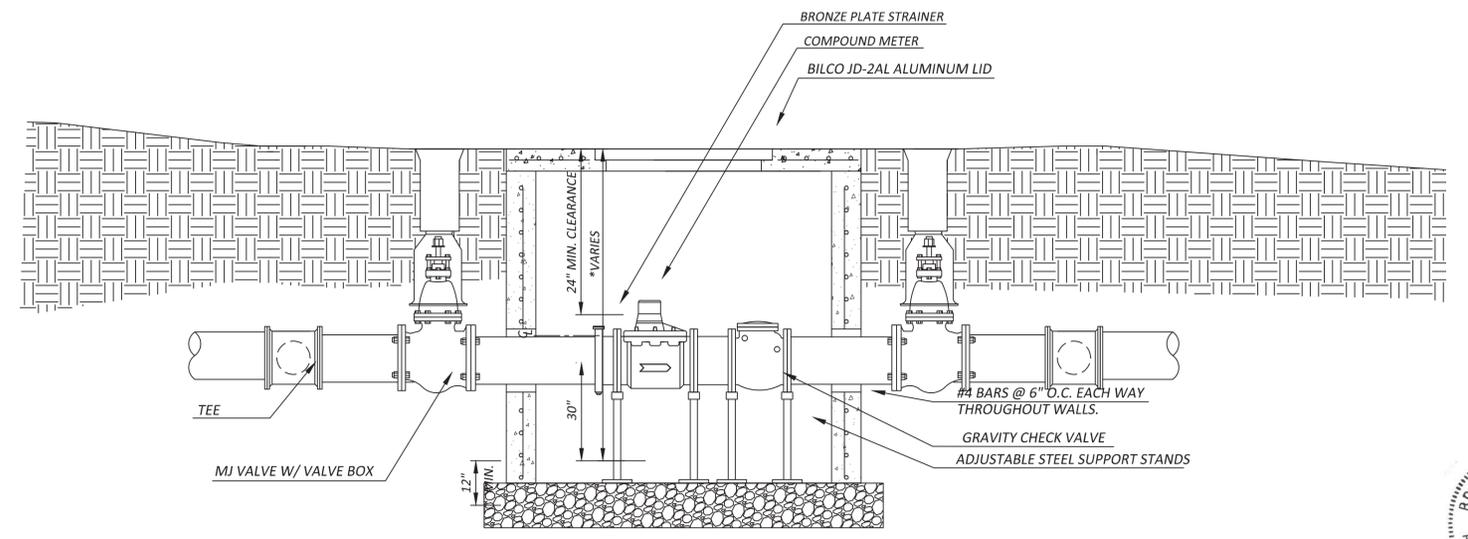


TYPE A METER VAULT (SECTION TOP VIEW)  
(NOT TO SCALE)



TYPE A METER VAULT (SECTION VIEW)  
(NOT TO SCALE)

VALVE TYPE BY SIZE	
PIPE SIZE	VALVE TYPE
4" - 12"	GATE VALVE
14" - UP	BUTTERFLY VALVE

TYPE A VAULT DIMENSIONS					
LETTER	6" DIP	8" DIP	12" DIP	16" DIP	24" DIP
A	6'	8'	8'	10'	12'
B	5'	6'	8'	8'	8'
C	2'	3'	4'	4'	4'

\* VAULT HEIGHT WILL VARY BASED ON SURFACE ELEVATION AND PIPE DEPTH. TOP OF VAULT SHALL BE FLUSH WITH GROUND SURFACE.

- NOTE:**
- ACCESS LID DOORS TO BE BILCO JD-2AL FOR NON-TRAFFIC APPLICATIONS AND JD-2AL H20 FOR TRAFFIC APPLICATIONS, OR APPROVED EQUAL. WHERE REQUIRED, A DUAL ACCESS DOOR WILL BE PERMITTED. REMOVABLE SQUARE KEY WRENCH SHALL BE PROVIDED TO THE CITY OF MANHATTAN UTILITIES DIVISION.
  - VAULT WALLS AND TOP SHALL BE MANUFACTURED OF REINFORCED PRECAST CONCRETE.
  - VAULT BASE SHALL BE CRUSHED GRAVEL. VAULTS SHALL BE MONARCH PRODUCTS COMPANY OR EQUIVALENT.
  - BYPASS LINE IS THE SAME SIZE AS THE METER.
  - METER SHALL BE BADGER WATER METER PER CITY OF MANHATTAN WATER METER SPECIFICATIONS.
  - ALL DESIGN AND CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND DRAWINGS SHOWN ON CITY OF MANHATTAN WEB SITE "NEW WATER SERVICE GUIDELINES AND SPECIFICATIONS"



NO.	DATE	DESCRIPTION	BY
<p>City of <b>Manhattan</b> Kansas</p> <p>PUBLIC WORKS 1101 POYNTZ AVE., MANHATTAN, KS 66502 (785) 587-2415</p>			
<p><b>MANHATTAN STANDARD DETAILS</b> <b>MSD 2330 WATER METER VAULT DETAILS</b></p>			
CITY ENGINEER: BRIAN JOHNSON, P.E.		DESIGN BY:	
CITY PROJ. #:		DATE:	
DRAWN BY:		PAGE OF	