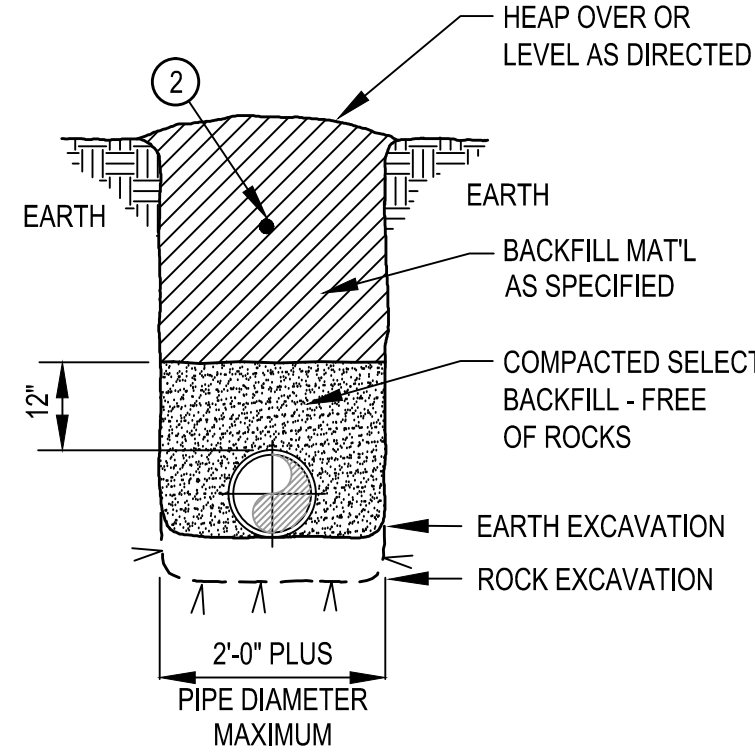
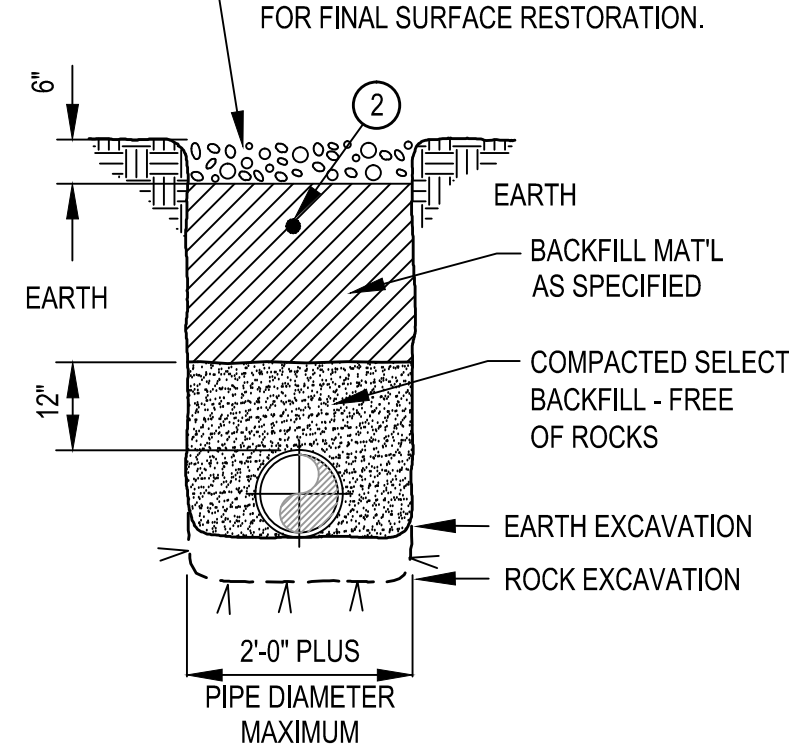


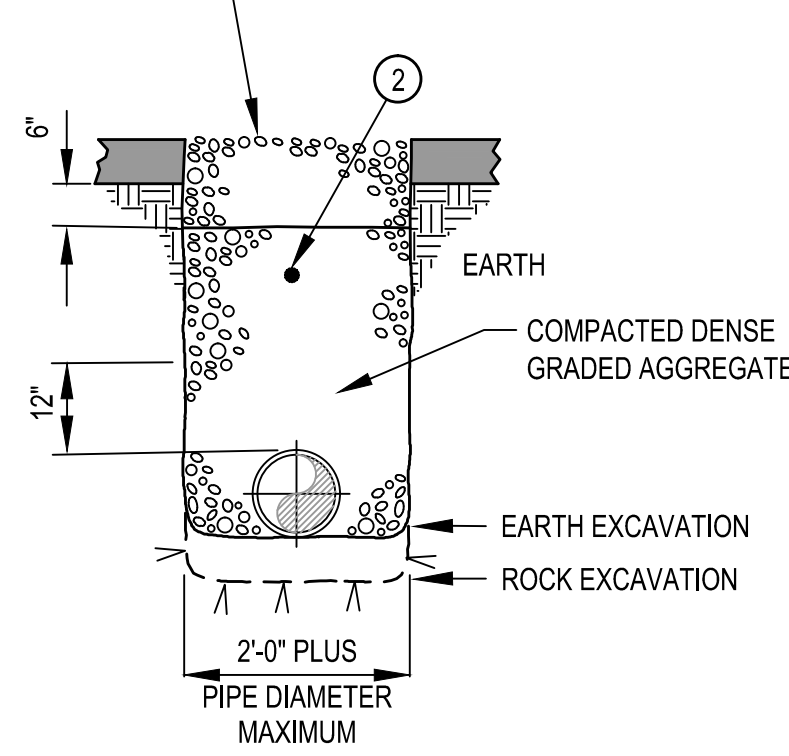
NOTE:  
① SEE SPECIFICATIONS FOR DEPTH REQUIREMENT OF PIPE.  
② LOCATOR WIRE, IF REQUIRED, SEE "DETECTABLE WIRE DETAIL" FOR CORRECT PLACEMENT.



**METHOD "A"**  
(IN OPEN TERRAIN)



**METHOD "B"**  
(UNDER SIDEWALKS & UNPAVED DRIVEWAYS)

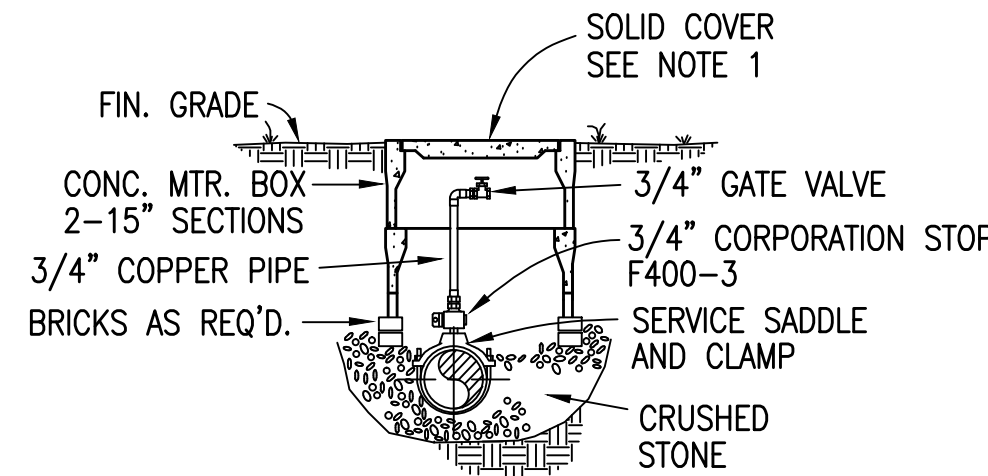


**METHOD "C"**  
(UNDER PAVED STREETS, ROADS & DRIVEWAYS)

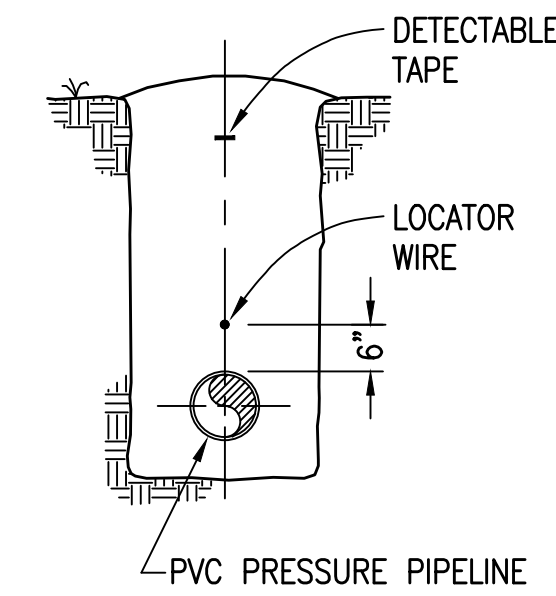
## PRESSURE PIPE BEDDING & BACKFILLING DETAILS

NOT TO SCALE

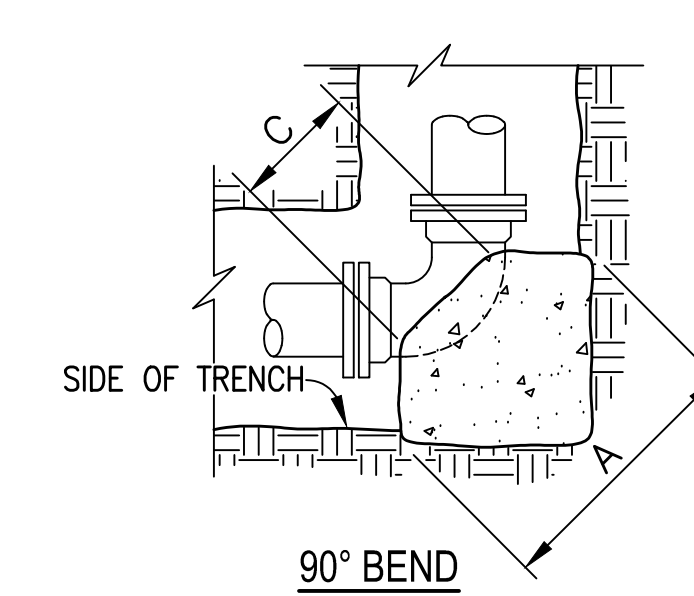
- NOTES:
- 17"x28" CONC. METER BOX - AS MANUF. BY BROOKS PRODUCTS, INC. MEMPHIS, TN - OR APPROVED EQUAL. USE EXTENSIONS AS REQ'D.
  - PLACE MANUAL AIR BLEED VALVE @ HIGH POINT IN LINE (SHOWN ON PLANS)
  - SEAL SLOTS IN METER BOX W/NON-SHRINK GROUT.
  - ALL ACCESSARY VALVES AND PIPING SHALL BE BRASS UNLESS OTHERWISE NOTED.



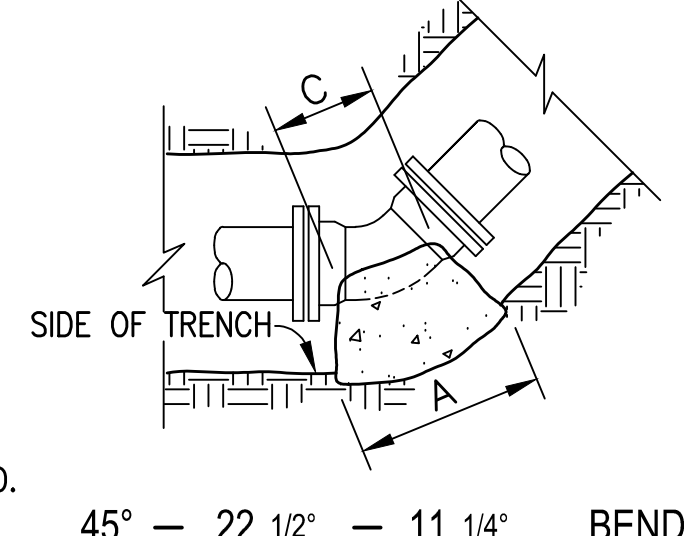
**SAMPLE TEST HOSE BIBB**  
NOT TO SCALE



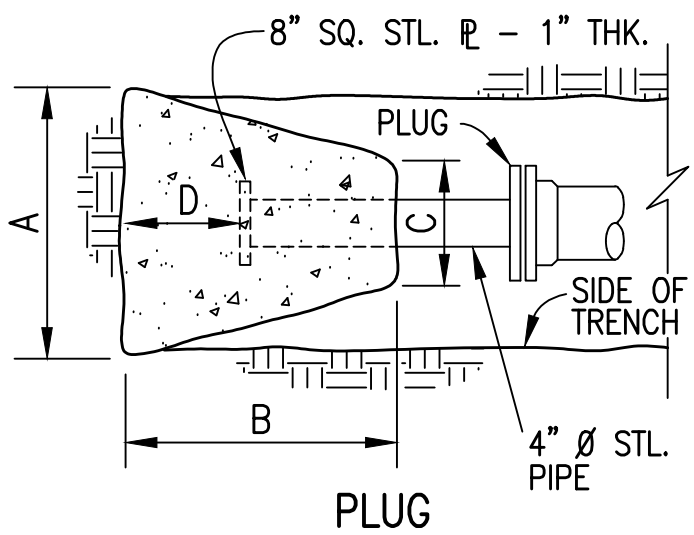
**DETECTABLE WIRE DETAIL**  
NOT TO SCALE



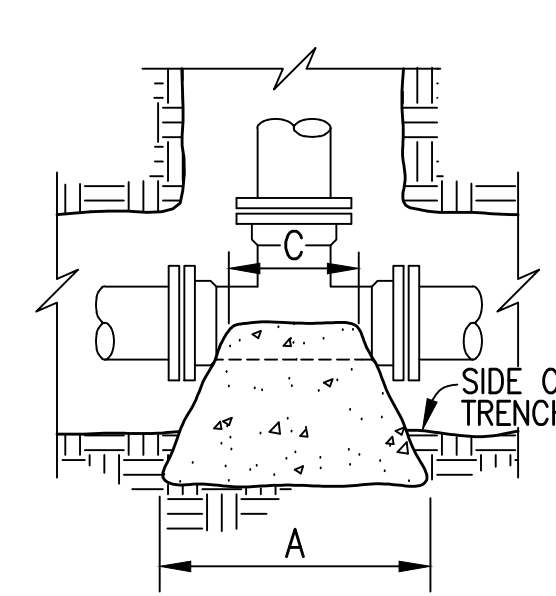
**90° BEND**



**45° - 22 1/2° - 11 1/4° BEND**

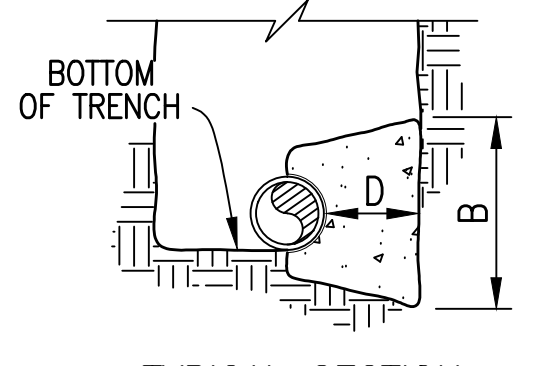


**PLUG**



**TEE**

- NOTES:
- THRUST BLOCKS DESIGNED FOR 200 PSI PRESSURE AND 2000 PSF SOIL BEARING. FOR GREATER PRESSURE OR LESS SOIL BEARING, QUANTITIES WILL HAVE TO BE RECALCULATED.
  - THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
  - IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
  - THRUST BLOCKING TO BE POURED IN PLACE CLASS C CONC.



**TYPICAL SECTION**

90° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	84	60	51	42	32	24	18
B	72	60	51	42	32	24	18
C	30	18	16	12	12	9	9
D	34	30	24	17	13	9	9

45° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	58	43	38	32	24	18	12
B	58	43	38	32	24	18	12
C	24	16	14	12	12	8	8
D	24	18	15	12	9	6	6

22 1/2° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	42	32	27	24	18	12	9
B	42	32	27	24	18	12	9
C	18	16	14	12	10	8	8
D	18	13	11	9	6	4	4

11 1/4° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	30	24	21	17	12	9	9
B	30	24	21	17	12	9	9
C	18	16	14	12	10	8	8
D	12	9	8	6	5	4	4

PLUG							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	66	52	43	34	27	20	18
B	66	52	43	34	27	20	18
C	12	12	12	12	12	12	12
D	44	32	22	15	11	11	11

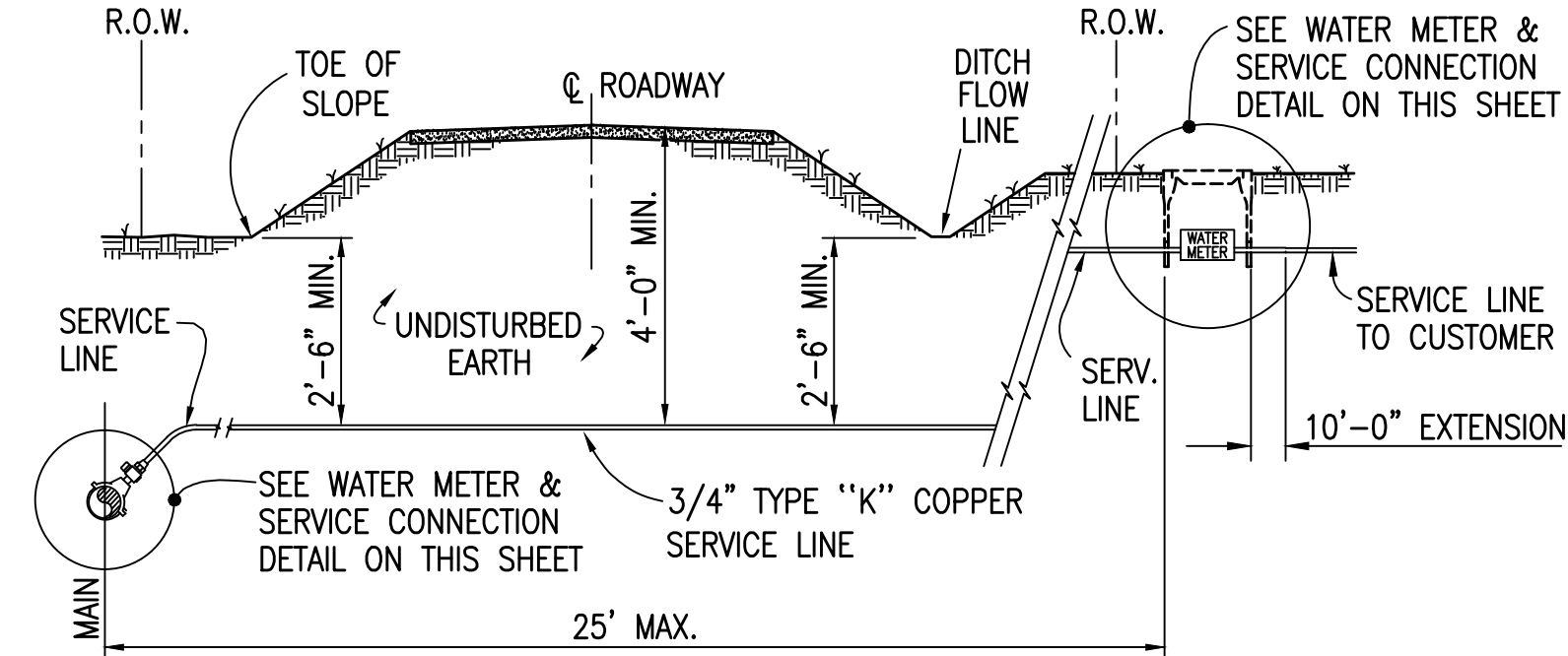
TEE							
SIZE	MAIN	16"	12"	10"	8"	6"	2"
A	66	52	43	34	27	20	18
B	66	52	43	34	27	20	18
C	30	12	12	12	12	12	12
D	30	26	21	14	21	13	13

DIMENSIONS ARE IN INCHES

## THRUST BLOCKING DETAIL

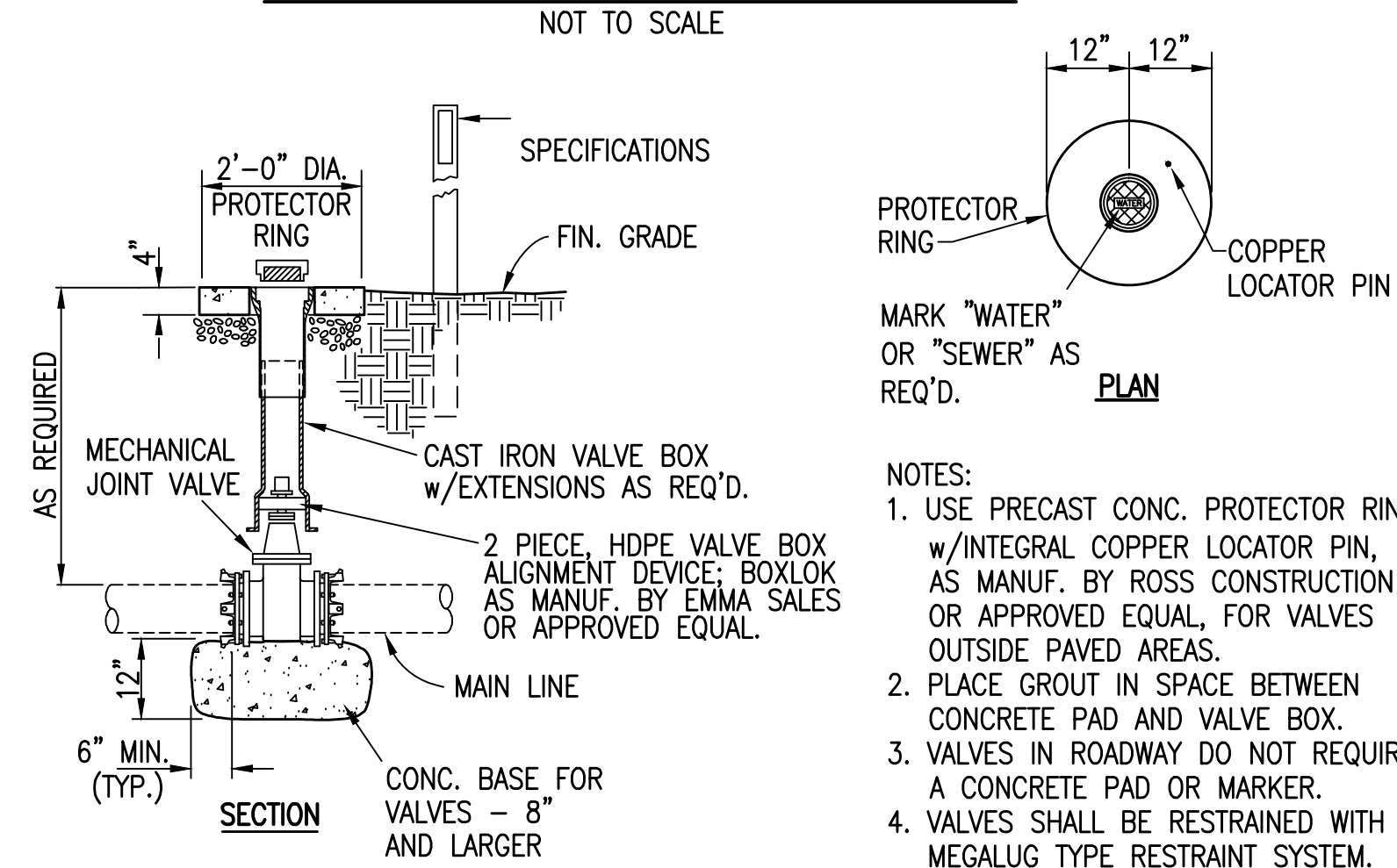
NOT TO SCALE

- SERVICE CONNECTION UNDER ROADWAY LUMP SUM BID ITEM INCLUDES:
- METER BOX INSTALLATION AND APPURTENANCES
  - BORE & JACK SERVICE LINE UNDER ROADWAY
  - WATER MAIN CONNECTION AND APPURTENANCES

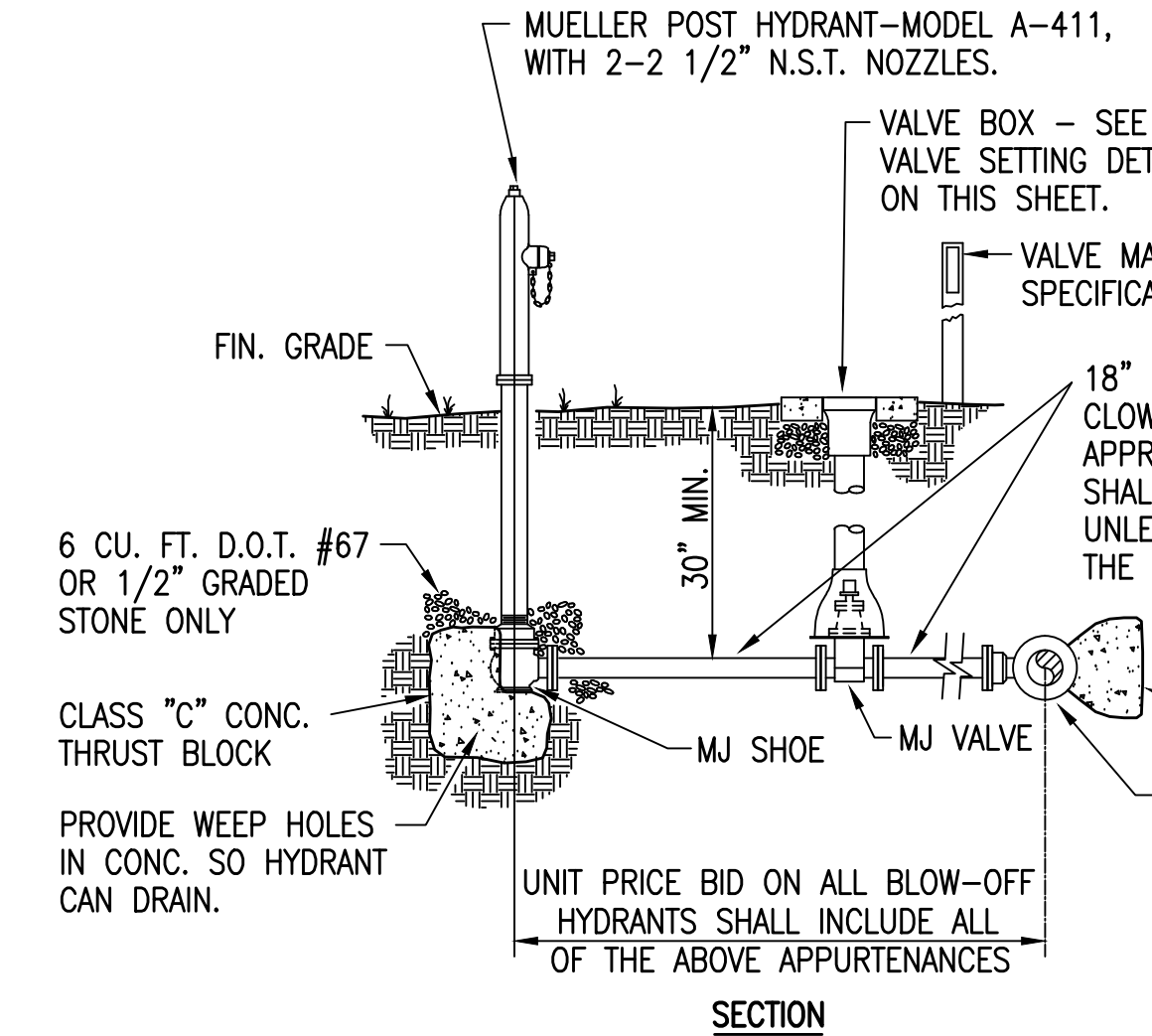


## TYPE "B" SERVICE CONNECTION UNDER ROADWAY

NOT TO SCALE

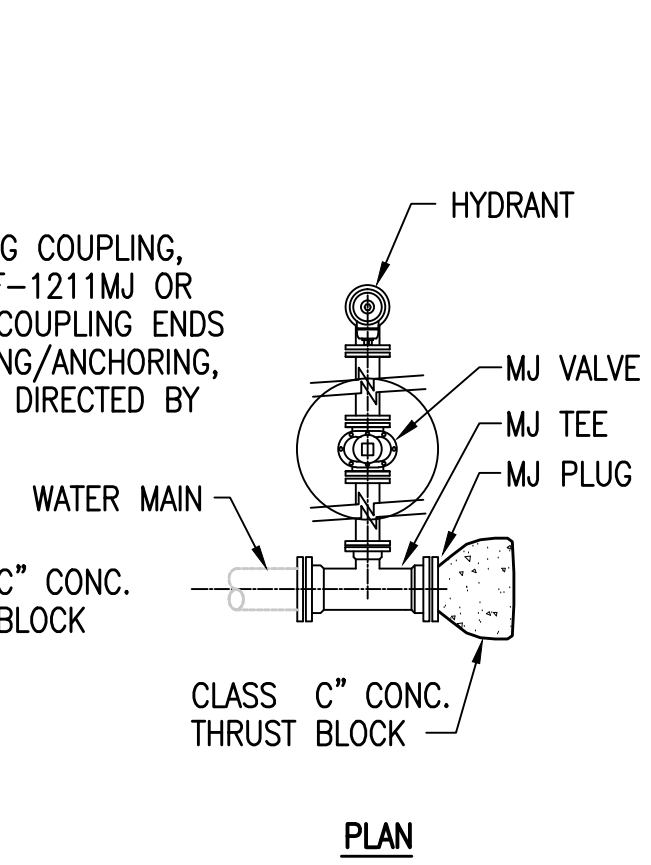


- NOTES:
- USE PRECAST CONC. PROTECTOR RING w/INTEGRAL COPPER LOCATOR PIN, AS MANUF. BY ROSS CONSTRUCTION OR APPROVED EQUAL, FOR VALVES OUTSIDE PAVED AREAS.
  - PLACE GROUT IN SPACE BETWEEN CONCRETE PAD AND VALVE BOX.
  - VALVES IN ROADWAY DO NOT REQUIRE A CONCRETE PAD OR MARKER.
  - VALVES SHALL BE RESTRAINED WITH MEGALUG TYPE RESTRAINT SYSTEM.

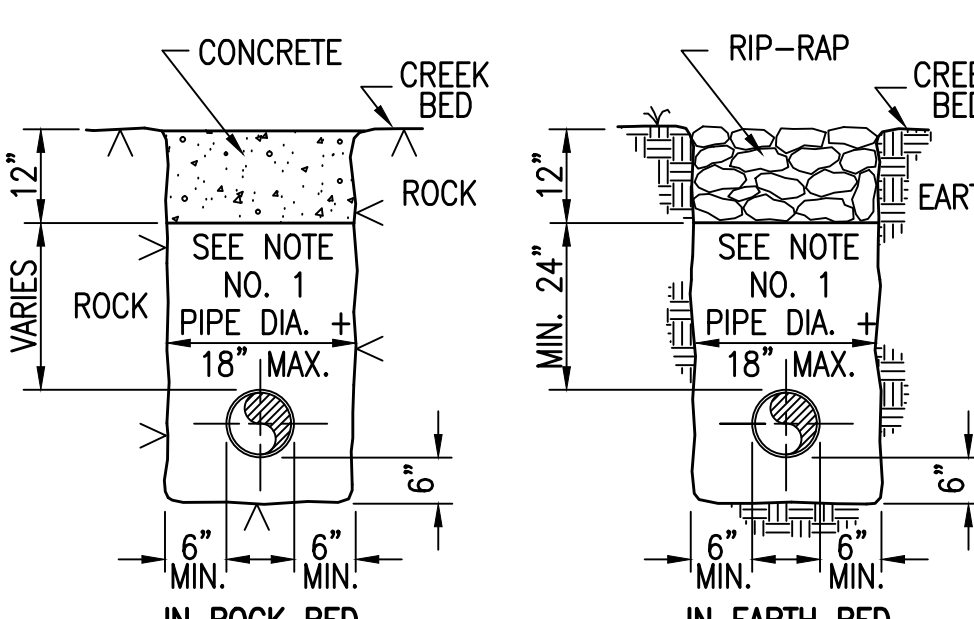


**BLOW-OFF ASSEMBLY**  
NOT TO SCALE

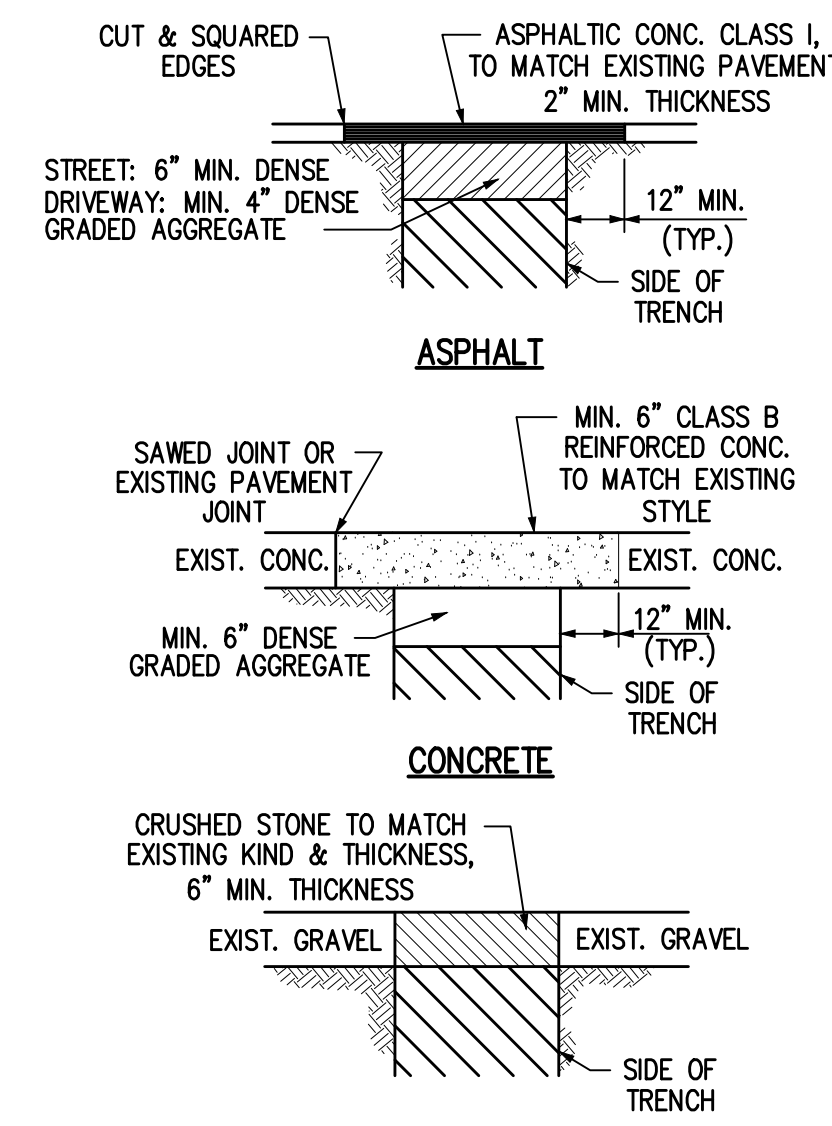
- NOTES:
- SET HYDRANT 12' TO 15' OFF EDGE OF PAVEMENT (MIN.).
  - CAP AND BLOCK TEE FOR END OF LINE APPLICATIONS.



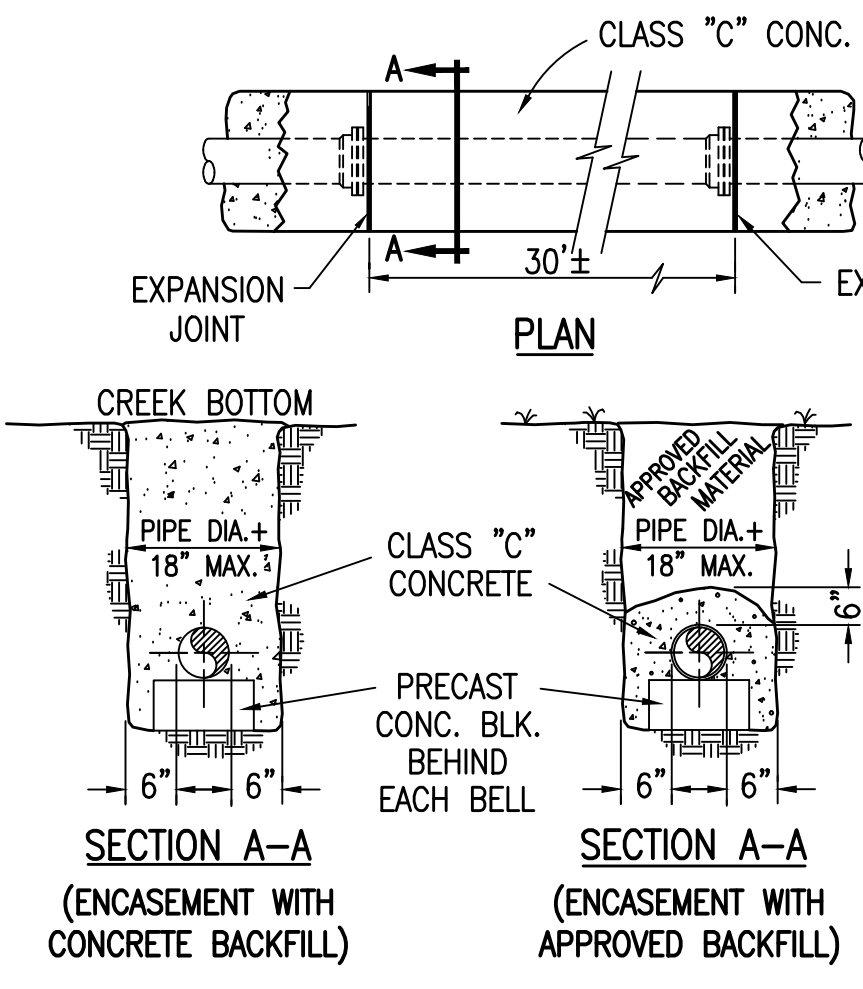
- NOTES:
- CRUSHED STONE OR CONCRETE AS REQUIRED.



**STANDARD DITCH CROSSING DETAIL**  
NOT TO SCALE

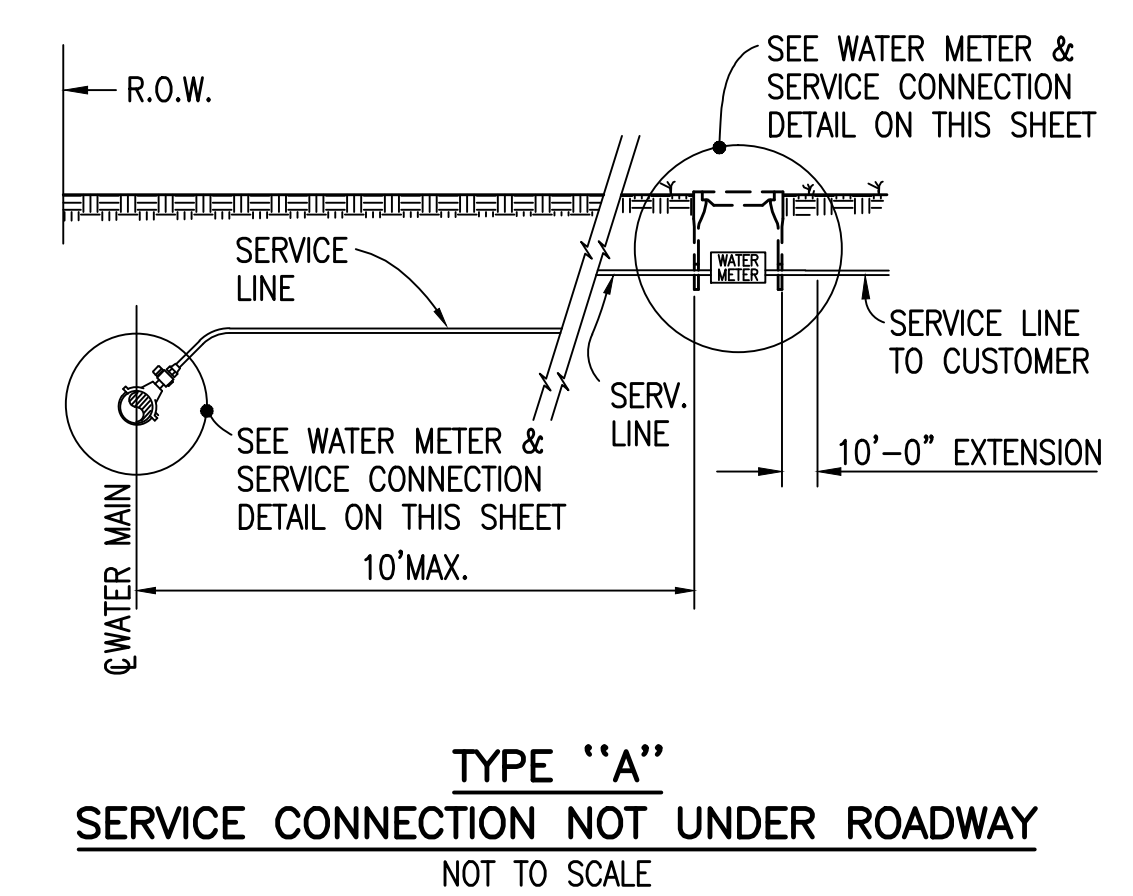


**PAVEMENT REPLACEMENT DETAILS**  
NOT TO SCALE

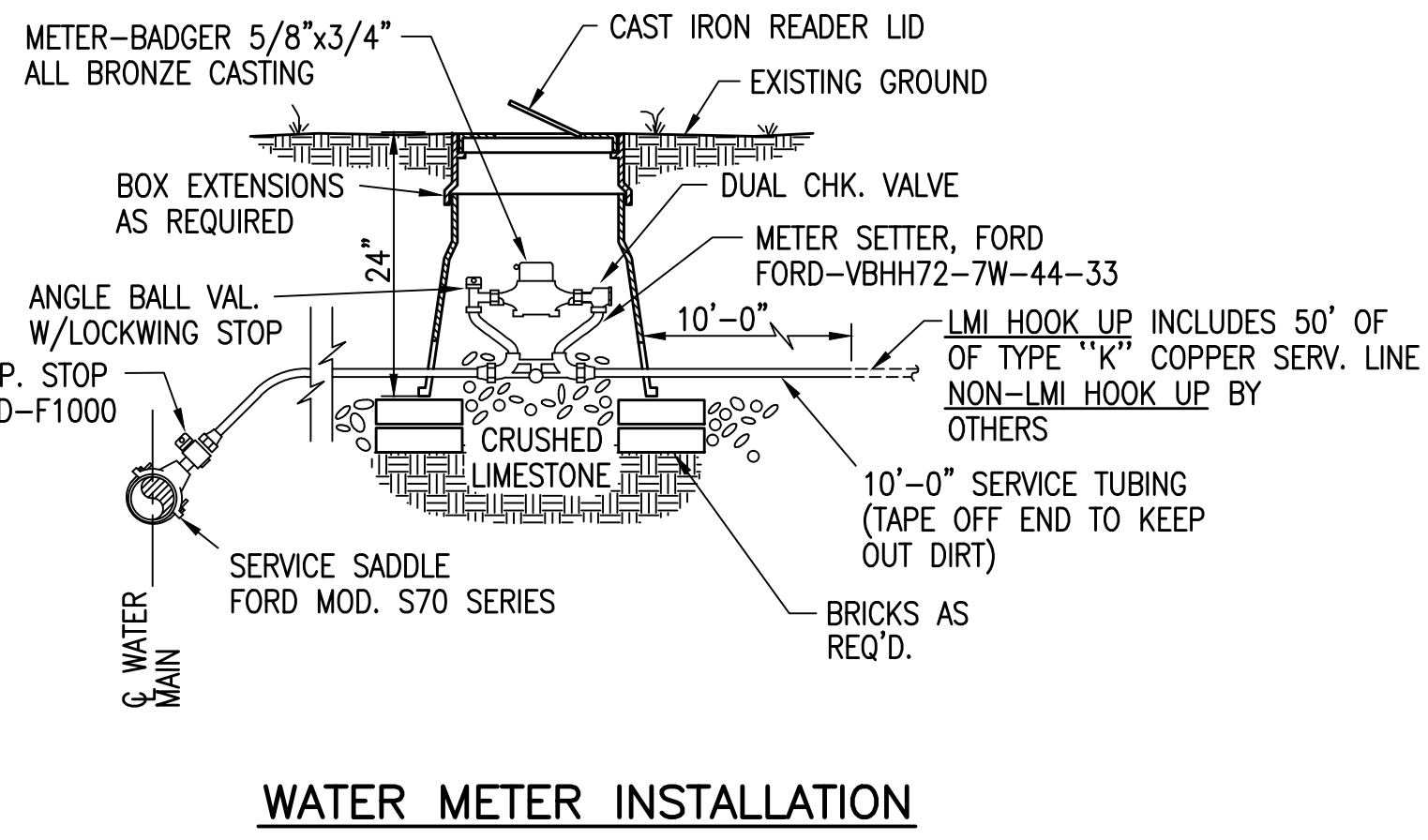


**STANDARD CONCRETE ENCASEMENT**  
NOT TO SCALE

- SERVICE CONNECTION NOT UNDER ROADWAY LUMP SUM BID ITEM INCLUDES:
- METER BOX INSTALLATION AND APPURTENANCES
  - WATER MAIN CONNECTION AND APPURTENANCES



**TYPE "A" SERVICE CONNECTION NOT UNDER ROADWAY**  
NOT TO SCALE



**WATER METER INSTALLATION AND SERVICE LINE CONNECTION**  
NOT TO SCALE

GRW PROJECT NO. 3927-02

CLIENT PROJECT NO.

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STANDARD WATER LINE DETAILS

WATER LINE EXTENSION  
CITY OF LOBELVILLE AND PERRY COUNTY TENNESSEE

REVISIONS	NO.	DATE	BY	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED	SCALE	SHEET NO.
					JWH	SH	JWH	JWH		
DATE: SEPTEMBER 2013										
SCALE: AS NOTED										
THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED										