

UNISCREEN ONLINE SYSTEM / ADAPT TO SITE LAYOUT

DATE: 1-25-08
DWG. NO.: Detail - Uniscreen

UNISCREEN SIZING TABLE

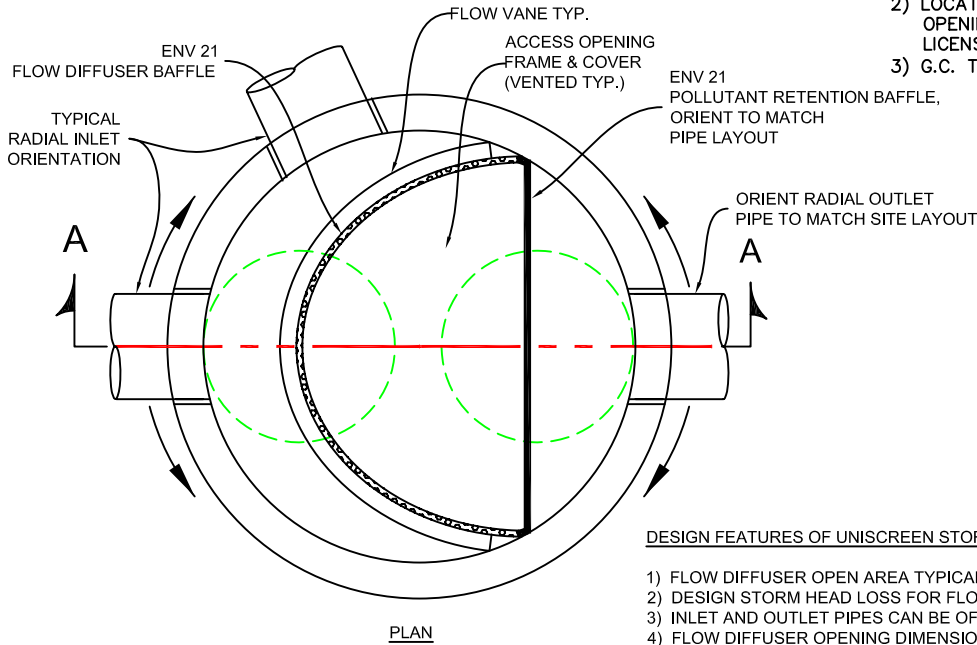
UNISCREEN MODEL #	D (ft.)	MAX. S (ft.)	IMPERVIOUS AREA (acres)	INLET PIPE (in.)	TREATMENT FLOW (cfs)	PEAK FLOW (cfs)
5SC	5	3.5±	0 - 4	12-18	0 - 3	7
6SC	6	3.5±	4 - 10	18-24	3 - 7	16
7SC	7	4.5±	10 - 12	24-30	7 - 10	25
8SC	8	4.5±	12 - 15	30-36	10 - 13	35
10SC	10	5.5±	15 - 20	36-42	13 - 18	48
12SC	12	5.5±	20 - 25	42-48	18 - 22	60

CALL: 1-800-809-2801



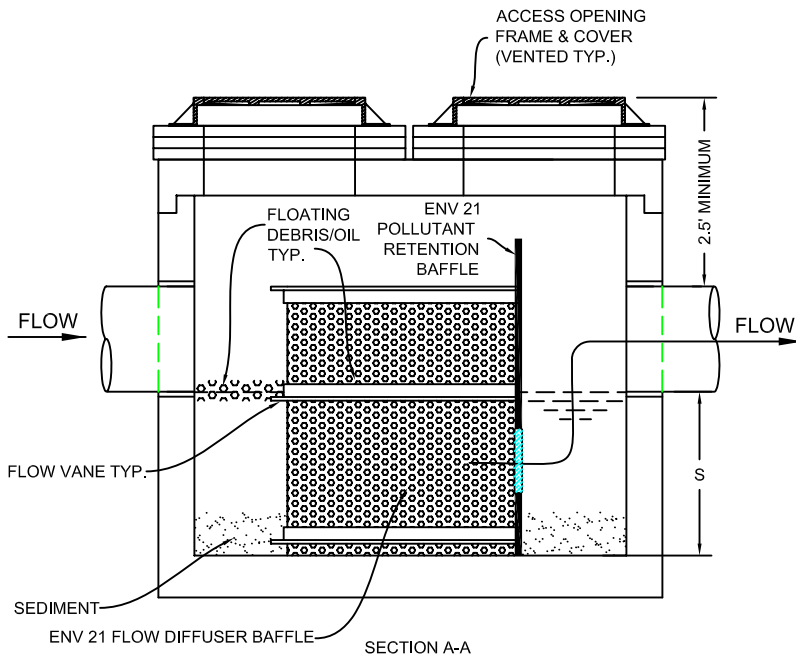
NOTES:

- 1) RAINFALL INTENSITY USED FOR TREATMENT FLOW = 0.80-1.0 IN/HR
 - 2) MAXIMUM OPERATING LOSS APPROXIMATELY 0.5 FT
- MANUFACTURING NOTES:**
- 1) DESIGN OF INTERNAL SCREEN AND BAFFLE WALL PROVIDED TO LICENSED MANUFACTURER BY ENVIRONMENT 21, LLC.
 - 2) LOCATION AND SIZE OF MANHOLE OPENINGS MAY BE ADJUSTED BY LICENSED MANUFACTURER.
 - 3) G.C. TO GROUT INLET AND OUTLET PIPES.



DESIGN FEATURES OF UNISCREEN STORMWATER TREATMENT CHAMBER

- 1) FLOW DIFFUSER OPEN AREA TYPICALLY 8-10 TIMES FLOW AREA OF OUTLET PIPE.
- 2) DESIGN STORM HEAD LOSS FOR FLOW DIFFUSER MODULE TYPICALLY LESS THAN 0.25 FT
- 3) INLET AND OUTLET PIPES CAN BE OFFSET TO MEET SITE CONDITIONS.
- 4) FLOW DIFFUSER OPENING DIMENSIONS SPECIFIED BY ENV 21.
- 5) FOR IMPROVED SCREENING, SPECIFY OPENING DIMENSION OF 1/6" (4500 MICRONS).
- 6) SITE-SPECIFIC PRODUCT DETAIL DRAWING PREPARED BY ENVIRONMENT 21 AVAILABLE.



TREATMENT NOTES:

- 1) CPS (CRITICAL PARTICLE SIZE) REPRESENTS AN ESTIMATE OF THE SMALLEST SEDIMENT PARTICLE THAT CAN BE REMOVED AT 80% EFFICIENCY.
- 2) STORMWATER FLOWING IN THE INLET PIPE CAN EXPERIENCE SEDIMENT STRATIFICATION THAT PROVIDES IMPROVED REMOVAL OF SEDIMENT.
- 3) STORMWATER FLOWING IN THE INLET PIPE CAN EXPERIENCE FLOATABLES STRATIFICATION THAT PROVIDES IMPROVED REMOVAL OF FLOATING POLLUTANTS (OILS ORGANIC DEBRIS)

UNISCREEN FLOW DIFFUSER AREA	
MODEL #	SCREEN AREA, S.F.
5SC	35
6SC	51
7SC	59
8SC	68
10SC	99
12SC	119

GENERAL NOTES:
MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C478 SPEC. FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.

DESIGN LOADING: AASHTO HS20-44

PROPRIETARY INFORMATION: PATENTS PENDING - ALL RIGHTS TO ENVIRONMENT 21, LLC.