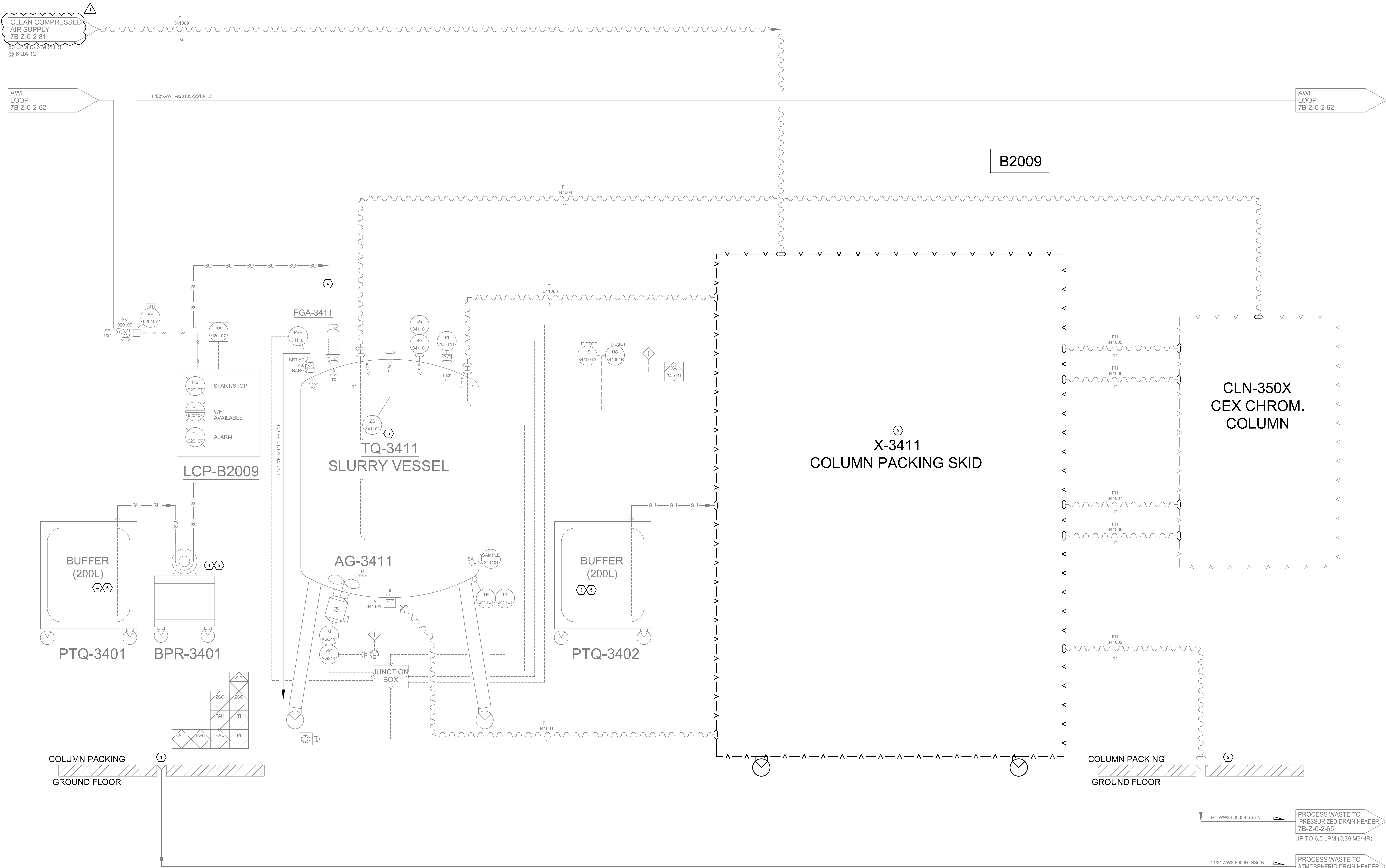


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X-3411
COLUMN PACKING SKID
TYPE: AODD, MANUAL, PORTABLE
CAPACITY: 2 PUMP
MOC: 316L SS

Robert L. De Souza Jr.
**ISSUED FOR
CONSTRUCTION**

SEAL
THIS IS NOT A
SEALED DOCUMENT
DATE: _____

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: NONE.
5. LINE NUMBER NOT USED: NONE.
6. LAST AUTO VALVE NUMBER: NONE.
7. AUTO VALVE NUMBERS NOT USED: NONE.
8. LAST MANUAL VALVE NUMBER: NONE.
9. MANUAL VALVE NUMBERS NOT USED: NONE.

SHEET NOTES

1. NORMALLY A SEALED DRAIN, OPENED IN THE EVENT OF A SPILL.
2. NORMALLY A SEALED DRAIN, CONNECTED TO EQUIPMENT FOR PROCESS WASTE DRAIN.
3. BUFFER PALLET TANK USED FOR EITHER RB BUFFER OR OH BUFFER.
4. BUFFER PALLET TANK AND PERISTALTIC PUMP USED FOR BUFFER ADDITION TO SLURRY TANK. SINGLE-USE DISPOSABLE TUBING FROM PALLET TANK CONNECTED TO SLURRY TANK AT NOZZLE BEFORE COLUMN PACKING OPERATION.
5. UTILITY CONNECTIONS, ANCILLARY EQUIPMENT AND FLEXIBLE HOISING ARE SHARED BETWEEN ALL EQUIPMENT IN COLUMN PACKING.

INTERLOCKS

1. SAFETY INTERLOCK - E-STOP ACTIVATION REMOVES POWER SUPPLY TO PROCESS SKID TO AND REMOVES POWER SUPPLY TO RECEPTACLES (HARDWIRED).

ips

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REVISION	DATE	DESCRIPTION	BY
A	12/01/2021	90% DD ISSUE	R.L.D.
B	06/AUG/2021	90% DD ISSUE	R.L.D.
0	02/SEP/2021	CONSTRUCTION ISSUE	R.L.D.
1	03/SEP/2021	REVISED CONSTRUCTION ISSUE	R.L.D.

TESSLER
engenharia

R. Dr. Cesário Mota Júnior, 424 - Vila Bourque, São Paulo - SP, 01211-020

REVISION HISTORY

1. REV. 1 - UPDATED COMPRESSED AIR OFF PAGE CONNECTOR TO BE "CLEAN COMPRESSED AIR" AND REMOVES POWER SUPPLY TO RECEPTACLES (HARDWIRED).

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CLIENT

Takeda

Hemobrás
Empresa S.A. de Capital Aberto e de Investimento

BURITI EPCMV

DRAWING TITLE

**P&I DIAGRAM
DRUG SUBSTANCE
COLUMN PACKING SKID
X-3411**

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
JJR	BUE	RBN	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
RBN	GJC	NONE	7B-Z-0-2-80

XREF FILE(S)

DRAWING NUMBER

7B-Z-0-2-80