

# OWNER'S DETAILS (CLTWater)

NOT TO SCALE



PROJECT REFERENCE NO. R-2248G	SHEET NO. UC-3A
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
REVISED:	UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
	2/11/2015 UTILITY CONSTRUCTION PLANS ONLY

**1" OR 3/4" SERVICE CONNECTION**  
(SHORT SIDE - IN PAVEMENT)

**METER BOX IN SIDEWALK**  
(REQUIRES PRIOR CMU APPROVAL)

**NO. DESCRIPTION**

- 1 WATER MAIN
- 2 DOUBLE STRAP SERVICE SADDLE - CC (TAPER) THREAD OUTLET
- 3 BALL CORPORATION STOP - CC (TAPER) THREAD x CTS COMPRESSION
- 4 TYPE K COPPER TUBING OR SDR9 HDPE (POLY) TUBING WITH INSERT STIFFENERS
- 5 5/8" x 3/4" ANGLE BALL VALVE WITH LOCK WINGS - CTS COMPRESSION x YOKE STAR NUT
- 6 5/8" DUCTILE IRON YOKE BAR
- 7 5/8" METER ASSEMBLY (BY CMUD) WITH AMR TRANSMITTER
- 8 5/8" x 3/4" BRASS 90° YOKE STAR NUT x CTS COMPRESSION CONNECTOR
- 9 CONCRETE METER BOX - SEE STD. DETAILS
- 10 HDPE METER BOX LID WITH AMR TRANSMITTER BRACKET
- 11 AWG #12 GAUGE COPPER TRACER WIRE (THWN) - WITH BLUE INSULATION - TERMINATE IN METER BOX WITH 24" EXCESS WIRE (COILED)
- 12 SOLID STANDARD CONCRETE BRICKS - DIAGONAL AT CORNERS - 4 EACH.

**METER DETAIL**  
(SIDE)

**METER DETAIL**  
(END)

**METER BOX IN SIDEWALK DETAIL**  
(BOX SHALL BE SUPPORTED BY CONCRETE SIDEWALK - AS SHOWN)

**NOTE:**

A. MIN. DISTANCE CENTER TO CENTER ON SERVICES OR TO BELLS OR SPIGOTS SHALL BE 3'-0" AS MEASURED ALONG THE MAIN.

B. CENTER ANGLE BALL VALVE - 90° CONNECTOR (5) - (8) IN METER BOX.

C. SHOWN AS 3/4" SERVICE, USE 1" COMPONENTS FOR 1" DOMESTIC SERVICE.

D. TRACER WIRE IS NOT REQUIRED WITH ALL COPPER TUBING SERVICE.

E. WHEN METER BOX MUST BE PLACED IN CONCRETE, IT SHALL BE COMPLETELY IN, AND CENTERED IN CONCRETE PANEL, PER CDOT / NCDOT REQUIREMENTS.

F. CMUD MAINTENANCE ENDS WITH 90° CONNECTOR (8).

**1" OR 3/4" SERVICE CONNECTION**  
(LONG SIDE - PLAN VIEW)

**1" OR 3/4" SERVICE CONNECTION**  
(LONG SIDE - PROFILE VIEW)

**DETAIL AT MAIN**  
(LONG SIDE)

**ROAD WITH SIDE DITCH**

**1" OR 3/4" SERVICE CONNECTION**  
(SHORT SIDE)

**DETAIL AT MAIN**  
(SHORT SIDE)

**NOTE:**

A. MIN. DISTANCE CENTER TO CENTER ON SERVICES OR TO BELLS OR SPIGOTS SHALL BE 3'-0" AS MEASURED ALONG THE MAIN.

B. CENTER ANGLE BALL VALVE - 90° CONNECTOR (5) - (8) IN METER BOX.

C. SHOWN AS 3/4" SERVICE, USE 1" COMPONENTS FOR 1" DOMESTIC WATER SERVICE.

D. TRACER WIRE IS NOT REQUIRED WITH ALL COPPER TUBING SERVICE.

E. WHEN METER BOX MUST BE PLACED IN CONCRETE, IT SHALL BE COMPLETELY IN, AND CENTERED IN CONCRETE PANEL, PER CDOT / NCDOT REQUIREMENTS.

F. CMUD MAINTENANCE ENDS WITH 90° CONNECTOR (8).

**METER BOX BOX**  
PLAN VIEW

**METER BOX BODY**

**LID**

**SECTION A-A**  
RIB DETAIL

**SECTION B-B**  
RIB DETAIL

**BOTTOM VIEW**

**NOTE:**

A. MATERIAL SHALL BE HIGH DENSITY POLYETHYLENE.

B. LOAD RATING = HS20.

C. COLOR SHALL BE CHARLOTTE GRAY.

D. SUPPLIER / MANUFACTURER: SOUTHEASTERN DISTRIBUTORS MODEL MB 16 - HD.

METER BOX BODY WEIGHT = 13.50 LBS.

LID WEIGHT - INCLUDING REBARS - 5.30 LBS.

**3/4 - INCH SERVICE LID**

**1 - INCH SERVICE LID**

# DFW 38C - RSGSM - LID  
WEIGHT - INCLUDING REBARS - 6.50 LBS.

# DFW 65C - RSGSM - LID  
WEIGHT - INCLUDING REBARS - 23.50 LBS.

**NOTE:**

MATERIAL - HIGH DENSITY POLYETHYLENE (HDPE) - RECYCLED

COLOR - CHARLOTTE GRAY

LOAD RATING - HEAVY DUTY

MANUFACTURER - DFW PLASTICS INC. OR APPROVED EQUAL

## UTILITY CONSTRUCTION

NO SCALE  
 STANDARD NO. K-1  
 DATE 5.13.2011  
 CHARLOTTE-MECKLENBURG UTILITIES STANDARD DETAILS WATER

NO SCALE  
 STANDARD NO. PP  
 DATE 7.14.2011  
 WATER METER BOX - PLASTIC LID FOR 3/4 - INCH AND 1 - INCH WATER SERVICES  
 CHARLOTTE-MECKLENBURG UTILITIES STANDARD DETAILS WATER