



	<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>		
	<b>Instruments Hookup Diagram and MTO</b>	 	
PO No.: GPIC-PT-MA-PO-000-3029	Document Number: VD-GPIC-MA-3029-3029-0051	Rev. 00	<b>Page 1 of 17</b>

## Instruments Hookup Diagram and MTO

<b>Code1</b>	<input type="checkbox"/> <b>No Comment/ Approved</b> (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
<b>Code2</b>	<input type="checkbox"/> <b>No Comment/ Approved with Note(s)</b> Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
<b>Code3</b>	<input checked="" type="checkbox"/> <b>Commented</b> 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.
<b>Code 4</b>	<input type="checkbox"/> <b>Not Accepted (Rejected )</b> 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. Vendor/Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments.
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Above checking results by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.	
 <b>EIED</b> Energy Industries Engineering & Design co.	<b>Date:</b> Dec.27, 2025 <b>Dept.:</b> MA <b>Signature:</b> F.Hamooni

00	9-Dec-25	IFI	DSH	F.T	A.M
<b>Rev.</b>	<b>DATE</b>	<b>PURPOSE OF ISSUE</b>	<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>

### Revision Index

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**Gachsaran Polymer Industries Company  
HDPE Plant  
Instruments Hookup Diagram and  
MTO**



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

Document Number: VD-GPIC-MA-3029-3029-0051

Rev.  
00

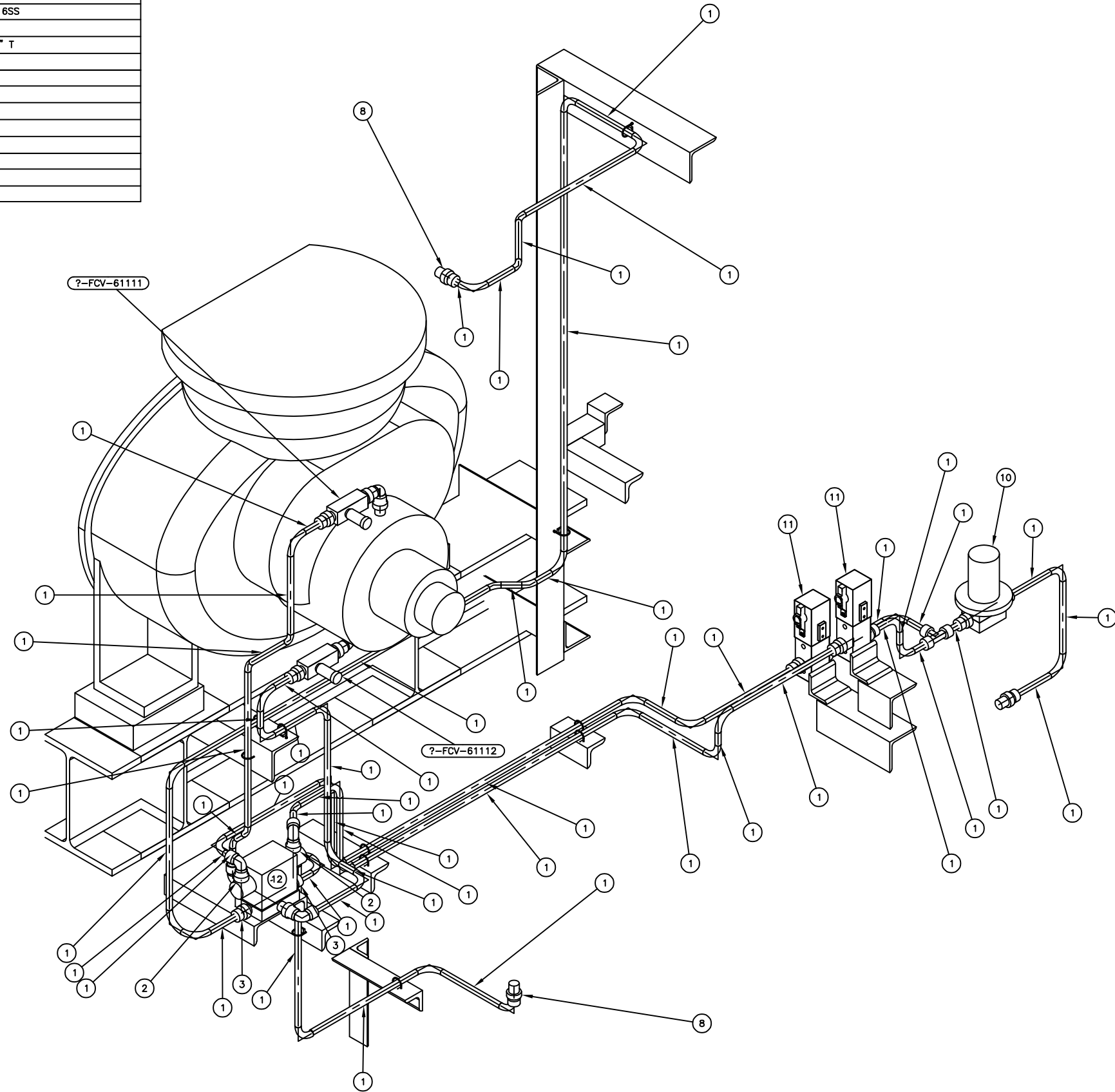
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IN-01. All items of hookup material in the next sheets shall be mentioned in the below table.



## MTO for Tube Fittings

Long Description (Family)	Compatible Standard	Size	Line Number Tag
PLUG, HEX HEAD, MPT, ASME B16.11	ASME B16.11	1/2"	PG-61131
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61111
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61111
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61113
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61113
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61121
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61121
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61123
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61123
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61131
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61131
PLUG, HEX HEAD, MPT, ASME B16.11	ASME B16.11	1/2"	PT-61132
PLUG, HEX HEAD, MPT, ASME B16.11	ASME B16.11	1/2"	PT-61132
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61133
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61134
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61141
PLUG, HEX HEAD, 1/2" NPT (M), ASME B16.11	ASME B16.11	1/2"	PT-61142

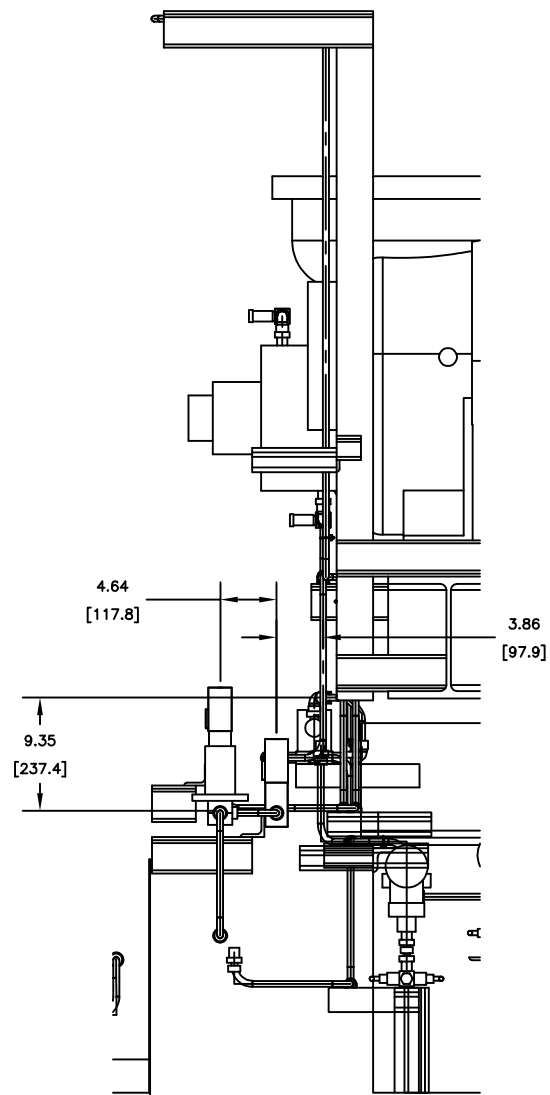
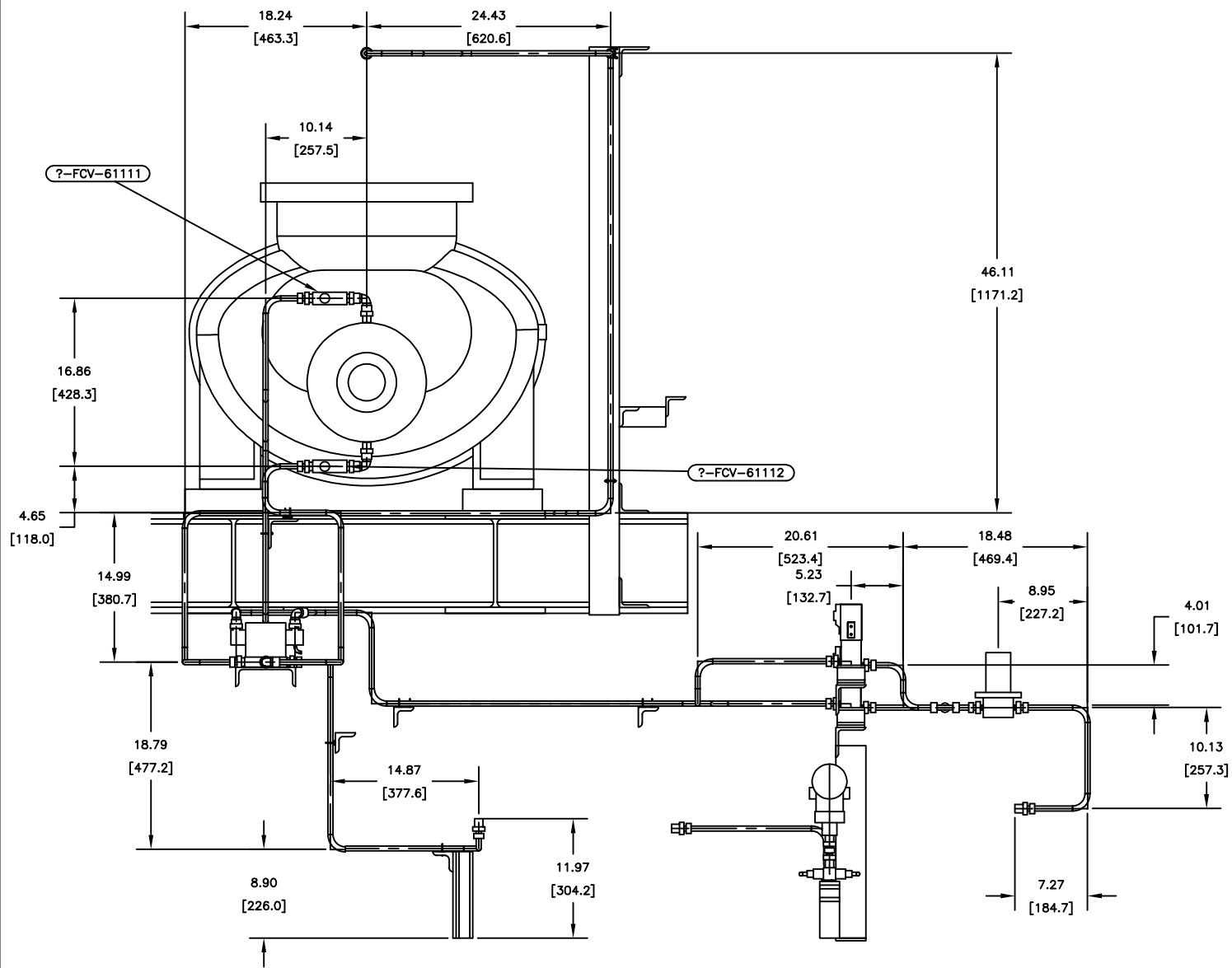
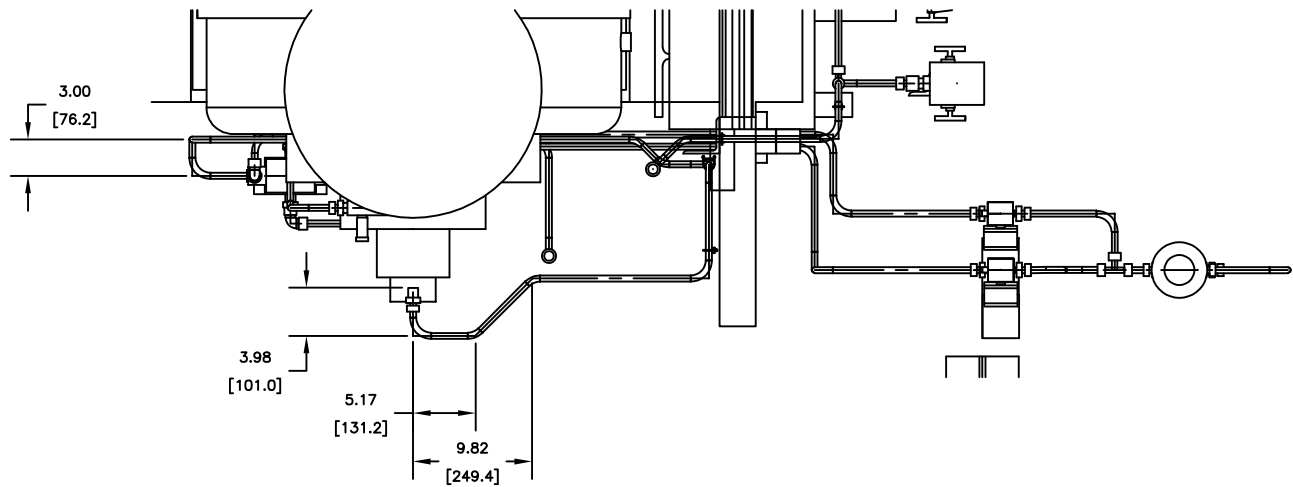
BILL OF MATERIALS		
PIPE		
ID	QTY	LONG DESCRIPTION (FAMILY)
1	31'-3 7/16"	TUBING, ASTM A269, SEAMLESS -- 316SS
FITTINGS		
ID	QTY	LONG DESCRIPTION (FAMILY)
2	2	STUB 1/4NPT(M) x 1/2"Tube
3	2	MaleConnector 1/2 NPT(M) x 1/2"Tube
4	1	BEND 90 5R, TUBING, ASTM A269, 316SS
5	33	BEND 90 5R, TUBING, ASTM A269, 316SS
6	9	BEND 45 5R, TUBING, ASTM A269, 316SS
7	2	Union ELB, Tubing, 1/4" to 1"
8	2	Male Connector 3/4" NPT(M) x 1/2" T
9	1	Union_TEE_1/4" to 1"
VALVES		
ID	QTY	LONG DESCRIPTION (FAMILY)
10	1	Regulator-1/4"
11	2	Solenoid, 1/4" to 1/2"
12	1	Direction Vale. 1/2"
PIPE SUPPORTS		
ID	QTY	LONG DESCRIPTION (FAMILY)
13	11	U-clamp



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DATE :					
DEPT :					
Signature :					
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REV.	DATE (DD/MMA/YY)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsan Polymer Industries Company</b> <b>HDPE Plant</b>			
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0051				REV. SHEET NO. SIZE 00 4 of 17 A3	

IN-02. Table of MTO is missing in this sheet.



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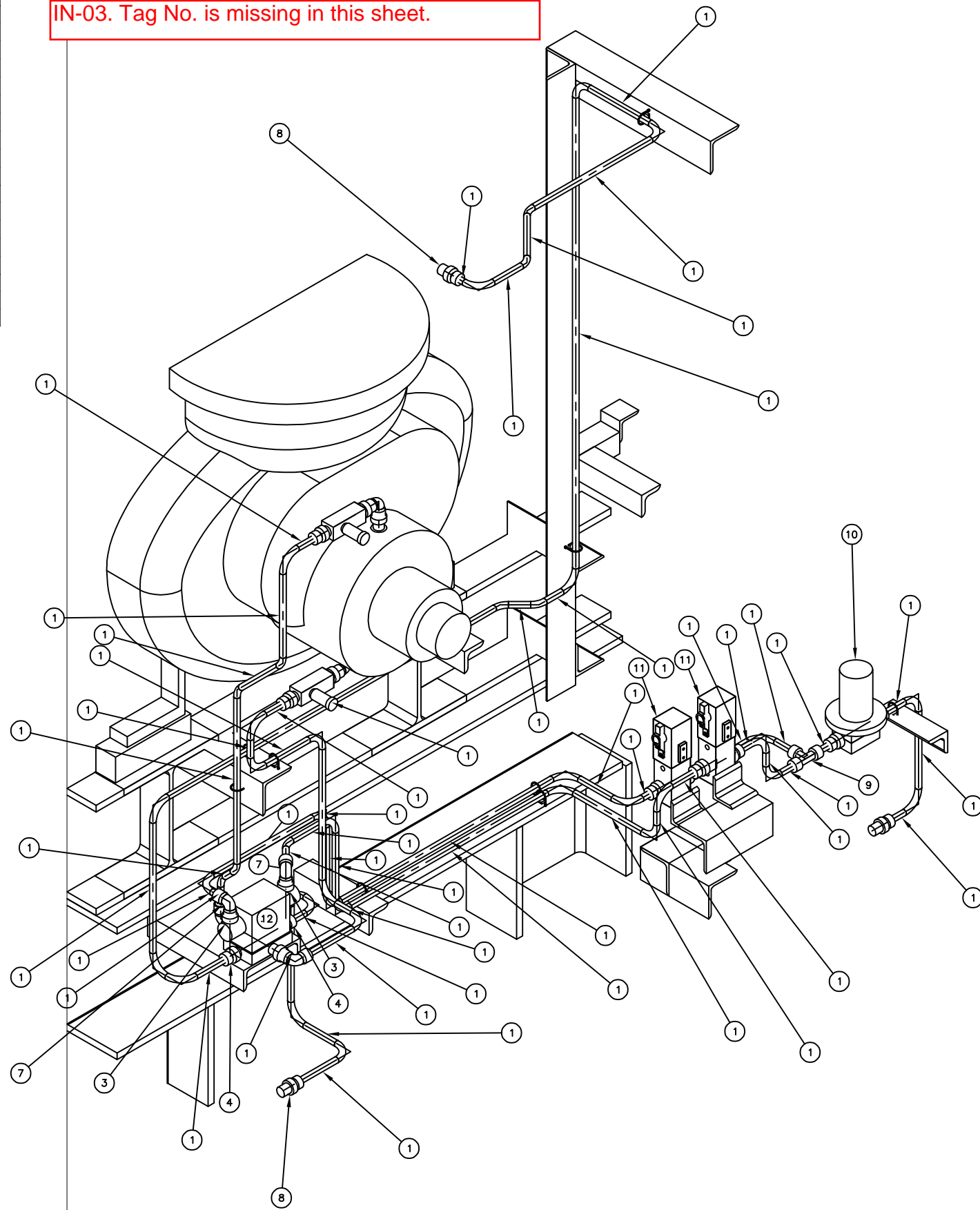
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Signature :

CV	PI	EL	IN	ME	MA
ST	BU	PR	SA	HV	TL

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DRAWING NO. VD-GPIC-MA-3029-3029-0051		REV.	SHEET NO.	SIZE	
		00	5 of 17	A3	

BILL OF MATERIALS		
PIPE		
ID	QTY	LONG DESCRIPTION (FAMILY)
1	26'-5 3/16"	TUBING, ASTM A269, SEAMLESS -- 316SS
FITTINGS		
ID	QTY	LONG DESCRIPTION (FAMILY)
2	1	Male Connector, 316SS, NPT(M) x Tube
3	2	MaleStub 1/4" NPT(M) x 1/2" Tube
4	2	Male Connector 1/2" NPT(M) x 1/2" T
5	32	BEND 90 5R, TUBING, ASTM A269, 316SS
6	9	BEND 45 5R, TUBING, ASTM A269, 316SS
7	2	Union ELB, Tubing, 1/4" to 1"
8	2	Male Connector 3/4" NPT(M) x 1/2" T
9	1	Union_TEE_1/4" to 1"
VALVES		
ID	QTY	LONG DESCRIPTION (FAMILY)
10	1	Regulator-1/4" NPT(F)
11	2	Solenoid, 1/4" NPT(F)
12	1	Direction Vale. 1/2"
PIPE SUPPORTS		
ID	QTY	LONG DESCRIPTION (FAMILY)
13	10	U-clamp

IN-03. Tag No. is missing in this sheet.



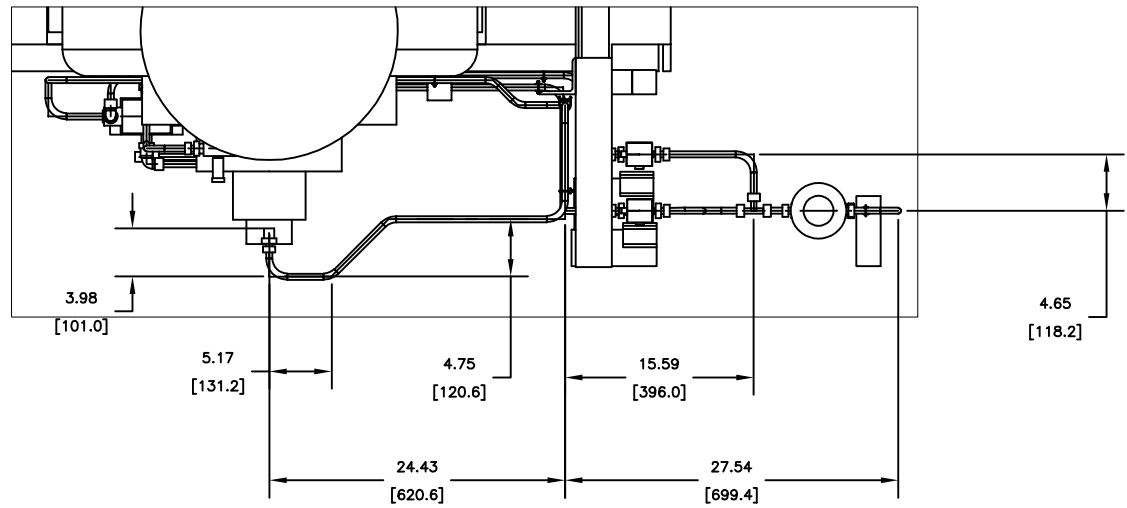
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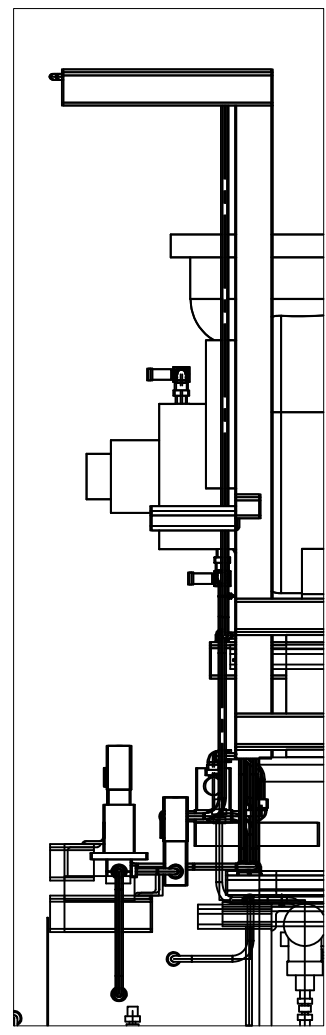
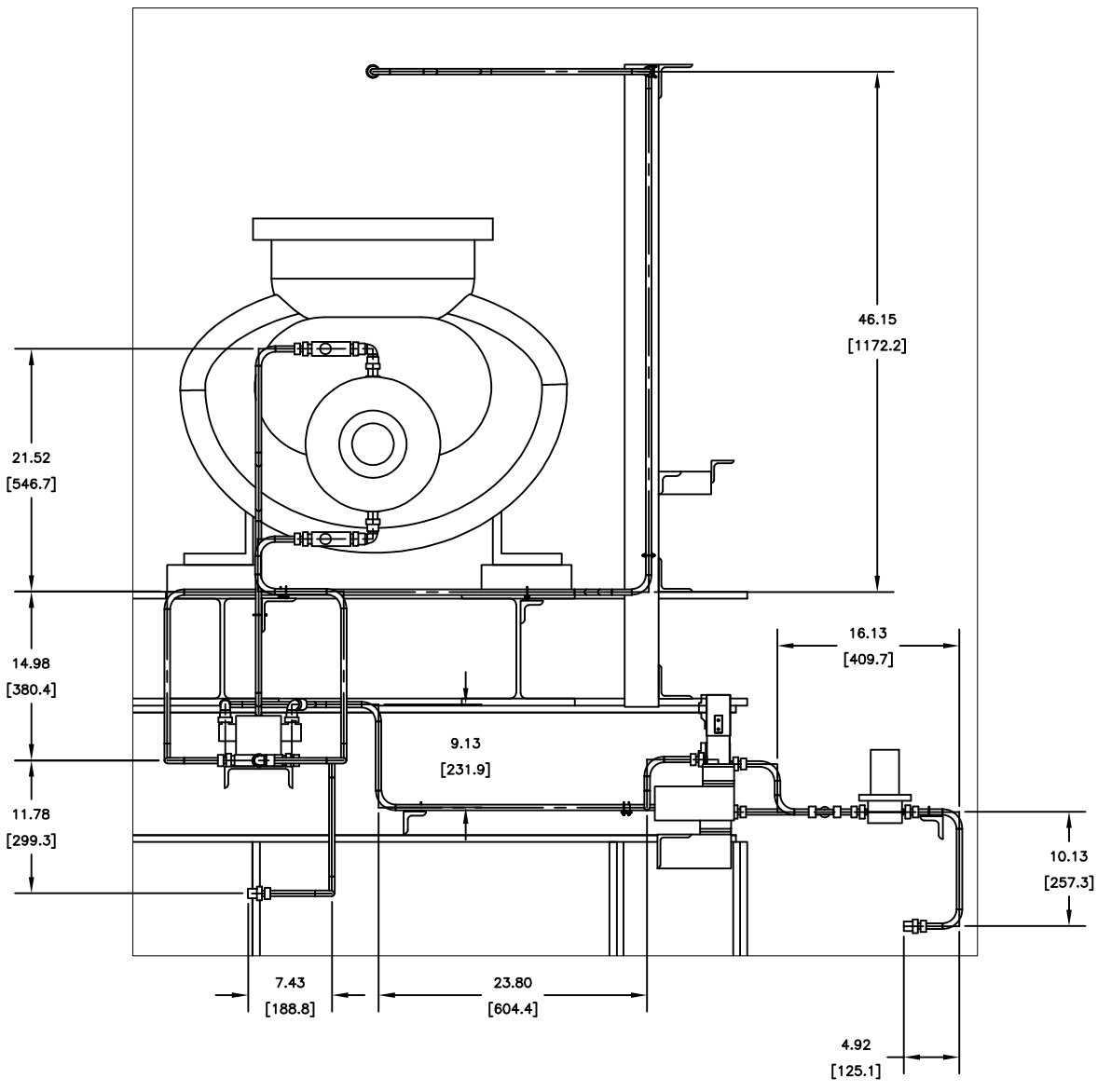
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Signature :	


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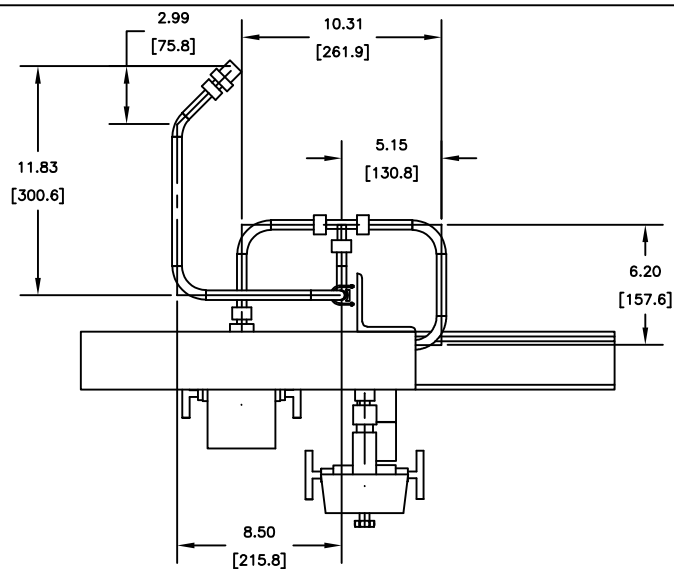


IN-04. Table of MTO and tag no. are missing in this sheet.

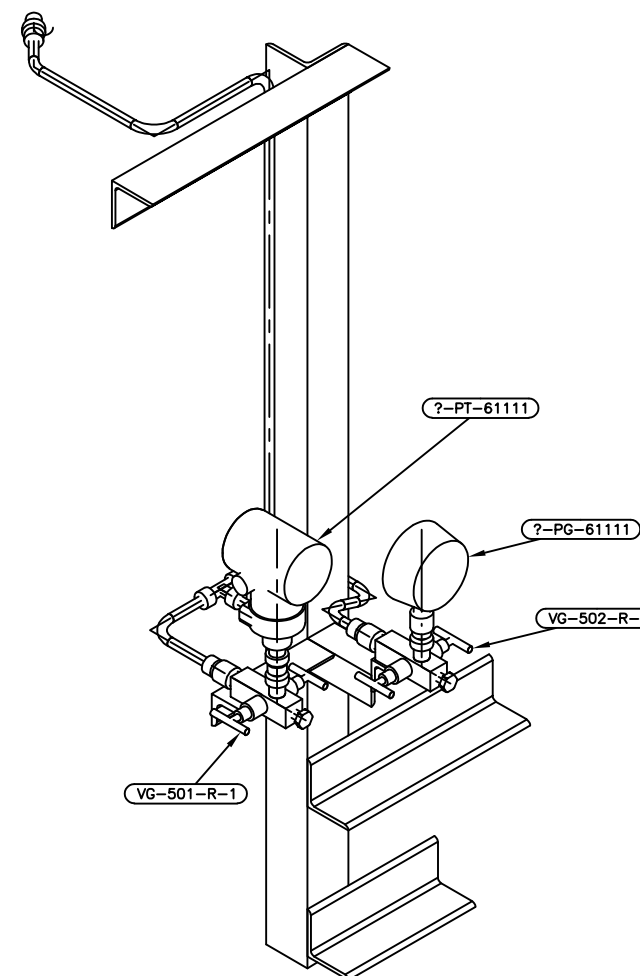
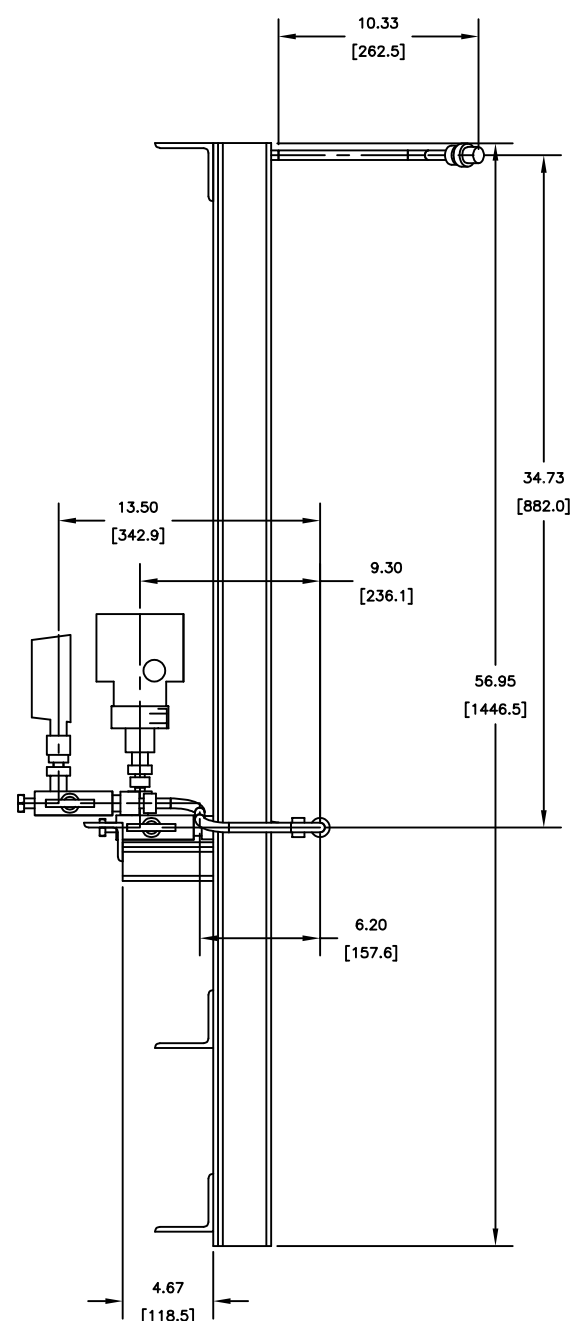
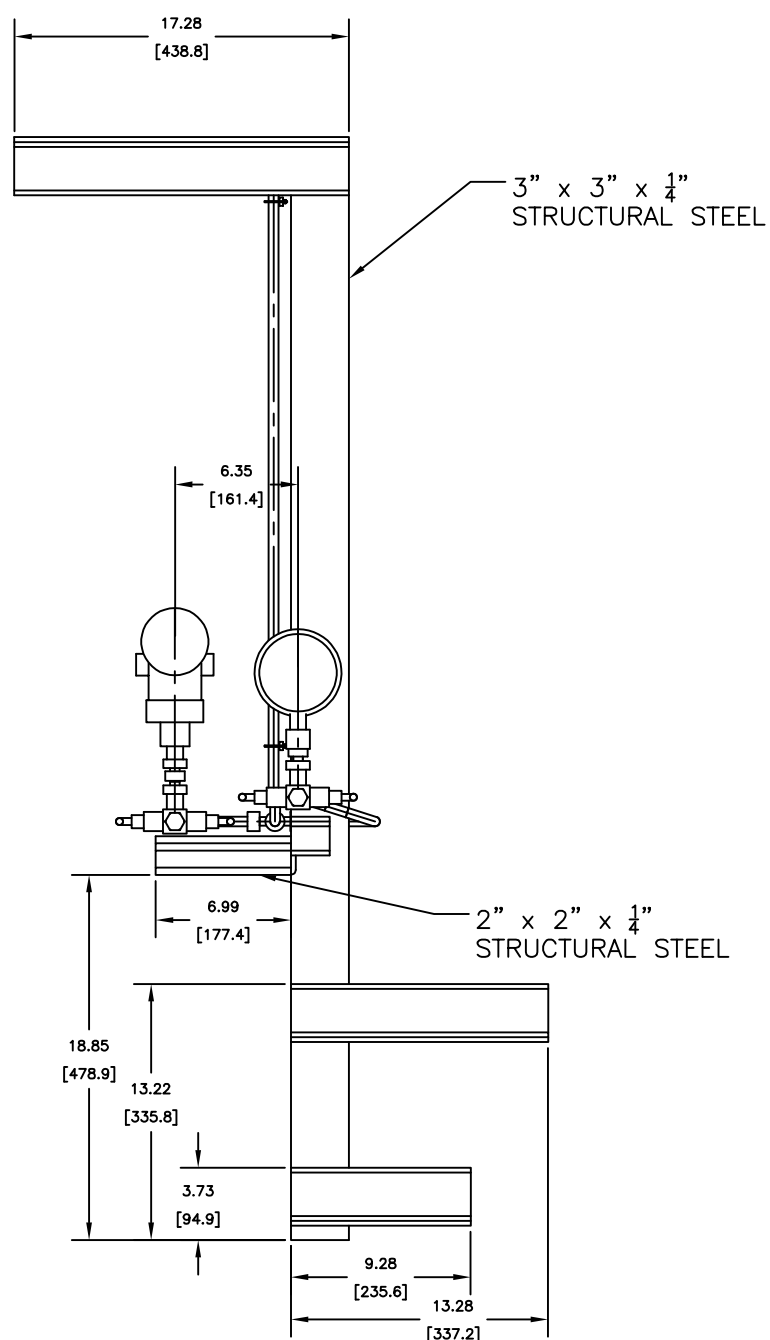


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Signature :					
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ST	BU	PR	SA	HV	TL

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PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
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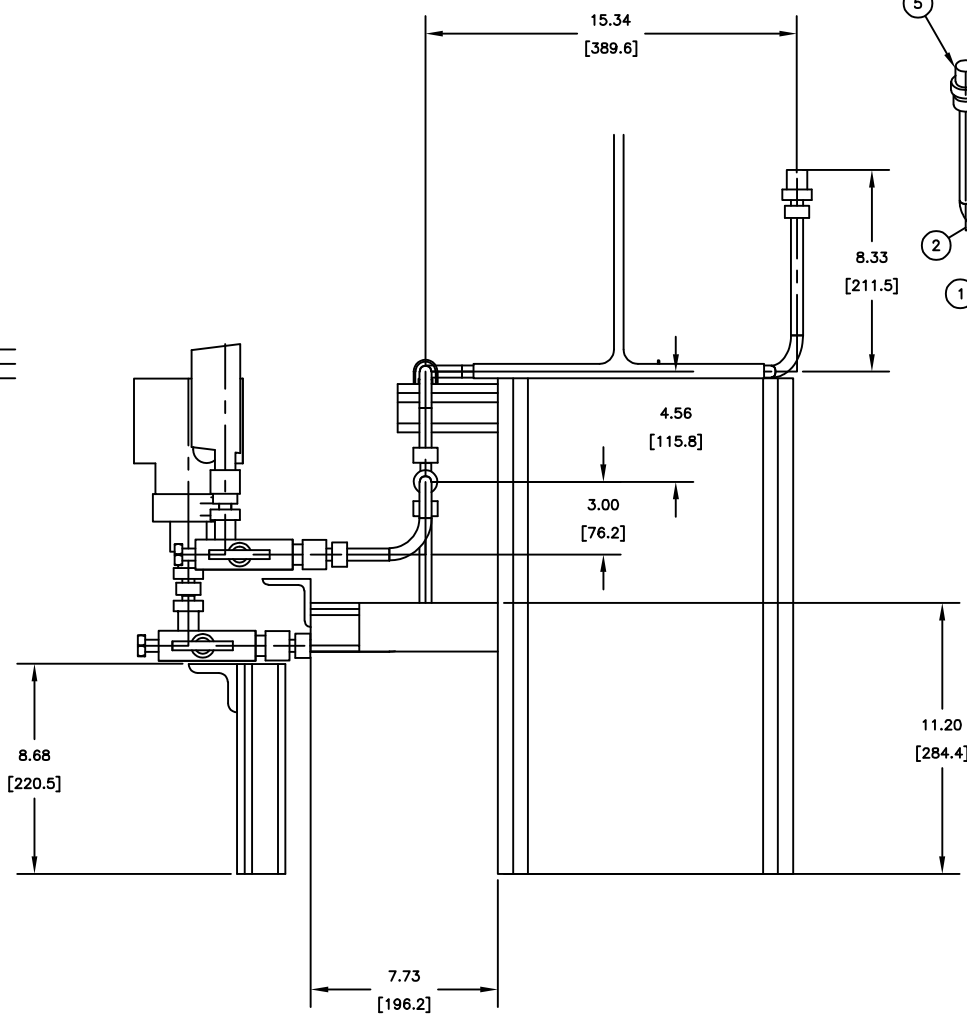
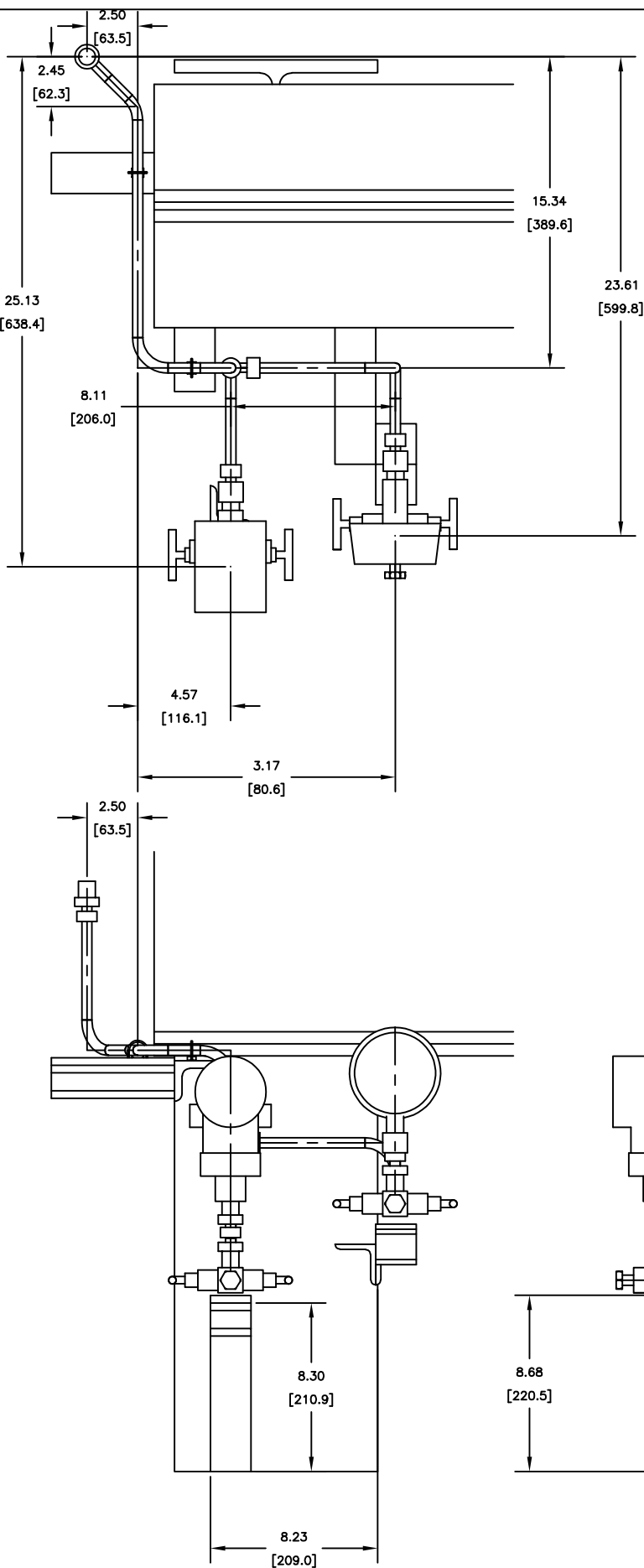


BILL OF MATERIALS				
PIPE				
ID	QTY	ND	DESCRIPTION	
1	5'-0 7/8"	1/2"	TUBING, ASTM A269, SEAMLESS - 316SS	
FITTINGS				
ID	QTY	ND	DESCRIPTION	
2	1	1/2"	BEND 45 5R, TUBING, ASTM A269, 316SS	
3	7	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS	
4	2	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11	
5	1	3/4"x1/2"	Male Connector 3/4" NPT(M) x 1/2" T	
6	1	1/2"	Union_TEE_1/4" to 1"	
VALVES				
ID	QTY	ND	DESCRIPTION	
7	2	1/2"	2-Way-Manifold	
PIPE SUPPORTS				
ID	QTY	ND	DESCRIPTION	
8	2	1/2"	U-clamp	

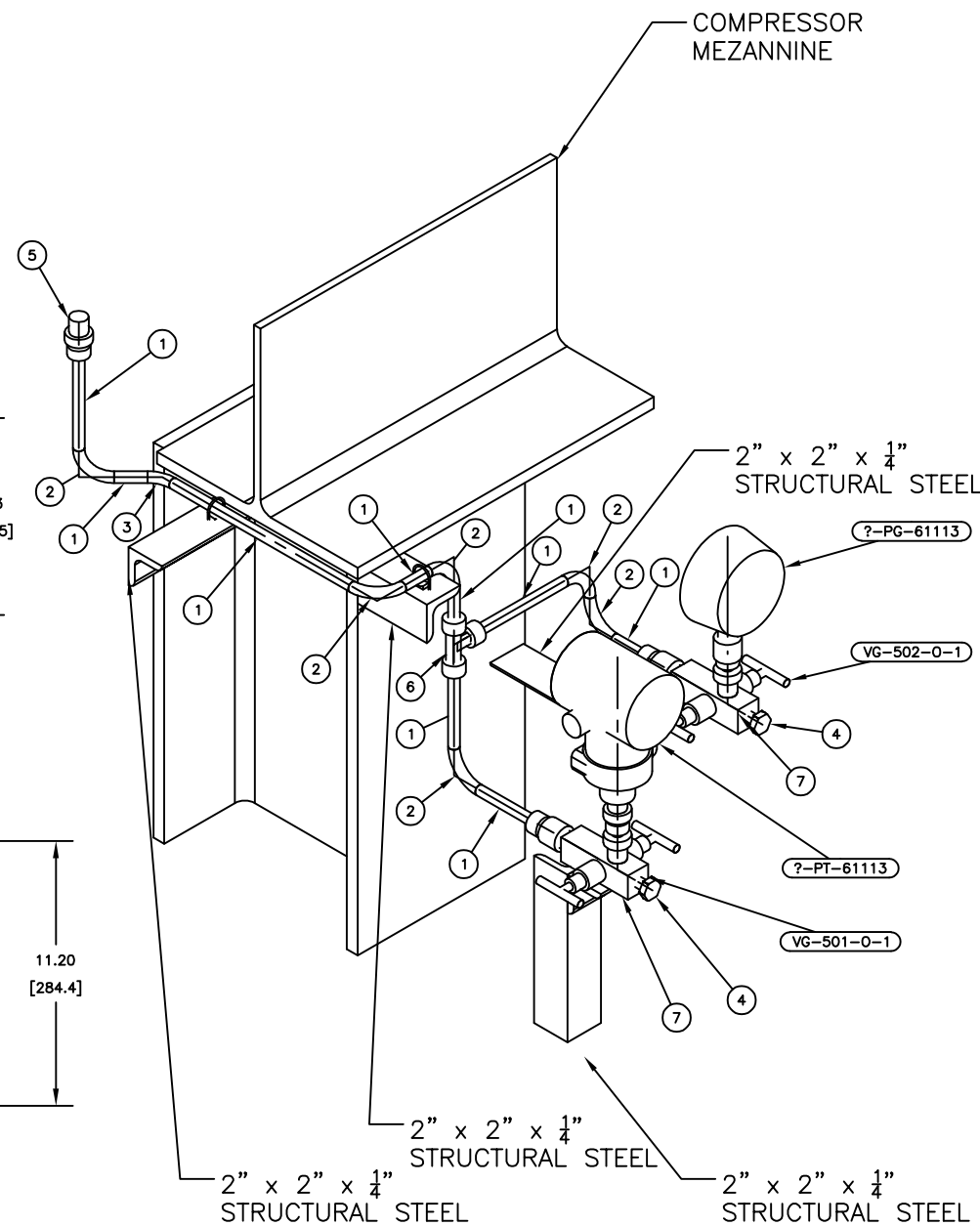


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BILL OF MATERIALS			
PIPE			
ID	QTY	ND	DESCRIPTION
1	3'-0	13/16"	TUBING, ASTM A269, SEAMLESS -- 316SS
FITTINGS			
ID	QTY	ND	DESCRIPTION
2	6	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS
3	1	1/2"	BEND 45 5R, TUBING, ASTM A269, 316SS
4	2	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11
5	1	3/4"x1/2"	Male Connector 3/4" NPT(M) x 1/2" T
6	1	1/2"	Union_TEE_1/4" to 1"
VALVES			
ID	QTY	ND	DESCRIPTION
7	2	1/2"	2-Way-Manifold
PIPE SUPPORTS			
ID	QTY	ND	DESCRIPTION
8	2	1/2"	U-clamp



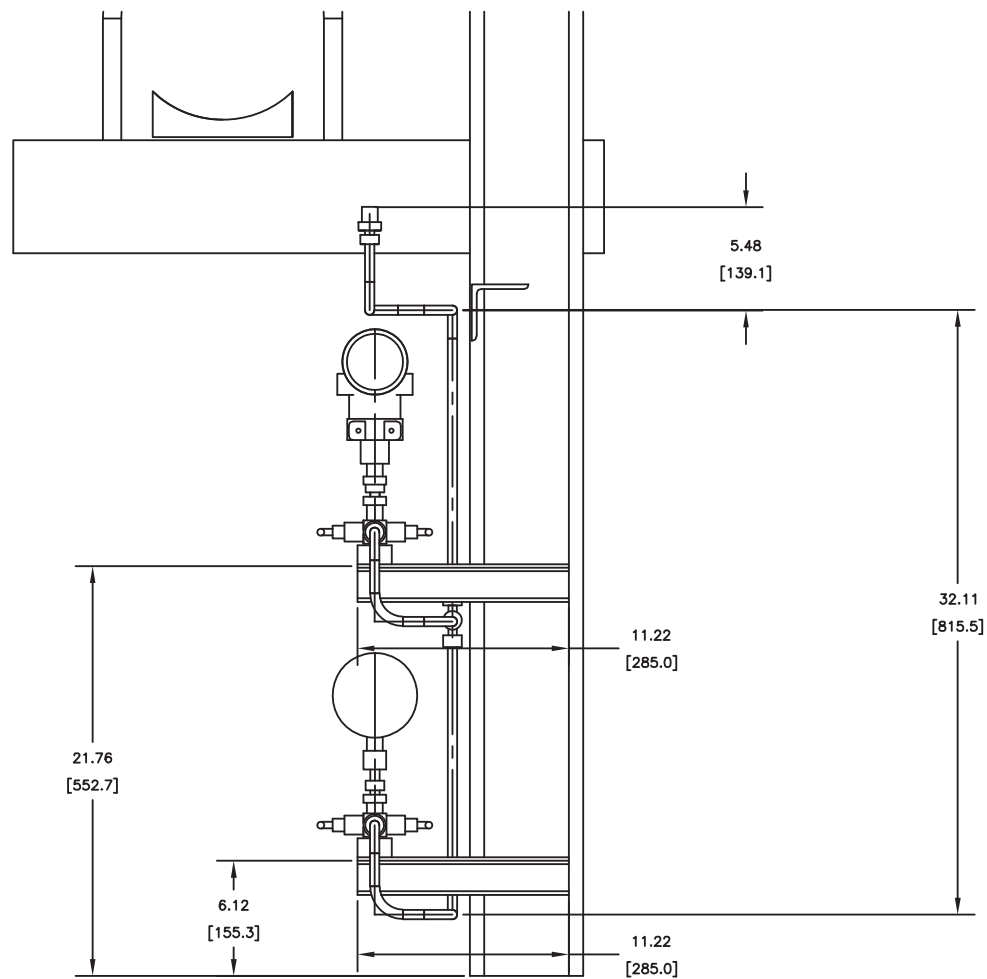
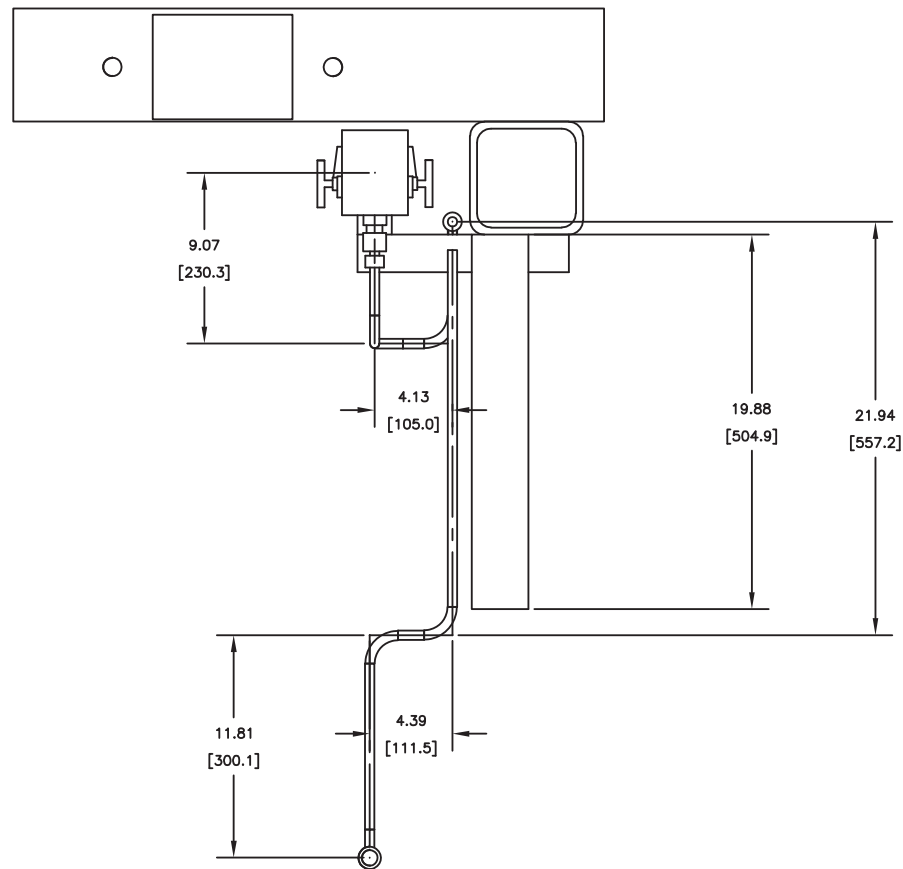
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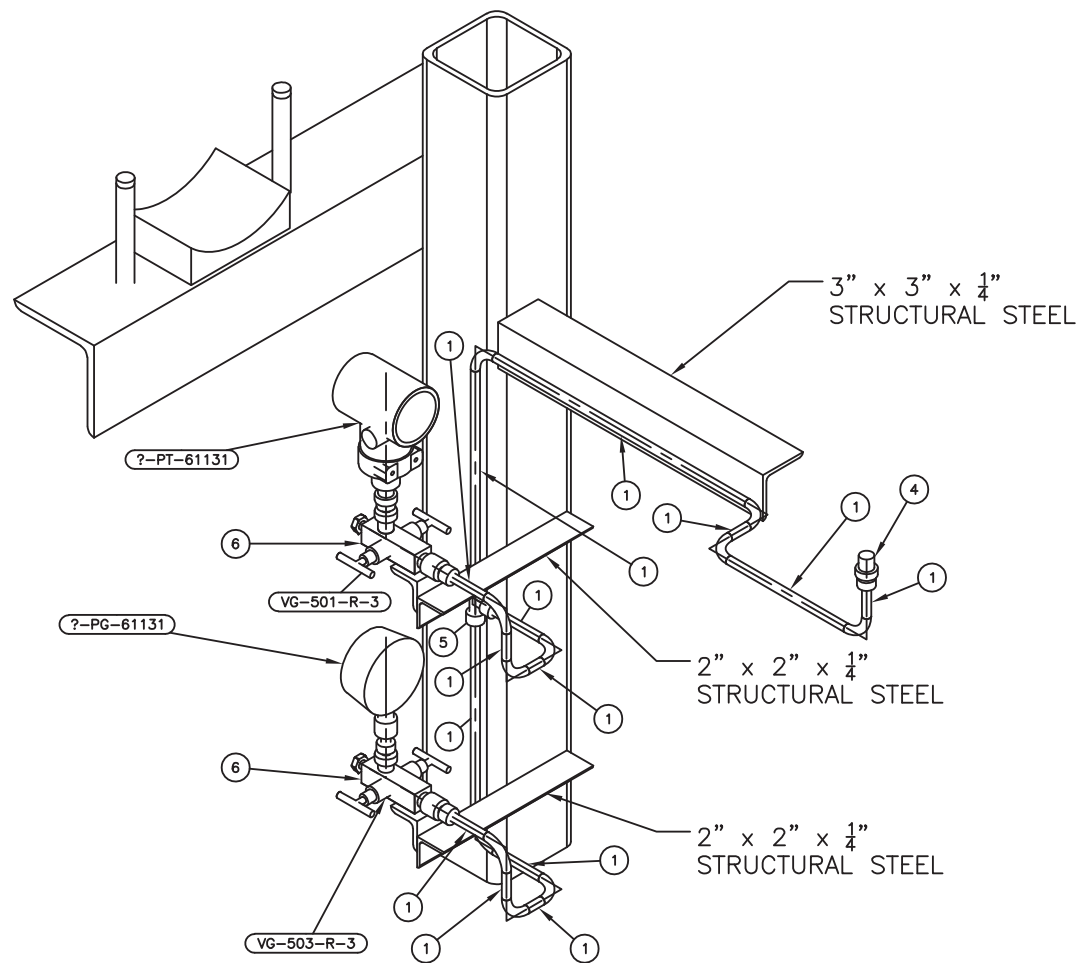
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DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV. 00	SHEET NO. 9 of 17	SIZE A3

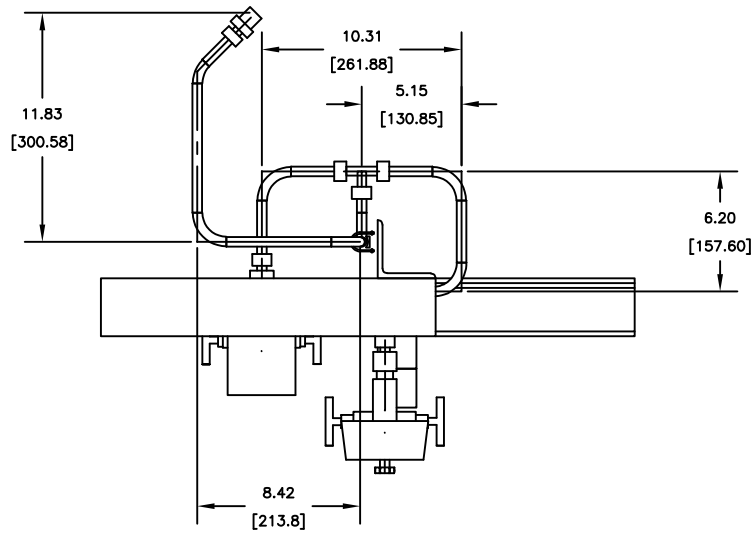


BILL OF MATERIALS			
PIPE			
ID	QTY	ND	DESCRIPTION
1	6'-5 5/16"	1/2"	TUBING, ASTM A269, SEAMLESS - 316SS
FITTINGS			
ID	QTY	ND	DESCRIPTION
2	11	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS
3	2	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11
4	1	3/4"x1/2"	Male Connector 3/4" NPT(M) x 1/2" T
5	1	1/2"	Union_TEE_1/4" to 1"
VALVES			
ID	QTY	ND	DESCRIPTION
6	2	1/2"	2-Way-Manifold
PIPE SUPPORTS			
ID	QTY	ND	DESCRIPTION
7	1	10"	U-clamp

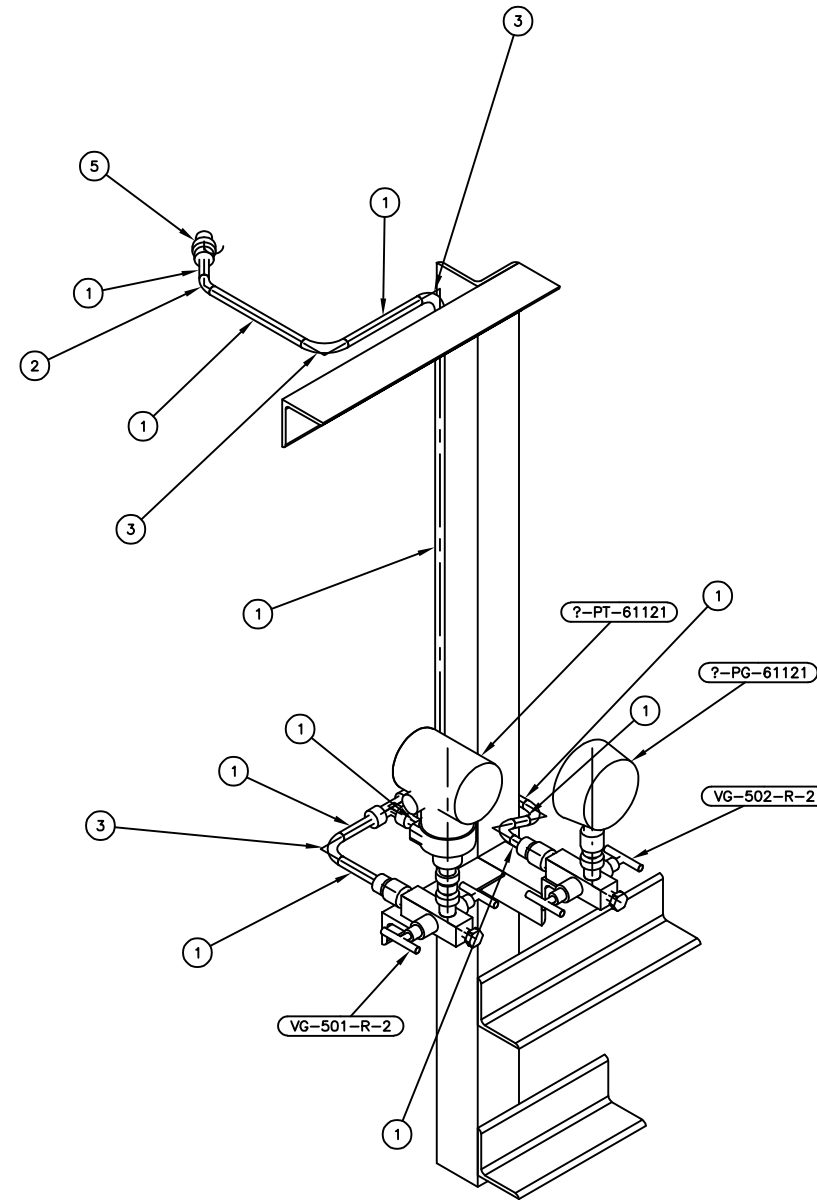
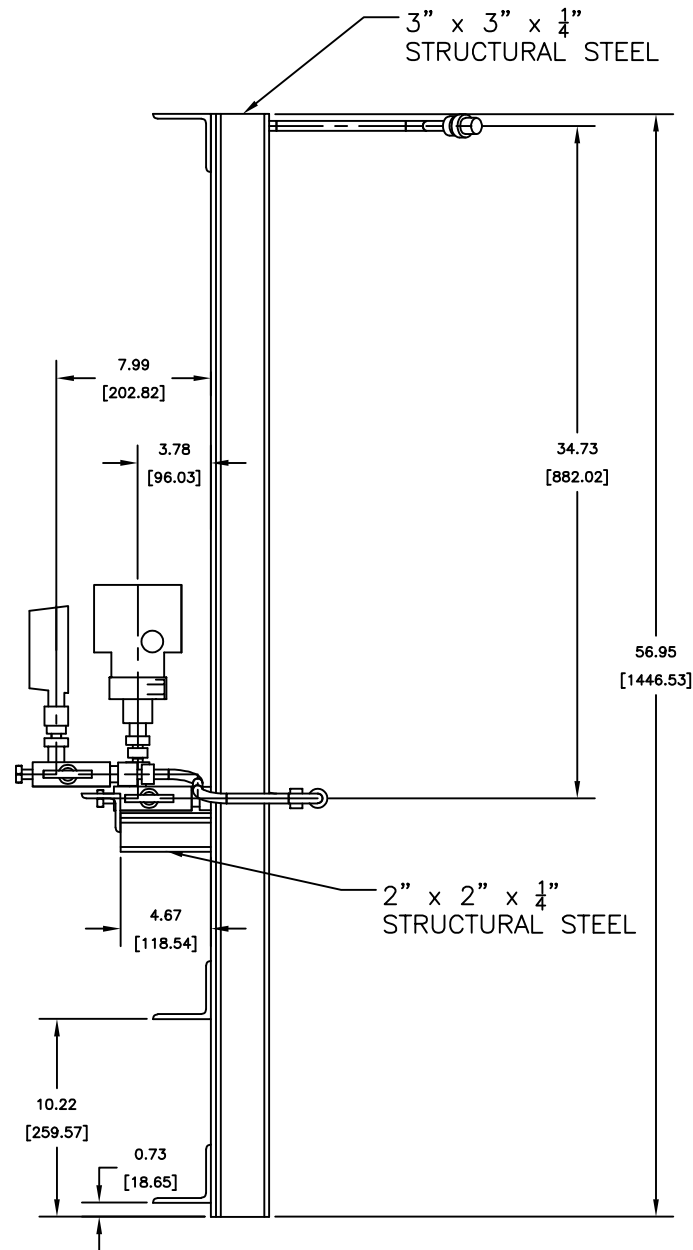
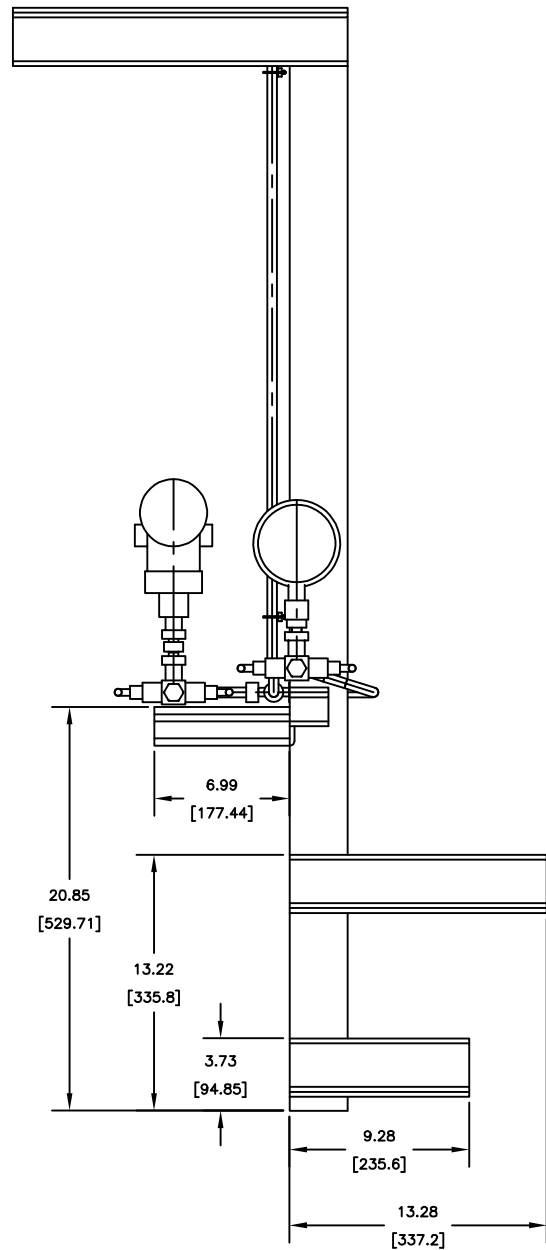


Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing				
Code2	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.				
Code3	<input 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				
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. Vendor Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments				
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The above checking result by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing					
 DATE : DEPT : Signature :					
CV	PI	EL	IN	ME	MA
ST	BU	FR	SA	HV	TL

00	09-DEC-2025	IFI	D.SH	F.T	A.M
REV.	DATE (DD-MMM-YY)	Purpose of Issue	Prepared	Checked	Approved
 <b>Gacharan Polymer Industries Company</b> <b>HDPE Plant</b>					
PO No.: GPIC-PT-MA-PO-000-3029				SCALE: 1:1	
DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV. 00	SHEET NO. 10 of 17	SIZE A3

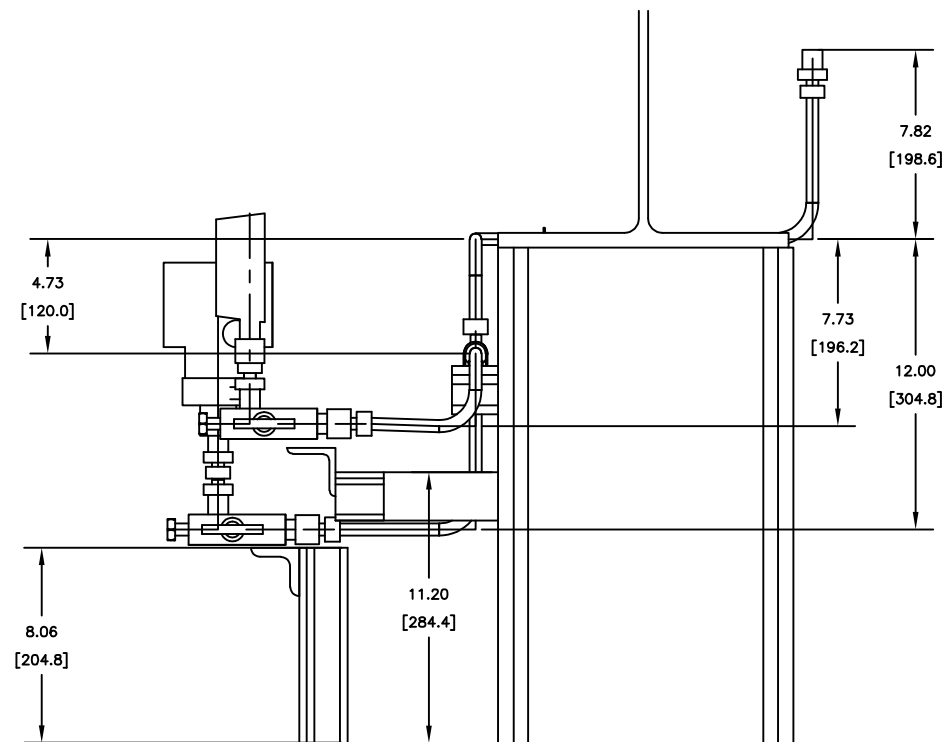
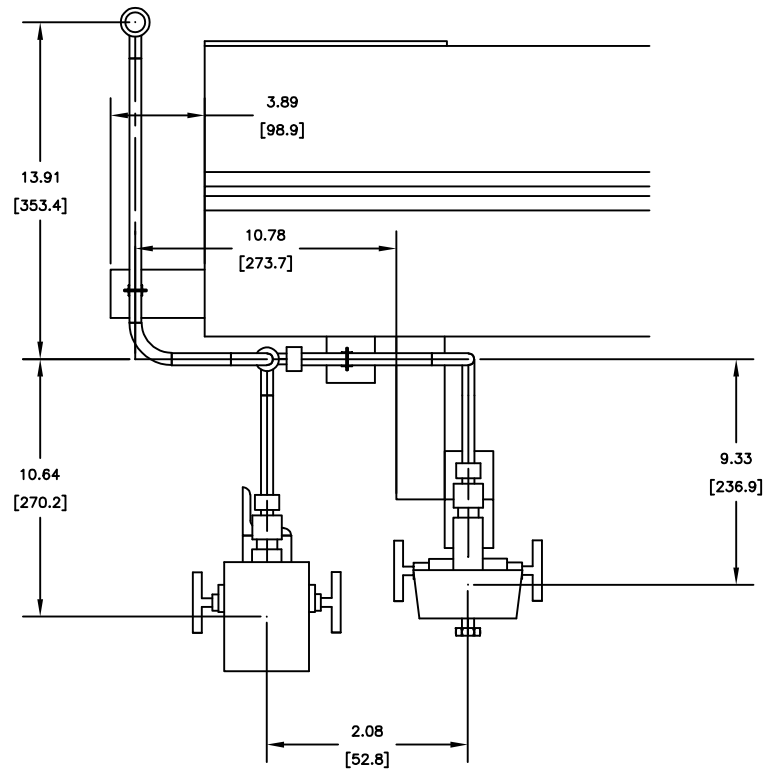


BILL OF MATERIALS			
PIPE			
ID	QTY	ND	DESCRIPTION
1	5'-5 9/16"	1/2"	TUBING, ASTM A269, SEAMLESS - 316SS
FITTINGS			
ID	QTY	ND	DESCRIPTION
2	1	1/2"	BEND 45 5R, TUBING, ASTM A269, 316SS
3	7	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS
4	2	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11
5	1	3/4"x1/2"	Male Connector 3/4" NPT(M) x 1/2" T
6	1	1/2"	Union_TEE_1/4" to 1"
VALVES			
ID	QTY	ND	DESCRIPTION
7	2	1/2"	2-Way-Manifold
PIPE SUPPORTS			
ID	QTY	ND	DESCRIPTION
8	2	1/2"	U-clamp

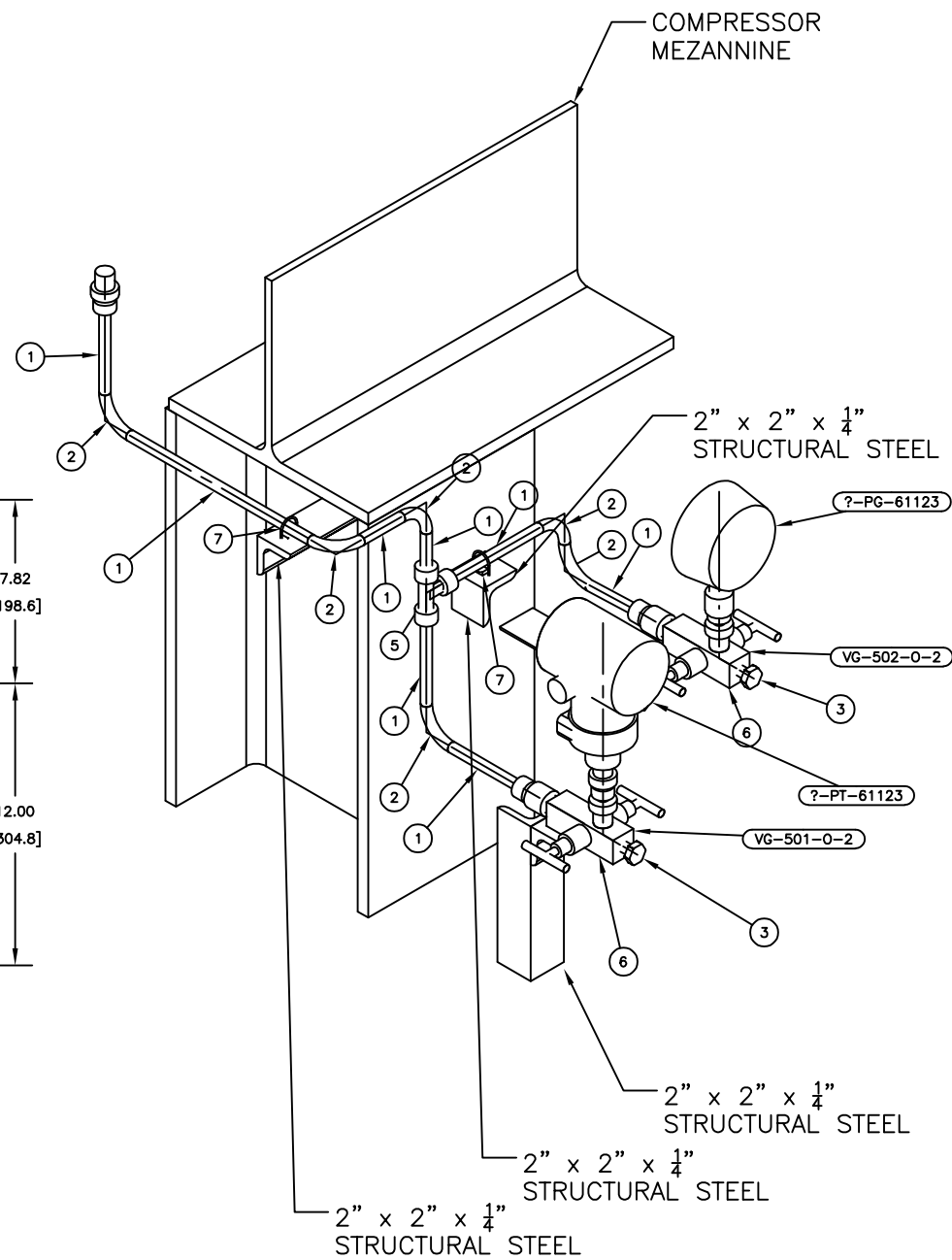


Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing				
Code2	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.				
Code3	<input 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 "To Revised Issue". All corrected 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. Vendor Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments				
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DATE : DEPT : Signature :					
CV	PI	EL	IN	ME	MA
ST	BU	PR	SA	HV	TL

00	09-DEC-2025	IFI	D.SH	F.T	A.M
REV.	DATE (DD.MM.YY)	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: Instruments Hookup Diagram and MTO					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV.	SHEET NO.	SIZE
			00	11 of 17	A3

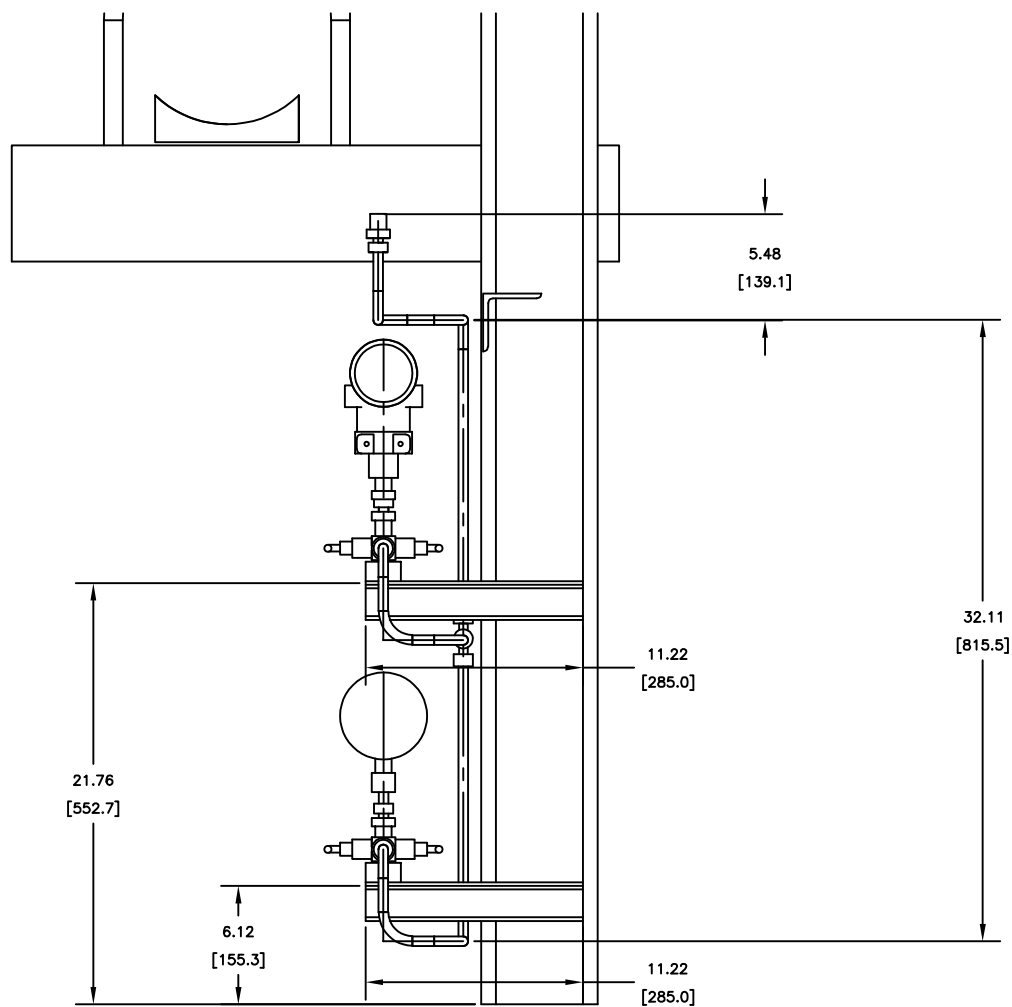
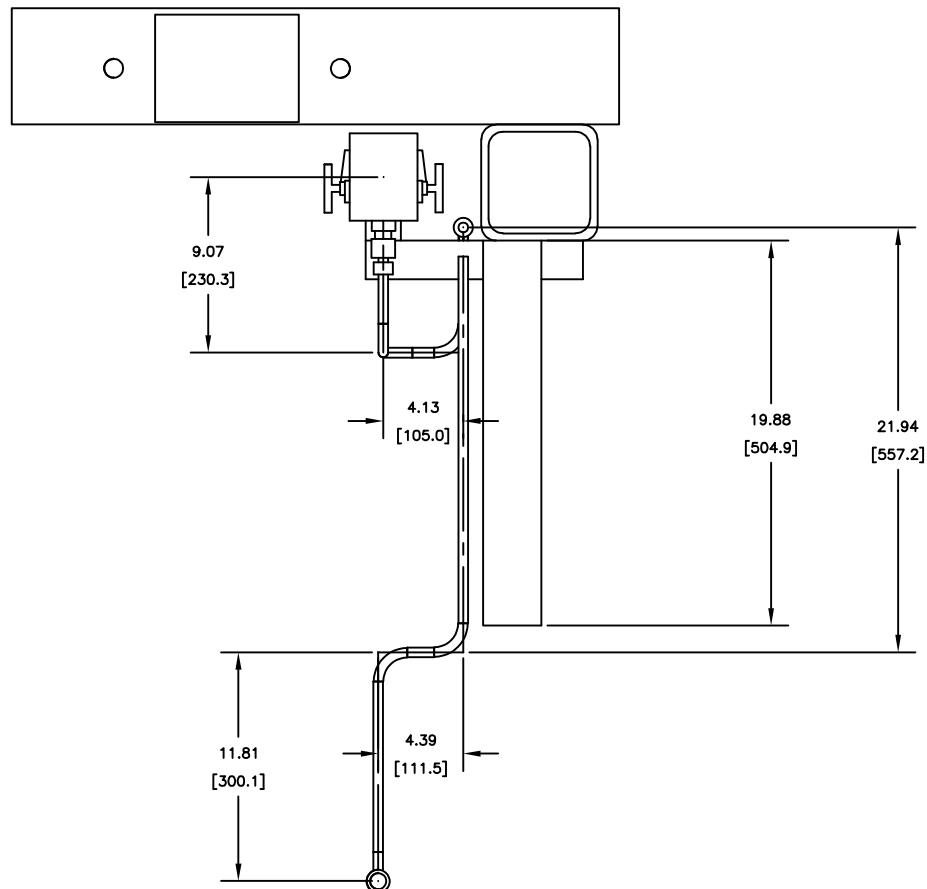


BILL OF MATERIALS			
PIPE			
ID	QTY	ND	DESCRIPTION
1	3'-2 3/4"	1/2"	TUBING, ASTM A269, SEAMLESS - 316SS
FITTINGS			
ID	QTY	ND	DESCRIPTION
2	6	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS
3	2	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11
4	1	3/4"x1/2"	Male Connector 3/4" NPT(M) x 1/2" T
5	1	1/2"	Union_TEE_1/4" to 1"
VALVES			
ID	QTY	ND	DESCRIPTION
6	2	1/2"	2-Way-Manifold
PIPE SUPPORTS			
ID	QTY	ND	DESCRIPTION
7	2	1/2"	U-clamp

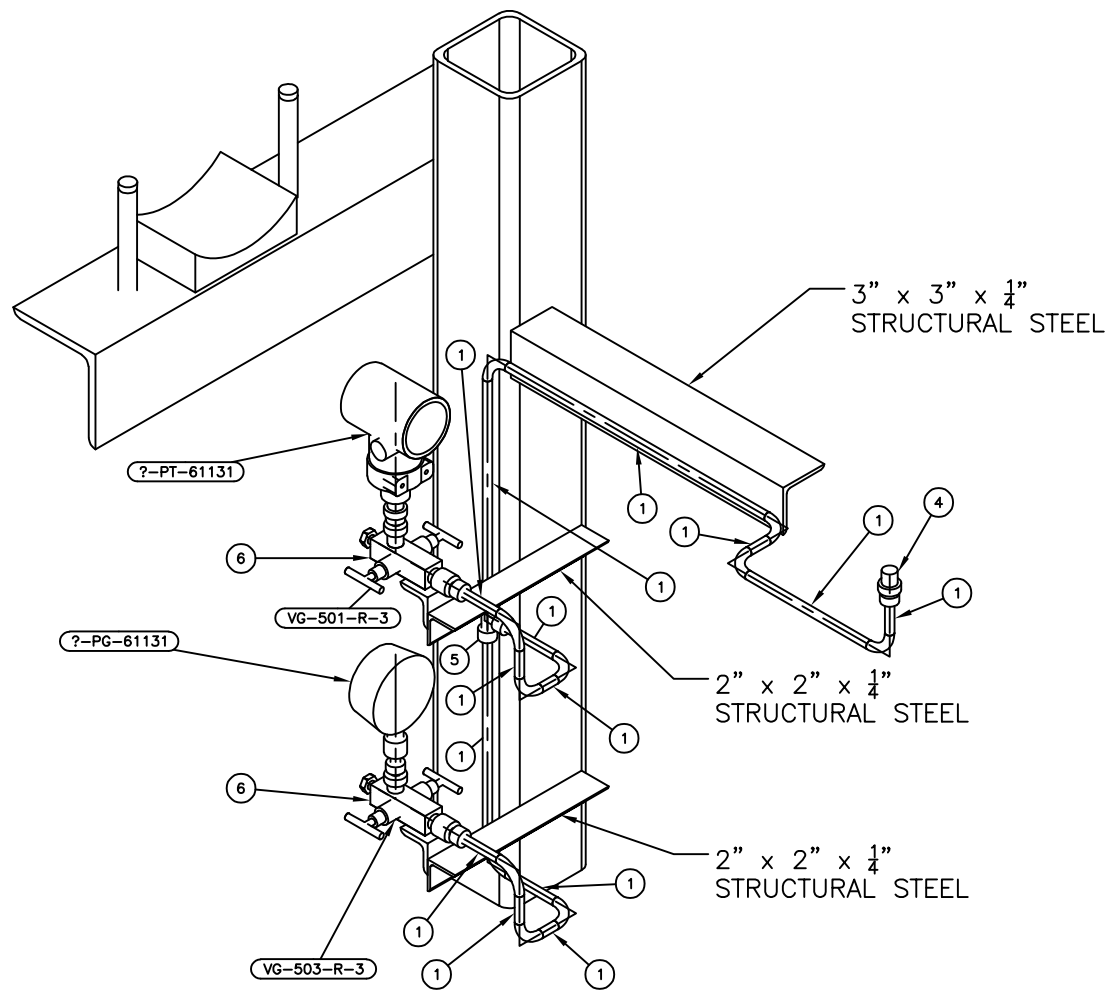


Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing				
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Code3	<input type="checkbox"/> Commented Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "Re Revised Issue". All corrected 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. Vendor/Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments				
No Code	<input type="checkbox"/> No Code (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.				
The above checking result by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing					
DATE : _____					
DEPT: _____					
Signature : _____					
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ST	BU	PR	SA	HV	TL

00	09-DEC-2025	IFI	D.SH	F.T	A.M
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>			
PO No.: GPIC-PT-MA-PO-000-3029					
DRAWING TITLE: Instruments Hookup Diagram and MTO					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV.	SHEET NO.	SIZE
			00	12 of 17	A3

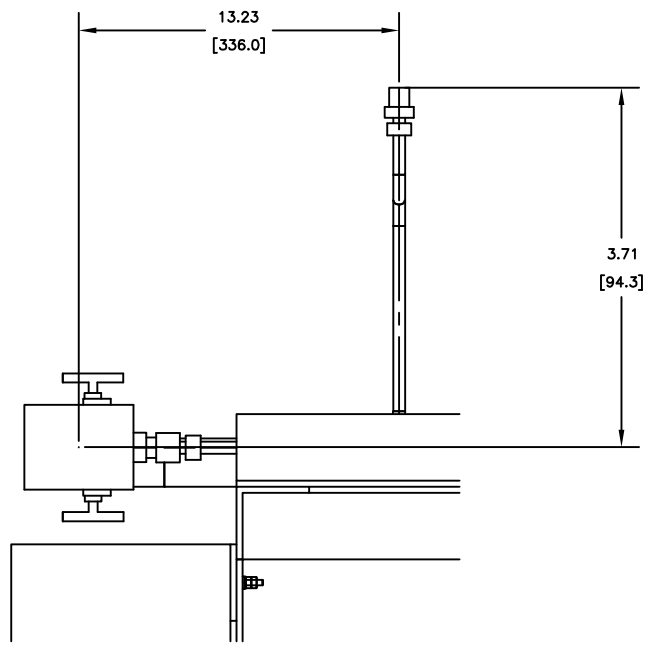


BILL OF MATERIALS			
PIPE			
ID	QTY	ND	DESCRIPTION
1	6'-5 5/16"	1/2"	TUBING, ASTM A269, SEAMLESS - 316SS
FITTINGS			
ID	QTY	ND	DESCRIPTION
2	11	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS
3	2	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11
4	1	3/4"x1/2"	Male Connector 3/4" NPT(M) x 1/2" T
5	1	1/2"	Union_TEE_1/4" to 1"
VALVES			
ID	QTY	ND	DESCRIPTION
6	2	1/2"	2-Way-Manifold
PIPE SUPPORTS			
ID	QTY	ND	DESCRIPTION
7	1	10"	U-clamp

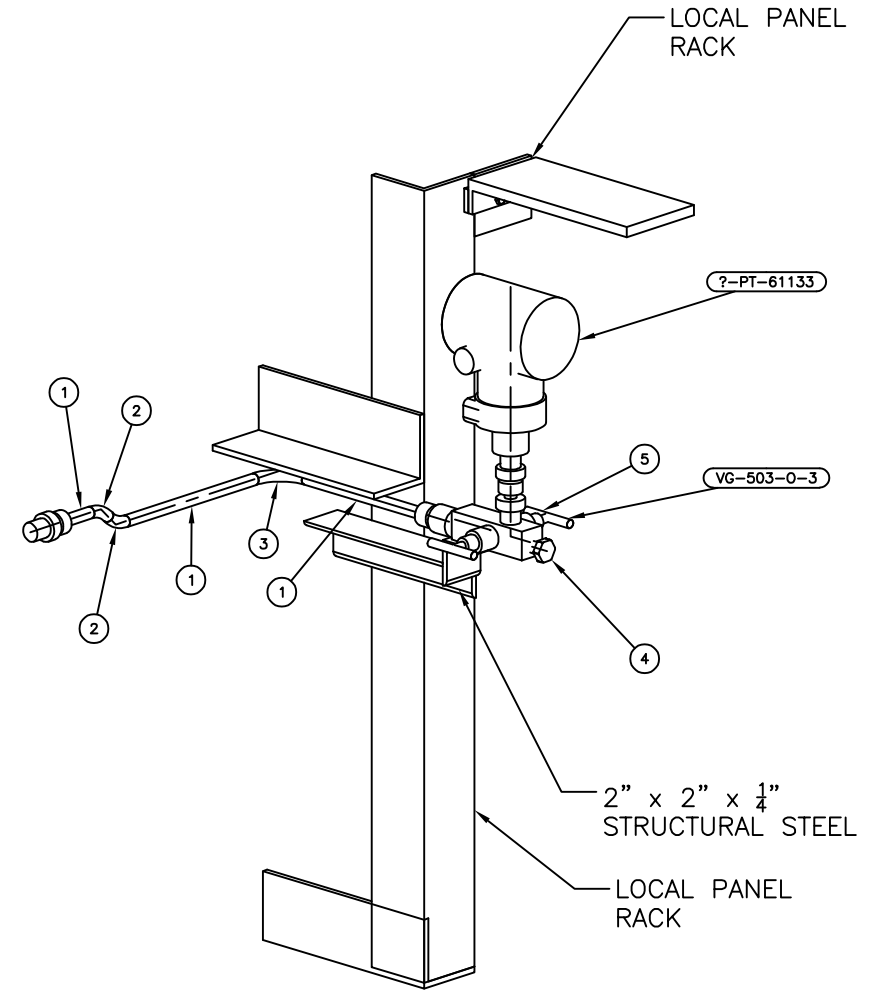
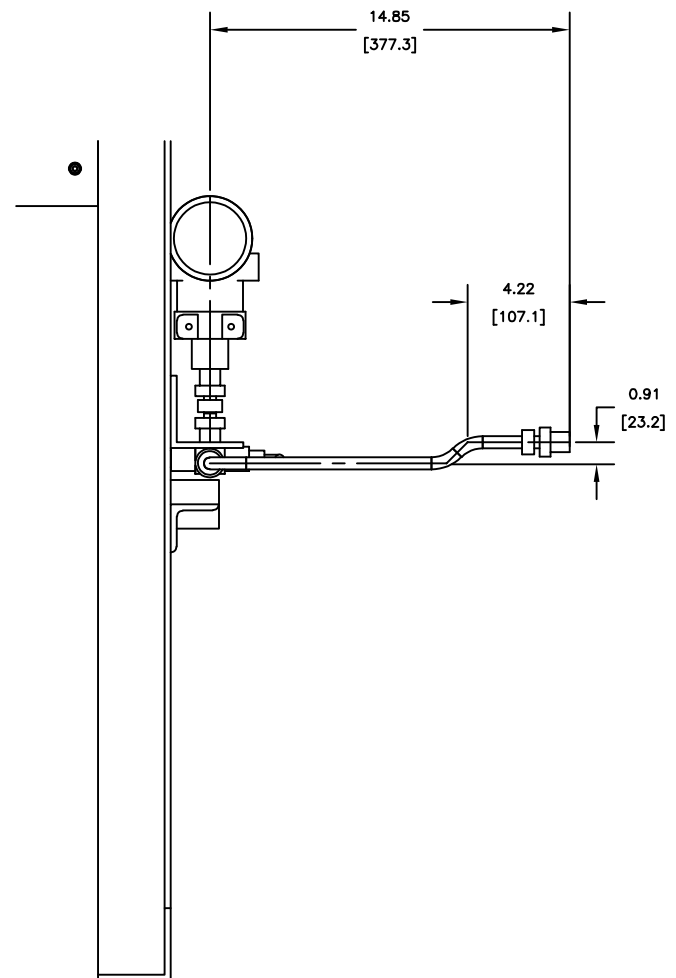
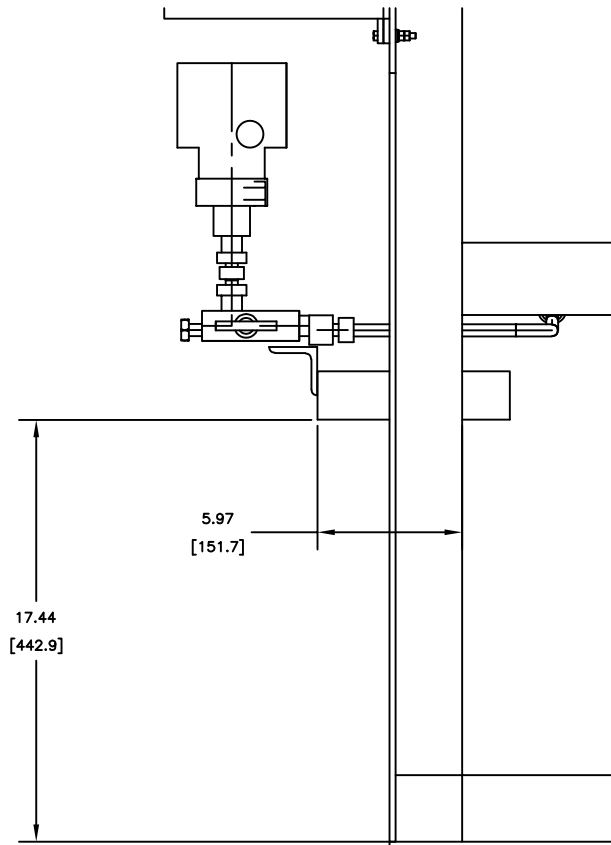


Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing				
Code2	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.				
Code3	<input 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 "Re Revised Issue". All corrected 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 works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments				
No Code	<input type="checkbox"/> No Code (Only for "For Information" Documents and "As Built DWG") Document has been submitted for PURCHASER'S information (VI). Consistency, completeness and correctness of document content is in Vendor/Sub-Contractor's responsibility.				
The above checking result by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing					
DATE :					
DEPT :					
Signature :					
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ST	BU	PR	SA	HV	TL

00	09-DEC-2025	IFI	D.SH	F.T	A.M
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>			
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV. 00	SHEET NO. 13 of 17	SIZE A3



BILL OF MATERIALS			
PIPE			
ID	QTY	ND	DESCRIPTION
1	1'-4 7/16"	1/2"	TUBING, ASTM A269, SEAMLESS - 316SS
FITTINGS			
ID	QTY	ND	DESCRIPTION
2	2	1/2"	BEND 45 5R, TUBING, ASTM A269, 316SS
3	1	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS
4	1	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11
VALVES			
ID	QTY	ND	DESCRIPTION
5	1	1/2"	2-Way-Manifold



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 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 "To Be Revised Issue". All corrected 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. Vendor Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments
No Code	<input type="checkbox"/> No Code (Only for "For Information" Documents and "As Built DWGs") Document has been submitted for PURCHASER's information (I). Consistency, completeness and correctness of document content is in Vendor/Sub-Contractor's responsibility.

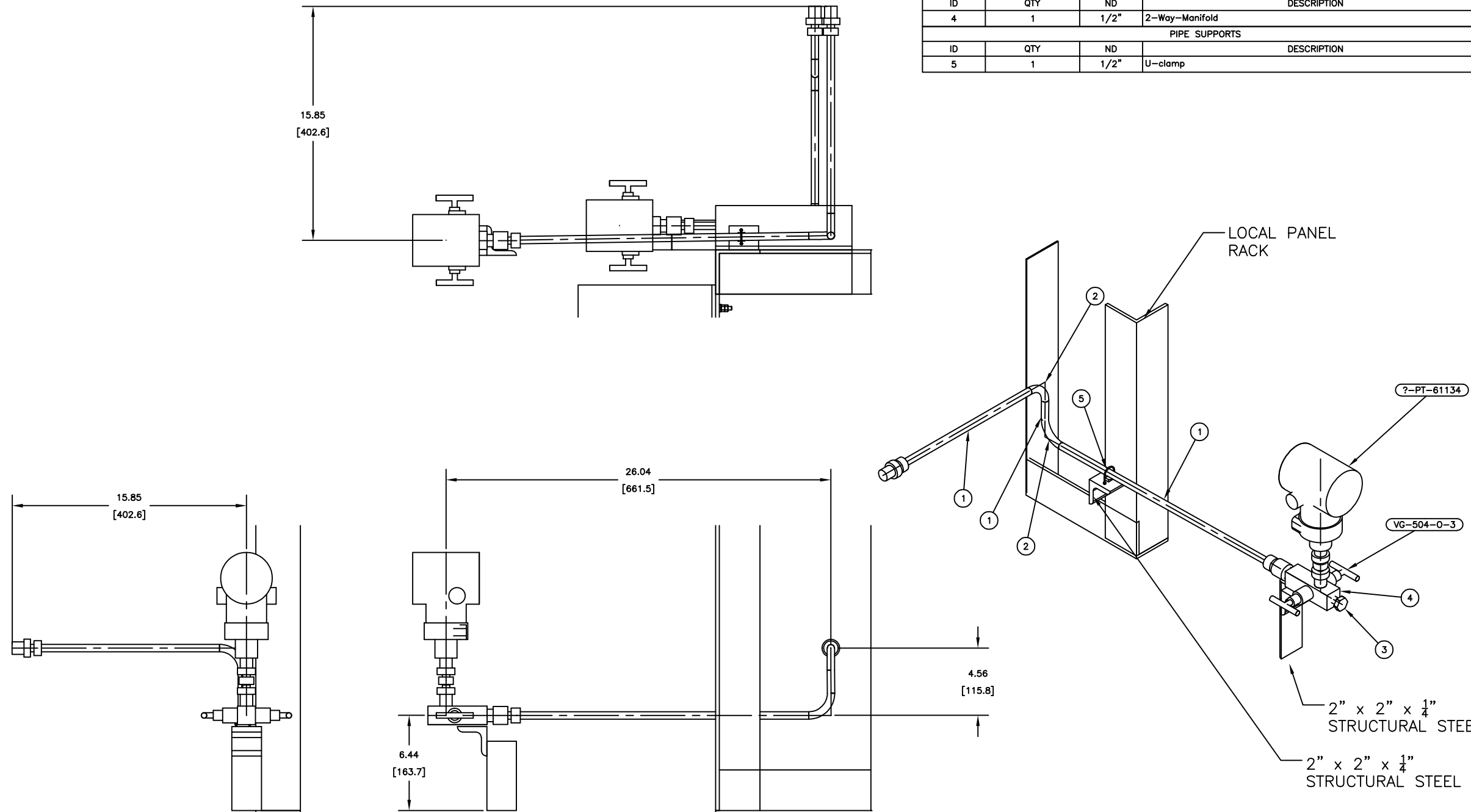
The above checking result by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing


DATE :	
DEPT :	
Signature :	




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ST	BU	PR	SA	HV	TL

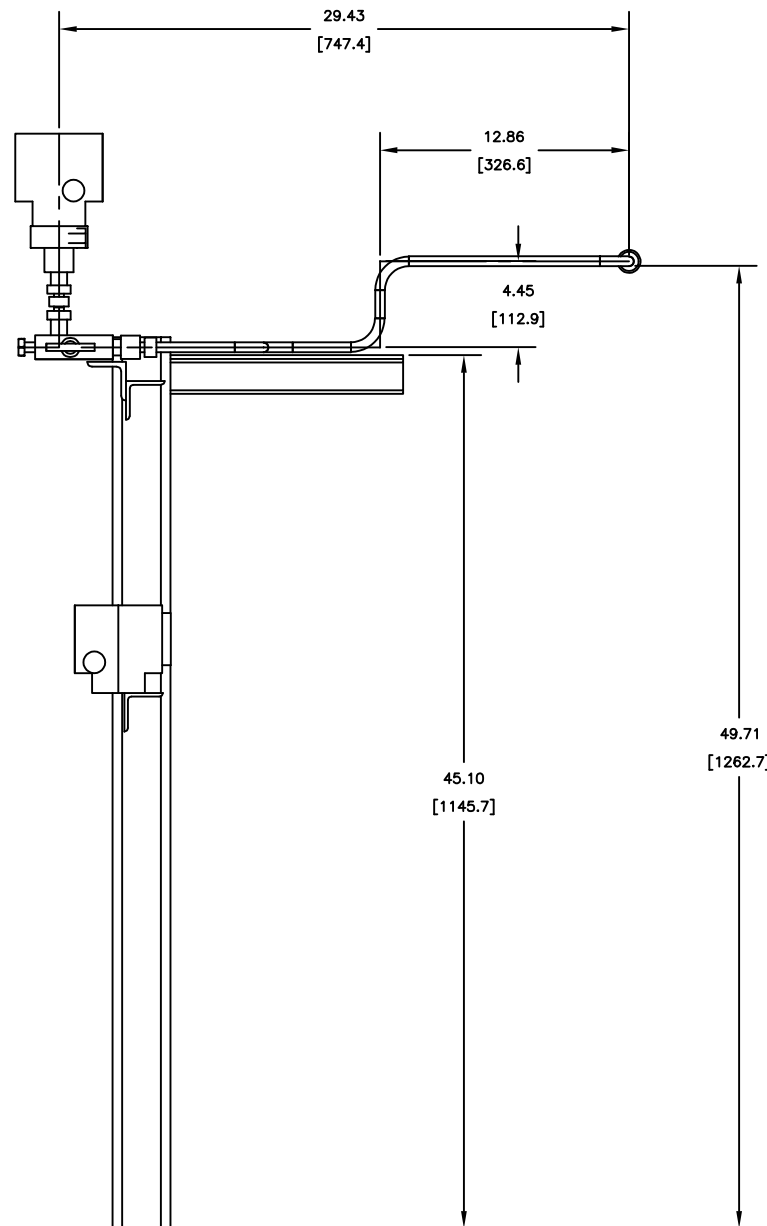
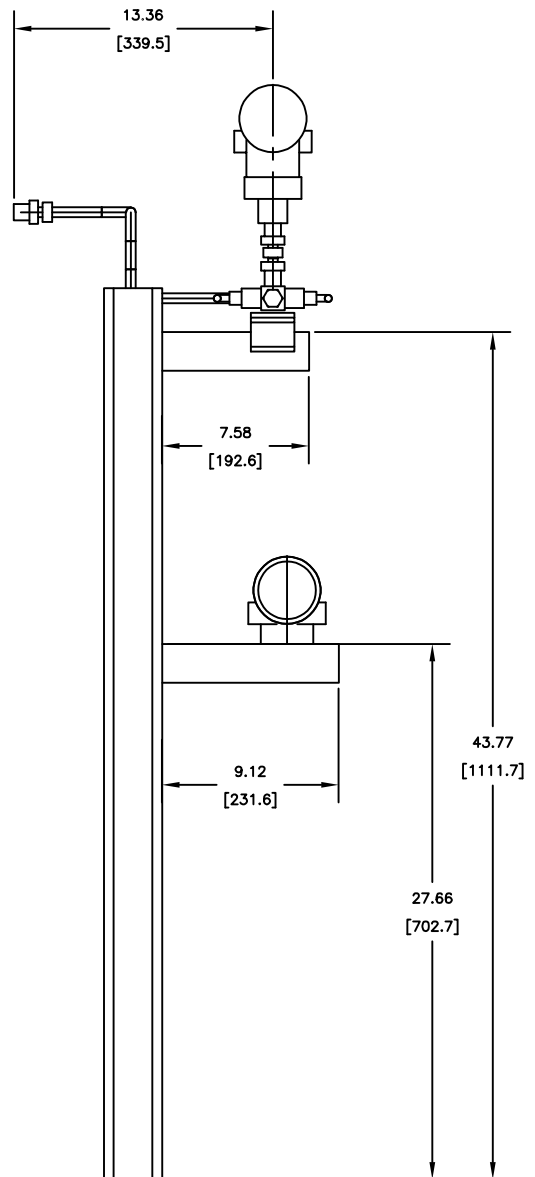
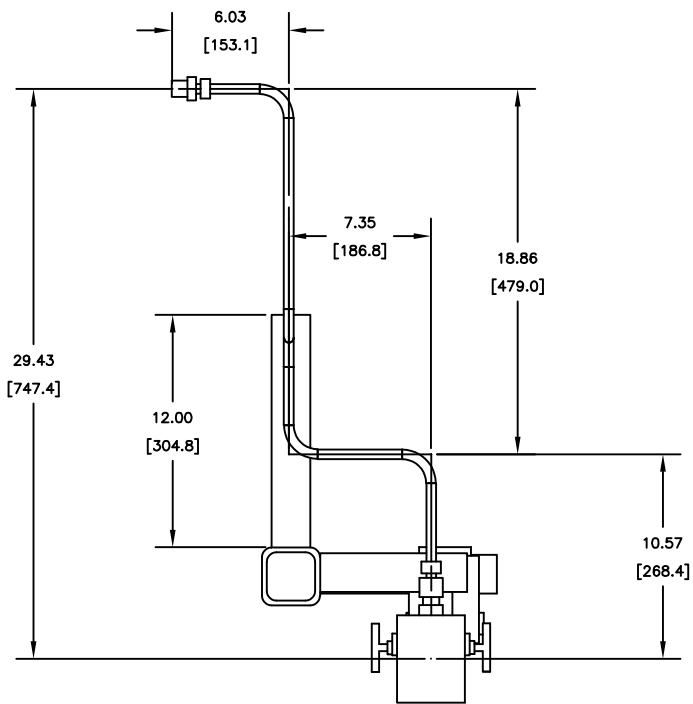
00	09-DEC-2025	IFI	D.SH	F.T	A.M
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsan Polymer Industries Company</b> <b>HDPE Plant</b>			
PO No.: GPIC-PT-MA-PO-000-3029					
DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV.	SHEET NO.	SIZE
			00	14 of 17	A3

BILL OF MATERIALS			
PIPE			
ID	QTY	ND	DESCRIPTION
1	2'-9 5/8"	1/2"	TUBING, ASTM A269, SEAMLESS - 316SS
FITTINGS			
ID	QTY	ND	DESCRIPTION
2	2	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS
3	1	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11
VALVES			
ID	QTY	ND	DESCRIPTION
4	1	1/2"	2-Way-Manifold
PIPE SUPPORTS			
ID	QTY	ND	DESCRIPTION
5	1	1/2"	U-clamp

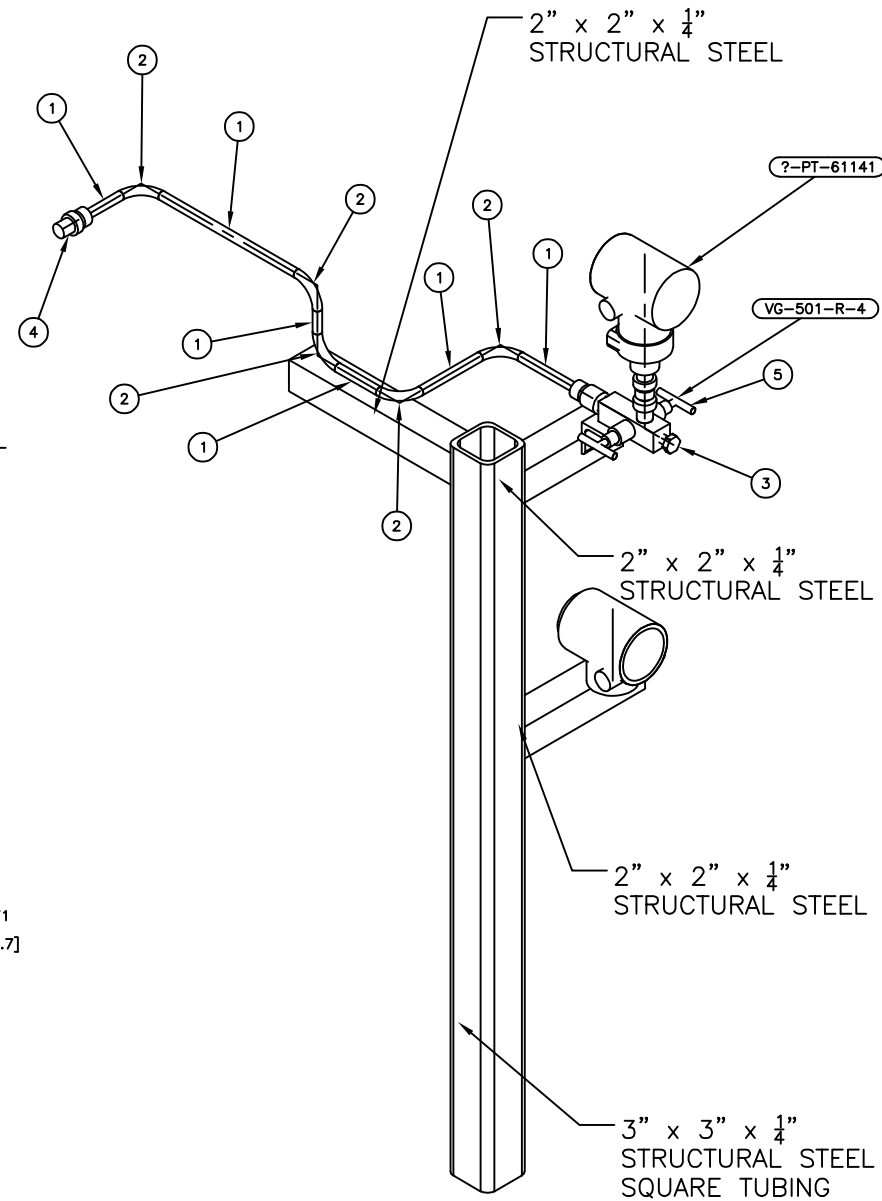


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 DATE : DEPT : Signature :					
CV	PI	EL	IN	ME	MA
ST	BU	PR	SA	HV	TL

00	09-DEC-2025	IFI	D.SH	F.T	A.M
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsaran Polymer Industries Company</b> <b>HOPE Plant</b>			 
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV. 00	SHEET NO. 15 of 17	SIZE A3



BILL OF MATERIALS				
PIPE				
ID	QTY	ND	DESCRIPTION	
1	2'-2"	1/2"	TUBING, ASTM A269, SEAMLESS -- 316SS	
FITTINGS				
ID	QTY	ND	DESCRIPTION	
2	5	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS	
3	1	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11	
4	1	3/4"x1/2"	Male Connector 3/4" NPT(M) x 1/2" T	
VALVES				
ID	QTY	ND	DESCRIPTION	
5	1	1/2"	2-Way-Manifold	

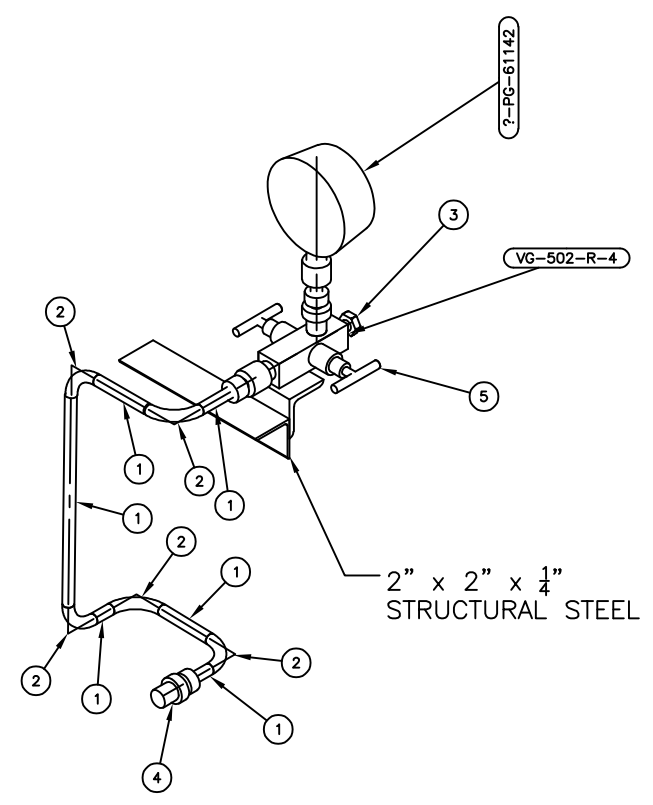
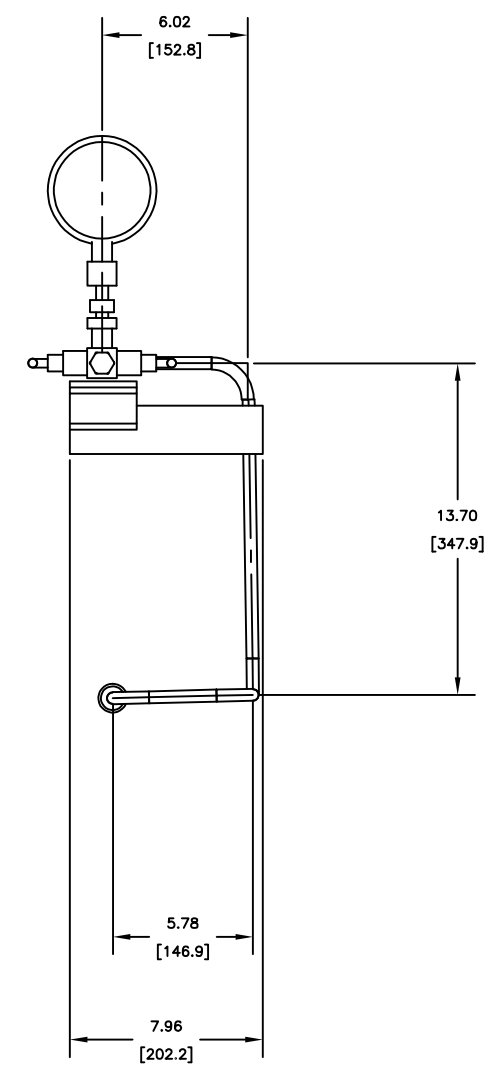
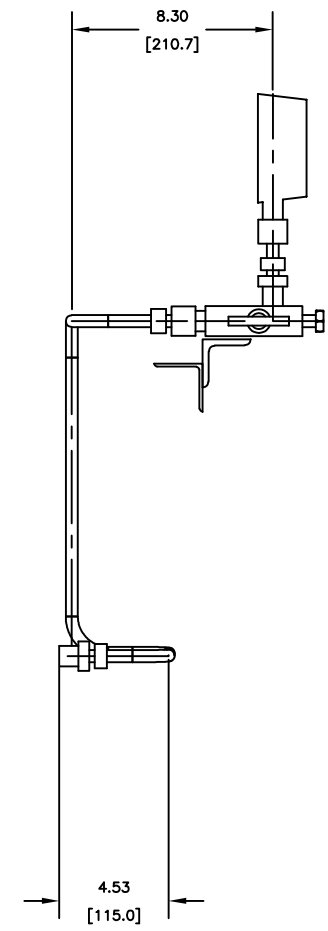
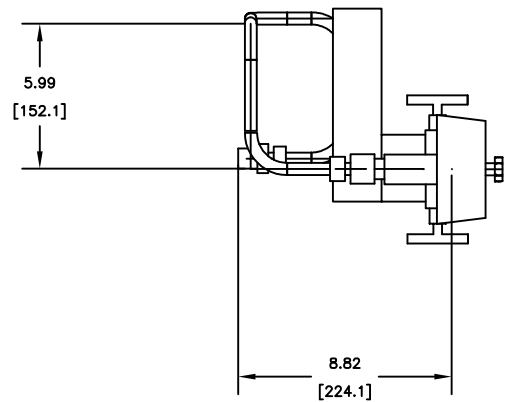


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EIED		DATE :	
		DEPT :	
		Signature :	
CV	PI	EL	IN
ST	BU	PR	SA
		ME	MA
		HV	TL

00	09-DEC-2025	IFI	D.SH	F.T	A.M
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsaran Polymer Industries Company</b> <b>HOPE Plant</b>			
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV. 00	SHEET NO. 16 of 17	SIZE A3



BILL OF MATERIALS				
PIPE				
ID	QTY	ND	DESCRIPTION	
1	1'-8	15/16"	1/2"	TUBING, ASTM A269, SEAMLESS - 316SS
FITTINGS				
ID	QTY	ND	DESCRIPTION	
2	5	1/2"	BEND 90 5R, TUBING, ASTM A269, 316SS	
3	1	1/2"	PLUG, HEX HEAD, MPT, ASME B16.11	
4	1	3/4"x1/2"	Male Connector 3/4" NPT(M) x 1/2" T	
VALVES				
ID	QTY	ND	DESCRIPTION	
5	1	1/2"	2-Way-Manifold	

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 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 "Revised Issue". All corrected 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. Vendor Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments
No Code	<input type="checkbox"/> No Code (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.

The above checking result by EED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.

EIED		DATE :			
		DEPT:			
		Signature :			
CV	FI	EL	IN	ME	MA
ST	BU	PR	SA	HV	TL

00	09-DEC-2025	IFI	D.SH	F.T	A.M
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>			
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: <b>Instruments Hookup Diagram and MTO</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0051			REV. 00	SHEET NO. 17 of 17	SIZE A3