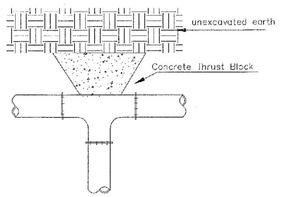
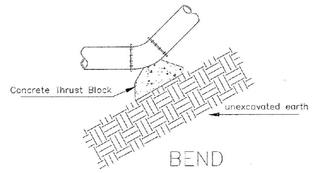
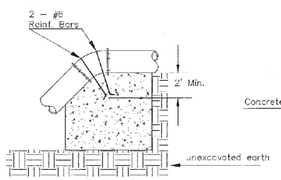


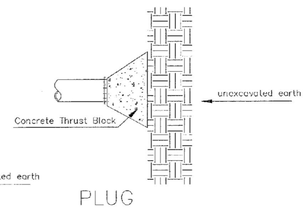
TEE



BEND



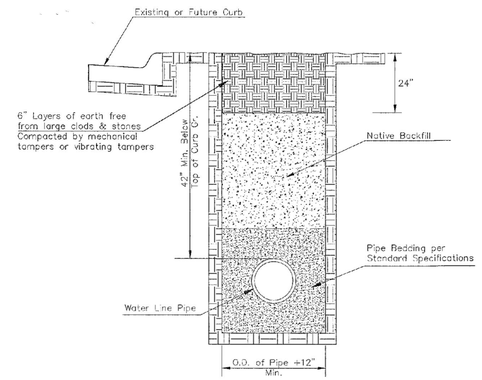
VERTICAL BEND



PLUG

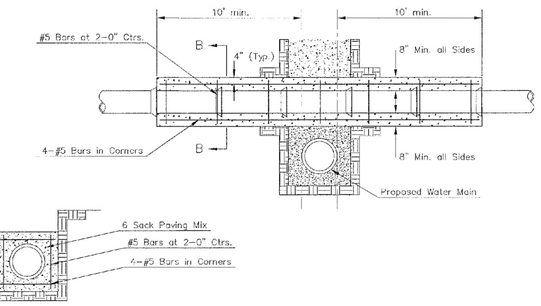
PIPE SIZE	THRUST AT FITTINGS IN TONS–AT 150#/IN^{2}P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.98	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.85	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS



TRENCH COMPACTION IN ROAD RIGHT–OF–WAY

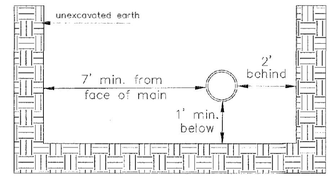
SIDE VIEW



Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.

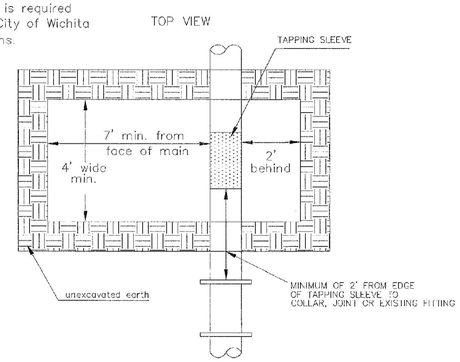
SECTION B–B

REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

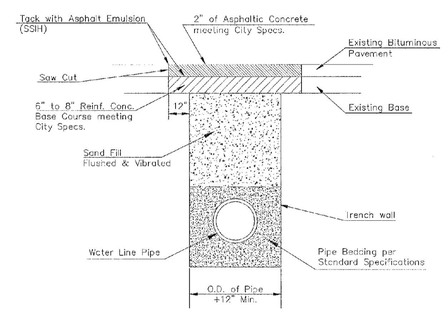


Note: When shoring is required it is to be per The City of Wichita Standard Specifications.

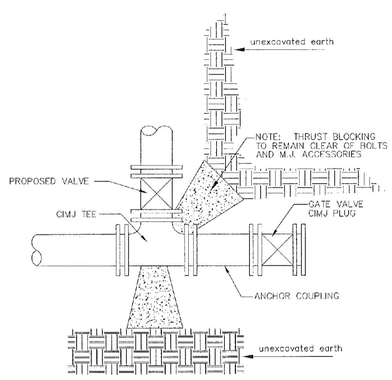
TOP VIEW



EXCAVATION FOR WET TAP



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS



KEY BLOCK DETAIL

* PLANS GOVERN UNLESS OTHERWISE NOTED ON PLANS

REVISED: JULY 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

MISCELLANEOUS WATER DETAILS

CITY ENGINEER
GARY JANZEN, P.E..

PROJECT NUMBER	OCA NUMBER	DATE
–		

CITY ENGINEER'S OFFICE
CITY HALL, SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET 05 of 11

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER 07/21/15

WL-104

PEC PROFESSIONAL ENGINEERING CONSULTANTS
303 SOUTH TOPEKA
WICHITA, KS 67202
316-262-2691 www.pec1.com

CITY OF WICHITA

WATER DISTRIBUTION SYSTEM
WATSON PARK EVENT CENTER

GARY JANZEN P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2019-019991

Issue:		
1	SENT FOR REVIEW	2/13/20

JOB NO.	197042-010
DATE	MARCH 2020
PM	NLS
DESIGNED BY	RMM
DRAWN BY	RFT
CHECKED BY	MEB

MISCELLANEOUS WATER DETAILS

C104
05 OF 11

SAVED 9/27/2019 8:27:41 AM BY RFT
PLOTTED 3/13/2020 4:09:16 PM BY REBECCA MELLIES, IE
U:\WICHITA-CIVIL\2019\197042\010\MUNI\DRAWINGS\WATERLINE\197042-010-C104.DWG