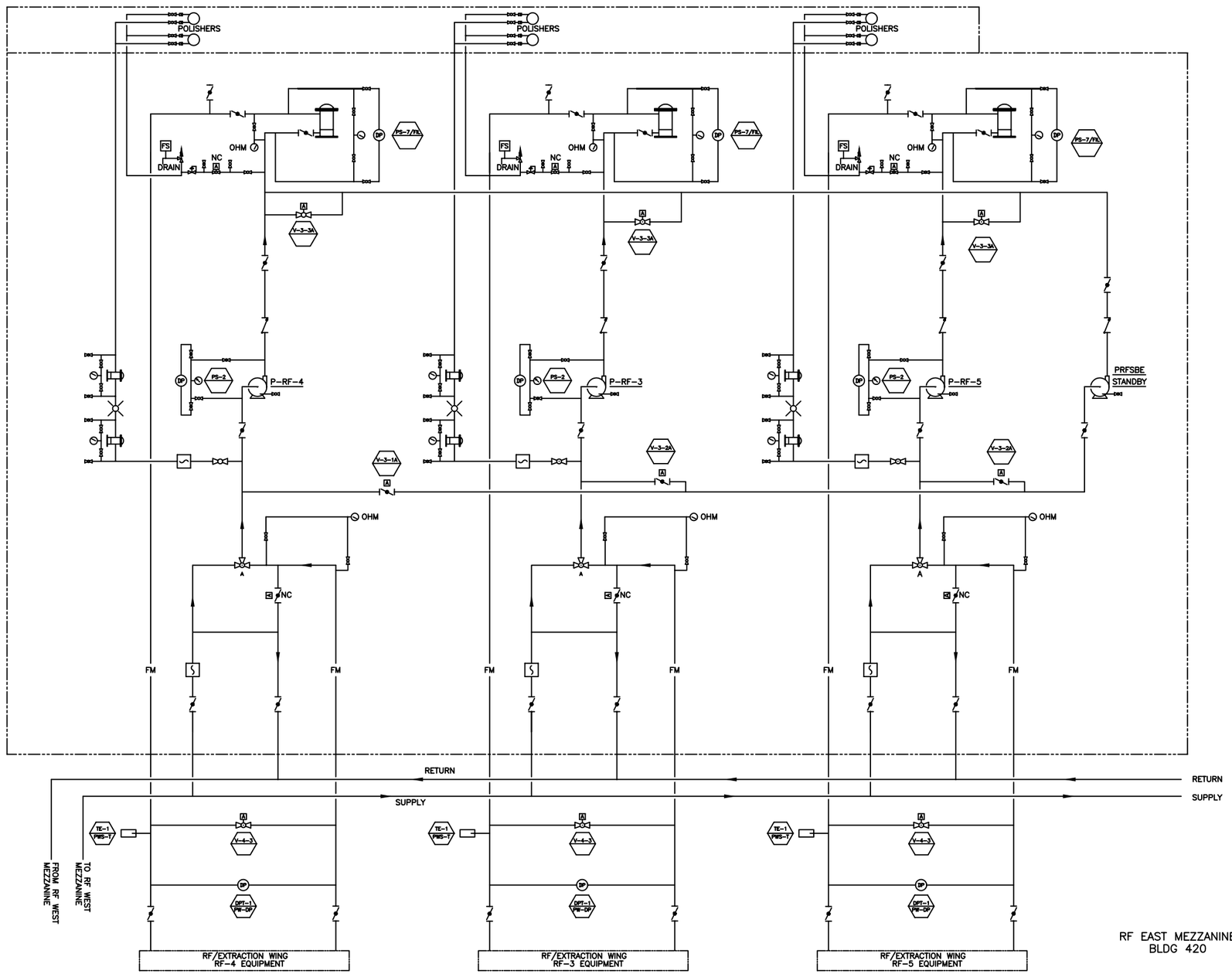
REVISIONS					
ZONE	REV	DESCRIPTION	BY	APPROVED	DATE
	01	PUMP NAMES CHANGED PER DCN 990710-05	HPC		



JOHNSON CONTROLS TAG

XX-X
XXX-X

NC – NORMALLY CLOSED
NO – NORMALLY OPEN

PUMP
FILTER
UV LIGHT
BUTTERFLY VALVE
BALL VALVE
CHECK VALVE
PRESSURE RELIEF VALVE
PRESS. REDUCG REG.
BALL CONTROL VALVE
3-WAY CONTROL VALVE
BUTTERFLY CONTROL VALVE
OHM RESISTIVITY METER
SENSOR – DIFF. PRESS.
PRESSURE GAGE
FLOW SWITCH
FM FLOW METER
ULTRASONIC FLOWMETER
HOSE CONNECTION

ITEM	DRAWING / PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY

PARTS LIST / BILL of MATERIALS

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES TOLERANCES: DECIMALS ANGULAR .X ± ± .XX ± ± .XXX ± ± SURFACE ROUGHNESS: ✓ REMOVE ALL BURRS AND SHARP EDGES. BREAK ALL SHARP EDGES .01 R MAXIMUM. DIMENSIONS & TOLERANCES AS DEFINED BY ASME Y14.5

DRAWN BY H.P. CZERWINSKI DATE 03/04/09
CHECKED BY E.SWETIN DATE 03/13/96
ENGINEER BY DATE
RESPONSIBLE ENGINEER E.SWETIN DATE 03/13/96
GROUP LEADER S.SHARMA DATE 03/13/96
APPROVED BY DATE
APPROVED BY DATE
APPROVED BY DATE

ELECTRONIC FILE NUMBER: A2408701

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ARGONNE NATIONAL LABORATORY
ADVANCED PHOTON SOURCE

TITLE:
P & ID FOR D.I. WATER
BUILDING 420 EAST MEZZANINE
PUMPS PRFSBE, P-RF-5, P-RF-3 & P-RF-4

SIZE E | FSCM No. 0HRH5 | DRAWING NUMBER 31-103400 | REV. 01
SCALE: 1:1 | DO NOT SCALE DRAWING | SHEET: 1 of 1