

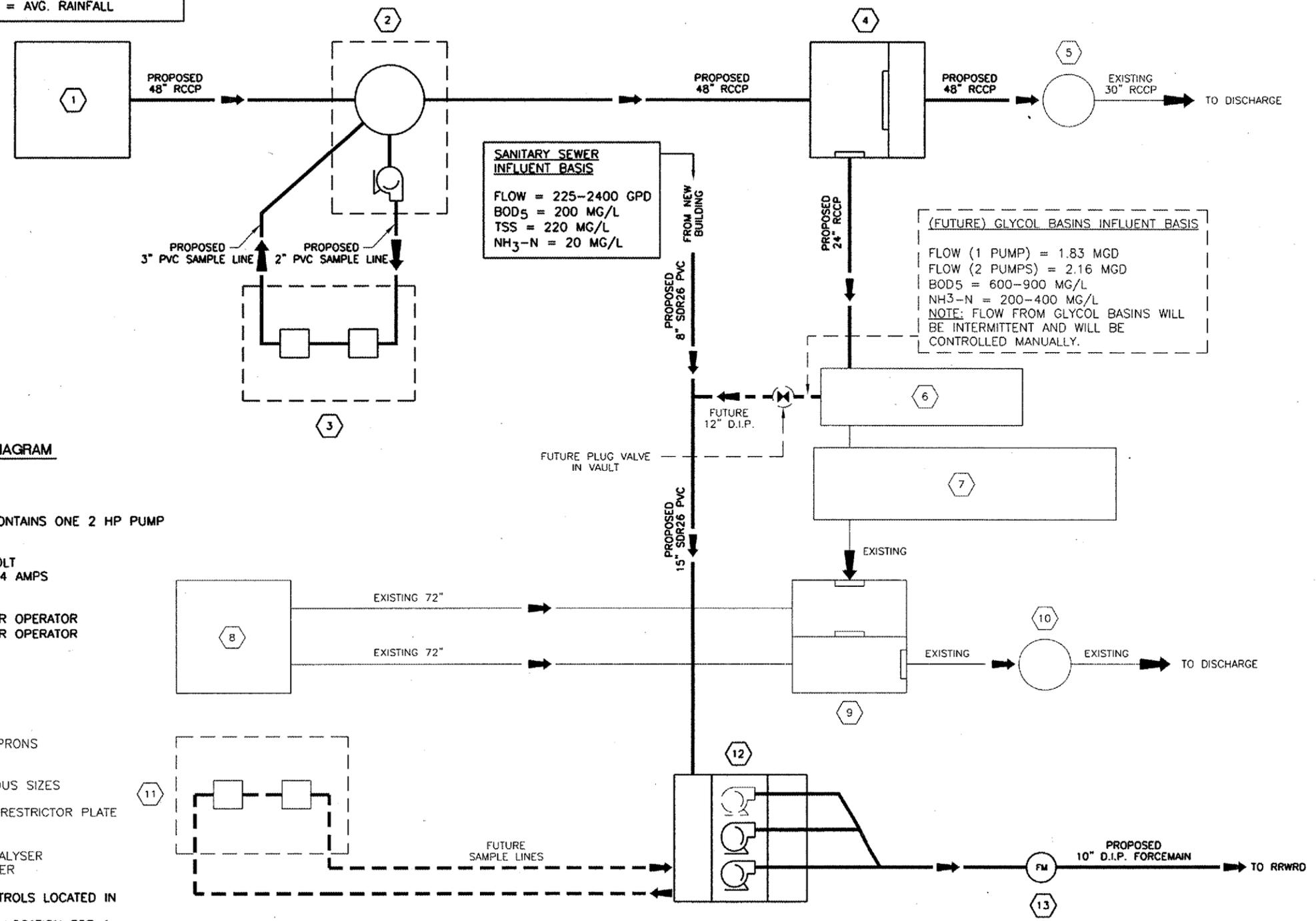
CARGO APRON INFLUENT/FLOW:
 DMF = 45.69 MGD
 DAF = AVG. RAINFALL

SANITARY SEWER INFLUENT BASIS
 FLOW = 225-2400 GPD
 BOD₅ = 200 MG/L
 TSS = 220 MG/L
 NH₃-N = 20 MG/L

(FUTURE) GLYCOL BASINS INFLUENT BASIS
 FLOW (1 PUMP) = 1.83 MGD
 FLOW (2 PUMPS) = 2.16 MGD
 BOD₅ = 600-900 MG/L
 NH₃-N = 200-400 MG/L
 NOTE: FLOW FROM GLYCOL BASINS WILL BE INTERMITTENT AND WILL BE CONTROLLED MANUALLY.

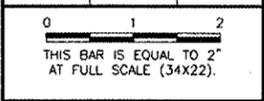
NOMENCLATURE FOR PROCESS DIAGRAM

- 1 NEW APRON
- 2 PROPOSED SAMPLING MANHOLE - CONTAINS ONE 2 HP PUMP
- 3 PROPOSED CONTROL BUILDING
 -ONE AMMONIA ANALYSER - 115 VOLT
 -ONE BOD ANALYSER - 230 VOLT, 4 AMPS
- 4 PROPOSED DIVERSION STRUCTURE
 -ONE 36" SQUARE GATE WITH MOTOR OPERATOR
 -ONE 48" SQUARE GATE WITH MOTOR OPERATOR
- 5 EXISTING DISCHARGE MANHOLE
- 6 EXISTING SMALL POND
- 7 EXISTING LARGE POND
- 8 EXISTING UPS AND COMMON AREA APRONS
- 9 EXISTING DIVERSION STRUCTURE
 -CONTAINS 4 SLIDE GATES OF VARIOUS SIZES
- 10 EXISTING DISCHARGE MANHOLE WITH RESTRICTOR PLATE
- 11 EXISTING CONTROL BUILDING
 -WILL CONTAIN FUTURE AMMONIA ANALYSER
 -WILL CONTAIN FUTURE BOD ANALYSER
- 12 PROPOSED PUMP STATION WITH CONTROLS LOCATED IN EXISTING CONTROL BUILDING
 -CONTAINS TWO 25 HP PUMPS AND LOCATION FOR A FUTURE 3RD PUMP
- 13 PROPOSED MAGNETIC FLOW METER WITH REMOTE READ IN CONTROL BUILDING



REVISIONS

NUMBER	BY	DATE



**CHICAGO ROCKFORD INTERNATIONAL AIRPORT
 ROCKFORD, ILLINOIS**
PROCESS FLOW DIAGRAM

© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613
 Chicago Rockford International Airport

DESIGN BY:	CAD / BDH
DRAWN BY:	JRO
CHECKED BY:	DKP
APPROVED BY:	
DATE:	02/29/08
JOB No:	07258-06
ILLINOIS PROJECT:	RFD-3787
A.I.P. PROJECT:	3-17-0088-XX
FINAL SUBMITTAL	
SHEET 17 OF 83 SHEETS	