

NOTE: REMOVE FACTORY INSTALLED JUMPER BETWEEN L AND 5 IN CHILLER PANEL ON XTBC2 TERMINAL BOARD TO BE USED AS EMERGENCY STOP.

WIRING NOTES

208/120VAC	480/277VAC	24VDC
PHASE A - BLACK	PHASE A - BROWN	POSITIVE - RED
PHASE B - RED	PHASE B - ORANGE	NEGATIVE - GRAY
PHASE C - BLUE	PHASE C - YELLOW	
NEUTRAL - WHITE	NEUTRAL - GRAY	24VAC
GROUND - GREEN	GROUND - GREEN	PHASE A - RED
		NEUTRAL - BROWN

INTRINSICALLY SAFE WIRING 18AWG LIGHT BLUE AND MUST BE SEPARATED FROM OTHER WIRING BY MINIMUM OF 2". IF CABLE USED IT MUST BE SHIELDED.

IF VAC WIRING GAUGE NOT SPECIFIED USE 18 AWG
IF VDC WIRING GAUGE NOT SPECIFIED USE 18 AWG

DANGER
HIGH VOLTAGE
TURN OFF POWER
BEFORE SERVICING

WARNING:
FLOW SWITCH IS FACTORY
SET AT 2.5 D.P.
TO ADJUST, TURN
CLOCKWISE TO INCREASE D.P.
TURN COUNTER CLOCKWISE
TO DECREASE D.P.

NOTE:
UNIT IS EQUIPPED WITH A
LOCKOUT TIMER.
480 VOLT POWER SHOULD BE
APPLIED ONE (1) HOUR
BEFORE STARTING CHILLER
COMPRESSOR OIL HEATERS
UTILIZE 480 VOLT POWER.

- NOTES:**
- SEE NC-REF001-C001 FOR FIELD WIRING SPECIFICATION.
 - ALL DEVICES SHOWN DE-ENERGIZED.
 - WIRE POINT TO POINT PER WIRE CHART.
 - EACH END OF EACH CONTROL AND POWER WIRE TO BE MARKED WITH HEAT SHRINK MARKERS.

REV#	DATE	DESIGNER	DESCRIPTION
0	04/03/2018	B. LANDRY	FOR CUSTOMER'S APPROVAL
1	04/09/2018	B. LANDRY	ISSUE FOR CONSTRUCTION
2	06/29/2018	J.OMALLEY	AS BUILT



THIS DRAWING AND THE INFORMATION HEREIN CONTAINED ARE THE PROPERTY OF CUSTOM AIR PRODUCTS, WHICH HAS FURNISHED THEM IN CONFIDENCE UPON THE UNDERSTANDING AND CONDITION THAT ALL PERSONS, FIRMS OR CORPORATIONS RECEIVING SUCH DRAWINGS AND INFORMATION SHALL BY THE ACT OF RECEIVING THEM BE DEEMED TO HAVE AGREED: TO MAKE NO COPY, DUPLICATION, DISCLOSURE OR USE WHATSOEVER OF ALL OR ANY PART THEREOF EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY CUSTOM AIR PRODUCTS: NOT TO GIVE, LEND OR OTHERWISE DISPOSE OF THIS DRAWING: AND TO RETURN THIS DRAWING PROMPTLY UPON REQUEST.

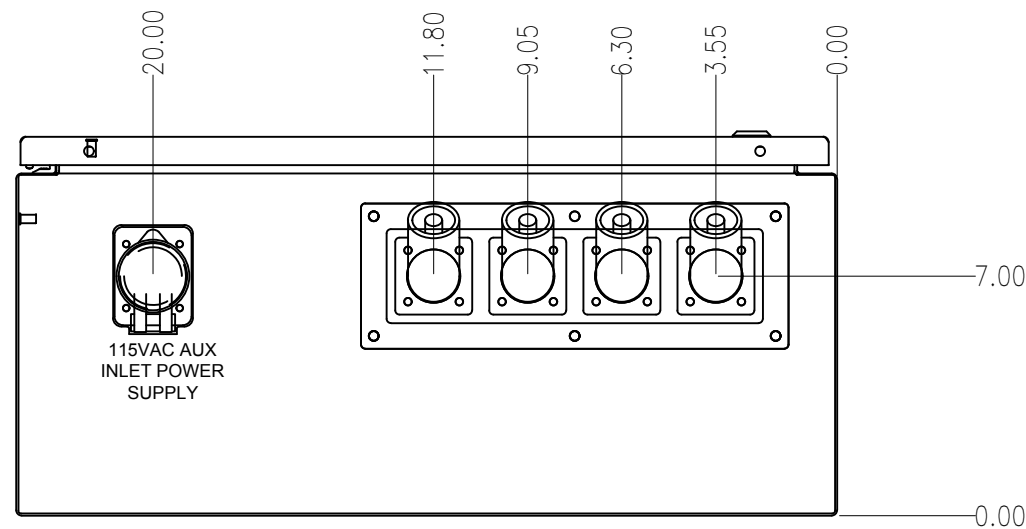
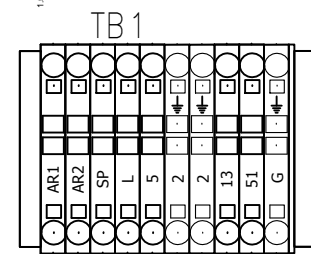
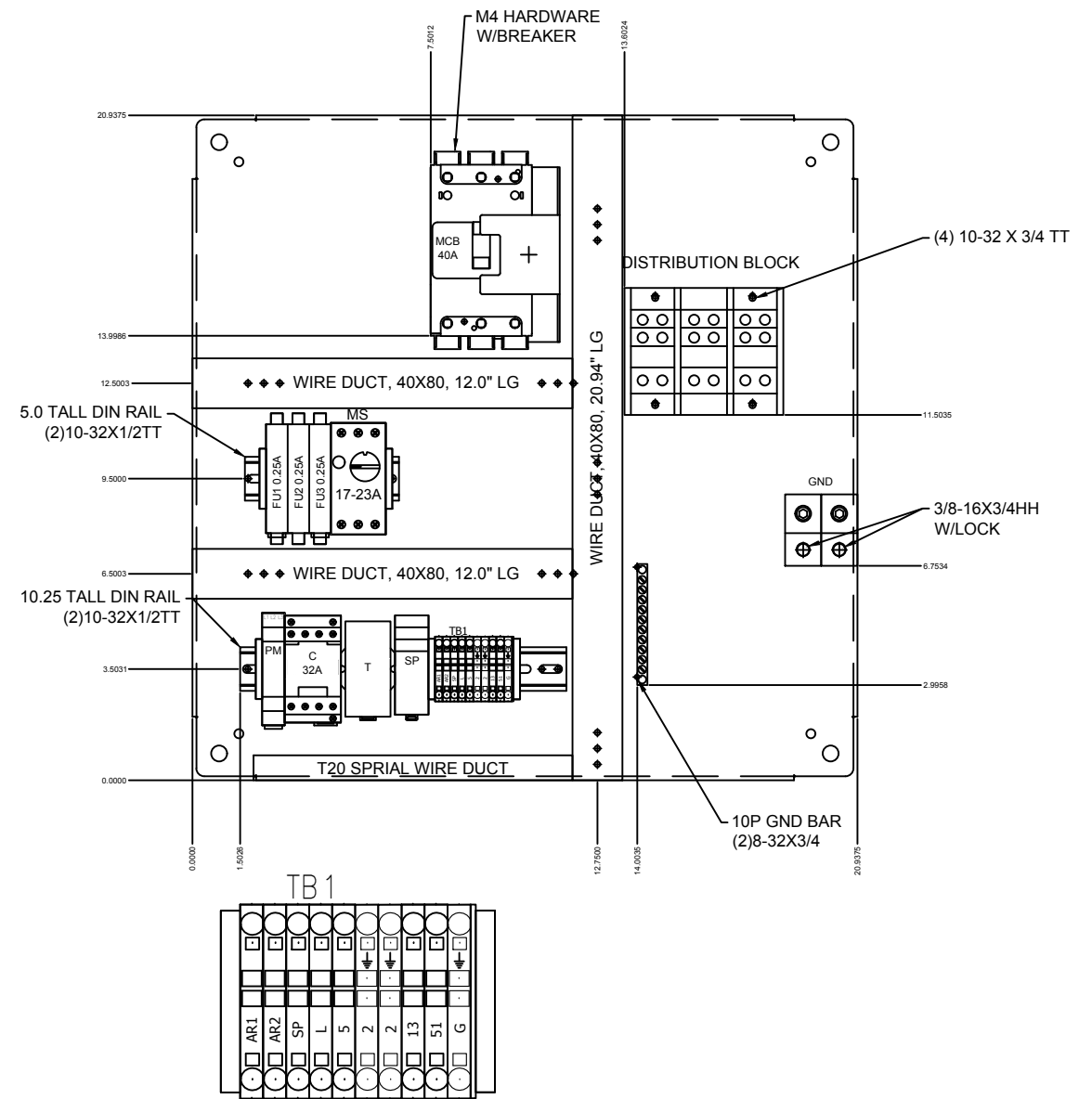
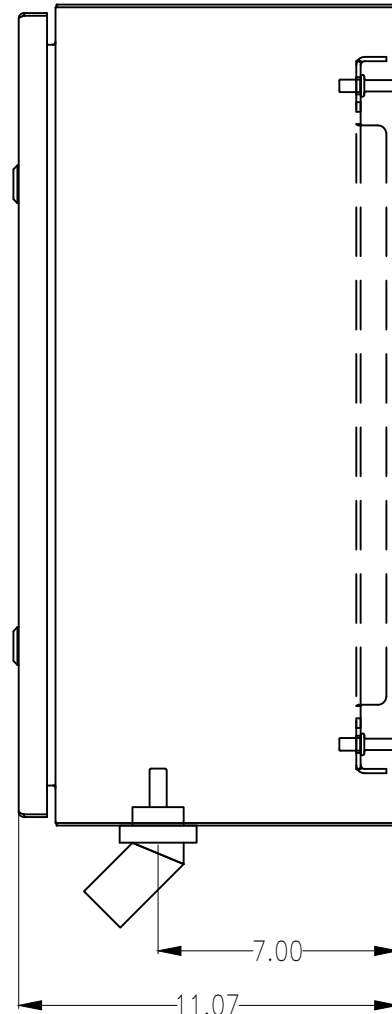
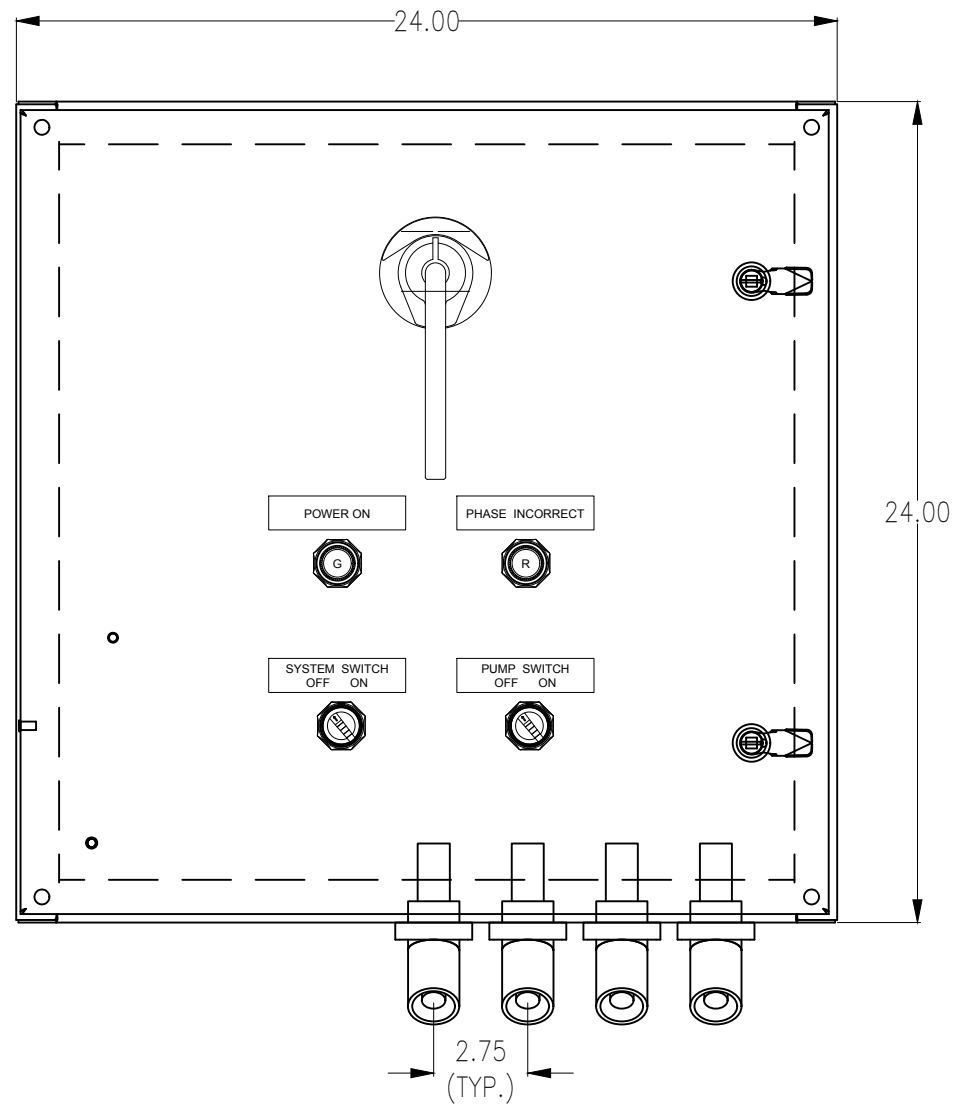
CERTIFIED AS-BUILT

CHECKER: _____ DATE: _____
APPROVER: _____ DATE: _____

CAPS NO.:	DRAWING:	DRAWN BY:	DATE:
18F-0175	E1	B. LANDRY	04/03/2018
CUST. PO#:	SHEET:	CHECKED BY:	DATE:
1087073	1 OF 4	DAVID NGUYEN	04/09/2018
SIZE:	REV:	APPROVED BY:	DATE:
B	1	LARRY NOVAK	06/29/2018

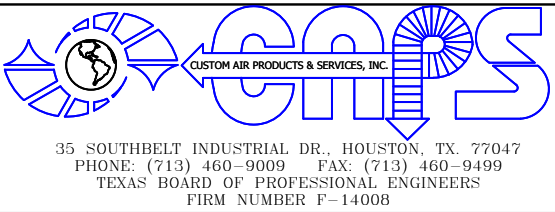
CUSTOMER: **HERC**

120 TON SKID MOUNTED & CAGED CHILLER
GALV. SKID, GALV. CAGE, 4" CONNECTIONS
600 GPM @ TDH, 460V/3PH/60HZ GP
ELECTRICAL DESIGN
POWER SCHEMATIC



NOTES:
 1. EACH DEVICE TO HAVE (2) LABELS. ONE ON DEVICE, ONE ON PANEL BEHIND DEVICE.

REV#	DATE	DESIGNER	DESCRIPTION
0	04/03/2018	B. LANDRY	FOR CUSTOMER'S APPROVAL
1	04/09/2018	B. LANDRY	ISSUE FOR CONSTRUCTION
2	06/29/2018	J.OMALLEY	AS BUILT



THIS DRAWING AND THE INFORMATION HEREIN CONTAINED ARE THE PROPERTY OF CUSTOM AIR PRODUCTS, WHICH HAS FURNISHED THEM IN CONFIDENCE UPON THE UNDERSTANDING AND CONDITION THAT ALL PERSONS, FIRMS OR CORPORATIONS RECEIVING SUCH DRAWINGS AND INFORMATION SHALL BY THE ACT OF RECEIVING THEM BE DEEMED TO HAVE AGREED: TO MAKE NO COPY, DUPLICATION, DISCLOSURE OR USE WHATSOEVER OF ALL OR ANY PART THEREOF EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY CUSTOM AIR PRODUCTS: NOT TO GIVE, LEND OR OTHERWISE DISPOSE OF THIS DRAWING; AND TO RETURN THIS DRAWING PROMPTLY UPON REQUEST.

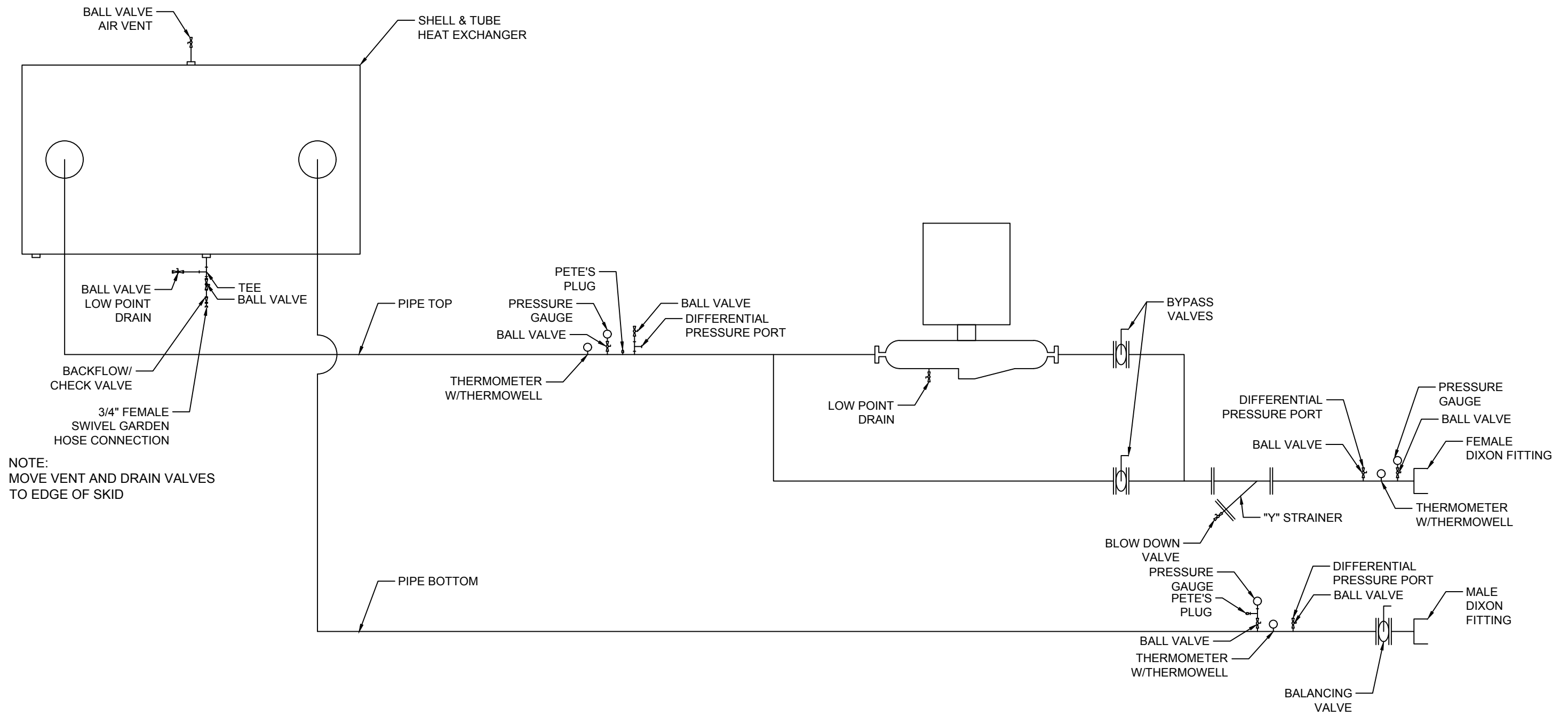
CERTIFIED AS-BUILT

CHECKER: _____ DATE: _____
 APPROVER: _____ DATE: _____

CAPS NO.:	DRAWING:	DRAWN BY:	DATE:
18F-0175	E2	B. LANDRY	04/03/2018
CUST. PO#:	SHEET:	CHECKED BY:	DATE:
1087073	2 OF 4	DAVID NGUYEN	04/09/2018
SIZE:	REV:	APPROVED BY:	DATE:
B	1	LARRY NOVAK	06/29/2018

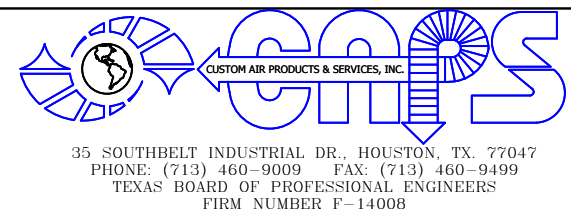
CUSTOMER: **HERC**

**120 TON SKID MOUNTED & CAGED CHILLER
 GALV. SKID, GALV. CAGE, 4" CONNECTIONS
 600 GPM @ TDH, 460V/3PH/60HZ GP
 ELECTRICAL DESIGN
 PANEL LAYOUT DIAGRAM**



NOTE:
MOVE VENT AND DRAIN VALVES
TO EDGE OF SKID

REV#	DATE	DESIGNER	DESCRIPTION
0	04/03/2018	B. LANDRY	FOR CUSTOMER'S APPROVAL
1	04/09/2018	B. LANDRY	ISSUE FOR CONSTRUCTION
2	06/29/2018	J.OMALLEY	AS BUILT



THIS DRAWING AND THE INFORMATION HEREIN CONTAINED ARE THE PROPERTY OF CUSTOM AIR PRODUCTS, WHICH HAS FURNISHED THEM IN CONFIDENCE UPON THE UNDERSTANDING AND CONDITION THAT ALL PERSONS, FIRMS OR CORPORATIONS RECEIVING SUCH DRAWINGS AND INFORMATION SHALL BY THE ACT OF RECEIVING THEM BE DEEMED TO HAVE AGREED: TO MAKE NO COPY, DUPLICATION, DISCLOSURE OR USE WHATSOEVER OF ALL OR ANY PART THEREOF EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY CUSTOM AIR PRODUCTS: NOT TO GIVE, LEND OR OTHERWISE DISPOSE OF THIS DRAWING; AND TO RETURN THIS DRAWING PROMPTLY UPON REQUEST.

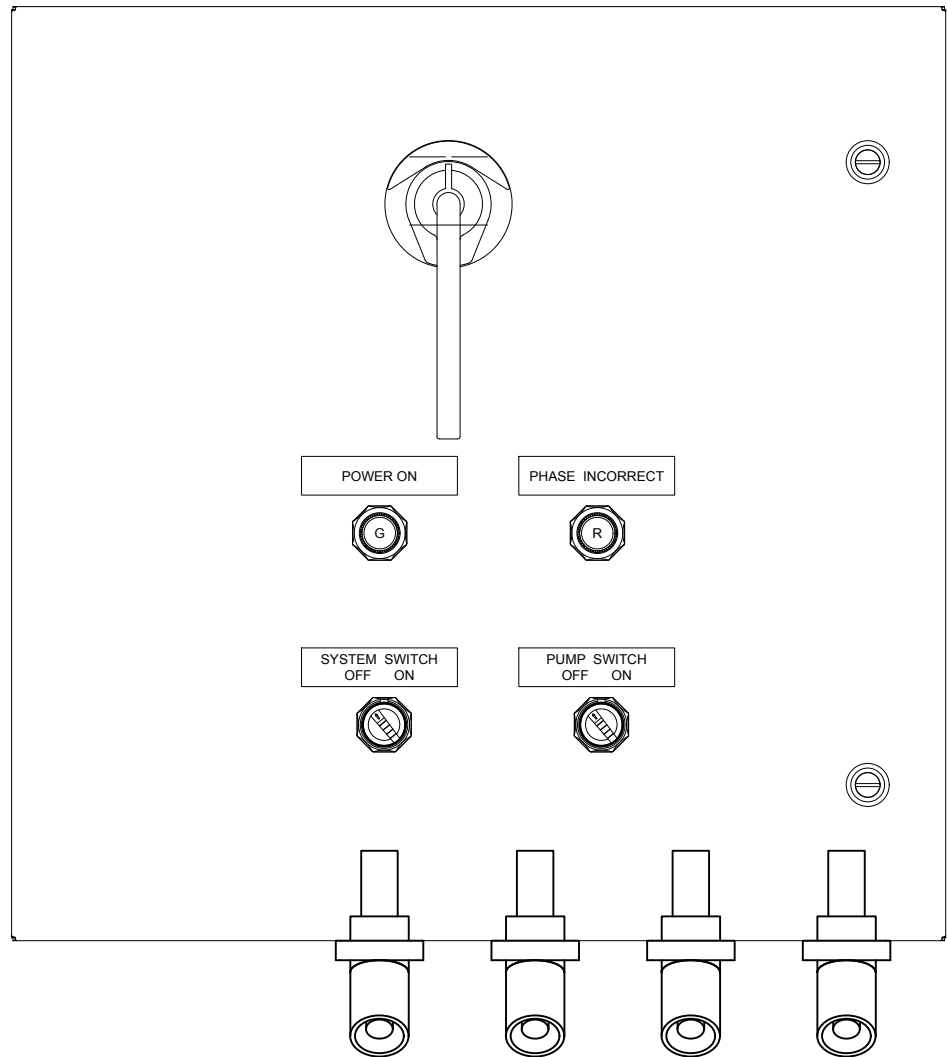
CERTIFIED AS-BUILT

CHECKER: _____ DATE: _____
APPROVER: _____ DATE: _____

CAPS NO.:	DRAWING:	DRAWN BY:	DATE:
18F-0175	E3	B. LANDRY	04/03/2018
CUST. PO#:	SHEET:	CHECKED BY:	DATE:
1087073	3 OF 4	DAVID NGUYEN	04/09/2018
SIZE:	REV:	APPROVED BY:	DATE:
B	1	LARRY NOVAK	06/29/2018

CUSTOMER: **HERC**

**120 TON SKID MOUNTED & CAGED CHILLER
GALV. SKID, GALV. CAGE, 4" CONNECTIONS
600 GPM @ TDH, 460V/3PH/60HZ GP
ELECTRICAL DESIGN
PIPING AND INSTRUMENTATION DIAGRAM**

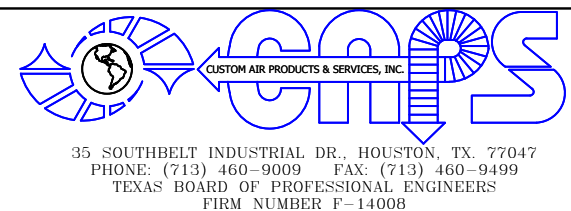


SEQUENCE OF OPERATION

The system is placed into initial operation as follows:

- Turn Master Switch and Pump Switch to "OFF"
- Turn Pump and Chiller Circuit Breakers "ON"
 - If the "Phase Incorrect" light is on, turn off the circuit breakers; reverse two (2) phases of incoming power for proper phase sequencing then check the incoming power source to be sure the unit has a good power source - 460V/3P/60HZ
 - If the "Main Power On" light is on and the "Phase Incorrect" light is off, turn Master Switch to "ON": Chiller will be ready for Crankcase Heater pre-heat and can be operated after 60 minute time delay
- Turn Pump Switch to "ON"
- Turn Chiller Switch to "ON" then set chilled leaving water setpoint
- To shut down Chiller and Pump:
 - 1- Raise setpoint to 70F
 - 2- Turn off Chiller Switch
 - 3- Turn off Pump Switch
 - 4- Turn off Master Switch

REV#	DATE	DESIGNER	DESCRIPTION
0	04/03/2018	B. LANDRY	FOR CUSTOMER'S APPROVAL
1	04/09/2018	B. LANDRY	ISSUE FOR CONSTRUCTION
2	06/29/2018	J.OMALLEY	AS BUILT



THIS DRAWING AND THE INFORMATION HEREIN CONTAINED ARE THE PROPERTY OF CUSTOM AIR PRODUCTS, WHICH HAS FURNISHED THEM IN CONFIDENCE UPON THE UNDERSTANDING AND CONDITION THAT ALL PERSONS, FIRMS OR CORPORATIONS RECEIVING SUCH DRAWINGS AND INFORMATION SHALL BY THE ACT OF RECEIVING THEM BE DEEMED TO HAVE AGREED: TO MAKE NO COPY, DUPLICATION, DISCLOSURE OR USE WHATSOEVER OF ALL OR ANY PART THEREOF EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY CUSTOM AIR PRODUCTS: NOT TO GIVE, LEND OR OTHERWISE DISPOSE OF THIS DRAWING; AND TO RETURN THIS DRAWING PROMPTLY UPON REQUEST.

CERTIFIED AS-BUILT

CHECKER: _____ DATE: _____

APPROVER: _____ DATE: _____

CAPS NO.:	DRAWING:	DRAWN BY:	DATE:
18F-0175	E4	B. LANDRY	04/03/2018
CUST. PO#:	SHEET:	CHECKED BY:	DATE:
1087073	4 OF 4	DAVID NGUYEN	04/09/2018
SIZE:	REV:	APPROVED BY:	DATE:
B	1	LARRY NOVAK	06/29/2018

CUSTOMER: **HERC**

**120 TON SKID MOUNTED & CAGED CHILLER
GALV. SKID, GALV. CAGE, 4" CONNECTIONS
600 GPM @ TDH, 460V/3PH/60HZ GP
ELECTRICAL DESIGN
SEQUENCE OF OPERATION**