

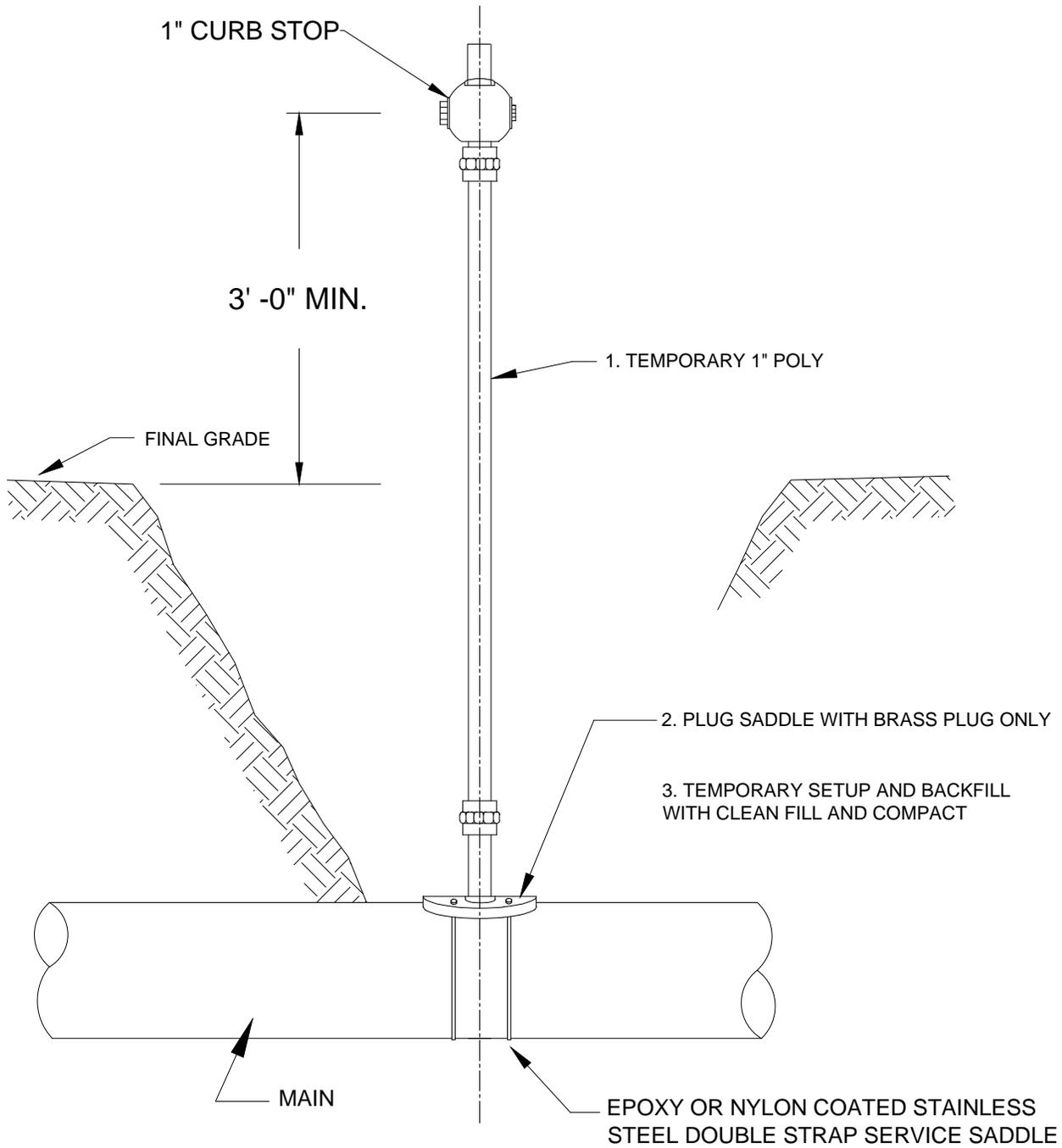
ISSUE DATE NOVEMBER 1st, 2011



SECTION 6

POTABLE WATER

Page List	
Page Number	Page Title
COVER	COVER
PW-01	TYPICAL BACTERIOLOGICAL SAMPLE POINT
PW-02	FIRE HYDRANT WITH TYPICAL GATE VALVE
PW-03	FIRE HYDRANT PROTECTION IN PAVED AREAS
PW-04	4 INCH AND ABOVE BACKFLOW ASSEMBLY FOR FIRE LINES
PW-05	3 INCH AND ABOVE METERS WITH BY-PASS ASSEMBLIES
PW-06	1 INCH WATER METER
PW-07	2 INCH WATER METER WITH BACKFLOW PREVENTER
PW-08	TYPICAL WATER SERVICE
PW-09	BUILDING AREA-BELOW GROUND WATER METER
PW-10	METER BANK DETAIL
PW-11	AUTOMATIC FLUSHING ASSEMBLY
PW-12	TEMPORARY BLOW OFF ASSEMBLY
PW-13	PERMANENT BLOW OFF ASSEMBLY
PW-14	AUTOMATIC AIR RELEASE VALVE



NOTE:

- 1: REMOVE RISER PIPE AND INSTALL BRASS PLUG AFTER FDEP CERTIFICATIONS.
- 2: USE TEFLON TAPE IN LIEU OF PIPE DOPE ON THREADED FITTINGS.

DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

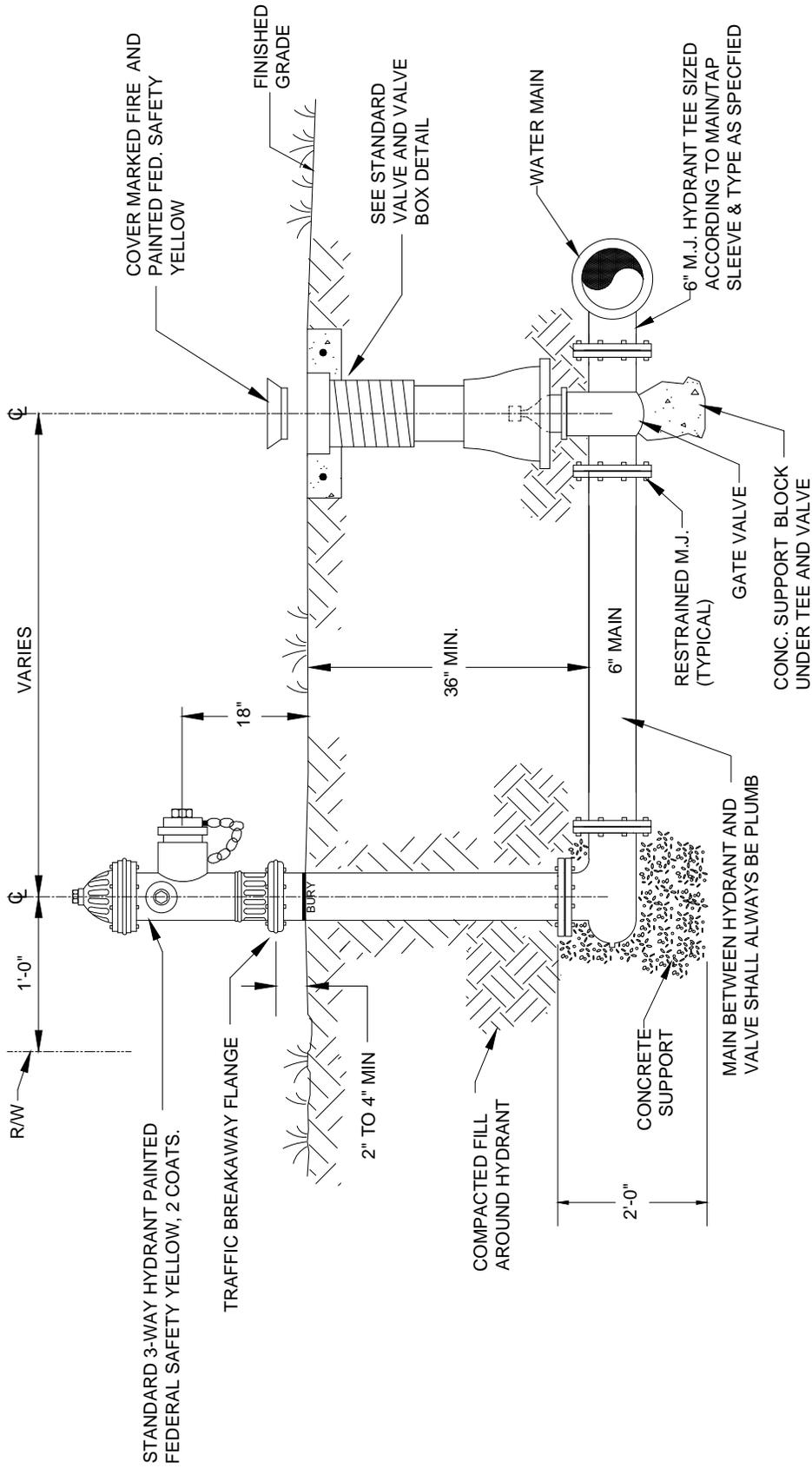
SAMPLE POINT

CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

PW-01

ID: PW-01-BACT.dwg



NOTE:
 1. BOLLARDS SHALL BE INSTALLED WHEN INSTALLATION CAN BE DAMAGED;
 SEE FIRE HYDRANT PROTECTION IN PAVED SERVICE AREA DETAIL

DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

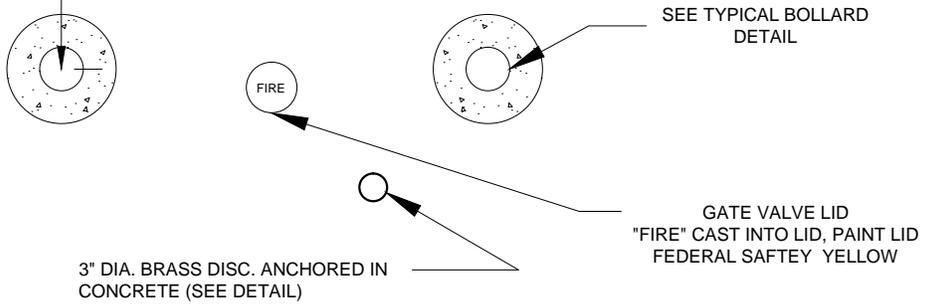
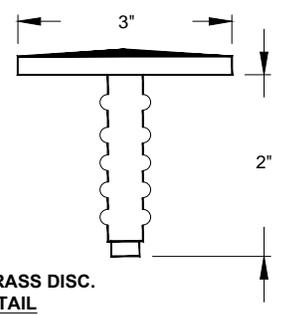
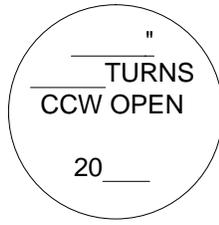
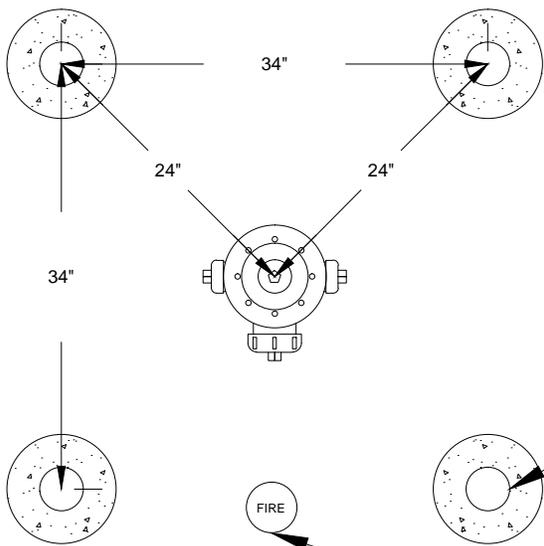
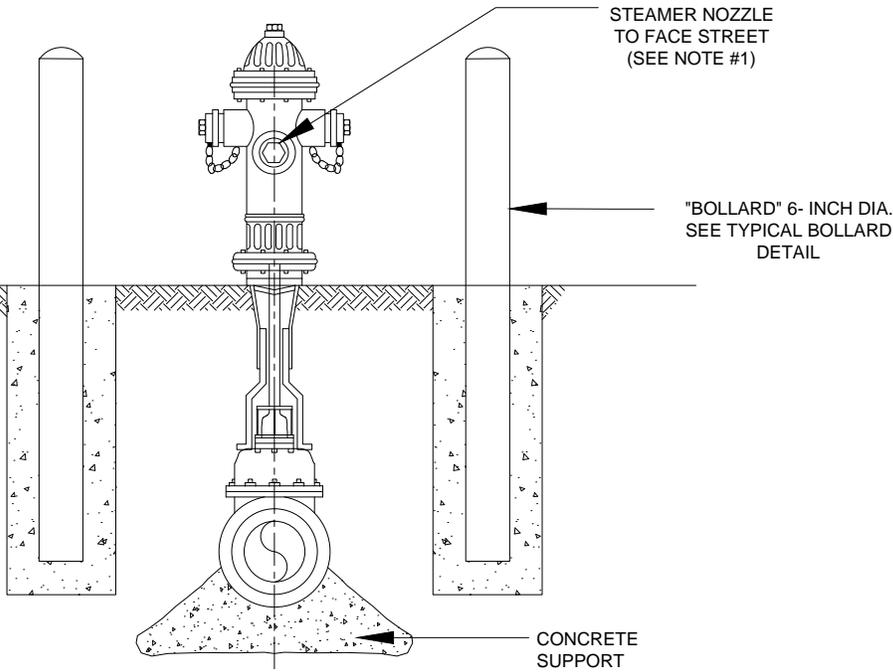
FIRE HYDRANT WITH TYPICAL GATE VALVE

CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL
 PURPOSES ONLY.
 NO MODIFICATIONS WITHOUT
 WRITTEN CCU APPROVAL.

PW-02

ID: PW-02-FH.dwg



BOLLARDS SHALL BE INSTALLED FOR FHA PROTECTION IN PAVED AREAS



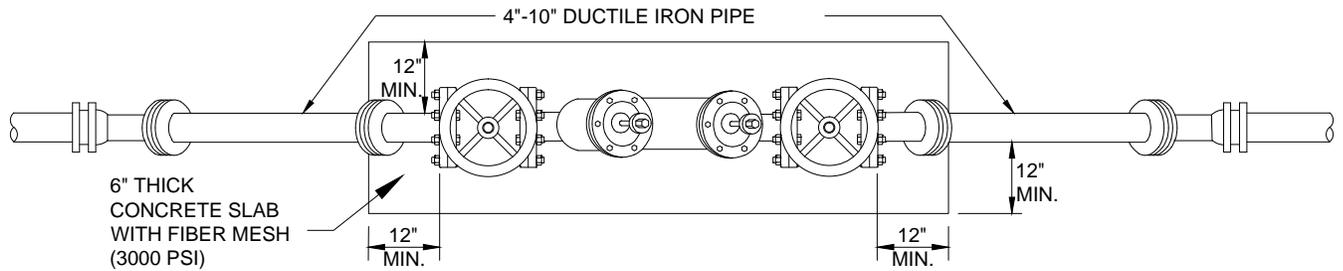
Z:\Auto_Cad_R14\DETAILS\2012_Details\06.POTABLE_WATER\PW-03-FHP.dwg

DATE: 11/01/2011
DRAWN BY: DEC
APPROVED BY: BRB

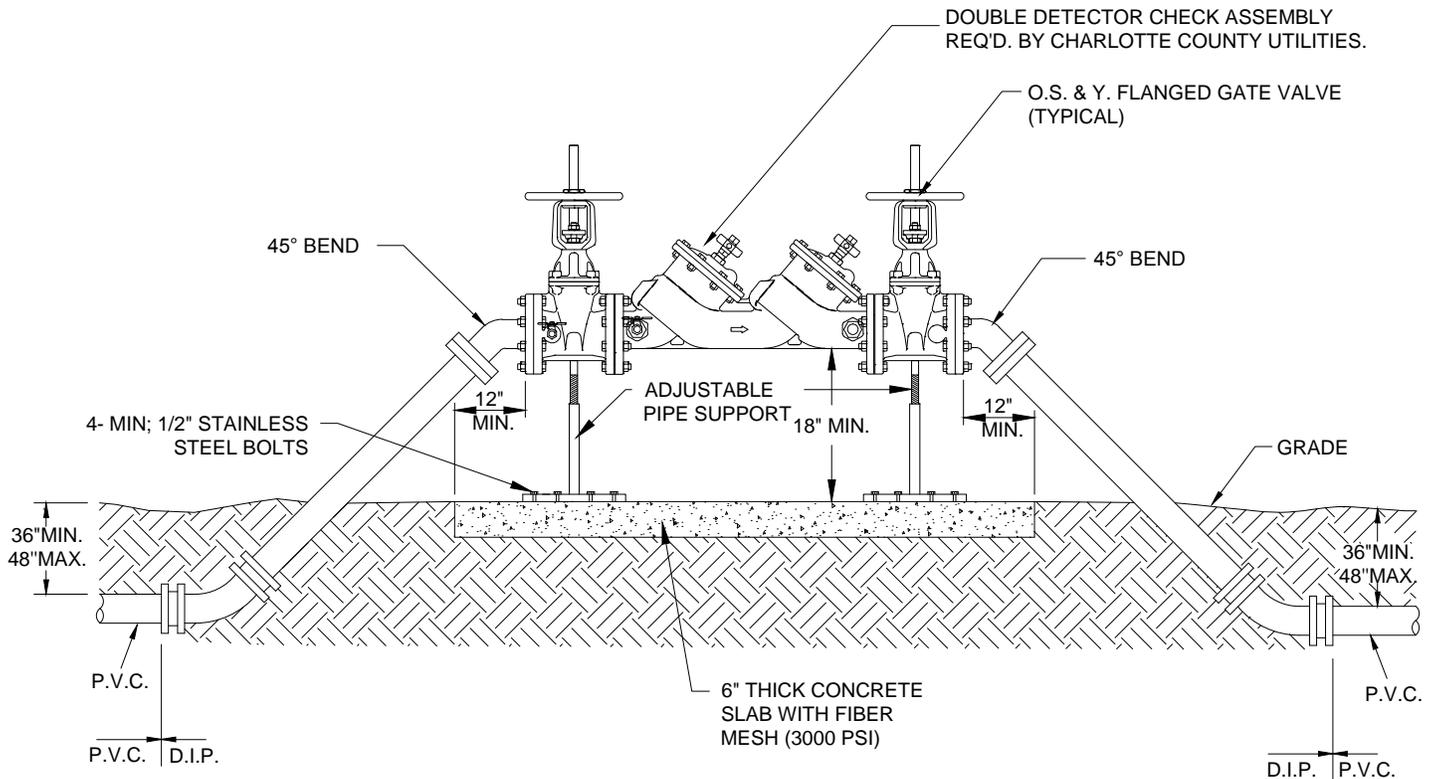
FIRE HYDRANT PROTECTION IN PAVED SERVICE AREAS

CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
PW-03
ID: PW-03-FHP.dwg



PLAN VIEW



ELEVATION "A-A"

NOTE:

1. DOUBLE DETECTOR CHECK ASSEMBLY SHALL MEET FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH UNIVERSITY OF SOUTHERN CALIFORNIA REQUIREMENTS AND SHALL BE APPROVED BY CCU.
2. BACKFLOW CAN HAVE BUILT IN FDC IF SHOWN ON THE ENGINEERING DRAWINGS.
3. ADJUSTABLE PIPE SUPPORTS TO BE ANCHORED TO CONCRETE SLAB.

DATE: 11/01/2011

DRAWN BY: DEC

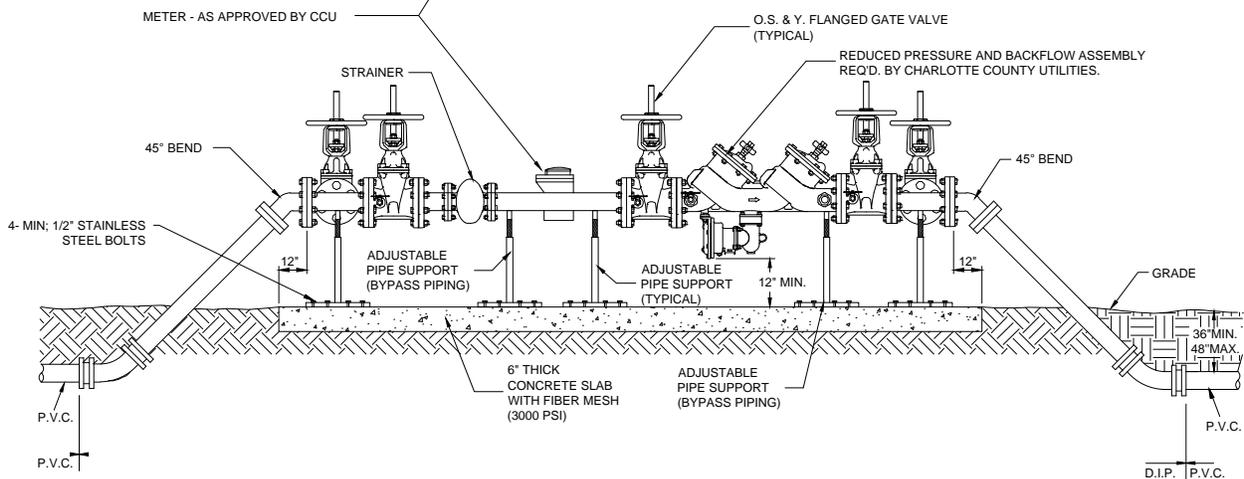
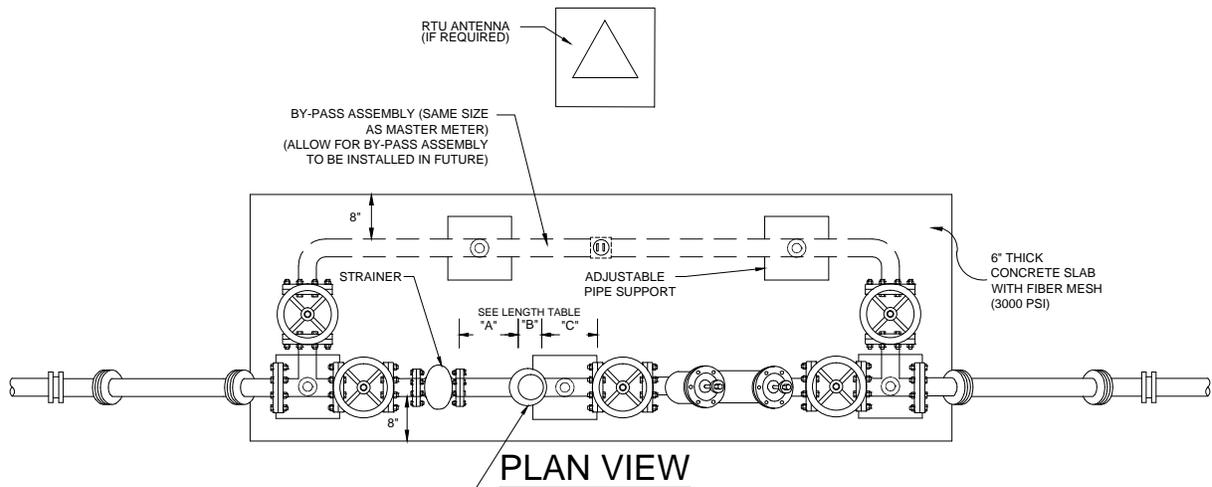
APPROVED BY: BRB

**4"-10" BACKFLOW PREVENTION
ASSEMBLY
FOR FIRE LINE SYSTEMS
CHARLOTTE COUNTY UTILITIES**

PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

PW-04

ID: PW-04-FLBF.dwg



PROFILE VIEW

NOTE:

1. REDUCED PRESSURE AND BACKFLOW ASSEMBLY SHALL MEET THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH UNIVERSITY OF SOUTHERN CALIFORNIA REQUIREMENTS AND SHALL BE APPROVED BY CCU.
2. BYPASS METER SHALL BE INSTALLED BY THE CONTRACTOR IF REQUIRED BY THE ENGINEERING DRAWINGS AND CCU.
3. ADJUSTABLE PIPE SUPPORTS TO BE ANCHORED TO CONCRETE SLAB.

LENGTH TABLE

LABEL	LENGTH
A	MINIMUM 7 PIPE DIAMETERS
B	LENGTH PER MANUFACTURER
C	MINIMUM 3 PIPE DIAMETERS

DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

3" & ABOVE WATER METERS WITH PROVISION FOR BY-PASS ASSEMBLY

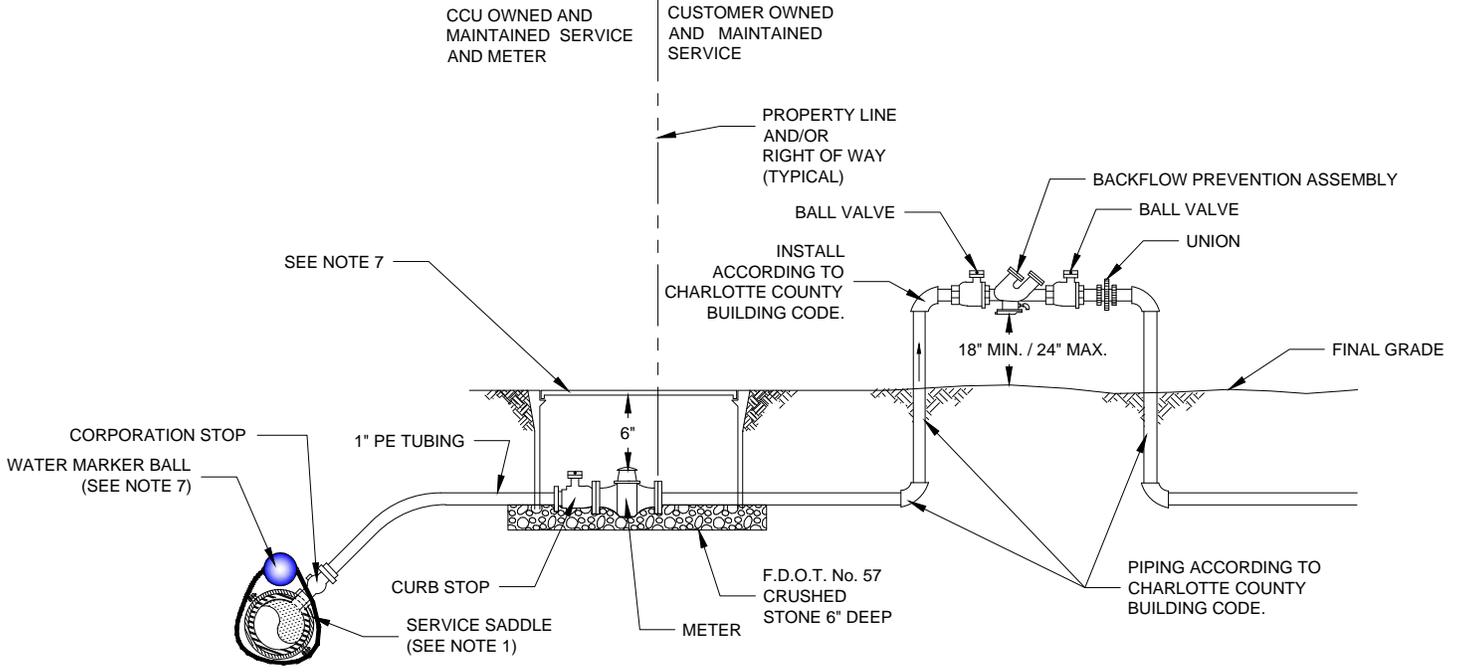
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

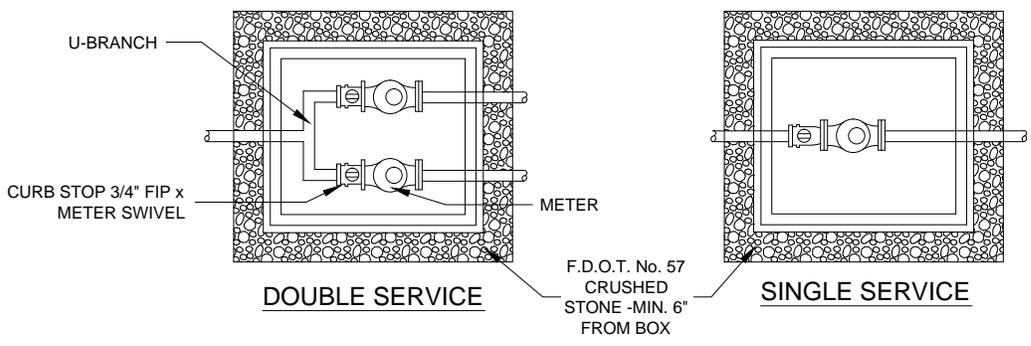
PW-05

ID: PW-05-3WMBP.dwg

Z:\Auto Cad R14\DETAILS\2012_Details\06.POTABLE_WATER\PW-06-1WM -5-8.dwg



PROFILE



PLAN

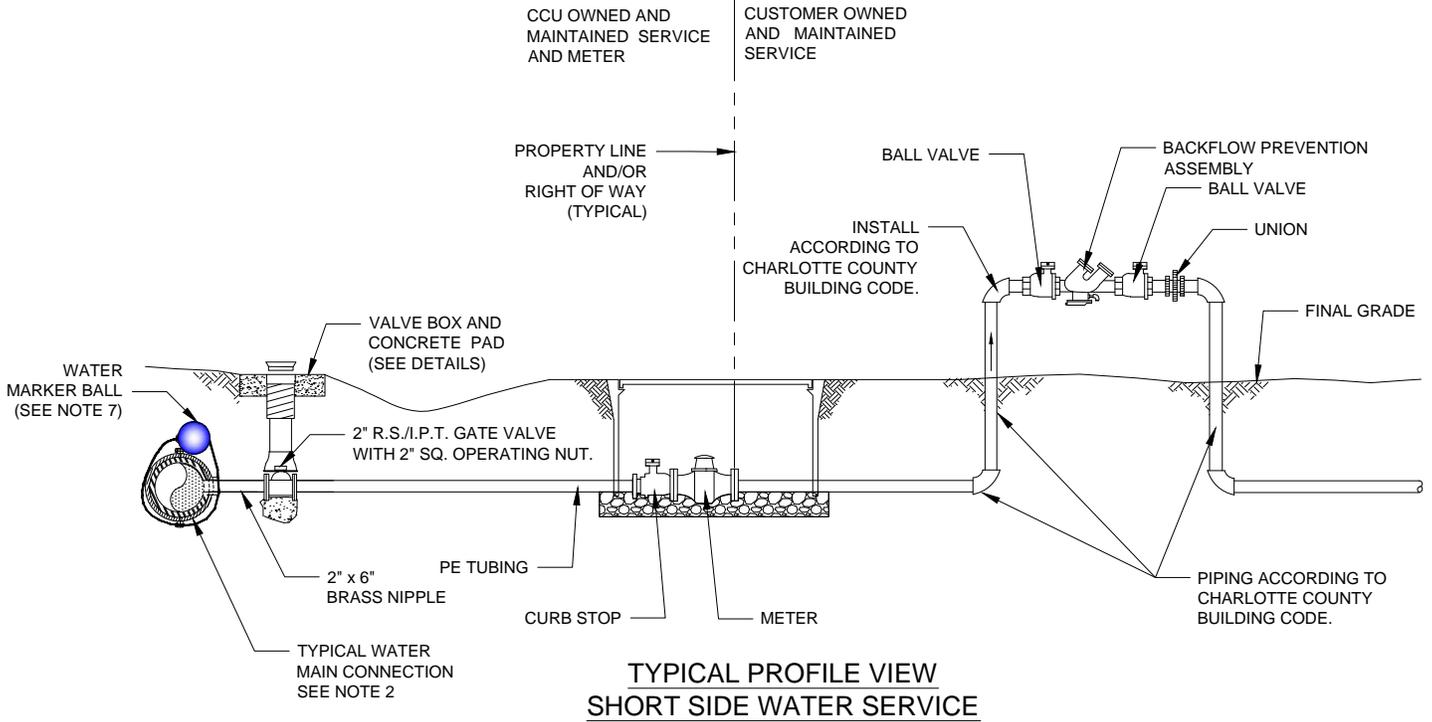
NOTES:

1. SERVICE SADDLES SHALL BE EPOXY OR NYLON COATED WITH IRON PIPE THREAD INLET WITH DOUBLE STAINLESS STEEL STRAPS.
2. SERVICE AND METER SHALL BE PLACED/LOCATED IN RIGHT-OF-WAY AT PROPERTY LINE AND/OR EASEMENT PROVIDED TO UTILITY BY CUSTOMER.
3. BACKFLOW SHALL BE REDUCED PRESSURE BACKFLOW PREVENTOR IN ACCORDANCE WITH AWWA M14 STANDARDS AND PLACED IMMEDIATELY DOWNSTREAM OF METER.
4. LOCATION OF METER BOX SHALL BE AT CCU DISCRETION.
5. DISTANCE FROM TOP OF METER TO BOTTOM OF LID SHALL BE 6" TO 8". DISTANCE SHALL BE DETERMINED WHEN NEW METER IS SET BY CCU.
6. LONG SERVICE UNDER PAVEMENT SHALL BE PE PIPING ENCASED IN SCHEDULE 40 PVC.
7. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPPS. MAXIMUM DEPTH 5 FEET.

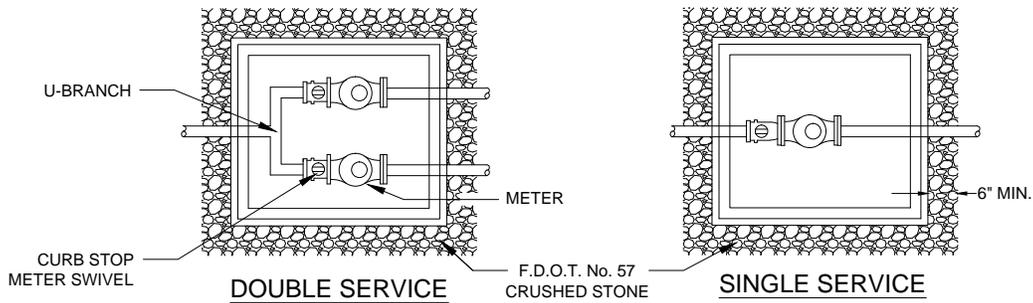
DATE: 11/01/2011
DRAWN BY: DEC
APPROVED BY: BRB

**5/8" - 1" WATER METER WITH
BACKFLOW PREVENTER
CHARLOTTE COUNTY UTILITIES**

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
PW-06
ID: PW-06-1WM -5-8.dwg



n.t.s.



n.t.s.

NOTES:

- SERVICE SADDLES SHALL BE EPOXY OR NYLON COATED WITH IRON PIPE THREAD INLET WITH DOUBLE STAINLESS STEEL STRAPS.
- SERVICE AND METER TO BE PLACED/LOCATED IN RIGHT-OF-WAY AT PROPERTY LINE AND/OR EASEMENT PROVIDED TO UTILITY BY CUSTOMER.
- BACKFLOW SHALL BE REDUCED PRESSURE OR DUAL CHECK BACKFLOW PREVENTOR IN ACCORDANCE WITH AWWA M14 STANDARDS AND PLACED IMMEDIATELY DOWNSTREAM OF METER.
- LONG SERVICE UNDER PAVEMENT SHALL BE PE PIPING INCASED IN SCHEDULE 40 PVC.
- DISTANCE FROM TOP OF METER TO BOTTOM OF LID SHALL BE 6" TO 8". DISTANCE SHALL BE DETERMINED WHEN NEW METER IS SET BY CCU.
- LOCATION OF METER BOX SHALL BE IN ACCORDANCE WITH CCU.
- FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011

DRAWN BY: DEC

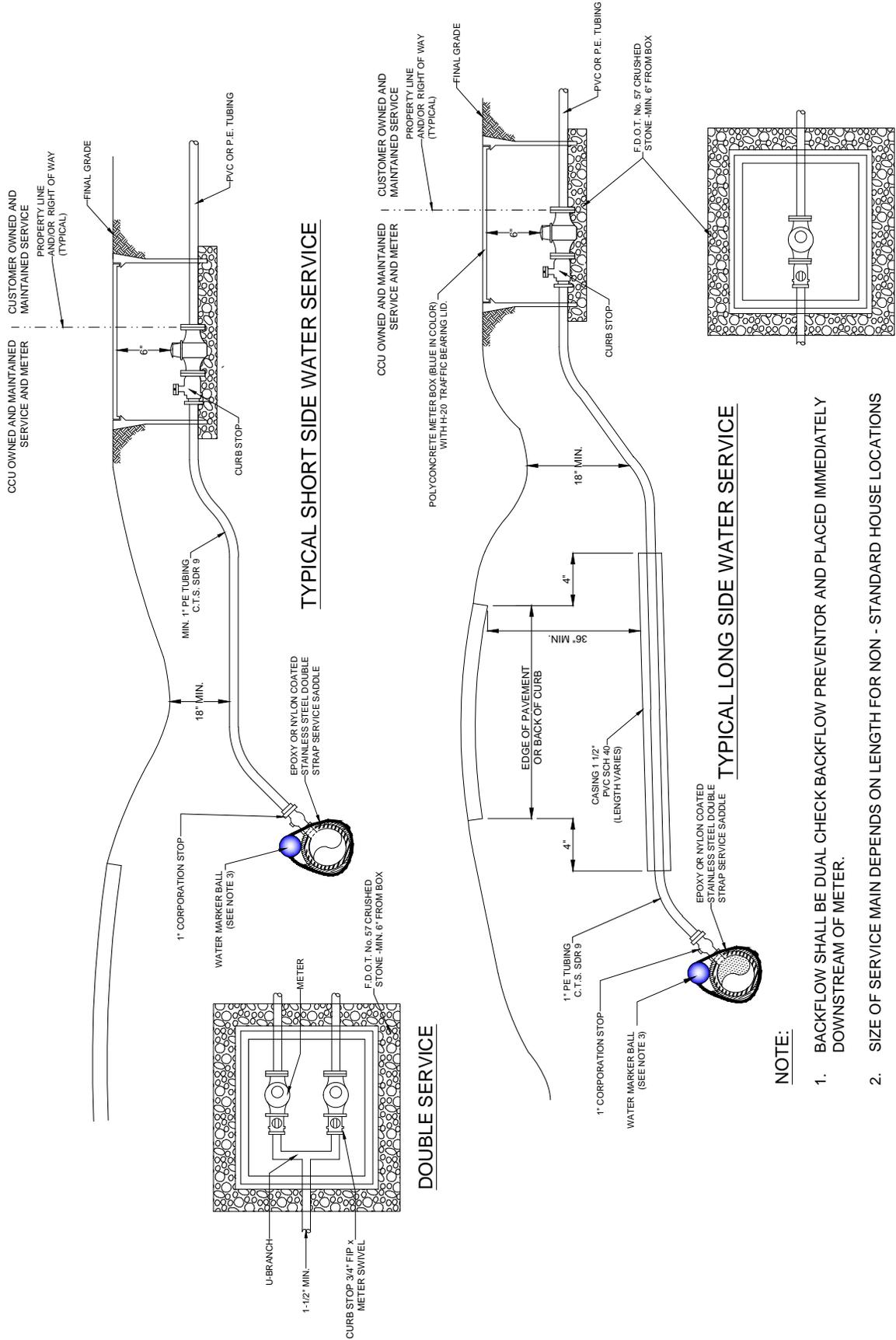
APPROVED BY: BRB

**1 1/2" - 2" WATER METER WITH
BACKFLOW PREVENTER
CHARLOTTE COUNTY UTILITIES**

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

PW-07

ID: PW-07-2WM.dwg



DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

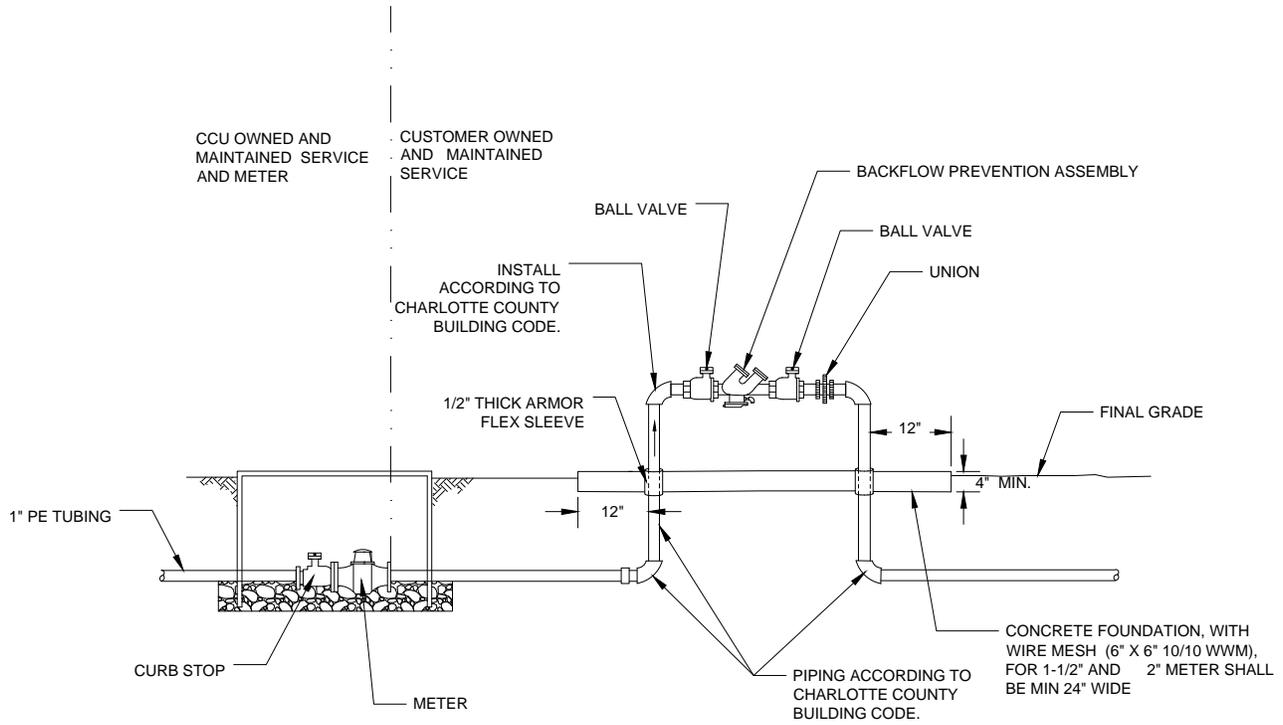
TYPICAL 5/8" - 1" WATER SERVICE

CHARLOTTE COUNTY UTILITIES

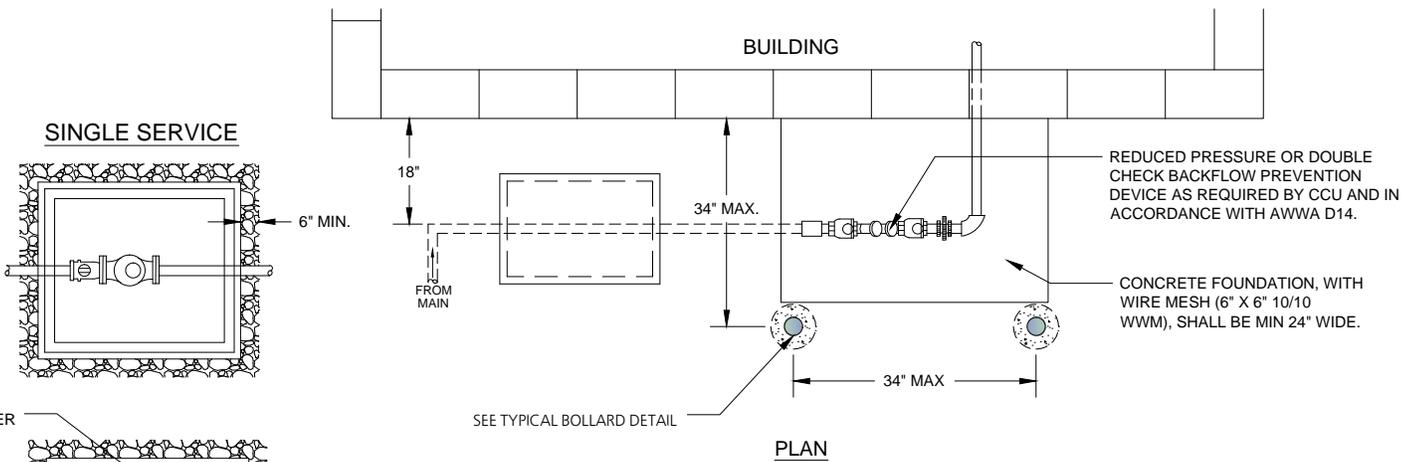
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

PW-08

ID: PW-08-TWS.dwg



PROFILE



PLAN

NOTES:

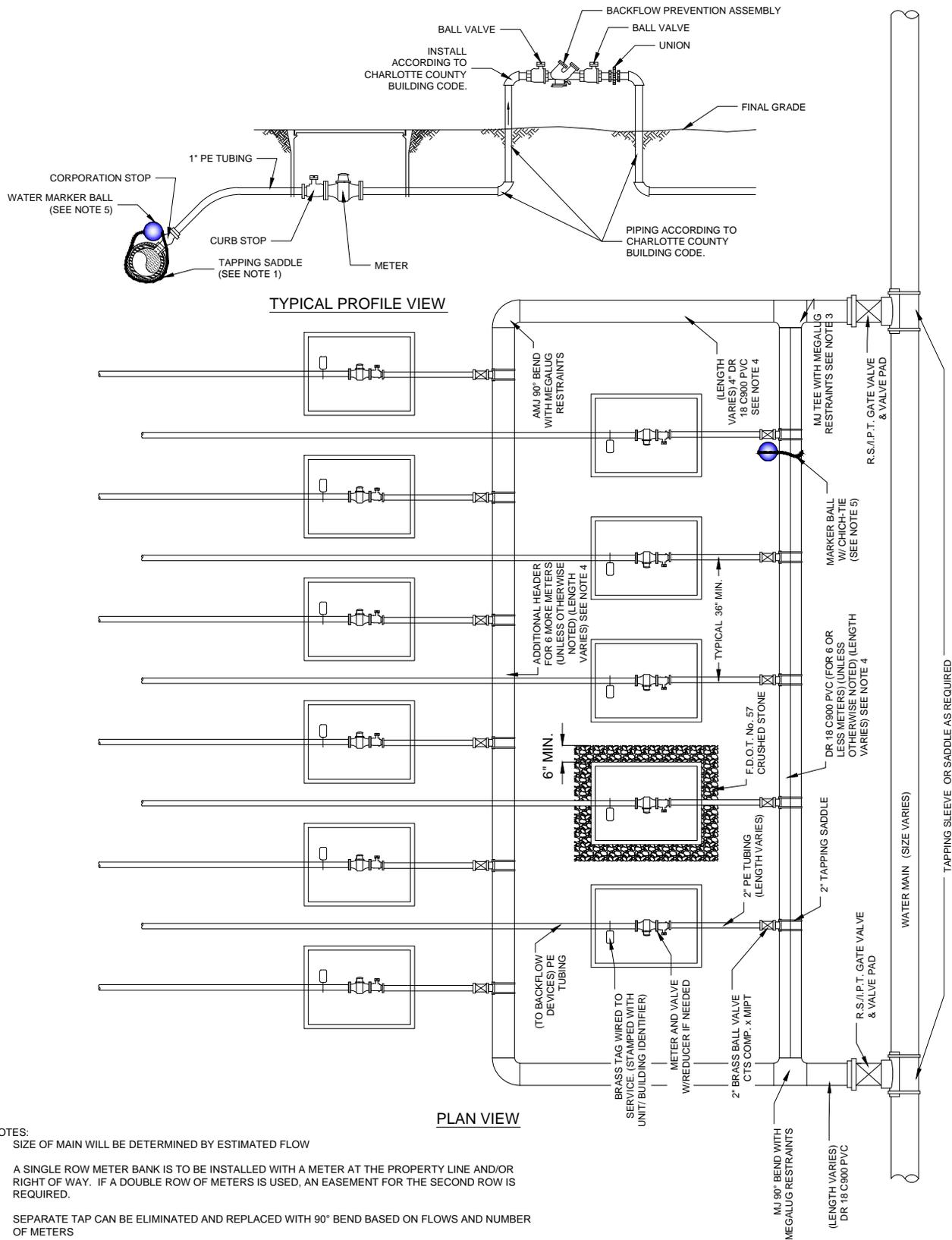
1. SERVICE AND METER TO BE PLACED/LOCATED IN RIGHT-OF-WAY AT PROPERTY LINE AND/OR EASEMENT PROVIDED TO UTILITY BY CUSTOMER.

Z:\Auto Cad R14\DETAILS\2012 Details\06.POTABLE WATER\PW-09-BGWM.dwg

DATE: 11/01/2011
DRAWN BY: DEC
APPROVED BY: BRB

**BUILDING AREA BELOW GROUND
WATER METER INSTALLATION
CHARLOTTE COUNTY UTILITIES**

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
PW-09
ID: PW-09-BGWM.dwg



- NOTES:
1. SIZE OF MAIN WILL BE DETERMINED BY ESTIMATED FLOW
 2. A SINGLE ROW METER BANK IS TO BE INSTALLED WITH A METER AT THE PROPERTY LINE AND/OR RIGHT OF WAY. IF A DOUBLE ROW OF METERS IS USED, AN EASEMENT FOR THE SECOND ROW IS REQUIRED.
 3. SEPARATE TAP CAN BE ELIMINATED AND REPLACED WITH 90° BEND BASED ON FLOWS AND NUMBER OF METERS
 4. 4" PVC SHOWN AS TYPICAL PIPING DIAMETER. PIPING TO BE SIZED BASED ON THE NUMBER OF METERS AND REQUIRED FLOWS.
 5. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011

DRAWN BY: DEC

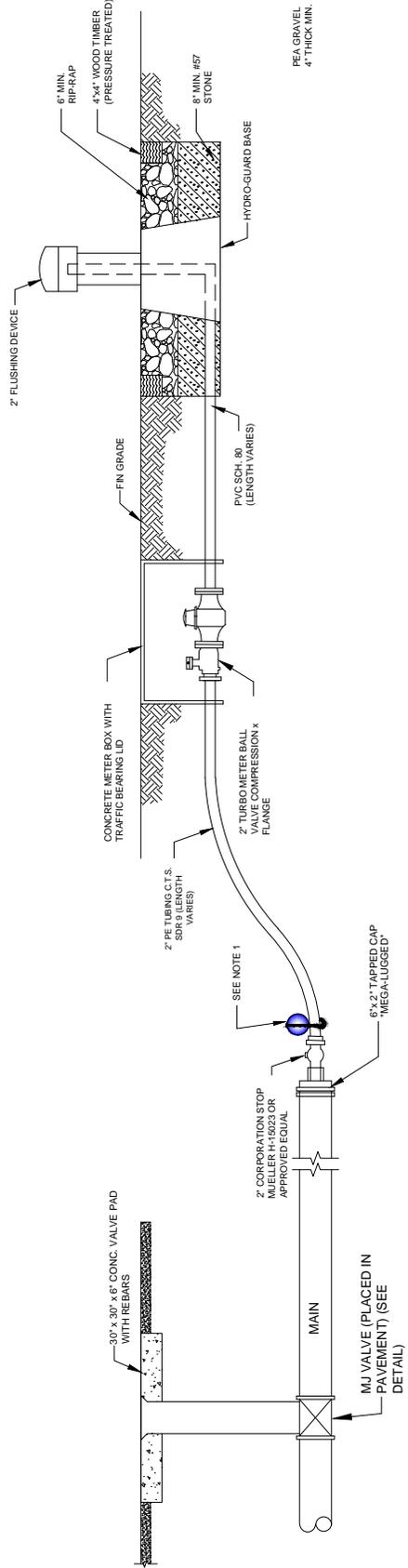
APPROVED BY: BRB

METER BANK DETAIL FOR 5/8" - 1" COMMERCIAL WATER METERS CHARLOTTE COUNTY UTILITIES

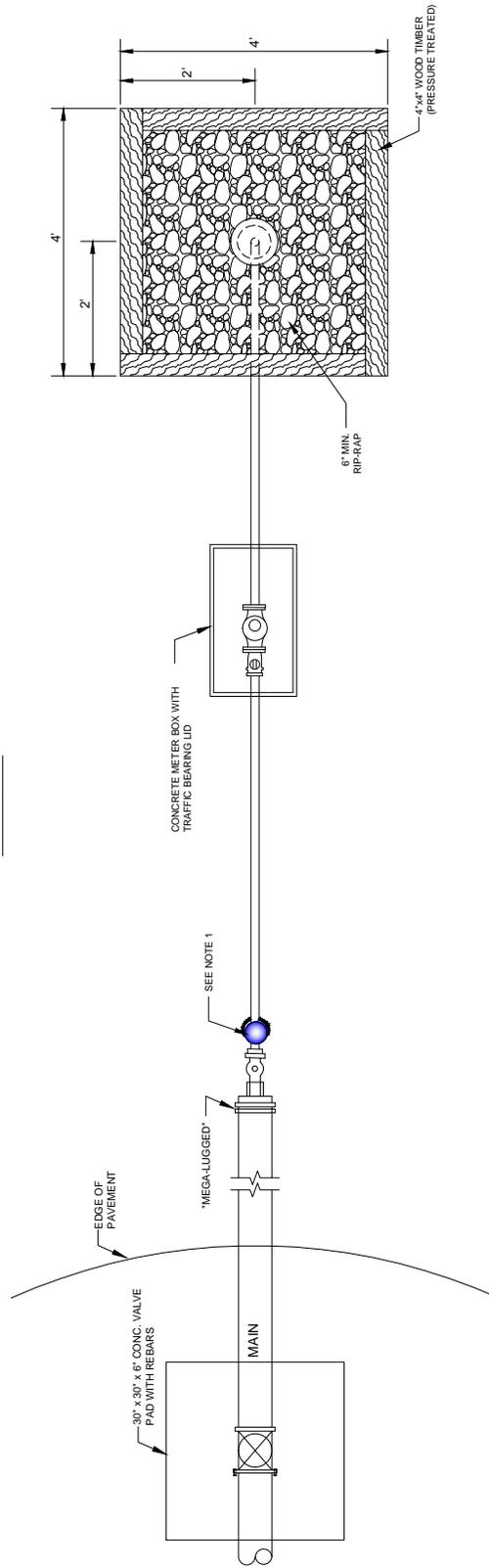
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

PW-10

ID: PW-10-WMB.dwg



PROFILE



PLAN

- NOTES:
1. A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND ATTACHED TO PIPE AT VALVE CORPORATION STOP LOCATION WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

AUTOMATIC FLUSHING ASSEMBLY

CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

PW-11

ID: PW-11-AFA.dwg

TEMPORARY:
2" PVC - SCH. 40 TO BE
REMOVED AFTER
BACTERIOLOGICAL
SAMPLES PASS

3'-0"
MIN.

POLYMER CONCRETE
METER BOX WITH
TRAFFIC BEARING LID

FINAL
GRADE

WRAP FITTING WITH
VISQUEEN BEFORE
INSTALLING SUPPORT
OR THRUST BLOCK.

(MAIN SIZE) +
2" CAP WITH
"MEG-A-LUG"

CURB STOP

F.D.O.T. No. 57
CRUSHED STONE
6" DEEP

2" HDPE (SDR-11)

2" HDPE (SDR11)

MAIN

THRUST BLOCK
(3 CU. FT. CONC.)

RESTRAIN MAIN IN
ACCORDANCE WITH
RESTRAINT TABLE
FOR DEAD END MAINS

DATE: 11/01/2011

DRAWN BY: DJS

APPROVED BY: BRB

TEMPORARY MAIN END BLOW OFF ASSEMBLY

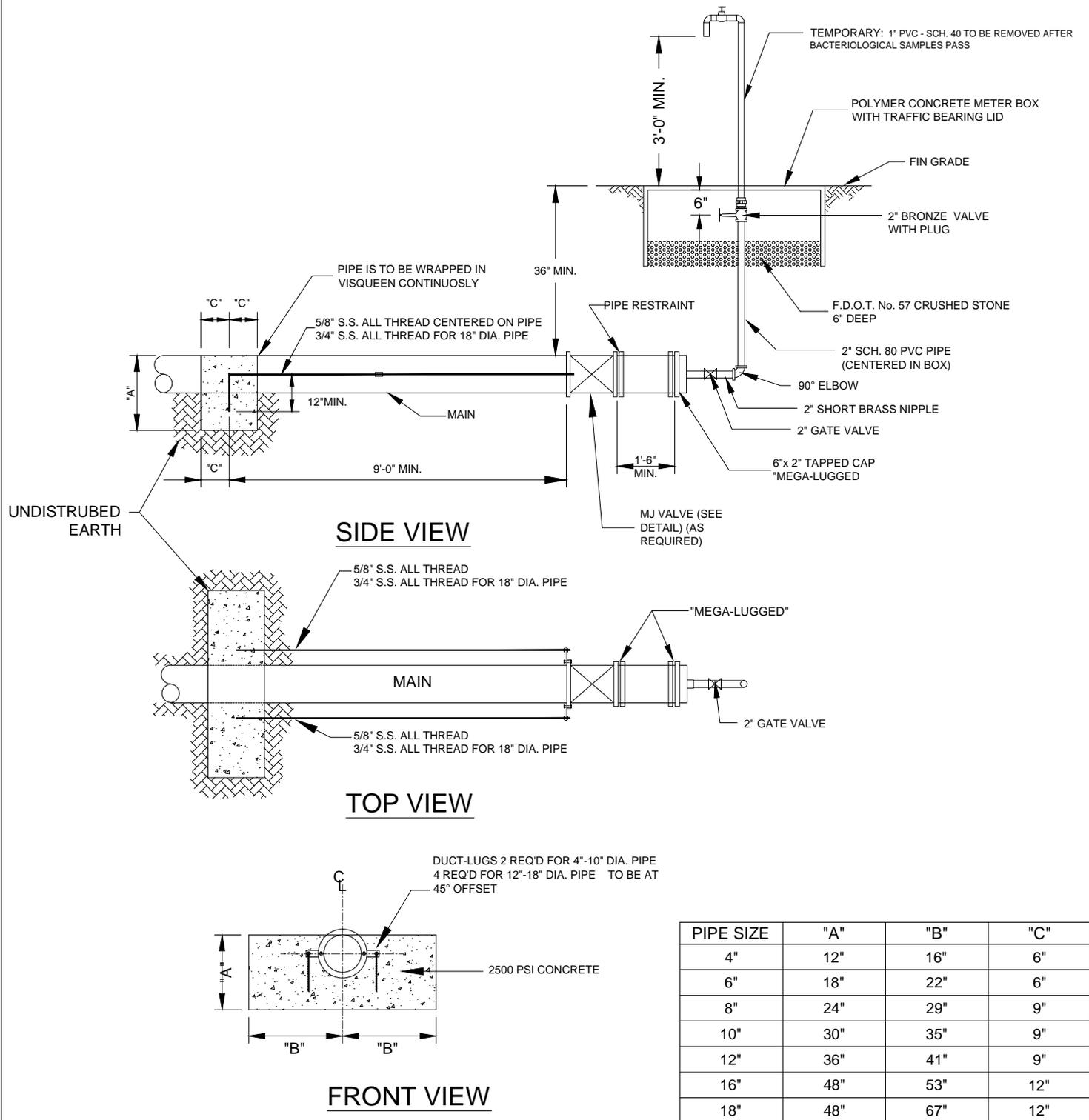
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL
PURPOSES ONLY.
NO MODIFICATIONS WITHOUT
WRITTEN CCU APPROVAL.

PW-12

ID: PW-12-TBO.dwg

Z:\Auto Cad R14\DETAILS\2012 Details\06.POTABLE WATER\PW-13-PBO.dwg



DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

PERMANENT END OF MAIN BLOW-OFF ASSEMBLY (WATER)

CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

PW-13

ID: PW-13-PBO.dwg

