

**REQUEST FOR EXPRESSION OF INTEREST FOR THE PROVISION OF FITTINGS(CS) FOR AGI PIPING**

**REFERENCE NO.: CPP-PROC-TZ-006-0206-01**

China Petroleum Pipeline Engineering Co., Ltd. (hereinafter abbreviated as CPP) as Pipeline, Feederline & Above Ground Installation Contractor for the East African Crude Oil Pipeline (EACOP) Project invites experienced and reputable Contractors to express their interest in supplying kinds of equipment/materials for EACOP Project.

The EACOP Project involves the development, construction, operation and maintenance of a crude oil export pipeline that originates in Kabaale, Uganda and delivers oil for marine export on the East African coast in the Tanga area in Tanzania.

**BRIEF DESCRIPTION OF THE SCOPE:**

- ♦ **Supply of FITTINGS(CS) for AGI PIPING.**

**MINIMUM REQUIREMENTS:**

Companies expressing their interest are invited to document their request with:

1. **Proof of License/Registration Information and Profile of Supplier, including license and TIN certificate.**

2. **Proof of registration/application to Local Supplier Service Provider (LSSP) database at the time of submission of the response to this expression of interest is strongly recommended.**
3. **Fully filled Questionnaire, Key personnel list with CV(Appendix1)and Equipment list of production and inspection(Appendix2) in requested format. (Blank regards as unqualified item.)**
4. **Similar supplying experience within last three years(Appendix3) in requested format.**
5. **Compliance with Petroleum (Local Content) Regulations, 2017 and Local company definition for Tanzania.**
6. **Copy of certificates of ISO 9001, ISO 45001, ISO 14001 or equivalent of them.**
7. **Tax Clearance Certificate for the last three years and Audit report for the last three years.**
8. **The supplier must be manufacturer, Manufacturer's Commitment Letter shall be provided.**
9. **Technical requirements shall meet NO.01-FITTINGS(CS) for AGI PIPING.**

Interested companies which meet the minimum requirements and have the capacity to provide the WORK (GOODS/SERVICES) listed above should express their interest by sending together with the above listed documents an email to [supplierdata1@cpptz.com](mailto:supplierdata1@cpptz.com) (Max. Email Size: 20 MBs, Wettransfer link is available for huge size documents. & All documents must be submitted in the English language) on or before **24:00** hours East African Time (EAT), on **DATE(6/2/2023)**. Subject of the email should be **"EOI for CPP-PROC-TZ-006-0206-01-COMPANY NAME"**. CPP reserves the right not to consider companies that submit an incorrect email subject and the incorrect format of Questionnaire, Appendix 1, 2 and 3.

The format of the required documents and relevant technical requirements(NO.01-FITTINGS (CS) for AGI PIPING) which are mentioned in Minimum Requirements should be downloaded from EACOP's website ( <https://eacop.com/opportunities-by-main-construction-contractors/china-petroleum-pipeline-engineering-co-ltd/> ).

Companies satisfactorily meeting the above minimum requirements will receive, subject to the signature of a Non-Disclosure Agreement (NDA), a detailed pre-qualification questionnaire for further evaluation by Company.

**CPP reserves the right not to consider companies that submit an incomplete dossier.**

**Note 1:** Only pre-qualified companies will receive an invitation to submit their bid in furtherance of the Call for Tender process.

## Questionnaire for the Pre-qualification of Procurement-AGI PPL

NOTE: Please provide documents named by serial number according to each item.

CPP reserves the right not to consider companies that submit Questionnaire filled by hand.

Item No.	Category / Question	
0	<b>NC/LC REQUIREMENTS</b>	
0.1	General Requirements	
0.1.1	Is the Applicant fully aware of the local climatic and working conditions of country and the local applicable laws to carry out the project? (Yes or No)	
0.1.2	Applicant to confirm that the full Scope of the Project can be performed. (Yes or No)	
0.2	National Content Requirements for Uganda (Applicable for Uganda)	
0.2.1	Proof of business registration and business license for Uganda.	
0.2.2	Proof of registration with the PAU National Supplier Database (NSD) for Uganda.	
0.2.3	Compliance with the Petroleum Midstream National Content Regulation # 34,2016 for Uganda.	
0.3	Local Content Requirements for Tanzania (Applicable for Tanzania)	
0.3.1	Proof of business registration and business license for Tanzania.	
0.3.2	Proof of registration/application to EWURA Local Supplier Service Provider (LSSP) database.	
0.3.3	Compliance with Petroleum (Local Content) Regulations, 2017 and Local content requirements for Tanzania.	
1	<b>GENERAL INFORMATION</b>	
1.1	Company Data	
1.1.1	Name of Applicant	
1.1.2	Introduction of Applicant (establishing time,Copies of government issued IDs for all shareholders,main business scope,etc.)	
1.1.3	Applicant address	
1.1.4	Applicant phone number	
1.1.5	Applicant email address	
1.1.6	Applicant Website	

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1.1.7	* Manufacturer's Commitment Letter The supplier must be manufacturer.	
1.2	Authorized contact person and contact details	
1.2.1	Name of authorized contact person	
1.2.2	Contact person's business address - phone number	
1.2.3	Contact person's business address - mobile phone number	
1.2.4	Contact person's business address - email address	
1.3	Organization Chart	
1.3.1	Applicant is requested to attach its organization chart.	
1.4	Language	
1.4.1	English shall be used as the Project language for all documents and correspondence - applicant to confirm	
<b>2</b>	<b>FINANCIAL ASPECTS</b>	
2.1	Bank information	
2.1.1	Name of Applicant's principal bank	
2.1.2	Address of Applicant's principal bank - street and number	
2.1.3	Address of Applicant's principal bank - post code and city	
2.1.4	Address of Applicant's principal bank - country (and state)	
2.2	* Registration with the Tax Revenue Authority	
2.2.1	Registration with the Uganda Tax Revenue Authority, including TIN Certificate.(Applicable for Uganda)	
2.2.2	Registration with the Tanzania Tax Revenue Authority, including TIN Certificate.(Applicable for Tanzania)	
2.3	* Proof of Tax Clearance Certificate	
2.3.1	Proof of Uganda Tax Clearance Certificate for the latest 3 years available.(Applicable for Uganda)	

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Item No.	Category / Question	
2.3.2	Proof of Tanzania Tax Clearance Certificate for the latest 3 years available. (Applicable for Tanzania)	
2.4	Audited financial statements	
2.4.1	Applicant 's financial performance documents, Audited Balance sheets and Profit and Loss statements, Auditors Report and Notes to Accounts etc. for last 3 (three) years. Latest financial statement should not be older than 18 months on the date of submission of response to this Expression of Interest.	
2.5	Line of credit	
2.5.1	The line of credit shall not be less than USD 5 million, and the bid bond and performance bond shall only be issued by internationally renowned banks. (Yes or No)	
<b>3</b>	<b>LITIGATION HISTORY, RISK ASSESSMENT AND ELIGIBILITY</b>	
3.1	Litigation or arbitration history	
3.1.1	Provide information on any history of litigation or arbitration resulting from orders executed in the last (5) years or currently under execution, especially with CPP. (Yes or No)	
3.2	Eligibility	
3.2.1	Does Applicant appear on World Bank's common List of Ineligible Entities available under the following link <a href="http://www.worldbank.org/debarr">http://www.worldbank.org/debarr</a> or is Applicant subject to any sanction from World Bank and from UN? This must be similarly affirmed if the Applicant is an Affiliate or otherwise directly or indirectly controlled by such an ineligible entity. (Yes or No)	
<b>4</b>	<b>QA/QC, HSE, CERTIFICATES, KEY PERSONNEL</b>	
4.1	Please provide Applicant's ISO 9001:2015 Certificate.	
4.2	Please provide Applicant's ISO 45001:2018 Certificate (or equivalent).	
4.3	Please provide Applicant's ISO 14001:2015 Certificate (or equivalent).	
4.4	Please provide QA/QC manuals.	

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Item No.	Category / Question	
4.5	Any other technical Certificates (API, etc.).	
4.6	Please provide key personnel list, Format refer to Appendix 1.	
4.6.1	Please provide QA Manager's CV	
4.6.2	Please provide QC Inspector's CV	
4.6.3	Please provide Production Manager's CV	
<b>5</b>	<b>FABRICATION AND DESIGN</b>	
5.1	Range of products for oil and gas industry the applicant produces. (Yes or No)	
5.2	Please give details of your manufacturing and design/engineering facilities (size, area, number, etc.).	
5.3	Do you have in house design facilities? (Yes or No)	
5.4	Please provide details of the assembly yard/facilities you would use for the various parts of the project.	
5.5	Please provide the equipment list of production and inspection, Format refer to Appendix 2.	
5.6	*Technical requirements shall meet our relevant technical requirements documents attached. (Yes or No)	
<b>6</b>	<b>PROJECT SPECIFIC OUTPUT, CAPACITY, ABILITY</b>	
6.1	Please specify estimated average capacity per month for manufacturing and delivery of the product.	
6.2	What is the available capacity (i.e. not yet booked) of the Applicant for the product in Year 2023?	
6.3	According to your present workload what is the approximate time period (in weeks) for the first dispatch after purchase order award (on EXW basis)?	
<b>7</b>	<b>EXPERIENCE RECORD AND REFERENCES</b>	
7.1	Please provide similar experience within last three years, Format refer to Appendix 3.	
7.2	Please provide scanned CONTRACT for completed project or LETTER of AWARD for ongoing projects, completion certificate (if any), appreciation letters (if any) etc.	
7.3	Please confirm whether there have been any product quality incidents in the past 5 years. (Yes or No)	
<b>8</b>	<b>RAW MATERIALS</b>	

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NOTE: Please provide documents named by serial number according to each item.

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Item No.	Category / Question	
8.1	Please list the Sub-suppliers of raw materials (Company Name, Country).	
9	<b>SPARE PARTS AND MAINTENANCE</b>	
9.1	Supply list of recommend spare part for the product. (If applicable)	
10	<b>DIVERSE DATA</b>	
10.1	Please confirm that you will provide on-site Services such as provision of re-assembly, supervision of site acceptance, assistance during quality warranty period. (If applicable, Yes or No)	

**APPENDIX 1 List of the Key Personnel**

No.	Title	Name	Years of Experience	Qualification Certificates		Location	Notes
				Name of the Certificate	Certificate No.		

Notes: pls attach the CV & scanned copies of certificates etc.

**APPENDIX 2 List of Main Equipment**

No.	Name of Main Equipment	Brand & Model	Qty.	Status of Equipment	Self-owned (Y/N)	Location of Equipment	Date of Production	Notes

Notes: This format includes equipment of production and inspection, pls attach photos and self-owned certificate etc.



**APPENDIX 3 List of Similar Supplying Experience in Oil and Gas Field**

Client	Contact Information of Client (Email/Phone number)	Location	Years	Name of the Project	Scope of Supply	Status of the Project (Completed / Ongoing)	Bidder's Contract Value	Notes

Notes:

1. Please attach following documents: scanned CONTRACT for completed project or LETTER of AWARD for ongoing projects, completion certificate (if any), appreciation letters (if any) etc.
2. The information of the PROJECT mentioned above may be confirmed by CPP with the assistance of EACOP COMPANY.

SR.NO	LINE NO.	PIPE CLASS	SHORT CODE	COMMODITY CODE	SIZE1 (in)	SIZE2 (in)	DESCRIPTION	QTY	UNIT OF MEASURE	SUPPLY SCOPE	REMARKS
1	PR2-28-VT-VDC1100-N2	B03	ELBO	P9LC34SMBEXST01	2"		90 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
2	PR2-28-VDC1100-N7	B03	ELBO	P9LC34SMBESTD01	4"		90 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
3	PR2-25-VT-VP1100-N4	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
4	PR2-25-VT-VP1200-N4	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
5	PR2-05-3"-ATM-0001-B01	B01	ELBO	P4LC34SMBESTD01	3"		45 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
6	PR2-05-3"-ATM-0001-B01	B01	ELBO	P9LC34SMBESTD01	3"		90 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
7	PR2-28-6"-ATM-0001-B01	B01	ELBO	P4LC34SMBESTD01	6"		45 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
8	PR2-28-6"-ATM-0001-B01	B01	ELBO	P9LC34SMBESTD01	6"		90 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	LINE SIZE HOLD
9	PR2-05-6"-ATM-0002-B01	B01	ELBO	P4LC34SMBESTD01	6"		45 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
10	PR2-05-6"-ATM-0002-B01	B01	ELBO	P9LC34SMBESTD01	6"		90 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
11	PR2-25-12"-HL-0027-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
12	PR2-25-12"-HL-0027-G03HE	G03	ELBO	P9LC64SMBE12001	12"		90 LR ELBOW , BE , SCH 120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	
13	PR2-25-12"-HL-0027-G03HE	G03	OLET	PLWC1B0012GB201	8"	2"	WELDOLET , SCH120 X SCH160 , BE , HDR/BRN , SP-97CS A105N	1	Nos.	CONTRACTOR	
14	PR2-25-12"-HL-0027-G03HE	G03	REDU	PREC64SMBE12001	12"	8"	ECC REDUCER , BE , SCH120 x SCH120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	
15	PR2-28-2"-NG-0001-B03H	B03	ELBO	P9LC34SMBEXST01	2"		90 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	

16	PR2-28-2"-NG-0001-B03H	B03	REDU	PRCC34SMBESBJ01	4"	2"	CONC REDUCER , BE , STD x XS , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	
17	PR2-28-2"-NG-0001-B03H	B03	TEE	PRTC34SMBESBK01	4"	1.5"	RED.TEE , BE , STD x XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
18	PR2-25-2"-ATM-0001-B01	B01	ELBO	P9LC34SMBEXST01	2"		90 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
19	PR2-05-2"-DO-0001-B01	B01	ELBO	P9LC34SMBEXST01	2"		90 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
20	PR2-28-3"-RD-0001-B03HE	B03	ELBO	P4LC34SMBESTD01	3"		45 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
21	PR2-28-3"-RD-0001-B03HE	B03	ELBO	P9LC34SMBESTD01	3"		90 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	LINE SIZE HOLD
22	PR2-28-3"-RD-0001-B03HE	B03	REDU	PRCC34SMBESTD01	6"	4"	CONC REDUCER , BE , STD x STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
23	PR2-25-4"-RD-0001-B03HE	B03	ELBO	P4LC34SMBESTD01	4"		45 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
24	PR2-25-4"-RD-0001-B03HE	B03	ELBO	P9LC34SMBESTD01	4"		90 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	LINE SIZE HOLD
25	PR2-25-4"-RD-0001-B03HE	B03	OLET	PLGC1B15SBKR2MN	4"	1"	FLGD PIPET, CL150 STD X XXS, RF, B16.5 , HDR/BRN , 150MM , MFR STD, B31.3CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
26	PR2-25-4"-RD-0001-B03HE	B03	TEE	PRTC34SMBESBJ01	4"	2"	RED.TEE , BE , STD x XS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
27	PR2-25-4"-RD-0001-B03HE	B03	ELBO	P9LC34SMBEXST01	2"		90 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
28	PR2-25-4"-RD-0002-B03HE	B03	ELBO	P4LC34SMBESTD01	4"		45 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	LINE SIZE HOLD
29	PR2-25-4"-RD-0002-B03HE	B03	ELBO	P9LC34SMBESTD01	4"		90 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS	7	Nos.	CONTRACTOR	LINE SIZE HOLD
30	PR2-25-4"-RD-0002-B03HE	B03	OLET	PLGC1B15SBKR2MN	4"	1"	FLGD PIPET, CL150 STD X XXS, RF, B16.5 , HDR/BRN , 150MM , MFR STD, B31.3CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
31	PR2-25-4"-RD-0002-B03HE	B03	OLET	HOLD	4"	4"	BONNEY LATERAL BW 45DEGA105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD

32	PR2-25-4"-RD-0002-B03HE	B03	REDU	PRCC34SMBESTD01	6"		CONC REDUCER , BE , STD x STD , B16.9CS A234-WPB , SMLS		1 Nos.	CONTRACTOR	LINE SIZE HOLD
33	PR2-25-4"-RD-0002-B03HE	B03	TEE	PRTC34SMBESBJ01	4"	2"	RED.TEE , BE , STD x XS , B16.9CS A234-WPB , SMLS		1 Nos.	CONTRACTOR	LINE SIZE HOLD
34	PR2-25-4"-RD-0002-B03HE	B03	ELBO	P9LC34SMBEXST01	2"		90 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS		1 Nos.	CONTRACTOR	
35	PR2-28-6"-RD-0004-B03HE	B03	ELBO	P4LC34SMBESTD01	6"		45 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS		2 Nos.	CONTRACTOR	LINE SIZE HOLD
36	PR2-28-6"-RD-0004-B03HE	B03	ELBO	P9LC34SMBESTD01	6"		90 LR ELBOW , BE , STD , B16.9CS A234-WPB , SMLS		3 Nos.	CONTRACTOR	LINE SIZE HOLD
37	PR2-28-6"-RD-0004-B03HE	B03	OLET	PLWC1B00SBJB201	6"	2"	WELDOLET , STD X XS , BE , HDR/BRN , SP-97CS A105N		1 Nos.	CONTRACTOR	LINE SIZE HOLD
38	PR2-28-6"-RD-0004-B03HE	B03	OLET	P4AC34SMBESTDMN	6"	6"	BONNEY LATERAL BW 45DEGA105N		2 Nos.	CONTRACTOR	
39	PR2-25-2"-HL-0024-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS		2 Nos.	CONTRACTOR	
40	PR2-25-2"-HL-0024-G06HE	G06	TEE	PTEC34SMBEXXS01	2"	2"	TEE , BE , XXS , B16.9CS A234-WPB , SMLS		1 Nos.	CONTRACTOR	
41	PR2-25-2"-HL-0009-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS		1 Nos.	CONTRACTOR	
42	PR2-25-2"-HL-0023-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS		2 Nos.	CONTRACTOR	
43	PR2-25-2"-HL-0023-G03HE	G03	TEE	PTEC34SMBE16001	2"	2"	TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS		1 Nos.	CONTRACTOR	
44	PR2-25-2"-HL-0022-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS		2 Nos.	CONTRACTOR	
45	PR2-25-12"-HL-0012-G06HE	G06	ELBO	P9LC64SMBE14001	12"		90 LR ELBOW , BE , SCH 140 , B16.9ITCS A420-WPL6 , SMLS		3 Nos.	CONTRACTOR	
46	PR2-25-12"-HL-0012-G06HE	G06	OLET	PLGC4GK114KR4MN	12"	2"	FLGD PIPET , CL1500 SCH140 X XXS , RJ , B16.5 , HDR/BRN , 150MM , MFR STD , B31.3ITCS A350-LF2 CL.1		1 Nos.	CONTRACTOR	
47	PR2-25-12"-HL-0012-G06HE	G06	OLET	PLWC4G0014KB201	12"	2"	WELDOLET , SCH140 X XXS , BE , HDR/BRN , SP-97ITCS A350-LF2 CL.1		3 Nos.	CONTRACTOR	

48	PR2-25-12"-HL-0012-G06HE	G06	REDU	PRECODWXBE12F0B	20"	12"	ECC REDUCER , BE , SCH120 x SCH140 , B16.9 , CVN @ -29C (-20F) CS A860- WPHY60 , WLD 100% X-RAY	1	Nos.	CONTRACTOR	
49	PR2-25-12"-HL-0004-G06HE	G06	ELBO	P9LC64SMBE14001	12"		90 LR ELBOW , BE , SCH 140 , B16.9ITCS A420-WPL6 , SMLS	3	Nos.	CONTRACTOR	
50	PR2-25-12"-HL-0004-G06HE	G06	OLET	PLGC4GK114KR4MN	12"	2"	FLGD PIPET , CL1500 SCH140 X XXS , RJ , B16.5 , HDR/BRN , 150MM , MFR STD , B31.3ITCS A350-LF2 CL.1	1	Nos.	CONTRACTOR	
51	PR2-25-12"-HL-0004-G06HE	G06	OLET	PLWC4G0014KB201	12"	2"	WELDOLET , SCH140 X XXS , BE , HDR/BRN , SP-97ITCS A350-LF2 CL.1	3	Nos.	CONTRACTOR	
52	PR2-25-12"-HL-0004-G06HE	G06	REDU	PRECODWXBE12F0B	20"	12"	ECC REDUCER , BE , SCH120 x SCH140 , B16.9 , CVN @ -29C (-20F) CS A860- WPHY60 , WLD 100% X-RAY	1	Nos.	CONTRACTOR	
53	PR2-25-2"-HL-0019-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	
54	PR2-25-2"-HL-0019-G06HE	G06	TEE	PTEC34SMBEXXS01	2"	2"	TEE , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
55	PR2-25-2"-HL-0008-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
56	PR2-25-2"-HL-0008-G03HE	G03	TEE	PRTC34SMBE16K01	2"	1"	RED.TEE , BE , SCH160 x XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
57	PR2-25-2"-HL-0008-G03HE	G03	TEE	PTEC34SMBE16001	2"	2"	TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
58	PR2-25-2"-HL-0007-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	7	Nos.	CONTRACTOR	LINE SIZE HOLD
59	PR2-25-2"-HL-0007-G03HE	G03	TEE	PTEC34SMBE16001	2"	2"	TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	LINE SIZE HOLD
60	PR2-25-2"-HL-0017-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	6	Nos.	CONTRACTOR	LINE SIZE HOLD
61	PR2-25-2"-HL-0017-G03HE	G03	TEE	PTEC34SMBE16001	2"	2"	TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	LINE SIZE HOLD
62	PR2-25-2"-HL-0006-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	
63	PR2-25-2"-HL-0006-G03HE	G03	TEE	PRTC34SMBE16K01	2"	1"	RED.TEE , BE , SCH160 x XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	

64	PR2-25-2"-HL-0005-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	
65	PR2-25-2"-HL-0005-G03HE	G03	TEE	PRTC34SMBE16K01	2"	1"	RED.TEE , BE , SCH160 x XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
66	PR2-25-2"-HL-0005-G03HE	G03	TEE	PTEC34SMBE16001	2"	2"	TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	
67	PR2-25-2"-HL-0014-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	
68	PR2-25-2"-HL-0014-G03HE	G03	TEE	PRTC34SMBE16K01	2"	1"	RED.TEE , BE , SCH160 x XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
69	PR2-25-2"-HL-0015-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	
70	PR2-25-2"-HL-0015-G03HE	G03	TEE	PTEC34SMBE16001	2"	2"	TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	
71	PR2-25-2"-HL-0012-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	
72	PR2-25-2"-HL-0012-G06HE	G06	TEE	PTEC34SMBEXXS01	2"	2"	TEE , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
73	PR2-28-3"-HL-0012-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	
74	PR2-28-3"-HL-0012-G03HE	G03	ELBO	P9LC34SMBE16001	3"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	
75	PR2-28-3"-HL-0012-G03HE	G03	OLET	PLWC1B0016KB201	3"	1"	WELDOLET , SCH160 X XXS , BE , HDR/BRN , SP-97CS A105N	1	Nos.	CONTRACTOR	
76	PR2-28-3"-HL-0012-G03HE	G03	TEE	PRTC34SMBE16001	3"	2"	RED.TEE , BE , SCH160 x SCH160 , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
77	PR2-28-3"-HL-0006-D06HE	D06	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
78	PR2-28-3"-HL-0006-D06HE	D06	ELBO	P9LC34SMBE16001	3"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	7	Nos.	CONTRACTOR	
79	PR2-28-3"-HL-0006-D06HE	D06	TEE	PRTC34SMBE16001	3"		2 RED.TEE , BE , SCH160 x SCH160 , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	

80	PR2-28-3"-HL-0002-D06HE	D06	TEE	PRTC34SMBE16001	3"	2"	RED.TEE , BE , SCH160 x SCH160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
81	PR2-28-3"-HL-0002-B06HE	B06	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
82	PR2-28-3"-HL-0002-B06HE	B06	ELBO	P9LC34SMBE16001	3"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	7	Nos.	CONTRACTOR	
83	PR2-28-3"-HL-0002-B06HE	B06	TEE	PRTC34SMBE16001	3"	2"	RED.TEE , BE , SCH160 x SCH160 , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
84	PR2-25-2"-HL-0016-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
85	PR2-25-2"-HL-0016-G03HE	G03	TEE	PRTC34SMBE16K01	2"	1"	RED.TEE , BE , SCH160 x XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
86	PR2-25-2"-HL-0016-G03HE	G03	TEE	PTEC34SMBE16001	2"	2"	TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
87	PR2-28-2"-HL-0013-B06HE	B06	ELBO	PPPSEASMBE80S12	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	5	Nos.	CONTRACTOR	
88	PR2-28-2"-HL-0013-B06HE	B06	TEE	PTEC34SMBE16001	2"		2 TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
89	PR2-25-20"-HL-0011-G03HE	G03	ELBO	P9LC34SMBEXXS01	1"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
90	PR2-25-20"-HL-0011-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
91	PR2-25-20"-HL-0011-G03HE	G03	ELBO	P9LC64SMBE12001	12"		90 LR ELBOW , BE , SCH 120 , B16.9ITCS A420-WPL6 , SMLS	2	Nos.	CONTRACTOR	
92	PR2-25-20"-HL-0011-G03HE	G03	ELBO	P4LCODWXBE10035	20"		45 LR ELBOW , BE , SCH 100 , SP 75 , CVN @ -29C (-20F)CS A860-WPHY60 , WLD 100% X-RAY	1	Nos.	CONTRACTOR	
93	PR2-25-20"-HL-0011-G03HE	G03	ELBO	P9LCODWXBE10035	20"		90 LR ELBOW , BE , SCH 100 , SP 75 , CVN @ -29C (-20F)CS A860-WPHY60 , WLD 100% X-RAY	7	Nos.	CONTRACTOR	
94	PR2-25-20"-HL-0011-G03HE	G03	OLET	PLWC1B0012GB201	8"	2"	WELDOLET , SCH120 X SCH160 , BE , HDR/BRN , SP-97CS A105N	2	Nos.	CONTRACTOR	
95	PR2-25-20"-HL-0011-G03HE	G03	OLET	PLGCO7K110KR4ME	20"	1"	FLGD PIPET , CL1500 SCH100 X XXS , RJ , B16.5 , HDR/BRN , 150MM , MFR STD , B31.3 , CVN @ -29C (-20F)CS A694-F60	2	Nos.	CONTRACTOR	

96	PR2-25-20"-HL-0011-G03HE	G03	OLET	PLWCO70010KB22F	20"	1"	WELDOLET , SCH100 x XXS , BE , HDR/BRN , SP-97, CVN @ -29C (-20F)CS A694-F60	1	Nos.	CONTRACTOR	
97	PR2-25-20"-HL-0011-G03HE	G03	OLET	PLWCO70010KB22F	20"	1.5"	WELDOLET , SCH100 x XXS , BE , HDR/BRN , SP-97, CVN @ -29C (-20F)CS A694-F60	1	Nos.	CONTRACTOR	
98	PR2-25-20"-HL-0011-G03HE	G03	OLET	PLWCO70010GB22F	20"	2"	WELDOLET , SCH100 x SCH160 , BE , HDR/BRN , SP-97, CVN @ -29C (-20F)CS A694-F60	5	Nos.	CONTRACTOR	
99	PR2-25-20"-HL-0011-G03HE	G03	OLET	PLWCO70010GB22F	20"	3"	WELDOLET , SCH100 x SCH160 , BE , HDR/BRN , SP-97, CVN @ -29C (-20F)CS A694-F60	1	Nos.	CONTRACTOR	
100	PR2-25-20"-HL-0011-G03HE	G03	REDU	PREC64SMBE12001	12"	8"	ECC REDUCER , BE , SCH120 x SCH120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	
101	PR2-25-20"-HL-0011-G03HE	G03	REDU	PRECODWXBE10E35	20"	12"	ECC REDUCER , BE , SCH100 x SCH120 , SP-75 , CVN @ -29C (-20F)CS A860- WPHY60 , WLD 100% X-RAY	1	Nos.	CONTRACTOR	
102	PR2-25-20"-HL-0011-G03HE	G03	TEE	PRTCODWXBE10E35	20"	12"	RED.TEE , BE , SCH100 x SCH120 , SP-75 , CVN @ -29C (-20F)CS A860- WPHY60 , WLD 100% X-RAY	3	Nos.	CONTRACTOR	
103	PR2-25-20"-HL-0011-G03HE	G03	TEE	PTECODWXBE10035	20"	20"	TEE , BE , SCH 100 , SP-75 , CVN @ -29C (-20F)CS A860-WPHY60 , WLD 100% X-RAY	1	Nos.	CONTRACTOR	
104	PR2-25-20"-HL-0002-G03HE	G03	ELBO	P9LC34SMBEXS01	1"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
105	PR2-25-20"-HL-0002-G03HE	G03	ELBO	P4LCODWXBE10035	20"		45 LR ELBOW , BE , SCH 100, SP 75 , CVN @ -29C (-20F)CS A860-WPHY60 , WLD 100% X-RAY	1	Nos.	CONTRACTOR	
106	PR2-25-20"-HL-0002-G03HE	G03	ELBO	P9LCODWXBE10035	20"		90 LR ELBOW , BE , SCH 100, SP 75 , CVN @ -29C (-20F)CS A860-WPHY60 , WLD 100% X-RAY	7	Nos.	CONTRACTOR	
107	PR2-25-20"-HL-0002-G03HE	G03	OLET	PLGCO7K110KR4ME	20"	1"	FLGD PIPET , CL1500 SCH100 X XXS , RJ, B16.5 , HDR/BRN , 150MM , MFR STD, B31.3 , CVN @ -29C (-20F)CS A694-F60	2	Nos.	CONTRACTOR	
108	PR2-25-20"-HL-0002-G03HE	G03	OLET	PLWCO70010KB22F	20"	1"	WELDOLET , SCH100 x XXS , BE , HDR/BRN , SP-97, CVN @ -29C (-20F)CS A694-F60	1	Nos.	CONTRACTOR	
109	PR2-25-20"-HL-0002-G03HE	G03	OLET	PLGCO7K110KR4ME	20"	1.5"	FLGD PIPET , CL1500 SCH100 X XXS , RJ, B16.5 , HDR/BRN , 150MM , MFR STD, B31.3 , CVN @ -29C (-20F)CS A694-F60	1	Nos.	CONTRACTOR	
110	PR2-25-20"-HL-0002-G03HE	G03	OLET	PLWCO70010GB22F	20"	2"	WELDOLET , SCH100 x SCH160 , BE , HDR/BRN , SP-97, CVN @ -29C (-20F)CS A694-F60	6	Nos.	CONTRACTOR	
111	PR2-25-20"-HL-0002-G03HE	G03	REDU	PRECODWXBE10E35	20"	12"	ECC REDUCER , BE , SCH100 x SCH120 , SP-75 , CVN @ -29C (-20F)CS A860- WPHY60 , WLD 100% X-RAY	1	Nos.	CONTRACTOR	



112	PR2-25-20"-HL-0002-G03HE	G03	TEE	PRTCODWXBE10E35	20"	12"	RED.TEE , BE , SCH100 x SCH120 , SP-75 , CVN @ -29C (-20F)CS A860- WPHY60 , WLD 100% X-RAY	3	Nos.	CONTRACTOR	
113	PR2-25-20"-HL-0002-G03HE	G03	TEE	PTECODWXBE10035	20"	20"	TEE , BE , SCH 100 , SP-75 , CVN @ -29C (-20F)CS A860-WPHY60 , WLD 100% X-RAY	1	Nos.	CONTRACTOR	
114	PR2-25-12"-HL-0026-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
115	PR2-25-12"-HL-0026-G03HE	G03	ELBO	P9LC64SMBE12001	12"		90 LR ELBOW , BE , SCH 120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	
116	PR2-25-12"-HL-0026-G03HE	G03	OLET	PLWC1B0012GB201	8"	2"	WELDOLET , SCH120 X SCH160 , BE , HDR/BRN , SP-97CS A105N	1	Nos.	CONTRACTOR	
117	PR2-25-12"-HL-0026-G03HE	G03	REDU	PREC64SMBE12001	12"	8"	ECC REDUCER , BE , SCH120 x SCH120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	
118	PR2-25-12"-HL-0029-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
119	PR2-25-12"-HL-0029-G03HE	G03	ELBO	P9LC64SMBE12001	12"		90 LR ELBOW , BE , SCH 120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	
120	PR2-25-12"-HL-0029-G03HE	G03	OLET	PLWC1B0012GB201	8"	2"	WELDOLET , SCH120 X SCH160 , BE , HDR/BRN , SP-97CS A105N	2	Nos.	CONTRACTOR	
121	PR2-25-12"-HL-0029-G03HE	G03	REDU	PREC64SMBE12001	12"	8"	ECC REDUCER , BE , SCH120 x SCH120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	
122	PR2-25-4"-CD-0012-G06HE	G06	ELBO	P9LC34SMBEXXS01	4"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
123	PR2-25-2"-CD-0002-B06HE	B06	ELBO	P4LC34SMBE16001	2"		45 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	SAMPLE CONNECTION HOLD
124	PR2-25-2"-CD-0002-B06HE	B06	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	5	Nos.	CONTRACTOR	SAMPLE CONNECTION HOLD
125	PR2-25-2"-CD-0002-B06HE	B06	REDU	PRCC34SMBE16001	3"	2"	CONC REDUCER , BE , SCH160 x SCH160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	SAMPLE CONNECTION HOLD
126	PR2-25-2"-CD-0002-B06HE	B06	REDU	PRCC34SMBEXBG01	6"	3"	CONC REDUCER , BE , XS x SCH160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	SAMPLE CONNECTION HOLD
127	PR2-25-2"-CD-0002-B06HE	B06	TEE	PTEC34SMBE16001	2"	2"	TEE , BE , SCH 160 , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	SAMPLE CONNECTION HOLD

128	PR2-25-4"-CD-0001-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	2	Nos.	CONTRACTOR	
129	PR2-25-4"-CD-0001-G06HE	G06	TEE	PRTC34SMBEXXS01	4"	2"	RED.TEE , BE , XXS x XXS , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	
130	PR2-25-4"-CD-0001-G06HE	G06	TEE	PTEC34SMBEXXS01	4"	4"	TEE , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
131	PR2-25-2"-CD-0011-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
132	PR2-25-2"-CD-0010-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
133	PR2-25-4"-CD-0003-B06HE	B06	ELBO	P4LC34SMBE12001	4"		45 LR ELBOW , BE , SCH 120 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
134	PR2-25-4"-CD-0003-B06HE	B06	ELBO	P9LC34SMBE12001	4"		90 LR ELBOW , BE , SCH 120 , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
135	PR2-25-4"-CD-0003-B06HE	B06	REDU	PRCC34SMBEXBE01	6"	4"	CONC REDUCER , BE , XS x SCH120 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
136	PR2-25-4"-CD-0008-G06HE	G06	ELBO	P9LC34SMBEXXS01	4"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
137	PR2-25-4"-CD-0008-G06HE	G06	TEE	PRTC34SMBEXXS01	4"	2"	RED.TEE , BE , XXS x XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
138	PR2-25-4"-CD-0006-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
139	PR2-25-4"-CD-0006-G06HE	G06	TEE	PRTC34SMBEXXS01	4"	2"	RED.TEE , BE , XXS x XXS , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
140	PR2-25-4"-CD-0006-G06HE	G06	TEE	PTEC34SMBEXXS01	4"	4"	TEE , BE , XXS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
141	PR2-25-2"-CD-0013-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
142	PR2-25-2"-CD-0014-G06HE	G06	ELBO	P9LC34SMBEXXS01	2"		90 LR ELBOW , BE , XXS , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
143	PR2-25-4"-CD-0007-B06HE	B06	ELBO	P4LC34SMBE12001	4"		45 LR ELBOW , BE , SCH 120 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	

144	PR2-25-4"-CD-0007-B06HE	B06	ELBO	P9LC34SMBE12001	4"		90 LR ELBOW , BE , SCH 120 , B16.9CS A234-WPB , SMLS	3	Nos.	CONTRACTOR	
145	PR2-25-4"-CD-0007-B06HE	B06	REDU	PRCC34SMBEXBE01	6"	4"	CONC REDUCER , BE , XS x SCH120 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
146	PR2-28-6"-CD-0003-B06HE	B06	ELBO	P4LC34SMBEXST01	6"		45 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS	4	Nos.	CONTRACTOR	
147	PR2-28-6"-CD-0003-B06HE	B06	ELBO	P9LC34SMBEXST01	6"		90 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
148	PR2-28-6"-CD-0003-B06HE	B06	OLET	P4AC34SMBEXST01	6"	6"	BONNEY LATERAL BW 45DEGA105N	5	Nos.	CONTRACTOR	
149	PR2-25-2"-ATM-0002-B01	B01	ELBO	P9LC34SMBEXST01	2"		90 LR ELBOW , BE , XS , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
150	PR2-25-12"-HL-0028-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
151	PR2-25-12"-HL-0028-G03HE	G03	ELBO	P9LC64SMBE12001	12"		90 LR ELBOW , BE , SCH 120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	
152	PR2-25-12"-HL-0028-G03HE	G03	OLET	PLWC1B0012GB201	8"	2"	WELDOLET , SCH120 X SCH160 , BE , HDR/BRN , SP-97CS A105N	1	Nos.	CONTRACTOR	
153	PR2-25-12"-HL-0028-G03HE	G03	REDU	PREC64SMBE12001	12"	8"	ECC REDUCER , BE , SCH120 x SCH120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
154	PR2-25-12"-HL-0025-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
155	PR2-25-12"-HL-0025-G03HE	G03	ELBO	P9LC64SMBE12001	12"		90 LR ELBOW , BE , SCH 120 , B16.9ITCS A420-WPL6 , SMLS	2	Nos.	CONTRACTOR	
156	PR2-25-12"-HL-0025-G03HE	G03	OLET	PLWC1B0012GB201	8"	2"	WELDOLET , SCH120 X SCH160 , BE , HDR/BRN , SP-97CS A105N	1	Nos.	CONTRACTOR	
157	PR2-25-12"-HL-0025-G03HE	G03	REDU	PREC64SMBE12001	12"	8"	ECC REDUCER , BE , SCH120 x SCH120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
158	PR2-25-12"-HL-0030-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS	1	Nos.	CONTRACTOR	
159	PR2-25-12"-HL-0030-G03HE	G03	ELBO	P9LC64SMBE12001	12"		90 LR ELBOW , BE , SCH 120 , B16.9ITCS A420-WPL6 , SMLS	1	Nos.	CONTRACTOR	

160	PR2-25-12"-HL-0030-G03HE	G03	OLET	PLWC1B0012GB201	8"	2"	WELDOLET , SCH120 X SCH160 , BE , HDR/BRN , SP-97CS A105N		2 Nos.	CONTRACTOR	
161	PR2-25-12"-HL-0030-G03HE	G03	REDU	PREC64SMBE12001	12"	8"	ECC REDUCER , BE , SCH120 x SCH120 , B16.9ITCS A420-WPL6 , SMLS		1 Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
162	PR2-25-12"-HL-0031-G03HE	G03	ELBO	P9LC34SMBE16001	2"		90 LR ELBOW , BE , SCH 160 , B16.9CS A234-WPB , SMLS		1 Nos.	CONTRACTOR	
163	PR2-25-12"-HL-0031-G03HE	G03	ELBO	P9LC64SMBE12001	12"		90 LR ELBOW , BE , SCH 120 , B16.9ITCS A420-WPL6 , SMLS		1 Nos.	CONTRACTOR	
164	PR2-25-12"-HL-0031-G03HE	G03	OLET	PLWC1B0012GB201	8"	2"	WELDOLET , SCH120 X SCH160 , BE , HDR/BRN , SP-97CS A105N		2 Nos.	CONTRACTOR	
165	PR2-25-12"-HL-0031-G03HE	G03	REDU	PREC64SMBE12001	12"	8"	ECC REDUCER , BE , SCH120 x SCH120 , B16.9ITCS A420-WPL6 , SMLS		1 Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD