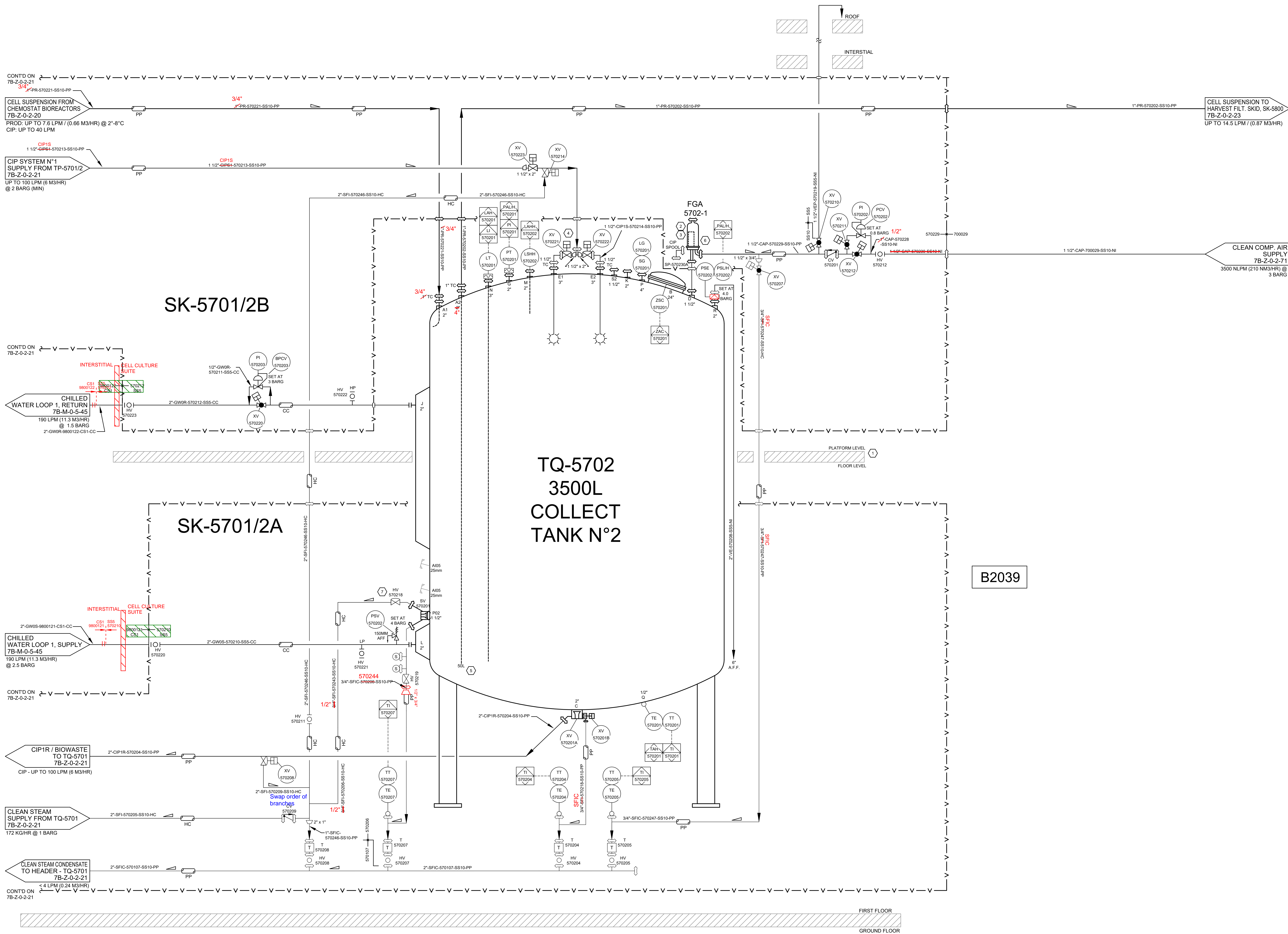


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- GENERAL NOTES:
- 1 ALL COMPONENT & EQUIPMENT NUMBERS ARE PRECEDED BY "7B" TO REPRESENT THE BULK DRUG SUBSTANCE (BDS) BUILDING
 - 2 ALL AUTOMATIC VALVES FAIL CLOSED (F.C.) UNLESS NOTED FAIL OPEN (F.O.)
 - 3 ALL P&ID COMPUTER CONNECTIONS ARE WITHIN THE PCS UNLESS OTHERWISE NOTED.
 - 4 LAST LINE NUMBERS
 - 5 LINE NUMBER NOT USED: 570201, 03, 06, 13, 16, 20, 22, 23, 24 - 27, 29 - 43
 - 6 LAST AUTO VALVE NUMBER: XV-570208, 13
 - 7 AUTO VALVE NUMBERS NOT USED: XV-570209, 13
 - 8 LAST MANUAL VALVE NUMBER: HV-570223
 - 9 MANUAL VALVE NUMBERS NOT USED: HV-570201 - 06, 09, 14, 16

- SHEET NOTES
- 1 THE EQUIPMENT ACCESS PLATFORM IS NOT PART OF THE PROCESS SKID VENDORS SCOPE AND WILL BE FIELD ERCTED.
 - 2 FILTER HOUSING WILL BE CLEANED OUT OF PLACE.
 - 3 FILTER INTEGRITY TESTING PERFORMED OUT OF PLACE
 - 4 SPRAYBALL ASSEMBLY WITH DIAPHRAGM VALVES (HV-570221/570222) TO BE PROVIDED LOOSE BY VENDOR FOR FIELD INSTALLATION.
 - 5 DIPTUBE TO EXTEND TO SOL WORKING VOLUME LEVEL. FOLLOWING HARVEST FILTRATION, REMAINING SOL OF CELL CULTURE IN COLLECTION TANK IS DRAINED TO BIOWASTE THROUGH BOTTOM OUTLET VALVE.
 - 6 J-STYLE FILTER W/ EXTENDED STRAIGHT FERRULE. FILTER HOUSING REPLACED WITH SPOOL PIECE DURING VESSEL CIP.
 - 7 SAMPLE TEES TO BE ORIENTED AWAY FROM OPERATOR DURING MANUAL ACTUATION OF HV-570216.

- INTERLOCKS
- 1 SAFETY INTERLOCK - E-STOP ACTIVATION (7B-Z-0-2-21) REMOVES AIR TO ALL ACTUATED VALVES AND DE-ENERGIZES ALL MOTORS (HARDWIRED).
 - 8 DIPTUBE SHALL BE LIFTED AT LEAST X" VERTICALLY BEFORE BEING TILTED FOR FULL REMOVAL FROM VESSEL. IN ORDER TO AVOID CONTACT WITH VESSEL STEEL.

TQ-5702
COLLECT TANK
TYPE: JACKETED, ASME PRESS. RATED
CAPACITY: 3500 NLPM WORKING
SIZE: 11624mm ID X 1980mm TT
MOC: 316LSS
RATING: VES/UKT: 4 BARG, FV / 4 BARG, FV

FGA-5702-1
VENT FILTER
TYPE: HOUS/ELEM: J-STYLE, GAS / 0.2 µm
CAPACITY: 3500 NLPM / 210 NM3HR (1.0 VVM)
SIZE: 1 RD X 10"H
MOC: 316L HOUSING/PTFE ELEMENT
DIPTOT: ≤ 0.14 BAR
DESIGN PRESSURE: 10 BARG / FV

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REVISION	DATE	DESCRIPTION	BY
A	28AUG2020	90% BD ISSUE	JMR
B	27NOV2020	DESIGN ISSUE	JMR
C	12FEB2021	30% DO ISSUE	RLO
D	15JUL2021	80% DO ISSUE	RLO
0	16AUG2021	CONSTRUCTION ISSUE	RLO

DRAFT
INTERIM P&ID REDLINES
14JUL2022



R. Dr. Cesário Mota Júnior, 434 - Vila Buarque, São Paulo - SP, 01221-020

REVISION HISTORY

1 REV 0 - NONE

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CLIENT



BURITI EPCMV

DRAWING TITLE

P&I DIAGRAM
DRUG SUBSTANCE
3400L COLLECTION
TANK N°2, TQ-5702

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
JUR	BJE	JJR	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
LG	GJC	NONE	7B-Z-0-2-22

XREF FILE(S)



DRAWING NUMBER

7B-Z-0-2-22