GENERAL NOTES THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER OF ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES ALL NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, 3. ALL WORK SHALL CONFORM TO TOWN OF WESTWOOD GENERAL CONSTRUCTION THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO A LEGAL DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED. 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES OR MUNICIPAL DEPARTMENTS SUPPLEMENTED BY FIELD IDENTIFICATION WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL CONTRACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 1-800-322-4844. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING. 8. NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6" OF THE WATER IN THE TRENCH, NOR ARE THEY TO BE USED FOR BACKFILL

- FOR THE FIRST 12" ABOVE THE PIPES.
- 9. PAVEMENT AREA SHALL BE PAVED TO A THICKNESS AS SHOWN ON THE PLANS MEASURED AFTER COMPACTION, WITH A BINDER COURSE AND TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
- 10. BASE MATERIAL SHALL BE CLEAN BANK RUN GRAVEL, CONFORMING TO M.D.P.W. M1.03.1, WITH NO STONES LARGER THAN THREE (3) INCHES IN DIAMETER AND SHALL BE PLACED AND ROLLED WITH AT LEAST A TEN TON ROLLER. THE SURFACES SHALL BE WET DURING ROLLING TO BIND THE MATERIAL. ALL STONES OF 4" DIAMETER OR LARGER SHALL BE REMOVED FROM THE SUB-BASE PRIOR TO
- 11. ALL EXISTING PAVING TO BE DISTURBED SHALL BE CUT ALONG A STRAIGHT LINE THROUGH ITS ENTIRE THICKNESS. BUTT THE NEW PAVING INTO THE EXISTING PAVEMENT TO REMAIN.
- 12. ANY PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A PAVEMENT SECTION CONSISTING OF 1" WEAR COURSE OVERLYING A 1 1/2" BINDER COURSE OVERLYING A 8" COMPACTED GRAVEL BASE COURSE.
- 13. THE CONTRACTOR SHALL APPLY FOR A STREET OPENING AND UTILITY CONNECTION PERMITS AND SIDEWALK CROSSING PERMIT WITH THE TOWN OF WESTWOOD.
- 14. CONTRACTOR TO ENSURE THAT ALL SURFACE WATER IS DIVERTED AWAY FROM BUILDING FOUNDATION DURING FINAL GRADING

- 1. INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF A FIELD SURVEY PERFORMED BY SPRUHAN ENGINEERING, P.C. AS OF 4/12/2022.
- 2. DEED REFERENCE: BOOK 6289, PAGE 192 PLAN REFERENCE 1: PLAN BOOK 214, PLAN 377
- NORFOLK REGISTRY OF DEEDS 3. THIS PLAN IS NOT INTENDED TO BE RECORDED.
- 4. I CERTIFY THAT THE DWELLING SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X, ON FLOOD HAZARD BOUNDARY MAP NUMBER 25017C0181E, IN COMMUNITY NUMBER: 255225, DATED 7/17/2012.
- 5. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT USES OF THE LAND; HOWEVER THIS NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.
- 6. FIRST FLOOR ELEVATIONS ARE TAKEN AT THRESHOLD.
- 7. NO RESPONSIBILITY IS TAKEN FOR ZONING TABLE AS SPRUHAN ENGINEERING, P.C. ARE NOT ZONING EXPERTS. TABLE IS TAKEN FROM TABLE PROVIDED BY LOCAL ZONING ORDINANCE. CLIENT AND/OR ARCHITECT TO VERIFY THE ACCURACY OF ZONING
- 8. THE ELEVATIONS SHOWN ARE ON A CITY OF WESTWOOD DATUM.

ZONING LEGEND					
ZONING DISTRICT: SINGLE-RESIDENCE C					
	REQUIRED	PROPOSED			
MIN. LOT AREA	40,000 S.F	40,454 S.F			
MIN. LOT FRONTAGE	125'	_			
MIN. YARD FRONT	40'	87.0'			
SIDE	20'	27.5'			
REAR	30'	120.4'			
MAX. LOT COV.	25%	9.6%			
MAX. IMPERVIOUS	50%	18.9%			
MAX. BUILDING HEIGHT	32.5'	*			

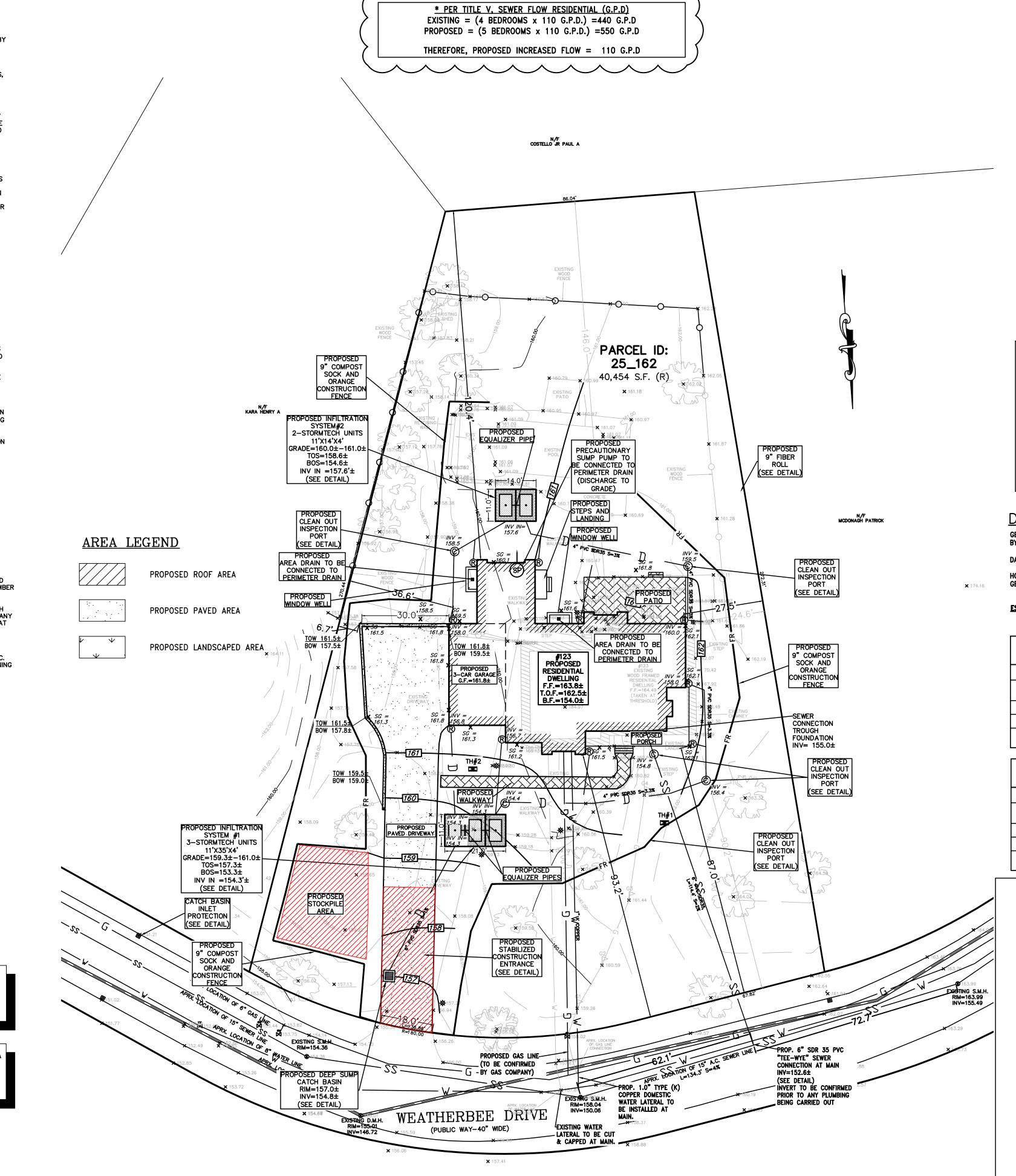
*REFER TO ARCHITECTURAL PLANS FOR THE BUILDING HEIGHT CALCULATIONS & PROFILE

TOTAL LAND DISTURBANCE = 19,499.7 S.F. \pm | SINCE 19,499.7 S.F. < 21,780 S.F. LAND DISTURBANCE PERMIT IS NOT REQUIRED.

SURVEYOR TO STAKE LAND DISTURBANCE AREA PRIOR TO ANY WORK ON SITE BEING CARRIED

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.



CIVIL PLAN

5/31/2022

80 JEWETT ST, (SUITE 2)

NEWTON, MA 02458

Tel: 617-816-0722

Email:espruhan@gmail.com

WESTWOOD,

MASSACHUSETTS

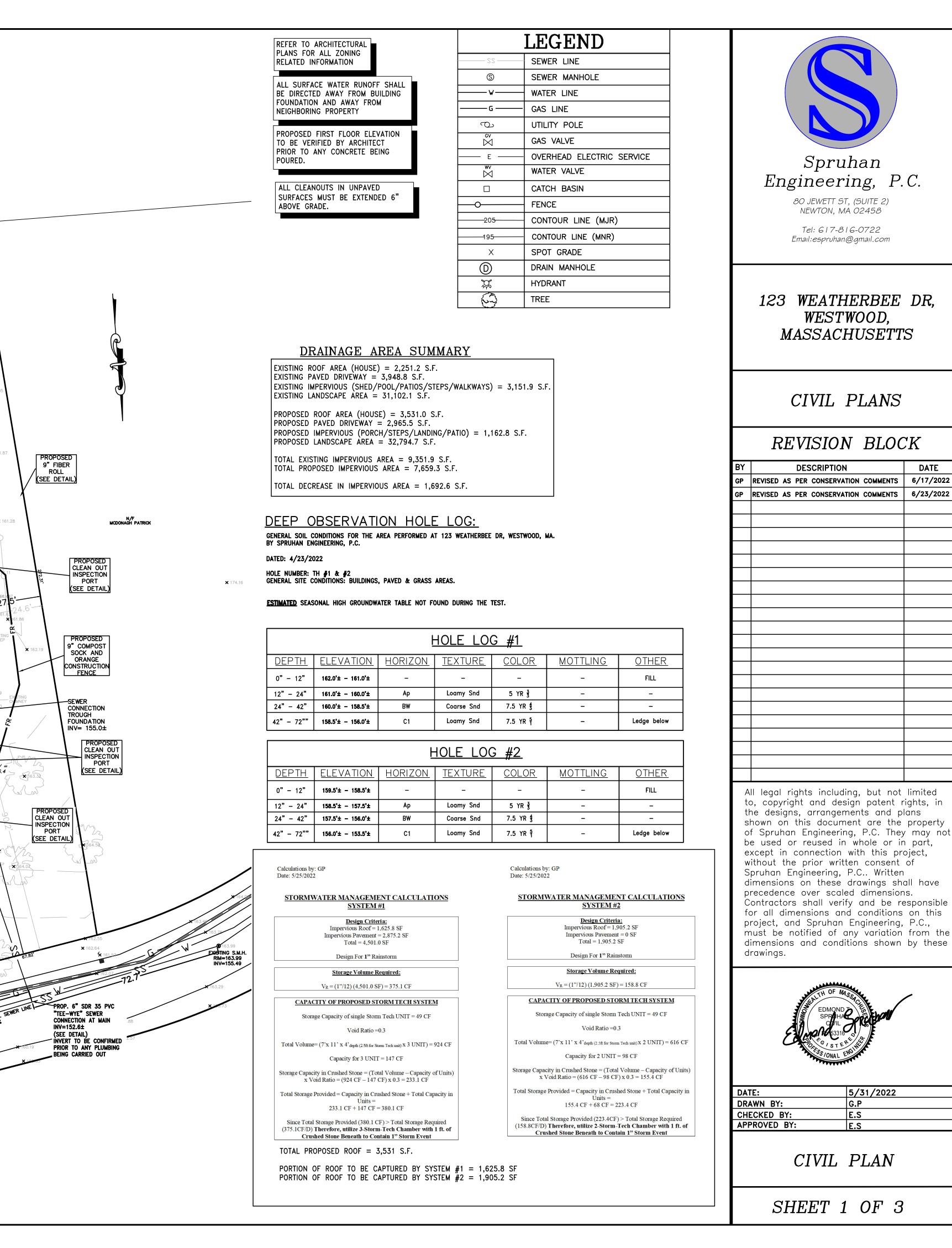
CIVIL PLANS

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6/17/2022

DESCRIPTION

SHEET 1 OF 3



ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

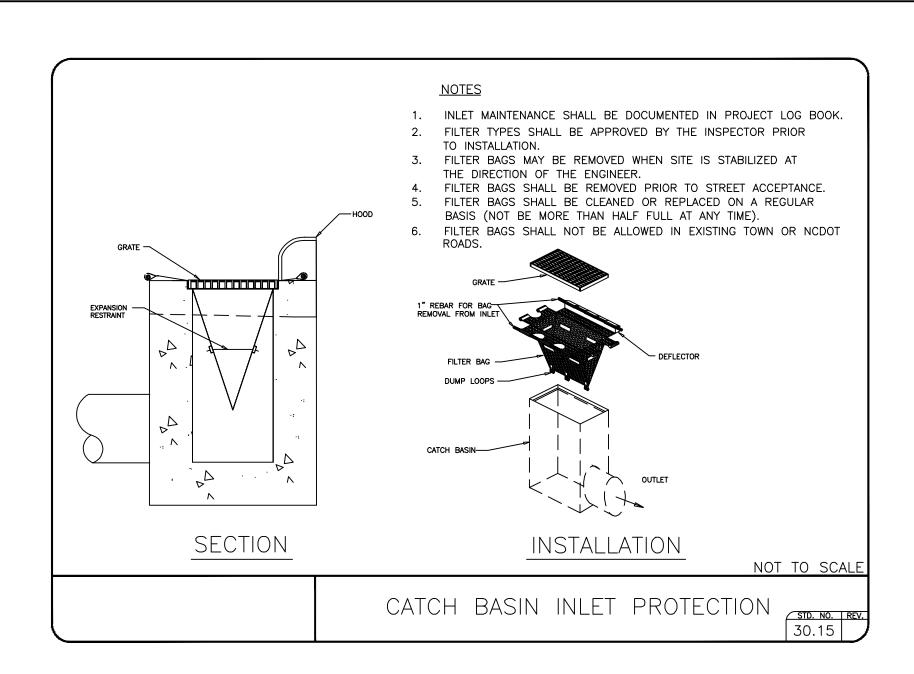
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145' A-1, A-2-4, A-3 OR AASHTO M43' 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. 2 3

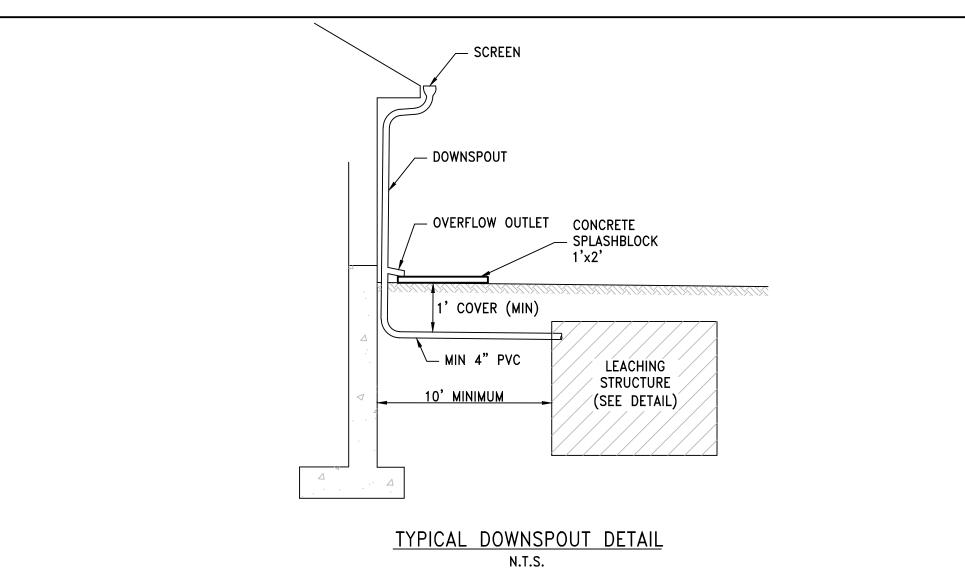
PLEASE NOTE:

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

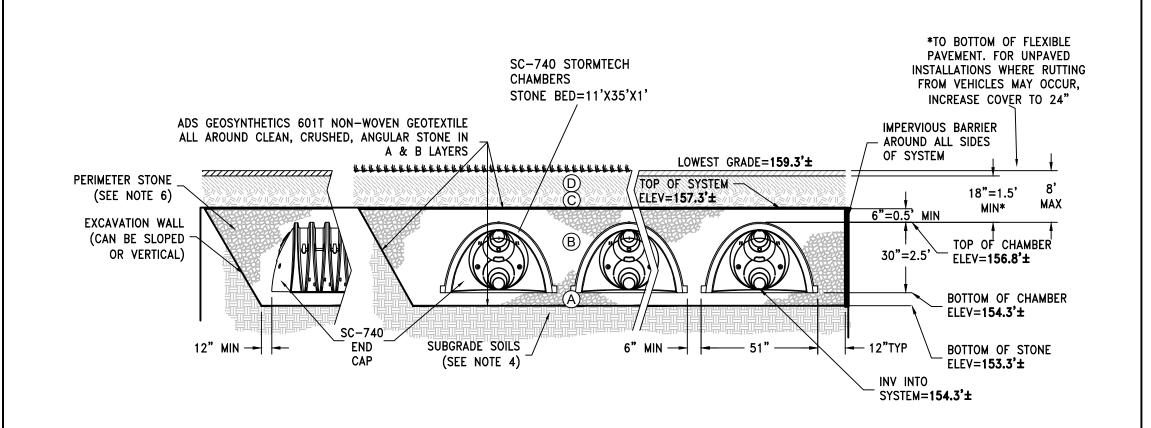
NOTE

- 1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- 4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.





INFILTRATION SYSTEM#1



SEE NOTES BELOW — AIR-TIGHT THREADED MPT LANDSCAPE PAVED AREA AREA HAND TAMPERED BACKFILL TO 90% RELATIVE COMPACTION —CAST-IN-PLACE INSTALL VERTICALLY & CONCRETE PRIOR TO CUT TO LENGTH/SDR 35 SUBGRADE ASTM D3034 - WYE BRANCH FOR INTERMEDIATE C.O. - PLACE EXPANDABLE 1/8 BEND AT PLASTIC PLUG FOR TERMINUS ONLY STUB-OUTS. EXISTING LATERAL FLEXIBLE TRANSITION COUPLING (MIN 3.5' FROM

NOTES:

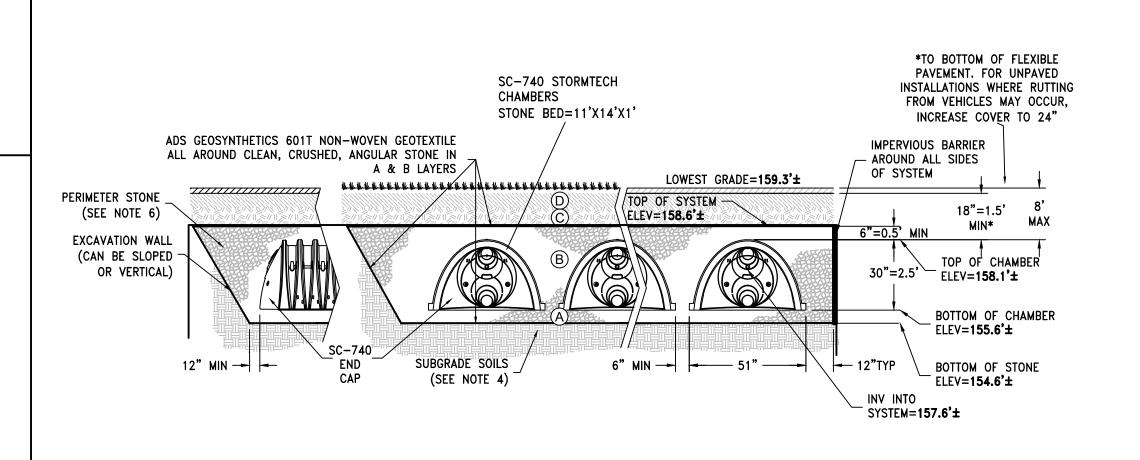
1. RECTANGULAR OR CIRCULAR BOXES ARE PERMITTED.

PIPE AND BOX SHALL BE INSTALLED AS SHOWN.

- 2. CONCRETE/FIBERLYTE LIDS ARE ACCEPTABLE IN NON-VEHICULAR AREAS. H-20 CAST IRON TRAFFIC LIDS AND BOXES IN VEHICULAR AREAS.
- 3. ALL CLEANOUT LIDS SHALL BE MARKED WITH AN "S" OR THE WORD "SEWER" FOR
- SANITARY SEWER CLEANOUTS
- CLEANOUT PIPE SHALL BE THE SAME DIAMETER AS THE CONNECTED SITE PIPE.
 TERMINATE C.O. AT CLOSEST JOINT TO SURFACE WITH TEMPORARY PLUG. AFTER ALL BACKFILL IS COMPLETE AND SUB-GRADE MADE IN AREAS TO BE PAVED, THE FINAL RISER

CLEANOUT TO GRADE

INFILTRATION SYSTEM#2



CURB STONE -

SIDEWALK

SIDEWALK UPRIGHT

EXTENSION TUBE

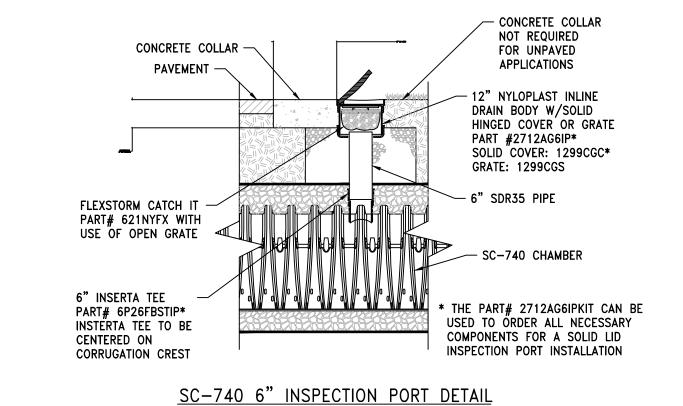
TYPE "K" COPPER SERVICE PIPE

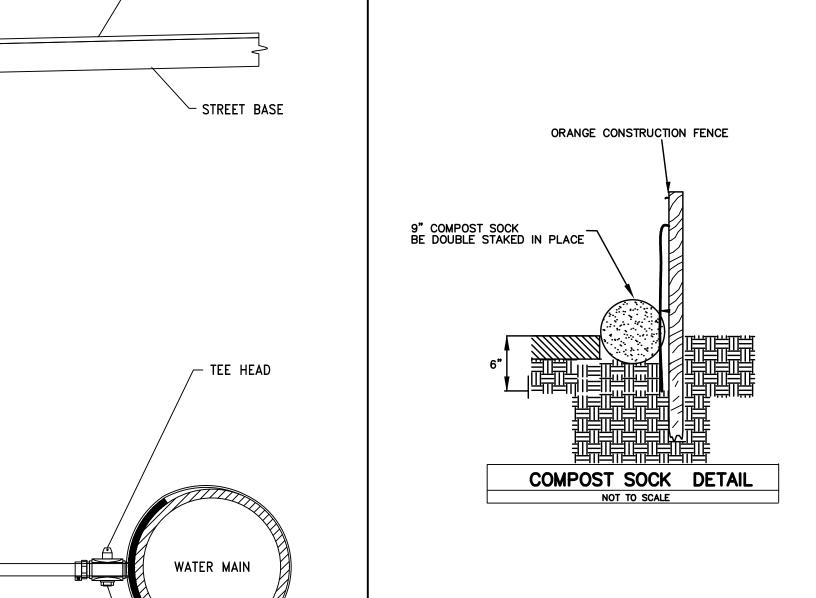
SIDEWALK COCK

NEW WATER CONNECTION DETAIL SCALE: NOT TO SCALE

STREET SURFACE

_CORPORATION







NEWTON, MA 02458

Tel: 617-816-0722

Email:espruhan@gmail.com

123 WEATHERBEE DR, WESTWOOD, MASSACHUSETTS

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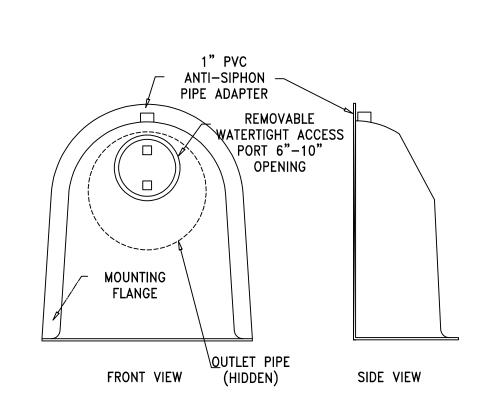
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APPROVED BY:	E.S

DETAILS

SHEET 2 OF 3



CONFIGURATION DETAIL

SNOUT OIL-WATER-DEBRIS SEPARATOR

- 1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS INC. 53 MT. ARCHER RD. LYME, CT 06371 (860) 434-0277, (860)434-3195 FAX TOLL FREE: (800) 504-8008 OR (888)354-7585 WEB SITE: www.bestmp.com OR PRE-APPROVED EQUAL
- 2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
- 3. ALL HOODS SHALL BE EQUIPED WITH A WATERTIGHT ACCESS PORT. A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)
- 4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANFACTURER'S RECOMMENDATION.
- 5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
- 6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
- 7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
- 8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8' STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER (SEE INSTALLATION DETAIL)
- 9. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION SHALL INCLUDE: A. INSTALLATION INSTRUCTIONS B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
- E. ANCHOR SHIELDS

D. 3/8" STAINLESS STEEL BOLTS

US PATENT # 6126817

TYPICAL INSTALLATION CATCH BASIN ELEV ANTI-SIPHON DEVICE SNOUT OIL AND DEBRIS OHOOARID DEBRIS OUTLET MORTAR JOINTS (NON-SHRINK) 48"MIN. SUM SOLIDS SETTLE DOWN ON BOTTOM INSTALLATION DETAIL FOAM BASKET W/ PSA BACKING (TRIM TO LENGHT) MOUNTIN FLANGE ANCHOR W/BOLT (SEE DETAIL A) **INSTALLATION NOTE:** POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF $\frac{1}{2}$ OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. GASKET COMPRESSED 12" I.D. IS 6" BETWEEN HOOD AND DETAIL A STRUCTURE (SEE DETAIL B) DRILLED ANCHOR STAINLESS

EXPANSION CONE

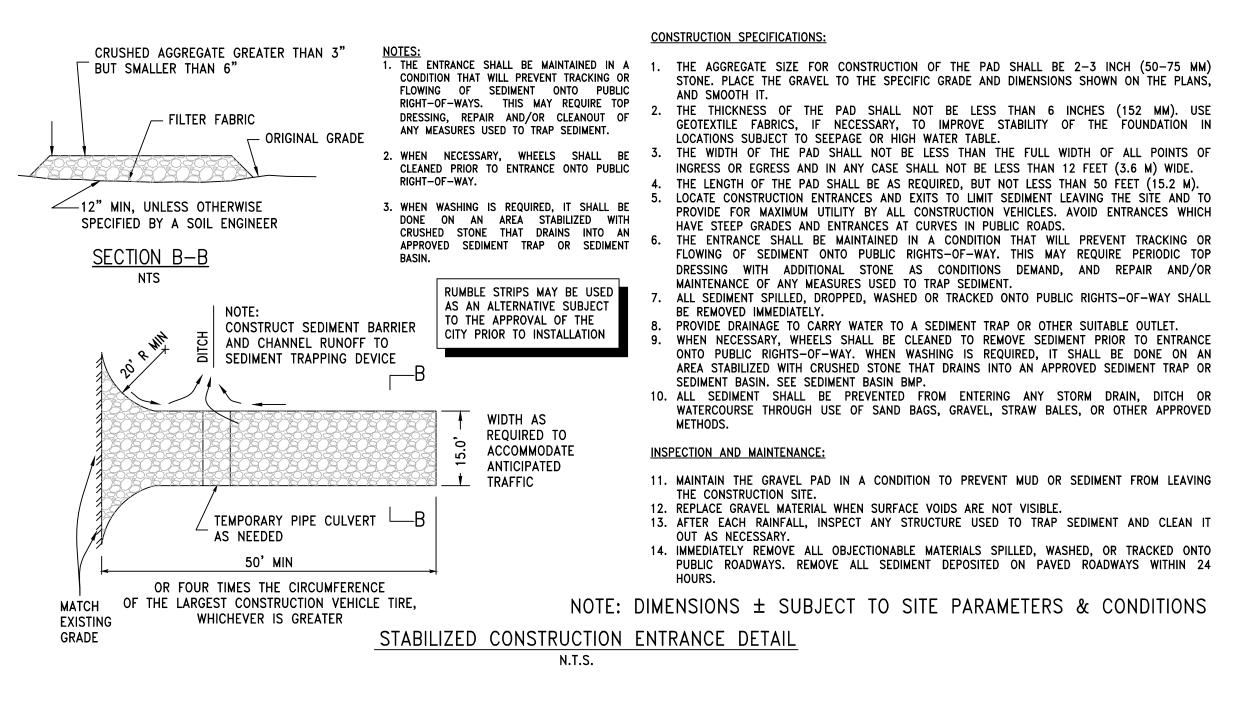
(NARROW END

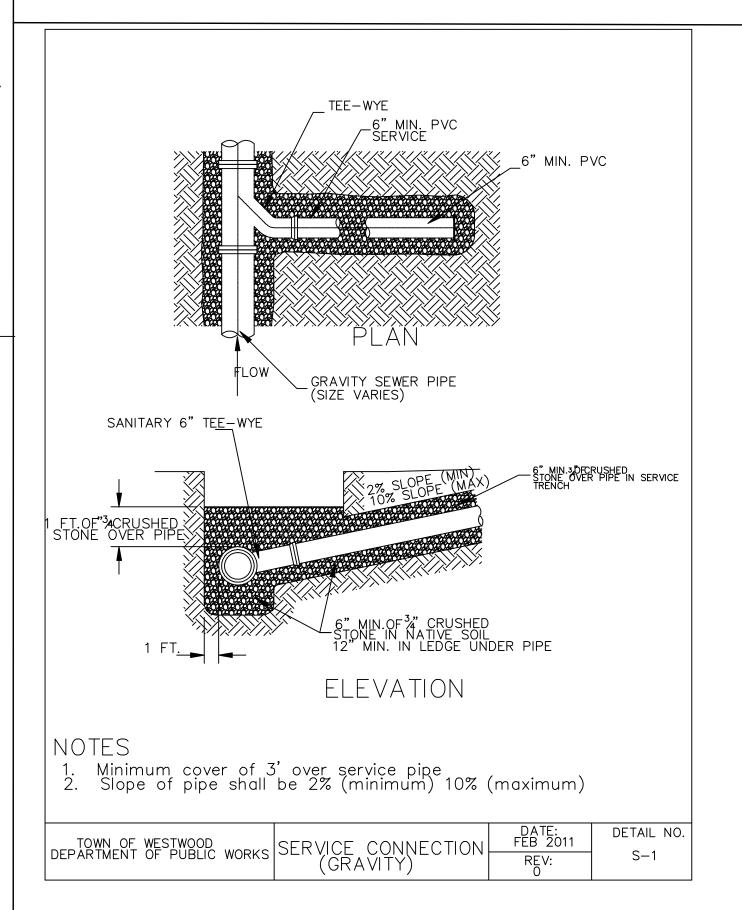
OUT)

OIL-DEBRIS HOOD SPECIFICATION AND INSTALLATION

(TYPICAL)

DEEP SUMP CATCH BASIN WITH DEBRIS COLLECTOR DETAIL







Spruhan Engineering, P.C.

NEWTON, MA 02458 Tel: 617-816-0722 Email:espruhan@gmail.com

80 JEWETT ST, (SUITE 2)

123 WEATHERBEE DR, WESTWOOD, **MASSACHUSETTS**

CIVIL PLANS

REVISION BLOCK

BY	DESCRIPTION	DATE
GP	REVISED AS PER CONSERVATION COMMENTS	6/17/2022
Α	All leaal riahts includina, but not	limited

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DETAILS

SHEET 3 OF 3

		LEGEND
		SEWER LINE
	S	SEWER MANHOLE
	w	WATER LINE
	G	GAS LINE
	₽	UTILITY POLE
	gv ⊠	GAS VALVE
	— Е —	OVERHEAD ELECTRIC SERVICE
N/F COSTELLO JR PAUL A	wv ×	WATER VALVE
		CATCH BASIN
	<u> </u>	FENCE
86.04	205	CONTOUR LINE (MJR)
	195	CONTOUR LINE (MNR)
	×	SPOT GRADE
	D	DRAIN MANHOLE
CS FXISTING	Ä	HYDRANT
EXISTING WOOD FENCE		TREE
EXISTING WOOD PARCEL ID: 25_162 25_162 25_162 200.03 40,454 S.F. (R) 2520 40,454 S.F. (R)		

—SEWER
CONNECTION
TROUGH
FOUNDATION
INV= 155.0±

PROPOSED
AREA DRAIN TO BE
CONNIECTED TO
PERIMETER DRAIN
PROPOSED
RESIDENTIAL
DWELLING
F.F.=163.8±
TOF=167.5±

AREA = 19,499.7 S.F.

PROPOSED EQUALIZER PIPES

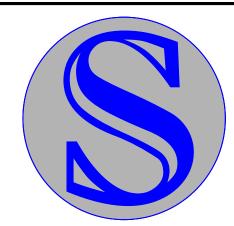
EXISTING D.M.H. WEATHERBEE DRIVE
RIM=135.01
INV=146.72
V155.59
(PUBLIC WAY-40" WIDE)

N/F KARA HENRY A

> PROPOSED STOCKPILE AREA

TOTAL LAND DISTURBANCE = 19,499.7 S.F. ± SINCE 19,499.7 S.F. < 21,780 S.F. LAND DISTURBANCE PERMIT IS NOT REQUIRED.

SURVEYOR TO STAKE LAND DISTURBANCE AREA PRIOR TO ANY WORK ON SITE BEING CARRIED OUT.



Spruhan Engineering, P.C.

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123 WEATHERBEE DR, WESTWOOD, MASSACHUSETTS

CIVIL PLANS

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LAND DISTURBANCE PLAN

SHEET 1 OF 1

