

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:
- 5 LINE NUMBER NOT USED:
- 6 LAST AUTO VALVE NUMBER: XV-260001
- 8 LAST MANUAL VALVE NUMBER:

7 AUTO VALVE NUMBERS NOT USED:

HV-260003 9 MANUAL VALVE NUMBERS NOT USED: NONE

SHEET NOTES

- 2 VACUUM JACKETED PIPE STAINLESS STEEL ASTM A312, TYPE 304. FINAL DESIGN BY CRYOGENIC CONTRACTOR.
- 3 DELETED.
- 5 HOLD PENDING ASPHYXIATION ASSESSMENT.
- INTENT. FINAL DESIGN DETAILS TO BE PROVIDED
- ON THE VENT DISCHARGE. FLOW SWITCH AND QUICK DUMP VALVE IN THE

HOLD _-----

LOW OXYGEN LEVEL IN CELL BANKING ROOM TURNS ON ALARM AND LIGHT AND ENGAGES EMERGENCY EXHAUST FAN.

4 MANUAL VALVES WITH BONNET EXTENSIONS FOR CRYOGENIC SERVICE.

6 CHART ADF105 OR EQUIVALENT TO BE SPECIFIED AND PROVIDED BY CRYOGENIC CONTRACTOR. 7 CONTROLS INSIDE VENDOR BOX ARE DESIGN

BY VENDOR. 8 VENT TO A SAFE LOCATION. PROVIDE SCREENING 9 CRYOGENIC CONTRACTOR TO PROVIDE A HIGH

EVENT OF RUNAWAY FLOW.

INTERLOCKS

Project 721 Arbor Way Services

Engineering Design/Build

Compliance

Consulting

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EVISION	DATE	DESCRIPTION	BY
Α	28AUG2020	90% BD ISSUE	JJR
В	27NOV2020	DESIGN ISSUE	JJR
С	12FEB2021	30% DD ISSUE	RLD
D	12AUG2021	90% DD ISSUE	RLD
0	09SEP2021	CONSTRUCTION ISSUE	RLD
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REVISION HISTORY

1 REV. 0 - NONE.

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BURITI EPCMV

P&I DIAGRAM DRUG SUBSTANCE LIQUID NITROGEN **DISTRIBUTION**

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DRAWING NUMBER

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Robert L. De Somiei Jr. ISSUED FOR CONSTRUCTION