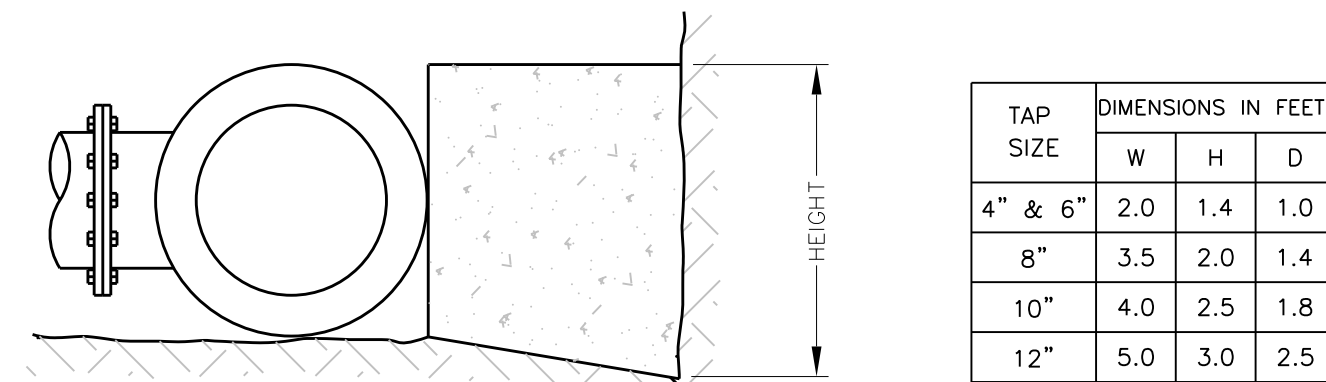


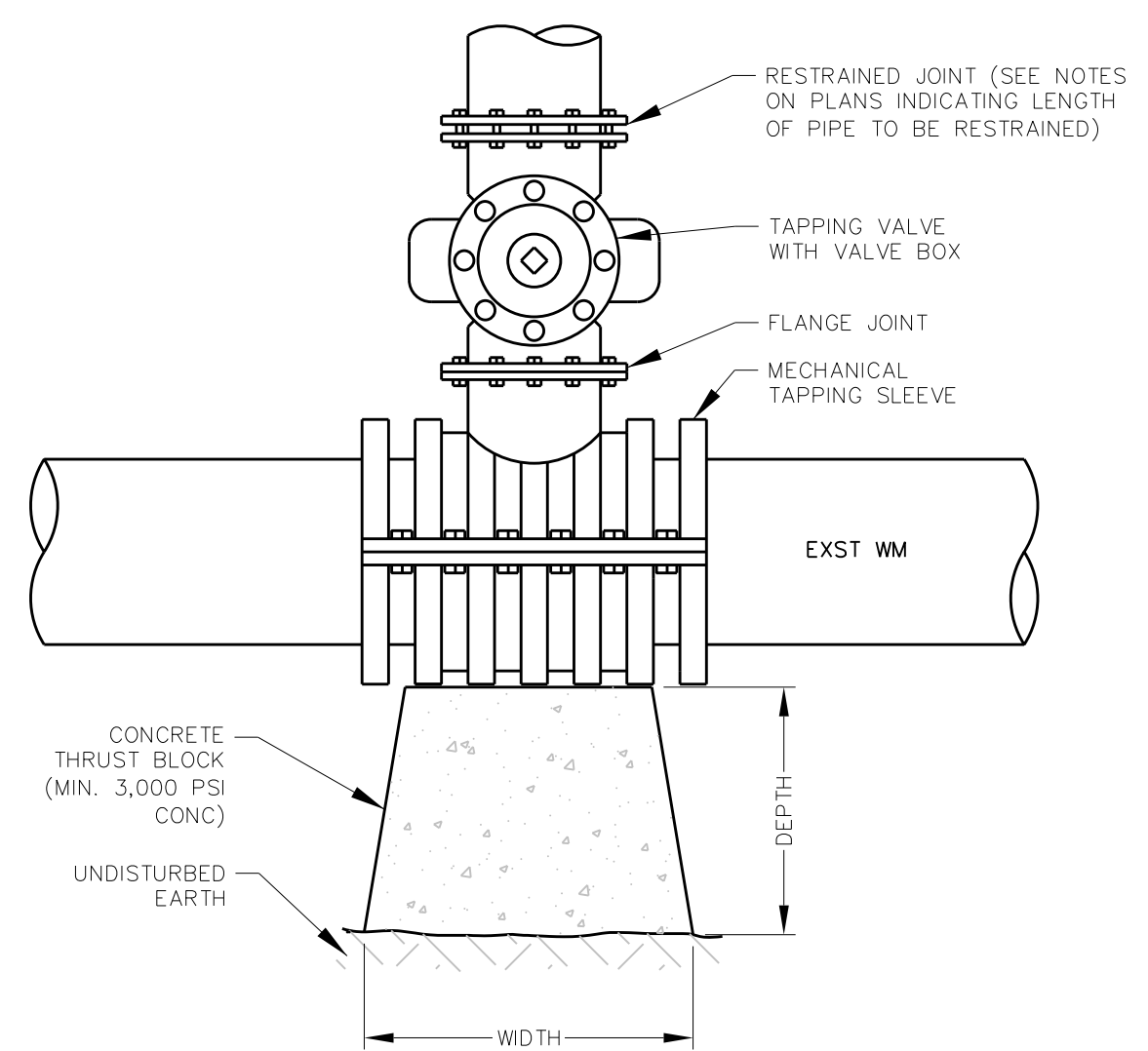
PROJECT REFERENCE NO.	SHEET NO.
R-5861	UC-3A
DESIGNED BY: KTC	
DRAWN BY: ATL	
CHECKED BY: GHH	
APPROVED BY: GHH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

PROJECT TYPICAL DETAILS

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

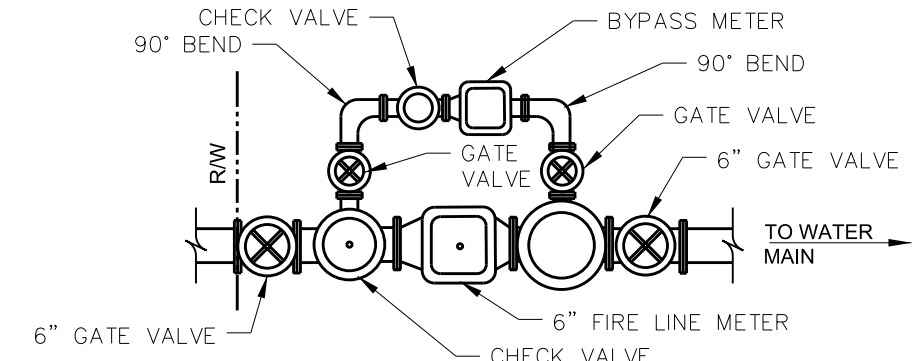


TAP SIZE	DIMENSIONS IN FEET		
	W	H	D
4" & 6"	2.0	1.4	1.0
8"	3.5	2.0	1.4
10"	4.0	2.5	1.8
12"	5.0	3.0	2.5

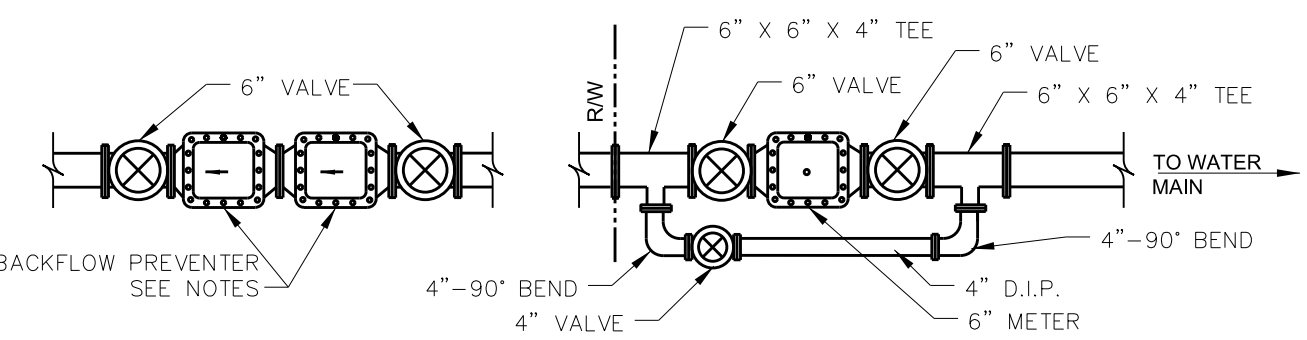


TYPICAL TAPPING SLEEVE AND VALVE DETAIL
NOT TO SCALE

- NOTES:**
1. BASED ON 100 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER ALLOWANCE
 2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND WITH 2000 PSF BEARING CAPACITY
 3. THRUST BLOCKS TO BE USED AT ALL LINES OPERATING UNDER PRESSURE.
 4. KEEP ALL PIPING JOINTS CLEAR OF THRUST BLOCKS.
 5. POOR SOIL A-4-A-8, SILTY SOILS, CLAYS, MUCK, AND PEAT WILL REQUIRE LARGER THRUST BLOCKS.

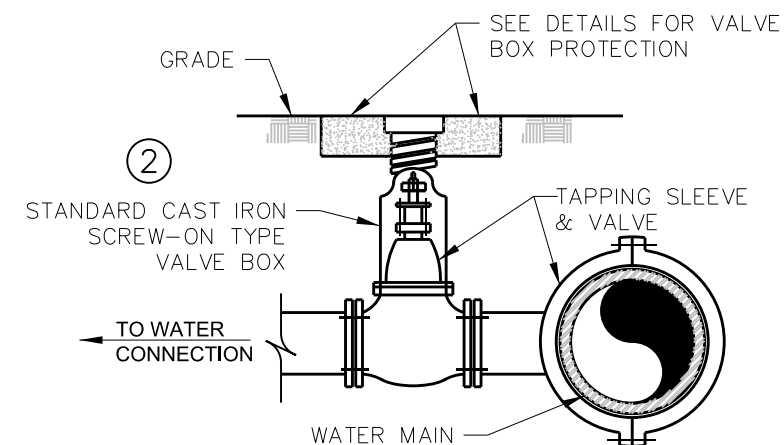


FIRE SERVICE COMBINED WITH DOMESTIC SERVICE (TYPICAL)



SERVICE CONNECTION 4" & OVER WITHOUT FIRE SERVICE

NOTE:
BACKFLOW PREVENTERS MAY BE HOUSED INSIDE BUILDING OR IN SEPARATE VALVE PIT



SERVICES 2" AND LARGER

- NOTE:**
1. SIZE-ON-SIZE TAPPING SLEEVES SHALL BE MECHANICAL JOINTS.
 2. SMALLER TAPS ONTO LARGER LINES MAY USE FABRICATED TAPPING SLEEVES AND VALVES

TYPICAL SERVICE CONNECTIONS

NOT TO SCALE

- NOTES:**
1. FIRE SERVICE METER ASSEMBLY UTILIZES ONLY ONE LINE FOR FIRE PROTECTION SERVICE AND DOMESTIC WATER SERVICE. ONLY ONE METER BOX REQUIRED TO HOUSE SERVICE TO PROPERTY.
 2. THE SIZES OF FIRE LINE METER AND BYPASS METER VARIES WITH APPLICATION.
 3. METERS AND BACKFLOW PREVENTERS ARE IN SEPARATE PITS NORMALLY.
 4. TYPE OF BACKFLOW PREVENTER VARIES WITH APPLICATION.
 5. METERS ARE INSTALLED BY TOWN FORGES AT OWNER'S EXPENSE.
 6. ALL VALVES MUST MEET SPECIFICATIONS.
 7. VALVES NOT IN PITS WILL BE IN CAST IRON BOXES WITH CAST IRON LIDS AS SHOWN IN MUELLER CATALOG W-103, OR APPROVED EQUAL.
 8. ALL D.I. PIPE JOINTS TO BE FLANGED.
 9. ALL COPPER JOINTS TO BE FLARED.
 10. SERVICE LINES 2" AND SMALLER NOT SPECIFIED IN THE DRAWINGS SHALL BE POLYETHYLENE PE 3408 DR-11 CLASS 160 CTS TUBING WITH BRASS FITTINGS. SERVICE SADDLES ARE REQUIRED ON ALL SERVICE CONNECTIONS 2" OR SMALLER ON ALL WATER MAINS. SERVICE SADDLES USED TO MAKE SERVICE CONNECTIONS SHALL PROVIDE FULL SUPPORT AROUND THE CIRCUMFERENCE OF THE WATER MAIN. DIRECT SERVICE TAPS ON WATER MAINS SHALL NOT BE ALLOWED.
 11. WHEN THE TOWN ELECTS TO INSTALL THE SERVICE ON NEW MAINS, THE CONTRACTOR SHALL STUBOUT THE SERVICE WITH A FLANGED TO MECHANICAL JOINT VALVE.
 12. ALL PRESSURE REDUCING BACKFLOW PREVENTERS SHALL BE IN ACCORDANCE WITH NCDEQ REQUIREMENTS.
 13. METER BOXES FOR METERS 2" AND SMALLER WITHIN THE TRAVELED WAY MUST BE CAST IRON OR CONCRETE. METER BOXES OUTSIDE THE TRAVELED WAY MAY BE CAST IRON, CONCRETE, OR PLASTIC. CAST IRON METER READER COVERS ARE REQUIRED. FOR METERS 3" AND LARGER REFER TO THE STANDARD DETAIL.

9/25/2023
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