

GENERAL INFORMATION
THE PARKUSA FOX FIRST FLUSH DIVERSION SYSTEM IS HYDRAULICALLY ACTUATED FROM THE WASH POINT IN THE WASH AREA, OPENING AUTOMATICALLY AND DIVERTING ALL DIRTY WASH WATER TO THE PUBLIC WASTEWATER SEWER.

HOW DOES IT WORK?
AT THE COMMENCEMENT OF RAIN, THE FF600 AUTOMATICALLY DIVERTS THE CONTAMINATED "FIRST FLUSH OF RAIN" TO THE PUBLIC WASTEWATER (SANITARY) SEWER. AFTER DIVERTING THE FIRST FLUSH VOLUME OF RAIN TO PUBLIC SEWER TREATMENT SYSTEM, THE FF600 AUTOMATICALLY LOCKS THE DIVERSION VALVE CLOSED SENDING ALL SUBSEQUENT RAINWATER TO THE STORMWATER SEWER.

OPERATION INFORMATION
THE PARKUSA FOX FF600 IS RECOMMENDED TO ENSURE THAT A WASH PAD AREA WILL BE LEFT FREE OF CONTAMINANTS AT THE END OF A WASHDOWN OPERATION. RUNOFF IS DRAINED TO THE FOX FF600 CHAMBER VIA THE GRATED INLET AND SILT BASKET. DURING A WASH OPERATION, ALL RUNOFF IS DIVERTED TO THE SANITARY SEWER.

DURING A RAIN EVENT, IF NO WASHDOWN TAKING PLACE, THE LEVEL IN THE CHAMBER WILL RISE AS THE DIVERSION VALVE IS CLOSED. AT A POINT JUST BELOW THE STORMWATER OUTLET, A FLOAT WILL ACTIVATE AND OPEN THE DIVERSION VALVE AND DIVERT THE PIT CONTENTS TO THE SANITARY SEWER. THIS PROCESS WILL CONTINUE UNTIL THE REQUIRED 'FIRST FLUSH' VOLUME HAS BEEN DIVERTED. AFTER THE FIRST FLUSH HAS BEEN DIVERTED, THE REMAINING RUNOFF WILL BE DISCHARGED THROUGH THE STORMWATER OUTLET PIPE.

THE SYSTEM ENSURES THAT CONTAMINATED WATER ASSOCIATED WITH FIRST FLUSH IS DIVERTED TO THE SANITARY SEWER WHILE RAINWATER IS DRAINED TO THE STORM SEWER.

THE WORKING VOLUME IS THE 'FIRST FLUSH CAPTURE VOLUME'.
FFCV = AREA OF WASH SLAB (SQFT) X FIRST FLUSH DEPTH (IN) X .623 (GAL/IN-SQFT) = GAL

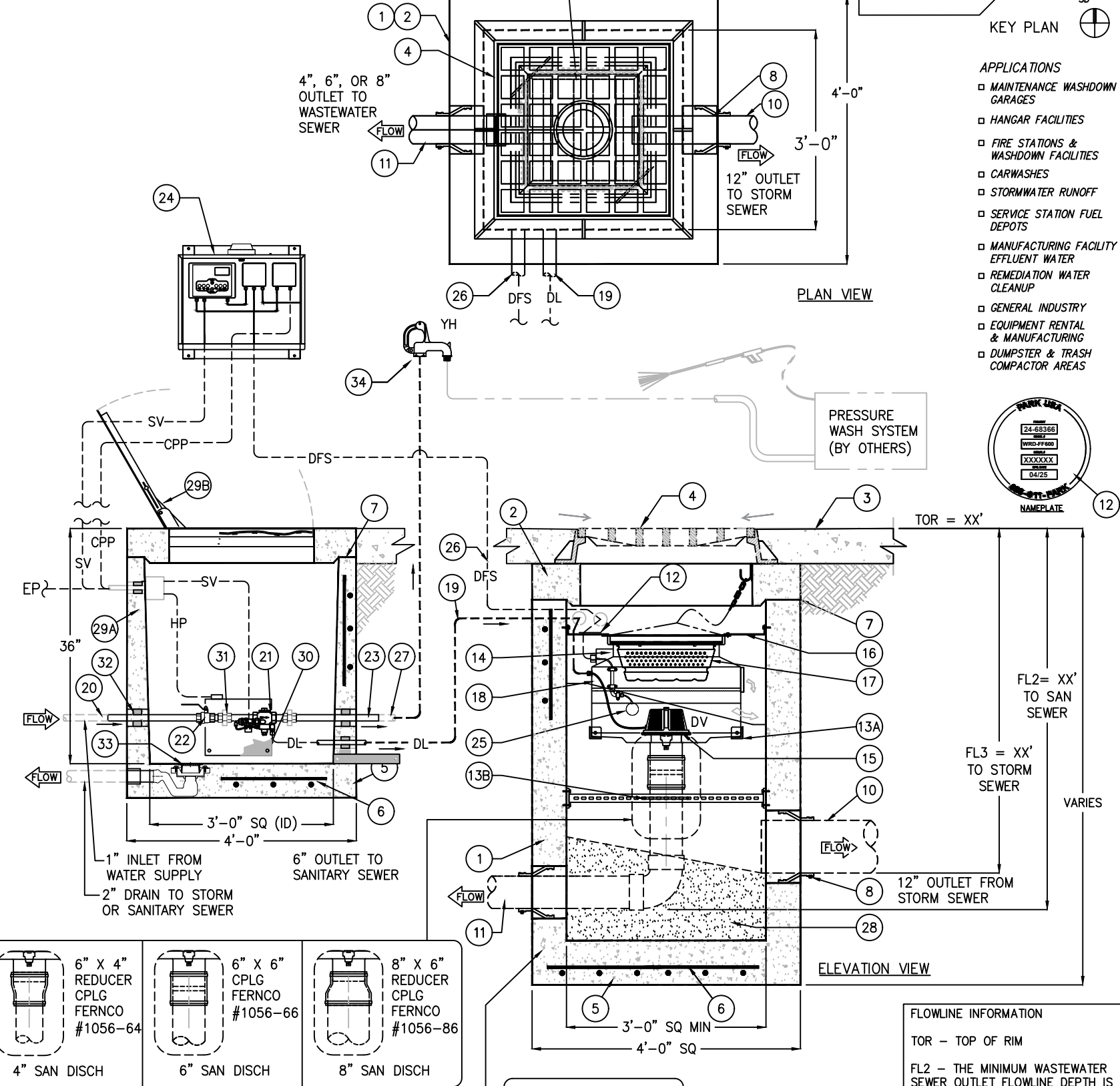
FOR EXAMPLE:
A WASH AREA OF 8,735 SQFT USING 1/2 (IN) FIRST FLUSH WOULD YIELD;

FFCV = 8,735 SQFT X .50 (IN) X .623 (GAL/IN-SQFT) = 2,721 (GAL) OR 364 (CUFT)

THIS IS THE VOLUME OF WATER THAT IS NEEDED TO DISCHARGE TO THE WASTEWATER SEWER TO ENSURE THAT NO POLLUTANTS ARE DISCHARGED TO THE ENVIRONMENT.

CONDUIT/WIRE LEGEND				
MARK	DESCRIPTION	ELECT	WIRE SIZE	CONDUIT SIZE
CPP	DIVERTER PANEL POWER	120 VAC-GFIC	(3) 12AWG	3/4"
FS1	FLOW SWITCH (OPTIONAL)	120 VAC	(2) 18AWG	1/2"
DFS	DIVERTER FLOAT SWITCH	120 VDC	(4) 18AWG	3/4"
DL	DIVERTER DRIVE LINE	-	-	1/2" PVC
EP	ENCLOSURE POWER	120 VDC/20A	(3) 12AWG	1"
HP	HEATER POWER	120 VDC/3.3A	(4) 10AWG	1/2"
SV	SOLENOID VALVE POWER	24 VDC	(2) 18AWG	1/2"

ALL CONDUIT, WIRING, & INSTALLATION BY OTHERS



- APPLICATIONS
- MAINTENANCE WASHDOWN & GARAGES
 - HANGAR FACILITIES
 - FIRE STATIONS & WASHDOWN FACILITIES
 - CARWASHES
 - STORMWATER RUNOFF
 - SERVICE STATION FUEL DEPOTS
 - MANUFACTURING FACILITY EFFLUENT WATER
 - REMEDIATION WATER CLEANUP
 - GENERAL INDUSTRY
 - EQUIPMENT RENTAL & MANUFACTURING
 - DUMPSTER & TRASH COMPACTOR AREAS

KEYED NOTES		
MARK	QTY	DESCRIPTION
1	1	INLET BASIN, 36"X36"X 72" DEEP ID MIN SIZE, PRECAST CONCRETE
2	1	BASIN TOP SECTION
3	-	CONCRETE APRON (BY OTHERS)
4	1	FRAME & GRATE 36"X36" CAST IRON, TRAFFIC DUTY
5	1	MONOLITHIC BOTTOM
6	-	STEEL REINFORCEMENT
7	-	JOINTS MADE WATER-TIGHT W/RAM-NEK SEALANT
8	2	RESILIENT RUBBER PIPE CONNECTIONS (BO)
9	1	NOT USED
10	1	12" DISCHARGE TO STORM SEWER (RE: CIVIL PLANS)
11	1	4", 6", OR 8" (PER PLANS) DISCHARGE TO SANITARY SEWER (RE: CIVIL PLANS)
12	1	NAMEPLATE INDICATING: MFG: ParkUSA 888-611-PARK www.ParkUSA.com MODEL: DSB-C-3636-WRK-FF-06-DVHT DATE MANUFACTURED
13A	1	HDG STEEL DIVERSION PIT SUPPORT BRACKET
13B	1	HDG STEEL PIPE SUPPORT BRACKET
14	1	DIVERSION VALVE ASSEMBLY, UPC LISTED
15	1	DIVERSION VALVE (LEAD-FREE RASS) (DV)
16	1	PLATFORM, SS304 STAINLESS STEEL
17	1	SILT SCREEN (HDPE) w/ RETRIEVAL CHAIN
18	1	DIVERSION PIT, HDPE
19	1	1/2" DRIVE LINE (DL) (BY OTHERS)
20	1	COLD WATER SUPPLY (RE: PLUMBING PLANS)
21	1	1" DEMAND VALVE (LEAD-FREE BRASS)
22	1	1" SHUT OFF VALVE (LEAD-FREE BRASS)
23	1	1" COPPER PIPING (PREPIPED)
24	1	CONTROL PANEL 24"X22" W/PLC & DEMAND VALVE MOUNTED ON WALL OR RACK
25	1	DIVERTER FLOAT SWITCH (DFS)
26	1	DIVERTER FLOAT SWITCH CABLE
27	1	WATER SUPPLY TO YARD HYDRANT (RE: PLUMBING PLANS)
28	1	FIELD GROUTED INVERT (BY OTHERS)
29A	1	VALVE ASSEMBLY, PRECAST CONCRETE 36"SQ X 36" DEEP (ID)
29B	1	ALUMINUM WATERTIGHT HATCHWAY, 300 PSF (30"SQ X 36"D ID)
30	1	PLATEN ELECTRIC HEATER MOUNTED ON ALUMINUM PLATE, 360 W-120V W/ THERMOSTAT, ON WALL @ 4" ABOVE FLOOR
31	2	1" UNION (HDG)
32	3	PIPE PENETRATION W/ LINKSEAL GASKET
33	1	2" FLOOR DRAIN W/ INTEGRAL P-TRAP (CI)
34	1	YARD HYDRANT (YH) (RE: PLUMBING PLANS)

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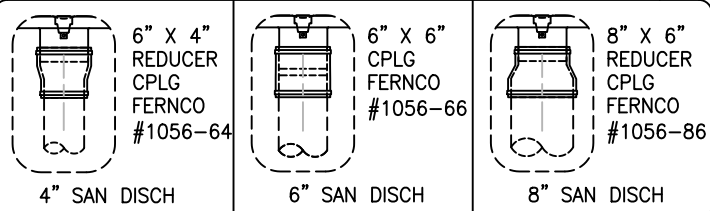
SPECIFICATIONS

CONCRETE
CLASS 1/1 CONCRETE WITH A DESIGN COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. THE UNIT SHALL BE OF MONOLITHIC CONSTRUCTION AT THE FLOOR AND FIRST STAGE OF THE WALL, WITH A SECTIONAL RISER TO THE REQUIRED DEPTH.

REINFORCEMENT
REINFORCED WITH GRADE 60 STEEL REBAR CONFORMING TO ASTM A615 OR APPROVED EQUIVALENT, PLACED AT REQUIRED CENTERS.

CASTINGS
MANHOLE FRAMES, COVERS, AND GRATES SHALL BE MANUFACTURED FROM DUCTILE IRON CONFORMING TO ASTM A536, AASHTO M306, AND AASHTO M105 STANDARDS. GRATING SHALL BE NOMINAL 36" X 36", RATED FOR H-20 TRAFFIC LOADING.

ENGINEERING
THE UNIT SHALL BE STRUCTURALLY AND HYDRAULICALLY ENGINEERED IN ACCORDANCE WITH UPC AND ACI BUILDING CODES. THE MANUFACTURER SHALL ENSURE THE VAULT ASSEMBLY DESIGN MITIGATES BUOYANCY EFFECTS. FIELD EXCAVATION AND SITE PREPARATION MUST BE COMPLETED PRIOR TO DELIVERY OF THE UNIT. USE DIMENSIONAL DATA AS PROVIDED.



DASHED PIPING & RESIELNT COUPLING ARE FURNISHED BY OTHERS

NOTE:
CATCHBASIN & GRATE TO BE PROVIDED BY OTHERS

FLOWLINE INFORMATION

- TOR - TOP OF RIM
- FL2 - THE MINIMUM WASTEWATER SEWER OUTLET FLOWLINE DEPTH IS 84" (TOR-FL), (CITY REQUIREMENT)
- FL3 - THE MINIMUM STORM OUTLET FLOWLINE DEPTH IS 48" (TOR-FL), (CITY REQUIREMENT)



WASHRACK DIVERSION VALVE ASSEMBLY
MODEL DSB-C-3636-WRK-FF3-06-DVHT

PM	PC	DRN	ENG	DWG. NO.	REV.
BM	ER	ER	CE	DSB-C-3636-WRK-FF3-06-DVHT	A
DATE	08/2025				

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