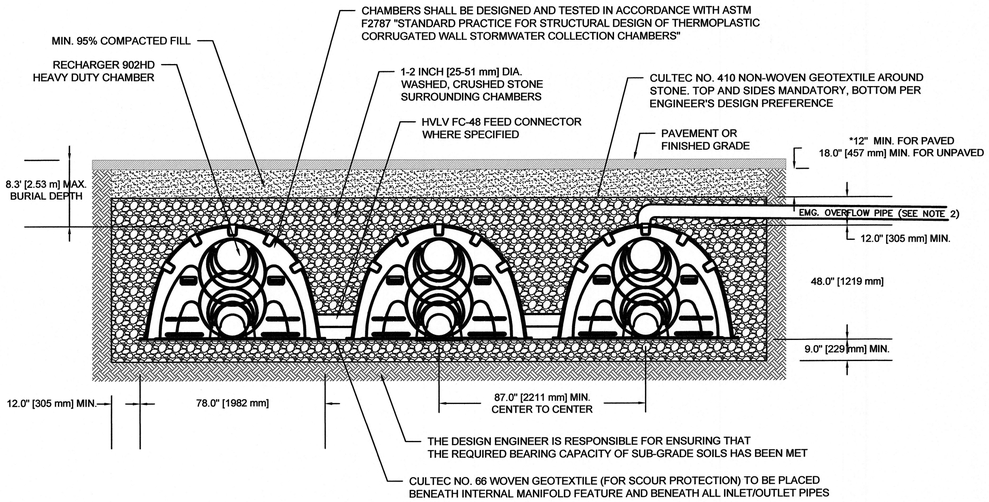
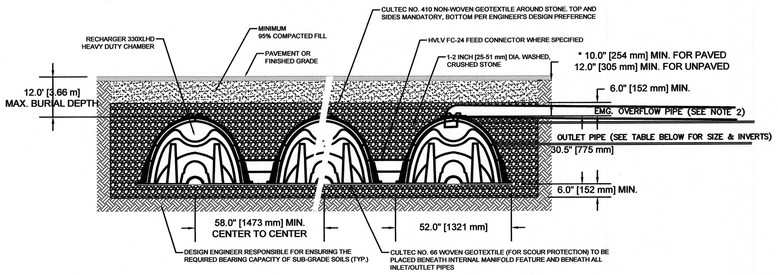


TYPICAL CULTEC RECHARGER 902HD CHAMBER BED DETAIL



TYPICAL CULTEC RECHARGER 330XLHD HEAVY DUTY CHAMBER BED DETAIL

NOTES:
1. CULTEC REQUIRES A MINIMUM OF 8"–12" COMPACTED GRAVEL OVER ITS CHAMBERS WHEN UNDER PAVEMENT (SEE DETAILS), WHEREAS PROJECT REQUIRES 4" DENSE GRADE ATOP 12" GRAVEL BORROW (16" TOTAL). FINISH GRADES IN TABLE REFLECT A MINIMUM OF 20" OVER TOP OF STONE ELEVATION TO ACCOUNT FOR 2 PAVEMENT COURSES (SEE ROAD CROSS SECTION).

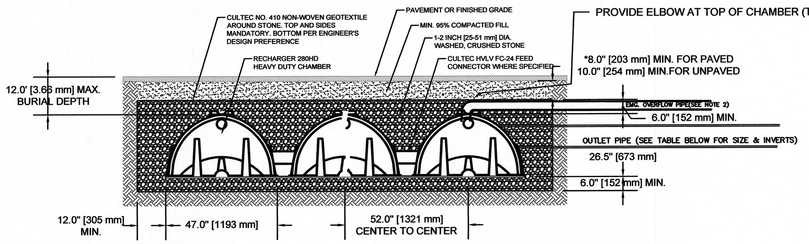
2. SEE UTILITY SHEET FOR EMERGENCY OVERFLOW LOCATIONS. SEE TABLE BELOW FOR SIZE AND ELEVATIONS.

LEACHING BED DETAILS

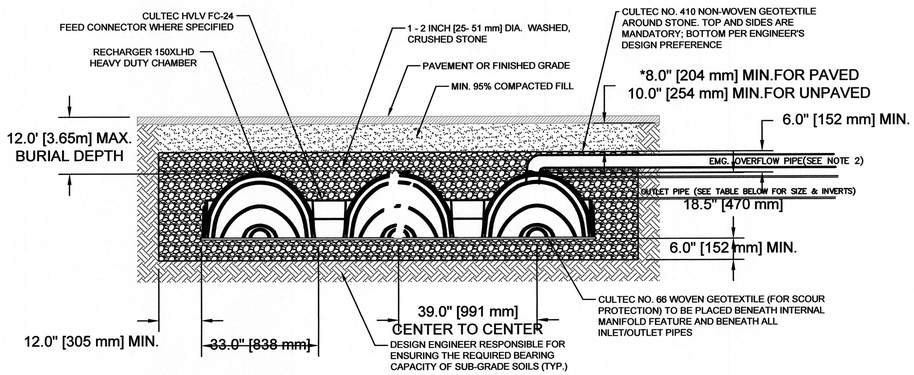
BED #	TYPE	TOTAL # OF CHAMBERS	BED DIM. (W X L' X D')	SIDE STONE (IN.)	END. STONE (IN.)	BOT STONE (EL.)	BOT. CHMBR (EL.)	TOP CHMBR (EL.)	TOP STONE (EL.)	FINISH GRADE	PEAK EL. (100 YR)	OUTLET EL.	GW ELEV.	EMG. OVERFLOW EL
LC–1	150XLHD	32 (4 X 8)	14.5 X 84.75 X 3.29	12	12	192.0	192.75	194.29	195.29	197.25–199.4	195.06	NONE	188.8 (TP–11)	6" EQ. @ 195.2
LC–1A	902HD	22 (2 X 11)	19.5 X 47.37 X 6.0	36	36	191.5	192.5	196.5	197.5	200.0±	197.46	NONE	188.8 (TP 36)	6" EQ @ 198.5
LC–2B	330XLHD	20 (2 X 10)	15.17 X 79.5 X 4.29	36	24*	199.0	200.0	202.54	203.29	205.2–207.8	203.23	NONE	NONE 196.3**	6" EMG. OVERFLOW @ 204.3
LC–2A(1)	330XLHD	14 (2 X 7)	13.17 X 54.5 X 4.54	24	24	196.0	197.0	199.54	200.54	202.5–209.8	200.21	NONE	192.1 (TP–14)	NONE
LC–2A(2)	330XLHD	36 (3 X 12)	18 X 89.5 X 4.29	24	24	194.5	195.75	197.91	198.79	200.7–203.0	198.54	NONE	190.0 (TP–35)	8" EQ. @ 200.1
LC–3	150XLHD	18 (3 X 6)	12.25 X 65.25X 2.54	18	18	197.85	198.35	199.85	200.39	202.1–203.1	200.02	4" @ 199.0	195.1 (TP 15)	NONE
LC–4	280HD	12 (3 X 4)	16.75 X 33.0 X 3.71	24	24	199.3	199.8	202.01	203.01	204.8–206.6	202.97	12" @ 200.9 4" @ 201.5	196.3 (TP–18)	NONE
LC–4A	150XLHD	15 (3 X 5)	15.25 X 56 X 2.54	36	24	197.7	198.2	199.7	200.24	201.95–203.4	199.72	(2) 6" @ 199.0	194.2 (TP–17)	NONE
LC–4B	150XLHD	12 (4 X 3)	14.5 X 33.5 X 2.54	12	12	202.0	202.5	204.0	204.54	207.5–208.5	204.45	(2)10" @ 202.9	199.8 (TP–33)	NONE
LC–4C	280HD	4 (1 X 4)	7.92 X 33.0 X 3.71	24	24	202.5	203.5	205.71	206.21	208.0–210.8	206.17	(3) 8" @ 204.4	199.8 (TP–33)	NONE
LC–5	330XLHD	25 (5 X 5)	29.67 X 42.5 X 3.54	36	36	213.5	214.0	216.54	217.04	219.0–220.8	216.23	NONE	NONE 210.4**	NONE
LC–5A	902HD	40 (4 X 10)	33.25 X 42.7 X 5.75	30	30	208.00	208.75	212.75	213.75	215.8–217.5	213.23	NONE	NONE 210.4**	NONE
LC–6	280HD	27 (3 X 9)	16.08 X 67.33 X 3.21	20	20	210.0	210.5	212.71	213.21	215.2–218.5	212.78	8" @ 212.0 NONE	NONE 206.0**	214.0 IN FROM LC–6A (8" EMG. OVERFLOW)
LC–6(2)	150XLHD	12 (4 X 2)	16.5 X 25.25 X 2.54	24	24	208.5	209.0	210.5	211.04	212.8–213.3	208.95		NONE 209.4**	8" EMG. OVERFLOW @ 210.7
LC–6A	330XLHD	16 (2 X 8)	14.17 X 62.5 X 3.54	30	30	214.0	214.5	217.0	217.54	219.8–222.8	216.18	NONE	NONE 210.7**	8" EMG. OVERFLOW @ 217.2
LC–7	150XLHD	84 (12 X 7)	49.25 X 56.0 X 2.54	24	24	214.0	214.5	216.0	216.54	218.5–221.3	216.16	NONE	206.2 (TP–27)	6" EMG. OVERFLOW @ 216.6
LC–10A	280HD	12 (2 X 6)	14.33 X 49.0 X 3.96	36	36	191.0	191.75	193.96	194.96	198.0±	194.64	NONE	NONE 186.7**	6" EQ. @ 195.2

*END STONE DIM. SHOWN IS THE EFFECTIVE LENGTH WHERE BED IS SPLIT INTO 2 (END STONE USED FOR CALC IS 48".)

**ELEVATIONS INDICATE NO WATER ENCOUNTERED AT BOTTOM HOLE PER NEAREST TEST PIT.



TYPICAL CULTEC RECHARGER 280HD HEAVY DUTY CHAMBER BED DETAIL



TYPICAL CULTEC RECHARGER 150XLHD CHAMBER BED DETAIL

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 36408
REGISTERED PROFESSIONAL ENGINEER
9-8-17

REVISIONS		
1	5/11/17	BETA ENG./TOWN COMMENTS
2	6/16/17	GENERAL
3	8.14.17	GENERAL
4	9.8.17	DRAINAGE BEDS

APPLICANT

THE VILLAGE AT NORFOLK, LLC
32 NORFOLK AVENUE
S. EASTON, MA 02375

OWNERS

PAUL AND PATRICIA KELLEY
25 ROCKWOOD ROAD
NORFOLK, MA 02056
ASSESSORS MAP 14 BLOCK 49 LOT 11
DEED BOOK 11286 PAGE 26

DETAILS SHEET FOR "THE VILLAGE AT NORFOLK"

IN NORFOLK MASSACHUSETTS

Outback Engineering Incorporated
165 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
TEL: (508)–946–9231
FAX: (508)–947–8873
www.outback–eng.com

DATE: FEBRUARY 21, 2017
DRAWN BY: CJV | CHECKED BY: J.A.P.
SCALE: NTS | SHEET 7 OF 10

OE–3012