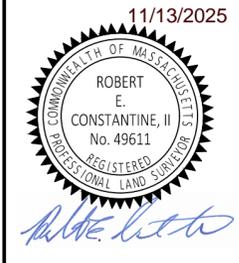


SOLID CONTOURS DERIVED FROM MASSGIS DATA (TYP.)

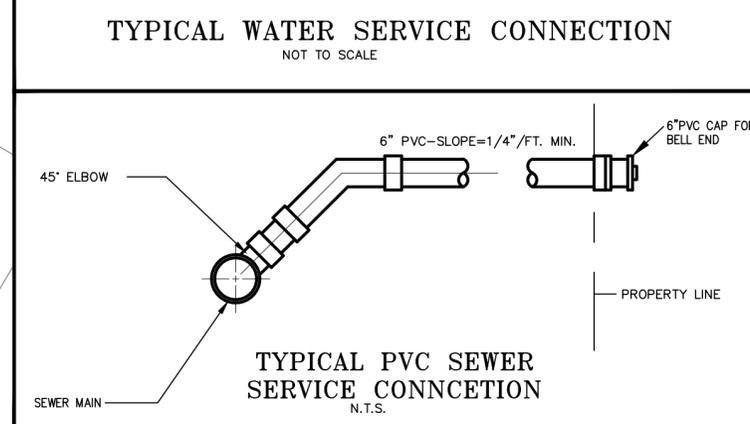
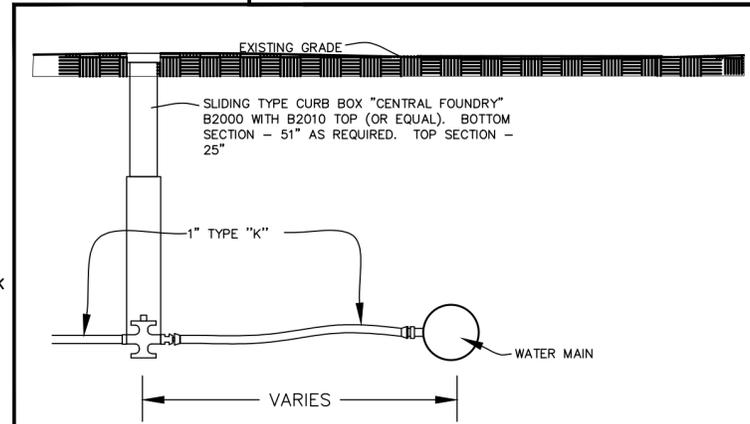
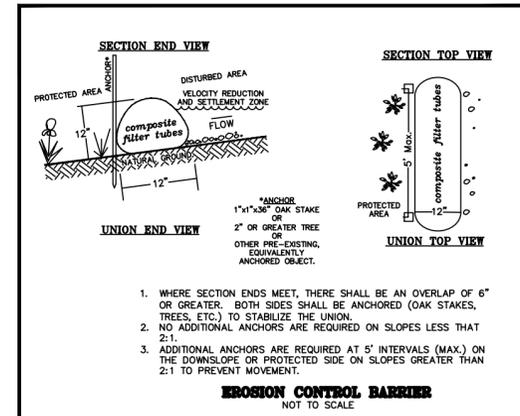
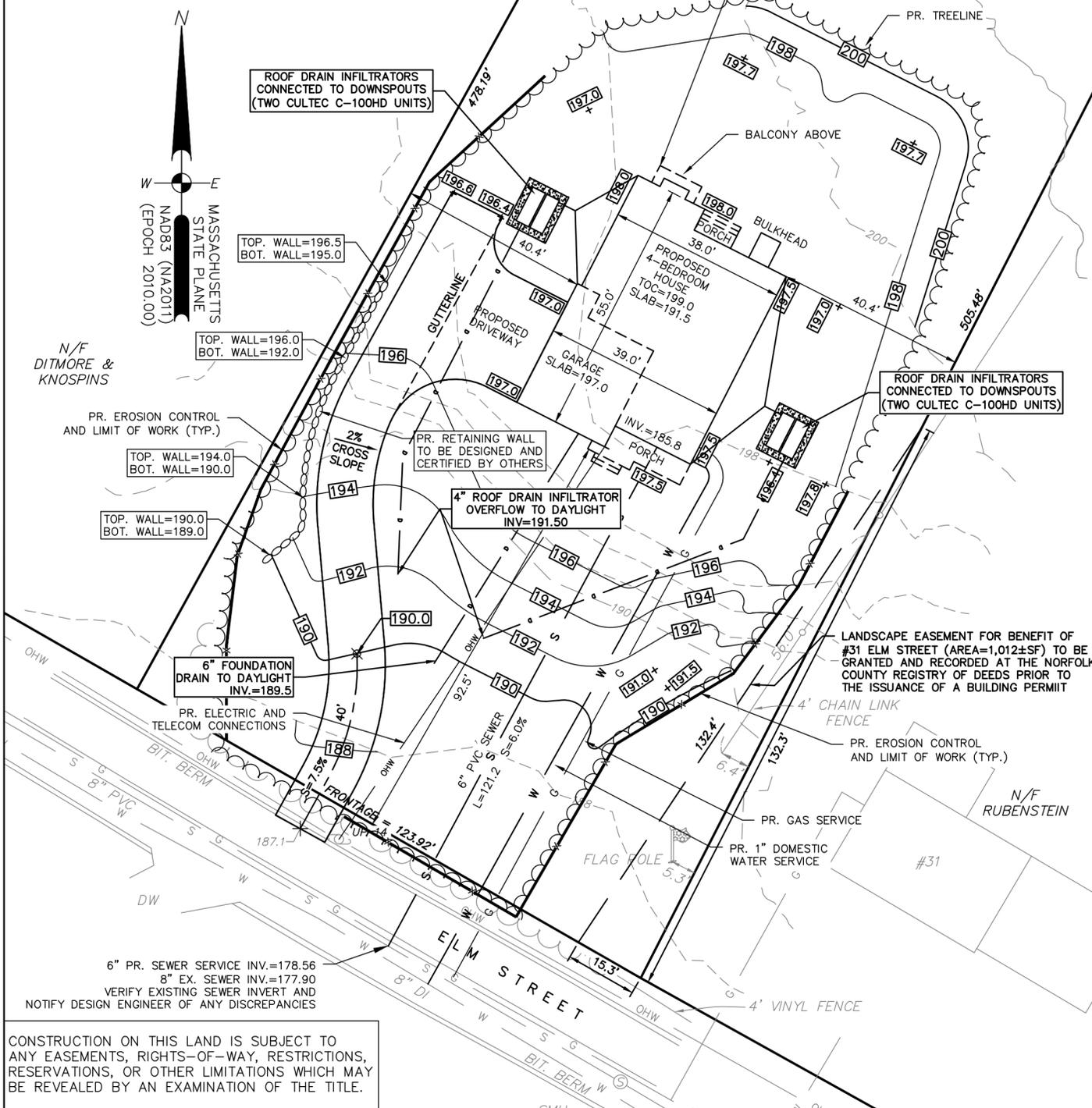
A.M. 214 LOT 111
57,015±SF
(1.309±AC)

NOTES:

1. THIS LOT IS NOT LOCATED IN A WATER RESOURCE DISTRICT PER WATER RESOURCE DISTRICT MAP DATED 4/11/2019
2. THIS LOT IS NOT LOCATED IN A FEMA FLOOD ZONE PER FEMA FLOOD ZONE MAP 25021C0144E DATED 7/17/2012
3. THIS LOT IS ZONED RURAL RESIDENTIAL I
4. TOTAL IMPERVIOUS LOT COVERAGE:
PROPOSED IMPERVIOUS AREA = 4,329 SF
IMPERVIOUS LOT COVERAGE = 7.6%



F4686

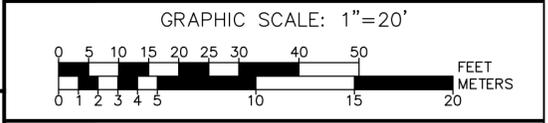


OWNER/APPLICANT
GEORGE D. IVERSON TRUST
24 GILDER ROAD
BOURNE, MA 02532
DEED BOOK 7913 PAGE 522
PLAN No. 401 OF 1960 PLAN Bk. 3807 PAGE 100
A.M. 214 LOT 111

**BUILDING PERMIT
PLOT PLAN
33 ELM STREET
FRANKLIN, MASSACHUSETTS**

FEBRUARY 10, 2024

DATE	REVISION DESCRIPTION
2/26/2025	REVISED ZONING INFORMATION
4/10/2025	REVISE LAYOUT AND HOUSE SIZE
11/12/2025	REVISE GRADING & DRAINAGE



Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
55 WEST CENTRAL ST. PH. (508) 528-3221
FRANKLIN, MA 02038 FX. (508) 528-7921
www.gandhengineering.com

RESIDENTIAL SYSTEM APPLICATION SPECIFICATIONS

1.0 GENERAL

RESIDENTIAL STORMWATER MANAGEMENT IS THE PRACTICE OF CONTROLLING STORMWATER RUNOFF GENERATED BY RESIDENTIAL PROPERTIES. IMPERVIOUS SURFACES LIKE ROOFS, PATIOS, DRIVEWAYS, AND HEAVILY COMPACTED PERVIOUS SURFACES SUCH AS LAWNS PREVENT RAINFALL FROM BEING EVENLY DISTRIBUTED ACROSS THE GROUND AND EVENTUALLY ABSORBING INTO THE NATIVE SOIL. THESE IMPERVIOUS SURFACES INCREASE THE VOLUME OF RUNOFF AND THE RATE AT WHICH THE RUNOFF OCCURS. THE INCREASED VOLUME AND RUNOFF RATES CAN HAVE NEGATIVE IMPACTS DOWNSTREAM INCLUDING CHANNEL EROSION AND FLOODING OF ADJACENT PROPERTIES. ADDITIONALLY, RUNOFF FROM THESE SURFACES CAN CONTAIN SEDIMENT, NUTRIENTS, HEAVY METALS, AND OTHER POLLUTANTS THAT NEGATIVELY AFFECT THE DOWNSTREAM WATERCOURSES. A WELL-DESIGNED AND IMPLEMENTED RESIDENTIAL DRAINAGE SYSTEM WILL REDUCE THE OVERALL VOLUME OF DOWNSTREAM RUNOFF, REDUCE PEAK FLOWS FROM THE SITE AND WILL ACHIEVE WATER QUALITY CONTROLS THROUGH A VARIETY OF BEST MANAGEMENT PRACTICES.

1.1 APPLICATIONS

CULTEC CHAMBERS CAN BE USED IN THE FOLLOWING RESIDENTIAL APPLICATIONS:

- INFILTRATION OF STORMWATER RUNOFF
- DETENTION OF STORMWATER RUNOFF
- RAINWATER HARVESTING AND REUSE
- SUMP PUMP AND WATER SOFTENER DISCHARGE
- POOL BACKWASH AND DRAWDOWN DISCHARGE

CULTEC STORMFILTER T-80 WATER QUALITY UNIT SPECIFICATIONS

2.0 GENERAL

CULTEC STORMFILTER® T-80 MAY BE USED AS A STORMWATER FILTRATION UNIT, HOLDING TANK OR CATCH BASIN.

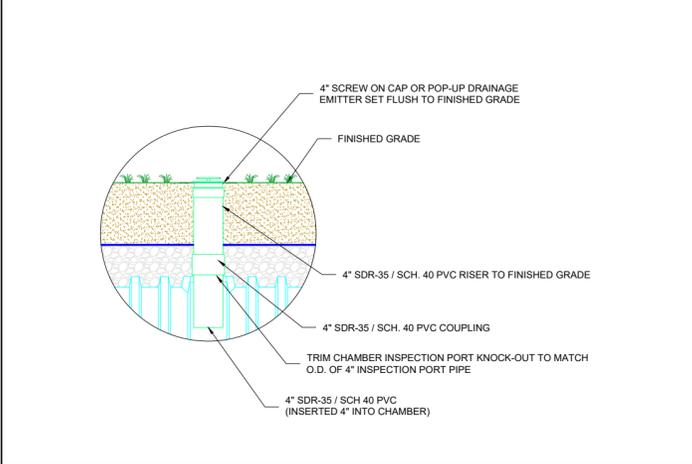
2.1 CHAMBER PARAMETERS

- THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT (203-775-4416 OR 1-800-428-5832).
- THE CHAMBER SHALL BE FORMED OF BLACK POLYETHYLENE.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC STORMFILTER® T-80 SHALL BE 26.38 INCHES (670 MM) TALL, 31 INCHES (787 MM) WIDE AND 42 INCHES (1067 MM) LONG.
- THE CHAMBER SHALL HAVE A 12.5 INCH (318 MM) DIAMETER ACCESS OPENING LOCATED AT THE TOP OF THE UNIT.
- MAXIMUM INLET OPENING ON THE CHAMBER END WALL IS 4 INCHES (100 MM).
- THE NOMINAL STORAGE VOLUME OF THE STORMFILTER™ T-80 SHALL BE 90 GAL / UNIT (340.7 L / UNIT).
- THE STORMFILTER® T-80 CHAMBER SHALL HAVE 5 CORRUGATIONS.
- THE STORMFILTER® T-80 SHALL HAVE A MAXIMUM FILTERING CAPACITY OF 315.1 GPM (1193 L/MIN).
- THE CHAMBER SHALL BE DESIGNED FOR NON-TRAFFIC APPLICATIONS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.

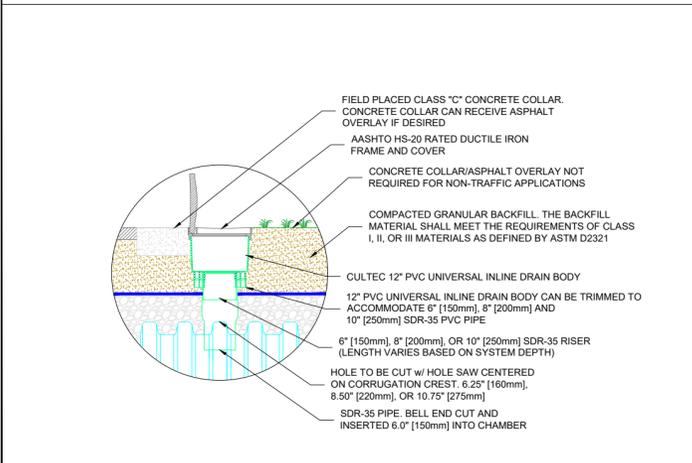
2.2 FILTERING SPECIFICATIONS

- THE FILTER REMOVES MORE THAN 70% OF THE TOTAL SUSPENDED SOLIDS TYPICALLY PRESENT IN STORMWATER RUNOFF.
- CONTINUOUS FILTRATION CAPABILITY FOR CLEAN FILTERS IS RATED AT 0.70 CFS (0.02 M3/S).
- TREATMENT CAPABILITY IS APPROXIMATELY 315.1 GPM (1193 L/MIN).

GENERAL NOTES



NON-TRAFFIC INSPECTION PORT ZOOM DETAIL

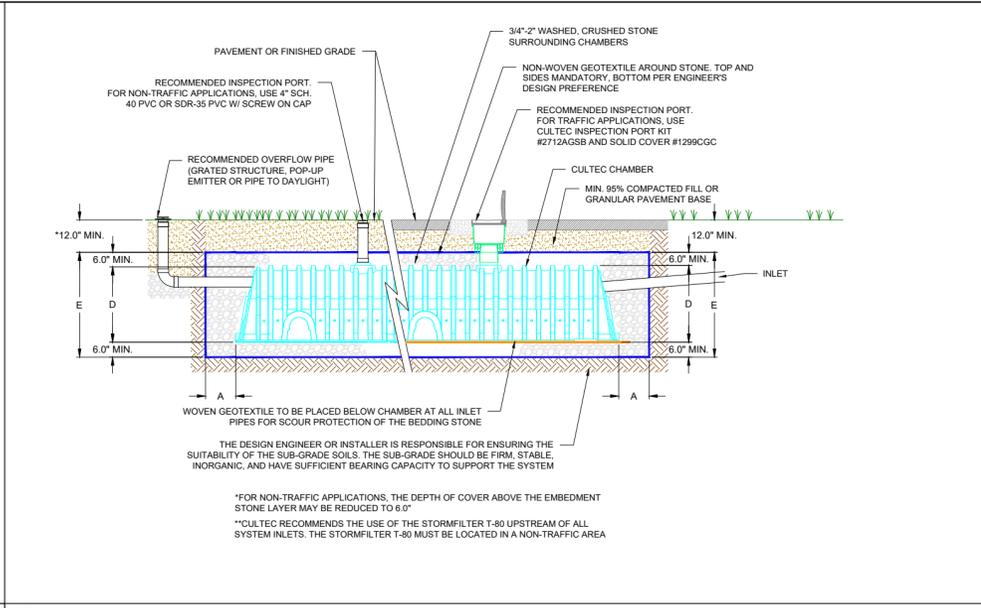


CULTEC INSPECTION PORT - ZOOM DETAIL

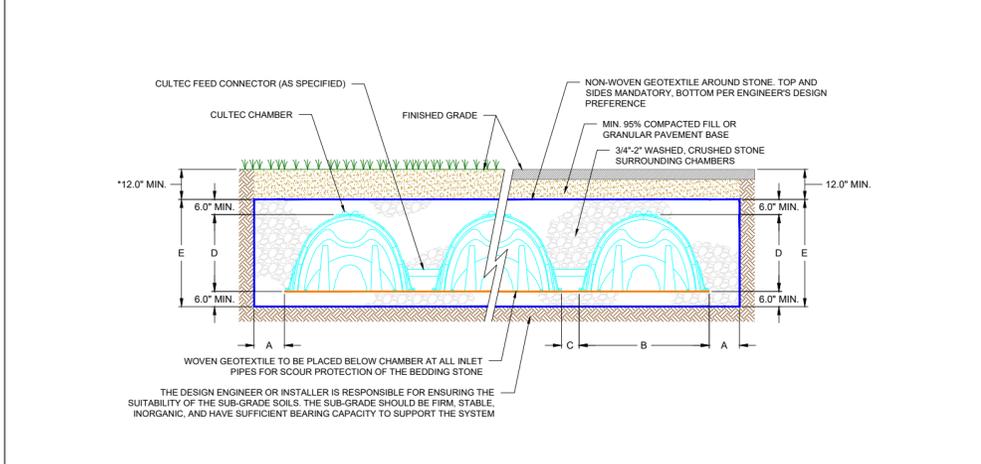
RESI 1.0

RESI 4.0

RESI 5.0



TYPICAL SYSTEM PROFILE DETAIL



SPECIFICATION TABLE

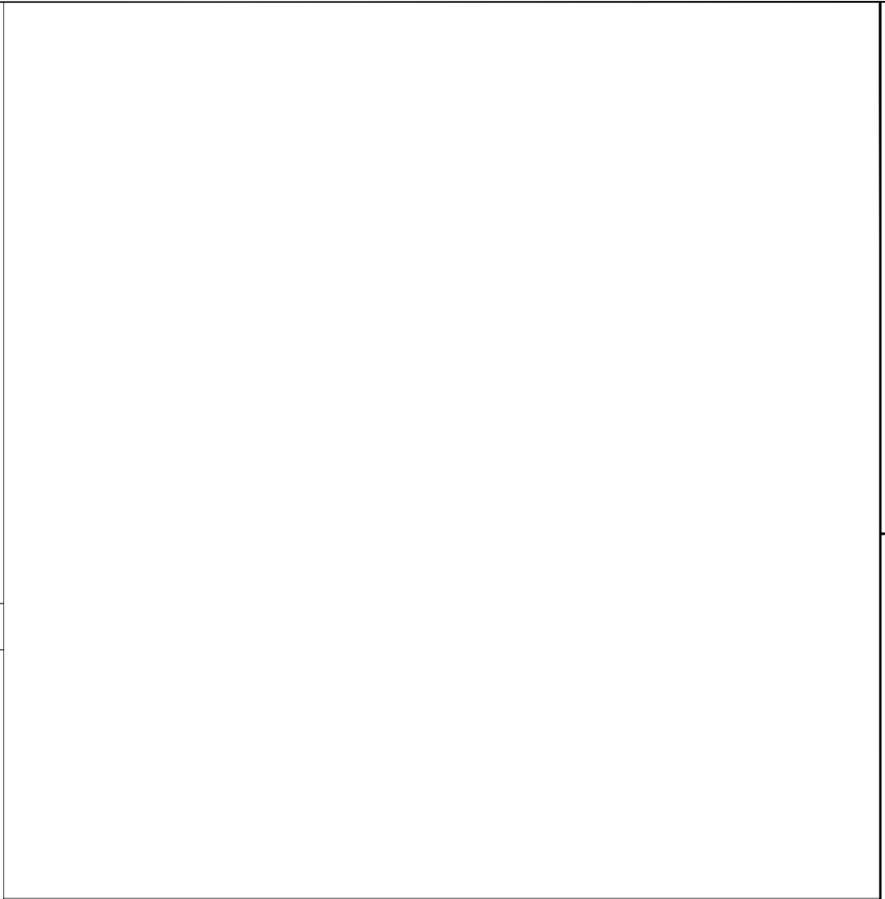
CONTACTOR 100HD		
REF.	BARE CHAMBER VOLUME	1.87 FT ³ /FT 14.00 FT ³ /UNIT 105 GAL
A	STONE BORDER (IN)	18
B	CHAMBER WIDTH (IN)	36
C	ROW SPACING (IN)	6
D	CHAMBER HEIGHT (IN)	12
E	EFFECTIVE DEPTH (IN)	24

TYPICAL SYSTEM CROSS-SECTION DETAIL & SPECIFICATION TABLE

SR 6.0

RESI 7.0

RESI 7.0



CHAMBER LENGTH DETAIL & LENGTH TABLE

REF.	LOCATION	CONTACTOR 100HD
A	SINGLE CHAMBER	96"
B	FIRST CHAMBER OF ROW	93"
C	MIDDLE CHAMBER(S)	90"
D	LAST CHAMBER OF ROW	93"

RESI 7.0

RESI 7.0

RESI 7.0

RESI 7.0

RESI 7.0

CULTEC STORMWATER CHAMBER	
PROJECT NO:	10/24
DESIGNED BY:	DPG
SCALE:	1 OF 1

RESIDENTIAL APPLICATION
TYPICAL DETAILS

CULTEC
Subsurface Stormwater Management Systems
878 Federal Road
Brookfield, CT 06804
www.cultec.com
stormgenie@cultec.com

THIS DRAWING HAS BEEN PREPARED TO SUPPORT THE PROJECT ENGINEER'S RECORD FOR THE PROPOSED SYSTEM. THE DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO CULTEC UNDER THE DIRECTION OF THE PROJECT ENGINEER AS RECORDED. CULTEC SYSTEMS DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS, REGULATIONS AND MANUFACTURER REQUIREMENTS.