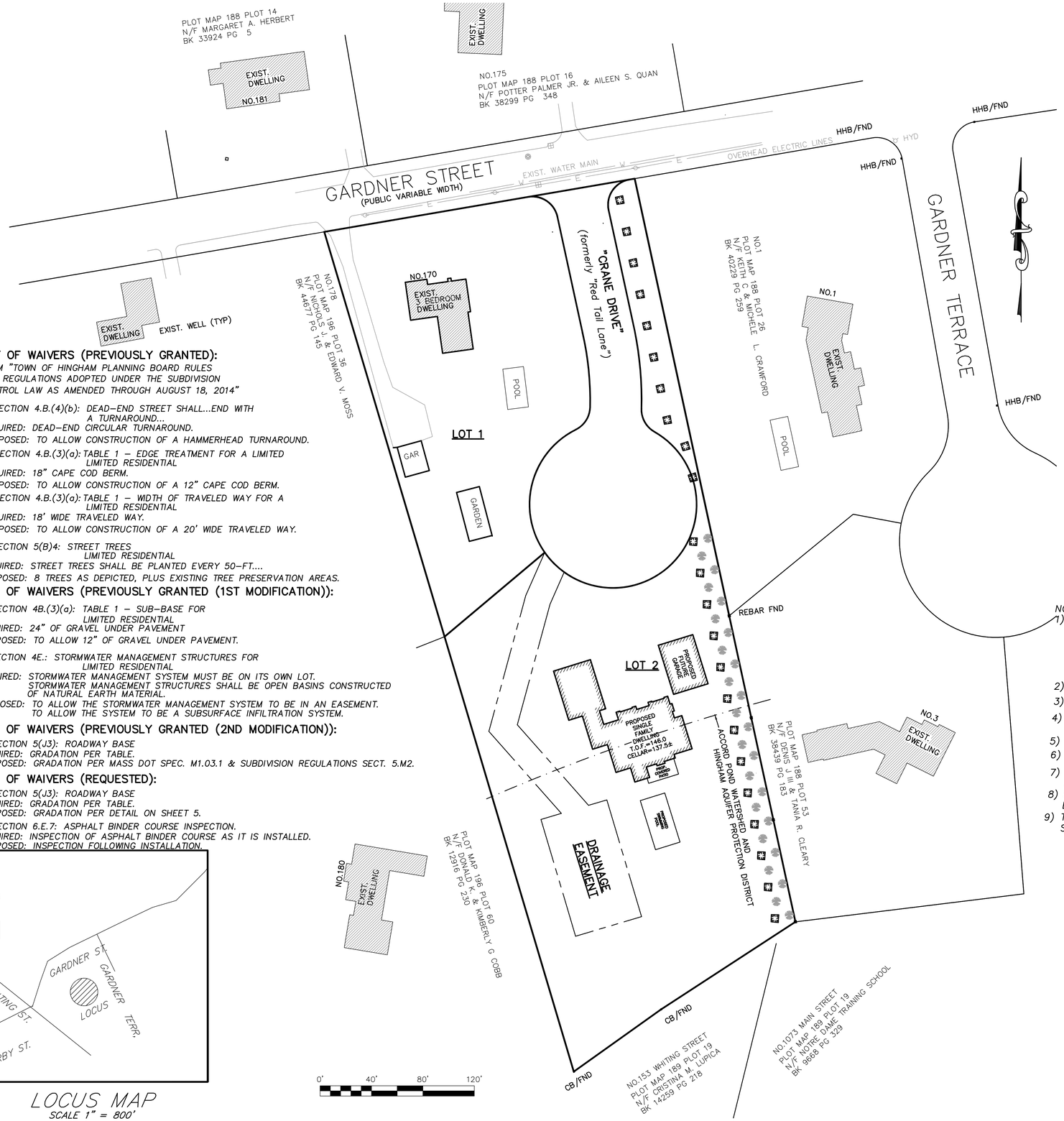


LIST OF WAIVERS (PREVIOUSLY GRANTED):

FROM "TOWN OF HINGHAM PLANNING BOARD RULES AND REGULATIONS ADOPTED UNDER THE SUBDIVISION CONTROL LAW AS AMENDED THROUGH AUGUST 18, 2014"

1. SECTION 4.B.(4)(b): DEAD–END STREET SHALL...END WITH A TURNAROUND...
   REQUIRED: DEAD–END CIRCULAR TURNAROUND.
   PROPOSED: TO ALLOW CONSTRUCTION OF A HAMMERHEAD TURNAROUND.
2. SECTION 4.B.(3)(a): TABLE 1 – EDGE TREATMENT FOR A LIMITED RESIDENTIAL
   REQUIRED: 18" CAPE COD BERM.
   PROPOSED: TO ALLOW CONSTRUCTION OF A 12" CAPE COD BERM.
3. SECTION 4.B.(3)(a): TABLE 1 – WIDTH OF TRAVELED WAY FOR A LIMITED RESIDENTIAL
   REQUIRED: 18' WIDE TRAVELED WAY.
   PROPOSED: TO ALLOW CONSTRUCTION OF A 20' WIDE TRAVELED WAY.
4. SECTION 5(B)4: STREET TREES LIMITED RESIDENTIAL
   REQUIRED: STREET TREES SHALL BE PLANTED EVERY 50–FT....
   PROPOSED: 8 TREES AS DEPICTED, PLUS EXISTING TREE PRESERVATION AREAS.

LIST OF WAIVERS (PREVIOUSLY GRANTED (1ST MODIFICATION)):

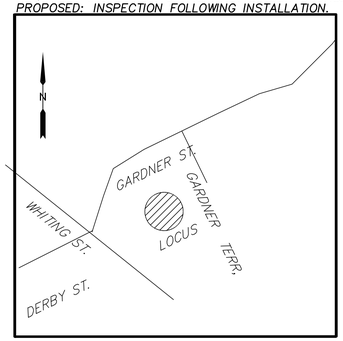
5. SECTION 4B.(3)(a): TABLE 1 – SUB–BASE FOR LIMITED RESIDENTIAL
   REQUIRED: 24" OF GRAVEL UNDER PAVEMENT
   PROPOSED: TO ALLOW 12" OF GRAVEL UNDER PAVEMENT.
6. SECTION 4E.: STORMWATER MANAGEMENT STRUCTURES FOR LIMITED RESIDENTIAL
   REQUIRED: STORMWATER MANAGEMENT SYSTEM MUST BE ON ITS OWN LOT. STORMWATER MANAGEMENT STRUCTURES SHALL BE OPEN BASINS CONSTRUCTED OF NATURAL EARTH MATERIAL.
   PROPOSED: TO ALLOW THE STORMWATER MANAGEMENT SYSTEM TO BE IN AN EASEMENT. TO ALLOW THE SYSTEM TO BE A SUBSURFACE INFILTRATION SYSTEM.

LIST OF WAIVERS (PREVIOUSLY GRANTED (2ND MODIFICATION)):

7. SECTION 5(J3): ROADWAY BASE
   REQUIRED: GRADATION PER TABLE.
   PROPOSED: GRADATION PER MASS DOT SPEC. M1.03.1 & SUBDIVISION REGULATIONS SECT. 5.M2.

LIST OF WAIVERS (REQUESTED):

8. SECTION 5(J3): ROADWAY BASE
   REQUIRED: GRADATION PER TABLE.
   PROPOSED: GRADATION PER DETAIL ON SHEET 5.
9. SECTION 6.E.7: ASPHALT BINDER COURSE INSPECTION.
   REQUIRED: INSPECTION OF ASPHALT BINDER COURSE AS IT IS INSTALLED.
   PROPOSED: INSPECTION FOLLOWING INSTALLATION.



LOCUS MAP
SCALE 1" = 800'

FOR REGISTRY OF DEEDS USE ONLY

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE REGISTERS OF DEEDS.

Douglas J. Aaberg — 10/7/2020
PROFESSIONAL LAND SURVEYOR — DATE

COMMONWEALTH OF MASSACHUSETTS — DOUGLAS J. AABERG 35382 — PROFESSIONAL LAND SURVEYOR

INDEX TO DRAWINGS:

PLAN	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	LOT LAYOUT PLAN
4	GRADING & UTILITIES PLAN
5	CONSTRUCTION DETAILS I
6	CONSTRUCTION DETAILS II
7	CONSTRUCTION DETAILS III

I DO HEREBY CERTIFY THAT THE SUBDIVISION AS SHOWN HEREON CONFORMS WITH THE TOWN OF HINGHAM PLANNING BOARD SUBDIVISION RULES & REGULATIONS EXCEPT FOR THE WAIVERS AS REQUESTED.

Gregory J. Morse — 10/7/2020
GREGORY J. MORSE, P.E. — DATE

COMMONWEALTH OF MASSACHUSETTS — GREGORY J. MORSE CIVIL No.47105 REGISTERED PROFESSIONAL ENGINEER

NOTE:
1) LOCUS IS IN ZONE RESIDENCE B
   MINIMUM FRONTAGE 150.00'
   MINIMUM LOT SIZE 30,000 S.F.
   FRONT YARD SETBACK 35.00'
   REAR YARD SETBACK 20.00'
   SIDE YARD SETBACK 20.00'
2) LOCUS IS A SUBDIVISION OF MAP 188 PLOT 29
3) LOCUS TITLE REFERENCE DEED BOOK 50698 PAGE 247
4) LOCUS IS LOCATED IN ZONE X (AREAS OF MINIMAL FLOODING) AS DELINEATED ON FEMA FIRM COMMUNITY PANEL NUMBER 25023C0092J DATED JULY 17, 2012
5) ALL TREE STUMPS TO BE DISPOSED OF OFFSITE.
6) EXISTING DISPOSAL SYSTEM LOCATIONS HAVE BEEN PLOTTED FROM RECORD INFORMATION
7) ALL WORK MUST BE CONSTRUCTED IN COMPLIANCE WITH THE PLANNING BOARD RULES & REGULATIONS AS AMENDED THROUGH AUGUST 18, 2014, EXCEPT AS WAIVED HEREIN.
8) PRIOR TO START OF CONSTRUCTION THE LIMITS OF THE SITE CLEARING SHALL BE CLEARLY STAKED AND THE EROSION CONTROL DEVICES MUST BE INSTALLED AND INSPECTED BY THE TOWN PLANNER OR HER DESIGNEE.
9) THE OWNER DOES NOT OWN OR CONTROL ANY CONTIGUOUS DEVELOPABLE LAND AND NO POSSIBLE CONNECTING STREET LAYOUT.

I certify that 20 days have elapsed since Planning Board approval and that no appeal has been filed in this office.

_____ _____
Date — Hingham Town Clerk

Approved _____ , subject to covenant conditions set forth in a covenant executed by Hingham Planning Brd. dated _____ , and to be recorded herewith.

Date Submitted: _____
Date Approved: _____

_____
Hingham Planning Board

Date Submitted: _____
Date Approved: _____

_____
Hingham Board of Health

This subdivision is subject to the conditions in the certificate of action dated 10/1/18, recorded in Book 50522 Page 269.
and the modification dated 6/3/19, recorded in Book 51510 Page 77.
and the 2nd modification dated 7/14/2020. recorded in Book ____ Page ____.
and the 3rd modification dated _____. recorded in Book ____ Page ____.

COVER SHEET

DEFINITIVE SUBDIVISION MODIFICATION PLAN
PLAN OF LAND
"CRANE DRIVE" formerly "RED TAIL LANE"
HINGHAM, MASS.

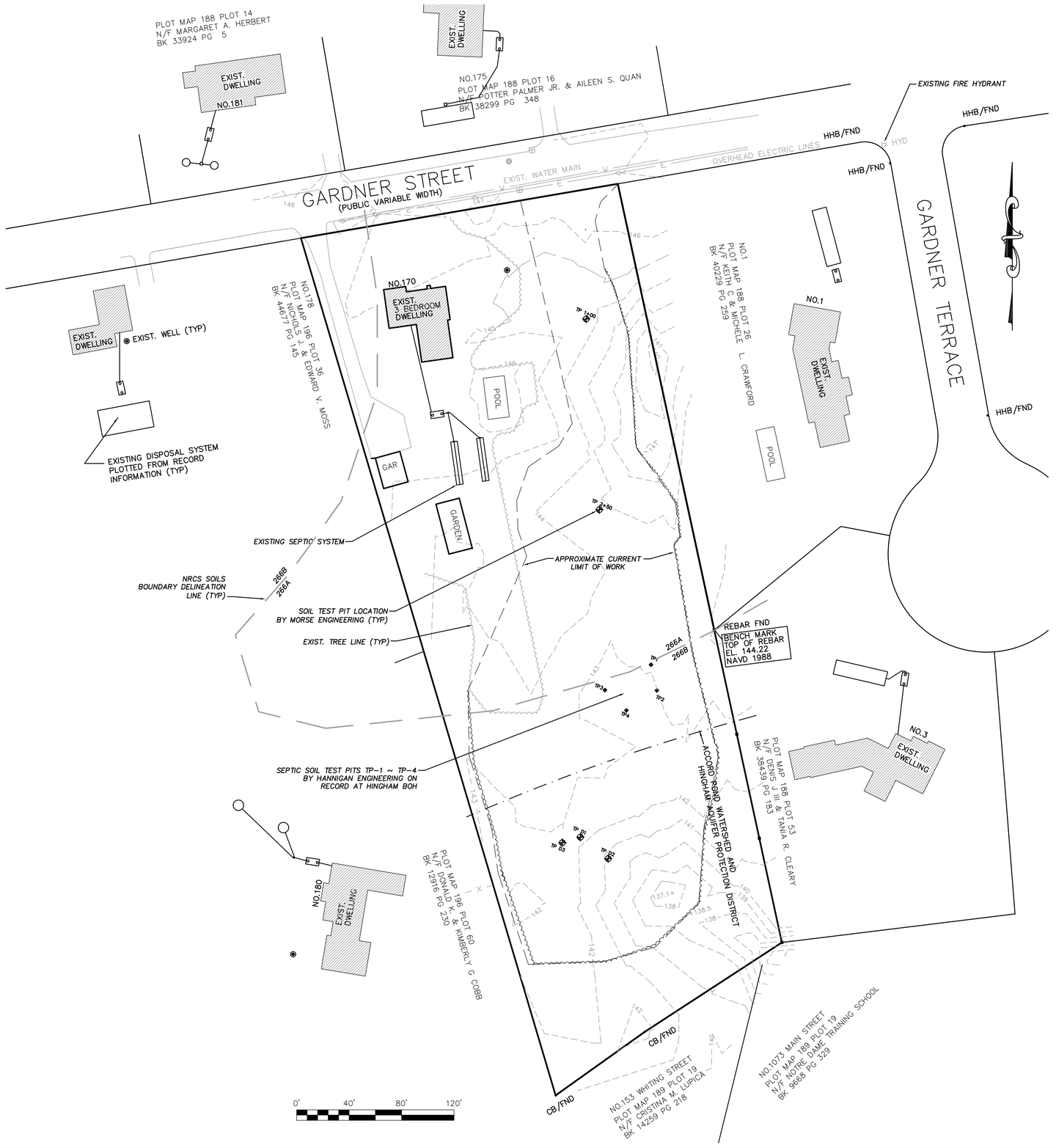
BEING A SUBDIVISION OF ASSESSORS MAP 188 PLOT 108

DATE: JULY 20, 2017, REVISED: NOV. 18, 2017, DEC. 12, 2017, DEC. 18, 2017, JUNE 21, 2018, JULY 26, 2018, AUGUST 20, 2018, OCTOBER 16, 2018
MODIFICATION PLAN DATE: 4/28/2019, 5/3/2019, 5/23/19, 6/11/19
2ND MODIFICATION PLAN DATE: 6/17/2020, 9/1/2020
3RD MODIFICATION PLAN DATE: 10/7/2020

OWNER/APPLICANT:
CHRISTOPHER SHAUGHNESSY
520 BODWELL STREET
AVON, MA 02322
DEED BOOK 50898, PAGE 247

SURVEYOR
KEEFE ASSOCIATES
281 SOUTH RIVER STREET
MARSHFIELD MA 02050
781–826–4688

CIVIL ENGINEER
MORSE ENGINEERING CO. INC
19 UNION STREET
P.O. BOX 92
SCITUATE MA 02066
781–545–0895



FOR REGISTRY OF DEEDS USE ONLY

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10/7/2020

PROFESSIONAL LAND SURVEYOR — DATE

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS L. AABERG
35382
PROFESSIONAL LAND SURVEYOR

NRCS SOIL LEGEND

UNIT	SERIES	HSG
266A	WARWICK – FINE SANDY LOAM	A
266B	WARWICK – FINE SANDY LOAM	A

FRIMPTER ADJUSTMENT

Use Duxbury Well No. 79 Comparison
Sc = 144" = 12.0' (TP-D2 Bottom of Hole)
Sr = 4.2 USGS (Frimpter) Report (range at 5%, Figure 12)
Owc = 7.77 Depth in Well No. 79 (June 5, 2018)
Ow max = 5.86 Current Conditions (Table 1) upper limit
Owr = Upper Limit of Annual Range = 4.11
Sh = Sc – Sr{(Owc–Ow max)/Owr}
Sh = 12.0 – 4.2{(7.77–5.86)/4.11} = 10.0' (Adjusted Water Level Below Grade TP-D2)
ESHGW = 140.9 – 10.0 = 130.9 (TP-D2)

SOIL TEST DATA (TP D2, D3, 1+00, 2+50)

SOIL TESTING AND EVALUATION BY: JAMES GARFIELD, DEP SE#14162
DATE: JUNE 5, 2018

TP-D2 — APPROX. GRADE EL. 140.9±

	A HORIZON LOAMY SAND 10YR 3/2	
EL. 140.2		8"
	B HORIZON LOAMY SAND 10YR 5/6	
EL. 138.8		25"
	C HORIZON COARSE SAND 2.5Y 5/4	
EL. 128.9		144"

WEEPING OBSERVED: NONE
MOTTLING OBSERVED: NONE
PERC. RATE: <2 MPI 36 – 54"

TP-D3 — APPROX. GRADE EL. 142.5±

	A HORIZON LOAMY SAND 10YR 3/2	
EL. 142.0		6"
	B HORIZON LOAMY SAND 10YR 5/6	
EL. 140.9		19"
	C HORIZON COARSE SAND 2.5Y 5/4	
EL. 130.5		144"

WEEPING OBSERVED: NONE
MOTTLING OBSERVED: NONE
PERC. RATE: <2 MPI 22 – 40"

TP-1+00 — APPROX. GRADE EL. 144.2±

	A HORIZON LOAMY SAND 10YR 3/2	
EL. 143.6		7"
	B HORIZON LOAMY SAND 10YR 5/6	
EL. 142.5		20"
	C HORIZON COARSE SAND 2.5Y 5/4	
EL. 132.2		144"

WEEPING OBSERVED: NONE
MOTTLING OBSERVED: NONE
PERC. RATE: 3 MPI 24 – 42"

TP-2+50 — APPROX. GRADE EL. 143.2±

	A HORIZON SANDY LOAM 10YR 3/2	
EL. 142.0		14"
	B HORIZON SANDY LOAM 10YR 5/6	
EL. 140.9		28"
	C1 HORIZON SANDY LOAM 2.5Y 5/4	
EL. 140.0		39"
	C2 HORIZON COARSE SAND 2.5Y 5/4	
EL. 131.2		144"

WEEPING OBSERVED: NONE
MOTTLING OBSERVED: NONE
PERC. RATE: <2 MPI 40 – 58"

I certify that 20 days have elapsed since Planning Board approval and that no appeal has been filed in this office.

Date _____ Hingham Town Clerk

Approved _____ , subject to covenant conditions set forth in a covenant executed by Hingham Planning Brd. dated _____ , and to be recorded herewith.

Date Submitted: _____
Date Approved: _____

Hingham Planning Board

Date Submitted: _____
Date Approved: _____

Hingham Board of Health

COMMONWEALTH OF MASSACHUSETTS
GREGORY J. MORSE
CIVIL
No.47105
REGISTERED PROFESSIONAL ENGINEER

OWNER/APPLICANT:
CHRISTOPHER SHAUGHNESSY
520 BODWELL STREET
AVON, MA 02322
DEED BOOK 50898, PAGE 247

EXISTING CONDITIONS PLAN

DEFINITIVE SUBDIVISION MODIFICATION PLAN
PLAN OF LAND
"CRANE DRIVE" formerly "RED TAIL LANE"
HINGHAM, MASS.
BEING A SUBDIVISION OF ASSESSORS MAP 188 PLOT 108

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KEEFE ASSOCIATES
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MARSHFIELD MA 02050
781-826-4688

CIVIL ENGINEER
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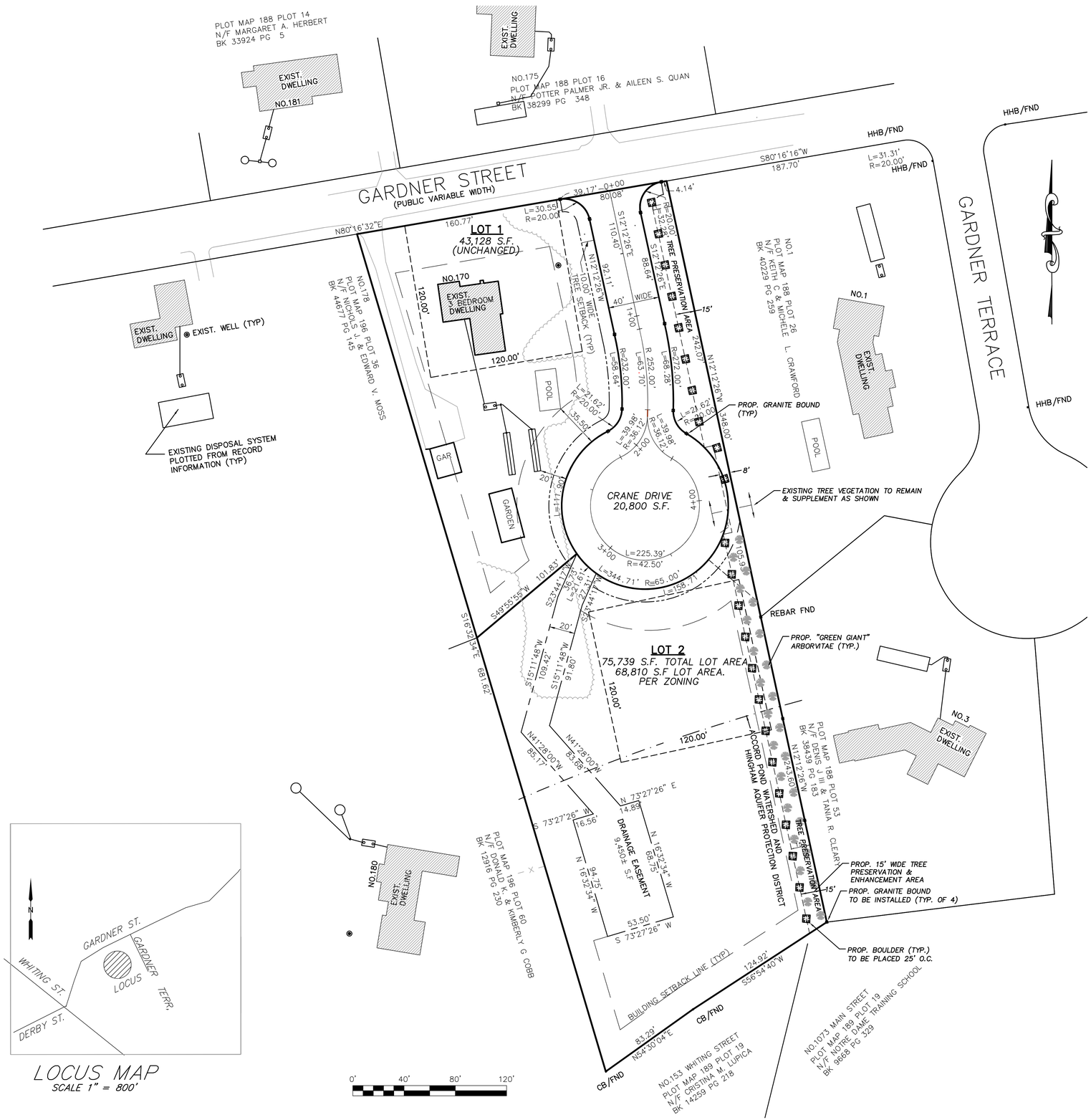

LOCUS MAP
SCALE 1" = 800'

FOR REGISTRY OF DEEDS USE ONLY

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE REGISTERS OF DEEDS.

Douglas L Aaberg 10/7/2020
PROFESSIONAL LAND SURVEYOR DATE

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS L. AABERG
35382
PROFESSIONAL LAND SURVEYOR

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Hingham Planning Board

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Hingham Board of Health

NOTE:
1) LOCUS IS IN ZONE RESIDENCE B
MINIMUM FRONTAGE 150.00'
MINIMUM LOT SIZE 30,000 S.F.
FRONT YARD SETBACK 35.00'
REAR YARD SETBACK 20.00'
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COMMONWEALTH OF MASSACHUSETTS
GREGORY J. MORSE
CIVIL
No. 47105
REGISTERED PROFESSIONAL ENGINEER

LOT LAYOUT PLAN

DEFINITIVE SUBDIVISION MODIFICATION PLAN
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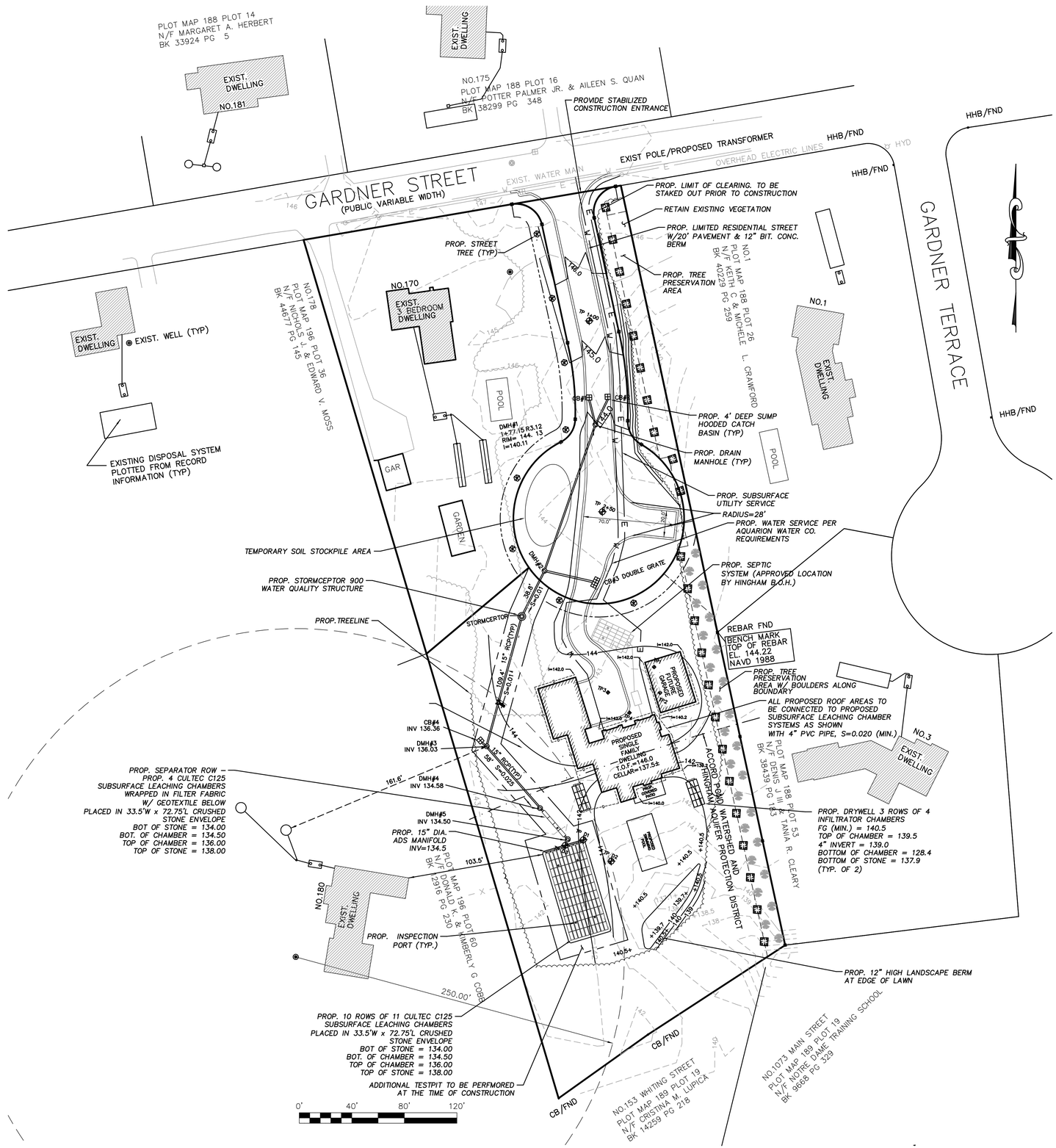

FOR REGISTRY OF DEEDS USE ONLY

PROPOSED DRAINS

CATCH BASIN #1 DATA
Station 1+56.25
Offset 9.0' Right
Rim Elev 144.43
Inv 140.33

CATCH BASIN #2 DATA
Station 1+56.25
Offset 9.0' LEFT
Rim Elev 144.43
Inv Out 140.33

DMH #1
Station 1+77.15
Offset 3.1' RIGHT
Rim Elev 144.13
Inv 140.11

CATCH BASIN #3 DATA
Station 3+28.71
Offset 12.5' RIGHT
Rim Elev 142.06
Inv Out 138.46

DMH #2
Station 2+92.77
Offset 19.2' RIGHT
Rim Elev 143.0
Inv 138.02 IN
Inv 137.77 OUT

STORMCEPTOR
Rim Elev 144.50
Inv IN 137.63
Inv OUT 137.13

CATCH BASIN #4 DATA
Rim Elev 143.5
Inv Out 136.36

DMH #3
Rim Elev 143.5
Inv 12" IN 136.28
Inv 15" IN 136.03
Inv 15" OUT 136.03

DMH #4
Rim Elev 142.7
Inv 134.58

DMH #5
Rim Elev 142.5
Inv 134.50

PIPE DATA
Material RCP
Class IV
Size 12"
Length 19.2'
Slope 0.01

PIPE DATA
Material RCP
Class IV
Size 12"
Length 21.4'
Slope 0.01

PIPE DATA
Material RCP
Class IV
Size 12"Length 117.8'
Slope 0.018

PIPE DATA
Material RCP
Class IV
Size 12"
Length 43.6'

PIPE DATA
Material RCP
Class IV
Size 15"Length 38.8'
Slope 0.01

PIPE DATA
Material RCP
Class IV
Size 15"Length 109.4'
Slope 0.01

PIPE DATA
Material RCP
Class IV
Size 12" Length 4'
Slope 0.02

PIPE DATA
Material RCP
Class IV
Size 15" Length 58'
Slope 0.025

PIPE DATA
Material RCP
Class IV
Size 15" Length 2'
Slope 0.04

PIPE DATA
Material RCP
Class IV
Size 15" Length 2'
Slope 0.00

I certify that 20 days have elapsed since Planning Board approval and that no appeal has been filed in this office.

_____ _____
Date *Hingham Town Clerk*

Approved_____ , subject to covenant conditions set forth in a covenant executed by Hingham Planning Brd. dated_____ , and to be recorded herewith.

Date Submitted:_____

Date Approved:_____

Hingham Planning Board

Date Submitted:_____

Date Approved:_____

Hingham Board of Health

NOTE:
PROPOSED DWELLING AND DISPOSAL SYSTEMS ARE SCHEMATIC ONLY ACTUAL LOCATIONS ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE TOWN OF HINGHAM BOARD OF HEALTH, BUILDING DEPARTMENT AND CONSERVATION COMMISSION AND ANY OTHER AGENCIES PUBLIC OR PRIVATE HAVING JURISDICTION OVER CONSTRUCTION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE REGISTERS OF DEEDS.

Douglas J Aaberg 10/7/2020
PROFESSIONAL LAND SURVEYOR *DATE*

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. AABERG
35382
REGISTERED PROFESSIONAL LAND SURVEYOR

NOTE:
BEFORE EXCAVATING, BLASTING INSTALLING BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC OR PRIVATE MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN . SEE CHAPTER 370 , ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN . BEFORE PLANNING FUTURE CONNECTIONS THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPT. MUST BE CONSULTED.

CONTACT DIG SAFE 811 (digsafe.com)

COMMONWEALTH OF MASSACHUSETTS
GREGORY J. MORSE
CIVIL
No.47105
REGISTERED PROFESSIONAL ENGINEER

Gregory J Morse

OWNER/APPLICANT:
CHRISTOPHER SHAUGHNESSY
520 BODWELL STREET
AVON, MA 02322
DEED BOOK 50898, PAGE 247

GRADING & UTILITIES PLAN

DEFINITIVE SUBDIVISION MODIFICATION PLAN
PLAN OF LAND

"CRANE DRIVE" formerly "RED TAIL LANE"

HINGHAM, MASS.

BEING A SUBDIVISION OF ASSESSORS MAP 188 PLOT 108

DATE: JULY 20, 2017, REVISED: NOV. 18, 2017, DEC. 12, 2017, DEC. 18, 2017, JUNE 21, 2018, JULY 26, 2018, AUGUST 20, 2018, OCTOBER 16, 2018
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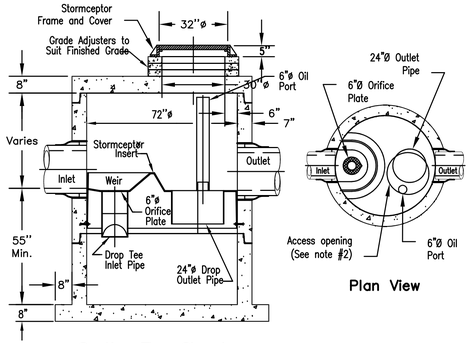


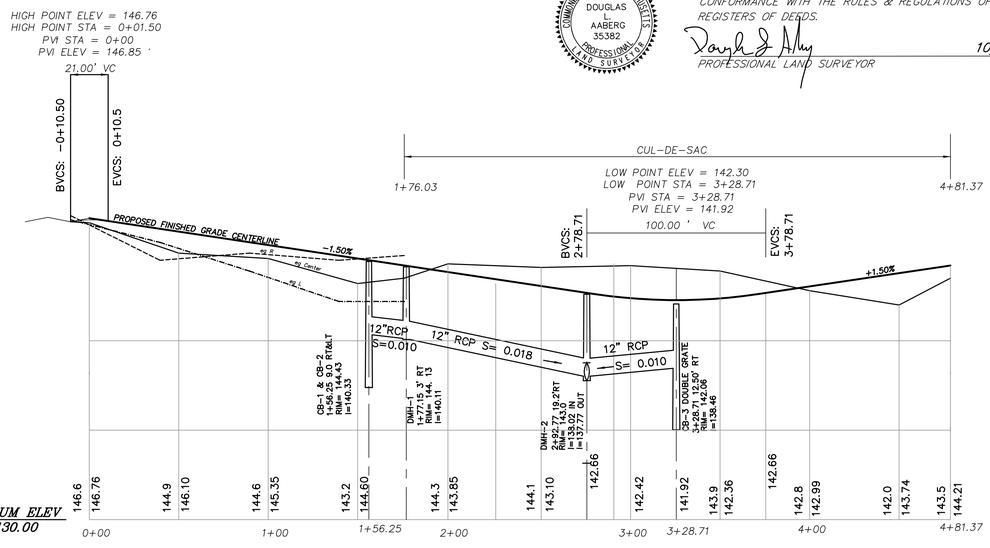
Section Thru Chamber

STORMCEPTOR STC-900 DETAIL

not to scale

Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.



PROFILE

1" = 40' HORIZ.. – 1" = 4'0" VERT.

0' 40' 80' 120'

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE REGISTERS OF DEEDS.

DOUGLAS L AABERG 35382 COMMONWEALTH OF MASSACHUSETTS PROFESSIONAL LAND SURVEYOR

PROFESSIONAL LAND SURVEYOR — 10/7/2020 DATE

FOR REGISTRY OF DEEDS USE ONLY

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Date — Hingham Town Clerk

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Date Submitted:_____

Date Approved:_____

Hingham Planning Board

Date Submitted:_____

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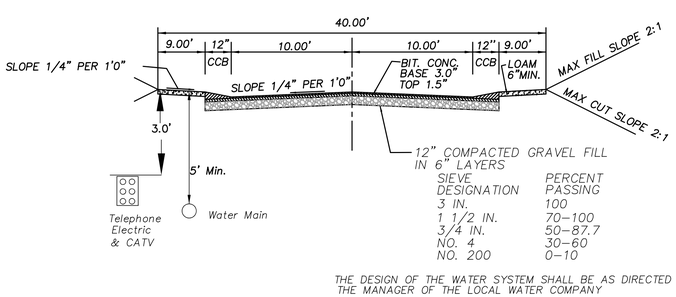
Hingham Board of Health

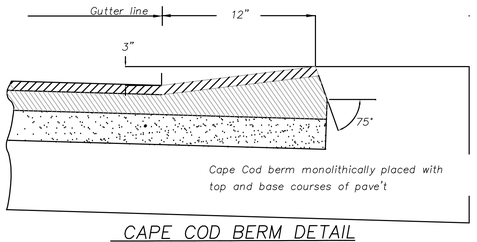


SIEVE DESIGNATION	PERCENT PASSING
3 IN.	100
1 1/2 IN.	70–100
3/4 IN.	50–87.7
NO. 4	30–60
NO. 200	0–10

THE DESIGN OF THE WATER SYSTEM SHALL BE AS DIRECTED THE MANAGER OF THE LOCAL WATER COMPANY

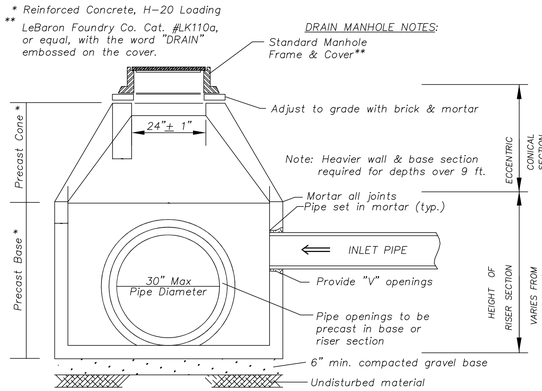
TYPICAL ROAD CROSS SECTION

NOT TO SCALE



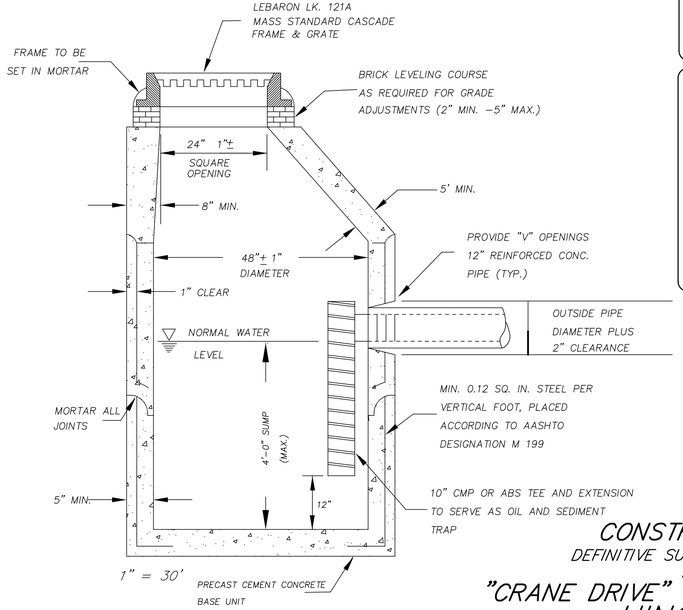
CAPE COD BERM DETAIL

NOT TO SCALE



PRECAST DRAIN MANHOLE

not to scale



PRECAST CONCRETE CATCH BASIN

NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS GREGORY J. MORSE CIVIL No.47105 REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION DETAILS I

DEFINITIVE SUBDIVISION MODIFICATION PLAN

PLAN OF LAND

"CRANE DRIVE" formerly "RED TAIL LANE"

HINGHAM, MASS.

BEING A SUBDIVISION OF ASSESSORS MAP 188 PLOT 108

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OWNER/APPLICANT:
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520 BODWELL STREET
AVON, MA 02322
DEED BOOK 50898, PAGE 247

SURVEYOR
KEEFE ASSOCIATES
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MARSHFIELD MA 02050
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CIVIL ENGINEER
MORSE ENGINEERING CO. INC
19 UNION STREET
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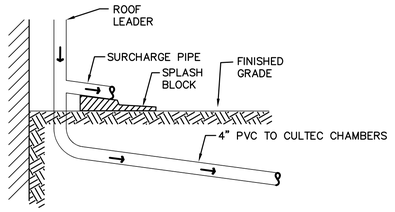
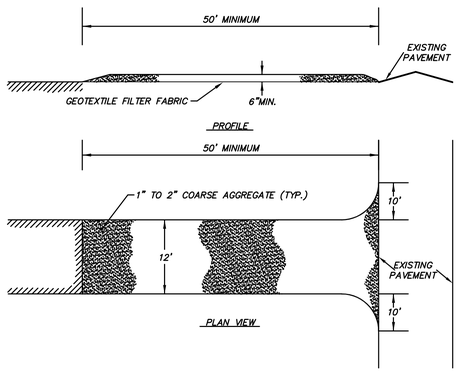


ROOF LEADER SURCHARGE PIPE

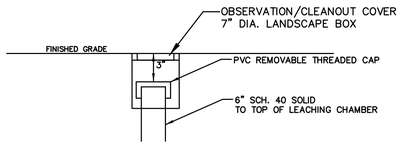
NOTES:

1. ALL ROOF LEADERS SHALL BE EQUIPPED WITH DOWNSPOUT STRAINERS AND OVERFLOW RELIEF TO SURFACE.
2. NO CONSTRUCTION ACTIVITY (TRAFFIC) SHALL BE ALLOWED OVER THE ROOF DRY WELL AREA.
3. ALL ROOF LEADERS FROM THE PROPOSED DWELLING SHALL BE DIRECTED TO THE SUBSURFACE ROOF DRYWELL SYSTEM.



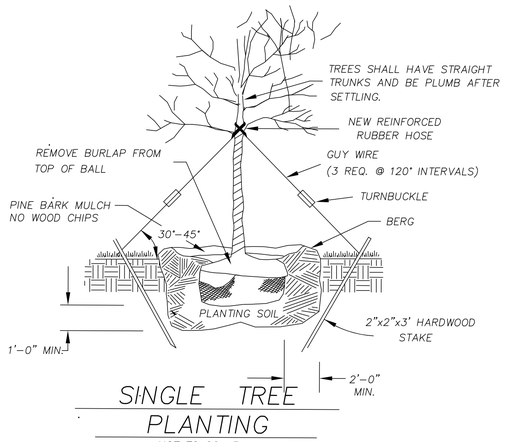
STABILIZED CONSTRUCTION ENTRANCE DETAIL

SCALE: N.T.S.



LEACHING CHAMBER CLEANOUT

CONTRACTOR TO PROVIDDE CLEANOUTS IN FIRST AND LAST CHAMBER OF EACH ROW.



SINGLE TREE PLANTING

NOT TO SCALE

NOTE:
STREET TREES, NOT LESS THAN TWELVE) FEET IN HEIGHT AND OF A SPECIES APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS , SHALL BE PLANTED ON EACH SIDE OF EVERY STREET IN THE SUBDIVISION WHEREVER, IN THE OPINION OF THE PLANNING BOARD, EXISTING WOODLANDS OR INDIVIDUAL TREES ARE NOT RETAINED. TREES SHALL BE LOCATED WITHIN A TEN (10) FOOT CONTINUOS EASEMENT TO THE RIGHT OF WAY AND AT SUCH A DISTANCE THEREFROM AND SPACING AS THE SUPERINTENDENT OF PUBLIC WORKS SHALL SPECIFY IN ACCORDANCE WITH THE GENERAL PRACTICE IN THE TOWN.

Municipal Services

(1) The applicant shall provide and install all necessary materials, appurtenances and equipment to complete the municipal services as may be required by the Definitive Plan in a manner acceptable to the Planning Board and the officials or agency having jurisdiction of each service as previously mentioned herein. All costs incurred by the applicant as a con- sequence of installing and maintaining such municipal services as the Board requires, including hydrant and municipal electric light rental, shall be paid by the applicant, including all costs which may be incurred for any reasons whatsoever until such time as the Town assumes the responsibility for such service. The Board will not take any action to have the applicant reimbursed for any costs so incurred.

(2) The fire alarm system connection will be made by the Hingham Fire Department using materials which shall be furnished by the applicant as specified by the Fire Chief.

(3) The type of hydrants and type and size of pipe serving the hydrants shall be as directed or approved by the Fire Chief.

(4) The type and size of pipe, fittings and appurtenances for the water system shall be as directed or approved by the Massachusetts-American Water Company.

(5) All materials and work in connection with the sewer system shall be as directed and approved by the Sewer Commissioners or authorized agents.

(6) All materials and work in connection with the street lights and electric power service shall be as directed and approved by the Hingham Municipal Light Board.

(7) All work in connection with the municipal services shall be left uncovered until such time as the Board's engineer permits the backfill to be placed. The applicant shall notify all utility companies, with municipal services installed or to be installed within the ways, as to the date and time he intends to place the gravel base course and the paving so that such utility company may properly record the location of pertinent features of the system so that they will not be covered or lost as a result of the paving operation.

(8) All trench backfill material for the municipal services within the way limits shall conform to the base course requirements and shall be deposited to required subgrade in not more than 6 inch layers and compacted to 95 % of the dry density as determined by modified Proctor Test, in accordance with ASTM D-1557-70, Method "D".

CONSTRUCTION SEQUENCE

1. Coordinate pre-construction meeting with appropriate utilities and Town personnel.
2. Install erosion controls and SWPPP/Sediment erosion controls as required.
3. Tree cutting and removal of stumps and debris.
4. Strip topsoil from proposed roadway location, stockpile.
5. Construct subsurface infiltration, loam and seed to establish growth.
6. Install utilities within roadway, install gravel base course.
7. Pave roadway, connect roadway drainage to subsurface infiltration only after the tributary areas are fully stabilized.
8. Perform Lot 2 construction.

EROSION CONTROL SPECIFICATIONS

SITE PREPARATION

SCOPE OF WORK

The Work shall include, but not be limited to the following: erosion control, tree protection, clearing, grubbing, cutting and disposing of vegetation and debris from within the Project area, and stripping and stockpiling of topsoil and subsoil. The Work shall also include the preservation from injury or damage to all vegetation designated to remain, as shown on the Drawings or as directed by the Engineer. The limit of clearing shall be in accordance with limit of proposed grading as shown on the Drawings, unless otherwise specified. No trees shall be cut, removed, destroyed or trimmed outside the designated areas without approval of the Owner, except for the removal of the existing fallen trees within the septic test holes areas. Furnish and set all lines and grades required. No permanent benchmarks or monuments shall be disturbed.

CLEARING AND GRUBBING

Unless directed otherwise, all existing turf or vegetated areas within the proposed limits of work for excavation, grading, or improvement shall be cleared and grubbed. Within the clearing and grubbing area, remove all trees and shrubs unless designated otherwise. Grub out and remove all roots exceeding one inch (1") diameter to a depth of forty-two inches (42") below proposed grade or existing grade, whichever is lower. Clearing shall include the felling, cutting, and satisfactory disposal of all trees, shrubs, stumps and vegetative debris produced through the clearing operations. Fell trees in such a way as to not injure trees to be saved. Excavation or grading within the branch spread of trees to be saved shall be performed only under the direction of the Engineer unless otherwise directed. Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated. Wood chips will be stockpiled on site for later use in erosion control. All cut trees and stumps to be removed from the site.

STRIPPING AND STOCKPILING OF TOPSOIL AND SUBSOIL

Prior to starting general excavation, all topsoil and subsoil shall be stripped to full depth encountered from areas to be regraded or otherwise improved and shall be stockpiled in approved locations for later reuse. Approved locations for temporary stockpiles include those areas designated for filling, on this plan, beyond the limits of roadway grading. Material stockpiled shall be free from trash, brush, large stones and other extraneous matter. Under no conditions may topsoil or subsoil be removed from the premises without approval by the Owner or without any required earth removal permits. Do not strip without a clear understanding of existing soil, planting and site conditions to be preserved.

All topsoil containing excessive amounts of stones shall be stockpiled separately or used as fill, as directed by the Owner. Subsoil may also be reused as fill when directed by the Owner in areas designated by the Owner. Where trees are indicated to be left standing, stop topsoil stripping a sufficient distance from such trees to prevent damage to the main root system. Stockpile topsoil and subsoil in separate piles in an area clear of new construction.

Maintain each stockpile in a manner that will not obstruct the natural flow of drainage. Maintain stockpiles free from debris and trash. Keep the topsoil damp to prevent dust and drying out.

DISPOSAL

Remove trees, brush, grass, roots, trash, and other material produced from clearing operations. Remove debris from the Site and dispose of in a legal manner. All stumps shall be properly disposed of at a DEP approved disposal facility. Do not store or permit debris to accumulate on the Site. Do not burn debris at the Site.

PROVISIONS FOR CONTROL OF EROSION

It is the Contractor's responsibility to control erosion and sediment transport within and from the site during construction and until all disturbed areas have been stabilized. Erosion and sedimentation control components must be placed prior to disturbance of each work area and shall be maintained until each respective area has been stabilized. Any sediment entering into the Site's or the Town's drainage system due to on-site sediment transport shall be removed at the Contractor's expense. Siltation and erosion control measures will be implemented to protect down-slope areas and to minimize excessive erosion of exposed work areas. Hay bales, silt fencing, mulch and wood chips will be used as needed. The Contractor shall take sufficient precautions, as approved by the Owner during construction to minimize the run-off of polluting substances such as silt, clay, fuels, oils, bitumens, calcium chloride, or other polluting materials harmful to humans, fish, or other life, into the water supplies and surface waters. Special precaution shall be taken in the use of construction equipment to prevent operations that promote erosion.

As a minimum, the following shall apply: In general construction areas, brush and stumps shall not be removed until 1 week prior to the start of construction. The existing ground surface shall be disturbed as little as possible prior to the start of construction. Staked bales of hay/silt fencing erected and located as shown on the Drawings shall be provided to reduce the sediment content of runoff water (for locations, see this plan and Grading Plans). Unless otherwise noted, all roadway areas, cut & fill areas, and drainage easements shall be brought to finished grade with a minimum of 6" of loam and seeded with a mixture of annual rye grasses and perennial grasses, and maintained until vegetation stabilizes these areas. Seeding or mulching of other areas shall take place as soon as practicable. Hay mulch, wood chips, or other suitable protection shall be utilized on all exposed slopes.

The location of hay bales is shown on the Drawings and is intended to be a guide for the placement of siltation and erosion control barriers and shall not relieve the Contractor from placing additional barriers or replacing barriers as directed by the Engineer, or as required by Site conditions.

EARTHWORK

SCOPE

Furnish labor, materials, equipment and services to perform all site grading, excavating, backfilling, dewatering, and soil compacting necessary to complete the Work as shown on the Drawings, Planning Board Final Conditions and to Town of Hingham Rules, Regulations and Specifications.

LAYOUT AND GRADES

All lines and grades not presently established at the Site shall be laid out by the Contractor in accordance with the Drawings and Specifications. The words "finished grades" as used herein shall mean final grade elevation indicated on the Drawings. Spot elevations shall govern over proposed contours. Unless otherwise indicated, provide uniform slopes between points for which finished grades are indicated or between such points and existing established grades.

SHORING AND SHEETING

Provide shoring, sheeting and/or bracing at excavations, as required, to assure complete safety against collapse of excavations.

DRAINAGE

Complete drainage system as shown on plans including storm water chambers, and placement of all concrete drainage structures and pipes.
The roadway drainage system shall be temporarily sealed off, by means of steel covers on catch basins, until adjacent slopes have been stabilized. Drains shall be fully operational before placement of finished roadway pavement.

LOAM AND SEED

Includes spreading, fine grading, raking and seeding a minimum of 6" topsoil from on site stockpiles on shoulders and disturbed areas. These areas shall be properly watered until vegetation stabilizes disturbed areas.

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COMMONWEALTH OF MASSACHUSETTS
DOUGLAS L. AABERG 35382
PROFESSIONAL LAND SURVEYOR

FOR REGISTRY OF DEEDS USE ONLY

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE REGISTERS OF DEEDS.

Douglas L. Aaberg — 10/7/2020
PROFESSIONAL LAND SURVEYOR — DATE

I certify that 20 days have elapsed since Planning Board approval and that no appeal has been filed in this office.

_____ _____
Date — Hingham Town Clerk

Approved_____ , subject to covenant conditions set forth in a covenant executed by Hingham Planning Brd. dated_____ , and to be recorded herewith.

Date Submitted:_____

Date Approved:_____

_____
Hingham Planning Board

Date Submitted:_____

Date Approved:_____

_____
Hingham Board of Health

COMMONWEALTH OF MASSACHUSETTS
GREGORY J. MORSE CIVIL No.47105 REGISTERED PROFESSIONAL ENGINEER

Gregory J. Morse

CONSTRUCTION DETAILS II

DEFINITIVE SUBDIVISION MODIFICATION PLAN
PLAN OF LAND

"CRANE DRIVE" formerly "RED TAIL LANE"
HINGHAM, MASS.

BEING A SUBDIVISION OF ASSESSORS MAP 188 PLOT 108

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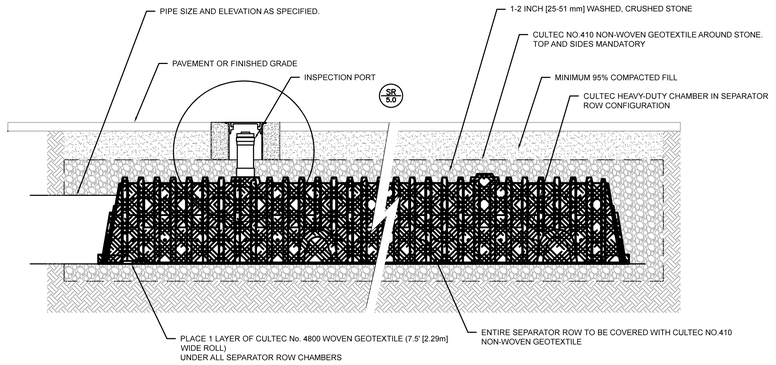
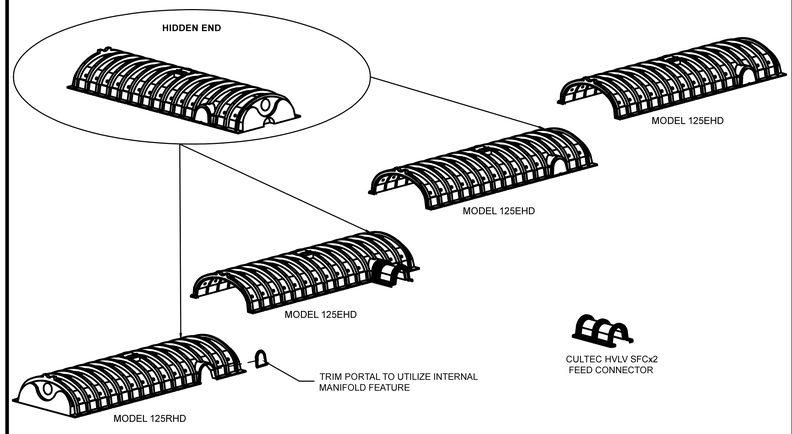
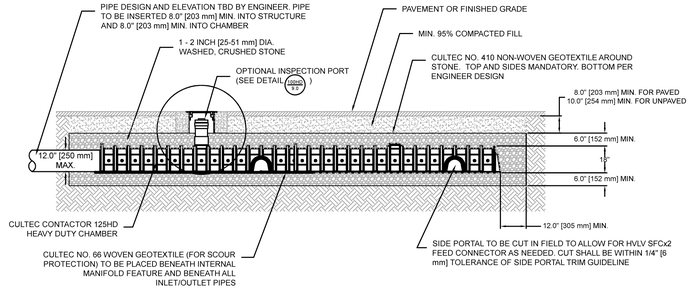


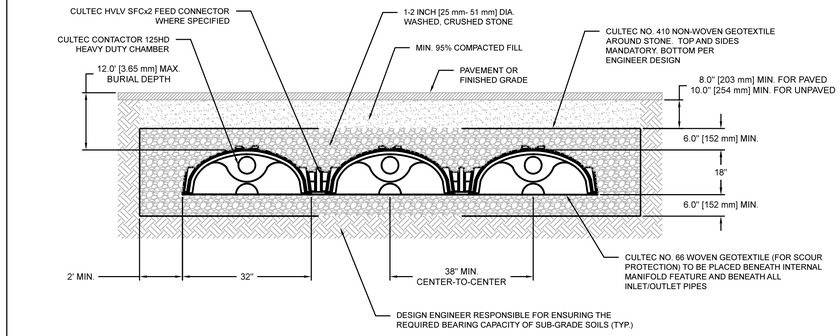
TYPICAL SEPARATOR ROW CROSS SECTION WITH INSPECTION PORT DETAIL



CULTEC CONTACTOR 125HD HEAVY DUTY TYPICAL INTERLOCK



CULTEC MANIFOLD - OPTIONAL INSPECTION PORT DETAIL



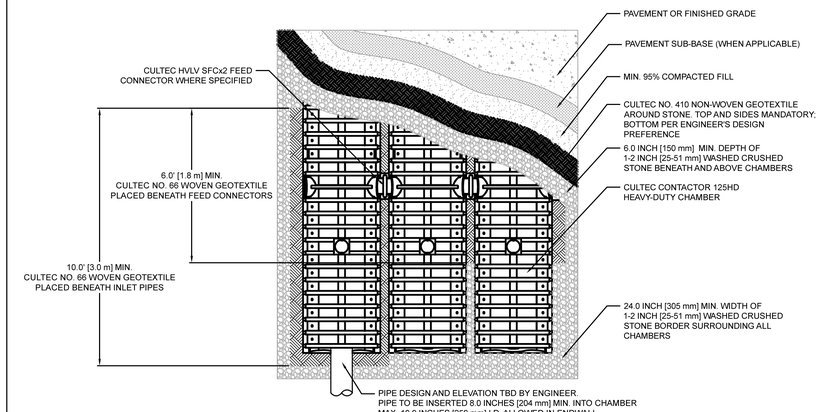
GENERAL NOTES

CONTACTOR 125HD BY CULTEC, INC. OF BROOKFIELD, CT.

REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
MAXIMUM ALLOWED COVER ON TOP OF UNIT SHALL BE 12.0' [3.66 m]
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS

WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS ALL CONTACTOR 125HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL CONTACTOR 100 CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

CULTEC CONTACTOR 125HD HEAVY DUTY TYPICAL CROSS SECTION



CULTEC CONTACTOR 125HD HEAVY DUTY PLAN VIEW

TM

CULTEC

CULTEC, Inc.

Subsurface Stormwater Management Systems

P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com

PH: (203) 775-4416
PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

FOR REGISTRY OF DEEDS USE ONLY

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS L. AABERG
35382
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Hingham Planning Board

Date Submitted:_____

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Hingham Board of Health

COMMONWEALTH OF MASSACHUSETTS
GREGORY J. MORSE
CIVIL
No. 47105
REGISTERED PROFESSIONAL ENGINEER

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