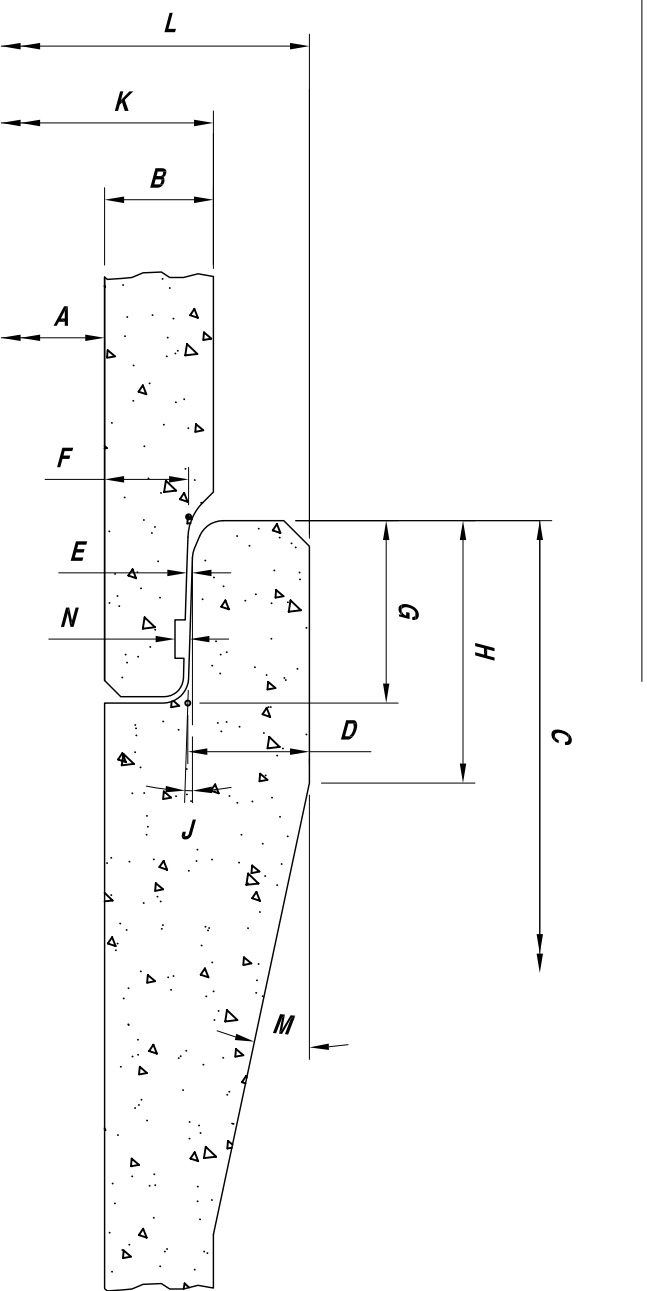
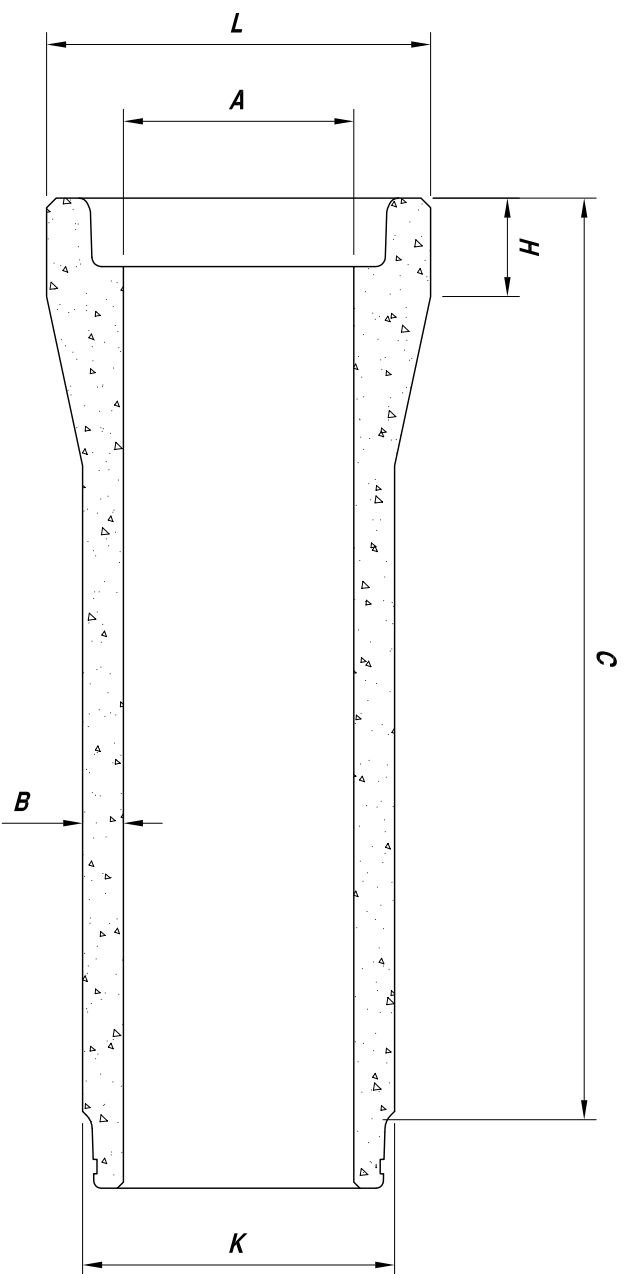


**NON-REINFORCED & REINFORCED  
CONCRETE PIPE WITH MACHINE  
GROUND JOINTS AND OFF-SET BELLS**



GROOVED JOINT DETAIL



PIPE - SECTION VIEW

BASIC DIMENSIONS & WEIGHTS - U.S. CUSTOMARY

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Nominal Pipe Diameter	12"	15"	18"	21"	24"	27"	30"	36"	42"	48"				
Wall Thickness	2.125	2.50	2.75	3.00	3.00	3.25	3.50	4.00	4.00	4.25	4.75	5.25	5.75	
Wall Thickness														
Average Laying Length	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
Bell Thickness (At Shoulder)	2.375	2.562	2.625	2.875	3.121	3.389	3.612	4.113	4.517	4.614				
Concrete Annular Space	0.101	0.101	0.111	0.113	0.113	0.094	0.094	0.094	0.094	0.094				
Spigot Thickness (At Shoulder)	1.640	1.890	2.204	2.454	2.707	2.959	2.985	3.485	4.069	4.574				
Joint Depth	3.56	3.56	3.75	3.75	3.875	3.875	3.875	4.625	4.750					
Bell Length (To Taper)	5.125	5.25	5.25	5.375	5.75	5.875	6.125	6.375	7.125	7.250				
Joint Taper	1.83°	1.83°	1.83°	1.83°	1.83°	1.83°	1.83°	1.83°	1.83°	1.83°				
Wall Outside Dia.	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall				
Wall Outside Dia.	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall				
Bell Outside Diameter														
Bell Outside Diameter														
Bell Slope	12°	12°	15°	15°	15°	15°	15°	15°	15°	15°				
Gasket Annular Space	0.290	0.290	0.362	0.362	0.362	0.394	0.394	0.394	0.500	0.500				
Approx. Wt./Ft.	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall	B/B+ Wall				
Approx. Wt./Ft.	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall	C Wall				

- Notes:
1. Non-Reinforced Concrete Pipe Is In Accordance With The ASTM C 14 Specification.
  2. Reinforced Concrete Pipe Is In Accordance With The ASTM C 76 Specification.
  3. Gaskets Are In Accordance With The ASTM C 443 Specification.
  4. Non-Reinforced Concrete Pipe Is Available In 12"  $\emptyset$  Through 36"  $\emptyset$  Only.

APPROVED BY: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**PREMARC**  
 INFRASTRUCTURE SPECIALISTS SINCE 1927  
 7505 Highway M-71  
 Durand, Michigan 48429  
 (989)-288-2661

Revisions:

No.	Date
1	
2	
3	
4	

Sheet Title:  
 GROOVED JOINT PIPE DETAILS  
 Producer:  
 THE PREMARC CORPORATION

MICHIGAN  
 Drawing No. \_\_\_\_\_  
 Drawn By: JKC  
 Chk'd By: BAP  
 Date: 11/29/05  
 Scale: None  
 Sheet No. P3

NON-REINFORCED & REINFORCED  
 CONCRETE PIPE WITH MACHINE  
 GROUND JOINTS AND OFF-SET BELLS