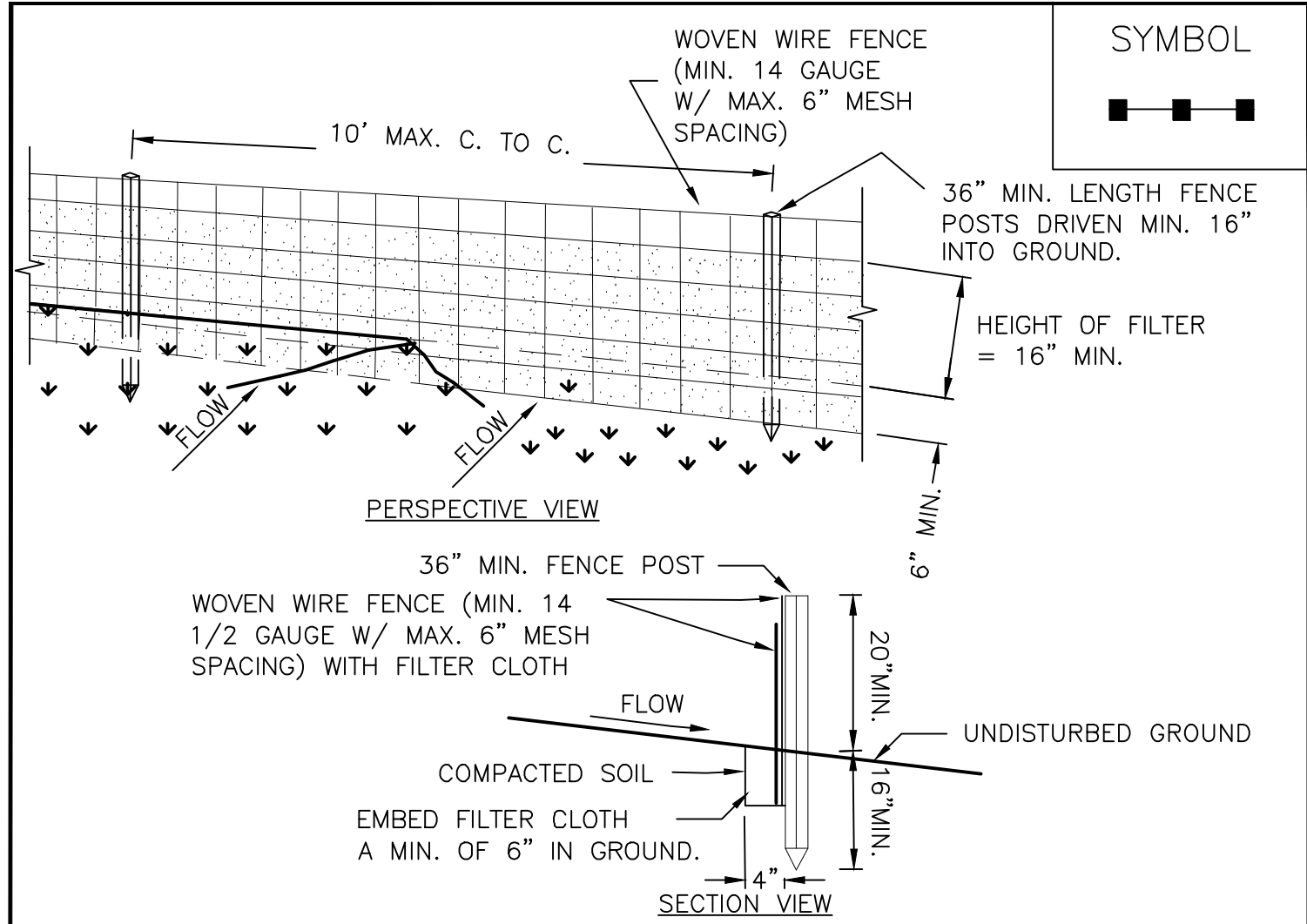
CONSTRUCTION SPECIFICATIONS

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

CHECK DAM

5 CHECK DAM DETAIL
C230 N.T.S.



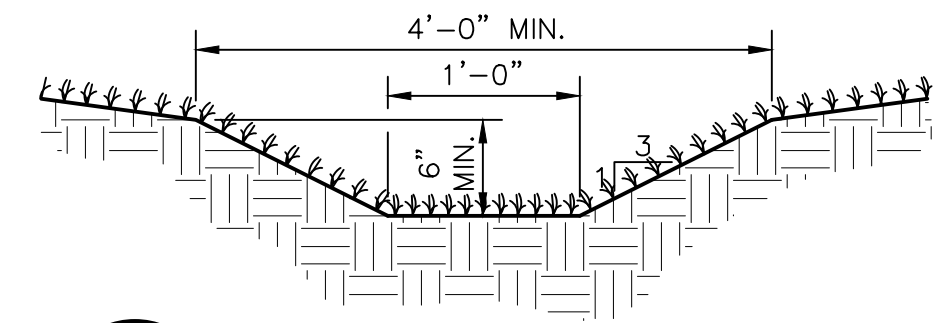
CONSTRUCTION SPECIFICATIONS

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "I" OR "U" 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, 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 GEOTAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

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NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE

3 SILT FENCE
C230 N.T.S.



6 CUTOFF SWALE DETAIL
C230 N.T.S.

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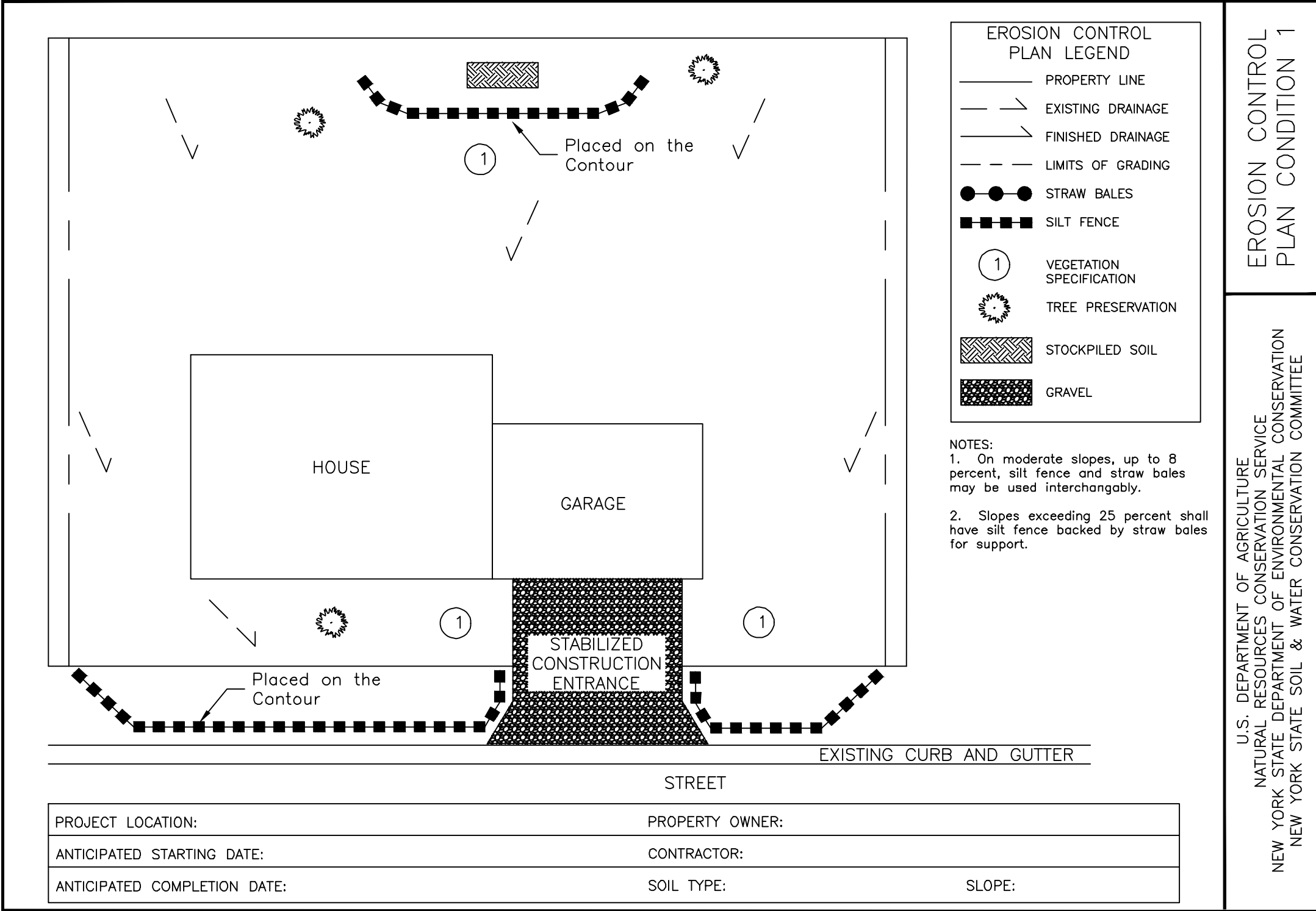
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ASSOCIATES
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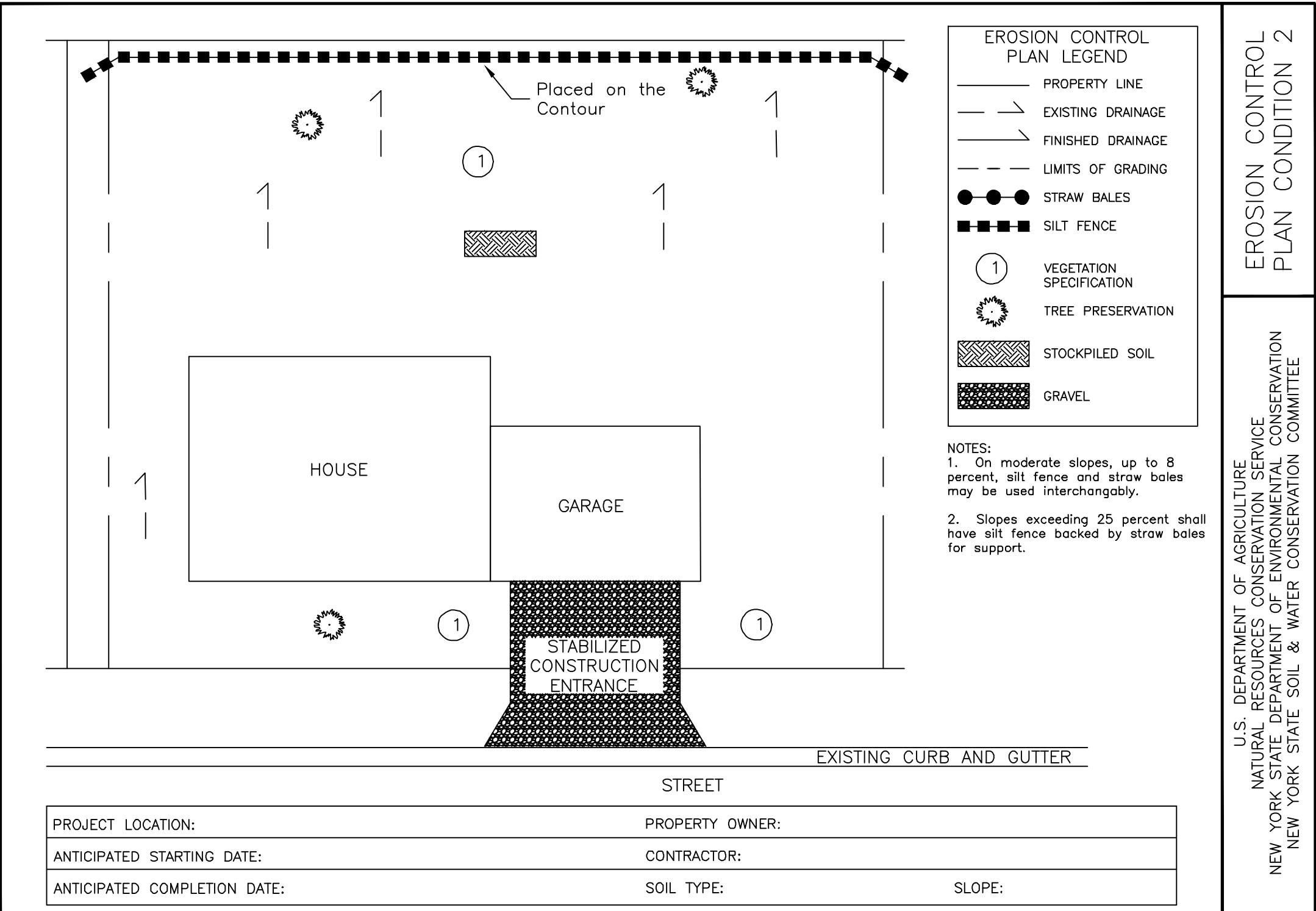
NO.	REVISION	DATE	BY
1	REVISION	4/10/20	KEYSTONE ASSOCIATES
2	REVISION	4/10/20	KEYSTONE ASSOCIATES

FORESTBURGH POND
NYS ROUTE 42
SULLIVAN COUNTY, NY
TOWN OF FORESTBURGH
STORMWATER DETAILS

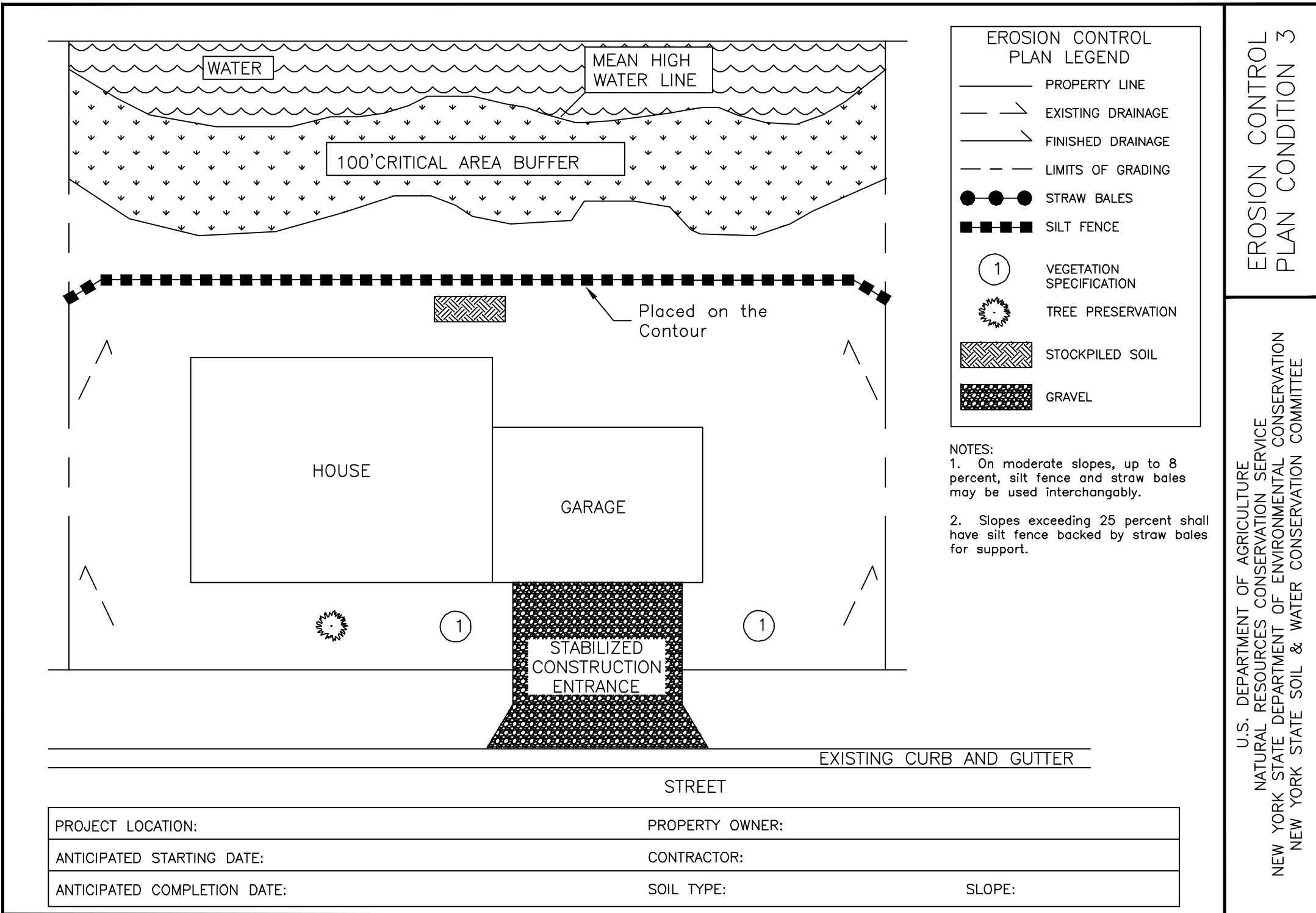
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PROJECT NO.
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01/10/2020
SHEET NO.
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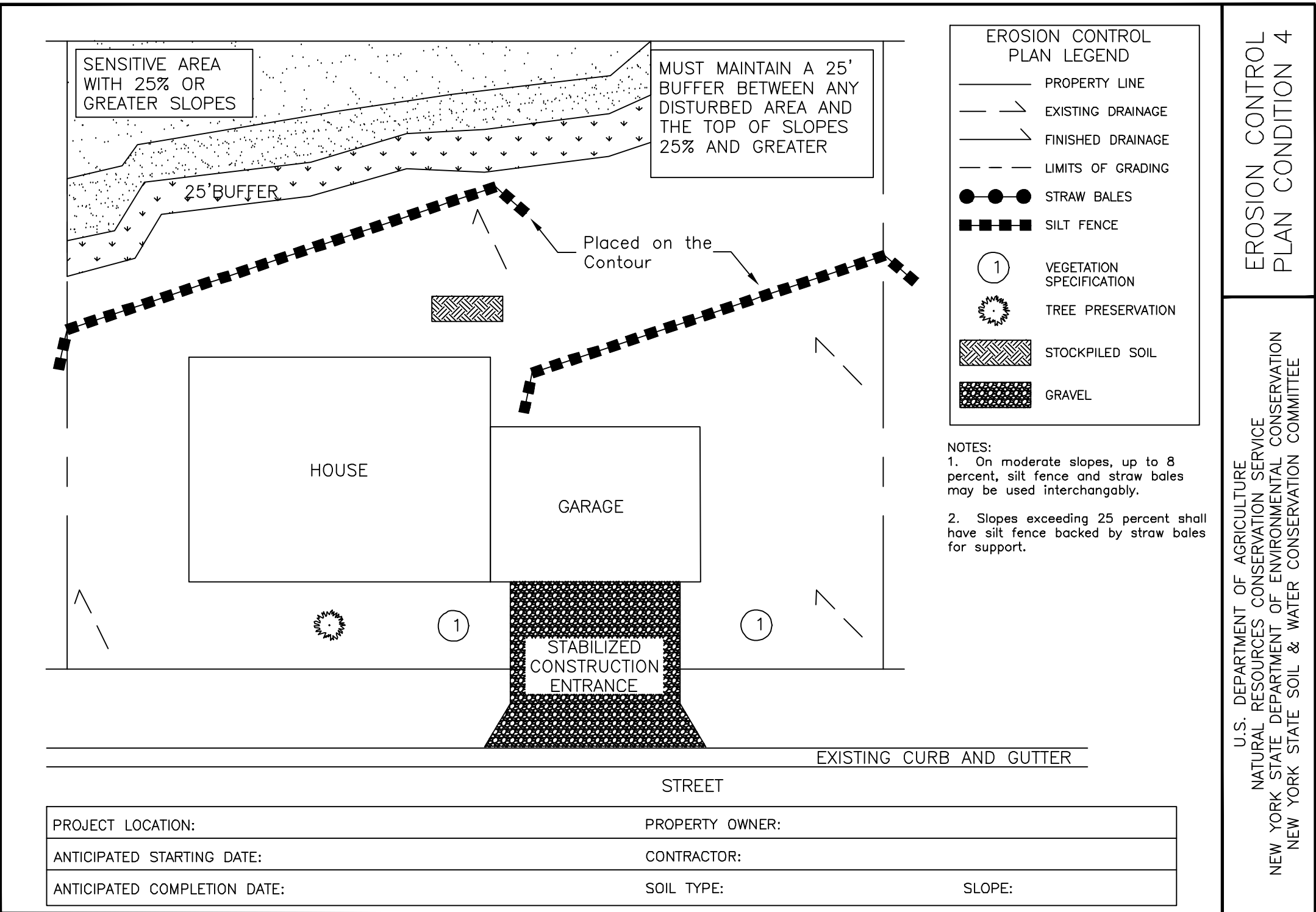
1 INDIVIDUAL HOME TYPICAL EROSION CONTROL PLAN CONDITION 1
C240 N.T.S.



2 INDIVIDUAL HOME TYPICAL EROSION CONTROL PLAN CONDITION 2
C240 N.T.S.



3 INDIVIDUAL HOME TYPICAL EROSION CONTROL PLAN CONDITION 3
C240 N.T.S.



4 INDIVIDUAL HOME TYPICAL EROSION CONTROL PLAN CONDITION 4
C240 N.T.S.

NOT FOR CONSTRUCTION