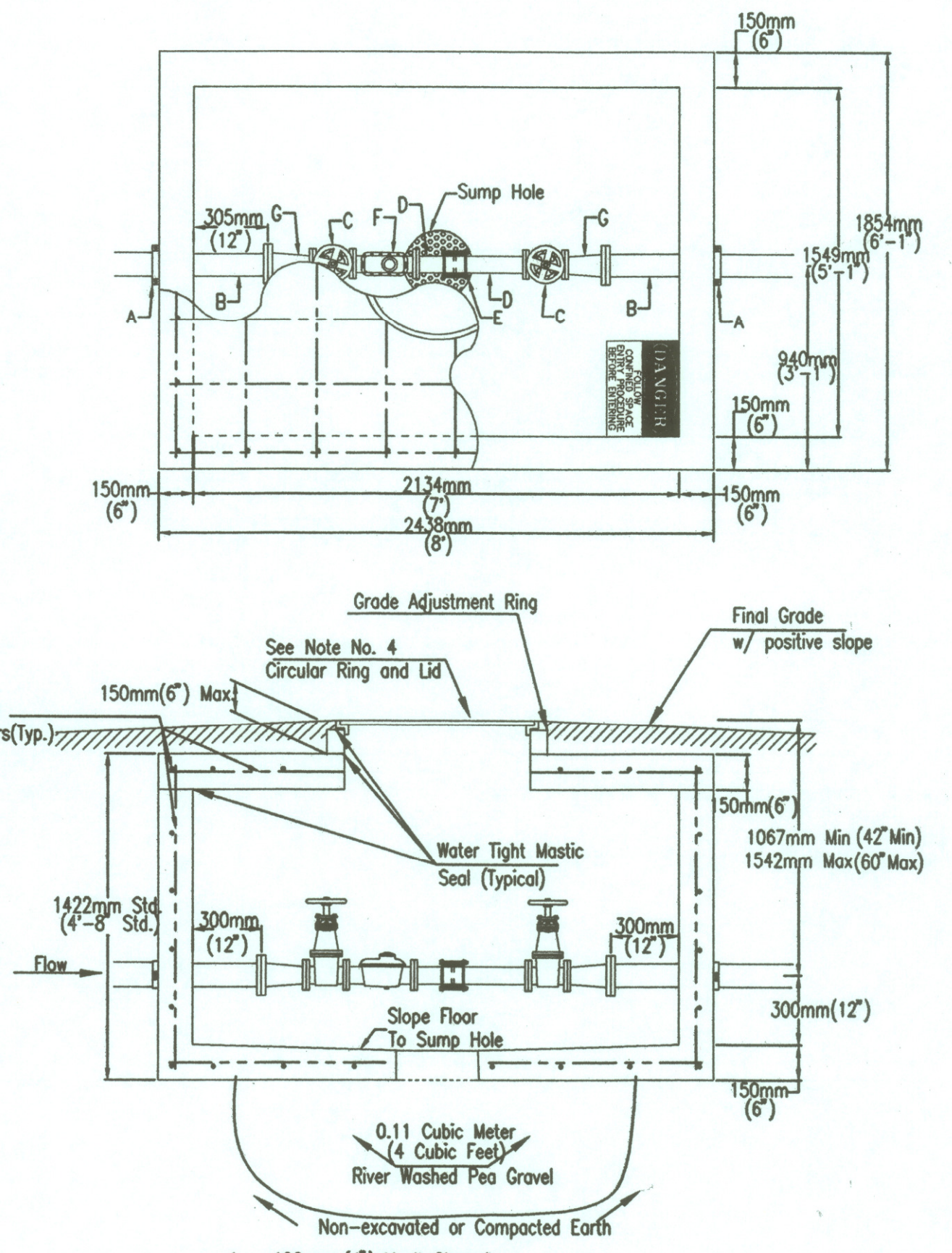


FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	54-87 K-6657-01	2002	201	1122

- Notes For All Services - 50mm(2") thru 300mm(12"):
- When the standard vault dimensions are not applicable, such as when additional space is required for special pipe, fittings, additional meters, etc. the design engineer shall design a vault with the required dimensions for Water & Sewer Dept. approval and Public Works approval.
 - The vault shall be poured concrete, cement blocks (voids to be completely filled with 17.2 mPa(2500 P.S.I.) concrete), or approved precast structure (such as Clutter Inc. vaults approved 8/1/2000). The intent of these details shall not be limited by drawings or standards of precast structures.
 - Vault location to be determined by Wichita Water & Sewer prior to construction and approved by Department's field supervisor prior to installation. A final inspection will be required for acceptance. Vault location standards include but not limited to: not to be located where subjected to vehicular loads, not to be located in any right-of-way or utility easement, and must be located on the property being served.
 - The manhole ring and lid shall be Neenah R-6034 Frame with Type "C" Solid Lid and Drop Down Handle of US Foundry APS-30x30 (Aluminum). Where applicable the standard 250mm(10") Wichita Water & Sewer pattern meter reading lid and ring shall be located directly above water meter register. All meter registers shall have an approved lid directly vertical above. All joints of concrete to concrete or metal to concrete in the construction of the vault shall have an approved water tight mastic joint seal.
 - Any fittings or appurtenances required to achieve proper elevation of pipe through the vault shall be provided by the contractor and appropriately noted on as-builts submitted by the inspecting engineer. Such fittings shall be a minimum of 610mm (2') from the exterior wall of vault.
 - For all services larger than 50mm(2") the contractor shall provide an outlet flange connection as shown 300mm(12") from the inside wall. Inlet and outlet wall sleeves shall be provided and installed by the contractor and shall be in alignment with one another. The inlet and outlet pipe shall be ductile iron pipe, cement lined, Class 150 per Standard Specifications and shall be continuous through vault wall and joint no less than 610mm(2') from the exterior wall of vault. Flanges of inlet and outlet pipes shall be in proper alignment and bolt pattern shall be rotated in such a way that valves and other fittings shall be in their proper vertical alignment when installed.
 - For all services 100mm(4") and larger the contractor shall install a mega lug, restrained joint, or approved equal on the exterior walls of the vault, which shall be manufactured of ductile iron conforming to ASTM A 536-80, heat treated to a minimum hardness of 370 BHN and have a working pressure of at least 1.7 mPa(250 P.S.I.). For all services smaller than 100mm(4") the contractor shall install an approved vault clamp on the exterior walls of the vault.
 - All valves, meters, assemblies, and fittings shall be provided with sufficient concrete or other approved supports to the vault floor.
 - The "Confined Space Warning" sign shall be fastened to the top of all vaults. If necessary for landscaping or site considerations, the sign may be fastened to the vault lid if it does not impede access to the handle. Acceptable materials: Aluminum 73415HH, Plastic 73439HH, or S.A. Vinyl 73463HH.



- A - 100mm (4") Vault Clamp*
 - B - Min. 910mm (3') Piece of 100mm (4") FL x PE DI CL Pipe**
 - C - 75mm (3") Flange Non-rising Stem Gate Wheel Valve**
 - D - 75mm (3") FL x PE Pipe**
 - E - 75mm (3") Flex Coupling**
 - F - 75mm (3") Cubic Foot Meter**
 - G - 75mm (3") x 100mm (4") FL Reducer**
- * = Contractor Installed
** = Installed By Wichita Water & Sewer

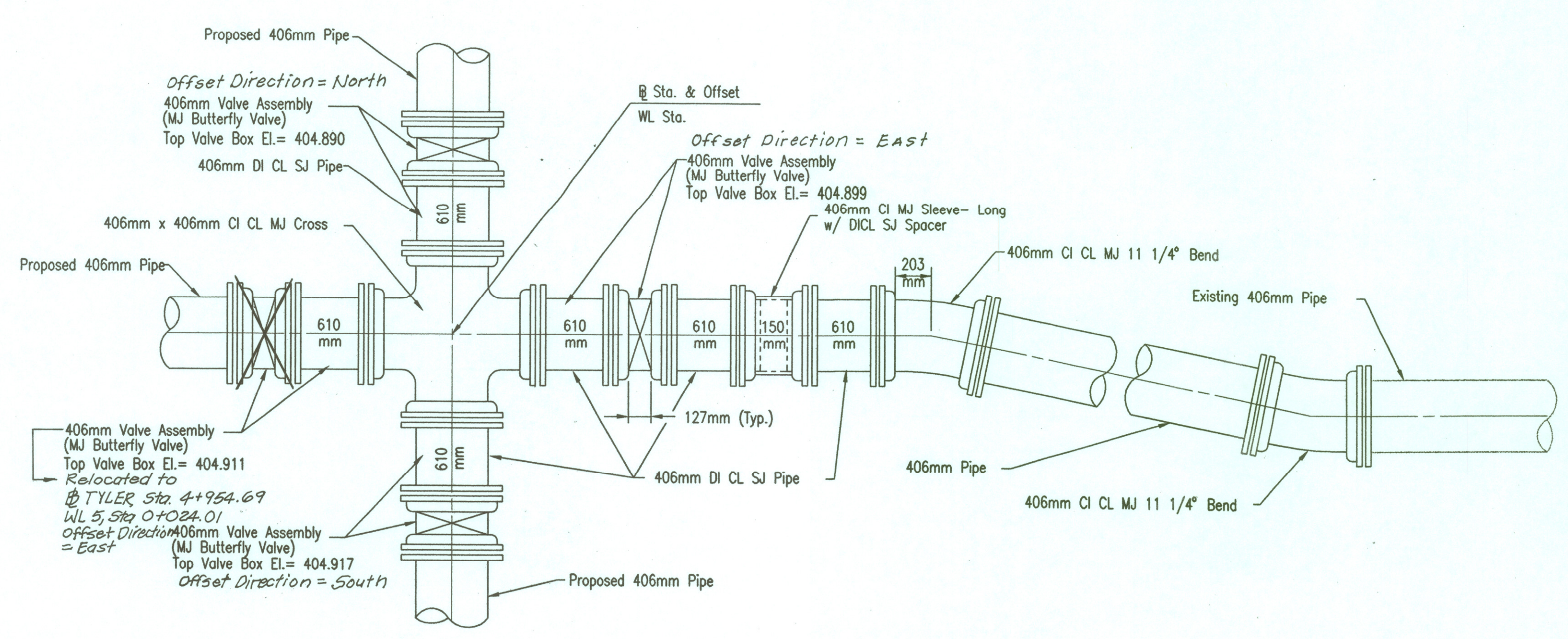
75mm (3") IRRIGATION METER AND VAULT

75mm (3") IRRIGATION SERVICE SCHEDULE				
STATION	OFFSET (M)	DISTANCE FROM MAIN TO VAULT (100MM PIPE REQUIRED)	TOP RIM ELEVATION	As Built TOP RIM ELEV.
MAIZE RD.				
3+938.249	24.471 Rt.	9.928M	403.234	403.229
4+062.000	37.860 Rt.	44.919M	403.133	403.118
TYLER RD.				
4+925.313	16.715 Rt.	36.385M 28.20M	404.964	404.984
5+078.000	26.000 Lt.	18.105M	404.982	404.983

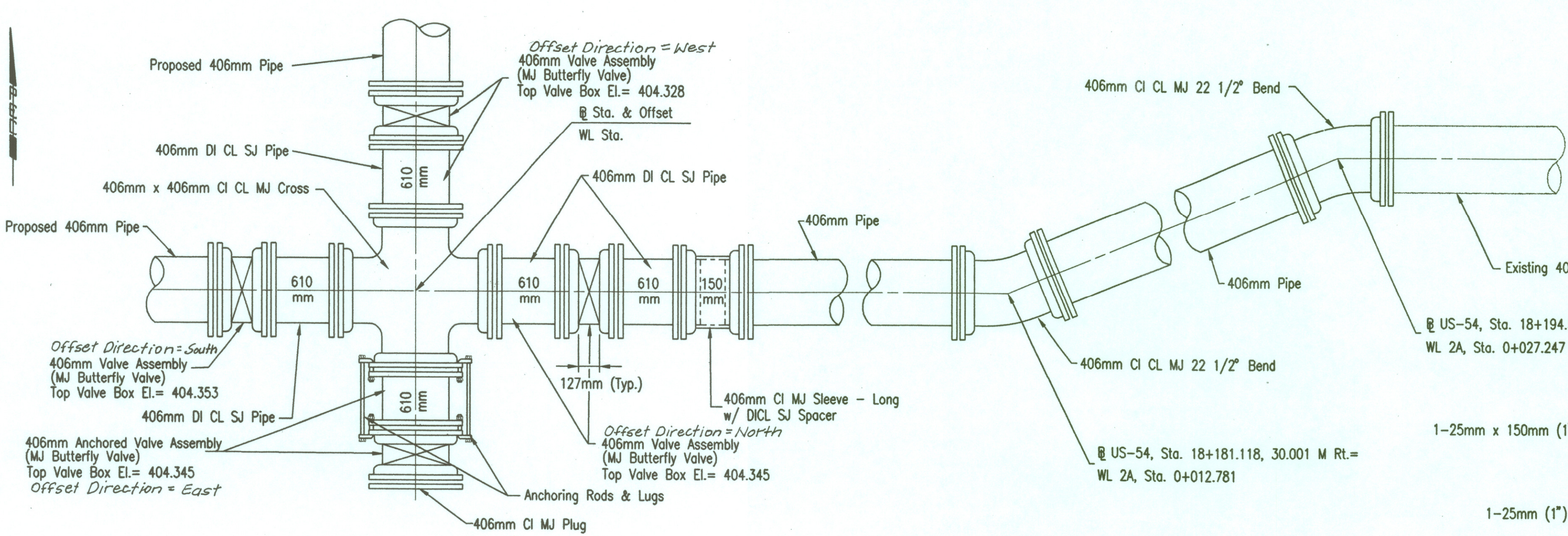
See Inspectors Sketches Sheets 200A, 200B & 200C

RECORD DRAWING
Larry D. Powell 10-18-04

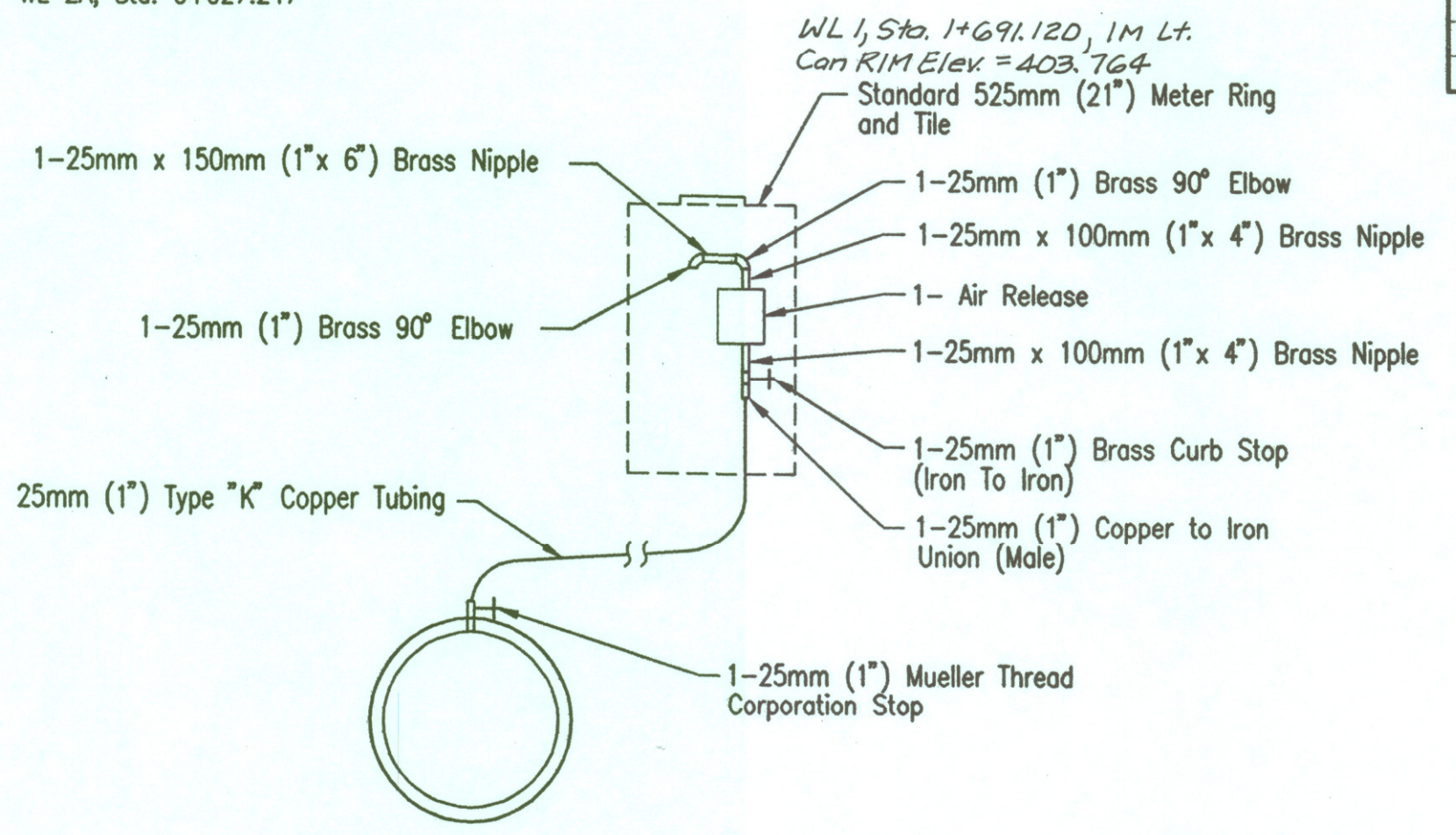
CITY OF WICHITA, KANSAS			
PIPING DETAILS			
SEDGWICK COUNTY			
Professional Engineering Consultants, P.A. 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	KJW	Checked by	
Drawn by	TDS, JGA	Date	APRIL, 2002
		Job No.	97362



US-54 AND TYLER
 @ US-54, Sta. 17+320.607, 51.305 M Rt.=
 WL 2, Sta. 0+992.096=
 @ TYLER, Sta. 5+050.840, 11.645 M Lt.=
 WL 5, Sta. 0+120.160



US-54 AND WOODCHUCK
 @ US-54, Sta. 18+168.338, 30.010 M Rt.=
 WL 2, Sta. 1+831.729



AIR RELEASE ASSEMBLY DETAIL

DSNR: TDS OPER: IIS SCALE: 1=0.02
 Q:\1997\97362\007\piping.dwg 04-12-2002 10:57:50 am