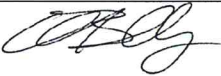
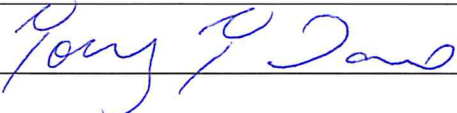


# CONTRACTOR SUBMITTAL FORM

<b>Project Name:</b> Navajo Gallup Water Supply Project Reach 26.3	<input checked="" type="checkbox"/> <b>M</b> (Materials) <input type="checkbox"/> <b>T</b> (Testing) <input type="checkbox"/> <b>A</b> (Administrative)	<b>Submittal No.</b>  M028
<b>SMA Project No:</b> 6921307		
<b>Date:</b> 08-05-2019		
<b>Contractor:</b> Navajo Engineering and Construction Authority	<b>No. of Copies:</b> 1	

<b>Supplier:</b> Core & Main	<b>Manufacturer:</b> Harrington Corporation
<b>Specification No.:</b> None	<b>Drawing No.:</b> DT-8
<b>Bid Item No(s):</b> 22	
<b>Submittal Checklist No(s):</b> M42	
<b>Product Description:</b> 2" Adapter PVC Slip Gasket	
<b>Are there any deviations from the Contract Documents?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <b>Explain:</b>	
<b>Contractor's certification that product meets requirements of Contract Documents:</b> <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Certified with variations as noted on shop drawings and/or attached sheets.	
<b>Signed:</b>  Quentin Benally, NECA	<b>Date:</b> 08-05-2019

<b>Engineer's Comments:</b> <input checked="" type="checkbox"/> No Exception Taken <input type="checkbox"/> Approved as Corrected <input type="checkbox"/> Exceptions as Noted <input type="checkbox"/> Submittal Rejected <input type="checkbox"/> Revise and Resubmit to Engineer <input type="checkbox"/> Contractor to Submit Specified Information	Review is limited to check for compliance with design concept. No changes from provisions of Contract Documents are intended and Contractor remains responsible for compliance with revisions therein.  The Contractor is solely responsible for quantities; correctness of dimensions; verification of physical interrelation of elements of the work as required by the drawings and specifications and by field determination; fabrication procedures, construction methods, techniques and sequences. This review does not relieve the Contractor from these responsibilities.  Non-conformities and errors detected have been noted but such markings, or lack thereof, shall not relieve the Contractor from compliance with all requirements of the contract drawings and specifications.
<b>Signed:</b> 	<b>Date:</b> 8/19/19

## FITTINGS

# PVC FITTINGS FOR IPS PIPE

### Engineered for Durability

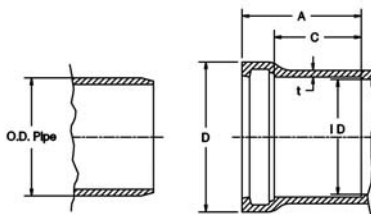
#### HARCO Class 200 PVC Fittings

HARCO Class 200 Pressure Pipe Fittings will fit all IPS Pipe (Iron Pipe Size). IPS Pipe is available in SDR 21, Class 200; SDR 26, Class 160; Schedule 40 and Schedule 80. HARCO offers a wide selection of sizes 1 1/2" thru 8", and a full compliment of reducers, reducing tees, and adapters. HARCO's large inventory assures you of fast and complete orders.

#### SUGGESTED SPECIFICATION

All fittings for Iron Pipe Size pipe shall be manufactured in one piece of injection molded PVC compound meeting ASTM D1784. Fittings shall be Class 200 and conform to requirements of DR 21. Fittings shall be designed to withstand a minimum of 630 psi quick burst pressure at 73 degrees F., tested in accordance with ASTM D1599. Bell shall be gasketed joint conforming to ASTM D3139 with gaskets conforming to ASTM F477. Push Joint or Mechanical Joint Ductile Iron fittings meeting AWWA C153 shall be allowed as alternative when PVC sizes are not available.

#### STANDARD JOINT DIMENSIONS - IN INCHES



Nominal Diameter	O.D. Pipe	A	C	D	T	ID
1 1/2	1.900	3.168	2.418	1.938	0.107	1.720
2	2.375	3.273	2.523	2.413	0.133	2.149
2 1/2	2.875	3.383	2.633	2.913	0.158	2.601
3	3.500	3.520	2.770	3.538	0.191	3.166
4	4.500	4.103	2.990	4.558	0.246	4.072
6	6.625	4.571	3.458	6.683	0.358	5.993
8	8.625	5.161	3.898	8.708	0.463	7.805

IPS PVC  
Pressure

1 1/2" Thru  
8" Sizes

Rugged  
Construc-  
tion

Easy  
Installation

All PVC  
System

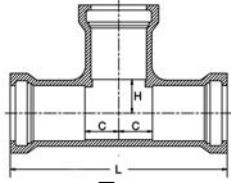
High  
Strength



HARRINGTON CORPORATION • P.O. BOX 10335 • LYNCHBURG, VIRGINIA 24506

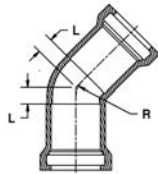
PHONE: 434-845-7094 • FAX: 434-845-8562 • E-MAIL: sales@harcofittings.com • WEB: www.harcofittings.com

PF135-02102007



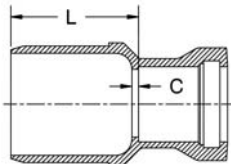
**Tees**

Cat. No.	Size	C	H	L	Wt
112-880	8 x 8	4.6	4.8	19.3	21.3
112-860	8 x 6	4.6	4.8	19.3	19.3
112-840	8 x 4	4.6	4.8	19.3	18.7
112-660	6 x 6	3.6	3.7	16.2	12.3
112-640	6 x 4	3.6	3.7	16.2	11.0
112-440	4 x 4	2.4	2.6	13.1	5.6
112-430	4 x 3	2.4	2.6	13.1	4.9
112-420	4 x 2	2.4	2.6	13.0	4.3
112-330	3 x 3	2.0	2.2	10.9	2.8
112-251	2.5 x 2.5	1.8	2.0	9.9	1.7
112-220	2 x 2	1.4	1.5	9.2	1.4



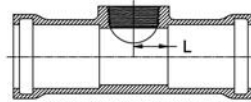
**45 Bend**

Cat. No.	Size	C	H	L	Wt
122-880	8 x 8	4.6	4.8	19.3	21.3
122-860	8 x 6	4.6	4.8	19.3	19.3
122-040	8 x 4	4.6	4.8	19.3	18.7
122-030	6 x 6	3.6	3.7	16.2	12.3
122-025	6 x 4	3.6	3.7	16.2	11.0
122-020	4 x 4	2.4	2.6	13.1	5.6



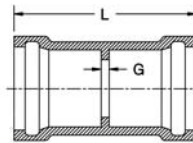
**Reducer**

Cat. No.	Size	L	C	Wt
116-860	8 x 6	4.4	0.4	5.8
116-840	6 x 4	3.8	0.4	2.7



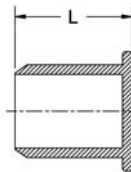
**Tapped Tee**

Cat. No.	Size	L	Wt
151-604	6	4.6	21.3
151-404	4	4.6	19.3
151-304	3	4.6	18.7
151-254	2.5	3.6	12.3
151-204	2	3.6	11.0



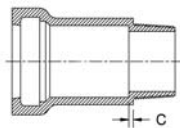
**Coupling**

Cat. No.	Size	L	G	Wt
108-080	8	11.1	.25	10.3
108-060	6	9.4	.25	5.6
108-040	4	8.4	.19	2.7
108-030	3	7.2	.19	1.3
108-025	2.5	7.0	.19	0.9
108-020	2	6.6	.09	0.7
108-015	1.5	6.4	.09	0.5



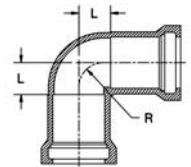
**Plug**

Cat. No.	Size	C	H	L	Wt
144-080	8	4.6	4.8	19.3	21.3
144-060	6	4.6	4.8	19.3	19.3
144-040	4	4.6	4.8	19.3	18.7
144-030	3	3.6	3.7	16.2	12.3
144-025	2.5	3.6	3.7	16.2	11.0
144-020	2	2.4	2.6	13.1	5.6
144-015	1.5	2.4	2.6	13.1	4.9



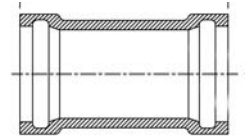
**Bell x MPT Adapter**

Cat. No.	Size	C	Wt
131-060	6	7.8	10.3
131-040	4	6.6	4.5
131-030	3	2.3	1.5
131-025	2.5	0.3	1.2
131-020	2	0.4	0.5
131-015	1.5	1.5	0.5



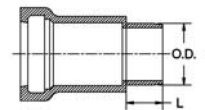
**90 Bend**

Cat. No.	Size	L	R	Wt
118-080	8 x 8	4.6	4.8	21.3
118-060	8 x 6	4.6	4.8	19.3
118-040	8 x 4	4.6	4.8	18.7
118-030	6 x 6	3.6	3.7	12.3
118-025	6 x 4	3.6	3.7	11.0
118-020	4 x 4	2.4	2.6	5.6



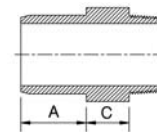
**Repair Coupling**

Cat. No.	Size	L	Wt
109-080	8	11.1	10.3
109-060	6	11.6	5.6
109-040	4	10.6	2.7
109-030	3	9.0	1.3
109-025	2.5	8.4	0.9
109-020	2	7.8	0.7
109-015	1.5	6.5	0.5



**Spigot Adapter**

Cat. No.	Size	L	OD	Wt
130-030	3	4.6	4.8	21.3
130-025	2.5	4.6	4.8	19.3
130-020	2	4.6	4.8	18.7
130-015	1.5	3.6	3.7	12.3



**PE x MPT Adapter**

Cat. No.	Size	C	Wt
133-060	6	7.8	10.3
133-040	4	6.6	4.5
133-030	3	2.3	1.5
133-025	2.5	0.3	1.2
133-020	2	0.4	0.5
133-015	1.5	1.5	0.5

