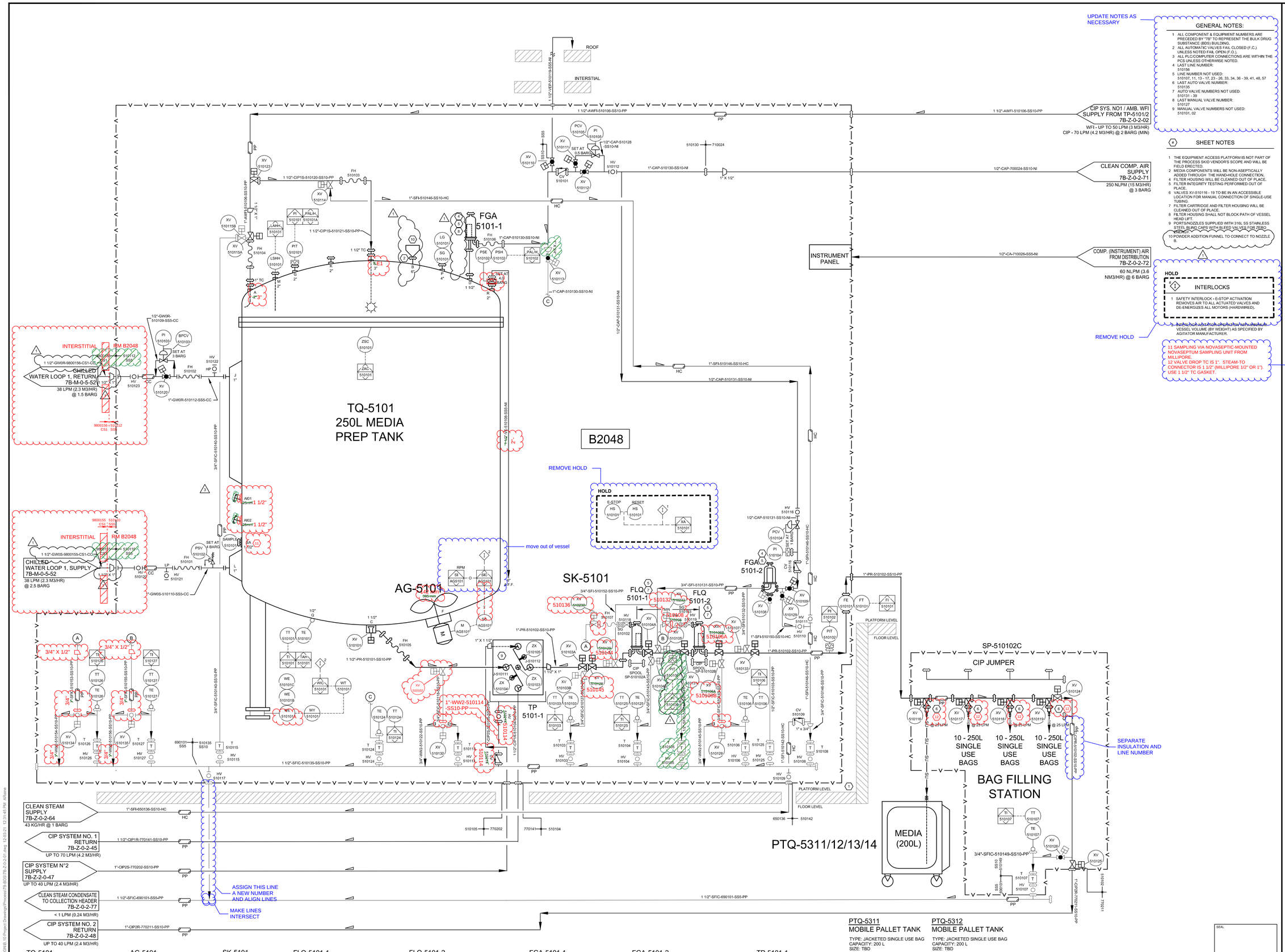

UPDATE NOTES AS NECESSARY

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 PLC/COMPUTER CONNECTIONS ARE WITHIN THE PCS UNLESS OTHERWISE NOTED.
4. LAST LINE NUMBER: 510156
5. LINE NUMBER NOT USED: 510107, 11, 13 - 17, 23 - 26, 33, 34, 36 - 39, 41, 48, 57
6. LAST AUTO VALVE NUMBER: 510135
7. AUTO VALVE NUMBERS NOT USED: 510131 - 39
8. LAST MANUAL VALVE NUMBER: 510127
9. MANUAL VALVE NUMBERS NOT USED: 510101, 02

SHEET NOTES

1. THE EQUIPMENT ACCESS PLATFORM IS NOT PART OF THE PROCESS SKID VENDOR'S SCOPE AND WILL BE FIELD ERECTED.
2. MEDIA COMPONENTS WILL BE NON-ASEPTICALLY ADDED THROUGH THE HANDHOLE CONNECTION.
4. FILTER HOUSING WILL BE CLEANED OUT OF PLACE.
5. FILTER INTEGRITY TESTING PERFORMED OUT OF PLACE.
6. VALVES XV-510116 - 19 TO BE IN AN ACCESSIBLE LOCATION FOR MANUAL CONNECTION OF SINGLE-USE TUBING.
7. FILTER CARTRIDGE AND FILTER HOUSING WILL BE CLEANED OUT OF PLACE.
8. FILTER HOUSING SHALL NOT BLOCK PATH OF VESSEL HEAD LIFT.
9. PORTS/NOZZLES SUPPLIED WITH 316L SS STAINLESS STEEL BLIND CAPS WITH BLEED VALVES FOR ZERO ENERGY.
10. POWDER ADDITION FUNNEL TO CONNECT TO NOZZLE B.

HOLD

INTERLOCKS

1. SAFETY INTERLOCK - E-STOP ACTIVATION REMOVES AIR TO ALL ACTUATED VALVES AND DE-ENERGIZES ALL MOTORS (HARDWIRED).
2. INTERLOCK ABSTRACTION OPERATION WITH MAXIMUM VESSEL VOLUME (BY WEIGHT) AS SPECIFIED BY AGITATOR MANUFACTURER.

REMOVE HOLD

11 SAMPLING VIA NOVASEPTIC-MOUNTED NOVASEPTUM SAMPLING UNIT FROM MILLIPORE.
12 VALVE DROP TC IS 1", STEAM-TO CONNECTOR IS 1 1/2" (MILLIPORE 1/2" OR 1"). USE 1 1/2" TC GASKET.

MOVE UP TO SHEET NOTES SECTION.

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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	05AUG2021	90% DD ISSUE	RLD
G	02SEP2021	CONSTRUCTION ISSUE	RLD
1	03DEC2021	REVISED CONSTRUCTION ISSUE	RLD

DRAFT
INTERIM P&ID REDLINES
03JUN2022

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

REVISION HISTORY

1. REV. 1 - REDUCER AND EXPANDER ADDED TO LINES 9800155 AND 9800156
2. REV. 1 - SPOOL PIECE SP-510130A REMOVED FROM SCOPE
3. REV. 1 - POWDER ADDITION FUNNEL ADDED TO HANDHOLE.
4. REV. 1 - NEW SANITARY TEE AND PIT

MARKUP LEGEND

ADDITIONS
DELETIONS
NOTES

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CLIENT
Takeda
Hemobrás
Empresa brasileira de hemoderivados e biotecnologia
BURITI EPCMV

DRAWING TITLE
P&I DIAGRAM
DRUG SUBSTANCE
250L MEDIA PREP TANK,
TQ-5101 & MEDIA DIST.

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

XREF FILE(S)
REVISION 1 A VERSION

DRAWING NUMBER
7B-Z-0-2-01

SEAL
THIS IS NOT A SEALED DOCUMENT
DATE:

ISSUED FOR CONSTRUCTION

TQ-5101
MEDIA PREP TANK
TYPE: JACKETED, ASME PRESS. RATED
CAPACITY: 250L WORKING
SIZE: 660mm ID x 864mm TT / 965mm TT
MOC: 316LSS
RATING: VESJKT: 4 BARG, FV / 4 BARG, FV / 6.9 BARG

AG-5101
AGIT. ASSEMBLY
TYPE: MAGNETIC
MAN./MODEL: NOVASEPTIC / GMP500
SPEED: 50 - 490 RPM
MOC: 316LSS
POWER: 0.25 KW, 3/60/230–400VAC

SK-5101
MEDIA PREP SKID
TYPE: HYGIENIC PIPING SKID
FLOW: TBD
SIZE: TBD
MOC: 316SS FRAME
POWER: N/A

FLQ-5101-1
PRODUCT TRANSFER FILTER
TYPE, HOUS/ELEM: TEE PORT, LIQ / 0.2 µm
CAPACITY: 12 LPM (0.72 M3/HR)
SIZE: 1 RD X 10"H
MOC: 316L HOUSING/CELLULOSE ACETATE ELEM.
DP/DT: ≤ 0.34 BAR
DESIGN PRESSURE: 10 BARG / FV

FLQ-5101-2
PRODUCT TRANSFER FILTER
TYPE, HOUS/ELEM: TEE PORT, LIQ / 0.1 µm
CAPACITY: 12 LPM (0.72 M3/HR)
SIZE: 1 RD X 10"H
MOC: 316L HOUSING/CELLULOSE ACETATE ELEM.
DP/DT: ≤ 0.34 BAR
DESIGN PRESSURE: 10 BARG / FV

FGA-5101-1
VENT FILTER
TYPE, HOUS/ELEM: TEE PORT, GAS / 0.2 µm
CAPACITY: 250 NLPM / 15 NM3/HR, (1.0 VVM)
SIZE: 1 RD X 5"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR
DESIGN PRESSURE: 10 BARG / FV

FGA-5101-2
XFER LINE BLOWDOWN FILTER
TYPE, HOUS/ELEM: TEE PORT, GAS / 0.2 µm
CAPACITY: 280 NLPM / 16.8 M3/HR
SIZE: 1 RD X 5"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR
DESIGN PRESSURE: 10 BARG / FV

TP-5101-1
TRANSFER PANEL
TYPE: HYGIENIC, CUSTUM 4-PORT
DUTY: VESSEL DISCHARGE
SIZE: TBD
MOC: 316LSS
ASSEC: 2 U-BEND, 3 PROX. SWITCHES

PTQ-5311
MOBILE PALLET TANK
TYPE: JACKETED SINGLE USE BAG
CAPACITY: 200 L
SIZE: TBD

PTQ-5312
MOBILE PALLET TANK
TYPE: JACKETED SINGLE USE BAG
CAPACITY: 200 L
SIZE: TBD

PTQ-5313
MOBILE PALLET TANK
TYPE: JACKETED SINGLE USE BAG
CAPACITY: 200 L
SIZE: TBD

PTQ-5314
MOBILE PALLET TANK
TYPE: JACKETED SINGLE USE BAG
CAPACITY: 200 L
SIZE: TBD

/pubs/Vault/19194/DB_DESIGN/B_10 Project Drawings/Process/7B-B2048/7B-Z-0-2-01.dwg 12/03/21 12:31:45 PM AStane