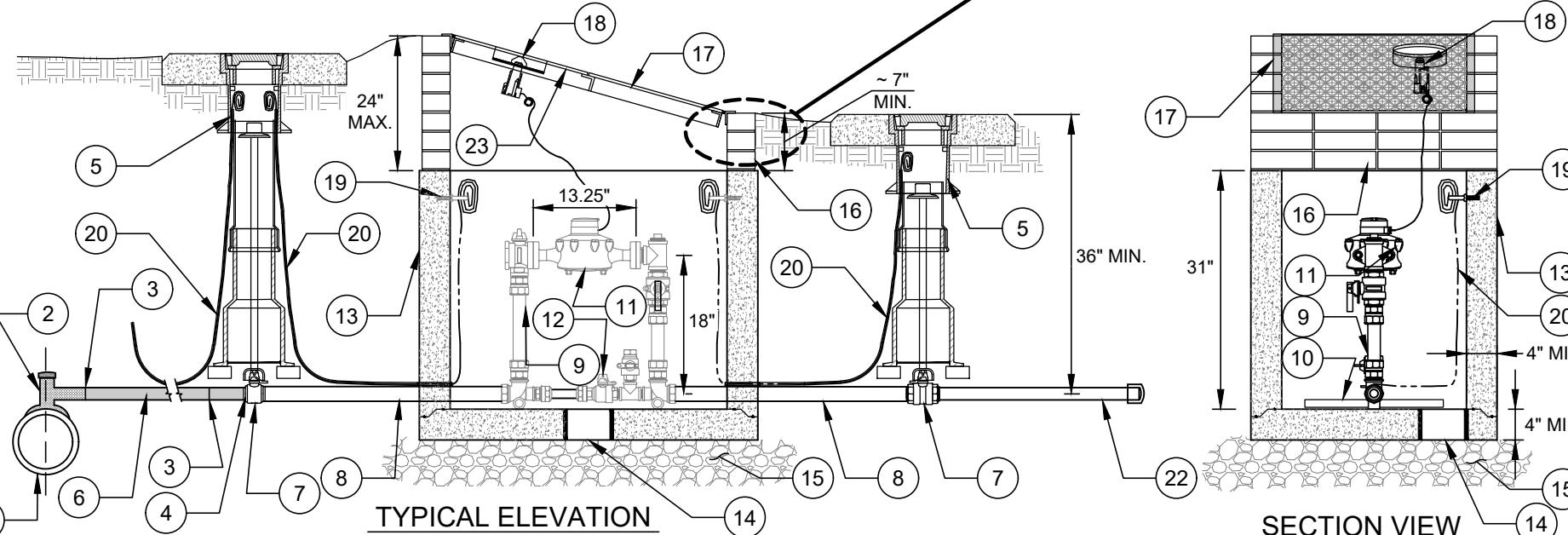
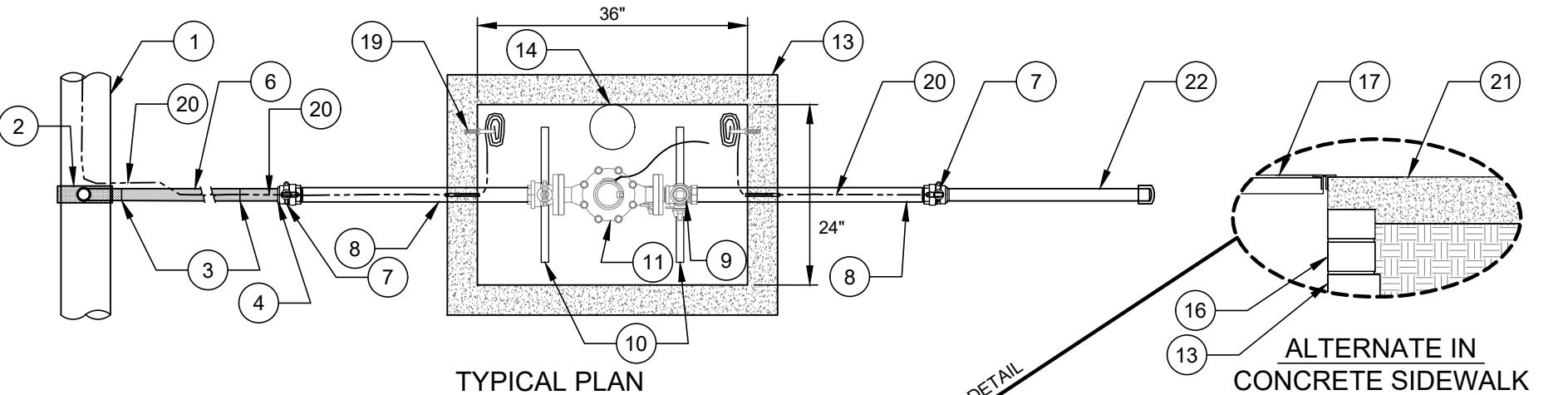


NOTES:

- A. ALL FLANGE HARDWARE (BOLT/WASHER/NUT) SHALL BE STAINLESS STEEL - TYPE 304 WITH ANTI-SEIZE COMPOUND.
- B. ALL PIPE SHALL BE RESTRAINED FROM TAP TO PROPERTY LINE VALVE.
- C. VAULT SHALL BE RATED FOR NCDOT HS-20 LOADING - SUBMIT SHOP DRAWINGS / P.E. SEALED FOR REVIEW.
- D. ALL CONCRETE SHALL BE MINIMUM 3,600 PSI COMPRESSIVE STRENGTH.
- E. DESIGN SHALL CONFORM TO ASTM C858 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".
- F. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857.
- G. REBARS SHALL BE GRADE 60 PER ASTM A615.
- H. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- I. DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS.
- J. PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (MANHOLE BOOTS) OR WITH 4" OF BRICK & MORTAR (AND 1/2-INCH THICK CONSTRUCTION EXPANSION MATERIAL AROUND THE PIPE).
- K. FRAME TO BE FLUSH WITH GROUND OR CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.



NO.	DESCRIPTION:
1.	HDPE WATER MAIN.
2.	HDPE SERVICE TAPPING SADDLE WITH T-HEAD OPERATING NUT, AND CAP AND CUTTER.
3.	HDPE BUTT FUSION JOINT.
4.	BUTT FUSION X THREADED (MNPT) ADAPTER.
5.	STANDARD VALVE BOX ASSEMBLY (TYP.) - ALL VALVES (OMIT AT CORPORATION STOP ON SHORT SIDE SERVICE).
6.	1 1/2" SDR-9 IPS HDPE PIPE.
7.	1 1/2" BRASS BALL VALVE (FNPT X FNPT).
8.	1 1/2" RED BRASS PIPE NIPPLE (L = 30").
9.	1 1/2" BRASS METER SETTER ASSEMBLY - NO SOLDER JOINTS PERMITTED. SEE TECHNICAL SPECIFICATIONS.
10.	1" SCH 40 RED BRASS NIPPLE (L = 18") X 2 EACH.
11.	1 1/2" WATER METER ASSEMBLY WITH AMR TRANSMITTER (BY CONTRACTOR).
12.	BY PASS BALL VALVE WITH LOCK WINGS - LOCK VALVE IN CLOSED POSITION (SERIAL NUMBERED STUD LOCK - FURNISHED BY CLTW).
13.	PRECAST CONCRETE SERVICE VAULT (36" X 24" X 31").
14.	6" DIAMETER SUMP HOLE.
15.	6" COMPAKTED #57 WASHED STONE.
16.	MINIMUM OF (3) STANDARD SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME, MAXIMUM 2'. SEE NOTE M.
17.	24" X 36" ACCESS DOOR - SEE STANDARD DETAIL.
18.	AMR TRANSMITTER.
19.	3/8" DIAMETER GALV. STEEL EYE BOLT (ADHESIVE ANCHOR) - TYPICAL.
20.	AWG #12 GAUGE SOLID COPPER TRACER WIRE 30 MILS BLUE HDPE INSTALLATION - TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYP.).
21.	CAST IN PLACE CONCRETE SIDEWALK - BRICK WORK SHALL NOT EXTEND TO SURFACE, ACCESS DOOR SHALL REST ON SIDEWALK.
22.	1 1/2" TYPE K COPPER TUBING TAIL PIECE - L = 24" MIN. - BRASS OR PVC CAP END.
23.	ATTACH ENGRAVED LABEL, WITH PREMISE NUMBER, TO UNDERSIDE OF DOOR, NEAR THE LIFTING HANDLE.

**1.5" HDPE SERVICE CONNECTION AND VAULT
ON HDPE WATER MAIN**

NO SCALE
VERSION 2.0
DATE 01/2026
DETAIL 15.1.2

CHARLOTTE WATER
A CITY OF CHARLOTTE DEPARTMENT
WATER METERS

CHARLOTTE
WATER