



 Gachsaran Polymer Industries Company PIDMCO	Gachsaran Polymer Industries Company HDPE Plant				
	LCP and Junction Box Layout, Arrangement and Wiring Drawing for Refrigerator Package		 		
PO No.: GPIC-PT-MA-PO-000-3029	Document Number: VD-GPIC-MA-3029-3029-0046	Rev. 01	Page 1 of 14		

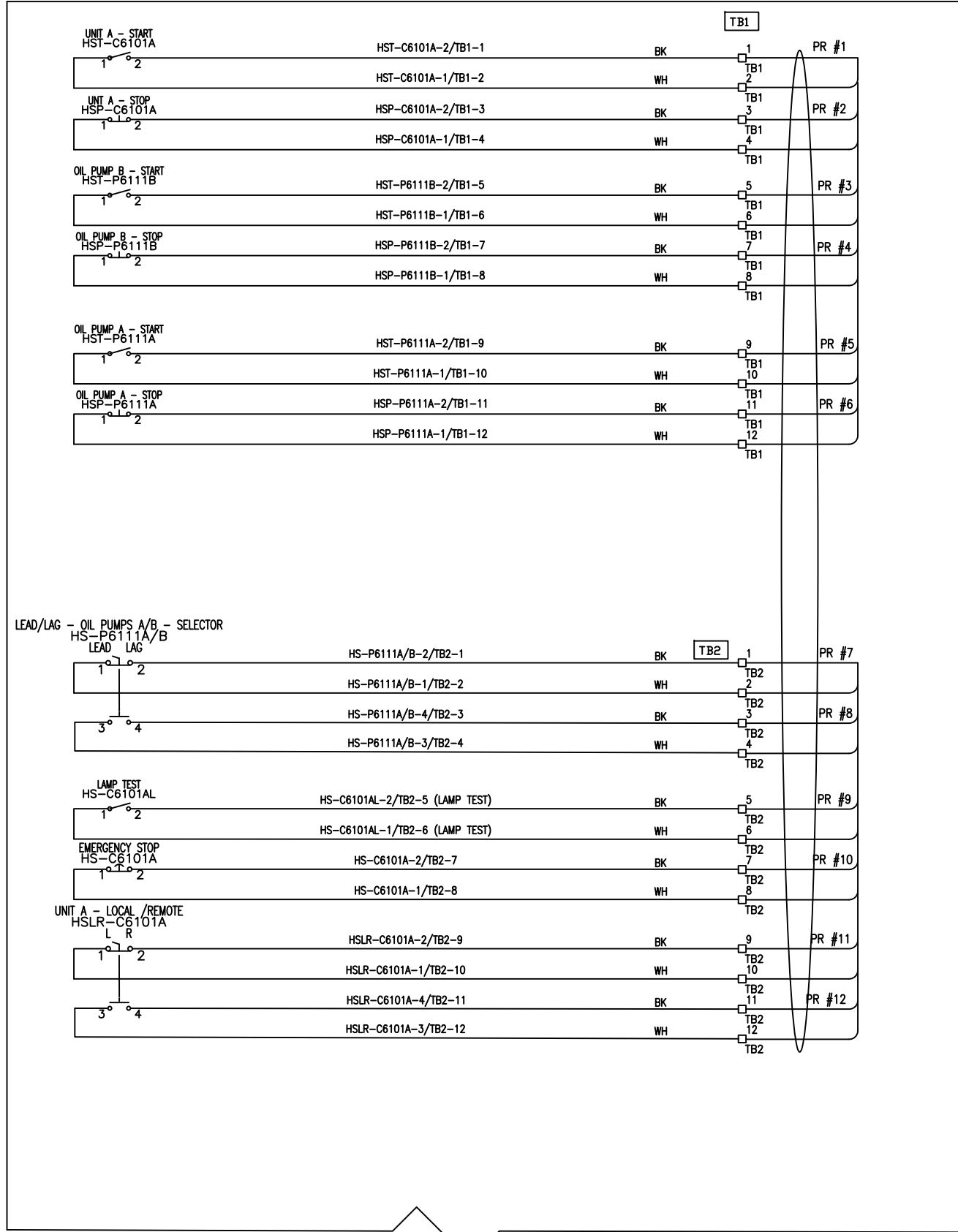
LCP and Junction Box Layout, Arrangement and Wiring Drawing for Refrigerator Package

Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
Code2	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
Code3	<input checked="" type="checkbox"/> Commented Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process.
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No code	<input type="checkbox"/> No Code (Applicable Only for "For Information" Documents and "As Built DWGs") Document has been submitted for PURCHASER's Information (FI). Consistency, completeness and correctness of document content is in Vendor/Sub-Contractor's responsibility.
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 EIED Energy Industries Engineering & Design co.	Date: Feb.23, 2026 Dept.: MA Signature: F.Hamooni

01	15-Feb-26	IFR	A.M	F.T	A.M
00	14-Jan-26	IFR	A.M	F.T	A.M
Rev.	DATE	PURPOSE OF ISSUE	PREPARED	CHECKED	APPROVED

IN-01. JB wiring of motors for RTD cables which are connected to UCP shall be added to this document.

LCP-6101A



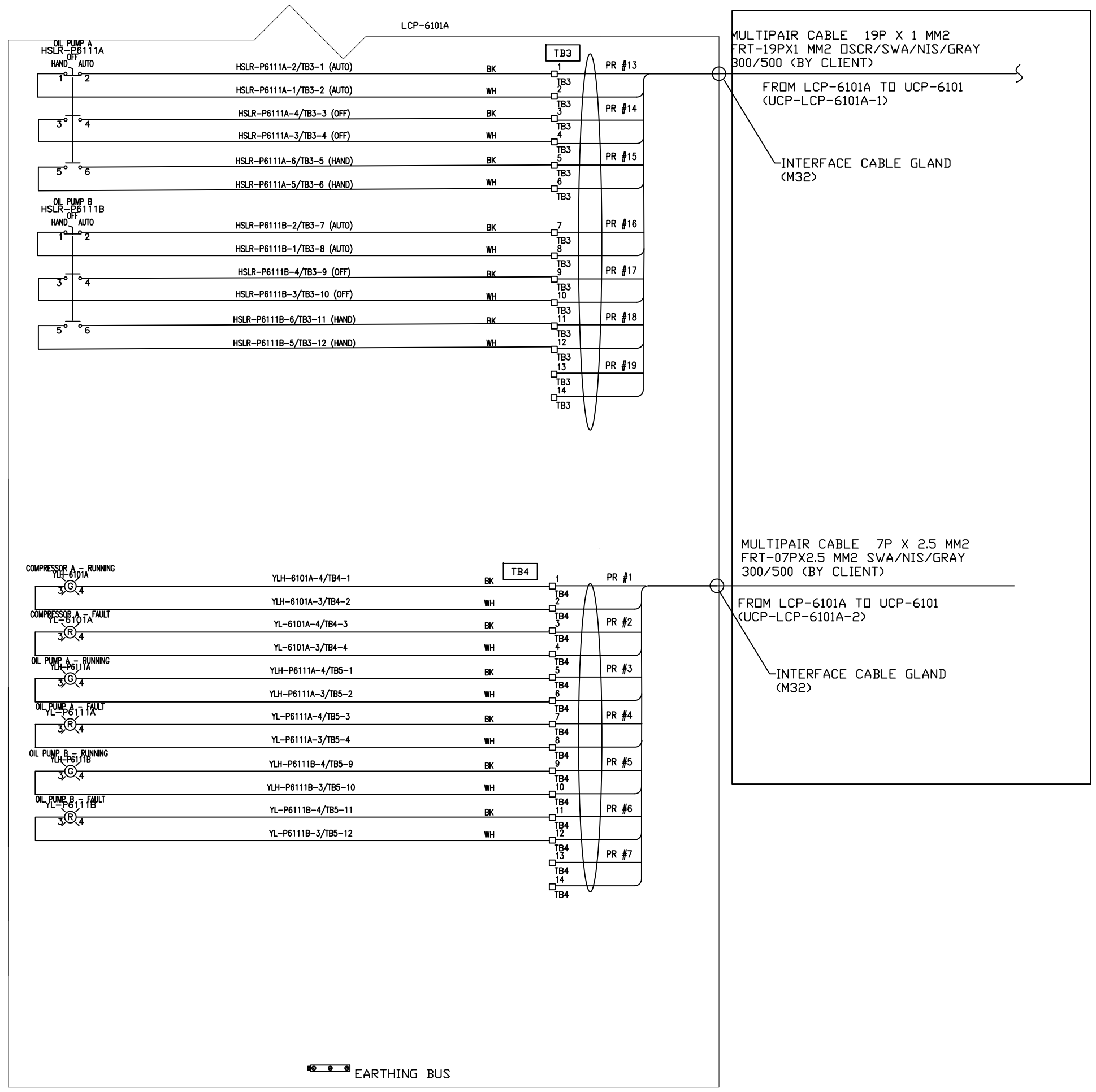
Be note that RTD for winding & Bearing shall be connected to UCP, so all I/O & Related cable shall be considered for connection in this document or related document.

NOTE

- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
- AC SUPPLY PHASE: BLACK, WHITE, NEUTRAL, GREEN OR GREEN W/YELLOW TRACER.
- DC SUPPLY POSITIVE: RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN.
- DC SUPPLY NEGATIVE: BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN.
- SIGNAL PAIR POSITIVE: BLACK, NEGATIVE: WHITE.
- SINGLE TRIAD POSITIVE: BLACK, NEGATIVE: WHITE, THIRD WIRE: RED.
- THERMOCPL POSITIVE: PER ANSI MC96.1, NEGATIVE: PER ANSI MC96.1.
- IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
- SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION.
- DEVICES ARE EX(d) RATED.
- LOCAL PANEL IS EX(e), IIB, T3, IP65 RATED AND MATERIAL IS SS 316 OR ALUMINUM.
- MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
- DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM.
- ENCLOSURE THICKNESS: 1.5 MM.

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Code3	<input type="checkbox"/> Commented Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be released under the status of "to be reviewed". All corrected documents shall be resubmitted before starting the manufacturing process.				
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DEPT: _____					
Signature: _____					
CV	PI	EL	IR	ME	MA
BT	BU	PR	SA	SV	TL

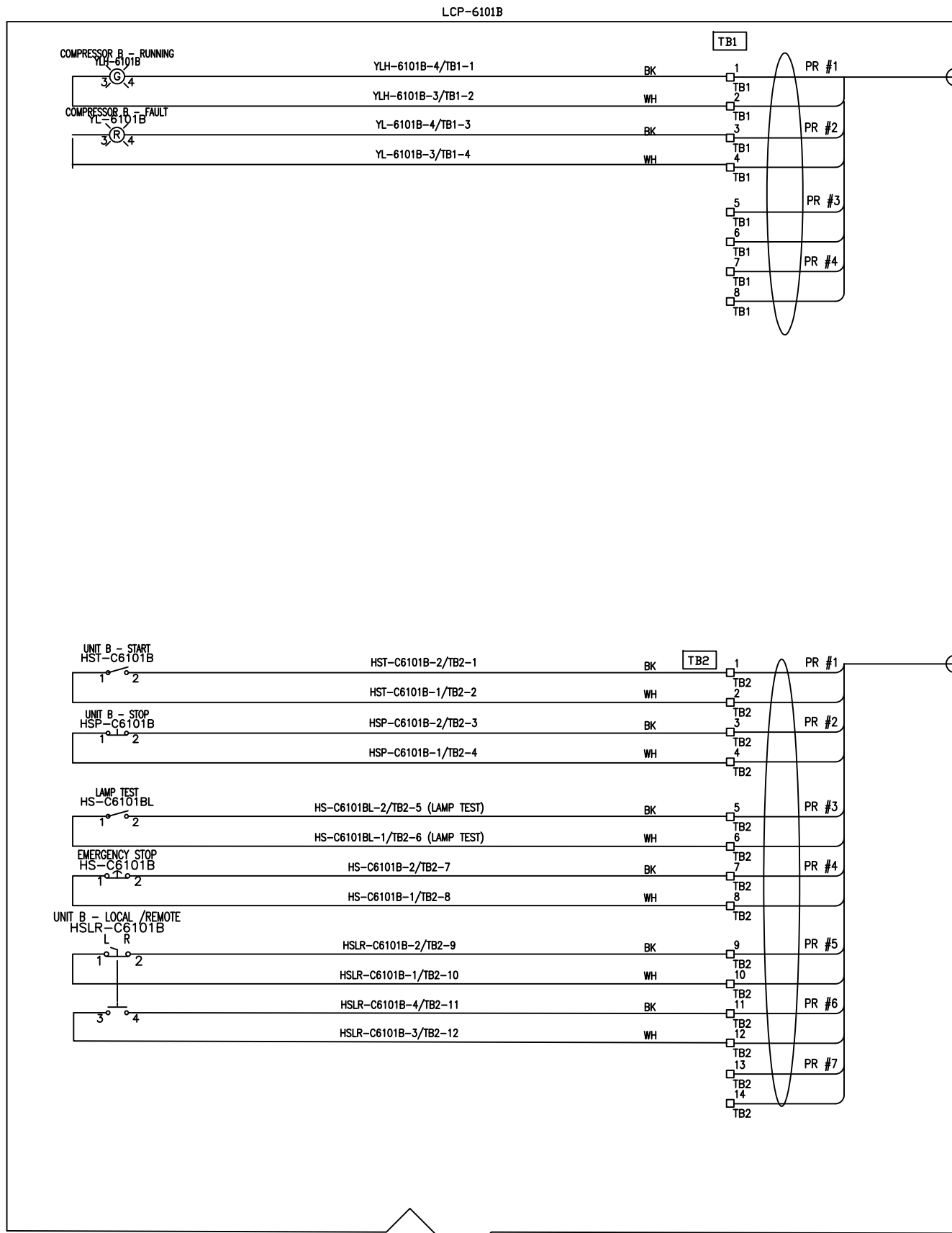
01	15.Feb.26	IFR	R.G	F.T	AM
00	14.Jan.26	IFR	R.G	F.T	AM
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
		Gachsaran Polymer Industries Company HDPE Plant			
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: LCP and Junction Box Layout, Arrangement and Wiring Drawing					
DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO.	SIZE
				01	3 OF 14 A3



- NOTE
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 - AC SUPPLY PHASE: BLACK, WHITE, GREEN OR W/YELLOW TRACER; NEUTRAL: GREEN; GROUND: GREEN.
 - DC SUPPLY POSITIVE: RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN; NEGATIVE: BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN.
 - SIGNAL PAIR POSITIVE: BLACK; NEGATIVE: WHITE.
 - SINGLE TRIAD POSITIVE: BLACK; NEGATIVE: WHITE; THIRD WIRE: RED.
 - THERMOCPL POSITIVE: PER ANSI MC96.1; NEGATIVE: PER ANSI MC96.1.
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SIGNATURE: _____					
CV	PI	EL	IR	ME	QA
BT	BU	PR	SA	SV	TL

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DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO.	SIZE
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MULTIPAIR CABLE 4P X 2.5 MM2
FRT-04PX2.5 MM2 SWA/NIA/GRAY
300/500 (BY CLIENT)

FROM LCP-6101B TO UCP-6101
(UCP-LCP-6101B-2)

INTERFACE CABLE GLAND
(M32)

MULTIPAIR CABLE 7P X 1 MM2
FRT-07PX1MM2 SWA/NIS/GRAY
300/500 (BY CLIENT)

FROM LCP-6101B TO UCP-6101
(UCP-LCP-6101B-1)

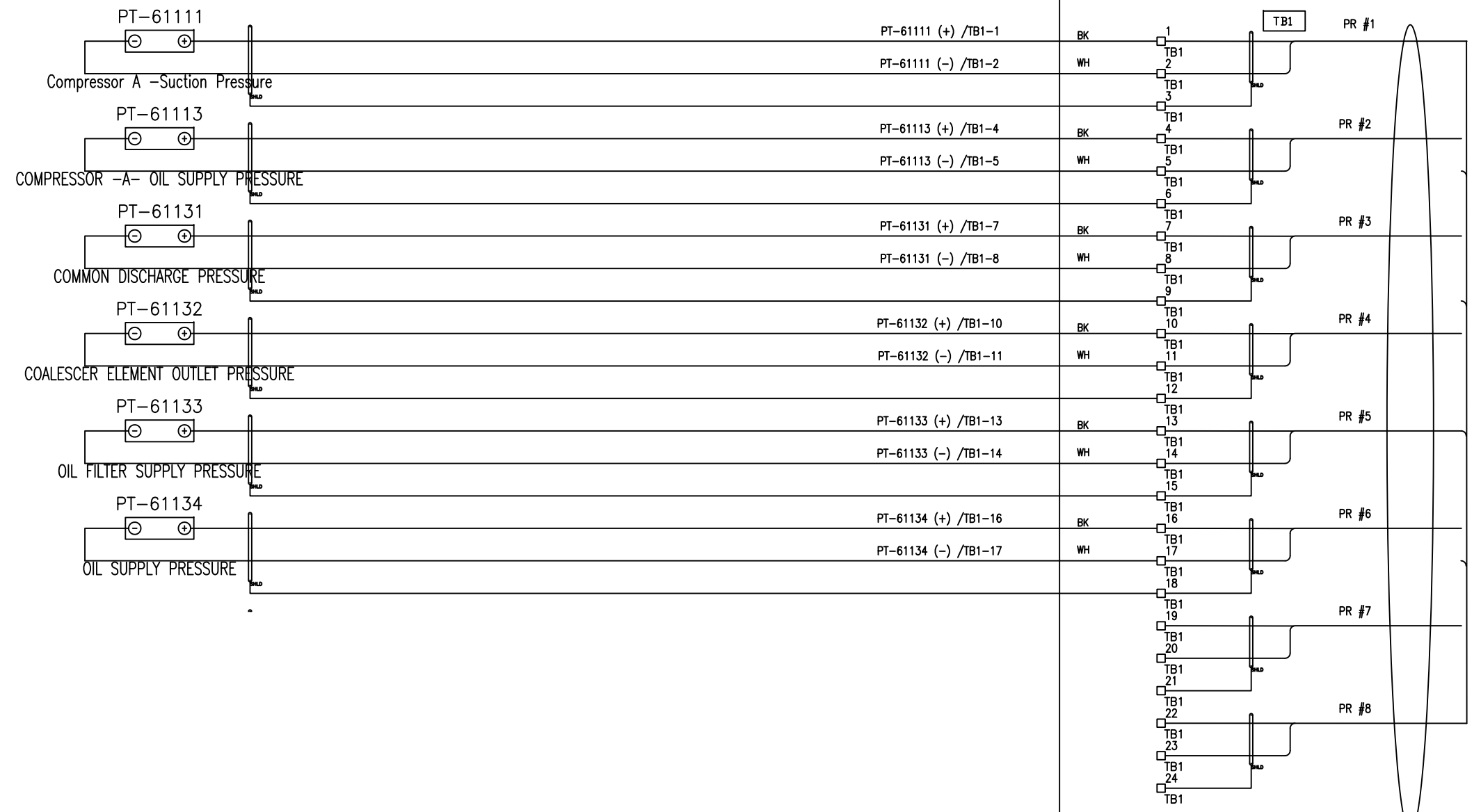
INTERFACE CABLE GLAND
(M25)

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 - SIGNAL PAIR POSITIVE: BLACK, NEGATIVE: WHITE. SINGLE TRIAD POSITIVE: BLACK, NEGATIVE: WHITE, THIRD WIRE: RED. THERMOCP: POSITIVE: PER ANSI MC96.1, NEGATIVE: PER ANSI MC96.1.
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 - ENCLOSURE THICKNESS: 1.5 MM.

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DEPT: _____					
Signature: _____					
CV	PI	EL	SH	ME	SA
BT	BU	PR	QA	INV	TL

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00	14.Jan.26	IFR	R.G	F.T	AM
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved
		Gachsan Polymer Industries Company HDPE Plant			
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: LCP and Junction Box Layout, Arrangement and Wiring Drawing					
DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO. SIZE 01 5 OF 14 A3	

JB-UJA-611



NOTE

JUNCTION BOX SPECIFICATION:

- EX PROTECTION : II 2G Ex e IIB T3
- INGRESS PROTECTION : IP65
- AMBIENT TEMP. CONDITION : -20 ... +55 °C
- ENCLOSURE MATERIAL : STAINLESS STEEL 316
- TB Type : 2.5mm2/BLOCK
- INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)
- OPERATING VOLTAGE : <= 30V
- OPERATING CURRENT (TOTAL) : <= 6A
- EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2
- BREATHER/DRAIN : Stainless steel
- STOPPING PLUG : Nickel plated brass
- CABLE GLAND : Nickel plated brass
- EARTH BOLT : M8
- ENCLOSURE THICKNESS : 1.5 MM

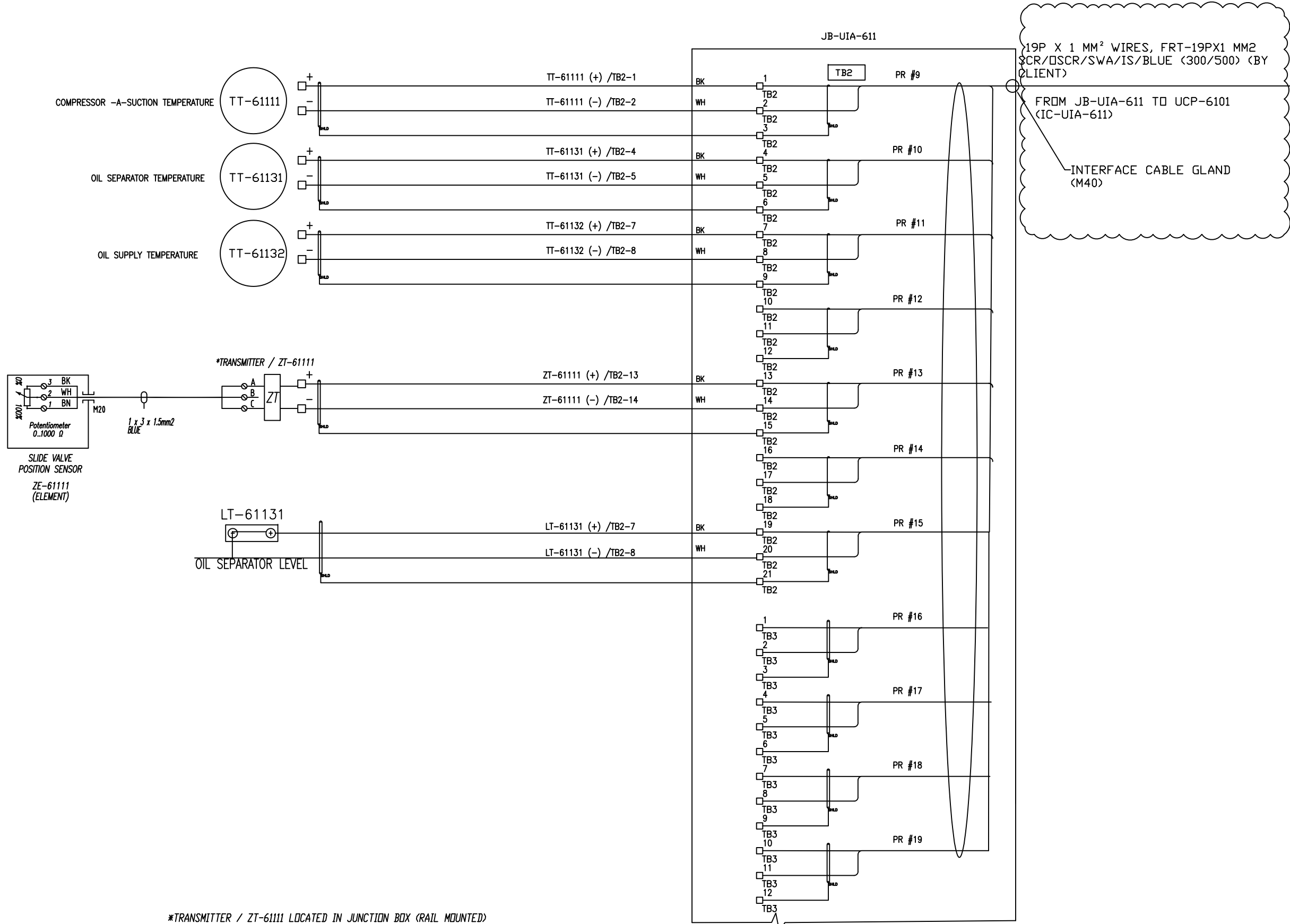
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DATE :
DEPT :
Signature :

CV	PI	EL	SH	ME	SA
BT	BU	PR	SA	HY	TL

01	15.Feb.26	IFR	R.G	F.T	AM
00	14.Jan.26	IFR	R.G	F.T	AM
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
			Gachsaran Polymer Industries Company HDPE Plant		
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: LCP and Junction Box Layout, Arrangement and Wiring Drawing					
DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO. SIZE 01 6 OF 14 A3	



NOTE

JUNCTION BOX SPECIFICATION:

EX PROTECTION : IP 26 Ex e IIB T3

INGRESS PROTECTION : IP65

AMBIENT TEMP. CONDITION : -20 ... +55 °C

ENCLOSURE MATERIAL : STAINLESS STEEL 316

TB Type : 2.5mm2/BLUE

INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)

OPERATING VOLTAGE : <= 30V

OPERATING CURRENT (TOTAL) : <= 6A

EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2

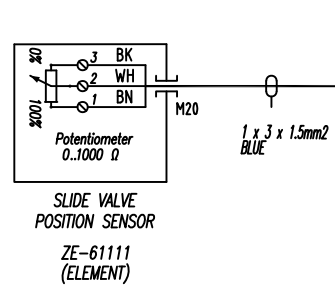
BREATHER/DRAIN : Stainless steel

STOPPING PLUG : Nickel plated brass

CABLE GLAND : Nickel plated brass

EARTH BOLT : M8

ENCLOSURE THICKNESS : 1.5 MM



*TRANSMITTER / ZT-61111 LOCATED IN JUNCTION BOX (RAIL MOUNTED)

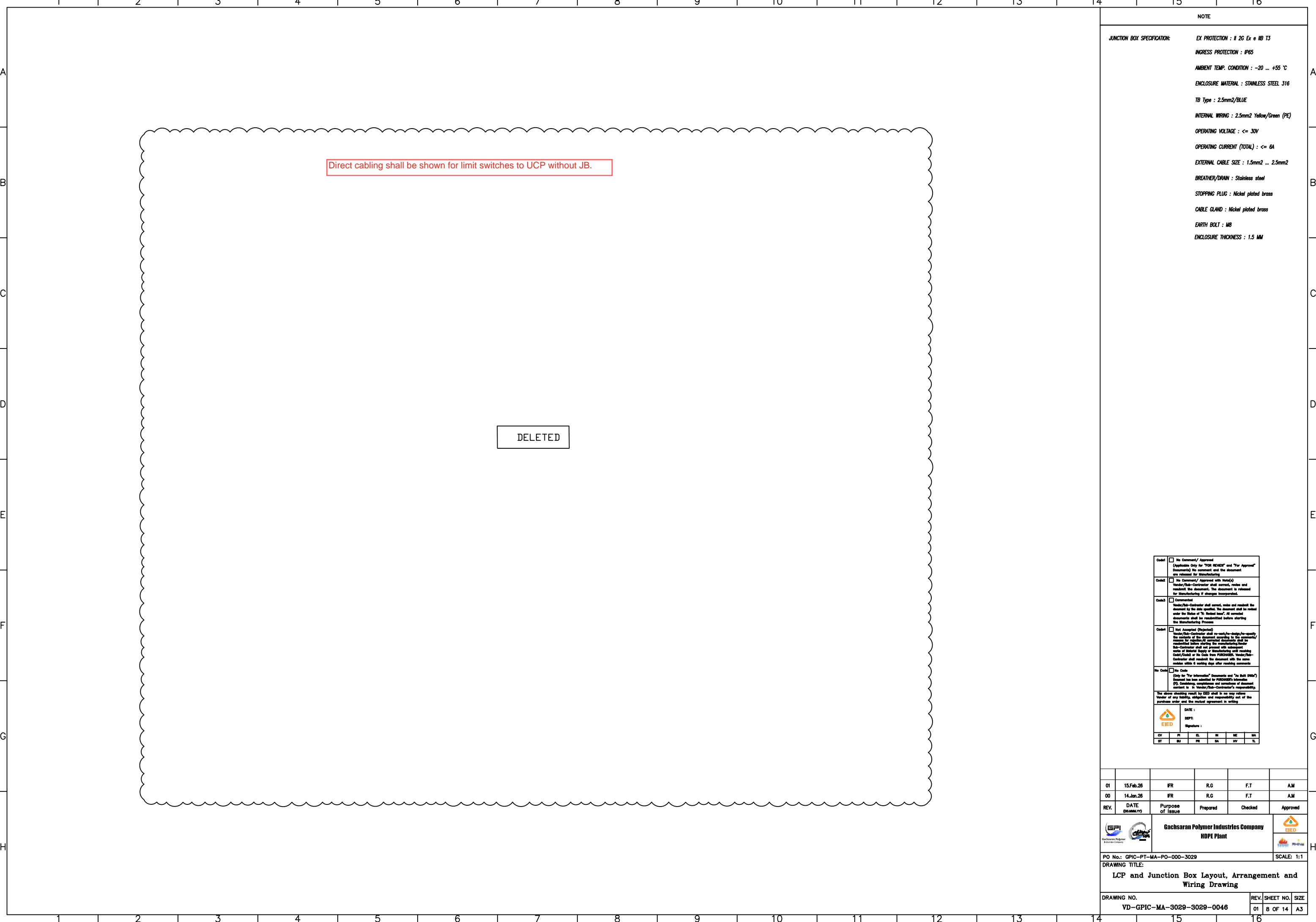
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 DEPT :
 Signature :

CV	PI	EL	SH	ME	SA
BT	BU	PR	SA	HY	TL

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PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: LCP and Junction Box Layout, Arrangement and Wiring Drawing					
DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO. SIZE 01 7 OF 14 A3	




Direct cabling shall be shown for limit switches to UCP without JB.




DELETED

NOTE

JUNCTION BOX SPECIFICATION:

- EX PROTECTION : I 2G Ex e IIB T3
- INGRESS PROTECTION : IP65
- AMBIENT TEMP. CONDITION : -20 ... +55 °C
- ENCLOSURE MATERIAL : STAINLESS STEEL 316
- TB Type : 2.5mm2/BLUE
- INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)
- OPERATING VOLTAGE : <= 30V
- OPERATING CURRENT (TOTAL) : <= 6A
- EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2
- BREATHER/DRAIN : Stainless steel
- STOPPING PLUG : Nickel plated brass
- CABLE GLAND : Nickel plated brass
- EARTH BOLT : M8
- ENCLOSURE THICKNESS : 1.5 MM

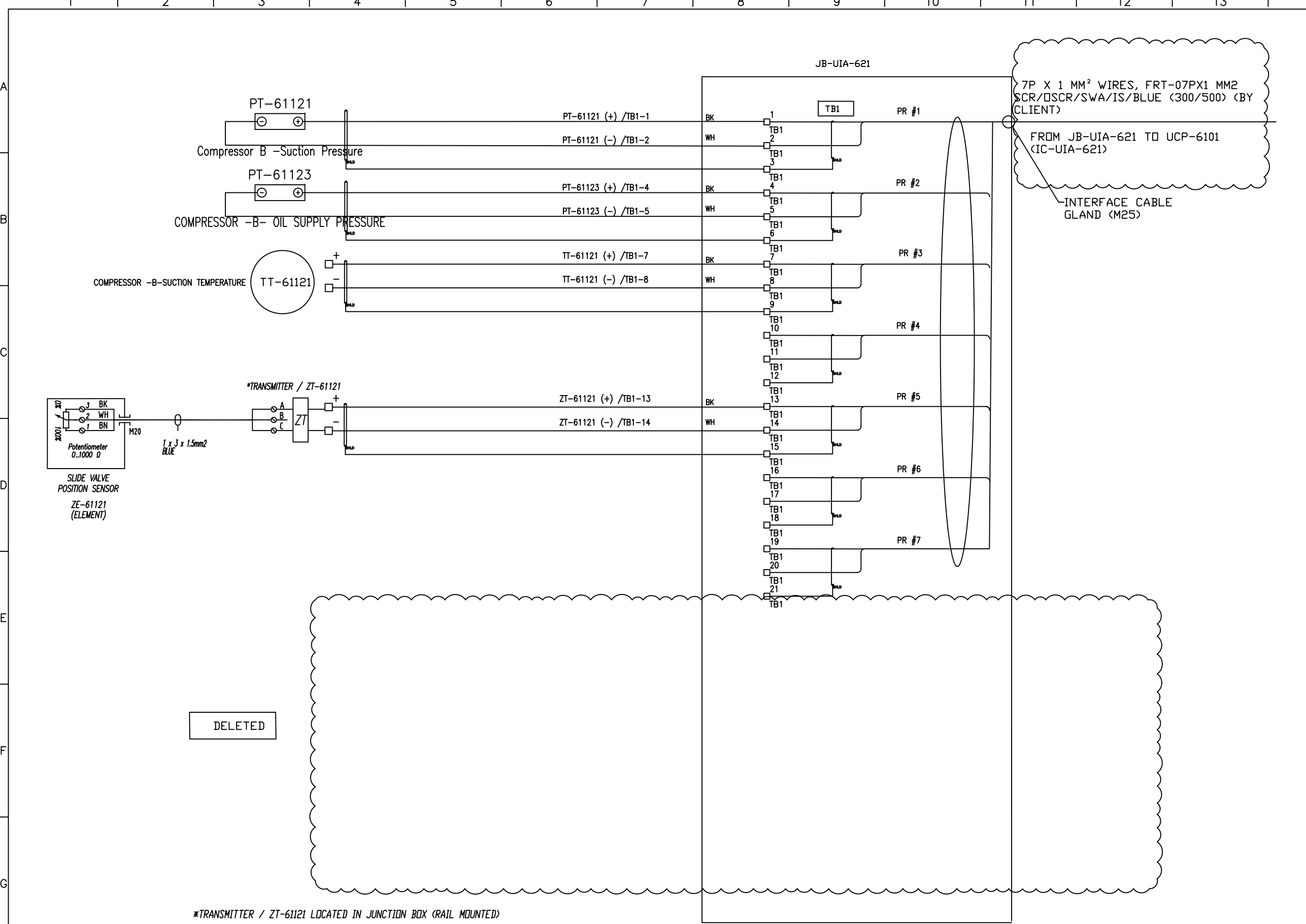
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SIGNATURE : _____					
CV	PI	EL	IN	ME	MA
BT	BU	PR	SA	HV	TL

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PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:
LCP and Junction Box Layout, Arrangement and Wiring Drawing

DRAWING NO. VD-GPIC-MA-3029-3029-0046	REV. SHEET NO. SIZE 01 8 OF 14 A3
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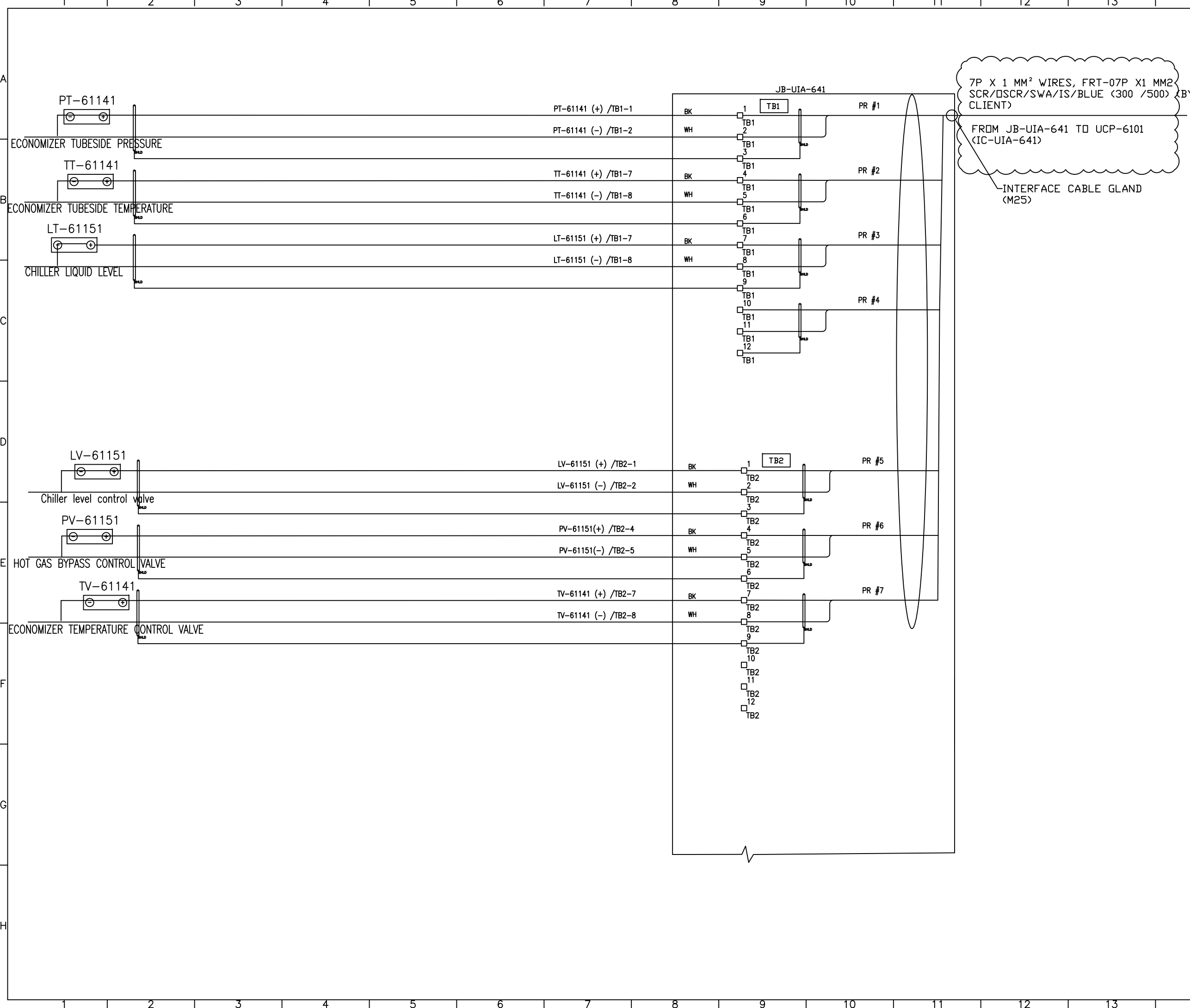
NOTE

JUNCTION BOX SPECIFICATION:

EX PROTECTION : IP 26 Ex e IIB T3
 INGRESS PROTECTION : IP65
 AMBIENT TEMP. CONDITION : -20 ... +55 °C
 ENCLOSURE MATERIAL : STAINLESS STEEL 316
 TB Type : 2.5mm2/BLUE
 INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)
 OPERATING VOLTAGE : <= 30V
 OPERATING CURRENT (TOTAL) : <= 6A
 EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2
 BREATHER/DRAIN : Stainless steel
 STOPPING PLUG : Nickel plated brass
 CABLE GLAND : Nickel plated brass
 EARTH BOLT : M8
 ENCLOSURE THICKNESS : 1.5 MM

*TRANSMITTER / ZT-61121 LOCATED IN JUNCTION BOX (RAIL MOUNTED)

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				SIZE A3	



NOTE

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No Code	<input type="checkbox"/> No Code (Only for "For Information" documents and "No Bill Entry" document but not suitable for PURCHASER's release) PV: Containing, completeness and correctness of document, contact is to Vendor/Sub-Contractor's responsibility.

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DATE :
DEPT :
Signature :

CV	PI	EL	SH	ME	SA
BT	BU	PR	SA	SV	TL

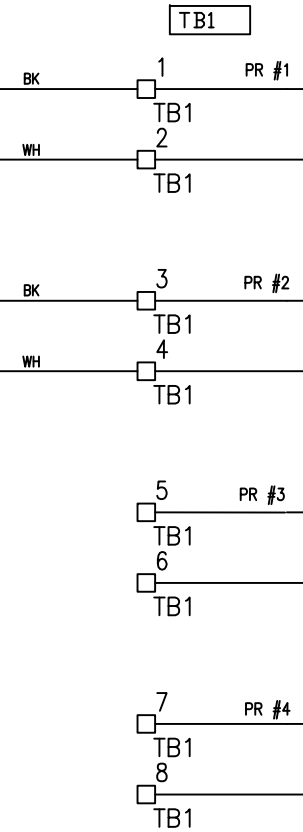
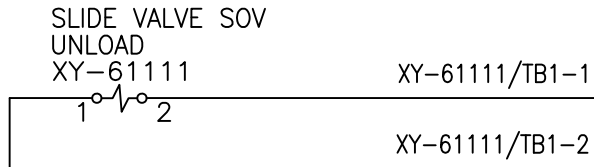
01	15.Feb.26	IFR	R.G	F.T	AM
00	14.Jan.26	IFR	R.G	F.T	AM
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved

PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:
LCP and Junction Box Layout, Arrangement and Wiring Drawing

DRAWING NO.	REV.	SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	01	10 OF 14	A3

JB-UEV-612



4P X 2.5 MM² WIRES, FRT-04PX2.5 MM² SWA/NIS/GRAY (300 /500) (BY CLIENT)

FROM JB-UEV-612 TO UCP-6101 (IC-UEV-612)

INTERFACE CABLE GLAND (M32)

NOTE

JUNCTION BOX SPECIFICATION:

EX PROTECTION : IP 2G Ex e IIB T3

INGRESS PROTECTION : IP65

AMBIENT TEMP. CONDITION : -20 ... +55 °C

ENCLOSURE MATERIAL : STAINLESS STEEL 316

TB Type : 4mm²/GREY

INTERNAL WIRING : 2.5mm² Yellow/Green (PE)

OPERATING VOLTAGE : <= 30V

OPERATING CURRENT (TOTAL) : <= 6A

EXTERNAL CABLE SIZE : 1.5mm² ... 2.5mm²

BREATHER/DRAIN : Stainless steel

STOPPING PLUG : Nickel plated brass

CABLE GLAND : Nickel plated brass

EARTH BOLT : M8

ENCLOSURE THICKNESS : 1.5 MM




Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" documents) No comment and the document are released for manufacturing.
Code2	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for manufacturing if change is incorporated.
Code3	<input type="checkbox"/> Commented Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be released under the Status of "To Be Released". All commented documents shall be resubmitted before starting the manufacturing process.
Code4	<input type="checkbox"/> Not Accepted (Rejected) Vendor/Sub-Contractor shall re-work/re-design/re-specify the contents of the document according to the comments/ reasons for rejection. All corrected documents shall be resubmitted before starting the manufacturing process. Sub-Contractor shall not proceed with subsequent work of material supply or manufacturing until receiving Code1/Code2 or its Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 5 working days after receiving comments.
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DATE :
DEPT :
Signature :

CV	PI	EL	IN	ME	QA
BT	BU	PR	SA	SV	TL

01	15.Feb.26	IFR	R.G	F.T	A.M
00	14.Jan.26	IFR	R.G	F.T	A.M
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved

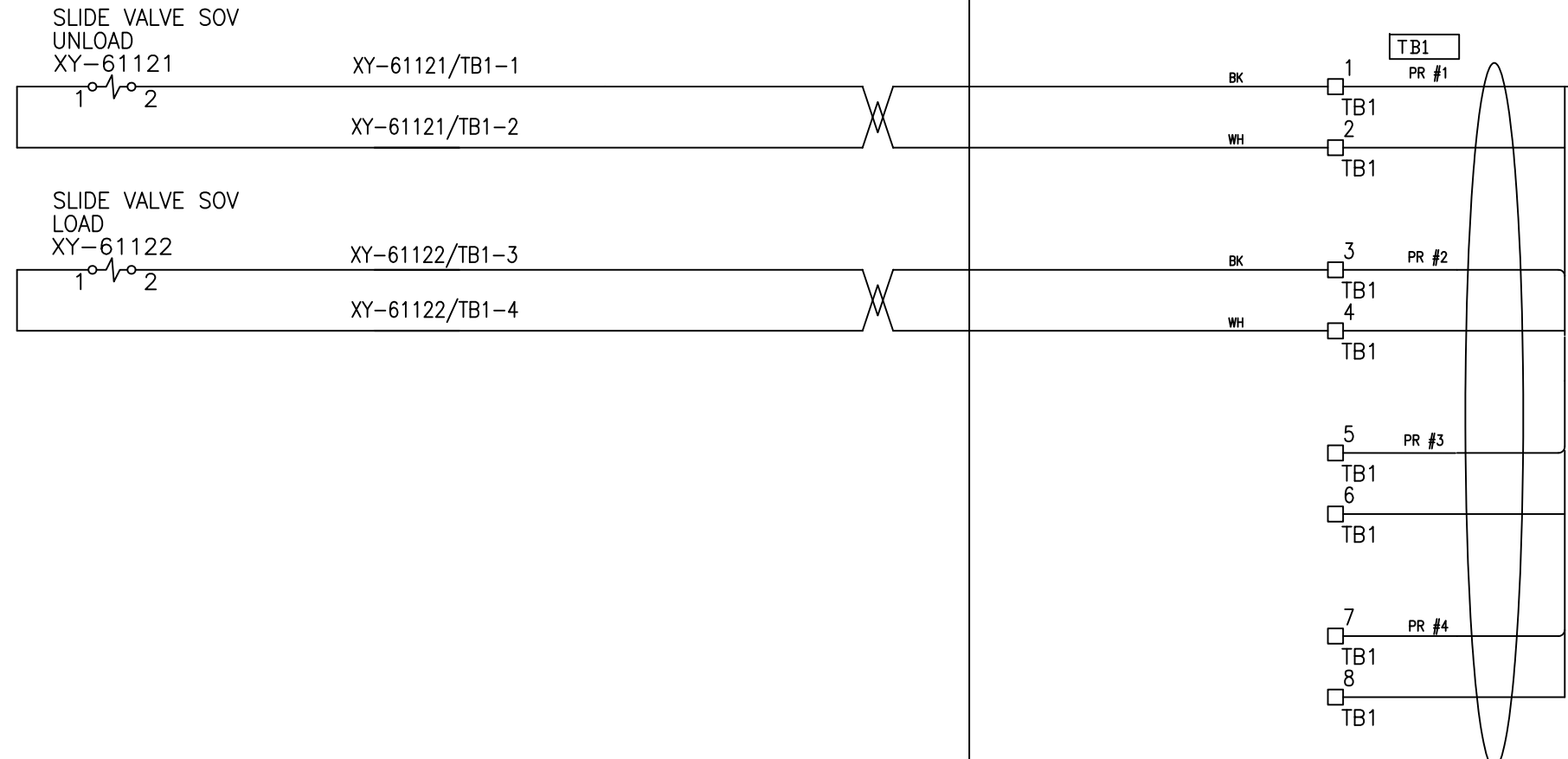


Gachsaran Polymer Industries Company
HDPE Plant


PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:
LCP and Junction Box Layout, Arrangement and Wiring Drawing

DRAWING NO.	REV.	SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	01	11 OF 14	A3

JB-UEV-622



4P X 2.5 MM² WIRES, FRT-04PX2.5 MM² SWA/NIS/GRAY (300 /500) (BY CLIENT)

FROM JB-UEV-622 TO UCP-6101 (IC-UEV-622)

INTERFACE CABLE GLAND (M32)

NOTE

JUNCTION BOX SPECIFICATION:

EX PROTECTION :	IP 2G Ex e IIB T3
INGRESS PROTECTION :	IP65
AMBIENT TEMP. CONDITION :	-20 ... +55 °C
ENCLOSURE MATERIAL :	STAINLESS STEEL 316
TB Type :	4mm2/GREY
INTERNAL WIRING :	2.5mm2 Yellow/Green (PE)
OPERATING VOLTAGE :	<= 30V
OPERATING CURRENT (TOTAL) :	<= 6A
EXTERNAL CABLE SIZE :	1.5mm2 ... 2.5mm2
BREATHER/DRAIN :	Stainless steel
STOPPING PLUG :	Nickel plated brass
CABLE GLAND :	Nickel plated brass
EARTH BOLT :	M8
ENCLOSURE THICKNESS :	1.5 MM

<input type="checkbox"/> No Comment/ Approved <small>(Applicable Only for "FOR REVIEW" and "For Approval" documents) No comment and the document are released for manufacturing.</small>
<input type="checkbox"/> No Comment/ Approved with Note(s) <small>Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for manufacturing if changes incorporated.</small>
<input type="checkbox"/> Commented <small>Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be marked under the Status of "To Be Rechecked". All commented documents shall be resubmitted before starting the manufacturing process.</small>
<input type="checkbox"/> Not Accepted (Rejected) <small>Vendor/Sub-Contractor shall re-work/re-design/re-specify the contents of the document according to the comments/ reasons for rejection. All corrected documents shall be resubmitted before starting the manufacturing process. Sub-Contractor shall not proceed with subsequent work of material supply or manufacturing until receiving Order/Quotation or its Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 5 working days after receiving comments.</small>
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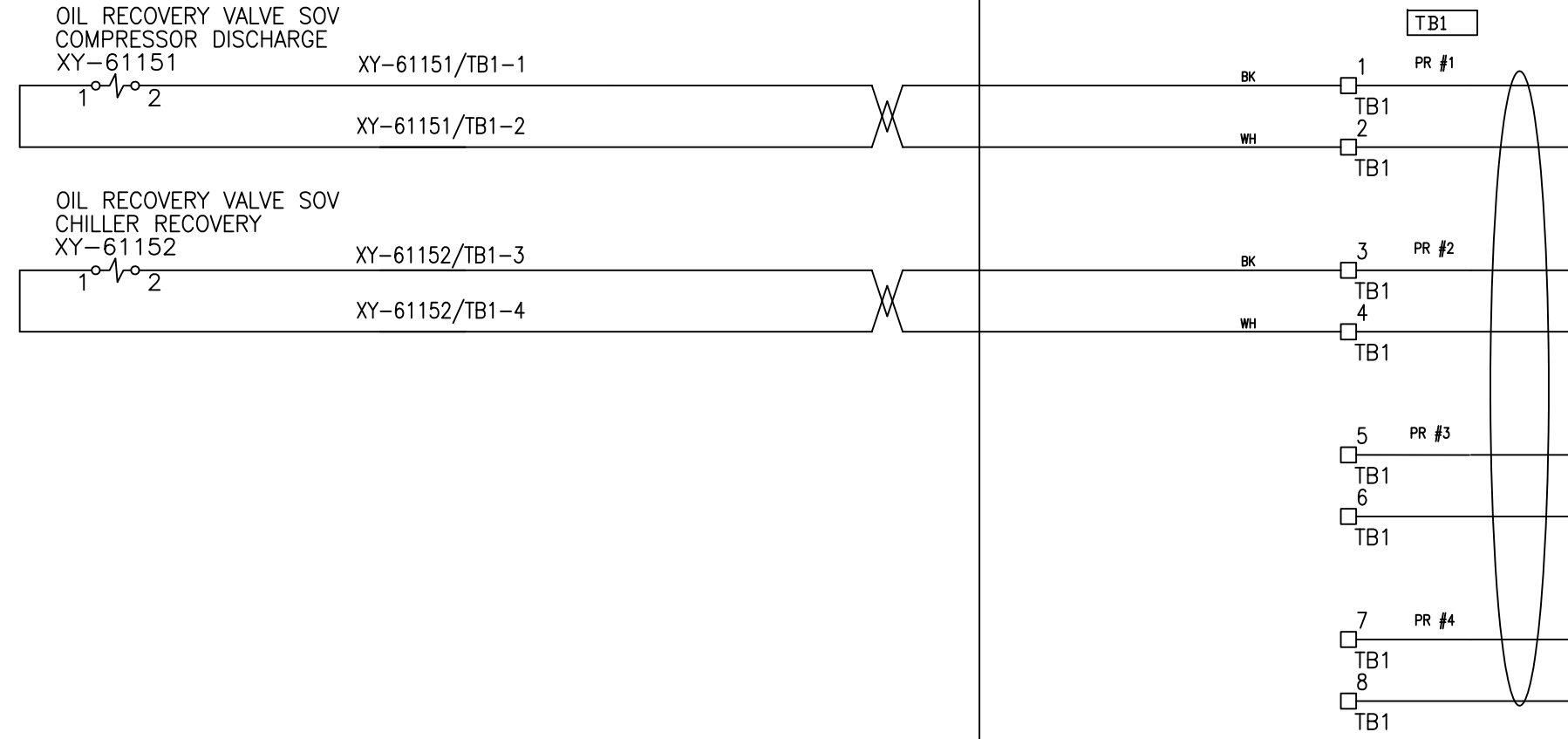
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DATE :
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 Signature :

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01	15.Feb.26	IFR	R.G	F.T	A.M
00	14.Jan.26	IFR	R.G	F.T	A.M
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
			Gachsaran Polymer Industries Company HDPE Plant		
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: LCP and Junction Box Layout, Arrangement and Wiring Drawing					
DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO. SIZE 01 12 OF 14 A3	

JB-UEV-652



4P X 2.5 MM² WIRES, FRT-04PX2.5 MM2 SWA/NIS/GRAY (300 /500) (BY CLIENT)

FROM JB-UEV-652 TO UCP-6101 (IC-UEV-652)

INTERFACE CABLE GLAND (M32)

NOTE

JUNCTION BOX SPECIFICATION:

- EX PROTECTION : II 2G Ex e IIB T3
- INGRESS PROTECTION : IP65
- AMBIENT TEMP. CONDITION : -20 ... +55 °C
- ENCLOSURE MATERIAL : STAINLESS STEEL 316
- TB Type : 4mm2/GREY
- INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)
- OPERATING VOLTAGE : <= 30V
- OPERATING CURRENT (TOTAL) : <= 6A
- EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2
- BREATHER/DRAIN : Stainless steel
- STOPPING PLUG : Nickel plated brass
- CABLE GLAND : Nickel plated brass
- EARTH BOLT : M8
- ENCLOSURE THICKNESS : 1.5 MM

Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" documents) No comment and the document are released for manufacturing.
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DATE :
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Signature :

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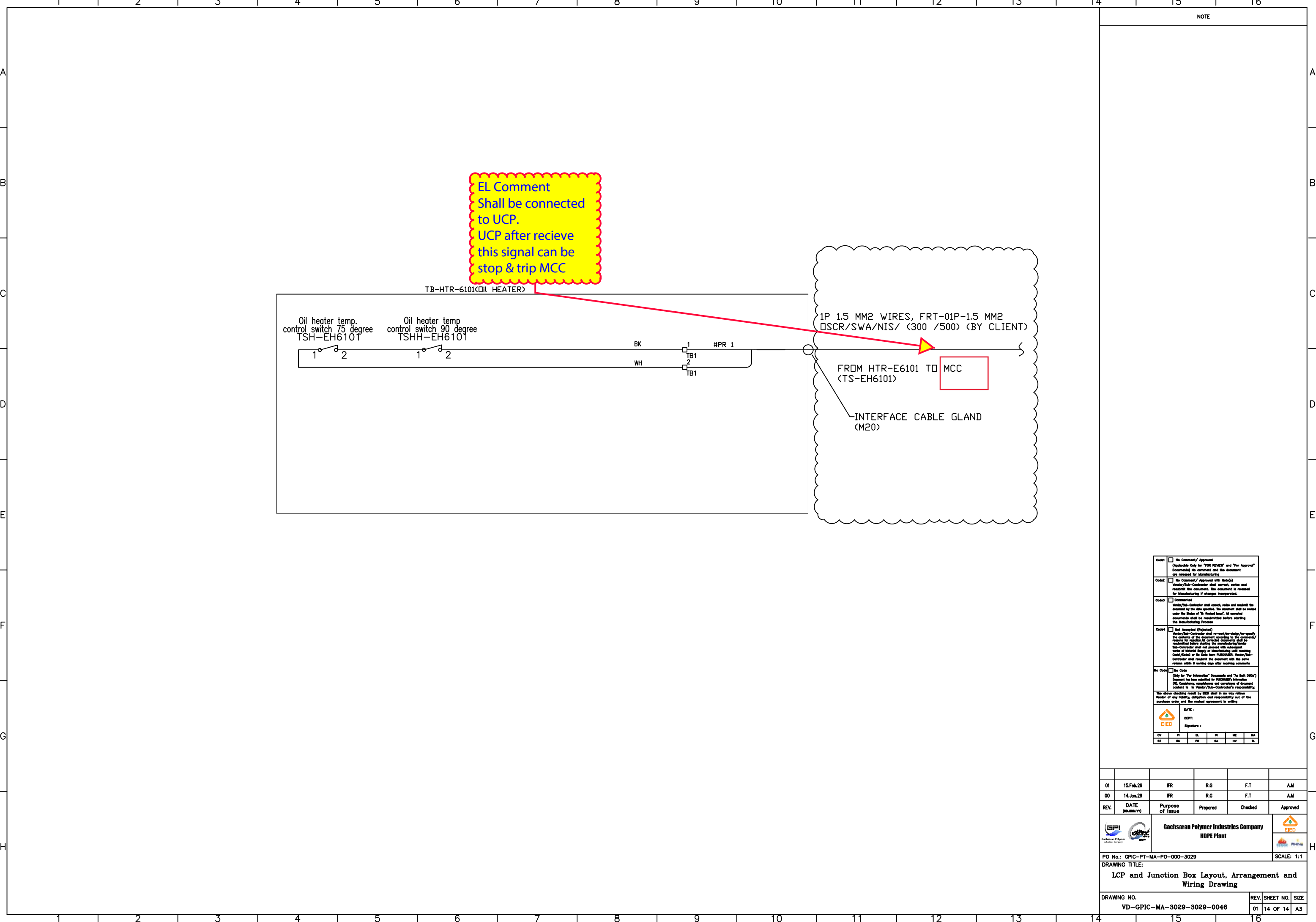
01	15.Feb.26	IFR	R.G	F.T	A.M
00	14.Jan.26	IFR	R.G	F.T	A.M
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved

Gachsaran Polymer Industries Company
HDPE Plant

PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:
LCP and Junction Box Layout, Arrangement and Wiring Drawing

DRAWING NO.	REV.	SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	01	13 OF 14	A3



EL Comment
 Shall be connected
 to UCP.
 UCP after receive
 this signal can be
 stop & trip MCC

1P 1.5 MM2 WIRES, FRT-01P-1.5 MM2
 (OSCR/SWA/NIS/ (300 /500) (BY CLIENT))

FROM HTR-E6101 TO MCC
 (TS-EH6101)

INTERFACE CABLE GLAND
 (M20)

NOTE

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REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
		Gachsan Polymer Industries Company HDPE Plant			
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: LCP and Junction Box Layout, Arrangement and Wiring Drawing					
DRAWING NO. VD-GPIC-MA-3029-3029-0046					REV. SHEET NO. SIZE 01 14 OF 14 A3