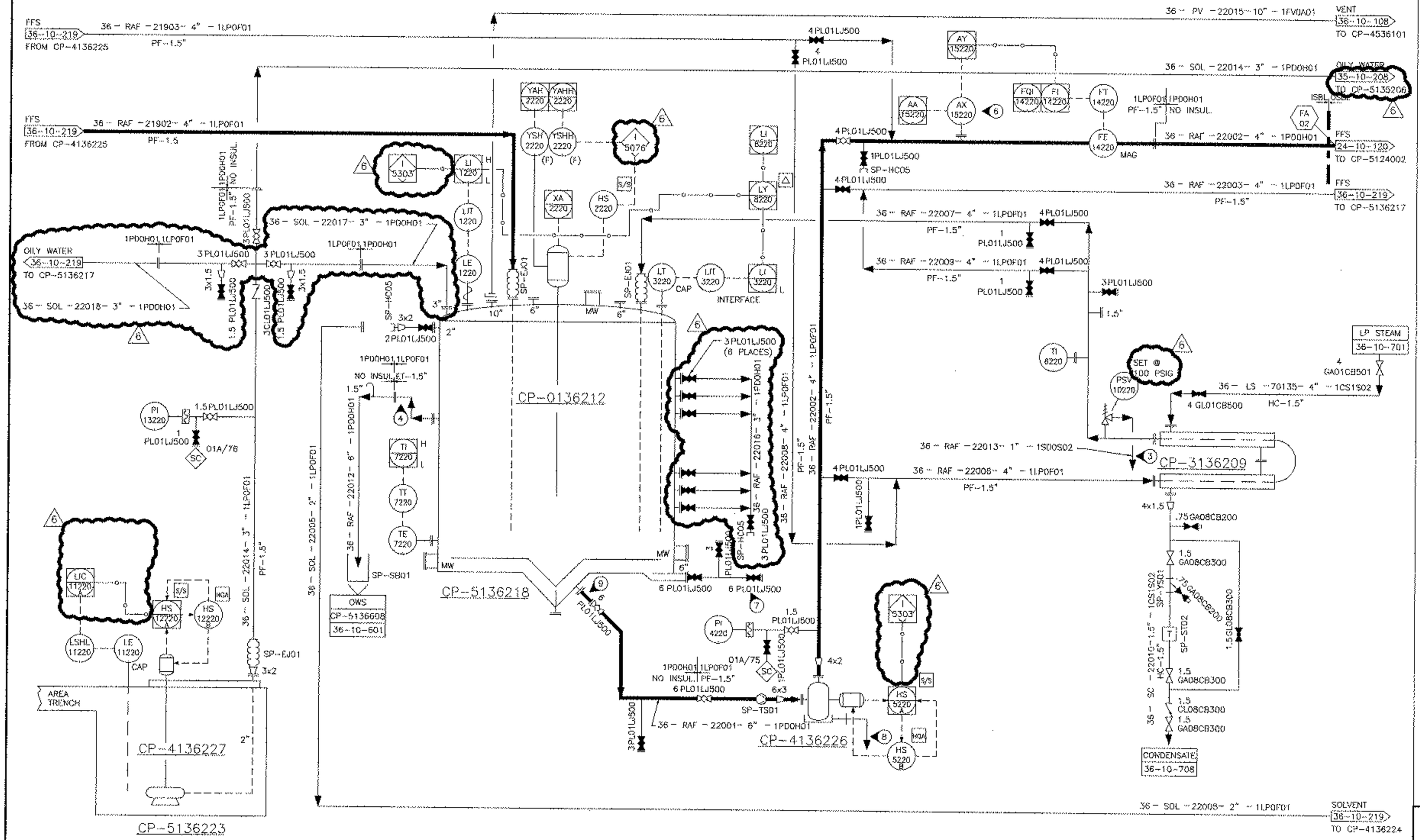
36-10-220

CP-5136223
FFS SURGE AREA SUMP
MATL: COATED CONCRETE

CP-0136212
SECONDARY FFS SURGE TANK RAKE
POWER REQT: 2 HP
MATL: 904L SS

CP-5136218
SECONDARY FFS SURGE TANK
SIZE: 40'-0" ID x 32'-0" S/S
CAPACITY: 282,000 GAL
DES PRESS @ TEMP: -4/24"WC @ 180°F
MATL: FRP
TRIM: 904L SS
INSULATION: NONE

CP-3136209
FFS SURGE TANK HEATER
DUTY: 1,146,000 BTU/H
SURFACE AREA: 61.7 SQ FT
SHELL DES PRESS @ TEMP: 100 PSIG/FV @ 350°F
TUBE DES PRESS @ TEMP: 100 PSIG @ 350°F
MATL (SHELL/TUBE): CS/904L SS
INSULATION (SHELL/TUBE): HC-1"/NONE



NOTES:

1. FOR GENERAL NOTES AND SYMBOLS, REFER TO DRAWING NOS. 35-10-098, 35-10-099.
2. LOCATE VALVES AS CLOSE TO TEES AS POSSIBLE.
3. ROUTE TO SAFE LOCATION AT GRADE.
4. SEAL LOOP TO EXTEND ABOVE SOLVENT OVERFLOW NOZZLE.
5. CP-5136218 LOCATED IN SECONDARY CONTAINMENT AREA.
6. AX-15220 TO BE LOCATED IN HORIZONTAL, FLOODED PIPE RUN. AX-15520 TO BE 15 PIPE DIAMETERS, MINIMUM, UPSTREAM FROM FE-14220.
7. VESSEL HAS FOUR DRAINS, ONE UNDER EACH MANWAY AND TWO OTHERS 90° OFFSET FROM THE MANWAYS.
8. 1" DRAIN FROM PUMP DRAIN PAN TO SLAB (SPEC. 1SD0S02).
9. 1'-0" LONG HDPE SPOOL

INTERLOCKS

- FOR INTERLOCKS, SEE INTLOCK TABLE DWG. 35-10-005

AS BUILT
05/18/03

L#22018

CP-4136227
FFS SURGE AREA SUMP PUMP
100 GPM @ 63' TDH
POWER REQT: 10 HP
MATL: Cd4MCu

CP-4136226
SECONDARY FFS TRANSFER PUMP
CAPACITY: 250 GPM @ 133 FT TDH
POWER REQT: 15 HP
MATL: Cd4MCu
INSULATION: NONE

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
6	--	AS BUILT PER ESR 20017 AND GENERAL CLEAN-UP	MAC		5/18/03			

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
5	--	AS BUILT PER SDS 2001 WALK-DOWN	JH	MAG	1/23/03			
4	--	REISSUE FOR DESIGN	JWH		8/28/00			
3	--	ISSUE FOR HAZOPS	KP	CGH	5/8/00	JME	WRY	ALG/TCS
2	--	REISSUE FOR DESIGN	BM	CGH	2/7/00	JME	ALG	
1	--	FOR REVIEW	CGH	RIP	10/25/99			
0	--	FOR DESIGN	CGH	RIP	7/29/99			

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PROJ. MGR. J. KORETCHKO
CHECKED
DISP. LEAD
DESIGNATOR R. PEDROSO
DATE 5/12/99
CAD FILE 3610220_6

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FMC CORPORATION
FES - Princeton, NJ

FMC PURIFIED PHOSPHORIC ACID PLANT AT AGRIUM-CONDA PHOSPHATES SECONDARY FFS SURGE PIPING & INSTRUMENTATION DIAGRAM

SCALE	ORDER NO.	DRAWING NO.	REV.
NONE	28-T424-10	36-10-220	6