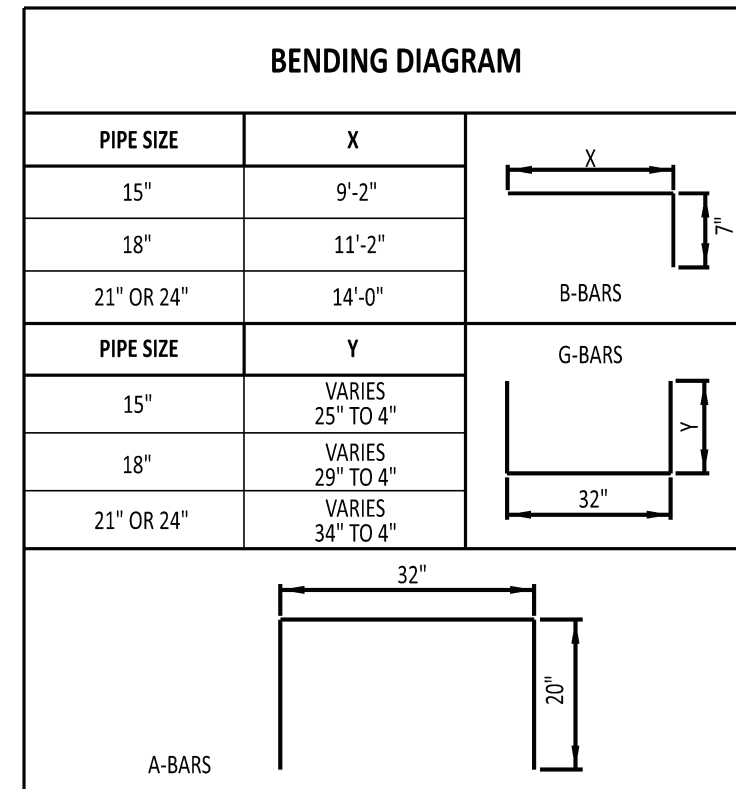


DIMENSIONS			
PIPE SIZE	A	B	C
15"	9'-6"	2'-5"	8'-4"
18"	11'-6"	2'-9"	10'-5"
21" OR 24"	14'-4"	3'-2 <sup>5</sup> / <sub>8</sub> "	12'-6"

APPROXIMATE QUANTITIES							
PIPE SIZE	CONCRETE FT <sup>3</sup>		REINF. STEEL LBS.	NO. OF GRATES	LENGTH TO BE CUT FROM 1 GRATE	WEIGHT OF FULL SIZE GRATE LBS.	WEIGHT OF CUT GRATE LBS.
	CONC. PIPE	C.M. PIPE					
15"	25	25.43	121.12	2	--	270.92	--
18"	31.5	32.07	156.7	3	2'-1"	270.92	135.47
21" OR 24"	40.75	39.87	194.0	3	--	270.92	--



SCHEDULE OF REINFORCING STEEL																				
PIPE SIZE	A-BARS				B-BARS				C-BARS				D-BARS				G-BARS			
	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH
15"	#4	2	8"	72"	#4	5	8"	9'-9"	#4	2	-	9'-3"	#4	4	8"	VARIES 50" TO 100"	#4	15	8"	VARIES 40" TO 82"
18"	#4	2	8"	72"	#4	5	8"	11'-9"	#4	2	-	11'-5"	#4	6	8"	VARIES 43 <sup>1</sup> / <sub>2</sub> " TO 130 <sup>1</sup> / <sub>2</sub> "	#4	18	8"	VARIES 40" TO 90"
21" OR 24"	#4	2	8"	72"	#4	5	8"	14'-7"	#4	2	-	14'-3"	#4	6	8"	VARIES 51" TO 153"	#4	22	8"	VARIES 40" TO 100"



DELAWARE  
DEPARTMENT OF TRANSPORTATION

6:1 CONCRETE SAFETY END STRUCTURE

STANDARD NO. D-1 (2018)

SHT. 2 OF 2

APPROVED

SIGNATURE ON FILE  
CHIEF ENGINEER

1/04/2019  
DATE

RECOMMENDED

SIGNATURE ON FILE  
DESIGN ENGINEER

12/20/2018  
DATE