



HDPE WALL ANCHOR

DIPS PIPE SIZE (DR11)	PRESSURE	x (in)	Ax (in)	Ay (in)	Ab (sf)	h (in)	Vol (cy)
8"	150 PSI	30	90	36	15	18	34
10"	150 PSI	36	102	42	21	18	45
12"	150 PSI	45	120	48	30	24	80
14"	150 PSI	54	144	54	40	24	108

NOTES:

WHEN HDPE MAIN IS CONNECTED TO DI FITTING, USE HDPE MJ ADAPTER AND DI REDUCER AS NECESSARY TO MAKE CONNECTION.

TYPICAL CONFIGURATIONS:

WHEN HDPE BRANCH IS 8", USE 8" GATE VALVE. USE 8" x 6" DI REDUCER AND 6" GATE VALVE ONLY WHEN CONNECTING TO 6" DIP/PVC

WHEN HDPE BRANCH IS 10", USE 10" x 8" DI REDUCER AND 8" GATE VALVE.

WHEN HDPE BRANCH IS 12", USE 12" GATE VALVE.

WHEN HDPE BRANCH IS 14", USE 14" x 12" DI REDUCER AND 12" GATE VALVE.

NOTES:

THE MINIMUM SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1000 PSF. POLYETHYLENE PIPINS SYSTEMS FIELD MANUAL FOR MUNICIPAL WATER APPLICATIONS 2009 EDITION.

THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTION BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS THE DESIGN ENGINEER SHALL PROVIDE A SITE SPECIFIC DESIGN.

THE MINIMUM LATERAL BEARING SURFACE AREA (Ab) AND APPROXIMATE VOLUME OF CONCRETE (Vol) SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE WALL ANCHOR BLOCKS.

THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM DIMENSIONS IN THE TABLE. A TRENCH WIDTH OF 30-INCHES (8" - 12") OR 36-INCHES (14") AND 6" BEDDING UNDER THE PIPE ARE ASSUMED FOR BEARING CALCULATIONS (Ax, Ay, x AND y).

THE DESIGN ENGINEER SHALL ENSURE THE CONSTRUCTION OF THE CONCRETE WALL ANCHOR BLOCK SHALL NOT CONFLICT WITH OTHER UTILITIES.

REVISION	BY	DATE

[Signature]
CITY ENGINEER

[Signature]
DESIGN MANAGER

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

HDPE WALL ANCHOR DETAILS

DATE: MARCH 2022

STD. 321