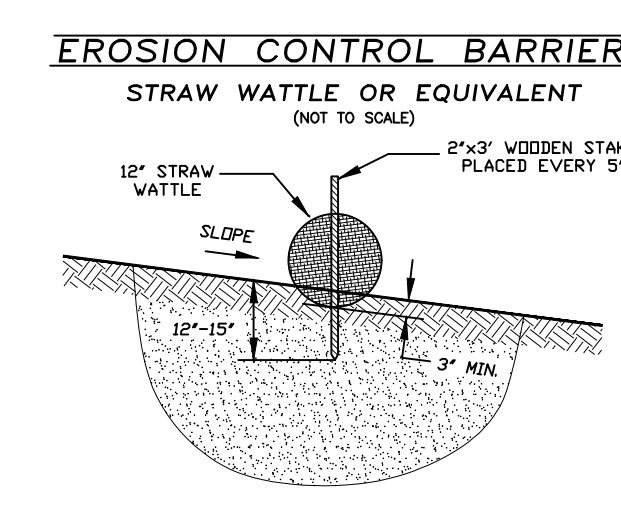
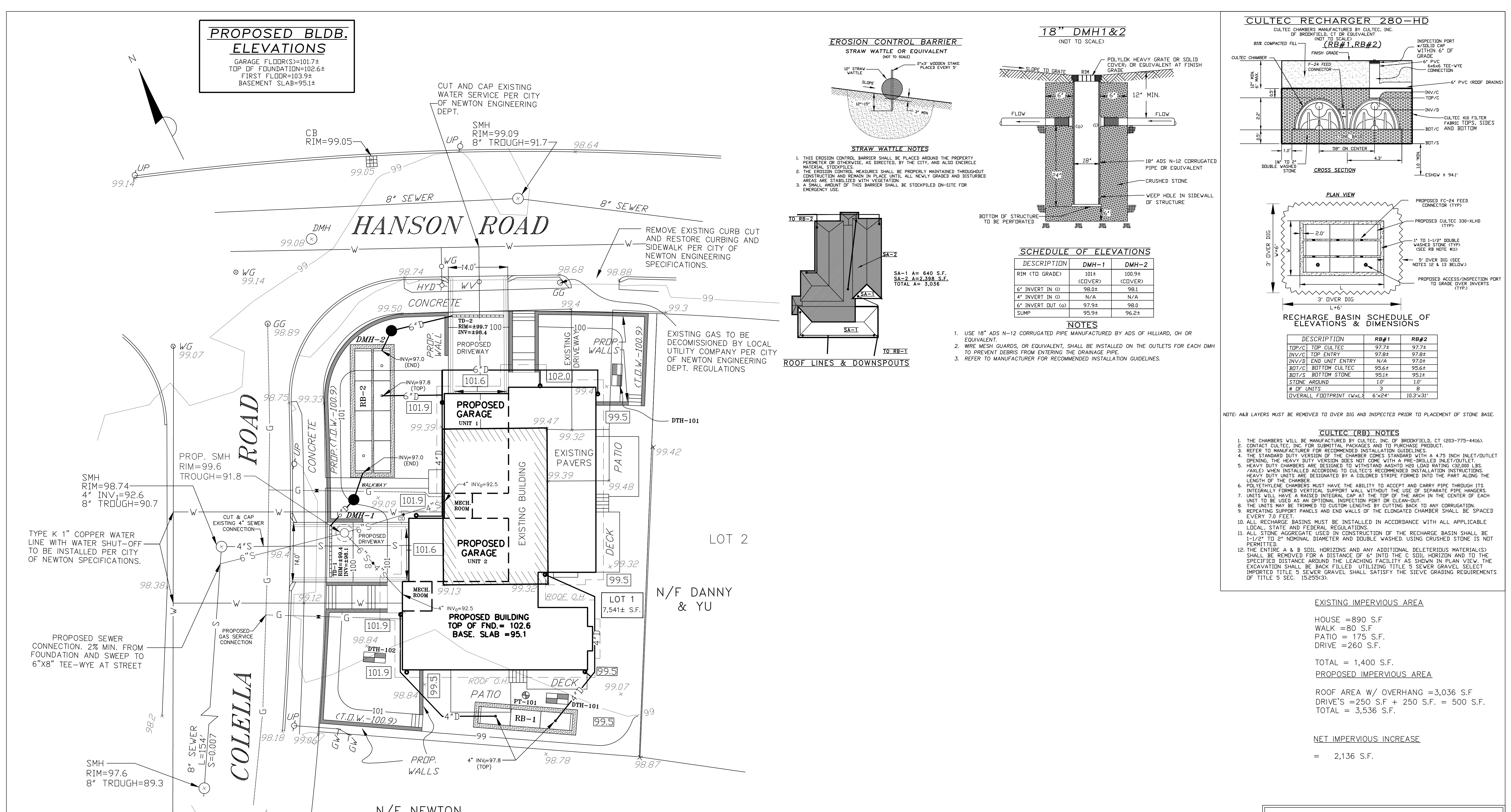
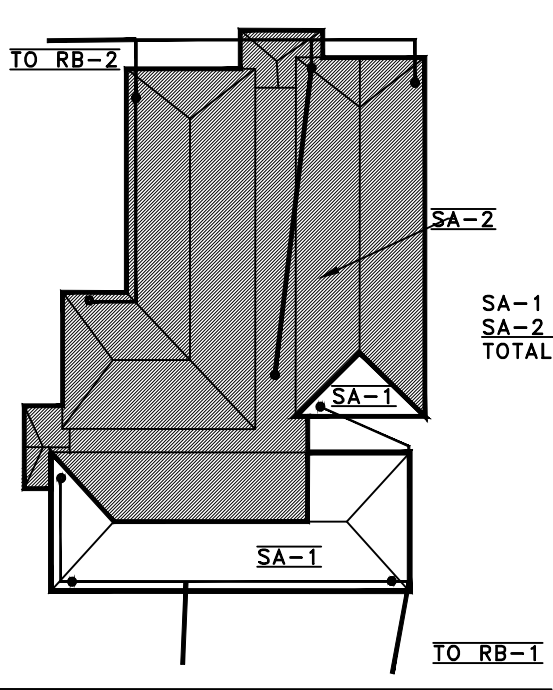


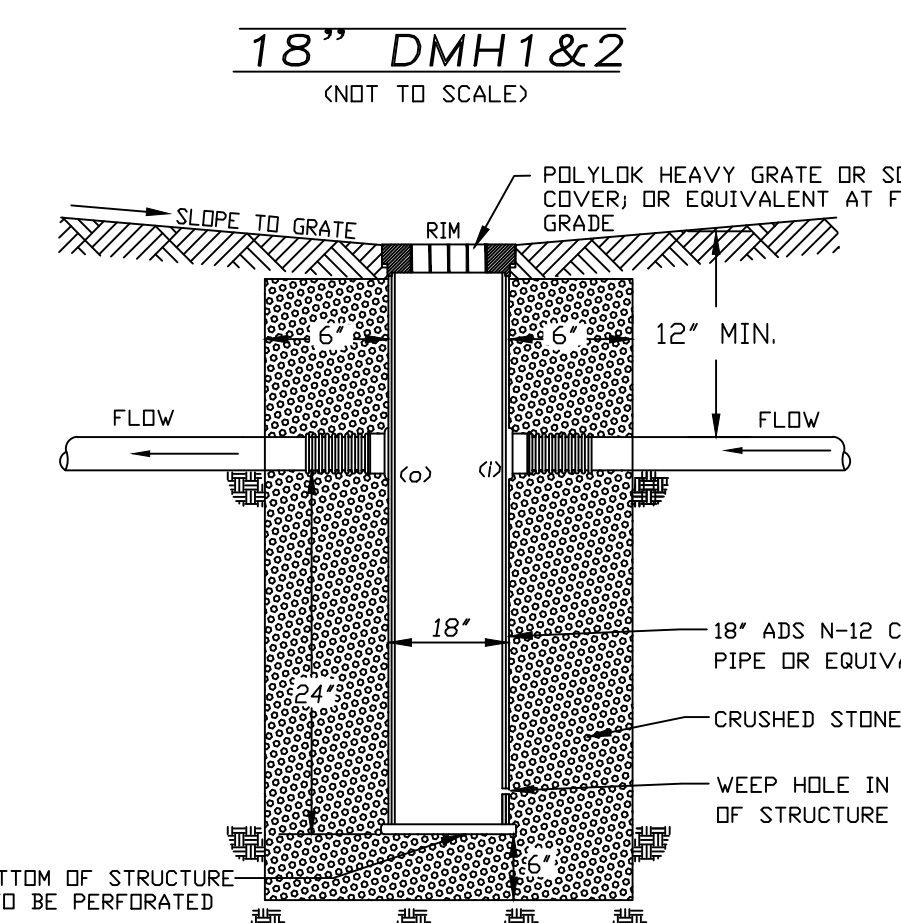
PROPOSED BLDB. ELEVATIONS
 GARAGE FLOOR(S)=101.7±
 TOP OF FOUNDATION=102.6±
 FIRST FLOOR=103.9±
 BASEMENT SLAB=95.1±



EROSION CONTROL BARRIER
 STRAW WATTLE OR EQUIVALENT (NOT TO SCALE)
 18" STRAW WATTLE
 2" x 3" WOODEN STAKE PLACED EVERY 5'



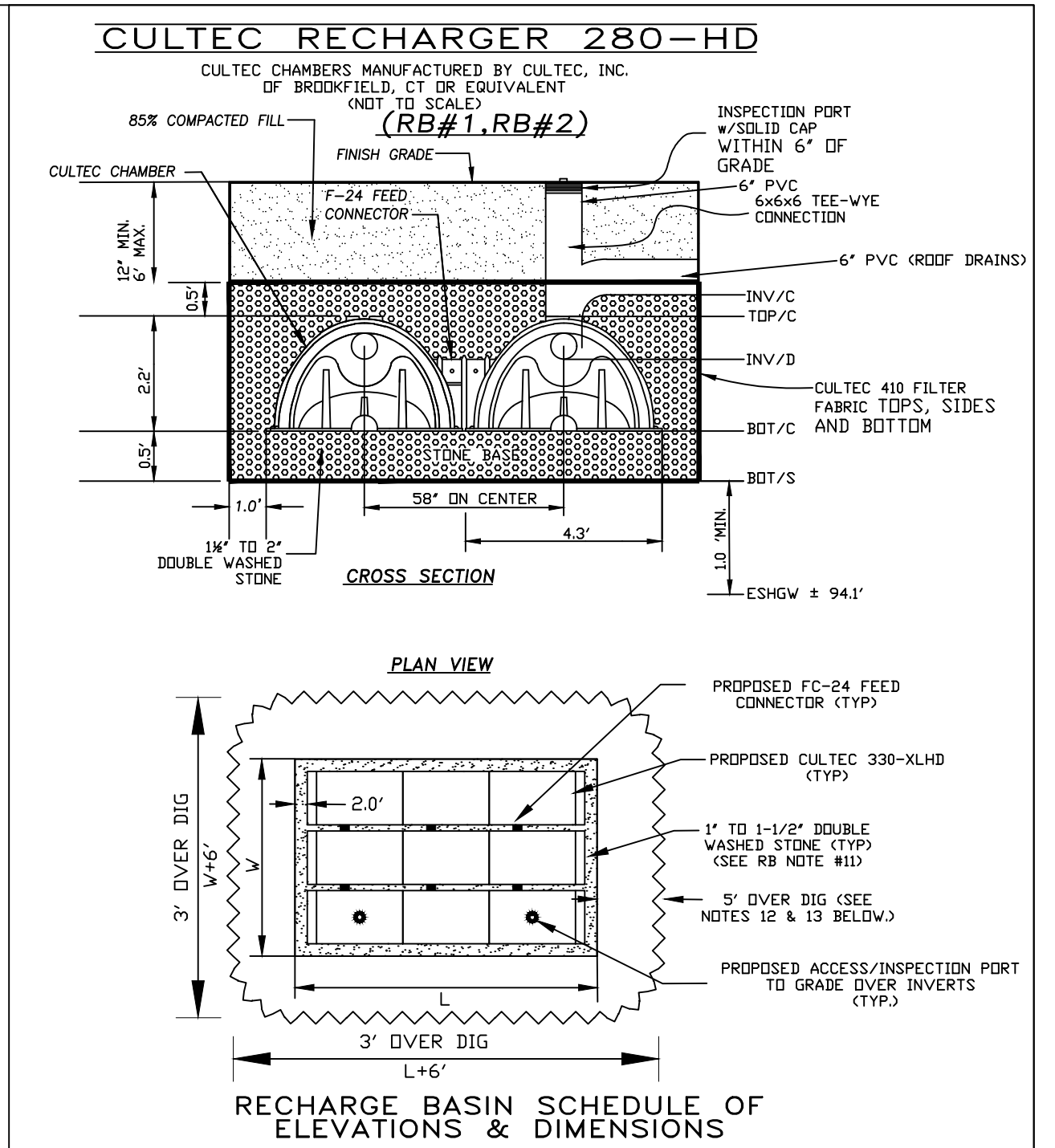
ROOF LINES & DOWNSPOUTS
 SA-1 A= 640 S.F.
 SA-2 A=2,398 S.F.
 TOTAL A= 3,036



SCHEDULE OF ELEVATIONS

DESCRIPTION	DMH-1	DMH-2
RIM (TO GRADE)	101± (COVER)	100.9± (COVER)
6" INVERT IN (C)	98.0±	98.1
4" INVERT IN (C)	N/A	N/A
6" INVERT OUT (C)	97.9±	98.0
SUMP	95.9±	96.2±

NOTES
 1. USE 18" ADS N-12 CORRUGATED PIPE MANUFACTURED BY ADS OF HILLIARD, OH OR EQUIVALENT.
 2. WIRE MESH GUARDS, OR EQUIVALENT, SHALL BE INSTALLED ON THE OUTLETS FOR EACH DMH TO PREVENT DEBRIS FROM ENTERING THE DRAINAGE PIPE.
 3. REFER TO MANUFACTURER FOR RECOMMENDED INSTALLATION GUIDELINES.



RECHARGE BASIN SCHEDULE OF ELEVATIONS & DIMENSIONS

DESCRIPTION	RB#1	RB#2
TOP/C TOP CULTEC	97.7±	97.7±
INV/C TOP ENTRY	97.8±	97.8±
INV/D END UNIT ENTRY	N/A	97.0±
BOT/C BOTTOM CULTEC	95.6±	95.6±
BOT/S BOTTOM STONE	95.1±	95.1±
STONE AROUND	1.0'	1.0'
# OF UNITS	3	8
OVERALL FOOTPRINT (WxL)	6'x24'	10.3'x31'

NOTES
 1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BRIDGFIELD, CT (203-775-4416).
 2. CONTACT CULTEC, INC. FOR SUBMITTAL PACKAGES AND TO PURCHASE PRODUCT.
 3. REFER TO MANUFACTURER FOR RECOMMENDED INSTALLATION GUIDELINES.
 4. THE STANDARD DUTY VERSION OF THE CHAMBER COMES STANDARD WITH A 4.75 INCH INLET/OUTLET OPENING. THE HEAVY DUTY VERSION DOES NOT COME WITH A PRE-DRILLED INLET/OUTLET.
 5. HEAVY DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H20 LOAD RATING (32,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
 6. POLYETHYLENE CHAMBERS MUST HAVE THE ABILITY TO ACCEPT AND CARRY PIPE THROUGH ITS INTEGRALLY FORMED VERTICAL SUPPORT WALL WITHOUT THE USE OF SEPARATE PIPE HANGERS. UNITS WILL HAVE A RAISED INTEGRAL GAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
 7. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
 8. REPEATING SUPPORT PANELS AND END WALLS OF THE ELONGATED CHAMBER SHALL BE SPACED EVERY 7.0 FEET.
 9. ALL RECHARGE BASINS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
 10. ALL STONE AGGREGATE USED IN CONSTRUCTION OF THE RECHARGE BASIN SHALL BE 1-1/2" TO 2" NOMINAL DIAMETER AND DOUBLE WASHED. USING CRUSHED STONE IS NOT PERMITTED.
 11. THE ENTIRE A & B SOIL HORIZONS AND ANY ADDITIONAL DELETERIOUS MATERIAL(S) SHALL BE REMOVED FOR A DISTANCE OF 6" INTO THE C SOIL HORIZON AND TO THE SPECIFIED DISTANCE AROUND THE LEACHING FACILITY AS SHOWN IN PLAN VIEW. THE EXCAVATION SHALL BE BACK FILLED UTILIZING TITLE 5 SEWER GRAVEL SELECT IMPORTED TITLE 5 SEWER GRAVEL SHALL SATISFY THE SIEVE GRADING REQUIREMENTS OF TITLE 5 SEC. 15.255(c).
 12. THE ENTIRE A & B SOIL HORIZONS AND ANY ADDITIONAL DELETERIOUS MATERIAL(S) SHALL BE REMOVED TO OVER DIG AND INSPECTED PRIOR TO PLACEMENT OF STONE BASE.

CULTEC (RB) NOTES
 1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BRIDGFIELD, CT (203-775-4416).
 2. CONTACT CULTEC, INC. FOR SUBMITTAL PACKAGES AND TO PURCHASE PRODUCT.
 3. REFER TO MANUFACTURER FOR RECOMMENDED INSTALLATION GUIDELINES.
 4. THE STANDARD DUTY VERSION OF THE CHAMBER COMES STANDARD WITH A 4.75 INCH INLET/OUTLET OPENING. THE HEAVY DUTY VERSION DOES NOT COME WITH A PRE-DRILLED INLET/OUTLET.
 5. HEAVY DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H20 LOAD RATING (32,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
 6. POLYETHYLENE CHAMBERS MUST HAVE THE ABILITY TO ACCEPT AND CARRY PIPE THROUGH ITS INTEGRALLY FORMED VERTICAL SUPPORT WALL WITHOUT THE USE OF SEPARATE PIPE HANGERS. UNITS WILL HAVE A RAISED INTEGRAL GAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
 7. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
 8. REPEATING SUPPORT PANELS AND END WALLS OF THE ELONGATED CHAMBER SHALL BE SPACED EVERY 7.0 FEET.
 9. ALL RECHARGE BASINS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
 10. ALL STONE AGGREGATE USED IN CONSTRUCTION OF THE RECHARGE BASIN SHALL BE 1-1/2" TO 2" NOMINAL DIAMETER AND DOUBLE WASHED. USING CRUSHED STONE IS NOT PERMITTED.
 11. THE ENTIRE A & B SOIL HORIZONS AND ANY ADDITIONAL DELETERIOUS MATERIAL(S) SHALL BE REMOVED FOR A DISTANCE OF 6" INTO THE C SOIL HORIZON AND TO THE SPECIFIED DISTANCE AROUND THE LEACHING FACILITY AS SHOWN IN PLAN VIEW. THE EXCAVATION SHALL BE BACK FILLED UTILIZING TITLE 5 SEWER GRAVEL SELECT IMPORTED TITLE 5 SEWER GRAVEL SHALL SATISFY THE SIEVE GRADING REQUIREMENTS OF TITLE 5 SEC. 15.255(c).
 12. THE ENTIRE A & B SOIL HORIZONS AND ANY ADDITIONAL DELETERIOUS MATERIAL(S) SHALL BE REMOVED TO OVER DIG AND INSPECTED PRIOR TO PLACEMENT OF STONE BASE.

EXISTING IMPERVIOUS AREA
 HOUSE = 890 S.F.
 WALK = 80 S.F.
 PATIO = 175 S.F.
 DRIVE = 260 S.F.
 TOTAL = 1,400 S.F.
PROPOSED IMPERVIOUS AREA
 ROOF AREA W/ OVERHANG = 3,036 S.F.
 DRIVE'S = 250 S.F. + 250 S.F. = 500 S.F.
 TOTAL = 3,536 S.F.
NET IMPERVIOUS INCREASE
 = 2,136 S.F.

PERC TEST DATA
 PT#101
 DATE OF TEST: 9/24/20
 DEPTH OF TEST: 1.8'-3.3'
 RATE: 7 MPI

DEEP TEST HOLE DATA

DTH#100 DATE: 9/24/20				DTH#101 DATE: 9/24/20				DTH#102 DATE: 9/24/20									
DEPTH FROM SURFACE	SOIL HORIZON	SOIL COLOR	DESCRIPTION	PARENT MATERIAL	TILL	DEPTH FROM SURFACE	SOIL HORIZON	SOIL COLOR	DESCRIPTION	PARENT MATERIAL	TILL	DEPTH FROM SURFACE	SOIL HORIZON	SOIL COLOR	DESCRIPTION	PARENT MATERIAL	TILL
0.0'-0.5'	A	10YR3/2	LDAM		>26.2'	0.0'-1.0'	A	10YR3/2	LDAM		>28.0'	0.0'-1.0'	A	10YR3/2	LDAM		>29.5'
0.5'-1.8'	B	10YR5/8	SANDY LDAM		4.0'	1.0'-4.0'	B	10YR5/8	SANDY LDAM		5.0'	1.0'-4.0'	B	10YR5/8	SANDY LDAM		5.0'
1.8'-3.2'	C ₁	10 Y5/3	LDAMY SAND		N/A	4.0'-5.0'	C ₁	2.5 Y6/4	LDAMY SAND		N/A	5.0'-9.0'	C ₁	10 Y5/3	LDAMY SAND		N/A
3.2'-4.5'	C ₂	2.5Y5/2	SANDY LDAM		N/A	5.0'-8.0'	C ₂	2.5Y5/2	SANDY LDAM		N/A	5.0'-9.0'	C ₂	2.5Y5/2	SANDY LDAM		N/A
4.5'-6.2'	C ₃	5Y5/1	SANDY LDAM		4'	8.0'-9.5'	C ₃	5Y5/1	SANDY LDAM		5'	9.0'-9.5'	C ₃	5Y5/1	SANDY LDAM		5'

NOTES

- THIS PLAN SHALL NOT BE RECORDED OR USED TO ESTABLISH PROPERTY LINES.
 - ZONING CLASSIFICATION: RESIDENCE BU-1.
 - ALL ELEVATIONS SHOWN HEREON REFER TO N.A.V.D. OF 1988.
 - THE PLANIMETRIC SITE FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEY WORK PERFORMED BY THE ROBER SURVEY DATED: 5/11/2020.
 - ANY EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE TOWN AND FIELD SKETCHES AND SHALL BE CONSIDERED APPROXIMATE. FURTHERMORE, THE TOTAL EXTENT OF THE UNDERGROUND UTILITIES IS UNKNOWN.
 - THIS PLAN IS FOR PERMITTING REVISION & APPROVAL.
 - IN LOCATIONS WHERE WATER SERVICE LINES CROSS SEWER LINES AN 18" MIN. VERTICAL SEPARATION SHALL BE PROVIDED.
 - FROM "CITY OF NEWTON, MASS. GENERAL CONSTRUCTION DETAILS" (REVISED THROUGH SEPT. 2020) THE FOLLOWING NUMBERED DETAILS ARE INCORPORATED BY REFERENCE & APPLICABLE TO THE FUTURE CONSTRUCTION WORK.
 - STREET DESIGN & PAVEMENT DETAILS 1, 3, 11 & 19*
 - WATER, SEWER & DRAINAGE 21, 22, 23, 26, 40, 41, 46 & 56
- *SEE "FINAL TRENCH DETAIL" AS ISSUED BY CITY.

REVISIONS

REV	DATE	DESCRIPTION
1	6/29/21	SEWER, WATER & GAS CONNECTIONS



"#55 COLELLA ROAD SITE DEVELOPMENT PLAN"
 LAND IN
NEWTON, MASS.

PREPARED FOR: MICHAEL LOHN
 45 WHITE OAK ROAD
 WELLESLEY, MA 02481
 SCALE: 1" = 10' DATE: 24 JUNE 2021
 PREPARED BY: **THE JILLSON COMPANY, INC.**
 32 FREMONT STREET
 NEEDHAM HEIGHTS, MA 02494
 (781) 400-5946
 www.JILLSONCOMPANY.com