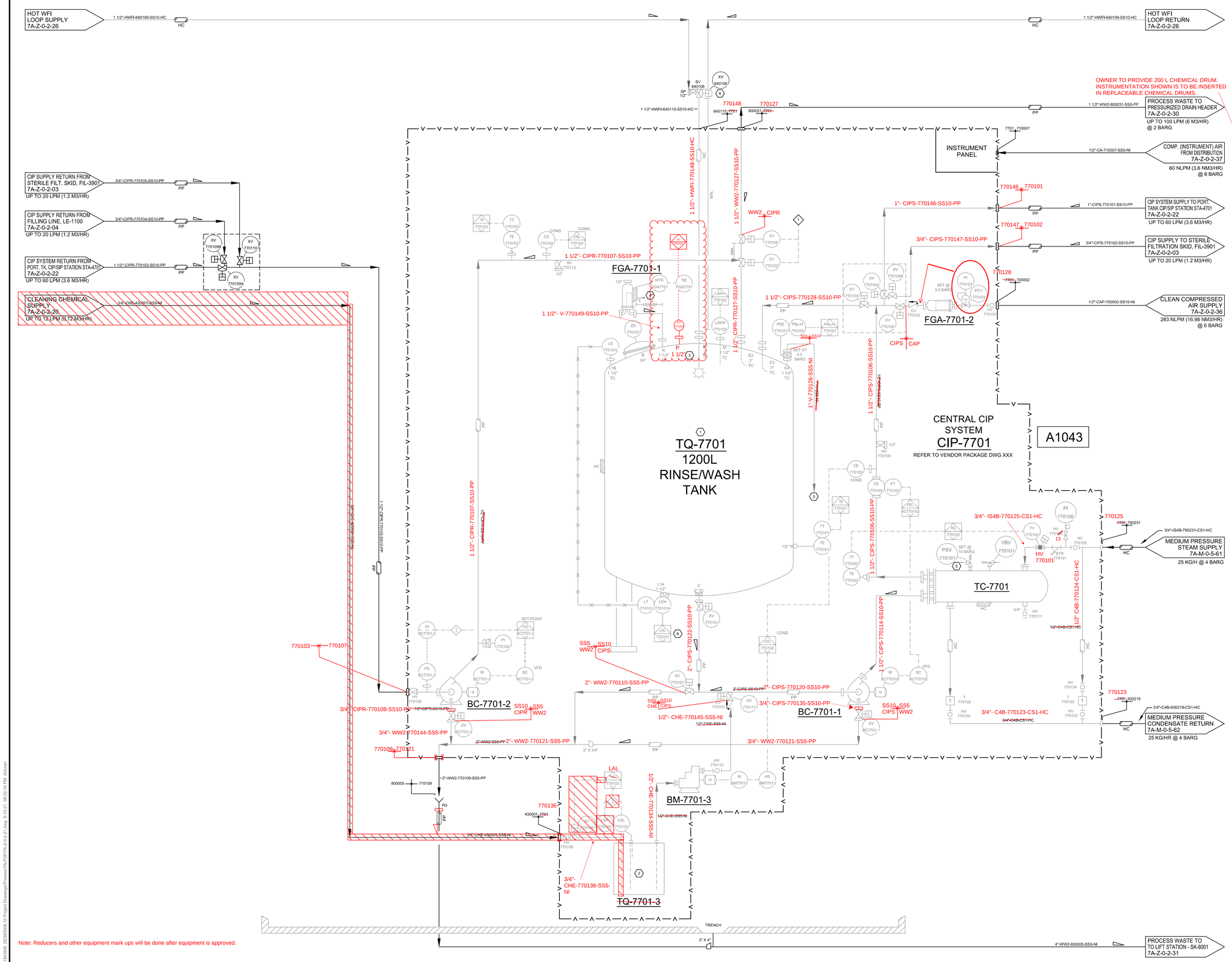
PO #: 8000676072
Project #: 210374A CIP Skids
VDR #(s): 023
Tag #(s): N/A



Note: Reducers and other equipment mark ups will be done after equipment is approved.

CIP-7701
CENTRAL CIP SYSTEM
TYPE: SINGLE TK, RECIRC.
CAPACITY: 1200 L
MOC: 316L STAINLESS STEEL

TQ-7701
RINSE / WASH TANK
TYPE: INSULATED, ASME PRESS. RATED
CAPACITY: 1200L WORKING
SIZE: TBD
MOC: 316LSS
RATING: VES/JKT: 4 BARG / N/A

FGA-7701-1
VENT FILTER
TYPE, HOUS/ELEM: T STYLE, GAS / 0.2 µm
CAPACITY: 12 M3/HR / UP TO 200 LPM
SIZE: 1 RD X 10"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR
ELEC: 220V / 60HZ / 1PH, 2.4A

FGA-7701-2
AIR BLOW FILTER
TYPE, HOUS/ELEM: INLINE, GAS / 0.2 µm
CAPACITY: 280 LPM (16.8 M3/HR)
SIZE: 1 RD X 10"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR

TQ-7701-3
CHEMICAL DAY TANK
TYPE: ATMOSPHERIC
CAPACITY: 5L
SIZE: TBD
MOC: POLYETHYLENE
DP/DT: N/A / AMBIENT

BC-7701-1
CIP SUPPLY PUMP
TYPE: HYGIENIC CENTRIFUGAL
CAPACITY: 200 LPM @ 3.5 BARG
MANUF/MODEL: TBD / TBD
MOC: 316/316LSS
POWER: 5.6 KW, 3/60/380 VAC MOTOR

BC-7701-2
CIP RETURN PUMP
TYPE: HYGIENIC LIQUID RING
CAPACITY: 200 LPM @ 2 BARG
MANUF/MODEL: FRISTAM / FZX
MOC: 316/316LSS
POWER: 5.6 KW, 3/60/380 VAC MOTOR

BM-7701-3
CHEMICAL DOSING PUMP
TYPE: METERING / ~~AIR OPERATED DOUBLE DIAPHRAGM~~
CAPACITY/SIZE: UP TO 8 LPM / 1/2"
MANUF/MODEL: LMI / TBD
MOC: POLYPROPYLENE / PTFE
POWER: TBD

TC-7701
TRIM HEATER
TYPE: HYGENIC SHELL AND TUBE
CAPACITY: 14 KW (HEAT 100 LPM @ 2°C ΔT)
MOC, SHELL/TUBES: STAINLESS STEEL / 316L SS
DP/DT: 10 BARG & F.V. / 200°C
AREA: TBD SQ. FT.

ISSUED FOR CONSTRUCTION

GENERAL NOTES:

1 ALL COMPONENT & EQUIPMENT NUMBERS ARE PRECEDED BY "7A" TO REPRESENT THE FINAL DRUG PRODUCT (FDP) BUILDING.
2 ALL AUTOMATIC VALVES FAIL CLOSED (F.C.) UNLESS NOTED FAIL OPEN (F.O.).
3 ALL PLC/COMPUTER CONNECTIONS ARE WITHIN THE PCS UNLESS OTHERWISE NOTED.
4 LAST LINE NUMBER: 770105 ~~49~~
5 LINE NUMBER NOT USED: NONE 770108-13, 15-19, 29-33, 35, 37-43
6 LAST AUTO VALVE NUMBER: XV-770111
7 AUTO VALVE NUMBERS NOT USED: NONE
8 LAST MANUAL VALVE NUMBER: HV-770112
9 MANUAL VALVE NUMBERS NOT USED: HV-770194 - 05 03

SHEET NOTES

1 VENDOR IS ENCOURAGED TO SUPPLY THEIR STANDARD CIP SYSTEM DESIGN AS LONG AS IT MEETS THE INTENT OF THE DESIGN SHOWN. REFER TO THE EQUIPMENT SPECIFICATION AND DATA SHEETS FOR MATERIALS OF CONSTRUCTION AND ADDITIONAL INFORMATION.
2 ~~VENDOR SHALL SUPPLY SECONDARY CONTAINMENT FOR CLEANING CHEMICAL DAY TANK.~~
3 APPROXIMATE FEED RATE - 60 LPM.
4 VENDOR SHALL SUPPLY MKS SERIES 48 NEMA 4X FILTER HOUSING HEATER WITH TEMPERATURE CONTROLLER ACCESSIBLE FROM GRADE LEVEL.
5 TO 150 MM ABOVE FINISHED FLOOR AND SAFE LOCATION.
6 OPEN/CLOSE THE HOT WFI FEED VALVE, XV-640106 BY THE TANK LEVEL CONTROL.

INTERLOCK

1 INTERLOCK TO XV-770102 AND XV-770106 PREVENTING OPENING BOTH VALVES AT THE SAME TIME.

ips
Integrated 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.

REVISION	DATE	DESCRIPTION	BY
A	01JUL2020	50% BD ISSUE	JJR
B	28AUG2020	90% BD ISSUE	JJR
C	27NOV2020	DESIGN ISSUE	JJR
D	12FEB2021	30% DD ISSUE	RLD
E	09JUL2021	90% DD ISSUE	RLD
G	10AUG2021	CONSTRUCTION ISSUE	RLD

TESSLER engenharia
R. Dr. Cesário Mota Júnior, 424 - Vila Buarque, São Paulo - SP, 01223-020

REVISION HISTORY

1 REV. 0 - MOVED PROCESS WASTE BELOW GROUND AND ADDED TRENCH.

Red is from A&B & Submittal Updates
Blue is from Debbie Updates
Green is From Tessler Updates
Purple is from AIV Updates

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CLIENT
Takeda
Hemobrás
Empresa brasileira de hemoderivados e biotecnologia
BURITI EPCMV

DRAWING TITLE
P&I DIAGRAM
DRUG PRODUCT
CIP SYSTEM,
CIP-7701

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
JJR	BJE	RBN	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
LG	GJC	NONE	7A-Z-0-2-21

SEAL
THIS IS NOT A SEALED DOCUMENT
DATE:

XREF FILE(S)
REVISION 0 A VERSION

DRAWING NUMBER
7A-Z-0-2-21

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