



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

- The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
- All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02083-01	02083	NA	Manhole & Lift Station rehabilitation using Fiberglass Liner	Containment Solutions Inc	Manhole Liner ¹	NA
COHWW02083-02	02083	NA	Manhole & Lift Station rehabilitation using Fiberglass Liner	LF Manufacturer	Manhole Liner ¹	NA
COHWW02091-01	02091	AASHTO M306, ASTM G154, ASTM D790, ASTM C1028, ASTM D256	Composite Manhole Cover	Composite Access Products, L.P.	Cap One	24", 30"
COHWW02426-01	02426	AWWA C105 C110,C115 C150,C151 C153	Ductile Iron Pipe	Griffin Pipe Products Inc.	Push On / Mechanical Joint Pipe Restrained Joint Pipe	3"-48"
COHWW02427-01	02427	C76	PVC Liner cast in Reinforced Concrete Pipe, minimum Class III	Ameron International	T-Lock	30"-144"
COHWW02441-01	02441	D3262 D4161	Tunneling using Fiberglass Pipe	Hobas	Hobas (D2997)	12"-144"
COHWW02441-02	02441	C1028	Tunneling using Extra Strength Clay Pipe	Denlok	Denlok NS / NC	12"-36"
COHWW02441-03	02441	C1028	Tunneling using Extra Strength Clay Pipe	Logan Clay Products LLC	No-Dig	12"-36"
COHWW02447-01	02447	D3262 D4161	Augering with or without casing using Fiberglass Pipe	Hobas	Hobas (D2997)	12"-144"
COHWW02447-02	02447	C1028	Augering with or without casing using Extra Strength Clay Pipe	Denlok	Denlok NS / NC	12"-36"
COHWW02447-03	02447	C1028	Augering with or without casing using Extra Strength Clay Pipe	Logan Clay Products LLC	No-Dig	12"-36"
COHWW02447-04	02447	C1028	Augering with or without casing using Fiberglass Pipe	Ameron International	Bondstrand Pipe	2"-144"
COHWW02447-05	02447	D3262 D4161 D5685	Force main using Fiberglass Pipe ⁵	Ameron International	Bondstrand 3200 (D2996) ⁶	2"-144"
COHWW02501-01	02501	(C110)	Pipe restrainers	Star Pipe Products	PVC Stargrip Series 4000, 3000, 1000,1000c,1100c	NA
COHWW02501-02	02501	A746 D1248	Gravity direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	American Cast Iron Pipe Co	American Ductile Iron Pipe	8"-54"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

- The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
- All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02501-03	02501	A746 D1248	Gravity direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	McWane Cast Iron Pipe Co	McWane Ductile Iron Pipe	8"-54"
COHWW02501-04	02501	A746 D1248	Gravity direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	US Pipe	Tyton Joint Pipe	8"-54"
COHWW02501-05	02501	A746 D1248	Gravity augering with or without casing using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	American Cast Iron Pipe Co	American Ductile Iron Pipe	12"-60"
COHWW02501-06	02501	A746 D1248	Gravity augering with or without casing using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	US Pipe	TR Flex	12"-60"
COHWW02501-07	02501	AWWA C105 C110,C115 C150,C151 C153	Ductile Iron Pipe	Griffin Pipe Products Inc.	Push On / Mechanical Joint Pipe Restrained Joint Pipe	3"-48"
COHWW02501-08	02501	D1248 (C115 C150/151)	Force main direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining ⁵	American Cast Iron Pipe Co	American Ductile Iron Pipe	4"-54"
COHWW02501-09	02501	D1248 (C115 C150/151)	Force main direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining ⁵	US Pipe	TR Flex	4"-54"
COHWW02504-01	02504	D3262 D4161	Tunneling using Fiberglass Pipe	Hobas	Hobas (D2997)	12"-144"
COHWW02504-02	02504	D3262 D4161	Augering with or without casing using Fiberglass Pipe	Hobas	Hobas (D2997)	12"-144"
COHWW02504-03	02504		Gravity direct bury using Fiberglass Pipe	Hobas	Hobas (D2997)	8"-144"
COHWW02504-04	02504	D3262 D4161 D5685	Gravity direct bury using Fiberglass Pipe	Ameron International	Bondstrand pipe	2"-144"
COHWW02504-05	02504	D3262 D4161 D5685	Force main using Fiberglass Pipe ⁵	Hobas	Hobas (D2997)	8"-144"
COHWW02504-06	02504	D3261	Gravity direct bury using Fiberglass Pipe/	Hobas	Hobas ⁷	8"-144"
COHWW02504-07	02504		Fiberglass Reinforced Pipe	USCPS, Inc.	Flowtite	12"-96"
COHWW02505-01	02505	F894	Weholite Profile Wall Pipe	KWH Pipe	Weholite Profile Wall Pipe	18"-120"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

1. The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
2. All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02505-02	02505	F714	Gravity direct bury using Solid Wall HDPE	Chevron Phillips	Driscoplex 4100	8"-10"
COHWW02505-03	02505	F714	Gravity direct bury using Solid Wall HDPE	Chevron Phillips	Driscoplex 4100	12"-48"
COHWW02505-04	02505	F894	Gravity direct bury using Profile Wall Polyethylene	Industrial Pipe Fittings	Spiral HDPE Pipe ²	18"-120"
COHWW02505-05	02505	F714	Sliplining using Solid Wall Poly	Chevron Phillips	Driscoplex 4100 ⁷	8"-48"
COHWW02505-06	02505	F714	Sliplining using Solid Wall Poly	KWH Pipe	Weholite ⁷	14"-63"
COHWW02505-07	02505	F714	Sliplining using Solid Wall Poly	Rinker Poly Pipe	Poly Pipe ⁷	8"-48"
COHWW02505-08	02505	F894	Sliplining using Polyethylene Profile Wall	Industrial Pipe Fittings	Spirolite HDPE Pipe/APS PE Pipe ⁷	18"-120"
COHWW02505-09	02505	AWWA C906, ASTM D3035	Soid Wall HDPE	WL Plastics Corp.	Camcore™ DIPS	4"-18"
COHWW02505-10	02505	AWWA C906, ASTM D3035	Soid Wall HDPE	WL Plastics Corp.	Camcore™ IPS	4"-18"
COHWW02506-11	02505	F714	Force main using HDPE ⁵	Chevron Phillips	Driscoplex 4100	3"-48"
COHWW02506-12	02505	(C906)	Force main using HDPE ⁵	Chevron Phillips	Driscoplex 4100	4"-63"
COHWW02506-05	02506	F679 D3034	PVC Gravity Sewer pipe/ PVC Sewer Force Mains	Northern Pipe Products Inc.	PVC Gravity Sewer Pipe/ PVC Sewer Force Mains	NA
COHWW02506-06	02506	D3034	Gravity direct bury using Solid Wall PVC	Certain Teed	Apache	4"-10"
COHWW02506-07	02506	D3034	Gravity direct bury using Solid Wall PVC	Diamond Plastics	SDR 26	4"-10"
COHWW02506-08	02506	D3034	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Ring Tite	4"-10"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

1. The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
2. All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02506-09	02506	D3034	Gravity direct bury using Solid Wall PVC	North American Pipe	SDR 26	4"-10"
COHWW02506-10	02506	D3034	Gravity direct bury using Solid Wall PVC	Certain Teed	Apache	12"-15"
COHWW02506-11	02506	D3034	Gravity direct bury using Solid Wall PVC	Diamond Plastics	SDR35	12"-15"
COHWW02506-12	02506	D3034	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Ring Tite	12"-15"
COHWW02506-13	02506	D3034	Gravity direct bury using Solid Wall PVC	North American Pipe	SDR35	12"-15"
COHWW02506-14	02506	D3034	Gravity direct bury using Solid Wall PVC	Royal Building Products	Royal Seal PVC Sewer Pipe D3034	6"-10"
COHWW02506-15	02506	D3034	Gravity direct bury using Solid Wall PVC	Royal Building Products	Royal Seal PVC Sewer Pipe D3034	12"-15"
COHWW02506-16	02506	F679	Gravity direct bury using Solid Wall PVC	Diamond Plastics	F679	18"-36"
COHWW02506-17	02506	F679	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Ring Tite	18"-36"
COHWW02506-18	02506	F679	Gravity direct bury using Solid Wall PVC	North American Pipe	F679	18"-36"
COHWW02506-19	02506	F679	Gravity direct bury using Solid Wall PVC	Royal Building Products	Royal Seal PVC Sewer Pipe F679	18"-27"
COHWW02506-20	02506	F679	Gravity direct bury using Solid Wall PVC	Royal Building Products	Royal Seal PVC Sewer Pipe F679	18"-27"
COHWW02506-21	02506	(C900)	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Blue Brute (C900)	4"-12"
COHWW02506-22	02506	(C905)	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Big Blue (C905)	14"-20"
COHWW02506-30	02506	(C900)	Force main using Solid Wall PVC ⁵	Certain Teed	Apache	4"-12"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

1. The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
2. All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02506-31	02506	(C900)	Force main using Solid Wall PVC ⁵	Diamond Plastics	C900	4"-12"
COHWW02506-32	02506	(C900)	Force main using Solid Wall PVC ⁵	J-M Eagle Manufacturing	Blue Brute (C900)	4"-12"
COHWW02506-34	02506	(C905)	Force main using Solid Wall PVC ⁵	Diamond Plastics	C905	14"-20"
COHWW02506-35	02506	(C905)	Force main using Solid Wall PVC ⁵	J-M Eagle Manufacturing	Big Blue (C905)	14"-20"
COHWW02506-38	02506	ASTM D 3034, F-679	PVC Gravity Sewer/ PVC Sewer Force Mains	Vinyltech	ASTM D3034 & F679, SDR 35 & 26	4"-24"
COHWW02506-39	02506	ASTM D 3034, F-679	PVC Gravity Sewer Pipe	PipeLife Jet Stream, Inc.	SDR 35 & 26	4"-24"
COHWW02506-40	02506	C900	Force main using Solid Wall PVC ⁵	PipeLife Jet Stream, Inc.	C900-16 DR14 & DR18	4"-20"
COHWW02506-41	02506	C900	Force main using Solid Wall PVC ⁵	NAPCO Pipe & Fitting	C900/IB DR14 & DR18	14"-20"
COHWW02506-42	02506	C900	Force main using Solid Wall PVC ⁵	NAPCO Pipe & Fitting	Certa-Lok RJ	4"-20"
COHWW02506-43	02506	C900	PVC Gravity Sewer/ PVC Sewer Force Mains ⁵	NAPCO Pipe & Fitting	C900/Certa-Lok RJIB DR14 & DR18	4"-16"
COHWW02506-44	02506	C900	PVC Gravity Sanitary Sewer Pipe Only	Westlake Pipe & Fittings	AWWA C900/RJIB Certa-Lok	18"
COHWW02508-01	02508	C1028	Tunneling using Extra Strength Clay Pipe	Denlok	Denlok NS / NC	12"-36"
COHWW02508-02	02508	C1028	Tunneling using Extra Strength Clay Pipe	Logan Clay Products LLC	No-Dig	12"-36"
COHWW02508-03	02508	C1028	Augering with or without casing using Extra Strength Clay Pipe	Denlok	Denlok NS / NC	12"-36"
COHWW02508-04	02508	C1028	Augering with or without casing using Extra Strength Clay Pipe	Logan Clay Products LLC	No-Dig	12"-36"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

- The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
- All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02508-05	02508	C700	Gravity direct bury using Extra Strength Clay Pipe	Denlok	Denlok NS / NC	12"-36"
COHWW02508-06	02508	C700	Gravity direct bury using Extra Strength Clay Pipe	Logan Clay Products LLC	JCP / Band Seal	12"-36"
COHWW02531-01	02531	F679 D3034	PVC Gravity Sewer Pipe/ PVC Sewer Force Mains	Northern Pipe Products Inc.	PVC Gravity Sewer Pipe/ PVC Sewer Force Mains	NA
COHWW02531-02	02531		Gravity direct bury using Fiberglass Pipe	Hobas	Hobas (D2997)	8"-144"
COHWW02531-03	02531	A746 D1248	Gravity direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	American Cast Iron Pipe Co	American Ductile Iron Pipe	8"-54"
COHWW02531-04	02531	A746 D1248	Gravity direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	McWane Cast Iron Pipe Co	McWane Ductile Iron Pipe	8"-54"
COHWW02531-05	02531	A746 D1248	Gravity direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	US Pipe	Tyton Joint Pipe	8"-54"
COHWW02531-06	02531	A746 D1248	Gravity augering with or without casing using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	American Cast Iron Pipe Co	American Ductile Iron Pipe	12"-60"
COHWW02531-07	02531	A746 D1248	Gravity augering with or without casing using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining	US Pipe	TR Flex	12"-60"
COHWW02531-08	02531	F714	Gravity direct bury using Solid Wall HDPE	Chevron Phillips	Driscoplex 4100	8"-10"
COHWW02531-09	02531	F714	Gravity direct bury using Solid Wall HDPE	Chevron Phillips	Driscoplex 4100	12"-48"
COHWW02531-10	02531	F894	Gravity direct bury using Profile Wall Polyethylene	Industrial Pipe Fittings	Spiral HDPE Pipe ²	18"-120"
COHWW02531-11	02531	D3034	Gravity direct bury using Solid Wall PVC	Certain Teed	Apache	4"-10"
COHWW02531-12	02531	D3034	Gravity direct bury using Solid Wall PVC	Diamond Plastics	SDR 26	4"-10"
COHWW02531-13	02531	D3034	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Ring Tite	4"-10"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

1. The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
2. All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02531-14	02531	D3034	Gravity direct bury using Solid Wall PVC	North American Pipe	SDR 26	4"-10"
COHWW02531-15	02531	D3034	Gravity direct bury using Solid Wall PVC	Certain Teed	Apache	12"-15"
COHWW02531-16	02531	D3034	Gravity direct bury using Solid Wall PVC	Diamond Plastics	SDR35	12"-15"
COHWW02531-17	02531	D3034	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Ring Tite	12"-15"
COHWW02531-18	02531	D3034	Gravity direct bury using Solid Wall PVC	North American Pipe	SDR35	12"-15"
COHWW02531-19	02531	F679	Gravity direct bury using Solid Wall PVC	Diamond Plastics	F679	18"-36"
COHWW02531-20	02531	D3034	Gravity direct bury using Solid Wall PVC	Royal Building Products	Royal Seal PVC Sewer Pipe D3034	6"-10"
COHWW02531-21	02531	D3034	Gravity direct bury using Solid Wall PVC	Royal Building Products	Royal Seal PVC Sewer Pipe D3034	12"-15"
COHWW02531-22	02531	F679	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Ring Tite	18"-36"
COHWW02531-23	02531	F679	Gravity direct bury using Solid Wall PVC	North American Pipe	F679	18"-36"
COHWW02531-24	02506	F679	Gravity direct bury using Solid Wall PVC	Royal Building Products	Royal Seal PVC Sewer Pipe F679	18"-27"
COHWW02531-25	02506	F679	Gravity direct bury using Solid Wall PVC	Royal Building Products	Royal Seal PVC Sewer Pipe F679	18"-27"
COHWW02531-26	02531	(C900)	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Blue Brute (C900)	4"-12"
COHWW02531-27	02531	(C905)	Gravity direct bury using Solid Wall PVC	J-M Eagle Manufacturing	Big Blue (C905)	14"-20"
COHWW02531-34	02531	C700	Gravity direct bury using Extra Strength Clay Pipe	Denlok	Denlok NS / NC	12"-36"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

- The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
- All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02531-35	02531	C700	Gravity direct bury using Extra Strength Clay Pipe	Logan Clay Products LLC	JCP / Band Seal	12"-36"
COHWW02531-36	02531	AWWA C105 C110,C115 C150,C151 C153	Ductile Iron Pipe	Griffin Pipe Products Inc.	Push On / Mechanical Joint Pipe Restrained Joint Pipe	3"-48"
COHWW02531-37	02531	D3262 D4161 D5685	Gravity direct bury using Fiberglass Pipe	Ameron International	Bondstrand pipe	2"-144"
COHWW02531-38	02531	D3262 D3681 D3754 D4161 F477	Gravity direct bury using Fiberglass Pipe	USCPS, Inc.	Flowtite	12"-96"
COHWW02531-39	02531	AWWA C906, ASTM D3035	Gravity direct bury using Soid Wall HDPE	WL Plastics Corp.	Camcore™ DIPS	4"-18"
COHWW02531-40	02531	AWWA C906, ASTM D3035	Gravity direct bury using Soid Wall HDPE	WL Plastics Corp.	Camcore™ IPS	4"-18"
COHWW02531-41	02531	C900	Gravity direct bury using solid Wall PVC	NAPCO Pipe & Fitting	Certa-Lok RJ	4"-20"
COHWW02532-01	02532	AWWA C105 C110,C115 C150,C151 C153	Ductile Iron Pipe	Griffin Pipe Products Inc.	Push On / Mechanical Joint Pipe Restrained Joint Pipe	3"-48"
COHWW02532-02	02532	D3262 D4161 D5685	Force main using Fiberglass Pipe ⁵	Ameron International	Bondstrand 3200 (D2996) ⁶	2"-16"
COHWW02532-03	02532	D3262 D4161 D5685	Force main using Fiberglass Pipe ⁵	Hobas	Hobas (D2997)	8"-144"
COHWW02532-04	02532	F714	Force main using HDPE ⁵	Chevron Phillips	Driscoplex 4100	3"-48"
COHWW02532-05	02532	(C900)	Force main using Solid Wall PVC ⁵	Certain Teed	Apache	4"-12"
COHWW02532-06	02532	(C900)	Force main using Solid Wall PVC ⁵	Diamond Plastics	C900	4"-12"
COHWW02532-07	02532	(C900)	Force main using Solid Wall PVC ⁵	J-M Eagle Manufacturing	Blue Brute (C900)	4"-12"
COHWW02532-09	02532	(C905)	Force main using Solid Wall PVC ⁵	Diamond Plastics	C905	14"-20"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

1. The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
2. All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/TRADE NAME	SIZE/RANGE
COHWW02532-10	02532	(C905)	Force main using Solid Wall PVC ⁵	J-M Eagle Manufacturing	Big Blue (C905)	14"-20"
COHWW02532-12	02532	(C906)	Force main using HDPE ⁵	Chevron Phillips	Driscoplex 4100	4"-63"
COHWW02532-13	02532	D3262 D4161 D5685	Force main using Fiberglass Pipe ⁵	Ameron International	Bondstrand pipe	2"-144"
COHWW02532-14	02532	D3262 D3681 D3754 D4161 F477	Force main using Fiberglass Pipe ⁵	USCPS, Inc.	Flowtite	12"-96"
COHWW02532-15	02532	ASTM D 3034, F-679	PVC Sewer Force Mains	Vinyltech	ASTM D3034 & F679, SDR 35 & 26	4"-24"
COHWW02532-16	02532	AWWA C906, ASTM D3035	Force Main using Solid Wall HDPE	WL Plastics Corp.	Camcore™ DIPS	4"-18"
COHWW02532-17	02532	AWWA C906, ASTM D3035	Force Main using Solid Wall HDPE	WL Plastics Corp.	Camcore™ IPS	4"-18"
COHWW02532-18	02532	C900	Force main using Solid Wall PVC ⁵	PipeLife Jet Stream, Inc.	C900-16 DR14 & DR18	4"-20"
COHWW02532-19	02532	C900	Force main using Solid Wall PVC ⁵	NAPCO Pipe & Fitting	C900/IB DR14 & DR18	14"-20"
COHWW02532-20	02532	C900	Force main using Solid Wall PVC ⁵	NAPCO Pipe & Fitting	Certa-Lok RJ	4"-20"
COHWW02534-01	02534	NA	PVC Couplings	JOINTS, INC.	Calder Repair Couplings (CRC) Shielded Repair	NA
COHWW02535-01	02535	D1248 (C115 C150/151)	Force main direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining ⁵	American Cast Iron Pipe Co	American Ductile Iron Pipe	4"-54"
COHWW02535-02	02535	D1248 (C115 C150/151)	Force main direct bury using Ductile Iron w/Polyethylene, Polyurethane, or Ceramic Epoxy Lining ⁵	US Pipe	TR Flex	4"-54"
COHWW02550-01	02550	D3262	Sliplining using Fiberglass Pipe	Hobas	Hobas ⁷	8"-144"
COHWW02550-02	02550	F714	Sliplining using Solid Wall Poly	Chevron Phillips	Driscoplex 4100 ⁷	8"-48"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

1. The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
2. All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02550-03	02550	F714	Sliplining using Solid Wall Poly	KWH Pipe	Weholite ⁷	14"-63"
COHWW02550-04	02550	F714	Sliplining using Solid Wall Poly	Rinker Poly Pipe	Poly Pipe ⁷	8"-48"
COHWW02550-05	02550	F894	Sliplining using Polyethylene Profile Wall	Industrial Pipe Fittings	Spirolite HDPE Pipe/APS PE Pipe ⁷	18"-120"
COHWW02550-06	02550	F794	Sliplining using Profile Wall PVC	Lamson Vylon Pipe	Vylon PVC Slipliner ⁷	21"-48"
COHWW02550-07	02550	D3262 D4161 D5685	Sliplining using Fiberglass Pipe	Ameron International	Bondstrand Pipe	2"-144"
COHWW02550-08	02550	D3262 D3681 D3754 D4161 F477	Sliplining using Fiberglass Pipe	USCPS, Inc.	Flowtite	12"-96"
COHWW02554-01	02554	C1107	Grout for sliplining	Elastizell	Elastizell EF	NA
COHWW02554-02	02554	C1107	Grout for sliplining	Haliburton LG3	ElastiCem / Tuned Light XL	NA
COHWW02554-03	02554	C1107	Grout for sliplining	Pacific International Grout Co	PACFILL	NA
COHWW02555-01	02555	F2414	Manhole & Lift Station rehabilitation using Cementitious Structural Liner ⁸	APM Permaform	Permacast CR-9000	NA
COHWW02555-02	02555	F2414	Manhole & Lift Station rehabilitation using Cementitious Structural Liner ⁸	APM Permaform	Permacast MS-10,000 ⁹	NA
COHWW02555-03	02555	F2414	Manhole & Lift Station rehabilitation using Cementitious Structural Liner ⁸	BASF Construction Chemicals	Emaco S88C	NA
COHWW02555-04	02555	F2414	Manhole & Lift Station rehabilitation using Cementitious Structural Liner ⁸	Quadex	QM-1S	NA
COHWW02555-05	02555	F2414	Manhole & Lift Station rehabilitation using Cementitious Structural Liner ⁸	SCM	Reliner MSP	NA
COHWW02555-06	02555	F2414	Manhole & Lift Station rehabilitation using Cementitious Structural Liner ⁸	The Strong Co, Inc	Strong Seal MS-2C	NA

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

- The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
- All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02555-07	02555	F2414	Manhole & Lift Station rehabilitation using Cast In Place Liner	McNeil Technologies, Inc. / Infrastructure Rehabilitation USA, Inc.	The Triplex Liner System	NA
COHWW02555-08	02555	C109,293,882, 496,267 aashtoT277	Manhole Rehabilitation Liner (Silica Fume Base Mortar)	WBE Dorcas, Inc.	Dinjer CMS 10-K	NA
COHWW02555-09	02555	F2551 C109	Manhole & Lift Station Rehabilitation (Structural Repair Mortar)	Southern Trenchless Solutions LLC	Manhole Mortar	NA
COHWW02555-10	02555	C109,348,882,157,496,469,666,642	Structural Repair Material and Protective Coating	Kerneos, Inc.	Sewpercoat PG	NA
COHWW02555-11	02555	C109, 293, 496, 882, 596, 1202	Sprayable Restoration Mortar	AW Cook Cement	Silitac MSM Microsilica Mortar	NA
COHWW02555-12	02555	C109, 293, 496, 882, 596, 1202	Sprayable Restoration Mortar	Madewell Products Corporation	Mainstay ML-72 Sprayable Microsilica Restoration Mortar	NA
COHWW02556-01	02556	F1743 F1216 D5813	Cured In Place Pipe	Inliner Technologies	Inliner	4"-96"
COHWW02556-02	02556	F1743 F1216 D5813	Cured In Place Pipe	Insituform Technologies Inc	Insituform CIPP	4"-96"
COHWW02556-03	02556	F1743 F1216 D5813	Cured In Place Pipe	Masterliner Inc	Masterliner CIPP	4"-96"
COHWW02556-04	02556	F1743 F1216 D5813	Cured In Place Pipe	National Envirotech Group LLC	National Liner	4"-96"
COHWW02556-05	02556	F1743 F1216 D5813	Cured In Place Pipe	Applied Felts	Novapipe CIPP	4"-96"
COHWW02556-06	02556	F1216	Cured In Place Pipe Service Re-connection	Insituform Technologies Inc	Insituform	8"-12"
COHWW02556-07	2556	F1743 F1216 D5813	Cured In Place Pipe	FerraTex Solutions	FerraTex CIPP	6"-72"
COHWW02557-02	02557	NA	Fold & Form Pipe	Poly Pipe	U Liner	6"-72"
COHWW02557-10	02557	NA	Fold & Form Pipe	AM Liner East Inc	AM Liner	6"-72"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

- The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
- All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW02571-01	02571	NA	Pipe Bursting/Crushing	EarthTool Company LLC	Wermeer Hammerhead Mole	6"-72"
COHWW02571-02	02571	NA	Pipe Bursting/Crushing	Miller Pipeline Corp	Xpandit	6"-72"
COHWW02571-03	02571	NA	Pipe Bursting/Crushing	TT Technology	Grundocrack System	6"-72"
COHWW02571-04	02571	NA	Pipe Bursting/Crushing	Utility Construction Management	Advantica Pipebursting	6"-72"
COHWW02571-05	02571	NA	Pipe Bursting Systems	Pimcorp.	Pipe Bursting Systems	NA
COHWW02571-06	02571	NA	Pipe Bursting Systems	TTS Northwest Company/ Utility Construction Management	Pipe Bursting Systems	NA
COHWW02571-07	02571	AWWA C906, ASTM D3035	Force Main using Soid Wall HDPE	WL Plastics Corp.	Camcore™ DIPS	4"-18"
COHWW02571-08	02571	AWWA C906, ASTM D3035	Force Main using Soid Wall HDPE	WL Plastics Corp.	Camcore™ IPS	4"-18"
COHWW02606-01	02606	F794	Sliplining using Profile Wall PVC	Lamson Vylon Pipe	Vylon PVC Slipliner ⁷	21"-48"
COHWW02611-01	02611	C76	PVC Liner cast in Reinforced Concrete Pipe, minimum Class III	Ameron International	T-Lock	30"-144"
COHWW09901-01	09901	NA	Protective Coatings	Sherwin Williams Co	Magnalux 304 Vinyl Ester	NA
COHWW09901-02	09901	(D102)	Protective Coatings	Sherwin Williams Co	DuraPlate UHS	NA
COHWW09901-03	09901	F1697	Pipe Rehabilitation Lining System	Repipe Tx	Expanda 10	6"-30"
COHWW09901-04	09901	F1698	Pipe Rehabilitation Lining System	Danby of North America	Danby Pipe Rehab	48"-144"
COHWW09901-05	09901	NA	Protective Coatings	Sherwin Williams Co	Macropoxy 646	NA

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.



PRE-APPROVED WASTEWATER PRODUCTS

NOTES:

- The City of Houston's (City) pre-approved product list includes products that have been reviewed by Houston Public Works (HPW). The City does not intend to discourage the use of products that are not included on this list. A product that meets the City's technical specifications, and is reviewed by the Engineer of Record, per the City's 00700 document and specification 01330, for a specific project may be allowed on City's projects, even if it is not included in the "Pre-Approved Products List".
- All products (including Pre-Approved Products) are subject to review and approval by the Engineer of Record, per the City's 00700 document and specification 01330, prior to use on City's projects.

REF NO.	COH SPECIFICATION	ASTM (AWWA)	PRODUCT DESCRIPTION	MANUFACTURER	MODEL/ TRADE NAME	SIZE/ RANGE
COHWW09901-06	09901	NA	Protective Coatings	Sherwin Williams Co	Acrolon 218 HS Polyurethane	NA
COHWW09901-07	09901	D638 D790 D695 D4541	Raven 405 Lining System (Protective coating/ Structural Lining)	Raven Lining System	Raven 405	N/A
COHWW09901-08	09901	NA	Protective Coating	Warren Environmental Inc.	Warren Environmental Epoxy Products	N/A
COHWW09901-09	09901	AWWA C213	Plasite 4500 Series (system 106)	Carboline Company	Plasite 4500	N/A
COHWW09901-10	09901	ASTM D2584, D638, D695, D790, D4541/7234 & G20	100% Solids, Isocyanate-Free, Solvent-Free, High Build Epoxy Coating	Quadex, Inc.	Quadex Structure Guard	N/A
COHWW09901-11	09901	ASTM D2584, D638, D695, D790, D4541/7234 & G20	100% Solids, Isocyanate-Free, Solvent-Free, High Build Epoxy Coating	Standard Cement Materials, Inc.	Standard 4553TM Epoxy Coating	N/A
COHWW09901-12	09901	NA	Protective Coatings	Sherwin Williams Co	DuraPlate 6100 High Performance Epoxy	NA
COHWW09901-13	09901	NA	Spectra Shield	Concrete Conservation Inc.	Silicon Modified Polyurea/ Spectra Shield	NA
COHWW09901-14	02510	F2736, F2764	Polypropylene Gravity Sanitary Sewer Piping	Advance Drainage Systems (ADS)	SaniTite HP	12"-60"

¹ For structural & corrosion protection.

² "Ring Stiffness Constant" shall equate to a pipe stiffness of 46.

³ Termed "Closed Profile".

⁴ Termed "Open Profile".

⁵ 150 psi Minimum Working Pressure, this does not account for surge (water hammer).

⁶ Filament wound fiberglass pipe may be used in force main applications.

⁷ Gasket material to be determined for each individual installation.

⁸ For structural purposes only, no corrosion protection.

⁹ Requires minimum 1" dry thickness.

¹⁰ Approved for demonstration.