

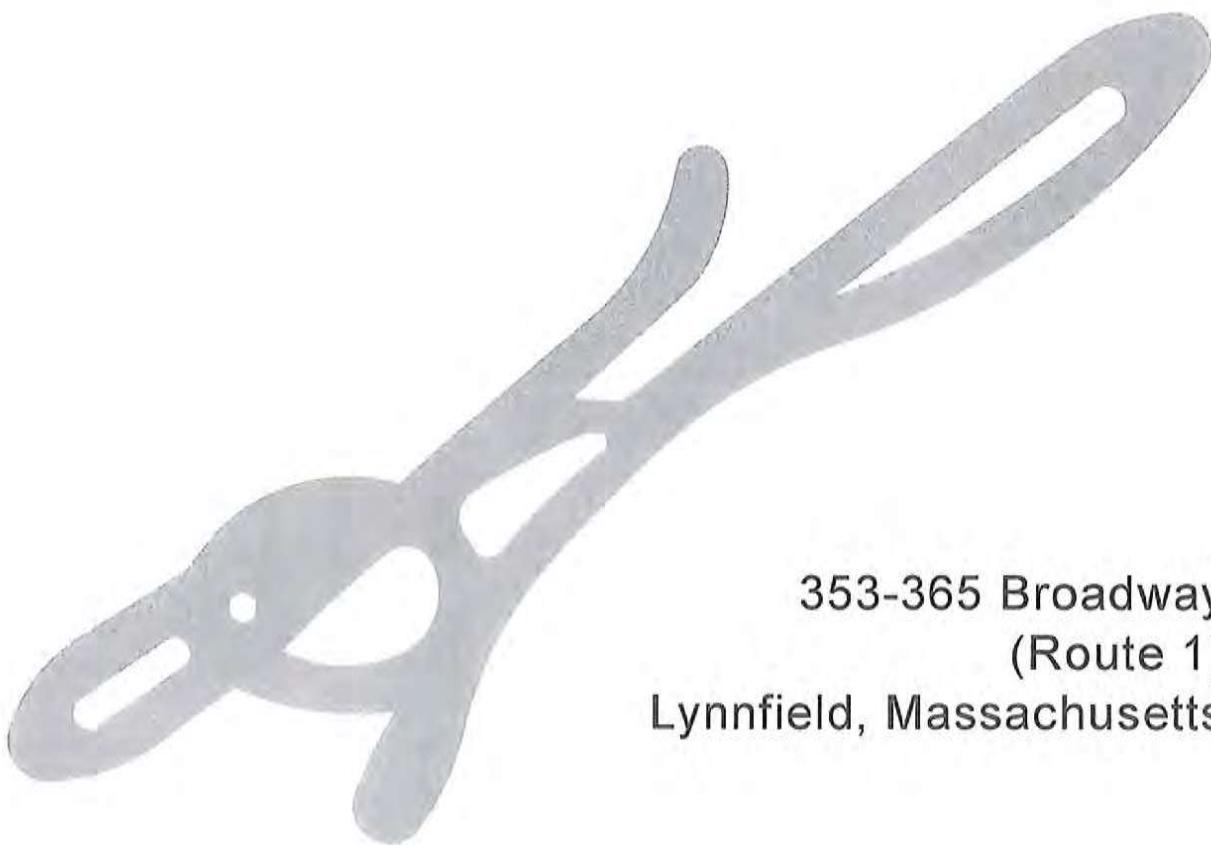
603 Salem Street  
Wakefield, MA 01880  
Tel: (781) 246-2800  
Fax: (781) 246-7596

Nantucket, MA 02554  
Tel: (508) 228-7909

Refer to File No.

LYF-0347C

## Storm Water Permit Application



353-365 Broadway  
(Route 1)  
Lynnfield, Massachusetts

April 11, 2022

**Stormwater Report and Narrative**  
**353-365 Broadway (Route 1)**  
**Lynnfield, Massachusetts**

**April 11, 2022**

As a result of the March 11, 2022, peer review from Linden Engineering Partners, which reviewed the Stormwater Permit Application, Plans and Documents for 353-365 Broadway (Route 1), Lynnfield, Massachusetts, the following response is designed to address concerns outlined in that report. The Stormwater Report and Narrative is designed to respond to Items 2, 3, 4, 5, 6 & 9 in that peer review report. Items 1, 7, 8, 10 & 11 will be responded to independently after the narrative.

#### **Project Description**

The proposed project consists of the demolition of the former Jeep Dealership it having been replaced by a new more modern facility just south of the subject site, regrading and repaving the site to serve as accessory use parking to the auto dealerships owned by various Kelly entities adjourning the site on Route 1.

Under the DEP regulations, the project is a redevelopment site, as it does not involve new impervious areas, but as such, must make improvements to the quality or quantity of runoff as a result of the project. Figures E1 & P1 show a comparison of land coverage of the existing site to the proposed. The existing site within the project boundary area consisted of 101,809 sq. ft. of imperviousness shown in dotted blue. Pervious areas of the site to be eliminated are shown in yellow and consists only of a couple of landscape islands and a porous paver area. Note that existing pervious areas of the site to remain in both the existing and proposed are designated in red.

The proposed site maintains most of the previous red landscaped areas, but adds numerous landscaped islands, designed to function as rain gardens or pervious river rock areas. In addition, these areas will be utilized to plant replacement trees which are required under the Town's tree by-law.

#### **Drainage System**

**Site drainage** – The existing site is currently serviced by a drainage system discharging northwesterly under Route 1. The proposed drainage system is designed to act in a similar fashion to the existing drainage system, incorporating a series of five catch basins to handle the surface flow. Note that the existing trench drain on the most northerly state highway entrance is designed to remain. Drainage patterns and watersheds to the drainage system remain similar to those already existing with flow capture and excess runoff unchanged. The Town of Lynnfield Stormwater Management Regulations encourage the use of LID measures. While many of those measures are not applicable to this redevelopment site due to underlying soil conditions and fill, it was agreed that islands within the parking lot could be vegetated primarily with the replacement trees required under the Town of Lynnfield Tree By-law and that small area drains could be placed in depressed islands to function somewhat as rain gardens. To that end, a few

islands have been shown and a detail added as how they typically should be graded and constructed from a drainage standpoint. Most importantly, however, is the addition of pervious river rock areas along the northwesterly retaining wall to be used as a tree planting area. River rock has also been added in the vehicle display area along Route 1.

**Infiltration** - The Town of Lynnfield's Stormwater Management By-law also encourages infiltration on redevelopment sites. In order to explore the possibility of infiltration, two (2) soil evaluator holes were dug in the area of THD1 and THD2 as shown on the site plan. The purpose of these holes was to determine the suitability of soils in that area. Note that the very front portion of the site is not suitable for infiltration due to a gravity sewer that runs in a 20-foot easement in that portion of the site. Areas north and east of that area were rejected as possible sites due to ledge in proximity of the surface for much of the area and the fact that the front portion of the site slopes generally downward from north to south along the Route 1 frontage. Both test holes (copy of logs are enclosed in the appendix of this report) showed similar soil cross-sections with approximately 8-feet of miscellaneous till, boulder, broken ledge, and concrete material underlaid by fine sand (glacial fluvial deposits) groundwater levels were 127.52 and 126.62 in test holes 1 and 2, respectively. While it is possible to excavate 8-feet of material, to accomplish infiltration there are a number of limiting factors in such a construction. First is cost, in that the excavation and disposal of 8-feet of unsuitable material and its replacement material of suitable permeability is expensive. The overriding factor, however, is that the drain grades are such that drainpipe flow lines in this area are between Elevation 130 and Elevation 130.62 with groundwaters in Test Hole 1 at 127.52 and in Test Hole 2 at 126.62 because the bottom of any leach must be below those drain inverts it leaves little hydraulic grade for storage and leach. In the alternative, however, the roof from the proposed future building could be easily leached into this area with a roof drain discharge as high as Elevation 136 leaving sufficient grade to the groundwater for deep contactors and bottom of leach separation. Because of this analysis, the applicant is willing to commit to the leach of the future building into an infiltration area as designated on the plan. Infiltration has been added in the river rock areas and rain gardens, as well.

### **Redevelopment Improvement**

Stormwater management regulations require overall improvement for redevelopment of projects and this project is proposed to make water quality improvements in contained site runoff as follows:

- All new catch basins will be supplied with deep sumps and gas traps as required by the stormwater management policy and final discharge of the system will be through a properly sized water quality device. In addition, while no credit is being taken for the infiltration area rain gardens or river rock areas, their effect on water quality and quantity can only be positive.

The following are the responses to the other numbered paragraphs mentioned at the beginning of this report.

1. The green cards are attached to this report.

7. The books and pages were provided on the Stormwater Application at the bottom of the page and indicated by the asterisk and the phrase "See Below." I do not know where the Registered Land reference came from.
8. The proposed straw waddle cross section has been changed to a 12-inch diameter compost sock with a pea stone wedge on the uphill side as requested.
9. The stormwater narrative figures make clear what was being paved and not being paved. As far as what pavement is being replaced it is anticipated that all paving will be scarified and replaced whether the grades are changing or not.
10. Attached are the applicant's responses to the 10 stormwater standards.
11. A signed No Illicit Discharge Statement is attached.

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### COMPLETE THIS SECTION

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A. Signature			
B. Received by (Printed Name)	C. Date of Delivery	D. Is delivery address different from item 1? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1. Article Addressed to:			If YES, enter delivery address below:
2. 7019 0700 0001 6435 2045			
PS Form 3811, July 2013 Domestic Return Receipt			

KEL-ROUTE 1, LLC  
155 ANDOVER STREET  
DANVERS, MA 01923

LYNNFIELD WATER DISTRICT  
842 SALEM STREET  
LYNNFIELD, MA 01940

A. Signature			
B. Received by (Printed Name)	C. Date of Delivery	D. Is delivery address different from item 1? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1. Article Addressed to:			If YES, enter delivery address below:
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PS Form 3811, July 2013 Domestic Return Receipt			

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PS Form 3811, July 2013 Domestic Return Receipt			

A. Signature			
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1. Article Addressed to:			If YES, enter delivery address below:
2. 7019 0700 0001 6435 2045			
PS Form 3811, July 2013 Domestic Return Receipt			

COMPLETE THIS SECTION ON DELIVERY		
A. Signature 	<input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee	
B. Received by (Printed Name) 	C. Date of Delivery 	
D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No		

3. Service Type	
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Priority Mail Express™
<input type="checkbox"/> Registered	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Insured Mail	<input type="checkbox"/> Collect on Delivery
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
52	
Return Receipt	
COMPIE THIS SECTION ON DELIVERY	

Signature 		<input type="checkbox"/> Agent	<input type="checkbox"/> Yes
		<input type="checkbox"/> Addressee	<input type="checkbox"/> No
1. Received by (Printed Name)		C. Date of Delivery	
		2. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No	
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3. Service Type	<input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
4. Restricted Delivery? (Extra Fee)	<input type="checkbox"/> Yes
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GROTT REALTY TRUST  
GIUGLIANO SALVATORE-GILFR  
1 GIUGLIANO TERRACE  
LYNNEFIELD, MA 01940

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四庫全書

一九四〇年二月

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Domestic 38-1-1 July 2018

The applicant has reviewed the 10 Stormwater Management Standards in terms of compliance as follows:

1. No new stormwater conveyances will discharge untreated water directly to or to cause erosion in wetlands or waters of the Commonwealth. This redevelopment proposal includes no new outfalls and further adds a treatment train to the majority of the existing imperviousness as part of the project.
2. The proposal does not increase the rate of post-development peak discharge and in fact incorporates some mitigative measures such as flattening of slopes and the addition of rain garden and river rock areas to reduce runoff.
3. The loss of annual recharge to the groundwater will be eliminated or minimized through the infiltration of the roof runoff from the proposed structure when constructed, also the use of landscaped and river rock areas for infiltration.
4. The 80% TSS removal is being provided by a treatment train of deep sump catch basins followed by a proprietary treatment device.
5. The applicant believes that he is complying with the land uses for higher potential pollutant loads because this project does not result in new stormwater conveyances of untreated stormwater in compliance with Standard 1.
6. The project does not constitute a discharge within a Zone II or Interim Wellhead Protection Area of public water supply, nor is it a stormwater discharge to a Zone A based on a review of those zones shown on the Mass Mapper Database.
7. As a redevelopment project, we believe that the requirements of Standard 7 are met.
8. The amended erosion control detail, as well as for Stormwater Pollution Prevention Plan, is designed to address construction period erosion sedimentation and pollution prevention.
9. A long-term operation and maintenance plan is attached.
10. A No Illicit Discharge Statement is attached.

JOB FILE: HF-03-HC

STORMWATER PERMIT APPLICATION

To: Lynnfield Conservation Commission  
55 Summer Street  
Lynnfield, MA 01940  
(781) 334-9495  
ecademartori@town.lynnfield.ma.us

The undersigned hereby submits a Stormwater Management Permit Application as defined in the Town of Lynnfield Charter and Bylaws, Chapter 4A - Stormwater Management Bylaw and requests a review and determination by the Authorized Enforcement Authority of the enclosed Stormwater Management Plan, Erosion and Sediment Control Plan, and Operation and Maintenance Plan. The applicant hereby authorizes the Authorized Enforcement Authority and/or its designees to inspect the property described below from time to time for the purpose of establishing compliance with any permit or order of the Authorized Enforcement Authority, pursuant to the said bylaw.

The Stormwater Management Permit involves property where owner's title to the land is derived under deed for 353-365 Broadway Realty Trust, dated 01/09/2012, and recorded in the Essex County Registry of Deeds, Book See Below\*, Page       , or Land Court Certificate of Title No., Registered in 85063 District, Book       , Page       .

Give a brief summary of the nature of the project.

demo existing dealership, regrade parking, install new drainage.

Total Parcel Size: 124,443 s. f. Proposed Area of Disturbance 110,000± s. f.

The property (building) is described as being located at 353 Broadway, Lynnfield, MA; it is currently used as vacant, and the changes proposed to be made are demo existing dealership, regrade parking, install new drainage.

The project is located on the parcel shown on Lynnfield Assessors Map       , Parcel See Below\*

Applicant's Signature Peter J. Ogren Owner's Signature(s) Peter Almeida  
(if different than Applicant)

Applicant's Name (print) Peter J. Ogren Owner's Names(s) Peter Almeida

Applicant's Address 603 Salem St Owner's Address 155 Andover St  
Wakefield MA Danvers, MA 01923

Date Received by Conservation Commission Office: \_\_\_\_\_  
Signature \_\_\_\_\_

3/21/17	*BOOK 30993 33911 35390	PG 275 215 589
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*ASSESSORS PARCEL ID	
0052 0000 2486	0052 0000 2468

Page Two

STORMWATER PERMIT APPLICATION

03/21/17

Please note:

- 1) An applicant for a Stormwater Management Permit Review must file with the Authorized Enforcement Authority: a completed application form with original signatures of all owners plus ten (10) copies thereof; one (1) copy of the abutters' list, certified by the Assessors' Office; ten (10) copies of the Stormwater Management Plan and project description as specified in Section 6 of these Rules and Regulations; ten (10) copies of the Erosion and Sediment Control Plan as required by Section 7 of these Rules and Regulations; ten (10) copies of the Operation and Maintenance Plan as required by Section 8 of these Rules and Regulations and payment of the application and review fees.
- 2) The date of receipt by the Conservation Commission Administrator shall be the official filing date.
- 3) The Application and Review Fee shall be dependent on the project size and is as follows: \$2500 for projects 1-2 acres in size; \$3,500 for projects 2-3 acres in size; and \$1,000 per acre for projects greater than 3 acres.
- 4) The Inspection Fee shall be in an amount equal to seven hundred and fifty dollars (\$750) per acre.
- 5) Legal ad prepared by the Conservation Administrator and printed at the applicant's expense in the Lynnfield Villager with the same submittal deadlines as Notices of Intent.
- 6) The applicant shall provide notification to all abutters and any property owner within 100 feet of the property line of the land where the activity is proposed, including if separated from that land by a public or private street. Notice must be made in writing by Certificates of Mailing or Certified Mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.



# 100 foot Abutters List Report

Lynnfield, MA  
February 25, 2022

## Subject Property:

Parcel Number: 0052-0000-2486  
CAMA Number: 0052-0000-2486  
Property Address: 353 BROADWAY

Mailing Address: 353-365 BROADWAY REALTY TRUST  
KELLY BRIAN D, TR  
155 ANDOVER STREET  
DANVERS, MA 01923

## Abutters:

Parcel Number: 0052-0000-2544  
CAMA Number: 0052-0000-2544  
Property Address: 379 BROADWAY

Mailing Address: HERB CHAMBERS OF LYNNFIELD INC  
385 BROADWAY  
LYNNFIELD, MA 01940

Parcel Number: 0052-0000-2599  
CAMA Number: 0052-0000-2599  
Property Address: 375 BROADWAY

Mailing Address: LYNNFIELD COMMONS II LLC  
100 GRANDVIEW ROAD SUITE 203  
BRAINTREE, MA 02184

Parcel Number: 0056-0000-0319  
CAMA Number: 0056-0000-0319  
Property Address: 325 BROADWAY

Mailing Address: KEL-ROUTE 1, LLC  
155 ANDOVER STREET  
DANVERS, MA 01923

Parcel Number: 0056-0000-0376  
CAMA Number: 0056-0000-0376  
Property Address: 307 BROADWAY

Mailing Address: GROTTO REALTY TRUST GIUGLIANO  
SALVATORE-GILFR  
1 GIUGLIANO TERRACE  
LYNNFIELD, MA 01940

Parcel Number: 0056-0000-0469  
CAMA Number: 0056-0000-0469  
Property Address: REAR BROADWAY

Mailing Address: LYNNFIELD WATER DISTRICT  
842 SALEM STREET  
LYNNFIELD, MA 01940

Parcel Number: 0056-0000-0577  
CAMA Number: 0056-0000-0577  
Property Address: 385 REAR BROADWAY

Mailing Address: TOWN OF LYNNFIELD CONSERVATION  
COMMISSION  
55 SUMMER STREET  
LYNNFIELD, MA 01940



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2/25/2022

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Page 1 of 1



353-365 Broadway-100 ft.

Lynnfield, MA

1 inch = 292 Feet

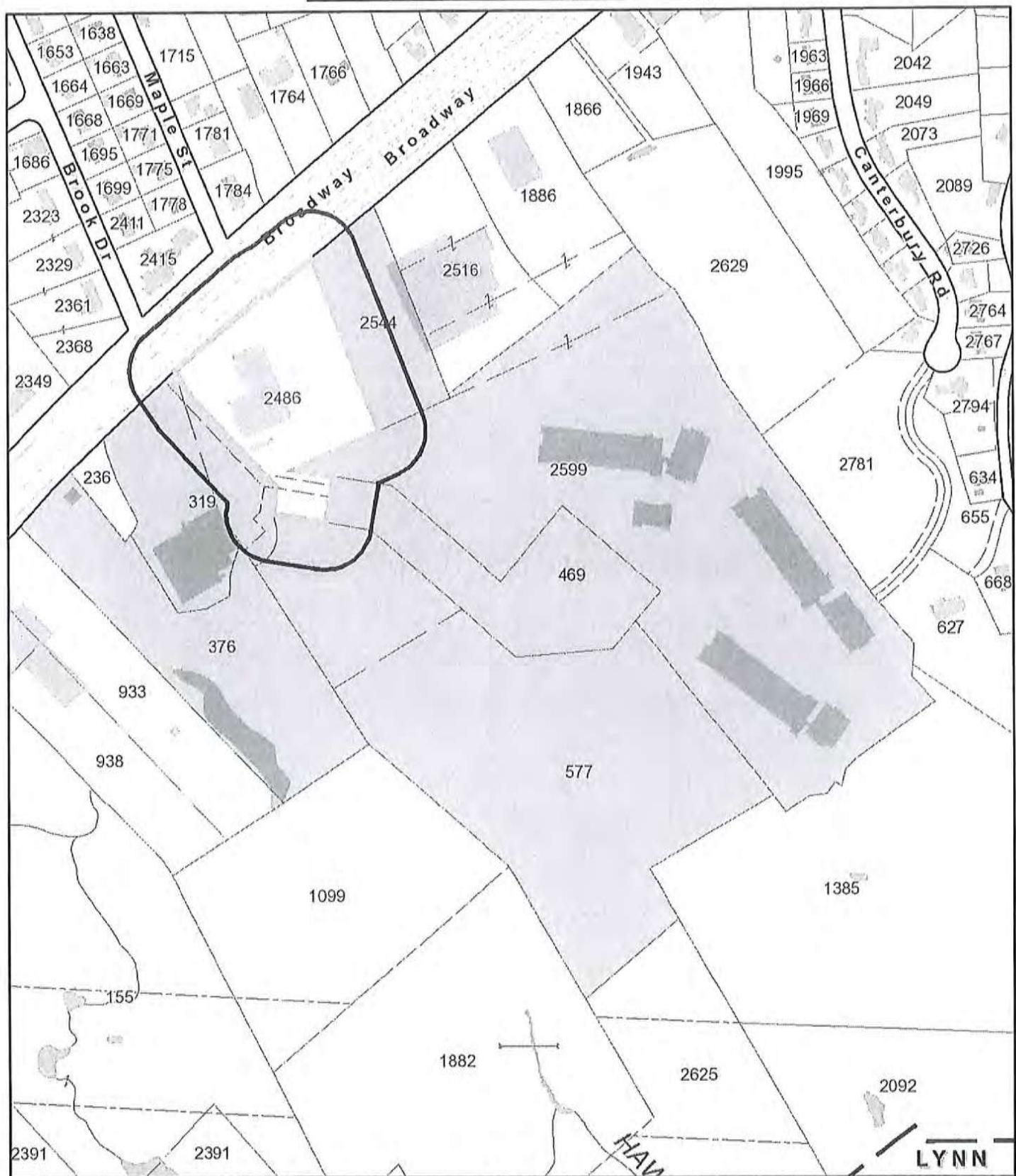
February 25, 2022

CAI

# Technologies

Fusion Mapping Geospatial Solutions.

www.cai-tech.com



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**Notice of Hearing  
Conservation Commission  
Lynnfield, Massachusetts**

The Lynnfield Conservation Commission will hold a **Public Hearing at the Lynnfield Town Hall, 55 Summer Street, Lynnfield, Massachusetts on March 15th, 2022, 6:30pm** to review a Stormwater Management Permit Application as defined in the Town of Lynnfield Charter and Bylaws, Chapter 213, Regulation Chapter 320, Article 3. The application has been filed for property at:

**353 Broadway (next to Kelly Jeep Chrysler)  
Lynnfield, Massachusetts**

The applicant proposes to demo the existing building, regrade parking and install new drainage.

25164

**KELLCO MANAGEMENT INC.**  
 155 ANDOVER STREET  
 DANVERS, MA 01923

BANK OF AMERICA  
 5-13/110

2/22/2022

PAY TO THE ORDER OF Town of Lynnfield \$ \*\*2,500.00

Two Thousand Five Hundred and 00/100 \*\*\*\*\* DOLLARS

18 PROTECTED AGAINST FRAUD 8



Town of Lynnfield  
 55 Summer Street  
 Lynnfield, MA 01940

MEMO

Storm Water Permit

10 25 16 410 100 11000 13810 004640588 13710



THIS DOCUMENT IS A PERSONAL CHECK  
WITHHELD FROM AUTOMATIC CLEARING

KELLCO MANAGEMENT INC.

25164

Town of Lynnfield

Town of Lynnfield-Storm Water Permit

2/22/2022

2,500.00

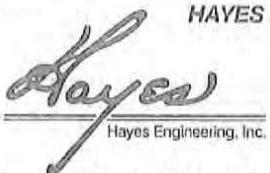
*LW-0541C*

CASH-BANK OF AME Storm Water Permit

2,500.00

DATE	INVOICE NO.	COMMENT	AMOUNT	NET AMOUNT
02/28/2022		Stomwater Permit Application LYF-0347C		1,000.00
DATE 02/28/22	VENDOR Town of Lynnfield		TOTAL	1,000.00

THIS CHECK HAS MICROPRINTING IN SIGNATURE AREA



HAYES ENGINEERING, INC.

Civil Engineering &  
Land Surveying  
603 Salem Street  
Wakefield, MA 01880

Hayes Engineering, Inc.

EASTERN BANK      53-179  
LYNN, MA      113

One Thousand and no/100

DATE	CHECK NO.	AMOUNT
02/28/22	87973	\$1,000.00

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TO THE  
ORDER OF

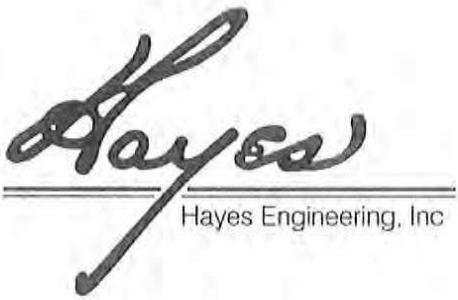
TOWN OF LYNNFIELD  
TOWN HALL  
55 SUMMER STREET  
LYNNFIELD MA 01940

HAYES ENGINEERING, INC.

MP

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## Water Quality Flow Calculation Worksheet

603 Salem Street  
Wakefield, MA 01880  
Tel: (781) 246-2800  
Fax: (781) 246-7596

Nantucket, MA 02554  
Tel: (508) 228-7909

Refer to File No.

LYF-0347C

### For First 1-inch of Runoff WQV:

Impervious Surfaces to Stormceptor:

Catchment	Time of Conc. (hours)	Impervious Area (acres)	Impervious Area (sq. mi.)
P2A	0.10	1.566	0.002446
$\Sigma$		1.566	0.002446

### Time of Concentration:

Longest Catchment Tc: 0.10

$q_u$  from Figure 2, attached: 774 csm/in

### Water Quality Flow (WQF):

$$Q_{1.0} = (q_u)(A)(WQV)$$

Where:

$Q_{0.5}$  = peak flow rate associated with the first inch of runoff;

$q_u$  = the unit peak discharge, in cubic feet per second per square mile per inch;

A = impervious surface in drainage area, in square miles;

WQV = water quality volume, in inches (1.0 inches)

$$Q_{0.5} = \left(774 \frac{\text{csm}}{\text{in}}\right) (0.002446 \text{ sq. mi.})(1.0")$$

$$Q_{0.5} = 1.89 \text{ cfs}$$

**Water Quality Flow Calculation**  
 Kelly Jeep Phase 2, Lynnfield, MA  
 October 5, 2020

The StormCeptor STC 4800 will provide a presumptive removal rate of 77% for water quality flows through 2.47 cfs. See Massachusetts sizing table below:

**Massachusetts – Water Quality (Q) Flow Rate**

Stormceptor STC Model	Inside Diameter	Typical Depth Below Inlet Pipe Invert <sup>a</sup>	Water Quality Flow Rate Q <sup>b</sup>	Peak Conveyance Flow Rate <sup>c</sup>	Hydrocarbon Capacity <sup>d</sup>	Maximum Sediment Capacity <sup>e</sup>
STC 450i	4	68	0.40	5.5	86	46
STC 900	6	63	0.89	22	151	89
STC 2400	8	104	1.58	22	840	305
STC 4800	10	140	2.47	22	909	543
STC 7200	12	149	3.56	22	1,059	639
STC 11000	2 x 10	142	4.54	48	2,792	1,086
STC 16000	2 x 12	148	7.12	48	3,055	1,677

<sup>a</sup>Depth Below Pipe Inlet Invert to the Bottom of Base Stub, and Water & Sediment Capacity Allowance to accommodate specific site design and performance needs. Depth can vary to accommodate special site conditions. Contact your local representative for assistance.

<sup>b</sup>Water Quality Flow Rate Q is based on 30% annual average TSS removal of the 10-year return period distribution.

<sup>c</sup>Peak Conveyance Flow Rate is based upon a velocity of 10 ft per second and a total pipe area of 18-inch, 16-inch, and 54-inch diameters.

<sup>d</sup>Hydrocarbon & Sediment capacity can be modified to accommodate specific site design requirements. Contact your local representative for assistance.

**Water Quality Flow Calculation**  
 Kelly Jeep Phase 2, Lynnfield, MA  
 October 5, 2020

Figure 4: for First 1-inch Runoff, Table of qu values for Ia/P Curve = 0.034, listed by tc, for Type III Storm Distribution



Tc (Hours)	qu (csm/in)	Tc (Hours)	qu (csm/in)	Tc (Hours)	qu (csm/in)
0.01	835	2.7	197	7.1	95
0.03	835	2.8	192	7.2	94
0.05	831	2.9	187	7.3	93
0.067	814	3	183	7.4	92
0.083	795	3.1	179	7.5	91
0.1	774	3.2	175	7.6	90
0.116	755	3.3	171	7.7	89
0.133	736	3.4	168	7.8	88
0.15	717	3.5	164	7.9	87
0.167	700	3.6	161	8	86
0.183	685	3.7	158	8.1	85
0.2	669	3.8	155	8.2	84
0.217	654	3.9	152	8.3	84
0.233	641	4	149	8.4	83
0.25	628	4.1	146	8.5	82
0.3	593	4.2	144	8.6	81
0.333	572	4.3	141	8.7	80
0.35	563	4.4	139	8.8	79
0.4	536	4.5	137	8.9	79
0.416	528	4.6	134	9	78
0.5	491	4.7	132	9.1	77
0.583	460	4.8	130	9.2	76
0.6	454	4.9	128	9.3	76
0.667	433	5	126	9.4	75
0.7	424	5.1	124	9.5	74
0.8	398	5.2	122	9.6	74
0.9	376	5.3	120	9.7	73
1	356	5.4	119	9.8	72
1.1	339	5.5	117	9.9	72
1.2	323	5.6	115	10	71
1.3	309	5.7	114		
1.4	296	5.8	112		
1.5	285	5.9	111		
1.6	274	6	109		
1.7	264	6.1	108		
1.8	255	6.2	106		
1.9	247	6.3	105		
2	239	6.4	104		
2.1	232	6.5	102		
2.2	225	6.6	101		
2.3	219	6.7	100		
2.4	213	6.8	99		
2.5	207	6.9	98		
2.6	202	7	96		

**INSTRUCTIONS:**

1. In BMP Column, click on Blue Cell to Activate Drop Down Menu
2. Select BMP from Drop Down Menu
3. After BMP is selected, TSS Removal and other Columns are automatically completed.

**Location:** #353 Broadway Lynnfield, MA

BMP <sup>1</sup>	TSS Removal Rate <sup>1</sup>	Starting TSS Load*	Amount Removed (C*D)	Remaining Load (D-E)
Deep Sump and Hooded Catch Basin	0.25	1.00	0.25	0.75
Proprietary Treatment Practice	0.77	0.75	0.58	0.17
	0.00	0.17	0.00	0.17
	0.00	0.17	0.00	0.17
	0.00	0.17	0.00	0.17

**Total TSS Removal =**

LYF-0347C
EBL
2-Jan-22

**Project:**  
**Prepared By:**  
**Date:**

\*Equals remaining load from previous BMP (E)  
which enters the BMP

Non-automated TSS Calculation Sheet  
must be used if Proprietary BMP Proposed  
1. From MassDEP Stormwater Handbook Vol. 1



**Commonwealth of Massachusetts  
City/Town of LYNUFFIELD  
FORM 11 - Soil Suitability**

#### A. Facility Information

KELLY AUTOMOTIVE GROUP  
155 ANDOVER STREET  
DAVVERS  
Owner Name \_\_\_\_\_  
Street Address \_\_\_\_\_  
Ma \_\_\_\_\_  
Ohio \_\_\_\_\_

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5

Site Information

- | Soil Name   | Description of Geologic Map Unit             | Soil Limitations   | Source  | Soil Map Unit |
|---|--|--|---|---------------|
| <u>MERRIMACK-URBAN LAND</u>   |  | <u>Glaucophane Deposits</u>                              |   | <u>626B</u>   |
| Soil Parent material  | 4. Flood Rate Insurance Map                  | Within a regulatory floodway?                            | <input type="checkbox"/> Yes <input type="checkbox"/> No              | Wetland Type  |
| Surficial Geological Report Available?                              | 5. Within a velocity zone?                   | <input type="checkbox"/> Yes <input type="checkbox"/> No | If yes, MassGIS Wetland Data Layer:                                   |               |
| <input checked="" type="checkbox"/> New Construction                | 6. Within a Mapped Wetland Area?             | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Normal <input type="checkbox"/> Below Normal |               |
| <input type="checkbox"/> Soil Survey Available?                     | 7. Current Water Resource Conditions (USGS): |  | Range: <input type="checkbox"/> Above Normal<br>Month/Day/ Year       |               |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |  |   |               |
| If yes:   | Year Published/Source                        | Map Unit   |   |               |
| If yes:   |  |  |   |               |
|   |  |  |   |               |



## Form 11 - Soil Suitability Assessment

### F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

Signature of Soil Evaluator

Gordon Rogerson SE 2014

Typed or Printed Name of Soil Evaluator / License #

Name of Approving Authority / Witness

Dec 21, 2021

Date

June 30, 2022

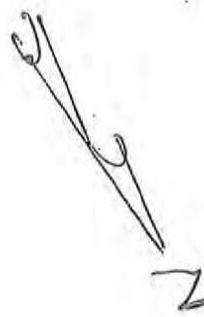
Expiration Date of License

Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with Percolation Test Form 12.

Field Diagrams: Use this area for field diagrams:

PROP. BLDG  
45' x 140'



40'

Summit

35'

Summit



Form 11 - Soil Suitability Assessment

### C. On-Site Review

#### Additional Notes:



City/Town of Lynnfield  
Form 11 - Soil Suitability Assessment

C. On-Site Review

Deep Observation Hole Number: Summer-2 Date 12-21-21

Hole # None

Construction Site  
(e.g., woodland, agricultural field, vacant lot, etc.)

Vegetation

Surface Stones (e.g., cobbles, stones, boulders, etc.)

Drainage Way \_\_\_\_\_ feet

Latitude: N 42° 15'

Drinking Water Well \_\_\_\_\_ feet

Longitude: A

Other \_\_\_\_\_ feet

Slope (%)

Position on Landscape (SU, SH, BS, FS, TS)

Wetlands ✓ 100 feet

Other \_\_\_\_\_ feet

Outwash Terrace

Landform

Depth Standing Water in Hole 40

Bedrock

If Yes: 120 Depth Weeping from Pit

Fill Material  Weathered/Fractured Rock

Distances from:

Open Water Body 200 feet

Property Line \_\_\_\_\_ feet

If Yes:  No  Disturbed Soil  Fill Material  Weathered/Fractured Rock  Bedrock

If Yes: 120 Depth Weeping from Pit

Groundwater Observed:  Yes  No

Soil Log

Coarse Fragments % by Volume

Redoximorphic Features

Soil Structure

Soil Consistency (Moist)

Other

Soil Matrix Color/Moist (Mudself)

Depth Color Percent

Gravel

Cobbles & Stones

Depth

Soil Texture (USDA)

Soil Horizon Layer

Depth (in)

Soil Matrix Color/Moist (Mudself)

Depth

Soil Texture (USDA)

Soil Horizon Layer

Depth (in)

Soil Matrix Color/Moist (Mudself)

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Soil Horizon Layer

Depth (in)

Soil Matrix Color/Moist (Mudself)

Depth

Soil Texture (USDA)

Soil Horizon Layer

Depth (in)



## Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

### D. Determination of High Groundwater Elevation

1. Method Used:

- Depth observed standing water in observation hole
- Depth weeping from side of observation hole
- Depth to soil redoximorphic features (mottles)
- Depth to adjusted seasonal high groundwater ( $S_h$ ) (USGS methodology)

Obs. Hole # 1      Obs. Hole # 2  
160 inches      140 inches  
105 inches      120 inches  
105 inches      110 inches  
                      inches

Reading Date

Index Well Number

$$S_h = S_c - [S_r \times (OW_e - OW_{max})/OW_f]$$

Obs. Hole/Well#   

$S_c$    

$OW_e$    

$S_h$    

$OW_{max}$    

$OW_f$    

2. Estimated Depth to High Groundwater:    inches

### E. Depth of Pervious Material

1. Depth of Naturally Occurring Pervious Material

- a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?

Yes     No

- b. If yes, at what depth was it observed (exclude A and O Horizons)?  
Upper boundary:    inches      Lower boundary:    inches
- c. If no, at what depth was impervious material observed?  
Upper boundary:    inches      Lower boundary:    inches



Commonwealth of Massachusetts  
City/Town of LYNNFIELD

Form 11 - Soil Suitability Assessment

A. Facility Information

KELLY AUTOMOTIVE GROUP  
155 ANDOVER STREET  
DAUVERS

Owner Name  
Street Address  
City

Map/Lot #  
01923  
Zip Code

603 Sullum Street  
Wellesfield, MA 01841  
T: (781) 246-2323  
F: (781) 246-2755  
Email: [lynnfield@hayeseng.com](mailto:lynnfield@hayeseng.com)

Land Planning  
Environmental Engineering

Hayes Engineering, Inc.

B. Site Information

1. (Check one)  New Construction       Upgrade       Repair  
If yes:  
MERRIMAC-URBAN LAND      Soil Limitations  
SACROFLUVIAL Deposits      Landform  
Soil Parent material  
Official Geological Report Available?  Yes  No  
If yes:  
Year Published/Source      Map Unit
  
2. Soil Survey Available?  Yes  No  
If yes:  
Outwash TERRACE
  
3. Description of Geologic Map Unit  
Within a regulatory floodway?  Yes  No
  
4. Flood Rate Insurance Map
  
5. Within a velocity zone?  Yes  No
  
6. Within a Mapped Wetland Area?  Yes  No
  
7. Current Water Resource Conditions (USGS):  
Month/Day/ Year : \_\_\_\_\_
  
8. Other references reviewed:

If yes, MassGIS Wetland Data Layer:  
Wetland Type:  Normal  Below Normal  
Range:  Above Normal  Normal  Below Normal



## Form 11 - Soil Suitability Assessment

### F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify 15.107.

Name of Soil Evaluator

Gordon Rogerson SE 2014

Typed or Printed Name of Soil Evaluator / License #

Name of Approving Authority Witness

Dec 21, 2021

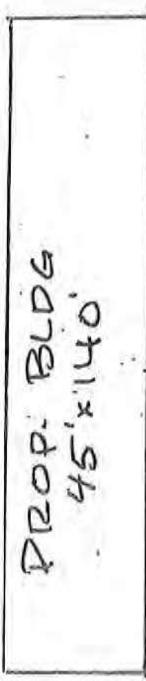
Date

June 30, 2022  
Expiration Date of License

Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with Percolation Test Form 12.

Field Diagrams: Use this area for field diagrams:



40'

Summ<sup>er</sup> 2

35±

Summ<sup>er</sup> 1



## Form 11 - Soil Suitability Assessment

C. On-Site Review

#### **Additional Notes:**





## Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

### D. Determination of High Groundwater Elevation

#### 1. Method Used:

- Depth observed standing water in observation hole \_\_\_\_\_ inches
- Depth weeping from side of observation hole \_\_\_\_\_ inches
- Depth to soil redoximorphic features (mottles) \_\_\_\_\_ inches
- Depth to adjusted seasonal high groundwater ( $S_h$ ) (USGS methodology) \_\_\_\_\_ inches

Obs. Hole # 1 Obs. Hole # 2

160 inches

108 inches

108 inches

\_\_\_\_\_ inches

Obs. Hole # 1 Obs. Hole # 2

140 inches

120 inches

110 inches

\_\_\_\_\_ inches

Reading Date

$$S_h = S_c - [S_r \times (OW_c - OW_{max}) / OW_r]$$

Obs. Hole/Well# \_\_\_\_\_

$S_c$  \_\_\_\_\_

$S_r$  \_\_\_\_\_

$OW_c$  \_\_\_\_\_  $OW_{max}$  \_\_\_\_\_  $OW_r$  \_\_\_\_\_  $S_h$  \_\_\_\_\_

2. Estimated Depth to High Groundwater: \_\_\_\_\_ inches

### E. Depth of Pervious Material

#### 1. Depth of Naturally Occurring Pervious Material

- a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil system?

Yes  No

b. If yes, at what depth was it observed (exclude A and O-Horizons)? \_\_\_\_\_ inches

c. If no, at what depth was impervious material observed? \_\_\_\_\_ inches

Lower boundary: \_\_\_\_\_ inches

Lower boundary: \_\_\_\_\_ inches

Lower boundary: \_\_\_\_\_ inches

Lower boundary: \_\_\_\_\_ inches

**LONG-TERM POLLUTION PREVENTION PLAN  
#353 BROADWAY  
LYNNFIELD, MASSACHUSETTS**

**The Long-Term Pollution Prevention Plan (to be implemented and maintained by Kelly Automotive Group, owner of #353 Broadway:**

- Good housekeeping practices: Pollutant runoff from the project will be controlled through the use of erosion controls.
- Provisions for storing materials and waste products inside or under cover: All materials stored on site shall be stored in a neat and orderly fashion in their appropriate containers and, if possible, under a roof or other secure enclosure. Waste products shall be placed in secure receptacles until they are emptied by a licensed solid waste management company in Massachusetts.
- Vehicle washing controls: Vehicle washing is prohibited on the site
- Requirements for routine inspections and maintenance of stormwater BMPs: Follow the guidelines outlined above.
- Spill prevention and response plans:

Prevention: All materials stored on site shall be stored in a neat and orderly fashion in their appropriate containers and, if possible, under a roof or other secure enclosure. Products should be kept in their original containers with the original manufacturer's label. Products should not be mixed with one another unless recommended by the manufacturer. If possible, all of the product should be used up before disposing of the container. The Manufacturer's recommendations for proper use and disposal should be followed.

Response: Manufacturer's recommended methods for cleanup shall be followed. Spills must be cleaned up immediately after discovery. The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance. Spills of toxic or hazardous material shall be reported to the appropriate State and/or local authority in accordance with local and/or State regulations.

- Provisions for maintenance of lawns, gardens, and other landscaped areas: These activities shall be left up to the owner and designated property manager (if any) to schedule and perform.
- Requirements for storage and use of fertilizers, herbicides, and pesticides (Should any questions arise about these materials, the Order of Conditions for this project should be consulted):

Fertilizers: Fertilizers shall be applied in the minimum amounts recommended by the manufacturer. Once applied, fertilizers shall be worked into the soil to limit exposure to stormwater. Storage shall be stored under a roof or other secure enclosure. The

contents of any partially used bags of fertilizers shall be transferred to a sealable plastic bag or bin to avoid spills.

Herbicides and Pesticides: Store herbicides and pesticides in original containers that are closed and labeled, in a secure area out of reach of children and pets. Avoid storing in damp areas where containers may become moist or rusty. Herbicides and Pesticides should not be stored near food. Follow the label instructions strictly about where and how much to apply. Do not put herbicides and pesticides in the trash or down the drain. Use rubber gloves when handling and use an appropriate cartridge mask if using products extensively.

- Pet waste management provisions: Not applicable to this project.
- Provisions for operation and management of septic systems: Not applicable to this project.
- Provisions for solid waste management: Waste products must be placed in secure receptacles until they are emptied by a licensed solid waste management company in Massachusetts.
- Snow disposal and plowing plans relative to Wetland Resource Areas: Snow disposal should be in accordance with the Bureau of Resource Protection Snow Disposal Guidelines, Guideline No. BRPG01-01 effective March 8, 2001 and as depicted on the project plan.
- Winter Road Salt and/or Sand Use and Storage restrictions:

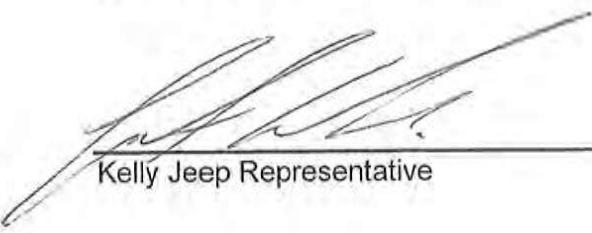
Road Salt: Road salt shall not be used on this site due to close proximity to Hawkes Brook.

Sand: Environmentally friendly alternatives, i.e. sand) for melting ice must be used instead of salt.

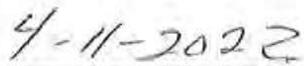
- Street sweeping schedules: Street / parking lot sweeping is not proposed for maintenance.
- Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from land uses with higher potential pollutant loads (LUHPPL): Spill control kit, including adequate amount of "Silt Sock" sufficient to block the inlet of the oil & grit separator will be provided and maintained on site.
- Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan: The responsibility lies with the property owner and manager.
- List of Emergency contacts for implementing Long-Term Pollution Prevention Plan: The responsibility lies with the owner and facility manager.

#### **Standard #10: Illicit Discharge Statement**

**There are no proposed illicit discharges to the proposed stormwater management systems, as verified by the attached Hayes Engineering, Inc. site plan set for #353 Broadway, dated October 5, 2020 revised through January 1, 2022.** Upon review of said plans, it is evident that there are no entries of illicit discharges into the stormwater management system. By definition, an illicit discharge does not include discharges from the following activities or facilities: firefighting, water line flushing, landscape irrigation, uncontaminated groundwater, potable water sources, foundation drains, air conditioning condensation, footing drains, individual resident car washing, flows from riparian habitats and wetlands, dechlorinated water from swimming pools, water used for street washing and water used to clean residential buildings without detergents Kelly Automotive Group, the stormwater management system manager, shall be responsible for verifying that there are no illicit discharges to the stormwater management system (discharges of water into the system other than stormwater) after the system has been constructed.



Kelly Jeep Representative



Date

Stormwater Pollution Prevention Plan (SWPPP)  
KELLY JEEP – PHASE 2  
Parking and Vehicle Storage  
353 Broadway, Lynnfield, Massachusetts

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**Stormwater Pollution Prevention Plan (SWPPP)**

**For Construction Activities At:**

Kelly Jeep – Phase 2: Parking and Vehicle Storage  
353 Broadway  
Lynnfield, Massachusetts 01940  
978.774.1000

**SWPPP Prepared For:**

Construction Source Management  
Robby Craig  
33 Commercial Street  
Raynham, MA 02767  
781.241.2646  
[rcraig@constructionsource.com](mailto:rcraig@constructionsource.com)

**SWPPP Prepared By:**

Hayes Engineering, Inc.  
Anthony M. Capachietti, PE  
603 Salem Street  
Wakefield, MA 01880  
781.246.2800  
[tcapachietti@hayeseng.com](mailto:tcapachietti@hayeseng.com)

**SWPPP Preparation Date:**

04/07/2022

**Estimated Project Dates:**

**Project Start Date:** 04/08/2022

**Project Completion Date:** 12/31/2022

## Appendix

- I. Stormceptor Calculations
- II. TSS Removal Calculations
- III. Test Hole Logs
- IV. Long Term Pollution Prevention plan
- V. Illicit Discharge Statement
- VI. SWPPP (Available on request)





Prepared For:

By:



LYNNFIELD, MASS.  
#353 BROADWAY  
KELLY JEEP-PHASE 2

SHEET 30



*BROADWAY - NEWBURYPORT TURNPIKE - ROUTE ONE*

**DETAIL SHEET** #353 BROADWAY PHASE 2 KELLY JEEP - LYNFIELD, MASS.