



NO.	DESCRIPTION
1.	RUN X 12" TEE ( MJ - MJ ) - ROTATE DOWN 56°.
2.	12" 45° BEND ( MJ-PE )
3.	12" 11¼° BEND ( MJ-PE ).
4.	12" DIP ( PE-PE ) LENGTHS AS REQ'D.
5.	12" GATE VALVE ( MJ - MJ ).
6.	12" 90° BEND ( MJ - MJ ) - VERTICAL.
7.	12" x 12" x 6" TEE ( MJ - MJ ) - VERTICAL.
8.	6" GATE VALVE ( MJ - MJ ) ( SEE PLANS - FOR LOCATION ).
9.	6" DIP (PE-PE) LENGTHS AS REQ'D.
10.	12" 90° BEND ( MJ - MJ ) - HORIZONTAL - MAY BE DELETED FOR STRAIGHT INSTALLATION.
11.	STANDARD HYDRANT PAINTED OSHA SAFETY BLUE.
12.	STANDARD VALVE BOX ASSEMBLY W/VALVE EXTENSION / STEM ( AS REQUIRED ) PER CMUD STANDARD DETAILS.
13.	REINFORCED CONCRETE VALVE PAD - 24" DIA.
14.	# 57 OR # 67 WASHED STONE AT FH BASE - 10 CUBIC FEET.
15.	# 57 OR # 67 WASHED STONE - TYPE II BEDDING FOR PIPE, & COMPLETE VERTICAL PIPE ENCASUREMENT TO 6" ABOVE BLIND FLANGE.
16.	12" D.I.P. - FLANGE x P.E.
17.	12" BLIND FLANGE.
18.	30" x 30" x 6" REINFORCED CONCRETE PAD - # 4 REBAR @ 6" O.C. EACH WAY. LOCATION MARKER - IMPRINT WITH "CMUD ACCESS".
19.	72" 3 - RAIL MARKER POST - BLUE TO SIGNIFY WATER ( RHINO OR APPROVED EQUAL ).
20.	AWG # 12 GAUGE COPPER TRACER WIRE ( THWN ) WITH BLUE INSULATION, TERMINATE WITH 24 INCH EXCESS WIRE ( COILED ) AT VALVE BOX ( TYP. )

- NOTES:**
- A. ALL PIPE, FITTINGS, ETC. SHALL BE RESTRAINED JOINT, OR MJ WITH WEDGE ACTION RESTRAINT.
  - B. ALL FLANGED HARDWARE ( BOLT / WASHER / NUT ) SHALL BE TYPE 304 STAINLESS STEEL WITH ANTI - SEIZE COMPOUND.
  - C. 90° BEND (10) MAY BE OMITTED FOR STRAIGHT INSTALLATION.
  - D. TEE (7) MAY BE ROTATED 90° FOR HORIZONTAL ALIGNMENT WITH FH (11) AT ROAD RIGHT-OF-WAY.
  - E. SEE CONSTRUCTION PLANS FOR EXACT LOCATIONS OF VALVES, CMUD ACCESS POINT, AND FIRE HYDRANT.
  - F. HYDRANT EXTENSIONS SHALL BE LIMITED TO 1 EACH PER FIRE HYDRANT.

NO SCALE  
 STANDARD NO. EE  
 VERSION NO. V1.0  
 VERSION DATE 8.27.2010

**12" BLOW-OFF ASSEMBLY (30" - 48" MAINS)**  
**MANUAL STAND PIPE WITH FIRE HYDRANT**

CHARLOTTE-MECKLENBURG UTILITIES  
 STANDARD DETAILS  
 WATER