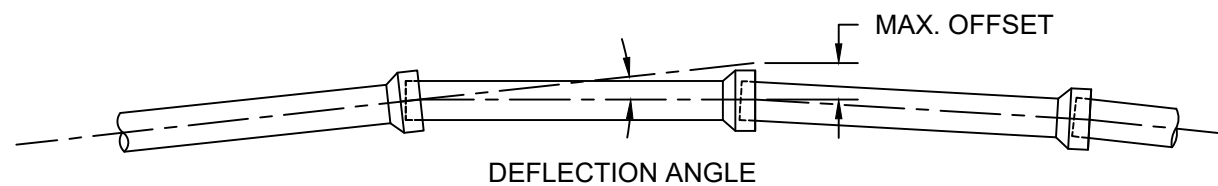


NOTES:

1. WHEN A PIPE IS DEFLECTED, THE PIPE SHALL FIRST BE ASSEMBLED IN A STRAIGHT LINE, BOTH HORIZONTALLY AND VERTICALLY BEFORE THE DEFLECTION IS MADE.
2. FOR MECHANICAL JOINT PIPE, THE BOLTS SHALL BE PARTIALLY TIGHTENED BEFORE THE LENGTH OF PIPE IS DEFLECTED. ANY SUPPORTED PIPE, SHALL BE SO SUPPORTED THAT THERE IS ZERO DEFLECTION EXCEPT WHERE EITHER A HORIZONTAL OR VERTICAL CURVE ON A BRIDGE OR OTHER STRUCTURE IS INVOLVED.
3. THRUST RESTRAINTS MAY BE REQUIRED ON THE DEFLECTED JOINTS.

NOMINAL PIPE SIZE (IN.)	PUSH-ON JOINT (18 FT. JOINTS)		MECHANICAL JOINT (18 FT. JOINTS)	
	DEFLECTION ANGLE (DEG.)	MAX. OFFSET (IN.)	DEFLECTION ANGLE (DEG.)	MAX. OFFSET (IN.)
3	5	19	8	31
4	5	19	8	31
6	5	19	7	27
8	5	19	5	20
10	5	19	5	20
12	5	19	5	20
14	3	11	3.5	13.5
16	3	11	3.5	13.5
20	3	11	3	11
24	3	11	2	9
30	3	11	---	---
36	3	11	---	---
42	3	11	---	---
48	3	---	---	---

NOMINAL PIPE DIAMETER (IN.)	BELL DEPTH (IN.)	BOLTS				APPROX. JOINT ACCESSORY WEIGHT (LBS.)
		DIAMETER (IN.)	LENGTH (IN.)	NUMBER PER JOINT	REC. TORQUE (FT.-LBS.)	
4	2.5	0.75	3.5	4	75-90	10
6	2.5	0.75	3.5	6	75-90	16
8	2.5	0.75	4	6	75-90	25
10	2.5	0.75	4	8	75-90	30
12	2.5	0.75	4	8	75-90	40
14	3.5	0.75	4.5	10	75-90	45
16	3.5	0.75	4.5	12	75-90	55
18	3.5	0.75	4.5	12	75-90	65
20	3.5	0.75	4.5	14	75-90	85
24	3.5	0.75	5	16	75-90	105
30	4	1	6	20	100-120	220
36	4	1	6	24	100-120	285
42	4	1.25	6.5	28	120-150	400
48	4	1.25	6.5	32	120-150	475



DUCTILE IRON PIPE DEFLECTION DETAIL
NTS

95% SUBMITTAL

FULTON COUNTY STANDARD DETAIL 120 PIPE JOINT DEFLECTION AND BOLT USAGE		DATE M/Y	REVISIONS XXX	DATE M/Y	REVISIONS XXX		 FULTON COUNTY	FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO. 120	
										DGS/DRN/CHKD: <u> XXX </u>
										APPROVED: <u> XXX </u>
										DATE: <u> XX-X-XX </u>