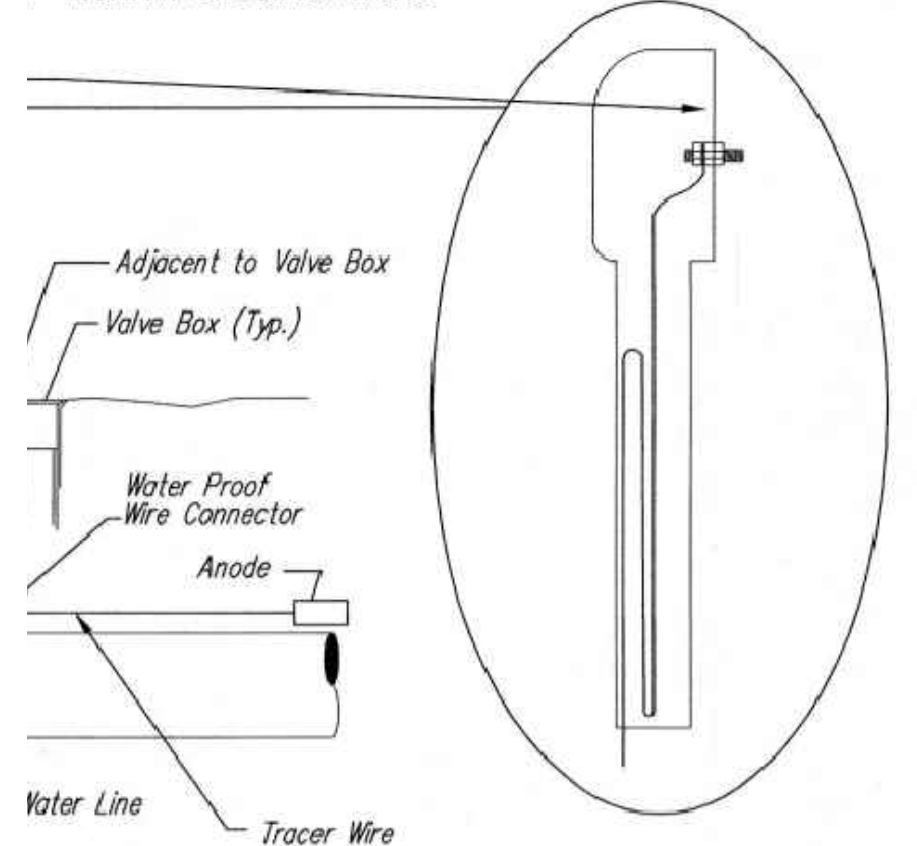


IF JURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE 1' AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ PLING AND 6" DI CL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS. USE 90° BENDS TO SECURE ALL FITTINGS DURING TESTING. CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS

KEEP CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR T OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED WEEP HOLE.

SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

**VALVE ASSEMBLY**  
 CITY OF WICHITA SPECIFICATIONS



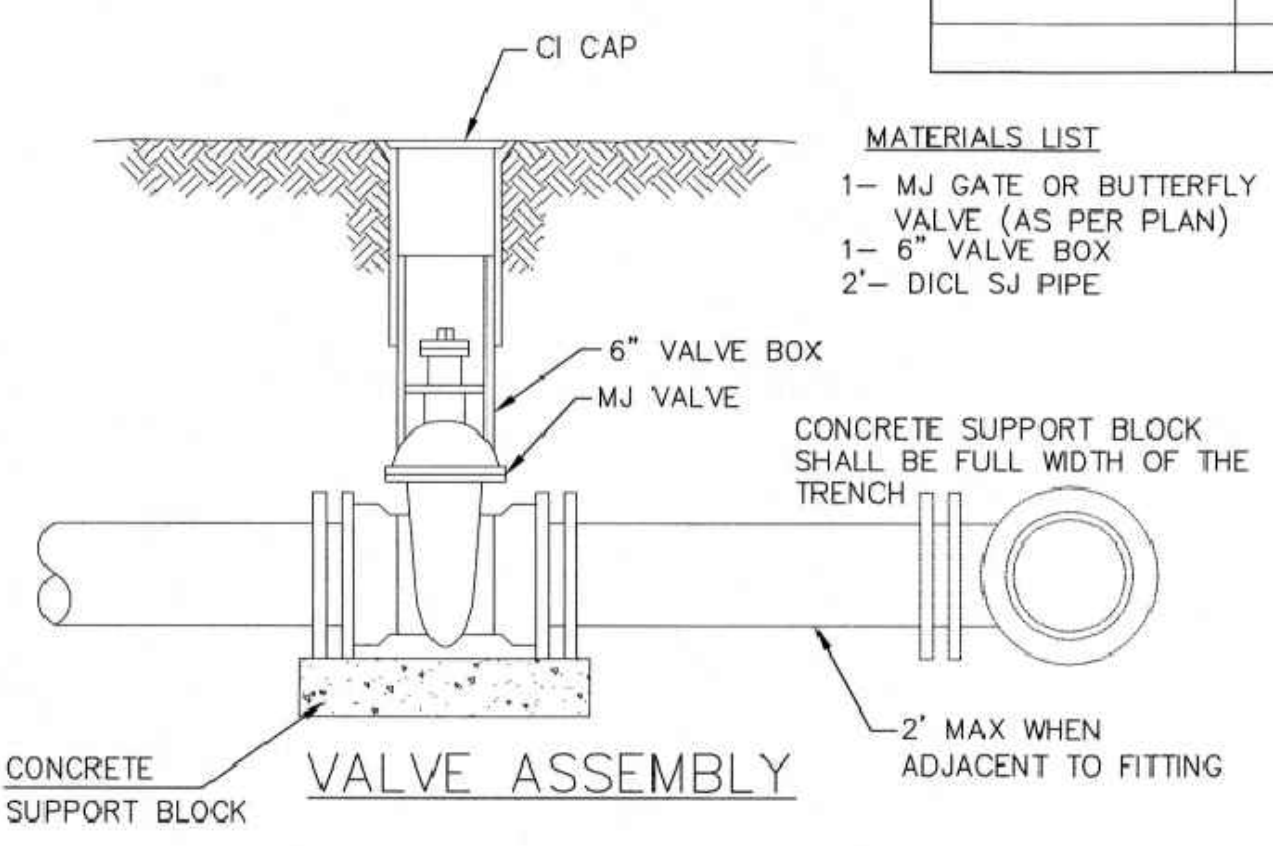
Tracer wire regardless of pipe material. The wire shall extend the entire length of the proposed waterline. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire is available at [www.wichita.gov](http://www.wichita.gov).

Note: To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the end of the waterline per manufacturer recommendations. Contractor shall attach wire being installed with care to the lid.

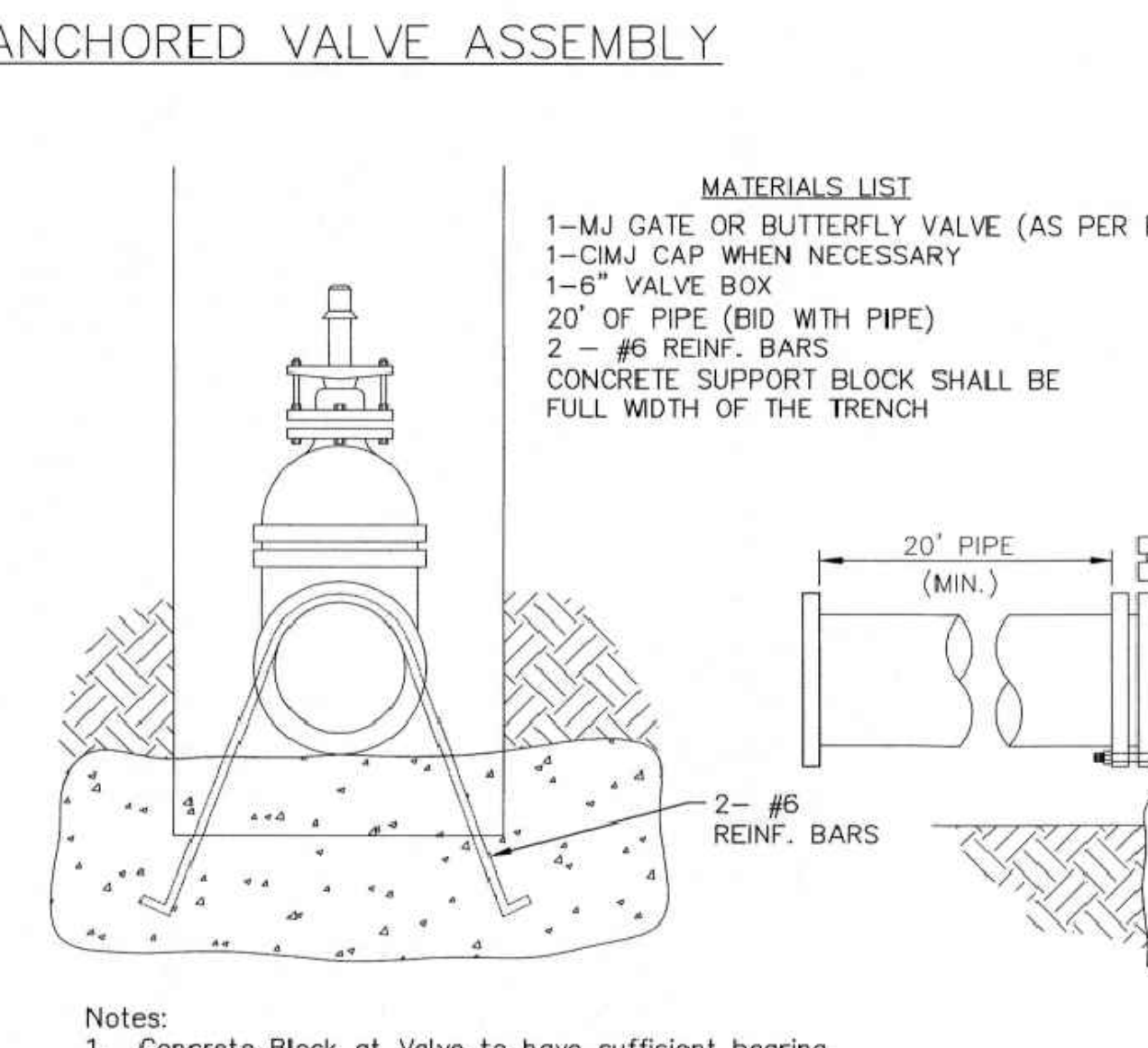
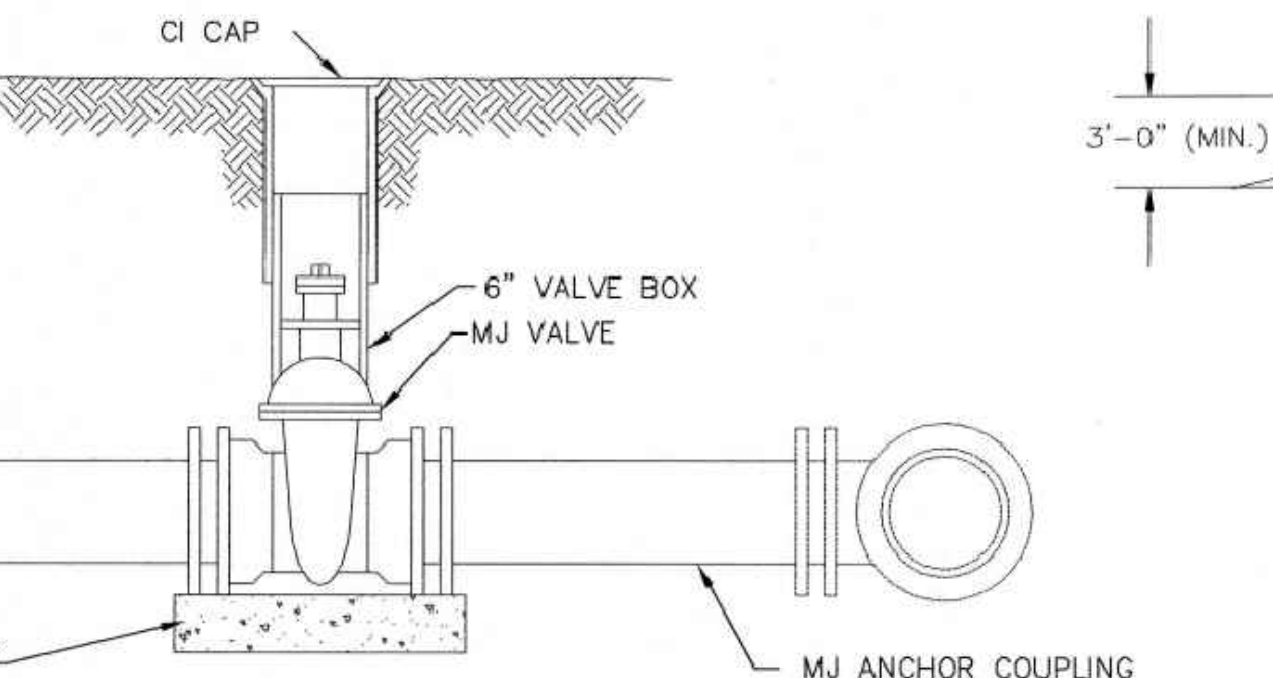
Note: Test station as manufactured by AGRA Industries with a removable solid cover having a single lead wire. The wire shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and sealed or molded into the lid. The test station for valve applications shall be a 2" flush style test station or CD14\*7P SnakePit as manufactured by Copperhead Industries or approved equal. The flush test stations shall be manufactured using molded blue tops or sufficiently coated with blue paint. The wire shall be 12" or longer within the test station. The location of all test stations shall be recorded, and shall be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire to the sidewalk.

Note: Anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
3+29.90, Line 1	1335.40	1330.55	5.5'	-
8+02.30, Line 1	1336.20	1332.35	4.5'	-
3+12.30, Line 4	1333.50	1329.65	4.5'	-
2+80.67, Line 5	1334.20	1330.35	4.5'	-

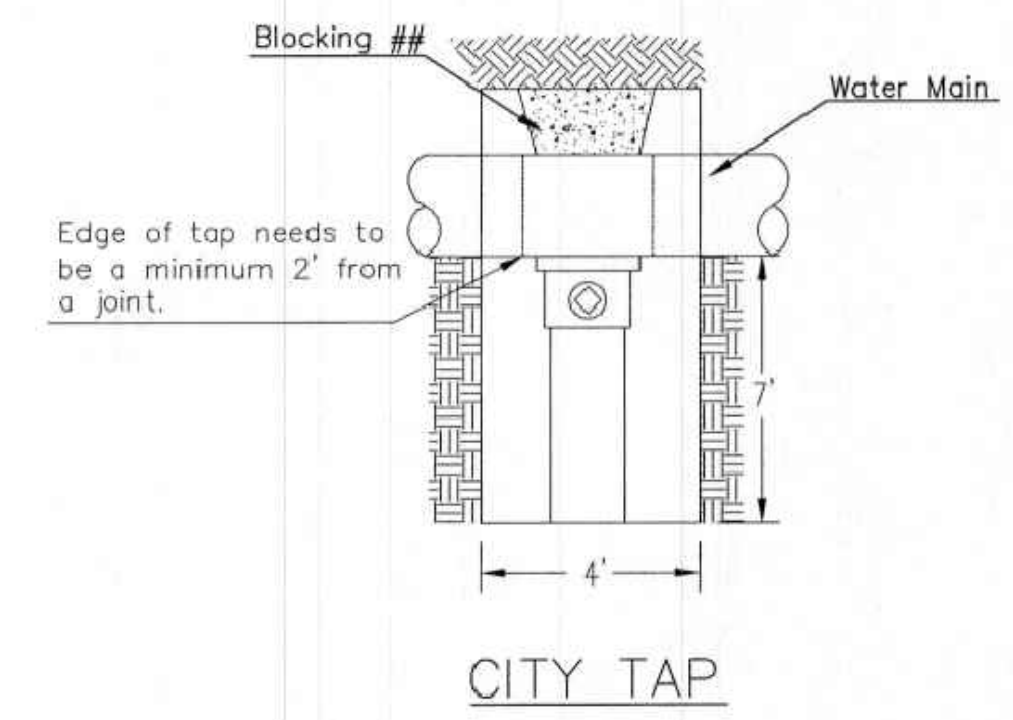


**MATERIALS LIST**  
 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)  
 1-MJ ANCHOR COUPLING (12" OR SMALLER)  
 1-6" VALVE BOX  
 CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

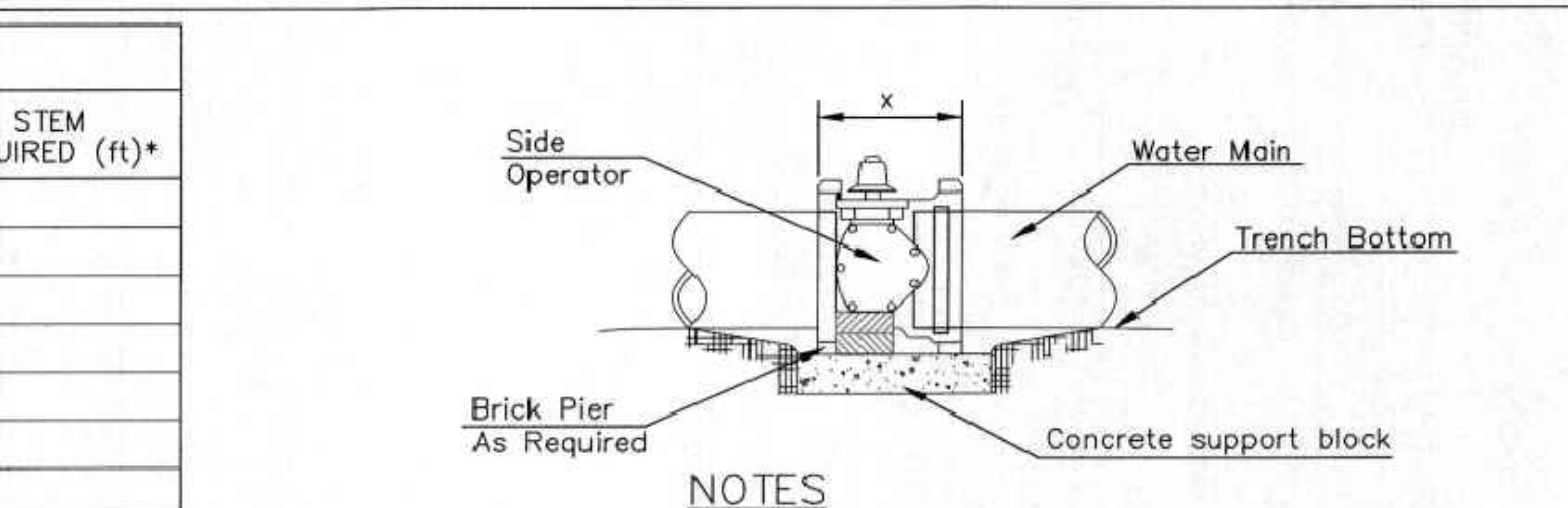
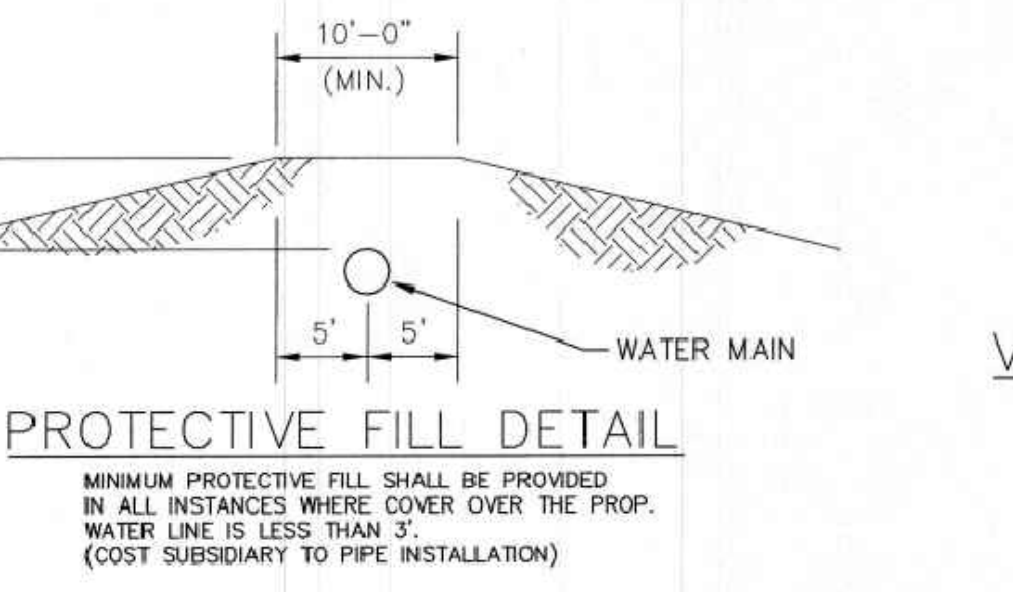


**Notes:**  
 1. Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.  
 2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.  
 3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

VALVE	THRUST AT 150 #/sq ft
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

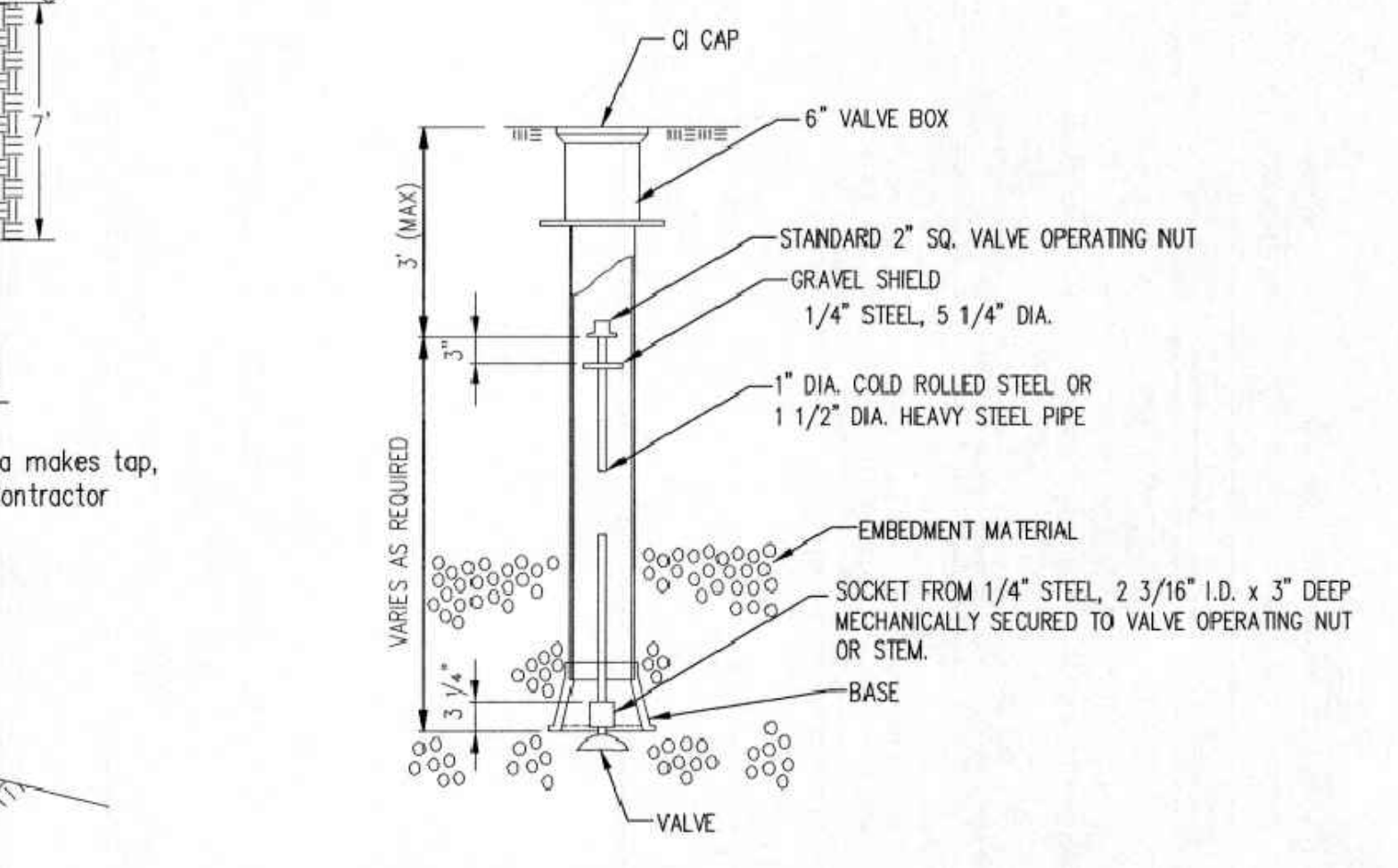


## When the City of Wichita makes tap, blocking is to be done by Contractor

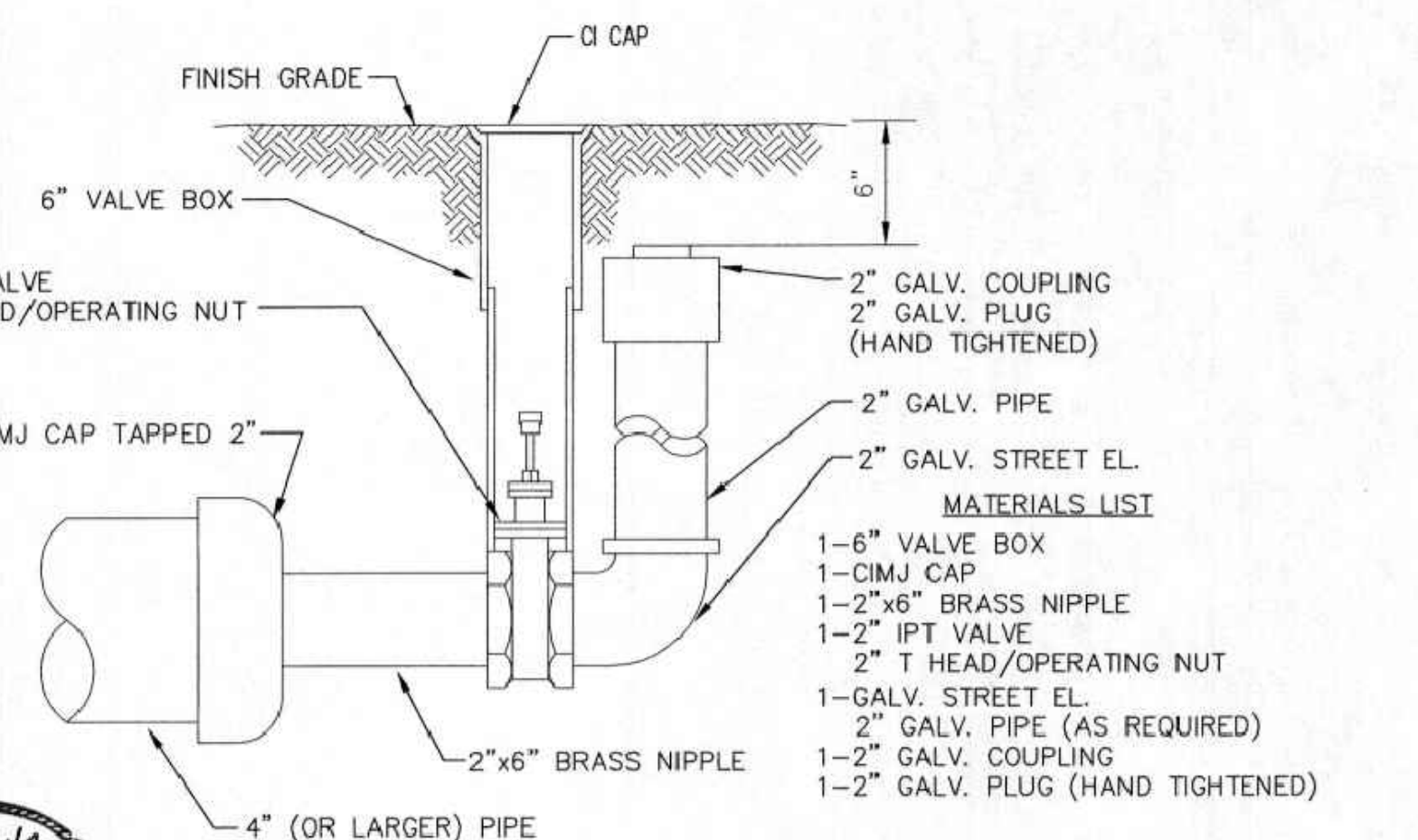


**NOTES**  
 1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.  
 2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.  
 3. Conc. Support Block to be full width of trench.

**CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION**



**VALVE STEM EXTENSION DETAIL**  
 NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



STANDARD WATER ASSEMBLY DETAIL		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR		SHEET

REVISED: OCTOBER 2016