

# BULLARD LANE RESIDENTIAL SUBDIVISION

TOWN OF WILTON \* SARATOGA COUNTY \* NEW YORK

**GENERAL NOTES:**

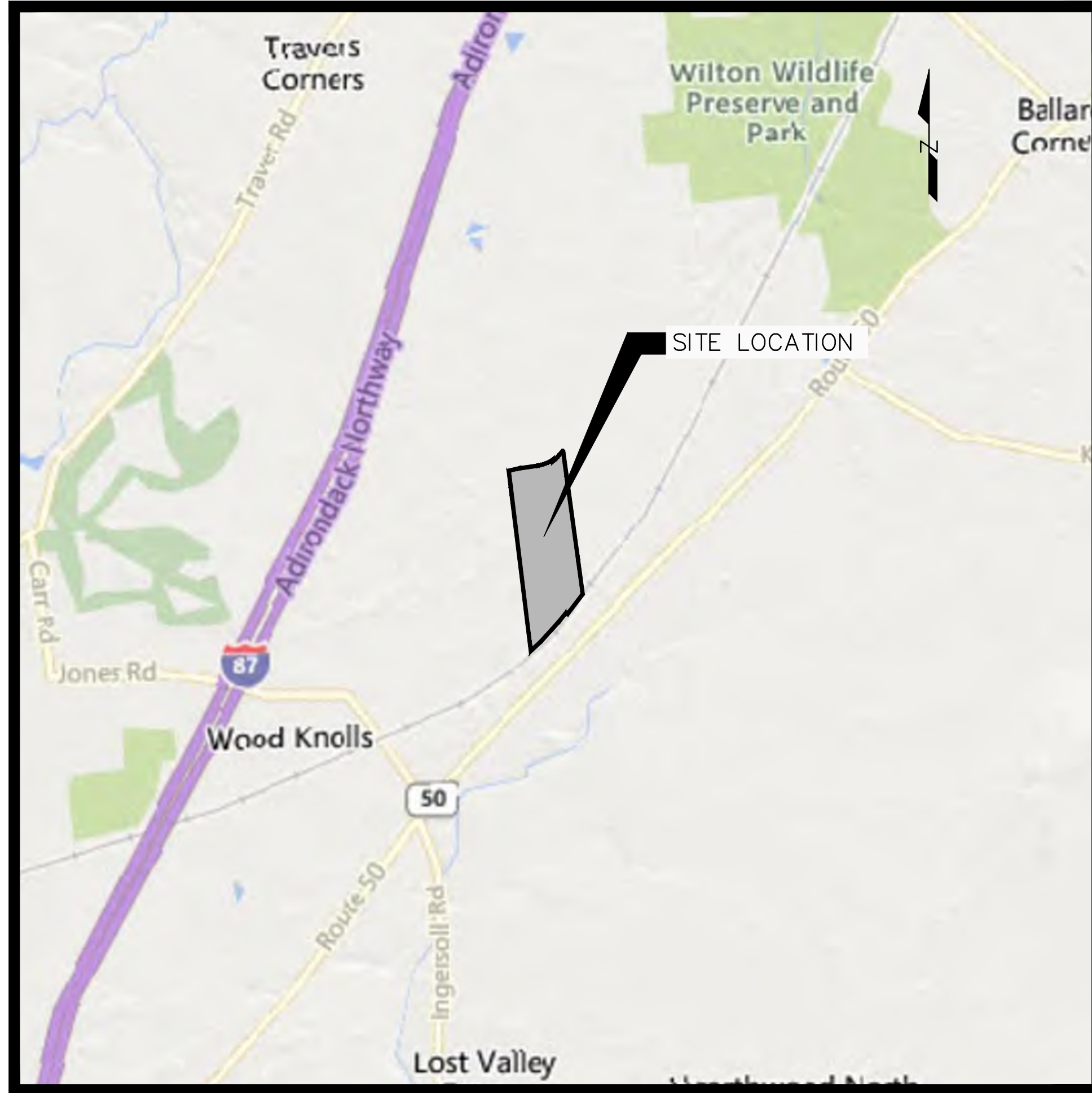
- ENGINEERING DRAWINGS BASED ON A BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY THOMPSON & FLEMING LAND SURVEYOR, P.C. ENTITLED "SUBDIVISION MAP FOR ESTATE OF LOUIS VENTRE", DATED OCTOBER 10, 2013. WETLANDS INFORMATION BASED ON IN-FIELD SURVEY CONDUCTED BY GILBERT VANGULDER LAND SURVEYOR, PLLC, DATED NOVEMBER 14, 2025.
- ALL TRAFFIC SIGNAGE FOR THE PROPOSED DEVELOPMENT SHALL CONFORM TO THE CURRENT VERSIONS OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE NEW YORK STATE SUPPLEMENTAL.
- ALL RIP-RAP STRUCTURES SHOWN SHALL BE CONSTRUCTED OF D STONE FILLING (UNLESS NOTED OTHERWISE).
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR URBAN EROSION AND SEDIMENT CONTROL AND IMPLEMENTED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.
- ALL DISTURBED AREAS TO RECEIVE TOPSOIL, SEED, FERTILIZER AND MULCH TO ESTABLISH A PERMANENT STAND OF GRASS.
- THE PROPOSED ROADWAYS WILL BE DEDICATED TO THE TOWN OF WILTON FOLLOWING CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE ROADWAYS BY THE TOWN IN ACCORDANCE WITH THE TOWN OF WILTON ROADWAY DEDICATION REQUIREMENTS AND PROCEDURES. FOLLOWING DEDICATION THE TOWN OF WILTON WILL OWN AND MAINTAIN THE PROPOSED ROADWAYS.
- SIZE AND LOCATION OF UNDERGROUND UTILITIES ARE SUBJECT TO VERIFICATION BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFELY N.Y. OR 811 FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO THE START OF EXCAVATION.
- ALL KNOWN UTILITIES THAT EXIST ON OR ADJACENT TO THE PROJECT SITE HAVE BEEN SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AND PRESERVE EXISTING UTILITIES.
- ALL UTILITIES DAMAGED OR DISTURBED BY THE WORK OF THIS CONTRACT SHALL BE REPLACED IN KIND BY THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY AS REQUIRED BY THE MUNICIPALITY AND ALL PERMITS REQUIRED FOR UTILITY WORK ON-SITE FROM THE TOWN.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK ON-SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THERE SHALL BE NO CHANGES ON THESE PLANS IN ADVANCE OF, OR CONSTRUCTION WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER, THE OWNER AND THE MUNICIPALITY.
- ALL CONSTRUCTION SHALL CONFORM TO GENERALLY ACCEPTED CONSTRUCTION STANDARDS OR A.D.B.E.
- THE CONTRACTOR SHALL COMPLY WITH CONSTRUCTION INSPECTION REQUIREMENTS OF ALL AGENCIES, AND PHASE WORK ACCORDINGLY.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- FIELD ADJUSTMENT MUST BE REVIEWED BY A REPRESENTATIVE OF LANSING ENGINEERING PRIOR TO INSTALLATION.
- PROTECT NEWLY GRADED WORK AREAS FROM TRAFFIC AND EROSION, AND KEEP THEM FREE FROM TRASH AND DEBRIS UNTIL PHYSICAL COMPLETION OF WORK.
- CONTRACTORS OPERATIONS ON SITE WHICH SHALL INCLUDE BUT NOT BE LIMITED TO DUST CONTROL, MATERIAL HAULING, FIRE PROTECTION, EROSION CONTROL, ETC. SHALL BE CONDUCTED IN ACCORDANCE WITH TOWN OF WILTON REQUIREMENTS.
- LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF WORK; IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK OPERATIONS.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF WILTON SUBDIVISION REGULATIONS AND CONSTRUCTION STANDARDS.
- THE TOWN OF WILTON SHALL HAVE OWNERSHIP AND MAINTENANCE RESPONSIBILITIES OF THE PROPOSED STORM WATER SYSTEM AND STORMWATER MANAGEMENT AREAS.
- THE CONTRACTOR SHALL COORDINATE MAINTENANCE AND PROTECTION OF TRAFFIC WITH THE TOWN OF WILTON AND SARATOGA COUNTY DEPARTMENT OF PUBLIC WORKS. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. ALL NECESSARY SIGNAGE SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY WORK EASEMENTS THAT MAY BE REQUIRED FOR EXCAVATION AND ASSOCIATED DISTURBANCE OUTSIDE OF THE RIGHT-OF-WAY ON ADJACENT PRIVATE LANDS.
- ALL WATERMAIN MATERIALS SHALL CONFORM TO THE TOWN OF WILTON WATER & SEWER AUTHORITY STANDARDS AND APPLICABLE AWWA STANDARDS.
- WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED WITH AWWA STANDARDS FOR DISINFECTING WATER MAINS, C-651-14, WITH THE EXCEPTION OF SECTION 5.1, TABLET METHOD. FINAL FLUSHING OF THE HEAVILY CHLORINATED WATER GENERATED FROM THE WATER MAIN DISINFECTING PROCESS SHALL BE NEUTRALIZED AND DISPOSED OF IN ACCORDANCE WITH AWWA STANDARDS FOR DISINFECTING WATER MAINS, C-651-14.
- HYDRANT WEEP HOLE DRAINS SHALL BE PLUGGED WHENEVER SEASONAL HIGH GROUNDWATER IS ENCOUNTERED LESS THAN OR EQUAL TO 7 FEET BELOW THE GROUND SURFACE. HYDRANTS WITH PLUGGED WEEP HOLE DRAINS SHALL BE TAGGED WITH A BRASS TAG INDICATING "WEEP HOLES ARE PLUGGED".
- WATERMANS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH SECTION 4 OF THE AWWA C-600 LATEST EDITION.
- WATER METERS FOR EACH INDIVIDUAL RESIDENTIAL UNIT SHALL BE PLACED ON THE SERVICE LATERAL IN THE RESPECTIVE RESIDENTIAL UNIT PRIOR TO ANY DISCHARGE POINTS WITH MATERIALS IN ACCORDANCE WITH THE TOWN OF WILTON WATER & SEWER AUTHORITY STANDARDS AND ALL APPLICABLE AWWA STANDARDS.
- ALL HYDRANTS INSTALLED AS PART OF THE BISS PARCEL RESIDENTIAL SUBDIVISION SHALL BE TAGGED WITH BRASS TAGS STATING "HYDRANT NOT INTENDED FOR FIRE FLOW USE" OR SIMILAR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND COORDINATE ANY REQUIRED BRACING OR RELOCATION OF ANY UTILITY POLE OR STRUCTURE WITH THE APPROPRIATE UTILITY COMPANY.
- ALL FILL TO ACHIEVE THE PROPOSED ELEVATIONS SHALL BE COMPACTED TO 95% PROCTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND COORDINATION OF THE TESTING AND DOCUMENTATION OF THE FILL MATERIAL AND THE COMPACTION OF THE FILL MATERIAL.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE SURFACE OF ALL EXISTING ROADWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURFACE RESTORATION AND REPAIR RESULTING FROM THE CONTRACTOR'S ACTIVITIES. TREE TRIMMING SHALL BE PERFORMED BY THE CONTRACTOR AS NECESSARY WITHIN THE RIGHT-OF-WAY OR UTILITY EASEMENTS. ALL DISTURBED UTILITIES, DRIVEWAY CULVERTS, LAWNS, MALBOKES, FENCES, SIGNS, DRIVEWAYS, DITCHES ETC. SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION, LINES, GRADES AND POSITIONS.
- ALL DISTURBANCE LIMITS AND SETBACKS SHALL BE STAKED OR FLAGGED IN THE FIELD PRIOR TO BEGINNING GRADING AND CLEARING ACTIVITIES.
- THE TOWN OF WILTON WATER & SEWER AUTHORITY SHALL BE RESPONSIBLE FOR THE OWNERSHIP AND MAINTENANCE OF THE WATER LINES.
- THE PROPOSED ROAD WIDTH FOR ALL THE PROPOSED ROADS IS TWO 12' TRAVEL LANES WITH 3' GRAVEL SHOULDERS ON EACH SIDE, TOTALING 30'.
- CURB STOPS SHALL NOT BE LOCATED WITHIN DRIVEWAYS.
- UTILITIES SHALL NOT BE INSTALLED UNDER PROPOSED DRIVEWAYS.
- THE FINAL LOCATIONS FOR ALL PROPOSED STREET SIGNS WILL BE SUBJECT TO APPROVAL BY THE TOWN HIGHWAY SUPERINTENDENT.
- STREET OPENING PERMITS MUST BE OBTAINED FROM THE TOWN OF WILTON HIGHWAY DEPT. AND SARATOGA COUNTY DEPARTMENT OF PUBLIC WORKS, PRIOR TO CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE LOCATION OF ALL EXISTING UTILITY POLES, OVERHEAD UTILITIES AND UNDERGROUND UTILITIES ON THE SITE SHALL BE DETERMINED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER. THE COORDINATION AND COST FOR THE RELOCATION OR MODIFICATION OF ANY UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE COSTS FOR THIS UTILITY WORK SHALL BE PROVIDED TO THE OWNER AND DESIGN ENGINEER FOR REVIEW.
- LIMITS OF ALL WASTEWATER DISPOSAL SYSTEMS (WSDS) TO BE ROPED OFF PRIOR TO AND AFTER SYSTEM INSTALLATION TO PREVENT HEAVY EQUIPMENT FROM COMPACTING THE NATURAL USABLE SOIL AND DAMAGE TO THE OF ABSORPTION TRENCHES. PERCOLATION TESTS AT EACH WSDS SITE TO BE PERFORMED PRIOR TO WSDS CONSTRUCTION TO CONFIRM THAT SOIL COMPACTION FROM CONSTRUCTION ACTIVITIES HAS NOT OCCURRED.
- ANY DISCREPANCIES NOTED DURING CONSTRUCTION SHOULD BE REPORTED TO ENGINEER AND WWSA

**TOWN OF WILTON STANDARD NOTES FOR SUBDIVISION PLATS:**

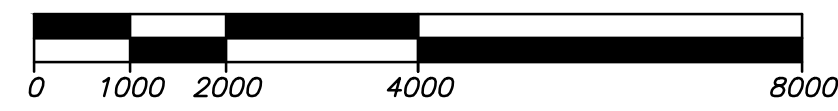
- THE DEVELOPER SHALL FURNISH EACH PURCHASER OF A LOT WITH A COPY OF THE APPROVED SUBDIVISION PLAT.
- THE DEVELOPER SHALL FURNISH EACH PURCHASER OF A LOT ON WHICH WATER SUPPLY AND/OR SEWAGE TREATMENT FACILITIES WERE INSTALLED WITH A REPRODUCTION OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT PLAN DEPICTING ALL INSTALLED SANITARY FACILITIES. PRIOR TO INSTALLATION OF ON-SITE SEWAGE TREATMENT FACILITIES, A LOT-SPECIFIC SEPTIC SYSTEM DESIGN SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO ISSUANCE OF THE BUILDING PERMIT.
- THE DEVELOPER SHALL FURNISH EACH PURCHASER OF A LOT ON WHICH THERE WAS NOT WATER SUPPLY AND/OR SEWAGE TREATMENT FACILITIES INSTALLED WITH A REPRODUCTION OF THE APPROVED PLANS AND SHALL NOTIFY THE PURCHASER OF THE NECESSITY OF INSTALLING SUCH FACILITIES IN ACCORDANCE WITH THE APPROVED PLANS.
- THE SANITARY FACILITIES ON THESE LOTS SHALL BE INSPECTED FOR COMPLIANCE WITH THE APPROVED PLANS AT THE TIME OF CONSTRUCTION BY A NEW YORK LICENSED PROFESSIONAL (P.E., R.A., OR EXEMPT L.S.) AND WRITTEN CERTIFICATION TO THAT EFFECT SHALL BE SUBMITTED TO THE NYSDOH - GLENS FALLS DISTRICT OFFICE AND THE TOWN OF WILTON BUILDING CODE ENFORCEMENT OFFICE WITHIN 30 DAYS AND PRIOR TO OCCUPANCY. THIS APPLIES TO BOTH WATER SUPPLY AND WASTEWATER TREATMENT SYSTEMS.
- INDIVIDUAL WELLS AND SEWAGE TREATMENT SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED FOR HOUSEHOLD DOMESTIC PURPOSES WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWERAGE SYSTEM IS REQUIRED WITHIN ONE YEAR OF THE SYSTEM(S) BECOMING AVAILABLE.
- BEFORE ISSUANCE OF A BUILDING PERMIT FOR EACH LOT, THE PERMANENT WELL SHALL BE SAMPLED BY AN INDEPENDENT TESTING LABORATORY AND SUCCESSFULLY TESTED FOR WATER FLOW AND COLIFORM BACTERIA, PER NYSDOH STANDARDS. RESULTS SHALL BE FORWARDED TO THE TOWN OF WILTON BUILDING DEPARTMENT.
- CERTIFICATION OF SEASONAL HIGH GROUNDWATER ELEVATION BY A LICENSED PROFESSIONAL (P.E., OR P.L.S.) INDICATING THE BASEMENT OR SLAB ELEVATION OF ALL BUILDINGS IS REQUIRED TO BE A MINIMUM OF THREE (3) FEET ABOVE THE SEASONAL HIGH GROUNDWATER TABLE ELEVATION. ALL BUILDINGS CONSTRUCTED WITH A BASEMENT SLAB ELEVATION BETWEEN THREE (3) AND FIVE (5) FEET ABOVE SEASONAL HIGH GROUNDWATER TABLE ELEVATION SHALL BE EQUIPPED WITH SLUMP PUMPS WHICH DISCHARGE TO A CLOSED DRAINAGE SYSTEM OR AN ADEQUATE OUTFALL AS APPROVED BY THE LICENSED PROFESSIONAL AND BUILDING INSPECTOR OF THE TOWN OF WILTON.
- ALL LOTS SHALL BE GRADED TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. NO ISOLATED LOW AREAS SHALL BE CREATED UNLESS DESIGNED AS SUCH. THE DRAINAGE PATTERNS CREATED SHALL NOT ADVERSELY AFFECT ADJOINING PROPERTIES OR DOWNSTREAM DRAINAGE FACILITIES.
- THE TOTAL TRAFFIC MITIGATION FEE IS DUE BEFORE FINAL APPROVAL AND BEFORE ISSUANCE OF THE FIRST BUILDING PERMIT.
- THIS PROPERTY MAY BORDER A FARM AS DEFINED IN THE TOWN OF WILTON'S RIGHT TO FARM LAW. RESIDENTS SHOULD BE AWARE THAT FARMERS HAVE THE RIGHT TO UNDERTAKE FARM PRACTICES WHICH MAY GENERATE DUST, ODOR, SMOKE, NOISE, AND VIBRATION.
- ALL STUMPS, GRUBBINGS, LOGS, AND LIMBS GENERATED FROM THIS PROJECT SHALL BE HAULED OFF-SITE AND DISPOSED OF PROPERLY. CHIPPING/TUB GRINDINGS OF THIS MATERIAL ON-SITE WILL BE ALLOWED IN LIEU OF OFF-SITE DISPOSAL, IF APPROVED BY THE PLANNING BOARD. THESE GRINDINGS SHALL NOT BE DISPOSED OF ON ANY DEFINED OPEN SPACE AREAS.
- THE P.E. OR R.L.A.'S STAMP AND SIGNATURE ON THESE PLANS HEREBY CERTIFIES THAT THESE PLANS CONFORM TO THE REQUIREMENTS OF THE TOWN OF WILTON'S STORMWATER LAW.
- ROADWAY PAVING IS ONLY ALLOWED FROM APRIL 1 TO NOVEMBER 1. SEE TOWN CODE SECTION 109-29 FOR ROAD CONSTRUCTION REQUIREMENTS. ANY STRUCTURES IN ROADWAY SHALL BE SET X" BELOW BINDER AND A RISER RING INSTALLED FOR TOP COURSE PAVING.

**NYSDOH REALTY SUBDIVISION CONDITIONS OF APPROVAL:**

- THAT THE PROPOSED FACILITIES FOR WATER SUPPLY AND SEWAGE COLLECTION ARE INSTALLED IN CONFORMITY WITH SAID PLANS.
- THAT NO LOT OR REMAINING LAND SHALL BE SUBDIVIDED WITHOUT PLANS FOR SUCH RESUBDIVISION BEING SUBMITTED TO AND APPROVED BY THE NEW YORK STATE DEPARTMENT OF HEALTH.
- THAT THE DEVELOPER SHALL FURNISH EACH PURCHASER OF A LOT WITH A LEGIBLE REPRODUCTION OF THE APPROVED PLANS AND SHALL NOTIFY THE PURCHASER OF THE NECESSITY OF INSTALLING SUCH FACILITIES IN ACCORDANCE WITH THE APPROVED PLANS.
- THAT THE DEVELOPER SHALL FURNISH EACH PURCHASER OF A LOT ON WHICH THERE WAS NO WATER SUPPLY AND/OR SEWAGE TREATMENT FACILITIES INSTALLED WITH A REPRODUCTION OF THE APPROVED PLANS AND SHALL NOTIFY THE PURCHASER OF THE NECESSITY OF INSTALLING SUCH FACILITIES IN ACCORDANCE WITH THE APPROVED PLANS.
- THAT THE PUBLIC WATER SUPPLY AND COMMUNITY SEWERAGE IMPROVEMENTS SERVING THIS SUBDIVISION SHALL BE INSPECTED FOR COMPLIANCE WITH THE APPROVED PLANS AT THE TIME OF CONSTRUCTION BY NEW YORK LICENSED PROFESSIONAL (P.E., R.A. OR EXEMPT L.S.) AND WRITTEN CERTIFICATION TO THAT EFFECT SHALL BE SUBMITTED TO THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE LOCAL BUILDING CODE ENFORCEMENT OFFICER WITHIN 30 DAYS AND PRIOR TO OCCUPANCY.
- THAT PLAN APPROVAL IS LIMITED TO FIVE YEARS FROM THE DATE OF APPROVAL, AND SHALL EXPIRE ON \_\_\_\_\_. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE NEW YORK STATE DEPARTMENT OF HEALTH BASED ON DEVELOPMENT FACTS AND THE REALTY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
- THAT THE APPROVED PLANS MUST BE FILED WITH THE SARATOGA COUNTY CLERK PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 90 DAYS OF THE DATE OF PLAN APPROVAL.
- THAT ALL LOCAL AND OTHER STATE AGENCY RULES AND REGULATIONS SHALL BE COMPLIED WITH.



SITE LOCATION MAP



**SITE STATISTICS**

<u>TAX PARCEL I.D.:</u>	141-2-5-2
<u>PARCEL AREA:</u>	72.73± ACRES
<u>EXISTING ZONING:</u>	RESIDENTIAL 2 (R-2)
<u>EXISTING AREA REQS.:</u>	LOT SIZE: 100,000 SF MIN. LOT WIDTH: 250 MIN. GREENSPACE: 35% MIN. BUILDING HEIGHT: 35' MAX. FRONT YARD SETBACK: 50' MIN. SIDE YARD SETBACK: 40' MIN. REAR YARD SETBACK: 40' MIN. FLOOR AREA: 750 SF MIN.
<u>CONSTRAINED AREA:</u>	NYSDEC WETLANDS 5.18± AC ACOE WETLANDS 0.00± AC SLOPES >15% 5.43± AC TOTAL 10.61± AC
<u>DEVELOPABLE AREA:</u>	62.12± AC
<u>BUILDABLE LAND:</u>	52.8± AC (DEVELOPABLE AREA - 15%)
<u>REQUIRED OPEN SPACE:</u>	21.74± AC (35% OF DEVELOPABLE AREA)
<u>ALLOWABLE LOTS:</u>	52.8± AC / (100,000 SF PER LOT) = 23 LOTS +1.0% FOR TOWN DEDICATED OPEN SPACE = 23 LOTS
<u>PROPOSED DEVELOPMENT:</u>	25 SINGLE-FAMILY HOMES 2,852 LF ROADWAY 29,22± AC OPEN SPACE
<u>PROPOSED AREA REQS.:</u>	LOT SIZE: 30,000 SF MIN. LOT WIDTH: 125' MIN. / 60' MIN. ON CUL-DE-SAC GREENSPACE: 35% MIN. BUILDING HEIGHT: 35' MAX. FRONT YARD SETBACK: 25' MIN. SIDE YARD SETBACK: 20' MIN. REAR YARD SETBACK: 20' MIN. FLOOR AREA: 750 SF MIN.
<u>AVERAGE LOT SIZE:</u>	65,235± SF
<u>UTILITY PROVISIONS:</u>	SANITARY SEWER - ON-SITE WWDWS WATER - PUBLIC STORMWATER - ON-SITE MITIGATION

SARATOGA COUNTY DEPARTMENT OF HEALTH

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Approved by Resolution of the Planning Board of the Town of Wilton, New York, on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ subject to all requirements and conditions of said Resolution. Any change, erasure, modification or revision of this Plat, as approved, shall void this approval.

Signed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ by \_\_\_\_\_

Chairman Secretary

Town of Wilton Water & Sewer Authority (WWSA)

These plans for \_\_\_\_\_ are hereby approved by the WWSA and are subject to all conditions of all notices, regulations and requirements of the WWSA. Any changes, erasures, revisions and/or modifications to these plans, as approved, shall void this approval.

Signed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ by \_\_\_\_\_

SHEET LIST TABLE		
SHEET NUMBER	SHEET DESIGNATION	SHEET DESCRIPTION
1	COV-1	COVER
2	SUB-1	SUBDIVISION PLAN
3	EC0-1	EXISTING CONDITIONS & DEMOLITION
4	IND-1	INDEX PLAN
5	LMG-1	LAYOUT & MATERIALS (NORTH)
6	LMG-2	LAYOUT & MATERIALS (SOUTH)
7	PP-1	PLAN & PROFILE ROAD A (1 OF 2)
8	PP-2	PLAN & PROFILE ROAD A (2 OF 2)
9	ESC-1	EROSION & SEDIMENT CONTROL (NORTH)
10	ESC-2	EROSION & SEDIMENT CONTROL (SOUTH)
11	DT-1	EROSION, SEDIMENT CONTROL & STORM SEWER DETAILS
12	DT-2	WATER SYSTEM DETAILS
13	DT-3	WASTEWATER DISPOSAL SYSTEM DETAILS
14	DT-4	MISCELLANEOUS SITE DETAILS
15	DT-5	STORMWATER MANAGEMENT DETAILS

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REVISIONS RECORD/DESCRIPTION  
DATE  
**PRELIMINARY / NOT FOR CONSTRUCTION**

**LANSING ENGINEERING**  
SARATOGA COUNTY, NEW YORK  
144 FELCHER ROAD  
BROADALBIN, NY 12025  
(518) 838-8848

CIVIL / TRANSPORTATION / ENVIRONMENTAL / LAND SURVEYING

**APPLICANT:**  
SARATOGA LANDWORKS, LLC  
144 FELCHER ROAD  
BROADALBIN, NY 12025

PROJ. NO: 1061.01  
SCALE: AS SHOWN  
DATE: 2/03/2026

**COV-1**  
SHEET 1 OF 15

DEED REFERENCE  
CONVEYANCE TO KATHLEEN A. BLEDSOE, MARY E. SAWICKI,  
MICHAEL F. VENTRE & THOMAS L. VENTRE BY DEED DATED  
APRIL 23, 2014 AND RECORDED IN THE SARATOGA COUNTY  
CLERK'S OFFICE AS INSTRUMENT NO. 2014011707.

MAP REFERENCES  
1. MAP ENTITLED "SUBDIVISION MAP FOR ESTATE OF LOUIS  
VENTRE DATED OCTOBER 10, 2013 PREPARED BY THE FIRM  
FRANKLIN LAND SURVEYING P.C. AND RECORDED IN THE  
SARATOGA COUNTY CLERK'S OFFICE AS MAP 85014022.  
2. MAP ENTITLED "SUBDIVISION OF LANDS OF FOREST GROVE -  
PHASE 2" DATED OCTOBER 2, 2008 PREPARED BY  
ENVIRONMENTAL DESIGN PARTNERSHIP, LLP AND RECORDED  
IN THE SARATOGA COUNTY CLERK'S OFFICE AS MAP  
85021488.  
3. MAP ENTITLED "BILL OF SALE OF INDICATION OF  
IMPROVEMENTS OVER BULLARD LANE (PREScriptive HIGHWAY  
SECTION-OFF-SITE IMPROVEMENTS) AS PREPARED FOR THE  
TOWN OF WILTON FOREST GROVE PHASE 2 SUBDIVISION  
DATED JANUARY 23, 2025 PREPARED BY ENVIRONMENTAL  
DESIGN PARTNERSHIP, LLP

NOTES  
1. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF AN  
UP TO DATE ABSTRACT OF TITLE AND FOR TITLE REPORT AND  
MAY BE SUBJECT TO WHATEVER STATEMENT OF FACTS THEY  
MAY REVEAL.  
2. NO ATTEMPT WAS MADE TO SHOW UNDERGROUND  
IMPROVEMENTS IN THE PREPARATION OF THIS SURVEY.  
3. ONLY BOUNDARY SURVEY MAPS WITH THE SURVEYOR'S  
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5. OFFSETS OR DIMENSIONS FROM THE PROPERTY LINE TO  
STRUCTURES OR IMPROVEMENTS ARE SHOWN FOR THE  
PURPOSE OF POSITIONING IT RELATIVE TO THE PROPERTY LINE  
AND/OR COMPLIANCE WITH ZONING, AND ARE NOT INTENDED  
TO MONUMENT THE PROPERTY LINES OR GUIDE IN THE  
LOCATION OF PERCHES OR OTHER IMPROVEMENTS TO THE  
LAND.  
6. WETLANDS SHOWN HEREON AS DELINEATED BY GILBERT  
VANCUILLER LAND SURVEYOR.



R = 17.00'  
L = 26.37'  
Ch = 23.81'  
N51° 53' 50"E  
R = 17.00'  
L = 27.03'  
Ch = 24.27'  
S39° 06' 10"E

**BULLARD LANE CONSERVATION  
RESIDENTIAL SUBDIVISION**

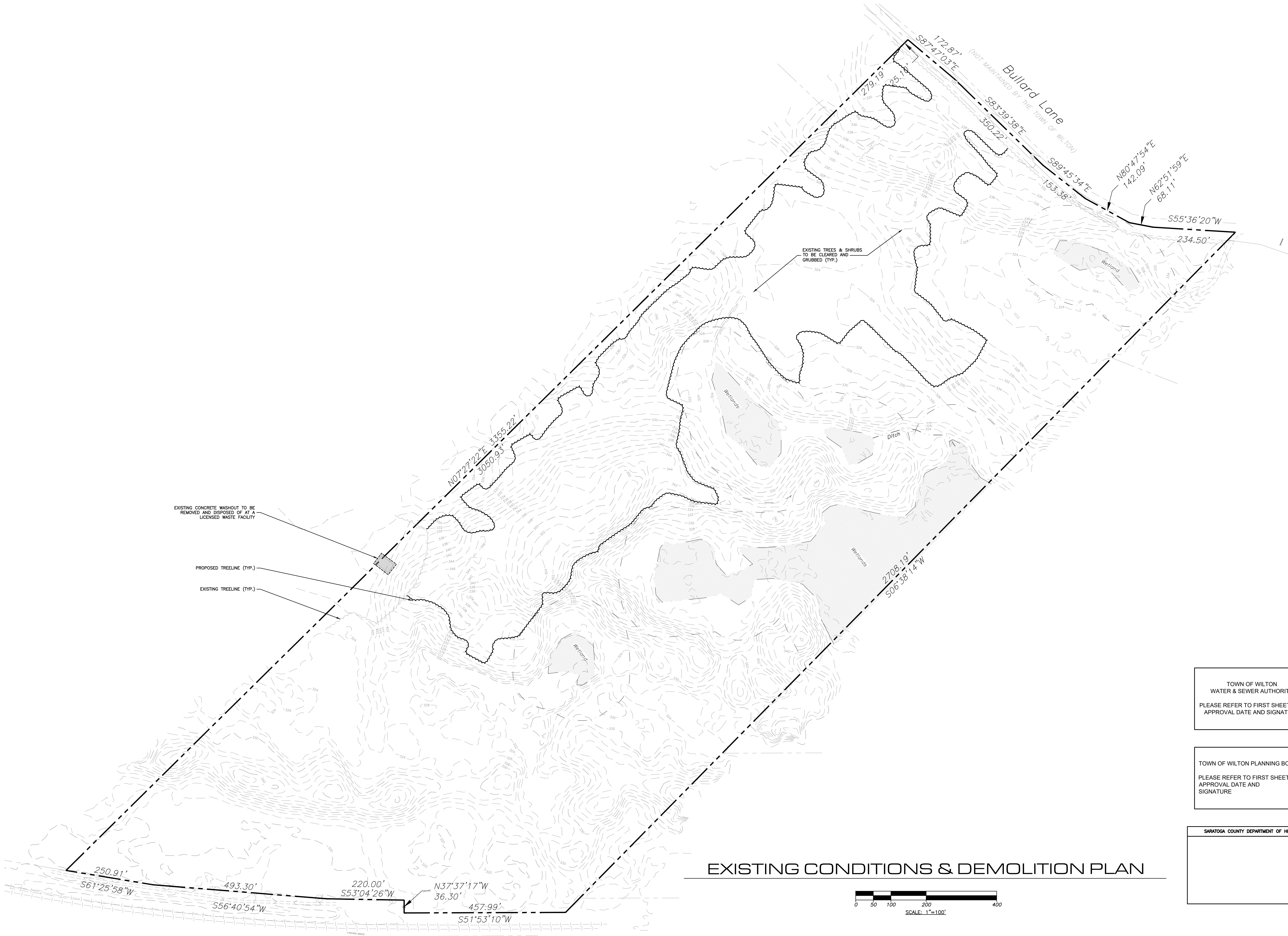
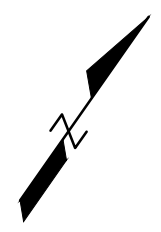
TOWN OF WILTON	SARATOGA COUNTY, NEW YORK	
MAP NUMBER: 26 - 30 - 14	SCALE: 1" = 100'	DATE: FEBRUARY 2, 2026

**Gilbert VanGuilder  
Land Surveyor, PLLC**  
Professional Land Surveyors  
988 Route 146, Clifton Park, New York 12065  
Telephone: (518) 383-0634  
gvglandsurveyors.com

KEVIN H. WEED, P.L.S. No. 51,005

**SHEET 2 OF**

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS  
SURVEY MAP IS A VIOLATION OF SECTION 2200, SUB-  
DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.  
ONLY COPIES OF THIS SURVEY MAP BEARING THE LAND  
SURVEYOR'S ORIGINAL SIGNATURE AND EMBOSSED SEAL  
SHALL BE CONSIDERED VALID.



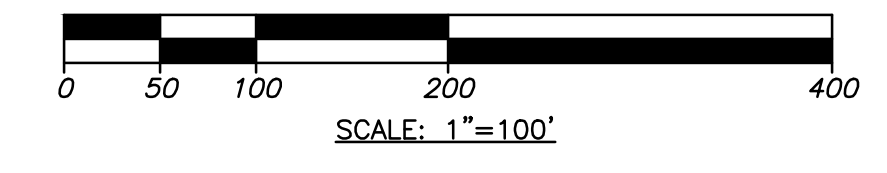
EXISTING CONCRETE WASHOUT TO BE REMOVED AND DISPOSED OF AT A LICENSED WASTE FACILITY

PROPOSED TREELINE (TYP.)

EXISTING TREELINE (TYP.)

EXISTING TREES & SHRUBS TO BE CLEARED AND GRUBBED (TYP.)

### EXISTING CONDITIONS & DEMOLITION PLAN



TOWN OF WILTON  
WATER & SEWER AUTHORITY  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

TOWN OF WILTON PLANNING BOARD  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

SARATOGA COUNTY DEPARTMENT OF HEALTH

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**PRELIMINARY / NOT FOR CONSTRUCTION**

**LANSING ENGINEERING**  
SARATOGA COUNTY, NEW YORK  
REGISTERED PROFESSIONAL ENGINEERING FIRM  
E-181 BBSBBSK

EXISTING CONDITIONS & DEMOLITION



LEGEND	
EXISTING FEATURES	PROPOSED FEATURES
	FIRE HYDRANT
	WATER LINE
	CATCH BASIN
	STORM MANHOLE
	STORM WATER LINE
	SANITARY GRAVITY LINE
	SANITARY FORCE MAIN
	SANITARY STRUCTURE
	GRINDER PUMP
	SANITARY CLEANOUT
	PROPERTY LINE

NOTE: PROPOSED 60' R.O.W. TO BE DEDICATED TO THE TOWN OF WILTON.

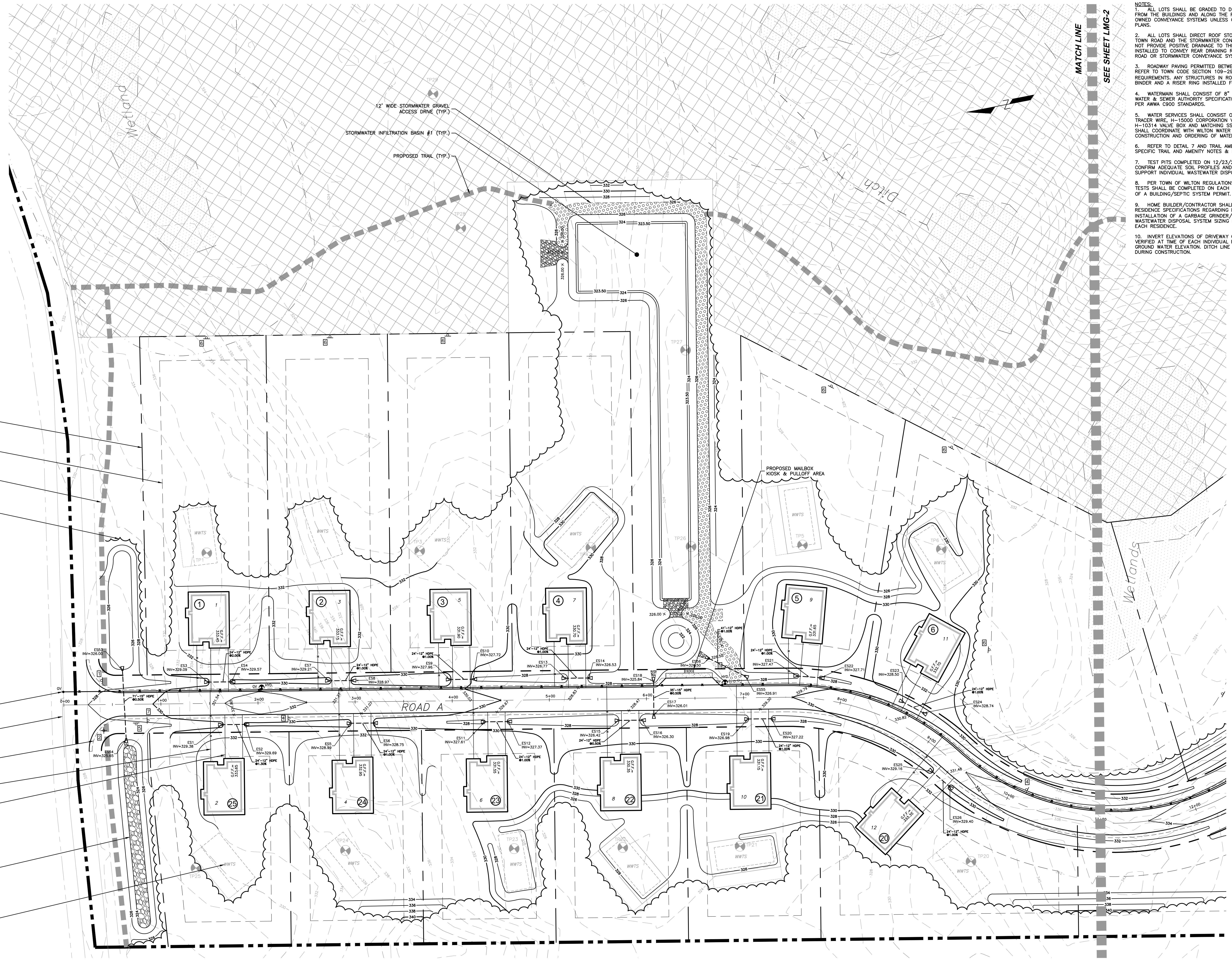
- REALTY SUBDIVISION LOT # (TYP.)
- STREET ADDRESS (TYP.)
- PROPOSED APPROXIMATE GARAGE FINISH FLOOR ELEVATION (TYP.)

TRAFFIC CONTROL DEVICE SCHEDULE		
PLAN NO.	DESCRIPTION	QTY.
1	R1-1 "STOP" SIGN	2
2	ROAD I.D. SIGN "BULLARD LANE X ROAD A"	1
4	R2-1 "SPEED LIMIT 30 MPH" SIGN	3
5	STORM WATER WARNING SIGN	2
6	DEED RESTRICTED LANDS	18
7	W14-2 NO OUTLET SIGN	1

NOTE: 1. CONTACT HIGHWAY DEPARTMENT FOR SIGN TYPE & SIGN REQUIREMENTS.

- PROPOSED PROPERTY LINE (TYP.)
- BUILDING SETBACK LINE (TYP.)
- EXISTING TREELINE (TYP.)
- PROPOSED TREELINE (TYP.)
- 8"x8"x8" TAPPING SLEEVE & GY
- APPROXIMATE LOCATION OF EXISTING WATERMAIN. CONTRACTOR TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
- 3' WIDE GRAVEL SHOULDER (TYP.)
- PROPOSED 1" HDPE WATER SERVICE (TYP.)
- PROPOSED ASPHALT DRIVEWAY (TYP.)
- STORMWATER INFILTRATION TRENCH #1
- WASTEWATER DISPOSAL SYSTEM (TYP.) SEE NOTES THIS SHEET

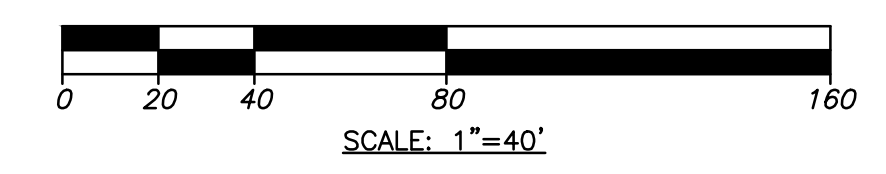
Bullard Lane  
NOT MAINTAINED BY THE TOWN OF WILTON



MATCH LINE  
SEE SHEET LMG-2

- NOTES:
- ALL LOTS SHALL BE GRADED TO DIRECT SURFACE RUNOFF AWAY FROM THE BUILDINGS AND ALONG THE PROPERTY LINES TO MUNICIPALLY OWNED CONVEYANCE SYSTEMS UNLESS OTHERWISE INDICATED ON THE PLANS.
  - ALL LOTS SHALL DIRECT ROOF STORMWATER RUNOFF TOWARD THE TOWN ROAD AND THE STORMWATER CONVEYANCE SYSTEM. LOTS THAT CAN NOT PROVIDE POSITIVE DRAINAGE TO THE STREET SHALL HAVE GUTTERS INSTALLED TO CONVEY REAR DRAINING ROOF RUNOFF TOWARDS THE TOWN ROAD OR STORMWATER CONVEYANCE SYSTEM.
  - ROADWAY PAVING PERMITTED BETWEEN APRIL 1 AND NOVEMBER 1. REFER TO TOWN CODE SECTION 109-23 FOR ROAD CONSTRUCTION REQUIREMENTS. ANY STRUCTURES IN ROADWAY SHALL BE SET 1' BELOW BINDER AND A RISER RING INSTALLED FOR TOP COURSE PAVING.
  - WATERMAIN SHALL CONSIST OF 8" PVC C900 PIPE PER INSTALLED WATER & SEWER AUTHORITY SPECIFICATIONS. ALL PIPES TO BE WITNESSED PER AWWA C900 STANDARDS.
  - WATER SERVICES SHALL CONSIST OF 1" CTS HDPE, DR-9 WITH TRACER WIRE, H=15000 CORPORATION VALVE, H=15200 CURB VALVE & H=10314 VALVE BOX AND MATCHING SS STATIONARY ROD. CONTRACTOR SHALL COORDINATE WITH WILTON WATER & SEWER AUTHORITY PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
  - REFER TO DETAIL 7 AND TRAIL AMENITY NOTES ON SHEET DT-4 FOR SPECIFIC TRAIL AND AMENITY NOTES & DETAILS.
  - TEST PITS COMPLETED ON 12/23/2025 AND WITNESSED BY SCDOH CONFIRM ADEQUATE SOIL PROFILES AND PERCOLATION RESULTS TO SUPPORT INDIVIDUAL WASTEWATER DISPOSAL SYSTEMS.
  - PER TOWN OF WILTON REGULATIONS, TEST PITS AND PERCOLATION TESTS SHALL BE COMPLETED ON EACH LOT PRIOR TO THE APPLICATION OF A BUILDING/SEPTIC SYSTEM PERMIT.
  - HOME BUILDER/CONTRACTOR SHALL CONFIRM SINGLE-FAMILY RESIDENCE SPECIFICATIONS REGARDING NUMBER OF BEDROOMS. INSTALLATION OF A GARBAGE GRINDER/WHIRLPOOL SPA TO CONFIRM WASTEWATER DISPOSAL SYSTEM SIZING IS ACCURATELY PROVIDED FOR EACH RESIDENCE.
  - INVERT ELEVATIONS OF DRIVEWAY CULVERT CROSSING SHALL BE VERIFIED AT TIME OF EACH INDIVIDUAL PROPERTY SURVEY OF THE GROUND WATER ELEVATION. DITCH LINE ELEVATION SHALL BE MAINTAINED DURING CONSTRUCTION.

LAYOUT & MATERIALS PLAN (NORTH)



TOWN OF WILTON  
WATER & SEWER AUTHORITY  
PLEASE REFER TO FIRST SHEET FOR  
APPROVAL DATE AND SIGNATURE

TOWN OF WILTON PLANNING BOARD  
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SARATOGA COUNTY DEPARTMENT OF HEALTH

LAYOUT,  
MATERIALS &  
GRADING PLAN  
(NORTH)

PROJ. NO: 1061.01  
SCALE: AS SHOWN  
DATE: 2/03/2026  
SHEET 5 OF 15

UNAUTHORIZED ADDITION TO THIS LOCATION OF THE BUSINESS ENGINEERING, P.C.

BULLARD LANE RESIDENTIAL SUBDIVISION  
BULLARD LANE, TOWN OF WILTON, SARATOGA COUNTY, NEW YORK

PRELIMINARY / NOT FOR CONSTRUCTION

LANSING ENGINEERING

SARATOGA COUNTY DEPARTMENT OF HEALTH

### LEGEND

EXISTING FEATURES	PROPOSED FEATURES

NOTE: PROPOSED 60' R.O.W. TO BE DEDICATED TO THE TOWN OF WILTON.

REALTY SUBDIVISION LOT # (TYP.)

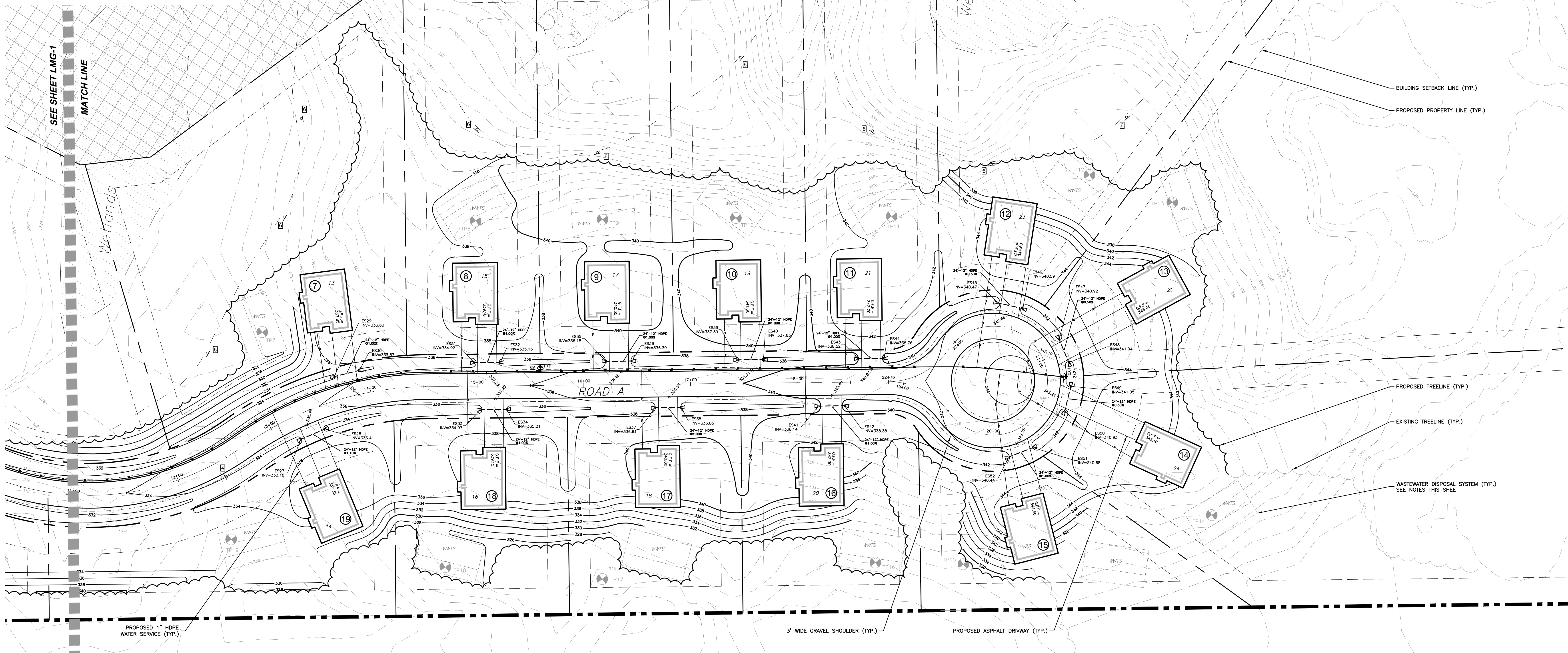
STREET ADDRESS (TYP.)

PROPOSED APPROXIMATE GARAGE FINISH FLOOR ELEVATION (TYP.)

APPROXIMATE LOCATION AND DIRECTION OF SIGN

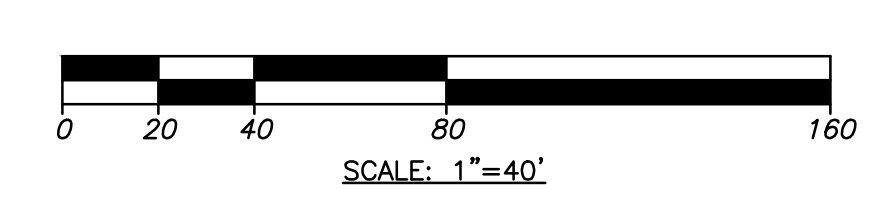
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NOTE: 1. CONTACT HIGHWAY DEPARTMENT FOR SIGN TYPE & SIGN REQUIREMENTS.



- NOTES:
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## LAYOUT & MATERIALS PLAN (SOUTH)



TOWN OF WILTON  
WATER & SEWER AUTHORITY  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

TOWN OF WILTON PLANNING BOARD  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

SARATOGA COUNTY DEPARTMENT OF HEALTH

LAYOUT, MATERIALS & GRADING PLAN (SOUTH)

PROJ. NO: 1061.01  
SCALE: AS SHOWN  
DATE: 2/03/2026  
SHEET 6 OF 15

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CIVIL TRANSPORTATION/ENVIRONMENTAL LAND SURVEYING

REVISION RECORD/DESCRIPTION

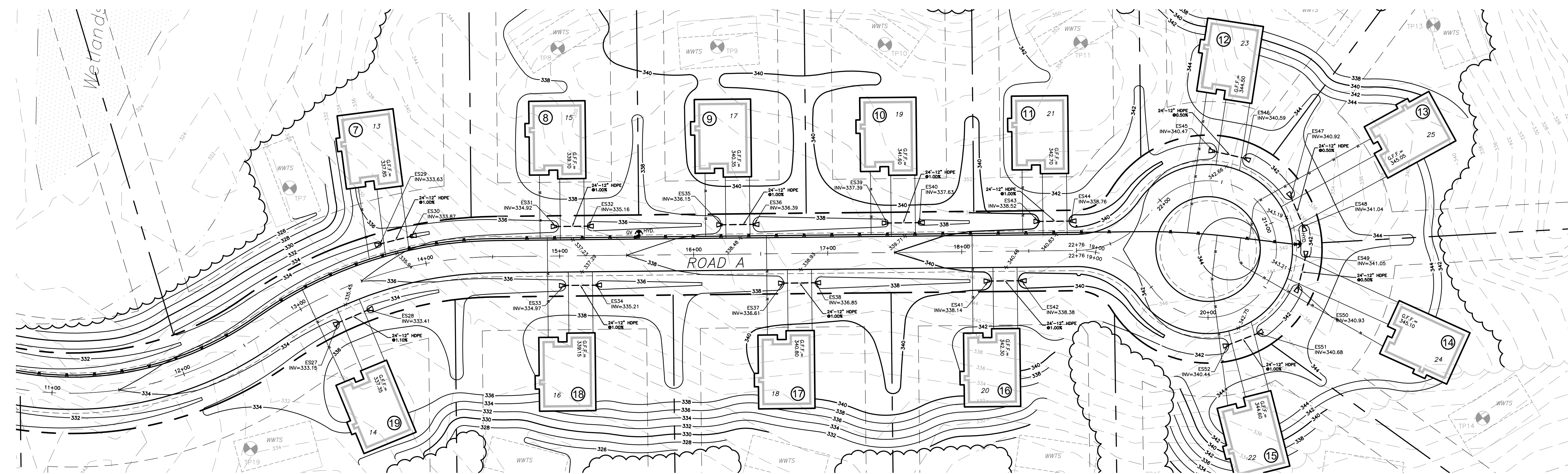
DATE

**BULLARD LANE RESIDENTIAL SUBDIVISION**  
 BULLARD LANE, TOWN OF WILTON, SARATOGA COUNTY, NEW YORK

**PRELIMINARY / NOT FOR CONSTRUCTION**

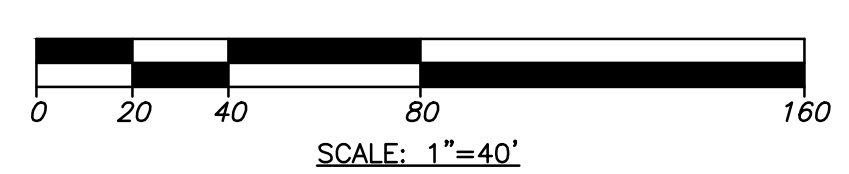
**LANSING ENGINEERING**  
 800 WEST WASHINGTON STREET  
 WILTON, NY 12195  
 (518) 838-8888



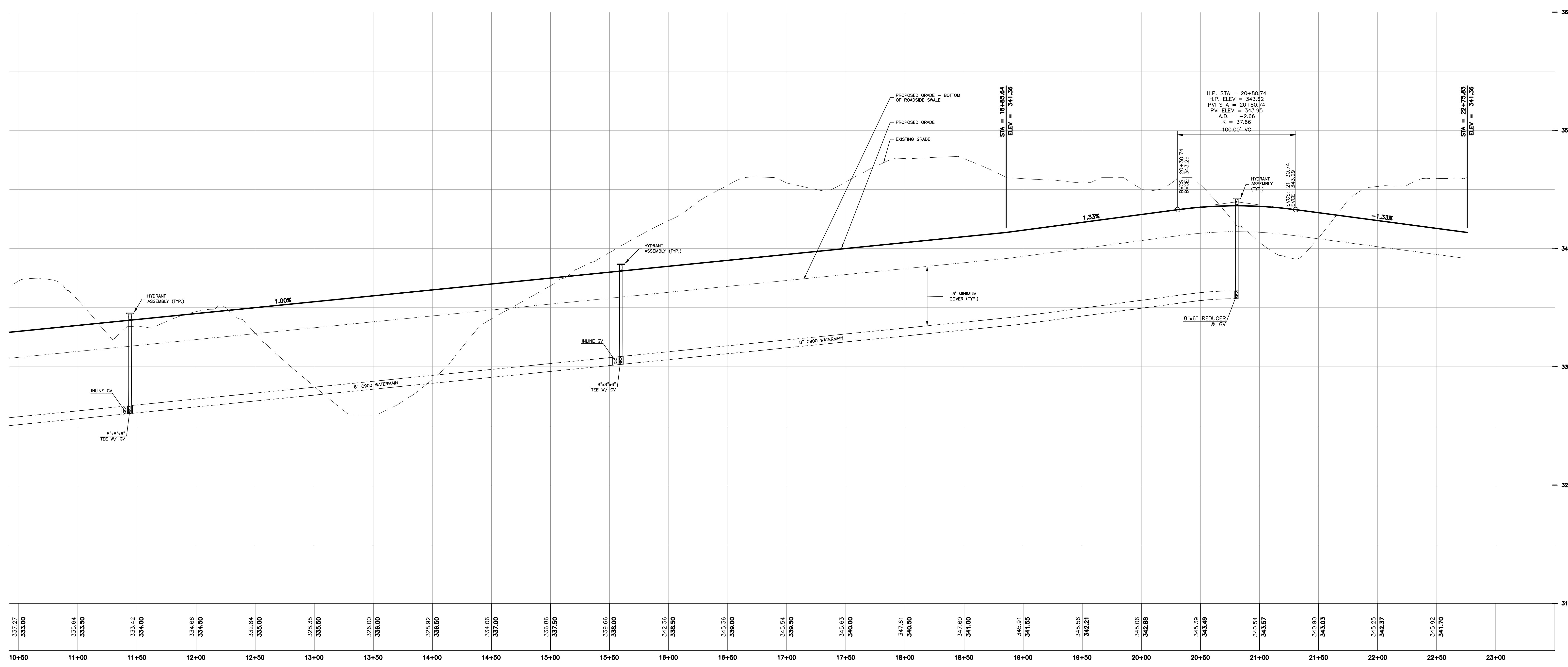


1

PLAN - ROAD A STA 11+00 TO 23+00

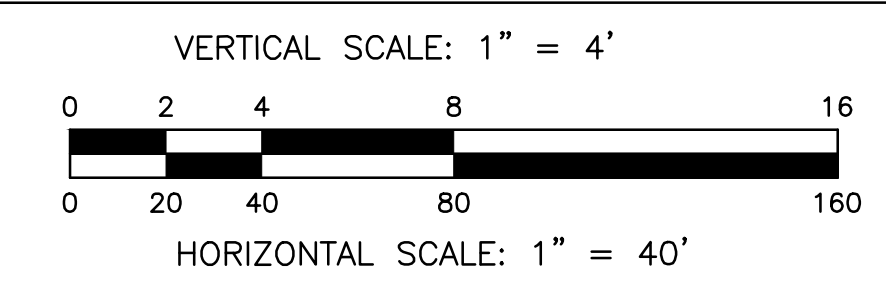


- NOTES:
- 1) FILLS GREATER THAN 6" PLACED WITHIN R.O.W. SHALL BE SELECT FILL: SAND, DURABLE, SAND, GRAVEL, STONE, OR BLENDS OF THESE MATERIALS FREE FROM ORGANIC, FROZEN OR OTHER DELETERIOUS MATERIALS.
  - 2) ALL FILL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY OF THE MATERIAL USED.
  - 3) PLACE FILL MATERIALS IN LAYERS NOT MORE THAN 12" LOOSE DEPTH. LIFT HEIGHT SHALL BE GOVERNED BY THE ABILITY OF THE COMPACTOR EQUIPMENT TO OBTAIN THE REQUIRED COMPACTION WITH 12" AS A MAXIMUM LIFT HEIGHT. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO FACILITATE COMPACTION TO THE REQUIRED DENSITY.
  - 4) COMPACTION TESTING SHALL BE PERFORMED AT THE DISCRETION OF THE INSPECTING ENGINEER IN ACCORDANCE WITH AASHTO T238, NUCLEAR METHOD.
  - 5) DO NOT PLACE BACKFILL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST, ICE, PONDED WATER OR EXTRANEIOUS DEBRIS.
  - 6) A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL SEPARATION IS REQUIRED BETWEEN SEWER (BOTH SANITARY AND STORM) AND WATER LINES.
  - 7) TYP. HYD. ASSEMBLY COMPRISED OF 8"x6" TEE, 6" GATE VALVE AND HYDRANT ASSEMBLY.
  - 8) MINIMUM OF 5' OF COVER IS REQUIRED OVER WATERLINE.
  - 9) WATERMAN SHALL CONSIST OF 8" PE4710 OR-11 "BLUESTRIPE" FOR DIRECTIONAL DRILLING PER WSA SPECIFICATIONS. ALL PIPES TO BE INSTALLED PER AWWA C900 STANDARDS.
- | SIETE   | PERCENT PASSING |
|---------|-----------------|
| NO. 40  | 100             |
| NO. 200 | 0-70            |
|         | 0-10            |



2

PROFILE - ROAD A STA 11+00 TO 23+00



TOWN OF WILTON  
WATER & SEWER AUTHORITY  
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SARATOGA COUNTY DEPARTMENT OF HEALTH

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REVISION RECORD/DESCRIPTION  
**PRELIMINARY / NOT FOR CONSTRUCTION**





**LANSING**  
ENGINEERING  
P.C.  
SARATOGA COUNTY, NEW YORK  
12158 BBSB2648

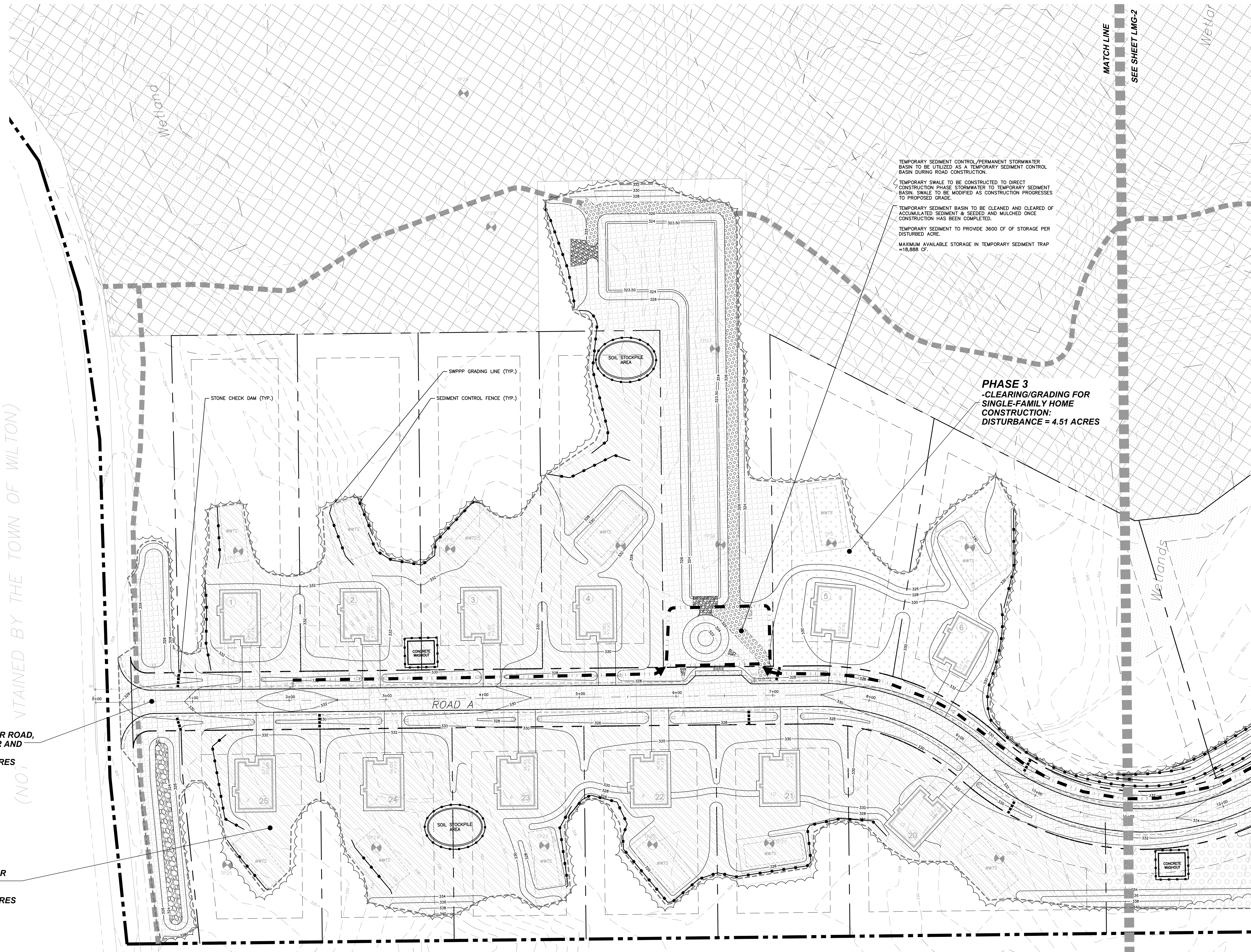
PLAN &  
PROFILE ROAD  
A (2 OF 2)

PROJ. NO: 1061.01  
SCALE: AS SHOWN  
DATE: 2/03/2026  
PP-2  
SHEET 8 OF 15

**LEGEND**

-  SILT FENCE
-  INLET PROTECTION
-  CHECK DAM
-  TEMPORARY SWALE

-  PHASE 1 = 4.50 AC. DISTURBANCE
-  PHASE 2 = 4.82 AC. DISTURBANCE
-  PHASE 3 = 4.51 AC. DISTURBANCE
-  PHASE 4 = 2.80 AC. DISTURBANCE



TEMPORARY SEDIMENT CONTROL/PERMANENT STORMWATER BASIN TO BE UTILIZED AS A TEMPORARY SEDIMENT CONTROL BASIN DURING ROAD CONSTRUCTION.

TEMPORARY SWALE TO BE CONSTRUCTED TO DIRECT CONSTRUCTION PHASE STORMWATER TO TEMPORARY SEDIMENT BASIN. SWALE TO BE MODIFIED AS CONSTRUCTION PROGRESSES TO PROPOSED GRADE.

TEMPORARY SEDIMENT BASIN TO BE CLEANED AND CLEARED OF ACCUMULATED SEDIMENT & SEEDS AND MULCHED ONCE CONSTRUCTION HAS BEEN COMPLETED.

TEMPORARY SEDIMENT TO PROVIDE 3600 CF OF STORAGE PER DISTURBED ACRE.

MAXIMUM AVAILABLE STORAGE IN TEMPORARY SEDIMENT TRAP = 18,888 CF.

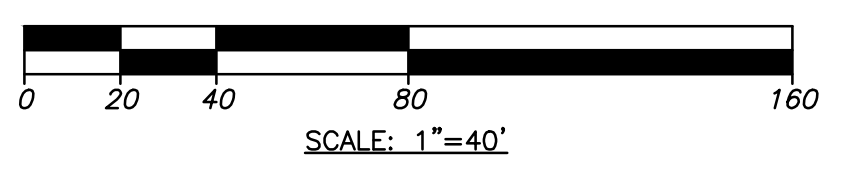
**PHASE 3**  
-CLEARING/GRADING FOR SINGLE-FAMILY HOME CONSTRUCTION:  
DISTURBANCE = 4.51 ACRES

**PHASE 1**  
-CLEARING/GRADING FOR ROAD, UTILITIES, STORMWATER AND MANAGEMENT AREA:  
DISTURBANCE = 4.50 ACRES

**PHASE 2**  
-CLEARING/GRADING FOR SINGLE-FAMILY HOME CONSTRUCTION:  
DISTURBANCE = 4.82 ACRES

Bullard Lane  
(NOT MAINTAINED BY THE TOWN OF WILTON)

**EROSION & SEDIMENT CONTROL PLAN (NORTH)**



TOWN OF WILTON  
WATER & SEWER AUTHORITY  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

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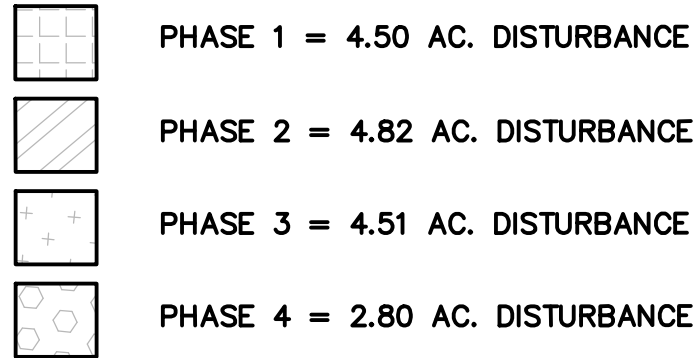
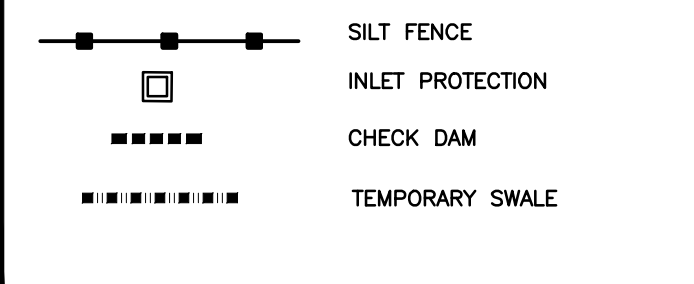
**EROSION & SEDIMENT CONTROL (NORTH)**

PROJ. NO: 1061.01  
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**ESC-1**  
SHEET 9 OF 15

**LANSING ENGINEERING**  
 585 WEST 10TH STREET  
 ALBANY, NY 12206  
 (518) 888-8848  
 CIVIL, TRANSPORTATION, ENVIRONMENTAL, LAND SURVEYING  
 PRELIMINARY / NOT FOR CONSTRUCTION  
 BULLARD LANE RESIDENTIAL SUBDIVISION  
 BULLARD LANE, TOWN OF WILTON, SARATOGA COUNTY, NEW YORK  
 REVISIONS: RECORD/DESCRIPTION  
 DATE:

**LEGEND**



**TABLE 5.3 SOIL RESTORATION REQUIREMENTS\***

TYPE OF SOIL DISTURBANCE	SOIL RESTORATION REQUIREMENT	COMMENTS/EXAMPLES
NO SOIL DISTURBANCE	RESTORATION NOT PERMITTED	PRESERVATION OF NATURAL FEATURES
MINIMAL SOIL DISTURBANCE	RESTORATION NOT PERMITTED	CLEARING AND GRUBBING
AREAS WHERE TOPSOIL IS STRIPPED ONLY - NO CHANGE IN GRADE	HSG A&B APPLY 6 INCHES OF TOPSOIL	PROTECT AREA FROM ANY ONGOING CONSTRUCTION ACTIVITIES
AREAS OF CUT OR FILL	HSG A&B AERATE AND APPLY 6 INCHES OF TOPSOIL	
HEAVY TRAFFIC AREAS ON SITE (ESPECIALLY IN A ZONE 5'-25' FEET AROUND BUILDINGS BUT NOT WITHIN A 5 FOOT PERIMETER AROUND FOUNDATION WALLS)	APPLY FULL SOIL RESTORATION (DE-COMPACT AND COMPOST ENHANCEMENT)	
AREAS WHERE RUNOFF REDUCTION AND/OR INFILTRATION PRACTICES ARE APPLIED	RESTORATION NOT REQUIRED, BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR APPROPRIATE PRACTICES	KEEP CONSTRUCTION EQUIPMENT FROM CROSSING THESE AREAS; TO PROTECT NEWLY INSTALLED PRACTICES FROM ANY ONGOING CONSTRUCTION ACTIVITIES, CONSTRUCT A SINGLE PHASE OPERATION FENCE AREA
REDEVELOPMENT PROJECTS	SOIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING IMPERVIOUS AREA WILL BE CONVERTED TO PERVIOUS AREA	

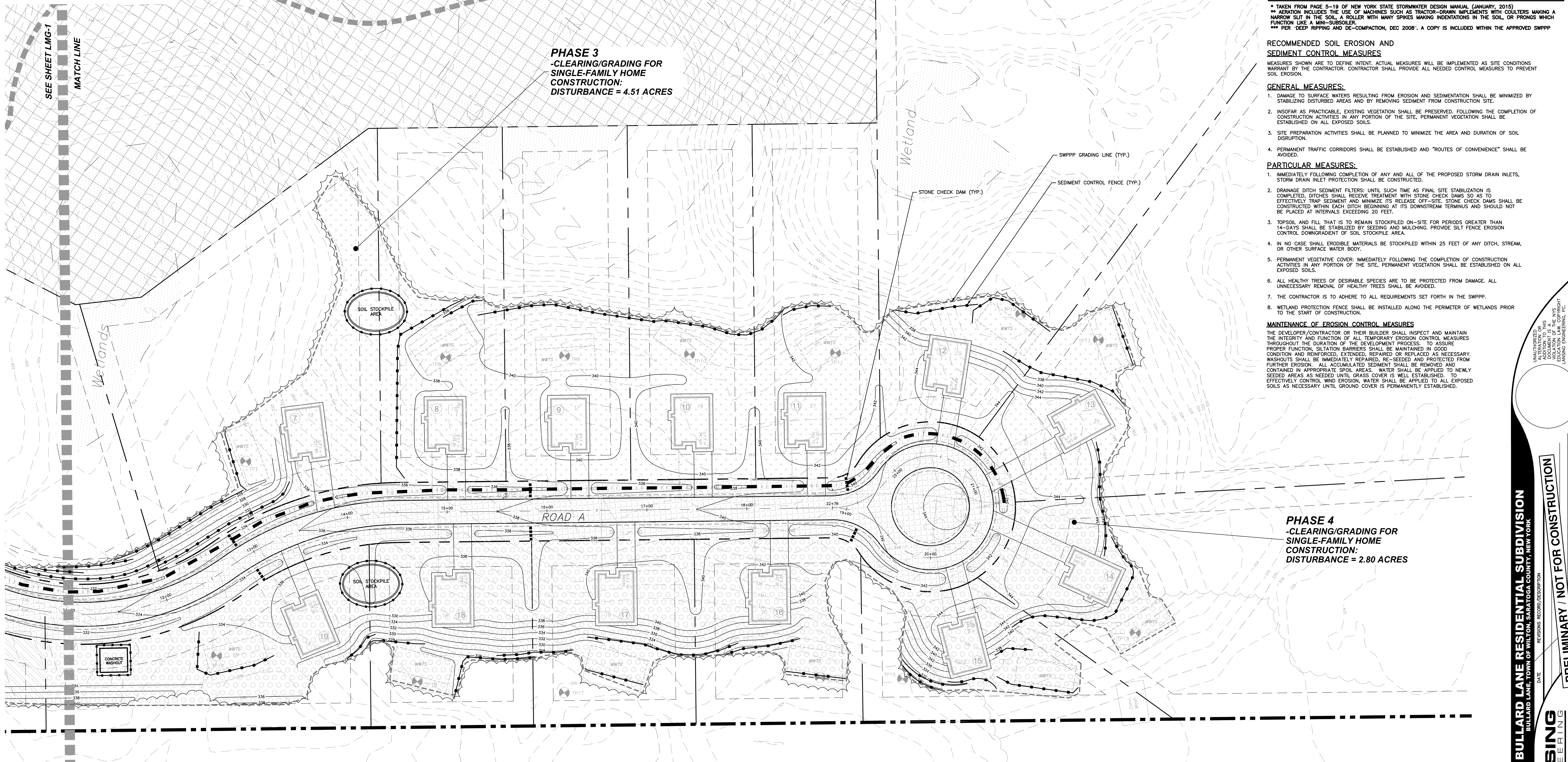
\* TAKEN FROM PAGE 5-19 OF NEW YORK STATE STORMWATER DESIGN MANUAL (JANUARY, 2015)  
 \*\* AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOIL, A ROLLER WITH MANY SPIKES MAKING INDENTATIONS IN THE SOIL, OR PRONGS WHICH FUNCTION LIKE A MINI-SUBSOILER.  
 \*\*\* PER "DEEP RIPPING AND DE-COMPACTION, DEC 2008". A COPY IS INCLUDED WITHIN THE APPROVED SWPPP

**RECOMMENDED SOIL EROSION AND SEDIMENT CONTROL MEASURES**  
 MEASURES SHOWN ARE TO DEFINE INTENT. ACTUAL MEASURES WILL BE IMPLEMENTED AS SITE CONDITIONS WARRANT BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL NEEDED CONTROL MEASURES TO PREVENT SOIL EROSION.

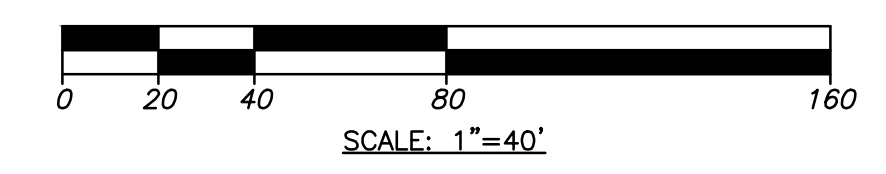
- GENERAL MEASURES:**
- DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE.
  - INsofar AS PRACTICABLE, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
  - SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE AREA AND DURATION OF SOIL DISRUPTION.
  - PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED.

- PARTICULAR MEASURES:**
- IMMEDIATELY FOLLOWING COMPLETION OF ANY AND ALL OF THE PROPOSED STORM DRAIN INLETS, STORM DRAIN INLET PROTECTION SHALL BE CONSTRUCTED.
  - DRAINAGE DITCH SEDIMENT FILTERS: UNTIL SUCH TIME AS FINAL SITE STABILIZATION IS COMPLETED, DITCHES SHALL RECEIVE TREATMENT WITH STONE CHECK DAMS SO AS TO EFFECTIVELY TRAP SEDIMENT AND MINIMIZE ITS RELEASE OFF-SITE. STONE CHECK DAMS SHALL BE CONSTRUCTED WITHIN EACH DITCH BEGINNING AT ITS DOWNSTREAM TERMINUS AND SHOULD NOT BE PLACED AT INTERVALS EXCEEDING 20 FEET.
  - TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 14-DAYS SHALL BE STABILIZED BY SEEDING AND MULCHING. PROVIDE SILT FENCE EROSION CONTROL DOWNGRADIENT OF SOIL STOCKPILE AREA.
  - IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.
  - PERMANENT VEGETATIVE COVER: IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
  - ALL HEALTHY TREES OF DESIRABLE SPECIES ARE TO BE PROTECTED FROM DAMAGE. ALL UNNECESSARY REMOVAL OF HEALTHY TREES SHALL BE AVOIDED.
  - THE CONTRACTOR IS TO ADHERE TO ALL REQUIREMENTS SET FORTH IN THE SWPPP.
  - WETLAND PROTECTION FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF WETLANDS PRIOR TO THE START OF CONSTRUCTION.

**MAINTENANCE OF EROSION CONTROL MEASURES**  
 THE DEVELOPER/CONTRACTOR OR THEIR BUILDER SHALL INSPECT AND MAINTAIN THE INTEGRITY AND FUNCTION OF ALL TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE DEVELOPMENT PROCESS. TO ASSURE PROPER FUNCTION, SILTATION BARRIERS SHALL BE MAINTAINED IN GOOD CONDITION AND REINFORCED, EXTENDED, REPAIRED OR REPLACED AS NECESSARY. WASHOUTS SHALL BE IMMEDIATELY REPAIRED, RE-SEEDED AND PROTECTED FROM FURTHER EROSION. ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPILL AREAS. WATER SHALL BE APPLIED TO NEWLY SEEDING AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED. TO EFFECTIVELY CONTROL WIND EROSION, WATER SHALL BE APPLIED TO ALL EXPOSED SOILS AS NECESSARY UNTIL GROUND COVER IS PERMANENTLY ESTABLISHED.



**EROSION & SEDIMENT CONTROL PLAN (SOUTH)**



TOWN OF WILTON  
 WATER & SEWER AUTHORITY  
 PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

TOWN OF WILTON PLANNING BOARD  
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SARATOGA COUNTY DEPARTMENT OF HEALTH

**EROSION & SEDIMENT CONTROL (SOUTH)**

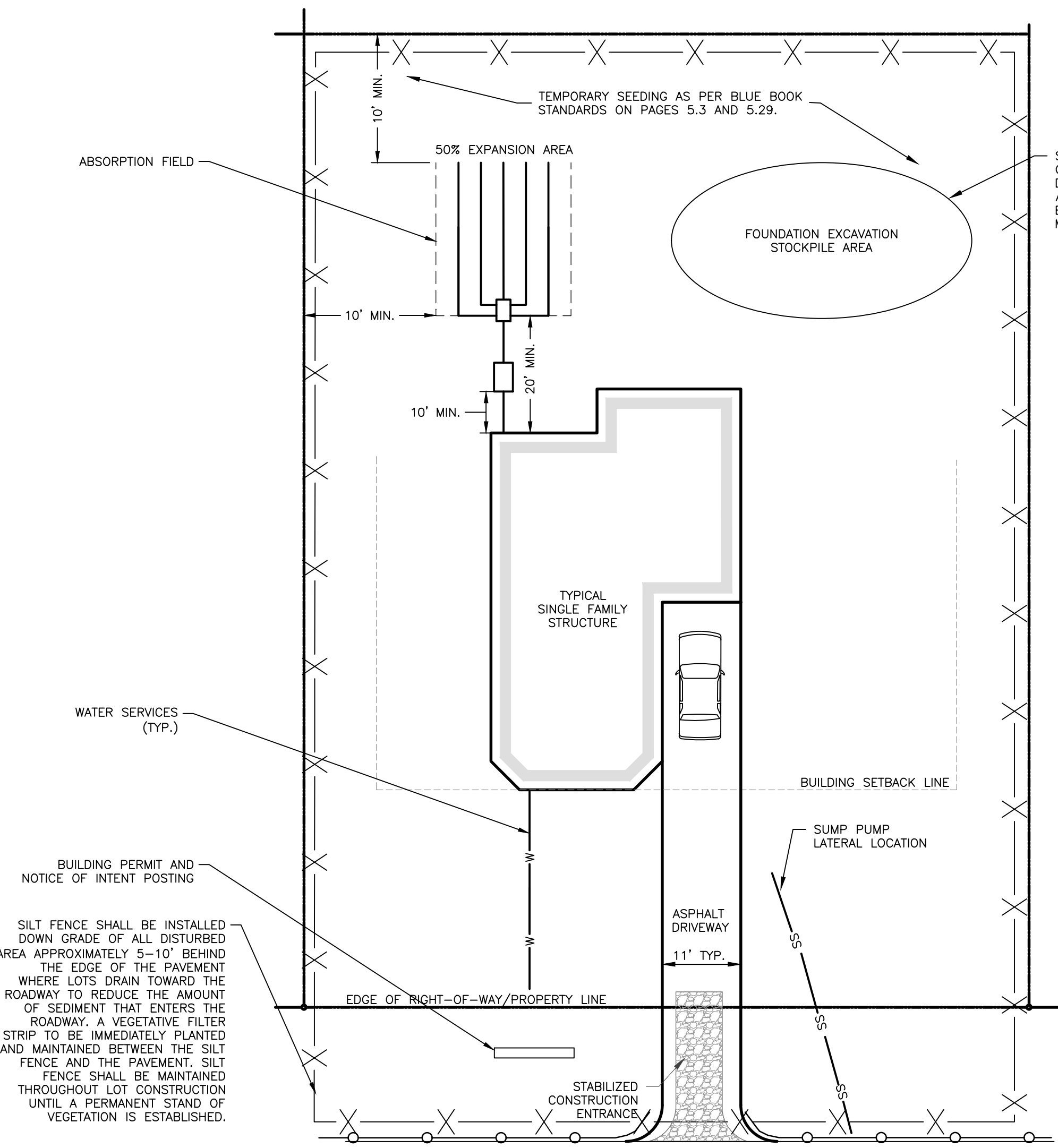
PROJ. NO: 1061.01  
 SCALE: AS SHOWN  
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**ESC-2**  
 SHEET 10 OF 15

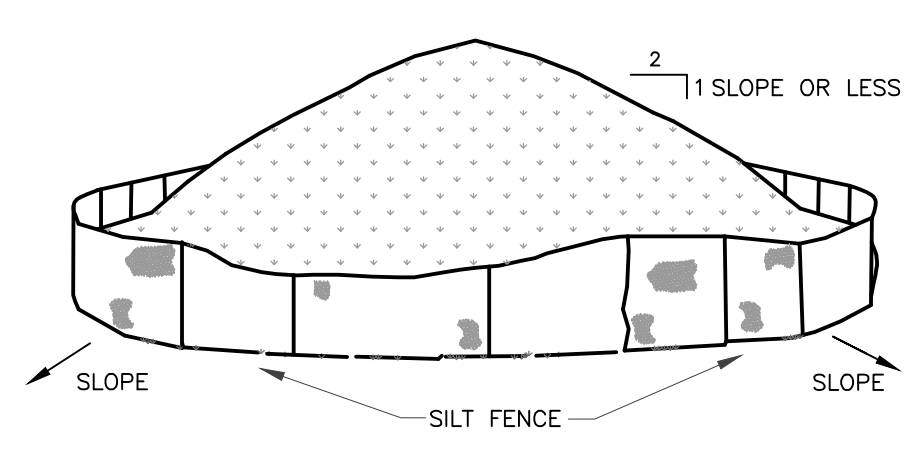
**LANSING ENGINEERING**  
 500 WEST WASHINGTON STREET  
 ALBANY, NY 12206  
 (518) 868-8800

**BULLARD LANE RESIDENTIAL SUBDIVISION**  
 BULLARD LANE, TOWN OF WILTON, SARATOGA COUNTY, NEW YORK

PRELIMINARY / NOT FOR CONSTRUCTION

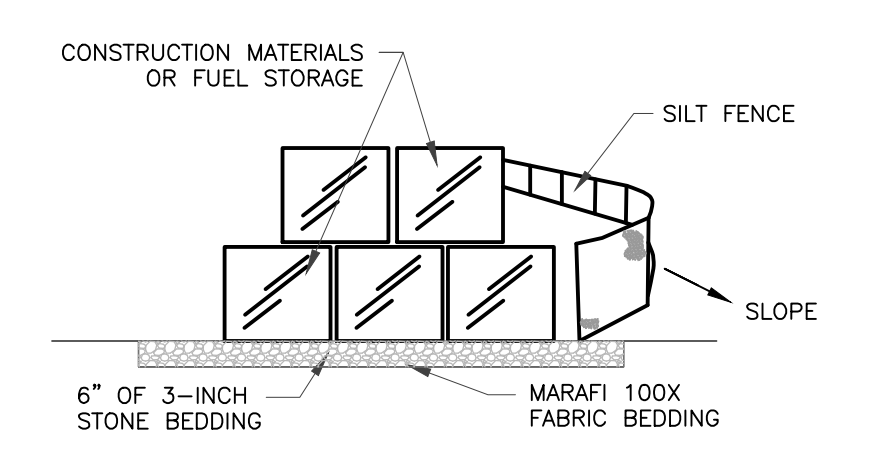


**1 TYPICAL LOT LAYOUT & EROSION CONTROL**  
SCALE: NTS



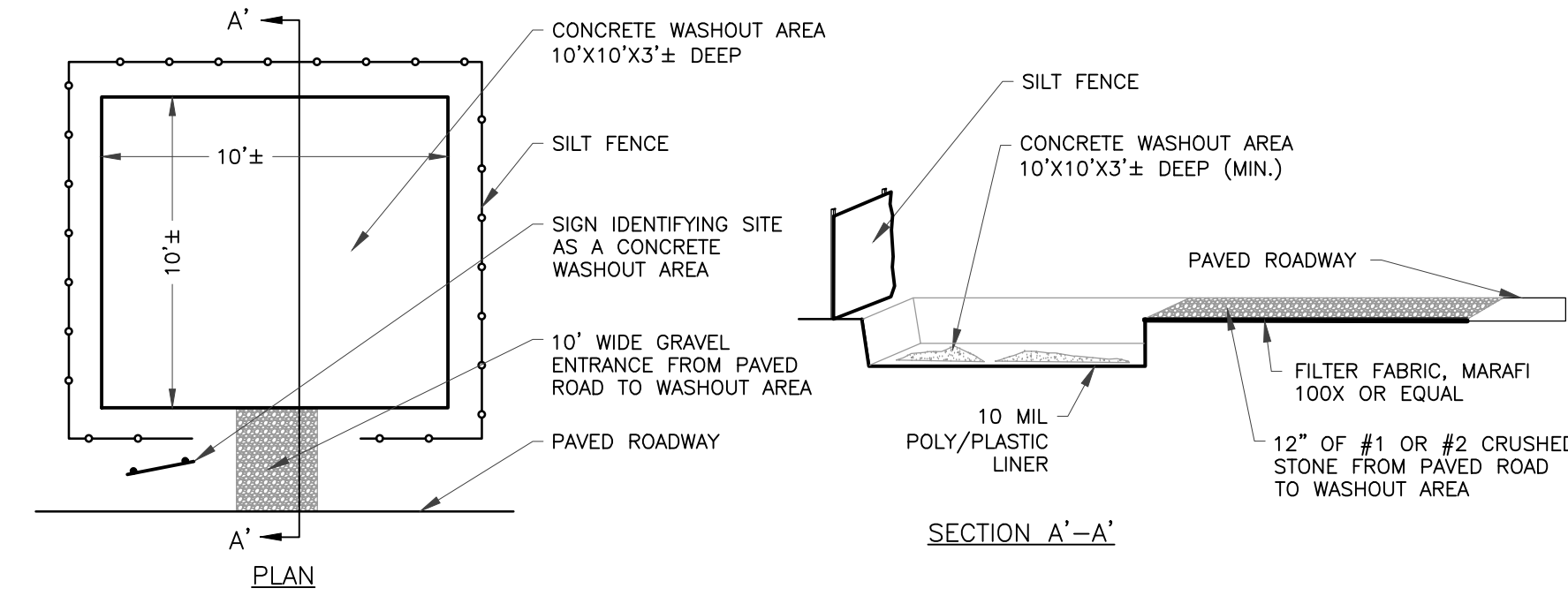
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. SILT FENCING SHALL BE PLACED 5' DOWNSLOPE OF EACH PILE. UPON COMPLETION OF SOIL STOCKPILING, TOPSOIL SHALL BE STABILIZED WITH SEED AND MULCH IF NOT TO BE DISTURBED/UTILIZED WITHIN 14 DAYS.
4. SEE ADDITIONAL DETAILS FOR INSTALLATION OF SILT FENCE.
5. TEMPORARY PERIMETER DIKES MAY BE REQUIRED TO DIRECT CLEAN RUNOFF FROM STORAGE AREAS. REFER TO EROSION AND SEDIMENT CONTROL PLAN.

**4 MATERIAL STORAGE & SOIL STOCKPILE STABILIZATION DETAIL**  
SCALE: NTS

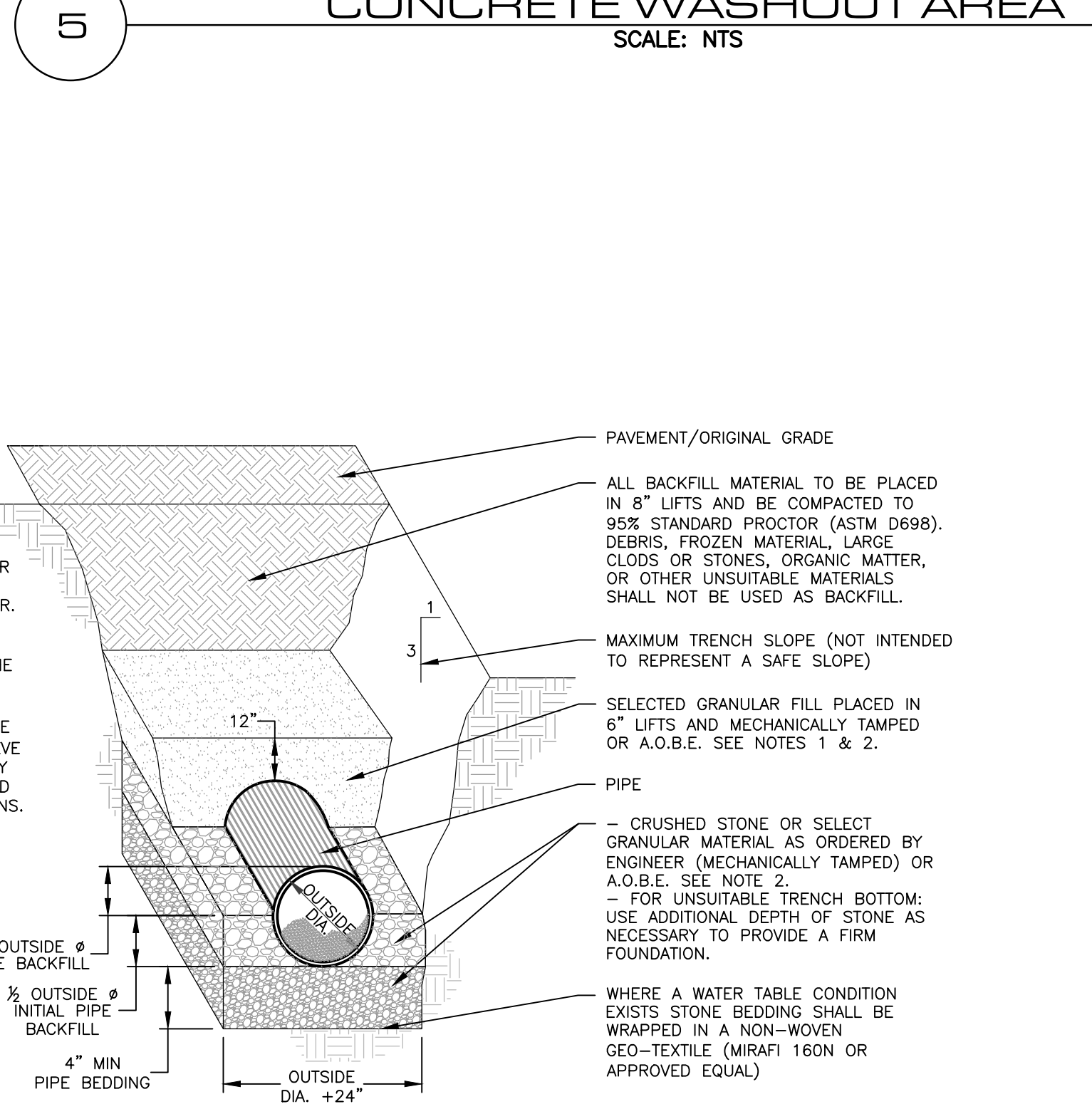


1. AREA CHOSEN FOR STORAGE OPERATIONS SHALL BE DRY AND STABLE.
2. MINIMUM DISTANCE TO A NATURAL WATER COURSE SHALL BE 50'.
3. THE TOP SIX INCHES OF NATIVE MATERIAL SHALL BE REMOVED FROM MATERIAL/FUEL STORAGE AREA AND REPLACED WITH MARAFAI 100X GEOTEXTILE FABRIC AND 6" INCHES OF CRUSHED STONE BEDDING. CRUSHED STONE SHALL MEET NYS DOT ITEM NO. 623.11 SPECIFICATIONS.
4. SILT FENCING SHALL BE PLACED 5' DOWNSLOPE OF STORAGE AREA.
5. TEMPORARY PERIMETER DIKES MAY BE REQUIRED TO DIRECT CLEAN RUNOFF FROM STORAGE AREAS. REFER TO EROSION AND SEDIMENT CONTROL PLAN.

**5 CONCRETE WASHOUT AREA**  
SCALE: NTS

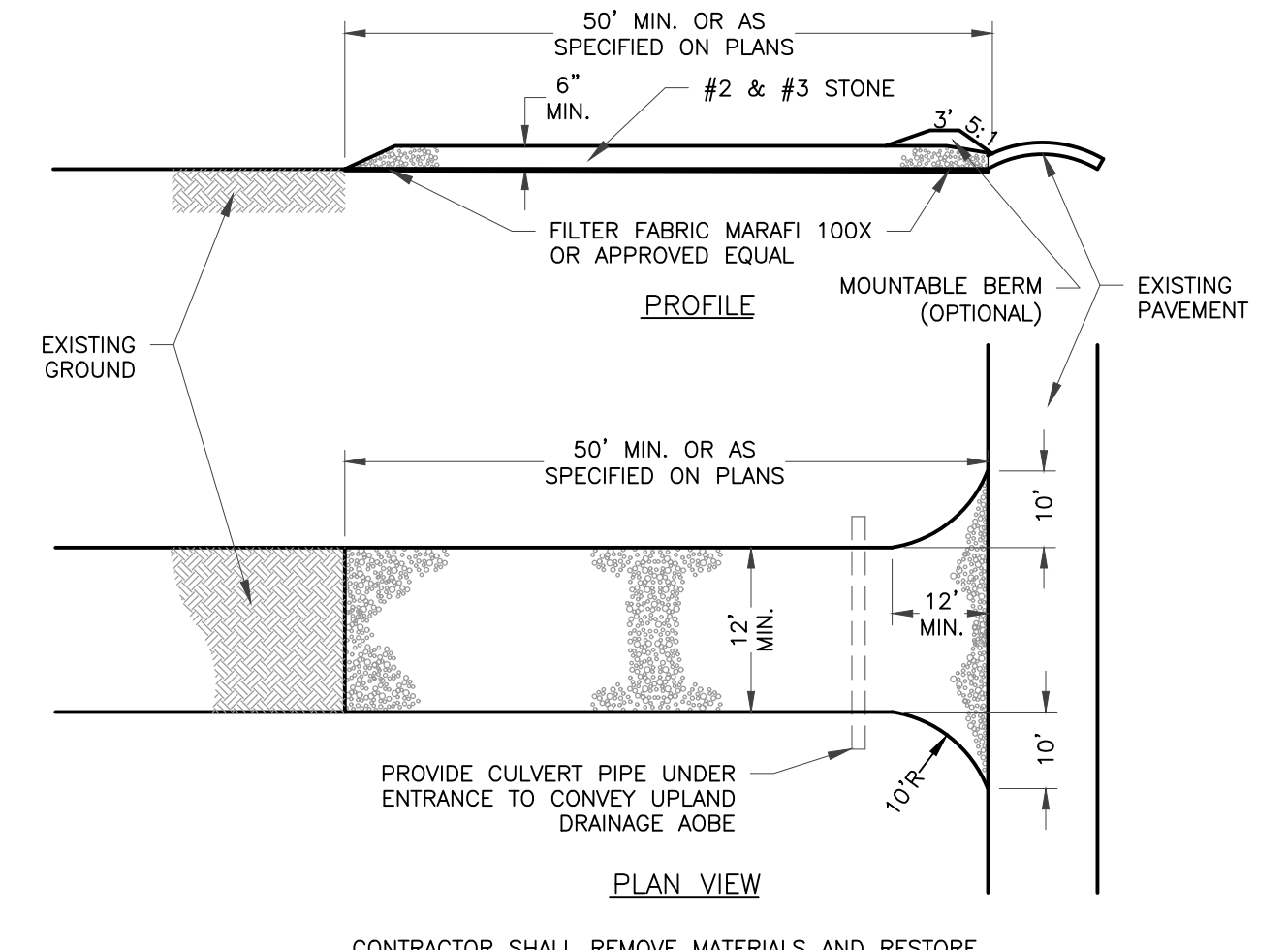


- CONSTRUCTION SPECIFICATIONS**
1. CONCRETE WASHOUT LOCATION SHALL BE A MINIMUM OF 100' FROM SENSITIVE AREAS.
  2. THE BASIN DIMENSIONS DEPICTED ABOVE ARE REQUIRED MINIMUMS. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. (APPROX. 60 GAL. OF WATER/WASTE PER TRUCK)
  3. PLASTIC LINING MATERIAL SHALL BE 10 MIL(MINIMUM) POLY SHEETING AND BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. LINER TO BE ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, OR STONE.
  4. WASHOUT FACILITY MUST BE CLEANED OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
- MAINTENANCE AND CLEANING**
1. DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS OR DIRECTLY ONTO GROUND.
  2. DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
  3. PLACE A SECURE NON-COLLAPSING, NON-WATER COLLECTING COVER OVER THE FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW.
  4. REMOVE AND DISPOSE OF HARDENED CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL STATE.
  5. INSPECT THE WASHOUT FACILITY FOR SIGNS OF WEAKENING OR DAMAGE AND REPAIR AS NECESSARY (RE-LINE THE STRUCTURE WITH NEW POLY SHEETING AFTER EACH CLEANING).

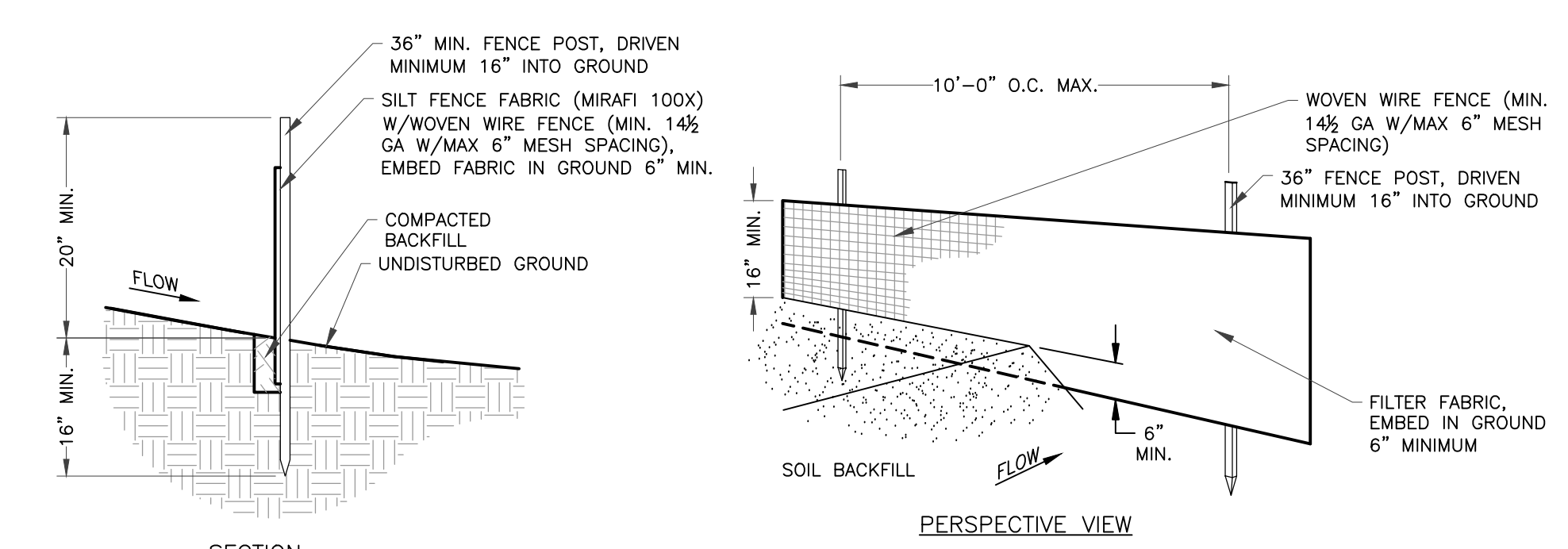


- NOTES:**
1. NATIVE EXCAVATED GRANULAR MATERIAL MAY BE USED IF APPROVED BY THE ENGINEER. CRUSHED STONE NOT TO EXCEED #2 IN SIZE. GRANULAR FILL TO MEET THE FOLLOWING REQUIREMENTS: OR IN EXCESS OF 3" 25%-75% PASSING #4 SIEVE 0%-15% PASSING #200 SIEVE CONTRACTORS MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS. (OSHA & NYS DOT)
  2. WHERE ROCK IS ENCOUNTERED EXCAVATE A MIN. 6" BELOW PIPE.
  3. CRUSHED STONE OR SELECT GRANULAR MATERIAL AS ORDERED BY ENGINEER (MECHANICALLY TAMPED) OR A.O.B.E. SEE NOTE 2. - FOR UNSUITABLE TRENCH BOTTOM, USE ADDITIONAL DEPTH OF STONE AS NECESSARY TO PROVIDE A FIRM FOUNDATION.
  4. WHERE A WATER TABLE CONDITION EXISTS STONE BEDDING SHALL BE WRAPPED IN A NON-WOVEN GEO-TEXTILE (MARAFI 150N OR APPROVED EQUAL)

**8 TYPICAL TRENCH DETAIL FOR CORRUGATED HDPE PIPE**  
SCALE: NTS



**2 STABILIZED CONSTRUCTION ENTRANCE**  
SCALE: NTS



**3 SEDIMENT CONTROL FENCE**  
SCALE: NTS

- CONSTRUCTION SPECIFICATIONS**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
  2. 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, 1 1/2 GA, 6" MAXIMUM MESH OPENING.
  3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
  4. PREFABRICATED UNITS SHALL BE GEOTAF, ENVROFENCE, OR APPROVED EQUIVALENT.
  5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

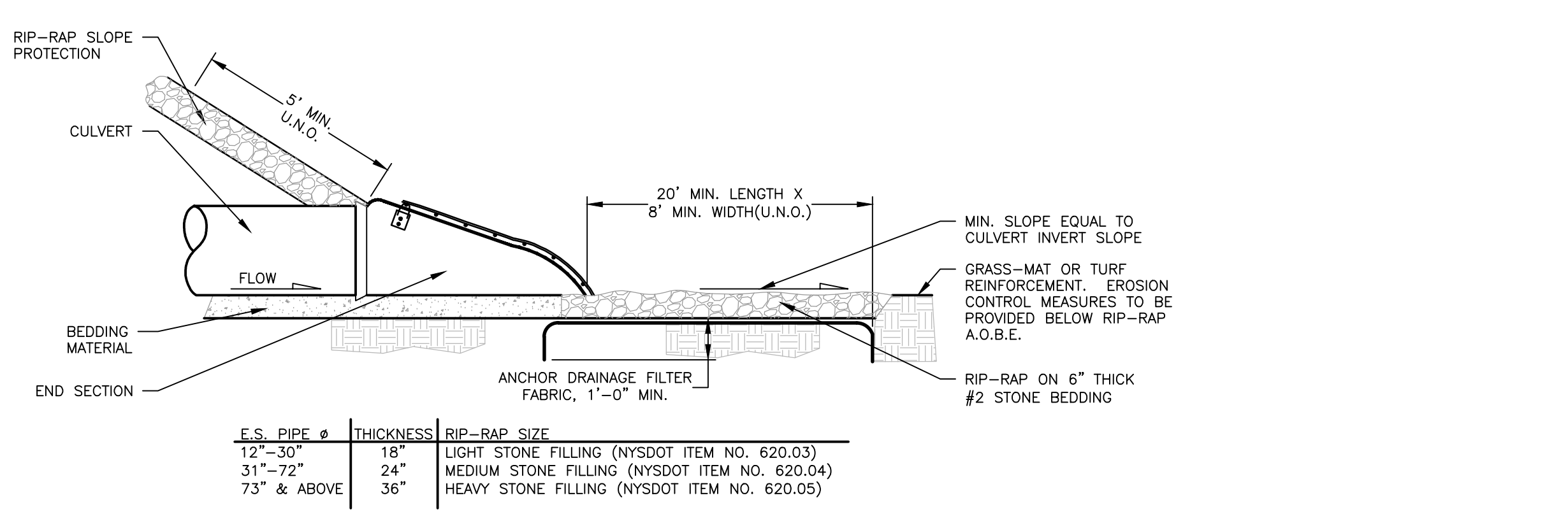
SLOPE	STEEPNESS	SLOPE LENGTH/FENCE LENGTH (FT)		
		STANDARD	REINFORCED	SUPER
<2%	<50:1	300/1500	N/A	N/A
2-10%	50:1 TO 10:1	125/1000	250/2000	300/2500
10-20%	10:1 TO 5:1	100/750	150/1000	200/1000
20-33%	5:1 TO 3:1	60/500	80/750	100/1000
33-50%	3:1 TO 2:1	40/250	70/350	100/500
>50%	>2:1	20/125	30/175	50/250

**STANDARD SILT FENCE (SF)** IS FABRIC ROLLS STAPLED TO WOODEN STAKES DRIVEN 16" IN THE GROUND.  
**REINFORCED SILT FENCE (RF)** IS FABRIC PLACED AGAINST WELDED WIRE FABRIC WITH ANCHORED STEEL POSTS DRIVEN 16" IN THE GROUND.  
**SUPER SILT FENCE (SSF)** IS FABRIC PLACED AGAINST CHAIN LINK FENCE AS SUPPORT BACKING WITH POSTS DRIVEN 3' IN THE GROUND.

PIPE SIZE (IN)	PIPE SLOPE	STONE FILL APRON SIZES*			
		STONE DIMENSION (SQ) (IN)	STONE FILLING	APRON THICKNESS (FT) (IN)	APRON LENGTH (Ld) (FT)
12	0-3%	4	LIGHT	18	10
	3-7%	6	LIGHT	18	14
16,18	0-3%	6	LIGHT	18	14
	3-7%	9	MEDIUM	24	15
24	0-3%	9	MEDIUM	24	20
	3-7%	12	MEDIUM	30	24
30	0-3%	12	MEDIUM	24	14
	3-7%	15	MEDIUM	24	20
36	0-3%	15	MEDIUM	24	20
	3-7%	18	MEDIUM	30	26
42	0-3%	18	MEDIUM	30	30
	3-7%	21	MEDIUM	36	45
48	0-3%	21	MEDIUM	36	36
	3-7%	24	MEDIUM	42	42
60	0-3%	24	MEDIUM	42	42
	3-7%	30	HEAVY	54	66

\*THE ABOVE TEXT IS BASED ON: NYS DOT NEW YORK STATE STANDARDS & SPECIFICATIONS FOR EROSION & SEDIMENT CONTROL - FIGURE 3.16 OUTLET PROTECTION DESIGN - MINIMUM TAILWATER CONDITION (DESIGN OF OUTLET PROTECTION FOR A ROUND PIPE FLOWING FULL, MINIMUM TAILWATER CONDITION: 1% x 0.005) (0.004-NRCS)

**6 RIPRAP OUTLET PROTECTION**  
SCALE: NTS

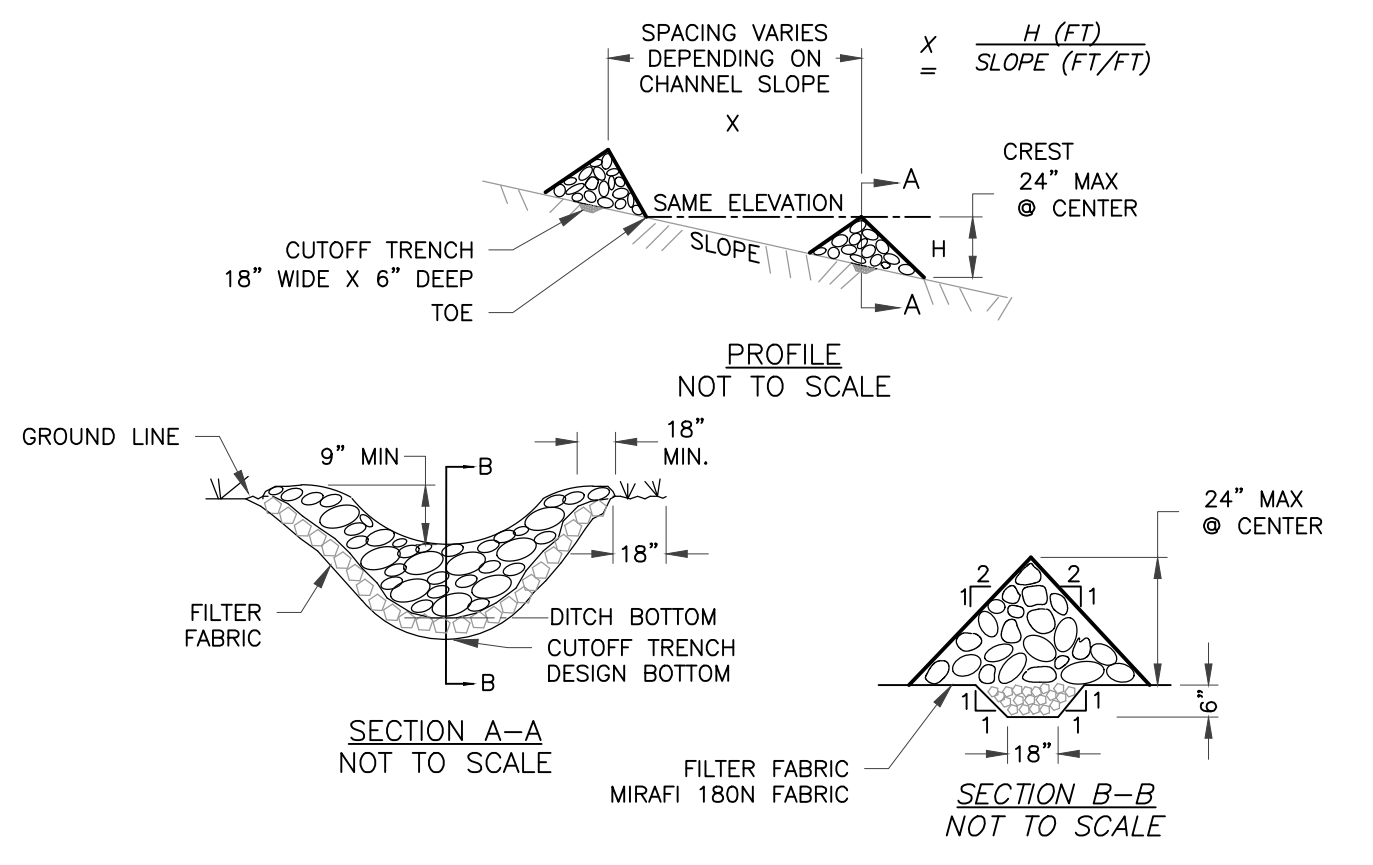


**9 TYPICAL CULVERT DETAIL**  
SCALE: NTS

TOWN OF WILTON WATER & SEWER AUTHORITY  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

TOWN OF WILTON PLANNING BOARD  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

**7 STONE CHECK DAM DETAIL**  
SCALE: NTS



- CONSTRUCTION SPECIFICATIONS**
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
  2. 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.
  3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
  4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
  5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA TWO (2) ACRES.

**8 TYPICAL TRENCH DETAIL FOR CORRUGATED HDPE PIPE**  
SCALE: NTS

UNAUTHORIZED ADDITION TO THIS LOCATION OF THE INSULATION ENGINEERING

PRELIMINARY / NOT FOR CONSTRUCTION  
BULLARD LANE RESIDENTIAL SUBDIVISION  
WILTON, SARATOGA COUNTY, NEW YORK

E LANSING ENGINEERING  
SARATOGA COUNTY DEPARTMENT OF HEALTH

EROSION, SEDIMENT CONTROL & STORM SEWER DETAILS  
PROJ. NO: 1061.01  
SCALE: AS SHOWN  
DATE: 2/03/2026  
DT-1  
SHEET 11 OF 15

**GENERAL WATER NOTES:**

- 1) ALL WATER DISTRIBUTION SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH THE RULES, REGULATIONS, AND CONSTRUCTION STANDARDS OF THE WILTON WATER AND SEWER AUTHORITY (WWSA), AND MOST RECENT STANDARDS AND SPECIFICATIONS OF THE NYSDOH AND NYSDDEC. ALL WATER MAIN FITTINGS SHALL USE BLUE BOLTS AND GRIPPING (OR EQUAL) MECHANICAL JOINT RESTRAINTS.
- 2) THE CONTRACTOR SHALL VERIFY SIZE, TYPE, HORIZONTAL, AND VERTICAL LOCATION OF THE EXISTING WATER MAIN AT THE PROPOSED CONNECTION POINTS PRIOR TO CONSTRUCTION OF ANY MATERIALS. CONFLICTS WITH OTHER UTILITIES TO BE CONSTRUCTED ARE TO BE AVOIDED. DISCREPANCIES OR CONFLICTS WITH EXISTING UTILITIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 3) MINIMUM WATER MAIN DEPTH (TOP OF PIPE TO FINISH GRADE) SHALL BE 5'-0".
- 4) ALL FILL BELOW WATER MAIN SHALL BE COMPACTED GRANULAR MATERIAL (MIN 95% MODIFIED PROCTOR TYP).
- 5) ALL TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED TO PREVENT SETTLEMENT. TOP TRENCH WITH 12" MIN. FINE-GRAINED GRAVEL IN PAVED AREAS AND ALONG SIDE OF EXISTING ROAD FOR SHOULDER BASE. REPLACE DAMAGED PAVEMENTS WITH LIKE KIND AND LIKE THICKNESS.
- 6) WATER MAINS SHALL BE 8" PE4710 DR-11 "BLUE STRIPE" AS APPROVED BY THE WWSA.
- 7) WATER MAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AWWA STANDARDS: C600-17 FOR DUCTILE IRON, C900-22 FOR PVC.
- 8) ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA STANDARD C602.
- 9) ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE ENCASED IN ACCORDANCE WITH AWWA C105 UNLESS TEST RESULTS PROVIDED BY THE CONTRACTOR INDICATE THE ABSENCE OF SEVERELY AGGRESSIVE SOILS.
- 10) ALL WATER PIPE AND APPURTENANCES SHALL BE EITHER NSF OR UL APPROVED FOR USE WITH POTABLE WATER AND SHALL BEAR THEIR RESPECTIVE SEAL.
- 11) HYDRANTS SHALL BE LOCATED AT STREET INTERSECTIONS AND AT INTERMEDIATE POINTS AS INDICATED ON THE PLANS. CARE SHALL BE USED, WHEN LAYING MAINS, SO AS TO AVOID CREATING HIGH POINTS BETWEEN HYDRANTS.
- 12) MINIMUM SEPARATIONS BETWEEN WATER MAINS AND SANITARY AND STORM SEWERS ARE REQUIRED PER NYSDOH AND TEN STATE STANDARDS AT CROSSINGS, 18" MIN. WHERE PAVEMENT IS NOT REQUIRED.
- 13) THRUST BLOCKING SHALL BE CAST-IN-PLACE CONCRETE AND SHALL BE SIZED AS PER THRUST BLOCK SCHEDULE. MECHANICAL RESTRAINTS MUST BE APPROVED BY THE WWSA.
- 14) ALL NEW WATER MAINS ARE TO BE HYDROSTATICALLY TESTED TO THE CURB STOP IN ACCORDANCE WITH CURRENT AWWA STANDARDS: C600-17 SECT. 4 FOR DUCTILE IRON AND MANUAL M23 FOR PVC. RESULTS TO BE SUBMITTED TO WWSA DIRECTOR. MODIFICATIONS TO EXISTING MAINS SHALL BE DISINFECTED BY SWAB METHOD AND VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL.
- 15) ALL WATER MAINS SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH CURRENT AWWA STANDARDS C651-14 (SEE DISINFECTION PROCEDURE THIS SHEET). RESULTS TO BE SUBMITTED TO THE WWSA DIRECTOR.
- 16) CURB BOXES ARE TO BE INSTALLED SO THAT CAPS EXTEND ABOVE FINISHED GRADE 1" AND IDENTIFIED WITH BLUE PAINTED 2X4 LUMBER MARKER EXPOSED 2' ABOVE THE GROUND SURFACE IN GRASSY AREAS. IN PAVED AREAS USE TWO PIECE CURB BOX CAP (W/ PENTAGONAL PLUG) AND CAST IRON CURB BOX SLEEVE TO ALLOW ADJUSTMENT OF THE GROUND KEY LID (MUELLER H-10342 OR APPROVED EQUAL).
- 17) IT WILL BE THE CONTRACTORS RESPONSIBILITY TO ADHERE STRICTLY TO ALL RELEVANT NYS OSHA LABOR SAFETY STANDARDS INCLUDING, BUT NOT LIMITED TO, THOSE RELATING TO CONSTRUCTION SAFETY AND TRENCH SHORING.
- 18) ALL GENERAL AND SPECIFIC NOTES AND DETAILS ON OTHER PLAN SHEETS THAT ARE PART OF THESE PLANS SHALL APPLY.
- 19) UTILITY SERVICE MUST BE MAINTAINED TO ALL SYSTEM USERS DURING CONSTRUCTION ACTIVITIES.
- 20) ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH CURRENT AWWA STANDARDS C-651-14 OR OTHER METHOD APPROVED BY THE WWSA. FOLLOWING FLUSHING, WATER SAMPLES SHALL BE COLLECTED FROM THE MAIN AT EACH BRANCH, FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. WATER SAMPLES SHALL BE COLLECTED AND THE WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL THE WATER HAS BEEN APPROVED AND NOTIFICATION THEREOF RECEIVED.

**TOWN OF WILTON WATER & SEWER AUTHORITY (WWSA) STANDARD NOTES:**

- 1) ALL WATER SYSTEMS ALONG WITH ALL RELATED PROPERTIES AND EASEMENTS NEEDED FOR WATER SERVICE FOR THIS PROJECT SHALL BE OFFERED WITHOUT COST TO THE WWSA. ALL COSTS ASSOCIATED WITH THE TRANSFER OF PROPERTY AND SYSTEMS SHALL BE AT THE APPLICANT'S EXPENSE. UPON ACCEPTANCE BY THE WWSA, THE WWSA WILL OWN ALL WATER SYSTEMS.
- 2) THE APPLICANT IS RESPONSIBLE TO PROVIDE A CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER THAT ALL WATER AND SANITARY WASTEWATER SYSTEMS ARE CONSTRUCTED IN COMPLIANCE WITH THE APPROVED PLANS. P.E. STAMPED/SIGNED MYLAR RECORD DRAWINGS SHALL BE SUBMITTED TO THE WWSA.
- 3) THE APPLICANT IS REQUIRED TO COMPLY WITH ALL OF THE WWSA'S PERFORMANCE BOND AND FEE REQUIREMENTS (INCLUDING, BUT NOT LIMITED TO, WATER SERVICE BUY-IN FEES). THE APPLICANT SHOULD CONTACT THE WWSA DIRECTLY TO DETERMINE THE REQUIRED WATER FEES. THE WWSA INSPECTS WATER FACILITIES, WATER MAINS, AND WATER SERVICES.
- 4) WATER SERVICE MUST BE MAINTAINED TO ALL SYSTEM USERS DURING CONSTRUCTION ACTIVITIES.
- 5) ALL WATER DISTRIBUTION SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH THE RULES, REGULATIONS, AND CONSTRUCTION STANDARDS OF THE WWSA, AND THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE NYSDOH AND NYSDDEC. PLEASE NOTE THE WWSA'S STANDARD HYDRANT, WATER METER, VALVE, AND PIPE MATERIAL REQUIREMENTS. GRIPPING (OR EQUAL) MECHANICAL JOINT RESTRAINTS AND BLUE BOLTS SHALL BE USED FOR ALL WATER MAIN FITTINGS.
- 6) WATER METERS SHALL BE LOCATED ON EACH WATER SERVICE. COORDINATE WITH THE WWSA FOR PURCHASE OF THE WATER METER.
- 7) ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH CURRENT AWWA STANDARDS C-651-14 OR OTHER METHOD APPROVED BY THE WWSA. FOLLOWING FLUSHING, WATER SAMPLES SHALL BE COLLECTED FROM THE MAIN AND EACH BRANCH. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. WATER SAMPLES SHALL BE COLLECTED AND THE WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL THE WATER HAS BEEN APPROVED AND NOTIFICATION THEREOF RECEIVED.
- 8) ALL NEWLY INSTALLED WATER MAINS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C-600.
- 9) ALL SANITARY WASTEWATER SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, AND TESTED IN ACCORDANCE WITH THE RULES, REGULATIONS, AND CONSTRUCTION STANDARDS OF THE SARATOGA COUNTY SEWER DISTRICT (SCSD) AND THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE NYSDOH AND NYSDDEC.

**DISINFECTION PROCEDURE:**

- 1) MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE CURRENT AWWA STANDARDS FOR DISINFECTING WATER MAINS, C-651-14, WITH THE EXCEPTION OF SECTION 5.1. TABLE METHOD WATER CONTAINING NOT MORE THAN 50 PARTS PER MILLION OF FREE AVAILABLE CHLORINE SHALL BE ALLOWED TO STAND IN ALL LINES AND SYSTEMS FOR AT LEAST 24 HOURS. AFTER WHICH TIME THERE SHALL BE AT LEAST 25 PARTS PER MILLION RESIDUAL CHLORINE REMAINING IN THE WATER. NEW VALVES AND HYDRANTS SHALL BE OPERATED WHILE THE LINES ARE FILLED WITH HEAVILY CHLORINATED WATER. FOLLOWING CHLORINATION TO THE SATISFACTION OF THE TOWN, ALL DISINFECTING WATER SHALL BE FLUSHED FROM THE LINES UNTIL THE CHLORINE RESIDUAL DOES NOT EXCEED 1.0 PARTS PER MILLION. WHEN ALL LINES HAVE BEEN FLUSHED CLEAN TO THE WATER SUPERINTENDENT'S SATISFACTION, THE OWNER OR HIS REPRESENTATIVE SHALL COLLECT SAMPLES OF WATER AT LOCATIONS DIRECTED BY THE WATER SUPERINTENDENT AND UNDER HIS SUPERVISION. THE SAMPLES SHALL BE SENT TO AN APPROVED TESTING LABORATORY FOR BACTERIAL ANALYSIS AND THE TEST RESULTS SHALL BE SENT TO THE TOWN. DISINFECTION FLUSHING WATER MUST BE DISCHARGED IN ACCORDANCE WITH NYSDDEC REGULATIONS. WATER TO BE NEUTRALIZED ACCORDING TO AWWA C601 APPENDIX B.
- 2) AFTER THE CHLORINATION PROCEDURE IS COMPLETED, AND BEFORE THE WATER MAIN IS PLACED IN SERVICE, WATER FROM THE FULL FACILITY SHALL BE SAMPLED AND TESTED FOR COLIFORM ORGANISMS IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER".

**WWSA MATERIAL NOTES:**

- 1) HYDRANTS - 5" AMERICAN DARLING B-84-B-5 WITH 6" ALPHA JOINT BASE AS APPROVED BY WWSA, INSTALLED TRULY VERTICAL, FACTORY COATED IN RED, 5" STORZ CONNECTION NOZZLE.
- 2) GATE VALVES - AMERICAN DARLING 2500 SERIES RESILIENT WEDGE GATE VALVE WITH ALPHA RESTRAINT JOINT ENDS, OPEN LEFT.
- 3) WATERMAIN - PVC C900 DR-18.
- 4) DIRECTIONAL DRILLING PIPE - PE4710 DIPS DR-11 "BLUE STRIPE".
- 5) VALVE BOX - DROP STYLE C.I. COVER INCLUDING "WATER" AND OPEN LEFT ARROW CAST IN. (TELESCOPIC PATTERN)
- 6) WATER SERVICE LINES - 1" CTS HDPE, SDR-9 200 PSI PE 3408 TUBING WITH STAINLESS STEEL STIFFENER INSERTS FOR ALL CONNECTIONS.
- 7) CORPORATION STOP - MUELLER H-15008 CORPORATION STOP WITH 110 COMPRESSION CONNECTION.
- 8) CURB STOP - MUELLER MARK II ORISEAL CURB STOP WITH 110 COMPRESSION CONNECTION MODEL H-15209 OR APPROVED EQUAL.
- 9) CURB BOX - MUELLER H-10306 CURB BOX EXTENSION TYPE WITH ARCH PATTERN BASE (54" TO 66" RANGE) AND 51" 82867 STATIONARY ROD, 87081 LD
- 10) PIPE RESTRAINT - CONCRETE THRUST BLOCK OR ROMAC STYLE 611 RESTRAINING SYSTEM AND EBAA PV-2000 RETAINING TYPE GLANDS OR EQUAL.

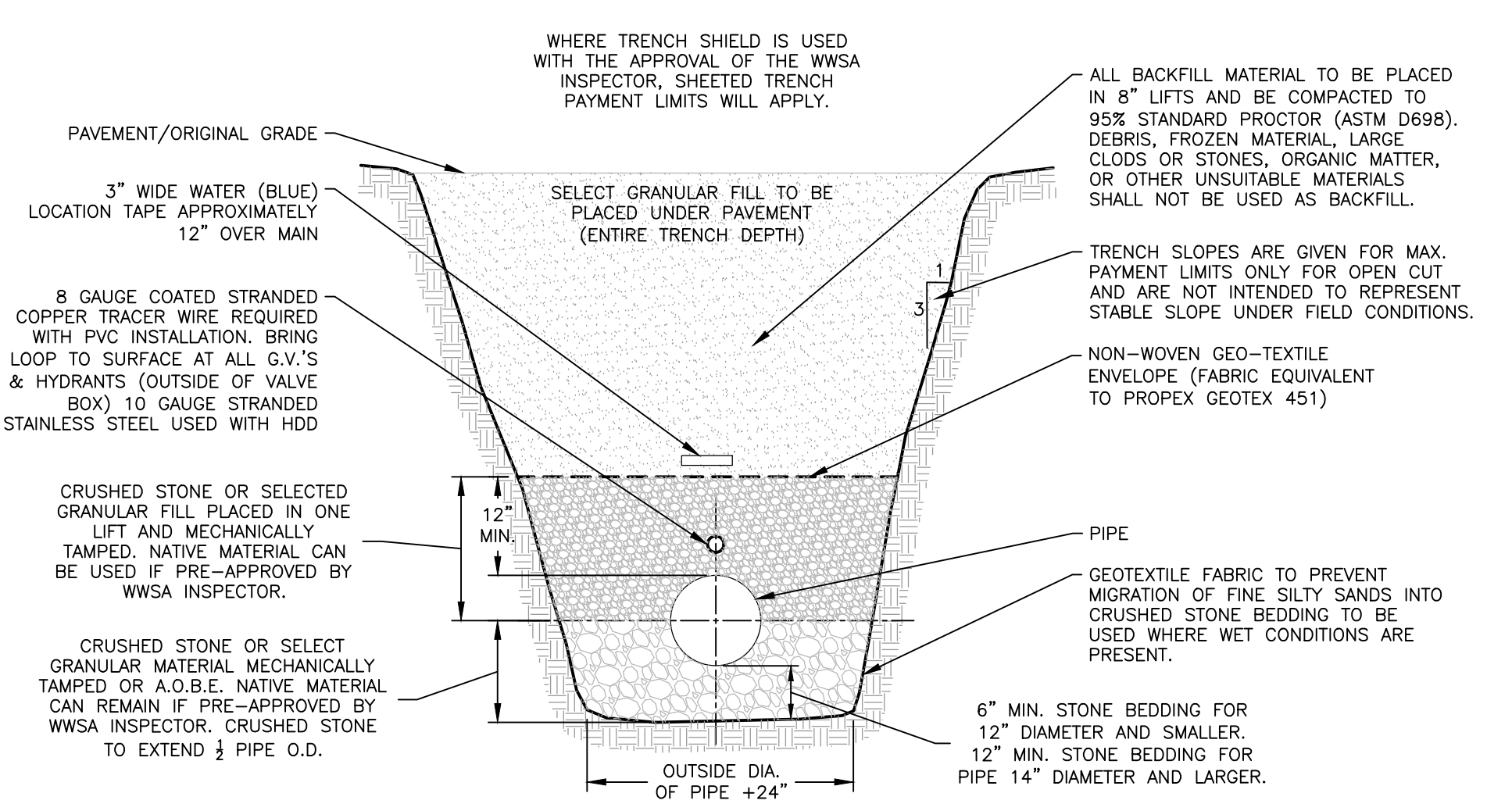
**THRUST BLOCK NOTES:**

- 1) VALVES FOR TEES APPLY TO TEES, END PLUGS, CAPS AND TAPPING SLEEVES.
- 2) REQUIRED BEARING AREAS ARE DUE TO THRUSTS CAUSED BY 150 PSI WORKING PRESSURE PLUS 50% (75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE.
- 3) REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 3,000 PSF. IF OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS MAY BE MODIFIED BY THE WATER SUPERINTENDENT.
- 4) IN MUCK, PEAT OR RECENTLY PLACED FILL, ALL THRUSTS SHALL BE RESISTED BY PILES OR THE RODS TO SOLID FOUNDATIONS OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACED WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS. ALL AS REQUIRED BY THE WATER SUPERINTENDENT.
- 5) ALL THRUST BLOCKS SHALL BE CAST-IN-PLACE.
- 6) ALL DUCTILE IRON WATER MAIN SHALL BE ENCASED IN POLYETHYLENE, IF TESTING WARRANTS.

BEARING STRENGTH = % (LB/SQ.FT.)	
SOIL	SOIL
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD CLAY	9,000

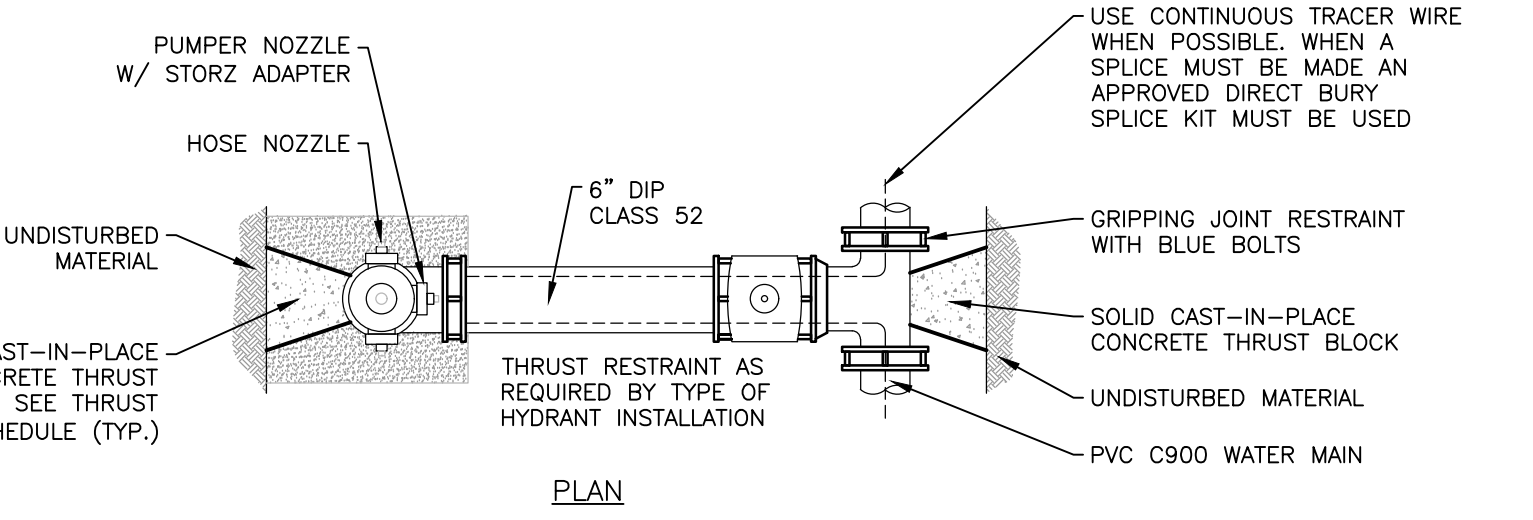
REQUIRED BEARING AREAS FOR THRUST BLOCKS (SQ.FT.)					THRUST REACTIONS (PER 100 PSI INTERNAL PRESSURE) = R(LB)					THRUST BLOCK DIMENSIONS ON VERTICAL TRENCH WALL ORIGINAL GROUND (FEET)				
PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	11K' BEND	PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	11K' BEND	PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	11K' BEND
4	2.0	2.8	1.5	0.8	4	1,810	2,559	1,385	706	4	1.0x2.0	1.0x2.8	0.75x2.0	0.8x1.0
6	4.2	5.9	3.2	1.6	6	3,739	5,288	2,862	1,459	6	1.5x2.8	1.5x4.0	1.0x3.2	1.0x1.6
8	7.2	10.1	5.5	2.8	8	6,433	9,097	4,923	2,510	8	2.0x3.8	2.0x5.1	1.4x3.9	1.4x2.0
10	10.9	15.4	8.3	4.2	10	9,877	13,685	7,408	3,778	10	2.5x4.4	2.5x6.2	1.7x4.9	1.75x2.4
12	15.4	21.8	11.8	6.0	12	13,689	19,353	10,474	5,340	12	3.0x5.2	3.0x7.3	2.0x5.8	2.0x3.0
14	20.6	29.1	15.8	8.0	14	18,385	26,001	14,072	7,174	14	3.5x5.9	3.5x8.3	2.5x6.3	2.5x3.2
16	26.8	37.9	20.5	10.4	16	23,779	33,628	18,199	9,278	16	4.0x6.7	4.0x9.5	2.7x7.6	2.75x3.8
18	33.6	47.5	25.7	13.1	18	29,865	42,235	22,858	11,653	18	4.5x7.5	4.5x10.6	3.0x8.6	3.0x4.4
20	41.2	58.2	31.5	16.1	20	36,644	51,822	28,046	14,298	20	5.0x8.25	5.0x11.7	3.4x9.3	3.4x4.75
24	58.8	81.5	45.0	22.9	24	52,279	73,934	40,013	20,398	24	6.0x9.8	6.0x13.9	4.0x11.25	4.0x5.75
30	90.5	128.0	69.2	35.3	30	80,425	113,738	61,554	31,380	30	7.5x12.1	7.5x17.1	5.0x13.8	5.0x7.1
36	129.6	183.3	99.1	50.5	36	115,209	162,931	88,177	44,952	36	9.0x14.4	9.0x20.4	6.0x16.5	6.0x8.4

\*FACTOR OF SAFETY=1.5  
SOIL BEARING OF 3,000 PSF  
225 PSI DESIGN PRESSURE

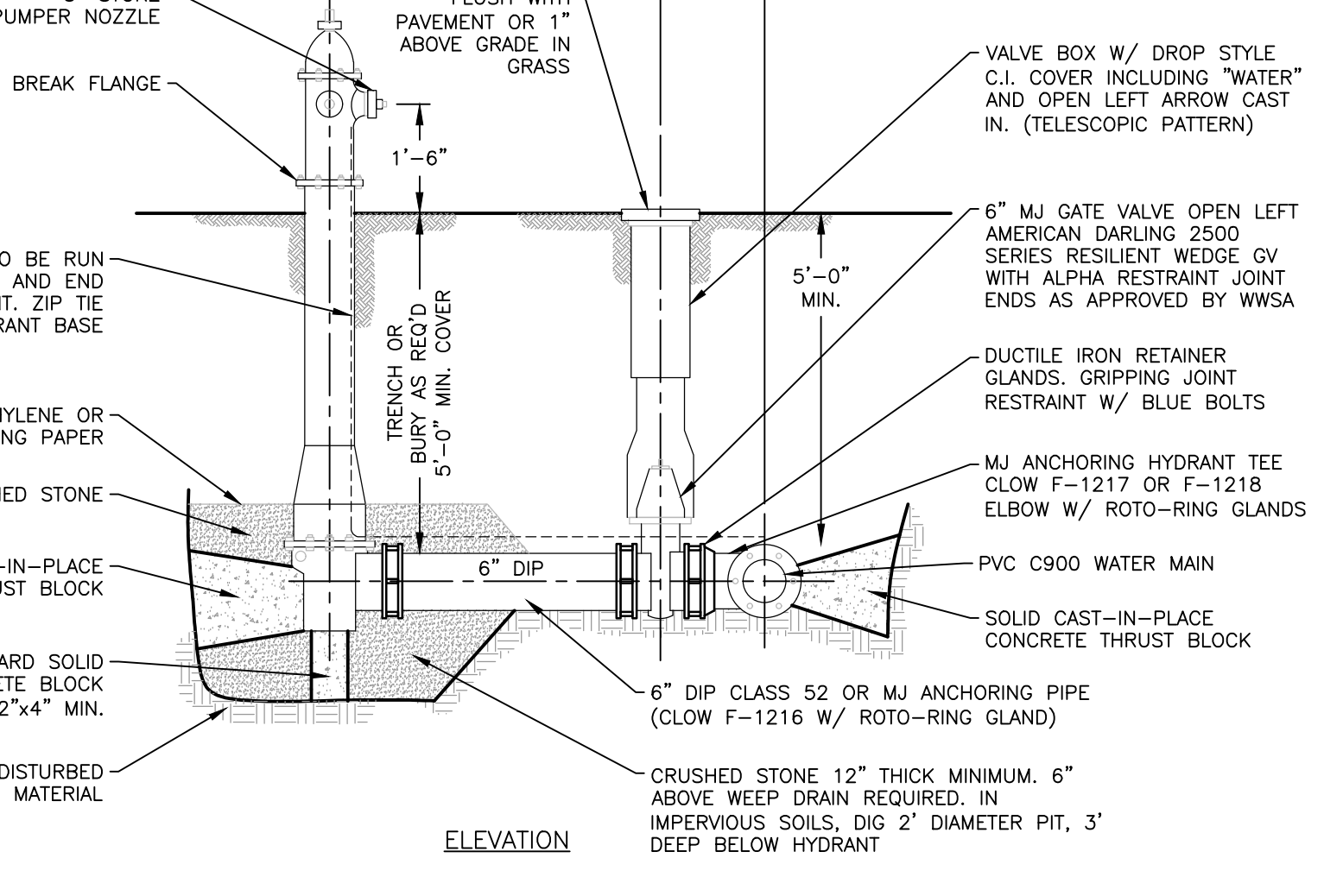


- NOTES:**
- 1) CONTRACTORS MUST COMPLY WITH ALL LOCAL STATE & FEDERAL SAFETY REGULATIONS.
  - 2) STANDARD PIPE INSTALLATION TRENCH: ANSI/AWWA C-600-17 LAYING CONDITION TYPE 2.
  - 3) CRUSHED STONE NOT TO EXCEED #2 IN SIZE.
- SELECT GRANULAR FILL TO MEET THE FOLLOWING REQUIREMENT:
- 0% IN EXCESS OF 1-1/2" 25%-75% PASSING #4 SIEVE  
0%-15% PASSING #200 SIEVE

**1 TYPICAL TRENCH DETAIL FOR PVC/HDPE PIPE**  
SCALE: NTS

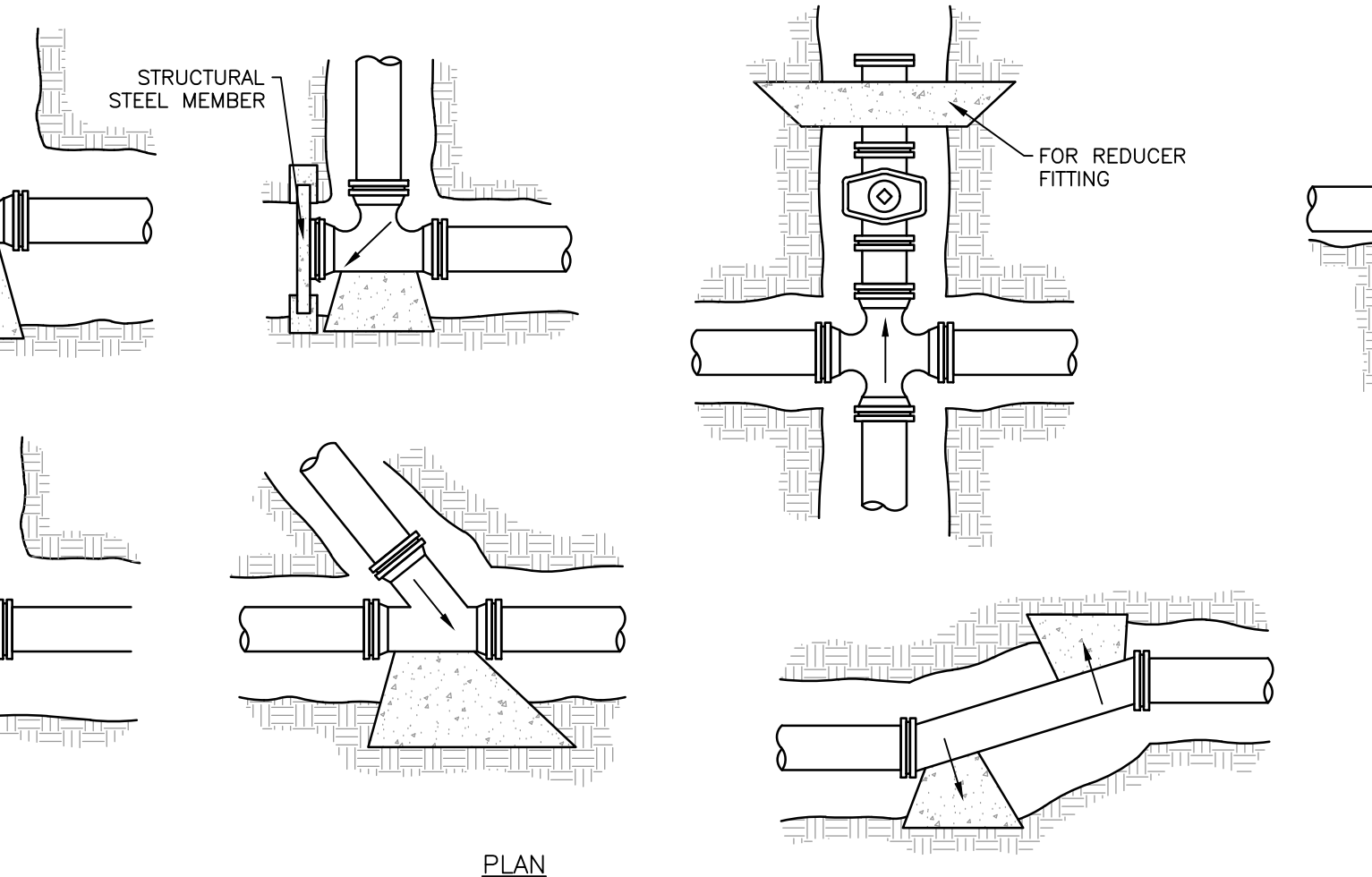


**2 TYPICAL HDPE TO PVC TRANSITION DETAIL**  
SCALE: NTS

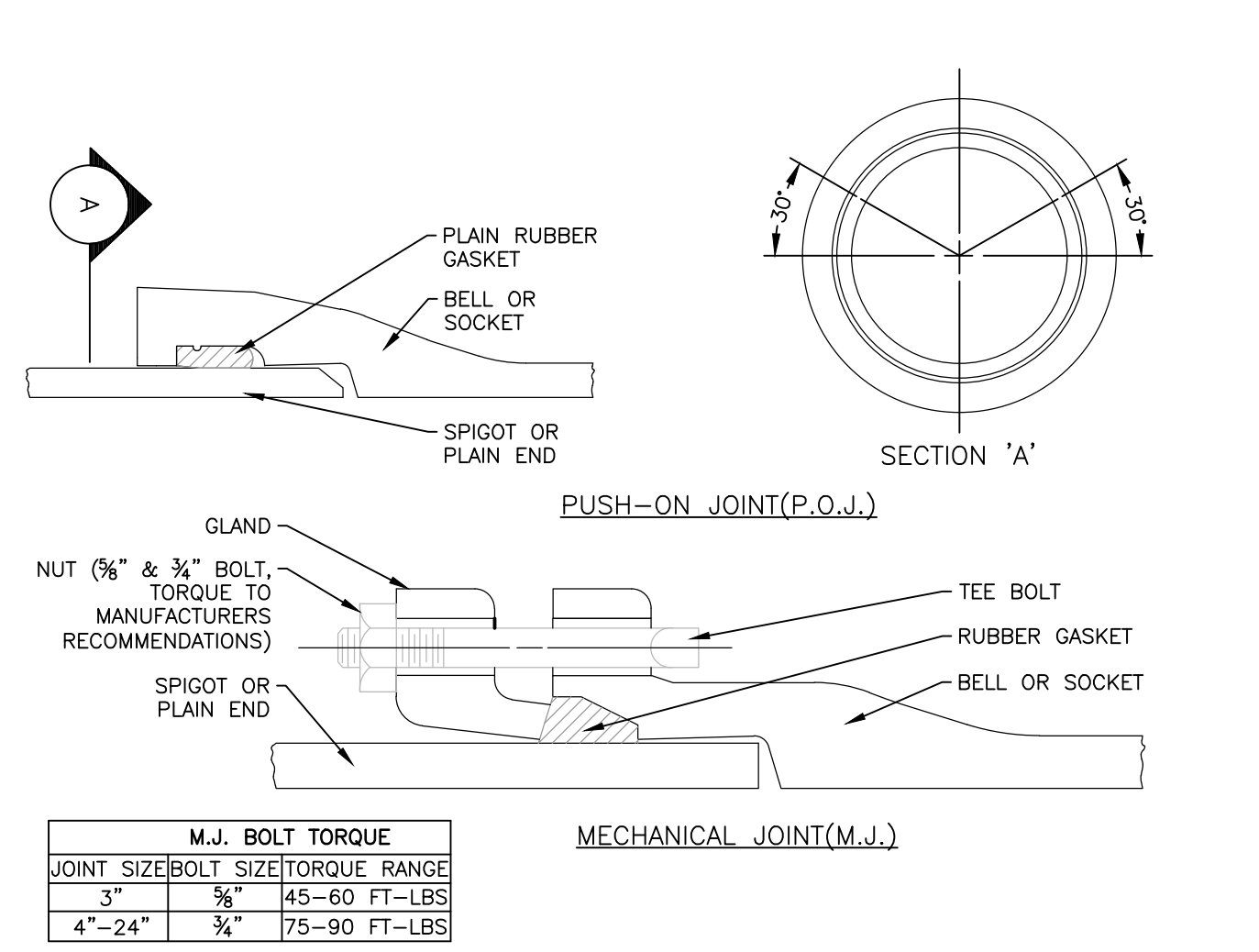


- NOTES:**
- 1) ALL WATER MAIN FITTINGS SHALL USE BLUE BOLTS AND GRIPPING MECHANICAL JOINT RESTRAINTS.
  - 2) HYDRANTS SHALL BE PLACED 5' FROM THE EDGE OF PAVEMENT AND 3' FROM ANY STRUCTURES.

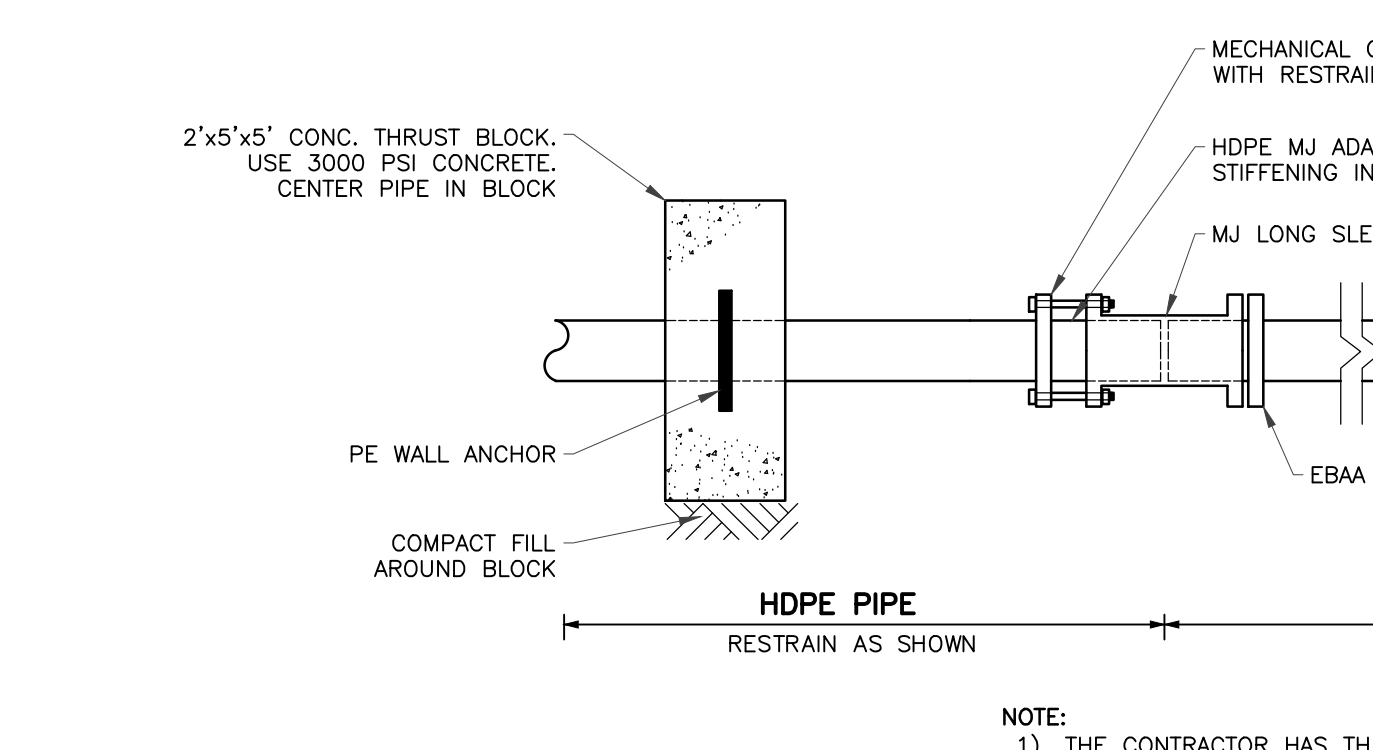
**3 TYPICAL HYDRANT INSTALLATION DETAIL**  
SCALE: NTS



**4 TYPICAL CONC THRUST BLOCK DETAILS**  
SCALE: NTS

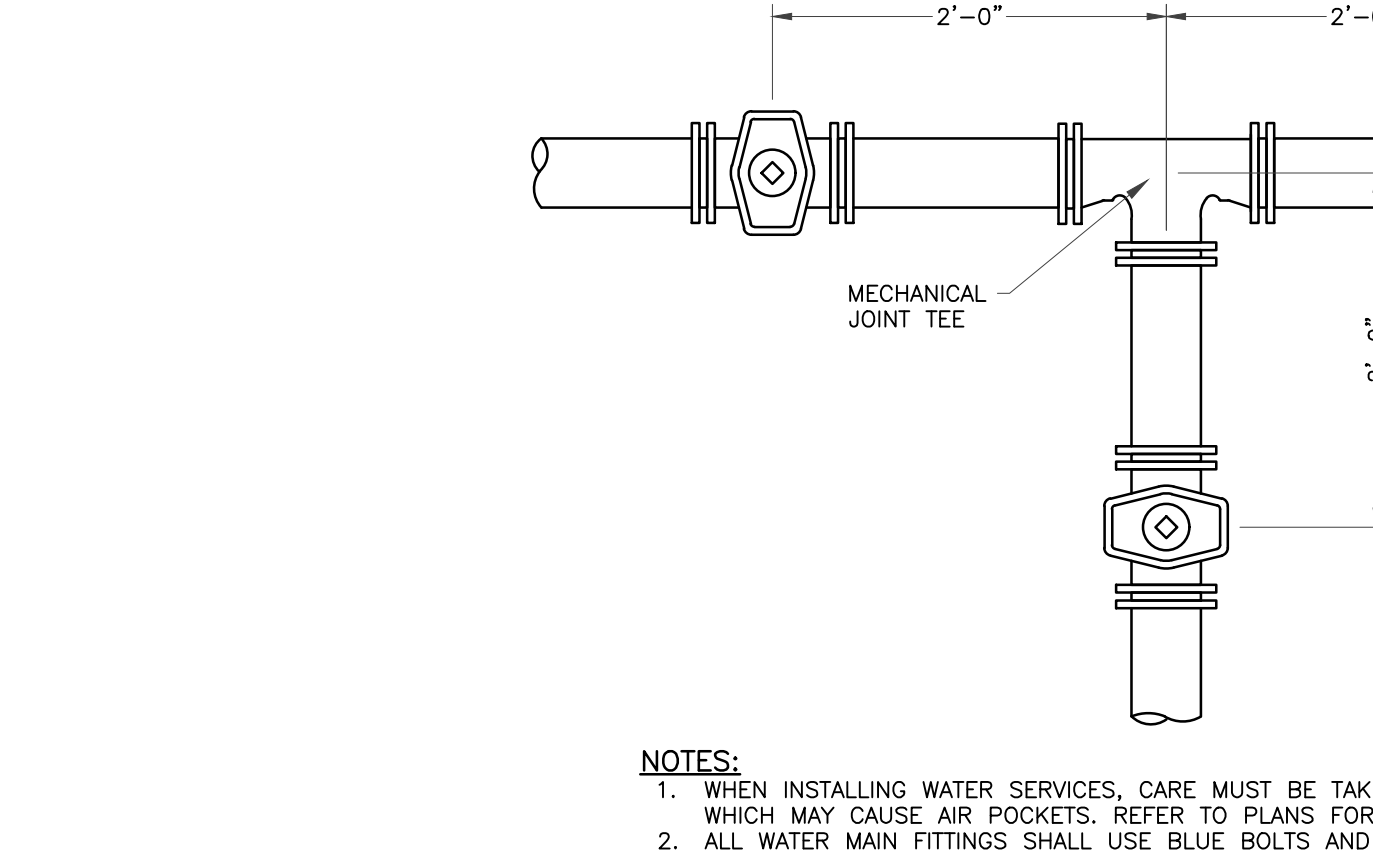


**5 TYPICAL JOINT DETAIL**  
SCALE: NTS

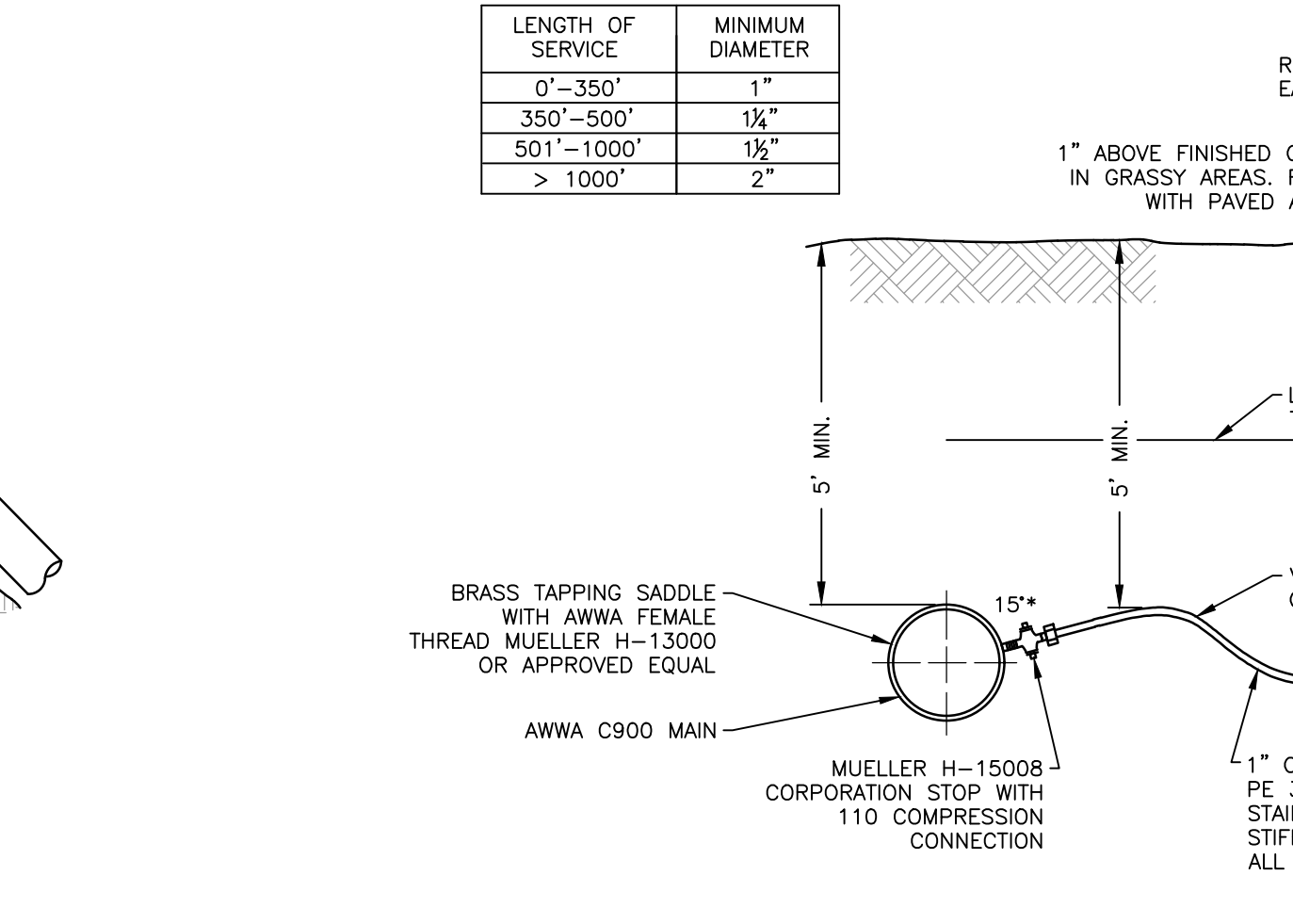


- NOTES:**
- 1) THE CONTRACTOR HAS THE OPTION TO RESTRAIN THE PIPE FITTINGS WITH CONCRETE THRUST BLOCKS, AS SHOWN OR WITH ROMAC STYLE 611 RESTRAINING SYSTEM AND EBAA PV-2000 RETAINING TYPE GLANDS OR EQUAL.
  - 2) ALL WATER MAIN FITTINGS SHALL USE BLUE BOLTS AND GRIPPING MECHANICAL JOINT RESTRAINTS.

**6 TYPICAL JUNCTION LAYOUT**  
SCALE: NTS

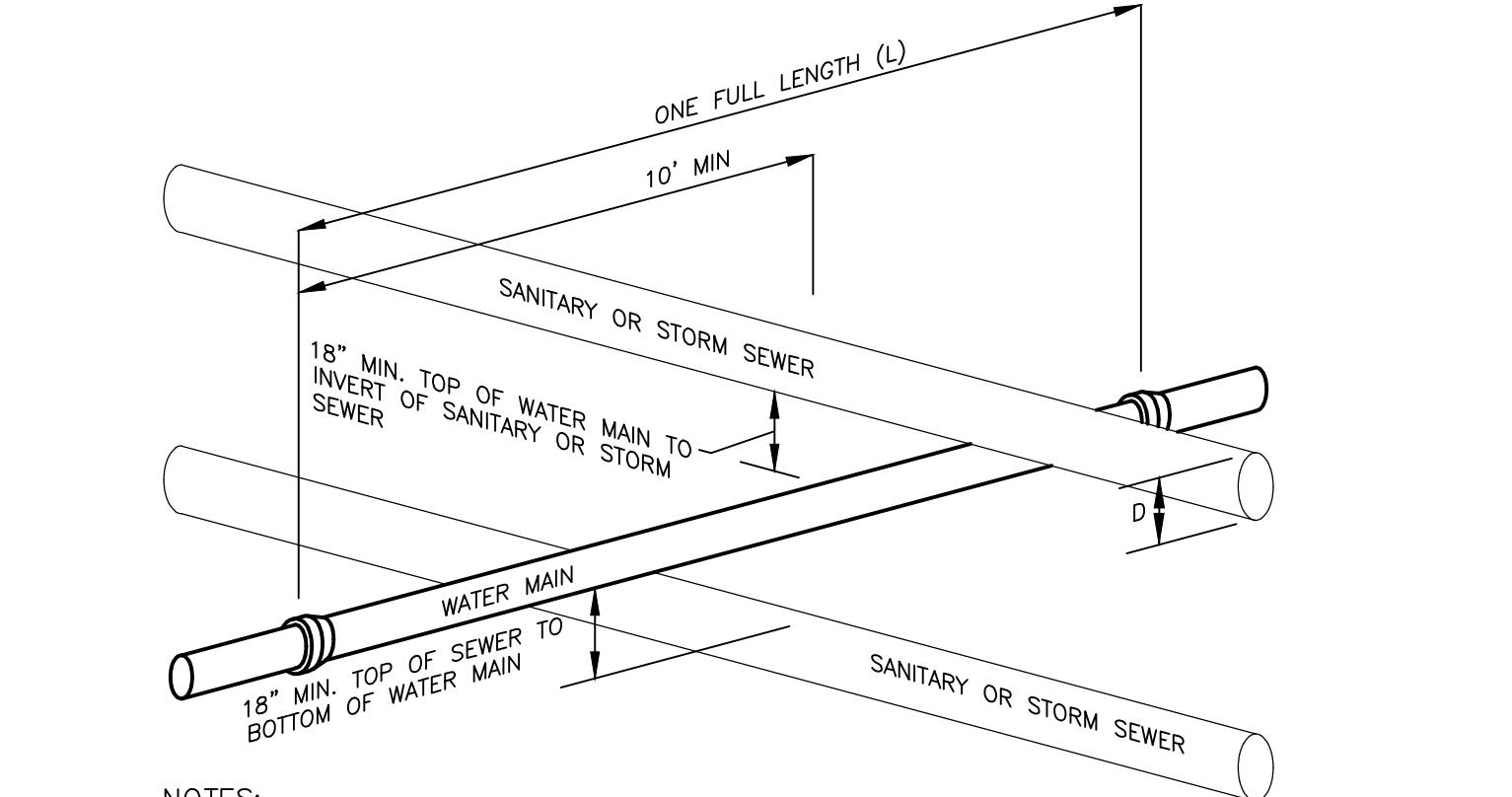


**7 TYPICAL CONCRETE THRUST BLOCK DIMENSIONS**  
SCALE: NTS



- NOTES:**
- 1) 1\"/>

**8 HDPE SERVICE PIPE**  
SCALE: NTS



- NOTES:**
- 1) IF 18\"/>

**9 TYP. SEPARATION REQUIREMENTS**  
SCALE: NTS

TOWN OF WILTON  
WATER & SEWER AUTHORITY  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

TOWN OF WILTON PLANNING BOARD  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

SARATOGA COUNTY DEPARTMENT OF HEALTH

WATER SYSTEM DETAILS

BULLARD LANE RESIDENTIAL SUBDIVISION  
 BULLARD LANE, TOWN OF WILTON, SARATOGA COUNTY, NEW YORK  
 REVISION RECORD/DESCRIPTION  
 DATE  
 UNAUTHORIZED ADDITION TO THIS PROJECT. THE LOCATION OF THE SUPPORT LANSING ENGINEERING, P.C.



**WASTE WATER DISPOSAL SYSTEM SPECIFICATIONS**

**GENERAL NOTES:**

- LIMITS OF THE SYSTEM TO BE ROPED OFF PRIOR TO AND AFTER SYSTEM INSTALLATION TO PREVENT HEAVY EQUIPMENT FROM COMPACTING THE NATURAL USABLE SOIL AND DAMAGE TO THE OF ABSORPTION TRENCHES.
- ALL SEPTIC SYSTEMS ARE TO BE DESIGNED AND CONSTRUCTED IN COMPLIANCE WITH N.Y.S. HEALTH CODE PART 256, "WASTEWATER TREATMENT STANDARDS - INDIVIDUAL HOUSEHOLD SYSTEMS", PERTAINING TO SHALLOW TRENCH SYSTEMS.
- NO EXISTING WELLS, PONDS, WATER COURSES OR WETLANDS EXISTING WITHIN 100 FEET OF PROPOSED SEWAGE DISPOSAL SYSTEM.
- NO ROOF, FOOTING, FLOOR, COOLING WATER, BACKWASH DRAINS ETC. SHALL BE CONNECTED TO THE SEPTIC SYSTEM.
- SEPTIC SYSTEM TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SYSTEM.
- SEDIMENT CONTROL FENCE AND/OR HAY BALE CHECK DAMS TO BE INSTALLED AT LIMIT OF DISTURBANCE UNTIL A PERMANENT STAND OF VEGETATION IS ESTABLISHED.
- ANY CHANGE IN CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- THE EARTH BACKFILL IS TO BE MOUND Slightly ABOVE THE ORIGINAL GROUND LEVEL (I.E., NOT COMPACTED) TO ALLOW FOR SETTLING. FOLLOWING SETTLEMENT, THE ENTIRE AREA HAS TO BE GRADED WITHOUT THE USE OF HEAVY EQUIPMENT AND MUST BE SEEDED WITH GRASS.

**SYSTEM DATA:**

**SEPTIC TANK**  
SEPTIC TANK SHALL BE 1,250 GALLON SEAMLESS DUAL COMPARTMENT PRECAST CONCRETE BY GUARDIAN CONCRETE INC. OR EQUIVALENT. (ADD 250 GALLONS FOR FOR GARBAGE GRINDER, ADD 250 GALLONS FOR WHIRLPOOL SPA). POLYLOK FL-68 (OR EQUAL) EFFLUENT FILTER TO BE INSTALLED ON OUTLET END OF SEPTIC TANK.

**DISTRIBUTION BOX**  
TO PRECAST CONCRETE BOX AND COVER WITH SPEED LEVELERS BY GUARDIAN CONCRETE, INC. OR EQUIVALENT.

**BUILDING TO SEPTIC TANK**  
4" PVC SCH 40 WITH TIGHT JOINTS, MINIMUM SLOPE: 1/4" PER FOOT.

**SEPTIC TANK TO DISTRIBUTION BOX**  
4" PVC SIZES WITH TIGHT JOINTS, MINIMUM SLOPE: 1/8" PER FOOT.

**DISTRIBUTION BOX TO LATERALS**  
4" PVC SCHEDULE 20 WITH TIGHT JOINTS, SLOPE 1/16" TO 1/32" PER FOOT.

**DISTRIBUTION LATERALS**  
4" PVC PERFORATED SCHEDULE 20 WITH TIGHT JOINTS, SLOPE 1/16" TO 1/32" PER FOOT.

**REQUIRED INSPECTIONS:**  
ENGINEER SHALL INSPECT SYSTEM CONSTRUCTION AT THE FOLLOWING STAGES OF CONSTRUCTION.

**INSPECTION #1:** UPON COMPLETION OF GROUND PREPARATION FOR SHALLOW SYSTEM PRIOR TO FILL PLACEMENT NOTE: IF FILL STABILIZATION IS TO BE ACHIEVED BY THE MECHANICAL COMPACTION METHOD CONTRACTOR SHALL SUBMIT A COPY OF THE SIEVE ANALYSIS OF THE FILL MATERIAL TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING FILL.

**INSPECTION #2:** INSPECTION OF STABILIZED FILL  
-NATURAL SETTLEMENT METHOD: AFTER NATURAL STABILIZATION PERIOD INCLUDING PERCOLATION TESTS.  
-MECHANICAL COMPACTION METHOD: ENGINEER SHALL WITNESS PLACEMENT AND COMPACTION OF FILL AND PERFORM PERCOLATION TESTS.

**INSPECTION #3:** UPON COMPLETION OF INSTALLING TRENCHES, PIPING, TANKS AND SIPHON OR PUMP/ALARM (AS APPLICABLE) PRIOR TO BACKFILLING, FACILITIES TO BE INSTALLED FOR INSPECTION INCLUDE THE FOLLOWING:  
-APPROVED FILL MATERIAL IN-PLACE (FULL DEPTH) INCLUDING ABSORPTION TRENCHES WITH DISTRIBUTION LATERALS EXPOSED.

**INSPECTION #4:** UPON COMPLETION OF FINAL GRADING INCLUDING PLACEMENT OF TOPSOIL AND FINAL SEEDING. NOTE: OWNER IS RESPONSIBLE FOR NOTIFYING THE ENGINEER A MINIMUM OF 24 HRS. IN ADVANCE OF EACH REQUIRED INSPECTION. IF WORK COMMENCES WITHOUT THE NOTED INSPECTIONS, THE ENGINEER WILL NOT BE ABLE TO CERTIFY THE SYSTEM AS-BUILT PER PLAN AND THE TOWN WILL NOT BE ABLE TO GRANT A CERTIFICATION OF OCCUPANCY (C.O.)

**CONSTRUCTION NOTES:**

**SITE PREPARATION:**

- ROPE OFF THE SITE TO PREVENT DAMAGE TO THE AREA DURING OTHER CONSTRUCTION ACTIVITY ON THE LOT. VEHICULAR TRAFFIC OVER THE AREA SHOULD BE PROHIBITED TO AVOID SOIL COMPACTION.
- STAKE OUT THE SYSTEM PERIMETER AND BED IN THE PROPER ORIENTATION.
- CUT AND REMOVE ANY EXCESS VEGETATION. TREES SHOULD BE CUT AT GROUND SURFACE AND STUMPS LEFT IN PLACE.
- FLOW THE AREA WITHIN THE SYSTEM PERIMETER. USE A TWO BOTTOM OR LARGE MOLDBOARD FLOW, FLOWING 7-8 INCHES DEEP PARALLEL TO THE CONTOURS. SINGLE BOTTOM FLOWS SHOULD NOT USED, AS THE TRACE WHEEL RUNS IN EVERY FURROW, COMPACTING THE SOIL. EACH FURROW SHOULD BE THROWN UPSLOPE. A CHISEL FLOW MAY BE USED IN PLACE OF A MOLDBOARD FLOW.  
ROTTILLING IS NOT RECOMMENDED BECAUSE OF THE DAMAGE IT DOES TO THE SOIL STRUCTURE. HOWEVER, ROTTILLING MAY BE USED IN GRANULAR SOILS, SUCH AS SANDS. PLOWING SHOULD NOT BE DONE WHEN THE SOIL IS TOO WET, SMearing AND COMPACTION WILL OCCUR. IF A SAMPLE OF THE SOIL IS TAKEN FROM THE PLOW DEPTH FORMS A WIRE WHEN ROLLED BETWEEN PALMS, THE SOIL IS TOO WET. IF IT CRUMBLES, PLOWING MAY PROCEED.

**FILL PLACEMENT AND STABILIZATION:**

**GENERAL REQUIREMENTS**

- PLACE THE GRANULAR FILL MATERIAL OF THE UPSLOPE EDGES OF THE PLOWED AREA. KEEP TRUCKS OFF THE PLOWED AREA.
- MOVE THE FILL MATERIAL INTO PLACE WITH A SMALL TRACK-TYPE TRACTOR WITH A BLADE. ALWAYS KEEP A MINIMUM OF 8 IN. OF MATERIAL BENEATH THE TRACKS OF THE TRACTOR TO MINIMIZE COMPACTION OF NATURAL SOIL.
- STABILIZED FILL SHALL HAVE A PERCOLATION RATE SIMILAR TO NATIVE SOIL.
- A SLIGHT DRAINAGE SWALE SHALL BE CONSTRUCTED UPSLOPE OF THE SYSTEM TO PREVENT INFILTRATION OF SURFACE RUNOFF INTO THE SYSTEM.

**STABILIZATION METHODS**

FILL MATERIAL SHALL BE STABILIZED THROUGH EITHER "NATURAL SETTLEMENT" OR "MECHANICAL COMPACTION" METHODS. THE SPECIFIC REQUIREMENTS FOR EACH METHOD ARE AS FOLLOWS:

**-NATURAL SETTLEMENT METHOD**  
AFTER PLACEMENT OF FILL MATERIAL IN ACCORDANCE WITH THE "GENERAL REQUIREMENTS" NOTED ABOVE, MATERIAL SHALL SETTLE NATURALLY FOR A PERIOD OF AT LEAST (6) MONTHS INCLUDING ONE (1) FREEZE-THAW CYCLE. ENGINEER TO PERFORM PERCOLATION TEST WITHIN STABILIZED FILL TO VERIFY CONFORMANCE WITH SPECIFICATION.

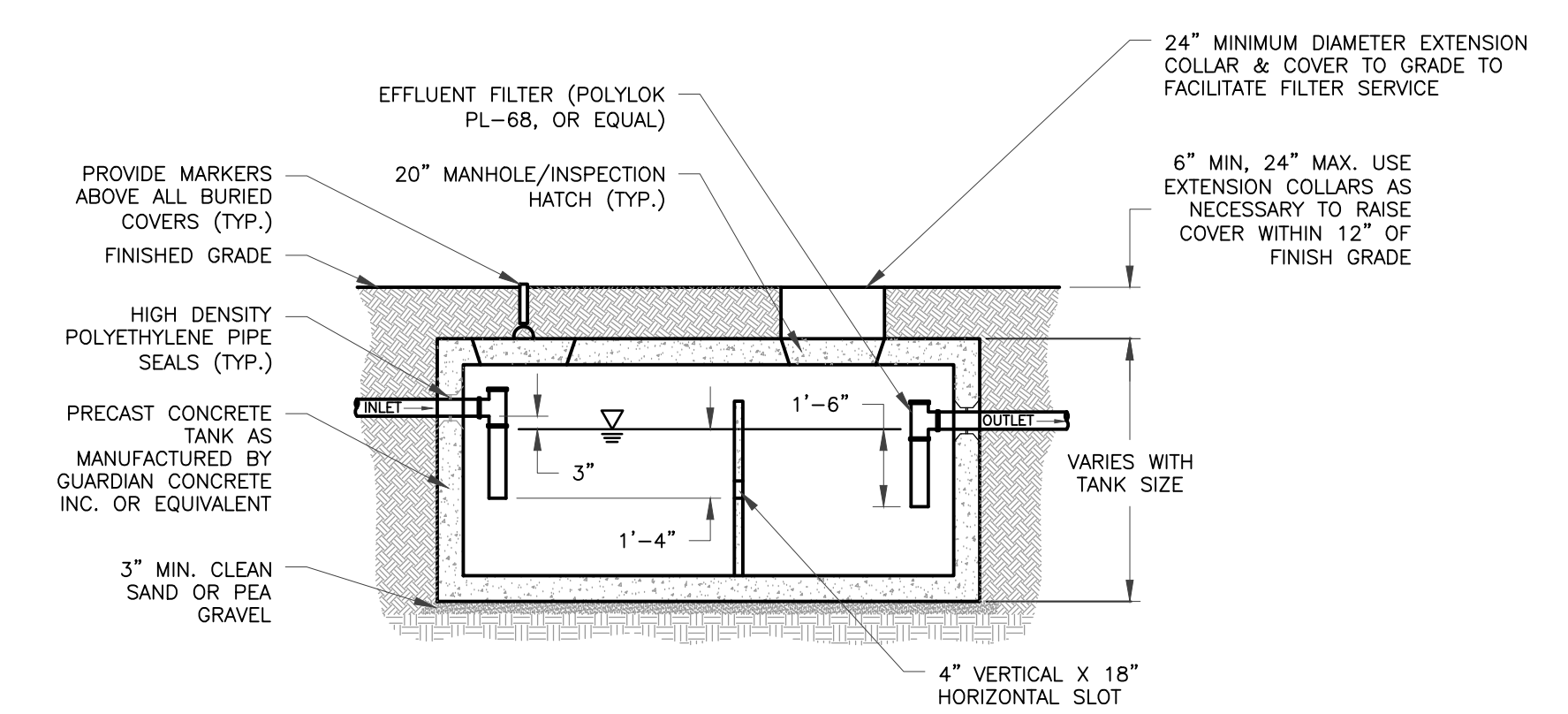
**-MECHANICAL COMPACTION METHOD**  
FILL SPECIFICATIONS: FILL MATERIAL SHALL HAVE LESS THAN TEN (10) PERCENT (BY WEIGHT) FINER THAN No. 200 (0.075mm) SIEVE. CONTRACTOR SHALL SUBMIT SIEVE ANALYSIS RESULTS TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF FILL MATERIAL.

PLACEMENT AND COMPACTION: PLACEMENT AND COMPACTION OF FILL MATERIAL SHALL BE WITNESSED BY THE ENGINEER.

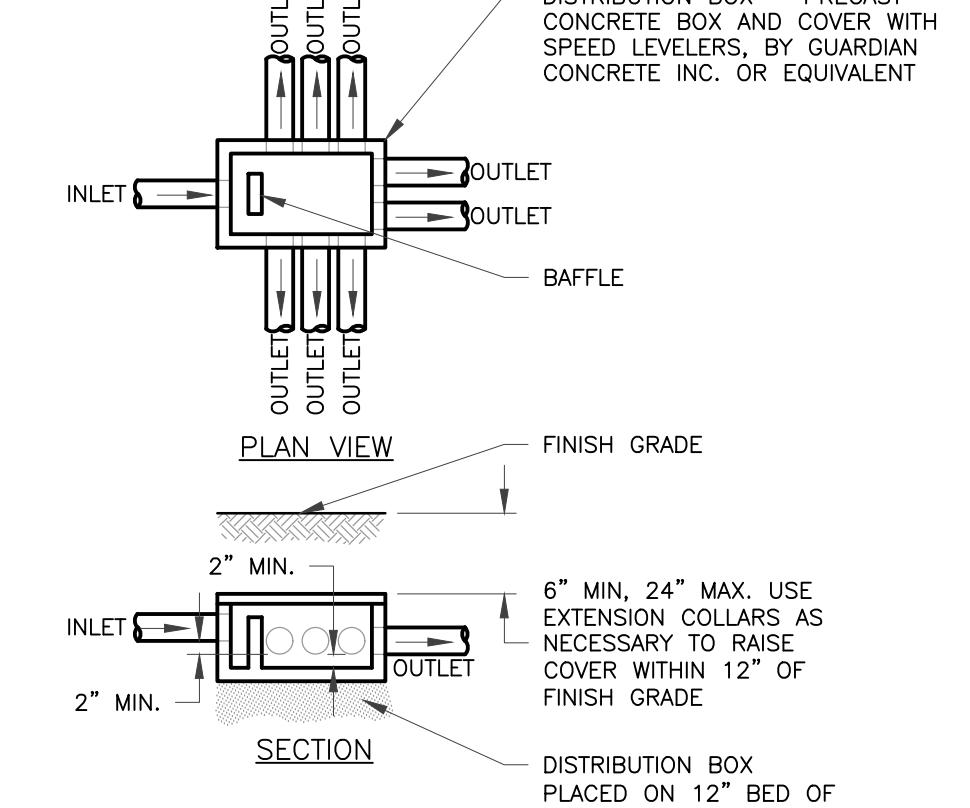
THE STRUCTURE OF NATIVE MATERIAL BENEATH THE SYSTEM SHALL BE PROTECTED FROM DAMAGE FROM TRUCKS OR MACHINERY THROUGHOUT THE CONSTRUCTION PROCESS. TRACK-MOUNTED EQUIPMENT SHALL BE USED TO PLACE AND COMPACT THE FILL.

FILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS. THE FIRST LIFT SHALL BE TWELVE (12) INCHES (LOOSE) FOLLOWED BY FOUR (4) TO SIX (6) INCH (LOOSE) LIFTS UP TO THE REQUIRED FILL HEIGHT.

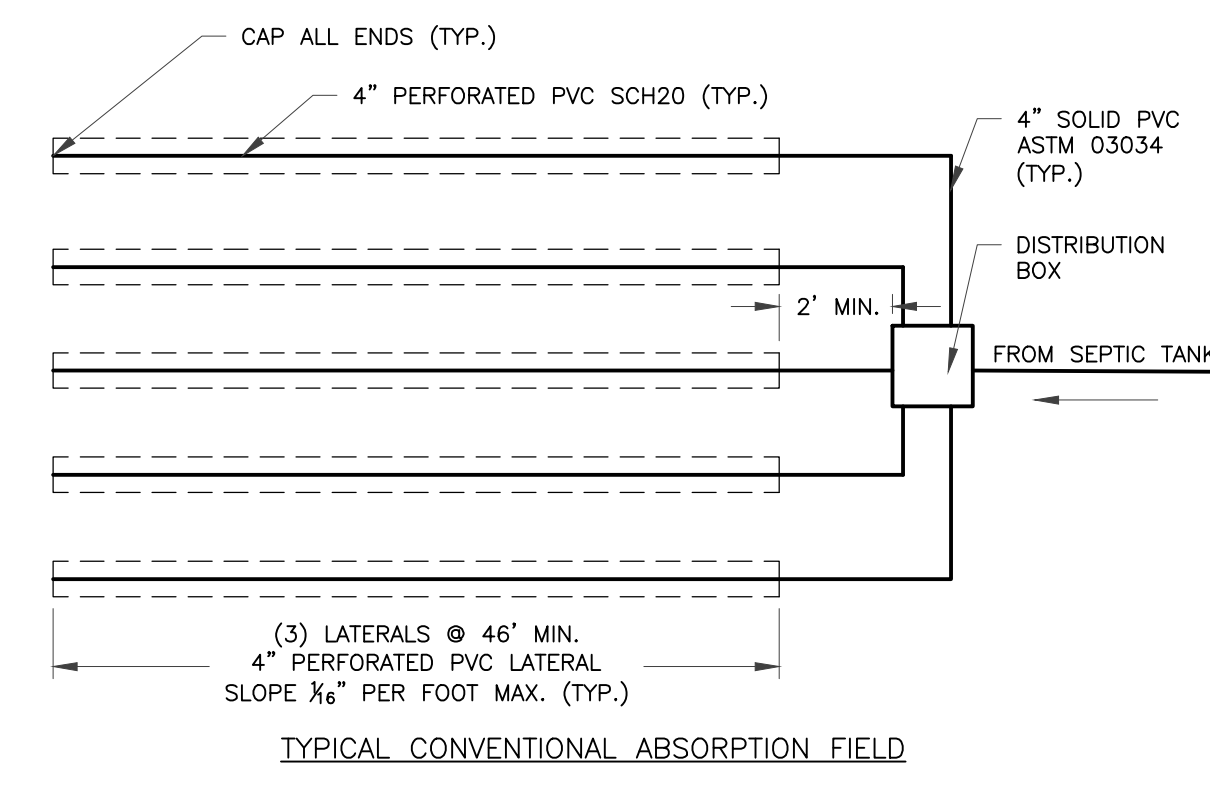
ENGINEER TO PERFORM PERCOLATION TESTS IN COMPACTED FILL MATERIAL TO VERIFY CONFORMANCE WITH SPECIFICATIONS.



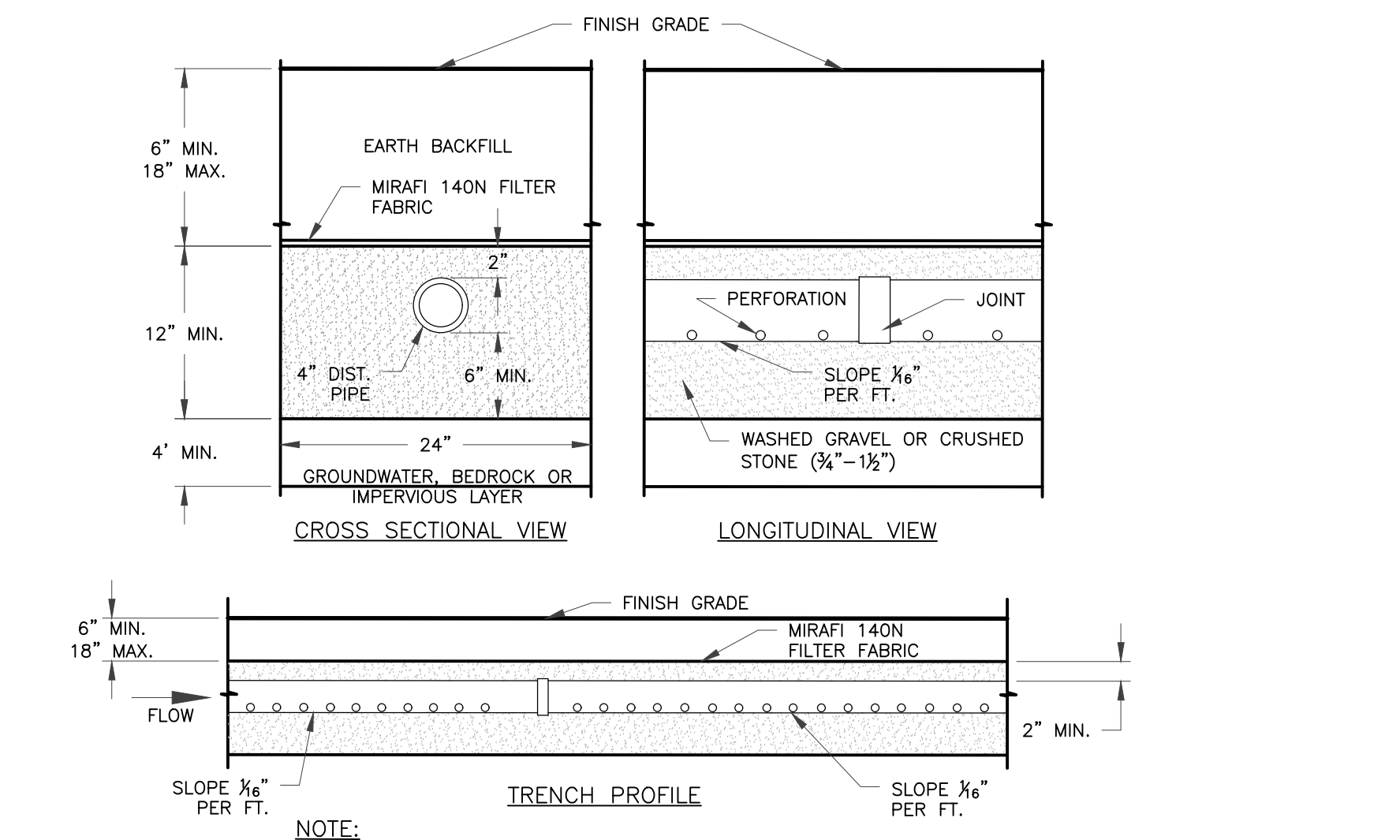
**1 PRECAST SEPTIC TANK - (SEAMLESS) DUAL COMPARTMENT**  
SCALE: NTS



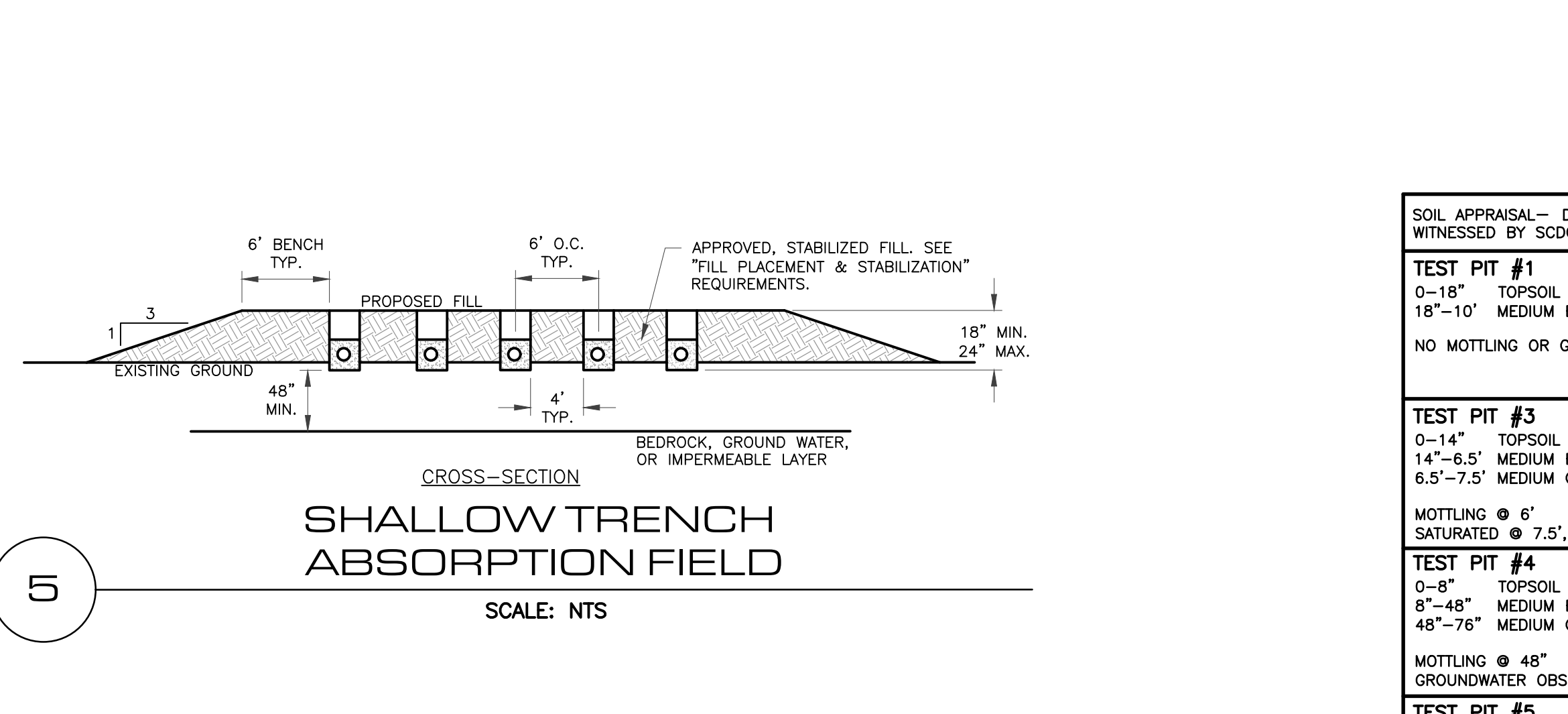
**2 PRECAST DISTRIBUTION BOX**  
SCALE: NTS



**3 TYPICAL ABSORPTION FIELD**  
SCALE: NTS



**4 TYPICAL ABSORPTION TRENCH**  
SCALE: NTS



**5 SHALLOW TRENCH ABSORPTION FIELD**  
SCALE: NTS

**TABLE 6A**  
REQUIRED LENGTH OF CONVENTIONAL ABSORPTION TRENCH FOR STANDARD DAILY DESIGN FLOWS (FEET) (BASED UPON 2'-FOOT WIDE TRENCH)

PERCOLATION RATE	DAILY FLOW RATE (GALLONS/DAY)					
	2 BDRMS	3 BDRMS	4 BDRMS	5 BDRMS	6 BDRMS	7 BDRMS
1 - 5	92	108	136	162	184	216
6 - 7	110	130	165	195	220	260
8 - 10	123	145	184	217	245	290
11 - 15	138	162	207	244	275	325
16 - 20	158	186	236	279	315	372
21 - 30	184	217	275	325	367	433
31 - 45	220	260	330	390	440	520
46 - 60	245	290	367	433	489	578

**TABLE 3**  
MINIMUM SEPTIC TANK CAPACITIES

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

NOTES:  
A) TANK SIZE REQUIREMENTS FOR MORE THAN SIX (6) BEDROOMS SHALL BE CALCULATED BY ADDING 250 GALLONS AND SEVEN (7) SQUARE FEET OF SURFACE AREA FOR EACH ADDITIONAL BEDROOM.  
B) A GARBAGE GRINDER SHALL BE CONSIDERED EQUIVALENT TO AN ADDITIONAL BEDROOM FOR DETERMINING SEPTIC TANK SIZE.  
C) A WHIRLPOOL BATH OR SPA (CONNECTED TO HOUSE PLUMBING) SHOULD BE CONSIDERED EQUIVALENT TO AN ADDITIONAL BEDROOM FOR DETERMINING SEPTIC TANK SIZE.

**MINIMUM SEPARATION DISTANCES**

HOUSE TO SEPTIC TANK	10' MIN.
HOUSE TO ABSORPTION FIELD	20' MIN.
PROPERTY LINE TO ABSORPTION FIELD	10' MIN.
WATER LINE TO ANY SEPTIC SYSTEM COMPONENT	10' MIN.
WELL TO ABSORPTION FIELD	100' MIN.

PERMEABILITY TEST PERFORMED ON 12/23/25 & 12/28/25 BY LANSING ENGINEERING

PERCOLATION TEST LOCATIONS	PERCOLATION RATE
PT1 @ 3' DEPTH	1.1 MIN./IN
PT3 @ 3' DEPTH	2.5 MIN./IN
PT4 @ 3' DEPTH	5.1 MIN./IN
PT5 @ 3' DEPTH	6.1 MIN./IN
PT6 @ 3' DEPTH	3.1 MIN./IN
PT7 @ 3' DEPTH	1.6 MIN./IN
PT8 @ 3' DEPTH	2.7 MIN./IN
PT9 @ 3' DEPTH	2.7 MIN./IN
PT10 @ 3' DEPTH	2.0 MIN./IN
PT11 @ 3' DEPTH	1.5 MIN./IN
PT12 @ 3' DEPTH	1.8 MIN./IN
PT13 @ 3' DEPTH	1.5 MIN./IN
PT14 @ 3' DEPTH	1.7 MIN./IN
PT15 @ 3' DEPTH	1.7 MIN./IN
PT16 @ 3' DEPTH	3.9 MIN./IN
PT17 @ 3' DEPTH	1.5 MIN./IN
PT18 @ 3' DEPTH	1.5 MIN./IN
PT19 @ 3' DEPTH	2.5 MIN./IN
PT20 @ 3' DEPTH	1.3 MIN./IN
PT21 @ 3' DEPTH	4.2 MIN./IN
PT22 @ 3' DEPTH	3.0 MIN./IN
PT23 @ 3' DEPTH	2.8 MIN./IN
PT24 @ 3' DEPTH	1.8 MIN./IN
PT25 @ 3' DEPTH	1.8 MIN./IN
PT26 @ 3' DEPTH	15.1 IN./HR
PT27 @ 3' DEPTH	5.9 IN./HR
PT28 @ 3' DEPTH	22.5 IN./HR
PT29 @ 3' DEPTH	7.0 IN./HR

SOIL APPRAISAL - DEEP HOLE TESTS - PERFORMED 12/23/2025 BY LANSING ENGINEERING & WITNESSED BY SCDDH

<b>TEST PIT #1</b> 0'-18" TOPSOIL & ORGANICS 18"-10" MEDIUM BROWN SAND NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #16</b> 0'-20" TOPSOIL & ORGANICS 20"-8" MEDIUM BROWN ORANGE SAND 8"-10.5" MEDIUM GREY SATURATED SAND MOTTLING @ 8' SATURATED @ 9', NO GROUNDWATER OBSERVED
<b>TEST PIT #3</b> 0'-14" TOPSOIL & ORGANICS 14"-6.5" MEDIUM BROWN ORANGE SAND 6.5"-7.5" MEDIUM GREY SATURATED SAND MOTTLING @ 6' SATURATED @ 7.5', NO GROUNDWATER OBSERVED	<b>TEST PIT #17</b> 0'-12" TOPSOIL & ORGANICS 12"-6" MEDIUM ORANGE SAND 6"-8" FINE BROWN SAND 8"-10.5" MEDIUM GREY SAND MOTTLING @ 8.5' NO GROUNDWATER OBSERVED
<b>TEST PIT #4</b> 0'-8" TOPSOIL & ORGANICS 8"-48" MEDIUM BROWN SAND 48"-76" MEDIUM GRAY SAND MOTTLING @ 48" GROUNDWATER OBSERVED @ 76"	<b>TEST PIT #18</b> 0'-16" TOPSOIL & ORGANICS 16"-48" MEDIUM BROWN SAND 48"-7" FINE ORANGE SAND 7"-9.5" MEDIUM GREY SAND MOTTLING @ 7" NO GROUNDWATER OBSERVED
<b>TEST PIT #5</b> 0'-16" TOPSOIL & ORGANICS 16"-5" MEDIUM ORANGE SAND 5"-9" GREY FINE SAND MOTTLING @ 5.5' GROUNDWATER OBSERVED @ 9"	<b>TEST PIT #19</b> 0'-16" TOPSOIL & ORGANICS 16"-10" MEDIUM BROWN SAND NO MOTTLING NO GROUNDWATER OBSERVED
<b>TEST PIT #6</b> 0'-10" TOPSOIL & ORGANICS 10"-5" MEDIUM BROWN SAND 5"-10" GREY FINE SAND MOTTLING @ 5' SATURATED @ 7', GROUNDWATER OBSERVED @ 9"	<b>TEST PIT #20</b> 0'-16" TOPSOIL & ORGANICS 16"-9" MEDIUM BROWN SAND NO MOTTLING NO GROUNDWATER OBSERVED
<b>TEST PIT #7</b> 0'-12" TOPSOIL & ORGANICS 12"-8" MEDIUM BROWN SAND 8"-10" SATURATED MEDIUM GREY SAND MOTTLING @ 8' SATURATED @ 8', NO GROUNDWATER OBSERVED	<b>TEST PIT #21</b> 0'-16" TOPSOIL & ORGANICS 16"-44" FINE BROWN SAND 44"-6.5" MEDIUM GREY SATURATED SAND MOTTLING @ 44" SATURATED @ 5', GROUNDWATER OBSERVED @ 6.5'
<b>TEST PIT #8</b> 0'-5" TOPSOIL & ORGANICS 5"-9.5" MEDIUM BROWN SAND NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #22</b> 0'-8" TOPSOIL & ORGANICS 8"-40" MEDIUM BROWN SAND 40"-100" MEDIUM GREY SATURATED SAND MOTTLING @ 40" SATURATED @ 5', NO GROUNDWATER OBSERVED
<b>TEST PIT #9</b> 0'-12" TOPSOIL & ORGANICS 12"-10.5" MEDIUM BROWN SAND NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #23</b> 0'-14" TOPSOIL & ORGANICS 14"-10" MEDIUM BROWN SAND NO MOTTLING NO GROUNDWATER OBSERVED
<b>TEST PIT #10</b> 0'-8" TOPSOIL & ORGANICS 8"-9.5" MEDIUM BROWN SAND NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #24</b> 0'-14" TOPSOIL & ORGANICS 14"-9" MEDIUM BROWN SAND NO MOTTLING NO GROUNDWATER OBSERVED
<b>TEST PIT #11</b> 0'-8" TOPSOIL & ORGANICS 8"-9" MEDIUM BROWN SAND NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #25</b> 0'-9" TOPSOIL & ORGANICS 9"-9" MEDIUM BROWN SAND NO MOTTLING NO GROUNDWATER OBSERVED
<b>TEST PIT #12</b> 0'-13" TOPSOIL & ORGANICS 13"-9.5" MEDIUM BROWN SAND NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #26</b> 0'-16" TOPSOIL & ORGANICS 16"-44" MEDIUM BROWN SAND 44"-7" MEDIUM GREY SATURATED SAND MOTTLING @ 44" GROUNDWATER OBSERVED @ 64"
<b>TEST PIT #13</b> 0'-14" TOPSOIL & ORGANICS 14"-8" MEDIUM BROWN SAND 4"-5" NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #27</b> 0'-24" TOPSOIL & ORGANICS 24"-4" FINE BROWN SAND 4"-5" MOTTLING @ 40" GROUNDWATER OBSERVED @ 5'
<b>TEST PIT #14</b> 0'-10" TOPSOIL & ORGANICS 10"-9" MEDIUM BROWN SAND NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #28</b> 0'-16" TOPSOIL & ORGANICS 16"-54" MEDIUM BROWN SAND 54"-68" MEDIUM GREY SATURATED SAND MOTTLING @ 54" SATURATED @ 68', GROUNDWATER OBSERVED @ 66.5'
<b>TEST PIT #15</b> 0'-18" TOPSOIL & ORGANICS 18"-9" MEDIUM BROWN SAND NO MOTTLING OR GROUNDWATER OBSERVED	<b>TEST PIT #29</b> 0'-12" TOPSOIL & ORGANICS 12"-6" MEDIUM ORANGE SAND 6"-8" MEDIUM GREY SATURATED SAND MOTTLING @ 40" SATURATED @ 72', GROUNDWATER OBSERVED @ 96"

TOWN OF WILTON  
WATER & SEWER AUTHORITY  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

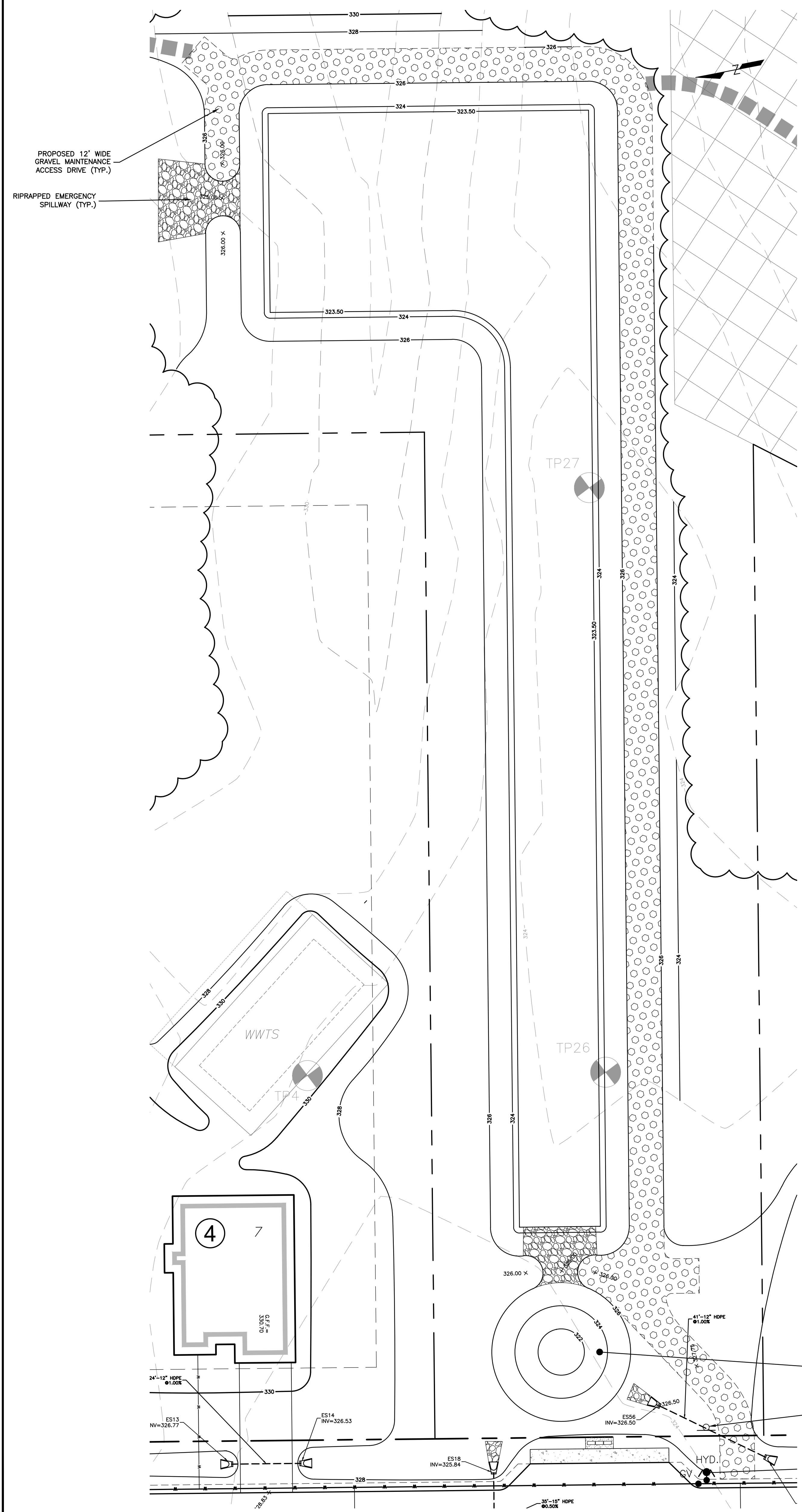
TOWN OF WILTON PLANNING BOARD  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

SARATOGA COUNTY DEPARTMENT OF HEALTH

WASTEWATER DISPOSAL SYSTEM DETAILS

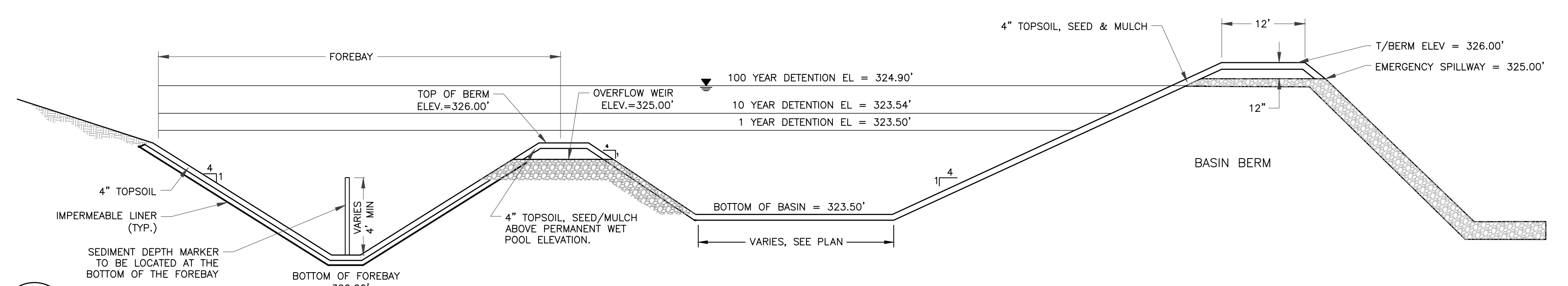
UNAUTHORIZED ADDITION TO THIS LOCATION OF THE INSUPPORT LANSING ENGINEERING, P.C.  
 CIVIL TRANSPORTATION ENVIRONMENTAL LAND DEVELOPMENT  
**BULLARD LANE RESIDENTIAL SUBDIVISION**  
 BULLARD LANE, TOWN OF WILTON, SARATOGA COUNTY, NEW YORK  
 REVISION RECORD/DESCRIPTION  
**PRELIMINARY / NOT FOR CONSTRUCTION**  
**LANSING ENGINEERING**  
 885 WEST VALLEY ROAD  
 SUITE 100  
 WEST VALLEY, NY 12148  
 (518) 888-8888



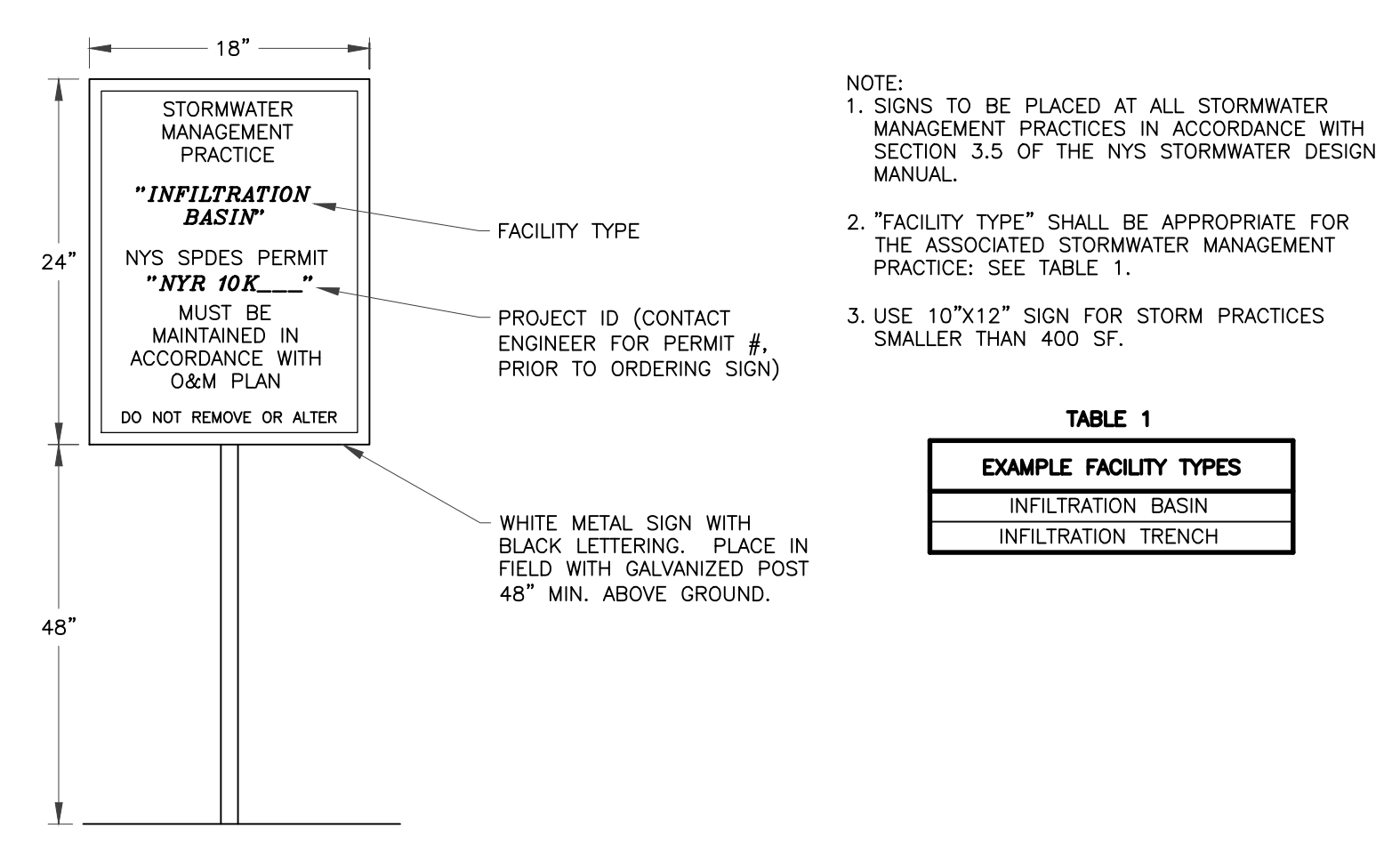


1 STORMWATER INFILTRATION BASIN 1  
SCALE: 1"=20'

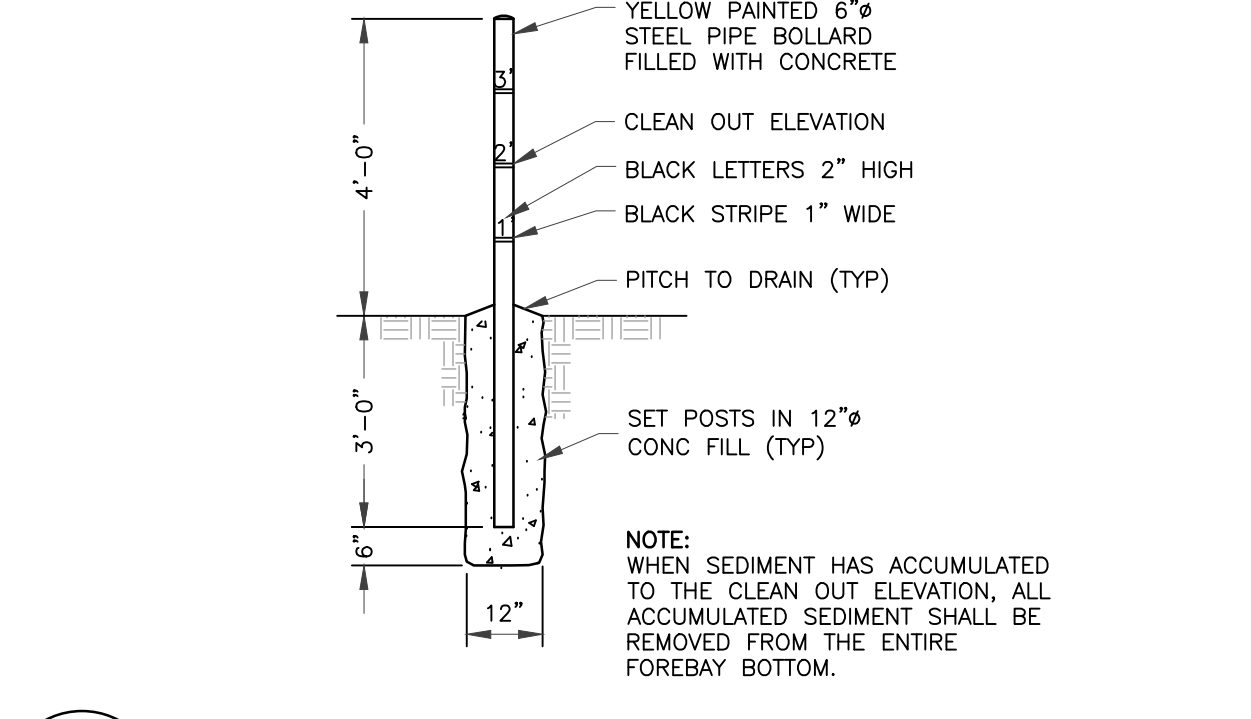
- EMBANKMENT FILL NOTES:**
- EMBANKMENT FILL FOR THE STORMWATER BASIN BERM SHALL CONSIST OF A CLEAN WELL GRADED MIXTURE OF SILT, CLAY, SAND AND GRAVEL WITH NO PARTICLES LARGER THAN (6) INCHES, EXCAVATED ON SITE SOILS SHALL BE SELECTIVELY STOCKPILED FOR USE AS EMBANKMENT FILL IN AREAS DESIGNATED BY THE ENGINEER. SOIL SUITABLE FOR USE AS EMBANKMENT FILL SHALL HAVE AT LEAST 40% BY WEIGHT FINER THAN THE NO. 200 SIEVE AND NO MORE THAN 15% BY WEIGHT COARSER THAN THE NO. 4 SIEVE. THE FILL SHALL BE FREE OF VEGETATION, ORGANIC MATERIAL AND FROZEN SOIL.
  - ALL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING (8) INCHES IN THICKNESS WHEN LOOSE AND BE COMPACTED TO A DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM-1557.
  - ACCEPTABLE POND LINER WITHIN FOREBAY OPTIONS INCLUDE: A) 6"-12" OF CLAY SOIL (MINIMUM 50% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00001 CM/SEC), AND B) A 30 MIL POLYLINER.
  - THE STABILIZED ACCESS ROAD SHALL CONSIST OF (12) INCHES OF COMPACTED NYS DOT ITEM NO. 304.12.



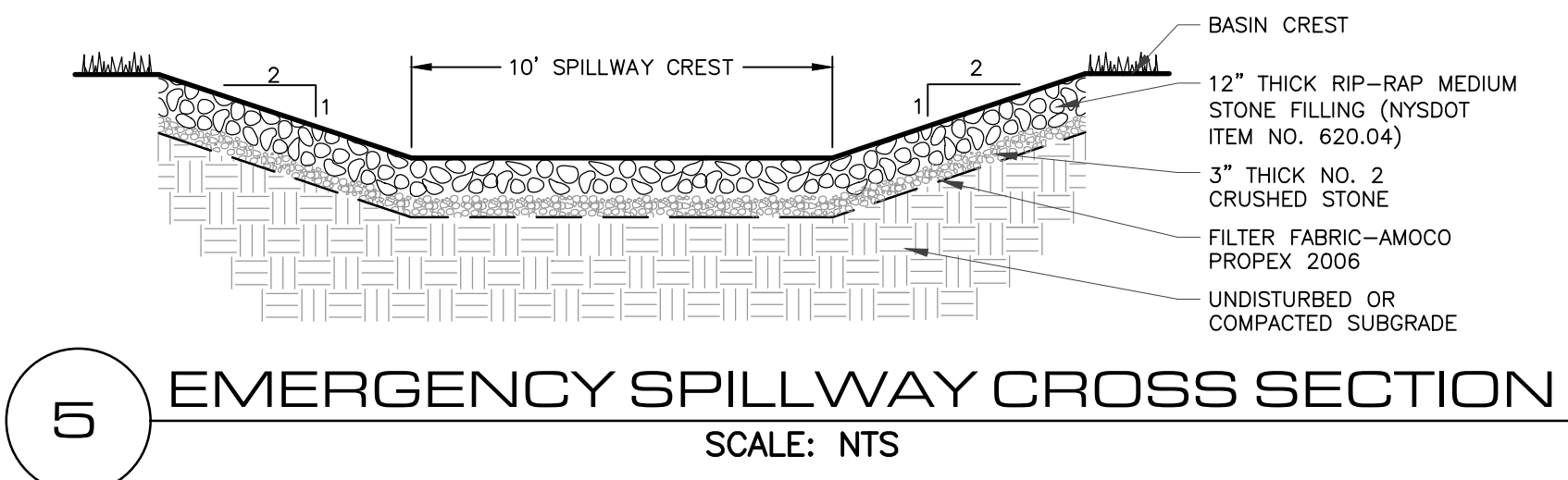
2 STORMWATER INFILTRATION BASIN 1  
SCALE: NTS



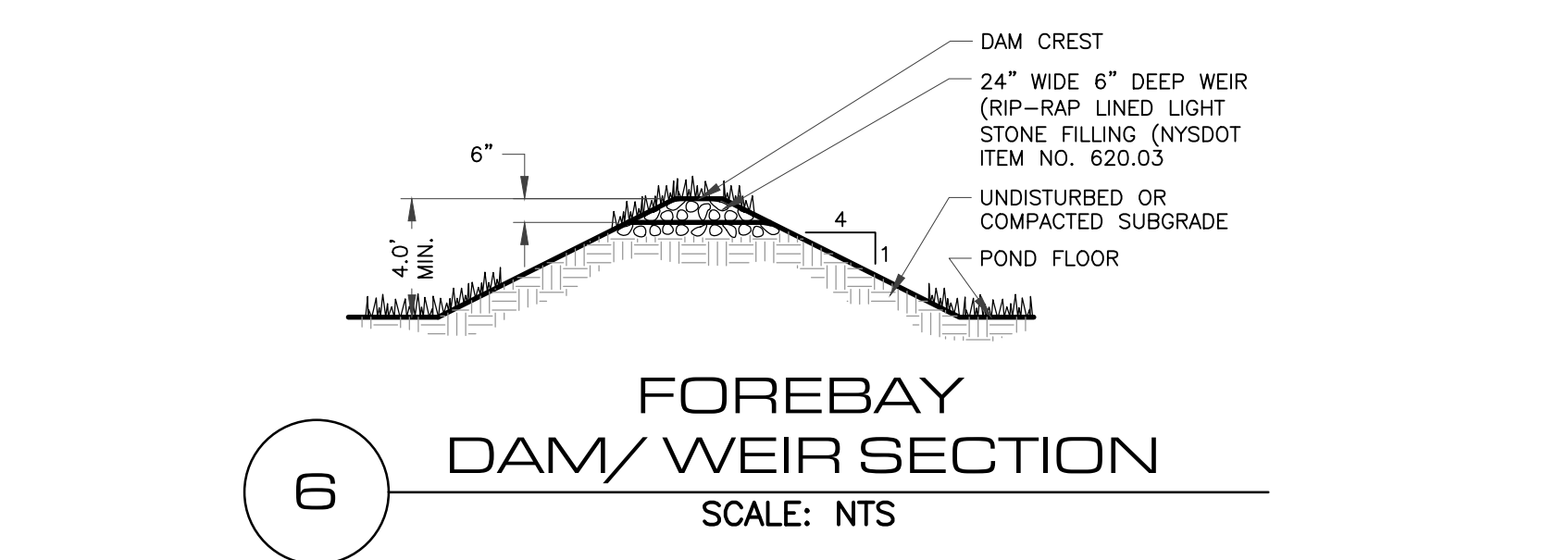
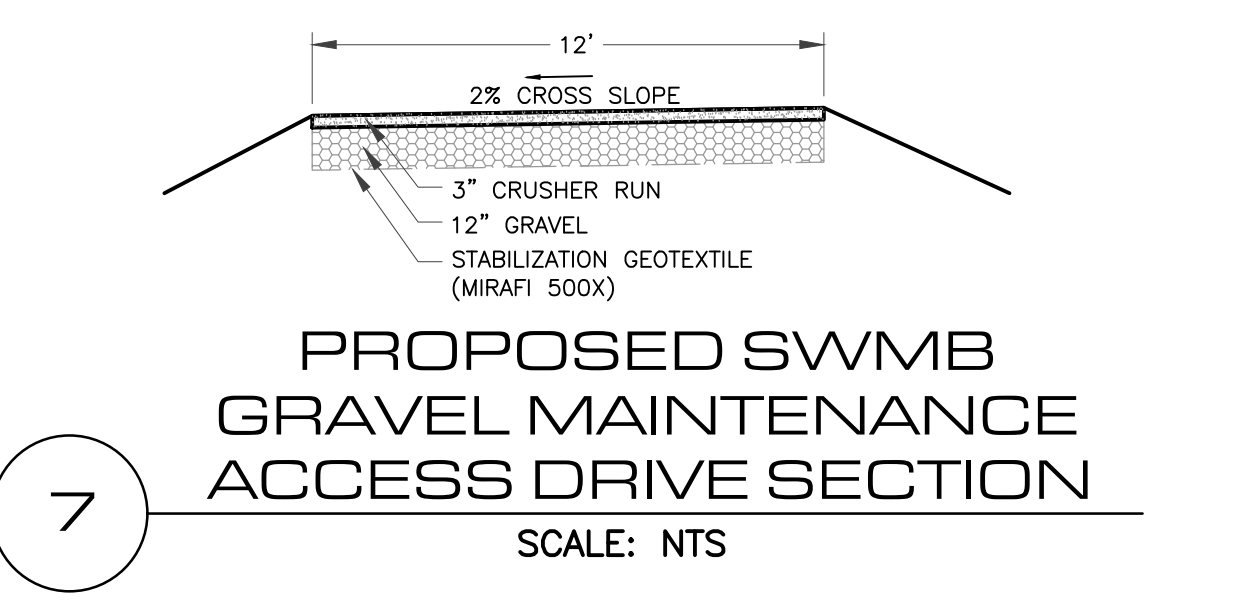
4 STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN  
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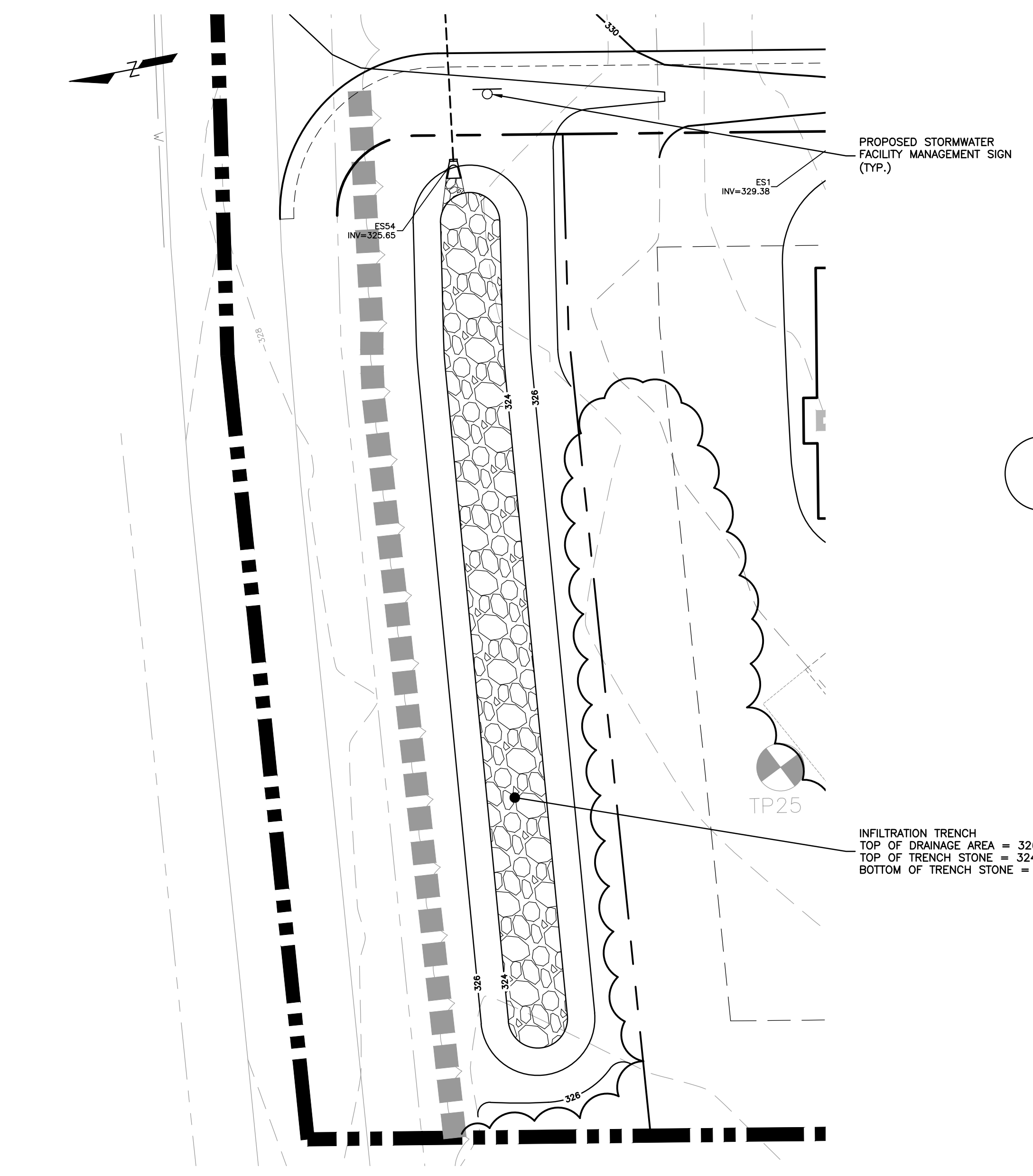
3 SEDIMENT DEPTH MARKER  
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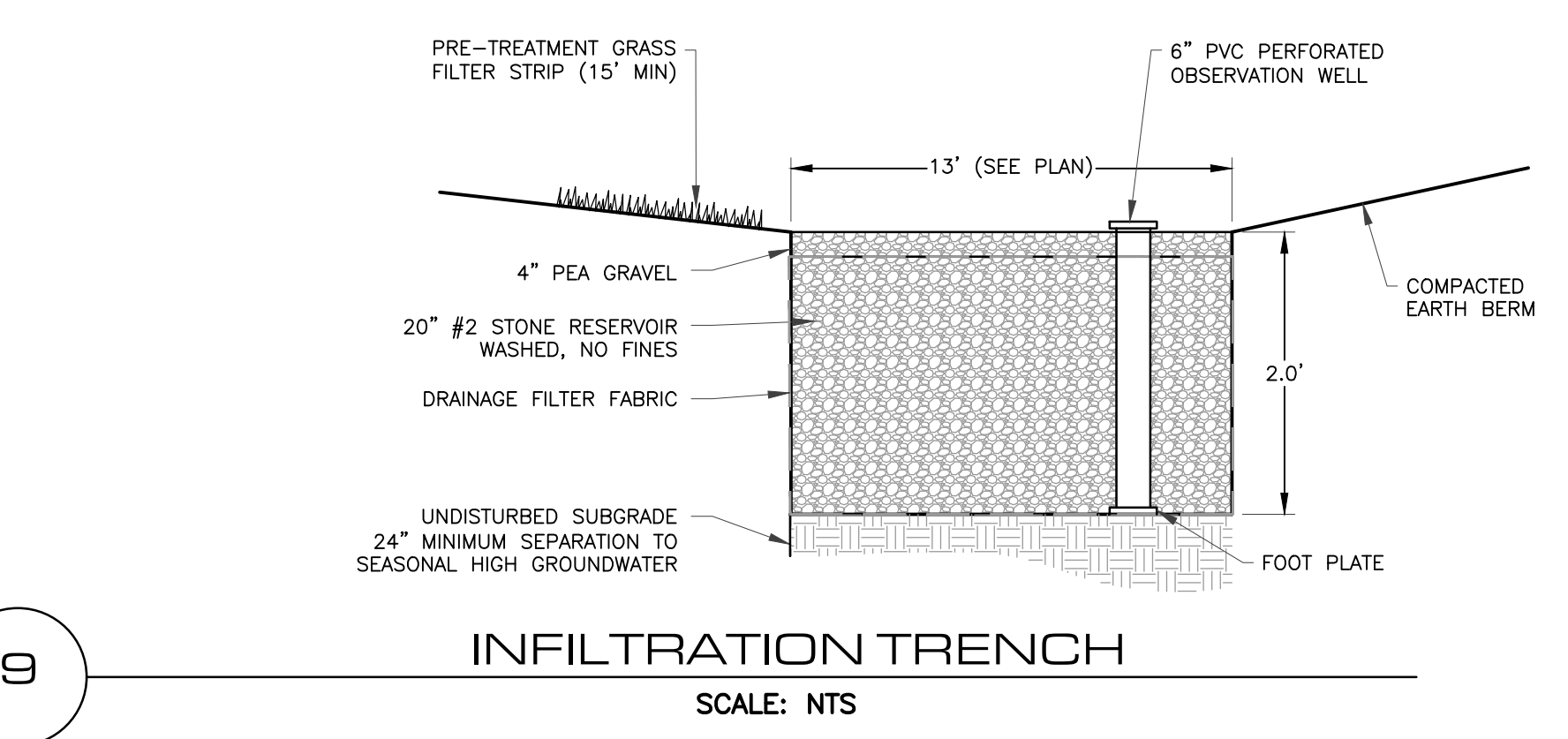
5 EMERGENCY SPILLWAY CROSS SECTION  
SCALE: NTS



6 FOREBAY DAM/WEIR SECTION  
SCALE: NTS



8 STORMWATER INFILTRATION TRENCH 1  
SCALE: 1"=20'



9 INFILTRATION TRENCH  
SCALE: NTS

TOWN OF WILTON WATER & SEWER AUTHORITY  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

TOWN OF WILTON PLANNING BOARD  
PLEASE REFER TO FIRST SHEET FOR APPROVAL DATE AND SIGNATURE

SARATOGA COUNTY DEPARTMENT OF HEALTH

STORMWATER MANAGEMENT DETAILS

UNAUTHORIZED OR ADDITIONAL TO THIS LOCATION OF THE NYS PROFESSIONAL ENGINEERING, P.C.

REVISIONS RECORD/DESCRIPTION

DATE

PRELIMINARY / NOT FOR CONSTRUCTION

BULLARD LANE RESIDENTIAL SUBDIVISION  
BULLARD LANE, TOWN OF WILTON, SARATOGA COUNTY, NEW YORK

LANSING ENGINEERING  
SARATOGA COUNTY, NEW YORK  
REG. NO. 1061.01  
E-1518 BBS/BSK

CIVIL TRANSPORTATION/ENVIRONMENTAL/LAND SURVEYING