

GENERAL NOTES:

1. ALL COMPONENT & EQUIPMENT NUMBER ARE PRECEDED BY "7B" TO REPRESENT THE BULK DRUG

SUBSTANCE (BDS) BUILDING. 3. LINE NUMBER NOT USED:

2. LAST LINE NUMBER: NÚMERO DE LINHA NÃO UTILIZADO:

9800247 to 255 4. LAST MANUAL VALVE NUMBER:

ÚLTIMO NÚMERO DE VÁLVULA MANUAL: 5. MANUAL VALVE NUMBER NOT USED: NÚMERO DE VÁLVULA MANUAL NÃO UTILIZADO:

9800135 to 140 9800179 to 201 9800203 to 204

6. THIS SYSTEM WAS SIZED ACCORDING TO DOCUMENT PRD-MEC-CLC-004 - CHILLED GLYCOL SYSTEM CALCULATION (PROCESS).

SHEET NOTES

1. PUMP (P-PCH-7B-3/ P-PCH-7B-4) CONTROLLED BY DIFFERENTIAL PRESSURE DROP TRANSMITTER (PDIT-980010), MANTAINING CONSTANT THE PRESSURE DROP OF 1.5 BAR. DESIGN FLOWRATE = 283 M3/HR MAXIMUM OPERATING FLOWRATE = 215 M3/HR MINIMUM OPERATIN FLOWRATE = 47.9 M3/HR BOMBA (P-PCH-7B-3 / P-PCH-7B-4) CONTROLADA PELO TRANSMISSOR DE PRESSÃO DIFERENCIAL (PDIT-980010), MANTENDO UMA PERDA DE CARGA CONSTANTE DE 1.5 BAR. VAZÃO DE PROJETO = 283 M3/HR VAZÃO MÁXIMA DE OPERAÇÃO = 215 M3/HR

VAZÃO MINIMA DE OPERAÇÃO = 47.9 M3/HR 2. BY PASS VALVE - BALANCING VALVE TO KEEP THE FLOWRATE OF 5.4 M3/HR VÁLVULA DE BY-PASS - VÁLVULA BALANCEADORA PARA MANTER A VAZÃO

BOMBA CENTRÍFUGA - UMA EM OPERAÇÃO E OUTRA RESERVA. 4. TIE-IN - FUTURE EXPANSION. TIE-IN - EXPANSÃO FUTURA. 5. BY PASS VALVE - BALANCING VALVE TO KEEP THE

FLOWRATE OF 6.8 M3/HR. VÁLVULA DE BY-PASS - VÁLVULA BALANCEADORA PARA MANTER A VAZÃO 6. THIS INSTRUMENT SHALL BE INSTALLED AT A DISTANCE OF 2/3 OF THE MAIN DISTRIBUTION PIPE

ESTE INSTRUMENTO DEVERÁ SER INSTALADO A UMA DISTÂNCIA DE 2/3 DA EXTENSÃO TOTAL DA TUBULAÇÃO PRINCIPAL DE DISTRIBUIÇÃO. . FOR PIPING, VALVES AND PUMPS SIZING, SEE THE DOCUMENT CHILLER WATER SYSTEM (PROCESS) CALCULATION REPORT- PRD-MEC-CLC-004.

PARA DIMENSIONAMENTO DA TUBULAÇÃO, VÁLVULAS E BOMBAS, VER DOCUMENTO MEMÓRIA DE CÁLCULO SISTEMA DE ÁGUA GELADA (PROCESSO) - PRD-MEC-CLC-004. 8. DRAIN TO WASTE. DRENO PARA EFLUENTE. PROVIDE AIR VENT AT THE HIGH POINT OF EACH DROP IN THE CHILLED WATER PIPING SYSTEM. ALL

END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS. PREVER ELIMINADOR DE AR EM PONTO ALTO NO SISTEMA DE ÁGUA GELADA. TUBULAÇÃO COM CAIMENTO PARA PONTOS BAIXOS. PREVER VÁLVULAS DE DRENO COM CONEXÃO PARA FLEXÍVEL NOS PONTOS BAIXOS DA 10. SYMBOLS REFERENCE - SEE DOCUMENT 07-M-0-5-01.

Project

Services

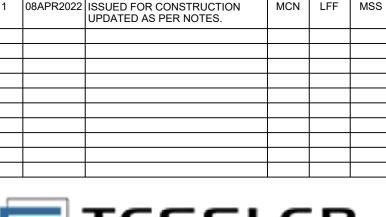
Engineering Design/Build

Compliance

Consulting

721 Arbor Way Suite 100 BLUE BELL, PA 19422 PHONE: (610) 828-4090 FAX: (610) 828-3656 www.ipsdb.com IPS Professional Engineers and Architects, LLC.

A 28AUG2020 90% BD ISSUE B 27NOV2020 DESIGN ISSUE 17MAY2021 90% DD ISSUE 18AUG2021 ISSUED FOR CONSTRUCTION 08APR2022 ISSUED FOR CONSTRUCTION UPDATED AS PER NOTES.





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REVISION C NOTES

FLOWRATES AND DIAMETERS HAVE BEEN UPDATED, AS WELL AS CALCULATIONS. THE EQUIPMENT AND DATA HAVE BEEN UPDATED ACCORDING TO IPS INFORMATION. VAZÕES E DIÂMETROS FORAM ATUALIZADOS, ASSIM COMO OS CÁLCULOS. OS EQUIPAMENTOS E DADOS FORAM ATUALIZADOS CONFORME INFORMAÇÕES

REVISION 0 NOTES

REMOVED FIT-980005. REMOVIDO FIT-980005

SHEET NOTES NUMBER 10 WAS ADD. NOTA 10 ADICIONADA.

REVISION 1 NOTES AS PER N+1 UPDATE

CONFORME ATUALIZAÇÃO N+1 INCLUDED SHEET NOTE NUMBER 11

INCLUÍDA NOTA NÚMERO 11

HOLD LIST

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OF INTEGRATED PROJECT SERVICES.



BURITI EPCMV

P&I DIAGRAM DRUG SUBSTANCE **CHILLED WATER**

DRAWING NUMBER

DISTRIBUTION SYSTEM (1/4) ENGINEER ARCHITECT DESIGNER IPS PROJECT # BJE ITD19439.01 DRAWN BY REVIEWED BY SCALE CADD FILE NAME

XREF FILE(S)

7B-M-0-5-45

7B-M-0-5-45_0_PID -

(PROCESS)

CHILLED GLYCOL

DISTRIBUTION SYSTEM₁