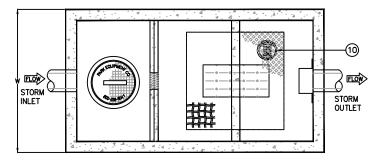
STORMTROOPER, U.S. PATENT 7,470,361



PLAN VIEW

GENERAL INFORMATION STORMWATER INTERCEPTORS ARE UTILIZED TO REDUCE NON-POINT SOURCE POLLUTION ASSOCIATED WITH OIL AND SEDIMENT. THE INTERCEPTOR IS DESIGNED TO ALLOW FOR THE DETAINMENT OF SETTLABLE & FLOATABLE SOLIDS & LIQUIDS.

GUARANTEED PERFORMANCE PRE-ENGINEERED COALESCING MEDIA PACKS ARE UTILITZED FOR ENHANCED ARE UTILIZED FOR ENHANCED SEPARATION WHICH PROVIDE SUPERIOR PERFORMANCE COMPARED TO OTHER SEPARATORS WHICH UTLILIZE BAFFLES OR DIVERTERS.

MAINTENANCE

THE INTERCEPTOR SHOULD BE INSPECTED ON A REGULAR BASIS TO DETERMINE PROPER OPERATION AND CLEANING. THE STORMTROOPER HAS BECOME KNOWN IN THE INDUSTRY AS THE "EASIEST TO MAINTAIN." HATCHWAY DESIGN MAKES INSPECTION AND VAULT ENTRY ACCESSIBLE FOR MAINTENANCE.

ALL COMPARTMENTS ALLOW FOR THE LARGER HOSE ASSOCIATED WITH VACTOR TRUCK PUMP OUT. MAINTENANCE INSTRUCTIONS AND LOGS ARE AVAILABLE FROM PARK ENGINEERING.

MAX

SURFACE EFFECTIVE LENGTH

(ACRES)

0.13

0.33

0.50

0.79

0.20

(SQ FT)

100

248

369

588

MODEL

NO.

SWAQ-05

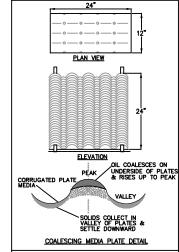
(9)

RATE

(apm)

600

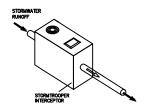
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COALESCING PLATE OPERATION

THE COALESCING MEDIA PACKTM CONSISTS OF CLOSELY SPACED CORRUGATED PLATES ANALY CAUTURED WITH AN OLEOPHILLIC (OIL ATTRACTING) MATERIAL. THE PATENTED PLATES ARE AN ENHANCED VERSION OF THE PLATES UTILLIZION THE ROYAL DUTCH SHELL PRINCIPLE. THE CORRUGATED PATTERN INDUCES A SINUSOIDAL LAMINAR PLOW CONDITIONS, BUDYANCY FORCES CAUSE OIL DROPLETS TO ISSE UNIT. HELY ADHERE THEMSELVES TO THE OLEOPHILIC PLATES. SMALL OIL DROPLETS TEND TO COALESCE INTO SHEETS OF OIL ON THE TOWN SHEETS OF THE OFFICE OF THE OIL PLATES. SMALL OIL DROPLETS TEND TO COALESCE INTO SHEETS OF OIL ON THE TOWN SHEETS OF THE PROMOTES A HIGH INCIDENCE OF PROPERTY COLLISION AS THE PROMOTES A HIGH INCIDENCE OF PROPERTY COLLISION AS THE PROMOTES A HIGH INCIDENCE OF PROPERTY COALESCE OIL RESISTS OF THE SHEETS OF THE ORDER OF THE OIL SHEETS OF THE OIL SHEET THE COALESCING MEDIA PACKTM CONSISTS OF CLOSELY SPACEI RISES TO THE SURFACE IN LARGE GLOBULES THROUGH WEEP HOLES OR GUTTERS IN THE COALESCING PLATE PACK.

	KEYED NOTES		
	MARK	QTY	DESCRIPTION
	1	1	36" X 36" GALV. STEEL FRAME & COVER, RATED FOR H20 TRAFFIC LOADING W/ SAFETY NET (CAST IN OR LOOSE)
	2	1	DUCTILE IRON RING/ COVER
	3	1	GALV. STEEL TRASH SCREEN
[4	1	WATER QUALITY ORIFICE
	5	-	BITUMASTIC EXTERIOR COATING
[6	1	CONTROL BAFFLE
	7	1	EFFLUENT BAFFLE W/ ANTI-SIPHON
	8	1	COALESCING MEDIA PACK (SEE DETAIL)
Ī	9	1	MONOLITHIC BAFFLE
	10	-	NAMEPLATE: MFG: PARKUSA 888-611-PARK WWW.PARKUSA.COM MODEL: SWAQ-XX DATE MANUFACTURED



SWAQ-10 SWAQ-20 1440 SWAQ-25 SWAQ-40 2250 SWAQ-70 2720 NAMEPLATE SWAQ-110 4000 STORM FLOW FLOW INLET STORM OUTLET (8) 纲 (5)-

ELEVATION

SPECIFICATIONS

CONCRETE: DESIGN STRENGTH OF 4500 PSI AT 28 DAYS.

DIMENSIONS

WIDTH

7'-10" 4'-4" 7'-0"

730 0.98 18'-0" 9'-0" 6'-10" 4'-0"

913 1.23 21'-2" 11'-2" 6'-10" 4'-0"

8'-8" 5'-0" 7'-0" 4'-0"

11'-0" 6'-0" 7'-6" 4'-0"

13'-0" 7'-0" 8'-0" 4'-0"

16'-0" 8'-6" 8'-0" 4'-0"

HEIGHT MINIMUM

SETTLING

4'-0"

UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER

TO REQUIRED DEPTH.

CRADE 60 REINFORCED WITH STEEL #4 REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL. REINFORCEMENT:

MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A536, AASHTO M306, & AASHTO M105 D.I. CASTINGS: STANDARDS. MANHOLE SHALL BE NOMINAL 24"

DIAMETER AND BE TRAFFIC DUTY.

GALVANIZED STEEL SKID-RESISTANT DOUBLE LEAF HATCHWAYS:

H-20 RATED.

ENGINEERING DATA

INTERCEPTOR IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED CONFORMING TO UNIFORM PLUMBING CODE. NOMINAL CAPACITY AS INDICATED. FIELD EXCAVATION AND PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF INTERCEPTOR. USE DIMENSIONAL DATA AS SHOWN.









DATE

2023



STORMWATER INTERCEPTOR

MODEL SWAQ 05 THRU 110 DRN ENG DWG. NO. PC

SWAQ-1

REV.

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PM BY ON 4/18/2024 BY ----

(6)