

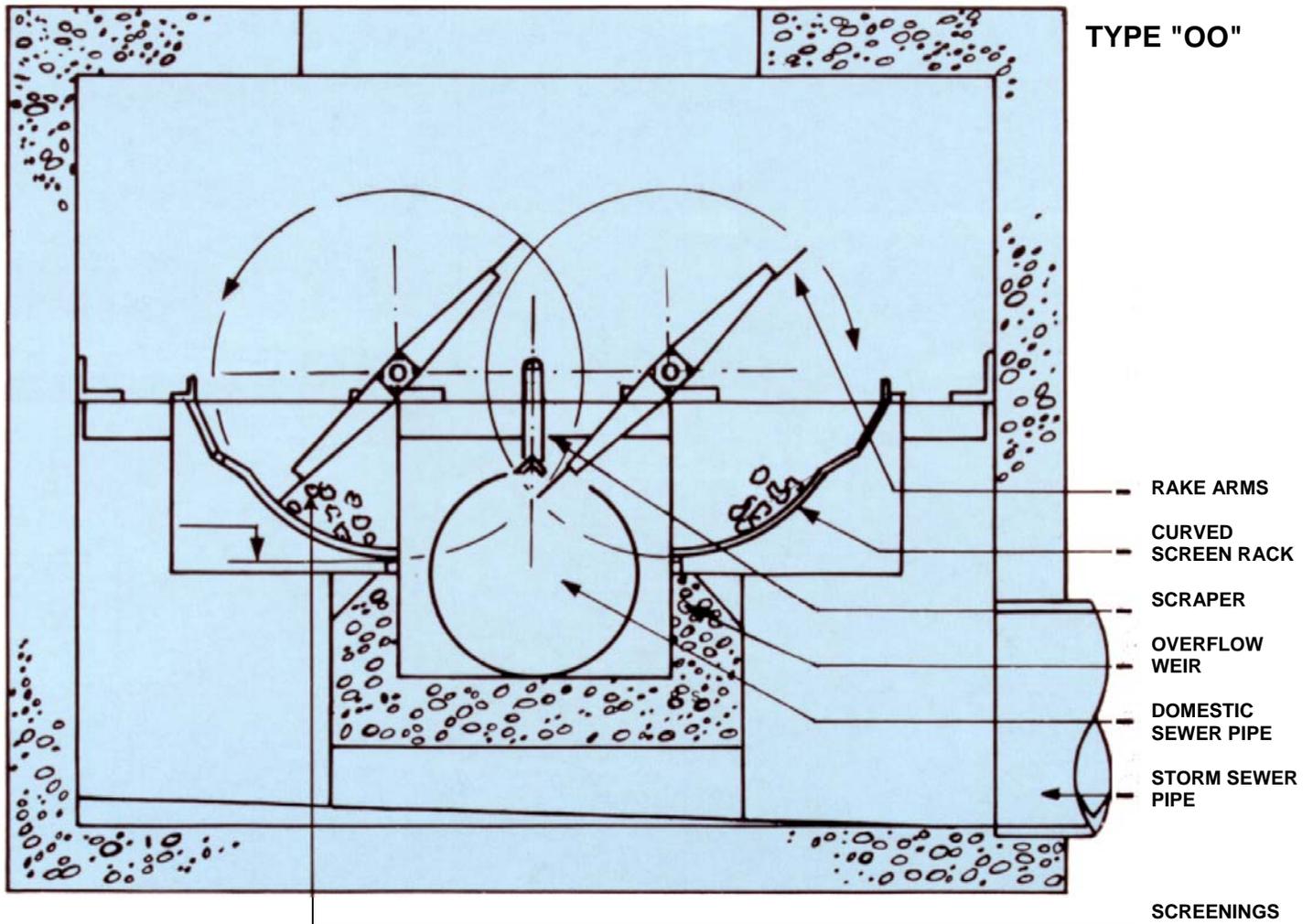
# CSO/STORMWATER MANAGEMENT



## Rotarc<sup>®</sup> SOS<sup>™</sup> Storm Overflow Screens



## THE EQUIPMENT



## PRINCIPLES OF OPERATION

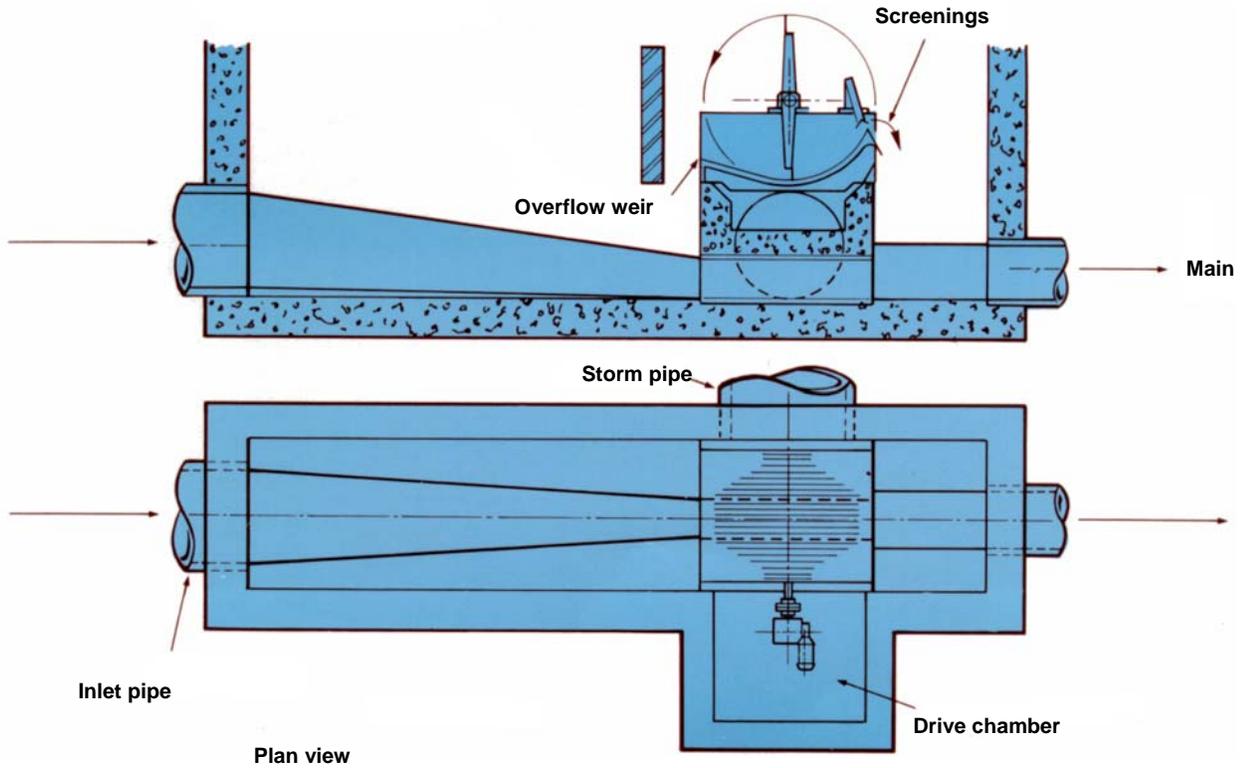
The **ROTARC® SOS™** Storm Overflow Screen provides a simple and practical means of preventing solids from being carried away with the storm overflow.

The screen consists of a robust and mechanically raked curved bar screen that was specifically designed to provide the maximum possible area for a given weir length. It can be utilized for both single or double-sided overflow weir layouts. The screenings that accumulate on the bar rack are removed by the rake mechanism in such a way that they are returned to the channel and carried away by the on flow to the sewage treatment plant. The stormwater is allowed to overflow freely through the bars towards its final destination.

# TYPE "O"



# TYPE "CM/O"





### ALL ROTARY STORM OVERFLOW SCREENS INCORPORATE THE FOLLOWING FEATURES:

#### ***NO SCREENINGS HANDLING PROBLEMS***

In all cases, screenings are returned to the sewer to be carried away by the onflow and the screened stormwater is freely discharged.

#### ***COMPLETE SCREENING***

The rake teeth pass right through the screen bars giving complete clearance.

#### ***MINIMUM MAINTENANCE***

Sealed for life bearings are used throughout the full product line.

#### ***OVERLOAD PROTECTION***

Electrical or mechanical overload in addition to normal starter overloads.

#### ***PROVEN DESIGN***

Well over 300 Rotary Storm Overflow Screens are in operation.

#### ***BAR SPACING***

The most common bar spaces are  $\frac{1}{2}$ ,  $\frac{3}{4}$ ". Other spaces can be accommodated to suit particular requirements.

#### ***CURVED BAR SCREEN***

Gives the maximum possible screening area for a given weir length.

#### ***FIXED CLEARANCE***

Two rakes give a rapid removal of solids and a scraper returns them to the sewer. (An alternative method with the CM/O is to return the screenings by water washed trough)

#### ***SIMPLE DESIGN***

Simple rotary action driven by a direct coupled geared motor or raised drive unit can be supplied if required. (The CM/O screen drive unit can, if required, be housed in a separate sealed chamber).

#### ***UNIT CONSTRUCTION***

The screen is constructed as a complete heavy-duty unit to fit the weir, with a minimum amount of civil work. In longer weirs, the screen is built up in bays with intermediate bearings.

**ROTARY OVERFLOW SCREENS** are suitable for most applications, but where necessary, we can supply a specially designed screen for a particular installation.



ISO 9001 : 2000

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