- ALL FLANGE HARDWARE (BOLT/WASHER/NUT) SHALL BE STAINLESS STEEL TYPE 304 WITH ANTI-SEIZE COMPOUND.
- ALL PIPE SHALL BE RESTRAINED JOINT DUCTILE IRON FROM TAP TO PROPERTY LINE VALVE.
- METER CONFIGURATION AND LENGTH / WIDTH MAY VARY DUE TO BRAND VERIFY DIMENSIONS TO DETERMINE MINIMUM VAULT SIZE.
- VAULT SHALL BE SIZED AS NEEDED FOR MINIMUM CLEARANCE AS SHOWN AND RATED FOR NCDOT HS-20 LOADING -SUBMIT SHOP DRAWINGS / P.E. SEALED FOR REVIEW.
- ALL CONCRETE SHALL BE MINIMUM 4.000 PSI COMPRESSIVE STRENGTH.

R

11 13/16"

13 29/64"

25 7/8"

34 1/4"

21 3/4"

SIZE

53"

- DESIGN SHALL CONFORM TO ASTM C858 SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY
- STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857.
- REBARS SHALL BE GRADE 60 PER ASTM A615.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS.
- PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (MANHOLE BOOTS) OR WITH 8" OF BRICK & MORTAR (AND 1/2-INCH THICK CONSTRUCTION EXPANSION MATERIAL).
- FRAME TO BE FLUSH WITH GROUND OR CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.
- ALL JOINTS SHALL BE MADE WATERTIGHT USING 2 RINGS OF BUTYL RUBBER JOINT MASTIC.
- ALL VALVES SHALL BE OPEN RIGHT CLOCKWISE, EXCEPT NO. 16.
- PRECAST VAULT COMPONENTS SHALL HAVE MARKINGS PER ASTM C478 REQUIREMENTS.
- 10' (MIN.) - 3/4" TAP/PLUGGED -FOR TESTING ALTERNATE SCHEMATIC (FOR LIMITED SPACE INSTALLATIONS) В (6) WATER MAIN 1'Ø SUMP HOLE -LAY LENGTH = 16' (MIN.) **TYPICAL PLAN** ALTERNATE IN CONCRETE SIDEWALK (33) HEIGHT TO REMOVE STRAINER ELEMENT (MIN 18" -(19) (MIN.) (MIN -(15) 6" MIN. #57 WASHED STONE **ELEVATION VIEW B-B SECTION VIEW A-A** DIMENSION B - H VARY SLIGHTLY - AS DETERMINED BY MANUFACTURER. METER

G

12 1/2"

Н

17"

Κ

SMITH-BLAIR = 9"

ROMAC = 9"

NO. DESCRIPTION:

- 8" OUTLET TAPPING SLEEVE AND 8" FL X MJ TAPPING VALVE ON EXISTING MAIN. 8" MJ OUTLET TEE, 8" FOSTER ADAPTOR AND 8" MJ GATE VALVE ON NEW MAIN.
- STANDARD VALVE BOX ASSEMBLY (TYPICAL) ALL VALVES.
- 8" DUCTILE IRON PIPE RESTRAINED.
- 8" MJ X FL DUCTILE IRON ADAPTER ON SHORT SIDE SERVICE (NOT SHOWN), 8" MJ X FL GATE VALVE ON LONG SIDE SERVICE (SHOWN).
- 8" ALL FLANGE DUCTILE IRON TEE.
- 8" ALL FLANGE GATE VALVE.
- 8" ALL FLANGE DUCTILE IRON PIPE SPOOL L = 36" (MIN.) (SPECIAL CLASS 53).
- 8" FMCT METER ASSEMBLY (FLANGE X FLANGE)
- STRAINER
- METER WITH AMR TRANSMITTER.
- CHECK VALVE.
- 2" BRASS BALL VALVE WITH HANDLE (FNPT X FNPT). 8.4.
- 8.5. 2" BRASS 90° BEND (FNPT X FNPT).
- 8.6. 2" METER (2 BOLT METER FL - EACH END) WITH TRANSMITTER.
- 2" BRONZE CHECK VALVE (FNPT X FNPT).
- 8.8. 2" BRONZE TEE (FNPT X FNPT X FNPT).
- 8.9. 2" BRONZE PLUG (MNPT).
- 2" RED BRASS PIPE NIPPLES (TYP. AS REQUIRED) -(MNPT X MNPT).
- 2" (MIN.) SQUARE HEAD BRASS PLUG (MNPT).
- 8" DUCTILE IRON 90° BEND FLANGE X FLANGE.
- 8" DUCTILE IRON PIPE FLANGE X FLANGE SPOOL L = 87.5" (MIN.) (SPECIAL CLASS 53).
- 8" X 1 1/2" SERVICE SADDLE WITH 1 1/2" BALL CORPORATION STOP - CC - TAPER THREAD.
- 8" DUCTILE IRON PIPE FLANGE X PE L = 20" (MIN.) (SPECIAL CLASS 53).
- 8" MECHANICAL JOINT DUCTILE IRON LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINT.
- 8" DUCTILE IRON PIPE FLANGE X PE L = 14" (MIN.) (SPECIAL CLASS 53).
- 8" DUCTILE IRON PIPE FLANGE X PE L = 30" (MIN.) (SPECIAL CLASS 53).
- 8" MECHANICAL JOINT (RJ) GATE VALVE OPEN LEFT AT PROPERTY LINE.
- 8" MECHANICAL JOINT PLUG WITH 2" TAP (FNPT).
- 2" TEMPORARY BLOW OFF ASSEMBLY (GALV. STEEL (SCH 80) END WITH THREADED COUPLING).
- GALV. STEEL OR S.S. ADJUSTABLE FLANGE PIPE SUPPORTS (NUMBER REQUIRED = 4) (WITH STAINLESS STEEL ADHESIVE ANCHORS).
- AMR TRANSMITTERS
- 5' X 6' ACCESS DOOR SEE STD. DETAIL
- PRECAST REINFORCED CONCRETE VAULT 10' X 6' X 5' (MIN.) SEE NOTES C AND D.
- MINIMUM OF THREE STD. SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME - MAX. 2'.
- JOINT REQUIRED AT FLAT TOP SECTION
- 3/8" DIAMETER GALV. STEEL EYE BOLT (EPOXY ADHESIVE ANCHOR) - TYPICAL.
- AWG #12 GAUGE SOLID COPPER TRACER WIRE WITH BLUE INSULATION (30 MILS HDPE) TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYPICAL).
- CAST IN PLACE CONCRETE SIDEWALK BRICKWORK SHALL NOT EXTEND TO SURFACE. ACCESS DOOR FRAME SHALL REST ON SIDEWALK.
- VALVE LOCK AND WARNING TAG (FURNISHED BY CLTW) -LOCK VALVE CLOSED.
- PLASTIC STEP 12" O.C. VERTICAL SPACING
- 8" DISMANTLING JOINT (RESTRAINED) ROMAC DJ400 LL = 7.38" TO 9.38", SET TO 9" OR SMITH-BLAIR #975 - LL = 8" TO 10", SET TO 9".
- 8" EPOXY COATED/LINED STEEL FL X FL SPOOL WITH 2" FNPT TEST OUTLET - LL = 12" (MARS CO.) AND 2" BALL CORPORATION STOP WITH T-HEAD OPERATING NUT - MNPT >
- CONCRETE THRUST BLOCKING 3.600 PSI.
 - ATTACH ENGRAVED LABEL, WITH PREMISE NUMBER, TO UNDERSIDE OF DOOR, NEAR THE LIFTING HANDLE.

JND TYPE (FMCT) CONCRETE VAULT 8-INCH FIRE METER COMPOUND WATER METER AND PRECAST CON

W&TER

HARLOTTE WATER NOTY OF CHARLOTTE DEPARTMENT STANDARD DETAILS WATER METERS

CHARLOTT A CITY OF CHARLOT

NO SCALE VERSION 1.0

04/2024

DETAIL 15.4.10