

BIO CLEAN ENVIRONMENTAL MODEL NO. NSBB 8-12-96

FLOW, TREATMENT, & BYPASS SPECIFICATIONS FOR THE BIOMASS SEPARATING BASKET

RECOMMENDED PIPE SIZES: 36" to 48"

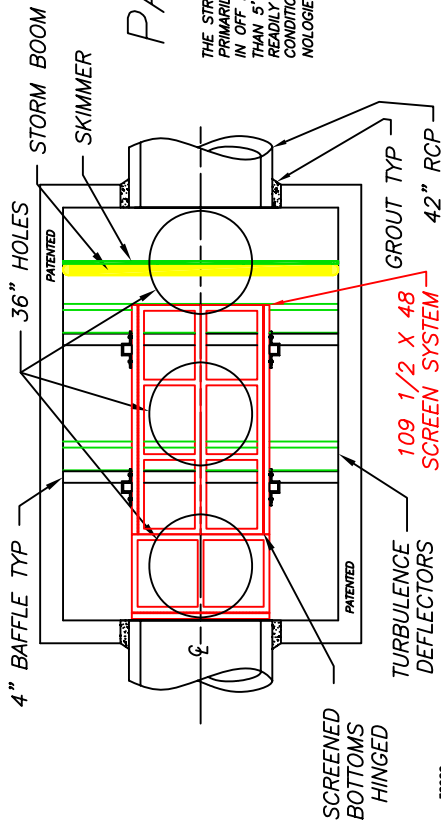
- 1. Inflow Pipe Area _____ 9.6 SQ.FT.
- 2. Open Orifice Area in Biomass Separating Basket _____ 45.4 SQ.FT.
- 3. Treatable Flow Area With No Blockage _____ 45.4 SQ.FT.
- 4. Treatable Flow Area With 50% Blockage _____ 22.7 SQ.FT.
- 5. Treatable Flow Area With 75% Blockage _____ 34.1 SQ.FT.
- 6. Minimum Bypass Available (With Basket 100% Full) _____ 10.2 SQ.FT.

BASKET STORAGE = 81.6 CU. FT. (3.0 CU YD.)

SEDIMENT STORAGE

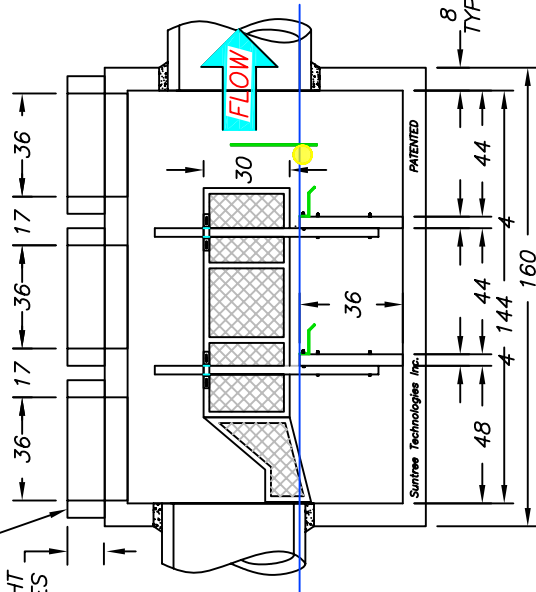
- Lower Front Chamber _____ 96 CU. FT.
- Lower Middle Chamber _____ 88 CU. FT.
- Lower Rear Chamber _____ 88 CU. FT.

TOTAL 272 CU. FT. (10 CU YD.)

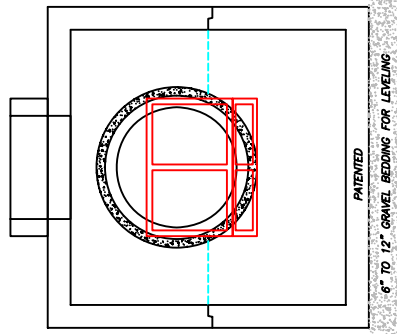


PLAN VIEW

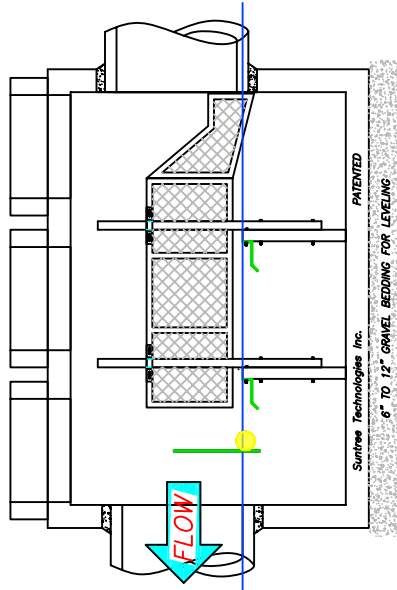
FRONT VIEW



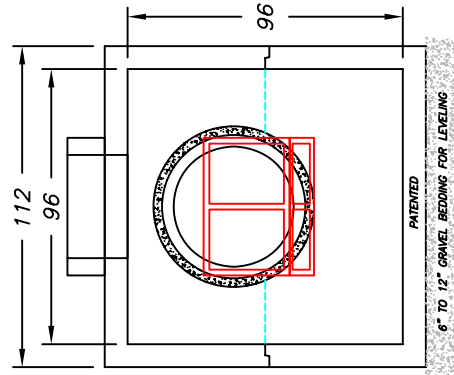
FRONT VIEW



LEFT END VIEW



REAR VIEW



RIGHT END VIEW

PATENTED

THE STRUCTURE IN THIS DRAWING IS PRIMARILY INTENDED TO BE INSTALLED IN OFF ROAD LOCATIONS WITH LESS THAN 5' OF COVER. STRUCTURES ARE READILY AVAILABLE FOR ALL OTHER CONDITIONS. CONSULT SUNTREE TECHNOLOGIES' REPRESENTATIVE FOR DETAILS.

NOTES:

1. CONCRETE 28 DAY COMPRESSIVE STRENGTH f_c = 5,000 PSI.
2. REINFORCING: ASTM A-615, GRADE 60.
3. SUPPORTS AN H2O LOADING AS INDICATED BY AASHTO.
4. JOINT SEALANT: BUTYL RUBBER SS-S-00210
5. ALL WALLS, TOP + BOTTOM ARE 8" THICK.

PEAK DESIGN FLOW
75.4 C.F.S.

(BASED ON 6 FT. PER SEC. FLOW MULTIPLIED BY THE MIN. BYPASS AVAILABLE.)

DISTRIBUTED BY:
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PROJECT: SUNTREE TECHNOLOGIES SPEC.	
REVISIONS:	DATE: 01/06/04
REVISIONS:	DATE:
REVISIONS:	DATE:
REVISIONS:	DATE:
SUNTREE TECHNOLOGIES, INC. 798 CLEARLAKE RD SUITE #2 COCOA, FL 32922	
NUTRIENT SEPARATING BAFFLE BOX MODEL NO. NSBB 8-12-96	
DATE: 01/01/04	SCALE: SF = 72
DRAFTER: N.R.B. UNITS = INCHES	

ide of the second baffle, and span the full width of the baffle box.

13. The stormwater treatment system will be precast concrete. The concrete will be 28 day compressive strength $f_c = 5,000$ psi. Steel reinforcing will be ASTM A - 615 Grade 60. Structure will support an H2O loading as indicated by AASHTO. The joint between the concrete sections will ship lap and the joint sealed with Ram-Nek or equal butyl rubber joint sealant.

14. For access into the stormwater treatment system, two to three holes will be cast into the top of the vault.

15. The inflow and outflow pipes will not intrude beyond flush with the inside surface of the Nutrient Separating Baffle Box. The space between the pipe holes in the ends of the stormwater treatment system and the outside surface of the pipe will be filled with non-shrink grout to form a water proof seal.

16. The nutrient separating screen system shall extended more than half way of the internal length of the stormwater treatment system. The nutrient separating screen system shall start at the inflow pipe not more than 4" from the wall of the inflow pipe.

17. The stormwater treatment system must have two separate reports verifying no scouring occurs at flows equal to or greater than the specified treatment flow rate for that particle size distribution.

18. The stormwater treatment system shall have a shallow sump, not more than 48" from invert of outflow pipe to bottom floor of the sump area.

19. The stormwater treatment system must have a minimum of two sediment chambers (sump areas) which are separated by a vertical pier that divides the chamber from the bottom of the sump to the invert of the outflow pipe. No openings are allowed at the bottom or coming up vertically along the pier. Or any other method that would connect the two chambers together such as orifices.