

AQUA-BARRIER STANDARD HEIGHTS & DIMENSIONS

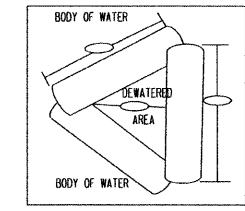
INFLATED HEIGHT (FT)	LAYFLAT WIDTH EMPTY (FT)	LAYFLAT WIDTH INFLATED (FT)	GALLONS PER LINEAR FOOT	100 FT SECTION WEIGHT	MAXIMUM**DEPTH OF WATER (IN)
2 (22 OZ) (30 OZ)	5	4	60	188 320	18
3 (22 OZ) (30 OZ)	8.5	7	158	270 516	27
4 (22 OZ) (30 OZ)	12	10	256	392 600	36
5 (30 OZ)	15	12.5	390	931	45
6 (30 OZ)	18	15	564	1098	54
7 (30 OZ)	21	17.5	770	1224	63
8 (30 OZ)	24	20	1007	1620	72

WATER-INFLATED DAM CONNECTION REQUIREMENTS

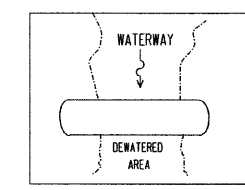
EACH INFLATED SECTION IS STRAIGHT WITHOUT THE ABILITY TO BEND. WHEN JOINING SECTIONS, AN OVERLAPPING TECHNIQUE IS USED. SIMPLY PLACE THE SECTION TO BE INFLATED ON TOP OF THE END OF THE INFLATED SECTION AND BEGIN THE INFLATION PROCESS. THE AMOUNT OF OVERLAP WILL BE DETERMINED BY BARRIER HEIGHT.

WHEN CONNECTING SECTIONS A MINIMUM OF 8 FT TO 12 FT LOSS OF BARRIER LENGTH WILL BE EXPERIENCED. ALLOWANCES SHOULD BE MADE FOR THE LOSS IN LENGTH OF THE SECTIONS DUE TO THE OVERLAP CONNECTION.

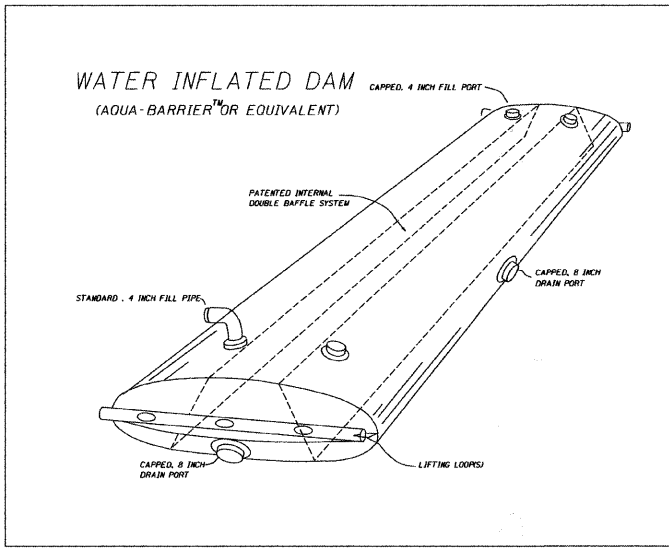
INFLATED HEIGHT (FT)	OVERLAP LENGTH (FT)
2	3
3	4.5
4	6
5	7.5
6	9
7	10.5
8	12



BRIDGE PIER CONFIGURATION



CROSS CHANNEL CONFIGURATION



WATER INFLATED DAM (AQUA-BARRIER™ OR EQUIVALENT)

WATER INFLATED DAM PRODUCT SPECIFICATION

(AQUA-BARRIER™ OR EQUIVALENT)

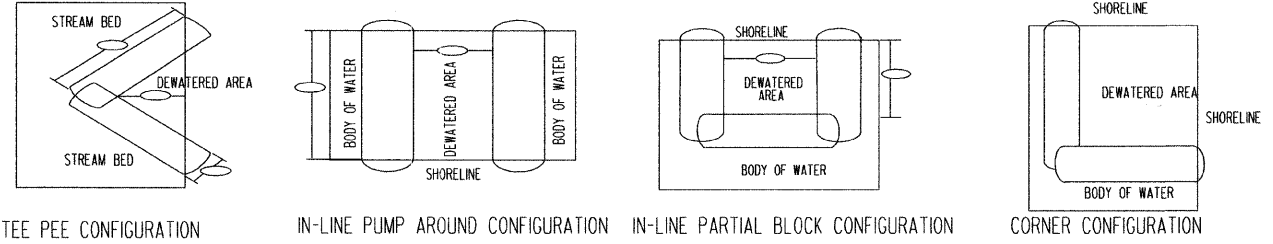
- L1 SPECIFICATION
- A WATER-INFLATED TEMPORARY DAM (AQUA-BARRIER™ OR EQUIVALENT) SHALL CONSIST OF THE FOLLOWING:
- 1) THE WATER INFLATED DAM WILL CONSIST OF A SELF CONTAINED, SINGLE TUBE WITH AN INNER RESTRAINT BAFFLE(S)/DIAPHRAGM(S) STABILIZATION SYSTEM. THE WATER-INFLATED DAM MUST HAVE THE ABILITY TO STAND ALONE, WITHOUT ANY ADDITIONAL EXTERNAL MECHANICAL OR GRAVITATIONAL STABILIZATION DEVICES, AS A POSITIVE WATER BARRIER AND WATER MANAGEMENT SYSTEM.
 - 2) THE WATER-INFLATED DAM SHALL BE PRODUCED FROM HEAVY GAUGE POLYVINYL CHLORIDE (PVC) REINFORCED WITH POLYESTER. THE PVC FABRIC USED TO CREATE THE INFLATABLE DAM WILL BE INFELD REPAIRABLE UTILIZING A VINYL ADHESIVE AND PATCH MATERIAL.
 - 3) THE WATER-INFLATED DAM MUST MAINTAIN MECHANICAL STABILITY IN ADDITION TO PROVIDING ANTI-ROLLING WHEN EXPOSED TO UNEVEN HYDROSTATIC PRESSURE FROM EITHER SIDE.
 - 4) THE SELF-CONTAINED WATER INFLATED DAM SHALL HAVE THREADED FILL PORTS AND DRAIN PORTS FOR RAPID INFLATION AND DRAINING. THE DAM WILL BE EQUIPPED WITH END LIFTING LOOPS USED TO CONTROL THE DAM WITH EQUIPMENT DURING THE INSTALLATION AND REMOVAL PROCESS.
 - 5) METHOD FOR CONNECTING THE INDIVIDUAL UNITS TOGETHER WILL CONSIST OF OVERLAPPING THE END OF THE UNITS A SPECIFIC LENGTH WHICH WILL CREATE A WATERTIGHT CONNECTION. NO OTHER DEVICES OR METHODS FOR CONNECTING THE BARRIERS ARE REQUIRED.

L2 PRODUCT DESCRIPTION

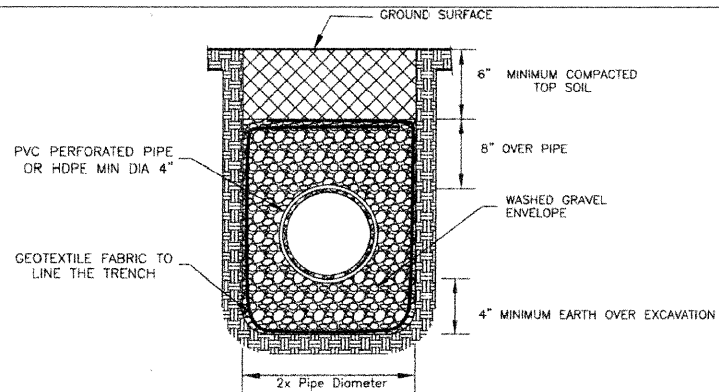
WATER-INFLATED DAMS ARE USED TO CONTROL INVASIVE WATER IN FLOODWATER SITUATIONS, AS A MEANS OF WATER MANAGEMENT TO PROVIDE ACCESS TO UNDERWATER AREAS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS, HAZARDOUS LIQUID CONTAINMENT, SEDIMENT RETENTION IN ENVIRONMENTALLY SENSITIVE AREAS IN ADDITION TO A CONTINUALLY EXPANDING LIST OF WATER CONTROL RELATED APPLICATIONS.

- L3 DAM SIZE REQUIREMENTS
- THE WATER-INFLATED TEMPORARY DAM HEIGHT SHALL BE DETERMINED AS FOLLOWS:
- 1) STATIC WATER HEIGHT CONDITIONS SHALL NOT EXCEED 75% OF THE PROPERLY FILLED HEIGHT OF THE BARRIER.
 - 2) DYNAMIC WATER HEIGHT CONDITIONS SHALL NOT EXCEED STATED VALUE DURING HYDRODYNAMIC INSTALLATION PROCEDURES (SEE DYNAMIC INSTALLATION INSTRUCTIONS FOR COMPLETE LIST OF REQUIREMENTS.)
 - 3) INSTALLATION SITE CRITERIA ARE REQUIRED FOR ASSESSMENT OF ALL RELEVANT FACTORS.

EXCESS SLOPE, HIGH WATER VELOCITIES, DYNAMIC LOADS RESULTING FROM WAVE ACTIONS, MOUNTING SURFACE IRREGULARITIES, AND CHANGES IN INTERRELATED HYDROLOGICAL CONDITIONS CAN INCREASE THE REQUIRED WATER INFLATED DAM HEIGHT VERSUS RETENTION HEIGHT REQUIREMENTS.



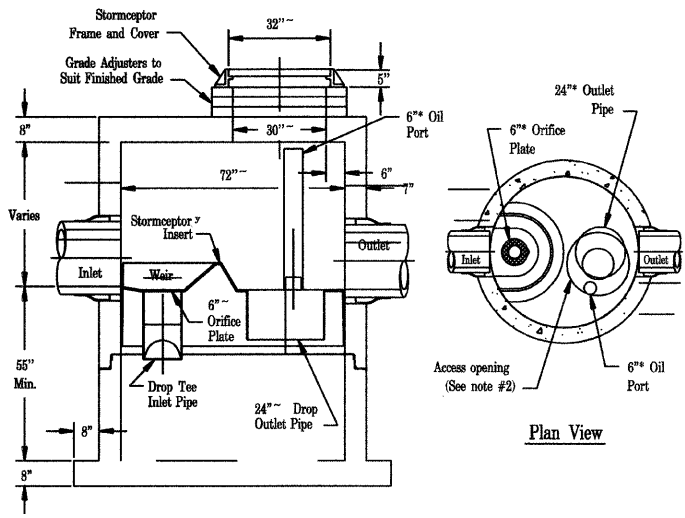
TEE PEE CONFIGURATION IN-LINE PUMP AROUND CONFIGURATION IN-LINE PARTIAL BLOCK CONFIGURATION CORNER CONFIGURATION



DRAIN TILE TRENCH DETAIL

NOTE: LOCATE DRAIN TILE TO AVOID CONFLICT DURING GUARD RAIL INSTALLATION

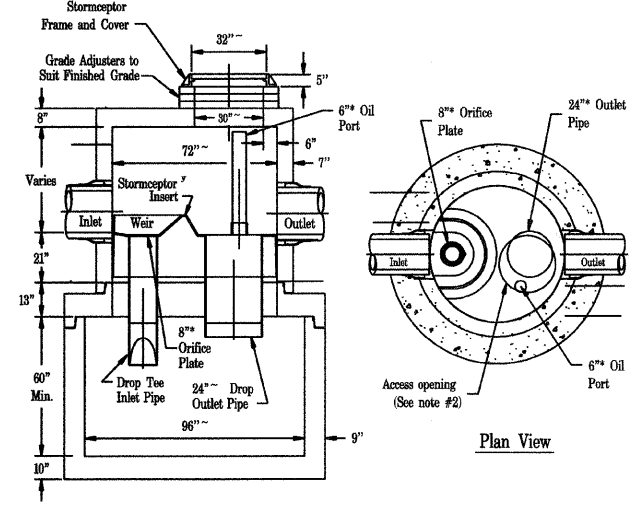
STC 900 Precast Concrete Stormceptor (900 U.S. Gallon Capacity)



Section Thru Chamber

- Notes:
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
 2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5726760, #5753115, #5849181, #6068765, #6371690.
 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

STC 2400 Precast Concrete Stormceptor (2400 U.S. Gallon Capacity)



Section Thru Chamber

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 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
EDGEWOOD TO HUNTINGTON

CONSTRUCTION DETAILS

DATE: 02-19-09 DRAWN BY: AJR CHECKED BY: MAY

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS