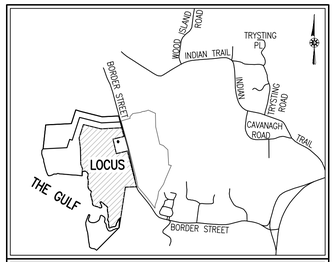


LOCATION MAP SCALE: 1"=1200'±

L.C. CASE No. 19784

KEY

- LIMIT OF WORK
- LIMIT OF EROSION CONTROL
- SALTMARSH & TIDELAND CONSERVATION DISTRICT
- FLOODPLAIN & WATERSHED PROTECTION DISTRICT (EL 9.2/10 MSL)
- 100YR FEMA FLOOD PLAIN (AE EL 12)
- 100' WETLAND BUFFER — 100 FT WETLAND BUFFER
- 50' WETLAND BUFFER — 50 FT WETLAND BUFFER
- 100' INNER RIPARIAN — 100' RIVER FRONT INNER BUFFER
- 200' OUTER RIPARIAN — 200' RIVER FRONT OUTER BUFFER
- WFA5 — UPLAND / WETLAND — WFA6 — WETLAND LINE (SALT MARSH)
- MAHW5 — MAHW6 — MEAN ANNUAL HIGH WATER

ZONING DATA

DISTRICT: RESIDENCE R-2

MINIMUM REQUIREMENTS:		PROPOSED
LOT AREA	20,000 S.F.	17± AC
LOT FRONTAGE	100 FT	629± FT
LOT WIDTH	125 FT	>500 FT
FRONT YARD	30 FT	398 FT
SIDE YARD	15 FT	278 FT
REAR YARD	30 FT	103 FT (TO MHW)

FLOOD HAZARD REFERENCE:
ZONE AE (EL 12) AND ZONE X
BY GRAPHIC PLOTTING ONLY
FIRM COMMUNITY MAP No. 25023C0106K
DATED: NOVEMBER 4, 2016

RECORD OWNER:
PARCEL ID 006-002-009-0
LION'S HEAD TRUST
143 BORDER STREET
SCITUATE, MA 02066
LAND COURT CERT. NO. 93748 (11799)

PLAN REFERENCE:
1. LAND COURT PLAN #19784D
2. LAND COURT PLAN #19784G
3. LAND COURT PLAN #19784I

REVISIONS

2	5/12/21	PEER REVIEW
1	4/15/21	FRONT ENTRANCE

COMMONWEALTH OF MASSACHUSETTS
DEBORAH W. KELLER
CIVIL
No. 45874
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: JG

DESIGNED BY: JG

CHECKED BY: DK

Merrill
Engineers and Land Surveyors
427 COLUMBIA ROAD, HANOVER, MA 02339 / T: (781) 826-9200
26 UNION STREET, PLYMOUTH MA 02360 / T: (508) 746-6060
WWW.MERRILLINC.COM

SITE PLAN
BORDER STREET
SCITUATE, MASSACHUSETTS

PREPARED FOR: CARL CHRISTENSON
9 STONE AVENUE
SCITUATE, MA 02066

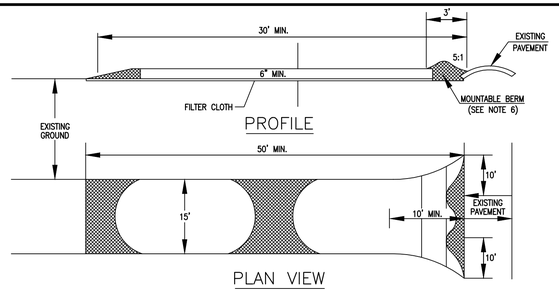
MARCH 10, 2021

SCALE: 1"=30'

JOB No. 20-447

LATEST REVISION: MAY 12, 2021

SHEET 1 OF 3

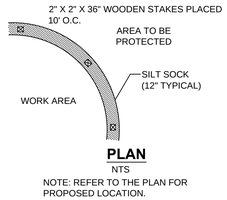


STABILIZED CONSTRUCTION ENTRANCE

(NOT TO SCALE)

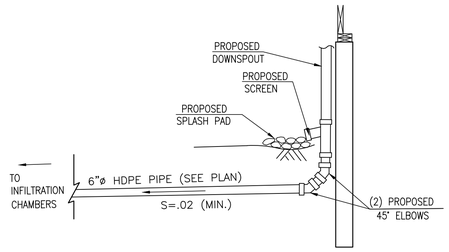
SPECIFICATIONS – FOR CONSTRUCTION ENTRANCE

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FT.(EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAYS MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



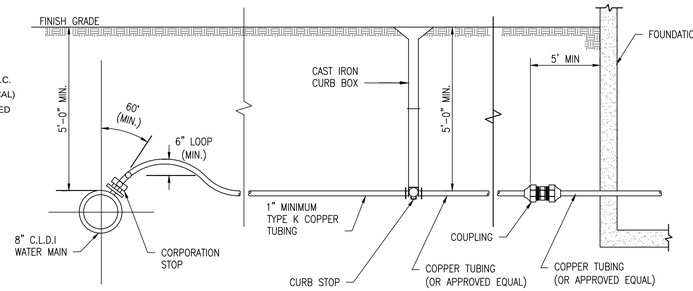
SILT SOCK DETAIL

(NOT TO SCALE)



TYPICAL DOWNSPOUT DETAIL

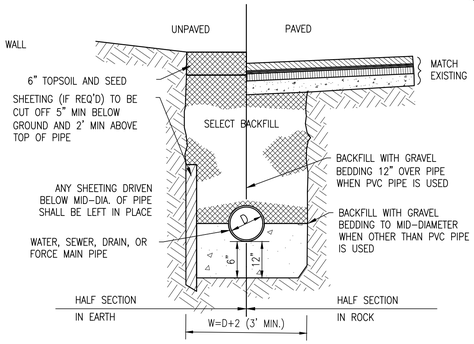
(NOT TO SCALE)



NOTE:
VERIFY MATERIALS AND TAPPING AND INSTALLATION REQUIREMENTS WITH THE TOWN OF MILTON WATER DEPARTMENT

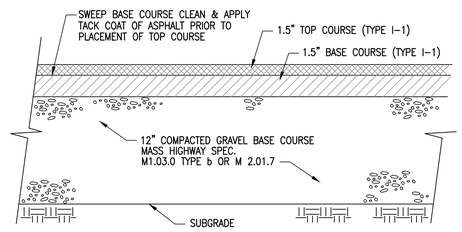
WATER SERVICE DETAIL

(NOT TO SCALE)



TYPICAL UTILITY TRENCH

(NOT TO SCALE)

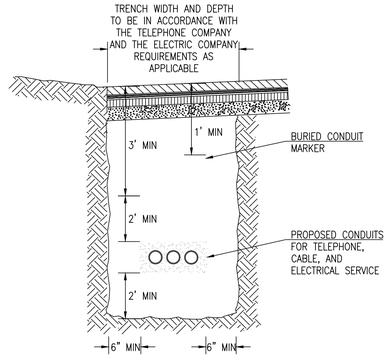


BITUMINOUS CONCRETE PAVEMENT

(NOT TO SCALE)

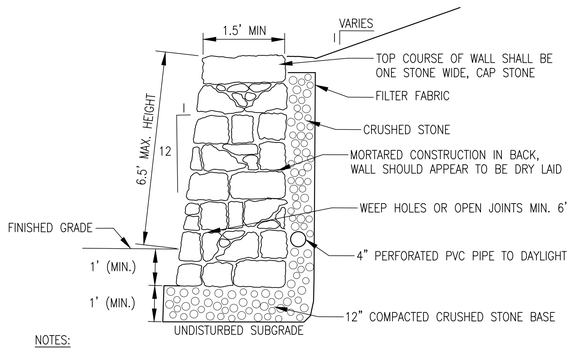
NOTE:

1. ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH CLEAN GRAVEL BASE (95% COMPACTION)
2. ALL DRIVEWAY AND PARKING AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GEOTECHNICAL ENGINEERS SPECIFICATIONS.



TYPICAL ELECTRIC/TELEPHONE/CABLE CONDUIT (US–UTILITY SERVICE) DETAIL

(NOT TO SCALE)

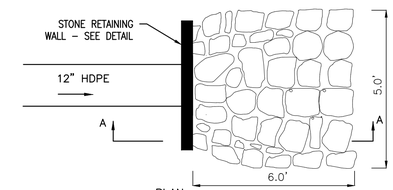


NOTES:

1. STONE WALL TO BE FOUNDED ON UNDISTURBED MATERIAL AND CONSISTANT WITH GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
2. PITCH BASE OF WALL DOWNWARD 1 VERT. TO 12 HOR. INTO SLOPE.
3. DIMENSIONS OF WALL AND REINFORCING TO BE DESIGNED BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

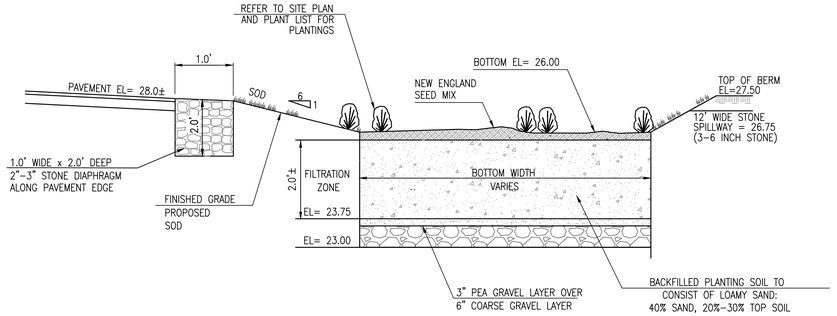
MORTARED STONE LANDSCAPE WALL

(NOT TO SCALE)



RIPRAP SEDIMENT PAD

(NOT TO SCALE)



PLANT LIST — 18-Mar-21

135 BORDER STREET, SCITUATE MA

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SHRUBS					
IV	6	Ilex verticillata	Winterberry	#3	container
VC	9	Vacinnium corymbosum	Highbush Blueberry	#3	container
SEED MIX					
		New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites SPECIES or approvel equal:			
		Riverbank Wild Rye (Elymus riparius), Creeping Red Fescue (Festuca rubra), Little Bluestem (Schizachyrium scoparium), Big Bluestem (Andropogon gerardii), Switch Grass (Panicum virgatum), Upland Bentgrass (Agrostis perennans), Nodding Bur Marigold (Bidens cernua), Hollow-Stem Joe Pye Weed (Eupatorium fistulosum/Eutrochium fistulosum), New England Aster (Aster novae-angliae), Boneset (Eupatorium perfoliatum), Blue Vervain (Verbena hastata), Soft Rush (Juncus effusus), Wool Grass (Scirpus cyperinus).		
		APPLICATION RATE: 35 lbs/acre | 1250 sq ft/lb			

PROVIDED BY SEAN PAPICH LANDSCAPE ARCHITECTURE

OPERATIONS AND MAINTENANCE

PRE CONSTRUCTION:

CONTRACTOR TO PREVENT SEDIMENT FROM CLOGGING ANY EXPOSED SUBGRADE TO MINIMIZE COMP ACTION BY CONSTRUCTION VEHICLES IN AREA OF STORMWATER MANAGEMENT. NO DISCHARGE FROM DEWATERING ACTIVITIES SHALL ENTER STORMWATER MANAGEMENT AREAS. NO STORMWATER DISCHARGE SHALL BE DIRECTED ONTO INFILTRATIVE SURFACES UNTIL CONTRIBUTING AREAS ARE STABILIZED.

POST CONSTRUCTION:

UNTIL VEGETATION HAS BEEN ESTABLISHED, MONTHLY INSPECTIONS ARE RECOMMENDED. ONCE VEGETATION HAS BEEN ESTABLISHED, THE RAIN GARDEN BASE SHALL BE INSPECTED ON AN ANNUAL BASIS. MAINTENANCE SHOULD CONSIST NORMALLY OF REMOVAL OF DEBRIS (PRIMARILY AT THE INFLOW POINT) AND ACCUMULATED SEDIMENT. DURING THE GROWTH SEASON THE GRASS SIDE SLOPES SHALL BE MOWED AT LEAST ONCE A MONTH. OTHER MAINTENANCE TASKS INCLUDE REPLACEMENT OF DEAD VEGETATION, EROSION REPAIR AND pH REGULATION (USUALLY ADDING LIME).

RAIN GARDEN MAINTENANCE SCHEDULE		
ACTIVITY	TIME OF YEAR	FREQUENCY
INSPECTION & REMOVE TRASH	YEAR ROUND	MONTHY
MULCH	SPRING	ANNUALLY
REMOVE DEAD VEGETATION	FALL OR SPRING	ANNUALLY
REPLACE DEAD VEGETATION	SPRING	ANNUALLY
PRUNE	SPRING OR FALL	ANNUALLY
REPLACE ENTIRE MEDIA & ALL VEGETATION	LATE SPRING/EARLY SUMMER	ANNUALLY

RAIN GARDEN DETAIL

(NOT TO SCALE)

REVISIONS

1	5/12/21	PEER REVIEW

COMMONWEALTH OF MASSACHUSETTS — DEBORAH W. KELLER — CIVIL — No. 45874 — REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: JG

DESIGNED BY: JG

CHECKED BY: DK

Merrill
Engineers and Land Surveyors
427 COLUMBIA ROAD, HANOVER, MA 02339 / T: (781) 826-9200
26 UNION STREET, PLYMOUTH, MA 02360 / T: (508) 746-6060
WWW.MERRILLINC.COM

SITE PLAN
BORDER STREET
SCITUATE, MASSACHUSETTS

PREPARED FOR: CARL CHRISTENSON
9 STONE AVENUE
SCITUATE, MA 02066

MARCH 10, 2021

SCALE: AS NOTED

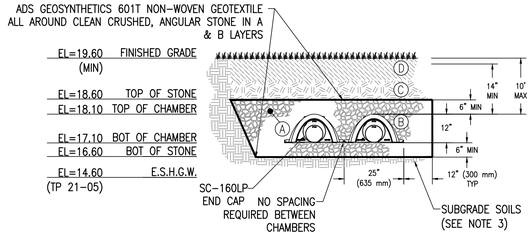
JOB No. 20–447

LATEST REVISION: MAY 12, 2021

ACCEPTABLE FILL MATERIALS: STORMTECH SC-160LP 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.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 14" (355 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[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 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).
B	**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 M43[1] 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.

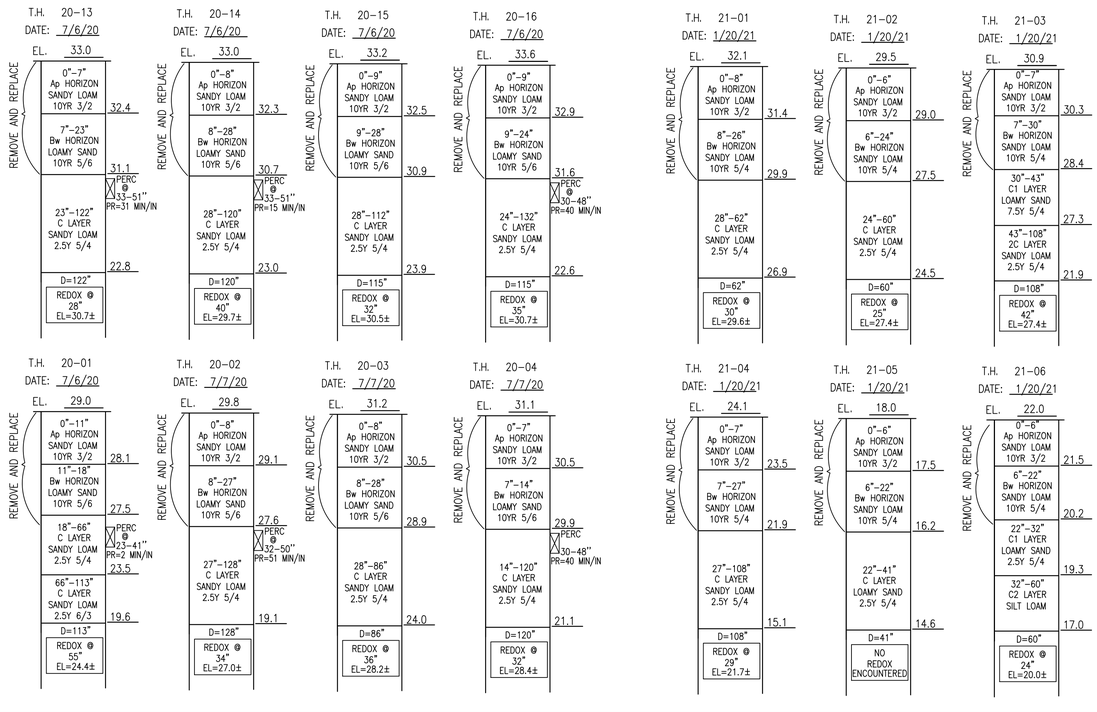


NOTES:
1. SC-160LP CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
3. 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.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. 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.

SC-160 INFILTRATION CHAMBER SYSTEM DETAIL
(NOT TO SCALE)

SOIL LOGS

PERFORMED BY: JOSHUA GREEN, E.I.T.
WITNESSED BY: RALPH COLE, P.L.S.



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.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 14" (355 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[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 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).
B	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.
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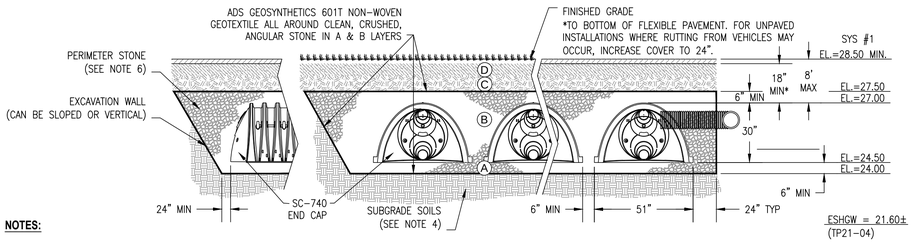
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:
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.
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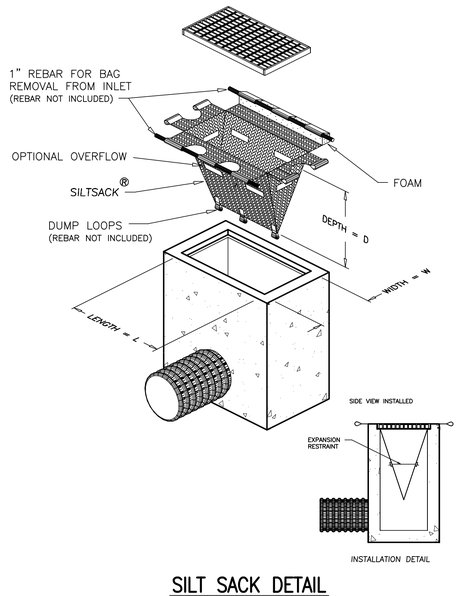
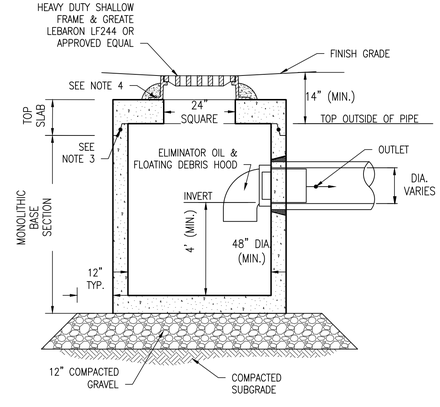
SC-740 INFILTRATION CHAMBER SYSTEM DETAIL
(NOT TO SCALE)



SILT SACK DETAIL
(NOT TO SCALE)



NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE (4" DEPTH) SHALL BE SET IN FULL MORTAR BED.
5. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.

PRECAST CATCH BASIN (SHALLOW COVER) DETAIL
(NOT TO SCALE)

REVISIONS

1	5/12/21	PEER REVIEW

COMMONWEALTH OF MASSACHUSETTS
DEBORAH W. KELLER
CIVIL
No. 46874
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: JG

DESIGNED BY: JG

CHECKED BY: DK

Merrill
Engineers and Land Surveyors
427 COLUMBIA ROAD, HANOVER, MA 02339 / T: (781) 826-9200
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WWW.MERRILLINC.COM

SITE PLAN
BORDER STREET
SCITUATE, MASSACHUSETTS

PREPARED FOR: CARL CHRISTENSON
9 STONE AVENUE
SCITUATE, MA 02066

MARCH 10, 2021

SCALE: AS NOTED

JOB No. 20-447

LATEST REVISION: MAY 12, 2021