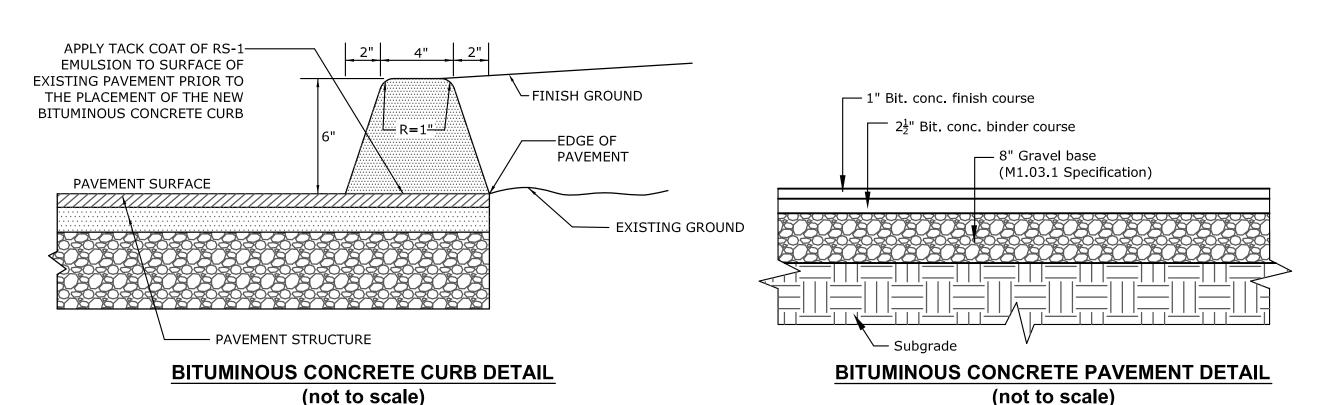
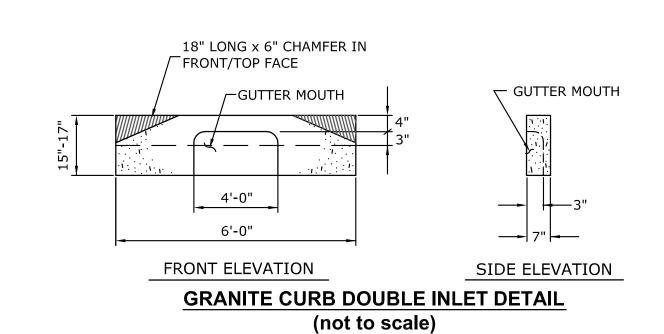


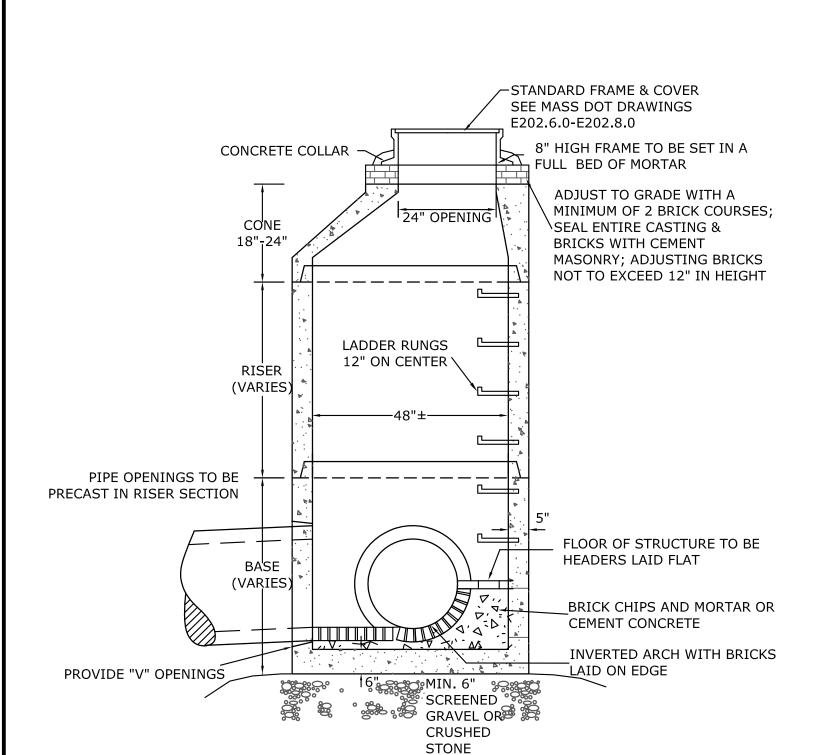
- 2. ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
- . MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED.
- . <u>FILTER FABRIC:</u> A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- <u>BEDDING:</u> SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- . MINIMUM COVER: MINIMUM COVER OVER ALL RETNETION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER PIPE AND 24" OF COVER FOR 42" - 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.



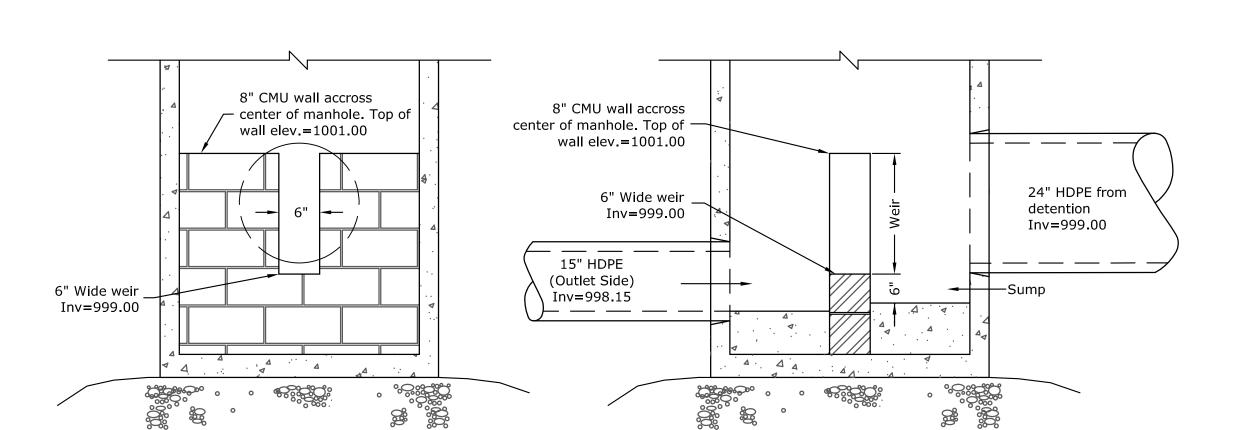
PLAN VIEW

(not to scale)

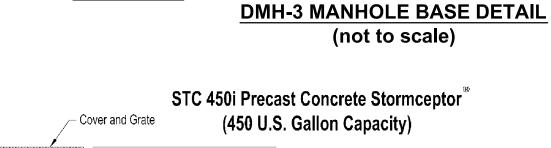




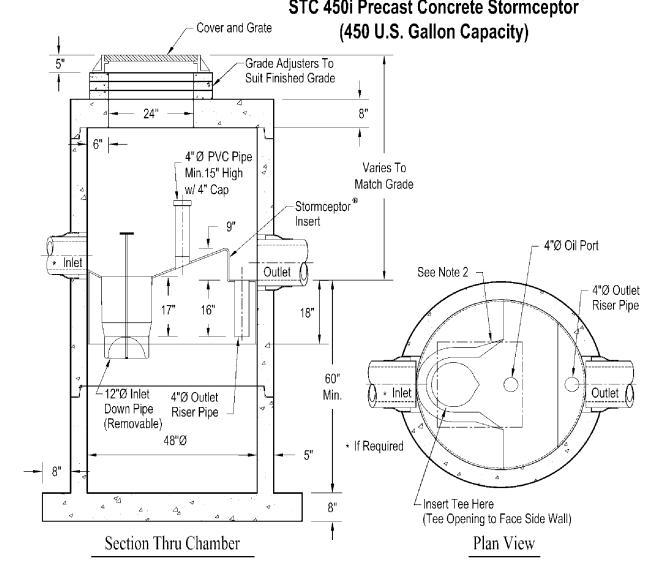




Section Y-Y



Section X-X



STORMCEPTOR STC 450i DETAIL (not to scale)

GREENBRIAR® - FLAT LENS

* LOAD BEARING CONCRETE COLLAR

AS SPECIFIED BY DESIGN ENGINEER >

UNDISTURBED

 $\underline{\text{TOP OF PIPE}} = 1001.00$

BOTTOM OF PIPE = 999.00

BOTTOM OF STONE = 998.67/

* CLASS I OR II MATERIAL PER

ASTM D2321, LATEST EDITION,

LIFTS TO 95% MIN. OF MAX. SPD

COMPACTED IN MAX. 8" LOOSE

* LOAD BEARING CONCRETE COLLAR >

UNDISTURBED >

CLASS I OR II MATERIAL PER

ASTM D2321, LATEST EDITION,

COMPACTED IN MAX. 8" LOOSE

LIFTS TO 95% MIN. OF MAX. SPD

(WHERE REQUIRED)

AS SPECIFIED BY DESIGN ENGINEER

(WHERE REQUIRED)

FRAME & GRATE

CORRUGATED HDPE RISER (SPECIFY DIAMETER

UNDISTURBED

* CLASS I BACKFILL REQUIRED AROUND 60" DIAMETER FITTINGS

IN TRAFFIC AREAS SUCH THAT THE LIVE LOAD IS TRANSMITTED

TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER.

* LOAD BEARING CONCRETE COLLAR SHALL BE CONSTRUCTED

(BY OTHERS)

* BEDDING (CLASS I OR II MATERIAL)

= 4" MIN. FOR 12" - 24" HDPE PIPE .

= 6" MIN. FOR 30"-60" HDPE PIPE

(SPECIFY DIAMETER)

BEDDING (CLASS I OR II MATERIAL)

= 4" MIN. FOR 12" - 24" HDPE PIPE

PIPE DETENTION SYSTEM DETAIL

RISER AND CLEANOUT

(not to scale)

= 6" MIN. FOR 30"-60" HDPE PIPE

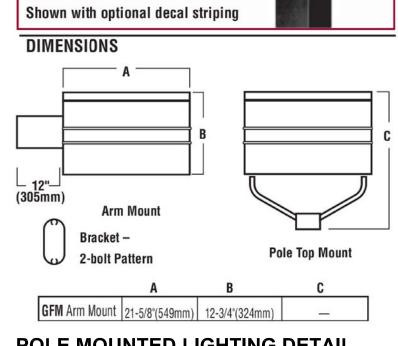
SOLID WALL HDPE CLEANOUT

SECTION A-A

SECTION B-B

LID (AS REQUIRED)





POLE MOUNTED LIGHTING DETAIL (not to scale)

		Drawn By
		Checked

DATE:

NORMAN G. HILL, PE #31887

Detail Plan

Parking Expansion

located at

1762 Main Street

Leicester, MA

Prepared For

Cultivate Holdings, LLC

P.O. Box 812006

Land Planning, Inc. Civil Engineers • Land Surveyors

Field By:

Designed By:

REVISIONS

Date Design Checked

JL/BH

MHG

MHG

NGH

3/19

4/19

4/19

4/19

* CLASS I OR II MATERIAL PER

ASTM D2321, LATEST EDITION,

COMPACTED IN MAX. 8" LOOSE LIFTS TO 95% MIN. OF MAX. SPD

Environmental Consultants

167 Hartord Ave. Bellingham, MA 02019

214 Worcester St.

Wellesley, MA 02482

Scale: As Noted

Owned By	
Topnotch Realty Corporation	
208 Pine Street	
Leicester, MA 01524	Date

Bellingham 508-966-4130 North Grafton N. Grafton, MA 01536 508-839-9526

Hanson 1115 Main Street Hanson, MA 02341 781-294-4144 www.landplanninginc.com

April 12, 2019 G9370

General Notes 1. All elevations refer to NAVD 1988 datum. 2. No portion of the site is located within the limits of the flood zone as shown on the FIRM Map #25027C0590E dated 3.All underground utility locations shown are based on field evidence and records provided to Land Planning, Inc.. These locations should be considered approximate. Other utilities may exist which are not evident or for which record information was not found. We assume no responsibility for damages incurred as a result of utilities omitted or inaccurately shown. Erosion & Sediment Control Notes 1. Sediment barriers are to be installed where shown on this plan. The contractor and the owner are responsible for the proper maintenance of the sediment barriers and to identify and correct all sources of erosion. Extra sediment barrier materials are to be stored on site in order to quickly repair erosion prone areas. Periodic maintenance of the erosion control structures is required in order to insure the proper protection of the resource areas. 2. Rough grading and pavement construction are to be confined to areas as shown on these plans. Any stockpiled material that is subject to erosion shall be protected at its base on the down-slope side with a silt fence. 3. Temporary stabilization of disturbed areas is required to limit erosion toward abutting properties and public ways. All graded slopes are to be stabilized on a daily basis with special care taken to avoid routing rainfall through gullies toward the resource areas. Areas of erosion are to be repaired on a daily basis. 4. The contractor is to use proper judgment relative to construction practices during adverse weather conditions or periods of high groundwater. No work is to be performed near the wetland areas during periods of heavy rainfall. Inspection is required after more than 1/2" of rainfall in 24 hours.

5. All graded areas are to be loamed and seeded as soon as possible in order to insure the rapid stabilization of the erosion prone areas. A grass seed mixture of 20% Red Top, 60% Chewings Fescue and 20% Kentucky Bluegrass is recommended. "Hydroseed" with high fiber

6. The Sediment barriers shall remain in place until all upgradient areas

maintenance of these eroded areas will further insure the successful

7. During periods of heavy rainfall, it will be expected to experience erosion of the unstabilized slopes. Immediate attention to the

stabilization of the exposed slopes while limiting the impacts to

8. See the Construction Stormwater Pollution Prevention Plan for

1. Place 4" Loam and seed all disturbed areas of the project not

evident or for which record information was not found. The

excavation begins. We assume no responsibility for damages

incurred as a result of utilities omitted or inaccurately shown.

project engineer of record in writing prior to the start of construction. Failure by the contractor to notify the project engineer shall constitute acceptance of full responsibility by the contractor to complete the scope of work as defined by the

4. All work shall conform to Town of Leicester requirements and Massachusetts Highway Department construction standards as

3. It is the responsibility of the contractor to review all of the drawings and specifications associated with this project work and project scope prior to the initiation of construction. Should the contractor find a conflict with the documents, relative to the specifications or applicable codes, it is the contractor's responsibility to notify the

drawings and in full conformance with local regulations and codes.

2. All underground utility locations shown are based on field evidence

and records provided to Land Planning, Inc.. These locations should

be considered approximate. Other utilities may exist which are not

contractor must contact all utility companies and "Dig Safe" before

content.

Utility Notes

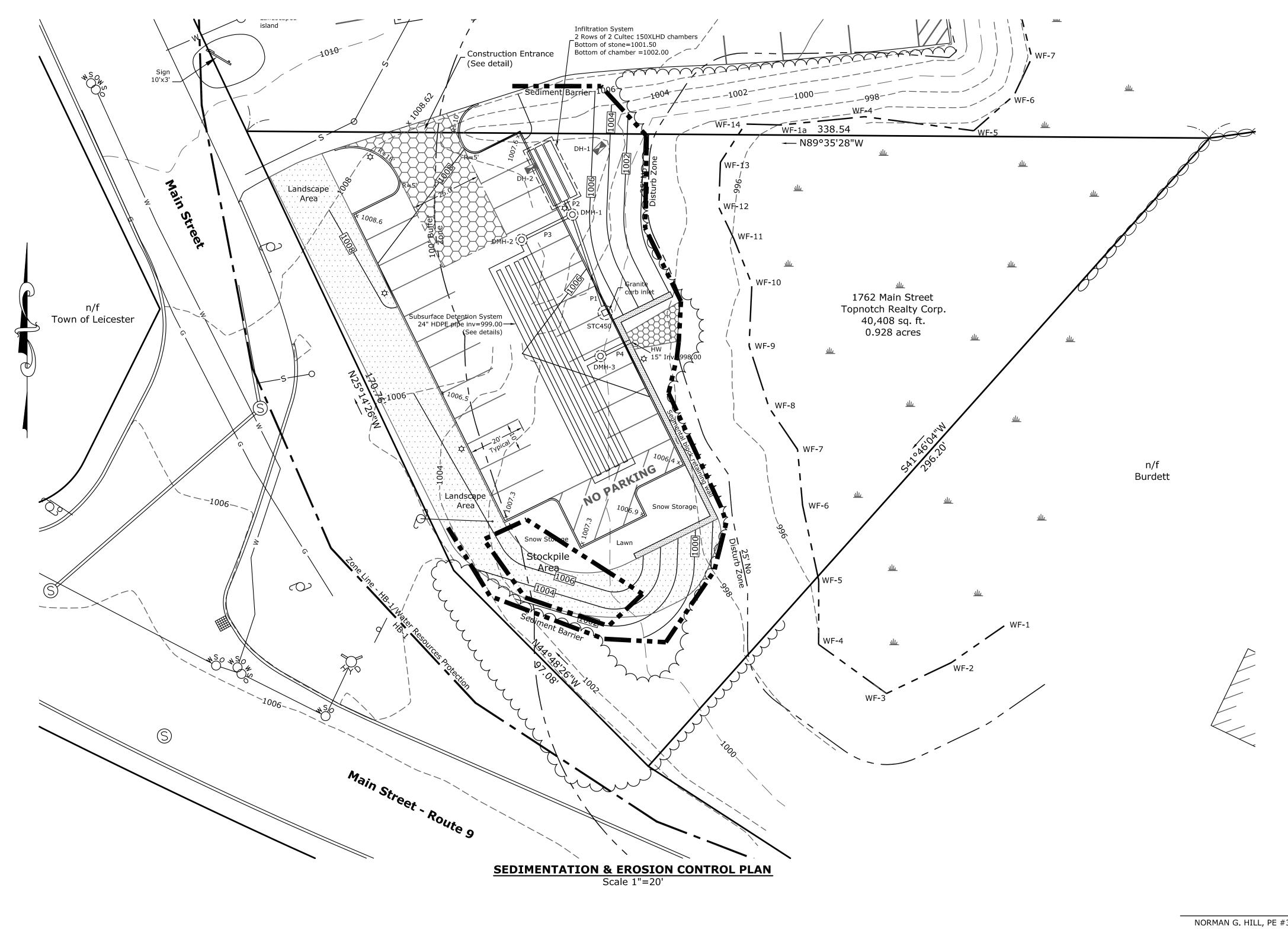
applicable.

have been stabilized.

nearby resource areas.

otherwise improved.

additional practices and controls.



1"-3" Washed stone over layer of filter fabric **CONSTRUCTION ENTRANCE** ANTI-TRACKING PAD DETAIL Not to Scale

(IN FEET)

1 inch = 20 ft.

Notes: 1. Silt fence shall be placed on slope event and remove sediment when storage height. **GRAPHIC SCALE** concentrated flow conditions.

-Support mesh Steel or wood post-Pre-fabricated silt fence is acceptable if Extra strength filter fabric needed installed per manufacturer. without wire mesh support If ponding is anticipated or occurs, _ — Straw wattle double number of stakes for support. Attach filter fabric securely to upstream side of post. contours to maximize ponding efficiency. 2. Inspect and repair fence after each storm necessary. 9" Maximum recommended _ 4" deep trench with 2. Removed sediment shall be deposited to compacted backfill at silt Stake Spacing an area that will not contribute sediment Silt Fence: 10' Max. spacing with off-site and can be permanently stabilized. wire support fence. 6' Max. spacing SEDIMENT BARRIER DETAIL 4. Do not place silt fence in streams or without wire support fence. (not to scale) Straw Wattles: 4' Max

DATE: NORMAN G. HILL, PE #31887

Sedimentation & Erosion Control Plan Parking Expansion located at 1762 Main Street Leicester, MA

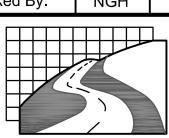
Prepared For Cultivate Holdings, LLC P.O. Box 812006 Wellesley, MA 02482

Owned By **Topnotch Realty Corporation** 208 Pine Street Leicester, MA 01524

Scale: 1" = 20'

LEGEND SW STONE WALL IPF IRON PIN FOUND DHF DRILL HOLE FOUND BOUND TO BE SET BOUND FOUND DRAIN MANHOLE CATCH BASIN UTILITY POLE --100-- EXISTING CONTOUR PROPOSED CONTOUR PROPOSED SPOT GRADE 581x5 LIGHT - WALL MOUNTED LIGHT - POLE MOUNTED —— EC&T — ELECT., TEL. & CABLE — w — WATER LINE —— s —— SEWER LINE x WF-# WETLAND FLAG

-								
	REVISIONS							
	No.	Date	Design	Checked				
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	Field By:		JL/BH	3/19				
	De	esigned By:	MHG	4/19				
	Dr	awn By:	MHG	4/19				
	Cł	necked By:	NGH	4/19				
			•					



Land Planning, Inc.

Civil Engineers • Land Surveyors **Environmental Consultants**

Bellingham

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North Grafton 214 Worcester St.

N. Grafton, MA 01536 508-839-9526 Hanson

1115 Main Street Hanson, MA 02341 781-294-4144

www.landplanninginc.com **April 12, 2019**

G9370

