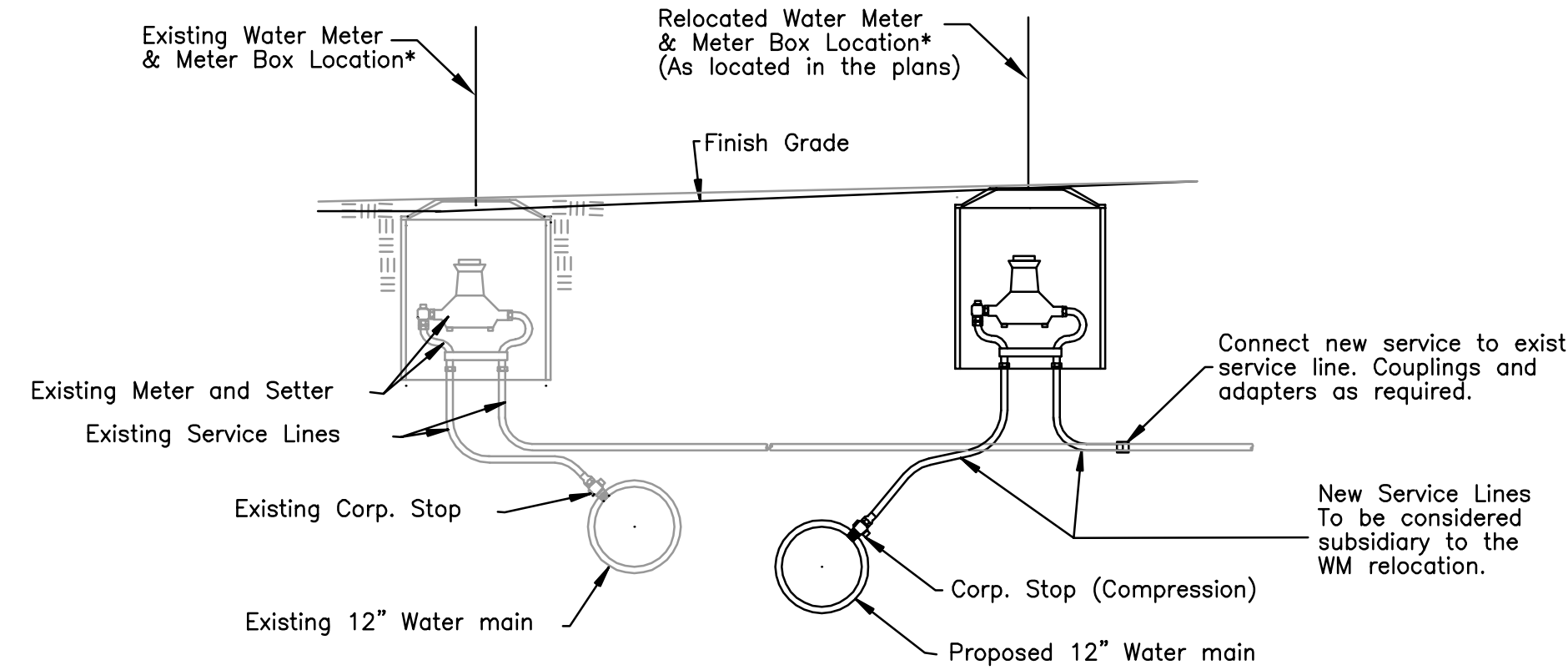


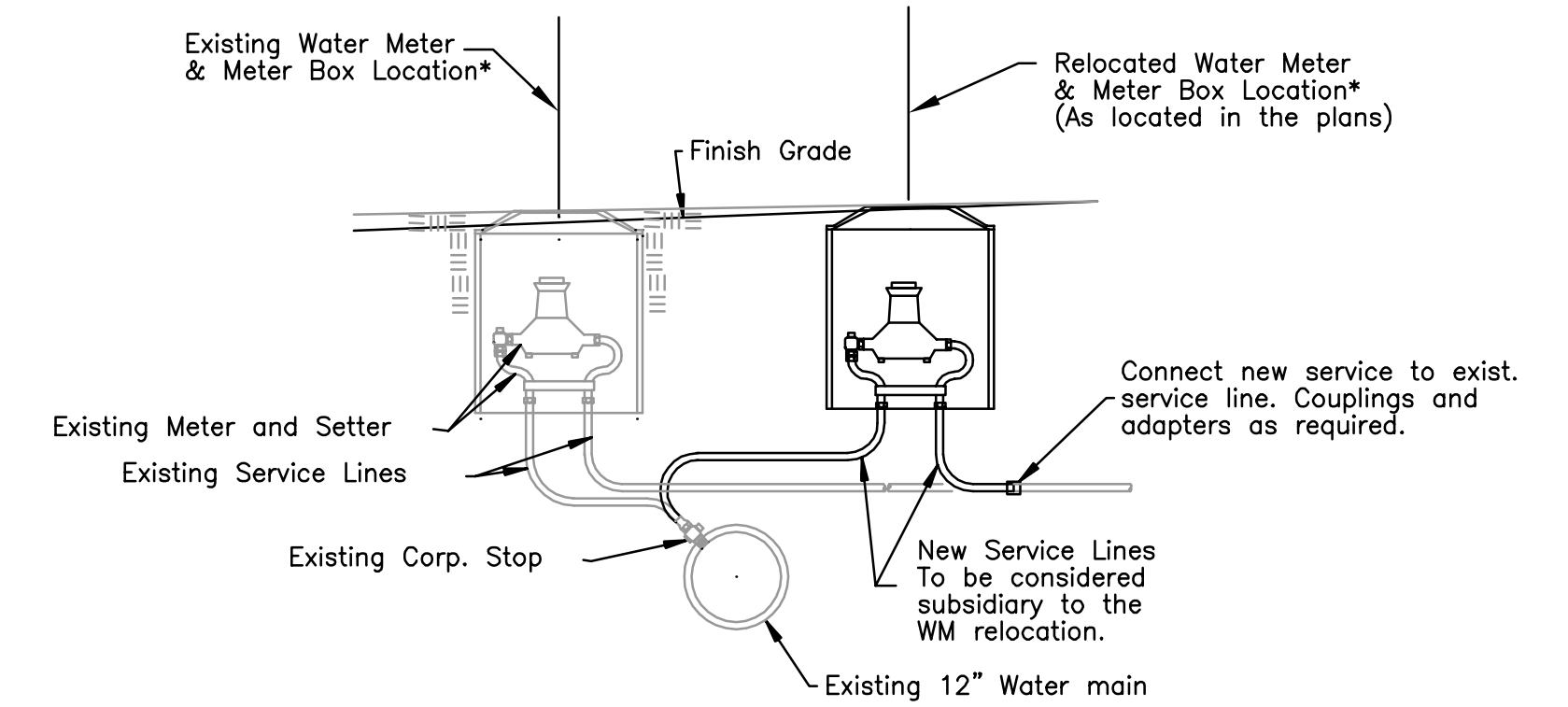
**FLUSHING HYDRANT ASSEMBLY**  
(WL 1, STATION 14+05.00)

- Not to Scale
- 1) ALL BLOCKING TO BE POURED CONCRETE CLASS II.
  - 2) USE STANDARD 5' BURY HYDRANT
  - 3) ALL PIPING AND FITTINGS BETWEEN THE MAIN AND THE FIRE HYDRANT SHALL BE DUCTILE IRON.
  - 4) FITTINGS OTHER THAN THOSE SHOWN OR ROTATED FITTINGS MAY BE REQUIRED IN ORDER TO ALIGN THE FIRE HYDRANT AT THE PLAN LOCATION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED PIPE AND FITTINGS NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.



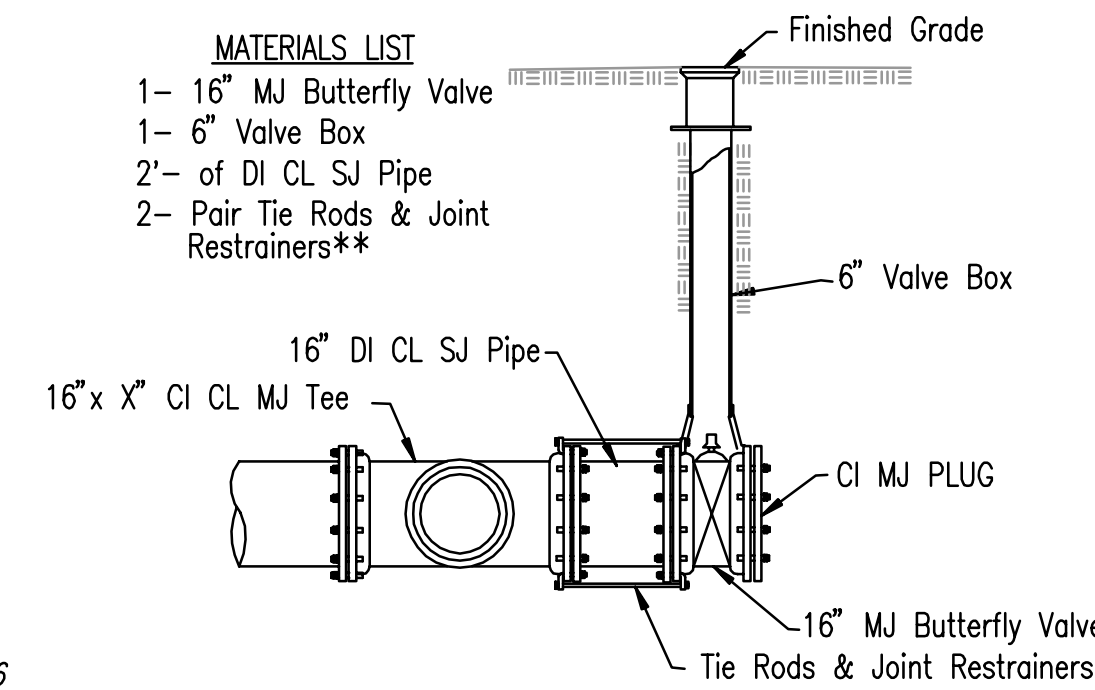
**WATER METER RELOCATION**  
CONNECTION TO PROPOSED WATER MAIN

\* THE WATER METER, METER SETTER, METER BOX, RING AND LID SHALL BE RE-USED AND RESET UNLESS DAMAGED OR DETERMINED UNSUITABLE FOR USE BY THE CONSTRUCTION ENGINEER OR HIS REPRESENTATIVE. THE CONTRACTOR WILL PROVIDE THE NEW SERVICE MATERIALS AS NEEDED. ALL NEW SERVICE MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS.



**WATER METER RELOCATION**  
CONNECTION TO EXISTING WATER MAIN

\* THE WATER METER, METER SETTER, METER BOX, RING AND LID SHALL BE RE-USED AND RESET UNLESS DAMAGED OR DETERMINED UNSUITABLE FOR USE BY THE CONSTRUCTION ENGINEER OR HIS REPRESENTATIVE. THE CONTRACTOR WILL PROVIDE THE NEW SERVICE MATERIALS AS NEEDED. ALL NEW SERVICE MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS.

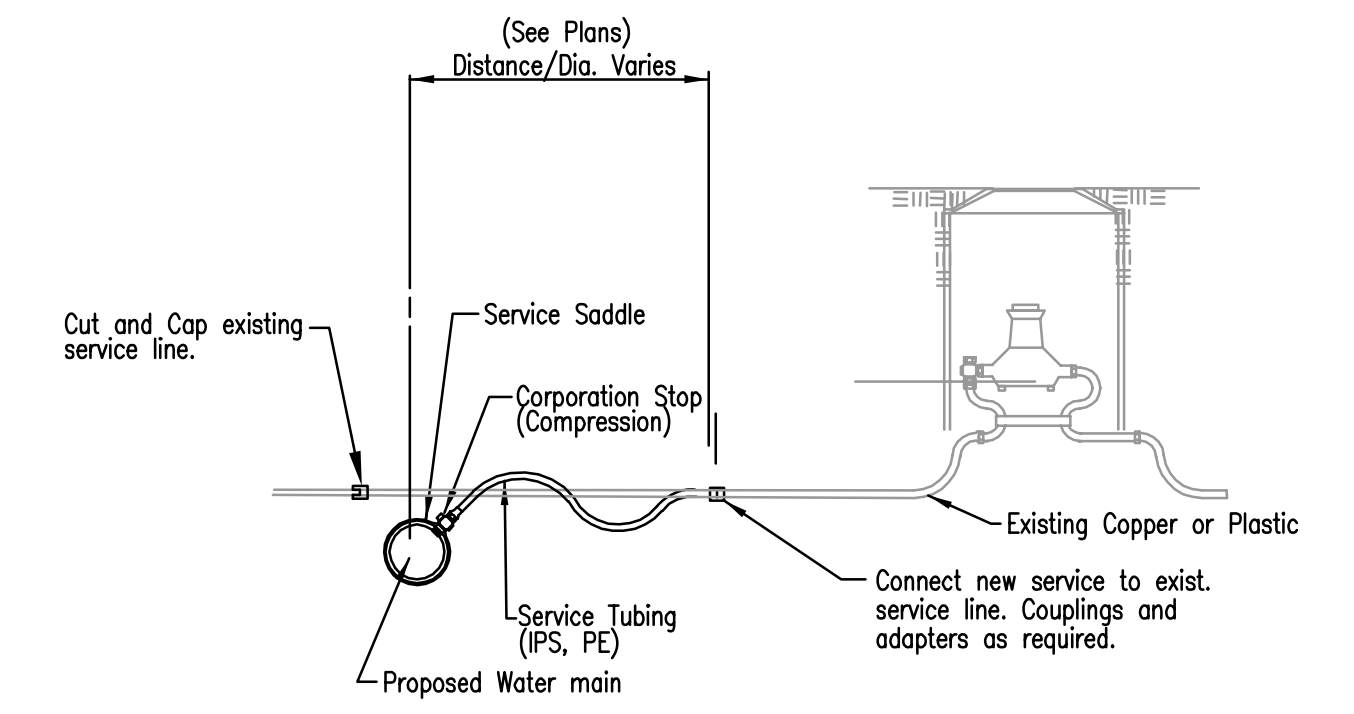


**MATERIALS LIST**

- 1- 16" MJ Butterfly Valve
- 1- 6" Valve Box
- 2'- of DI CL SJ Pipe
- 2- Pair Tie Rods & Joint Restrainers\*\*

**ANCHORED VALVE ASSEMBLY 16"**

\*\* Tie Rods & Joint Restrainers to be Star National Products Restraint System or approved



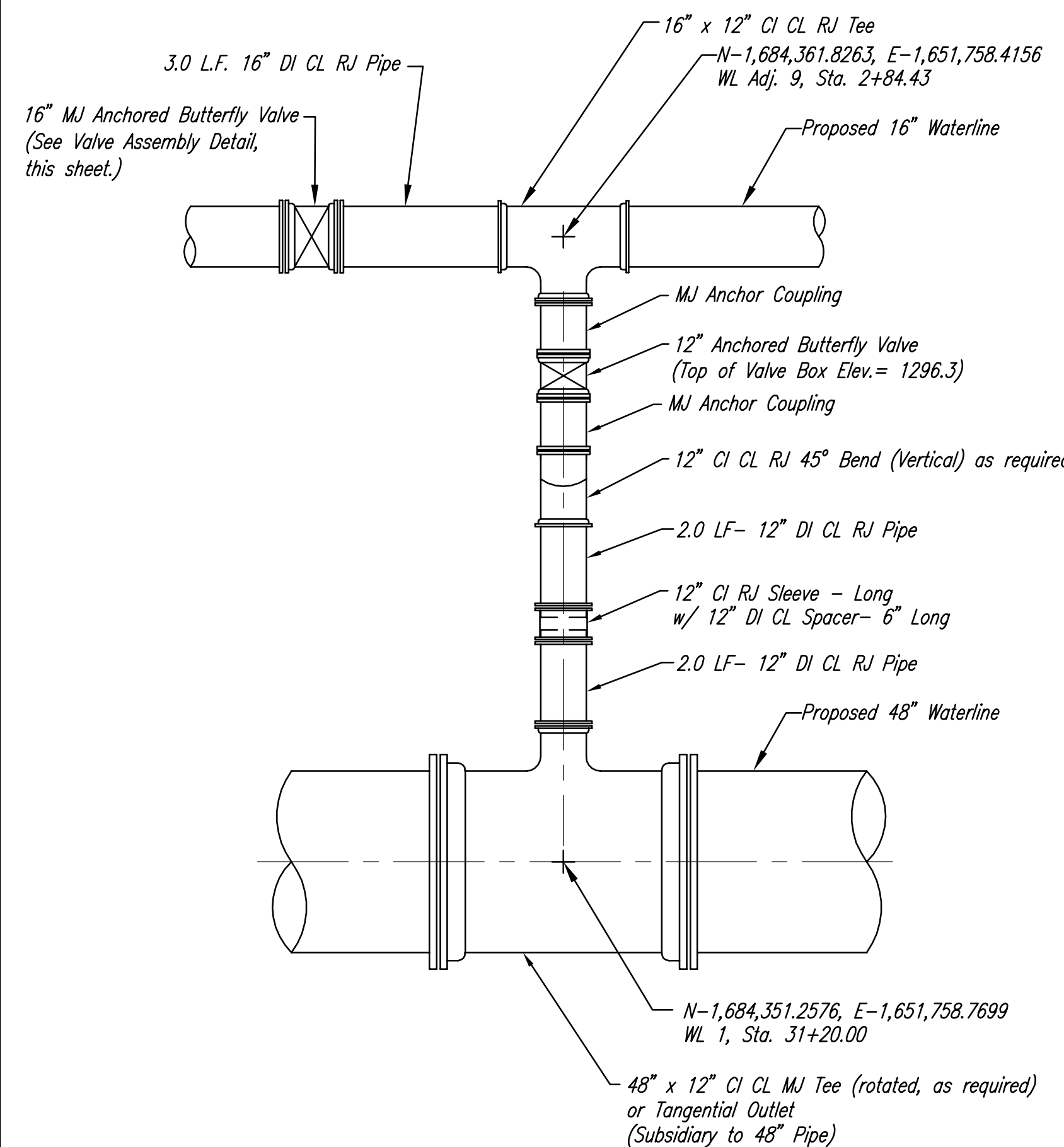
**SERVICE CONNECTION DETAIL**

WATER SERVICE CONNECTION SCHEDULE			
TAP LOCATION		LOCATION	APPROXIMATE SERVICE LINE REQUIRED (FT.)
LINE NO.	STATION		
Adj. 3	0+13	30' Rt.	30'
Adj. 5	0+59	10' Rt.	10'
Adj. 9	3+20	25' Rt.	25'
Adj. 9	3+38	24' Rt.	24'
Adj. 10	0+63	65' Rt.	65'

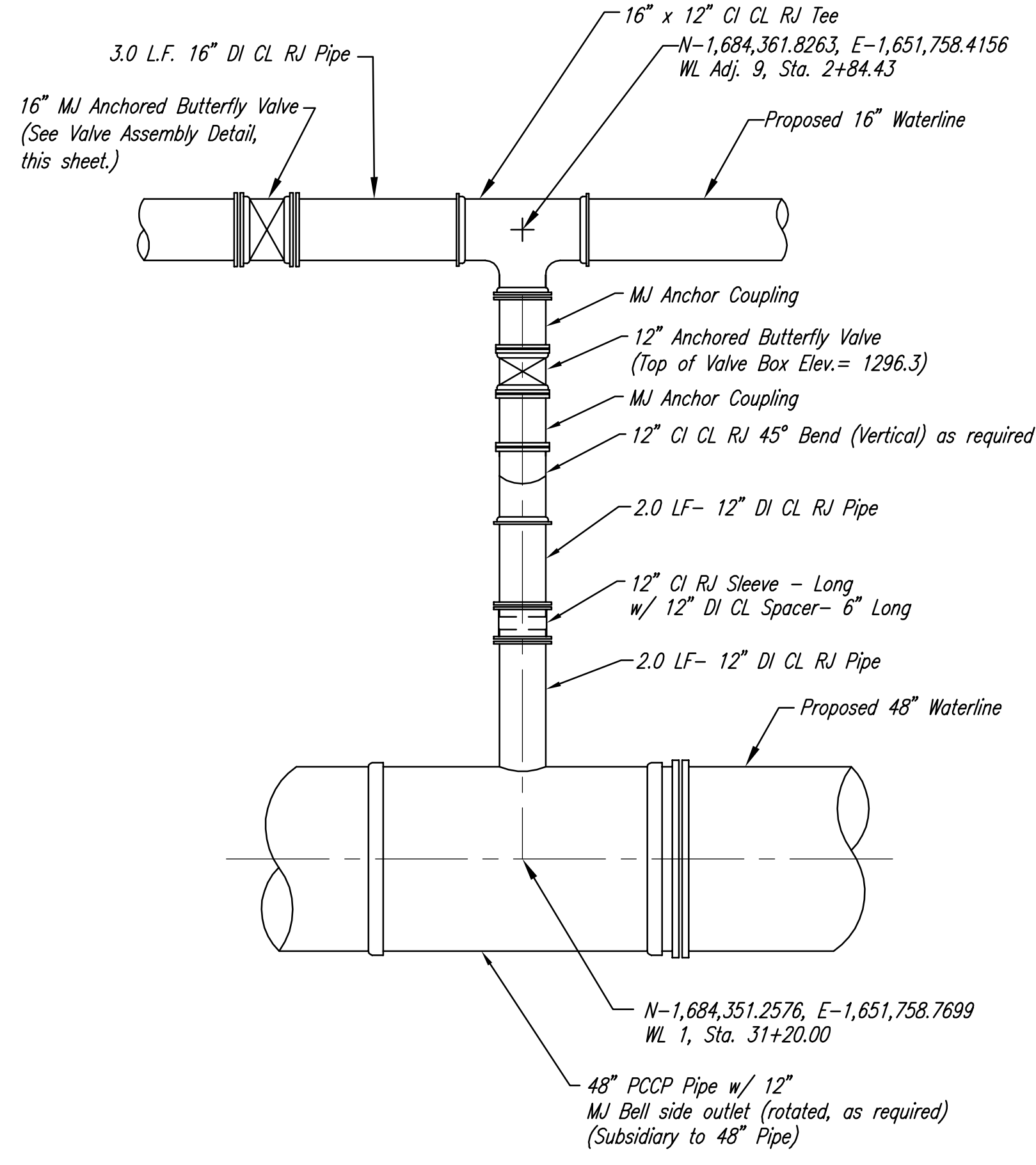
Note:  
Services will be bid on a per each basis.  
No adjustment in cost will be made for modifications to the approximate length as shown.  
Minimum depth of bury 42".  
Contractor shall verify existing service line Size prior to installing services.

**CONNECTION DETAIL NOTES**

1. CONTRACTOR SHALL NOTIFY CITY WATER DEPARTMENT A MINIMUM OF 48 HOURS BEFORE ANY CONSTRUCTION BEGINS. THE INS SHALL OCCUR DURING PERIODS OF LOW WATER USE. CONTRACTOR SHALL SUBMIT A SCHEDULE DEPICTING DATE AND TIME OF SHUTDOWN TO THE CITY WATER DEPARTMENT FOR APPROVAL AT LEAST 2 WEEKS IN ADVANCE OF SHUTDOWN.
2. CONTRACTOR SHALL EXCAVATE THE EXISTING WATERLINE TO VERIFY JOINT LAYOUT, DEPTH, AND CONNECTION DETAIL.
3. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF LAYING DIRECTION, SIZE, OR SPECIFIED MATERIAL TYPE DIFFERS FROM THE DETAILED DRAWING. THERE WILL NOT BE A CHANGE ORDER FOR OPPOSITE LAYING DIRECTION OR FOR MATERIAL TYPE DIFFERENCES.
4. CONTRACTOR SHALL HAVE FITTINGS, VALVES, AND APPURTENANCES ON SITE TO COMPLETE THE CONNECTION TO THE EXISTING WATERLINE BEFORE REMOVING ANY EXISTING WATERLINES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING A MINIMUM OF THREE COMPLETE SECTIONS OF THE EXISTING WATERLINE TO INSTALL THE FITTINGS, VALVES, AND APPURTENANCES TO CONNECT THE PROPOSED WATERLINE.
6. ALL OVER EXCAVATED AREAS AT THE TIE IN LOCATION SHALL BE FILLED OR ENCASED WITH EXCAVATABLE FLOWABLE FILL.
7. THE CONTRACTOR SHALL UTILIZE RESTRAINED JOINT PIPE, TIE RODS, OR OTHER APPROVAL METHODS TO RESTRAIN ALL VALVES, FITTINGS, AND PIPING AT THE VALVE AND CONNECTION LOCATIONS.
8. ALL COUPLINGS AND DUCTILE IRON FITTINGS AND APPURTENANCES SHALL BE POLY WRAPPED PER THE SPECIFICATIONS.



DI CL OPTION



PCCP OPTION

**CONNECT 48" WATERLINE TO 16" WATERLINE**  
No Scale

REMOVE FULL LENGTH SEGMENTS OF EXISTING 16" AC PIPE AS NEEDED. CONTRACTOR MAY DISPOSE OF OR DELIVER TO 1825 S. McLEAN. COST INCIDENTAL TO PIPE INSTALLED.

No.	Revision	By	Date
SOUTHEAST 48" WATERLINE - PHASE 1B			
<b>WATERLINE DETAILS</b>			
JAMES L. ARMOUR, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90182			
<b>Professional Engineering Consultants, P.A.</b> 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	MDK	Job No.	35-05787-001-42
Drawn by	CSL	Date	March 2006
			Sht. W6 of 31