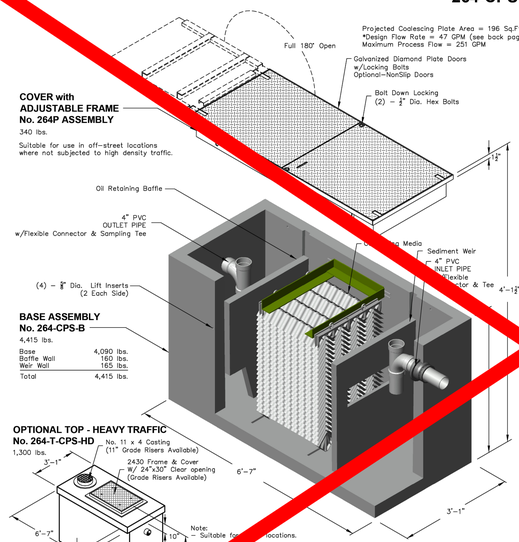
264-CPS



Oldcastle Precast®	264-CPS	264-CPS OIL / WATER SEPARATOR COALESCING - 47 GPM
[illegible] 323, Wilsonville, Oregon 97070-0323	File Name: 020-264CPS	
[illegible] (503) 682-2844 Fax: (503) 682-2657	Issue Date: 2018	
	oldcastleprecast.com/wilsonville	

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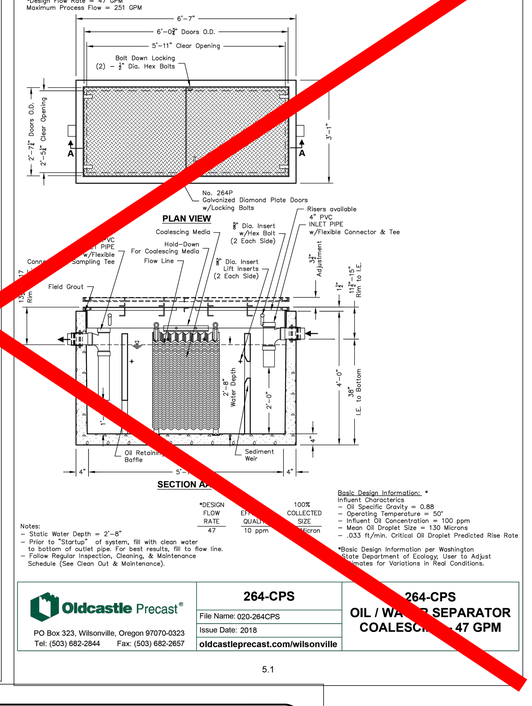
264-CPS

Projected Coalescing Plate Area = 196 Sq.Ft.
*Design Flow Rate = 47 GPM
Maximum Process Flow = 251 GPM



Notes:
- Static Water Depth = 2'–8"
- Prior to "Startup" of system, fill with clean water to bottom of outlet pipe. For best results, fill to flow line.
- Follow Regular Inspection, Cleaning, & Maintenance Schedule (See Clean Out & Maintenance).

*DESIGN FLOW RATE	EFFLUENT QUALITY	100% COLLECTED SIZE
47	10 ppm	[illegible] micron

Basic Design Information: *
Influent Characteristics
- Oil Specific Gravity = 0.88
- Operating Temperature = 50°
- Influent Oil Concentration = 100 ppm
- Mean Oil Droplet Size = 130 Microns
- .033 ft/min. Critical Oil Droplet Predicted Rise Rate

*Basic Design Information per Washington State Department of Ecology. User to Adjust Calculations for Variations in Real Conditions.

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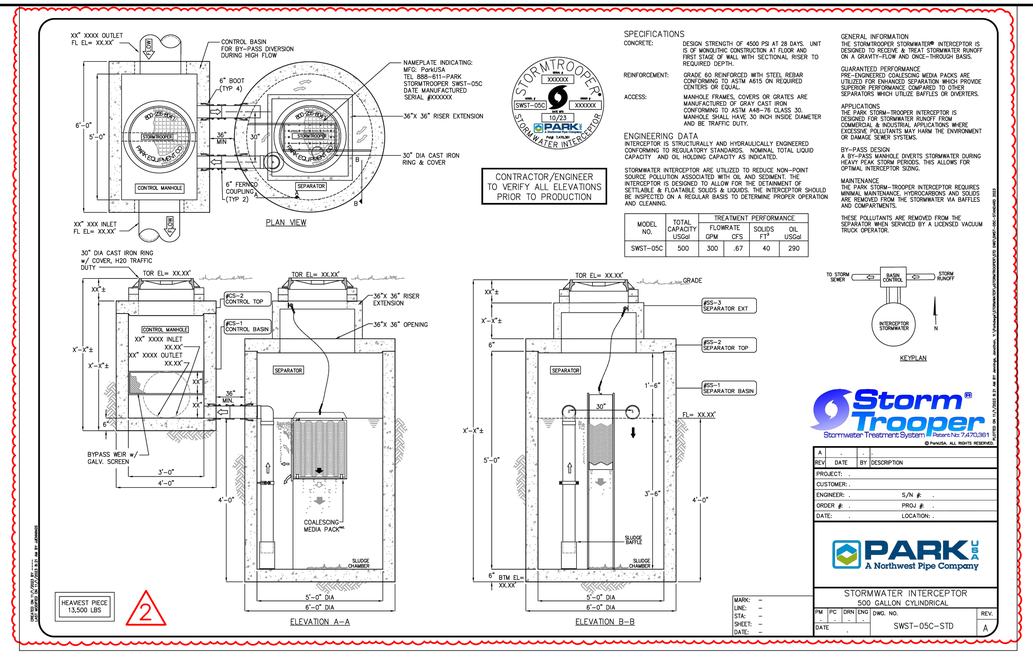


SPECIFICATIONS

CONCRETE: DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

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

ACCESS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GRAY CAST IRON CONFORMING TO ASTM A48–76 CLASS 30. MANHOLE TRAPS HAVE 30 INCH INSIDE DIAMETER AND ARE TRAFFIC DUTY.

ENGINEERING DATA

INTERCEPTOR IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED CONFORMING TO REGULATORY STANDARDS. NOMINAL TOTAL LIQUID CAPACITY AND OIL HOLDING CAPACITY AS INDICATED.

STORMWATER INTERCEPTOR 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. THE INTERCEPTOR SHOULD BE INSPECTED ON A REGULAR BASIS TO DETERMINE PROPER OPERATION AND CLEANING.

MODEL NO.	TOTAL CAPACITY USGal	TREATMENT PERFORMANCE FLOWRATE GPM	FLOWRATE CFS	SOLIDS FT³	OIL USGal
SWST–05C	500	300	.67	40	290

GENERAL INFORMATION

THE STORMTROOPER STORMWATER® INTERCEPTOR IS DESIGNED TO RECEIVE & TREAT STORMWATER RUNOFF ON A GRAVITY–FLOW AND ONCE–THROUGH BASIS.

GUARANTEED PERFORMANCE

PRE–ENGINEERED COALESCING MEDIA PACKS ARE UTILIZED FOR ENHANCED SEPARATION WHICH PROVIDE SUPERIOR PERFORMANCE COMPARED TO OTHER SEPARATORS WHICH UTILIZE BAFFLES OR DIVERTERS.

APPLICATIONS

THE PARK STORM–TROOPER INTERCEPTOR IS DESIGNED FOR STORMWATER RUNOFF FROM COMMERCIAL & INDUSTRIAL APPLICATIONS WHERE EXCESSIVE POLLUTANTS MAY HARM THE ENVIRONMENT OR DAMAGE SEWER SYSTEMS.

BY–PASS DESIGN

A BY–PASS MANHOLE DIVERTS STORMWATER DURING HEAVY PEAK STORM PERIODS. THIS ALLOWS FOR OPTIMAL INTERCEPTOR SIZING.

MAINTENANCE

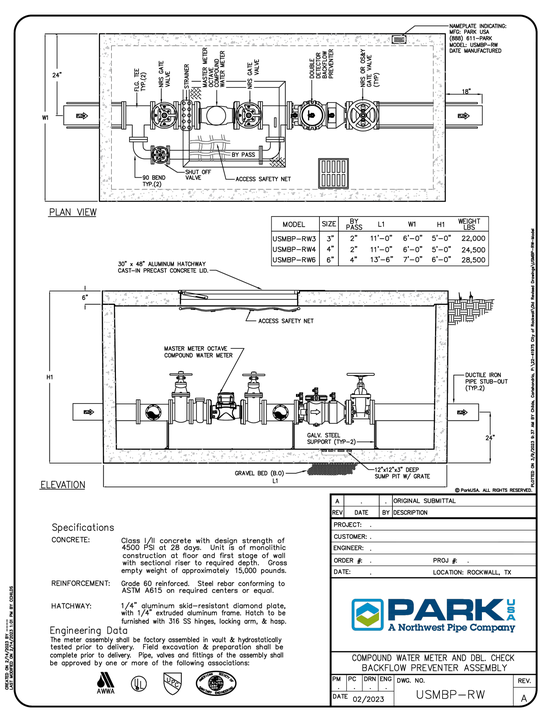
THE PARK STORM–TROOPER INTERCEPTOR REQUIRES MINIMAL MAINTENANCE. HYDROCARBONS AND SOLIDS ARE REMOVED FROM THE STORMWATER VIA BAFFLES AND COMPARTMENTS.

THESE POLLUTANTS ARE REMOVED FROM THE SEPARATOR WHEN SERVICED BY A LICENSED VACUUM TRUCK OPERATOR.

REV.	DATE	BY	DESCRIPTION
A			

PROJECT: ; CUSTOMER: ; ENGINEER: ; S/N # ; ORDER # ; PROJ # ; DATE: ; LOCATION: ;

MARK: – ; LINE: – ; STA: – ; SHEET: – ; DATE: –



MODEL	SIZE	BY PASS	L1	W1	H1	WEIGHT LBS
USMBP–RW3	3"	2"	11'–0"	6'–0"	5'–0"	22,000
USMBP–RW4	4"	2"	11'–0"	6'–0"	5'–0"	24,500
USMBP–RW6	6"	4"	13'–6"	7'–0"	6'–0"	28,500

Specifications

CONCRETE: Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Gross empty weight of approximately 15,000 pounds.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

HATCHWAY: 1/4" aluminum skid–resistant diamond plate, with 1/4" extruded aluminum frame. Hatch to be furnished with 316 SS hinges, locking arm, & hasp.

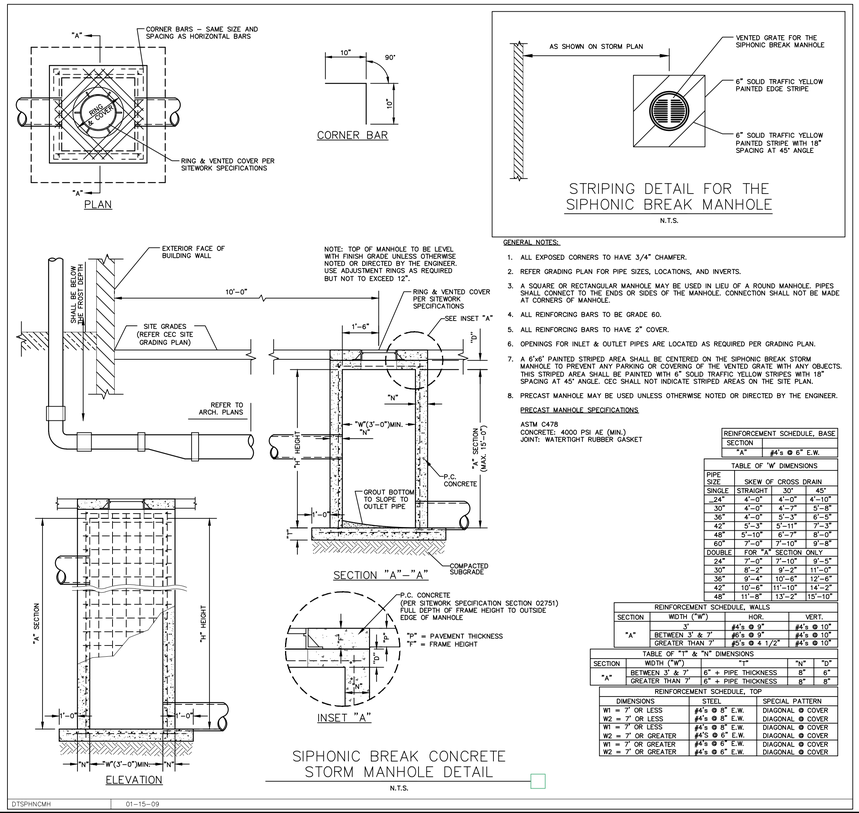
Engineering Data

The meter assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

AWWA UL NSF

RELEASED FOR CONSTRUCTION
ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

CITY _____ DATE _____



GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. REFER GRADING PLAN FOR PIPE SIZES, LOCATIONS, AND INVERTS.
3. A SQUARE OR RECTANGULAR MANHOLE MAY BE USED IN LIEU OF A ROUND MANHOLE. PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE MANHOLE. CONNECTION SHALL NOT BE MADE AT CORNERS OF MANHOLE.
4. ALL REINFORCING BARS TO BE GRADE 60.
5. ALL REINFORCING BARS TO HAVE 2" COVER.
6. OPENINGS FOR INLET & OUTLET PIPES ARE LOCATED AS REQUIRED PER GRADING PLAN.
7. A 6'x6' PAINTED STRIPED AREA SHALL BE CENTERED ON THE SIPHONIC BREAK STORM MANHOLE TO PREVENT ANY PARKING OR COVERING OF THE VENTED GRATE WITH ANY OBJECTS. THIS STRIPED AREA SHALL BE PAINTED WITH 6" SOLID TRAFFIC YELLOW STRIPES WITH 18" SPACING AT 45° ANGLE. CEC SHALL NOT INDICATE STRIPED AREAS ON THE SITE PLAN.
8. PRECAST MANHOLE MAY BE USED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.

PRECAST MANHOLE SPECIFICATIONS

ASTM C478
CONCRETE: 4000 PSI AE (MIN.)
JOINT: WATERTIGHT RUBBER GASKET

REINFORCEMENT SCHEDULE, BASE	
SECTION	
"A"	#4's @ 6" E.W.

TABLE OF "W" DIMENSIONS			
PIPE SIZE	SKEW OF CROSS DRAIN		
SINGLE	STRAIGHT	30°	45°
24"	4'–0"	4'–0"	4'–10"
30"	4'–0"	4'–7"	5'–8"
36"	4'–0"	5'–3"	6'–5"
42"	5'–3"	5'–11"	7'–3"
48"	5'–10"	6'–7"	8'–0"
60"	7'–0"	7'–10"	9'–8"
DOUBLE	FOR "A" SECTION ONLY		
24"	7'–0"	7'–10"	9'–5"
30"	8'–2"	9'–2"	11'–0"
36"	9'–4"	10'–6"	12'–6"
42"	10'–6"	11'–10"	14'–2"
48"	11'–8"	13'–2"	15'–10"

REINFORCEMENT SCHEDULE, WALLS			
SECTION	WIDTH ("W")	HOR.	VERT.
"A"	3'	#4's @ 9"	#4's @ 10"
	BETWEEN 3' & 7'	#5's @ 9"	#4's @ 10"
	GREATER THAN 7'	#5's @ 4 1/2"	#4's @ 10"

TABLE OF "T" & "N" DIMENSIONS				
SECTION	WIDTH ("W")	"T"	"N"	"D"
"A"	BETWEEN 3' & 7'	6" + PIPE THICKNESS	8"	6"
	GREATER THAN 7'	6" + PIPE THICKNESS	8"	8"

REINFORCEMENT SCHEDULE, TOP		
DIMENSIONS	STEEL	SPECIAL PATTERN
W1 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W2 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W1 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W2 = 7' OR GREATER	#4'S @ 6" E.W.	DIAGONAL @ COVER
W1 = 7' OR GREATER	#4's @ 6" E.W.	DIAGONAL @ COVER
W2 = 7' OR GREATER	#4's @ 6" E.W.	DIAGONAL @ COVER

No.	DATE	BY	REVISION	APPROV.
5.				
4.				
3.				
2.	06/06/25	WRW.	RFI 19	
1.	04/14/25	WRW.	RFI 4	

Winkelmann & Associates, Inc.
CONSULTING CIVIL ENGINEERS ■ SURVEYORS
4750 HILLCREST PLAZA DRIVE, SUITE 215
DALLAS, TEXAS 75230
Texas Engineer Registration No. F-10086
Texas Surveyor Registration No. 10088600

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STATE OF TEXAS
WILLIAM R. WINKELMANN
120378
LICENSED PROFESSIONAL ENGINEER
02-25-2025
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PRIVATE CIVIL DETAILS (3)

I–30 FRONTAGE RD & FM 3549
ROCKWALL, TX

IKEA @ ROCKWALL HEIGHTS

C-12.02