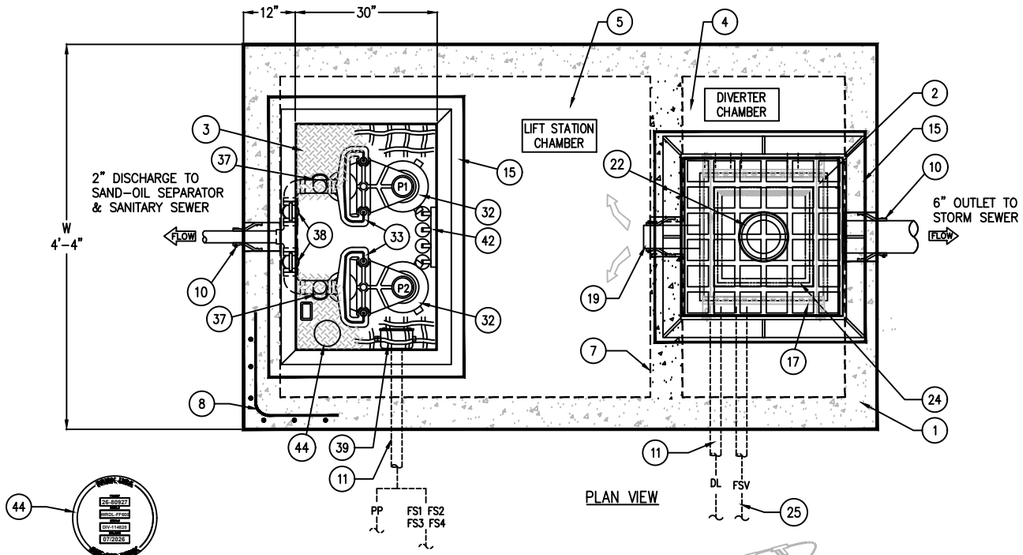

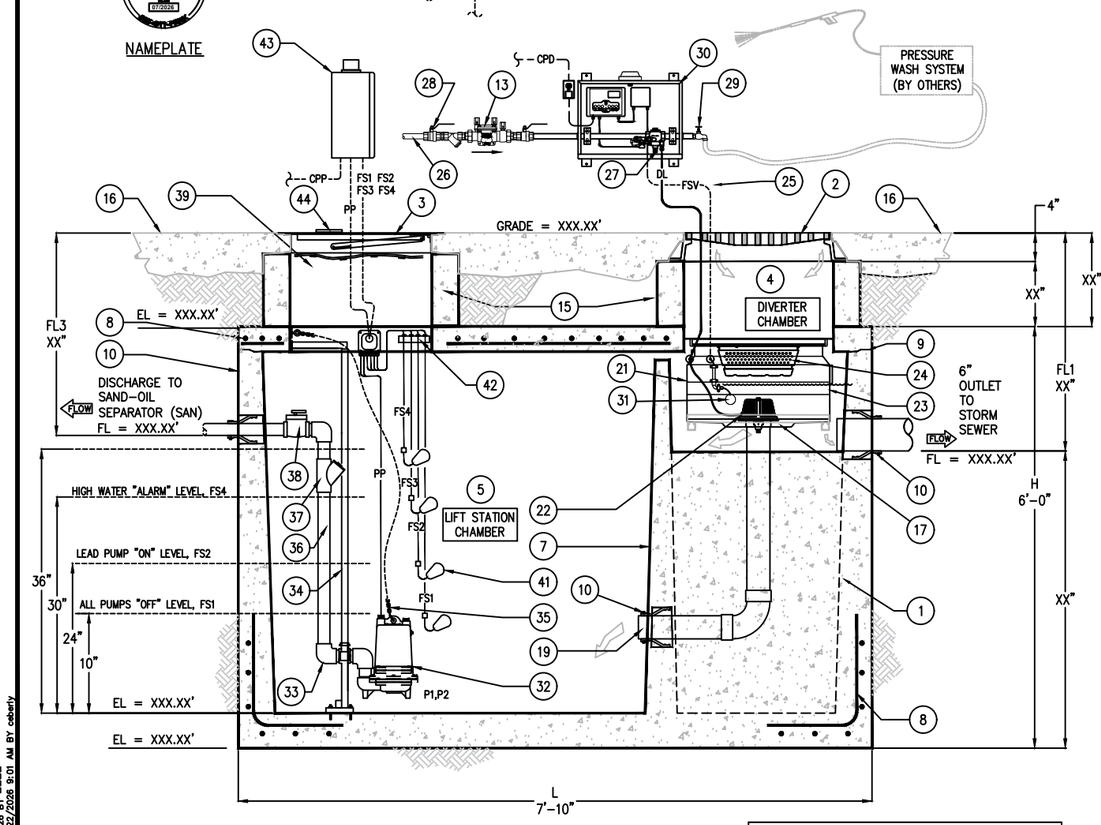

ELEVATION

PUMP SCHEDULE								
PUMP No.	TYPE	GPM	TDH	RPM	ELECTRICAL HP	V	PH	Hz
P1	NON-CLOG	XX	XX'	XXXX	1/2	XXX	X	60
P2	NON-CLOG	XX	XX'	XXXX	1/2	XXX	X	60

KEYED NOTES		
MARK	QTY	DESCRIPTION
1	1	PRECAST CONCRETE DIVERTER/PUMP BASIN
2	1	24" X 24" TRAFFIC DUTY FRAME & GRATE, HDG
3	1	30" X 36" SINGLE LEAF HDG STEEL HATCH, TRAFFIC DUTY, BOLT-DOWN, & SAFETY NET
4	1	DIVERTER VALVE COMPARTMENT
5	–	PUMP STATION CHAMBER
6	–	NOT USED
7	1	MONOLITHIC BAFFLE
8	–	STEEL REINFORCEMENT
9	–	JOINTS MADE WATER-TIGHT W/RAM-NEK SEALANT
10	4	RESILIENT RUBBER PIPE CONNECTIONS
11	1	CONDUIT (PVC)
12	1	NOT USED
13	1	1" RPZ BACKFLOW PREVENTER (BY OTHERS)
14	1	NOT USED
15	2	PRECAST CONCRETE EXTENSION (VERIFY DEPTH)
16	–	CONCRETE APRON (BY OTHERS)
17	·	HDG STEEL SUPPORT STRUCTURE
18	1	INLET FROM ADJACENT WASH AREA (OPTIONAL)
19	1	6" INLET INTO PUMP COMPARTMENT (PVC)
20	1	NOT USED
21	1	DIVERSION VALVE ASSEMBLY
22	1	FOX DIVERSION VALVE (BRASS)
23	1	DIVERSION VALVE PIT (HDPE)
24	1	SILT SCREEN (HDPE)
25	1	1/2 " DRIVELINE
26	1	COLDWATER SUPPLY (WS)
27	1	1" DEMAND VALVE (BRASS)
28	1	1" SHUT OFF VALVE (BRASS)
29	1	1" HOSE BIBB (BRASS)
30	1	DIVERSION VALVE CONTROL PANEL 24"X22" W/PLC & DEMAND VALVE
31	1	DIVERTER FLOAT SWITCH

KEYED NOTES		
MARK	QTY	DESCRIPTION
32	2	SUBMERSIBLE SUMP (CI)
33	2	PUMP DISCHARGE ELBOW (CI) PUMP REMOVABLE SYSTEM
34	2	PUMP GUIDE RAIL (SS)
35	2	PUMP RETRIEVED CHAIN (SS)
36	2	2" DISCHARGE PIPING (PVC)
37	2	2" BALL CHECK VALVE (PVC)
38	2	2" BALL VALVE (PVC)
39	1	THERMOPLASTIC JUNCTION BOX
40	1	NOT USED
41	4	PUMP FLOAT SWITCH
42	1	CABLE BRACKET (SS)
43	1	PUMP CONTROL PANEL, FRP NEMA 4X
44	1	NAMEPLATE INDICATING: MFG: ParkUSA 888-611-PARK www.ParkUSA.com MODEL: DSE-C-3886-WRK-FF3-06 DATE MANUFACTURED

PUMP STATION OPERATION LEVELS		
RISING LEVEL CYCLE		
WATER LEVEL ELEVATION	ACTION	PUMPS IN OPERATION
TBD	LEAD PUMP TURNS "ON", FS2	LEAD PUMP "ON"
TBD	LAG PUMP TURNS "ON", FS3	LEAD & LAG PUMPS "ON"
TBD	HIGH WATER ALARM LEVEL, FS4	LEAD & LAG PUMPS "ON" HIGH LEVEL ALARM "ON"
FALLING LEVEL CYCLE		
WATER LEVEL ELEVATION	ACTION	PUMPS IN OPERATION
TBD	HIGH WATER ALARM "OFF", FS4	HIGH LEVEL ALARM "OFF"
TBD	ALL PUMPS "OFF" LEVEL, FS1	ALL PUMPS "OFF", LAG PUMP SWITCHES TO LEAD PUMP

CONDUIT/WIRE/PIPE LEGEND				
MARK	DESCRIPTION	ELECT	*WIRE SIZE	*CONDUIT SIZE
CPP	PUMP CONTROL POWER	120 VAC	(3) 12GA	1"
CPD	DIVERTER CONTROL POWER	120 VAC	(3) 12GA	1"
PP	PUMP POWER	120 VAC	(3) 12GA	1"
FS	FLOAT SWITCHES (4 ea)	120 VAC	(2) 12GA	1"
FS1, FS2, FS3, FS4	PUMP FLOAT SWITCHES	120 VAC	(2) 14GA	SO CORD
FSV	DIVERTER FLOAT SWITCH	120 VAC	(3) 14GA	3/4"
DL	DIVERTER DRIVE LINE	1/2" PVC OR COPPER		

* LISTED WIRE AND CONDUIT SIZES ARE GUIDELINES ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND SIZE ALL WIRING AND CONDUIT IN ACCORDANCE WITH THE NEC.

SPECIFICATIONS

DIVERTER OPERATION:

THE DIVERTER VALVE AND CONTROLS ARE DESIGNED TO ENSURE PROPER TREATMENT OF CONTAMINANTS LEFT ON THE WASH PAD AT THE END OF A WASHDOWN OPERATION. RUNOFF IS PRESENTED TO THE DIVERTER CHAMBER VIA THE GRATED INLET AND SILT BASKET.

DURING A WASH OPERATION, ALL RUNOFF IS DIVERTED TO THE PUMP STATION COMPARTMENT FOR TREATMENT AND EVAPORATION.

DURING A RAIN EVENT, IF NO WASHDOWN IS 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, OPENING THE DIVERSION VALVE AND DIVERTING THE PIT CONTENTS TO THE TREATMENT TANK. THIS PROCEDURE WILL CONTINUE UNTIL THE REQUIRED FIRST FLUSH VOLUME HAS BEEN DIVERTED.

AFTER THE FIRST FLUSH HAS BEEN TAKEN, DISCHARGE OF THE RUNOFF WILL BE THROUGH THE STORMWATER OUTLET PIPE. THIS ARRANGEMENT ELIMINATES THE LARGER VOLUMES OF RUNOFF THAT ARE NORMALLY COLLECTED WITH A CONVENTIONAL FIRST FLUSH CAPTURE SYSTEM.

DIVERTER / PUMP BASIN:

CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE, WITH SECTIONAL RISER TO REQUIRED DEPTH.

THE BASIN IS DESIGNED FOR H-20-44 LOADING WITH GRADE 60 REINFORCED STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS.

HATCHWAY SHALL BE HOT-DIP GALVANIZED STEEL DIAMOND PLATE, BOLT-DOWN TYPE, H-20 TRAFFIC RATED, AND PROVIDED WITH AN INTERNAL SAFETY NET.

PUMPS & CONTROLS:

PUMPS SHALL BE CENTRIFUGAL TYPE WITH INTEGRAL NON-CLOG UNIT AND SUBMERSIBLE TYPE MOTOR. PUMPS SHALL HAVE A CAPACITY AS LISTED.

PUMP CONTROLS SHALL BE MOUNTED INSIDE A UL LISTED NEMA 4X ENCLOSURE AND INCLUDE CIRCUIT BREAKERS, ALARM CIRCUIT FUSE, IEC-RATED MOTOR STARTER, PUMP HOA (HAND-OFF-AUTO), AND ALTERNATOR RELAY. PANEL SHALL INCLUDE A VISUAL ALARM BEACON AND IS DESIGNED FOR REMOTE MOUNTING.

REV	DATE	BY	DESCRIPTION
A	3/17/26	FG	ORIGINAL SUBMITTAL

PROJECT: .

CUSTOMER: .

ENGINEER: . S/N #: .

ORDER #: . PROJ #: .

DATE: . LOCATION: .

NWPX PARK

DIVERSION VALVE / PUMP SYSTEM
MODEL DSE-C-3886-WRK-FF3-06

PM	PC	DRN	ENG	DWG. NO.	REV.
BM	.	ER	CE	DSE-C-3886-WRK-FF3-06	A
DATE 03/17/26					