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ADDENDUM – HEBRON AVENUE DRIVEWAY

WATER QUALITY VOLUME CALCULATIONS

PREPARED FOR MANCHESTER/HEBRON AVE, LLC
1199 MANCHESTER RD.
GLASTONBURY, CT
DATE: 6-01-22

AREA = 5,300 SF (Hebron Ave Access Drive Draining to Rain Garden)

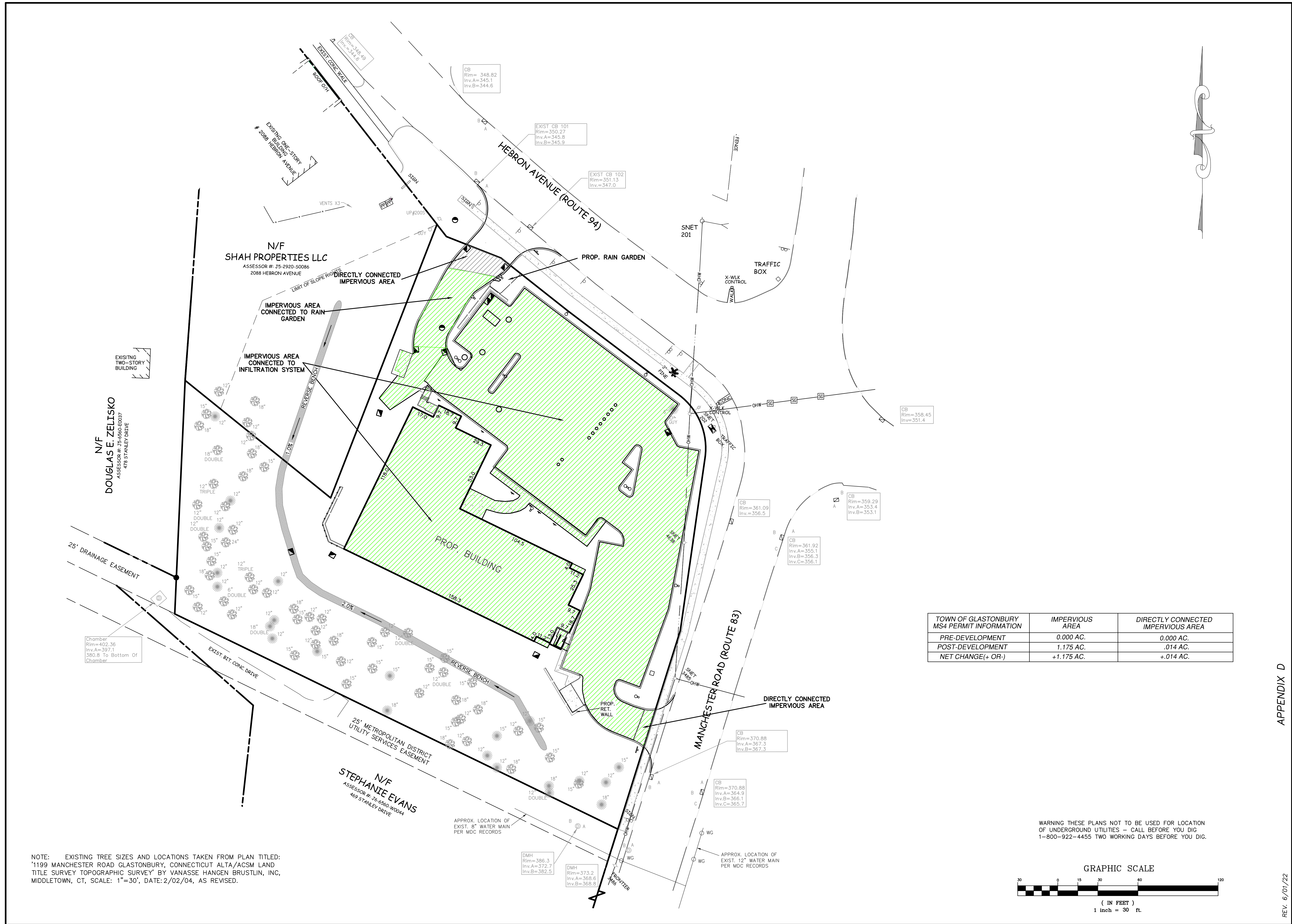
IMPERVIOUS AREA (Draining to Rain Garden) = 1,700 SF

I = .32

$WQV = 1''((.05 + (.9)(.32)) \times 5,300 \text{ sf} / 12'') = 149 \text{ cf}$

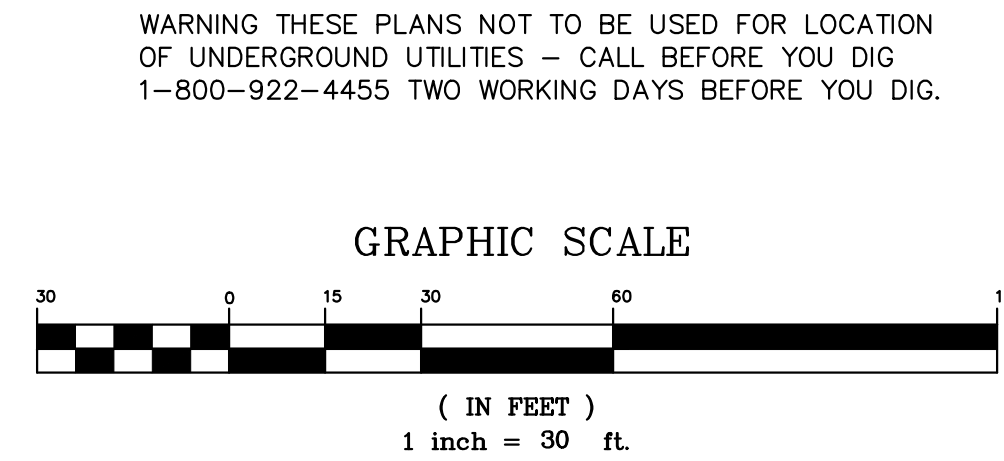
STORAGE IN CRUSHED STONE BELOW RAIN GARDEN = 164 cf

Treatment methods of first 1" rainfall from impervious areas (WQV) that falls on proposed Hebron Ave access driveway and surrounding impervious areas will be sheet flow and discharge via paved leakoff to a rain garden. This volume of water will percolate into soil via bottom of the stone below rain garden over a period up to 24 hours.



NOTE: EXISTING TREE SIZES AND LOCATIONS TAKEN FROM PLAN TITLED: '1199 MANCHESTER ROAD GLASTONBURY, CONNECTICUT ALTA/ACSM LAND TITLE SURVEY TOPOGRAPHIC SURVEY' BY VANASSE HANGEN BRUSTLIN, INC, MIDDLETOWN, CT, SCALE: 1"=30', DATE: 2/02/04, AS REVISED.

TOWN OF GLASTONBURY MS4 PERMIT INFORMATION	IMPERVIOUS AREA	DIRECTLY CONNECTED IMPERVIOUS AREA
PRE-DEVELOPMENT	0.000 AC.	0.000 AC.
POST-DEVELOPMENT	1.175 AC.	.014 AC.
NET CHANGE(+ OR-)	+1.175 AC.	+0.014 AC.



APPENDIX D

POST DEVELOPMENT IMPERVIOUS AREA MAP
 1199 MANCHESTER ROAD
 PREPARED FOR
MANCHESTER/HEBRON AVE LLC
 GLASTONBURY, CONNECTICUT

DATE: 11-08-21
 SCALE: 1"=30'
 SHEET: SP-1
 MAP NO. 21-002-1WQ

WENTWORTH CIVIL ENGINEERS LLC
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I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

Wesley J. Wentworth
 WESLEY J. WENTWORTH
 P.E. # 20360